

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122021\
 Data File : VD071394.D
 Acq On : 20 Dec 2021 17:51
 Operator : VA/SY
 Sample : M5044-11
 Misc : 6.31G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 20 20:54:38 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

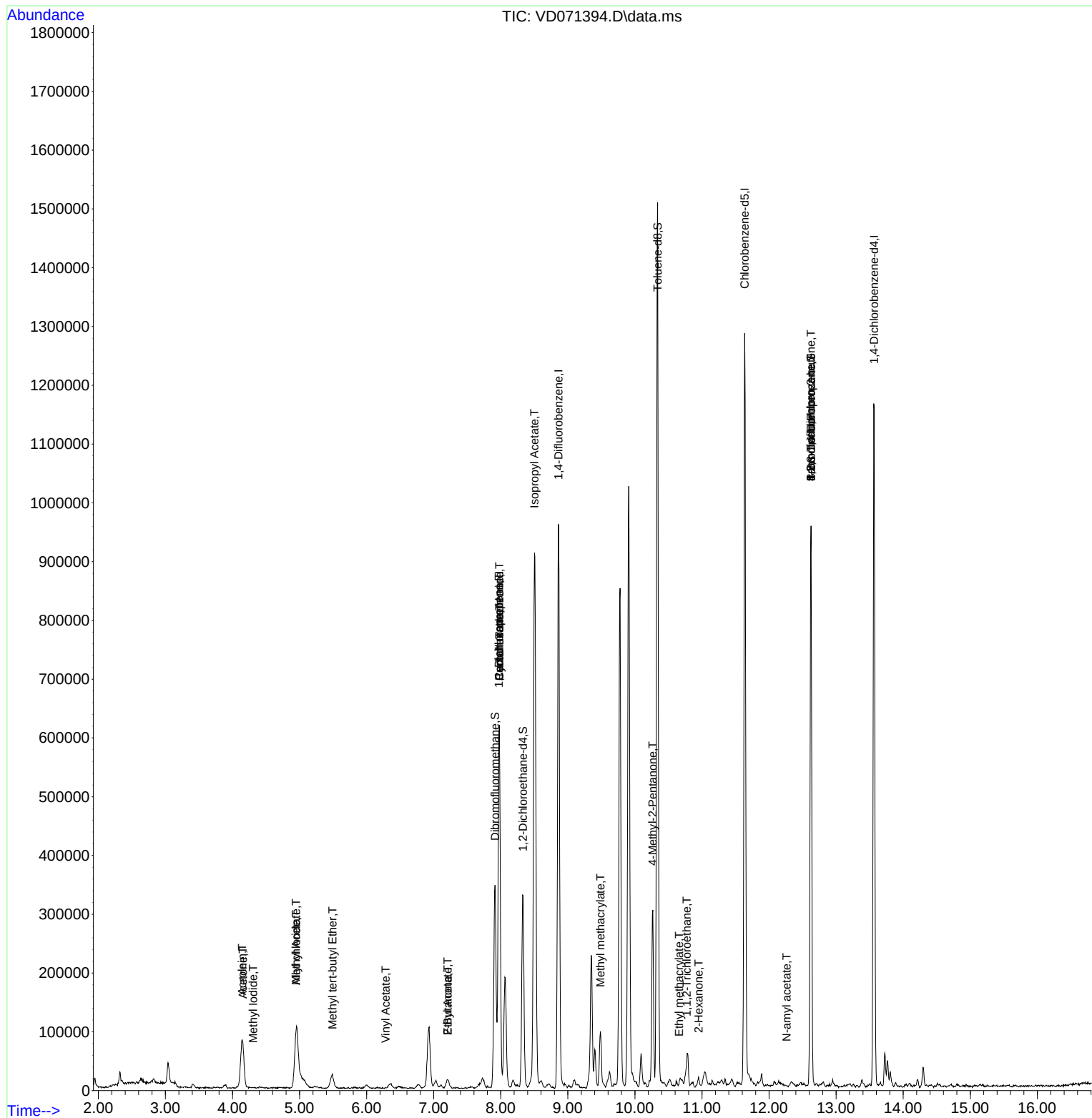
Internal Standards						
1) Pentafluorobenzene	7.979	168	431284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	752250	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	667329	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	284962	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	263067	51.983	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.960%			
35) Dibromofluoromethane	7.914	113	243032	50.735	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.460%			
50) Toluene-d8	10.338	98	968740	53.142	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 106.280%			
62) 4-Bromofluorobenzene	12.626	95	297403	47.065	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 94.140%			
Target Compounds						Qvalue
10) Methyl Iodide	4.309	142	327	4.620	ug/l #	40
11) Tert butyl alcohol	5.220	59	3154	Below Cal	#	71
13) Acrolein	4.144	56	16633	48.096	ug/l #	73
14) Allyl chloride	4.950	41	42005	5.523	ug/l #	71
16) Acetone	4.156	43	76428	80.665	ug/l #	64
18) Methyl Acetate	4.950	43	83975	22.490	ug/l #	51
19) Methyl tert-butyl Ether	5.491	73	21482	2.189	ug/l #	34
23) Vinyl Acetate	6.285	43	79	27.227	ug/l #	72
25) 2-Butanone	7.208	43	8582	33.261	ug/l #	64
31) Cyclohexane	7.979	56	17513	2.034	ug/l #	34
36) 1,1-Dichloropropene	7.973	75	41828	5.949	ug/l #	49
37) Ethyl Acetate	7.208	43	8582	2.826	ug/l #	73
38) Carbon Tetrachloride	7.979	117	47535	6.859	ug/l #	16
41) Methacrylonitrile	7.520	41	237	Below Cal	#	21
43) Isopropyl Acetate	8.503	43	197230	31.654	ug/l #	47
48) Methyl methacrylate	9.485	41	27902	9.386	ug/l #	36
51) 4-Methyl-2-Pentanone	10.267	43	38276	40.458	ug/l #	75
55) 1,1,2-Trichloroethane	10.773	97	4037	1.181	ug/l #	12
56) Ethyl methacrylate	10.661	69	2610	6.437	ug/l #	35
59) 2-Hexanone	10.949	43	6433	36.722	ug/l #	24
71) Bromoform	12.626	173	2809	1.199	ug/l #	1
74) N-amyl acetate	12.261	43	768	5.822	ug/l #	63
76) 1,2,3-Trichloropropane	12.626	75	168443	62.042	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	168443	134.129	ug/l #	19

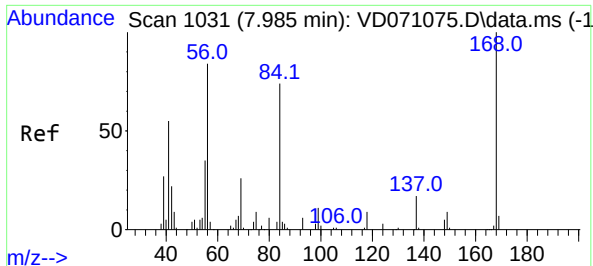
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
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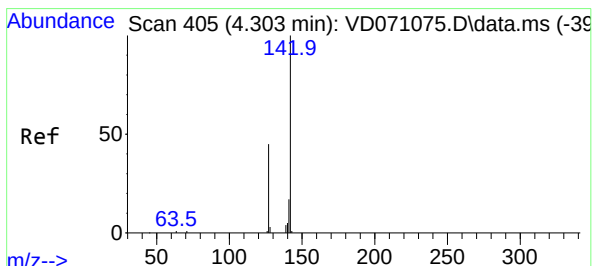
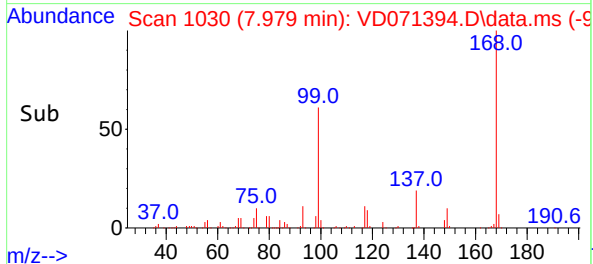
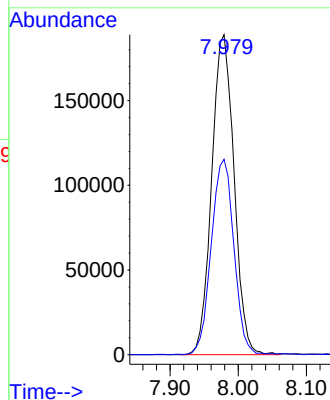
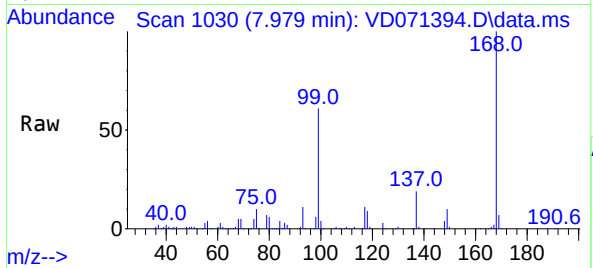




