

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121121\
 Data File : VD071284.D
 Acq On : 11 Dec 2021 21:59
 Operator : VA/SY
 Sample : M5017-59
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 12 18:54:01 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)

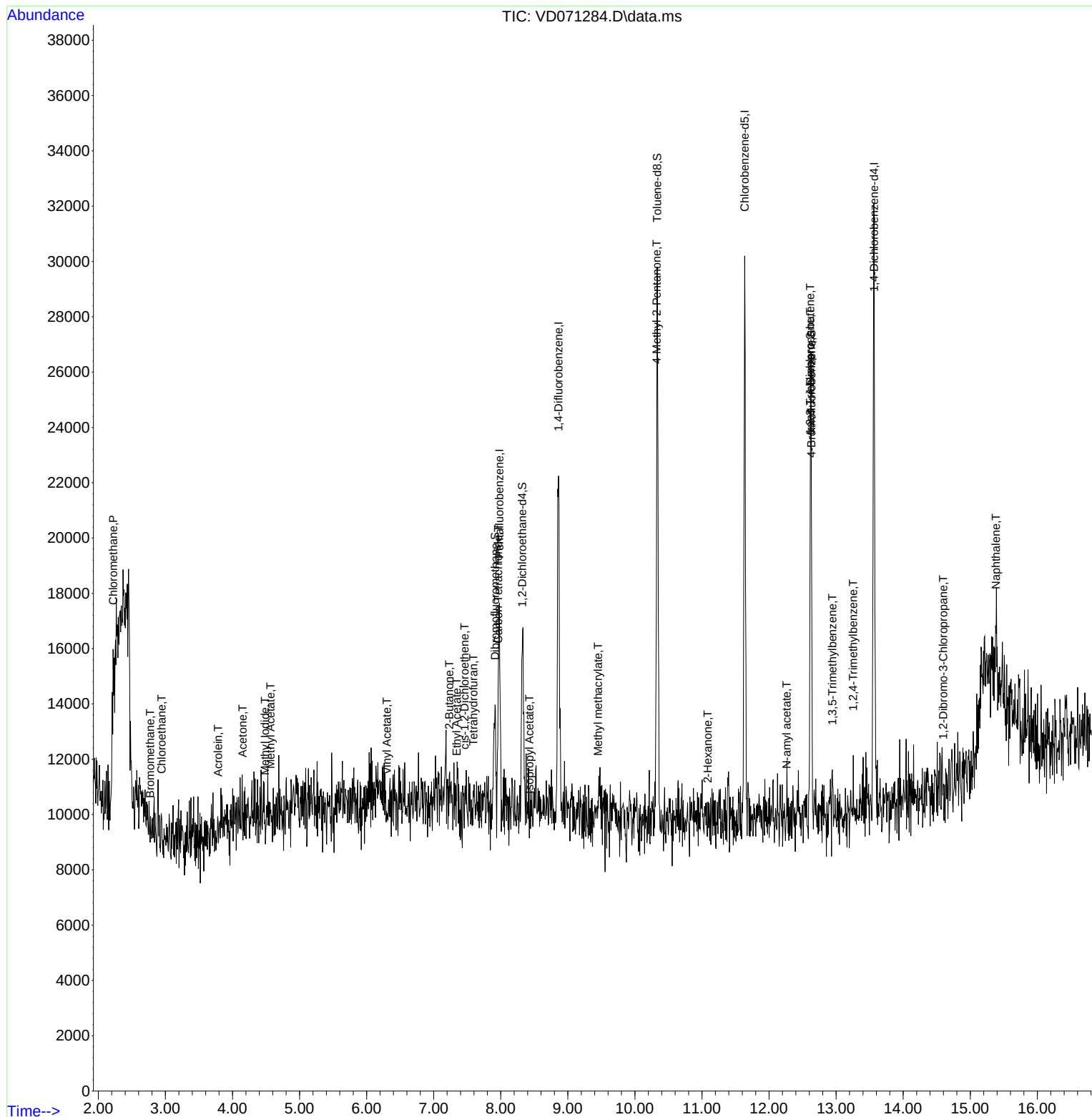
Internal Standards						
1) Pentafluorobenzene	7.979	168	5392	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.861	114	9521	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	10309	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	5811	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	4607	72.816	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 145.640%	
35) Dibromofluoromethane	7.914	113	2911	48.014	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.020%	
50) Toluene-d8	10.332	98	12144	52.634	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 105.260%	
62) 4-Bromofluorobenzene	12.632	95	5370	67.144	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 134.280%	
Target Compounds						
						Qvalue
3) Chloromethane	2.220	50	407	6.691	ug/l	# 42
5) Bromomethane	2.773	94	57	1.165	ug/l	# 3
6) Chloroethane	2.944	64	73	1.564	ug/l	# 39
10) Methyl Iodide	4.485	142	57	5.382	ug/l	# 40
11) Tert butyl alcohol	5.244	59	56	Below Cal	#	71
13) Acrolein	3.785	56	72	16.653	ug/l	# 13
16) Acetone	4.150	43	131	37.633	ug/l	# 40
18) Methyl Acetate	4.567	43	54	1.157	ug/l	# 51
20) Methylene Chloride	4.956	84	61	Below Cal	#	1
23) Vinyl Acetate	6.303	43	122	28.274	ug/l	# 72
25) 2-Butanone	7.232	43	54	30.826	ug/l	# 45
27) cis-1,2-Dichloroethene	7.461	96	150	2.353	ug/l	# 1
29) Tetrahydrofuran	7.591	42	71	7.067	ug/l	# 34
37) Ethyl Acetate	7.344	43	80	2.081	ug/l	# 66
38) Carbon Tetrachloride	7.961	117	383	4.366	ug/l	# 12
41) Methacrylonitrile	7.538	41	58	Below Cal	#	12
43) Isopropyl Acetate	8.426	43	147	6.779	ug/l	# 47
48) Methyl methacrylate	9.450	41	72	1.914	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.326	43	64	31.947	ug/l	# 34
59) 2-Hexanone	11.085	43	65	36.289	ug/l	# 22
74) N-amyl acetate	12.261	43	209	7.308	ug/l	# 40
76) 1,2,3-Trichloropropane	12.614	75	2959	53.446	ug/l	# 1
80) 1,3,5-Trimethylbenzene	12.943	105	497	1.432	ug/l	# 57
81) trans-1,4-Dichloro-2-b...	12.614	75	2959	116.344	ug/l	# 18
84) 1,2,4-Trimethylbenzene	13.255	105	408	1.204	ug/l	# 78
92) 1,2-Dibromo-3-Chloropr...	14.596	75	59	5.229	ug/l	# 4
95) Naphthalene	15.384	128	1824	10.752	ug/l	# 89

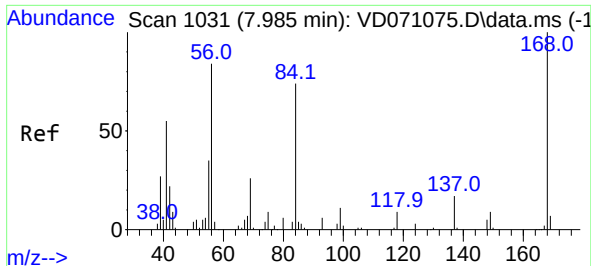
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

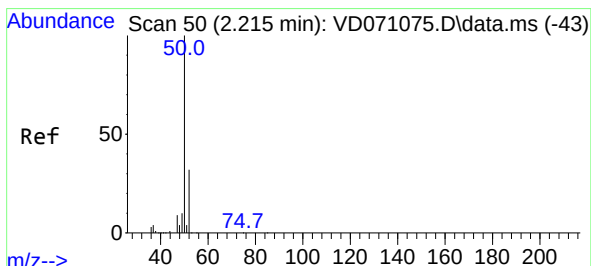
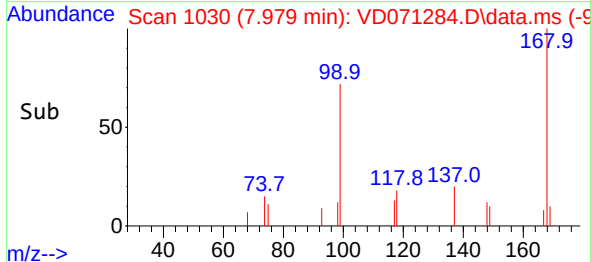
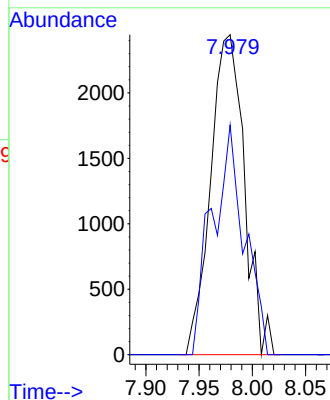
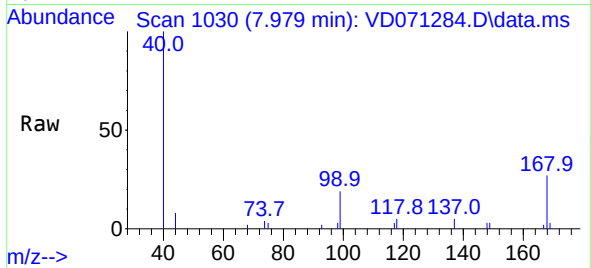




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

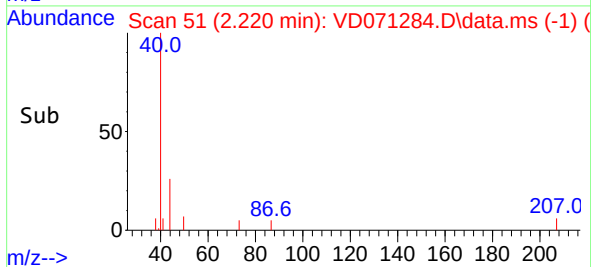
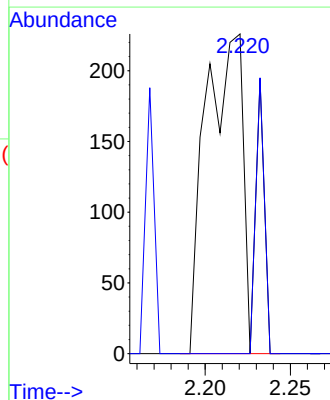
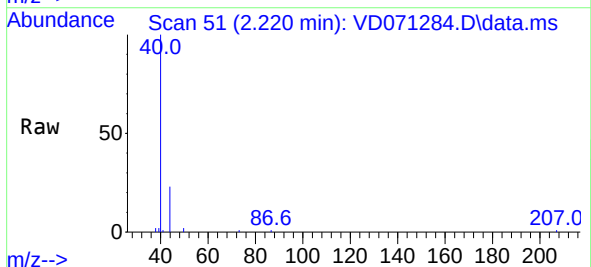
Instrument :
MSVOA_D
ClientSampleId :

