

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111121\
 Data File : VD070999.D
 Acq On : 11 Nov 2021 18:49
 Operator : VA/SY
 Sample : M4604-01
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

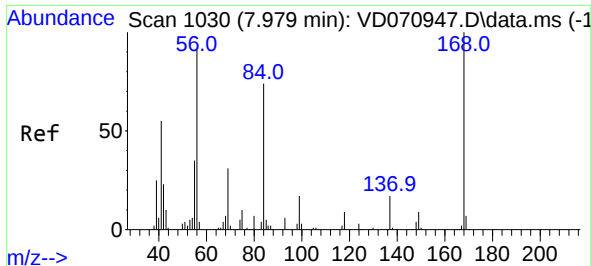
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 08:04:06 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	7.973	168	28398	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	48007	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	48969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	25421	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	19552	64.666	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	129.340%
35) Dibromofluoromethane	7.909	113	12465	46.014	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.020%
50) Toluene-d8	10.338	98	61052	57.548	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	115.100%
62) 4-Bromofluorobenzene	12.626	95	24662	64.563	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	129.120%
Target Compounds						
						Qvalue
3) Chloromethane	2.203	50	660	2.286	ug/l	# 35
5) Bromomethane	2.779	94	1090	5.759	ug/l	86
10) Methyl Iodide	4.309	142	129	6.366	ug/l	# 40
11) Tert butyl alcohol	5.209	59	308	13.939	ug/l	# 71
13) Acrolein	4.038	56	70	5.113	ug/l	# 13
16) Acetone	4.173	43	4189	67.036	ug/l	# 85
20) Methylene Chloride	4.950	84	1016	2.553	ug/l	# 69
23) Vinyl Acetate	6.315	43	69	21.089	ug/l	# 72
25) 2-Butanone	7.191	43	231	22.378	ug/l	# 45
29) Tetrahydrofuran	7.544	42	85	1.384	ug/l	# 34
31) Cyclohexane	7.973	56	1031	1.658	ug/l	# 63
36) 1,1-Dichloropropene	7.979	75	2598	6.061	ug/l	# 45
38) Carbon Tetrachloride	7.979	117	2862	7.251	ug/l	# 12
41) Methacrylonitrile	7.532	41	115	4.248	ug/l	# 12
43) Isopropyl Acetate	8.438	43	716	1.730	ug/l	# 47
48) Methyl methacrylate	9.461	41	458	2.256	ug/l	# 23
51) 4-Methyl-2-Pentanone	10.220	43	567	2.826	ug/l	# 34
59) 2-Hexanone	10.979	43	522	19.050	ug/l	# 38
76) 1,2,3-Trichloropropane	12.620	75	12846	59.158	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.620	75	12846	109.666	ug/l	# 18
90) Hexachloroethane	14.214	117	348	1.122	ug/l	# 14
92) 1,2-Dibromo-3-Chloropr...	14.649	75	55	1.064	ug/l	# 4
95) Naphthalene	15.379	128	10710	13.224	ug/l	99

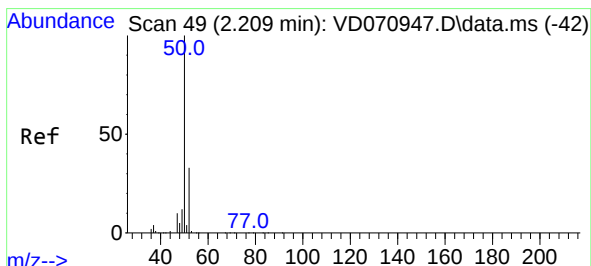
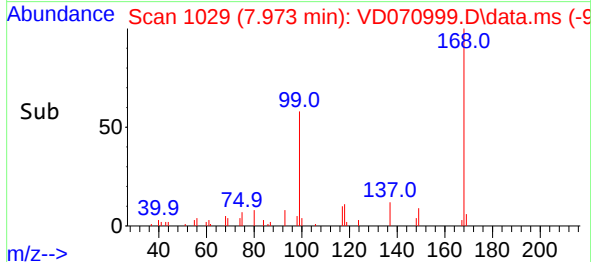
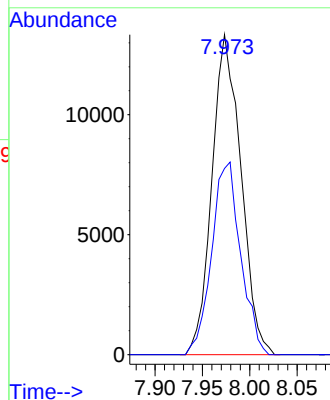
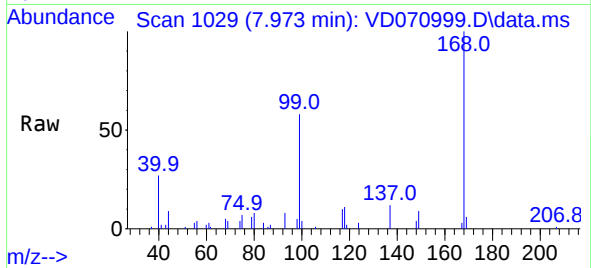
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

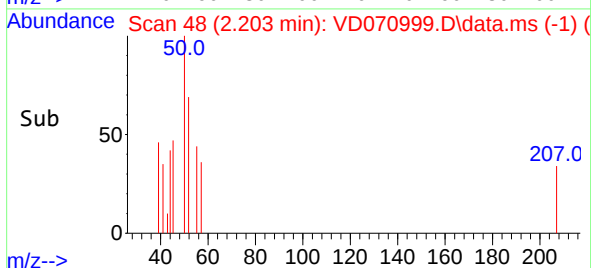
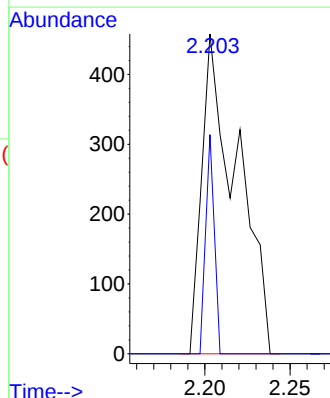
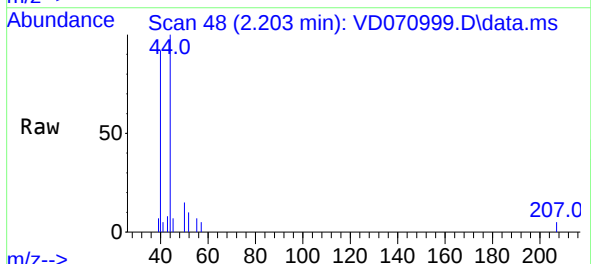
Instrument :
MSVOA_D
ClientSampleId :

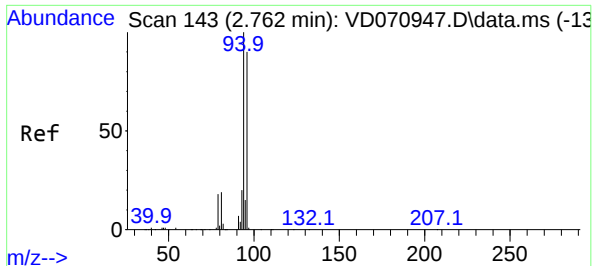
Tgt Ion:168 Resp: 28398
Ion Ratio Lower Upper
168 100
99 58.2 46.6 69.8



#3
Chloromethane
Concen: 2.286 ug/l
RT: 2.203 min Scan# 48
Delta R.T. -0.006 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Tgt Ion: 50 Resp: 660
Ion Ratio Lower Upper
50 100
52 68.6 25.8 38.8#

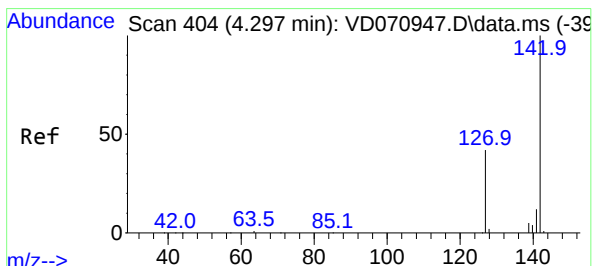
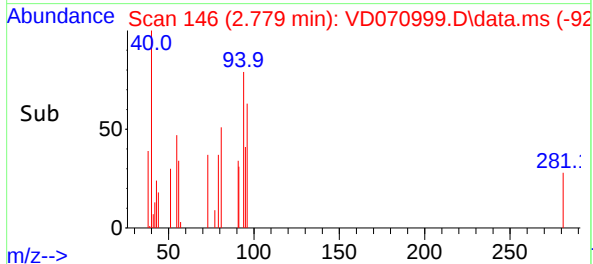
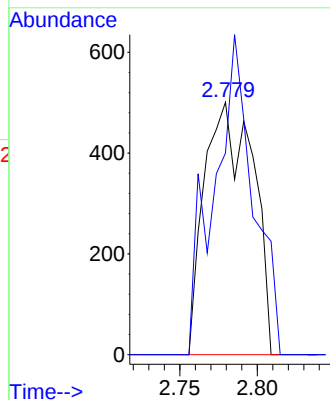
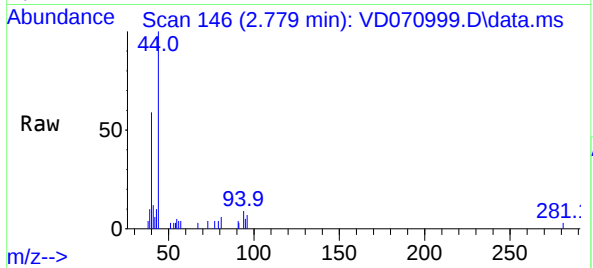