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

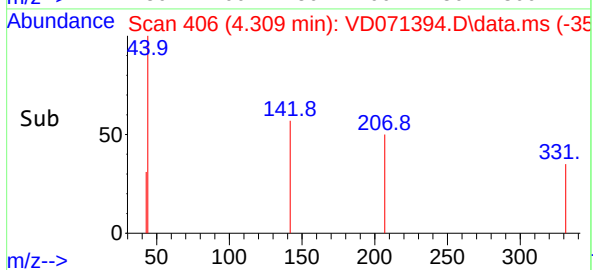
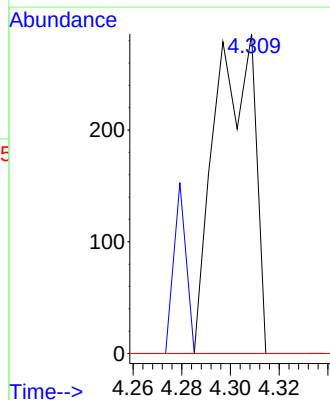
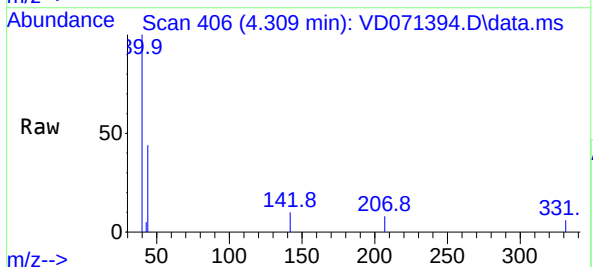
Instrument :
MSVOA_D
ClientSampleId :

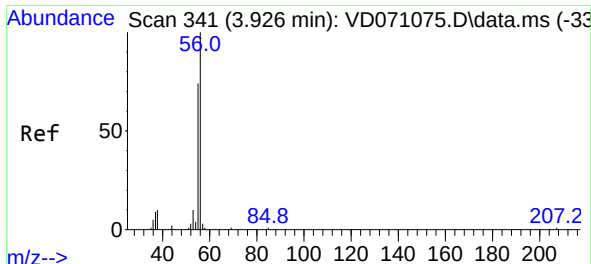
Tgt Ion:168 Resp: 431284
Ion Ratio Lower Upper
168 100
99 61.0 46.6 69.8



#10
Methyl Iodide
Concen: 4.620 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.006 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Tgt Ion:142 Resp: 327
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

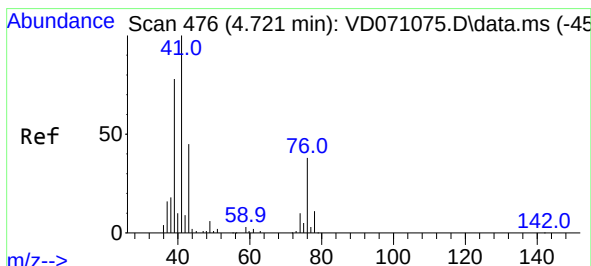
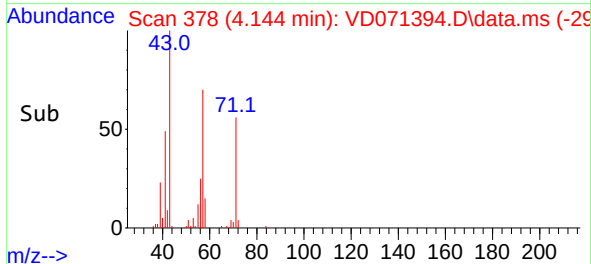
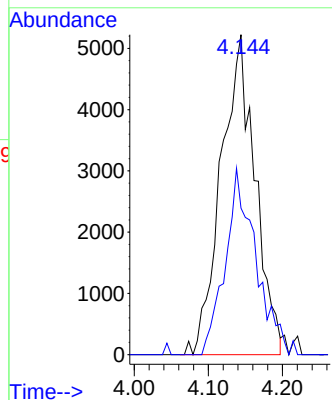
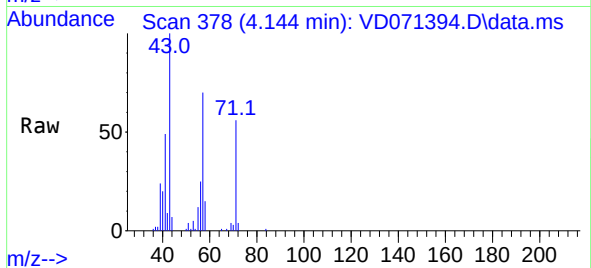




#13
Acrolein
Concen: 48.096 ug/l
RT: 4.144 min Scan# 31
Delta R.T. 0.218 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

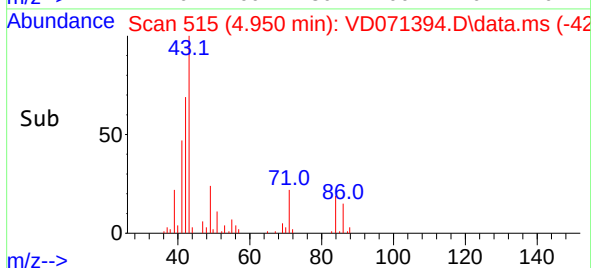
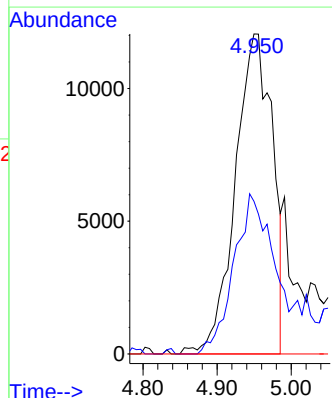
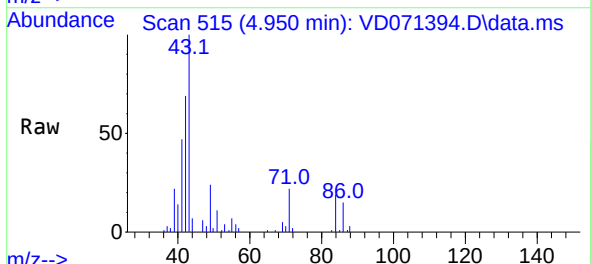
Instrument :
MSVOA_D
ClientSampleId :

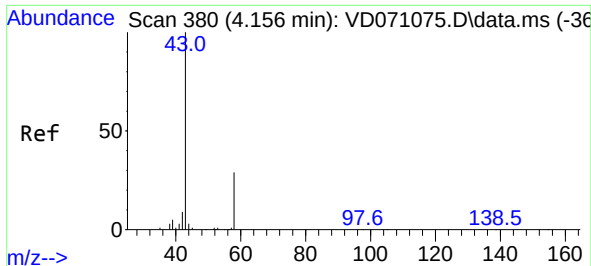
Tgt Ion: 56 Resp: 16633
Ion Ratio Lower Upper
56 100
55 50.4 58.6 87.8#



#14
Allyl chloride
Concen: 5.523 ug/l
RT: 4.950 min Scan# 515
Delta R.T. 0.229 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Tgt Ion: 41 Resp: 42005
Ion Ratio Lower Upper
41 100
39 51.7 45.6 68.4
76 0.0 30.2 45.4#

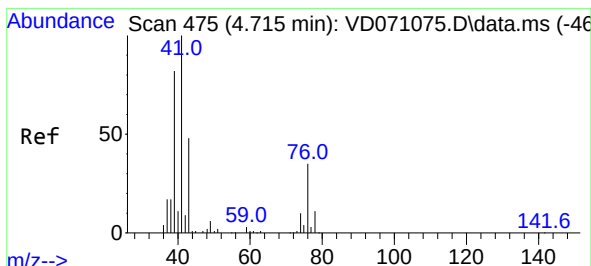
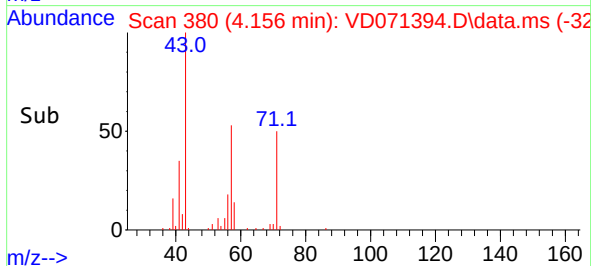
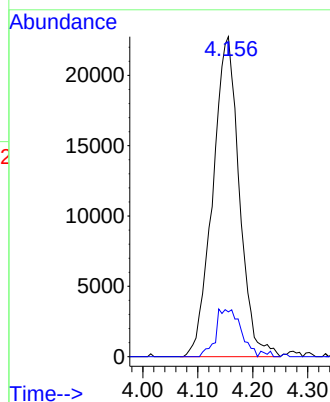
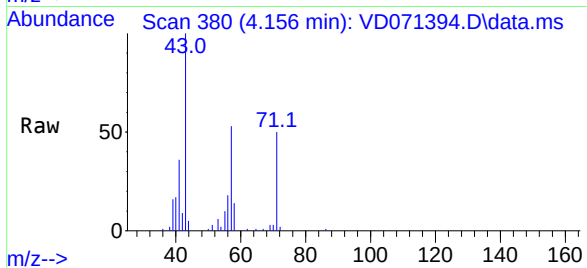




