

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120721\
 Data File : VD071188.D
 Acq On : 07 Dec 2021 17:27
 Operator : VA/SY
 Sample : M4959-19
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 08 02:51:44 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)

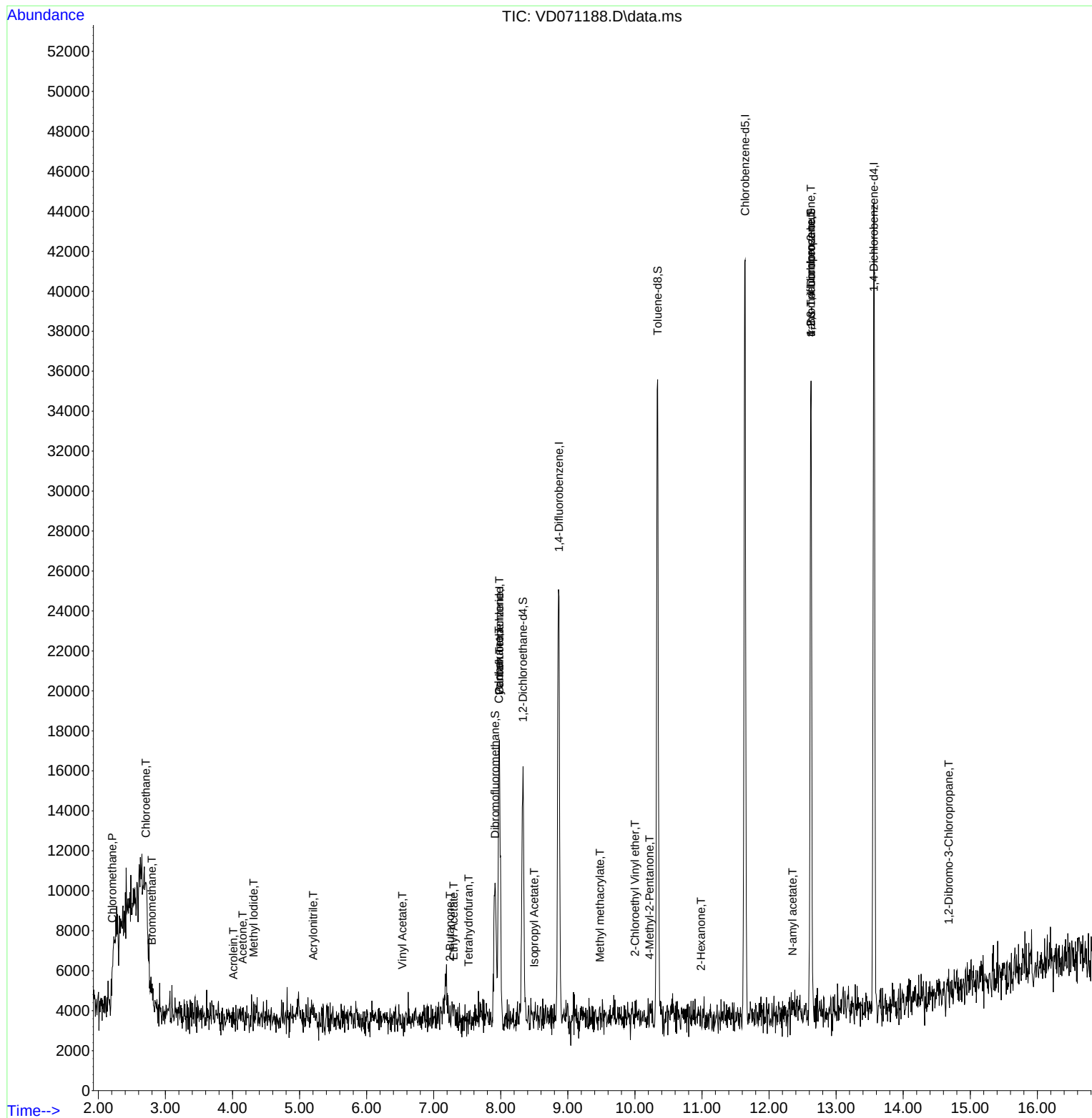
Internal Standards						
1) Pentafluorobenzene	7.979	168	10262	50.00	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.867	114	17391	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.643	117	19725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	10021	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	9198	76.39	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 152.78%			
35) Dibromofluoromethane	7.914	113	4985	45.01	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 90.02%			
50) Toluene-d8	10.338	98	22000	52.20	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 104.40%			
62) 4-Bromofluorobenzene	12.626	95	10435	71.43	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 142.86%			
Target Compounds						Qvalue
3) Chloromethane	2.209	50	169	1.46	ug/l	# 42
5) Bromomethane	2.797	94	675	7.25	ug/l	# 63
6) Chloroethane	2.709	64	113	1.27	ug/l	# 39
10) Methyl Iodide	4.314	142	82	5.18	ug/l	# 40
11) Tert butyl alcohol	5.220	59	66	Below Cal		# 71
13) Acrolein	4.014	56	66	8.02	ug/l	# 13
15) Acrylonitrile	5.203	53	56	2.43	ug/l	# 19
16) Acetone	4.150	43	113	33.89	ug/l	# 40
20) Methylene Chloride	4.967	84	164	Below Cal		# 40
23) Vinyl Acetate	6.532	43	138	27.85	ug/l	# 72
25) 2-Butanone	7.244	43	54	29.66	ug/l	# 45
29) Tetrahydrofuran	7.520	42	66	3.45	ug/l	# 34
31) Cyclohexane	7.973	56	263	1.28	ug/l	# 64
37) Ethyl Acetate	7.297	43	81	1.15	ug/l	# 66
38) Carbon Tetrachloride	7.979	117	817	5.10	ug/l	# 12
41) Methacrylonitrile	7.497	41	53	Below Cal		# 12
43) Isopropyl Acetate	8.497	43	55	5.54	ug/l	# 47
48) Methyl methacrylate	9.479	41	128	1.86	ug/l	# 15
51) 4-Methyl-2-Pentanone	10.220	43	117	31.95	ug/l	# 34
58) 2-Chloroethyl Vinyl ether	10.002	63	54	1.00	ug/l	# 49
59) 2-Hexanone	10.985	43	58	35.41	ug/l	# 52
74) N-amyl acetate	12.349	43	61	5.97	ug/l	# 40
76) 1,2,3-Trichloropropane	12.626	75	5279	55.29	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.626	75	5279	120.16	ug/l	# 18
92) 1,2-Dibromo-3-Chloropr...	14.679	75	71	3.65	ug/l	# 4

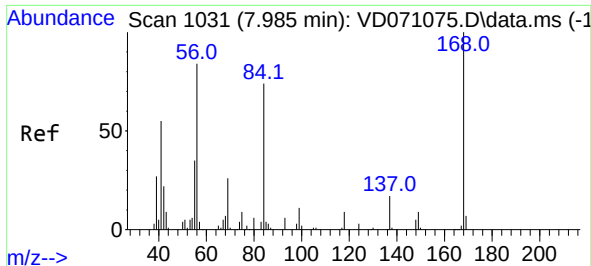
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

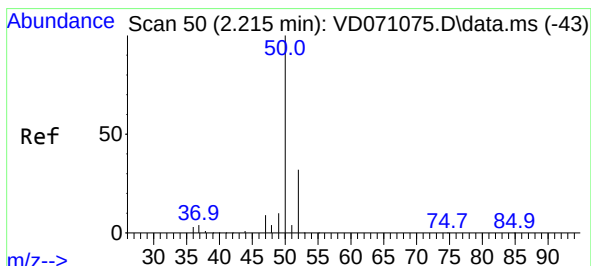
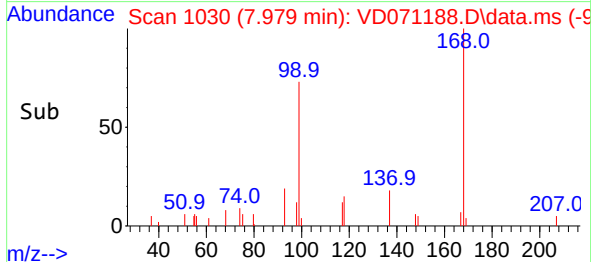
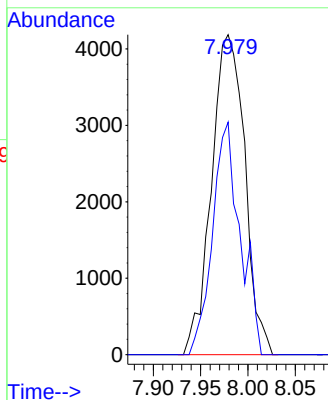
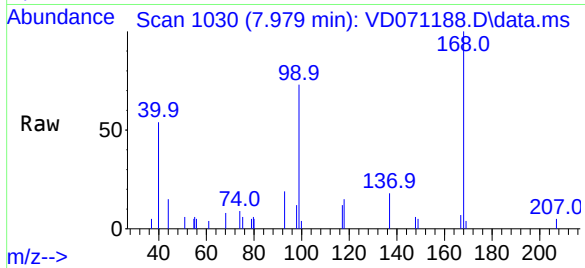




