

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061421\
 Data File : VD069436.D
 Acq On : 14 Jun 2021 19:38
 Operator : VA/SY
 Sample : M2709-08
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 07:30:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D061121S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 11 12:50:13 2021
 Response via : Initial Calibration

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

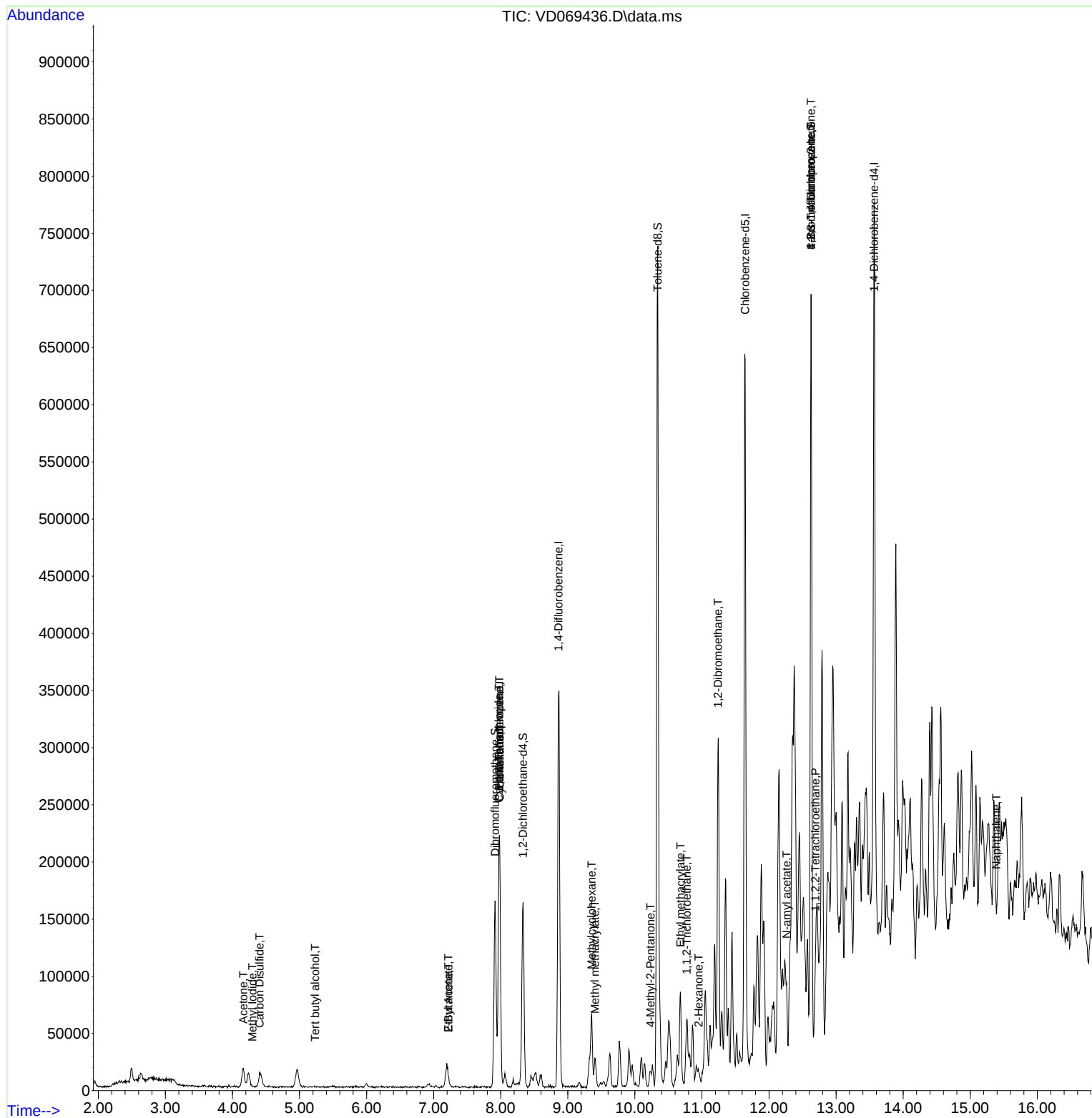
Internal Standards						
1) Pentafluorobenzene	7.979	168	165446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	320931	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	389242	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	193491	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	132701	71.10	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 142.20%			
35) Dibromofluoromethane	7.914	113	115022	47.85	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.70%			
50) Toluene-d8	10.338	98	442916	50.38	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 100.76%			
62) 4-Bromofluorobenzene	12.626	95	188803	66.93	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 133.86%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.774	94	289	Below Cal		94
10) Methyl Iodide	4.297	142	56	3.36 ug/l #		39
11) Tert butyl alcohol	5.232	59	154	1.59 ug/l #		73
16) Acetone	4.162	43	29350	95.00 ug/l #		87
17) Carbon Disulfide	4.403	76	24686	4.35 ug/l		95
18) Methyl Acetate	4.791	43	96	Below Cal #		46
20) Methylene Chloride	4.968	84	12497	Below Cal #		75
25) 2-Butanone	7.220	43	6084	15.79 ug/l		99
31) Cyclohexane	7.985	56	8261	3.26 ug/l #		70
36) 1,1-Dichloropropene	7.979	75	12287	3.68 ug/l #		51
37) Ethyl Acetate	7.220	43	6084	5.44 ug/l #		67
38) Carbon Tetrachloride	7.973	117	16112	4.45 ug/l #		14
39) Methylcyclohexane	9.356	83	20550	6.11 ug/l #		86
48) Methyl methacrylate	9.403	41	4873	5.07 ug/l #		48
51) 4-Methyl-2-Pentanone	10.232	43	1232	1.14 ug/l #		50
55) 1,1,2-Trichloroethane	10.773	97	18974	10.09 ug/l #		23
56) Ethyl methacrylate	10.679	69	8458	6.54 ug/l #		35
59) 2-Hexanone	10.950	43	3766	5.23 ug/l #		20
61) 1,2-Dibromoethane	11.238	107	2527	1.40 ug/l #		1
74) N-amyl acetate	12.261	43	10811	4.43 ug/l #		37
75) 1,1,2,2-Tetrachloroethane	12.691	83	7881	3.02 ug/l #		25
76) 1,2,3-Trichloropropane	12.626	75	89073	45.41 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.626	75	89073	121.13 ug/l #		21
95) Naphthalene	15.391	128	1308	3.75 ug/l #		81

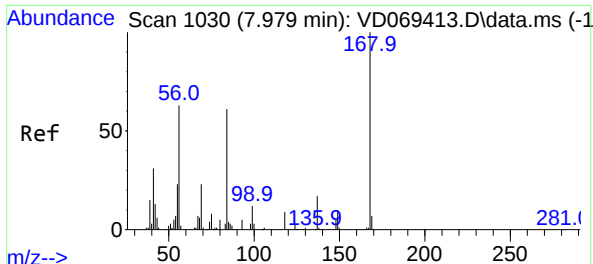
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD069436.D
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Quant Time: Jun 15 07:30:37 2021
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Quant Title : SW846 8260
QLast Update : Fri Jun 11 12:50:13 2021
Response via : Initial Calibration

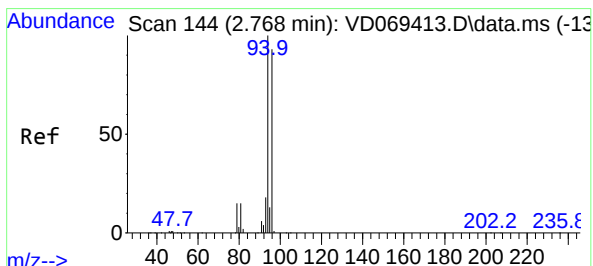
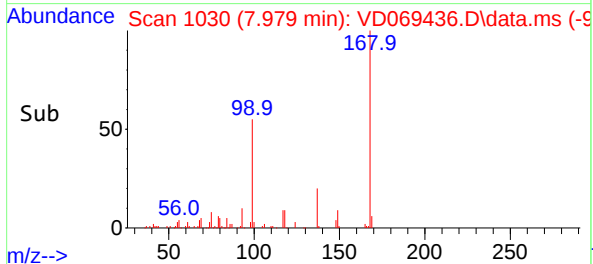
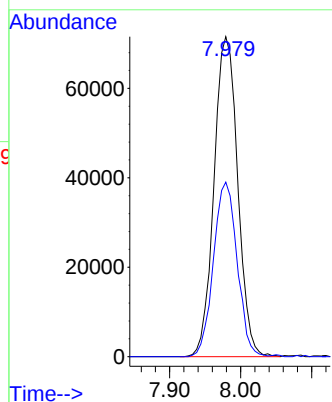
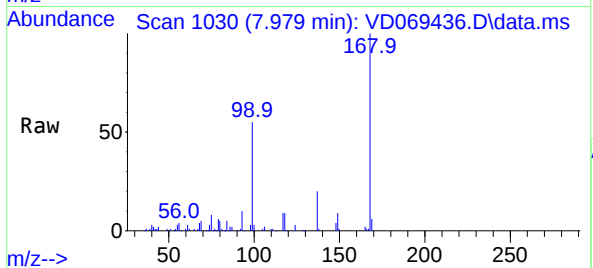




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

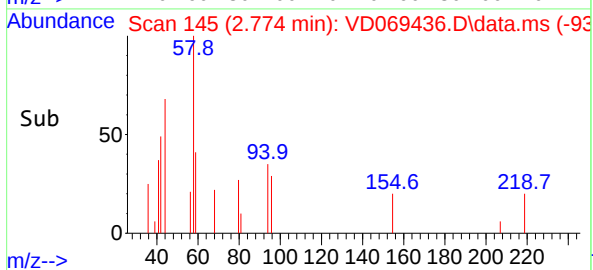
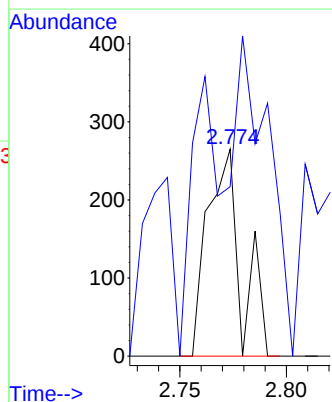
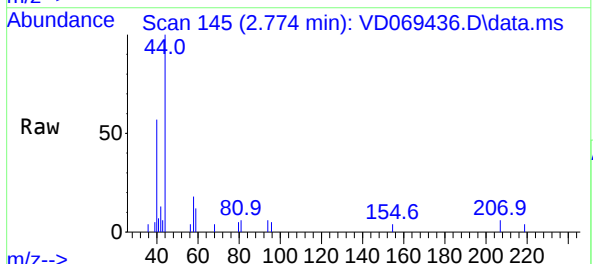
Instrument :
MSVOA_D
ClientSampled :