#16
Acetone
Concen: 80.665 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

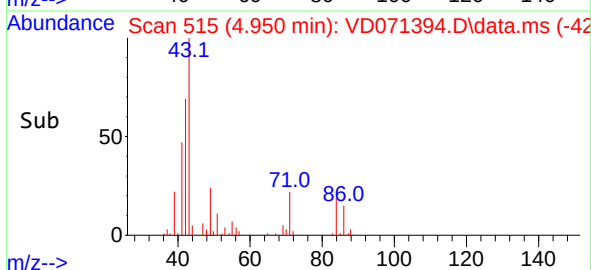
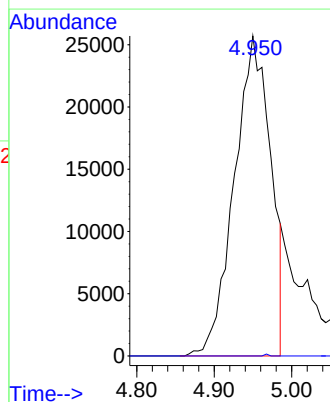
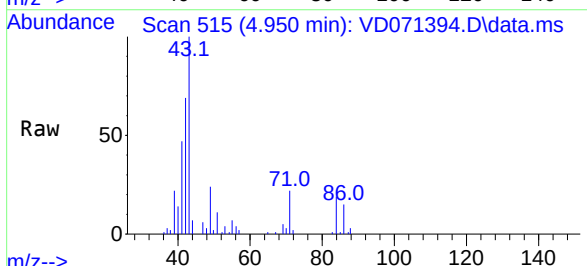
Instrument :
MSVOA_D
ClientSampleId :

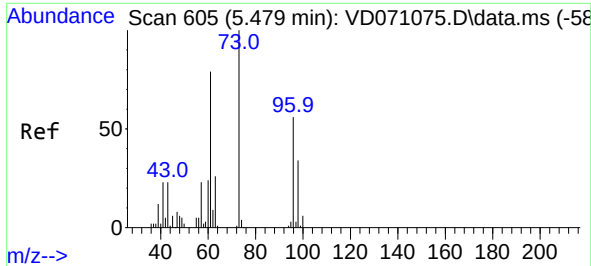
Tgt Ion: 43 Resp: 76428
Ion Ratio Lower Upper
43 100
58 14.0 27.8 41.8#



#18
Methyl Acetate
Concen: 22.490 ug/l
RT: 4.950 min Scan# 515
Delta R.T. 0.235 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Tgt Ion: 43 Resp: 83975
Ion Ratio Lower Upper
43 100
74 0.1 19.3 28.9#

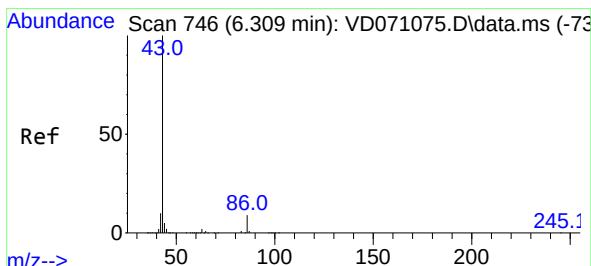
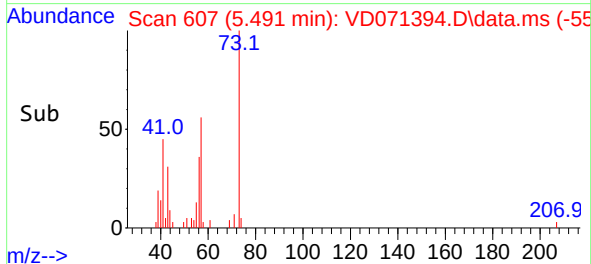
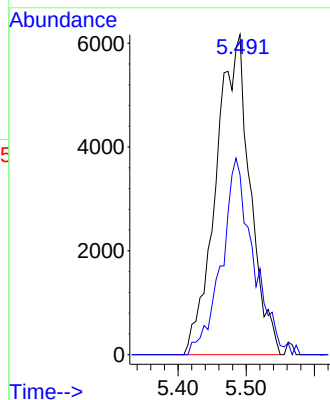
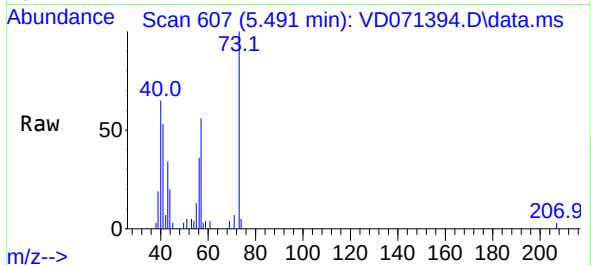




#19
Methyl tert-butyl Ether
Concen: 2.189 ug/l
RT: 5.491 min Scan# 60
Delta R.T. 0.012 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

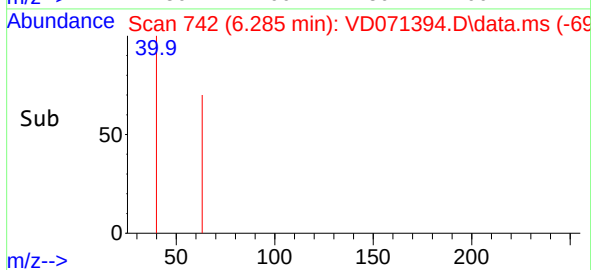
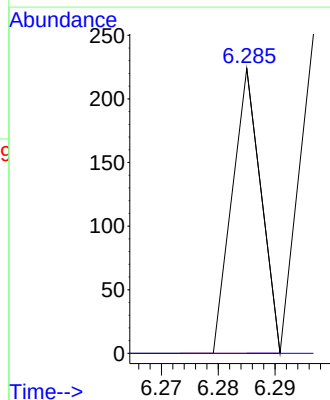
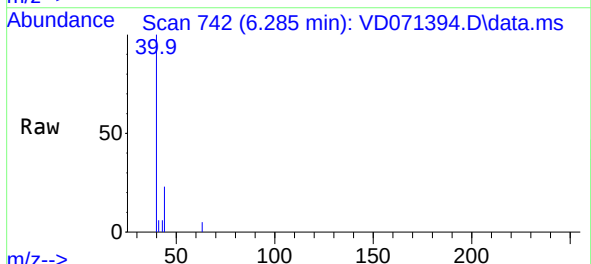
Instrument :
MSVOA_D
ClientSampleId :

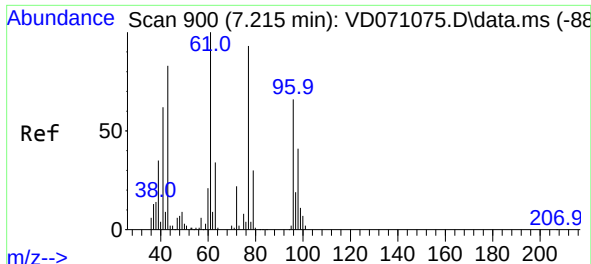
Tgt Ion: 73 Resp: 21482
Ion Ratio Lower Upper
73 100
57 56.2 18.9 28.3#



#23
Vinyl Acetate
Concen: 27.227 ug/l
RT: 6.285 min Scan# 742
Delta R.T. -0.024 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Tgt Ion: 43 Resp: 79
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#





#25

2-Butanone

Concen: 33.261 ug/l

RT: 7.208 min Scan# 899

Delta R.T. -0.007 min

Lab File: VD071394.D

Acq: 20 Dec 2021 17:51

Instrument :

MSVOA_D

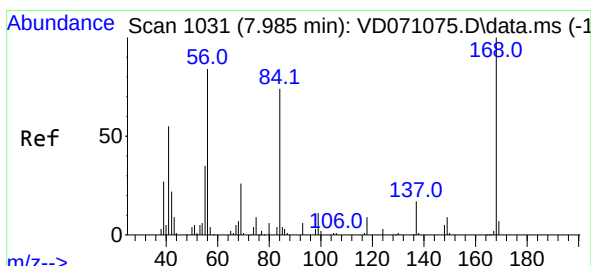
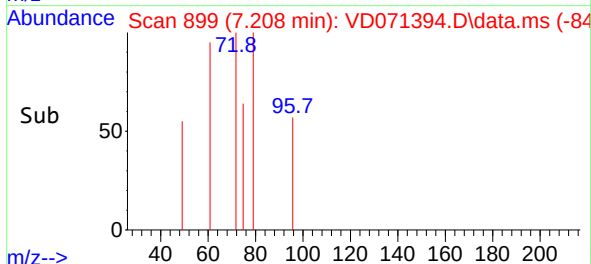
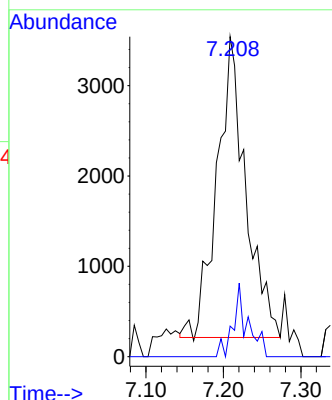
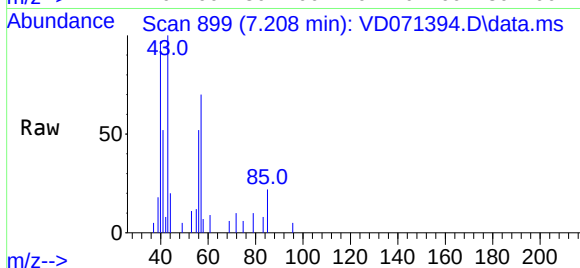
ClientSampleId :