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

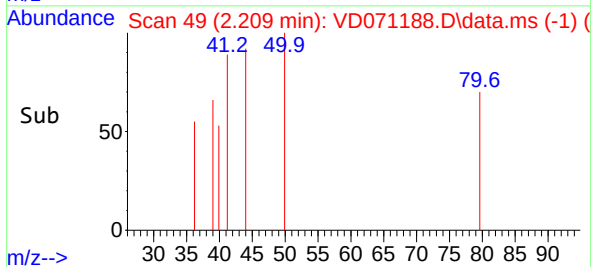
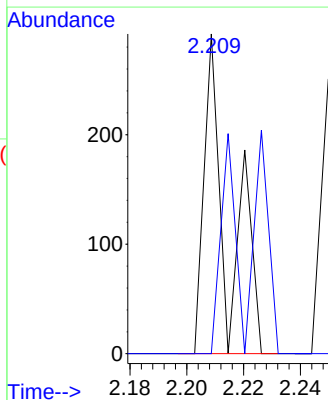
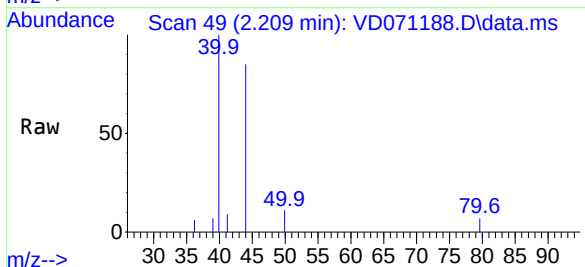
Instrument :
MSVOA_D
ClientSampleId :

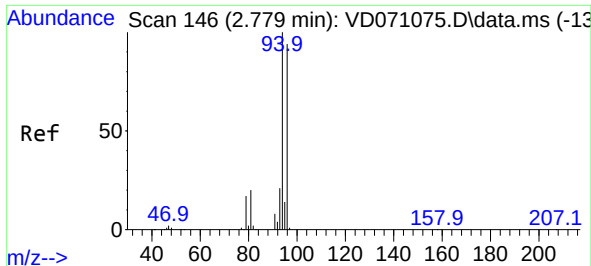
Tgt Ion:168 Resp: 10262
Ion Ratio Lower Upper
168 100
99 72.6 46.6 69.8#



#3
Chloromethane
Concen: 1.46 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Tgt Ion: 50 Resp: 169
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

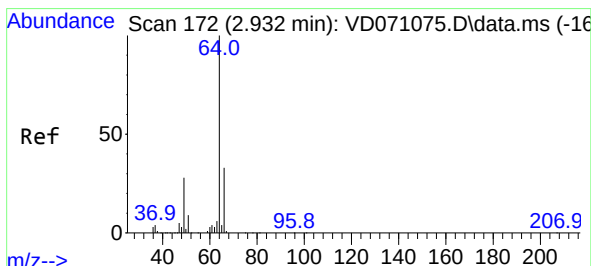
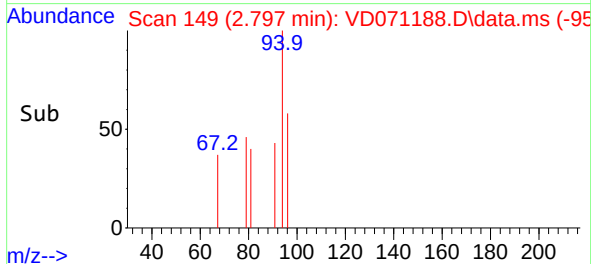
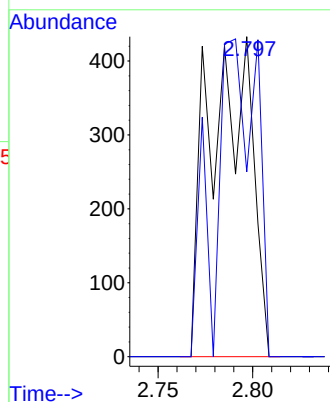
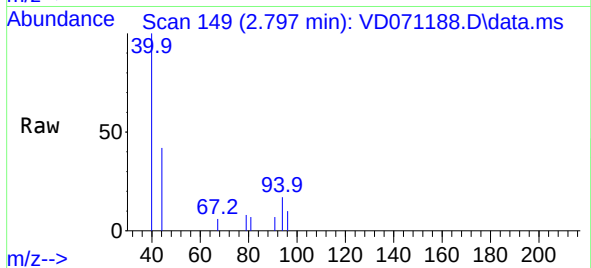




#5
Bromomethane
Concen: 7.25 ug/l
RT: 2.797 min Scan# 14
Delta R.T. 0.018 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

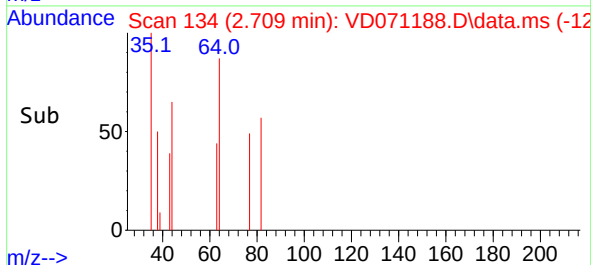
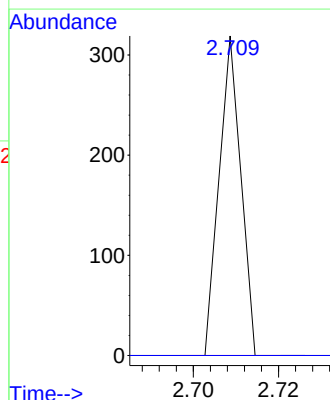
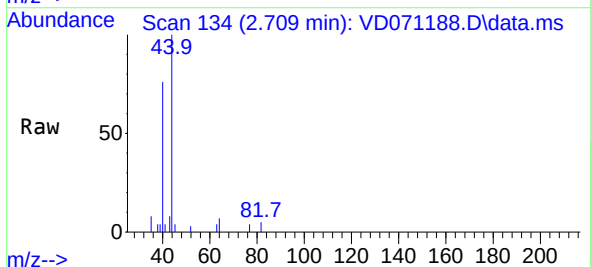
Instrument :
MSVOA_D
ClientSampleId :

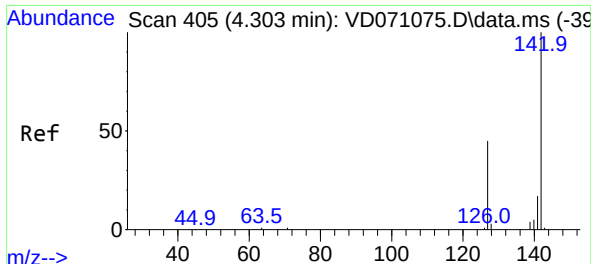
Tgt Ion: 94 Resp: 675
Ion Ratio Lower Upper
94 100
96 57.7 74.8 112.2#



#6
Chloroethane
Concen: 1.27 ug/l
RT: 2.709 min Scan# 134
Delta R.T. -0.223 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

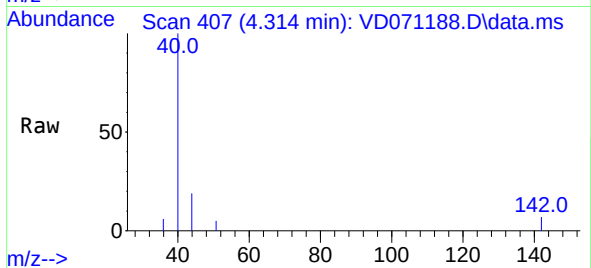
Tgt Ion: 64 Resp: 113
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



