

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121421\
 Data File : VD071324.D
 Acq On : 14 Dec 2021 16:52
 Operator : VA/SY
 Sample : M5068-01
 Misc : 5.10G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 15 08:31:33 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)

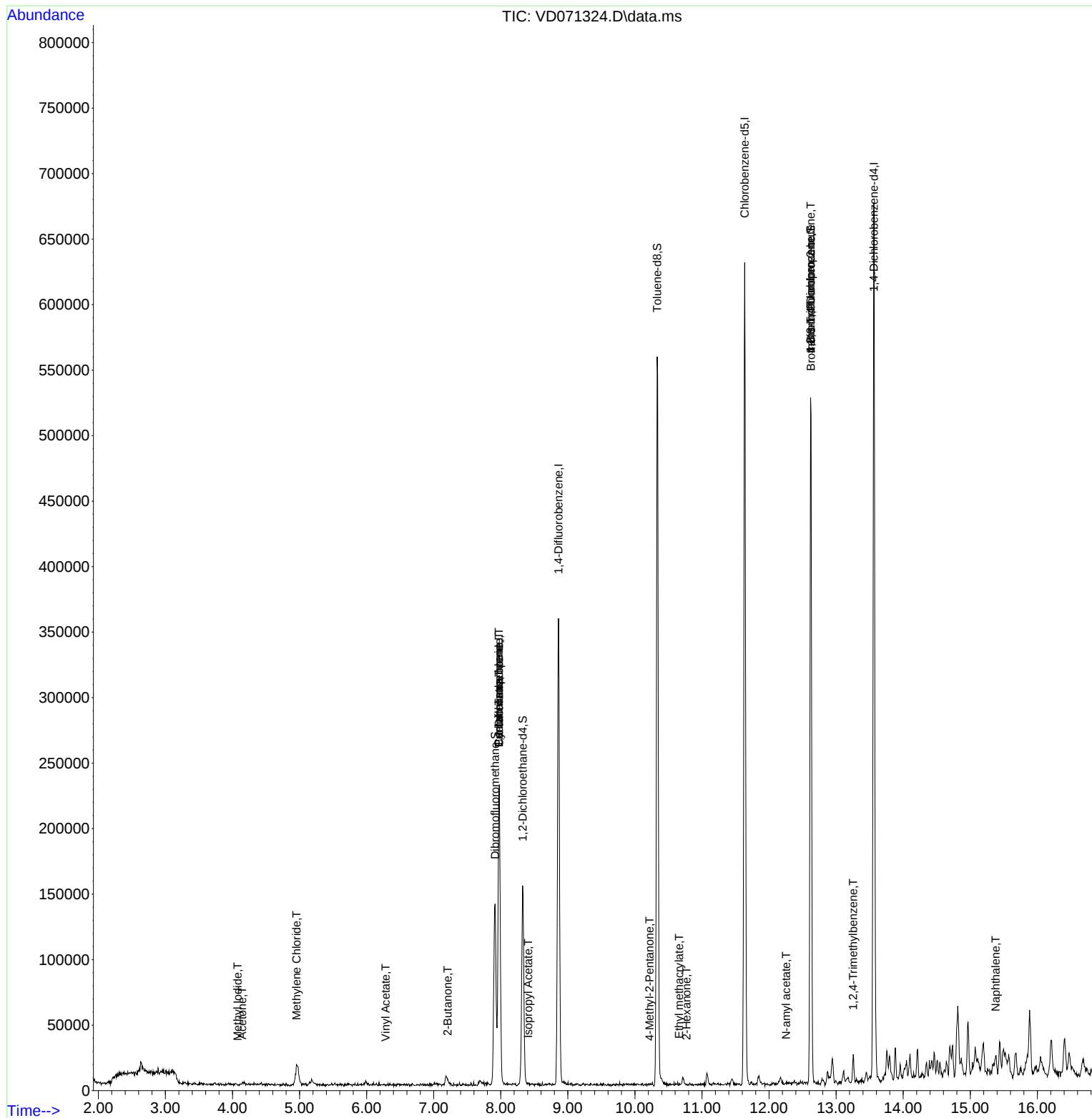
Internal Standards						
1) Pentafluorobenzene	7.973	168	159329	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	283743	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	330698	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	163773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	116764	62.456	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.920%	
35) Dibromofluoromethane	7.914	113	95880	53.065	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.120%	
50) Toluene-d8	10.332	98	361048	52.509	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 105.020%	
62) 4-Bromofluorobenzene	12.620	95	164370	68.963	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 137.920%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.079	142	73	4.596	ug/l #	40
11) Tert butyl alcohol	5.185	59	2397	Below Cal	#	71
16) Acetone	4.144	43	3074	36.226	ug/l #	67
20) Methylene Chloride	4.956	84	10868	1.729	ug/l	90
23) Vinyl Acetate	6.285	43	176	27.270	ug/l #	72
25) 2-Butanone	7.208	43	211	28.685	ug/l #	15
31) Cyclohexane	7.973	56	5654	1.778	ug/l #	47
36) 1,1-Dichloropropene	7.973	75	15351	5.789	ug/l #	53
38) Carbon Tetrachloride	7.973	117	16910	6.469	ug/l #	16
41) Methacrylonitrile	7.567	41	151	Below Cal	#	12
43) Isopropyl Acetate	8.408	43	59	5.244	ug/l #	47
51) 4-Methyl-2-Pentanone	10.220	43	89	30.712	ug/l #	34
56) Ethyl methacrylate	10.661	69	71	6.004	ug/l #	1
59) 2-Hexanone	10.767	43	121	34.681	ug/l	99
71) Bromoform	12.626	173	1881	1.621	ug/l #	1
74) N-amyl acetate	12.255	43	690	5.889	ug/l #	51
76) 1,2,3-Trichloropropane	12.620	75	90246	57.837	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	90246	125.429	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.255	105	10550	1.105	ug/l	96
95) Naphthalene	15.379	128	9182	1.920	ug/l #	88

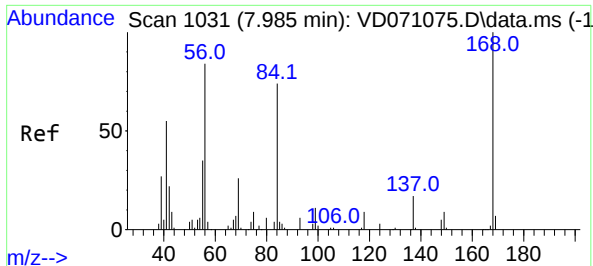
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 15 08:31:33 2021
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Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
Response via : Initial Calibration

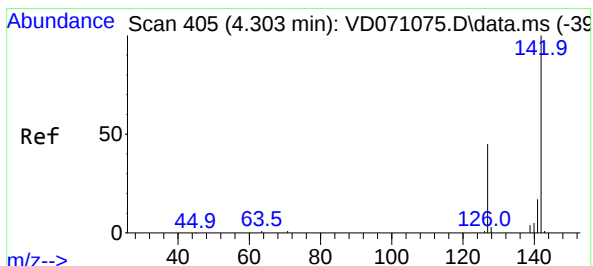
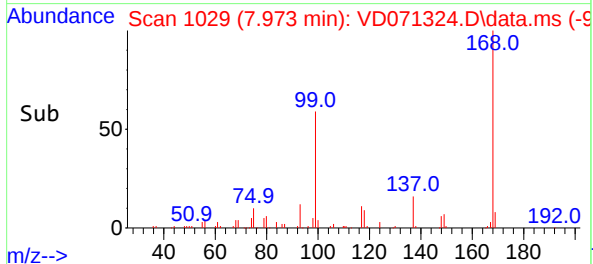
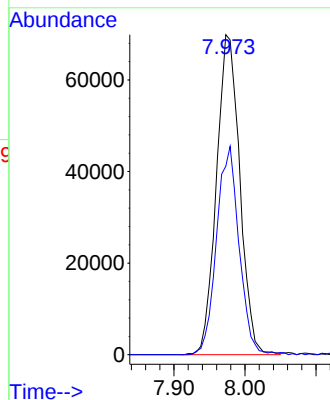
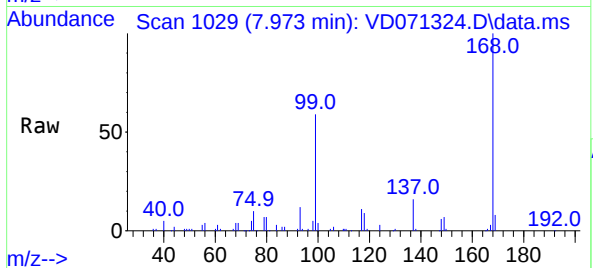




