

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111121\
 Data File : VD070998.D
 Acq On : 11 Nov 2021 18:20
 Operator : VA/SY
 Sample : M4583-06
 Misc : 5.15G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 08:03:44 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110921S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 10 03:55:51 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.979	168	365743	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	638931	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	624897	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	282734	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	202791	52.077	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.160%			
35) Dibromofluoromethane	7.908	113	193776	53.747	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.500%			
50) Toluene-d8	10.332	98	806793	57.140	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 114.280%			
62) 4-Bromofluorobenzene	12.620	95	304763	59.947	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 119.900%			
Target Compounds						Qvalue
10) Methyl Iodide	4.303	142	164	6.056	ug/l #	40
11) Tert butyl alcohol	5.185	59	539	1.894	ug/l #	71
13) Acrolein	3.926	56	72	Below Cal	#	13
14) Allyl chloride	4.809	41	25258	3.492	ug/l #	70
15) Acrylonitrile	5.485	53	11884	13.039	ug/l #	38
16) Acetone	4.156	43	84543	93.824	ug/l	89
18) Methyl Acetate	4.791	43	12099	3.622	ug/l #	51
20) Methylene Chloride	4.967	84	12491	2.417	ug/l #	83
23) Vinyl Acetate	6.273	43	7350	21.860	ug/l #	72
25) 2-Butanone	7.214	43	29134	40.059	ug/l #	87
29) Tetrahydrofuran	7.567	42	1693	2.140	ug/l #	43
31) Cyclohexane	7.950	56	80343	10.033	ug/l #	46
36) 1,1-Dichloropropene	7.973	75	32252	5.654	ug/l #	48
37) Ethyl Acetate	7.214	43	29134	11.194	ug/l #	66
38) Carbon Tetrachloride	7.973	117	38319	7.294	ug/l #	17
41) Methacrylonitrile	7.561	41	12943	9.798	ug/l #	36
43) Isopropyl Acetate	8.444	43	83362	15.134	ug/l #	47
47) Bromodichloromethane	9.632	83	7586	1.387	ug/l #	26
48) Methyl methacrylate	9.402	41	20831	7.709	ug/l #	47
51) 4-Methyl-2-Pentanone	10.108	43	385160	144.230	ug/l #	38
55) 1,1,2-Trichloroethane	10.779	97	4938	1.737	ug/l #	1
56) Ethyl methacrylate	10.638	69	15008	3.732	ug/l #	1
59) 2-Hexanone	10.949	43	14974	22.648	ug/l #	27
74) N-amyl acetate	12.255	43	7453	1.281	ug/l #	1
76) 1,2,3-Trichloropropane	12.620	75	163146	67.552	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	163146	124.750	ug/l #	18

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

Instrument :

MSVOA_D

ClientSampleId :

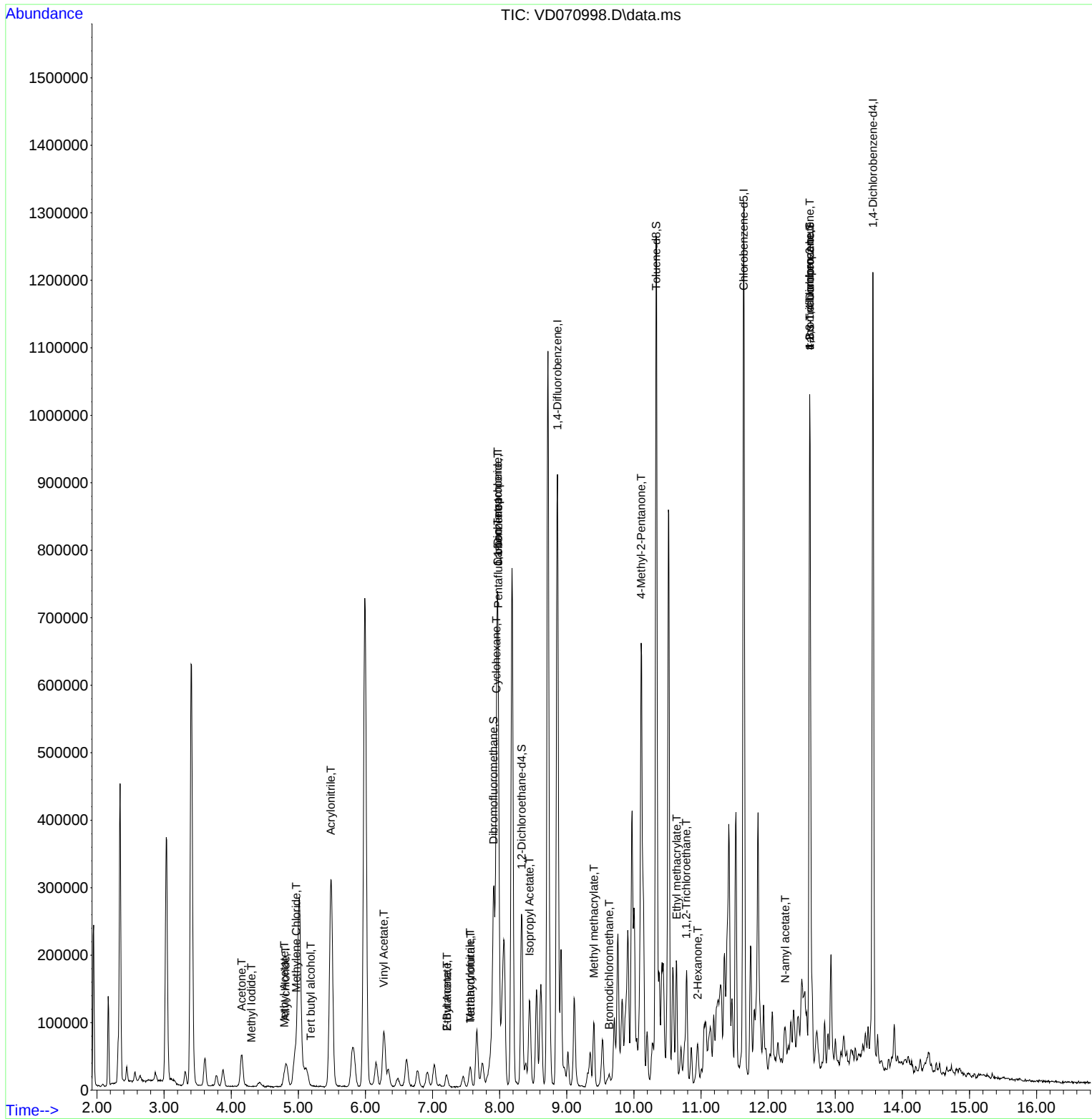
Quant Time: Nov 12 08:03:44 2021

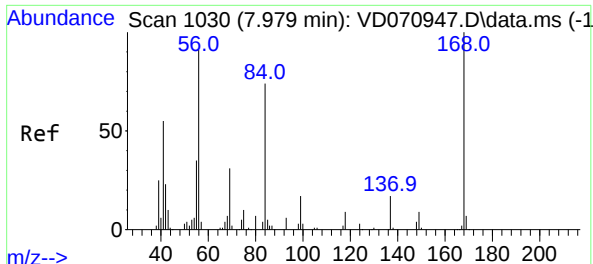
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Quant Title : SW846 8260

QLast Update : Wed Nov 10 03:55:51 2021

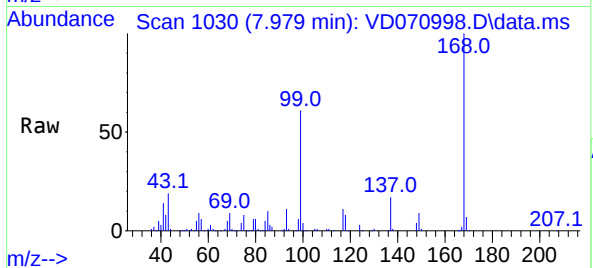
Response via : Initial Calibration



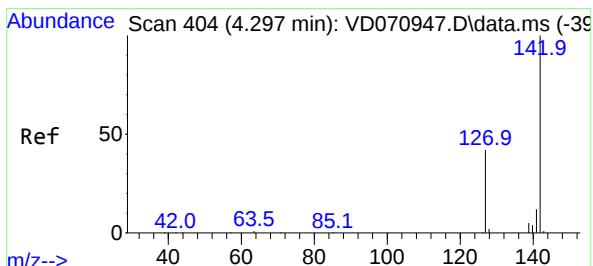
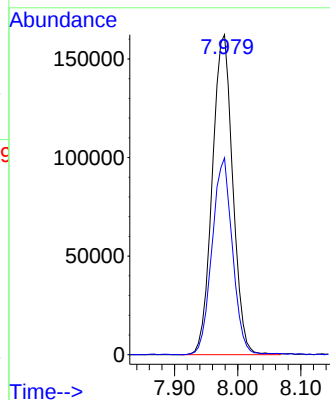
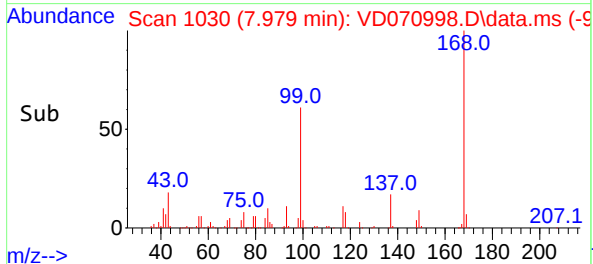


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.000 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

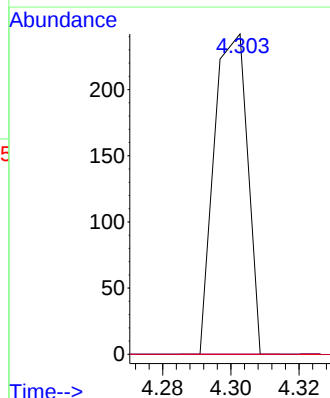
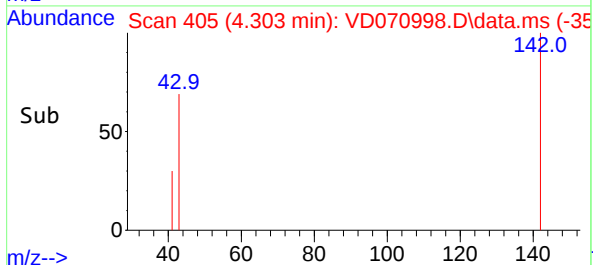
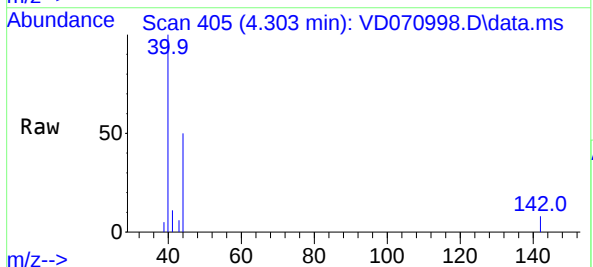