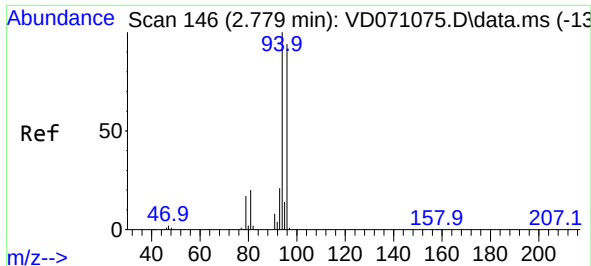
Tgt Ion:168 Resp: 5392
Ion Ratio Lower Upper
168 100
99 71.7 46.6 69.8#



#3
Chloromethane
Concen: 6.691 ug/l
RT: 2.220 min Scan# 51
Delta R.T. 0.005 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

Tgt Ion: 50 Resp: 407
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

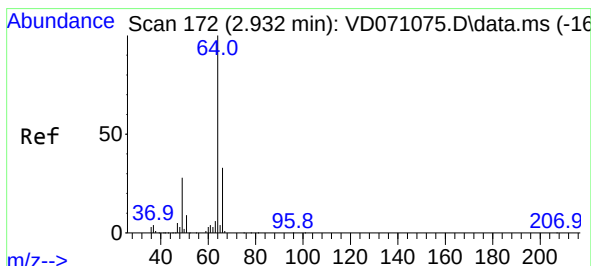
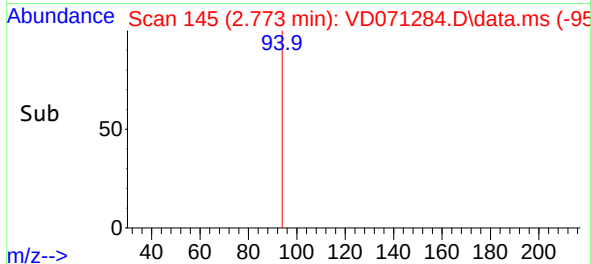
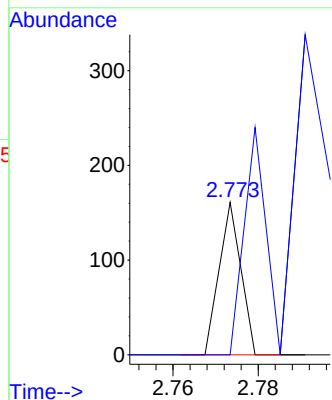
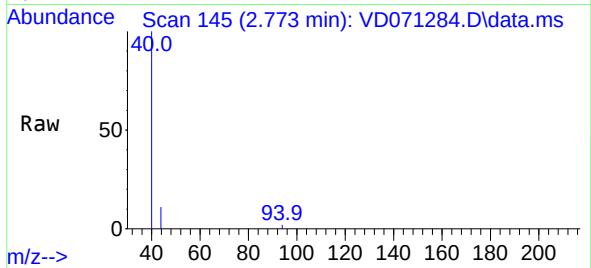




#5
Bromomethane
Concen: 1.165 ug/l
RT: 2.773 min Scan# 14
Delta R.T. -0.006 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

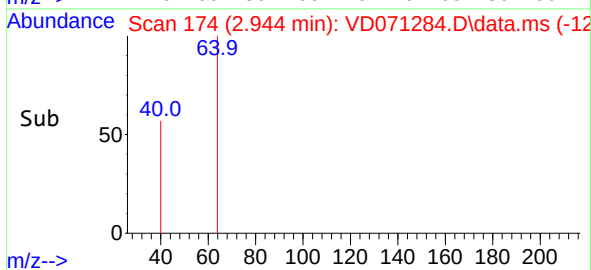
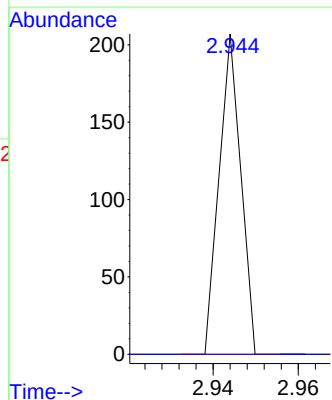
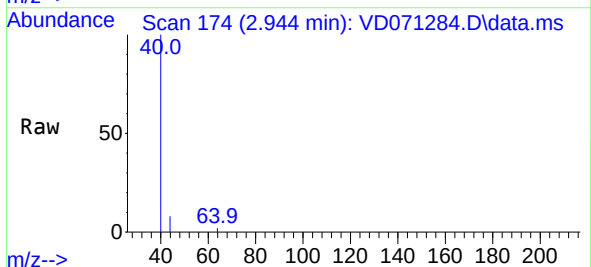
Instrument :
MSVOA_D
ClientSampleId :

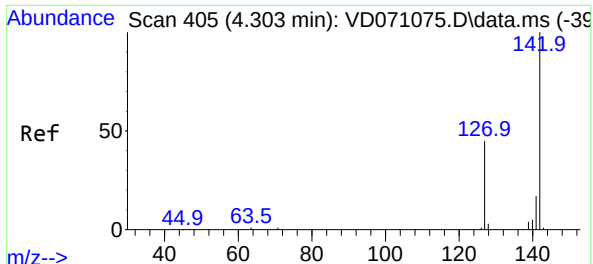
Tgt Ion: 94 Resp: 57
Ion Ratio Lower Upper
94 100
96 0.0 74.8 112.2#



#6
Chloroethane
Concen: 1.564 ug/l
RT: 2.944 min Scan# 174
Delta R.T. 0.012 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

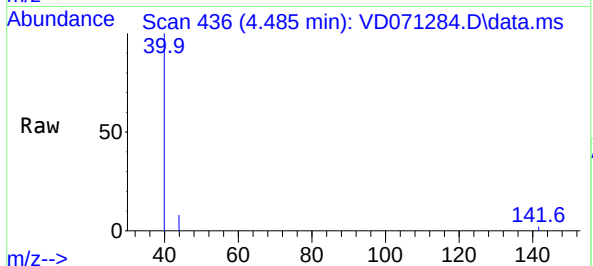
Tgt Ion: 64 Resp: 73
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



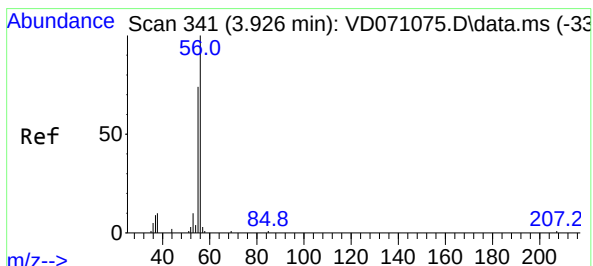
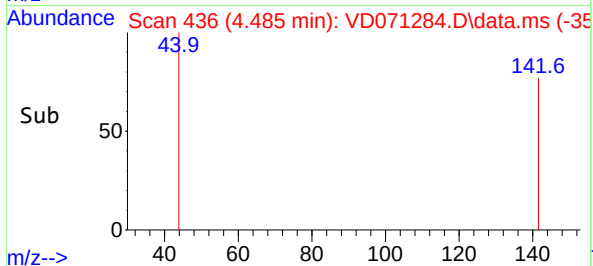
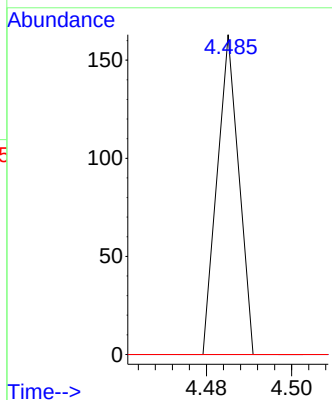


#10
Methyl Iodide
Concen: 5.382 ug/l
RT: 4.485 min Scan# 41
Delta R.T. 0.182 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

Instrument :
MSVOA_D
ClientSampleId :

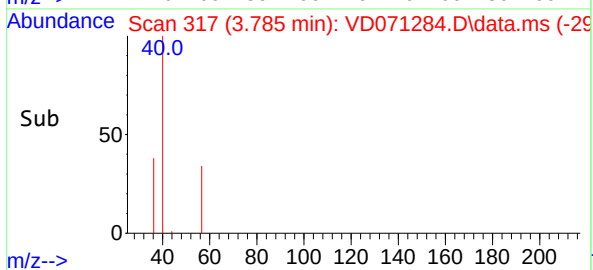
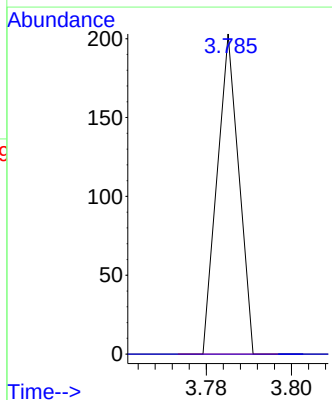
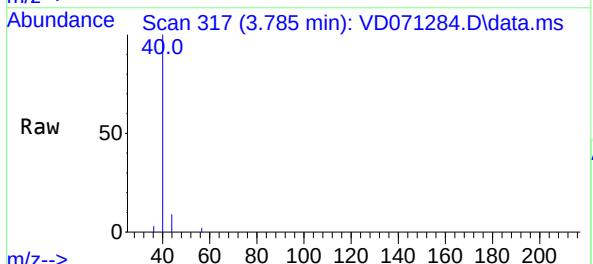


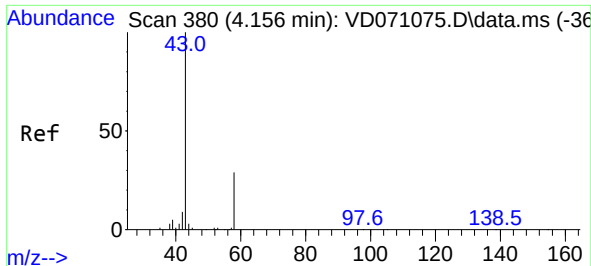
Tgt Ion:142 Resp: 57
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 16.653 ug/l
RT: 3.785 min Scan# 317
Delta R.T. -0.141 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