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.012 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

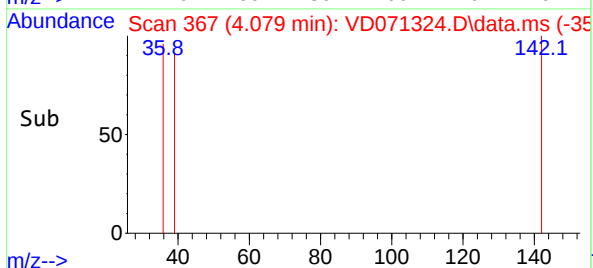
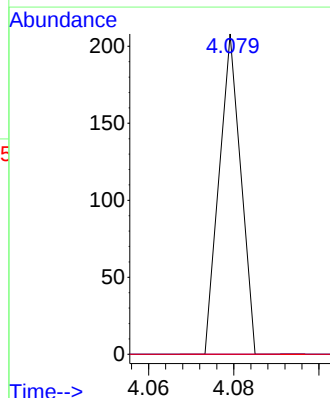
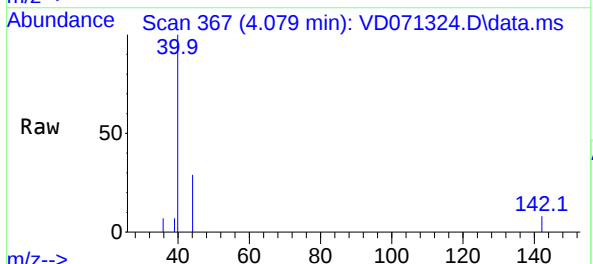
Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:168 Resp: 159329
Ion Ratio Lower Upper
168 100
99 58.9 46.6 69.8



#10
Methyl Iodide
Concen: 4.596 ug/l
RT: 4.079 min Scan# 367
Delta R.T. -0.224 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion:142 Resp: 73
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

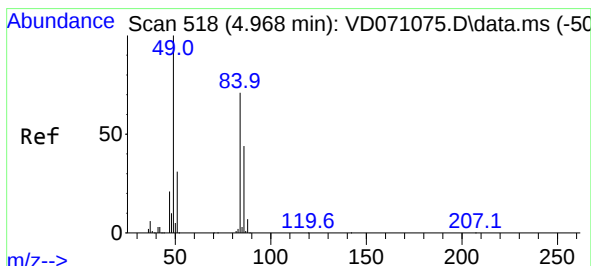
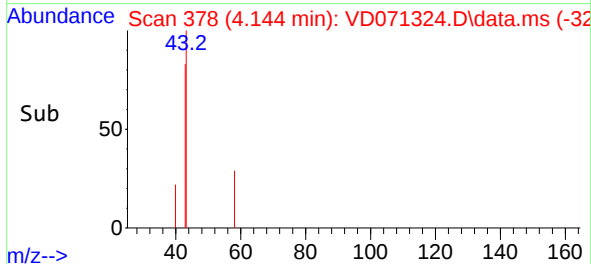
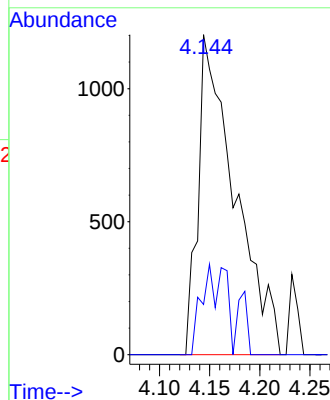
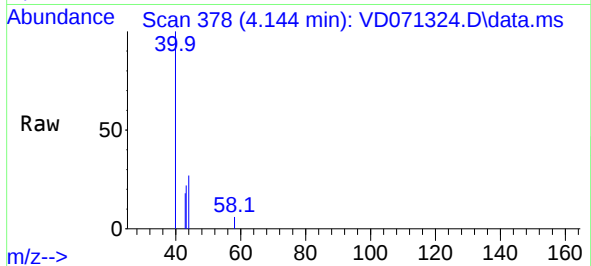




#16
Acetone
Concen: 36.226 ug/l
RT: 4.144 min Scan# 31
Delta R.T. -0.012 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

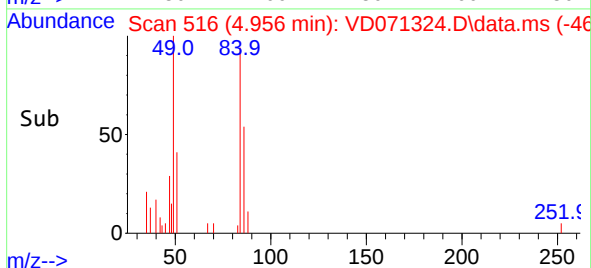
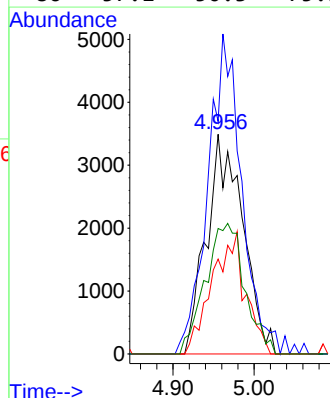
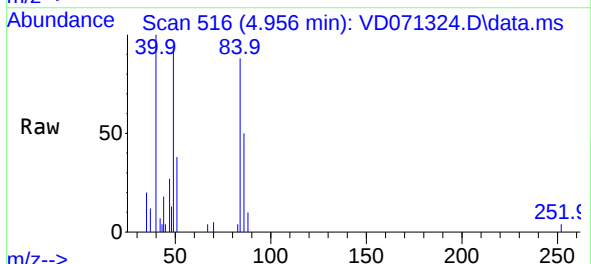
Instrument :
MSVOA_D
ClientSampleId :

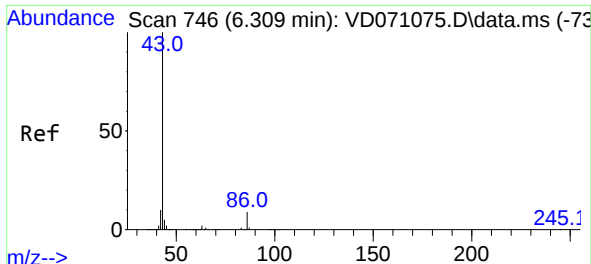
Tgt Ion: 43 Resp: 3074
Ion Ratio Lower Upper
43 100
58 15.7 27.8 41.8#



#20
Methylene Chloride
Concen: 1.729 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.012 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

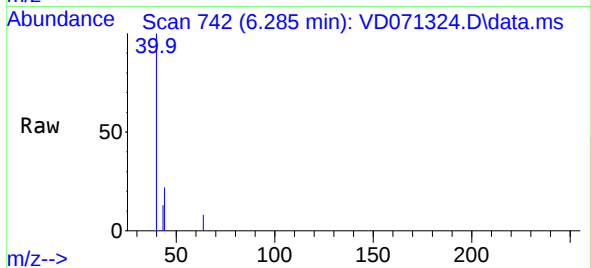
Tgt Ion: 84 Resp: 10868
Ion Ratio Lower Upper
84 100
49 105.8 95.8 143.6
51 43.2 30.9 46.3
86 57.1 50.3 75.5