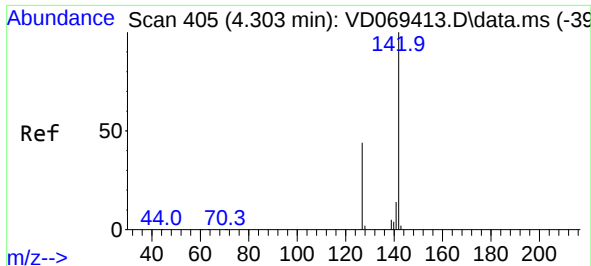
Tgt Ion:168 Resp: 165446
Ion Ratio Lower Upper
168 100
99 54.5 46.2 69.2



#5
Bromomethane
Concen: Below Cal
RT: 2.774 min Scan# 145
Delta R.T. 0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion: 94 Resp: 289
Ion Ratio Lower Upper
94 100
96 81.9 70.3 105.5





#10

Methyl Iodide

Concen: 3.36 ug/l

RT: 4.297 min Scan# 404

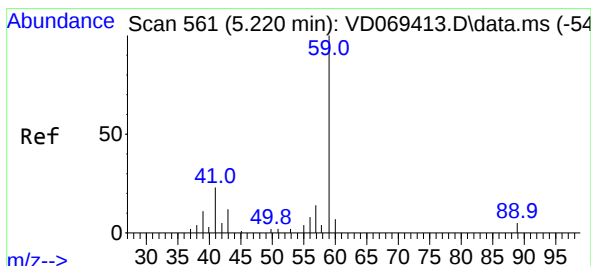
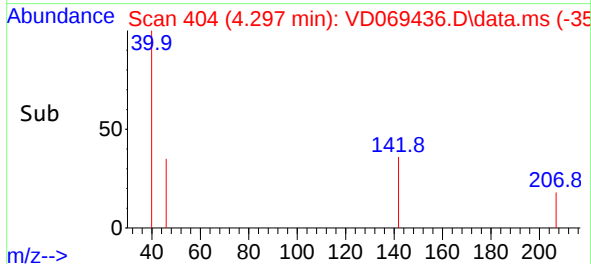
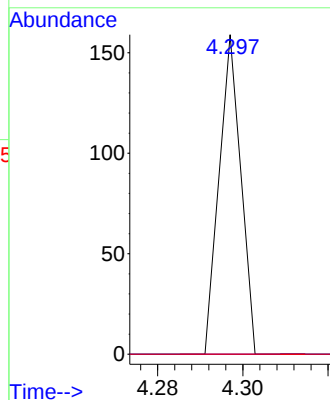
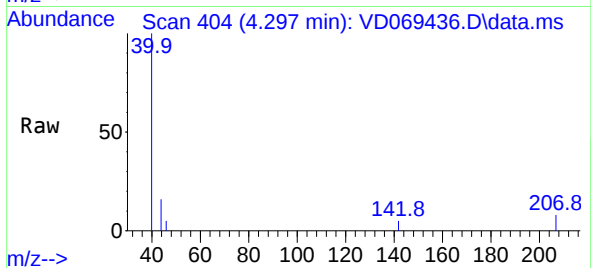
Delta R.T. -0.006 min

Lab File: VD069436.D

Acq: 14 Jun 2021 19:38

Tgt Ion:	142	Resp:	56
Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.2	54.2#
141	0.0	12.2	18.2#

Instrument :
MSVOA_D
ClientSampled :



#11

Tert butyl alcohol

Concen: 1.59 ug/l

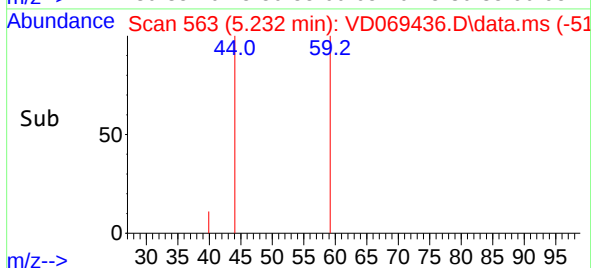
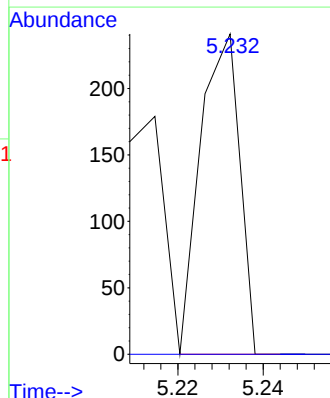
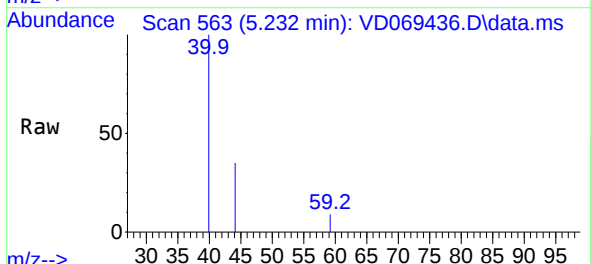
RT: 5.232 min Scan# 563

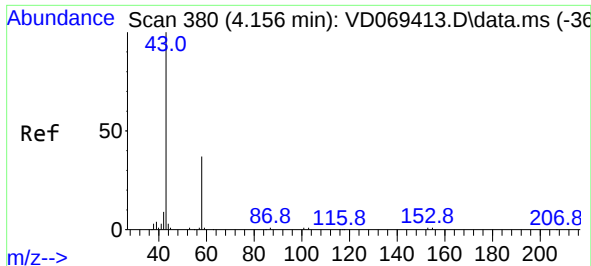
Delta R.T. 0.012 min

Lab File: VD069436.D

Acq: 14 Jun 2021 19:38

Tgt Ion:	59	Resp:	154
Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.8#

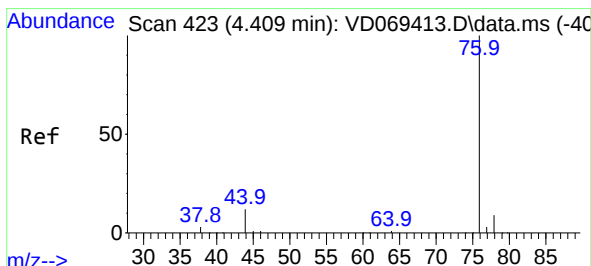
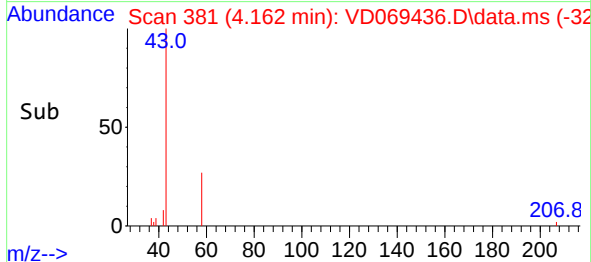
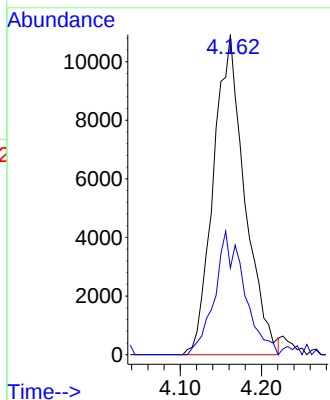
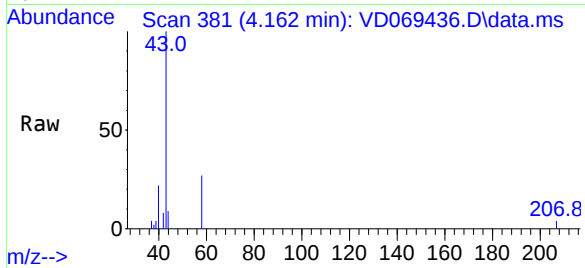




#16
Acetone
Concen: 95.00 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

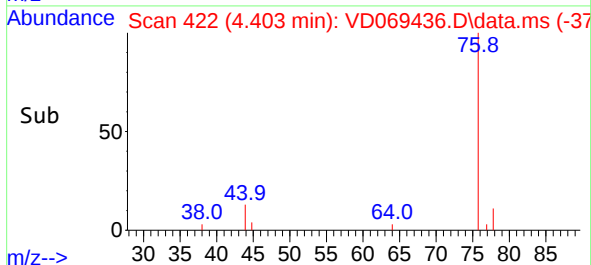
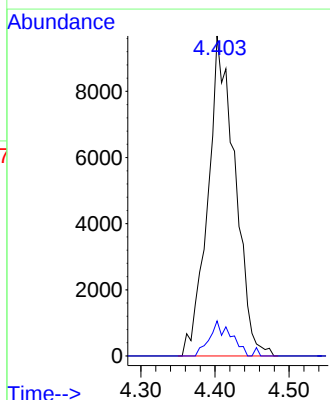
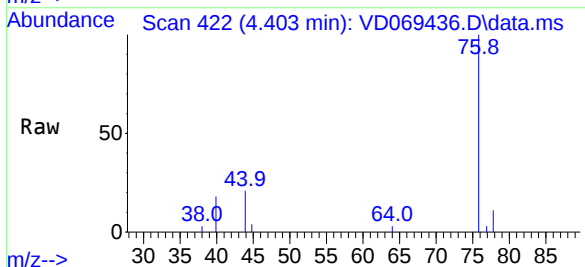
Instrument :
MSVOA_D
ClientSampled :