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

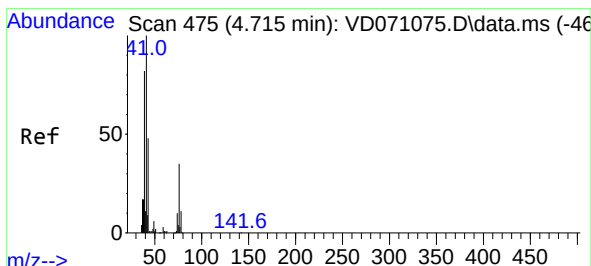
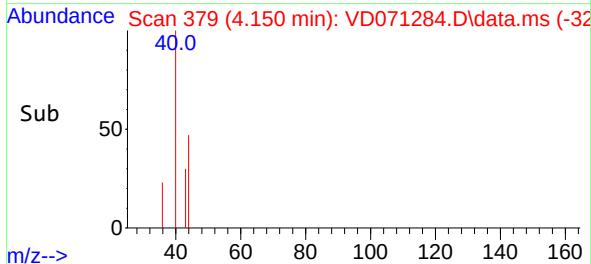
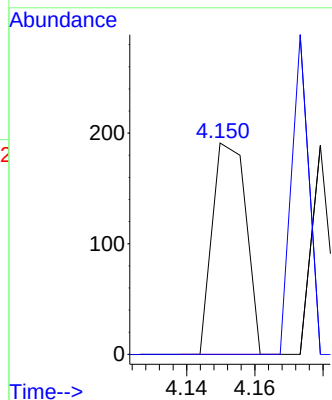
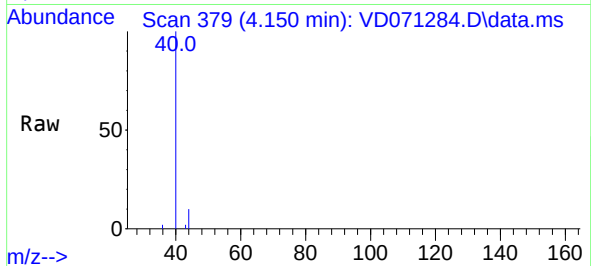




#16
Acetone
Concen: 37.633 ug/l
RT: 4.150 min Scan# 31
Delta R.T. -0.006 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

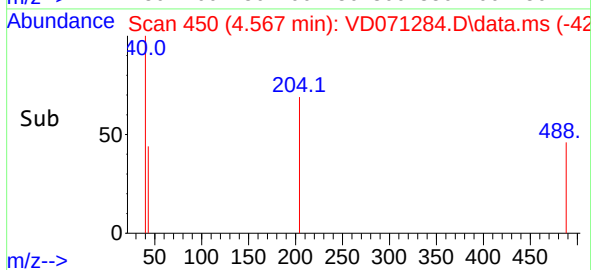
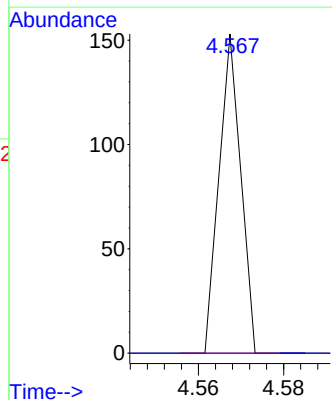
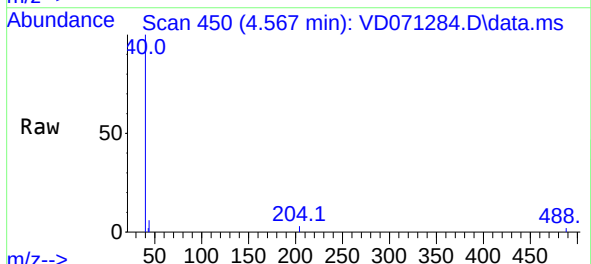
Instrument :
MSVOA_D
ClientSampleId :

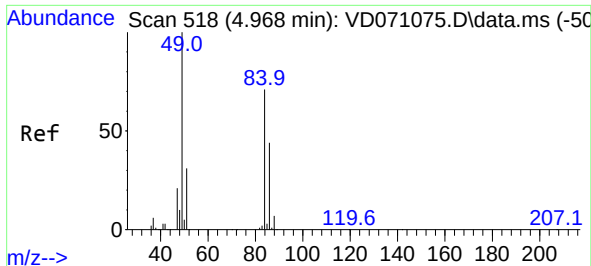
Tgt Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#18
Methyl Acetate
Concen: 1.157 ug/l
RT: 4.567 min Scan# 450
Delta R.T. -0.148 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

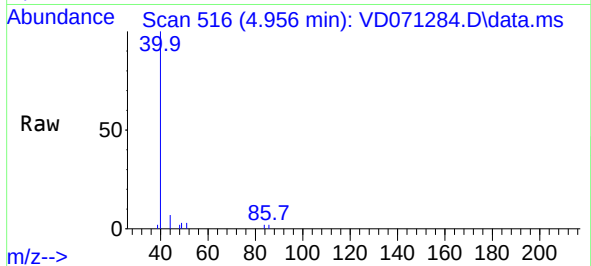
Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



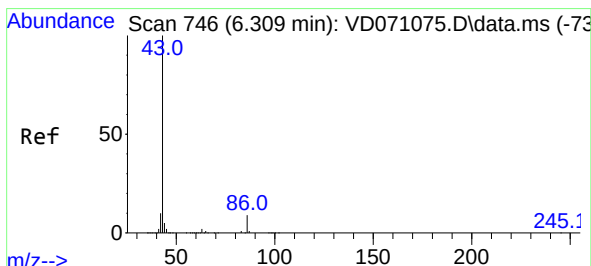
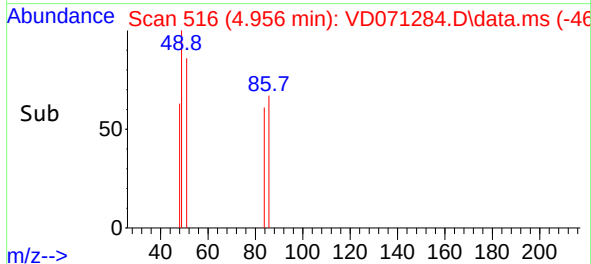
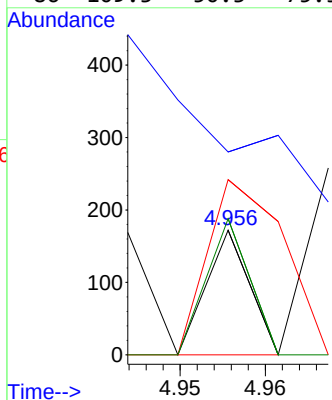


#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 51
Delta R.T. -0.012 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

Instrument :
MSVOA_D
ClientSampleId :

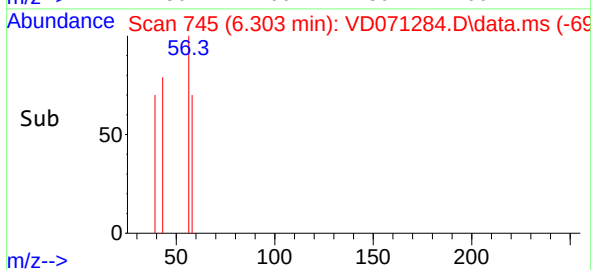
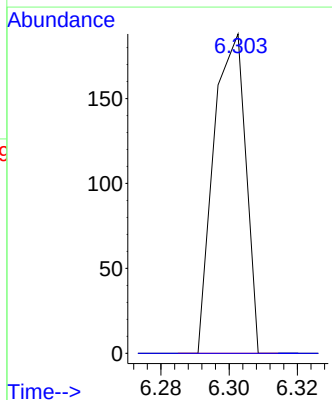
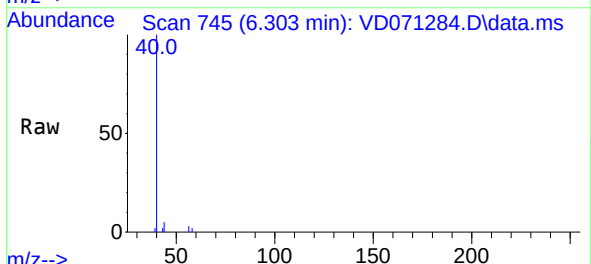


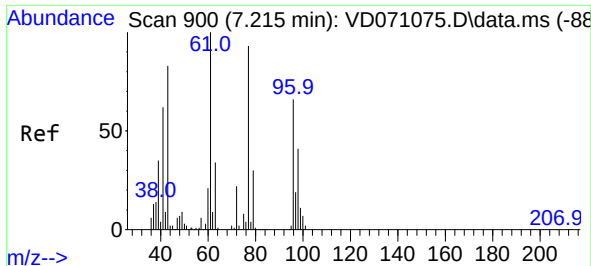
Tgt Ion: 84 Resp: 61
Ion Ratio Lower Upper
84 100
49 0.0 95.8 143.6#
51 140.7 30.9 46.3#
86 109.3 50.3 75.5#



#23
Vinyl Acetate
Concen: 28.274 ug/l
RT: 6.303 min Scan# 745
Delta R.T. -0.006 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

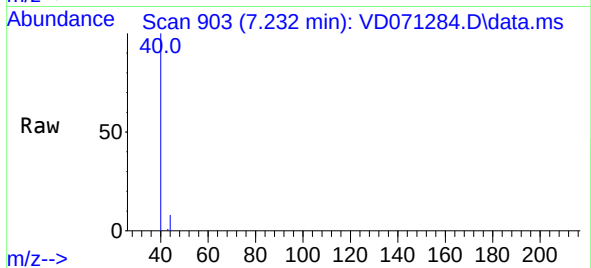
Tgt Ion: 43 Resp: 122
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



