

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061621\
 Data File : VD069462.D
 Acq On : 16 Jun 2021 13:00
 Operator : VA/SY
 Sample : M2709-02
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 17 02:47:54 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)

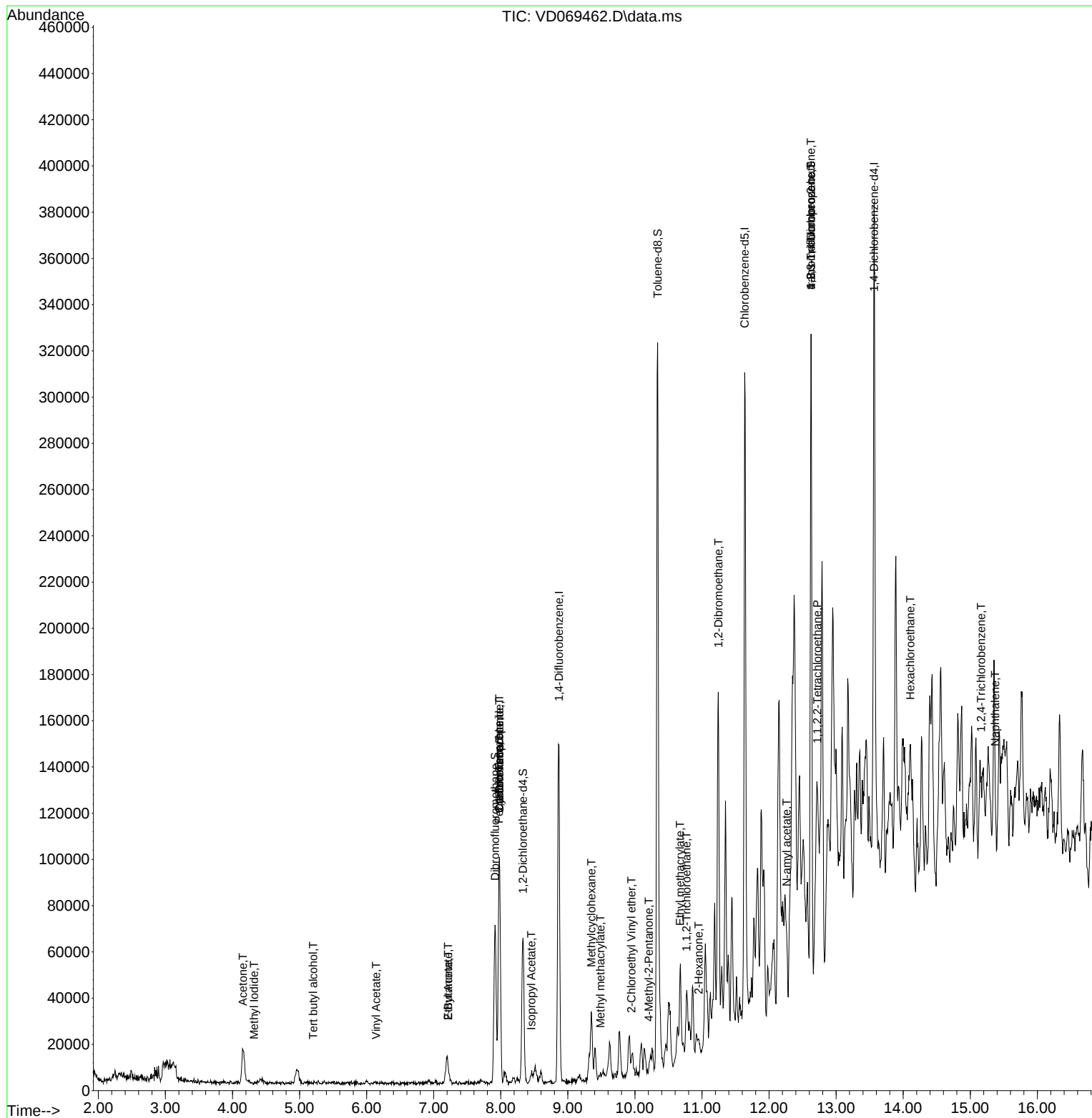
Internal Standards						
1) Pentafluorobenzene	7.973	168	72981	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	130609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	168752	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	83927	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	53173	64.582	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 129.160%			
35) Dibromofluoromethane	7.914	113	50008	51.119	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.240%			
50) Toluene-d8	10.337	98	188413	52.659	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 105.320%			
62) 4-Bromofluorobenzene	12.625	95	81743	71.202	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 142.400%			
Target Compounds			Qvalue			
5) Bromomethane	2.785	94	796	Below Cal #	72	
10) Methyl Iodide	4.320	142	63	3.402 ug/l #	39	
11) Tert butyl alcohol	5.202	59	305	7.125 ug/l #	73	
16) Acetone	4.155	43	27135	199.109 ug/l	93	
18) Methyl Acetate	4.714	43	94	Below Cal #	46	
20) Methylene Chloride	4.967	84	4927	Below Cal #	68	
23) Vinyl Acetate	6.143	43	64	17.628 ug/l #	67	
25) 2-Butanone	7.214	43	8106	47.700 ug/l	90	
31) Cyclohexane	7.979	56	2658	2.376 ug/l #	69	
36) 1,1-Dichloropropene	7.979	75	5616	4.129 ug/l #	41	
37) Ethyl Acetate	7.214	43	8106	17.815 ug/l #	67	
38) Carbon Tetrachloride	7.979	117	8182	5.554 ug/l #	20	
39) Methylcyclohexane	9.349	83	8107	5.926 ug/l #	64	
43) Isopropyl Acetate	8.455	43	1107	1.287 ug/l #	46	
48) Methyl methacrylate	9.484	41	427	1.091 ug/l #	56	
51) 4-Methyl-2-Pentanone	10.208	43	664	1.513 ug/l #	32	
55) 1,1,2-Trichloroethane	10.767	97	9661	12.624 ug/l #	20	
56) Ethyl methacrylate	10.673	69	3921	7.057 ug/l #	1	
58) 2-Chloroethyl Vinyl ether	9.949	63	63	12.077 ug/l #	44	
59) 2-Hexanone	10.949	43	1301	4.440 ug/l #	27	
61) 1,2-Dibromoethane	11.243	107	1195	1.626 ug/l #	1	
74) N-amyl acetate	12.261	43	4119	3.891 ug/l #	37	
75) 1,1,2,2-Tetrachloroethane	12.720	83	11098	9.796 ug/l #	26	
76) 1,2,3-Trichloropropane	12.625	75	37271	43.803 ug/l #	1	
81) trans-1,4-Dichloro-2-b...	12.625	75	37271	116.855 ug/l #	21	
90) Hexachloroethane	14.108	117	1421	1.350 ug/l #	14	
93) 1,2,4-Trichlorobenzene	15.161	180	1736	1.154 ug/l #	1	
95) Naphthalene	15.372	128	339	3.679 ug/l #	1	

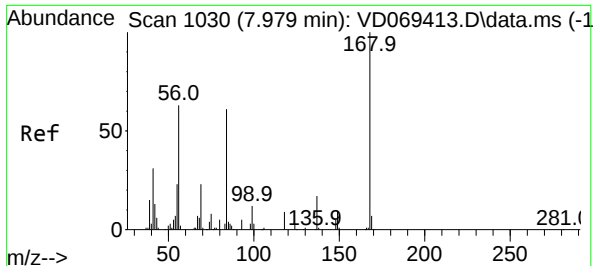
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jun 11 12:50:13 2021
Response via : Initial Calibration

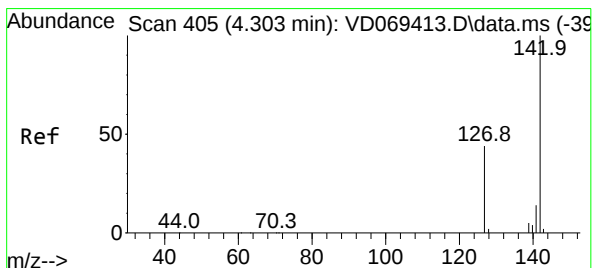
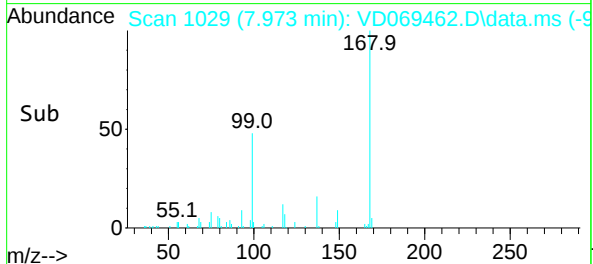
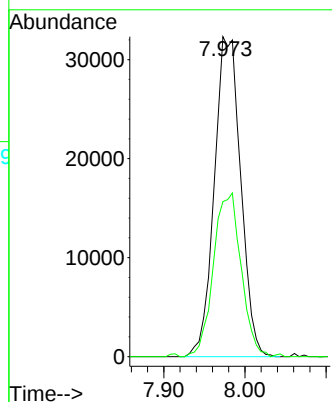
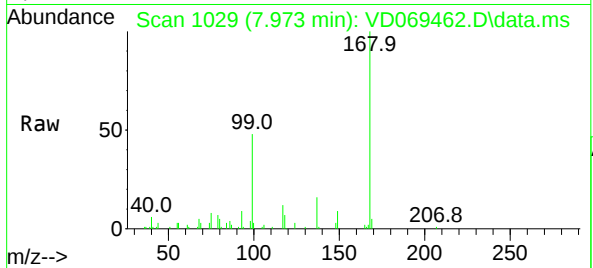




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

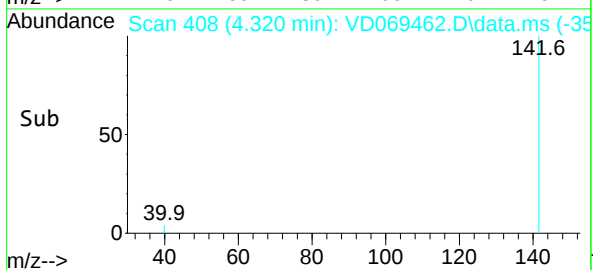
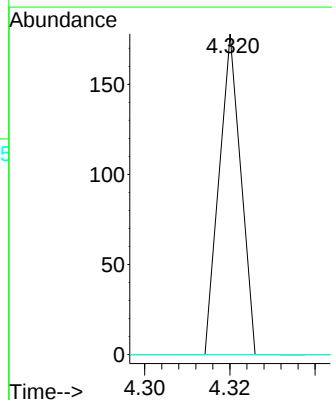
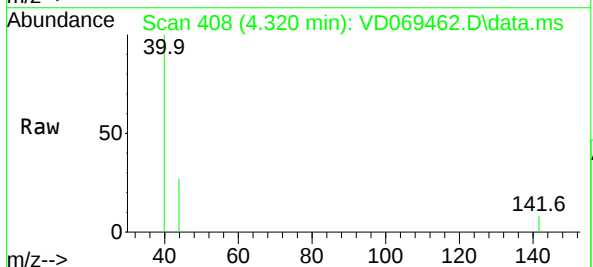
Instrument :
MSVOA_D
ClientSampled :

