

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121021\
 Data File : VD071248.D
 Acq On : 10 Dec 2021 13:36
 Operator : VA/SY
 Sample : M4967-04RE
 Misc : 5.08G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 15:25:33 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)

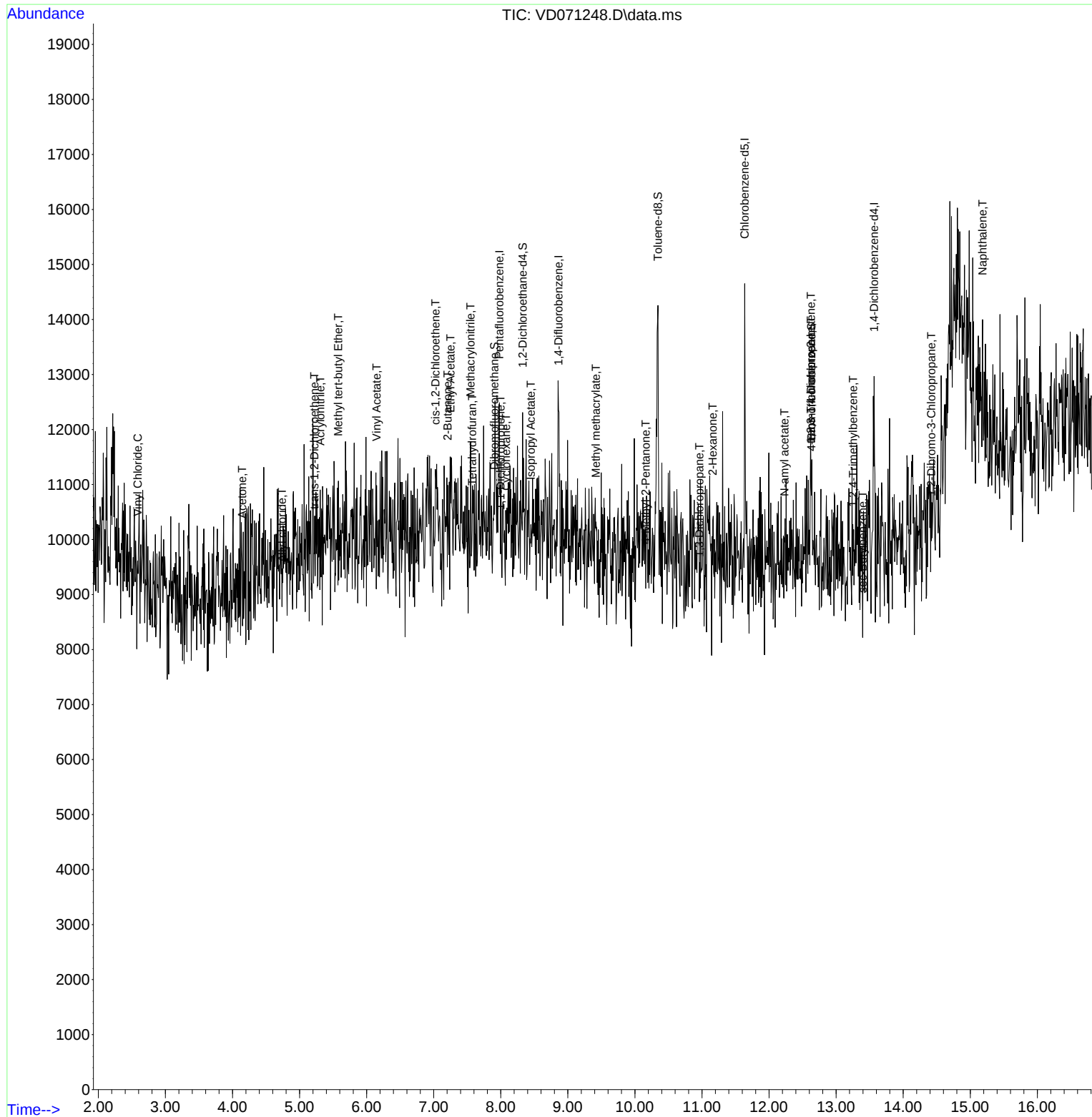
Internal Standards						
1) Pentafluorobenzene	7.979	168	1716	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	2826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	2277	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	474	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	1320	65.557	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 131.120%	
35) Dibromofluoromethane	7.902	113	847	47.067	ug/l	-0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	= 94.140%	
50) Toluene-d8	10.343	98	3018	44.069	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 88.140%	
62) 4-Bromofluorobenzene	12.632	95	931	39.219	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 78.440%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.585	62	72	3.334	ug/l #	42
14) Allyl chloride	4.738	41	67	2.214	ug/l #	1
15) Acrylonitrile	5.308	53	78	20.220	ug/l #	19
16) Acetone	4.144	43	55	39.816	ug/l #	40
19) Methyl tert-butyl Ether	5.579	73	67	1.716	ug/l #	52
21) trans-1,2-Dichloroethene	5.220	96	59	3.290	ug/l #	1
23) Vinyl Acetate	6.150	43	55	28.713	ug/l #	72
25) 2-Butanone	7.208	43	197	56.642	ug/l #	45
27) cis-1,2-Dichloroethene	7.026	96	58	2.859	ug/l #	1
29) Tetrahydrofuran	7.573	42	80	25.021	ug/l #	46
31) Cyclohexane	8.079	56	70	2.044	ug/l #	19
36) 1,1-Dichloropropene	7.997	75	57	2.158	ug/l #	41
37) Ethyl Acetate	7.250	43	72	6.311	ug/l #	66
41) Methacrylonitrile	7.550	41	63	9.091	ug/l #	1
43) Isopropyl Acetate	8.449	43	54	7.149	ug/l #	47
48) Methyl methacrylate	9.420	41	60	5.373	ug/l #	15
51) 4-Methyl-2-Pentanone	10.161	43	58	34.607	ug/l #	34
57) 1,3-Dichloropropane	10.961	76	75	3.325	ug/l #	24
59) 2-Hexanone	11.161	43	61	39.996	ug/l #	22
74) N-amyl acetate	12.232	43	134	18.335	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	457	101.194	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	457	215.129	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.255	105	56	2.027	ug/l #	31
85) sec-Butylbenzene	13.396	105	63	1.697	ug/l #	57
92) 1,2-Dibromo-3-Chloropr...	14.420	75	55	59.754	ug/l #	4
95) Naphthalene	15.184	128	54	3.902	ug/l #	69

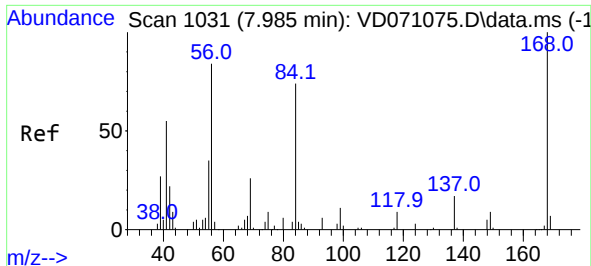
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD071248.D
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ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :

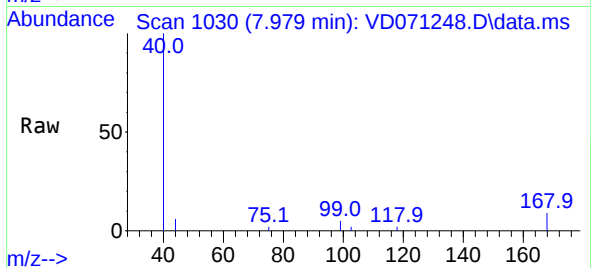
Quant Time: Dec 10 15:25:33 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
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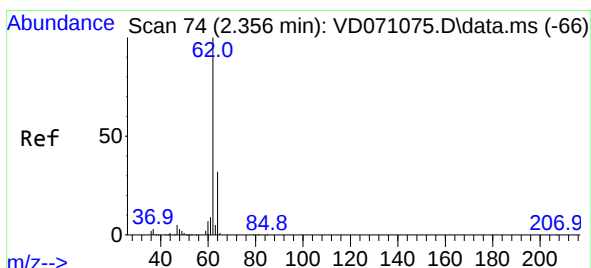
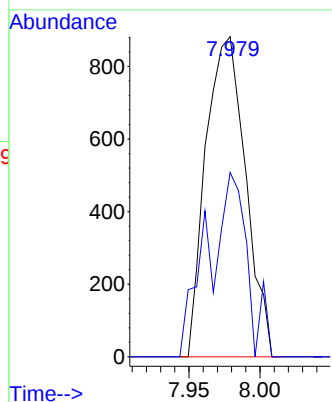
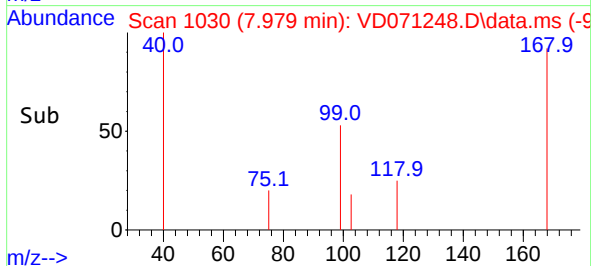


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 110
Delta R.T. -0.006 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Instrument :
MSVOA_D
ClientSampleId :

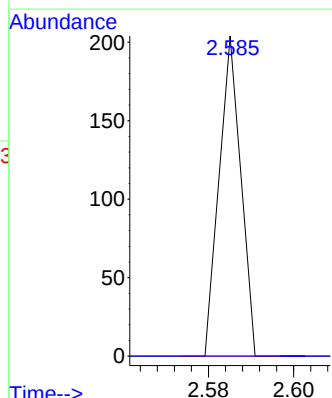
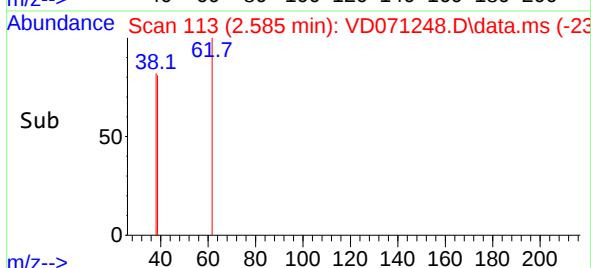
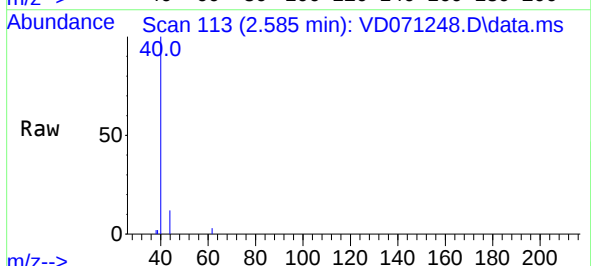