Tgt Ion: 43 Resp: 8582

Ion Ratio Lower Upper

43 100

72 10.2 23.8 35.6#



#31

Cyclohexane

Concen: 2.034 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VD071394.D

Acq: 20 Dec 2021 17:51

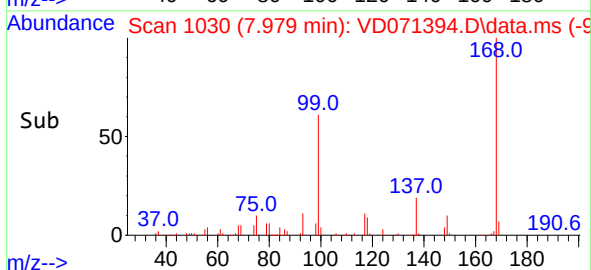
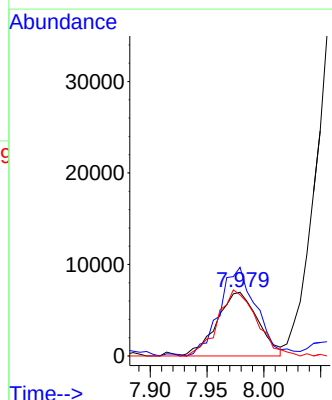
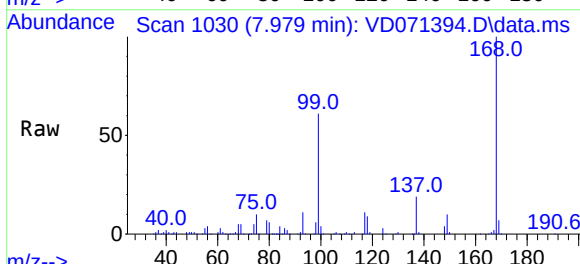
Tgt Ion: 56 Resp: 17513

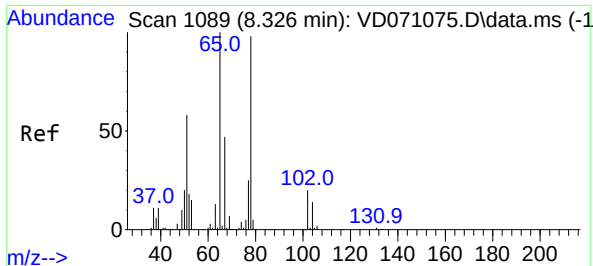
Ion Ratio Lower Upper

56 100

69 137.1 25.9 38.9#

84 95.9 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 51.983 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD071394.D

Acq: 20 Dec 2021 17:51

Instrument :

MSVOA_D

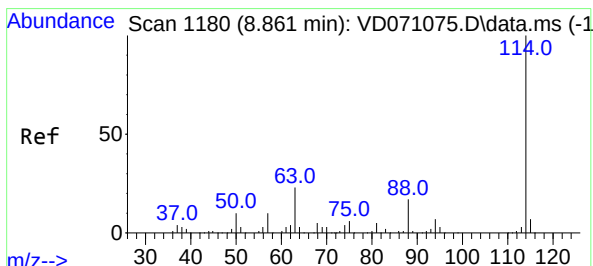
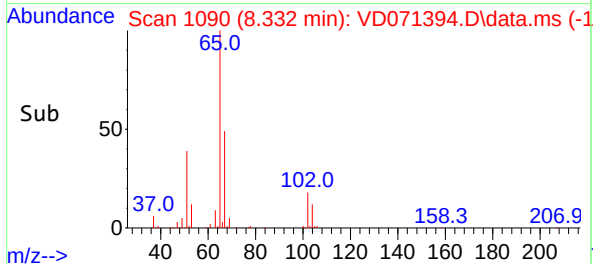
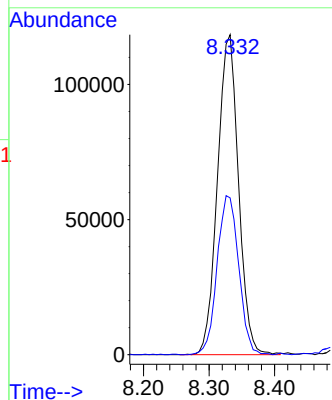
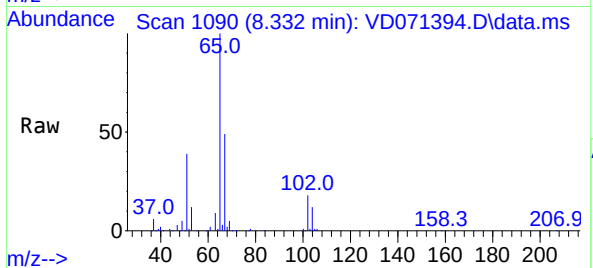
ClientSampleId :

Tgt Ion: 65 Resp: 263067

Ion Ratio Lower Upper

65 100

67 51.1 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071394.D

Acq: 20 Dec 2021 17:51

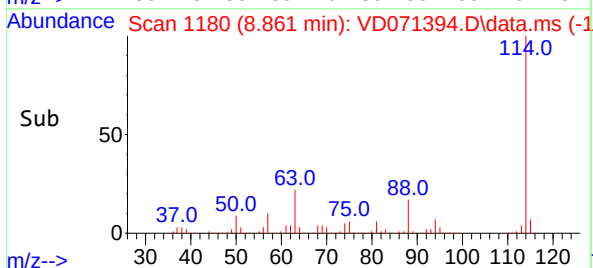
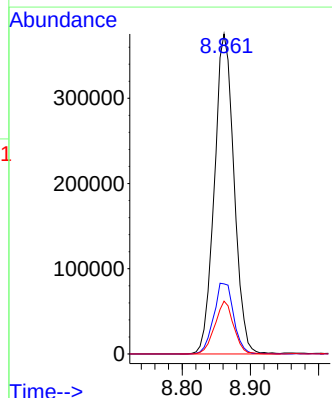
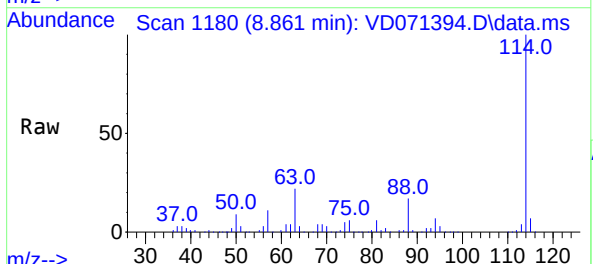
Tgt Ion: 114 Resp: 752250

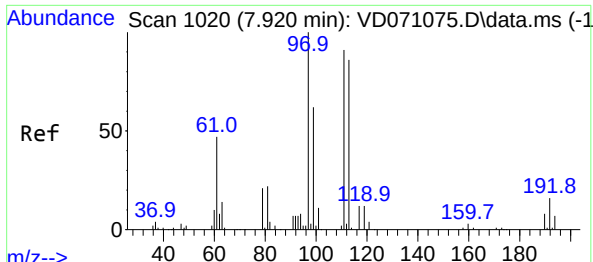
Ion Ratio Lower Upper

114 100

63 21.9 0.0 41.8

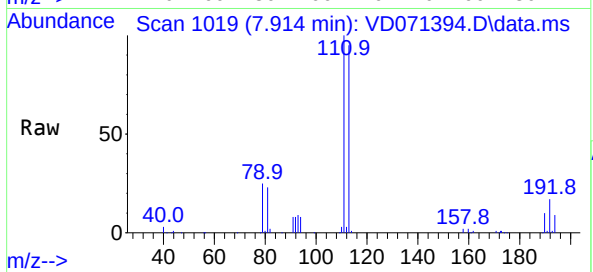
88 16.5 0.0 32.8



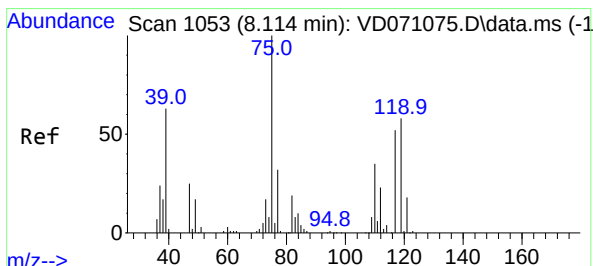
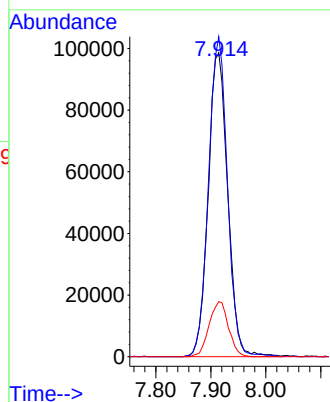
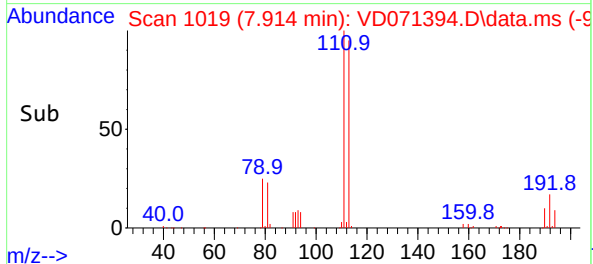


#35
Dibromofluoromethane
Concen: 50.735 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

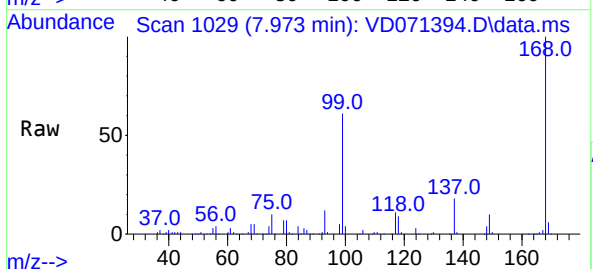
Instrument :
MSVOA_D
ClientSampleId :