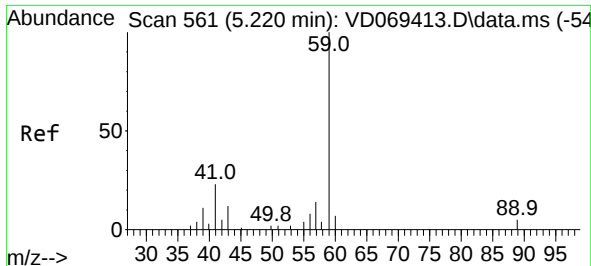
Tgt Ion:168 Resp: 72981
Ion Ratio Lower Upper
168 100
99 48.5 46.2 69.2



#10
Methyl Iodide
Concen: 3.402 ug/l
RT: 4.320 min Scan# 408
Delta R.T. 0.017 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion:142 Resp: 63
Ion Ratio Lower Upper
142 100
127 0.0 36.2 54.2#
141 0.0 12.2 18.2#

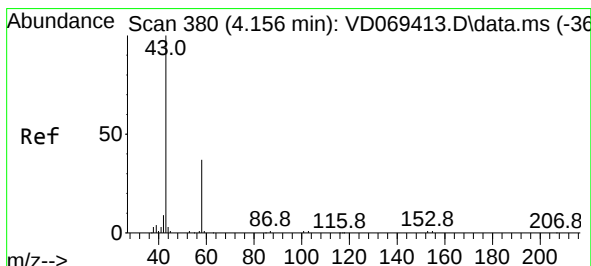
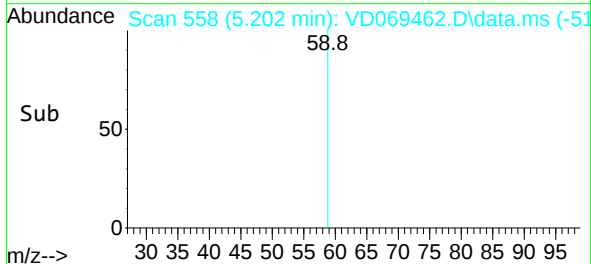
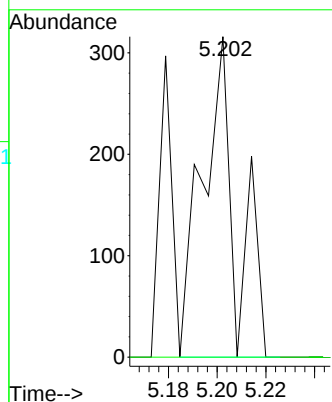
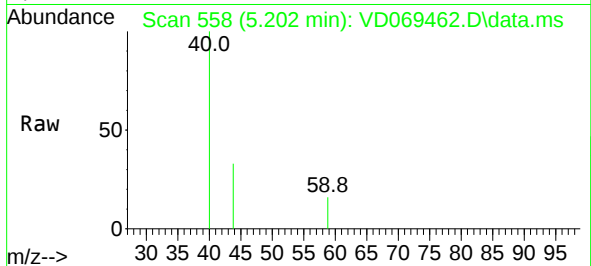




#11
Tert butyl alcohol
Concen: 7.125 ug/l
RT: 5.202 min Scan# 558
Delta R.T. -0.018 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

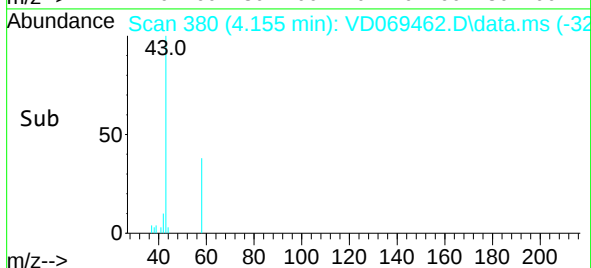
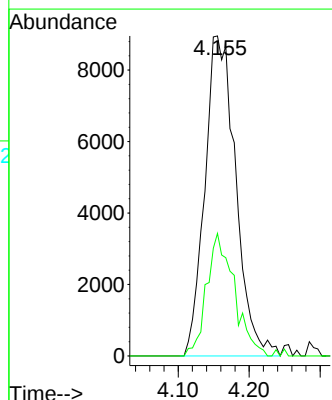
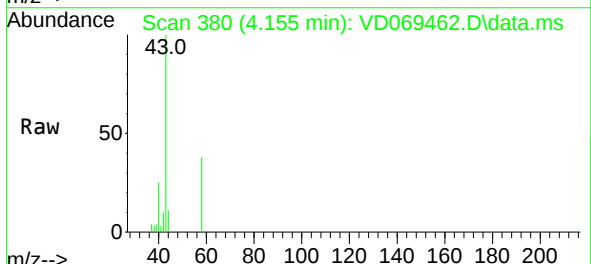
Instrument :
MSVOA_D
ClientSampled :

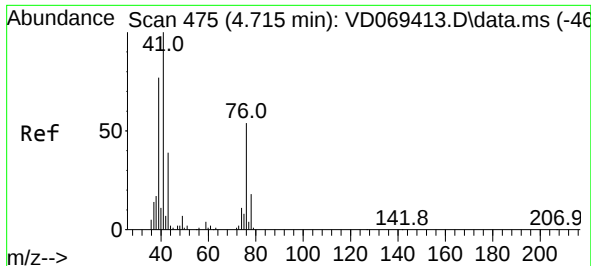
Tgt Ion: 59 Resp: 305
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: 199.109 ug/l
RT: 4.155 min Scan# 380
Delta R.T. -0.001 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 43 Resp: 27135
Ion Ratio Lower Upper
43 100
58 38.3 27.5 41.3

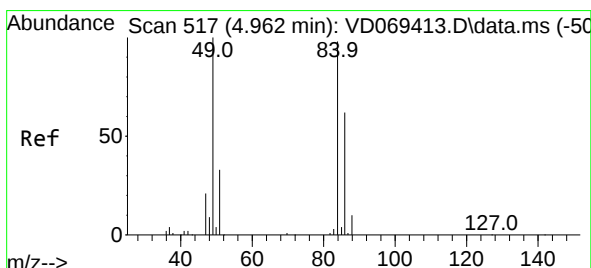
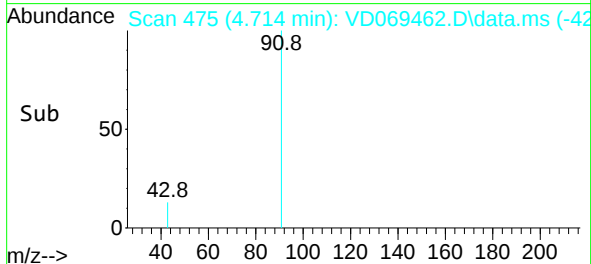
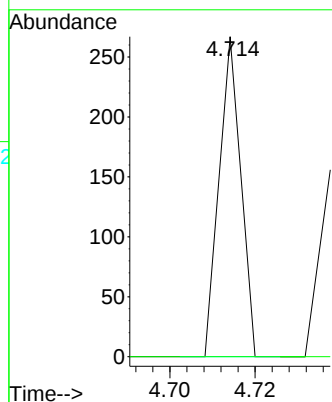
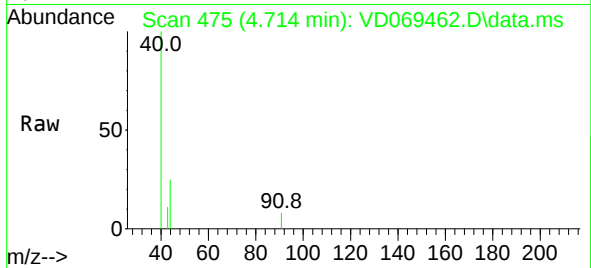




#18
Methyl Acetate
Concen: Below Cal
RT: 4.714 min Scan# 475
Delta R.T. -0.001 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

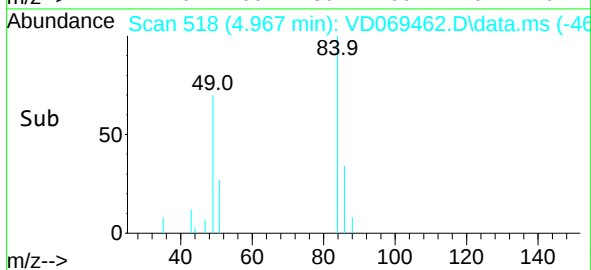
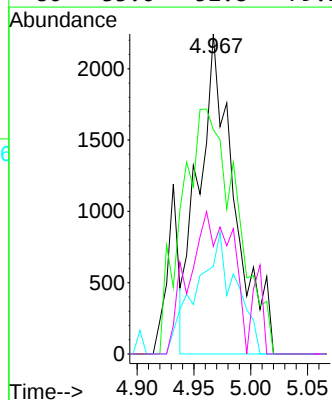
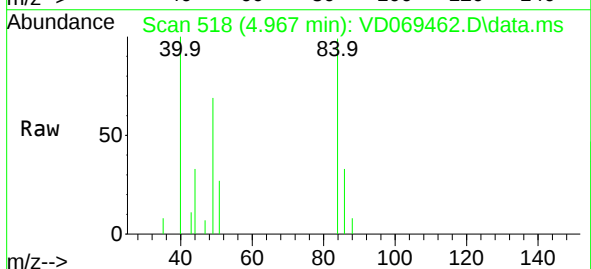
Instrument :
MSVOA_D
ClientSampled :

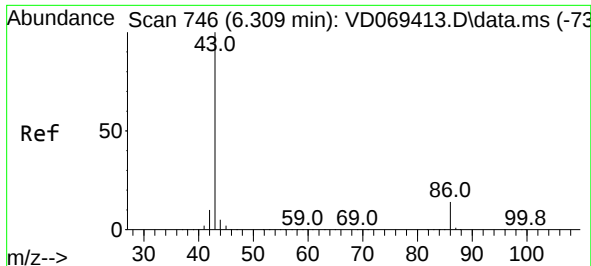
Tgt Ion: 43 Resp: 94
Ion Ratio Lower Upper
43 100
74 0.0 22.8 34.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.967 min Scan# 518
Delta R.T. 0.005 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 84 Resp: 4927
Ion Ratio Lower Upper
84 100
49 70.1 83.7 125.5#
51 27.4 26.4 39.6
86 33.6 52.8 79.2#