#5
Bromomethane
Concen: 5.759 ug/l
RT: 2.779 min Scan# 14
Delta R.T. 0.017 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

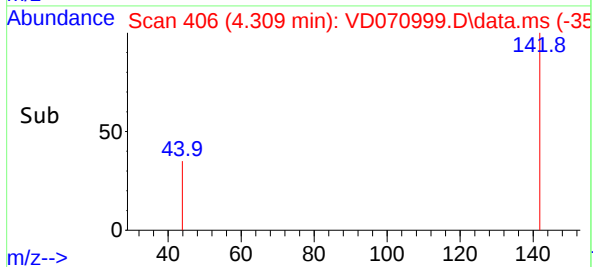
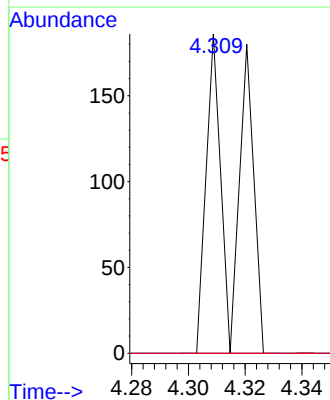
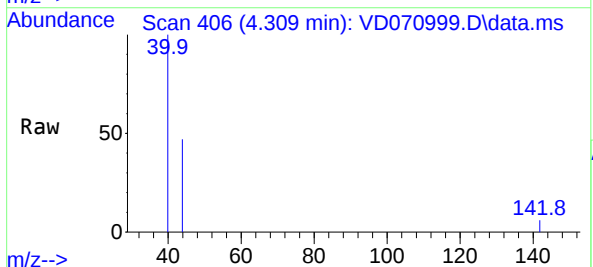
Instrument :
MSVOA_D
ClientSampleId :

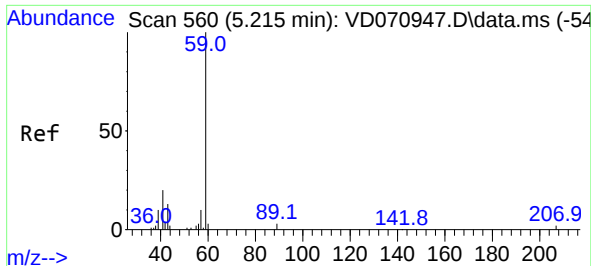
Tgt Ion: 94 Resp: 1090
Ion Ratio Lower Upper
94 100
96 79.8 74.8 112.2



#10
Methyl Iodide
Concen: 6.366 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.012 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Tgt Ion:142 Resp: 129
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: 13.939 ug/l

RT: 5.209 min Scan# 51

Delta R.T. -0.006 min

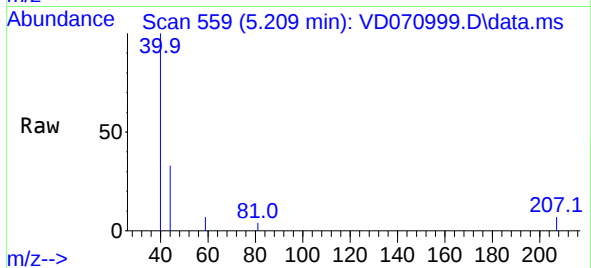
Lab File: VD070999.D

Acq: 11 Nov 2021 18:49

Instrument :

MSVOA_D

ClientSampleId :

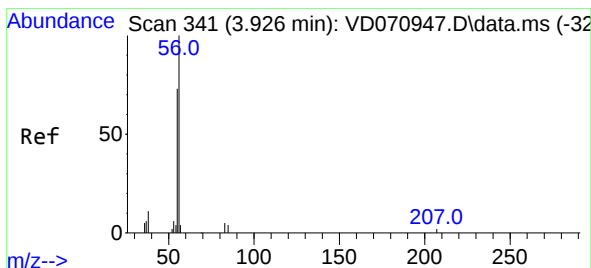
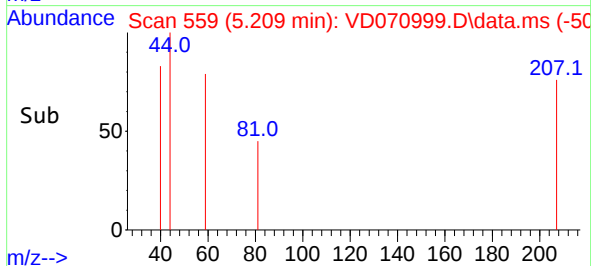
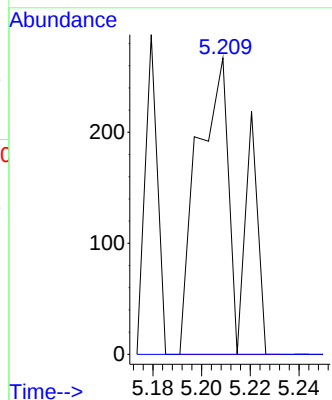


Tgt Ion: 59 Resp: 308

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#13

Acrolein

Concen: 5.113 ug/l

RT: 4.038 min Scan# 360

Delta R.T. 0.112 min

Lab File: VD070999.D

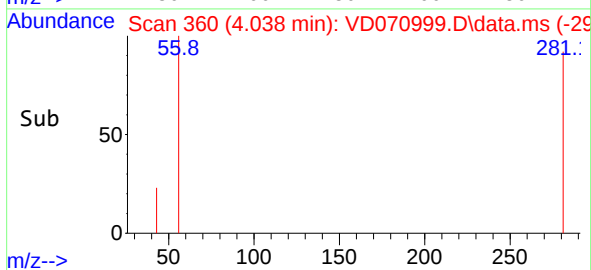
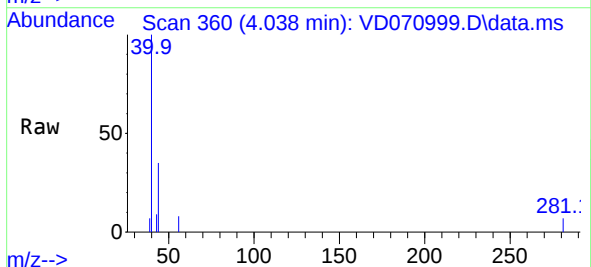
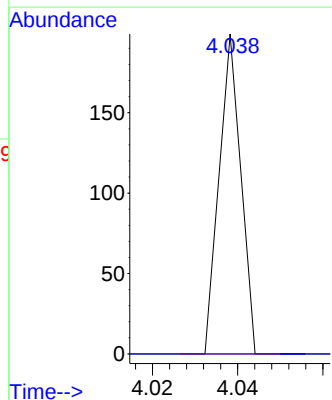
Acq: 11 Nov 2021 18:49

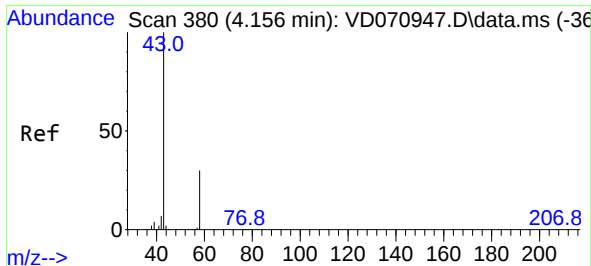
Tgt Ion: 56 Resp: 70

Ion Ratio Lower Upper

56 100

55 0.0 58.6 87.8#

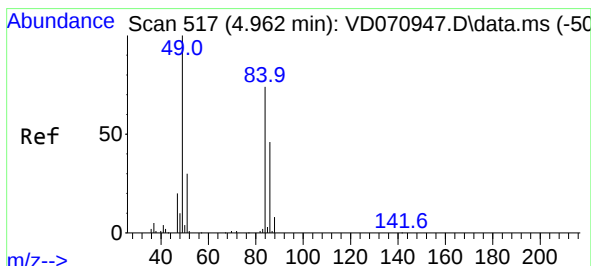
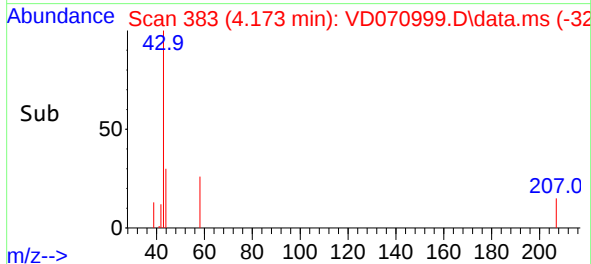
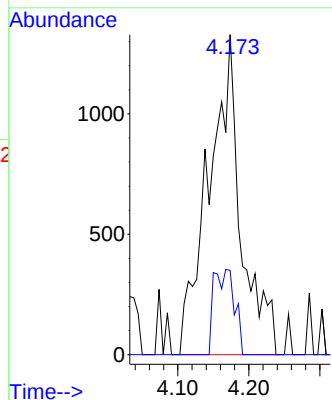
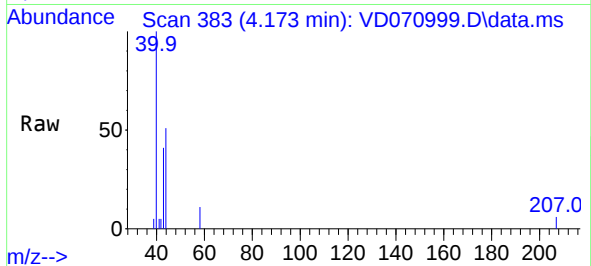