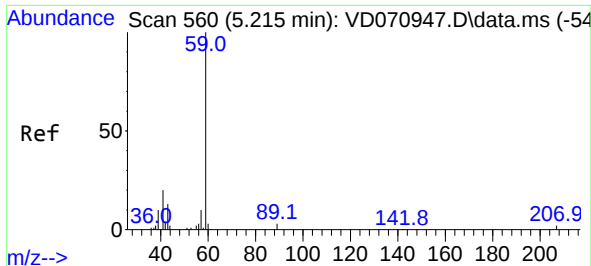
Tgt Ion:168 Resp: 365743
Ion Ratio Lower Upper
168 100
99 61.5 46.6 69.8



#10
Methyl Iodide
Concen: 6.056 ug/l
RT: 4.303 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

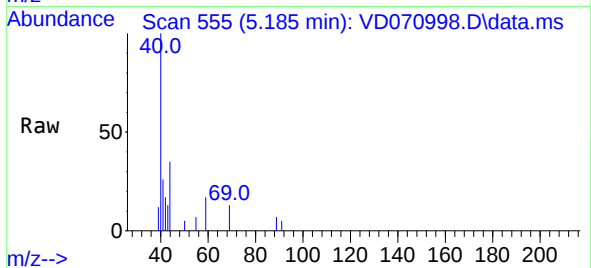
Tgt Ion:142 Resp: 164
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#



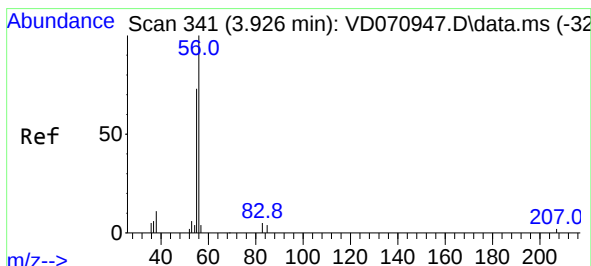
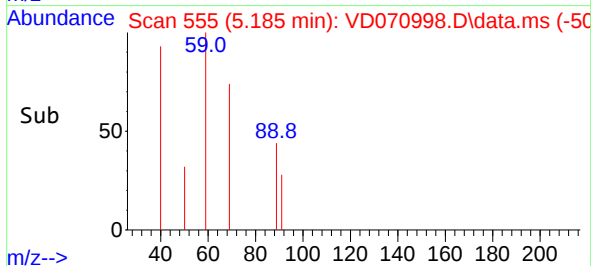
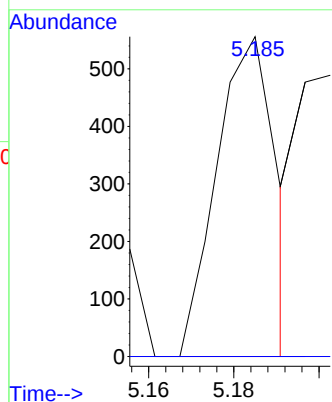


#11
Tert butyl alcohol
Concen: 1.894 ug/l
RT: 5.185 min Scan# 51
Delta R.T. -0.030 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

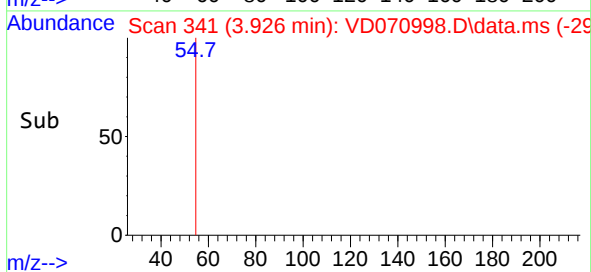
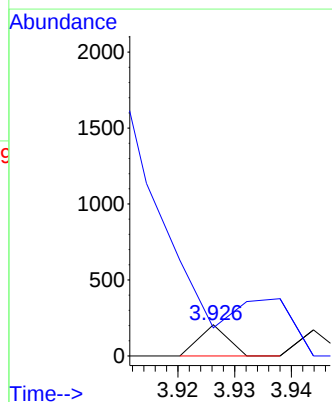
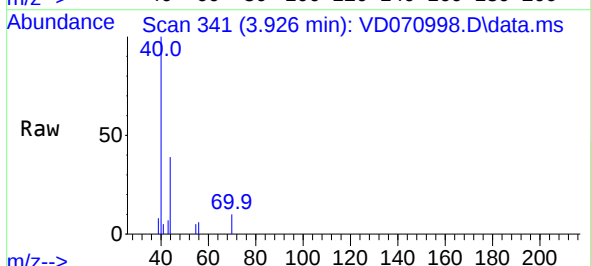


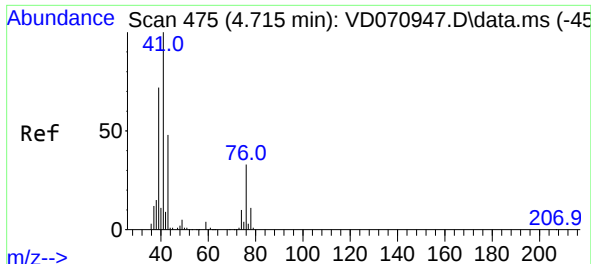
Tgt Ion: 59 Resp: 539
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: Below Cal
RT: 3.926 min Scan# 341
Delta R.T. 0.000 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

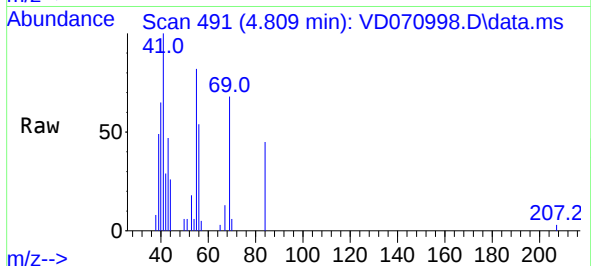
Tgt Ion: 56 Resp: 72
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



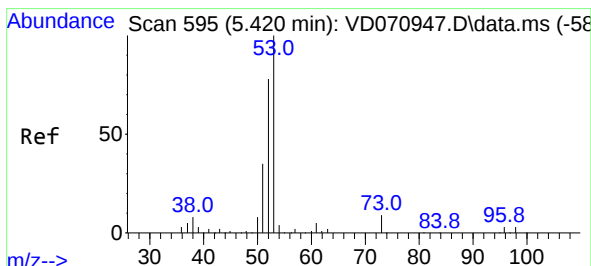
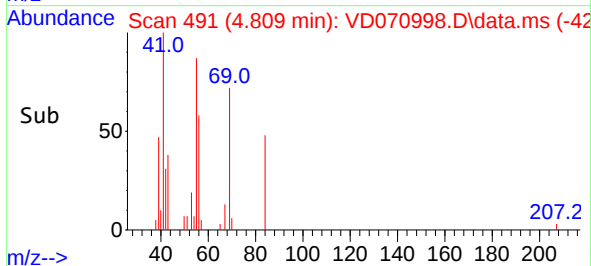
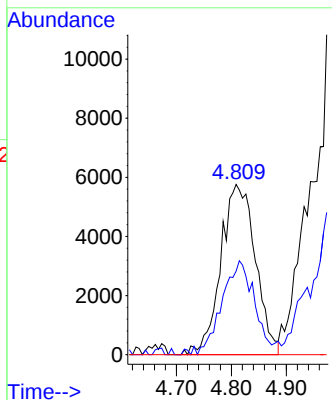


#14
 Allyl chloride
 Concen: 3.492 ug/l
 RT: 4.809 min Scan# 491
 Delta R.T. 0.094 min
 Lab File: VD070998.D
 Acq: 11 Nov 2021 18:20

Instrument :
 MSVOA_D
 ClientSampleId :

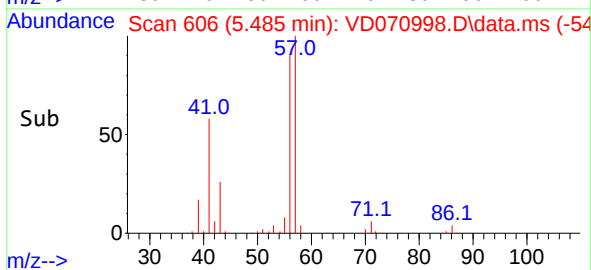
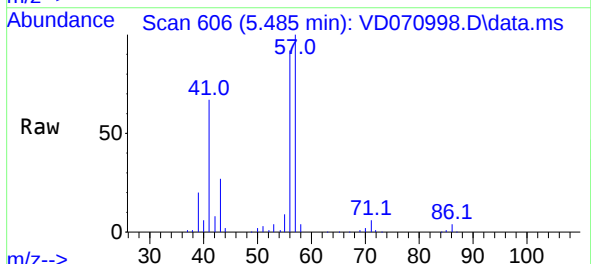
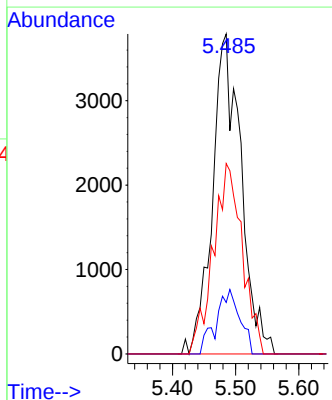


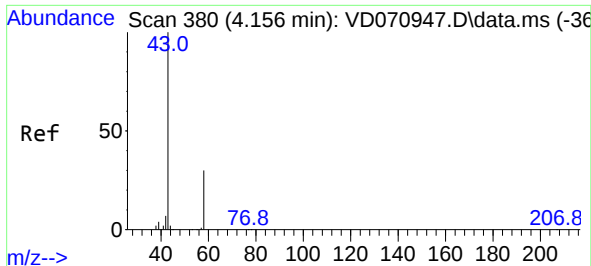
Tgt Ion: 41 Resp: 25258
 Ion Ratio Lower Upper
 41 100
 39 50.8 45.6 68.4
 76 0.0 30.2 45.4#



#15
 Acrylonitrile
 Concen: 13.039 ug/l
 RT: 5.485 min Scan# 606
 Delta R.T. 0.065 min
 Lab File: VD070998.D
 Acq: 11 Nov 2021 18:20

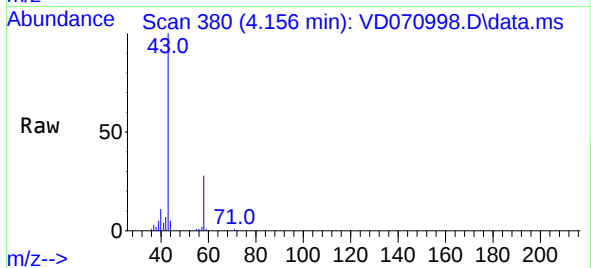
Tgt Ion: 53 Resp: 11884
 Ion Ratio Lower Upper
 53 100
 52 16.8 63.8 95.8#
 51 60.4 28.5 42.7#