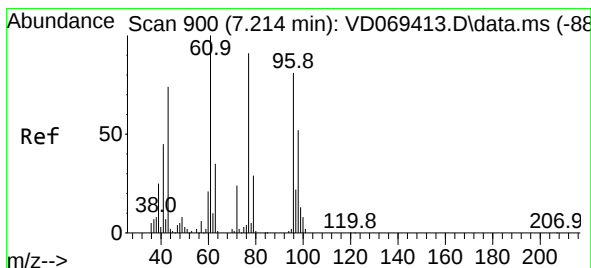
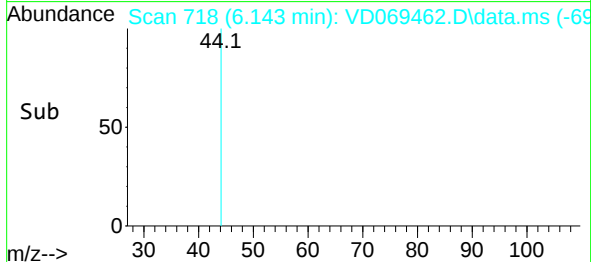
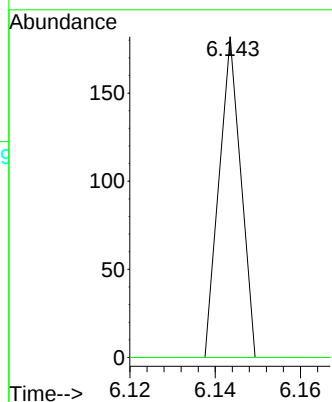
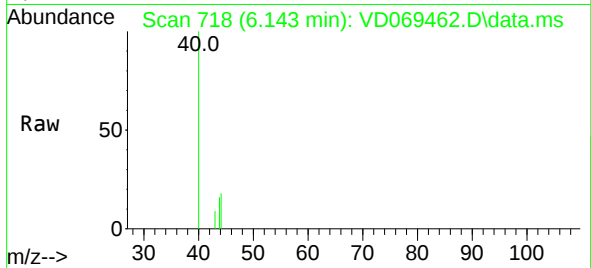




#23
 Vinyl Acetate
 Concen: 17.628 ug/l
 RT: 6.143 min Scan# 718
 Delta R.T. -0.166 min
 Lab File: VD069462.D
 Acq: 16 Jun 2021 13:00

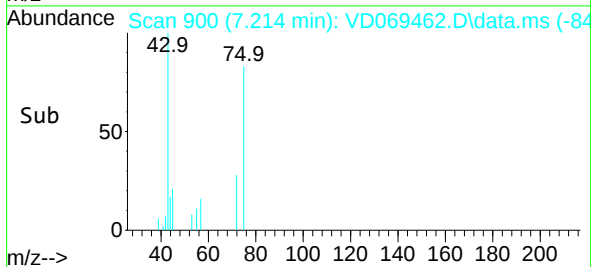
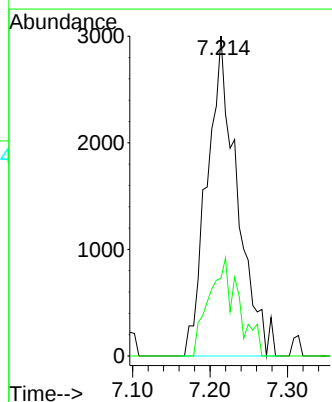
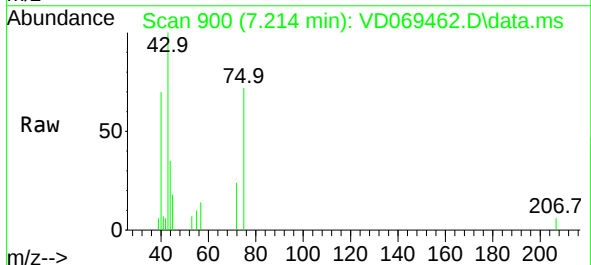
Instrument :
 MSVOA_D
 ClientSampleId :

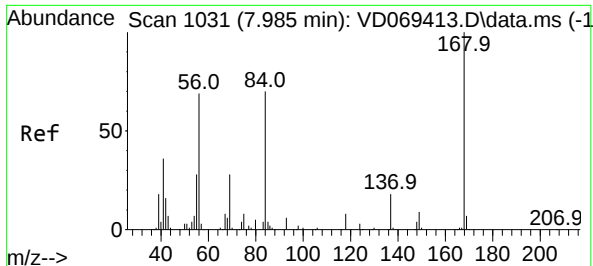
Tgt Ion: 43 Resp: 64
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.5 15.7#



#25
 2-Butanone
 Concen: 47.700 ug/l
 RT: 7.214 min Scan# 900
 Delta R.T. -0.000 min
 Lab File: VD069462.D
 Acq: 16 Jun 2021 13:00

Tgt Ion: 43 Resp: 8106
 Ion Ratio Lower Upper
 43 100
 72 24.3 23.9 35.9

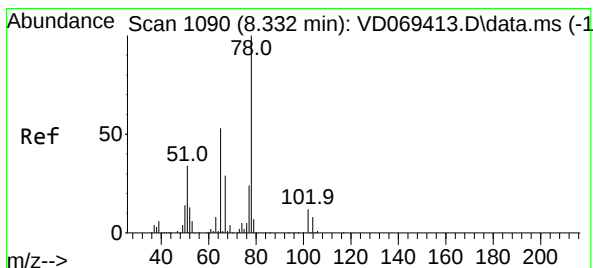
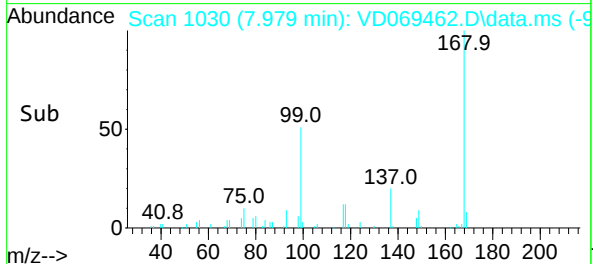
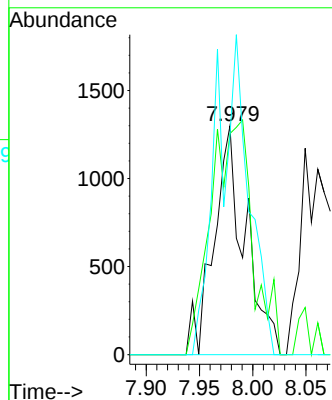
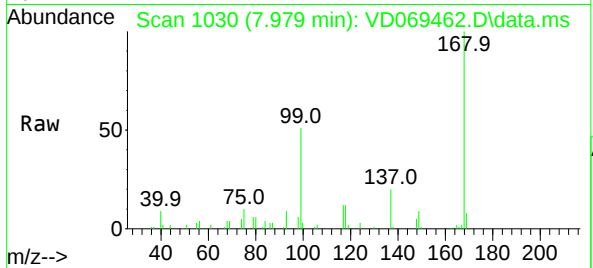




#31
Cyclohexane
Concen: 2.376 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

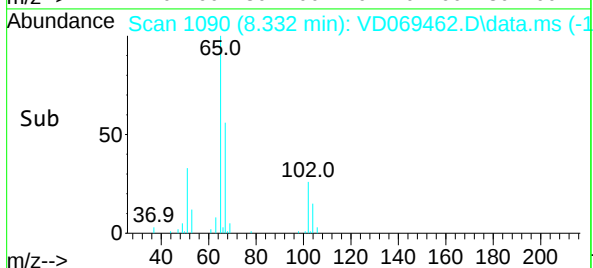
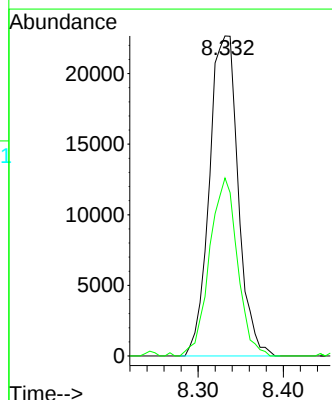
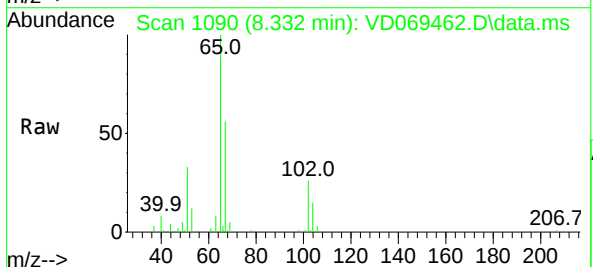
Instrument :
MSVOA_D
ClientSampleId :

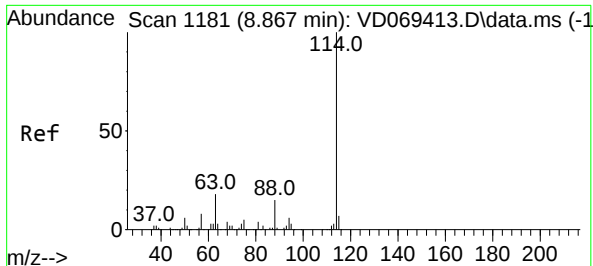
Tgt Ion: 56 Resp: 2658
Ion Ratio Lower Upper
56 100
69 96.6 29.0 43.4#
84 95.7 81.1 121.7



#33
1,2-Dichloroethane-d4
Concen: 64.582 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 65 Resp: 53173
Ion Ratio Lower Upper
65 100
67 54.0 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.867 min Scan# 1181

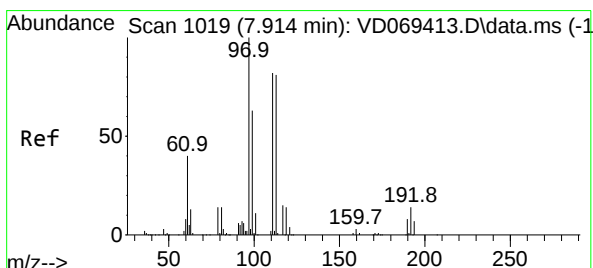
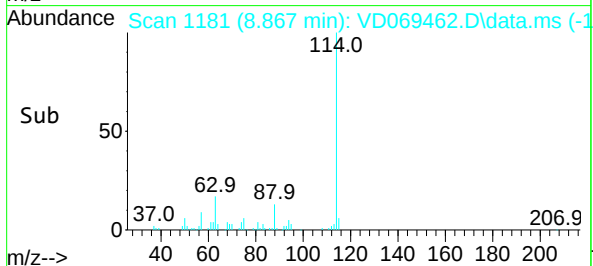
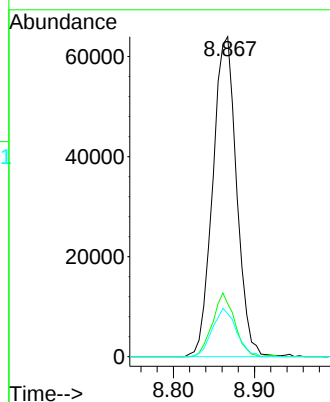
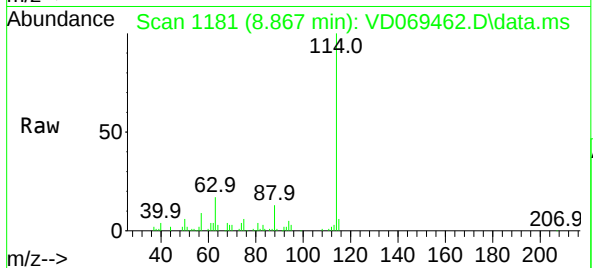
Delta R.T. -0.000 min