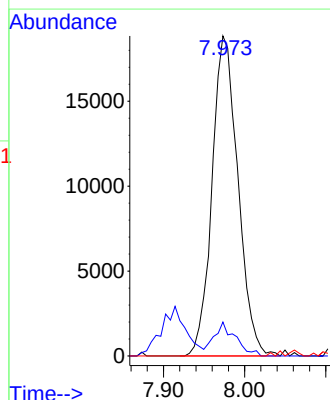
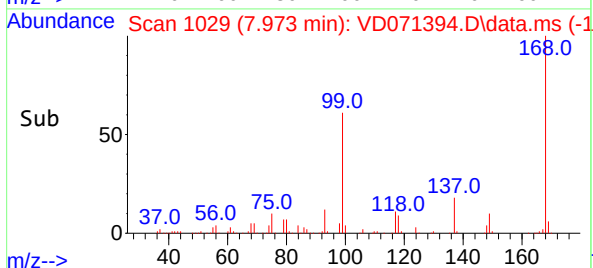
Tgt Ion:113 Resp: 243032
Ion Ratio Lower Upper
113 100
111 102.1 82.0 123.0
192 18.0 15.2 22.8

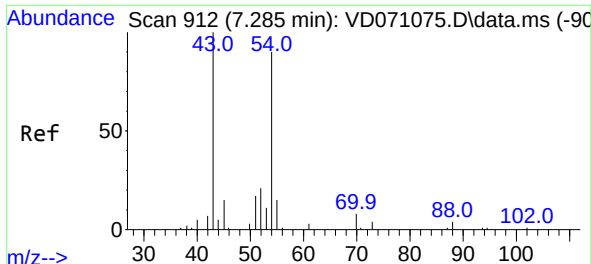


#36
1,1-Dichloropropene
Concen: 5.949 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.141 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51



Tgt Ion: 75 Resp: 41828
Ion Ratio Lower Upper
75 100
110 8.7 17.8 53.4#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 2.826 ug/l

RT: 7.208 min Scan# 899

Delta R.T. -0.077 min

Lab File: VD071394.D

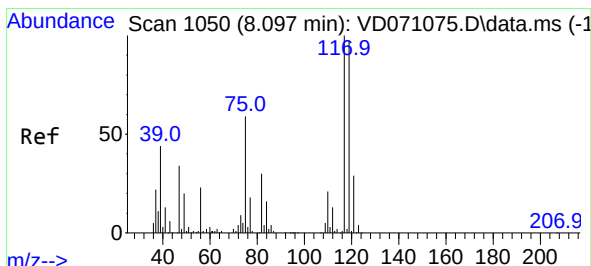
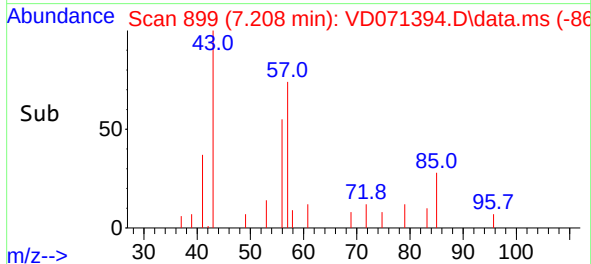
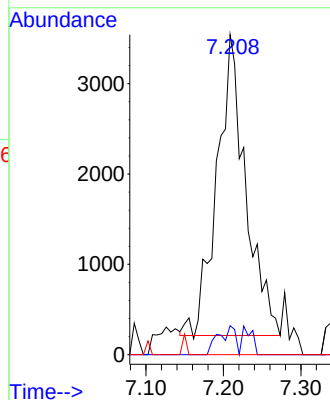
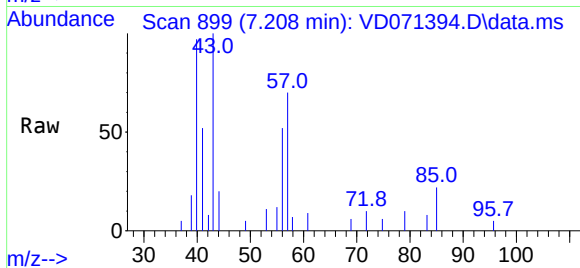
Acq: 20 Dec 2021 17:51

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	43	Resp:	8582
Ion	Ratio	Lower	Upper
43	100		
61	5.5	13.0	19.6#
70	0.0	8.7	13.1#



#38

Carbon Tetrachloride

Concen: 6.859 ug/l

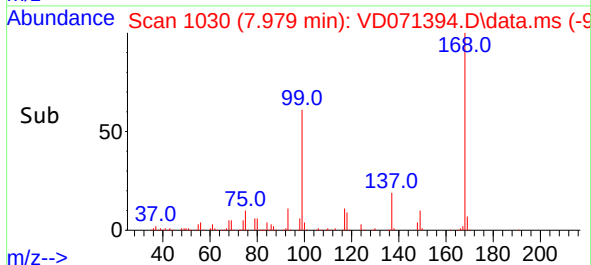
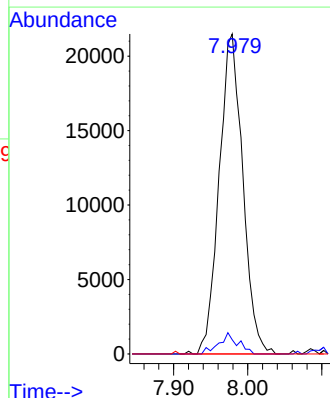
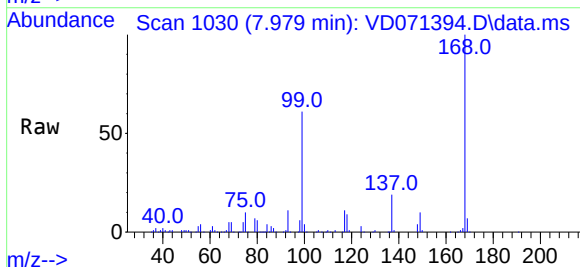
RT: 7.979 min Scan# 1030

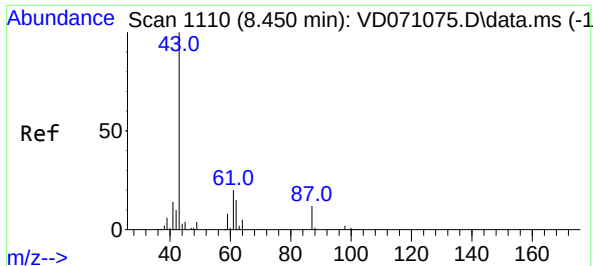
Delta R.T. -0.118 min

Lab File: VD071394.D

Acq: 20 Dec 2021 17:51

Tgt Ion:	117	Resp:	47535
Ion	Ratio	Lower	Upper
117	100		
119	4.5	75.8	113.6#
121	0.0	23.6	35.4#





#43

Isopropyl Acetate

Concen: 31.654 ug/l

RT: 8.503 min Scan# 1119

Delta R.T. 0.053 min

Lab File: VD071394.D

Acq: 20 Dec 2021 17:51

Instrument :

MSVOA_D

ClientSampleId :

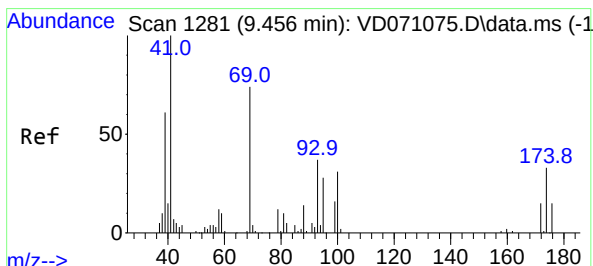
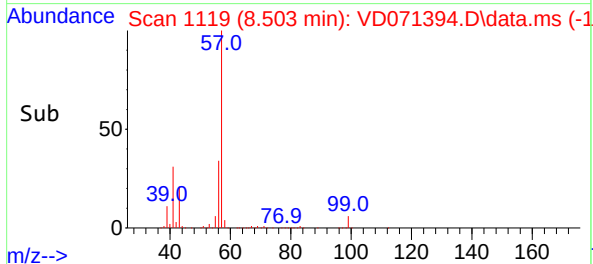
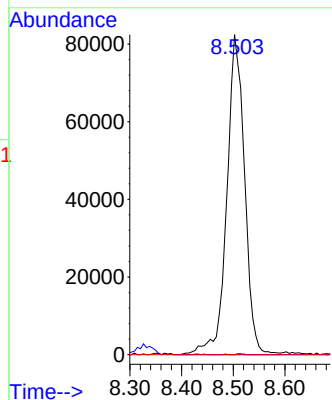
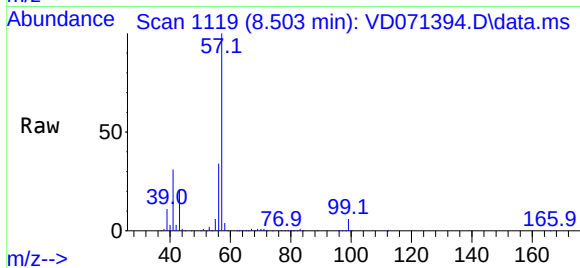
Tgt Ion: 43 Resp: 197230