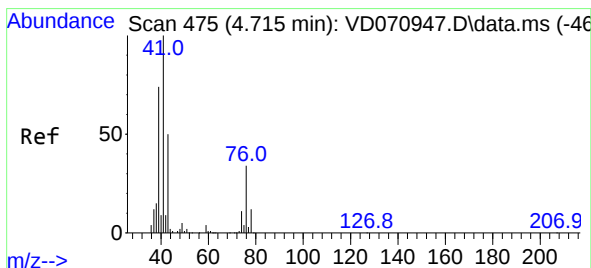
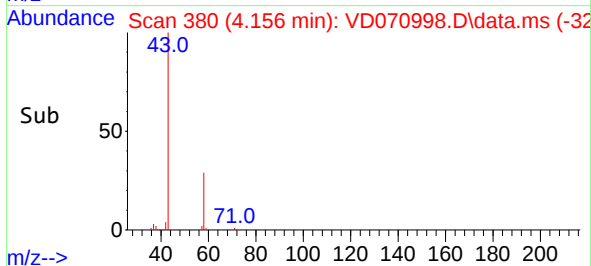
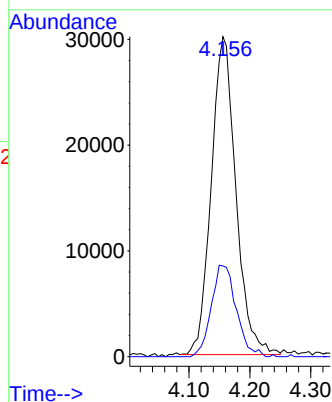


#16
Acetone
Concen: 93.824 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

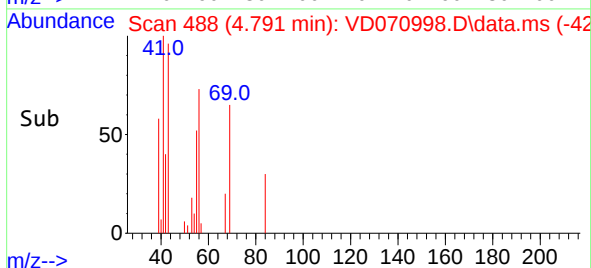
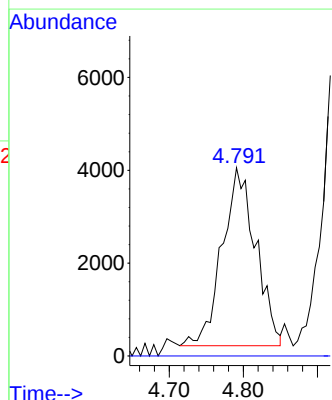
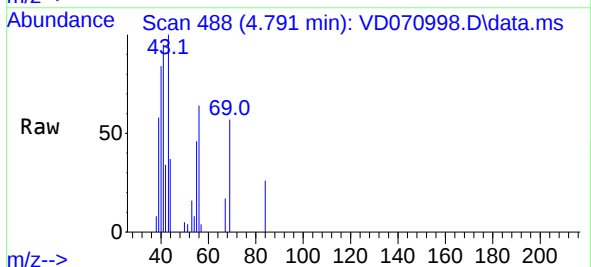


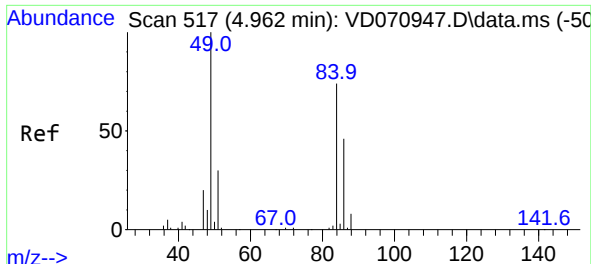
Tgt Ion: 43 Resp: 84543
Ion Ratio Lower Upper
43 100
58 28.5 27.8 41.8



#18
Methyl Acetate
Concen: 3.622 ug/l
RT: 4.791 min Scan# 488
Delta R.T. 0.076 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

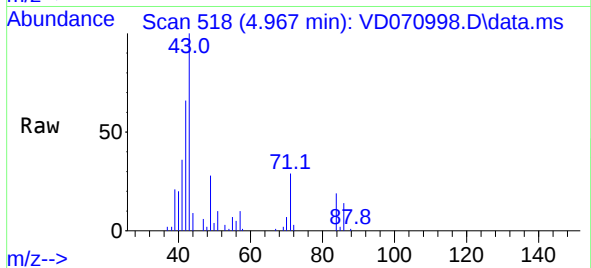
Tgt Ion: 43 Resp: 12099
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



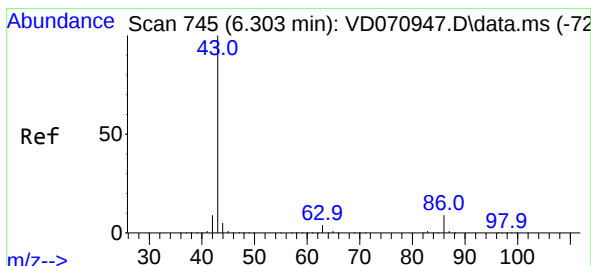
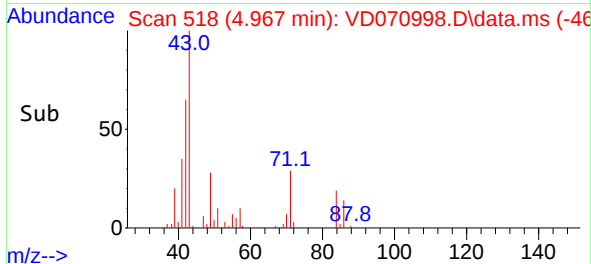
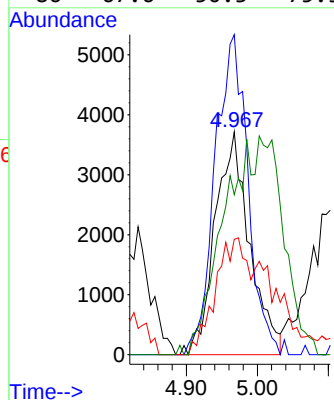


#20
Methylene Chloride
Concen: 2.417 ug/l
RT: 4.967 min Scan# 51
Delta R.T. 0.005 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

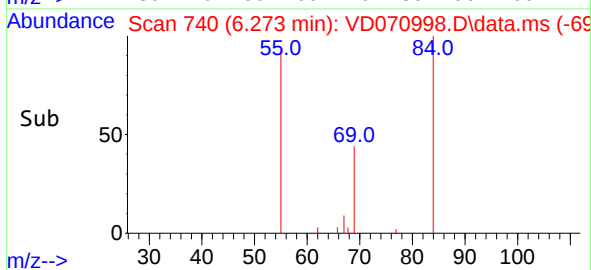
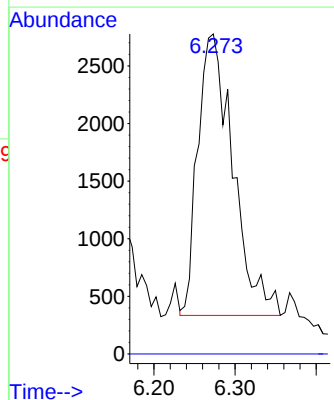
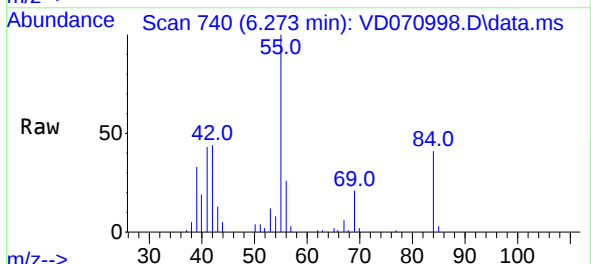


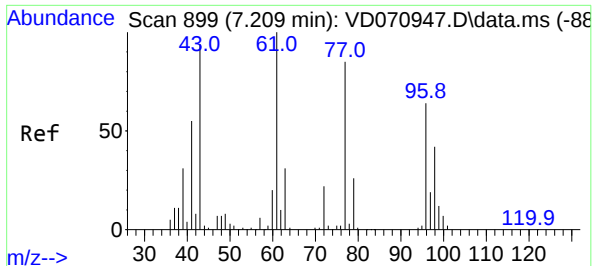
Tgt Ion: 84 Resp: 12491
Ion Ratio Lower Upper
84 100
49 143.6 95.8 143.6
51 51.8 30.9 46.3#
86 67.6 50.3 75.5



#23
Vinyl Acetate
Concen: 21.860 ug/l
RT: 6.273 min Scan# 740
Delta R.T. -0.030 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Tgt Ion: 43 Resp: 7350
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#

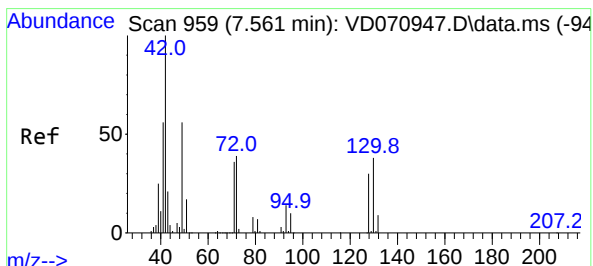
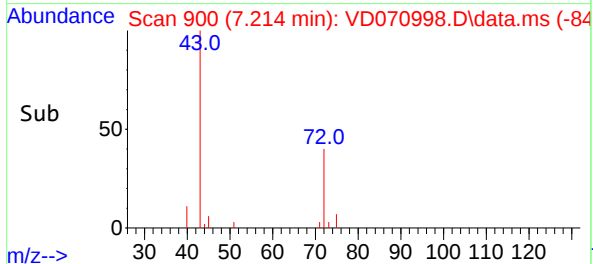
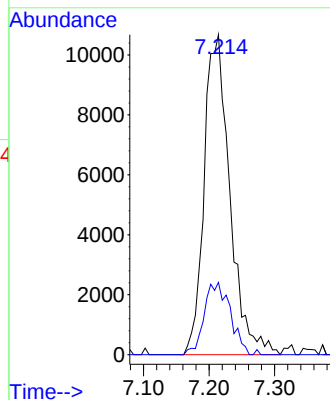
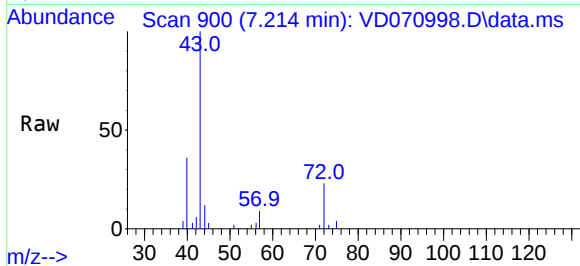