Lab File: VD069462.D

Acq: 16 Jun 2021 13:00

Tgt Ion:	114	Resp:	130609
Ion Ratio	Lower	Upper	
114	100		
63	16.6	0.0	35.6
88	13.5	0.0	31.2

Instrument :
MSVOA_D
ClientSampleId :



#35

Dibromofluoromethane

Concen: 51.119 ug/l

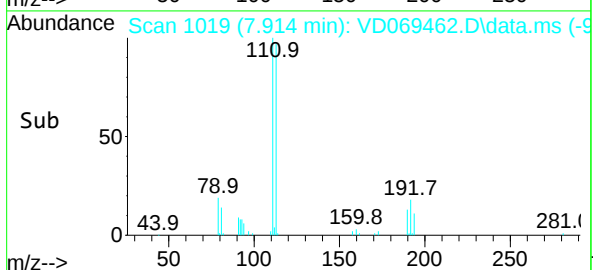
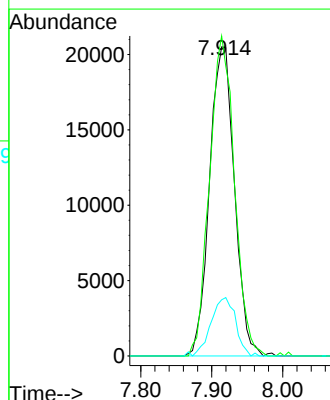
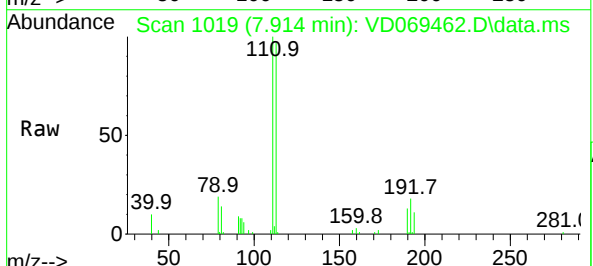
RT: 7.914 min Scan# 1019

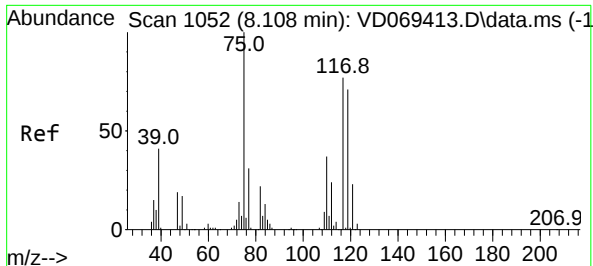
Delta R.T. -0.000 min

Lab File: VD069462.D

Acq: 16 Jun 2021 13:00

Tgt Ion:	113	Resp:	50008
Ion Ratio	Lower	Upper	
113	100		
111	103.3	83.0	124.6
192	18.7	15.1	22.7

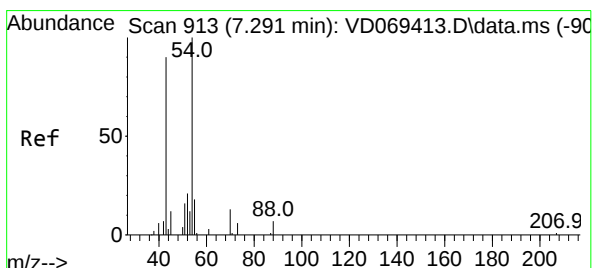
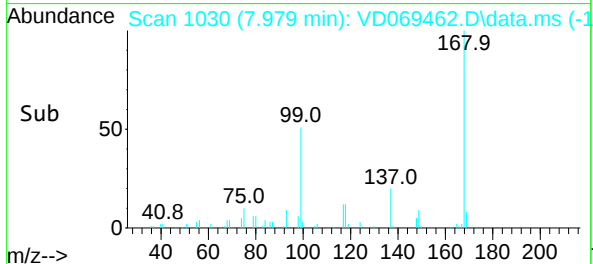
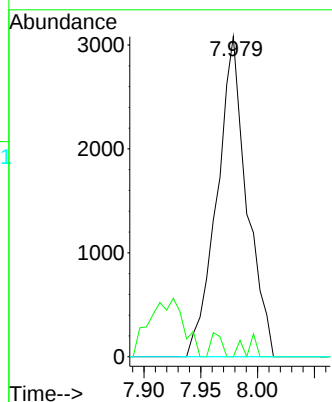
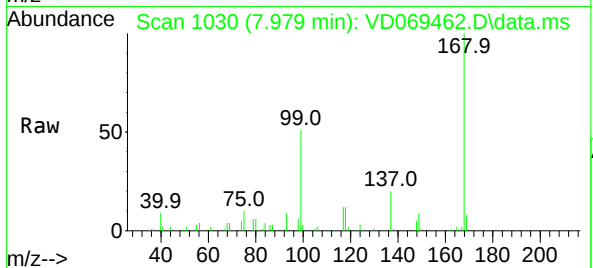




#36
1,1-Dichloropropene
Concen: 4.129 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

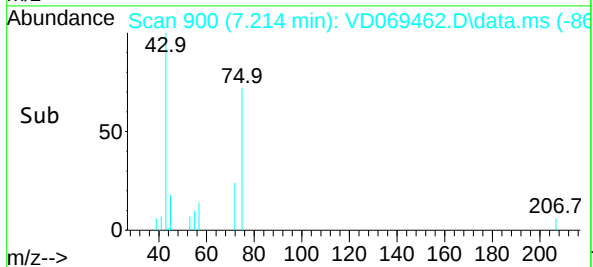
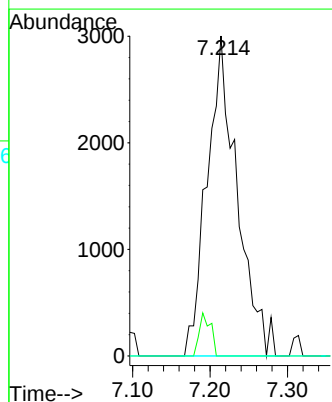
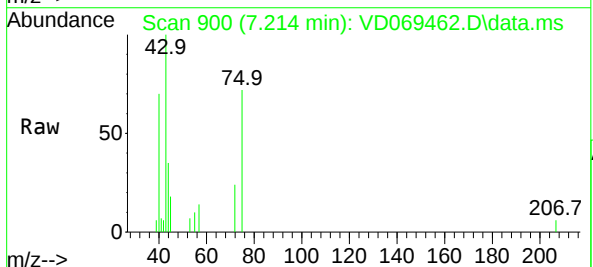
Instrument :
MSVOA_D
ClientSampled :

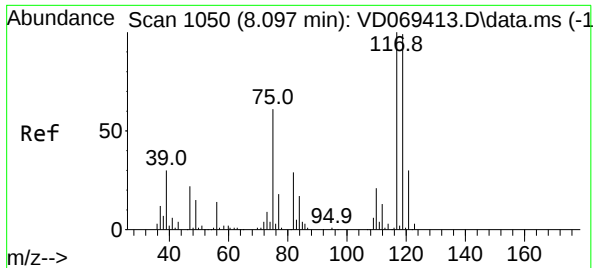
Tgt Ion: 75 Resp: 5616
Ion Ratio Lower Upper
75 100
110 1.0 18.4 55.2#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 17.815 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.077 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 43 Resp: 8106
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 9.7 14.5#

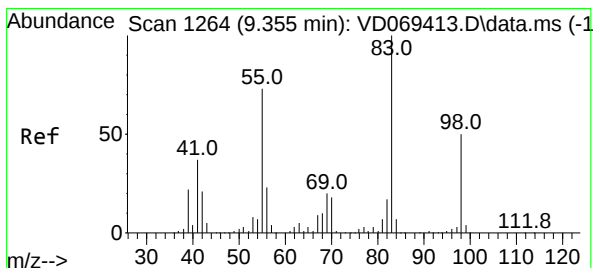
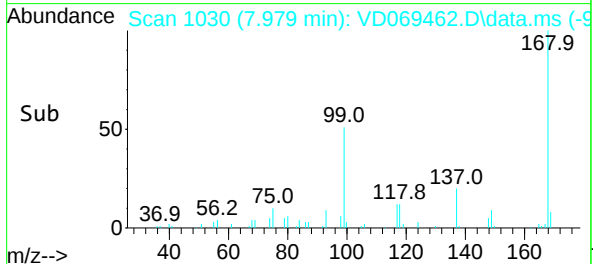
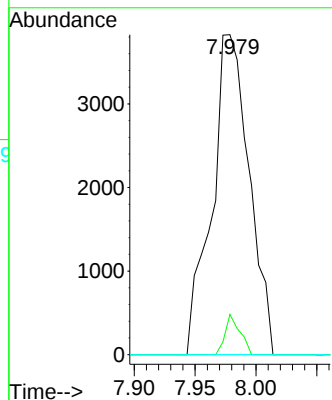
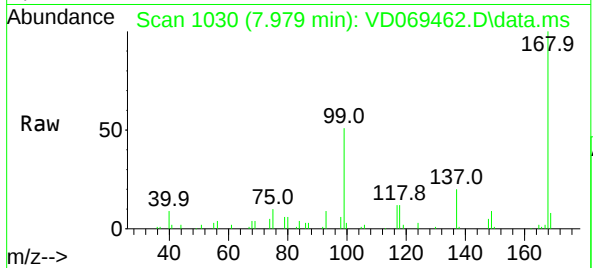




#38
Carbon Tetrachloride
Concen: 5.554 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

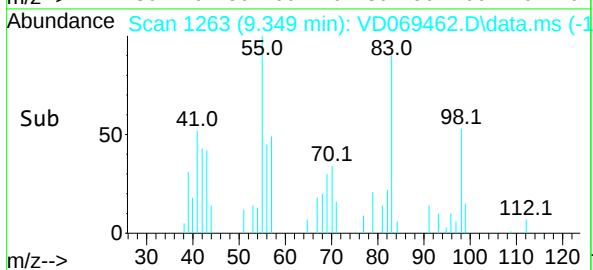
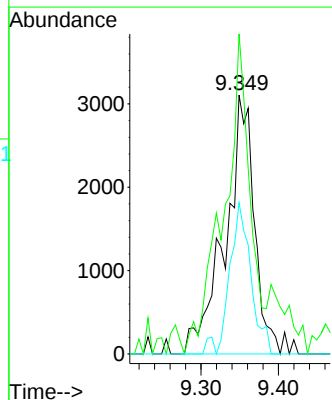
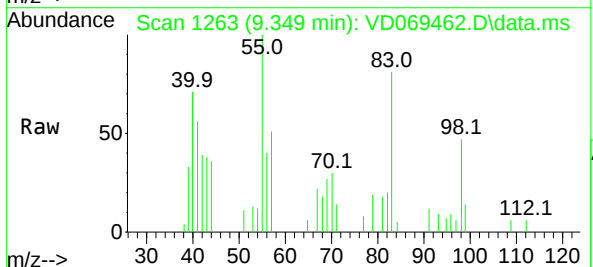
Instrument :
MSVOA_D
ClientSampleId :