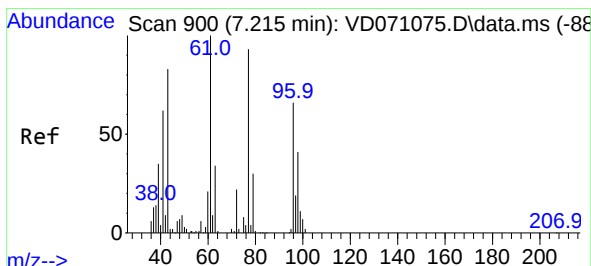
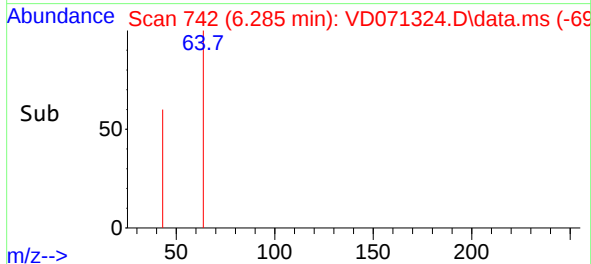
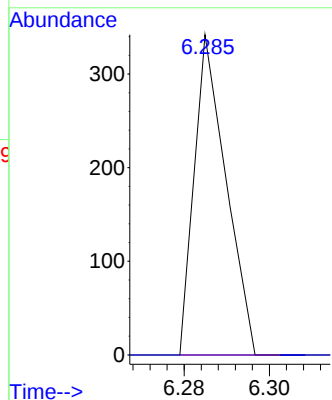


#23
 Vinyl Acetate
 Concen: 27.270 ug/l
 RT: 6.285 min Scan# 746
 Delta R.T. -0.024 min
 Lab File: VD071324.D
 Acq: 14 Dec 2021 16:52

Instrument :
 MSVOA_D
 ClientSampleId :

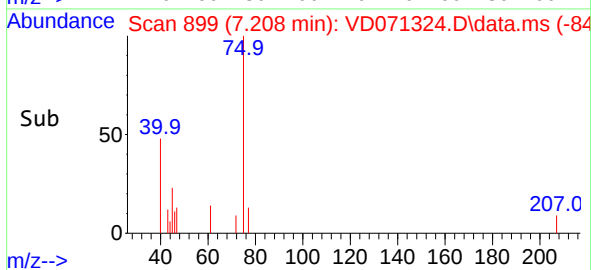
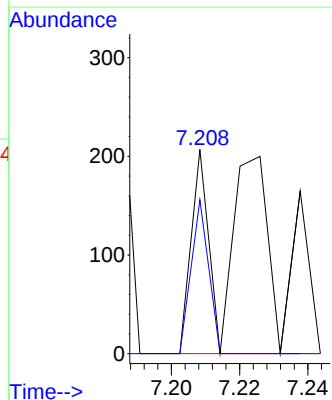
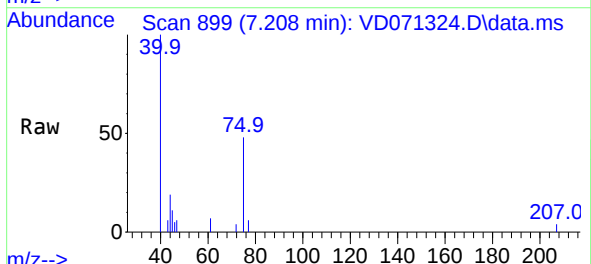


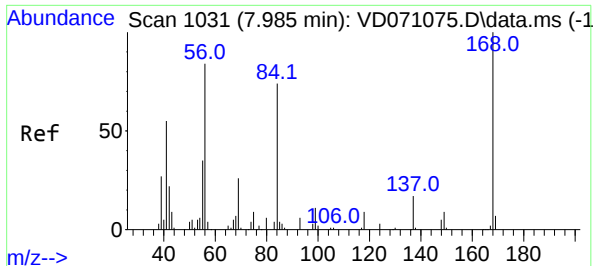
Tgt Ion: 43 Resp: 176
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 28.685 ug/l
 RT: 7.208 min Scan# 899
 Delta R.T. -0.007 min
 Lab File: VD071324.D
 Acq: 14 Dec 2021 16:52

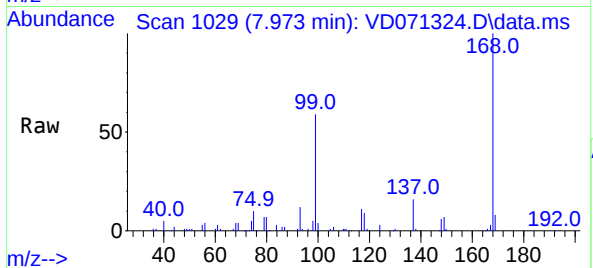
Tgt Ion: 43 Resp: 211
 Ion Ratio Lower Upper
 43 100
 72 75.4 23.8 35.6#



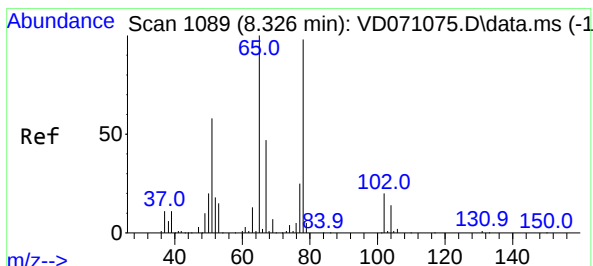
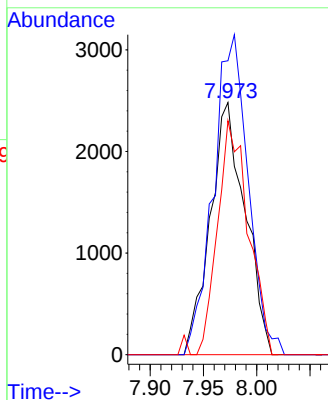
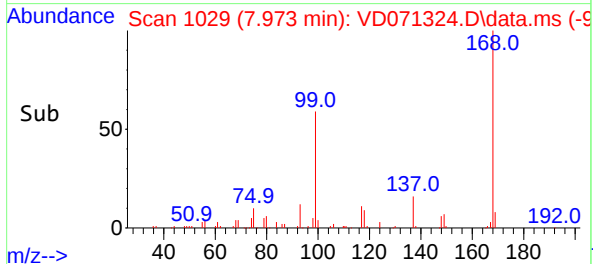


#31
Cyclohexane
Concen: 1.778 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Instrument :
MSVOA_D
ClientSampleId :

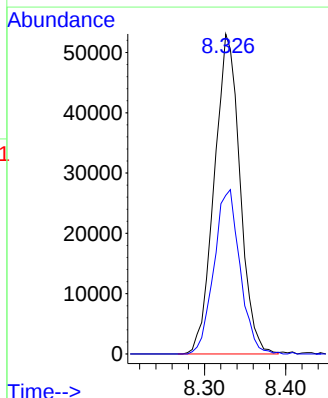
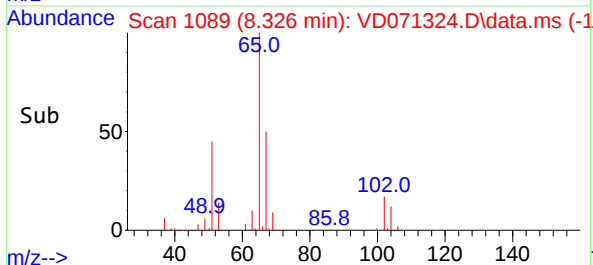
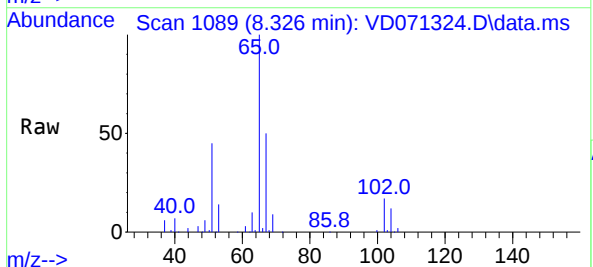