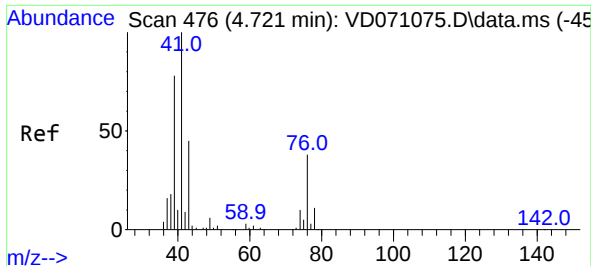
Tgt Ion:168 Resp: 1716
Ion Ratio Lower Upper
168 100
99 57.6 46.6 69.8



#4
Vinyl Chloride
Concen: 3.334 ug/l
RT: 2.585 min Scan# 113
Delta R.T. 0.229 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

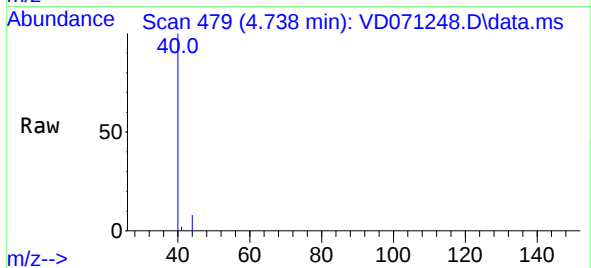
Tgt Ion: 62 Resp: 72
Ion Ratio Lower Upper
62 100
64 0.0 26.0 39.0#



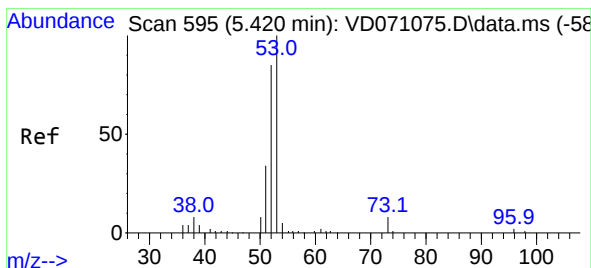
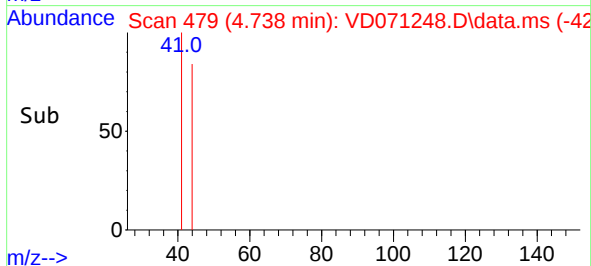
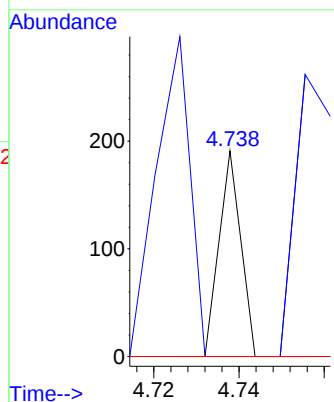


#14
 Allyl chloride
 Concen: 2.214 ug/l
 RT: 4.738 min Scan# 41
 Delta R.T. 0.017 min
 Lab File: VD071248.D
 Acq: 10 Dec 2021 13:36

Instrument :
 MSVOA_D
 ClientSampleId :

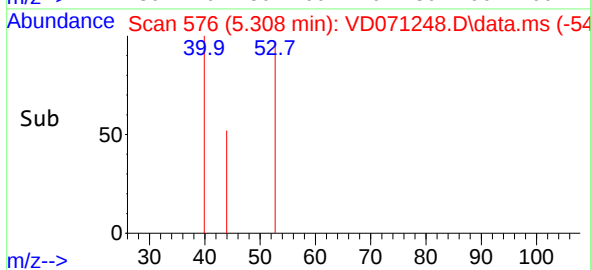
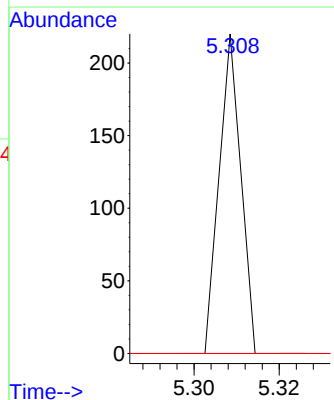
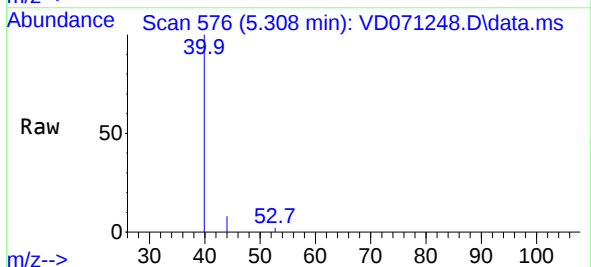


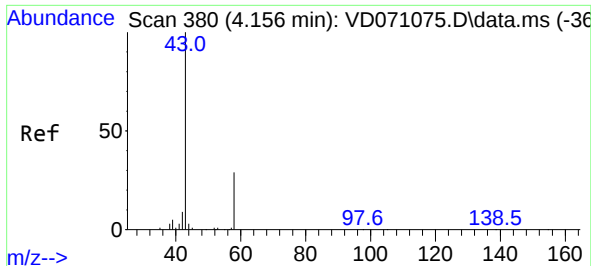
Tgt Ion: 41	Resp: 67
Ion Ratio	Lower Upper
41 100	
39 244.8	45.6 68.4#
76 0.0	30.2 45.4#



#15
 Acrylonitrile
 Concen: 20.220 ug/l
 RT: 5.308 min Scan# 576
 Delta R.T. -0.112 min
 Lab File: VD071248.D
 Acq: 10 Dec 2021 13:36

Tgt Ion: 53	Resp: 78
Ion Ratio	Lower Upper
53 100	
52 0.0	63.8 95.8#
51 0.0	28.5 42.7#

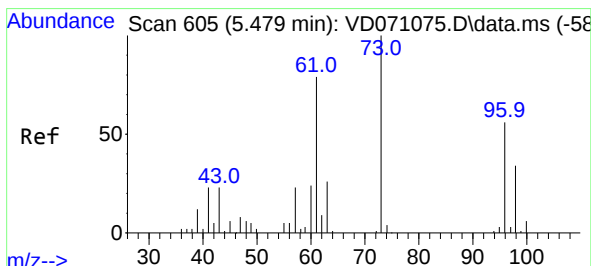
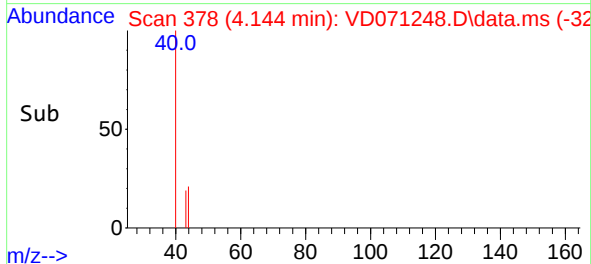
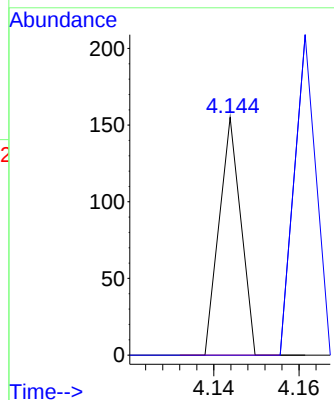
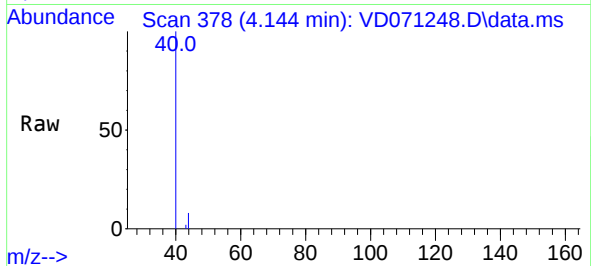




#16
Acetone
Concen: 39.816 ug/l
RT: 4.144 min Scan# 31
Delta R.T. -0.012 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

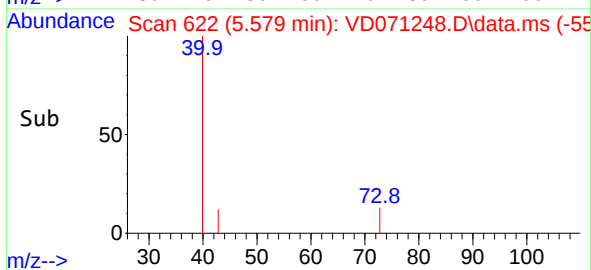
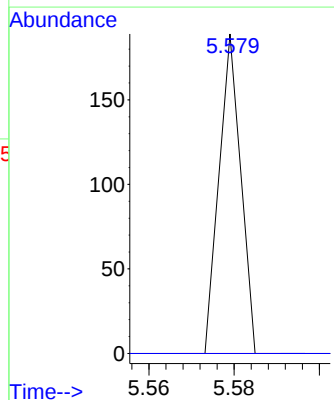
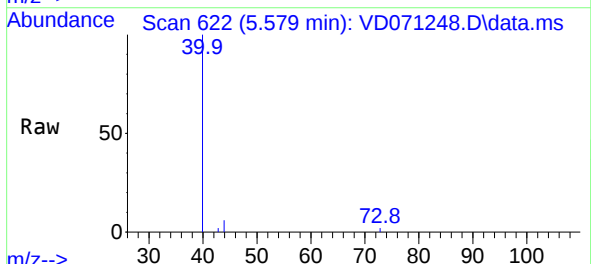
Instrument :
MSVOA_D
ClientSampleId :

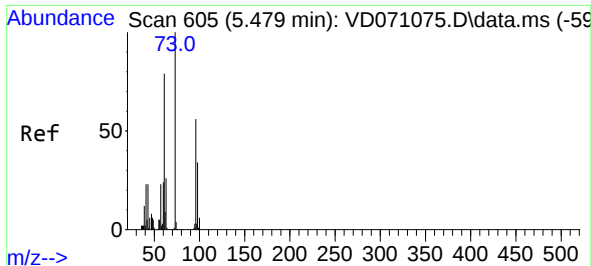
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#19
Methyl tert-butyl Ether
Concen: 1.716 ug/l
RT: 5.579 min Scan# 622
Delta R.T. 0.100 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