#16
Acetone
Concen: 67.036 ug/l
RT: 4.173 min Scan# 380
Delta R.T. 0.017 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

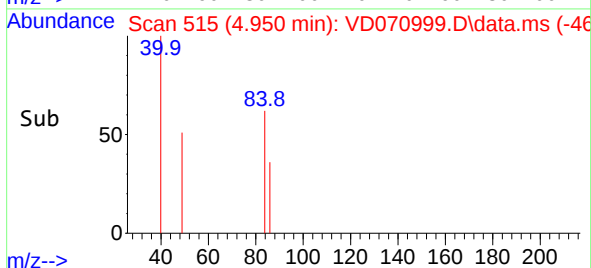
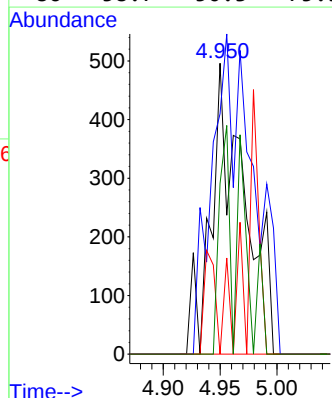
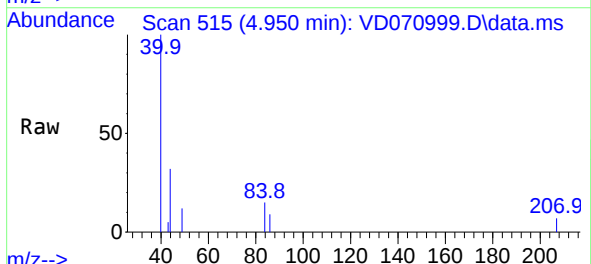
Instrument :
MSVOA_D
ClientSampleId :

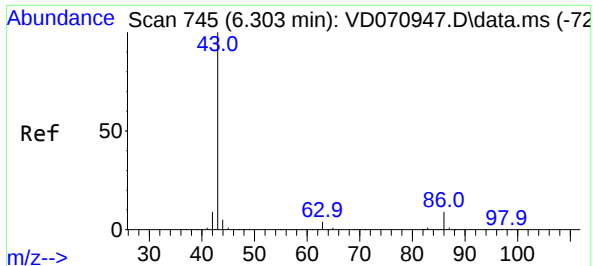
Tgt Ion: 43 Resp: 4189
Ion Ratio Lower Upper
43 100
58 26.3 27.8 41.8#



#20
Methylene Chloride
Concen: 2.553 ug/l
RT: 4.950 min Scan# 515
Delta R.T. -0.012 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Tgt Ion: 84 Resp: 1016
Ion Ratio Lower Upper
84 100
49 82.7 95.8 143.6#
51 0.0 30.9 46.3#
86 58.7 50.3 75.5

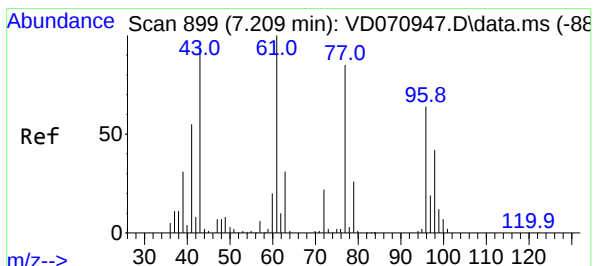
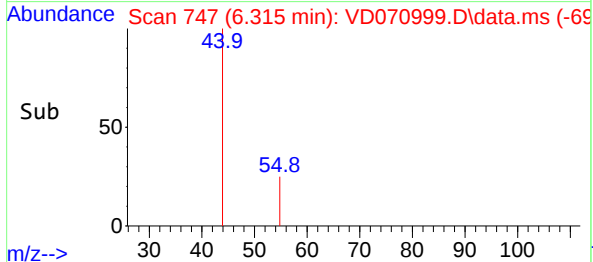
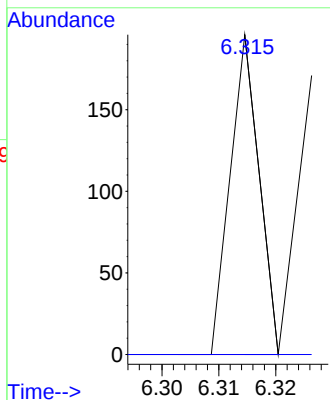
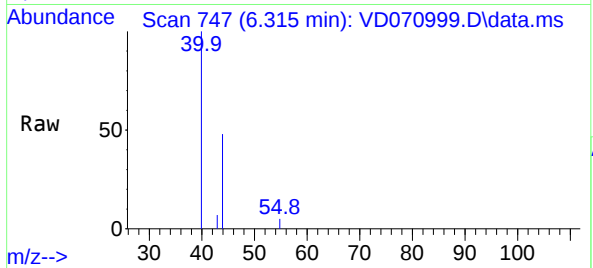




#23
 Vinyl Acetate
 Concen: 21.089 ug/l
 RT: 6.315 min Scan# 745
 Delta R.T. 0.012 min
 Lab File: VD070999.D
 Acq: 11 Nov 2021 18:49

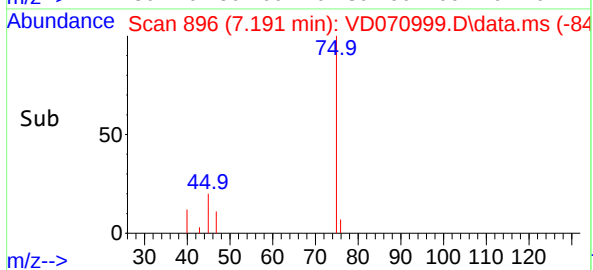
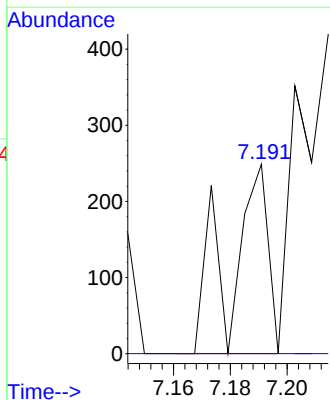
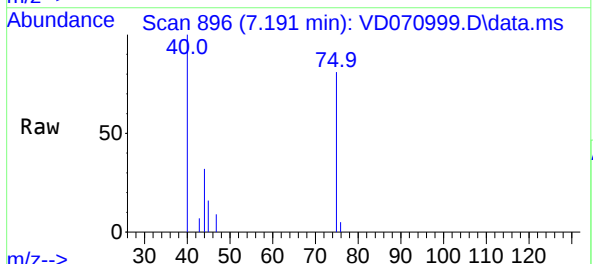
Instrument :
 MSVOA_D
 ClientSampleId :

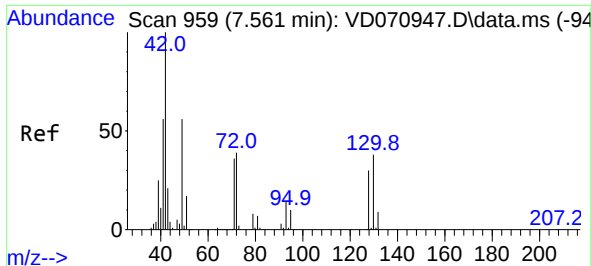
Tgt Ion: 43 Resp: 69
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 22.378 ug/l
 RT: 7.191 min Scan# 896
 Delta R.T. -0.018 min
 Lab File: VD070999.D
 Acq: 11 Nov 2021 18:49

Tgt Ion: 43 Resp: 231
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 1.384 ug/l

RT: 7.544 min Scan# 91

Delta R.T. -0.017 min

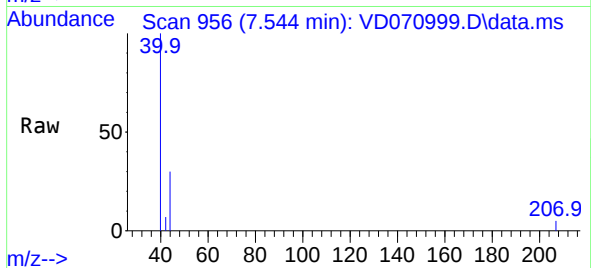
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Acq: 11 Nov 2021 18:49

Instrument :

MSVOA_D

ClientSampleId :