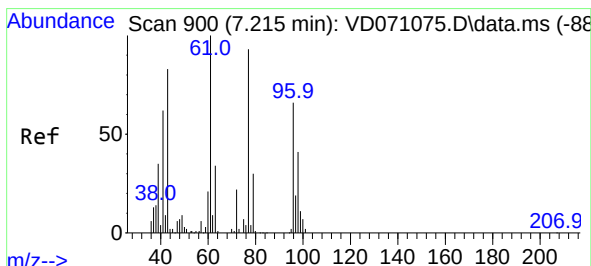
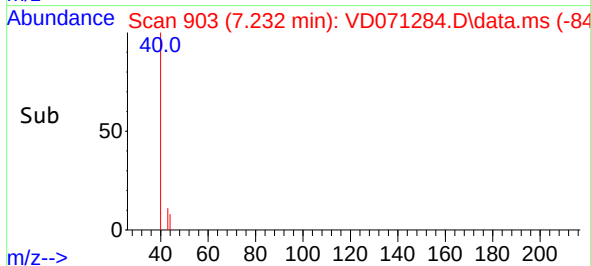
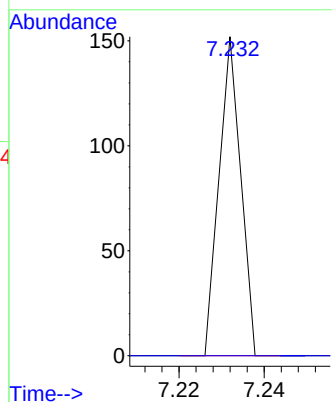


#25
2-Butanone
Concen: 30.826 ug/l
RT: 7.232 min Scan# 901
Delta R.T. 0.017 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

Instrument :
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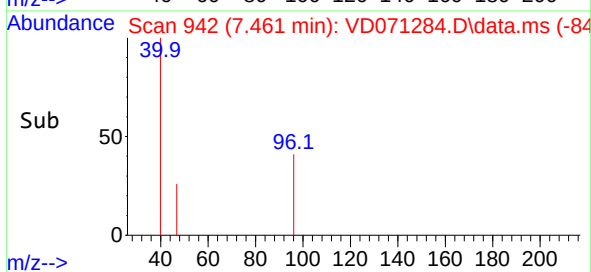
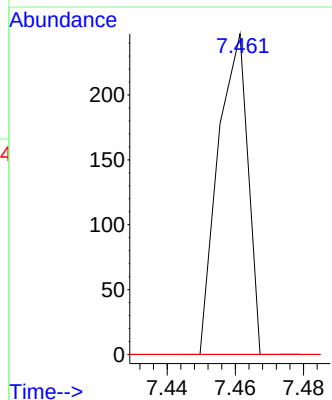
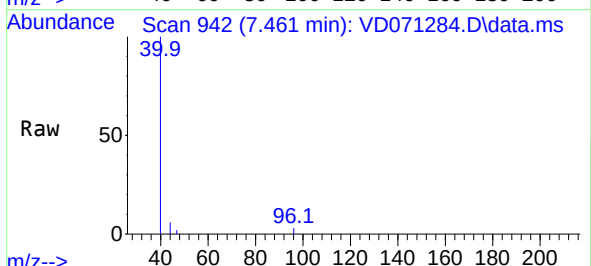


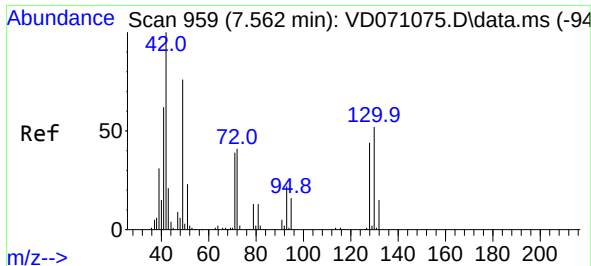
Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#27
cis-1,2-Dichloroethene
Concen: 2.353 ug/l
RT: 7.461 min Scan# 942
Delta R.T. 0.246 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

Tgt Ion: 96 Resp: 150
Ion Ratio Lower Upper
96 100
61 0.0 0.0 288.6
98 0.0 0.0 129.2





#29

Tetrahydrofuran

Concen: 7.067 ug/l

RT: 7.591 min Scan# 9

Delta R.T. 0.029 min

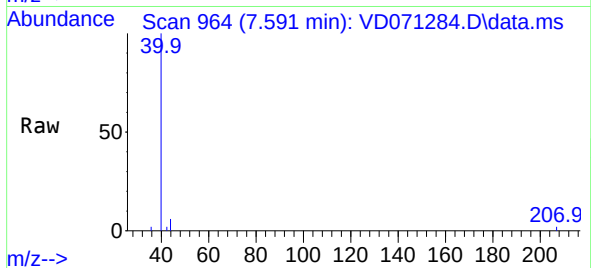
Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

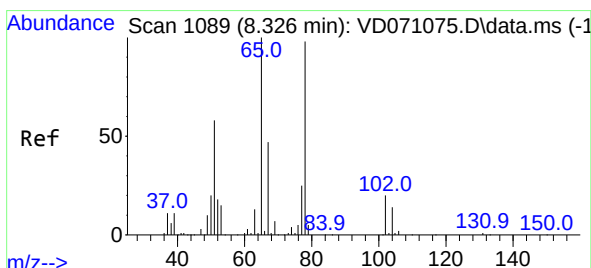
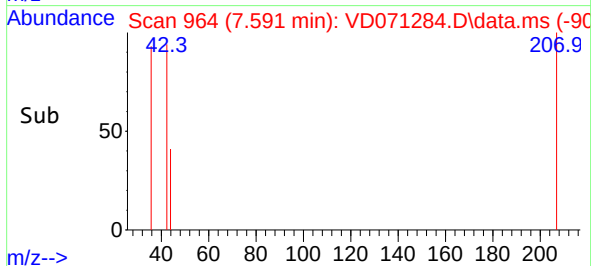
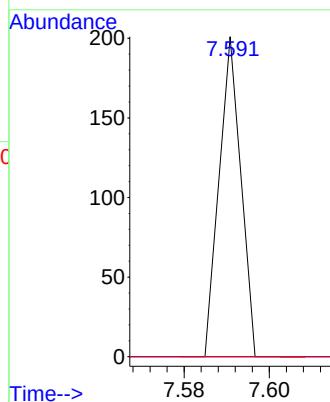
Instrument :

MSVOA_D

ClientSampleId :



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



#33

1,2-Dichloroethane-d4

Concen: 72.816 ug/l

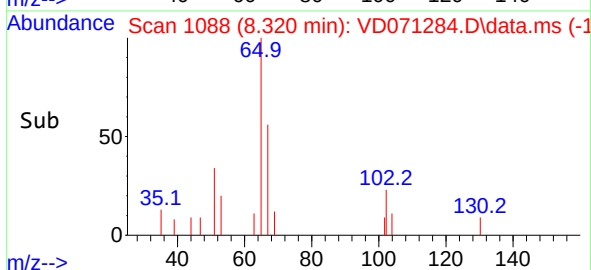
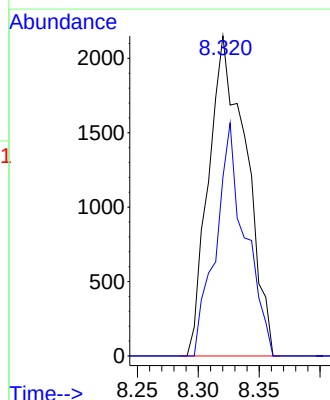
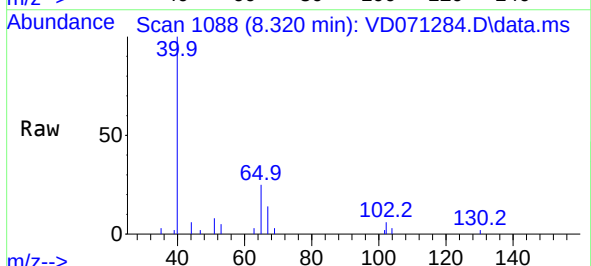
RT: 8.320 min Scan# 1088

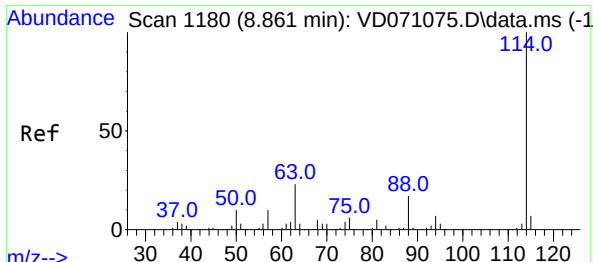
Delta R.T. -0.006 min

Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

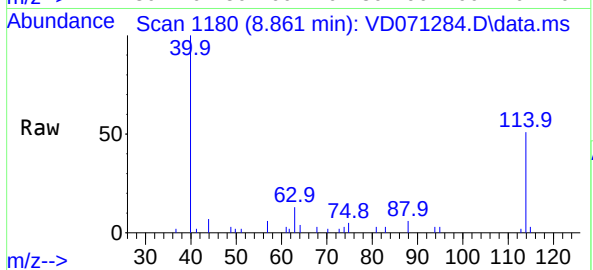
Tgt Ion:	65	Resp:	4607
Ion	Ratio	Lower	Upper
65	100		
67	57.0	0.0	112.2



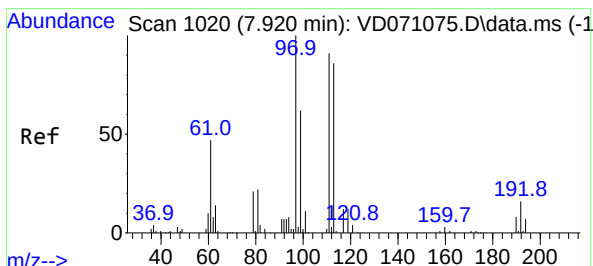
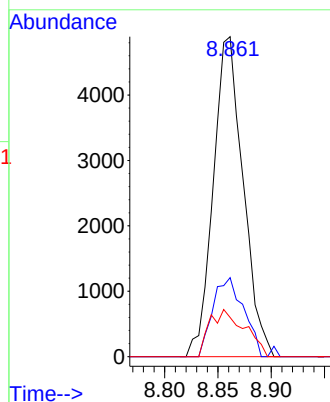
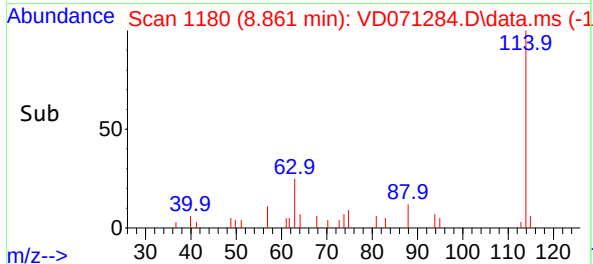