#25
2-Butanone
Concen: 40.059 ug/l
RT: 7.214 min Scan# 90
Delta R.T. 0.005 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

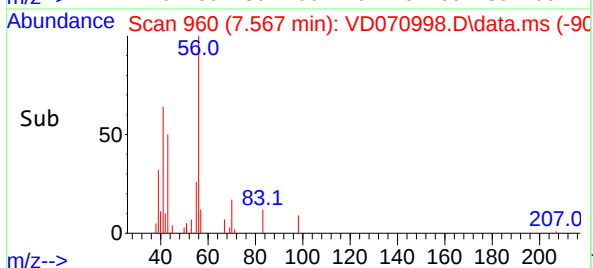
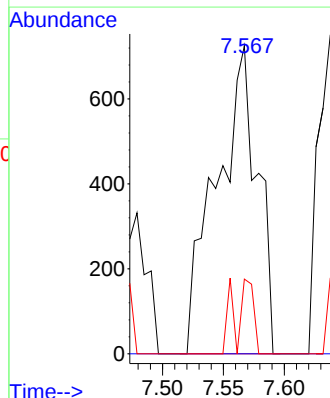
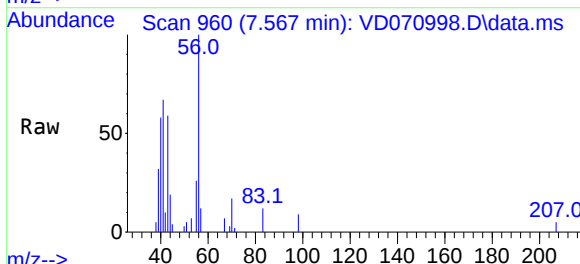
Instrument :
MSVOA_D
ClientSampleId :

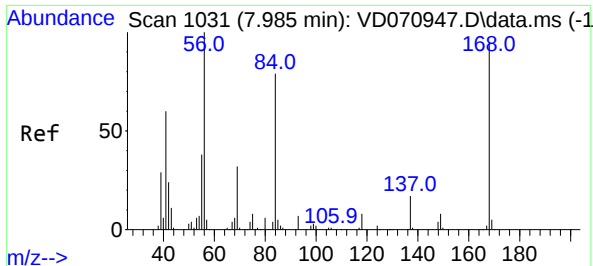
Tgt Ion: 43 Resp: 29134
Ion Ratio Lower Upper
43 100
72 22.6 23.8 35.6#



#29
Tetrahydrofuran
Concen: 2.140 ug/l
RT: 7.567 min Scan# 960
Delta R.T. 0.006 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Tgt Ion: 42 Resp: 1693
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 10.8 32.7 49.1#





#31

Cyclohexane

Concen: 10.033 ug/l

RT: 7.950 min Scan# 1025

Delta R.T. -0.035 min

Lab File: VD070998.D

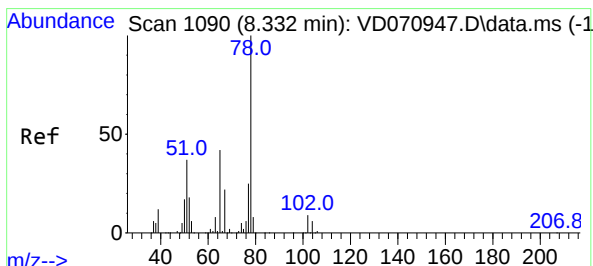
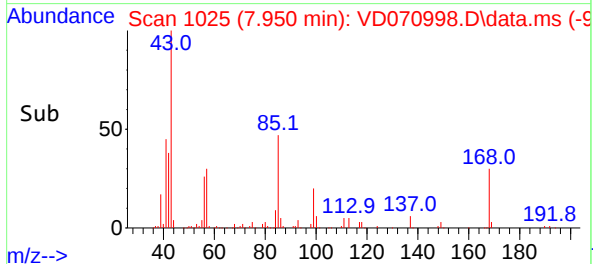
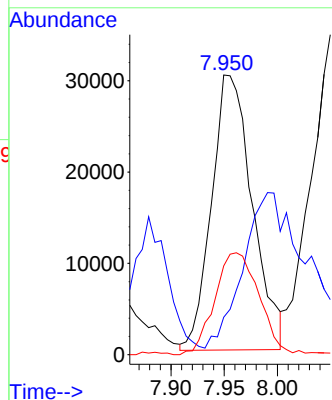
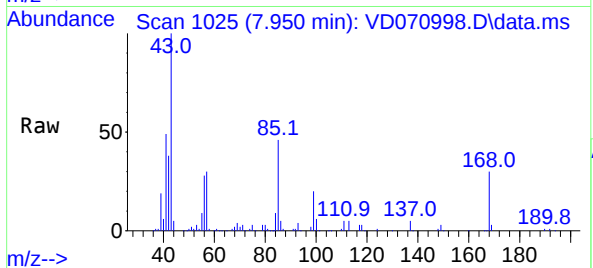
Acq: 11 Nov 2021 18:20

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	56	Resp:	80343
Ion Ratio	Lower	Upper	
56	100		
69	1.3	25.9	38.9#
84	33.0	64.3	96.5#



#33

1,2-Dichloroethane-d4

Concen: 52.077 ug/l

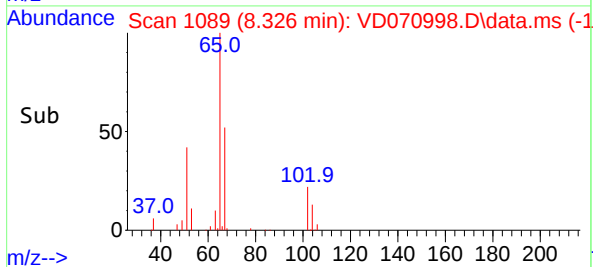
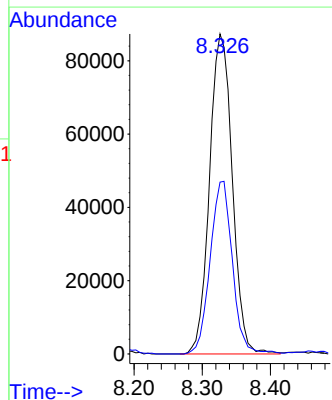
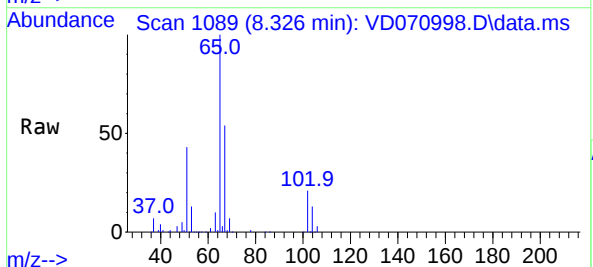
RT: 8.326 min Scan# 1089

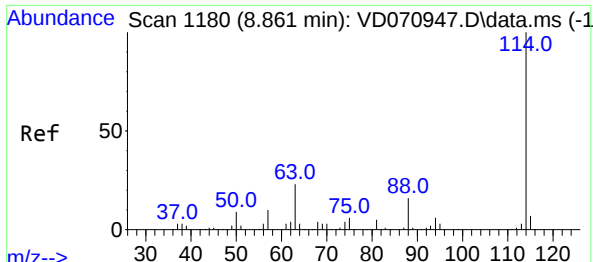
Delta R.T. -0.006 min

Lab File: VD070998.D

Acq: 11 Nov 2021 18:20

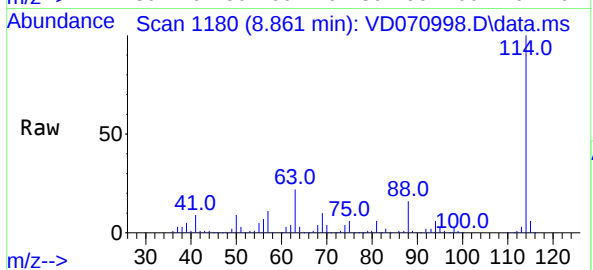
Tgt Ion:	65	Resp:	202791
Ion Ratio	Lower	Upper	
65	100		
67	52.4	0.0	112.2



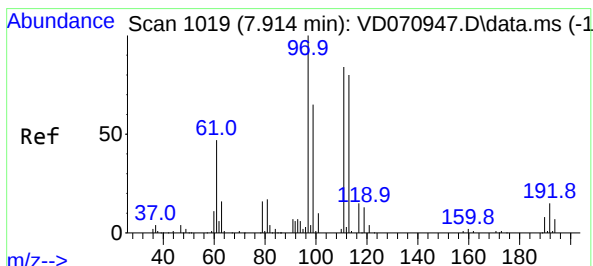
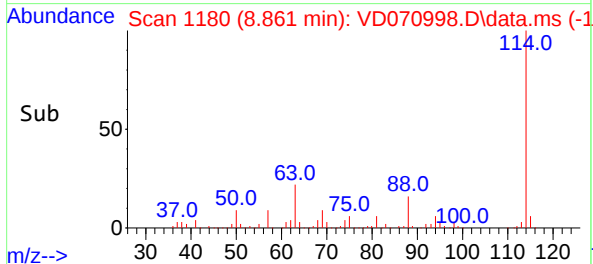
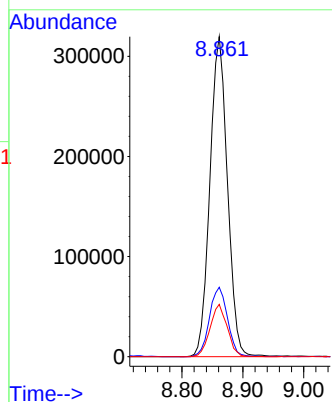


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

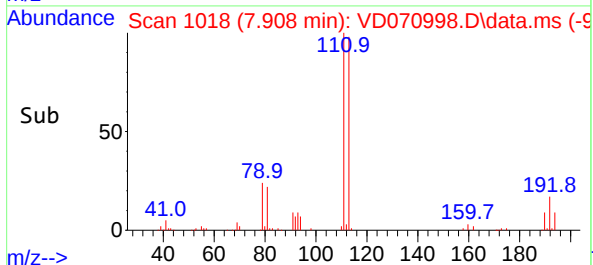
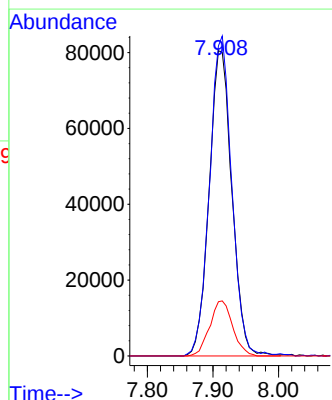
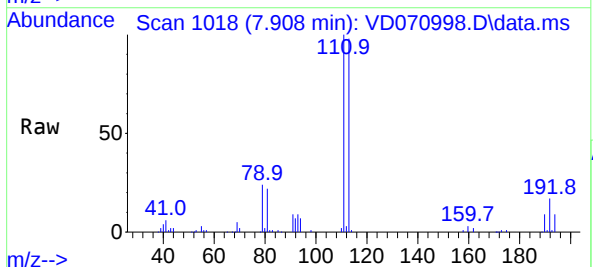