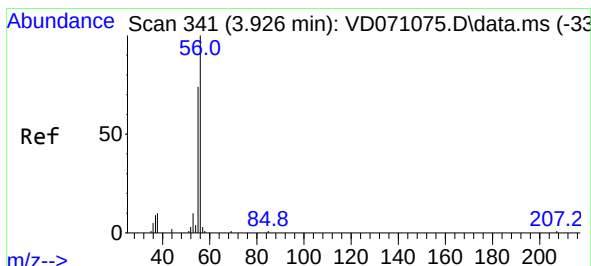
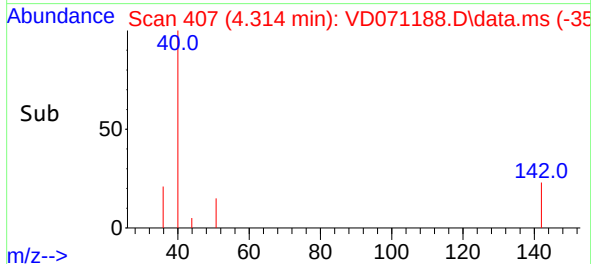
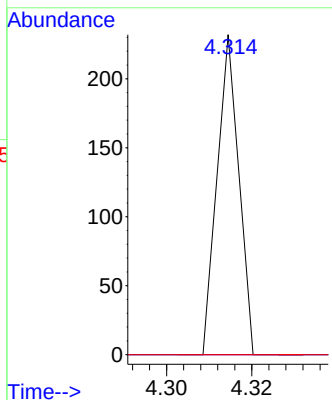


#10
Methyl Iodide
Concen: 5.18 ug/l
RT: 4.314 min Scan# 405
Delta R.T. 0.011 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Instrument :
MSVOA_D
ClientSampleId :

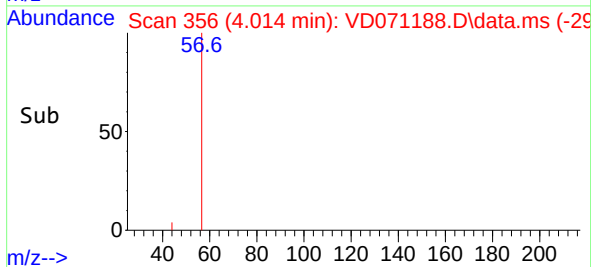
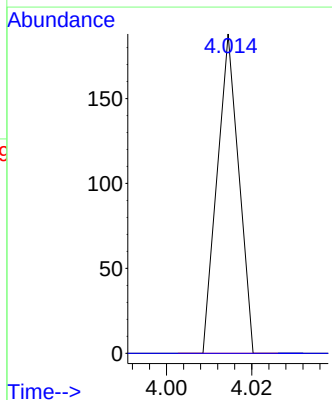
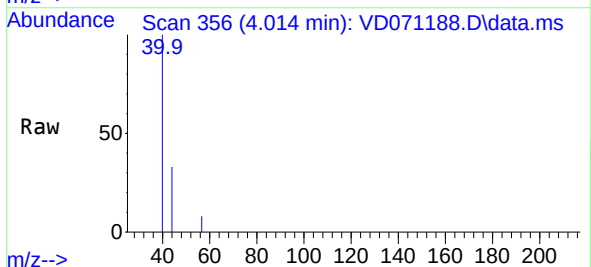


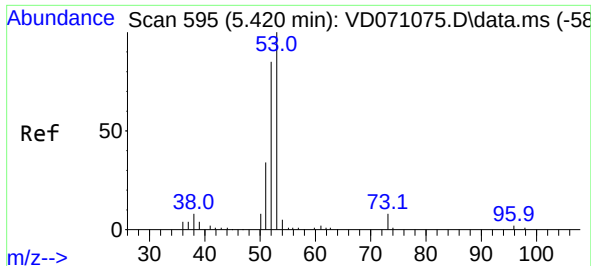
Tgt Ion:142 Resp: 82
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 8.02 ug/l
RT: 4.014 min Scan# 356
Delta R.T. 0.088 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

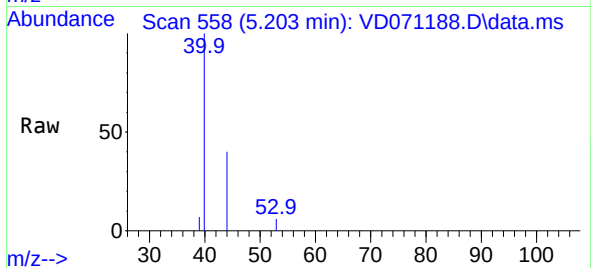
Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



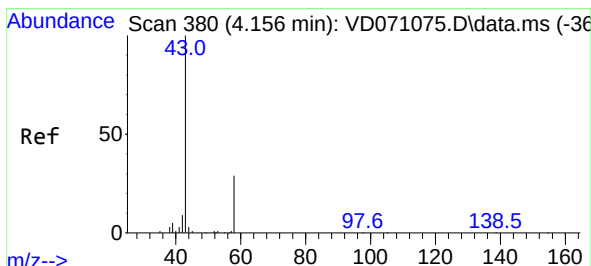
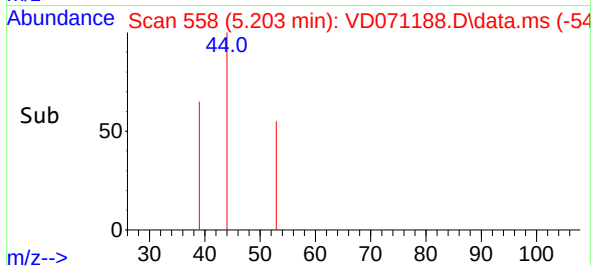
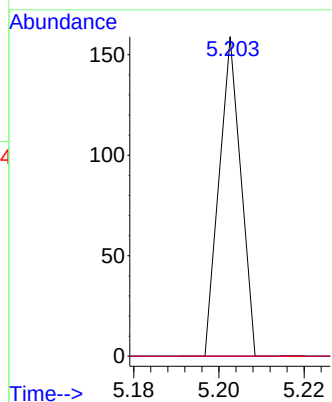


#15
Acrylonitrile
Concen: 2.43 ug/l
RT: 5.203 min Scan# 51
Delta R.T. -0.217 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Instrument :
MSVOA_D
ClientSampleId :

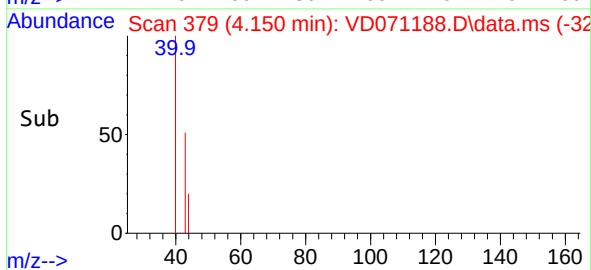
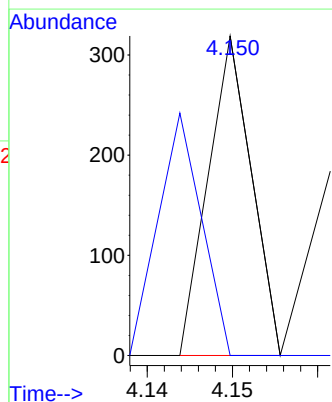
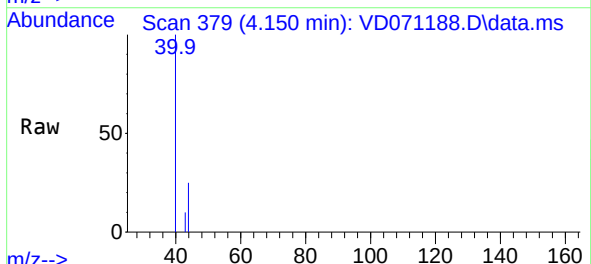


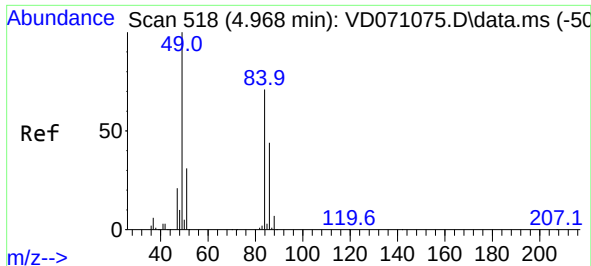
Tgt Ion: 53 Resp: 56
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#