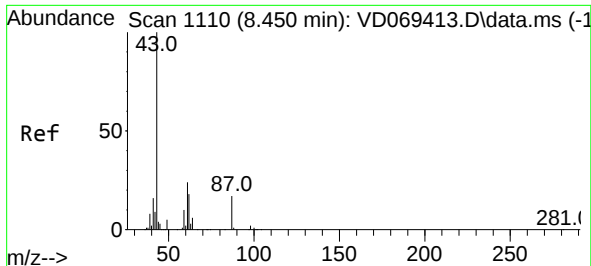
Tgt Ion:117 Resp: 8182
Ion Ratio Lower Upper
117 100
119 12.6 79.4 119.2#
121 0.0 26.1 39.1#



#39
Methylcyclohexane
Concen: 5.926 ug/l
RT: 9.349 min Scan# 1263
Delta R.T. -0.006 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 83 Resp: 8107
Ion Ratio Lower Upper
83 100
55 118.2 57.4 86.2#
98 58.5 42.2 63.2





#43

Isopropyl Acetate

Concen: 1.287 ug/l

RT: 8.455 min Scan# 1111

Delta R.T. 0.005 min

Lab File: VD069462.D

Acq: 16 Jun 2021 13:00

Tgt Ion: 43 Resp: 1107

Ion Ratio Lower Upper

43 100

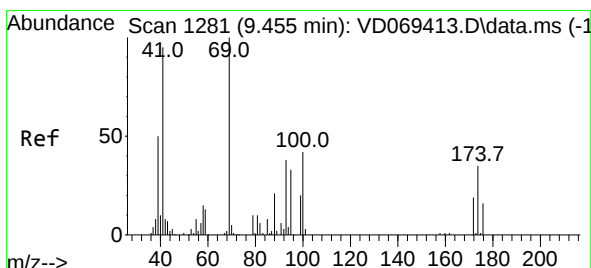
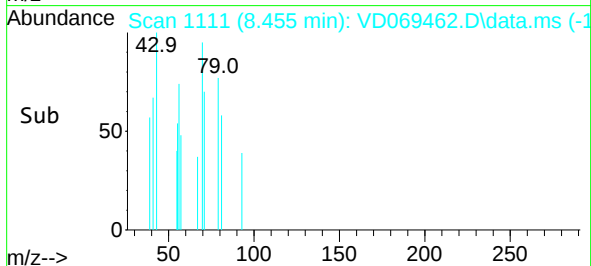
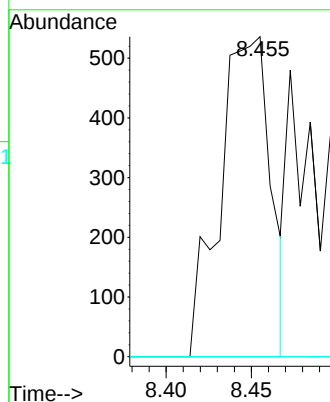
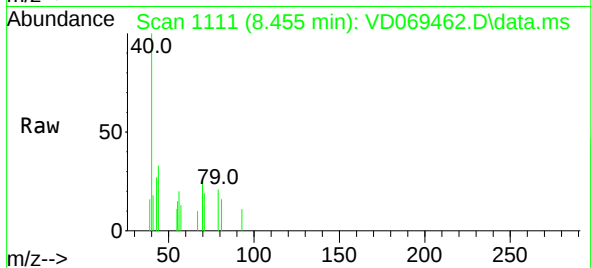
61 0.0 29.0 43.6#

87 0.0 12.7 19.1#

Instrument :

MSVOA_D

ClientSampled :



#48

Methyl methacrylate

Concen: 1.091 ug/l

RT: 9.484 min Scan# 1286

Delta R.T. 0.029 min

Lab File: VD069462.D

Acq: 16 Jun 2021 13:00

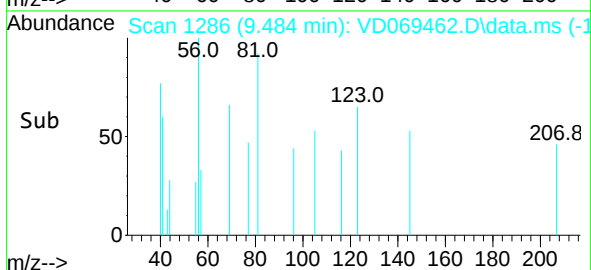
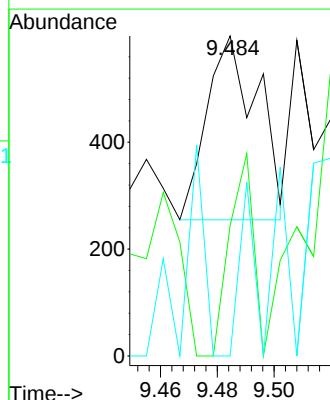
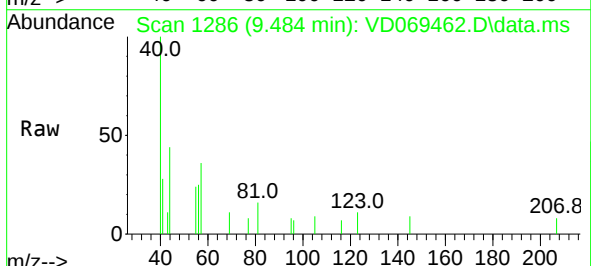
Tgt Ion: 41 Resp: 427

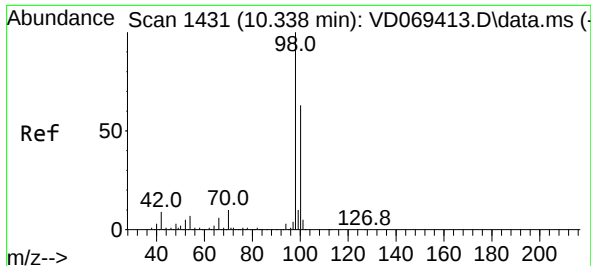
Ion Ratio Lower Upper

41 100

69 51.5 77.6 116.4#

39 26.9 45.3 67.9#

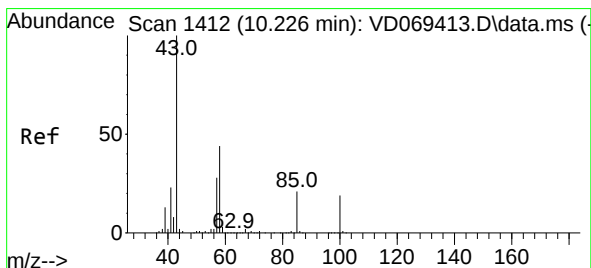
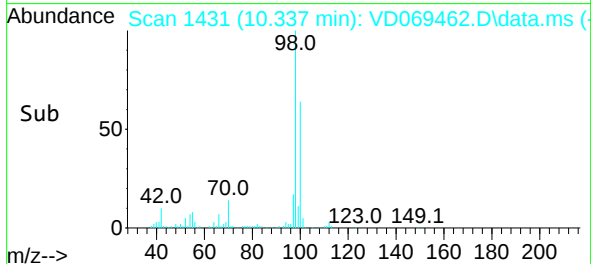
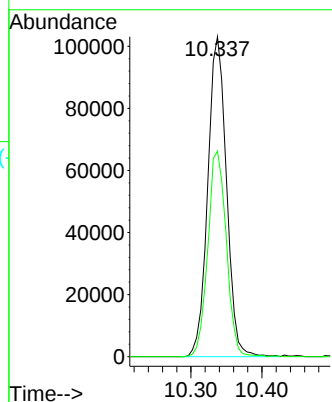
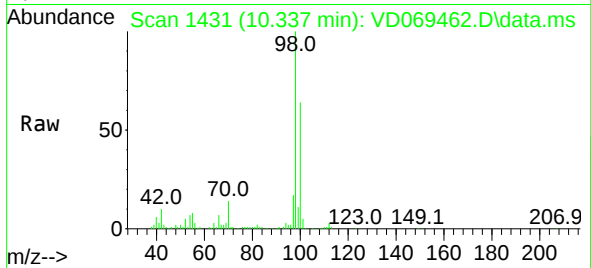




#50
Toluene-d8
Concen: 52.659 ug/l
RT: 10.337 min Scan# 1431
Delta R.T. -0.001 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

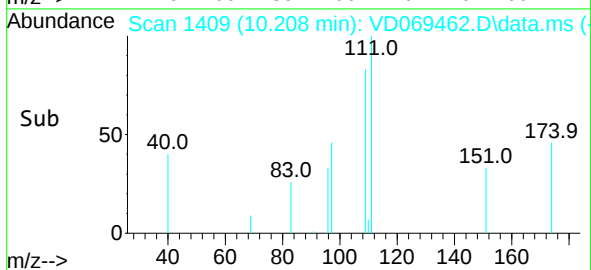
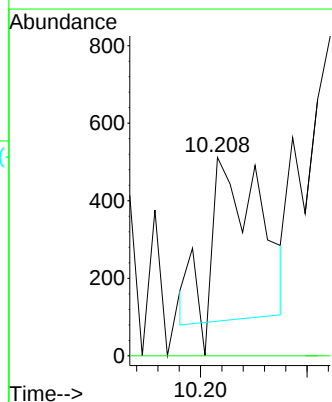
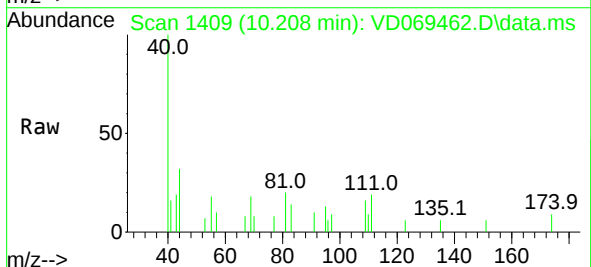
Instrument :
MSVOA_D
ClientSampled :

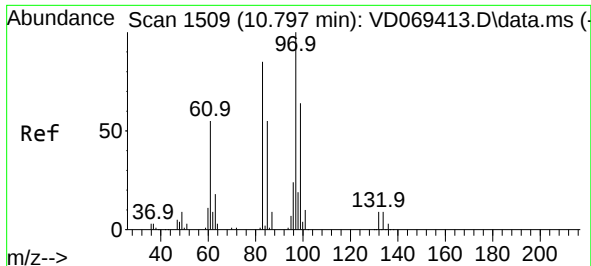
Tgt Ion: 98 Resp: 188413
Ion Ratio Lower Upper
98 100
100 63.6 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.513 ug/l
RT: 10.208 min Scan# 1409
Delta R.T. -0.018 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 43 Resp: 664
Ion Ratio Lower Upper
43 100
58 0.0 35.1 52.7#