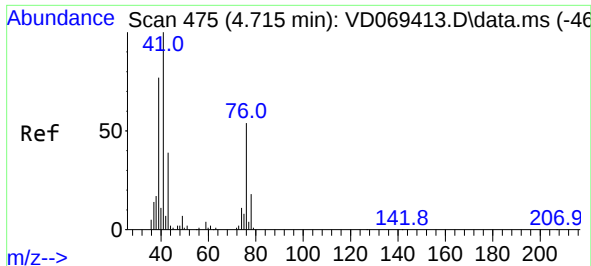
Tgt Ion: 43 Resp: 29350
Ion Ratio Lower Upper
43 100
58 27.1 27.5 41.3#



#17
Carbon Disulfide
Concen: 4.35 ug/l
RT: 4.403 min Scan# 422
Delta R.T. -0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion: 76 Resp: 24686
Ion Ratio Lower Upper
76 100
78 11.0 7.4 11.0

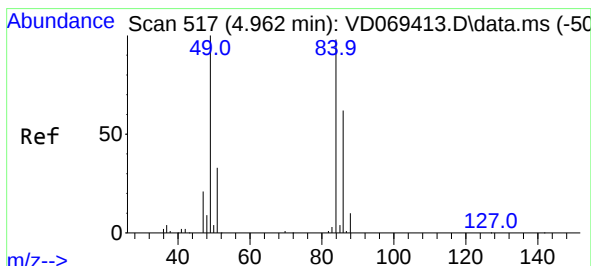
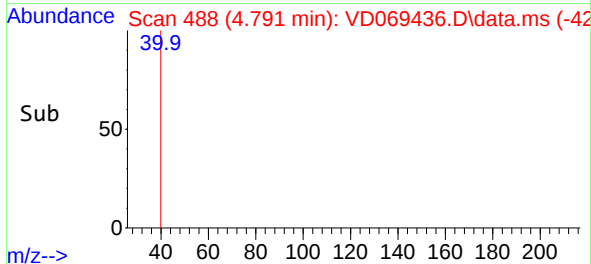
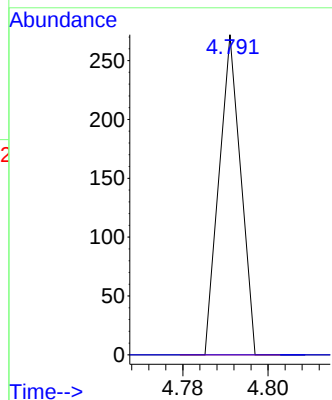
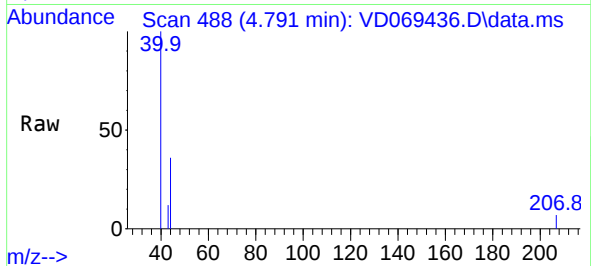




#18
Methyl Acetate
Concen: Below Cal
RT: 4.791 min Scan# 488
Delta R.T. 0.076 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

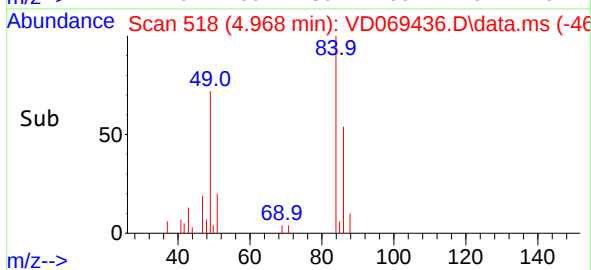
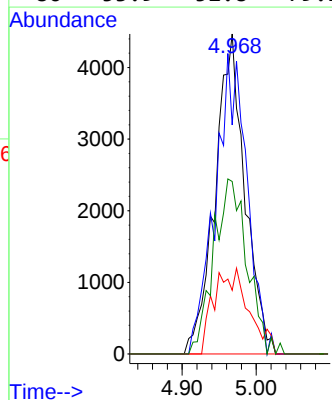
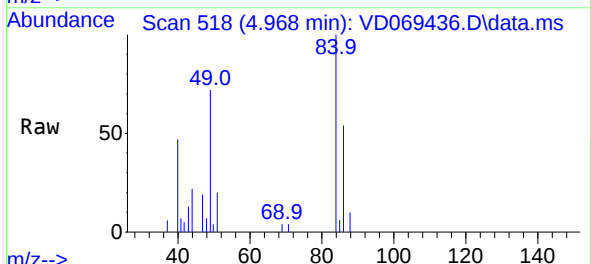
Instrument :
MSVOA_D
ClientSampled :

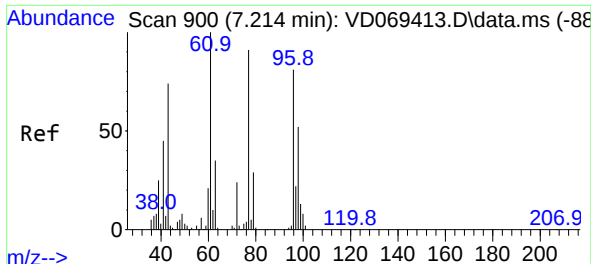
Tgt Ion: 43 Resp: 96
Ion Ratio Lower Upper
43 100
74 0.0 22.8 34.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.968 min Scan# 518
Delta R.T. 0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

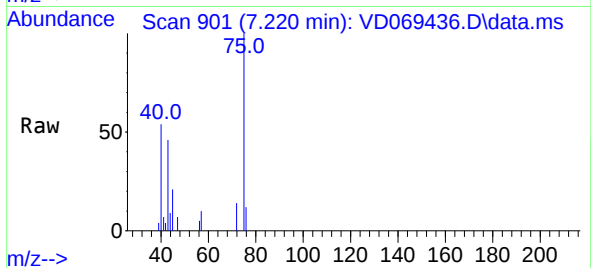
Tgt Ion: 84 Resp: 12497
Ion Ratio Lower Upper
84 100
49 71.6 83.7 125.5#
51 19.9 26.4 39.6#
86 53.9 52.8 79.2



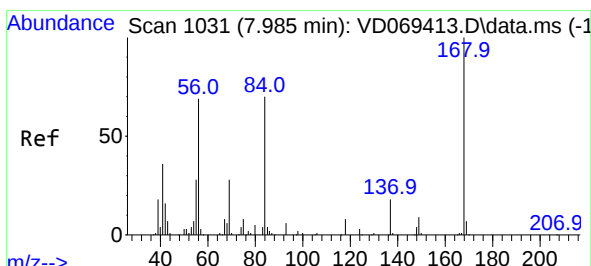
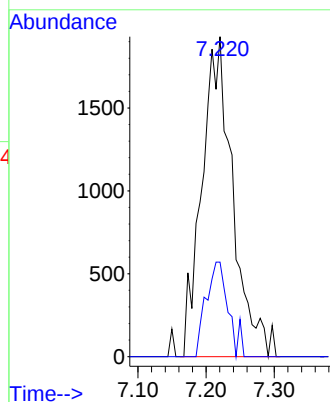
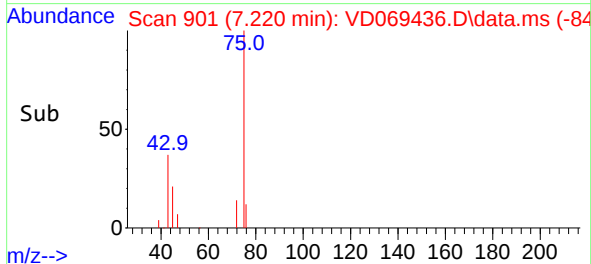


#25
2-Butanone
Concen: 15.79 ug/l
RT: 7.220 min Scan# 901
Delta R.T. 0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

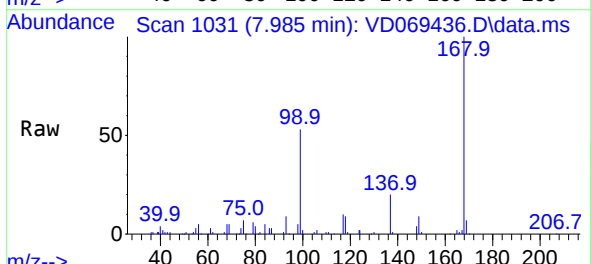
Instrument :
MSVOA_D
ClientSampled :



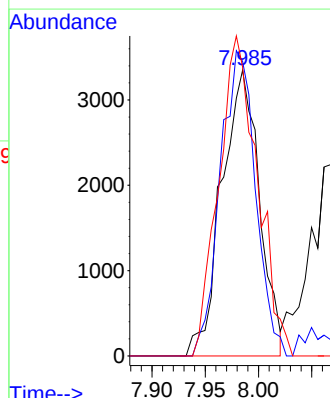
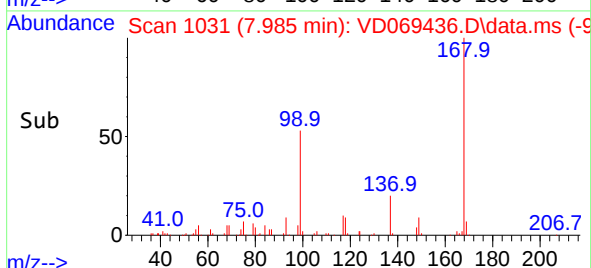
Tgt Ion: 43 Resp: 6084
Ion Ratio Lower Upper
43 100
72 29.5 23.9 35.9