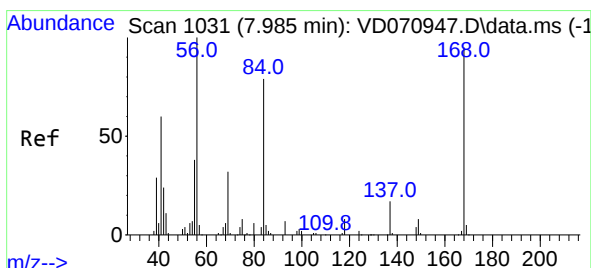
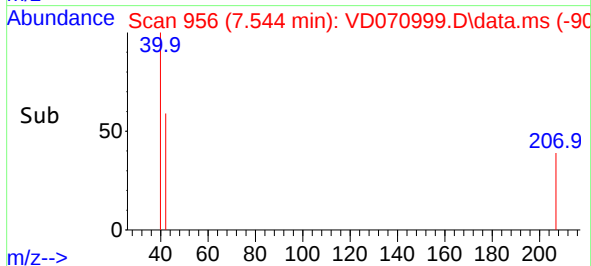
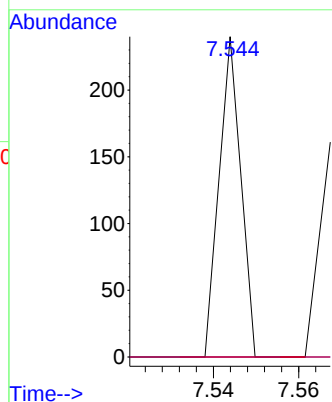
Tgt Ion: 42 Resp: 85

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#



#31

Cyclohexane

Concen: 1.658 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD070999.D

Acq: 11 Nov 2021 18:49

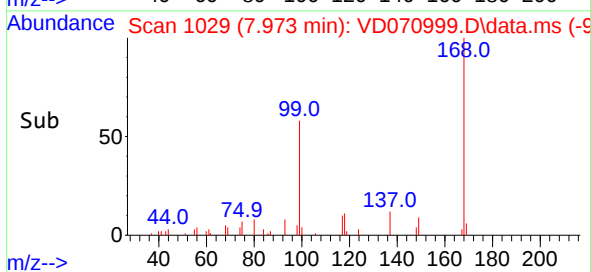
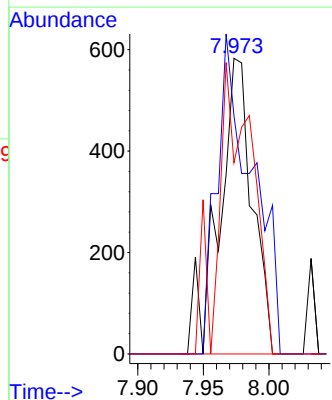
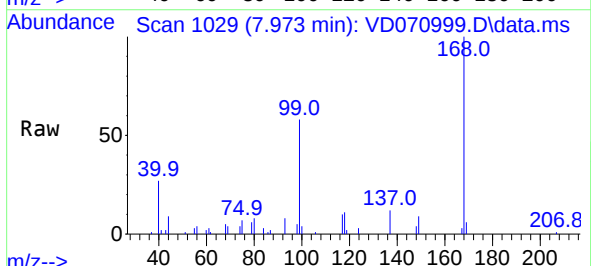
Tgt Ion: 56 Resp: 1031

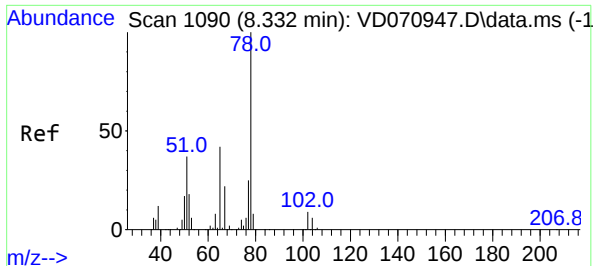
Ion Ratio Lower Upper

56 100

69 80.6 25.9 38.9#

84 64.7 64.3 96.5

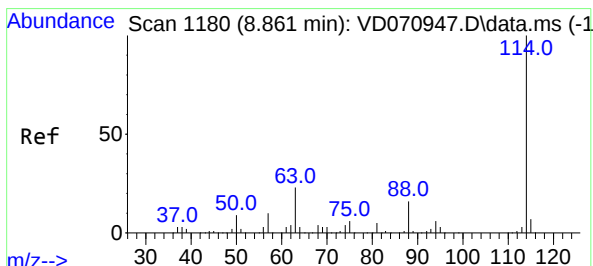
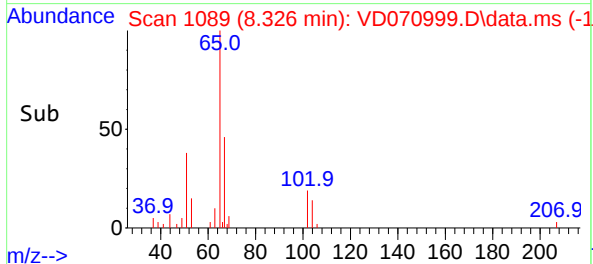
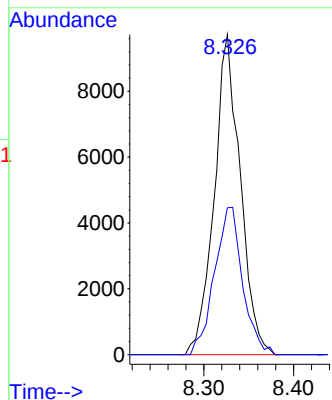
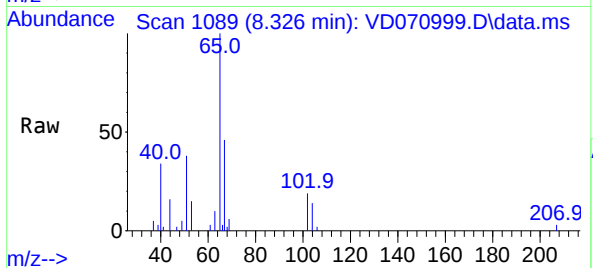




#33
1,2-Dichloroethane-d4
Concen: 64.666 ug/l
RT: 8.326 min Scan# 1108
Delta R.T. -0.006 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

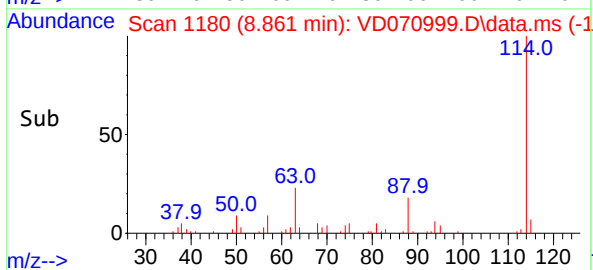
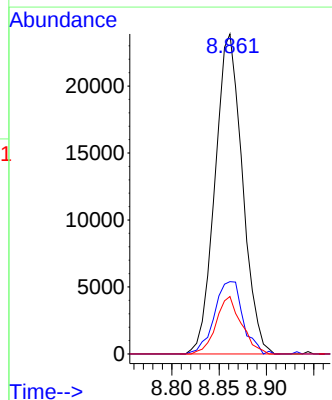
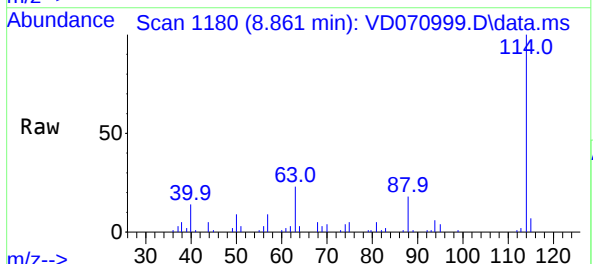
Instrument :
MSVOA_D
ClientSampleId :

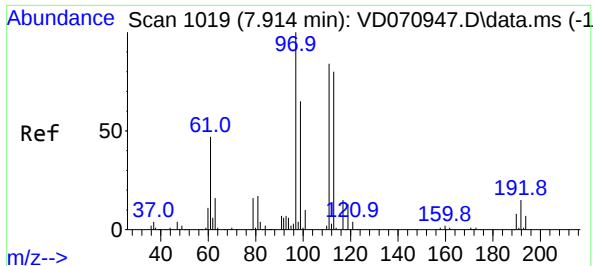
Tgt Ion: 65 Resp: 19552
Ion Ratio Lower Upper
65 100
67 49.8 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

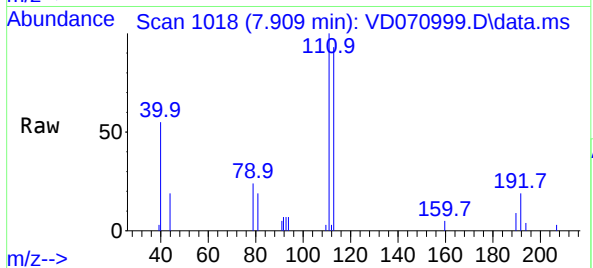
Tgt Ion: 114 Resp: 48007
Ion Ratio Lower Upper
114 100
63 22.6 0.0 41.8
88 18.0 0.0 32.8