#16
Acetone
Concen: 33.89 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Tgt Ion: 43 Resp: 113
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.967 min Scan# 51

Delta R.T. -0.001 min

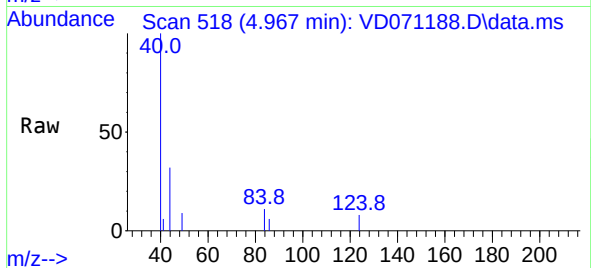
Lab File: VD071188.D

Acq: 07 Dec 2021 17:27

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 84 Resp: 164

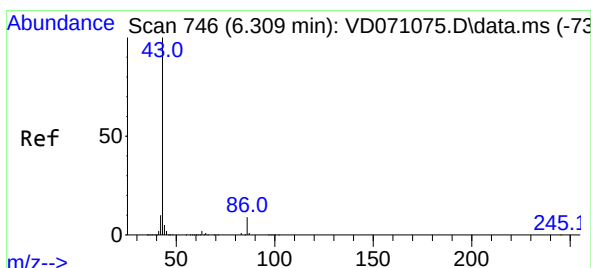
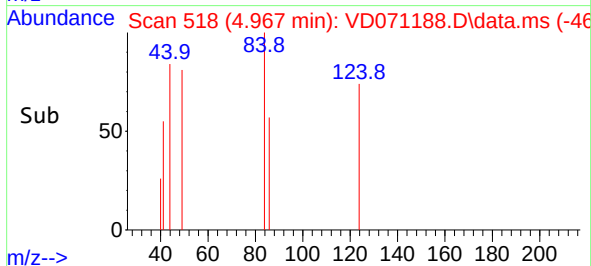
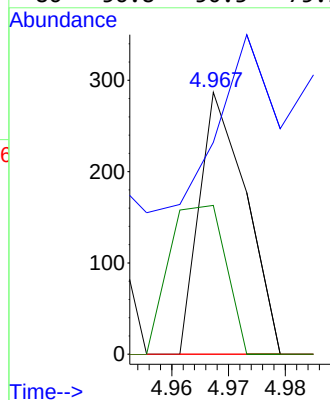
Ion Ratio Lower Upper

84 100

49 23.7 95.8 143.6#

51 0.0 30.9 46.3#

86 56.8 50.3 75.5



#23

Vinyl Acetate

Concen: 27.85 ug/l

RT: 6.532 min Scan# 784

Delta R.T. 0.223 min

Lab File: VD071188.D

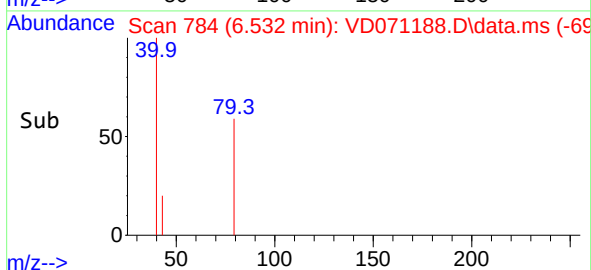
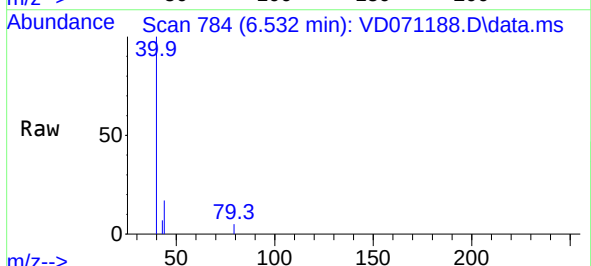
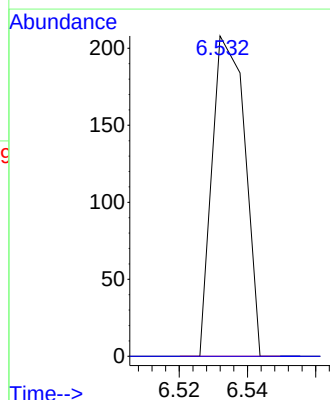
Acq: 07 Dec 2021 17:27

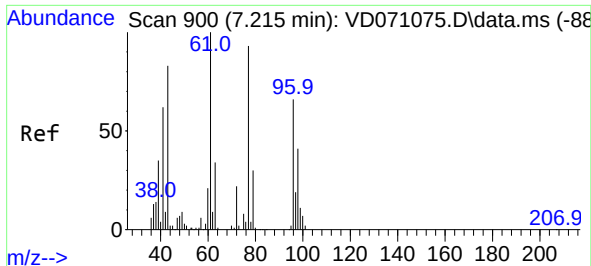
Tgt Ion: 43 Resp: 138

Ion Ratio Lower Upper

43 100

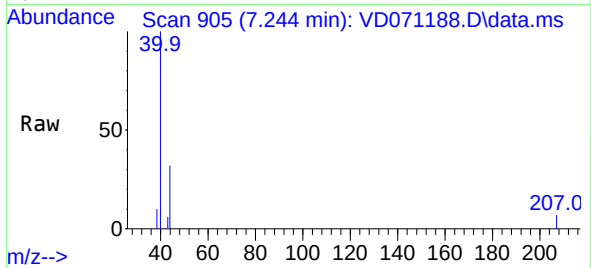
86 0.0 8.2 12.4#



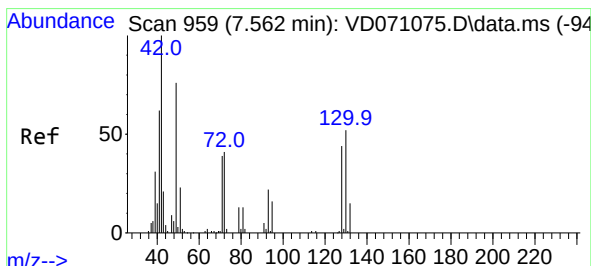
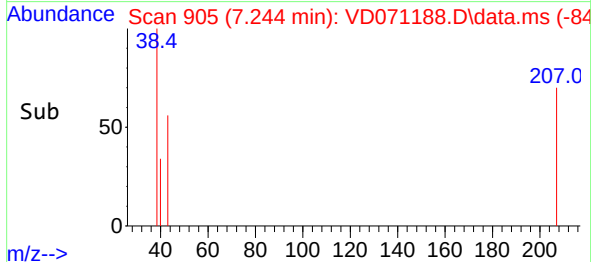
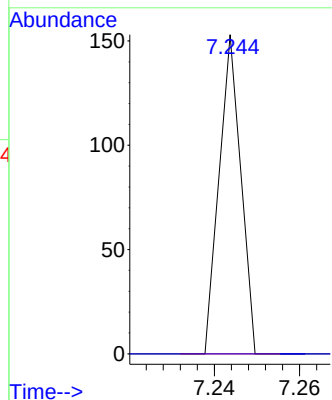


#25
2-Butanone
Concen: 29.66 ug/l
RT: 7.244 min Scan# 901
Delta R.T. 0.029 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

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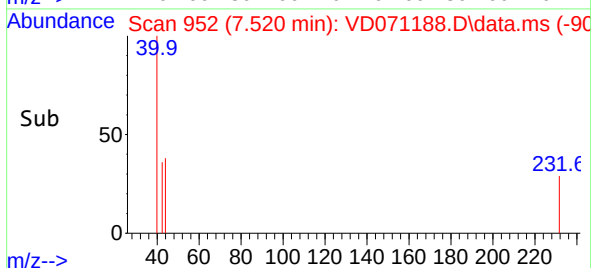
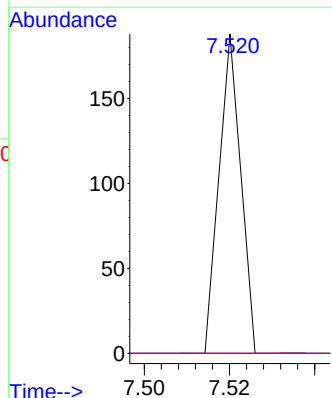
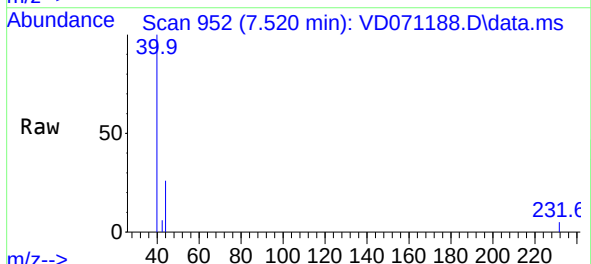