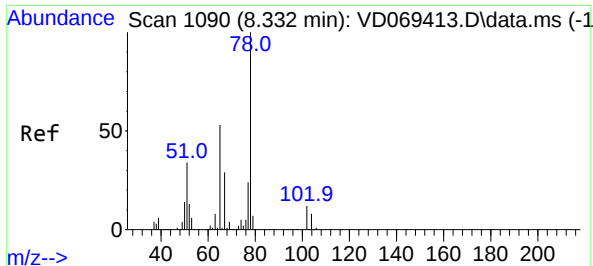


#31
Cyclohexane
Concen: 3.26 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38



Tgt Ion: 56 Resp: 8261
Ion Ratio Lower Upper
56 100
69 103.1 29.0 43.4#
84 101.0 81.1 121.7



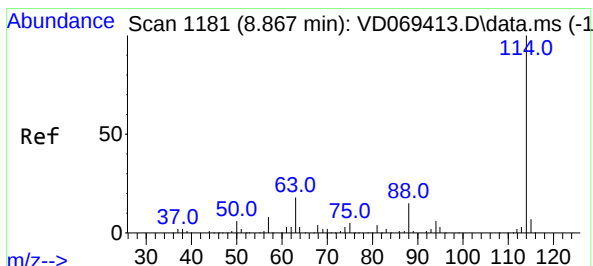
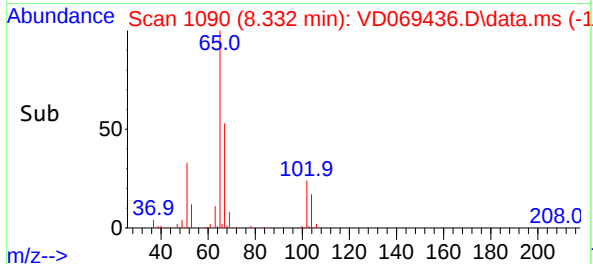
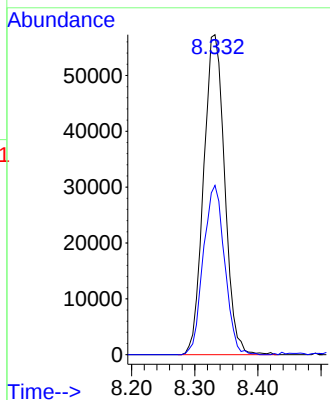
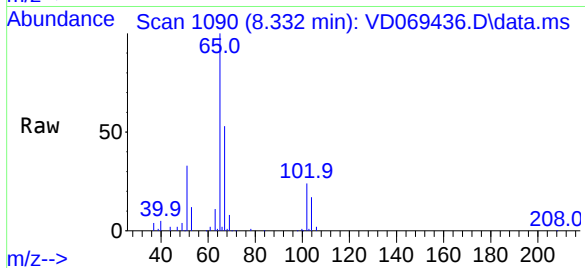


#33

1,2-Dichloroethane-d4
Concen: 71.10 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Instrument :
MSVOA_D
ClientSampled :

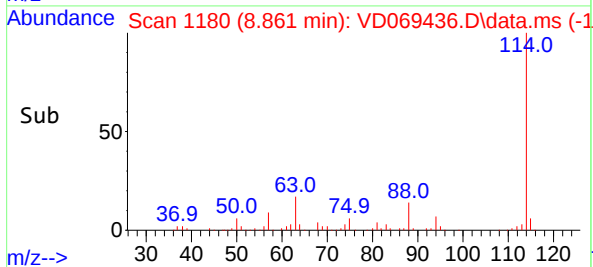
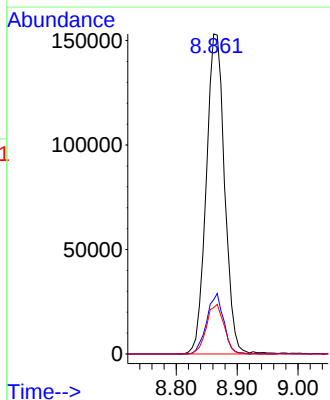
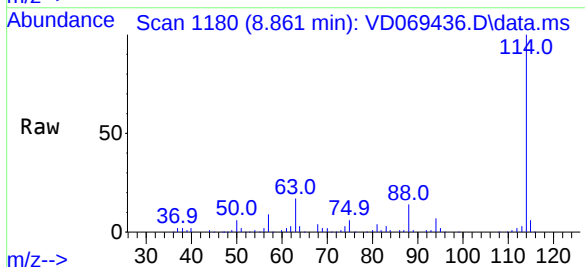
Tgt Ion: 65 Resp: 132701
Ion Ratio Lower Upper
65 100
67 53.6 0.0 105.8

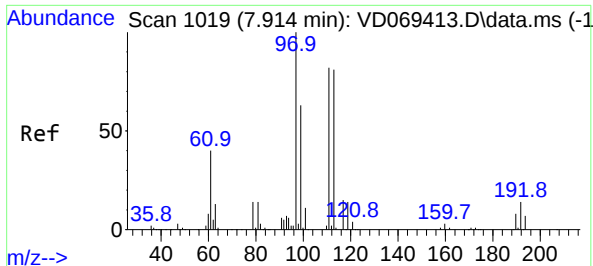


#34

1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion:114 Resp: 320931
Ion Ratio Lower Upper
114 100
63 17.0 0.0 35.6
88 14.5 0.0 31.2

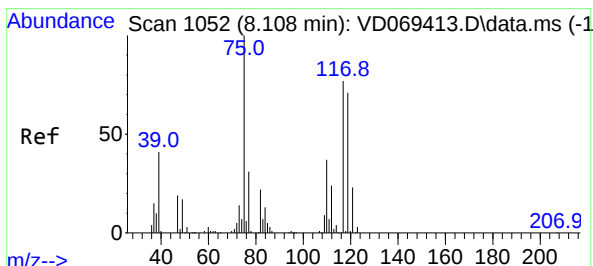
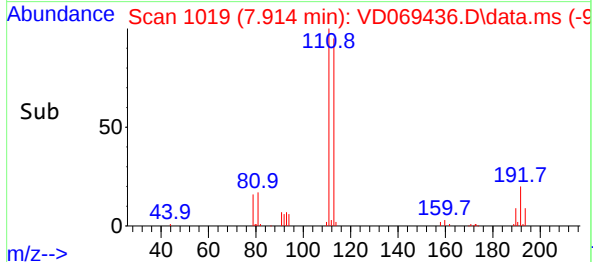
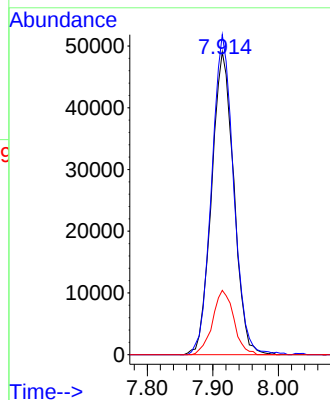
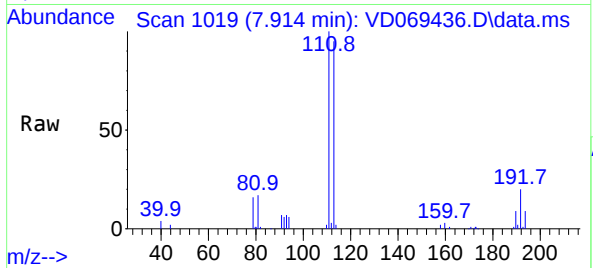




#35
Dibromofluoromethane
Concen: 47.85 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

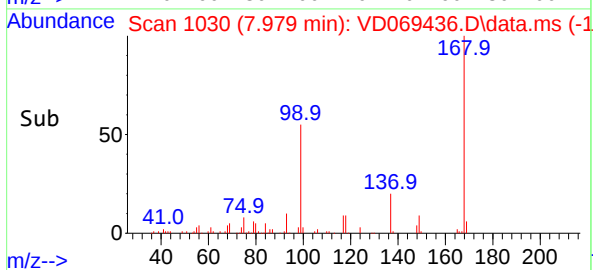
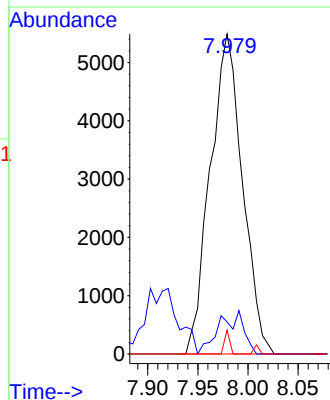
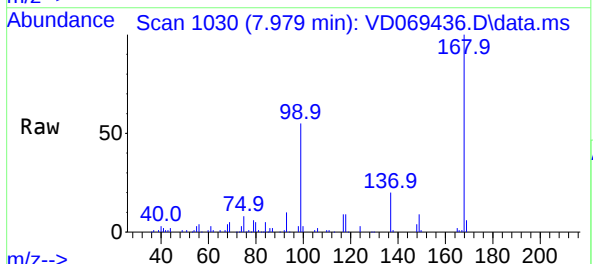
Instrument :
MSVOA_D
ClientSampled :

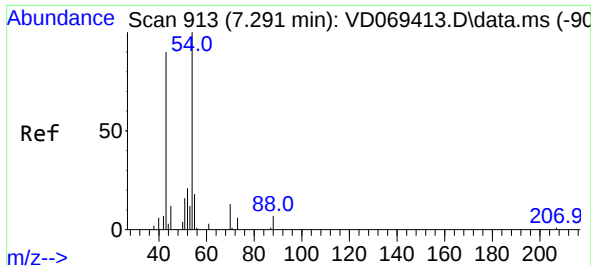
Tgt Ion:113 Resp: 115022
Ion Ratio Lower Upper
113 100
111 104.6 83.0 124.6
192 20.3 15.1 22.7



#36
1,1-Dichloropropene
Concen: 3.68 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion: 75 Resp: 12287
Ion Ratio Lower Upper
75 100
110 10.2 18.4 55.2#
77 1.2 24.9 37.3#