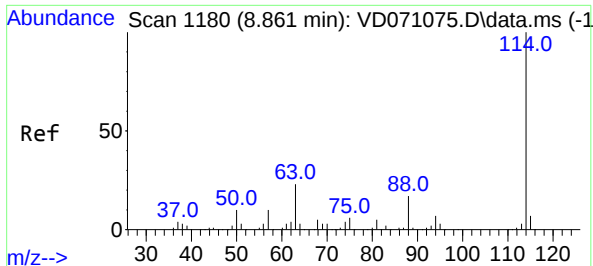
Tgt Ion: 56 Resp: 5654
Ion Ratio Lower Upper
56 100
69 116.6 25.9 38.9#
84 92.7 64.3 96.5



#33
1,2-Dichloroethane-d4
Concen: 62.456 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion: 65 Resp: 116764
Ion Ratio Lower Upper
65 100
67 52.0 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: VD071324.D

Acq: 14 Dec 2021 16:52

Instrument :

MSVOA_D

ClientSampleId :

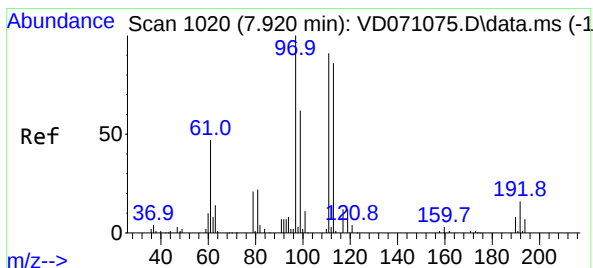
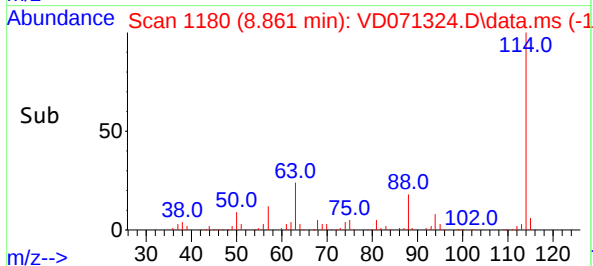
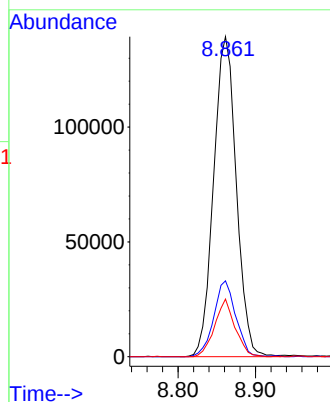
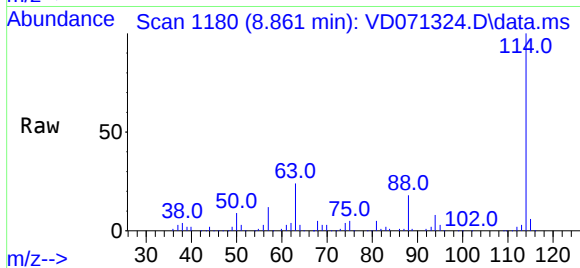
Tgt Ion:114 Resp: 283743

Ion Ratio Lower Upper

114 100

63 23.7 0.0 41.8

88 18.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 53.065 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071324.D

Acq: 14 Dec 2021 16:52

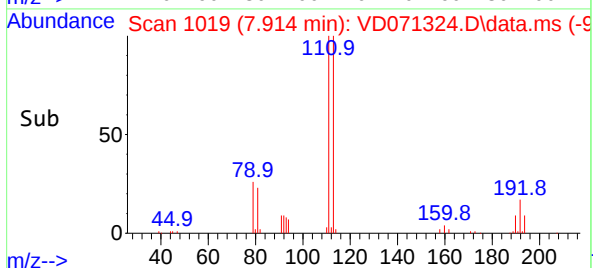
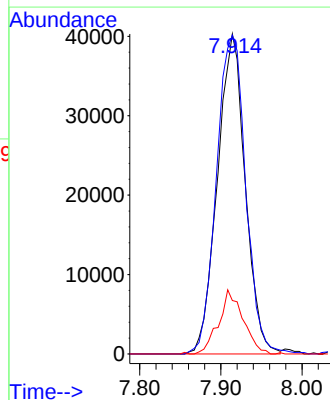
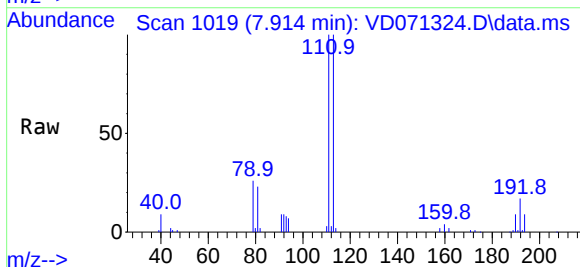
Tgt Ion:113 Resp: 95880

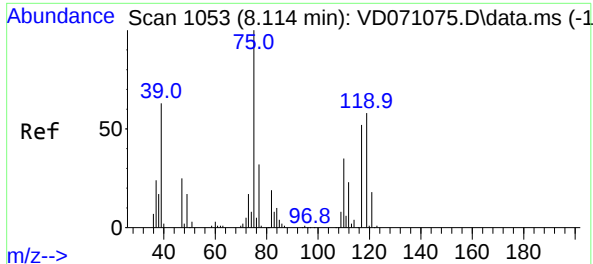
Ion Ratio Lower Upper

113 100

111 104.8 82.0 123.0

192 17.6 15.2 22.8

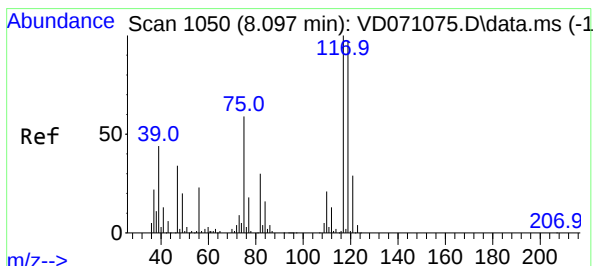
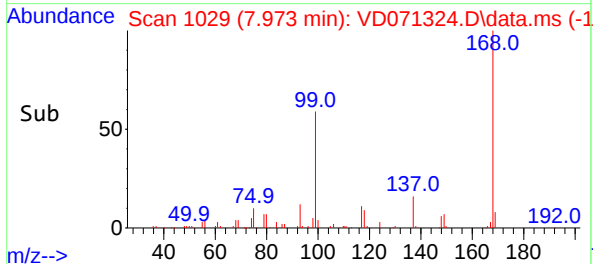
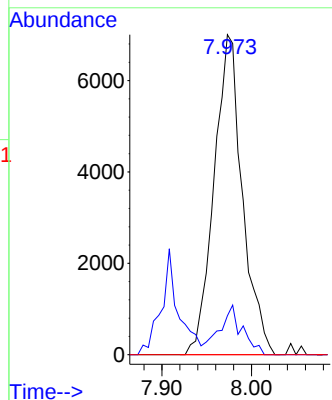
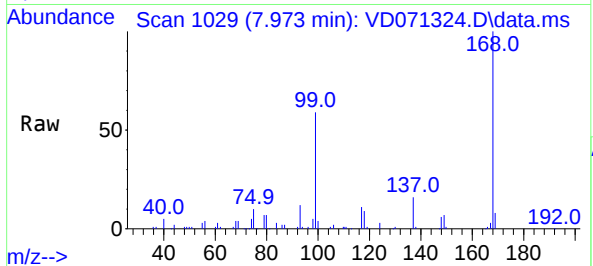




#36
1,1-Dichloropropene
Concen: 5.789 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.141 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