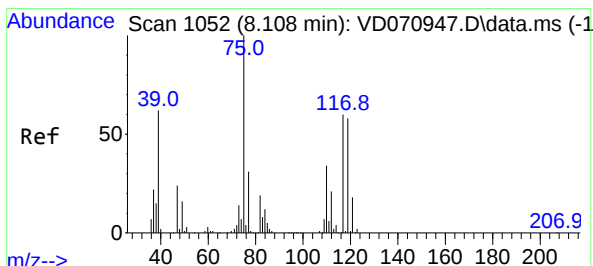
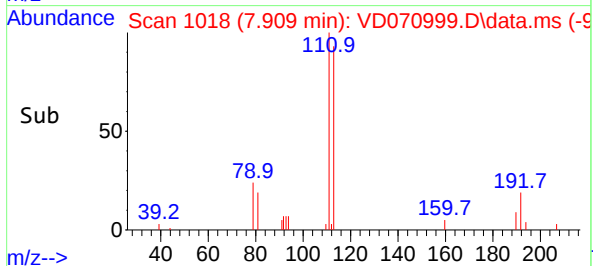
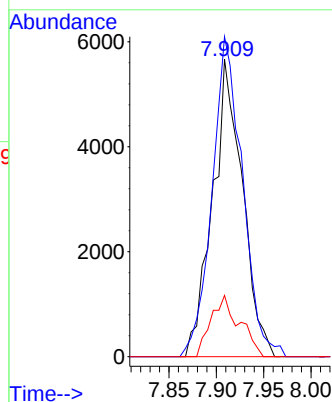


#35
Dibromofluoromethane
Concen: 46.014 ug/l
RT: 7.909 min Scan# 1019
Delta R.T. -0.005 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Instrument :
MSVOA_D
ClientSampleId :

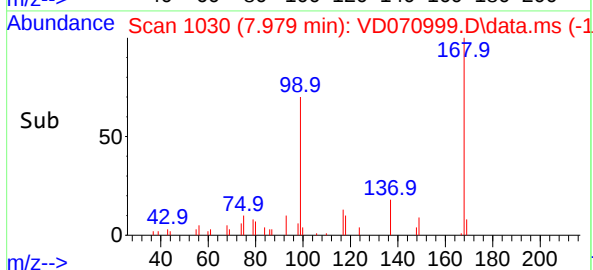
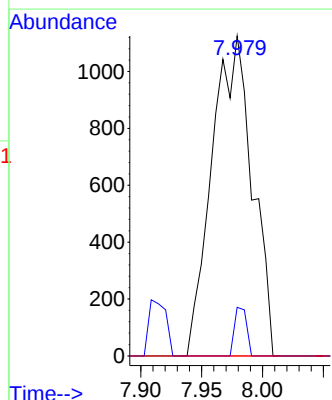
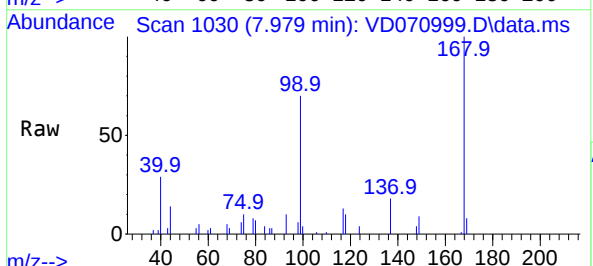


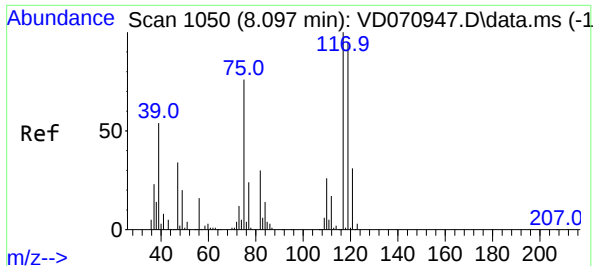
Tgt Ion:113 Resp: 12465
Ion Ratio Lower Upper
113 100
111 109.2 82.0 123.0
192 19.6 15.2 22.8



#36
1,1-Dichloropropene
Concen: 6.061 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

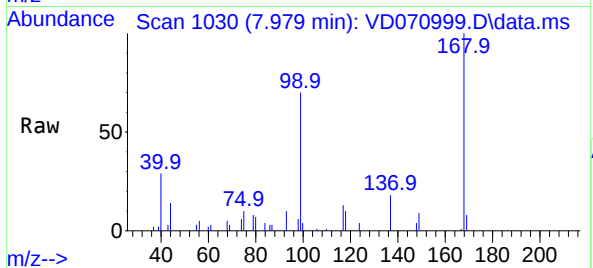
Tgt Ion: 75 Resp: 2598
Ion Ratio Lower Upper
75 100
110 4.5 17.8 53.4#
77 0.0 24.8 37.2#



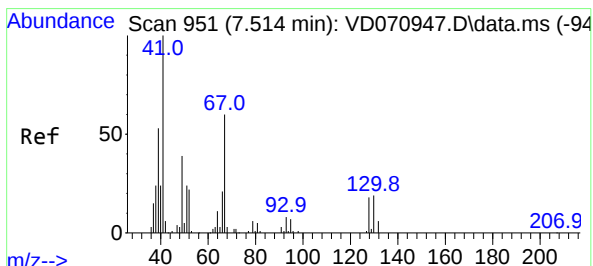
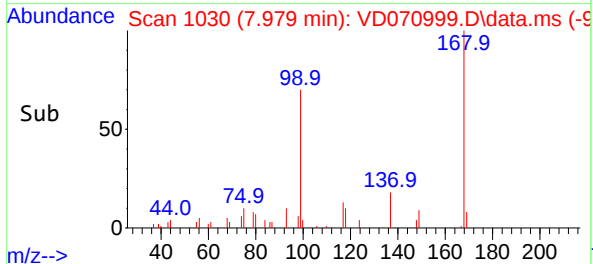
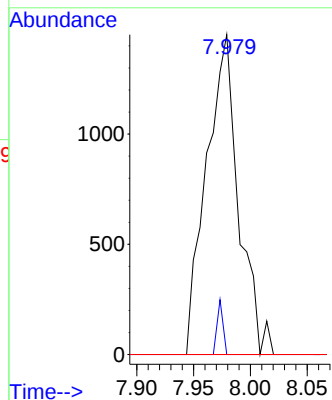


#38
Carbon Tetrachloride
Concen: 7.251 ug/l
RT: 7.979 min Scan# 1050
Delta R.T. -0.118 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Instrument :
MSVOA_D
ClientSampleId :

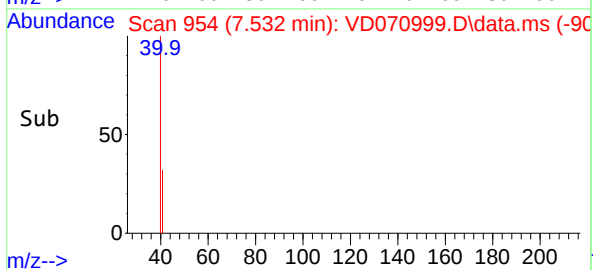
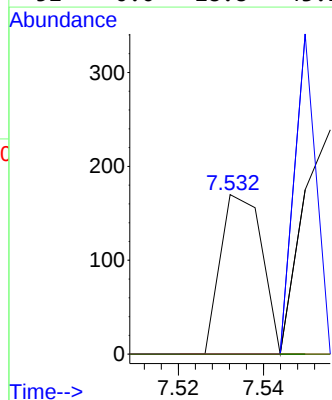
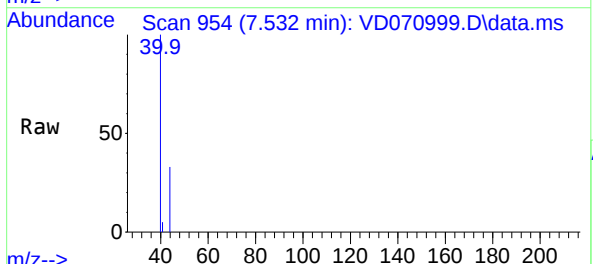


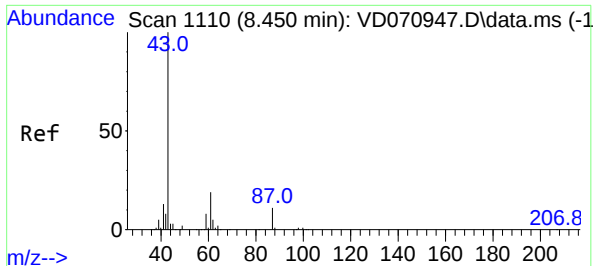
Tgt Ion:117 Resp: 2862
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 4.248 ug/l
RT: 7.532 min Scan# 954
Delta R.T. 0.018 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

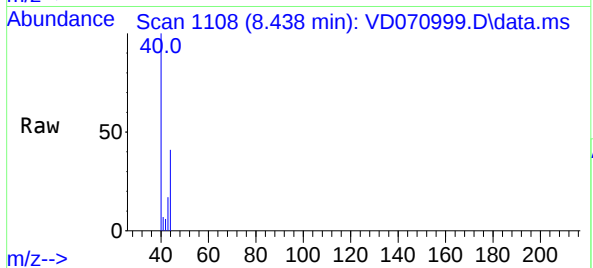
Tgt Ion: 41 Resp: 115
Ion Ratio Lower Upper
41 100
39 0.0 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#