#37

Ethyl Acetate

Concen: 5.44 ug/l

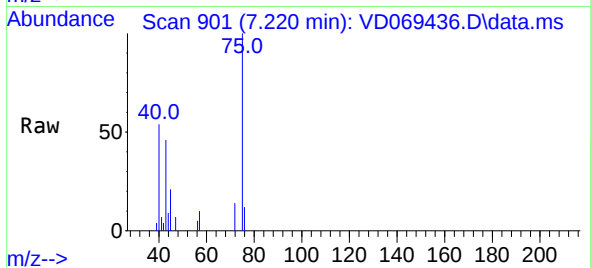
RT: 7.220 min Scan# 901

Delta R.T. -0.071 min

Lab File: VD069436.D

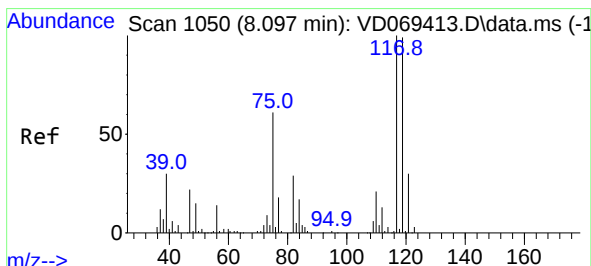
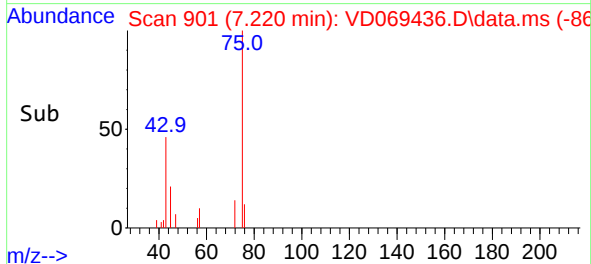
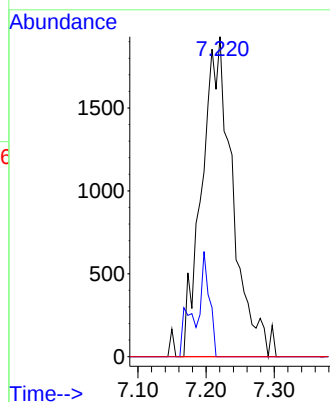
Acq: 14 Jun 2021 19:38

Instrument :
MSVOA_D
ClientSampled :



Tgt Ion: 43 Resp: 6084

Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6#
70	0.0	9.7	14.5#



#38

Carbon Tetrachloride

Concen: 4.45 ug/l

RT: 7.973 min Scan# 1029

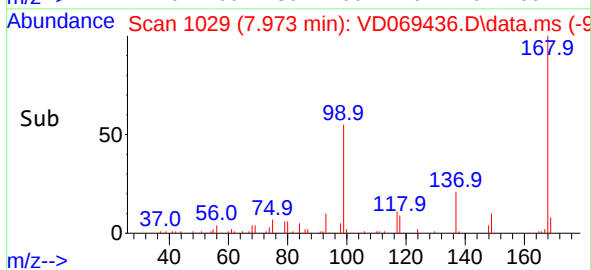
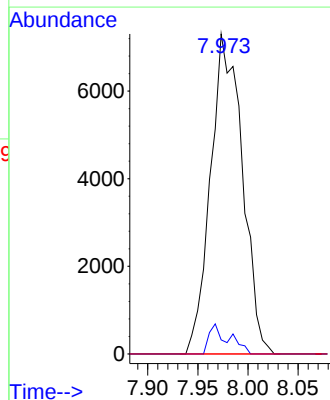
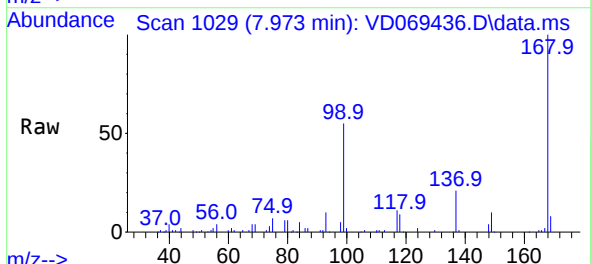
Delta R.T. -0.124 min

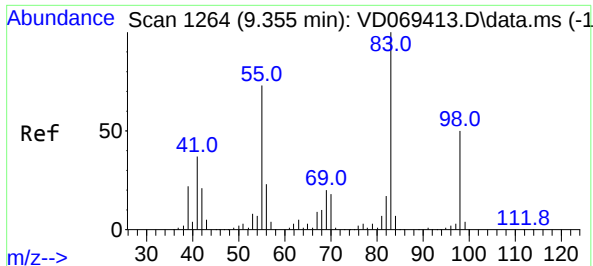
Lab File: VD069436.D

Acq: 14 Jun 2021 19:38

Tgt Ion: 117 Resp: 16112

Ion	Ratio	Lower	Upper
117	100		
119	4.4	79.4	119.2#
121	0.0	26.1	39.1#





#39

Methylcyclohexane

Concen: 6.11 ug/l

RT: 9.356 min Scan# 1264

Delta R.T. 0.001 min

Lab File: VD069436.D

Acq: 14 Jun 2021 19:38

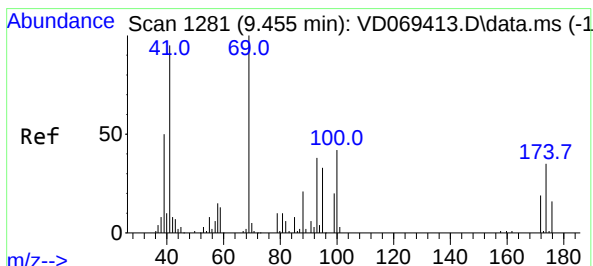
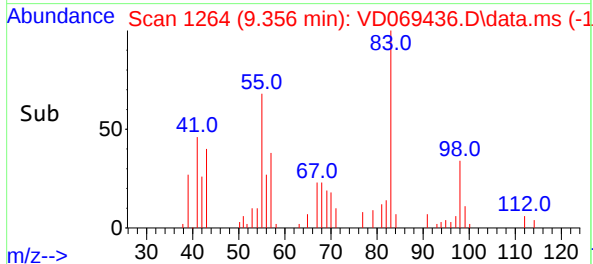
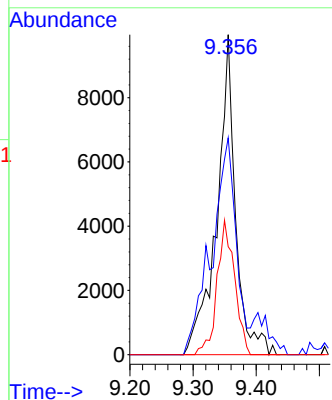
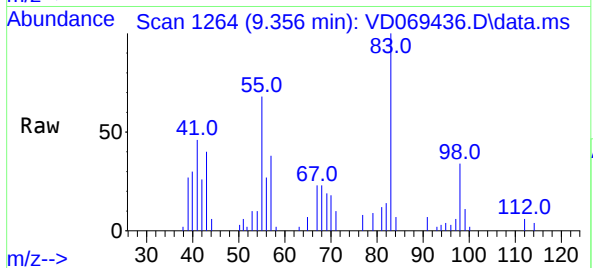
Tgt Ion: 83 Resp: 20550

Ion Ratio Lower Upper

83 100

55 67.7 57.4 86.2

98 33.8 42.2 63.2#



#48

Methyl methacrylate

Concen: 5.07 ug/l

RT: 9.403 min Scan# 1272

Delta R.T. -0.052 min

Lab File: VD069436.D

Acq: 14 Jun 2021 19:38

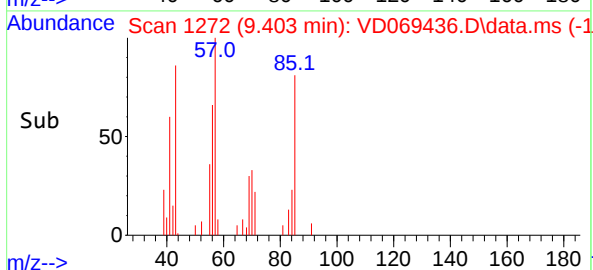
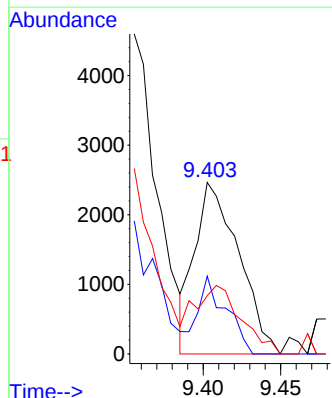
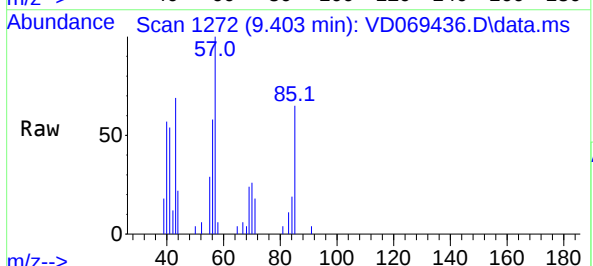
Tgt Ion: 41 Resp: 4873