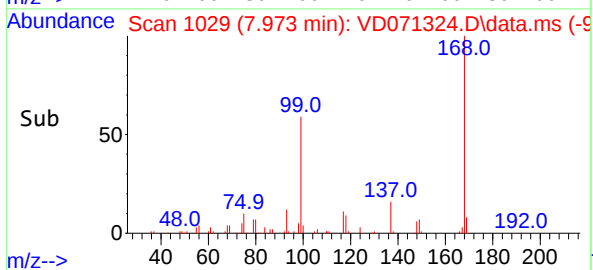
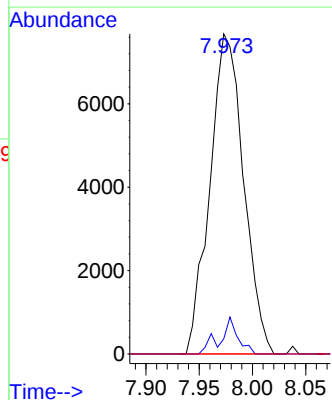
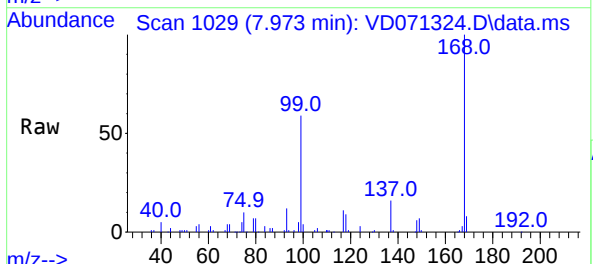
Instrument :
MSVOA_D
ClientSampleId :

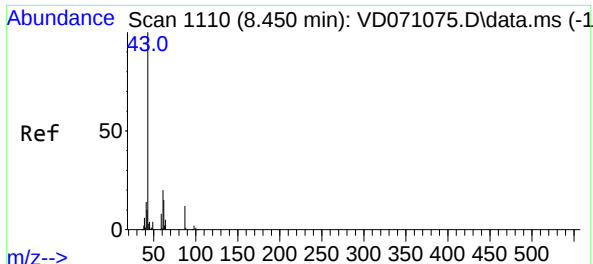
Tgt Ion: 75 Resp: 15351
Ion Ratio Lower Upper
75 100
110 12.6 17.8 53.4#
77 0.0 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 6.469 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

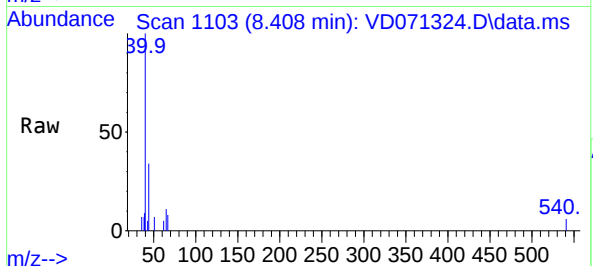
Tgt Ion: 117 Resp: 16910
Ion Ratio Lower Upper
117 100
119 4.7 75.8 113.6#
121 0.0 23.6 35.4#



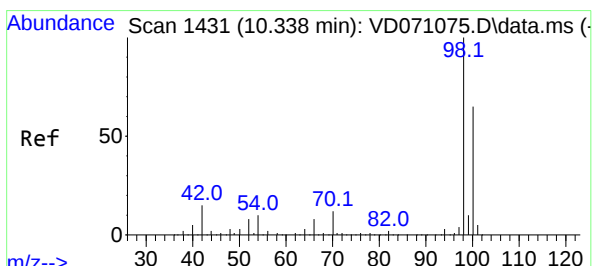
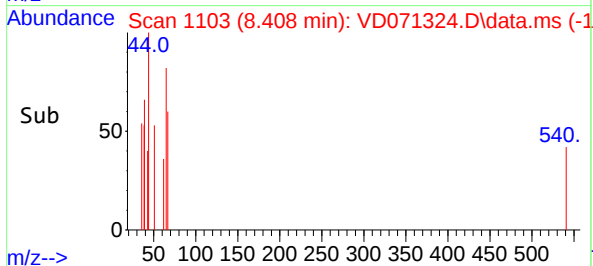
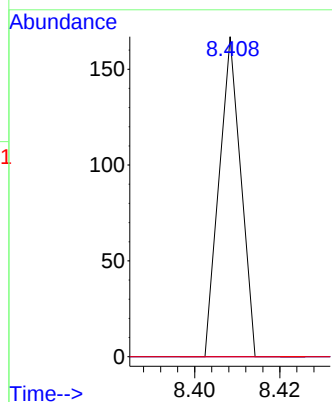


#43
Isopropyl Acetate
Concen: 5.244 ug/l
RT: 8.408 min Scan# 1110
Delta R.T. -0.042 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Instrument :
MSVOA_D
ClientSampleId :

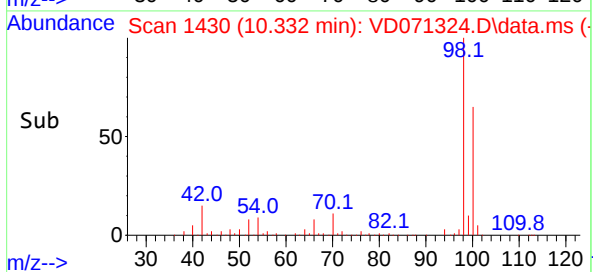
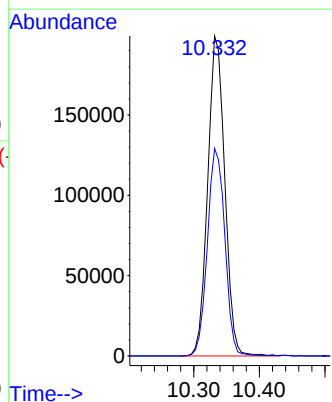
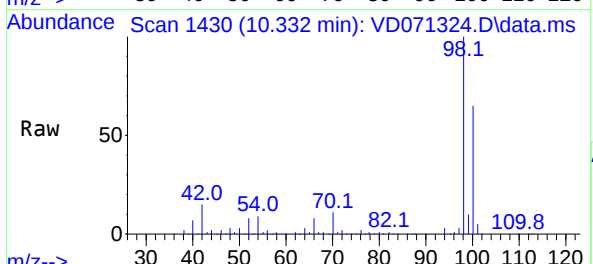


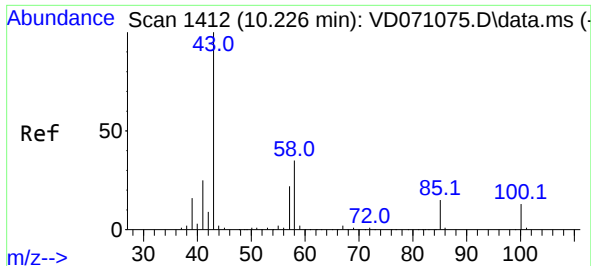
Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#50
Toluene-d8
Concen: 52.509 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion: 98 Resp: 361048
Ion Ratio Lower Upper
98 100
100 66.3 51.8 77.6

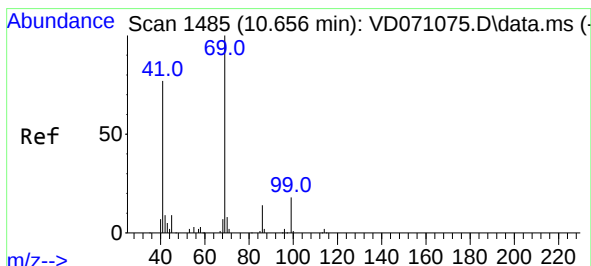
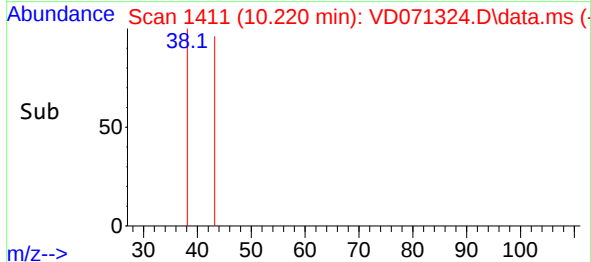
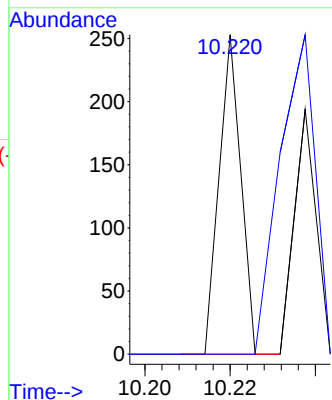
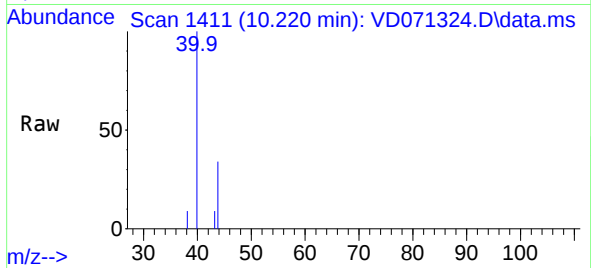