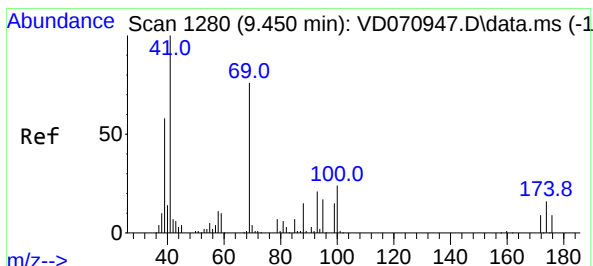
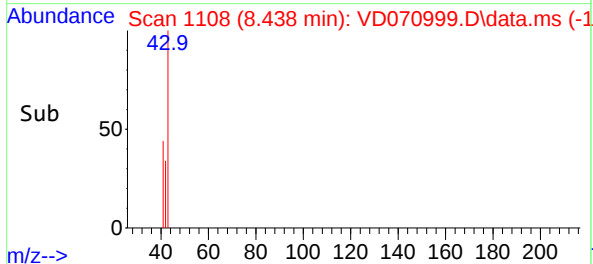
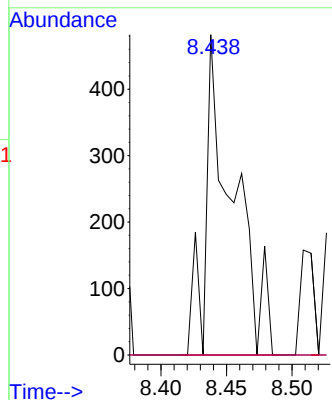


#43
Isopropyl Acetate
Concen: 1.730 ug/l
RT: 8.438 min Scan# 1110
Delta R.T. -0.012 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Instrument :
MSVOA_D
ClientSampleId :

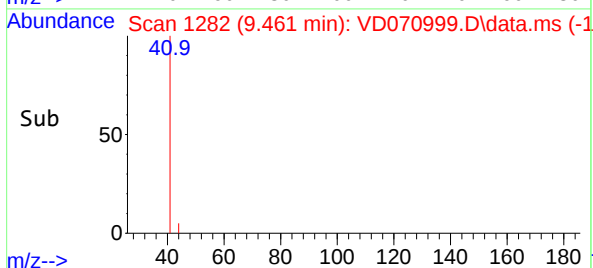
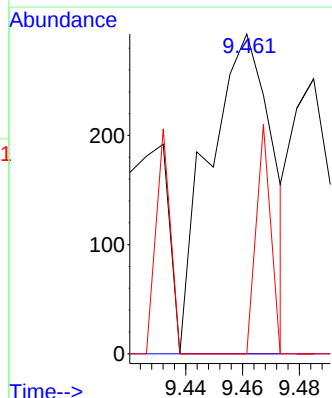
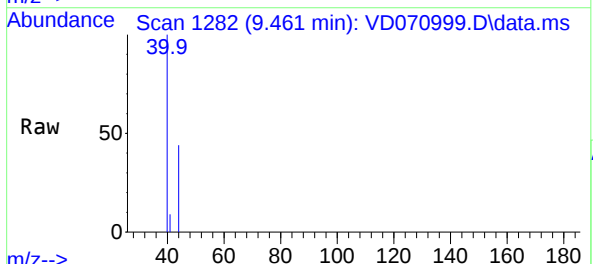


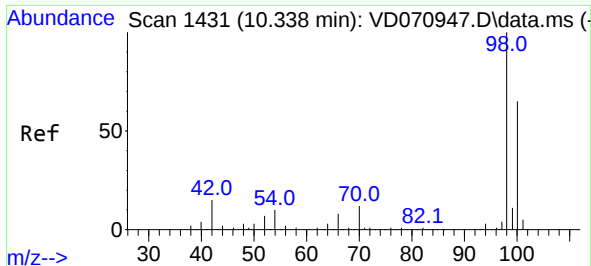
Tgt Ion: 43 Resp: 716
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#48
Methyl methacrylate
Concen: 2.256 ug/l
RT: 9.461 min Scan# 1282
Delta R.T. 0.011 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Tgt Ion: 41 Resp: 458
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 16.2 35.6 53.4#

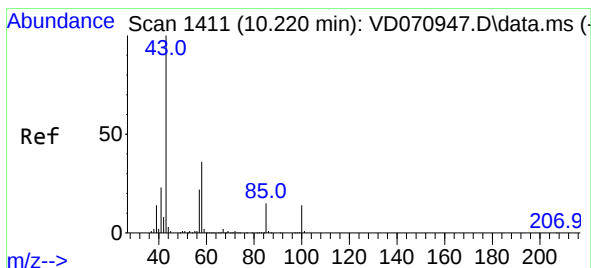
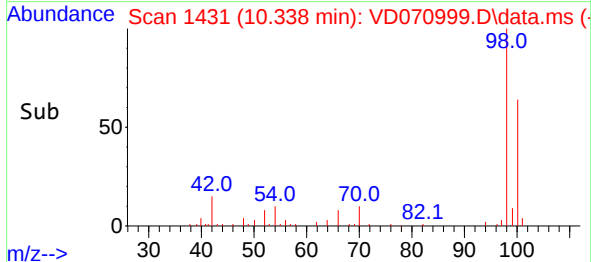
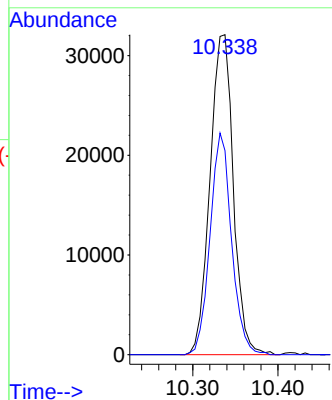
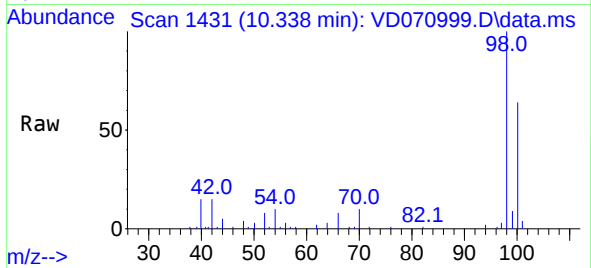




#50
Toluene-d8
Concen: 57.548 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

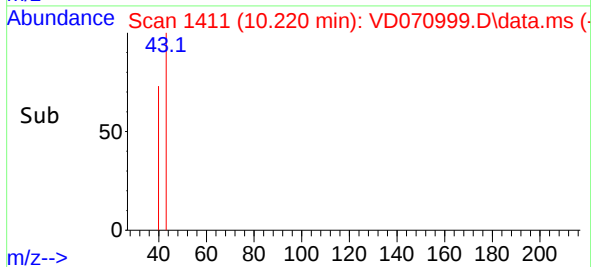
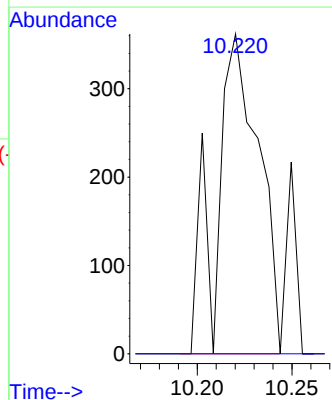
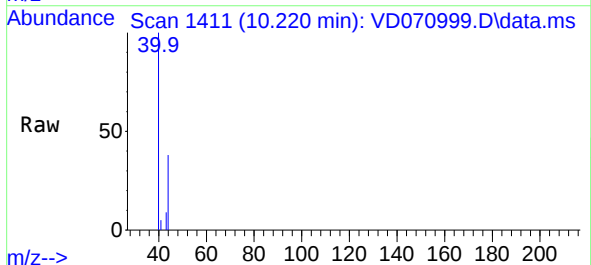
Instrument :
MSVOA_D
ClientSampleId :

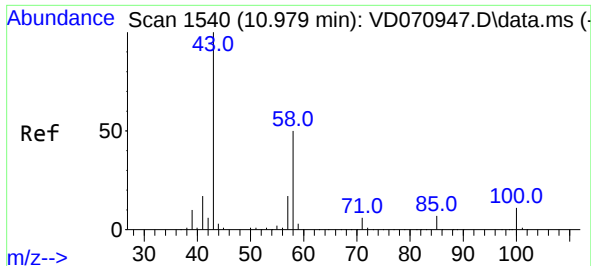
Tgt Ion: 98 Resp: 61052
Ion Ratio Lower Upper
98 100
100 63.7 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 2.826 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Tgt Ion: 43 Resp: 567
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