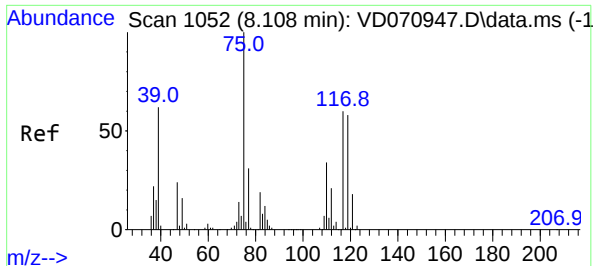
Tgt Ion:114 Resp: 638931
Ion Ratio Lower Upper
114 100
63 21.7 0.0 41.8
88 16.3 0.0 32.8



#35
Dibromofluoromethane
Concen: 53.747 ug/l
RT: 7.908 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Tgt Ion:113 Resp: 193776
Ion Ratio Lower Upper
113 100
111 102.5 82.0 123.0
192 18.2 15.2 22.8





#36

1,1-Dichloropropene

Concen: 5.654 ug/l

RT: 7.973 min Scan# 1

Delta R.T. -0.135 min

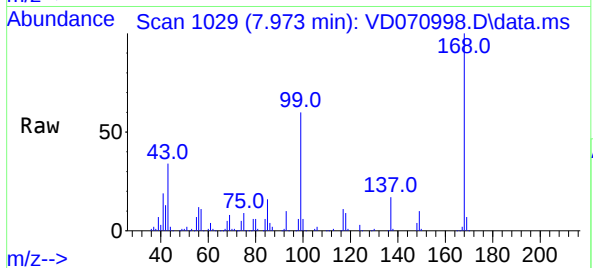
Lab File: VD070998.D

Acq: 11 Nov 2021 18:20

Instrument :

MSVOA_D

ClientSampleId :



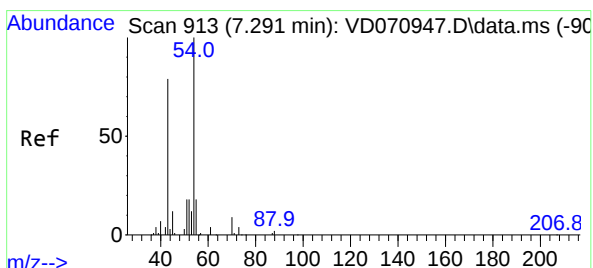
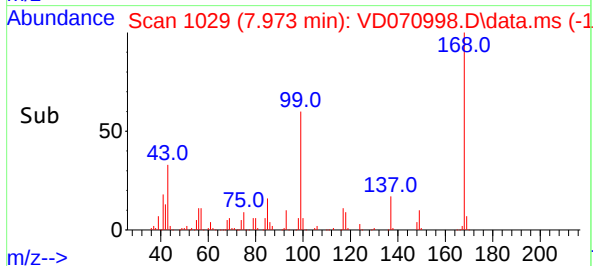
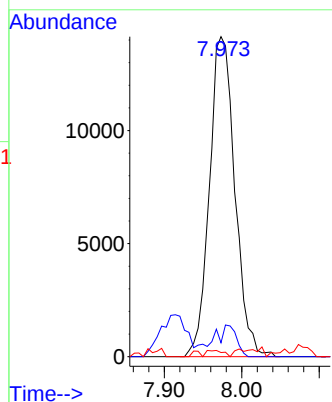
Tgt Ion: 75 Resp: 32252

Ion Ratio Lower Upper

75 100

110 7.7 17.8 53.4#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 11.194 ug/l

RT: 7.214 min Scan# 900

Delta R.T. -0.077 min

Lab File: VD070998.D

Acq: 11 Nov 2021 18:20

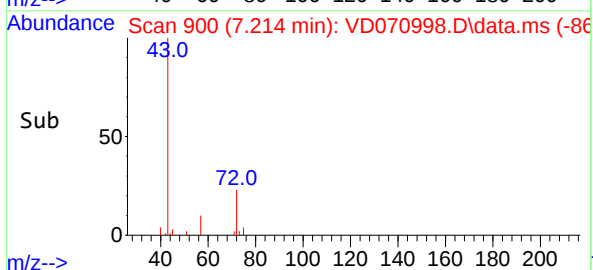
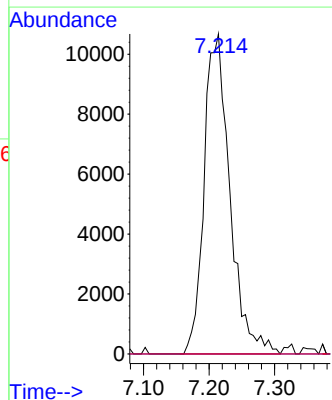
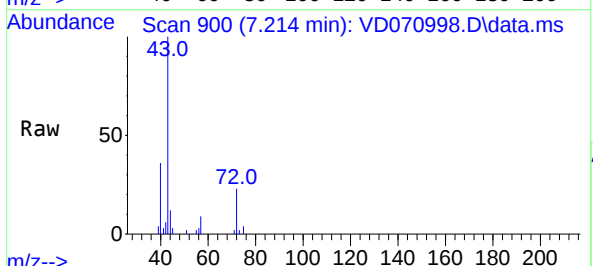
Tgt Ion: 43 Resp: 29134

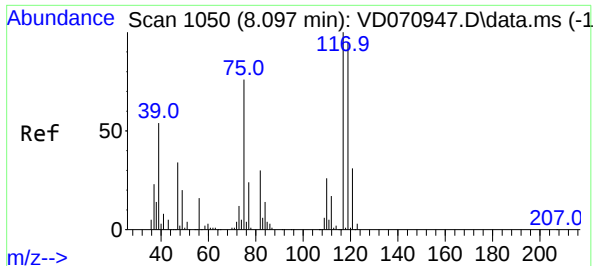
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

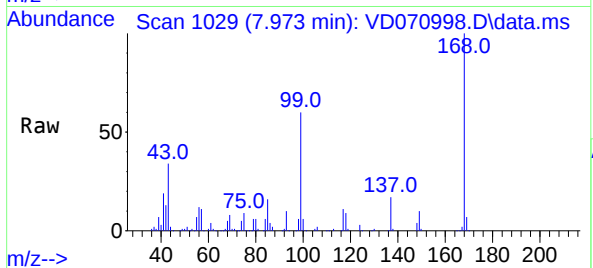
70 0.0 8.7 13.1#



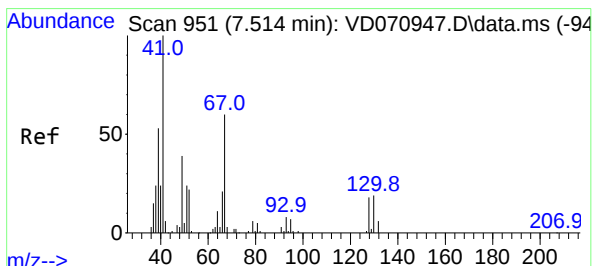
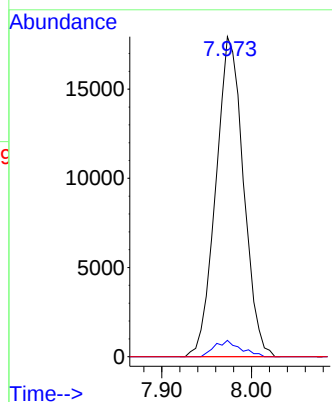
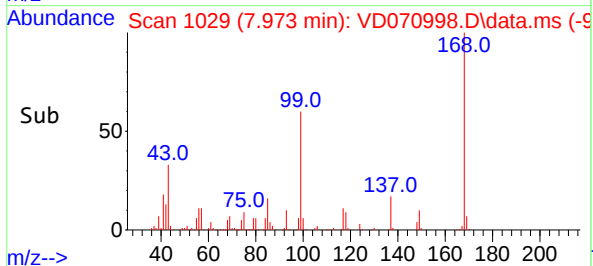


#38
Carbon Tetrachloride
Concen: 7.294 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

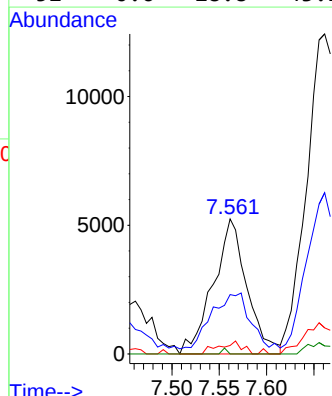
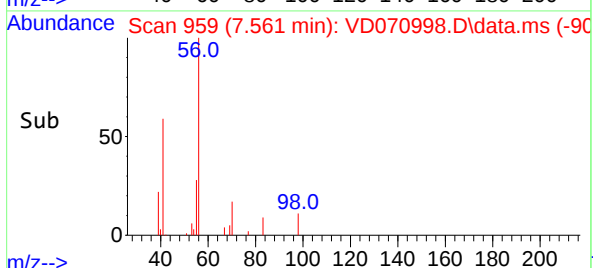
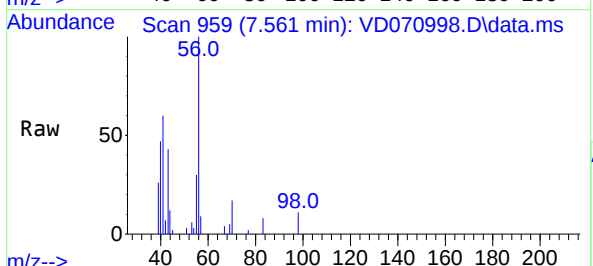


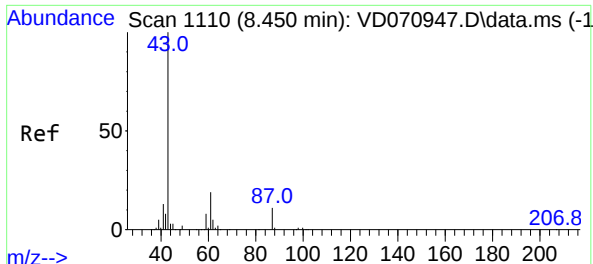
Tgt Ion:117 Resp: 38319
Ion Ratio Lower Upper
117 100
119 5.1 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 9.798 ug/l
RT: 7.561 min Scan# 959
Delta R.T. 0.047 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