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

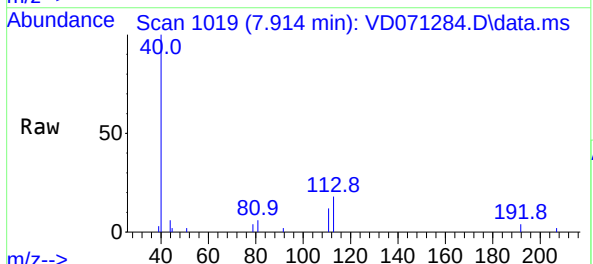
Instrument :
MSVOA_D
ClientSampleId :



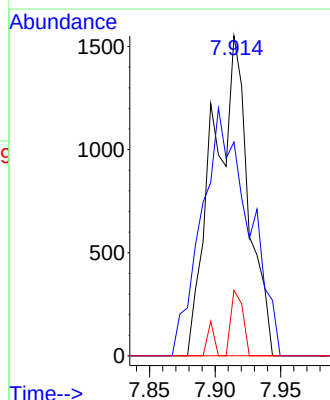
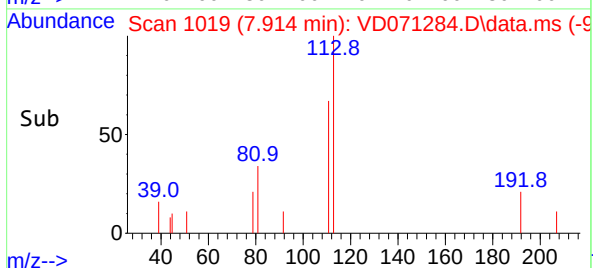
Tgt Ion:114 Resp: 9521
Ion Ratio Lower Upper
114 100
63 24.7 0.0 41.8
88 12.3 0.0 32.8

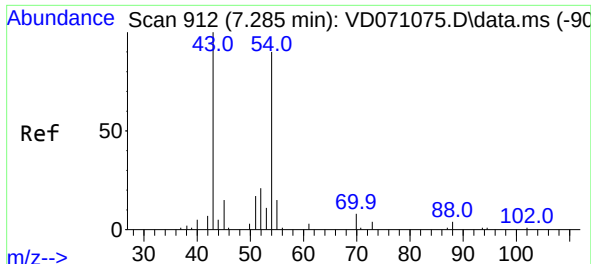


#35
Dibromofluoromethane
Concen: 48.014 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59



Tgt Ion:113 Resp: 2911
Ion Ratio Lower Upper
113 100
111 0.0 82.0 123.0#
192 6.9 15.2 22.8#





#37

Ethyl Acetate

Concen: 2.081 ug/l

RT: 7.344 min Scan# 91

Delta R.T. 0.059 min

Lab File: VD071284.D

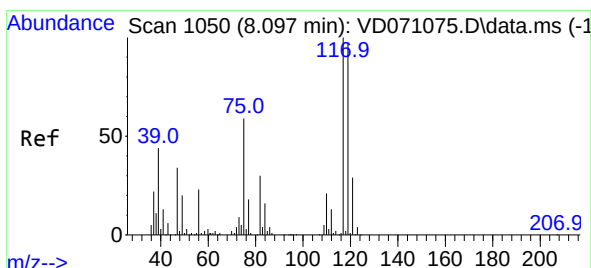
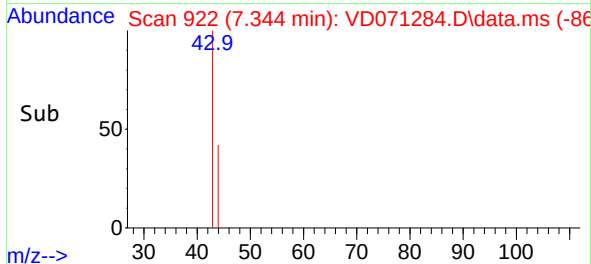
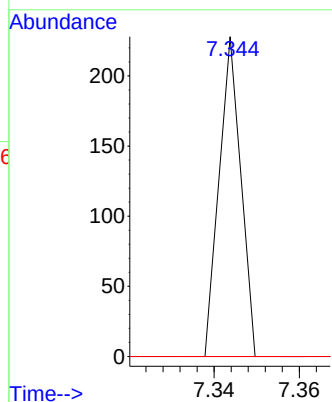
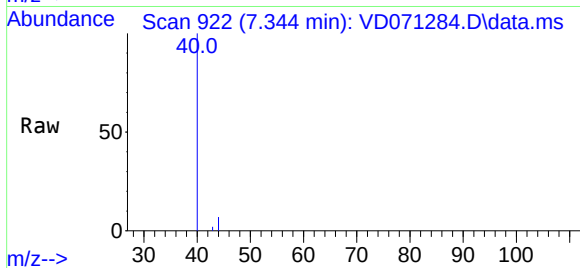
Acq: 11 Dec 2021 21:59

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43	Resp:	80
Ion	Ratio	Lower Upper
43	100	
61	0.0	13.0 19.6#
70	0.0	8.7 13.1#



#38

Carbon Tetrachloride

Concen: 4.366 ug/l

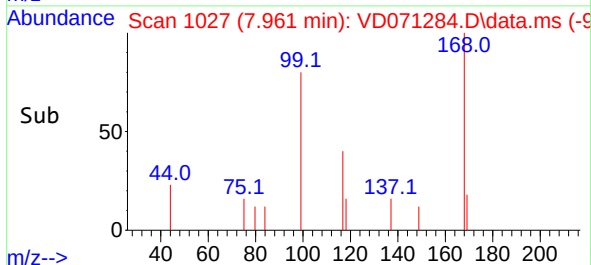
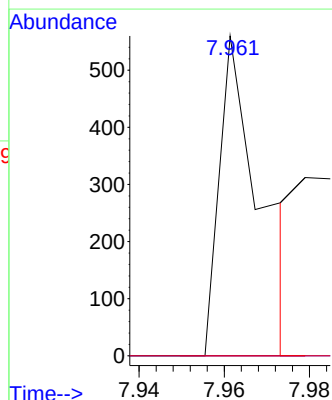
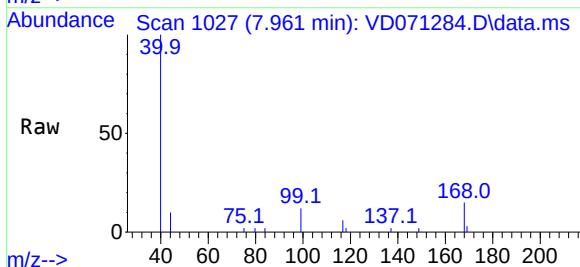
RT: 7.961 min Scan# 1027

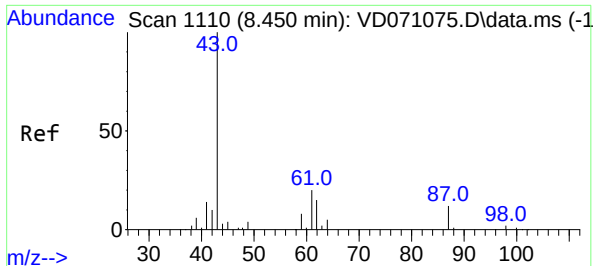
Delta R.T. -0.136 min

Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

Tgt Ion: 117	Resp:	383
Ion	Ratio	Lower Upper
117	100	
119	0.0	75.8 113.6#
121	0.0	23.6 35.4#





#43

Isopropyl Acetate

Concen: 6.779 ug/l

RT: 8.426 min Scan# 1110

Delta R.T. -0.024 min

Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

Instrument :

MSVOA_D

ClientSampleId :

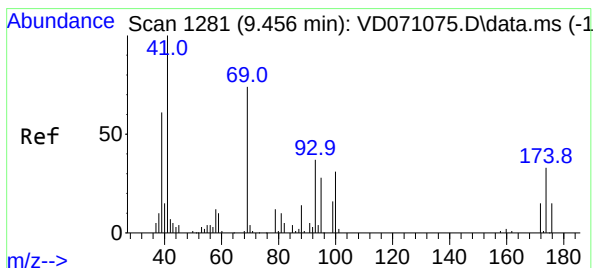
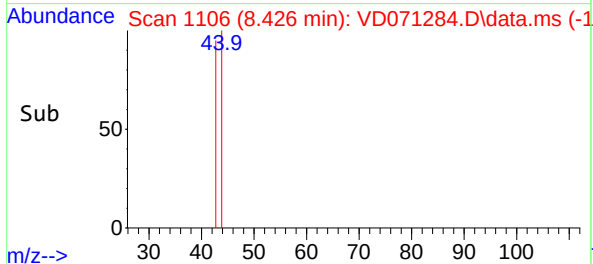
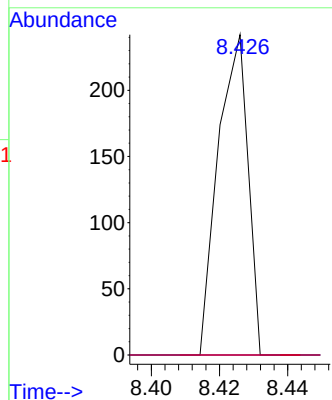
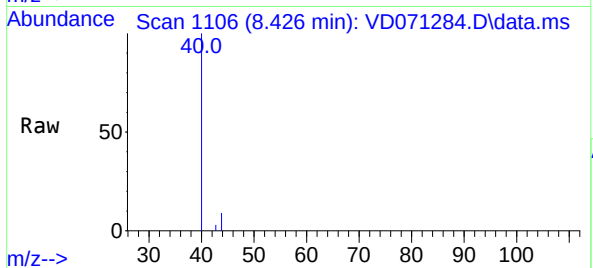
Tgt Ion: 43 Resp: 147