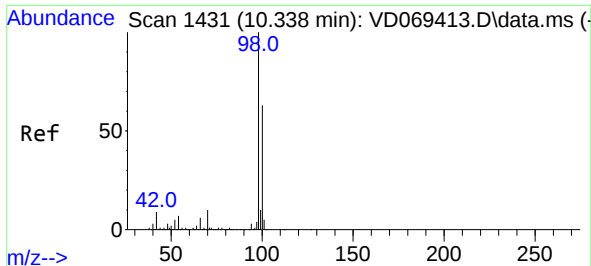
Ion Ratio Lower Upper

41 100

69 27.7 77.6 116.4#

39 42.6 45.3 67.9#

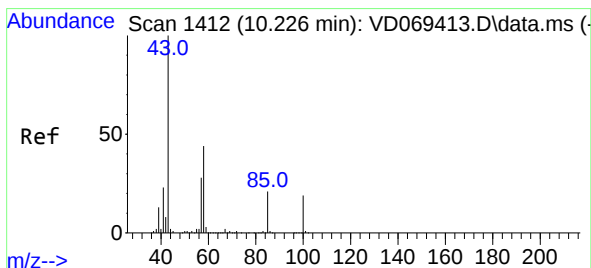
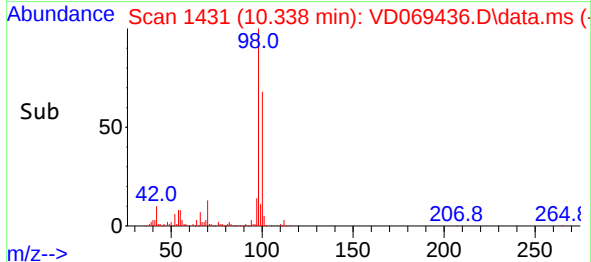
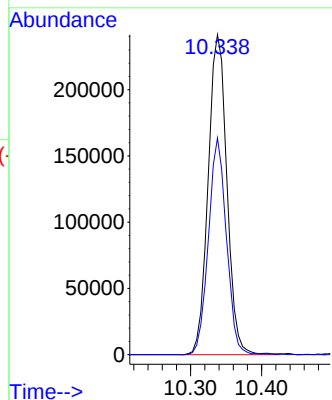
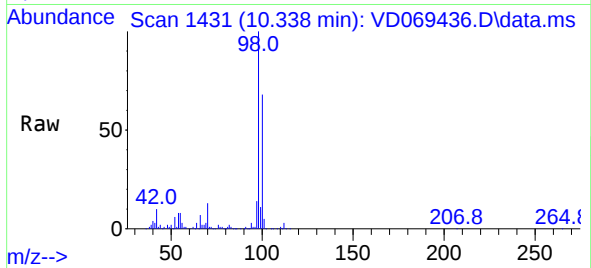




#50
Toluene-d8
Concen: 50.38 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

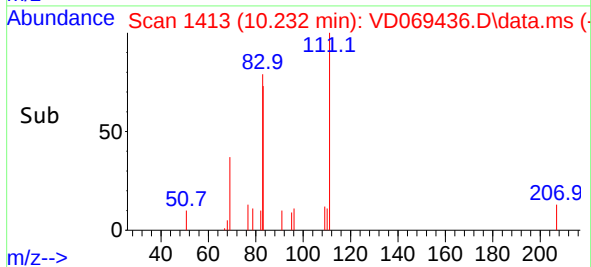
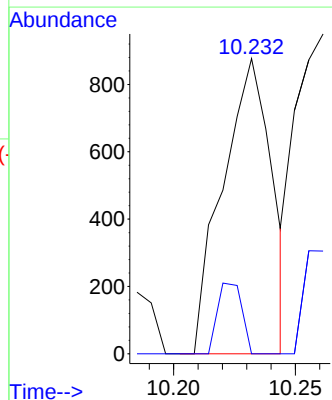
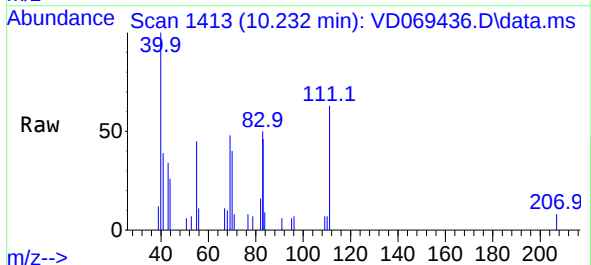
Instrument :
MSVOA_D
ClientSampled :

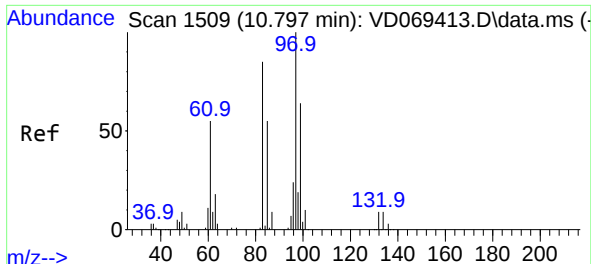
Tgt Ion: 98 Resp: 442916
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.14 ug/l
RT: 10.232 min Scan# 1413
Delta R.T. 0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion: 43 Resp: 1232
Ion Ratio Lower Upper
43 100
58 11.9 35.1 52.7#

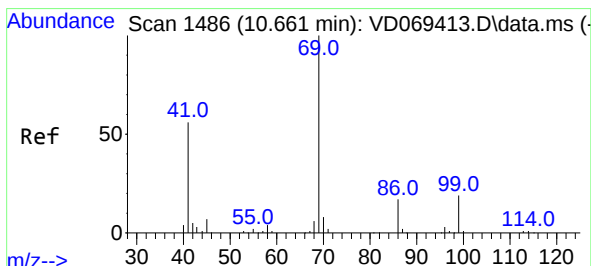
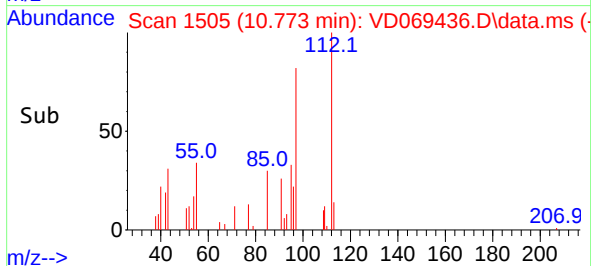
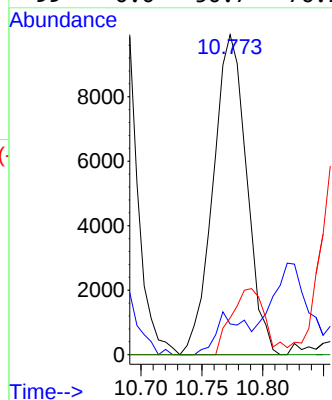
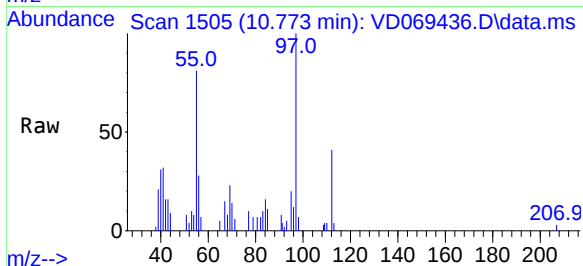




#55
1,1,2-Trichloroethane
Concen: 10.09 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.024 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

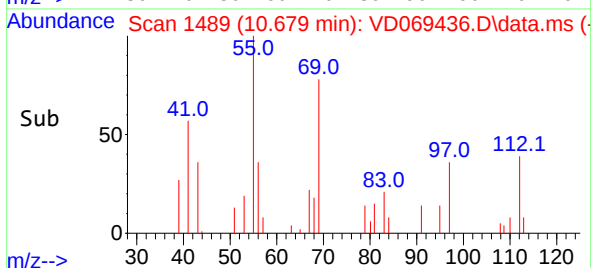
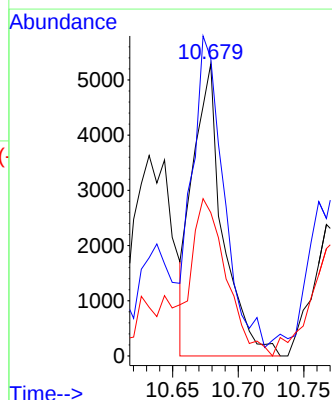
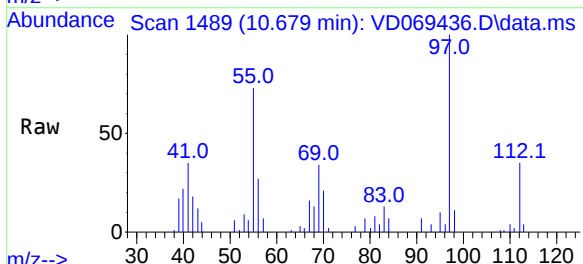
Instrument :
MSVOA_D
ClientSampleId :

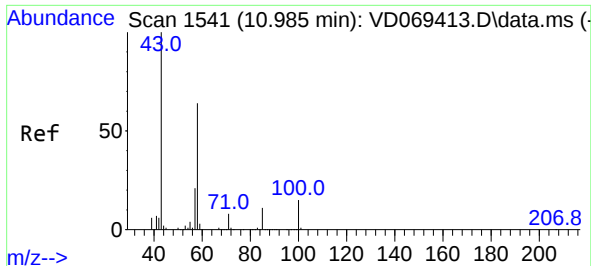
Tgt Ion:	97	Resp:	18974
Ion	Ratio	Lower	Upper
97	100		
83	9.6	69.4	104.0#
85	11.5	44.5	66.7#
99	0.0	50.7	76.1#



#56
Ethyl methacrylate
Concen: 6.54 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.018 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion:	69	Resp:	8458
Ion	Ratio	Lower	Upper
69	100		
41	102.4	45.4	68.2#
39	64.6	21.7	32.5#

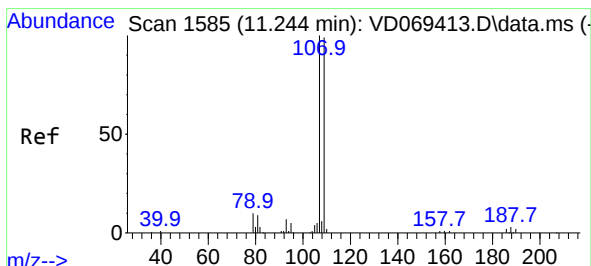
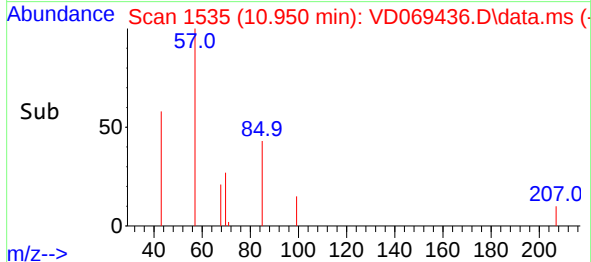
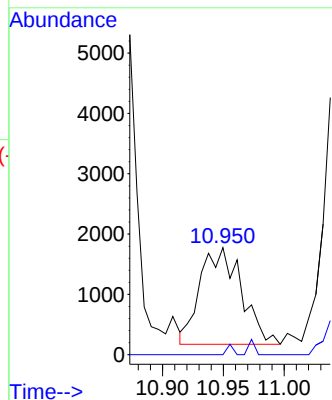
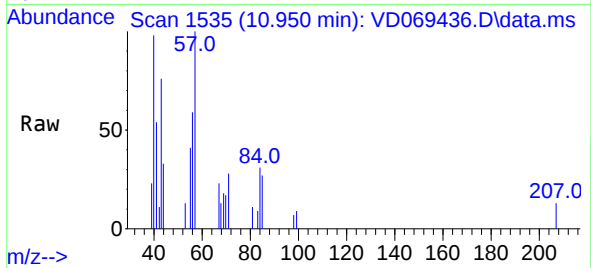