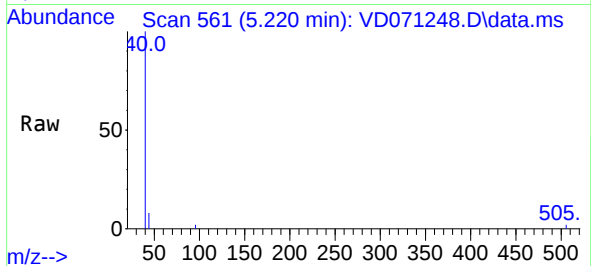
Tgt Ion: 73 Resp: 67
Ion Ratio Lower Upper
73 100
57 0.0 18.9 28.3#



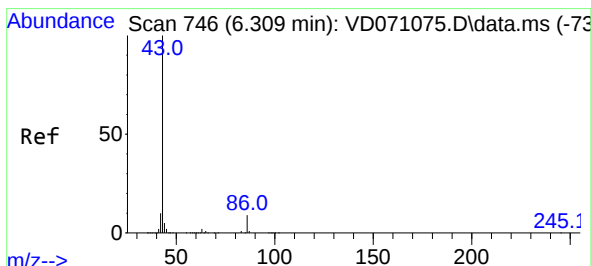
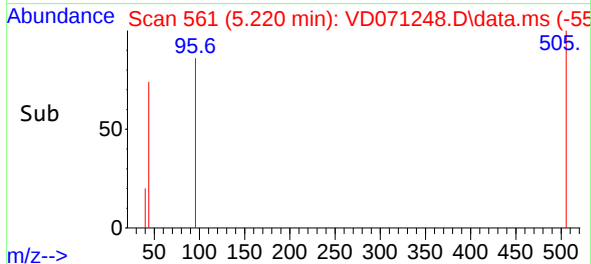
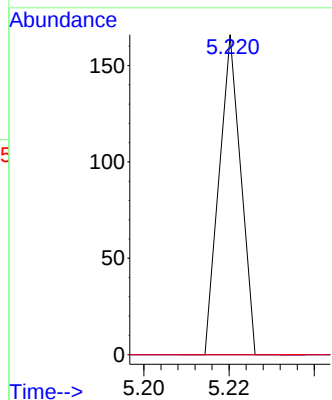


#21
trans-1,2-Dichloroethene
Concen: 3.290 ug/l
RT: 5.220 min Scan# 50
Delta R.T. -0.259 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Instrument :
MSVOA_D
ClientSampleId :

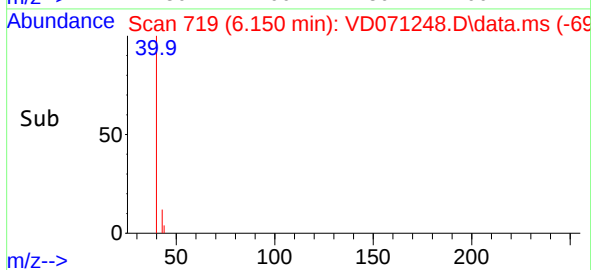
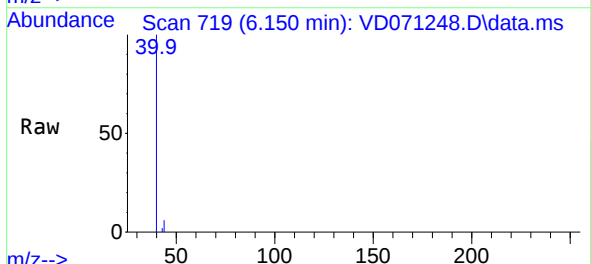
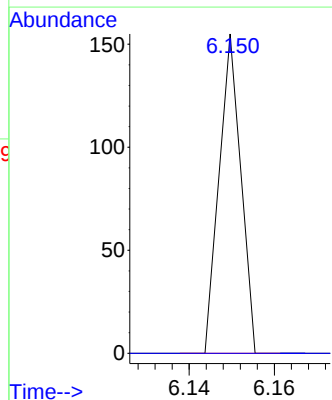


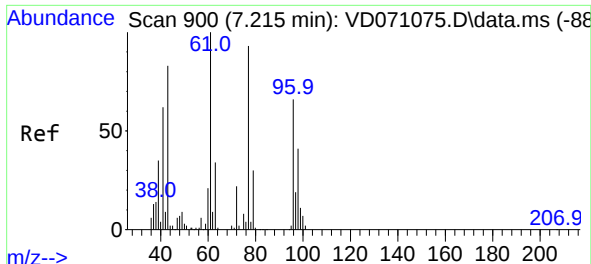
Tgt Ion: 96 Resp: 59
Ion Ratio Lower Upper
96 100
61 0.0 102.1 153.1#
98 0.0 50.1 75.1#



#23
Vinyl Acetate
Concen: 28.713 ug/l
RT: 6.150 min Scan# 719
Delta R.T. -0.159 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#





#25

2-Butanone

Concen: 56.642 ug/l

RT: 7.208 min Scan# 899

Delta R.T. -0.007 min

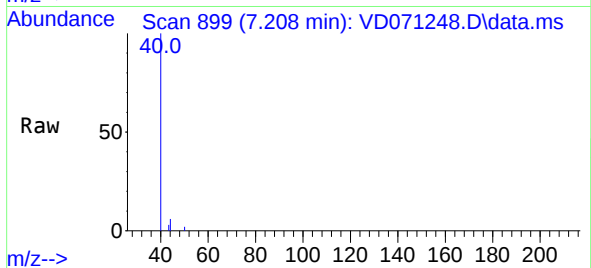
Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Instrument :

MSVOA_D

ClientSampleId :

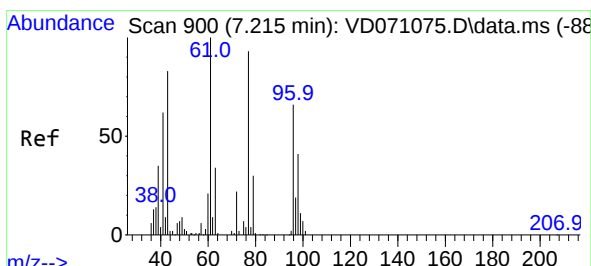
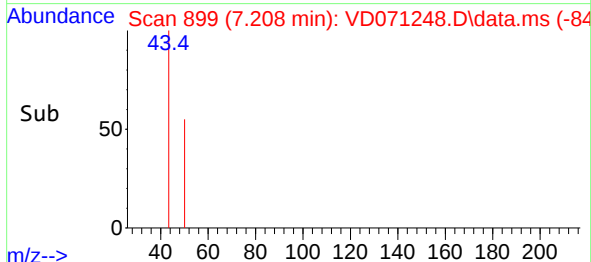
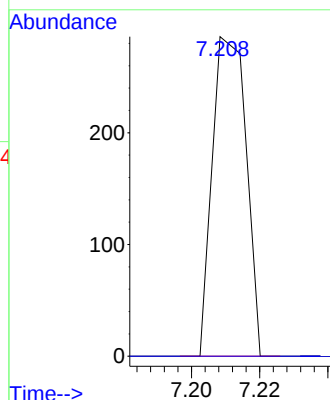


Tgt Ion: 43 Resp: 197

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#27

cis-1,2-Dichloroethene

Concen: 2.859 ug/l

RT: 7.026 min Scan# 868

Delta R.T. -0.189 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

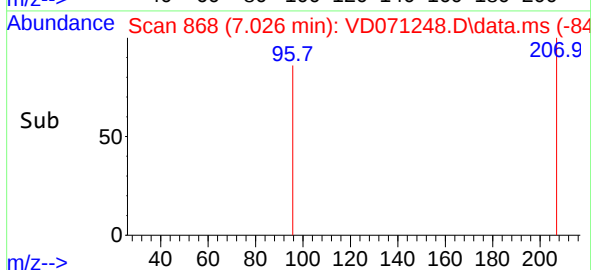
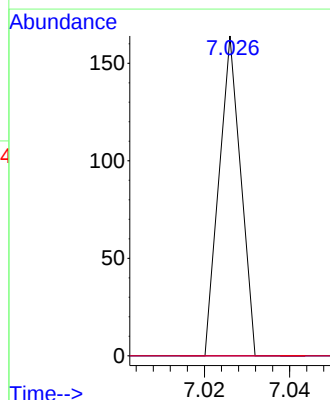
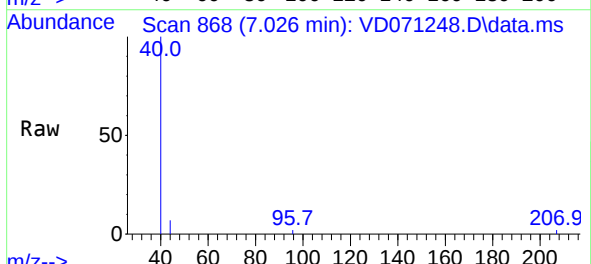
Tgt Ion: 96 Resp: 58

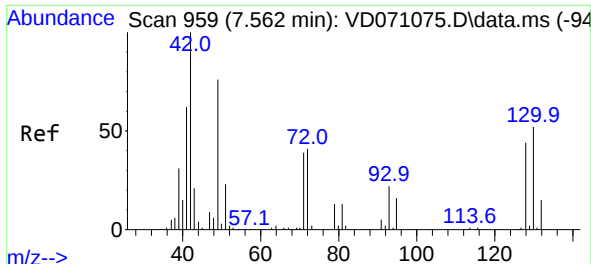
Ion Ratio Lower Upper

96 100

61 0.0 0.0 288.6

98 0.0 0.0 129.2





#29

Tetrahydrofuran

Concen: 25.021 ug/l

RT: 7.573 min Scan# 90

Delta R.T. 0.011 min

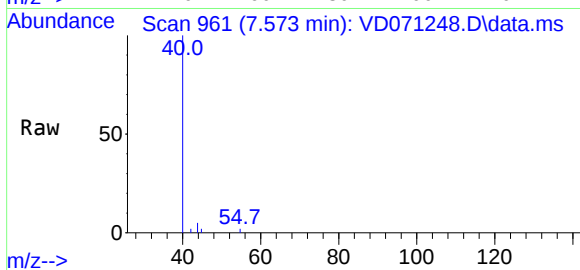
Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