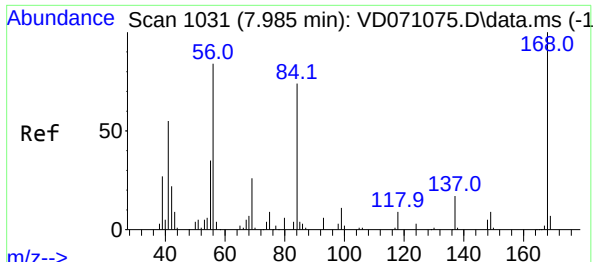
Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 3.45 ug/l
RT: 7.520 min Scan# 952
Delta R.T. -0.042 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Tgt Ion: 42 Resp: 66
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#





#31

Cyclohexane

Concen: 1.28 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

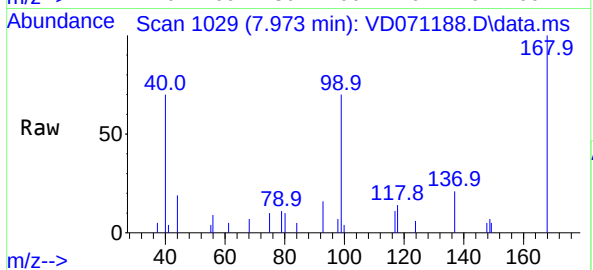
Lab File: VD071188.D

Acq: 07 Dec 2021 17:27

Instrument :

MSVOA_D

ClientSampleId :



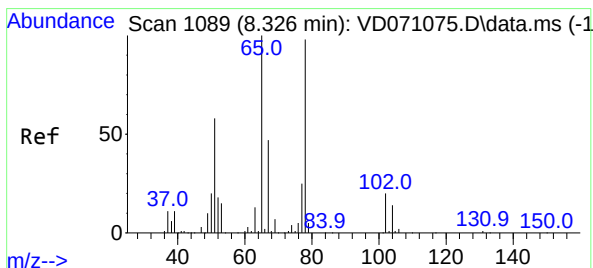
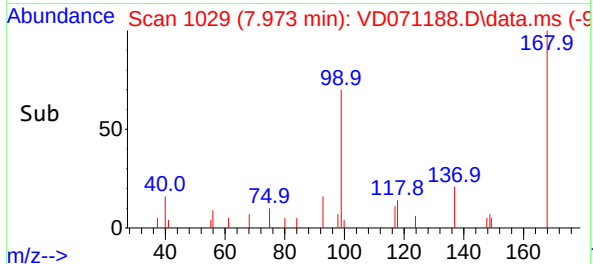
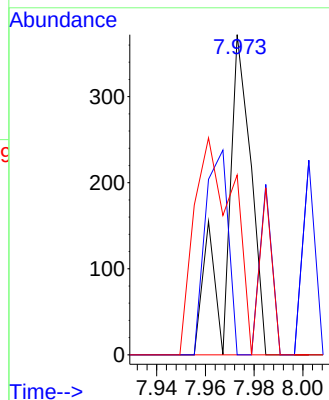
Tgt Ion: 56 Resp: 263

Ion Ratio Lower Upper

56 100

69 0.0 25.9 38.9#

84 56.2 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 76.39 ug/l

RT: 8.332 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VD071188.D

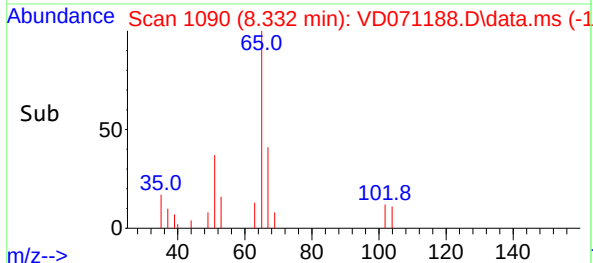
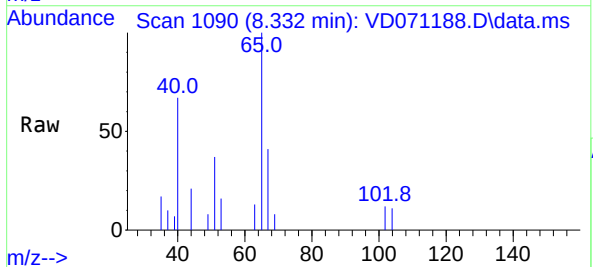
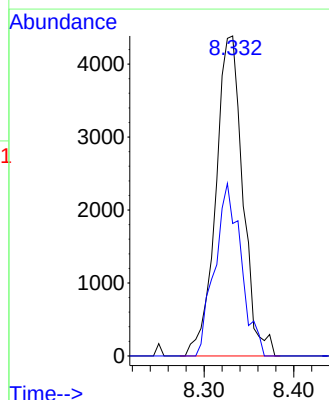
Acq: 07 Dec 2021 17:27

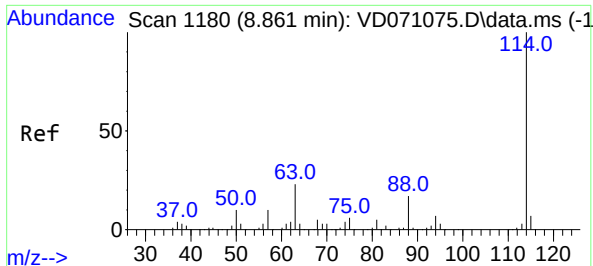
Tgt Ion: 65 Resp: 9198

Ion Ratio Lower Upper

65 100

67 52.2 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.867 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VD071188.D

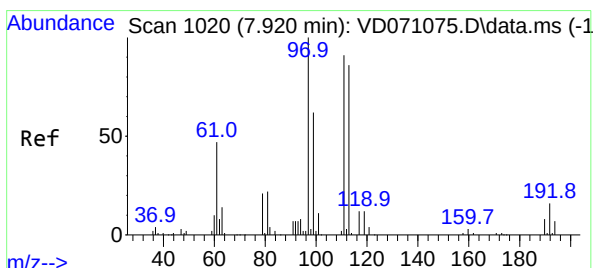
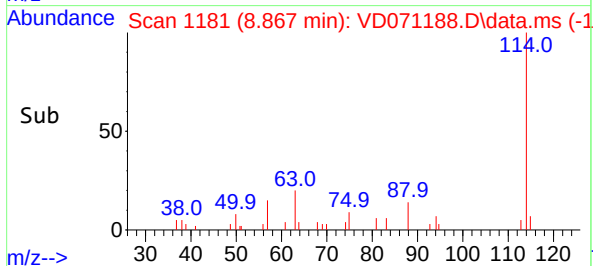
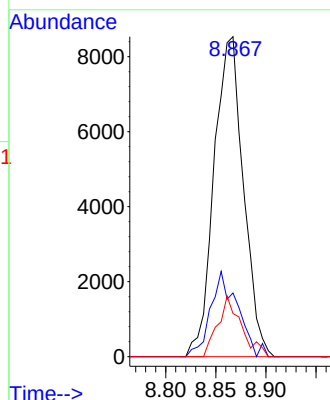
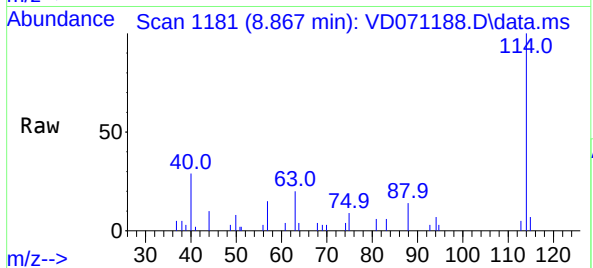
Acq: 07 Dec 2021 17:27

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:114	Resp:	17391
Ion	Ratio	Lower Upper
114	100	
63	19.9	0.0 41.8
88	13.5	0.0 32.8