Ion Ratio Lower Upper

43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#



#48

Methyl methacrylate

Concen: 1.914 ug/l

RT: 9.450 min Scan# 1280

Delta R.T. -0.006 min

Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

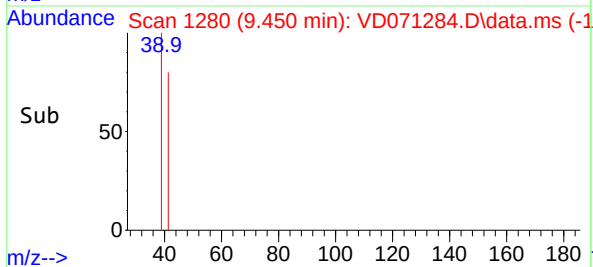
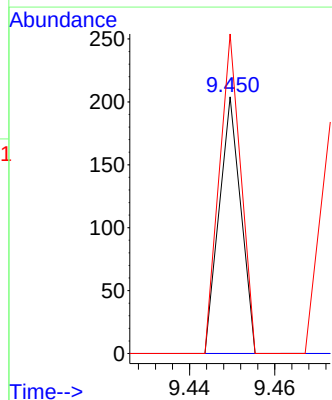
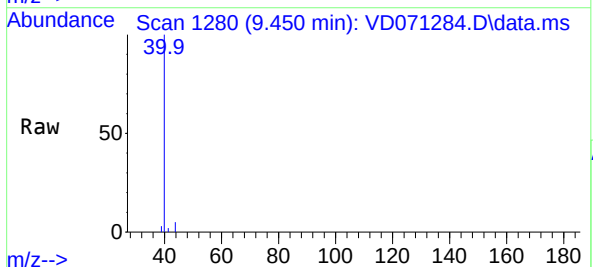
Tgt Ion: 41 Resp: 72

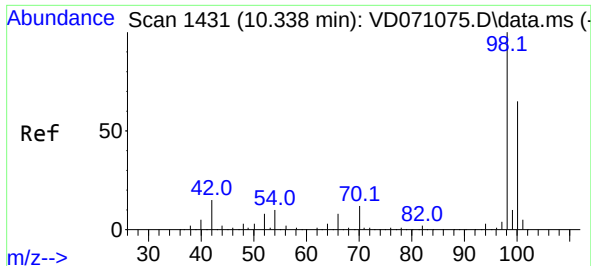
Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 125.0 35.6 53.4#

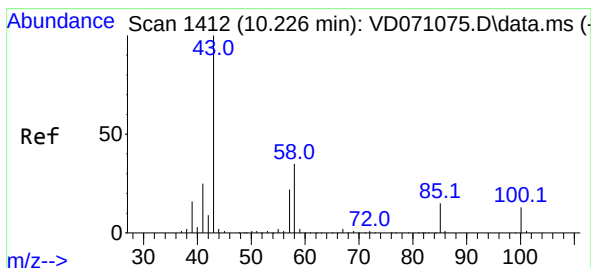
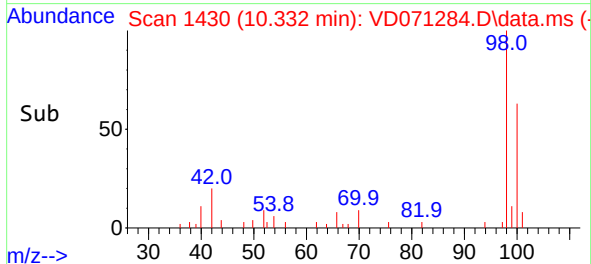
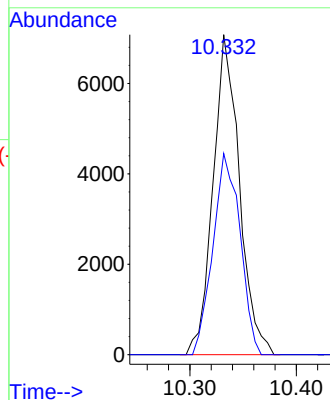
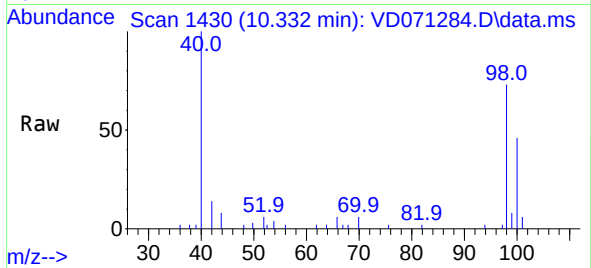




#50
Toluene-d8
Concen: 52.634 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

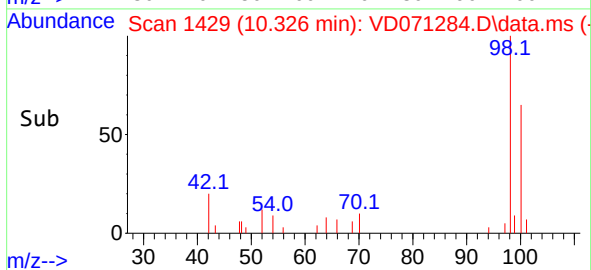
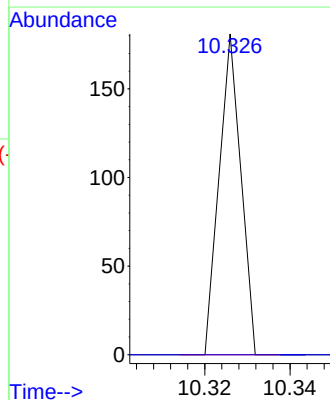
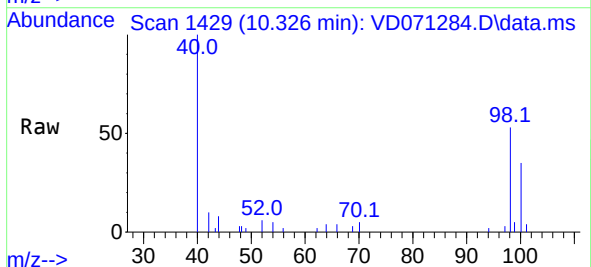
Instrument :
MSVOA_D
ClientSampleId :

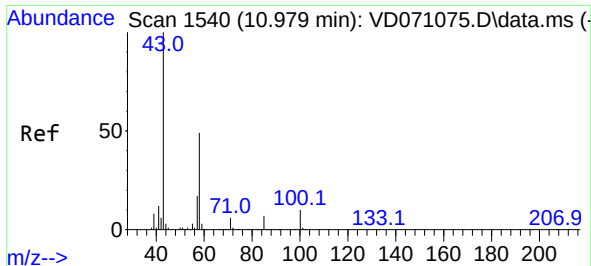
Tgt Ion: 98 Resp: 12144
Ion Ratio Lower Upper
98 100
100 64.8 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.947 ug/l
RT: 10.326 min Scan# 1429
Delta R.T. 0.100 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#





#59

2-Hexanone

Concen: 36.289 ug/l

RT: 11.085 min Scan# 11

Delta R.T. 0.106 min

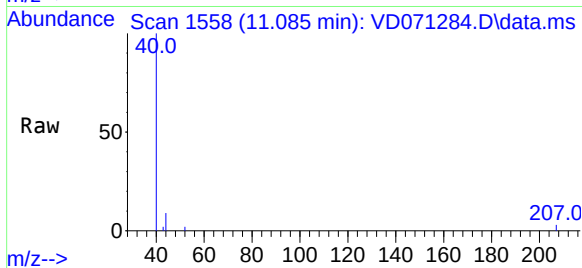
Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

Instrument :

MSVOA_D

ClientSampleId :

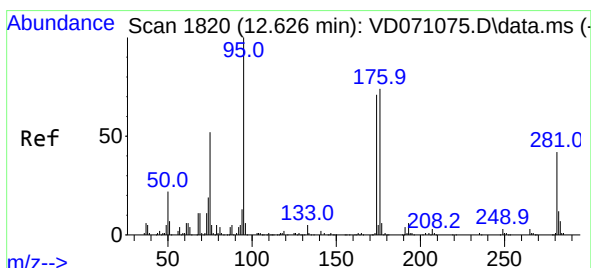
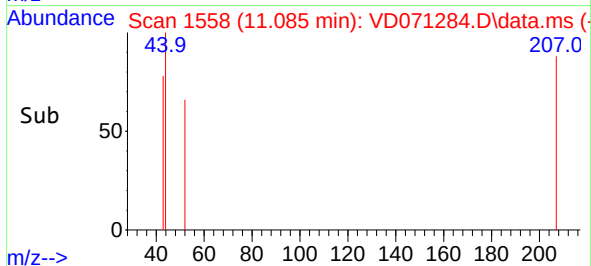
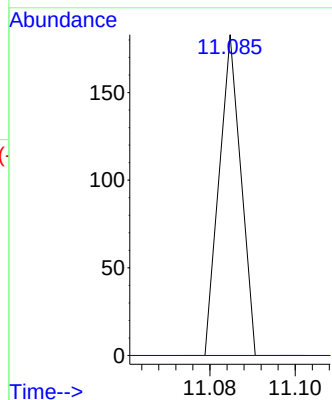


Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

58 0.0 28.7 86.1#



#62

4-Bromofluorobenzene

Concen: 67.144 ug/l

RT: 12.632 min Scan# 1821

Delta R.T. 0.006 min

Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

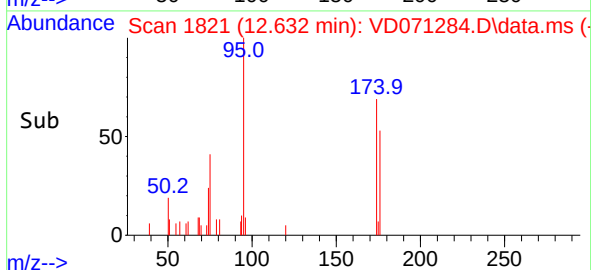
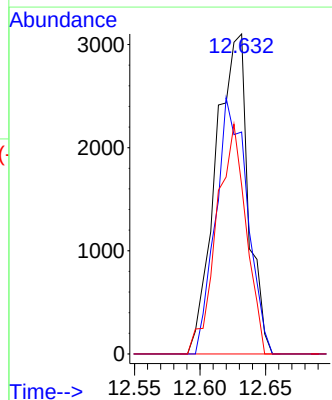
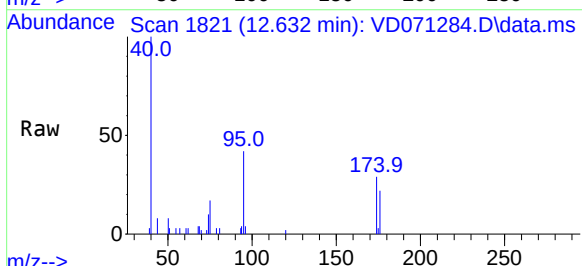
Tgt Ion: 95 Resp: 5370