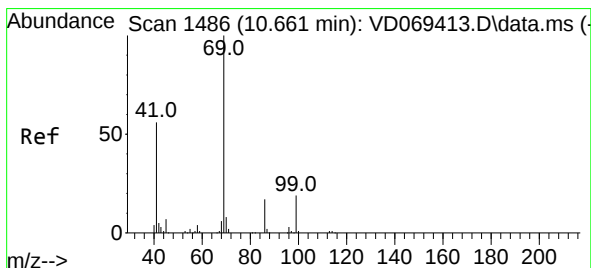
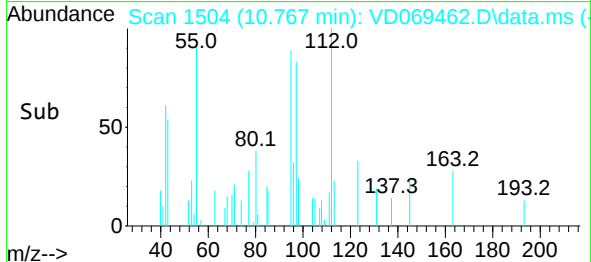
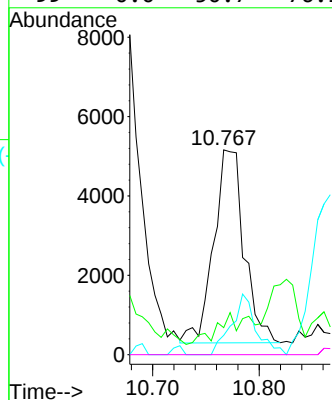
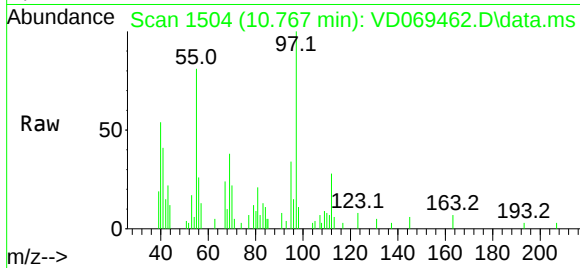




#55
1,1,2-Trichloroethane
Concen: 12.624 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.030 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

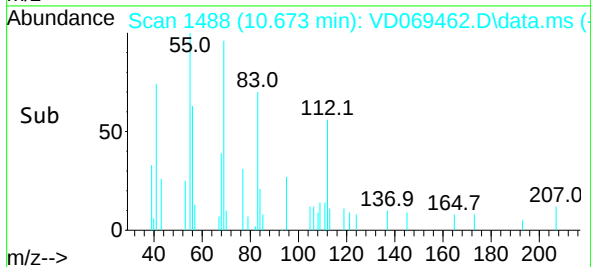
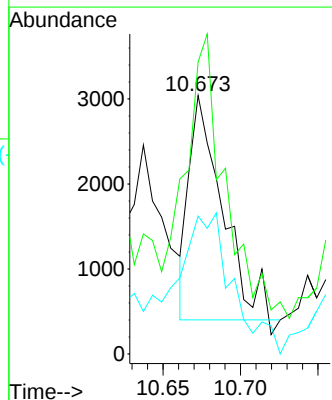
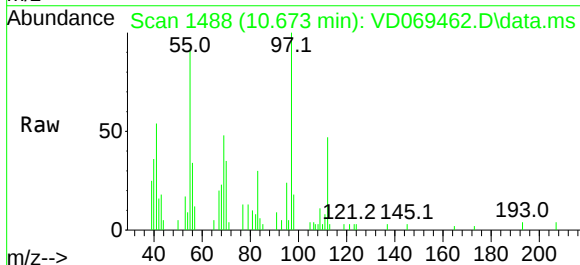
Instrument :
MSVOA_D
ClientSampleId :

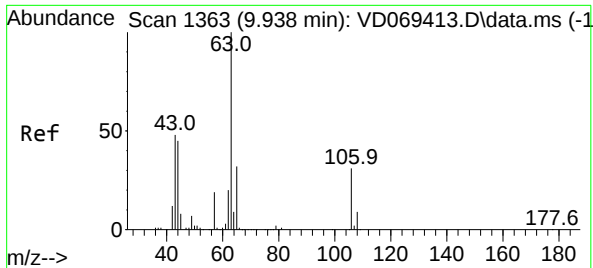
Tgt Ion:	97	Resp:	9661
Ion	Ratio	Lower	Upper
97	100		
83	6.2	69.4	104.0#
85	6.4	44.5	66.7#
99	0.0	50.7	76.1#



#56
Ethyl methacrylate
Concen: 7.057 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.012 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion:	69	Resp:	3921
Ion	Ratio	Lower	Upper
69	100		
41	151.3	45.4	68.2#
39	96.4	21.7	32.5#

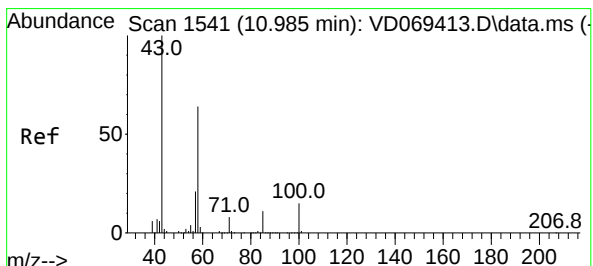
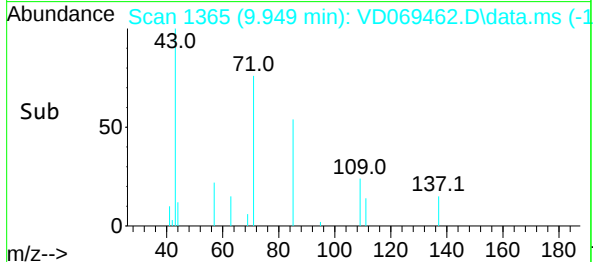
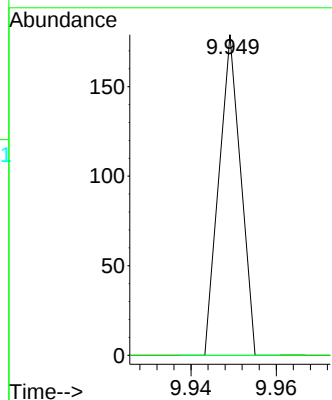
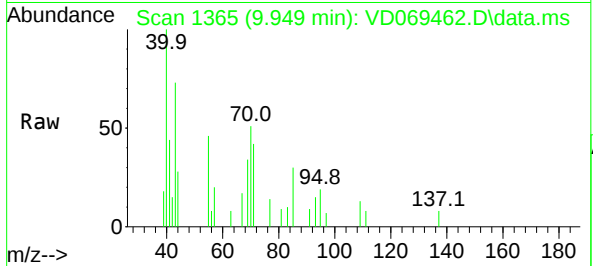




#58
2-Chloroethyl Vinyl ether
Concen: 12.077 ug/l
RT: 9.949 min Scan# 1365
Delta R.T. 0.011 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

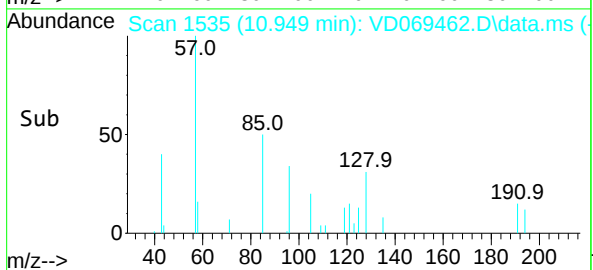
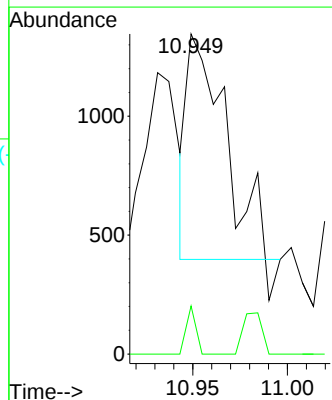
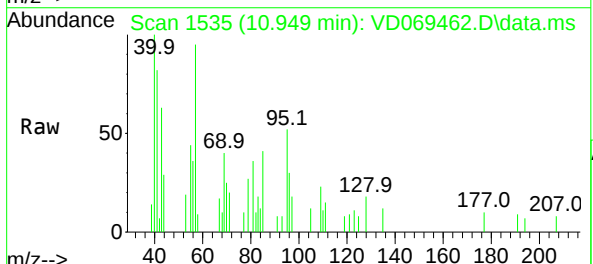
Instrument :
MSVOA_D
ClientSampled :

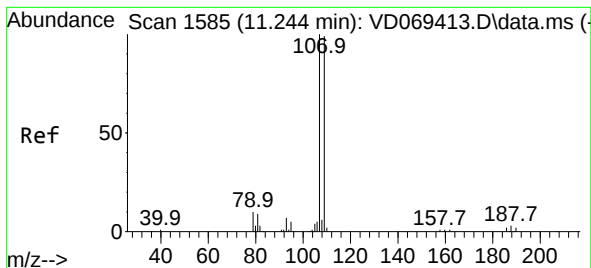
Tgt Ion: 63 Resp: 63
Ion Ratio Lower Upper
63 100
106 0.0 24.8 37.2#



#59
2-Hexanone
Concen: 4.440 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.036 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 43 Resp: 1301
Ion Ratio Lower Upper
43 100
58 5.5 30.8 92.3#

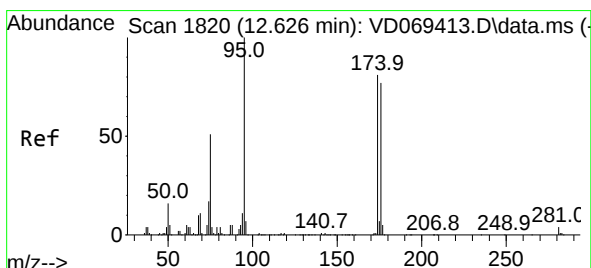
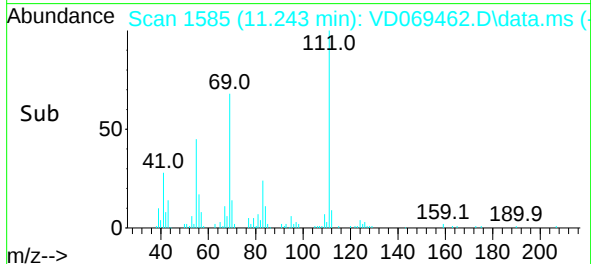
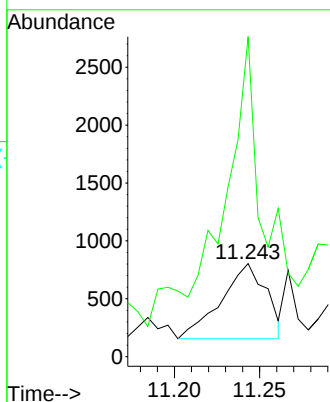
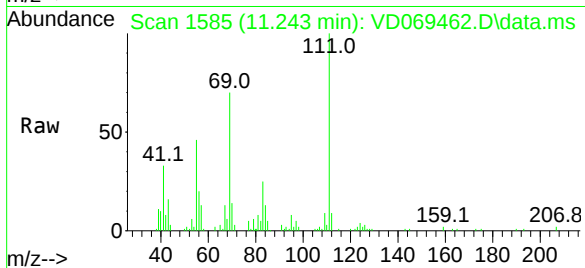




#61
1,2-Dibromoethane
Concen: 1.626 ug/l
RT: 11.243 min Scan# 1585
Delta R.T. -0.001 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