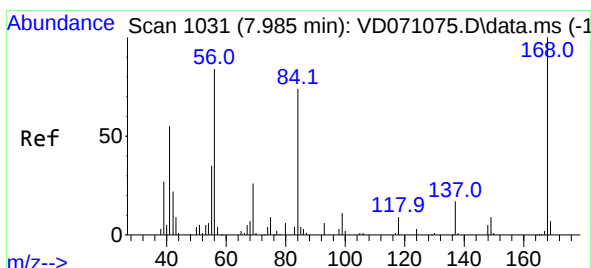
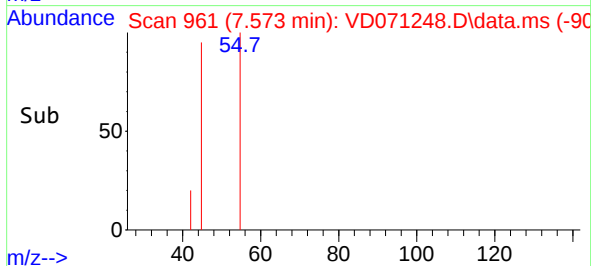
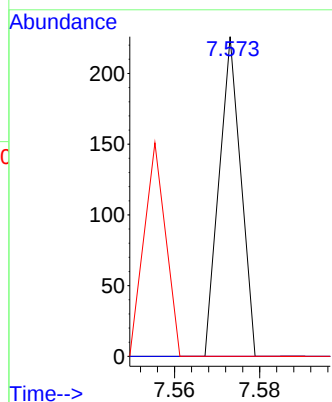
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	80
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	66.3	32.7	49.1#



#31

Cyclohexane

Concen: 2.044 ug/l

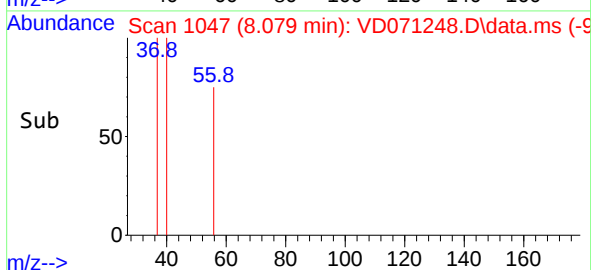
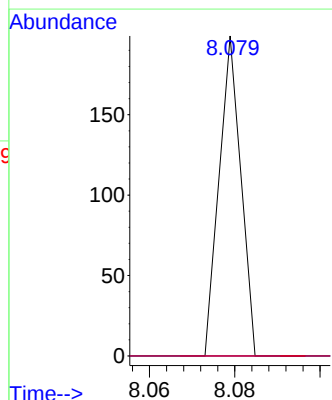
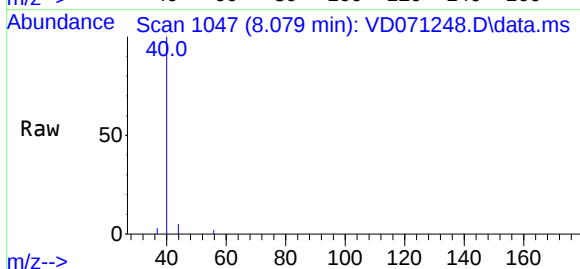
RT: 8.079 min Scan# 1047

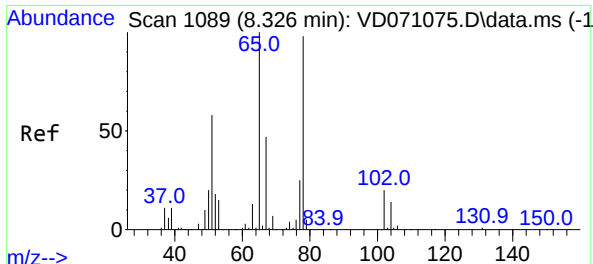
Delta R.T. 0.094 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Tgt Ion:	56	Resp:	70
Ion	Ratio	Lower	Upper
56	100		
69	0.0	25.9	38.9#
84	0.0	64.3	96.5#

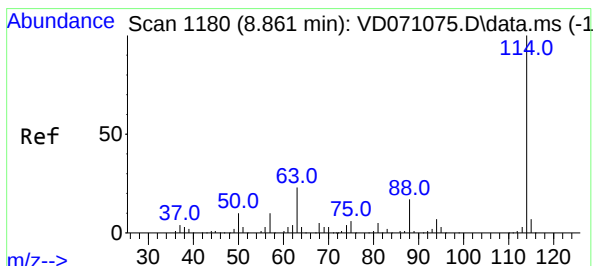
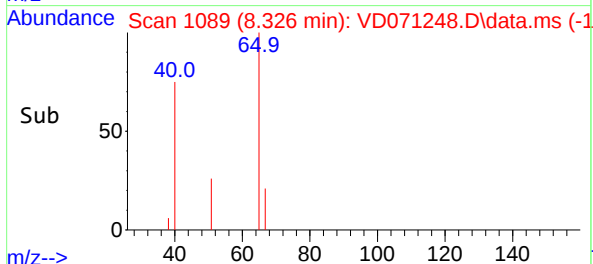
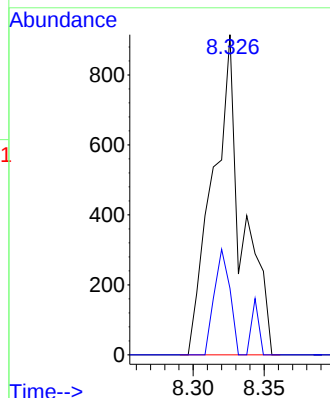
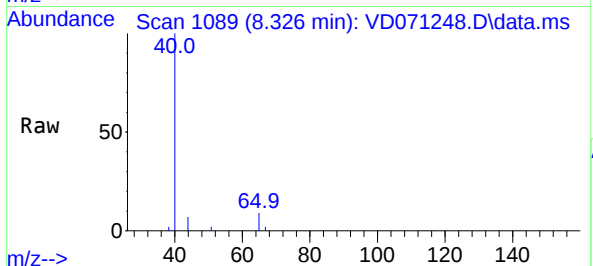




#33
1,2-Dichloroethane-d4
Concen: 65.557 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

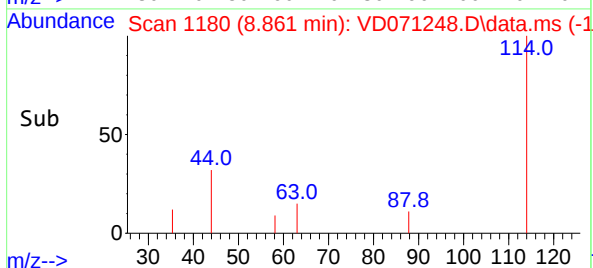
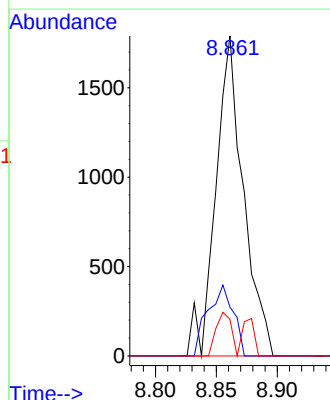
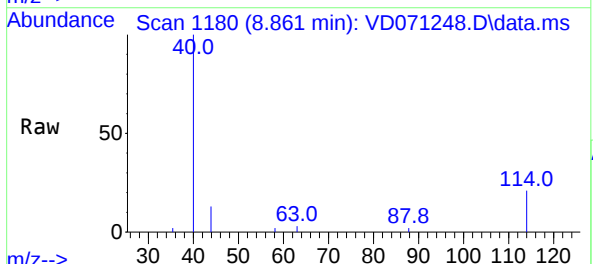
Instrument :
MSVOA_D
ClientSampleId :

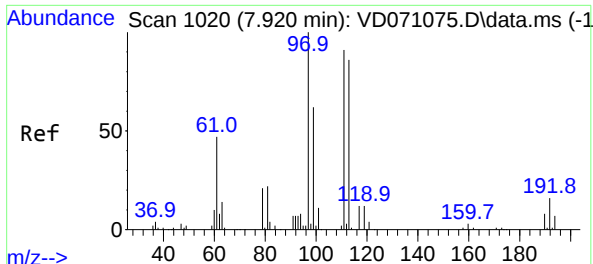
Tgt Ion: 65 Resp: 1320
Ion Ratio Lower Upper
65 100
67 17.4 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

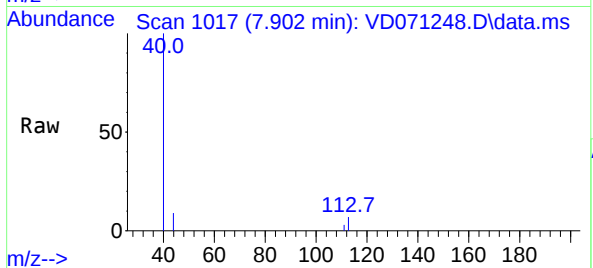
Tgt Ion: 114 Resp: 2826
Ion Ratio Lower Upper
114 100
63 15.3 0.0 41.8
88 11.5 0.0 32.8



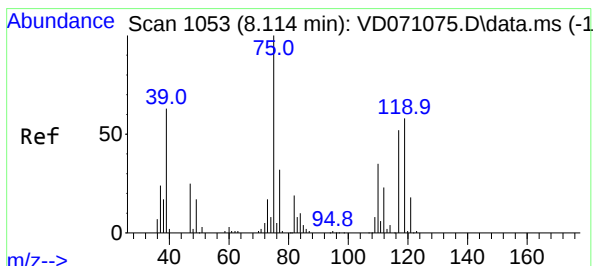
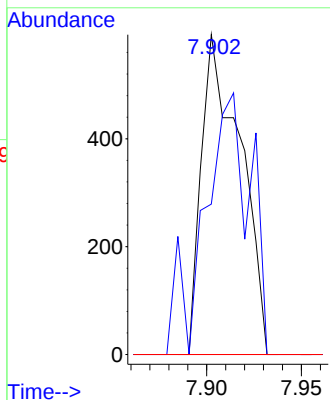
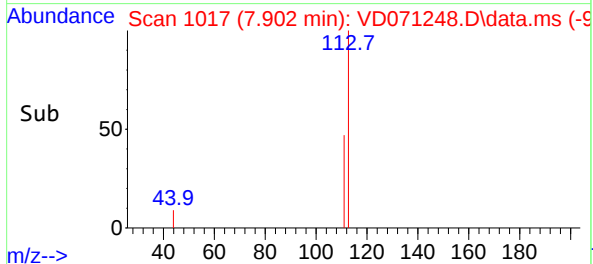