Ion Ratio Lower Upper

43 100

61 0.1 28.2 42.4#

87 0.0 10.7 16.1#



#48

Methyl methacrylate

Concen: 9.386 ug/l

RT: 9.485 min Scan# 1286

Delta R.T. 0.029 min

Lab File: VD071394.D

Acq: 20 Dec 2021 17:51

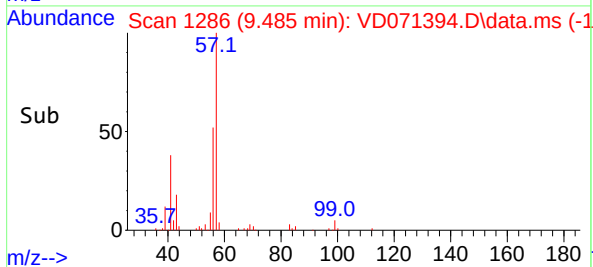
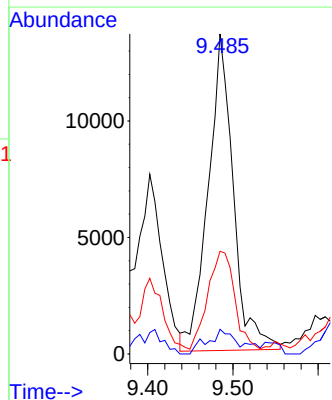
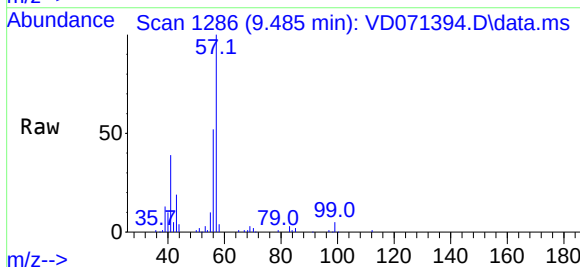
Tgt Ion: 41 Resp: 27902

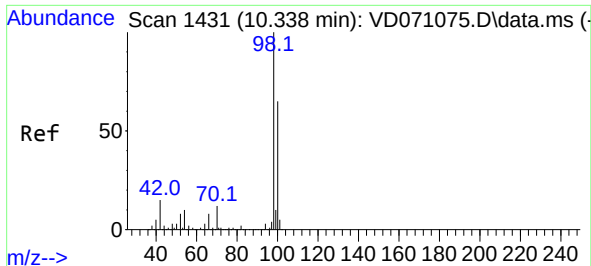
Ion Ratio Lower Upper

41 100

69 6.0 69.8 104.6#

39 33.0 35.6 53.4#

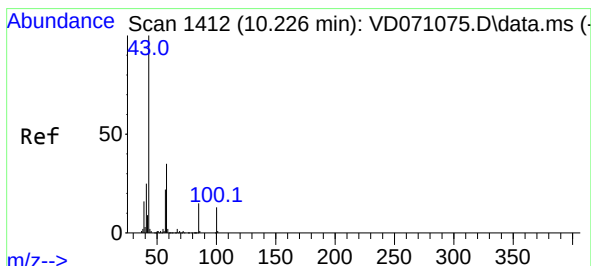
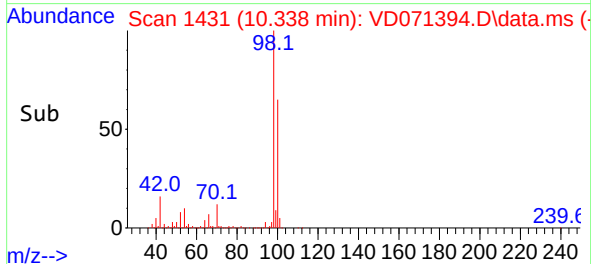
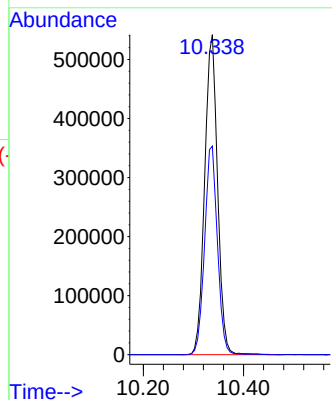
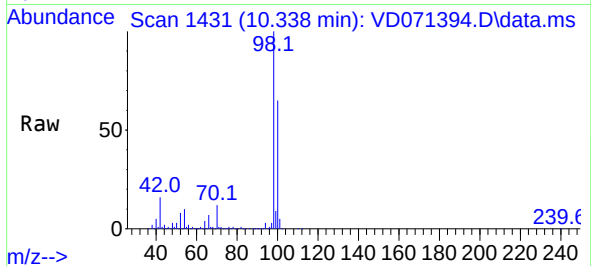




#50
Toluene-d8
Concen: 53.142 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

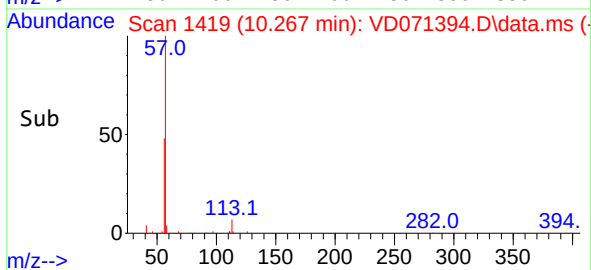
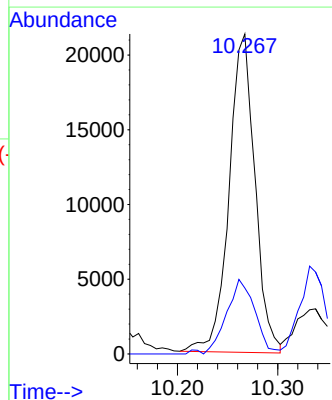
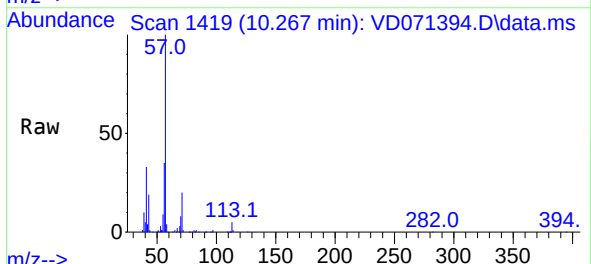
Instrument :
MSVOA_D
ClientSampleId :

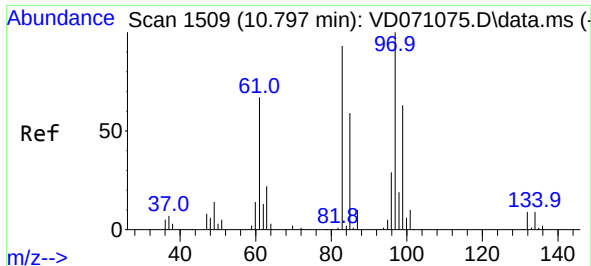
Tgt Ion: 98 Resp: 968740
Ion Ratio Lower Upper
98 100
100 65.0 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 40.458 ug/l
RT: 10.267 min Scan# 1419
Delta R.T. 0.041 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Tgt Ion: 43 Resp: 38276
Ion Ratio Lower Upper
43 100
58 25.9 33.1 49.7#

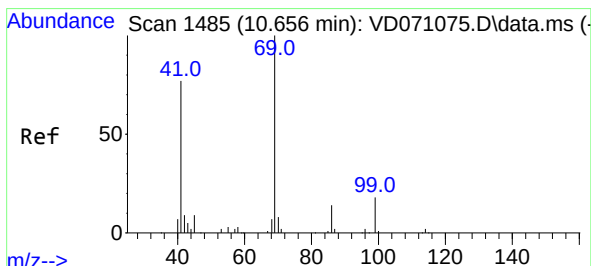
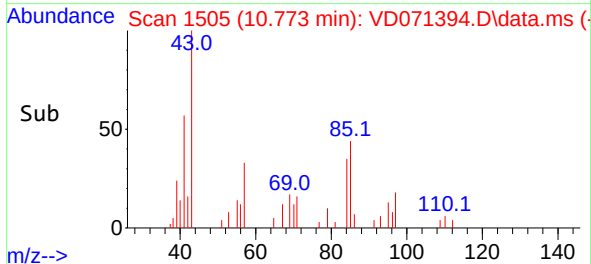
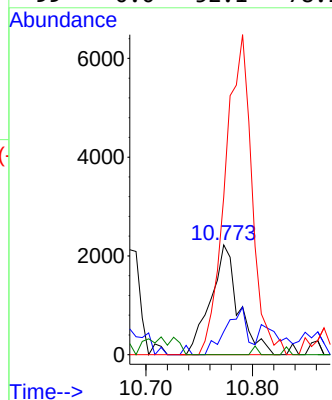
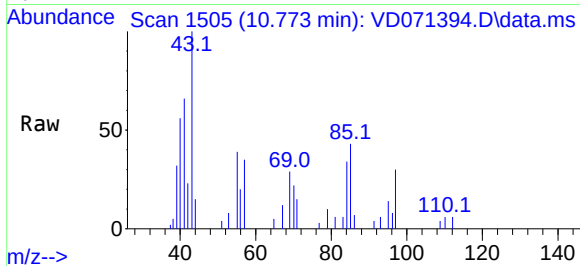




#55
1,1,2-Trichloroethane
Concen: 1.181 ug/l
RT: 10.773 min Scan# 1509
Delta R.T. -0.024 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