#35

Dibromofluoromethane

Concen: 45.01 ug/l

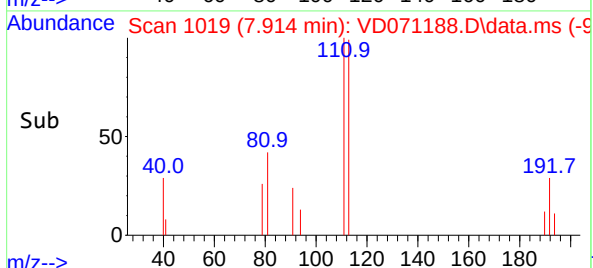
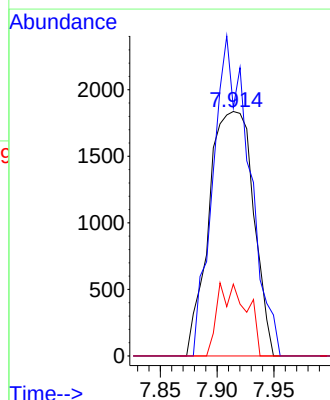
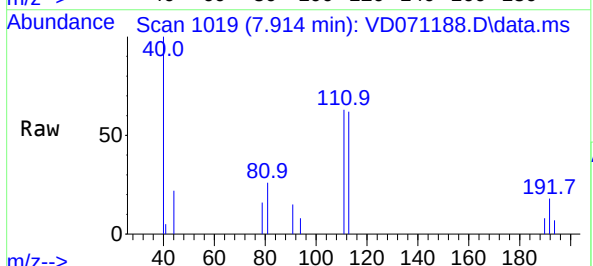
RT: 7.914 min Scan# 1019

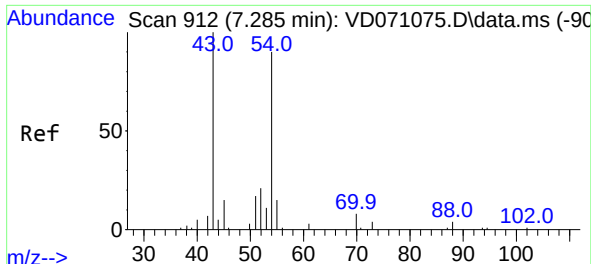
Delta R.T. -0.006 min

Lab File: VD071188.D

Acq: 07 Dec 2021 17:27

Tgt Ion:113	Resp:	4985
Ion	Ratio	Lower Upper
113	100	
111	107.5	82.0 123.0
192	19.6	15.2 22.8





#37

Ethyl Acetate

Concen: 1.15 ug/l

RT: 7.297 min Scan# 91

Delta R.T. 0.012 min

Lab File: VD071188.D

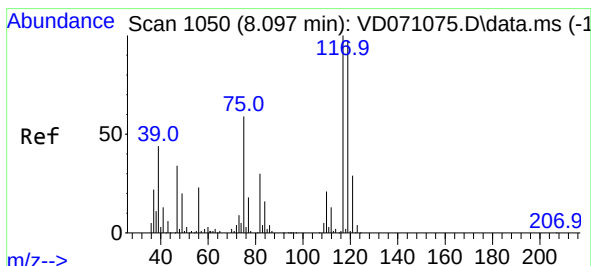
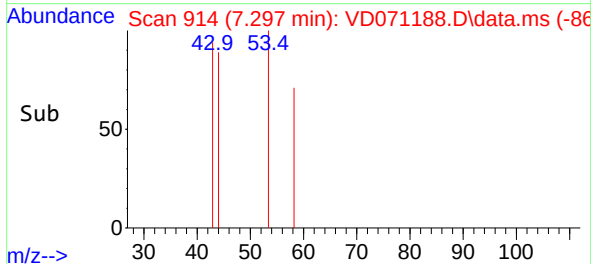
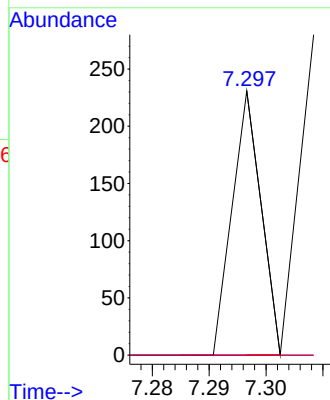
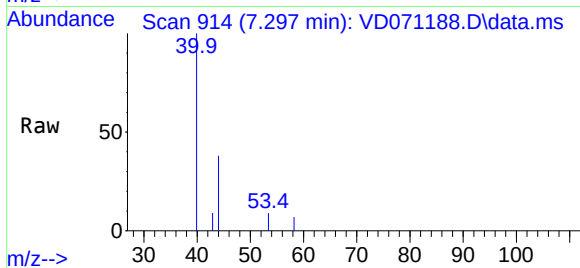
Acq: 07 Dec 2021 17:27

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43	Resp: 81
Ion Ratio	Lower Upper
43	100
61	0.0 13.0 19.6#
70	0.0 8.7 13.1#



#38

Carbon Tetrachloride

Concen: 5.10 ug/l

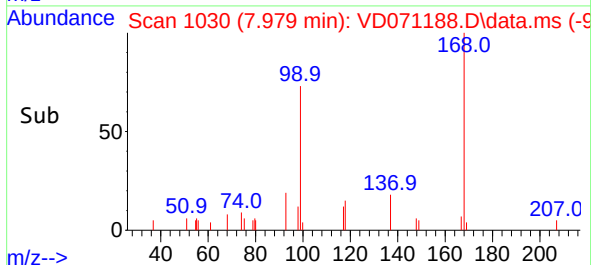
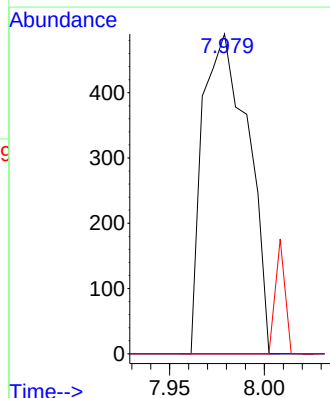
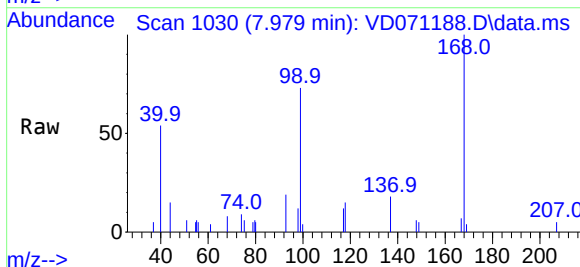
RT: 7.979 min Scan# 1030

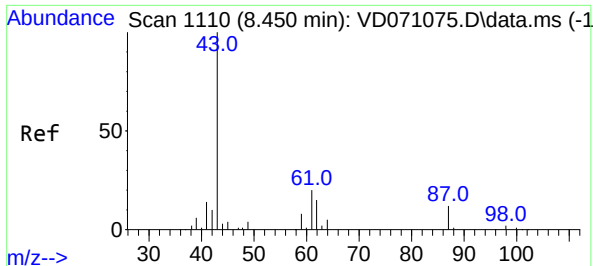
Delta R.T. -0.118 min

Lab File: VD071188.D

Acq: 07 Dec 2021 17:27

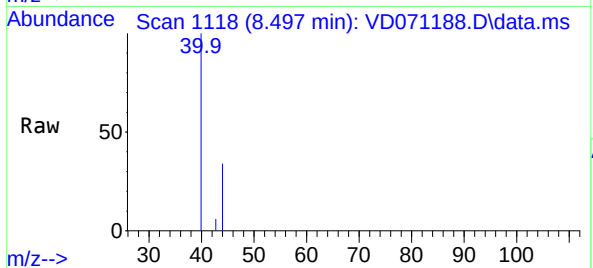
Tgt Ion: 117	Resp: 817
Ion Ratio	Lower Upper
117	100
119	0.0 75.8 113.6#
121	0.0 23.6 35.4#