#59
2-Hexanone
Concen: 5.23 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.035 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

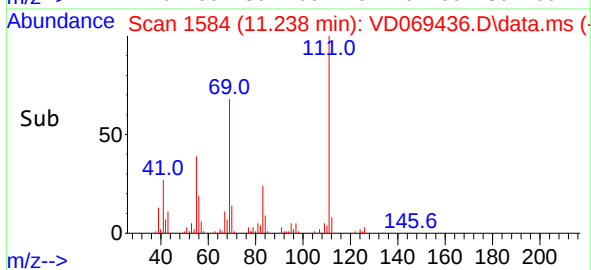
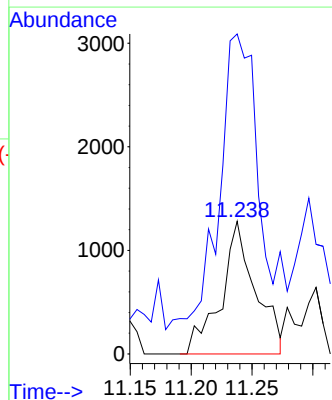
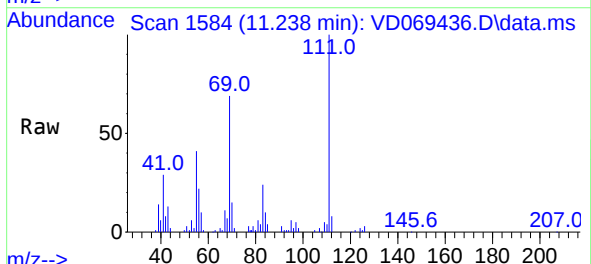
Instrument :
MSVOA_D
ClientSampled :

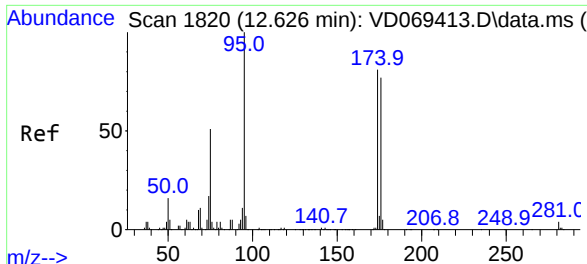
Tgt Ion: 43 Resp: 3766
Ion Ratio Lower Upper
43 100
58 0.0 30.8 92.3#



#61
1,2-Dibromoethane
Concen: 1.40 ug/l
RT: 11.238 min Scan# 1584
Delta R.T. -0.006 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion:107 Resp: 2527
Ion Ratio Lower Upper
107 100
109 224.4 75.9 113.9#



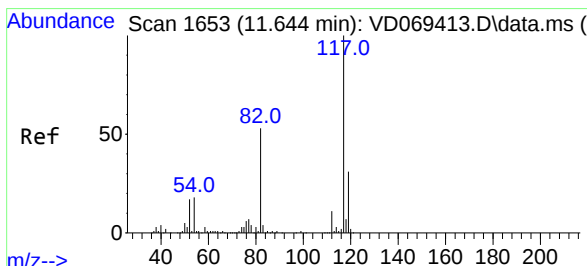
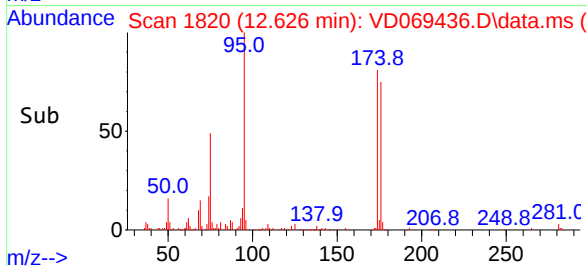
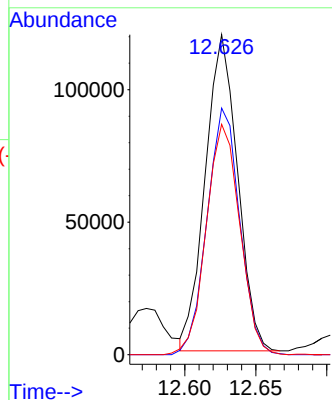
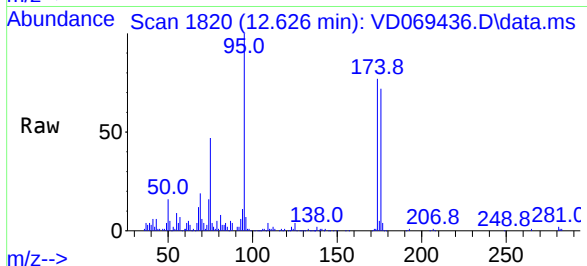


#62
4-Bromofluorobenzene
Concen: 66.93 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 95 Resp: 188803

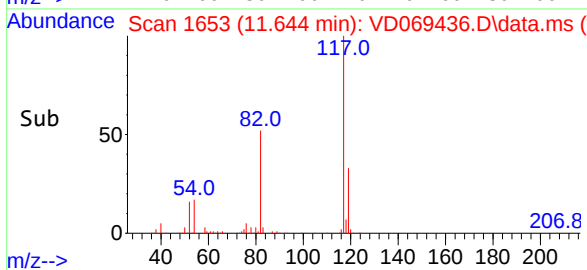
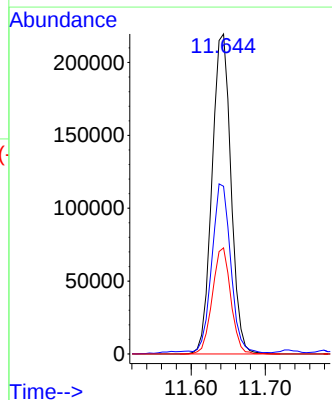
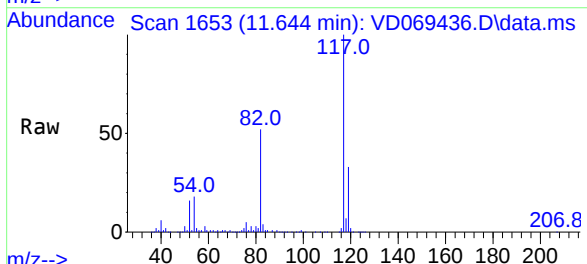
Ion	Ratio	Lower	Upper
95	100		
174	79.0	0.0	162.8
176	75.8	0.0	154.4

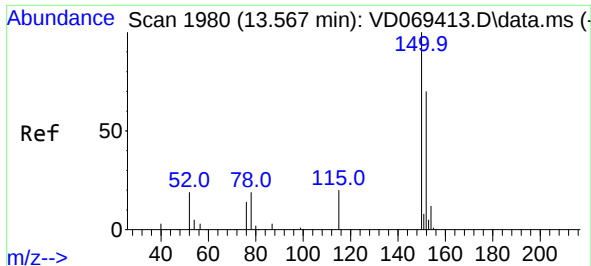


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. -0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion: 117 Resp: 389242

Ion	Ratio	Lower	Upper
117	100		
82	51.6	43.3	64.9
119	33.1	25.3	37.9

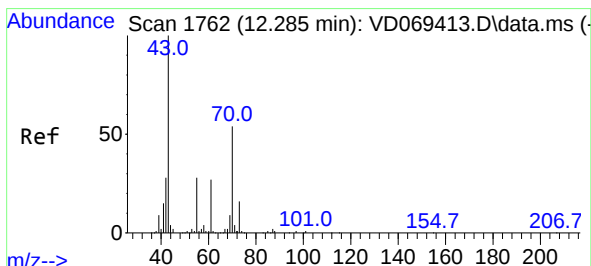
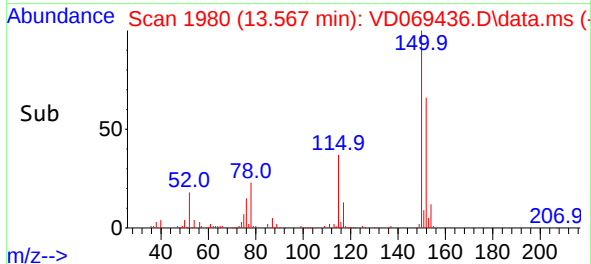
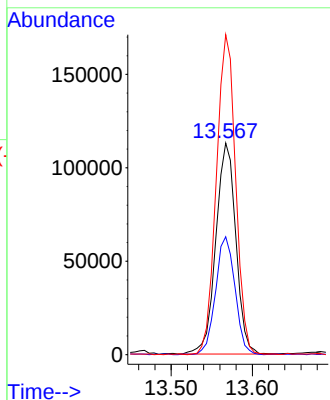
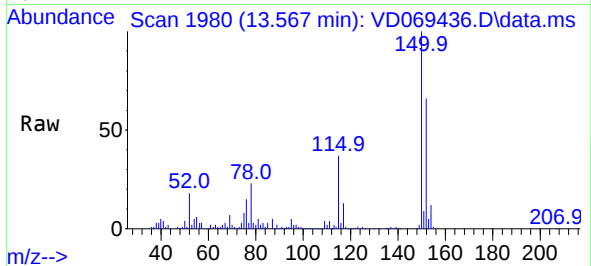