#35
Dibromofluoromethane
Concen: 47.067 ug/l
RT: 7.902 min Scan# 1017
Delta R.T. -0.018 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Instrument :
MSVOA_D
ClientSampleId :

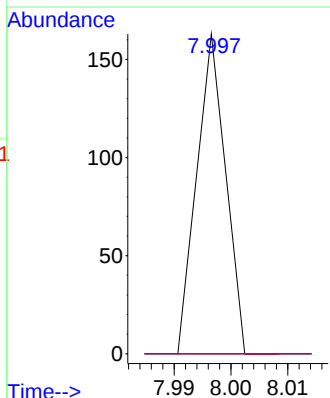
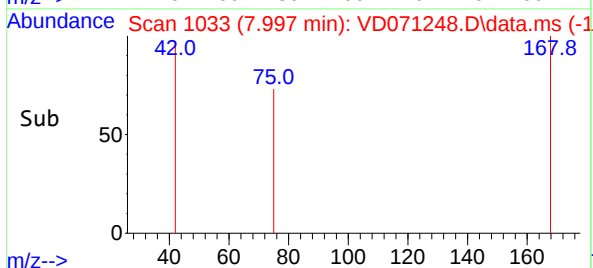
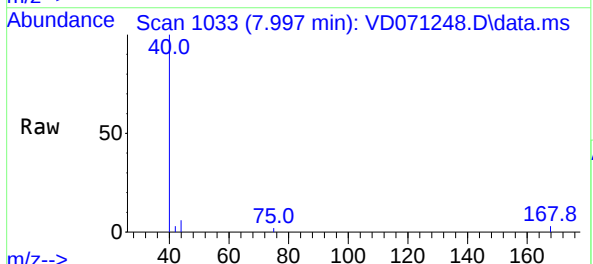


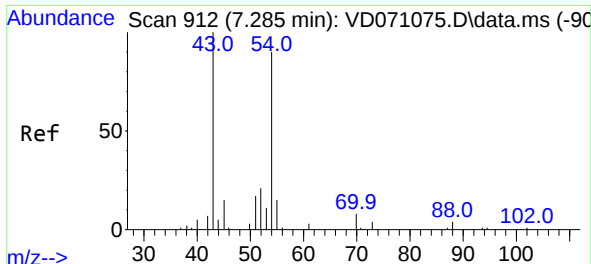
Tgt Ion:113 Resp: 847
Ion Ratio Lower Upper
113 100
111 96.7 82.0 123.0
192 0.0 15.2 22.8#



#36
1,1-Dichloropropene
Concen: 2.158 ug/l
RT: 7.997 min Scan# 1033
Delta R.T. -0.117 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 75 Resp: 57
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#

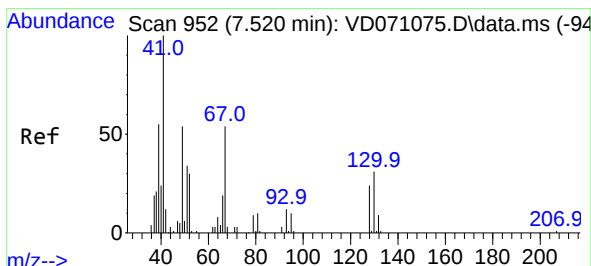
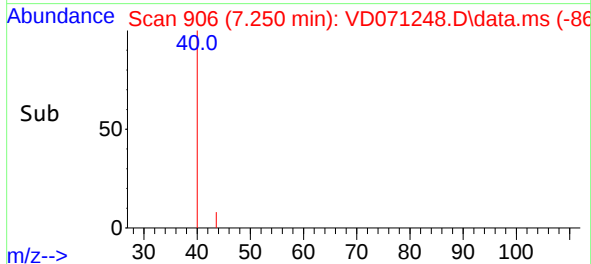
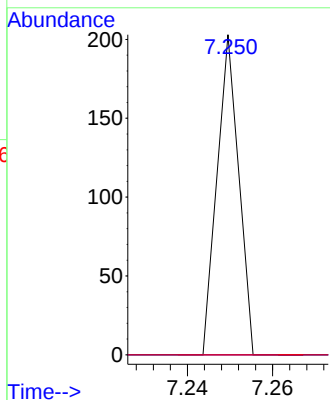
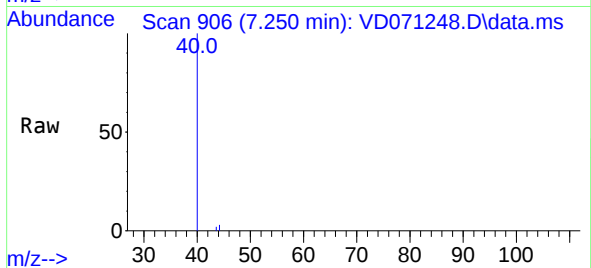




#37
Ethyl Acetate
Concen: 6.311 ug/l
RT: 7.250 min Scan# 906
Delta R.T. -0.035 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

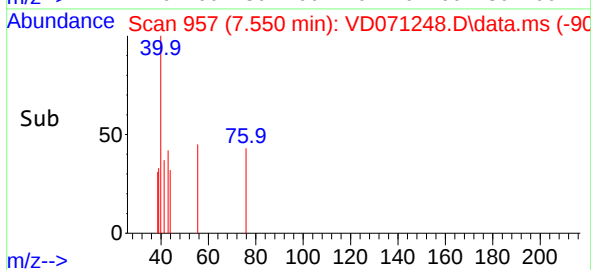
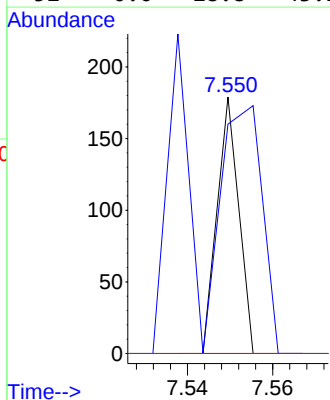
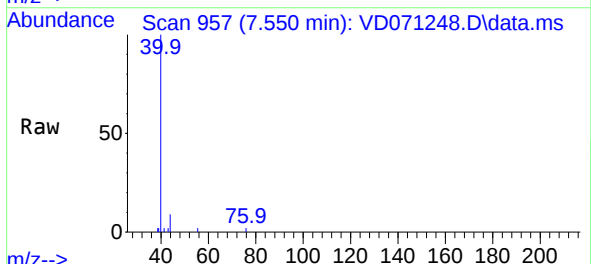
Instrument :
MSVOA_D
ClientSampleId :

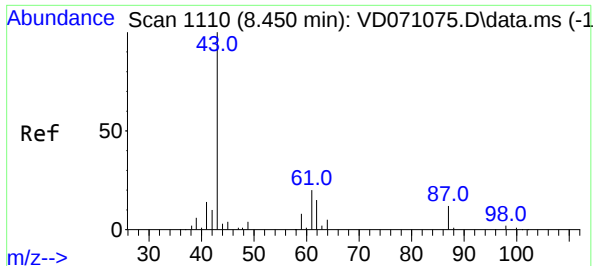
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#



#41
Methacrylonitrile
Concen: 9.091 ug/l
RT: 7.550 min Scan# 957
Delta R.T. 0.030 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 41 Resp: 63
Ion Ratio Lower Upper
41 100
39 185.7 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#





#43

Isopropyl Acetate

Concen: 7.149 ug/l

RT: 8.449 min Scan# 1110

Delta R.T. -0.001 min

Lab File: VD071248.D

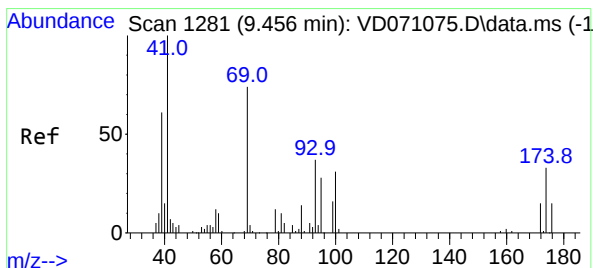
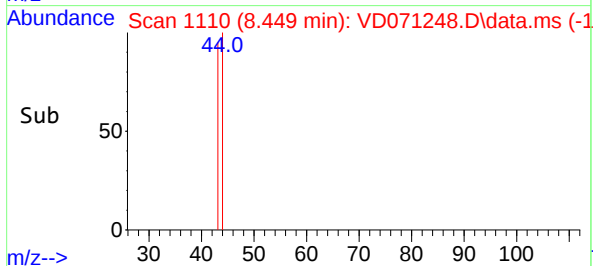
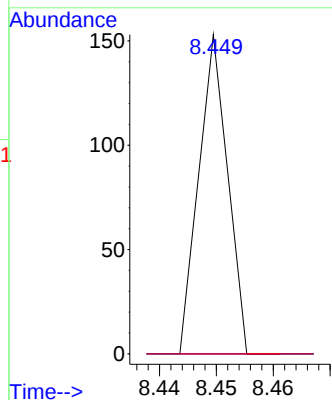
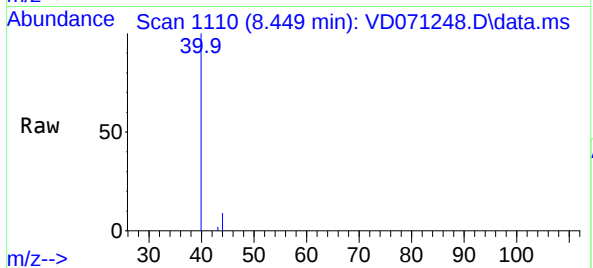
Acq: 10 Dec 2021 13:36

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43	Resp: 54
Ion Ratio	Lower Upper
43 100	
61 0.0	28.2 42.4#
87 0.0	10.7 16.1#