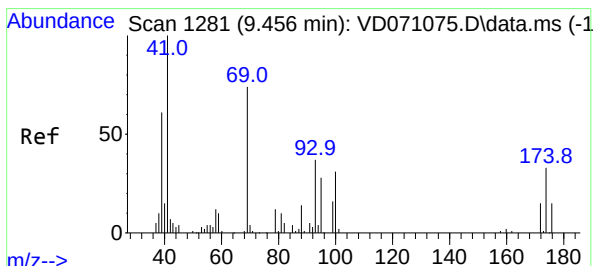
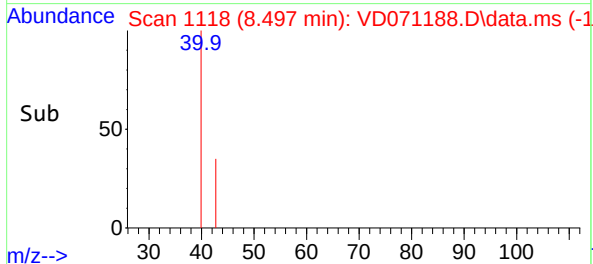
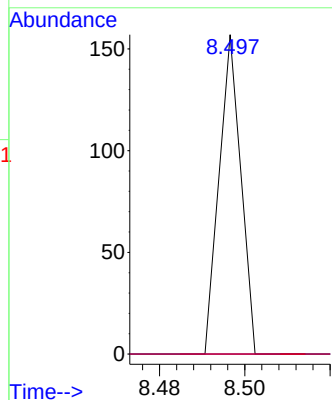


#43
Isopropyl Acetate
Concen: 5.54 ug/l
RT: 8.497 min Scan# 1118
Delta R.T. 0.047 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Instrument :
MSVOA_D
ClientSampleId :

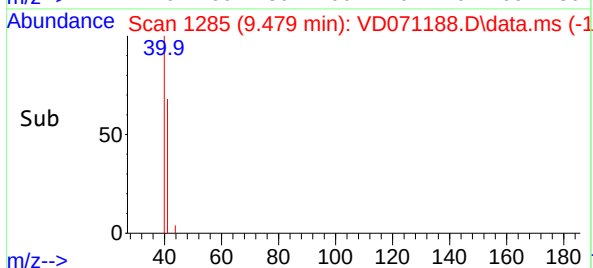
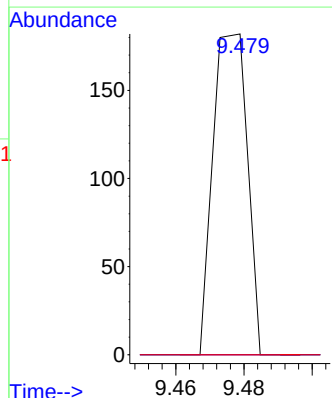
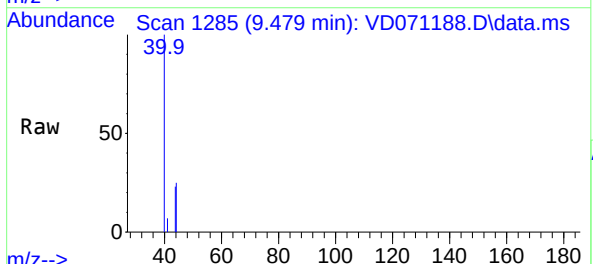


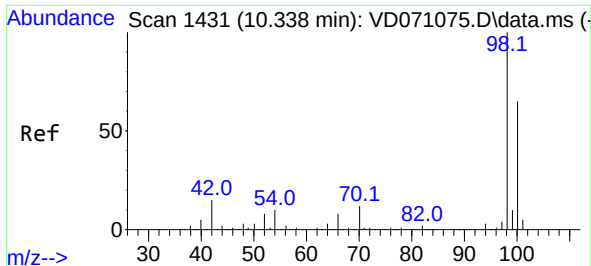
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#48
Methyl methacrylate
Concen: 1.86 ug/l
RT: 9.479 min Scan# 1285
Delta R.T. 0.023 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Tgt Ion: 41 Resp: 128
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 0.0 35.6 53.4#

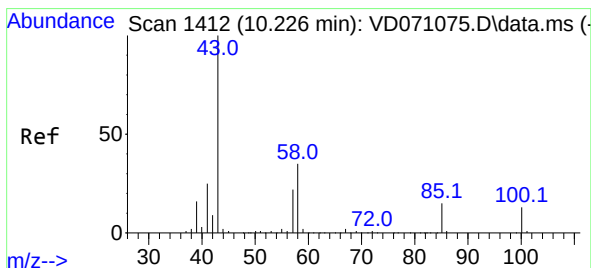
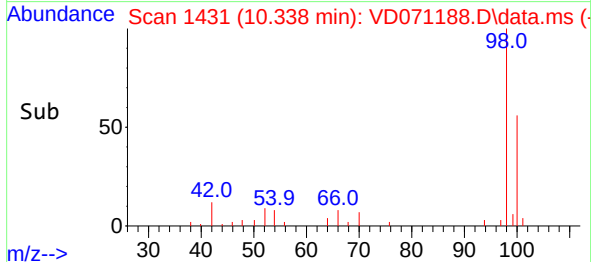
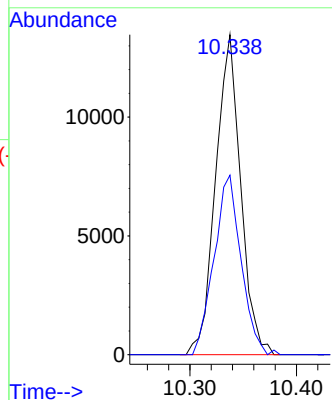
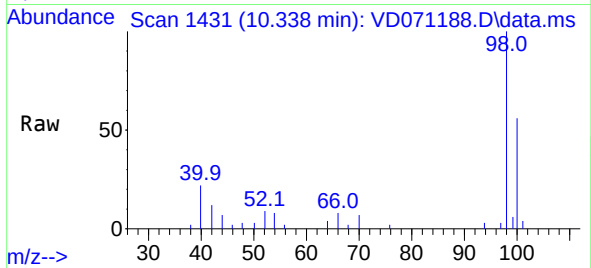




#50
Toluene-d8
Concen: 52.20 ug/l
RT: 10.338 min Scan# 1411
Delta R.T. -0.000 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

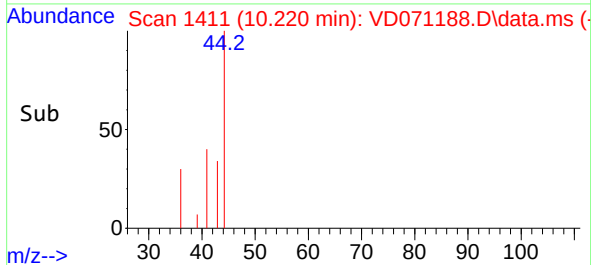
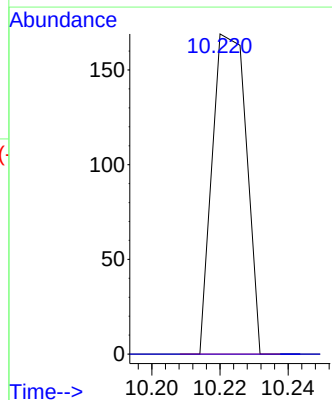
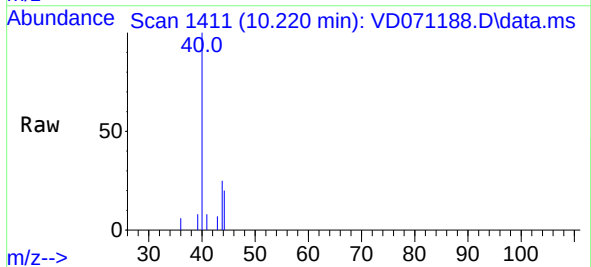
Instrument :
MSVOA_D
ClientSampleId :

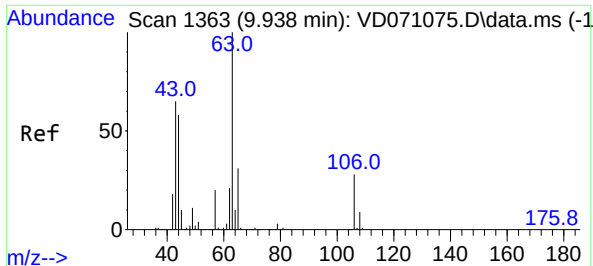
Tgt Ion: 98 Resp: 22000
Ion Ratio Lower Upper
98 100
100 60.6 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.95 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Tgt Ion: 43 Resp: 117
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