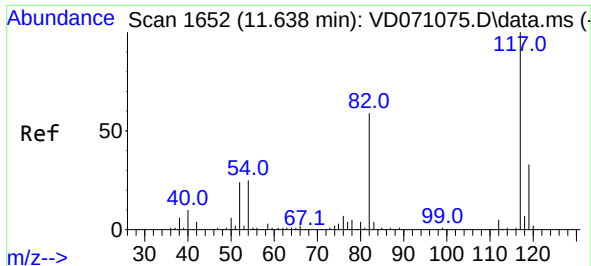
Ion Ratio Lower Upper

95 100

174 77.2 0.0 159.4

176 64.8 0.0 154.0

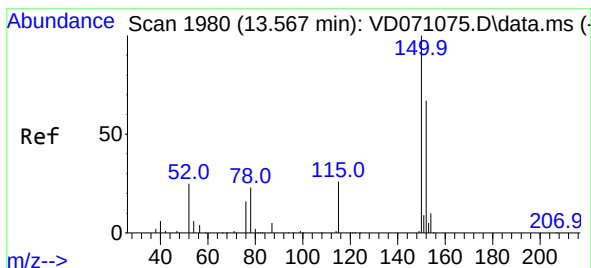
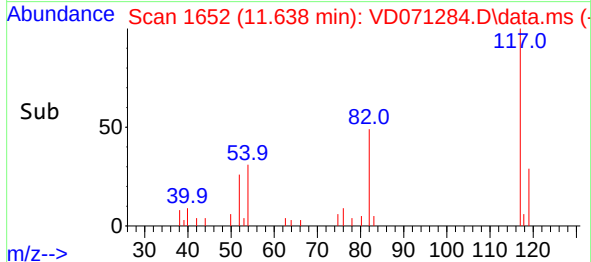
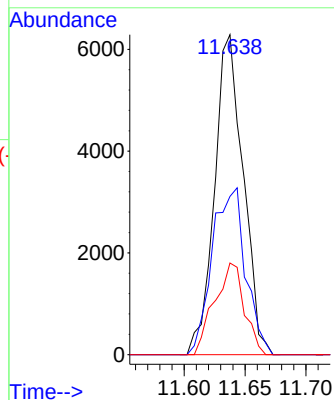
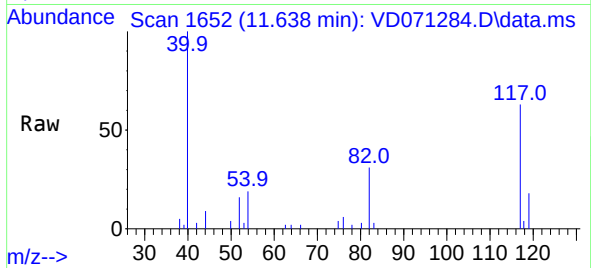




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

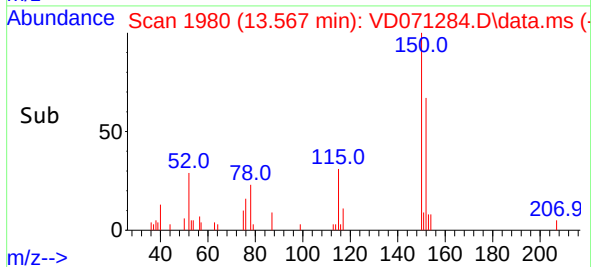
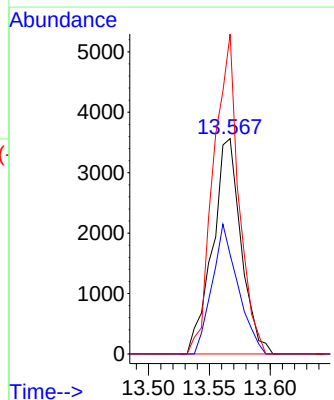
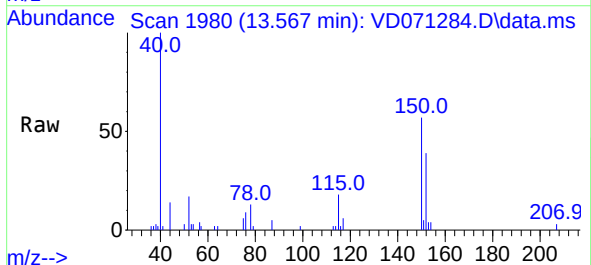
Instrument :
MSVOA_D
ClientSampleId :

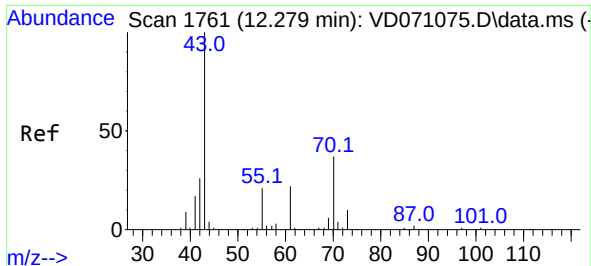
Tgt Ion:117 Resp: 10309
Ion Ratio Lower Upper
117 100
82 49.4 44.7 67.1
119 28.6 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

Tgt Ion:152 Resp: 5811
Ion Ratio Lower Upper
152 100
115 54.3 29.8 89.3
150 131.5 0.0 349.2

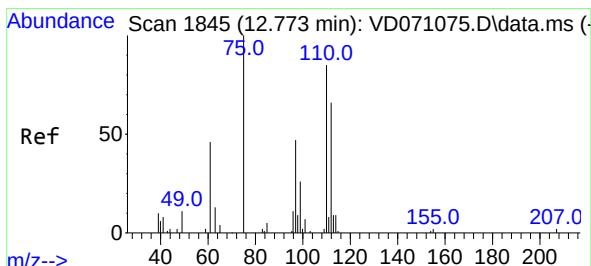
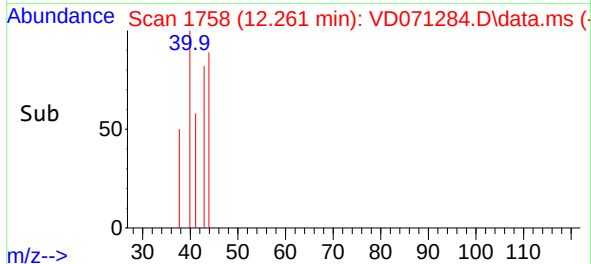
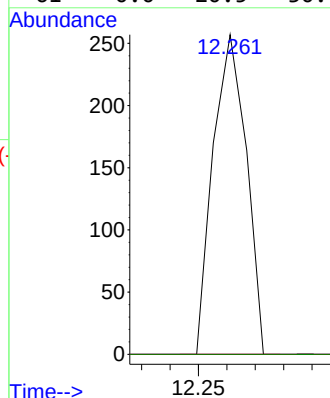
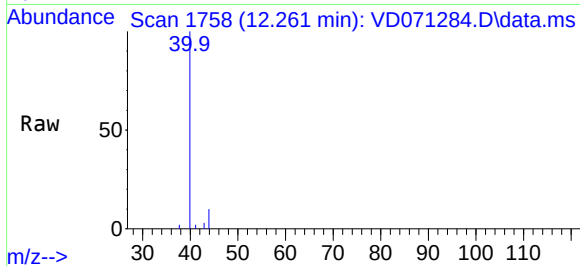




#74
N-amy1 acetate
Concen: 7.308 ug/l
RT: 12.261 min Scan# 11
Delta R.T. -0.018 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

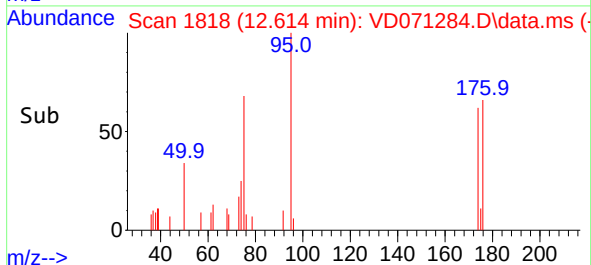
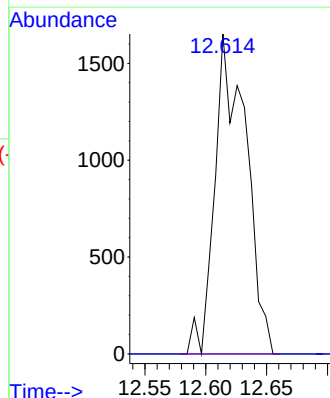
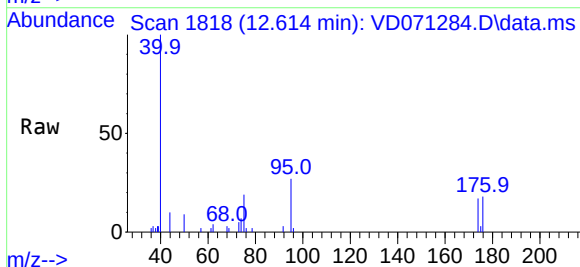
Instrument :
MSVOA_D
ClientSampleId :

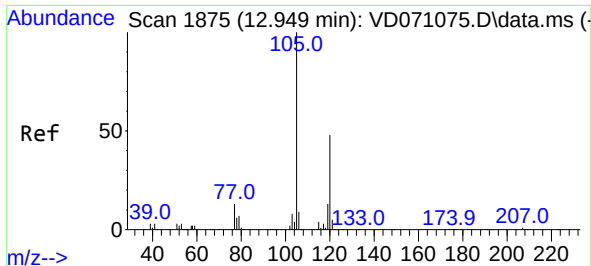
Tgt Ion: 43	Resp:	209
Ion	Ratio	Lower Upper
43	100	
70	0.0	36.6 55.0#
55	0.0	22.5 33.7#
61	0.0	20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 53.446 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.159 min
Lab File: VD071284.D
Acq: 11 Dec 2021 21:59

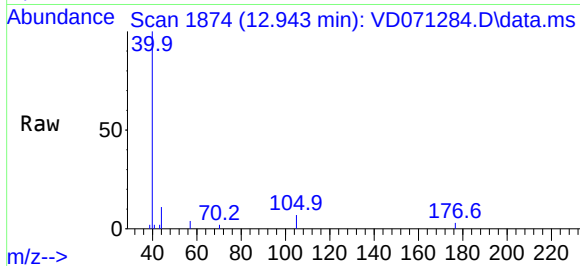
Tgt Ion: 75	Resp:	2959
Ion	Ratio	Lower Upper
75	100	
77	0.0	158.4 475.3#