#48

Methyl methacrylate

Concen: 5.373 ug/l

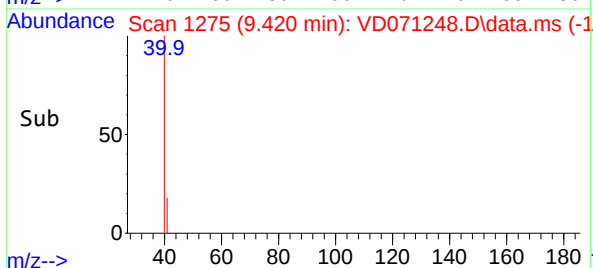
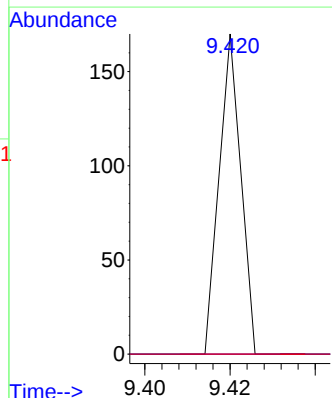
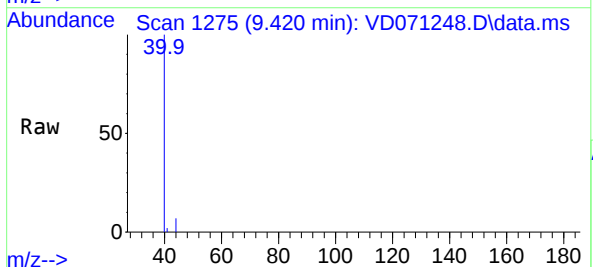
RT: 9.420 min Scan# 1275

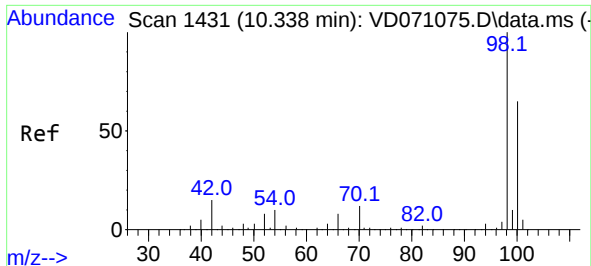
Delta R.T. -0.036 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Tgt Ion: 41	Resp: 60
Ion Ratio	Lower Upper
41 100	
69 0.0	69.8 104.6#
39 0.0	35.6 53.4#

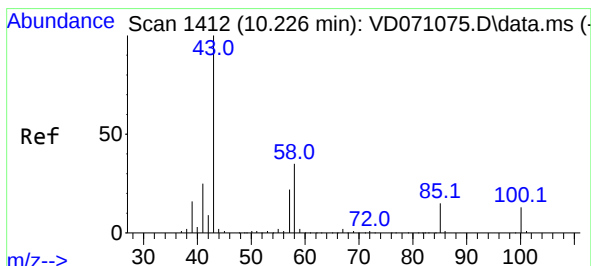
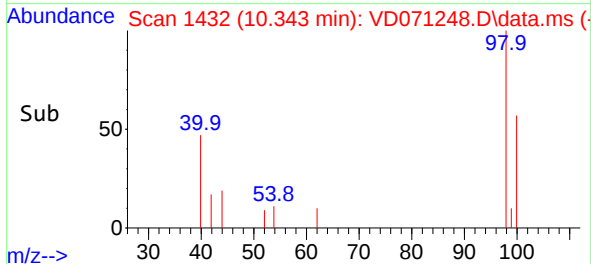
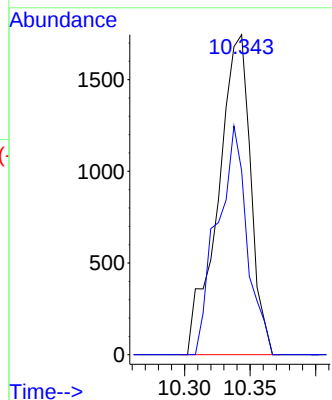
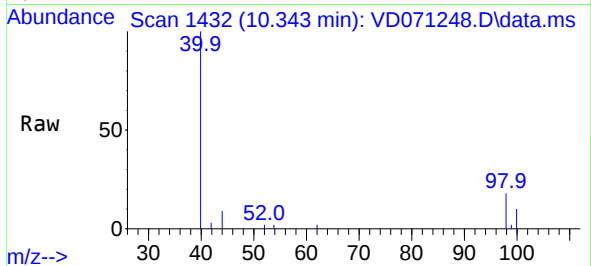




#50
Toluene-d8
Concen: 44.069 ug/l
RT: 10.343 min Scan# 14
Delta R.T. 0.005 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

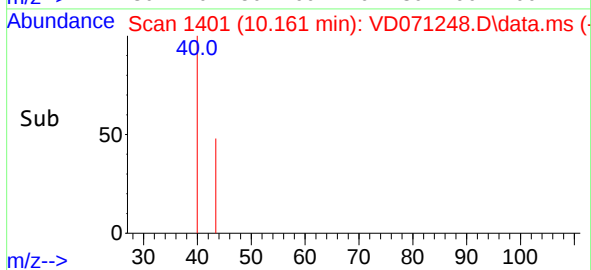
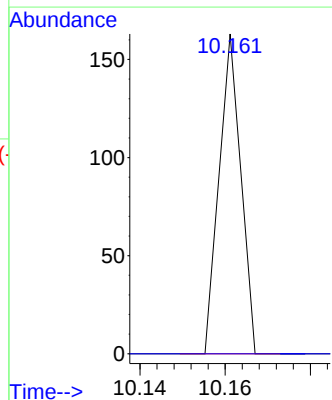
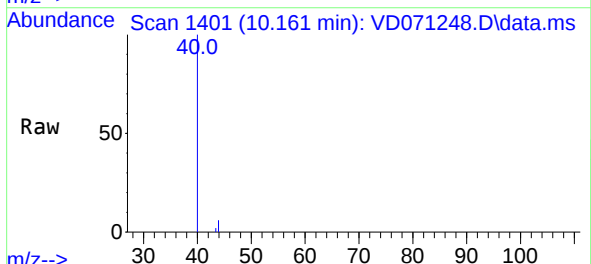
Instrument :
MSVOA_D
ClientSampleId :

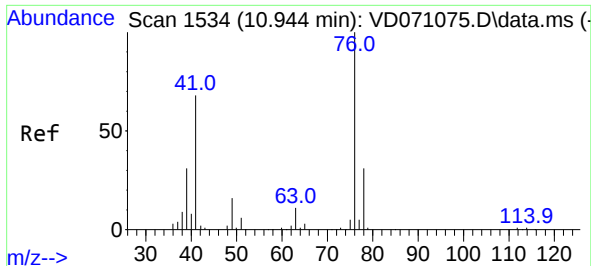
Tgt Ion: 98 Resp: 3018
Ion Ratio Lower Upper
98 100
100 65.8 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 34.607 ug/l
RT: 10.161 min Scan# 1401
Delta R.T. -0.065 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

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





#57

1,3-Dichloropropane

Concen: 3.325 ug/l

RT: 10.961 min Scan# 11

Delta R.T. 0.017 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Instrument :

MSVOA_D

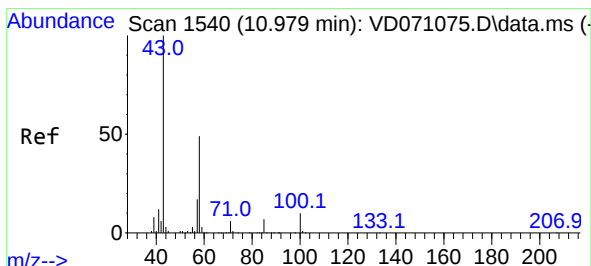
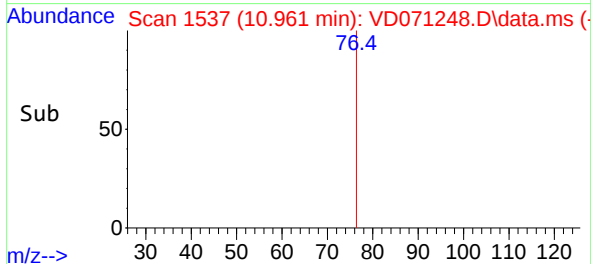
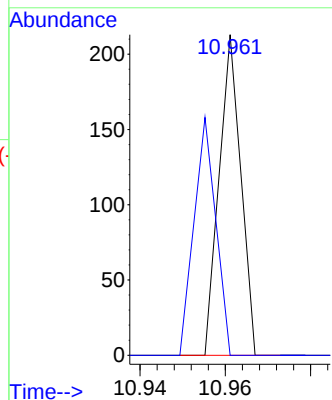
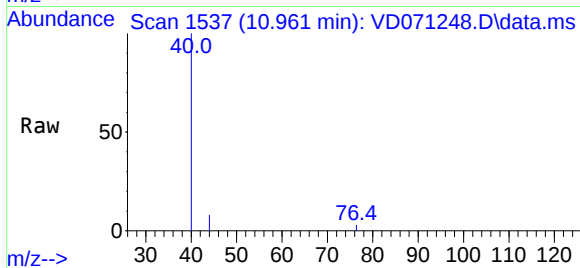
ClientSampleId :

Tgt Ion: 76 Resp: 75

Ion Ratio Lower Upper

76 100

78 74.7 25.8 38.6#



#59

2-Hexanone

Concen: 39.996 ug/l

RT: 11.161 min Scan# 1571

Delta R.T. 0.182 min

Lab File: VD071248.D

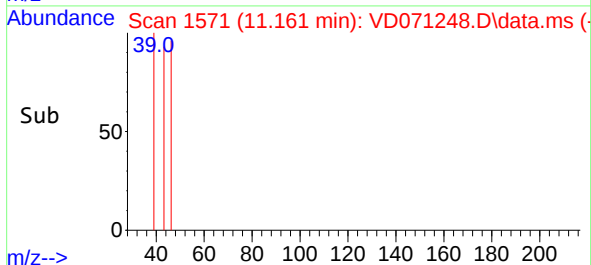
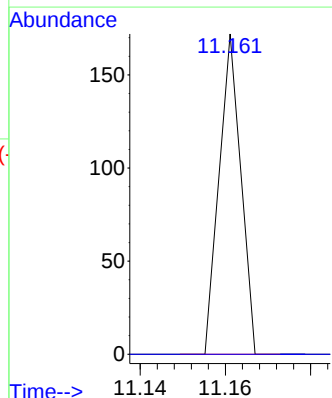
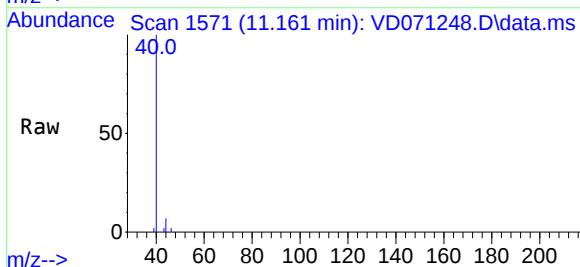
Acq: 10 Dec 2021 13:36