#51
4-Methyl-2-Pentanone
Concen: 30.712 ug/l
RT: 10.220 min Scan# 1412
Delta R.T. -0.006 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

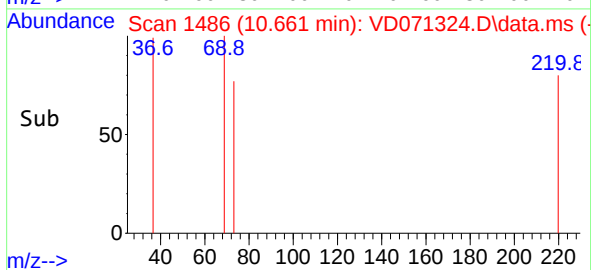
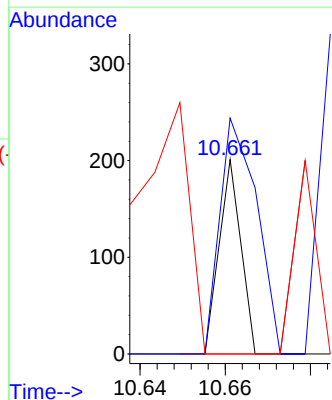
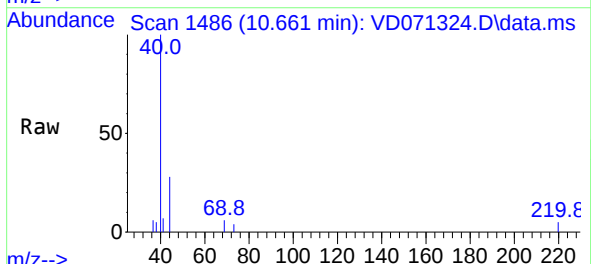
Instrument :
MSVOA_D
ClientSampleId :

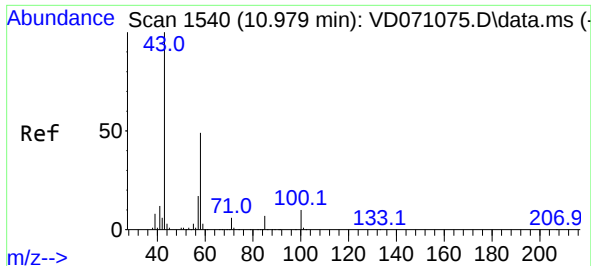
Tgt Ion: 43 Resp: 89
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#56
Ethyl methacrylate
Concen: 6.004 ug/l
RT: 10.661 min Scan# 1486
Delta R.T. 0.005 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

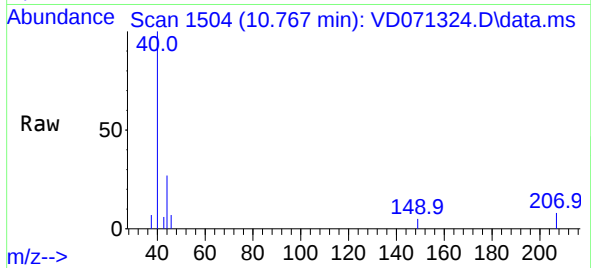
Tgt Ion: 69 Resp: 71
Ion Ratio Lower Upper
69 100
41 207.0 50.2 75.2#
39 300.0 19.8 29.8#



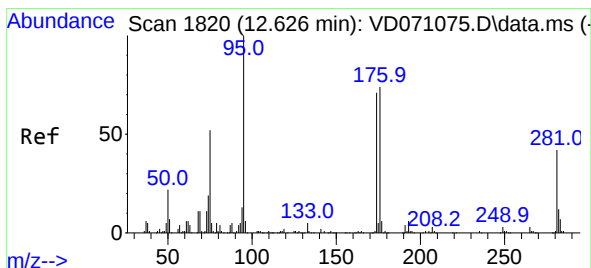
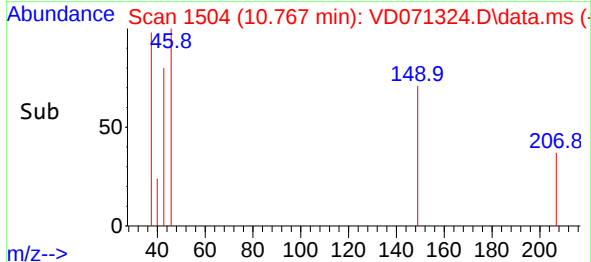
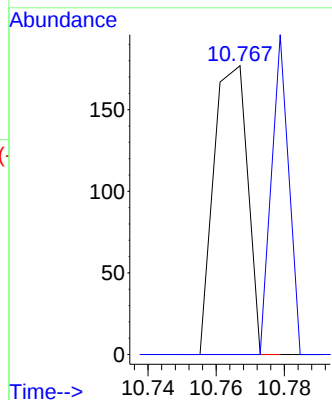


#59
2-Hexanone
Concen: 34.681 ug/l
RT: 10.767 min Scan# 11
Delta R.T. -0.212 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Instrument :
MSVOA_D
ClientSampleId :

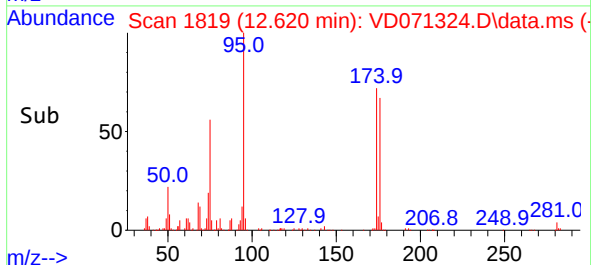
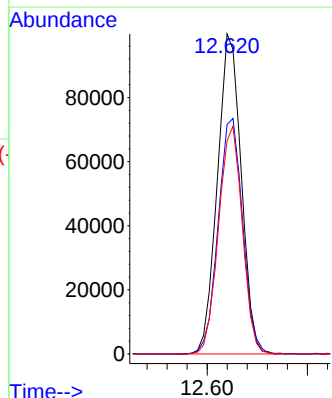
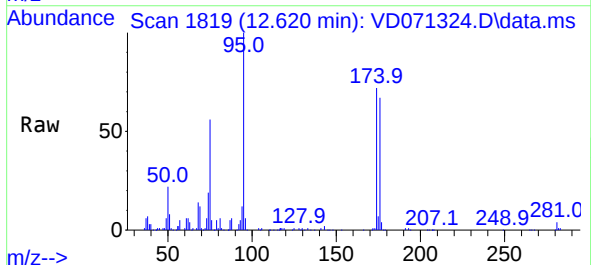


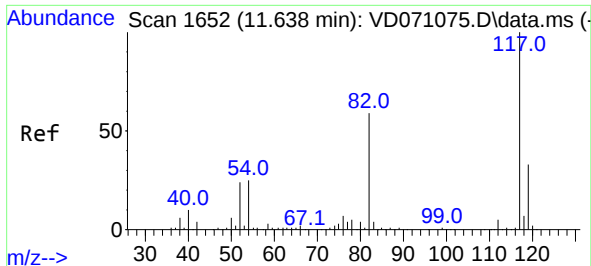
Tgt Ion: 43 Resp: 121
Ion Ratio Lower Upper
43 100
58 57.0 28.7 86.1



#62
4-Bromofluorobenzene
Concen: 68.963 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion: 95 Resp: 164370
Ion Ratio Lower Upper
95 100
174 75.7 0.0 159.4
176 70.8 0.0 154.0