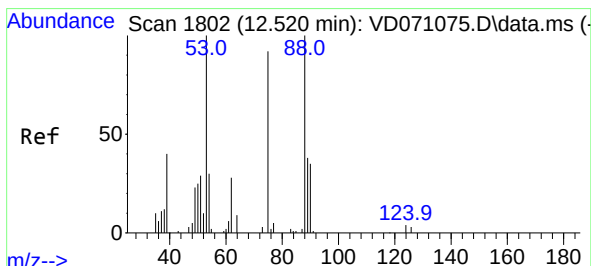
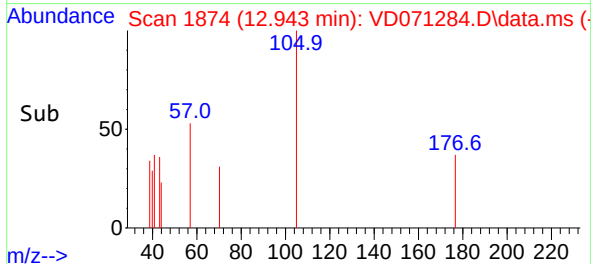
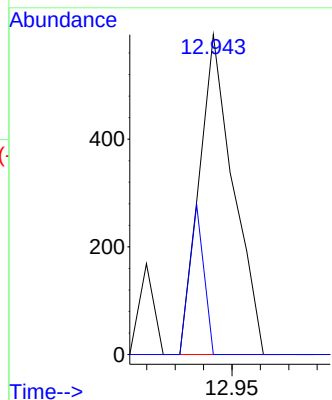


#80
 1,3,5-Trimethylbenzene
 Concen: 1.432 ug/l
 RT: 12.943 min Scan# 1875
 Delta R.T. -0.006 min
 Lab File: VD071284.D
 Acq: 11 Dec 2021 21:59

Instrument :
 MSVOA_D
 ClientSampleId :

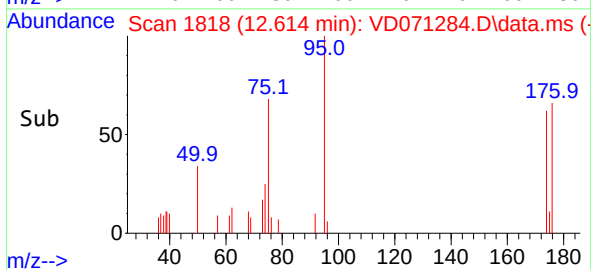
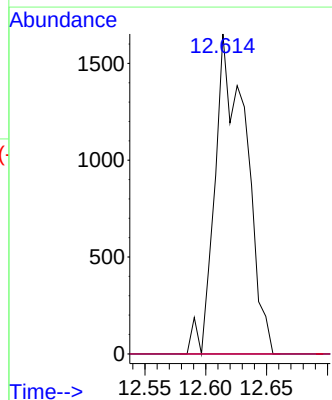
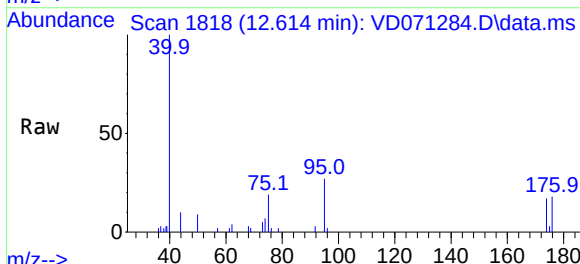


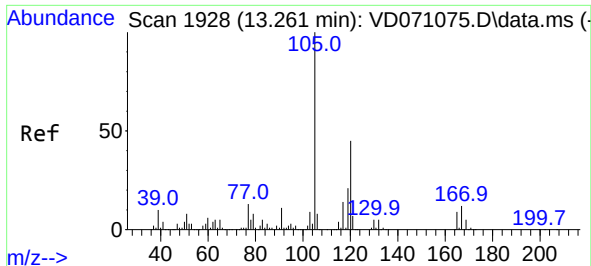
Tgt Ion:105 Resp: 497
 Ion Ratio Lower Upper
 105 100
 120 19.7 24.6 73.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 116.344 ug/l
 RT: 12.614 min Scan# 1818
 Delta R.T. 0.094 min
 Lab File: VD071284.D
 Acq: 11 Dec 2021 21:59

Tgt Ion: 75 Resp: 2959
 Ion Ratio Lower Upper
 75 100
 53 0.0 62.6 94.0#
 89 0.0 34.5 51.7#

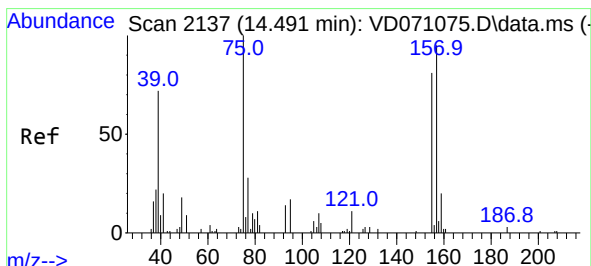
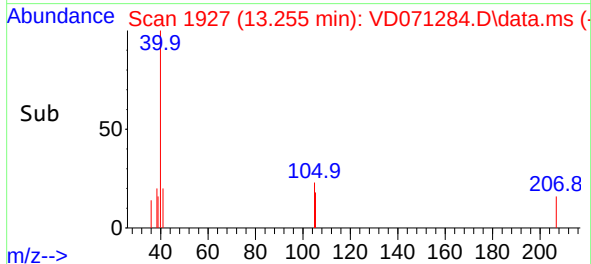
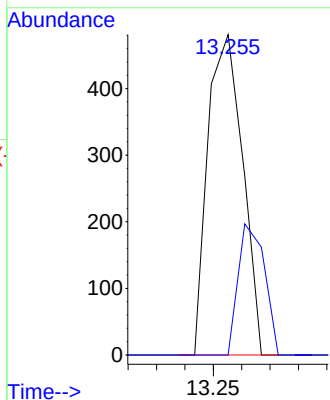
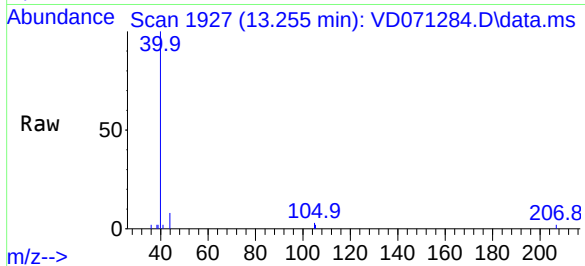




#84
 1,2,4-Trimethylbenzene
 Concen: 1.204 ug/l
 RT: 13.255 min Scan# 1928
 Delta R.T. -0.006 min
 Lab File: VD071284.D
 Acq: 11 Dec 2021 21:59

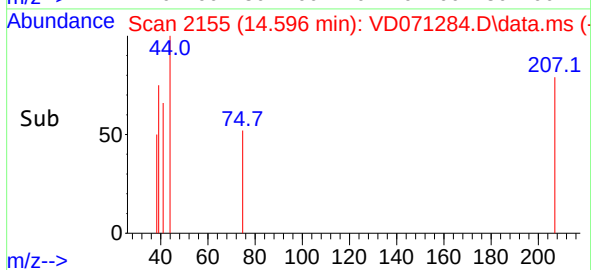
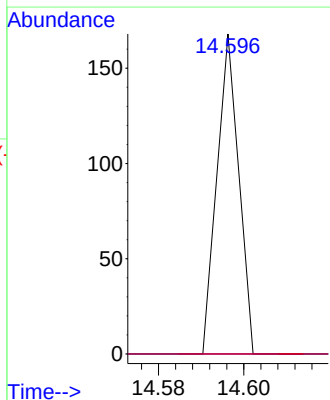
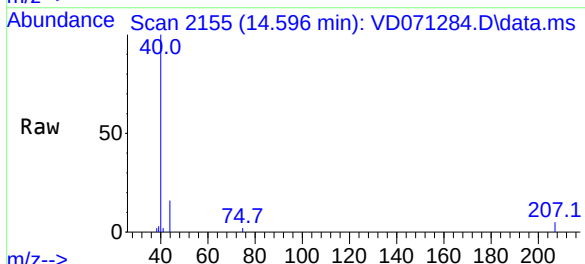
Instrument :
 MSVOA_D
 ClientSampleId :

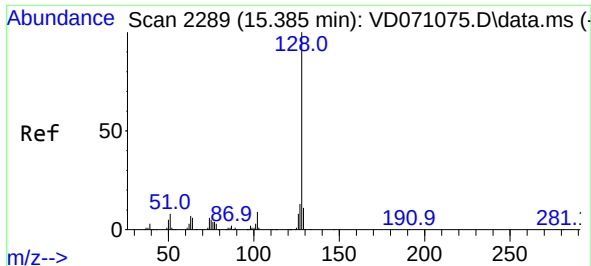
Tgt Ion:105 Resp: 408
 Ion Ratio Lower Upper
 105 100
 120 31.1 22.9 68.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.229 ug/l
 RT: 14.596 min Scan# 2155
 Delta R.T. 0.105 min
 Lab File: VD071284.D
 Acq: 11 Dec 2021 21:59

Tgt Ion: 75 Resp: 59
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.0 120.0#
 157 0.0 49.8 149.3#





#95

Naphthalene

Concen: 10.752 ug/l

RT: 15.384 min Scan# 21

Delta R.T. -0.001 min

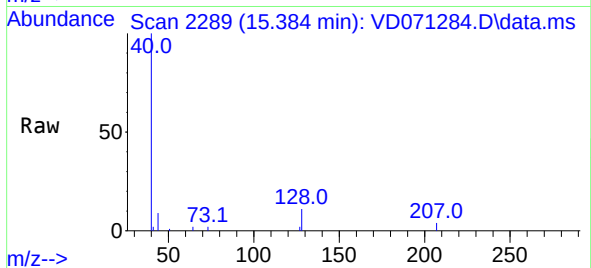
Lab File: VD071284.D

Acq: 11 Dec 2021 21:59

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:128 Resp: 1824

Ion Ratio Lower Upper

128 100

127 11.6 10.7 16.1

129 4.0 8.7 13.1#