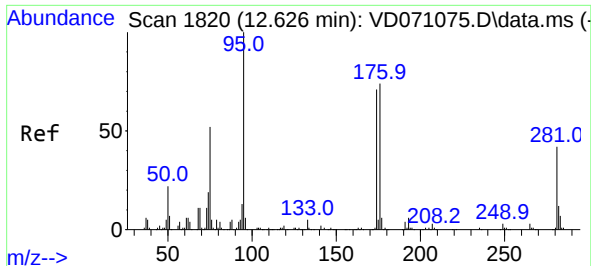
Tgt Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

58 0.0 28.7 86.1#

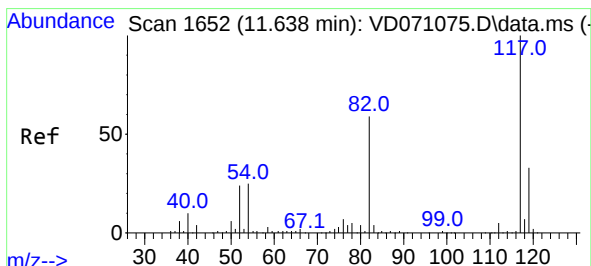
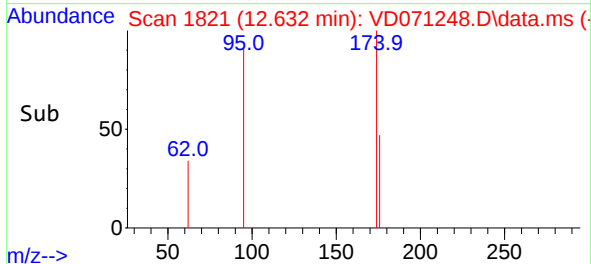
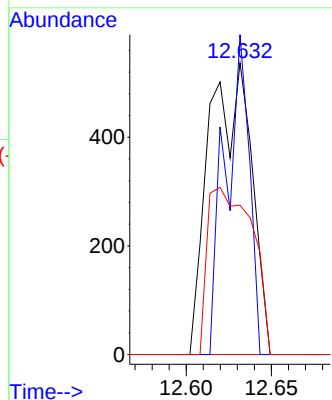
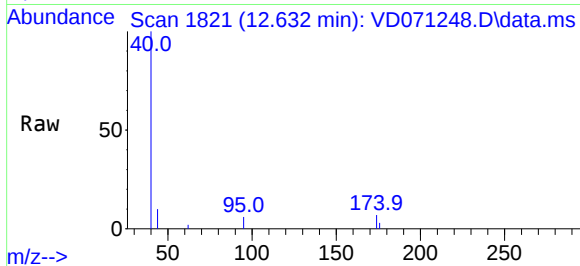




#62
4-Bromofluorobenzene
Concen: 39.219 ug/l
RT: 12.632 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

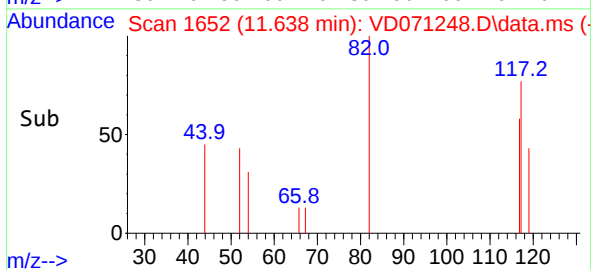
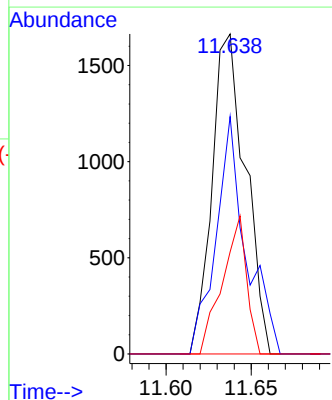
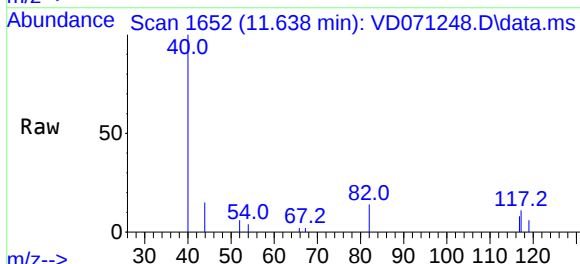
Instrument :
MSVOA_D
ClientSampleId :

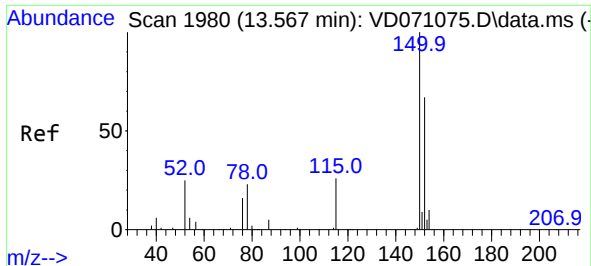
Tgt Ion: 95	Resp: 931
Ion Ratio	Lower Upper
95	100
174	61.4 0.0 159.4
176	60.4 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

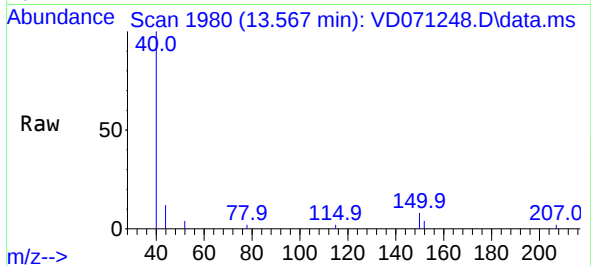
Tgt Ion: 117	Resp: 2277
Ion Ratio	Lower Upper
117	100
82	74.2 44.7 67.1#
119	31.9 26.2 39.4



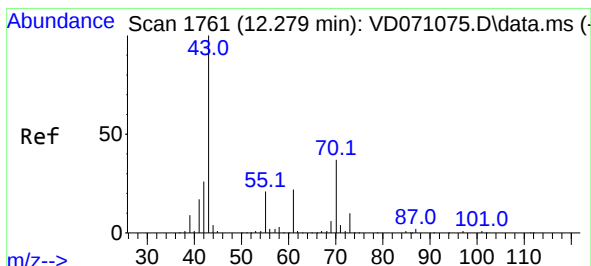
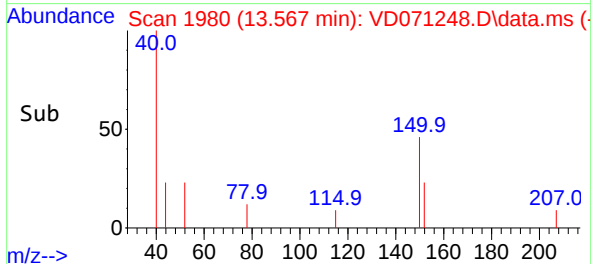
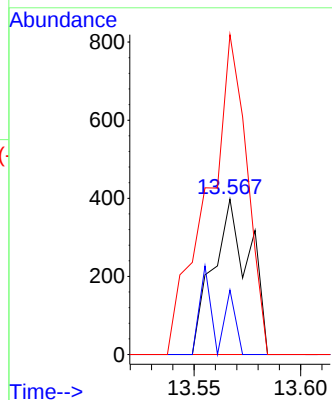


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Instrument :
MSVOA_D
ClientSampleId :

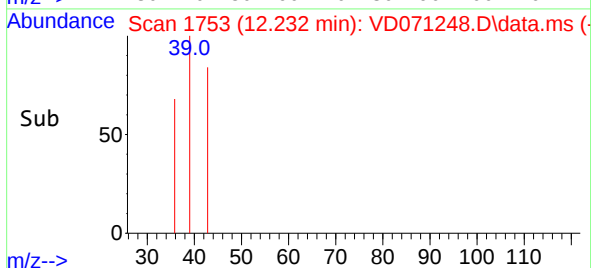
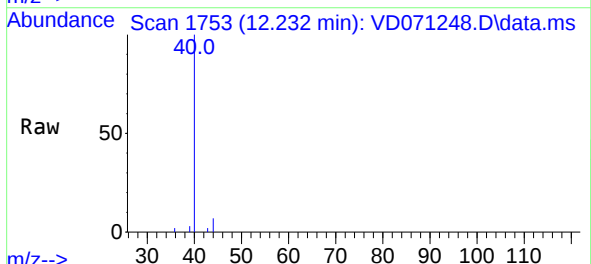
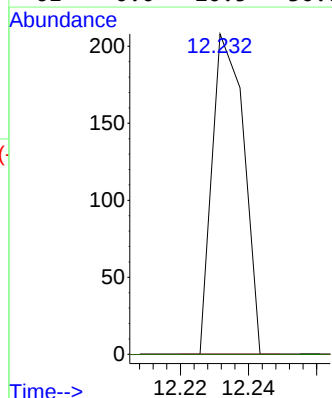


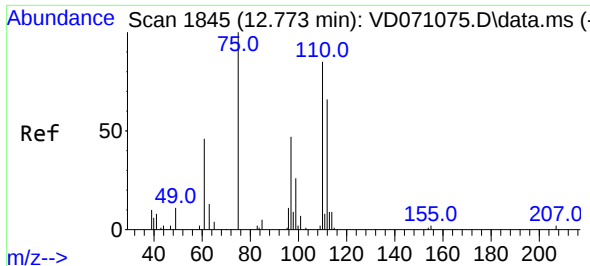
Tgt Ion:152 Resp: 474
Ion Ratio Lower Upper
152 100
115 29.1 29.8 89.3#
150 222.4 0.0 349.2



#74
N-ethyl acetate
Concen: 18.335 ug/l
RT: 12.232 min Scan# 1753
Delta R.T. -0.047 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 43 Resp: 134
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