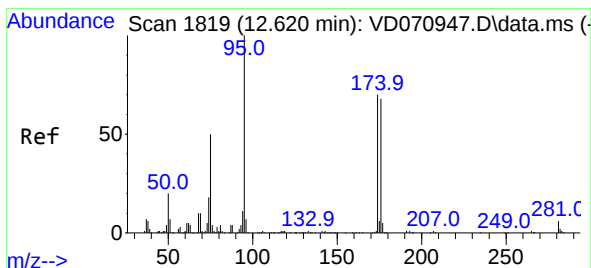
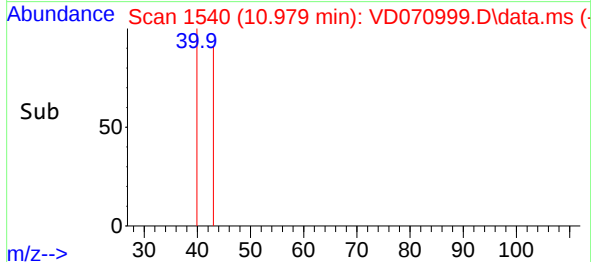
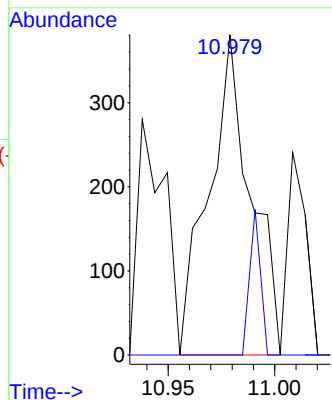
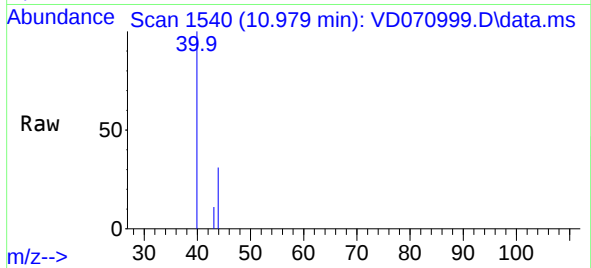




#59
2-Hexanone
Concen: 19.050 ug/l
RT: 10.979 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

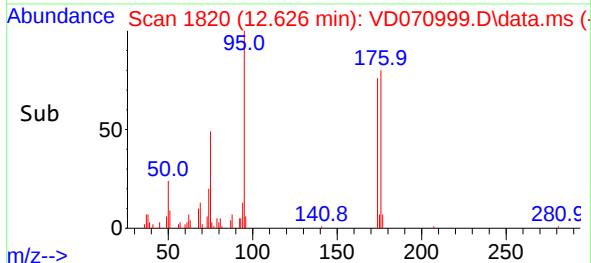
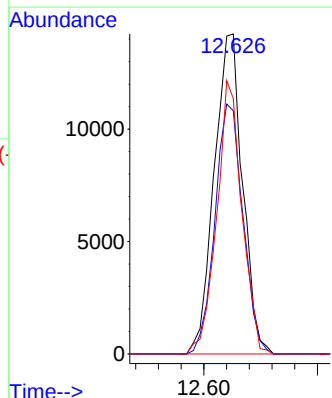
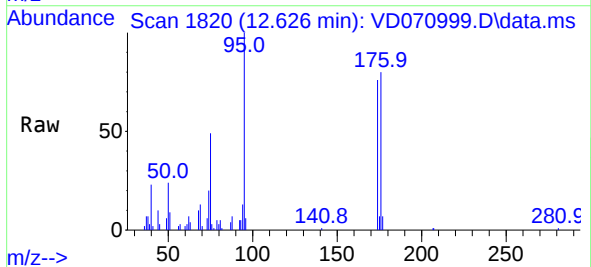
Instrument :
MSVOA_D
ClientSampleId :

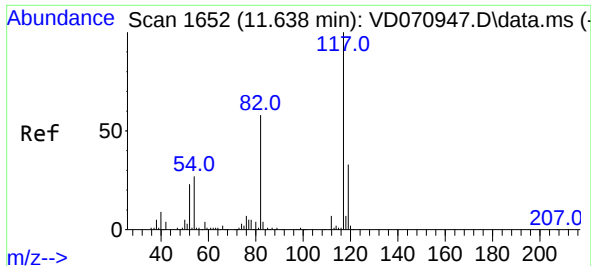
Tgt Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
58 11.7 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 64.563 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.006 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

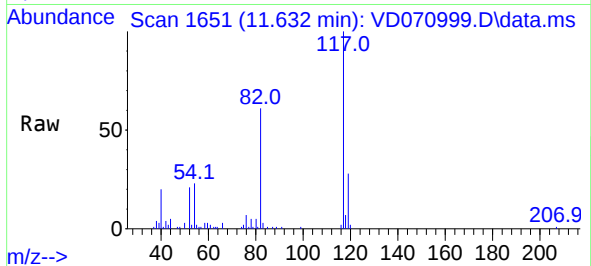
Tgt Ion: 95 Resp: 24662
Ion Ratio Lower Upper
95 100
174 77.1 0.0 159.4
176 75.6 0.0 154.0



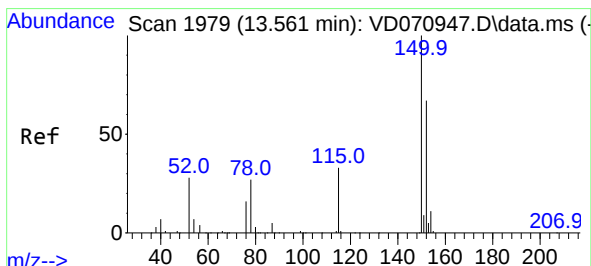
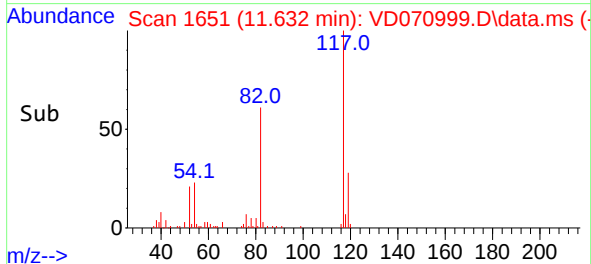
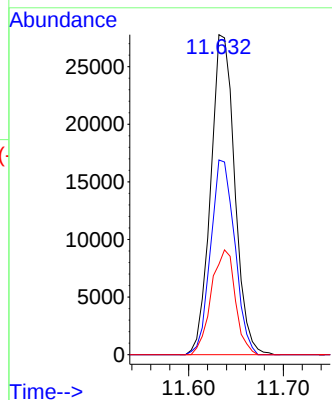


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Instrument :
MSVOA_D
ClientSampleId :

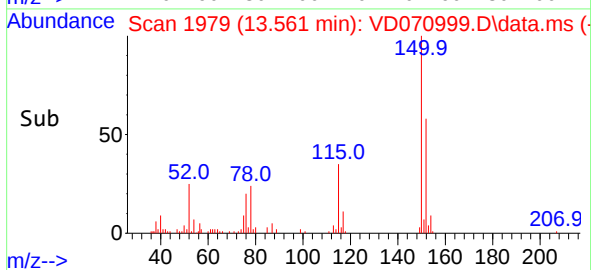
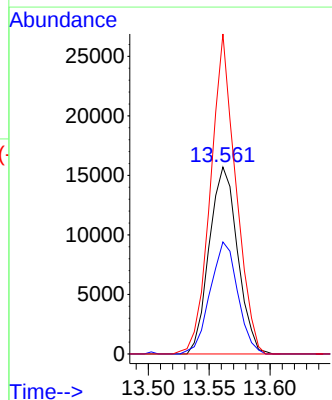
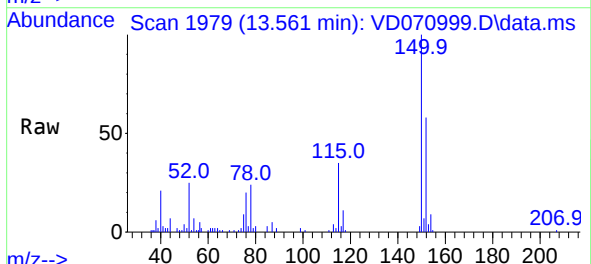


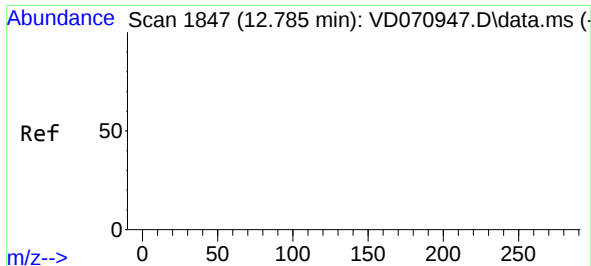
Tgt Ion:117 Resp: 48969
Ion Ratio Lower Upper
117 100
82 60.9 44.7 67.1
119 28.3 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Tgt Ion:152 Resp: 25421
Ion Ratio Lower Upper
152 100
115 58.4 29.8 89.3
150 153.2 0.0 349.2