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

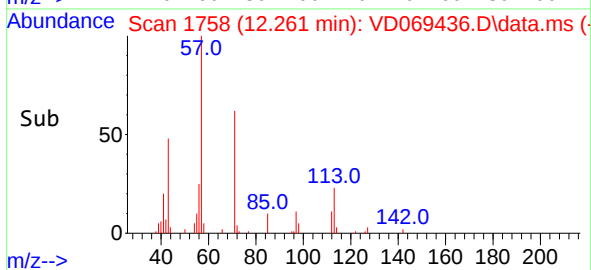
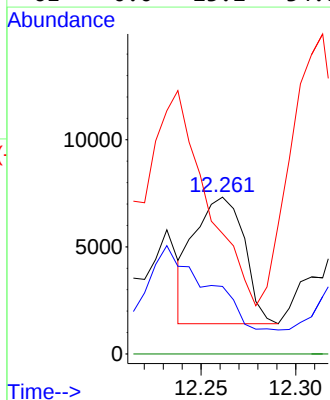
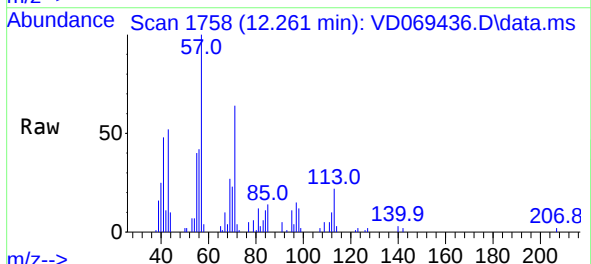
Instrument :
MSVOA_D
ClientSampled :

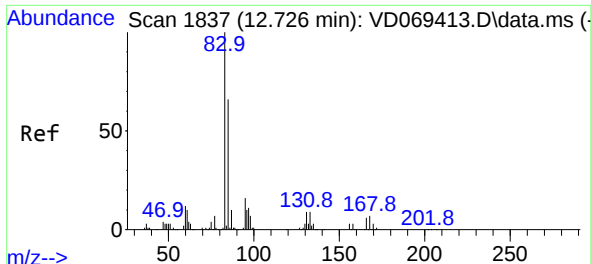
Tgt Ion:152 Resp: 193491
Ion Ratio Lower Upper
152 100
115 54.4 29.4 88.3
150 146.6 0.0 355.0



#74
N-ethyl acetate
Concen: 4.43 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.024 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion: 43 Resp: 10811
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#

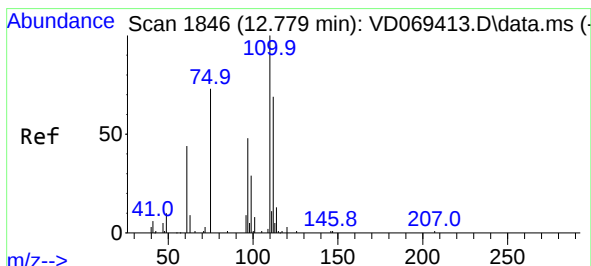
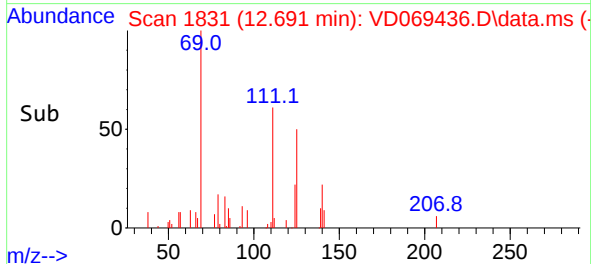
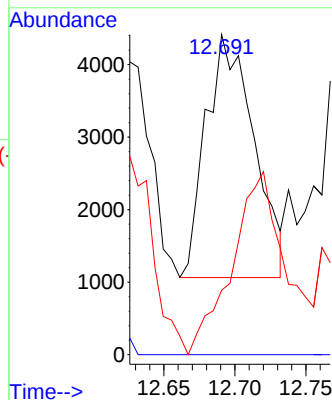
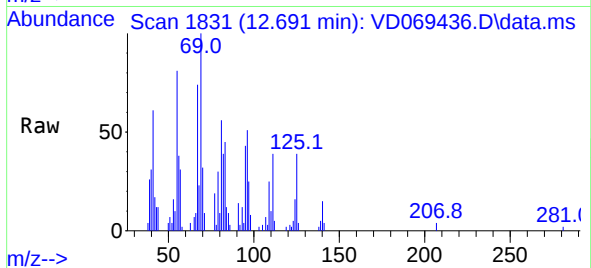




#75
1,1,2,2-Tetrachloroethane
Concen: 3.02 ug/l
RT: 12.691 min Scan# 1831
Delta R.T. -0.035 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

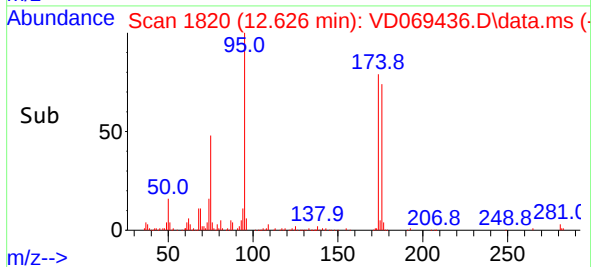
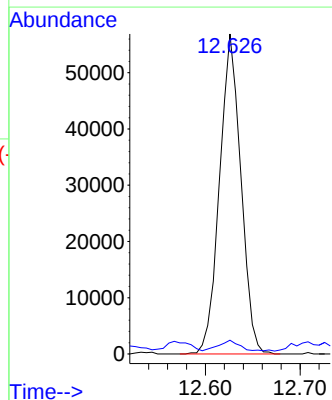
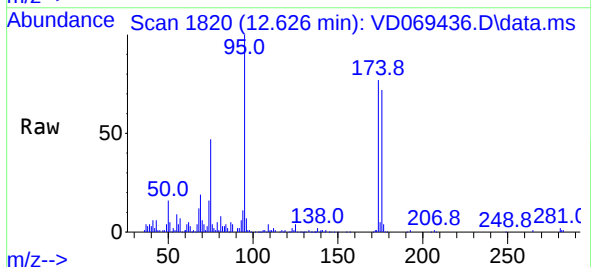
Instrument :
MSVOA_D
ClientSampleId :

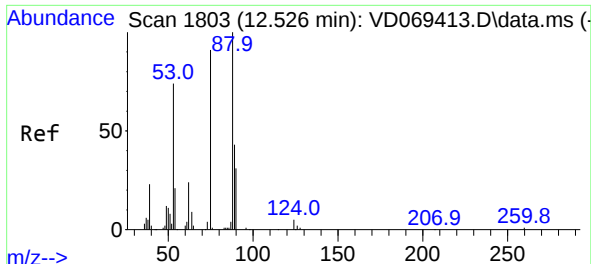
Tgt Ion: 83 Resp: 7881
Ion Ratio Lower Upper
83 100
131 0.0 5.3 16.1#
85 0.0 32.6 98.0#



#76
1,2,3-Trichloropropane
Concen: 45.41 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.153 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion: 75 Resp: 89073
Ion Ratio Lower Upper
75 100
77 3.0 183.8 551.2#

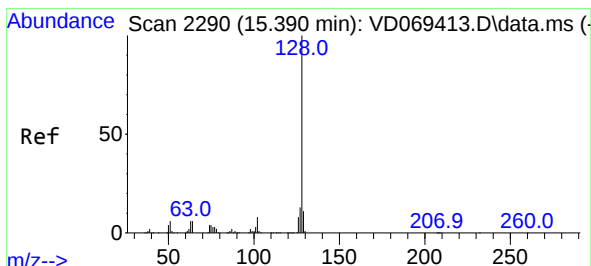
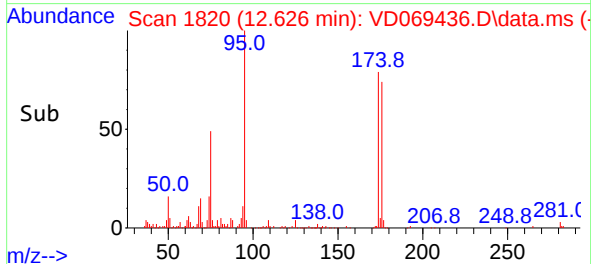
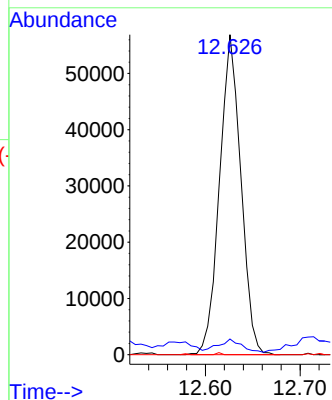
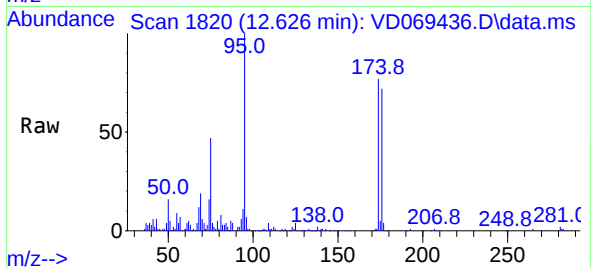




#81
trans-1,4-Dichloro-2-butene
Concen: 121.13 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.100 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:	75	Resp:	89073
Ion	Ratio	Lower	Upper
75	100		
53	4.4	62.6	94.0#
89	0.1	35.6	53.4#



#95
Naphthalene
Concen: 3.75 ug/l
RT: 15.391 min Scan# 2290
Delta R.T. 0.001 min
Lab File: VD069436.D
Acq: 14 Jun 2021 19:38

Tgt Ion:	128	Resp:	1308
Ion	Ratio	Lower	Upper
128	100		
127	17.4	10.4	15.6#
129	0.0	8.8	13.2#