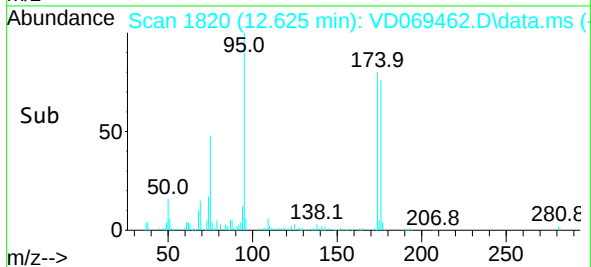
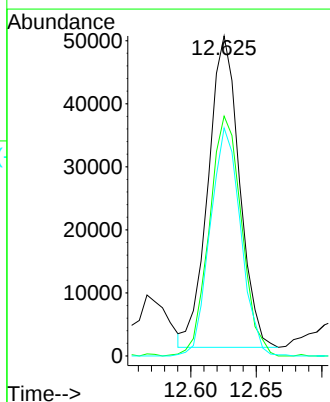
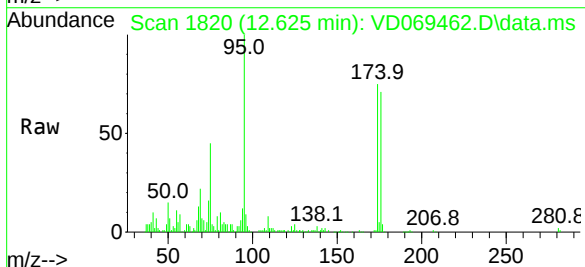
Instrument :
MSVOA_D
ClientSampleId :

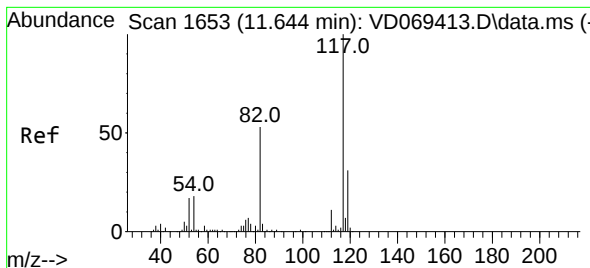
Tgt Ion:107 Resp: 1195
Ion Ratio Lower Upper
107 100
109 236.5 75.9 113.9#



#62
4-Bromofluorobenzene
Concen: 71.202 ug/l
RT: 12.625 min Scan# 1820
Delta R.T. -0.001 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 95 Resp: 81743
Ion Ratio Lower Upper
95 100
174 79.5 0.0 162.8
176 71.6 0.0 154.4

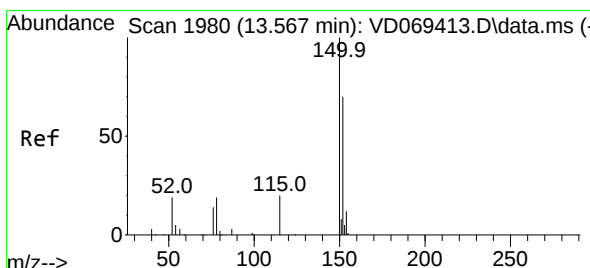
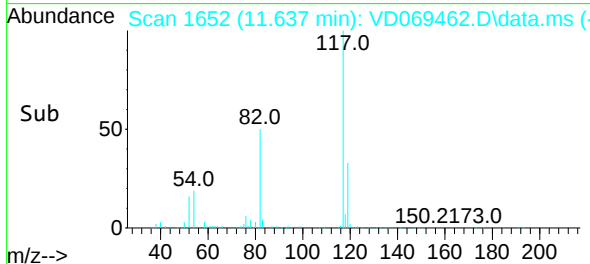
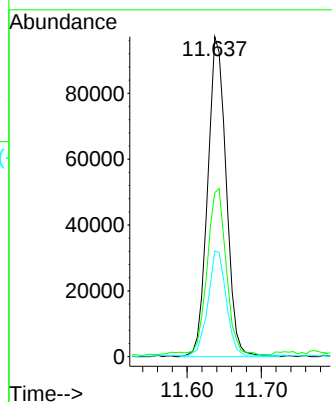
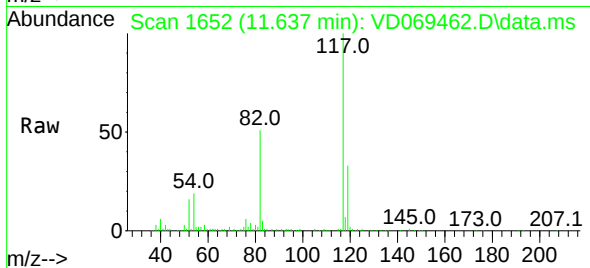




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.007 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

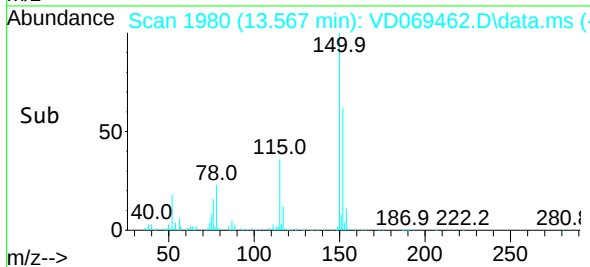
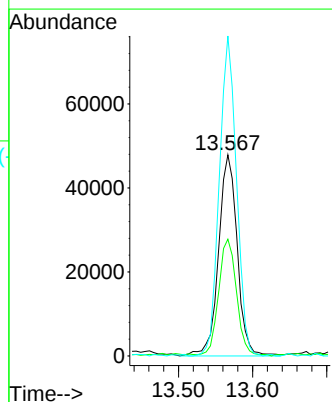
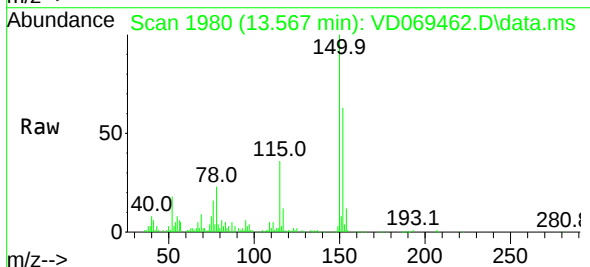
Instrument :
MSVOA_D
ClientSampleId :

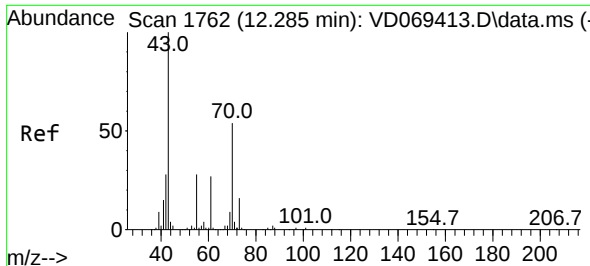
Tgt Ion:117 Resp: 168752
Ion Ratio Lower Upper
117 100
82 49.9 43.3 64.9
119 32.7 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

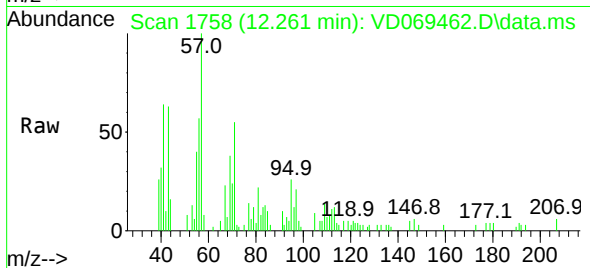
Tgt Ion:152 Resp: 83927
Ion Ratio Lower Upper
152 100
115 55.9 29.4 88.3
150 146.2 0.0 355.0



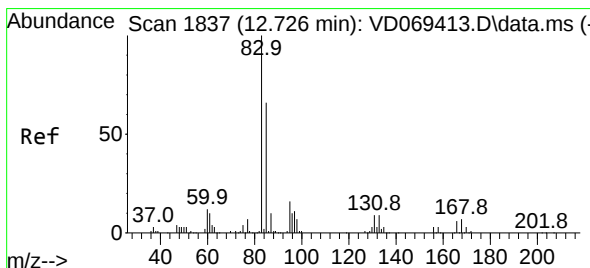
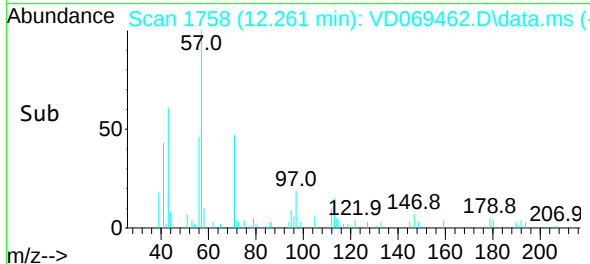
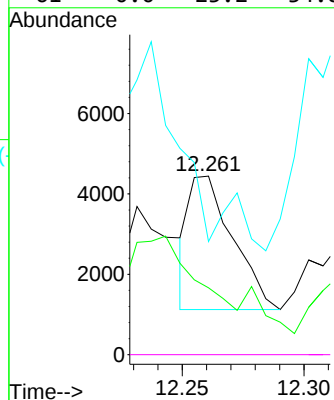


#74
N-amy1 acetate
Concen: 3.891 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.024 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Instrument :
MSVOA_D
ClientSampled :

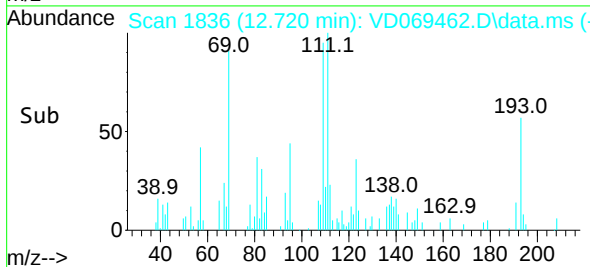
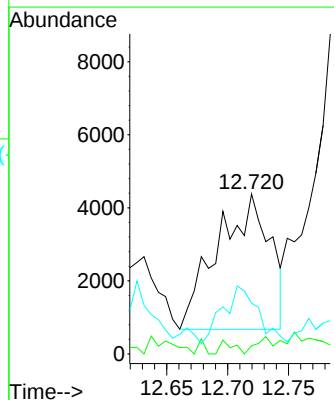
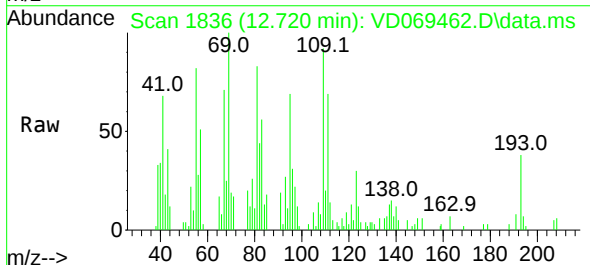