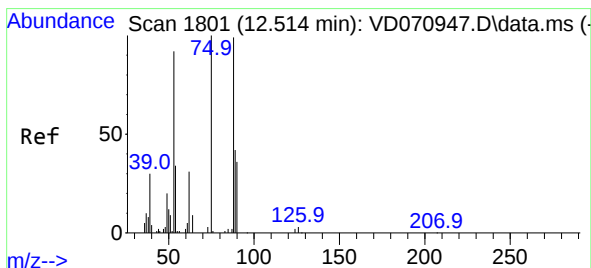
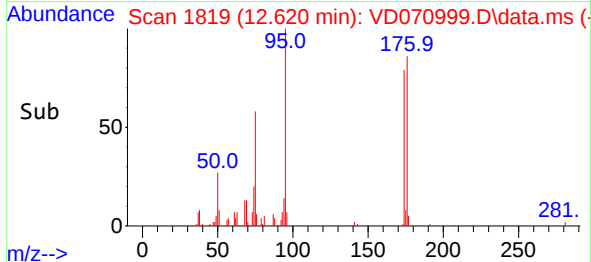
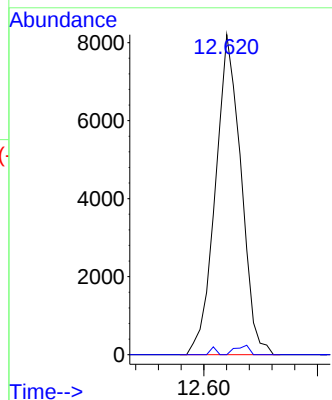
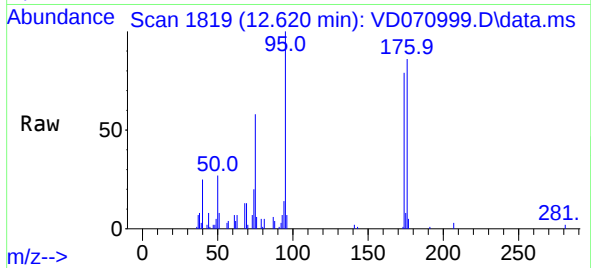




#76
1,2,3-Trichloropropane
Concen: 59.158 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.165 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

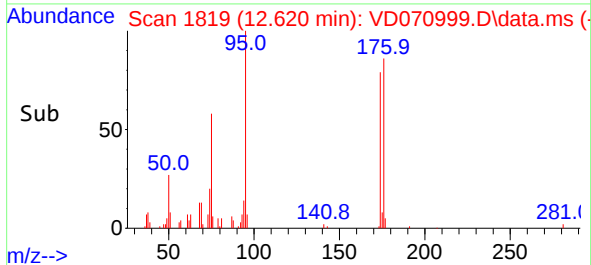
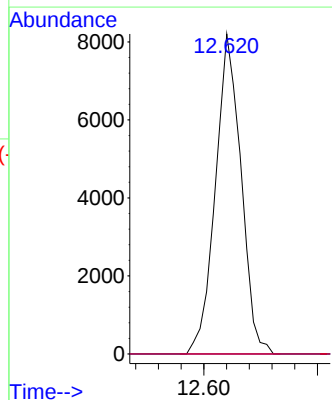
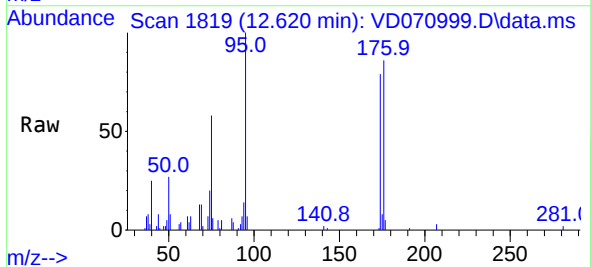
Instrument :
MSVOA_D
ClientSampleId :

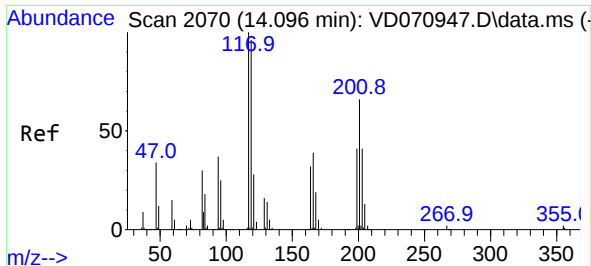
Tgt Ion: 75 Resp: 12846
Ion Ratio Lower Upper
75 100
77 0.6 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 109.666 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Tgt Ion: 75 Resp: 12846
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

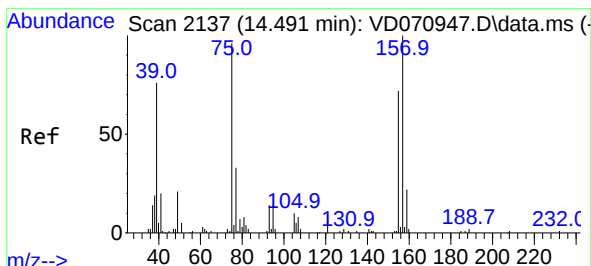
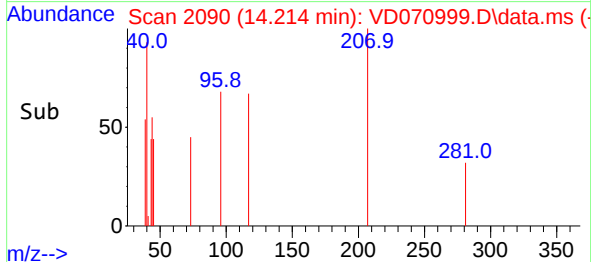
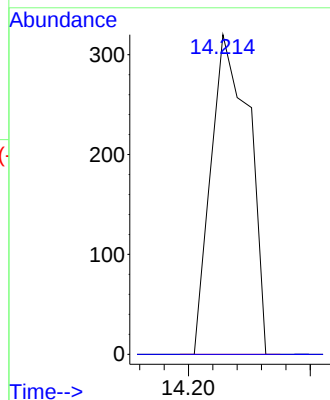
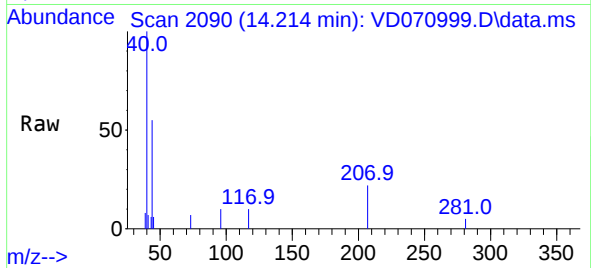




#90
Hexachloroethane
Concen: 1.122 ug/l
RT: 14.214 min Scan# 2070
Delta R.T. 0.118 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

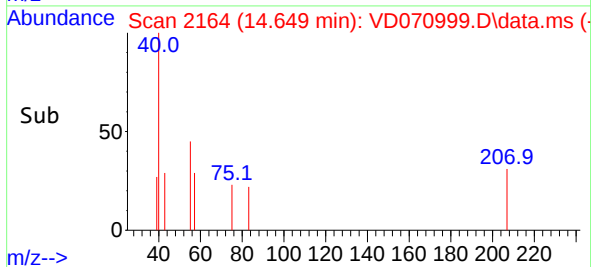
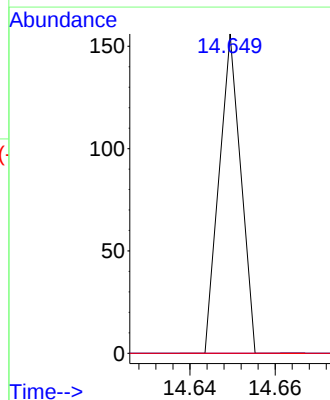
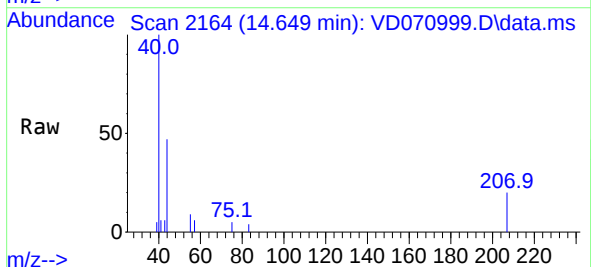
Instrument :
MSVOA_D
ClientSampleId :

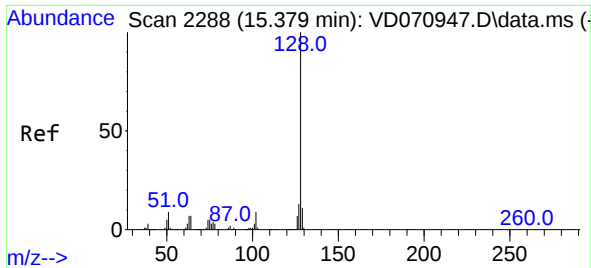
Tgt Ion:117 Resp: 348
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.064 ug/l
RT: 14.649 min Scan# 2164
Delta R.T. 0.158 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

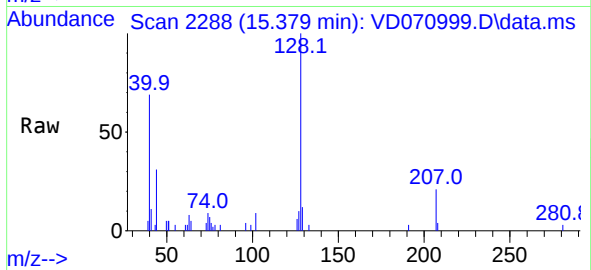
Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#





#95
Naphthalene
Concen: 13.224 ug/l
RT: 15.379 min Scan# 21
Delta R.T. -0.000 min
Lab File: VD070999.D
Acq: 11 Nov 2021 18:49

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 10710
Ion Ratio Lower Upper
128 100
127 14.0 10.7 16.1
129 10.9 8.7 13.1