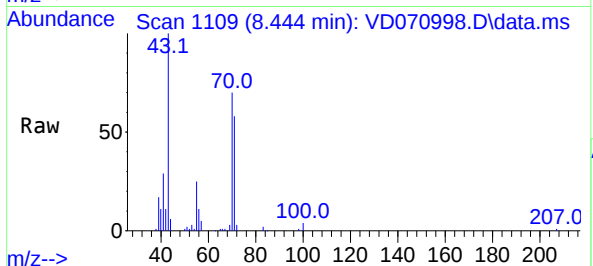
Tgt Ion: 41 Resp: 12943
Ion Ratio Lower Upper
41 100
39 46.5 60.2 90.4#
67 6.5 74.8 112.2#
52 0.6 28.8 43.2#



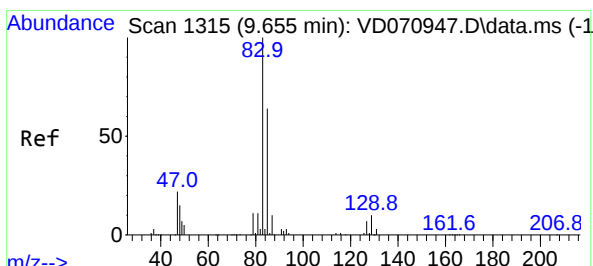
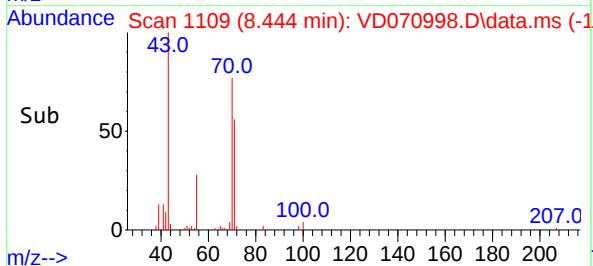
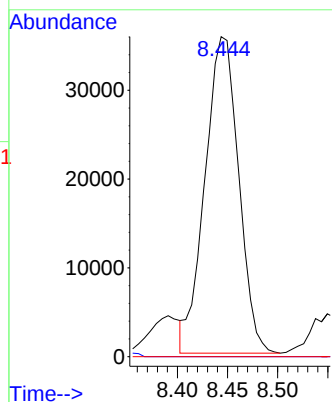


#43
Isopropyl Acetate
Concen: 15.134 ug/l
RT: 8.444 min Scan# 1110
Delta R.T. -0.006 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

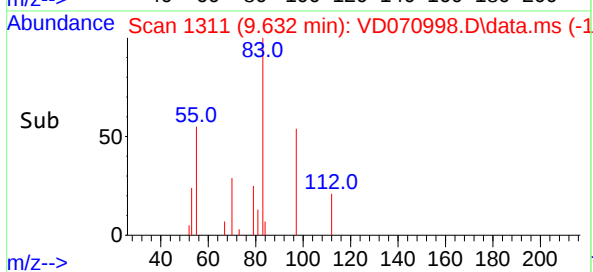
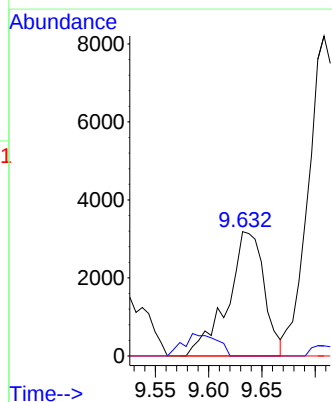
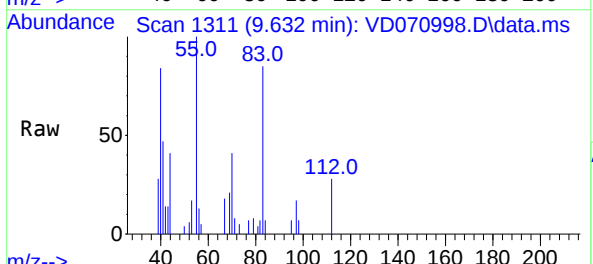


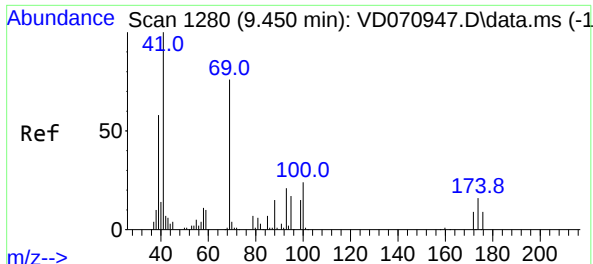
Tgt Ion: 43 Resp: 83362
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#47
Bromodichloromethane
Concen: 1.387 ug/l
RT: 9.632 min Scan# 1311
Delta R.T. -0.023 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Tgt Ion: 83 Resp: 7586
Ion Ratio Lower Upper
83 100
85 0.0 50.0 75.0#
127 0.0 7.3 10.9#





#48

Methyl methacrylate

Concen: 7.709 ug/l

RT: 9.402 min Scan# 11

Delta R.T. -0.048 min

Lab File: VD070998.D

Acq: 11 Nov 2021 18:20

Instrument :

MSVOA_D

ClientSampleId :

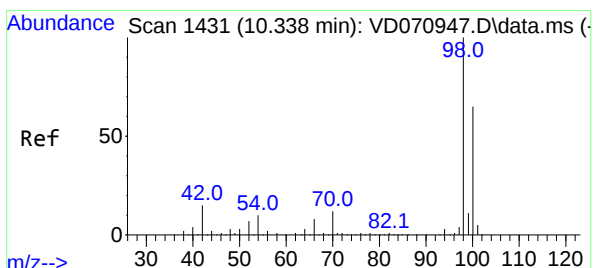
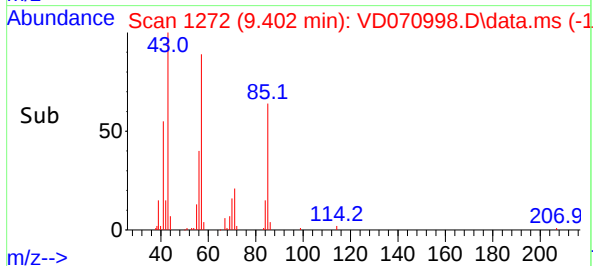
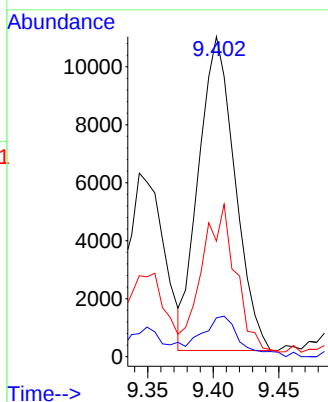
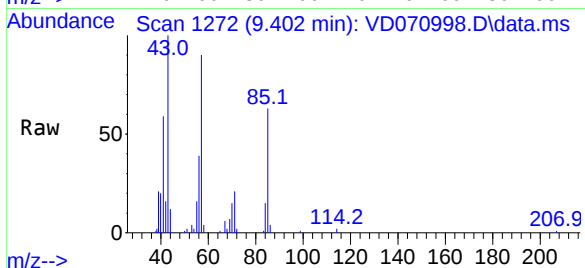
Tgt Ion: 41 Resp: 20831

Ion Ratio Lower Upper

41 100

69 13.4 69.8 104.6#

39 44.0 35.6 53.4



#50

Toluene-d8

Concen: 57.140 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD070998.D

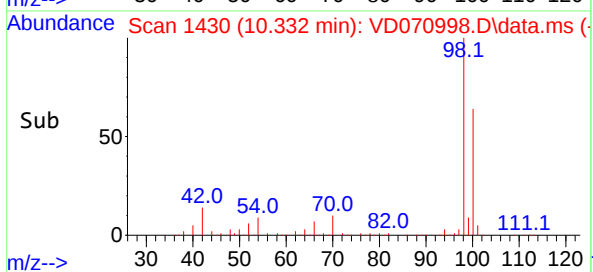
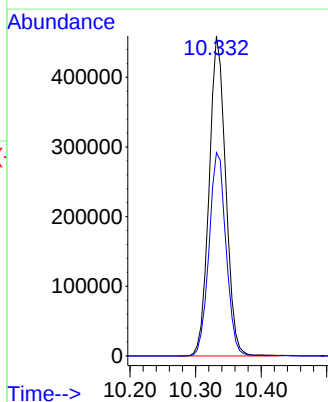
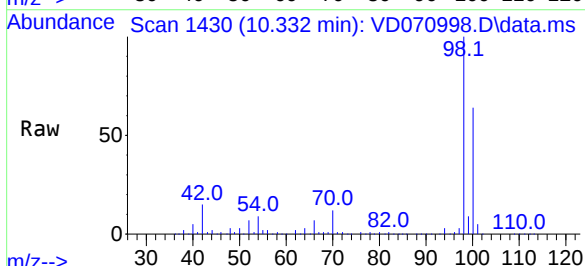
Acq: 11 Nov 2021 18:20

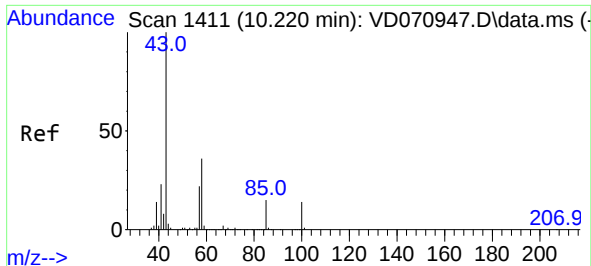
Tgt Ion: 98 Resp: 806793

Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 144.230 ug/l

RT: 10.108 min Scan# 11

Delta R.T. -0.112 min

Lab File: VD070998.D

Acq: 11 Nov 2021 18:20

Instrument :