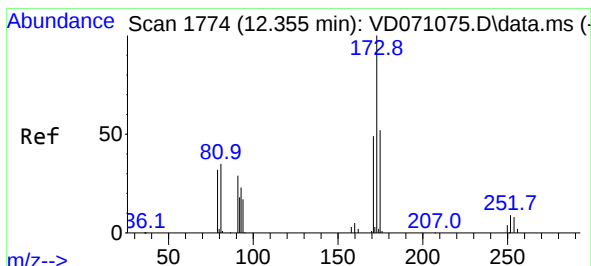
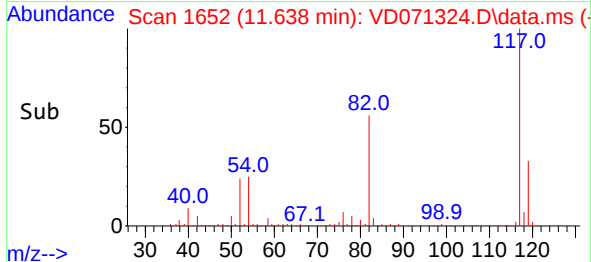
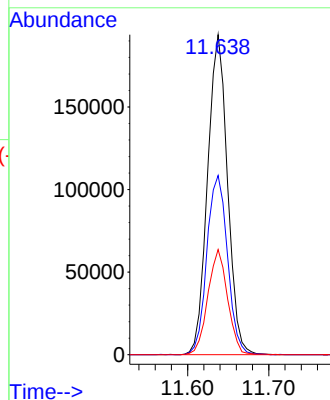
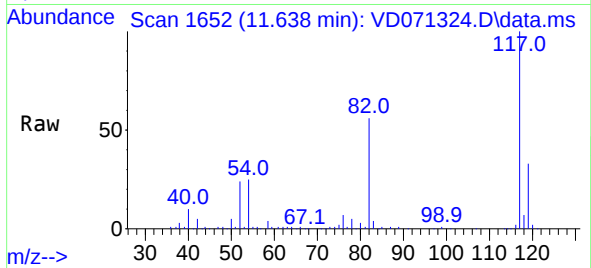




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

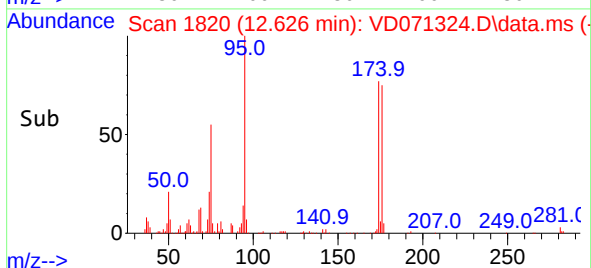
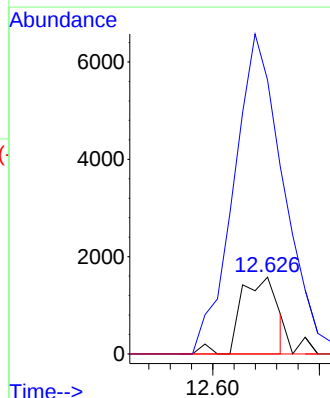
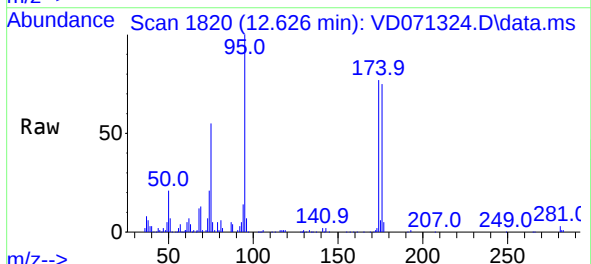
Instrument :
MSVOA_D
ClientSampleId :

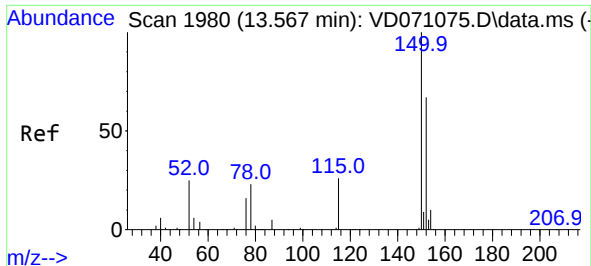
Tgt Ion:117 Resp: 330698
Ion Ratio Lower Upper
117 100
82 56.0 44.7 67.1
119 32.9 26.2 39.4



#71
Bromoform
Concen: 1.621 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion:173 Resp: 1881
Ion Ratio Lower Upper
173 100
175 485.1 24.1 72.2#
254 0.0 0.1 0.1#

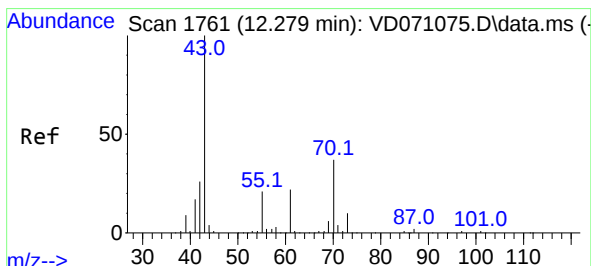
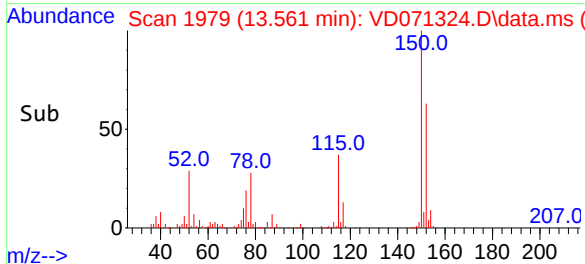
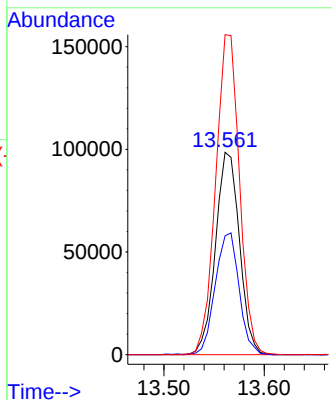
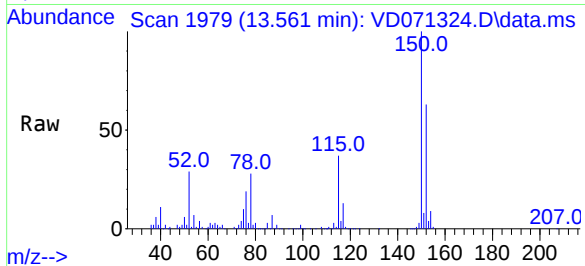




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

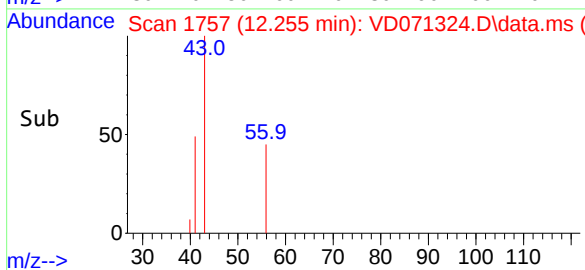
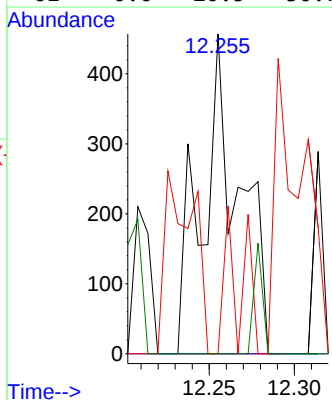
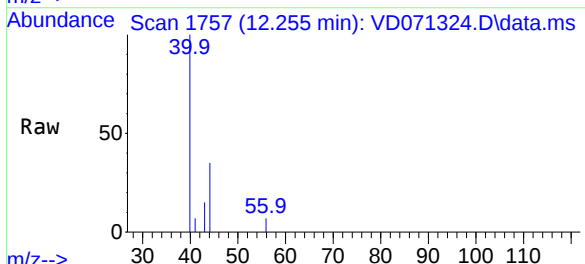
Instrument :
MSVOA_D
ClientSampleId :