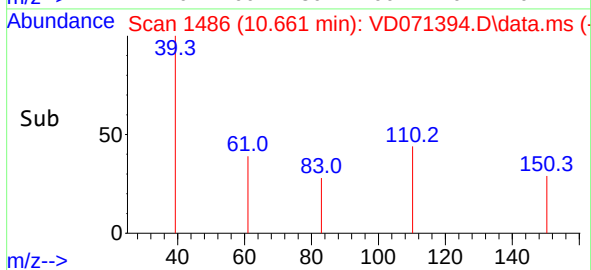
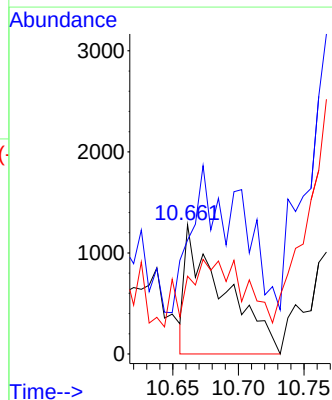
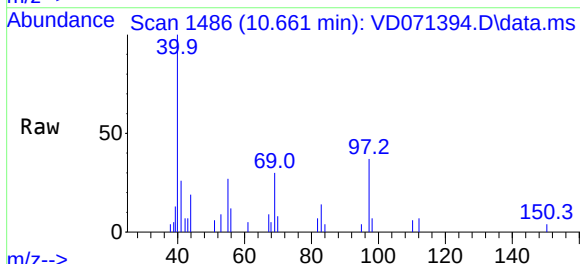
Instrument :
MSVOA_D
ClientSampleId :

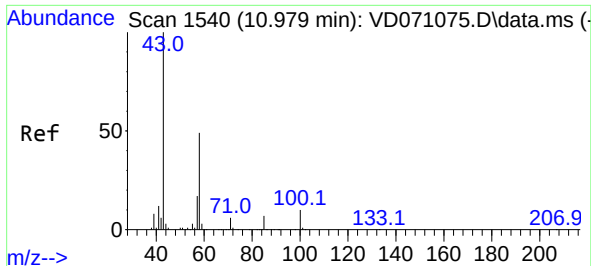
Tgt Ion: 97 Resp: 4037
Ion Ratio Lower Upper
97 100
83 21.0 65.2 97.8#
85 143.5 43.4 65.0#
99 0.0 52.1 78.1#



#56
Ethyl methacrylate
Concen: 6.437 ug/l
RT: 10.661 min Scan# 1486
Delta R.T. 0.005 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

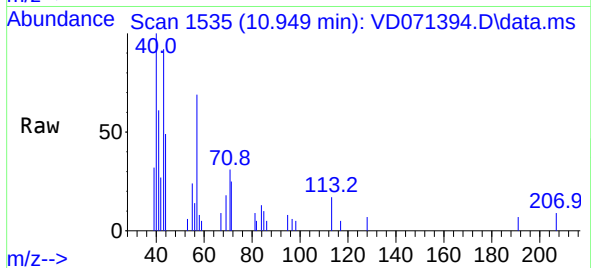
Tgt Ion: 69 Resp: 2610
Ion Ratio Lower Upper
69 100
41 83.6 50.2 75.2#
39 105.0 19.8 29.8#



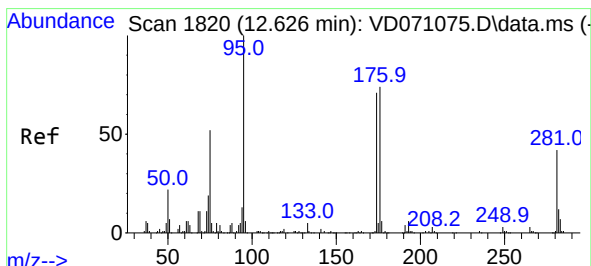
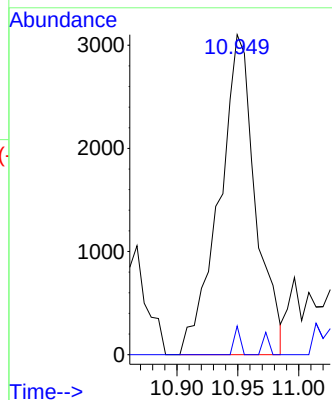
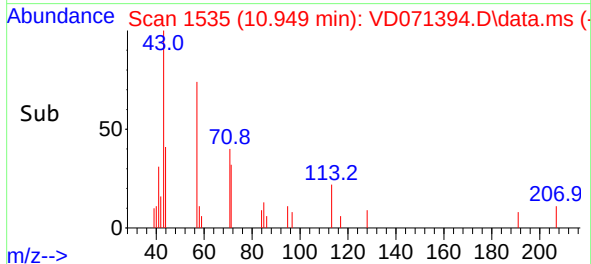


#59
2-Hexanone
Concen: 36.722 ug/l
RT: 10.949 min Scan# 11
Delta R.T. -0.030 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Instrument :
MSVOA_D
ClientSampleId :

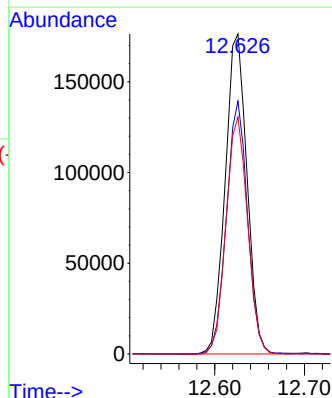
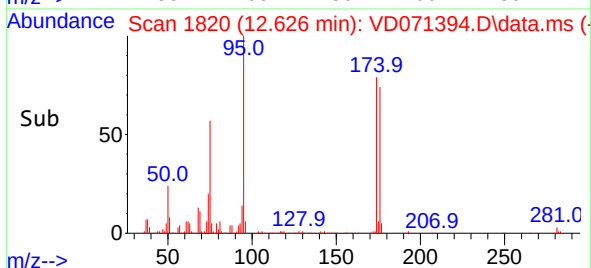
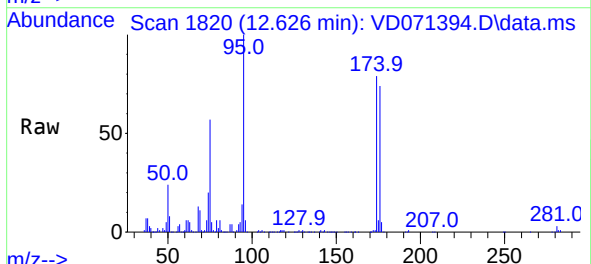


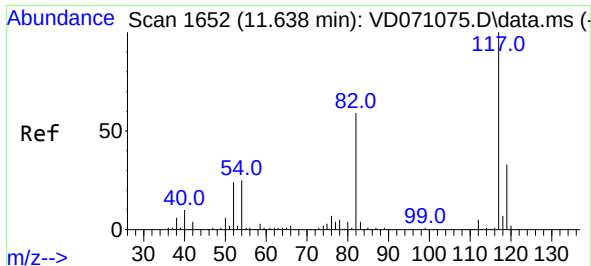
Tgt Ion: 43 Resp: 6433
Ion Ratio Lower Upper
43 100
58 1.5 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 47.065 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

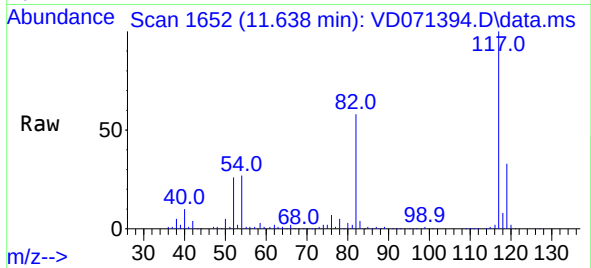
Tgt Ion: 95 Resp: 297403
Ion Ratio Lower Upper
95 100
174 76.3 0.0 159.4
176 73.1 0.0 154.0



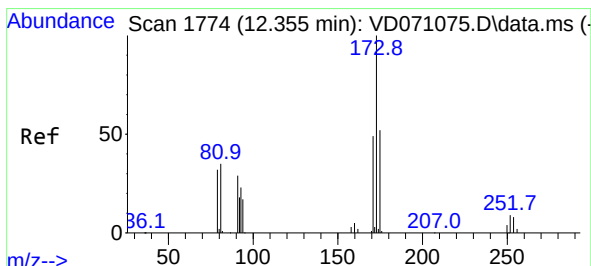
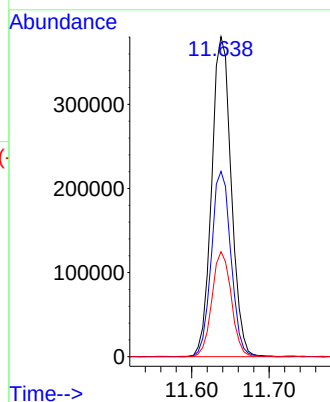
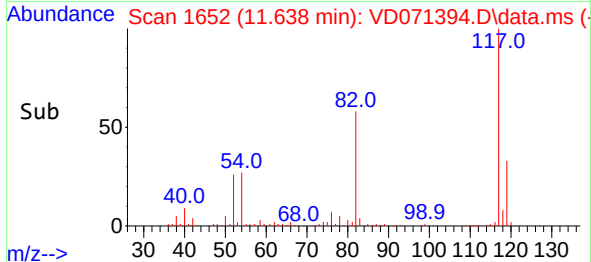