MSVOA_D

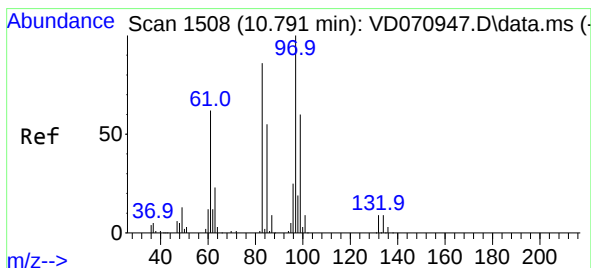
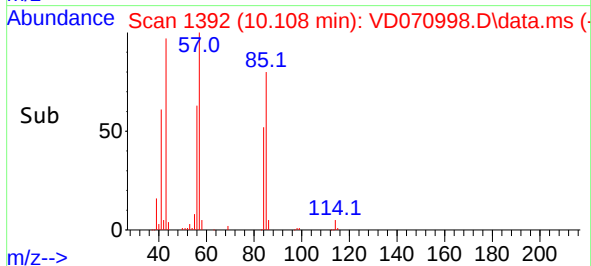
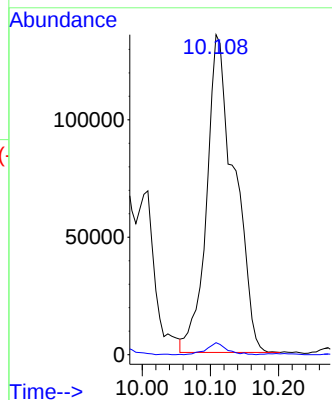
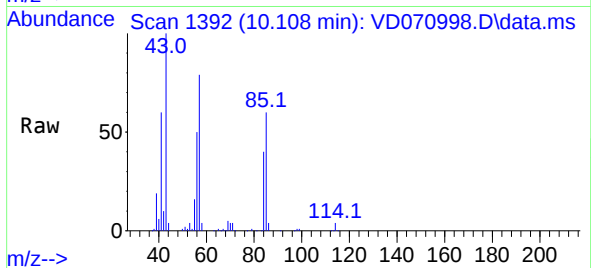
ClientSampleId :

Tgt Ion: 43 Resp: 385160

Ion Ratio Lower Upper

43 100

58 2.7 33.1 49.7#



#55

1,1,2-Trichloroethane

Concen: 1.737 ug/l

RT: 10.779 min Scan# 1506

Delta R.T. -0.012 min

Lab File: VD070998.D

Acq: 11 Nov 2021 18:20

Tgt Ion: 97 Resp: 4938

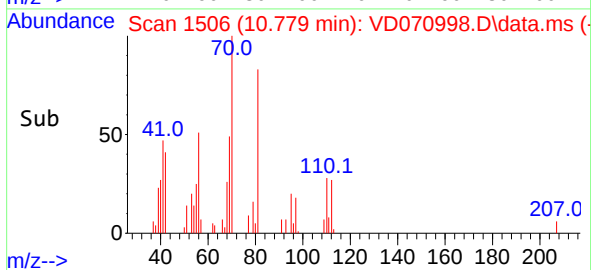
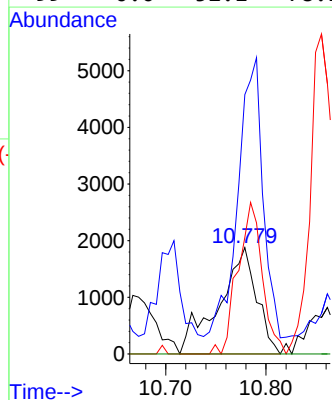
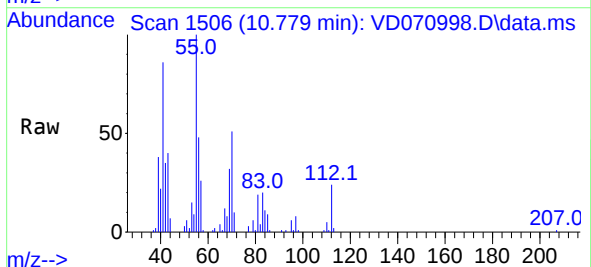
Ion Ratio Lower Upper

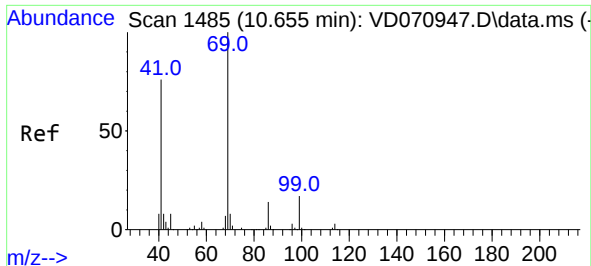
97 100

83 228.5 65.2 97.8#

85 109.7 43.4 65.0#

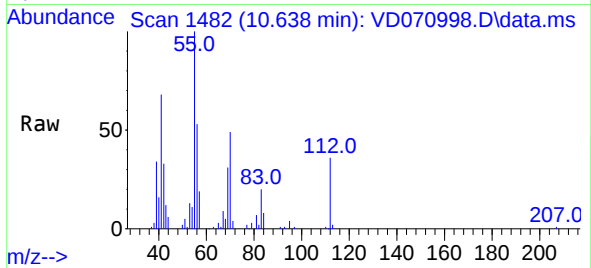
99 0.0 52.1 78.1#



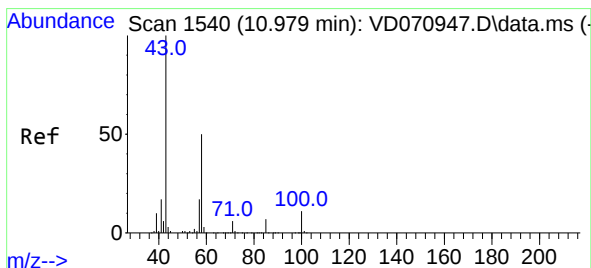
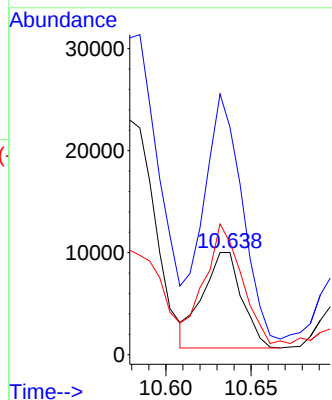
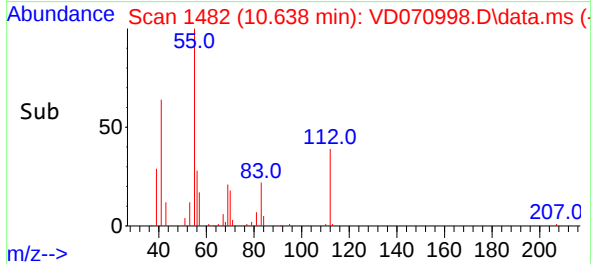


#56
Ethyl methacrylate
Concen: 3.732 ug/l
RT: 10.638 min Scan# 1482
Delta R.T. -0.017 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

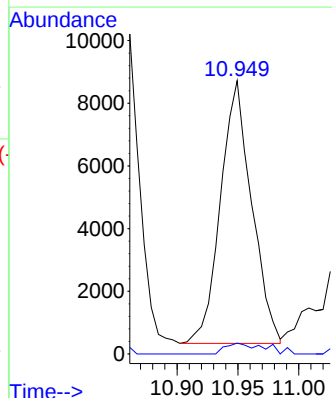
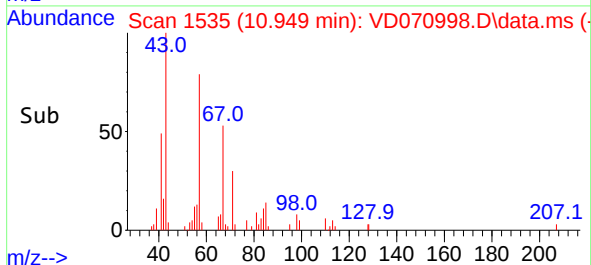
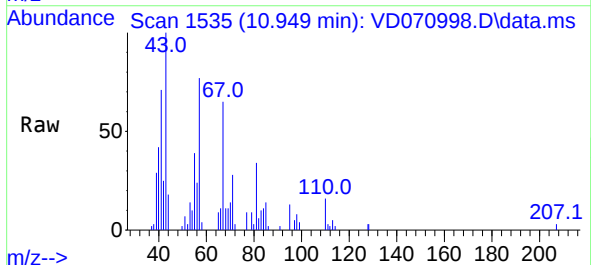


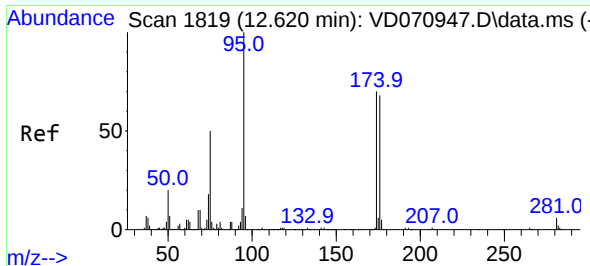
Tgt Ion: 69 Resp: 15008
Ion Ratio Lower Upper
69 100
41 250.2 50.2 75.2#
39 117.2 19.8 29.8#



#59
2-Hexanone
Concen: 22.648 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.030 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Tgt Ion: 43 Resp: 14974
Ion Ratio Lower Upper
43 100
58 3.1 28.7 86.1#

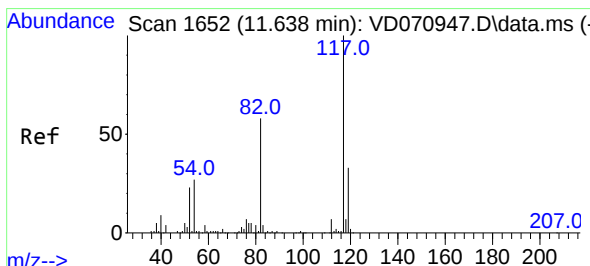
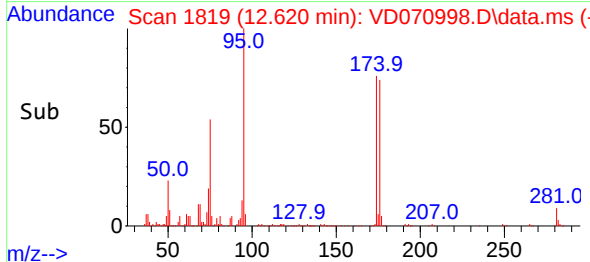
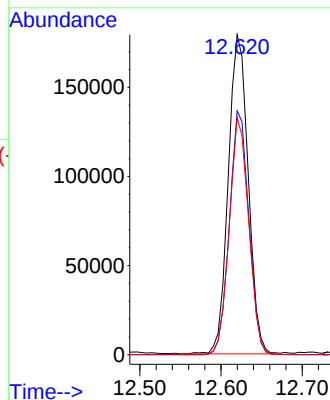
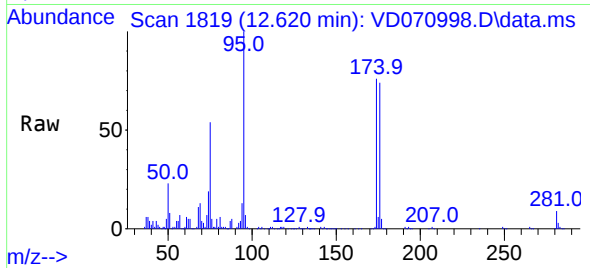




#62
4-Bromofluorobenzene
Concen: 59.947 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