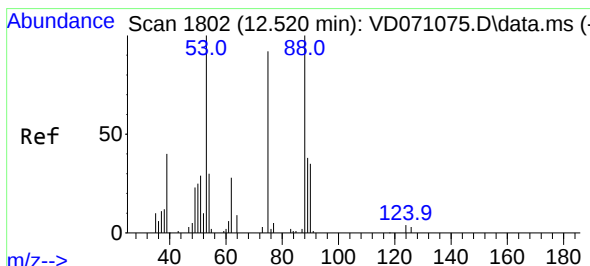
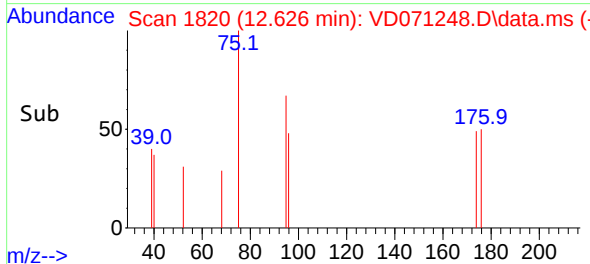
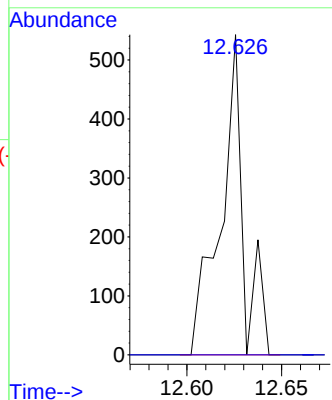
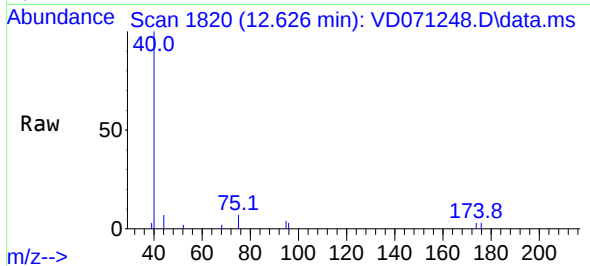




#76
1,2,3-Trichloropropane
Concen: 101.194 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

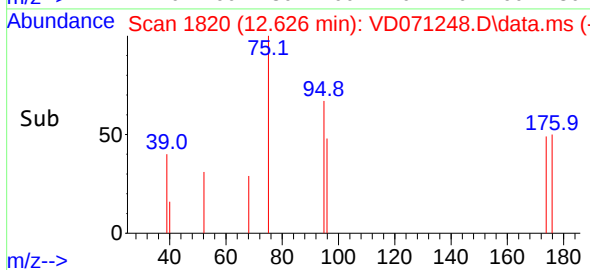
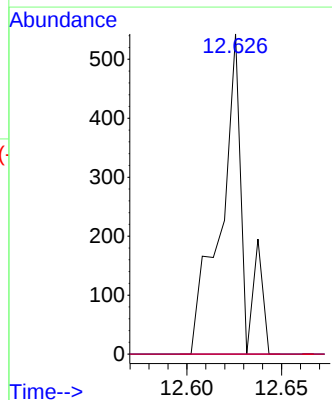
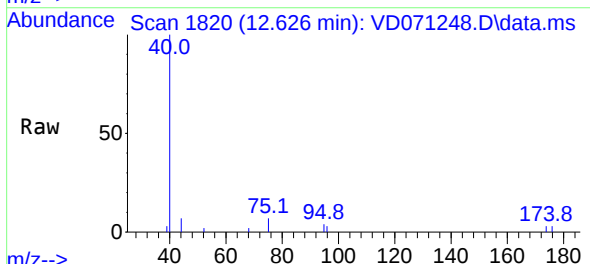
Instrument :
MSVOA_D
ClientSampleId :

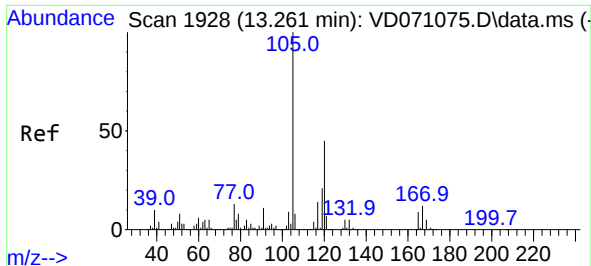
Tgt Ion: 75 Resp: 457
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 215.129 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 75 Resp: 457
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

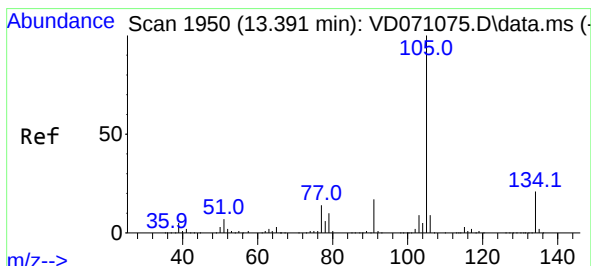
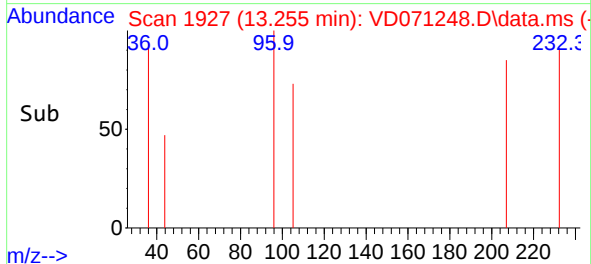
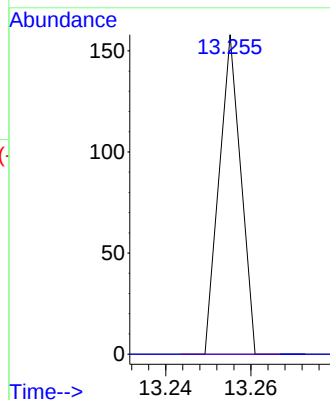
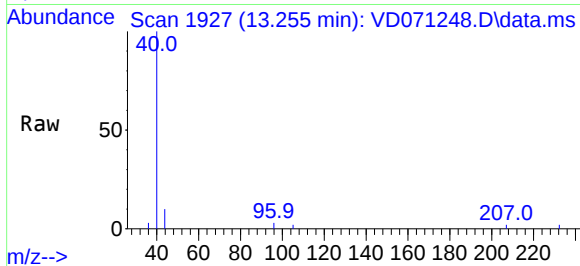




#84
1,2,4-Trimethylbenzene
Concen: 2.027 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

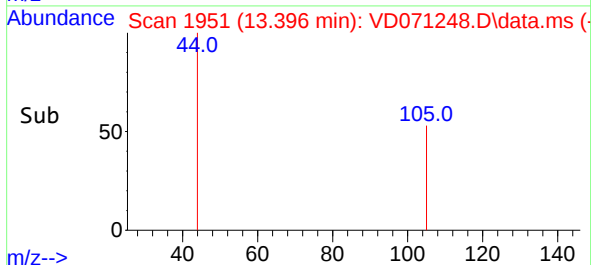
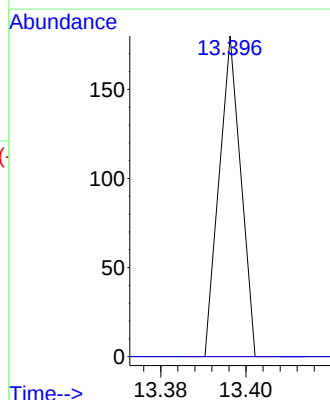
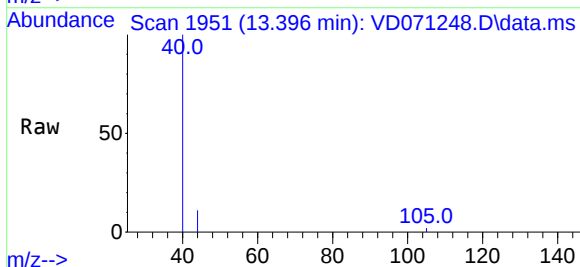
Instrument :
MSVOA_D
ClientSampleId :

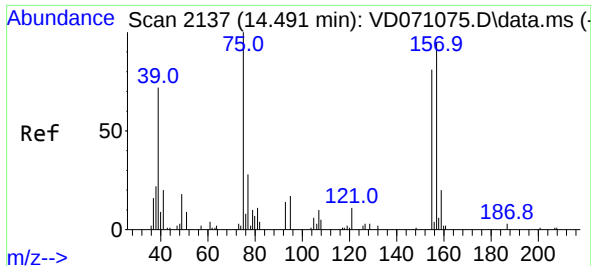
Tgt Ion:105 Resp: 56
Ion Ratio Lower Upper
105 100
120 0.0 22.9 68.7#



#85
sec-Butylbenzene
Concen: 1.697 ug/l
RT: 13.396 min Scan# 1951
Delta R.T. 0.005 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion:105 Resp: 63
Ion Ratio Lower Upper
105 100
134 0.0 9.7 28.9#

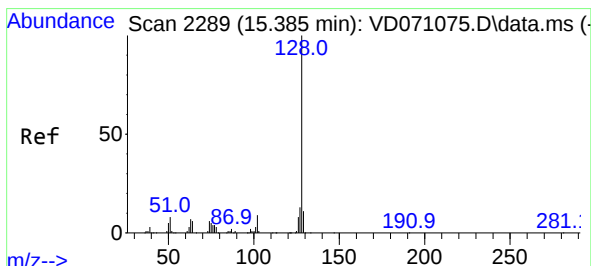
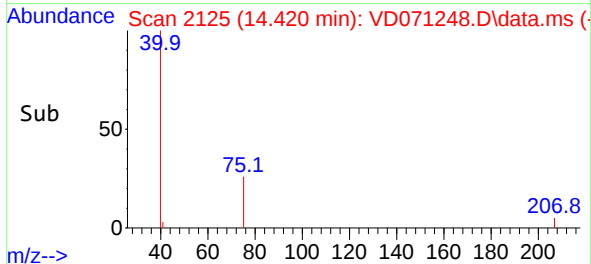
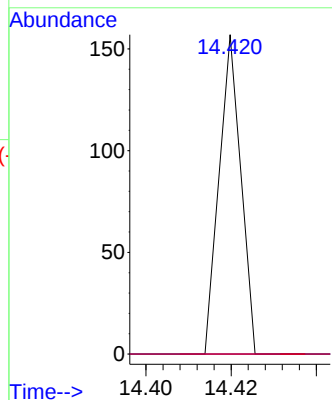
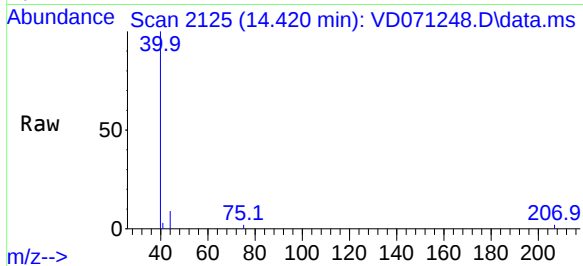




#92
1,2-Dibromo-3-Chloropropane
Concen: 59.754 ug/l
RT: 14.420 min Scan# 2137
Delta R.T. -0.071 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Instrument :
MSVOA_D
ClientSampleId :

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: 3.902 ug/l
RT: 15.184 min Scan# 2255
Delta R.T. -0.201 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion:128 Resp: 54
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.7 13.1#