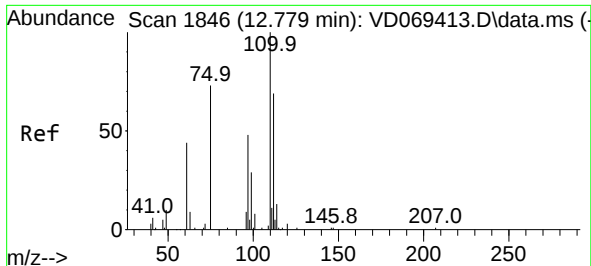
Tgt Ion: 43	Resp: 4119
Ion Ratio	Lower Upper
43	100
70	0.0 40.9 61.3#
55	0.0 23.4 35.0#
61	0.0 23.2 34.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 9.796 ug/l
RT: 12.720 min Scan# 1836
Delta R.T. -0.006 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 83	Resp: 11098
Ion Ratio	Lower Upper
83	100
131	3.8 5.3 16.1#
85	0.0 32.6 98.0#

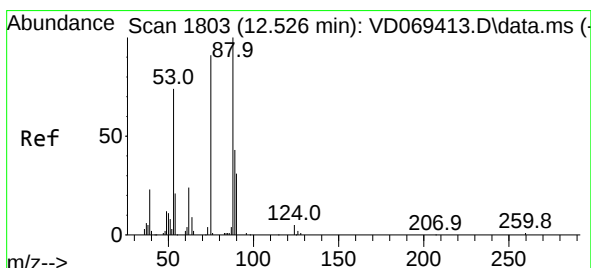
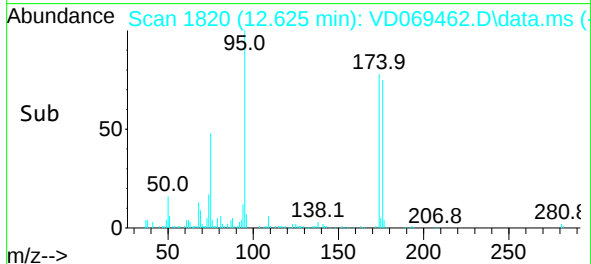
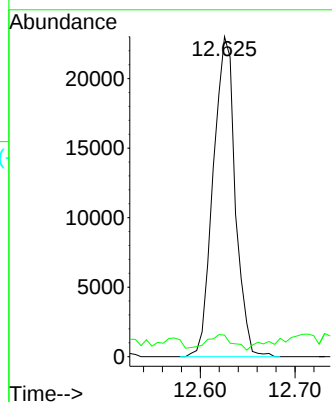
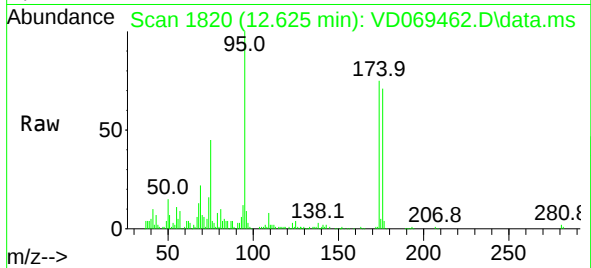




#76
1,2,3-Trichloropropane
Concen: 43.803 ug/l
RT: 12.625 min Scan# 1820
Delta R.T. -0.154 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

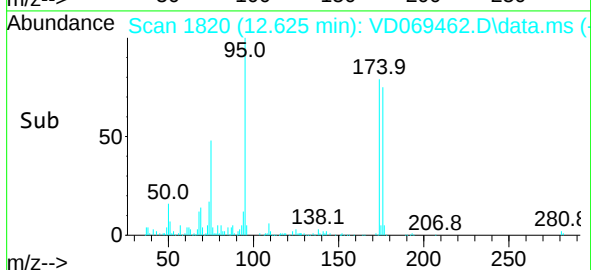
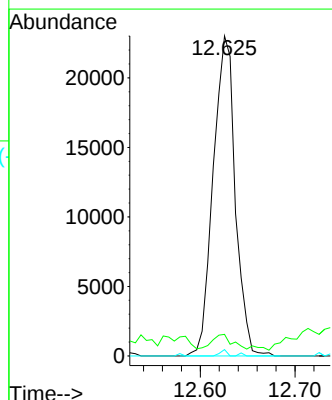
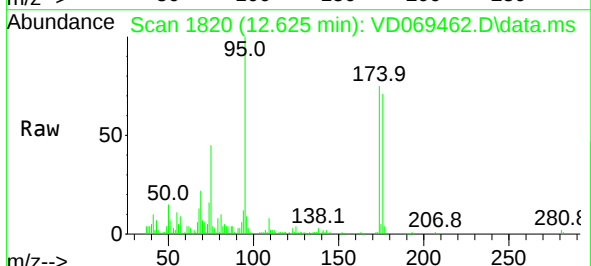
Instrument :
MSVOA_D
ClientSampleId :

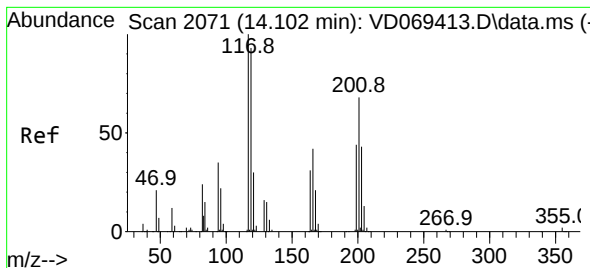
Tgt Ion: 75 Resp: 37271
Ion Ratio Lower Upper
75 100
77 5.4 183.8 551.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 116.855 ug/l
RT: 12.625 min Scan# 1820
Delta R.T. 0.099 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Tgt Ion: 75 Resp: 37271
Ion Ratio Lower Upper
75 100
53 4.0 62.6 94.0#
89 0.6 35.6 53.4#

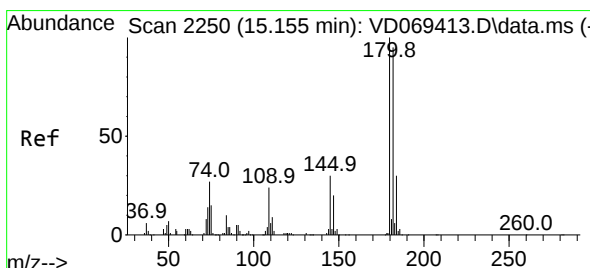
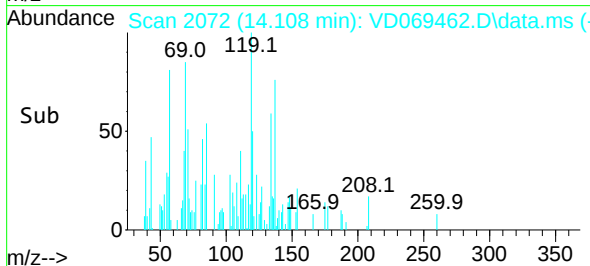
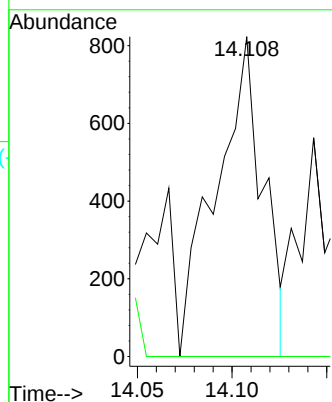
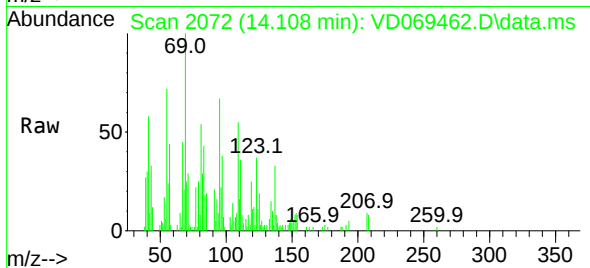




#90
Hexachloroethane
Concen: 1.350 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.006 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

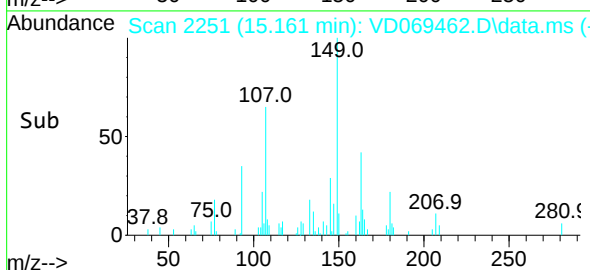
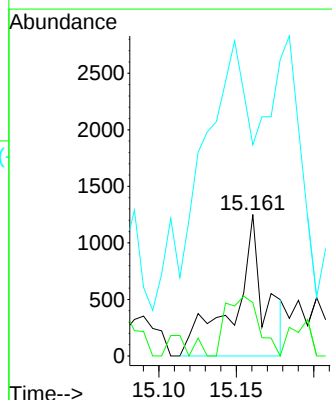
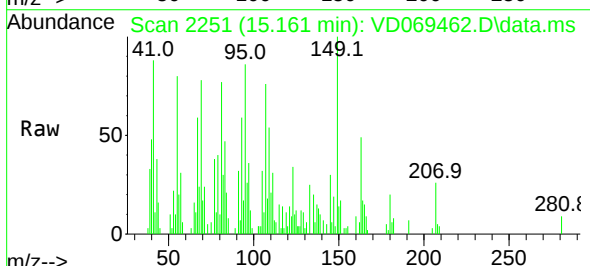
Instrument :
MSVOA_D
ClientSampled :

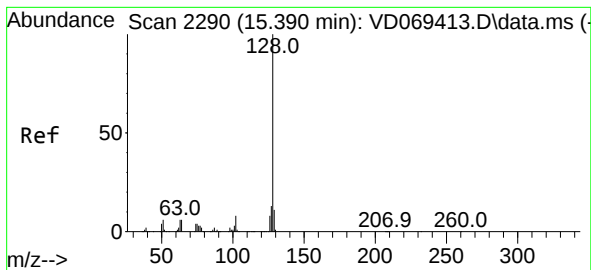
Tgt Ion:117 Resp: 1421
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#93
1,2,4-Trichlorobenzene
Concen: 1.154 ug/l
RT: 15.161 min Scan# 2251
Delta R.T. 0.006 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

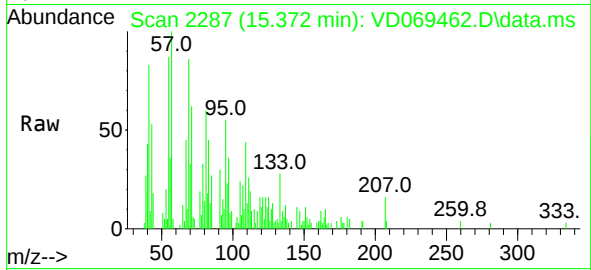
Tgt Ion:180 Resp: 1736
Ion Ratio Lower Upper
180 100
182 45.3 47.3 141.8#
145 362.7 15.2 45.5#





#95
Naphthalene
Concen: 3.679 ug/l
RT: 15.372 min Scan# 2287
Delta R.T. -0.018 min
Lab File: VD069462.D
Acq: 16 Jun 2021 13:00

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 339
Ion Ratio Lower Upper
128 100
127 140.1 10.4 15.6#
129 289.7 8.8 13.2#