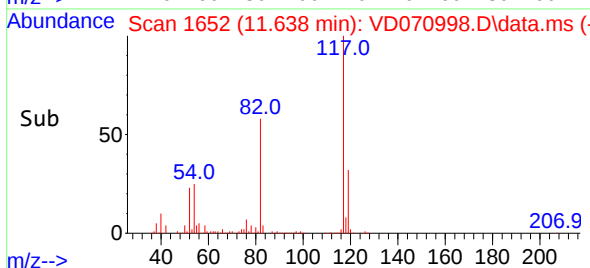
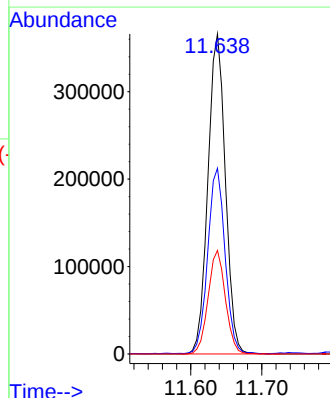
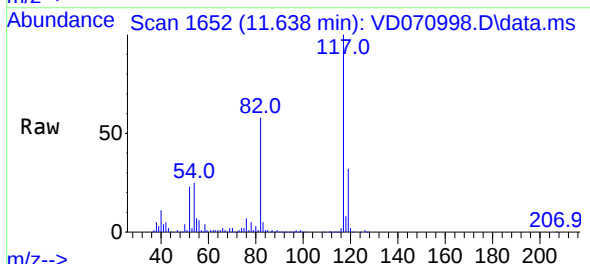
Instrument :
MSVOA_D
ClientSampleId :

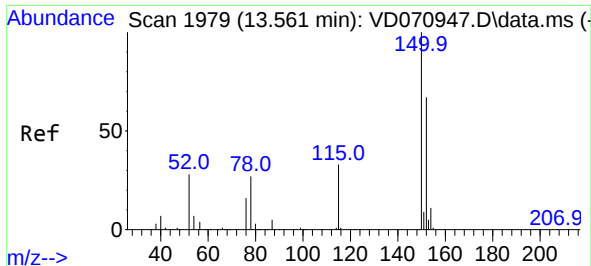
Tgt Ion: 95 Resp: 304763
Ion Ratio Lower Upper
95 100
174 74.6 0.0 159.4
176 72.3 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

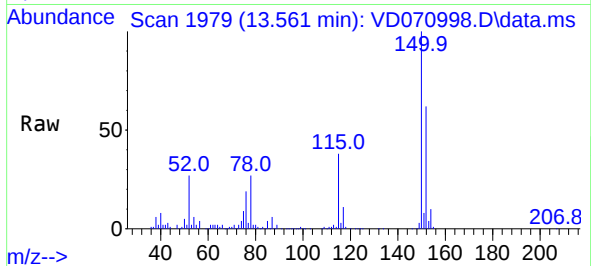
Tgt Ion: 117 Resp: 624897
Ion Ratio Lower Upper
117 100
82 57.9 44.7 67.1
119 32.3 26.2 39.4



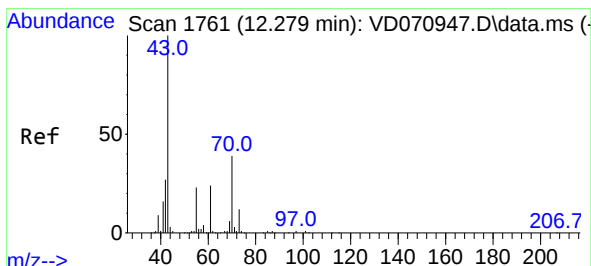
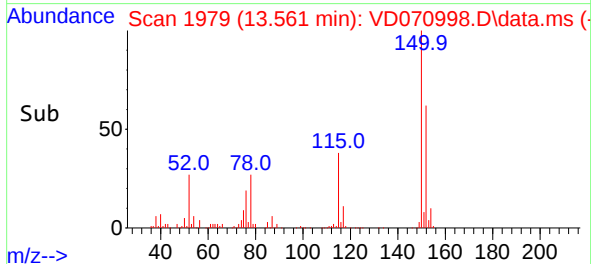
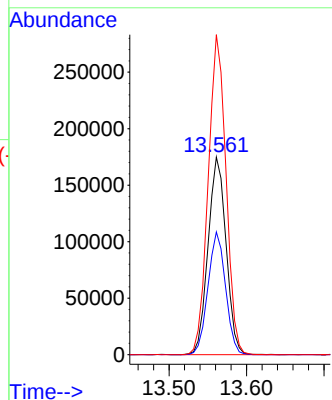


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

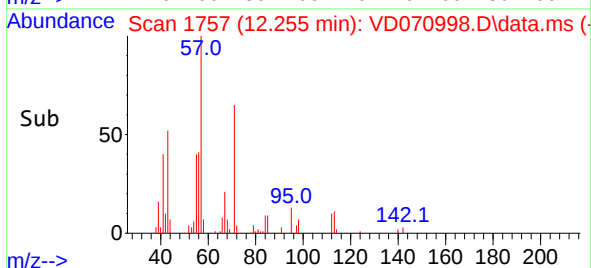
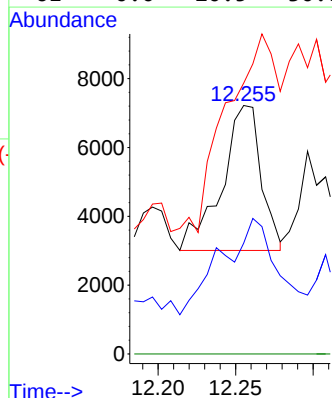
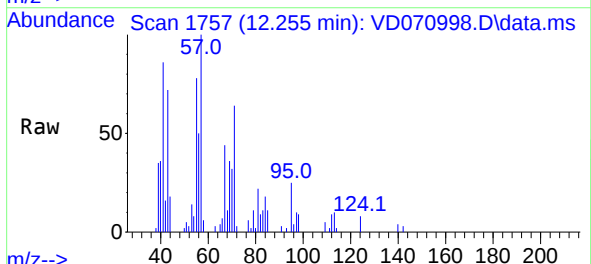


Tgt Ion:152 Resp: 282734
Ion Ratio Lower Upper
152 100
115 60.4 29.8 89.3
150 159.7 0.0 349.2

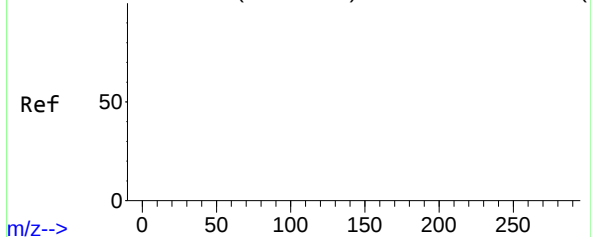


#74
N-ethyl acetate
Concen: 1.281 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

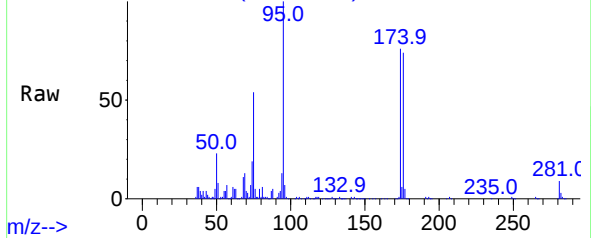
Tgt Ion: 43 Resp: 7453
Ion Ratio Lower Upper
43 100
70 94.1 36.6 55.0#
55 171.0 22.5 33.7#
61 0.0 20.5 30.7#



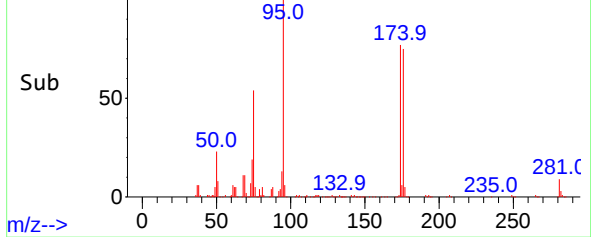
Abundance Scan 1847 (12.785 min): VD070947.D\data.ms (-



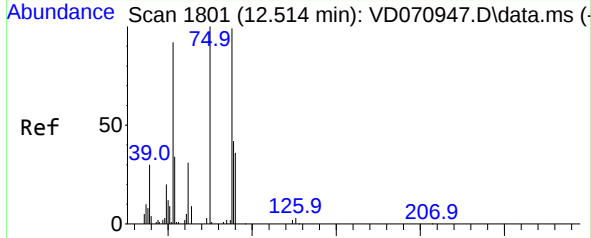
Abundance Scan 1819 (12.620 min): VD070998.D\data.ms (-



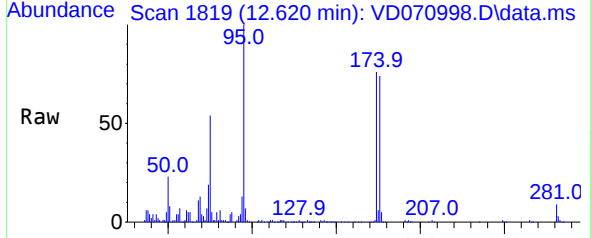
Abundance Scan 1819 (12.620 min): VD070998.D\data.ms (-



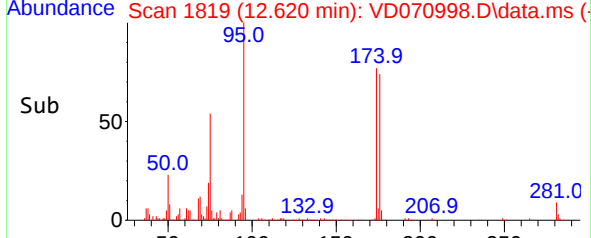
Abundance Scan 1801 (12.514 min): VD070947.D\data.ms (-



Abundance Scan 1819 (12.620 min): VD070998.D\data.ms (-



Abundance Scan 1819 (12.620 min): VD070998.D\data.ms (-

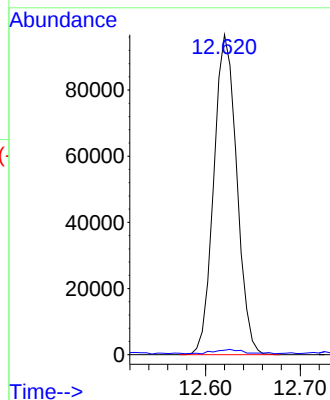


Abundance Scan 1819 (12.620 min): VD070998.D\data.ms (-

#76
1,2,3-Trichloropropane
Concen: 67.552 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.165 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 163146
Ion Ratio Lower Upper
75 100
77 1.6 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 124.750 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD070998.D
Acq: 11 Nov 2021 18:20

Tgt Ion: 75 Resp: 163146
Ion Ratio Lower Upper
75 100
53 0.2 62.6 94.0#
89 0.1 34.5 51.7#