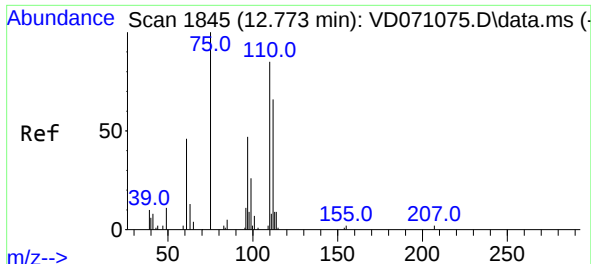
Tgt Ion:152 Resp: 163773
Ion Ratio Lower Upper
152 100
115 60.1 29.8 89.3
150 157.0 0.0 349.2



#74
N-ethyl acetate
Concen: 5.889 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion: 43 Resp: 690
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 21.0 22.5 33.7#
61 0.0 20.5 30.7#

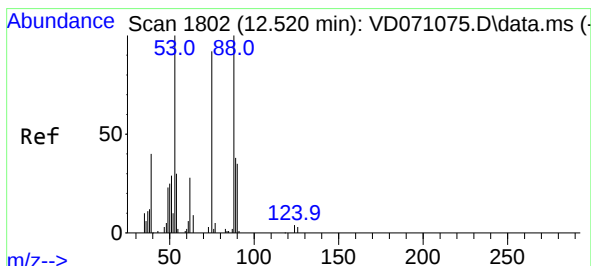
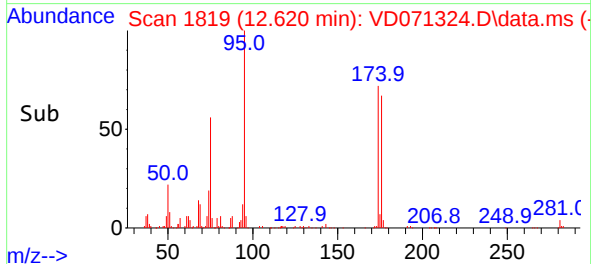
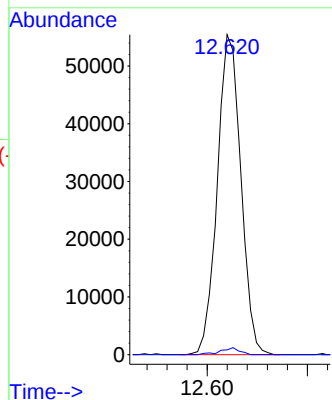
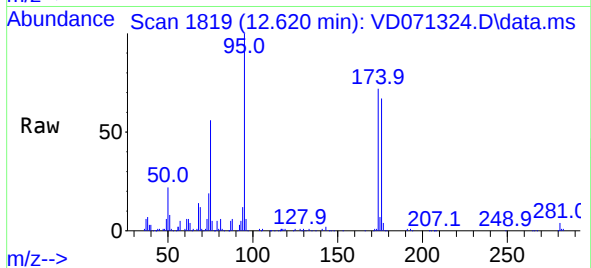




#76
1,2,3-Trichloropropane
Concen: 57.837 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

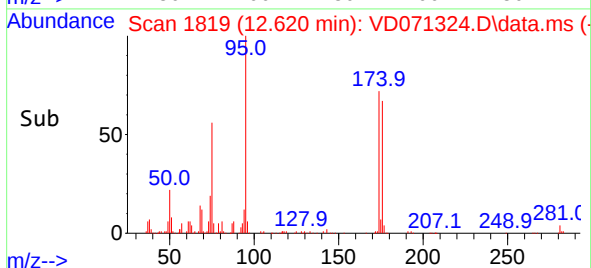
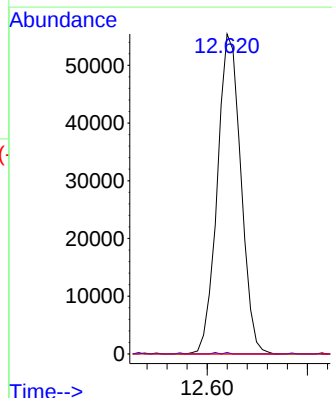
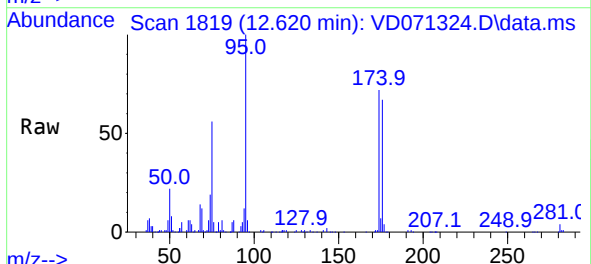
Instrument :
MSVOA_D
ClientSampleId :

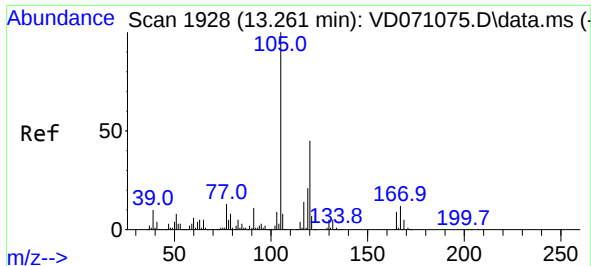
Tgt Ion: 75 Resp: 90246
Ion Ratio Lower Upper
75 100
77 1.8 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 125.429 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion: 75 Resp: 90246
Ion Ratio Lower Upper
75 100
53 0.2 62.6 94.0#
89 0.0 34.5 51.7#

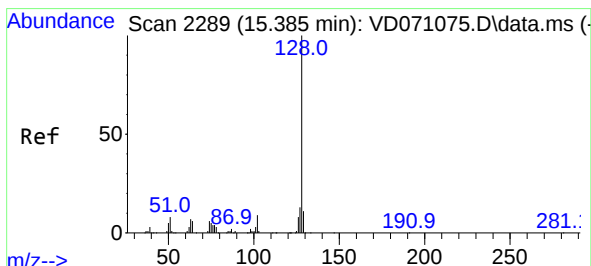
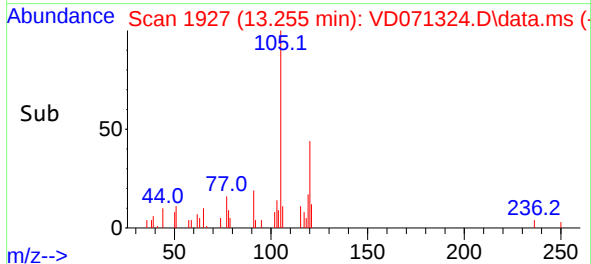
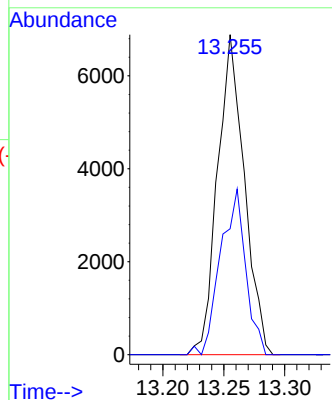
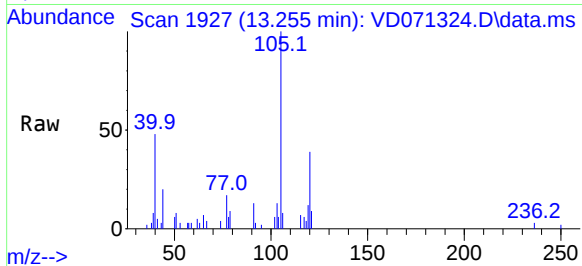




#84
1,2,4-Trimethylbenzene
Concen: 1.105 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:105 Resp: 10550
Ion Ratio Lower Upper
105 100
120 48.6 22.9 68.7



#95
Naphthalene
Concen: 1.920 ug/l
RT: 15.379 min Scan# 2288
Delta R.T. -0.006 min
Lab File: VD071324.D
Acq: 14 Dec 2021 16:52

Tgt Ion:128 Resp: 9182
Ion Ratio Lower Upper
128 100
127 16.9 10.7 16.1#
129 4.8 8.7 13.1#