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

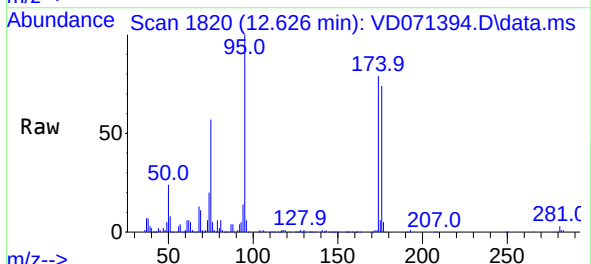
Instrument :
MSVOA_D
ClientSampleId :



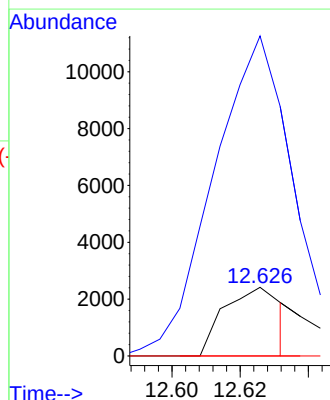
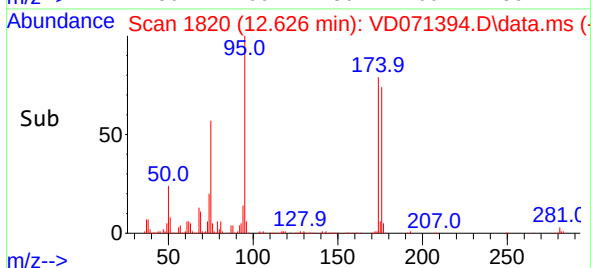
Tgt Ion:117 Resp: 667329
Ion Ratio Lower Upper
117 100
82 57.8 44.7 67.1
119 32.8 26.2 39.4

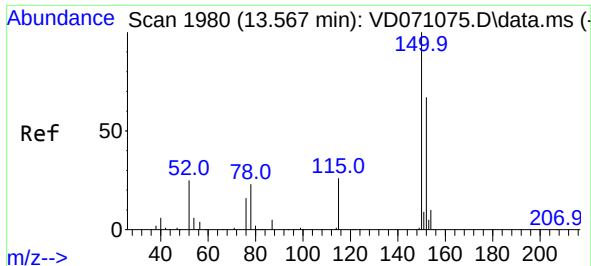


#71
Bromoform
Concen: 1.199 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51



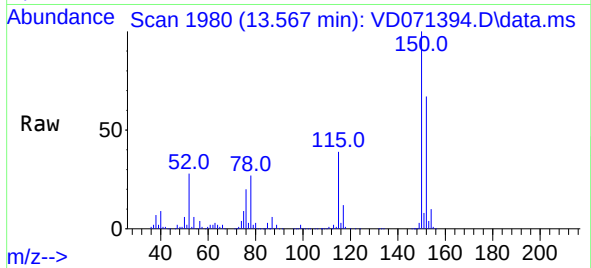
Tgt Ion:173 Resp: 2809
Ion Ratio Lower Upper
173 100
175 553.2 24.1 72.2#
254 0.0 0.1 0.1#



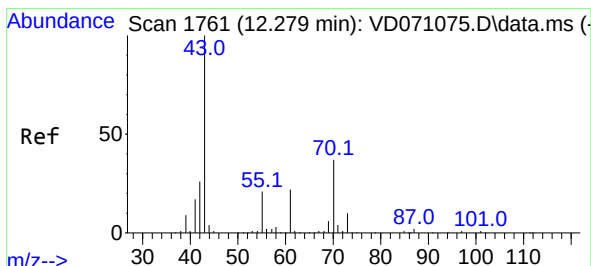
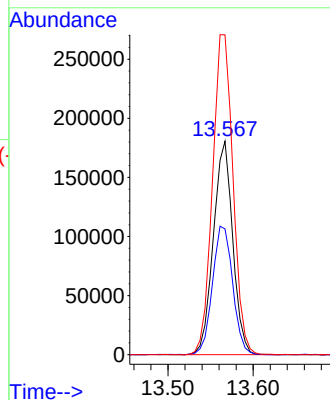
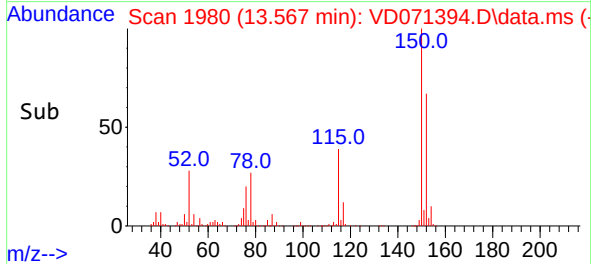


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

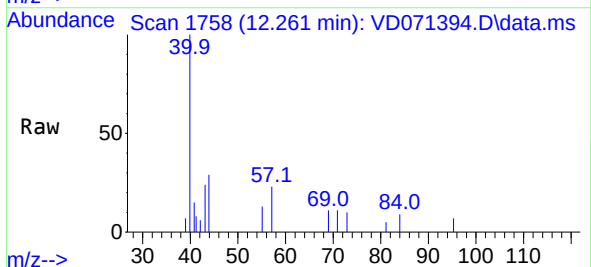
Instrument :
MSVOA_D
ClientSampleId :



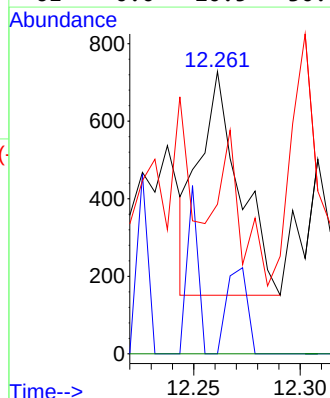
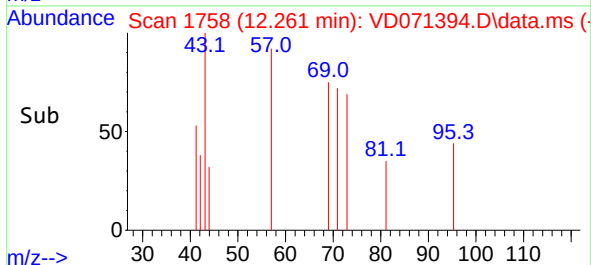
Tgt Ion:152 Resp: 284962
Ion Ratio Lower Upper
152 100
115 63.0 29.8 89.3
150 158.7 0.0 349.2

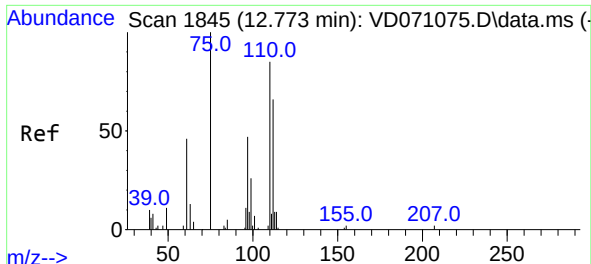


#74
N-ethyl acetate
Concen: 5.822 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51



Tgt Ion: 43 Resp: 768
Ion Ratio Lower Upper
43 100
70 19.4 36.6 55.0#
55 38.8 22.5 33.7#
61 0.0 20.5 30.7#

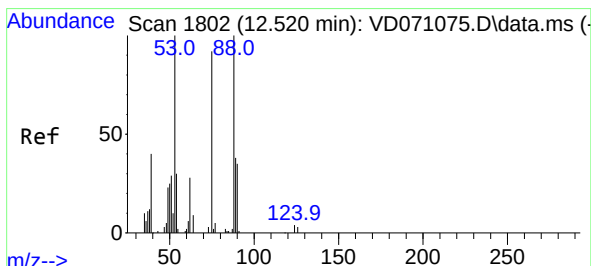
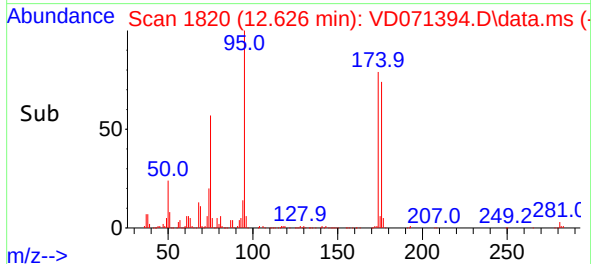
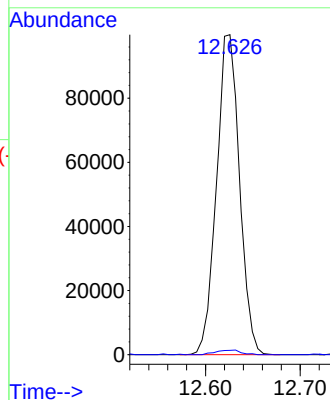
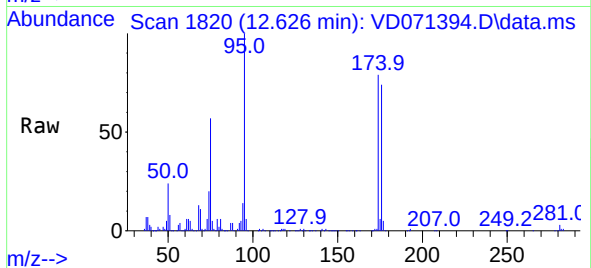




#76
1,2,3-Trichloropropane
Concen: 62.042 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 168443
Ion Ratio Lower Upper
75 100
77 1.6 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 134.129 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071394.D
Acq: 20 Dec 2021 17:51

Tgt Ion: 75 Resp: 168443
Ion Ratio Lower Upper
75 100
53 0.5 62.6 94.0#
89 0.1 34.5 51.7#