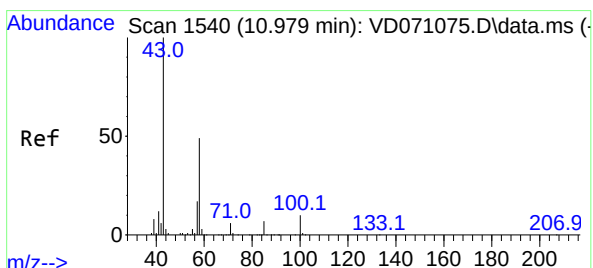
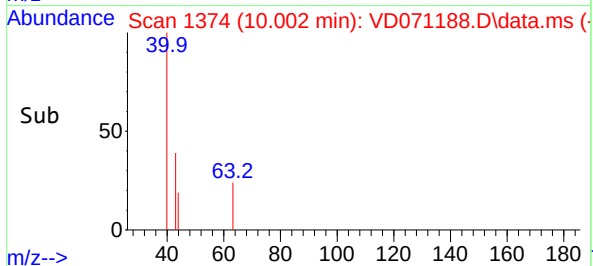
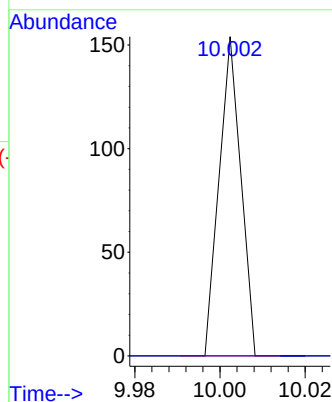
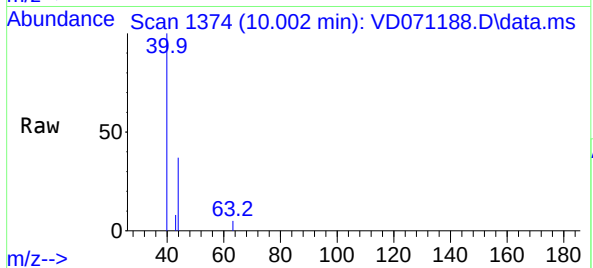




#58
2-Chloroethyl Vinyl ether
Concen: 1.00 ug/l
RT: 10.002 min Scan# 11
Delta R.T. 0.064 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

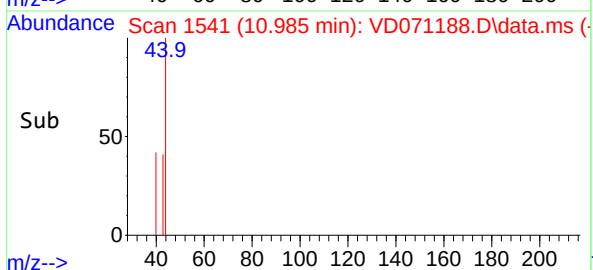
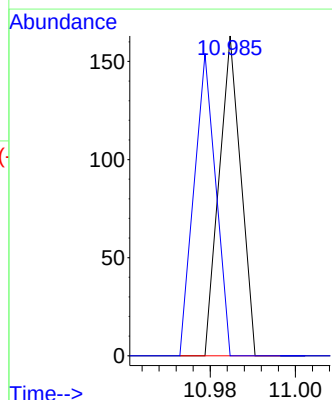
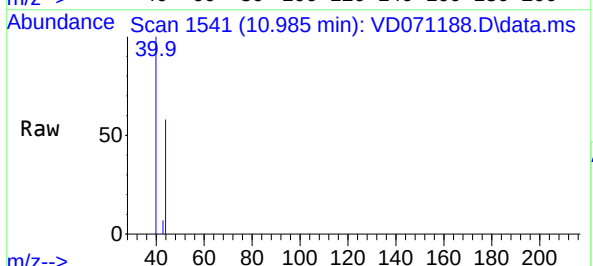
Instrument :
MSVOA_D
ClientSampleId :

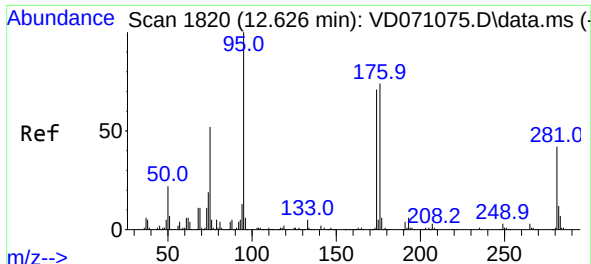
Tgt Ion: 63 Resp: 54
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.4#



#59
2-Hexanone
Concen: 35.41 ug/l
RT: 10.985 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
58 93.1 28.7 86.1#

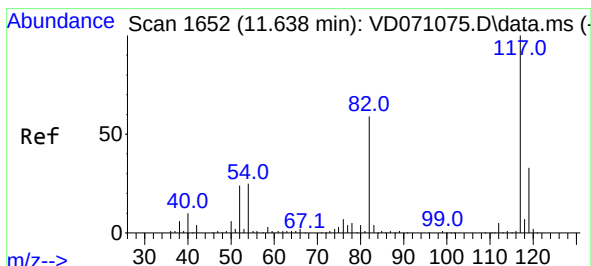
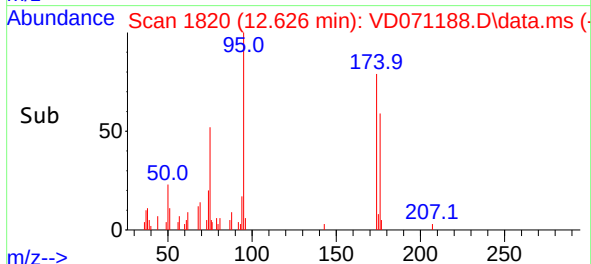
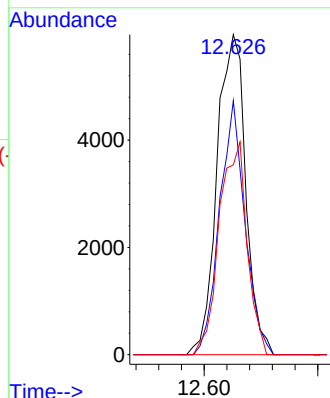
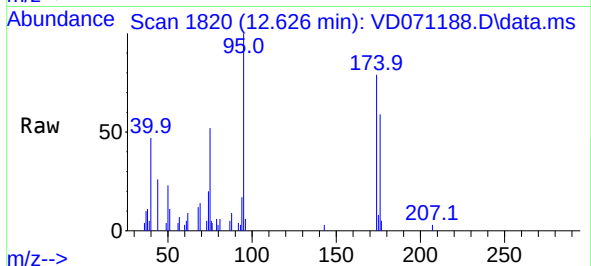




#62
4-Bromofluorobenzene
Concen: 71.43 ug/l
RT: 12.626 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

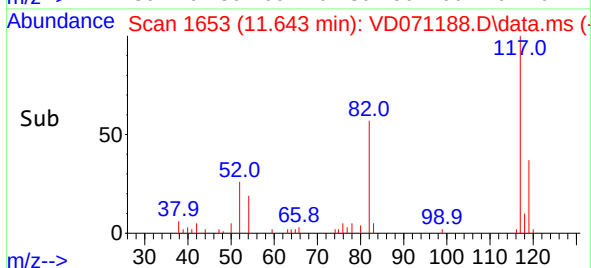
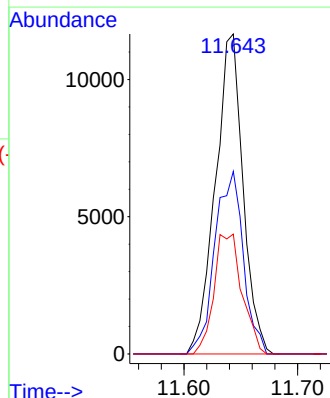
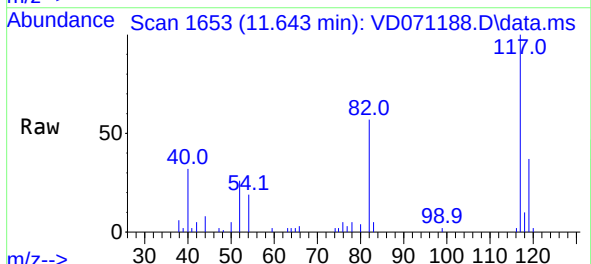
Instrument :
MSVOA_D
ClientSampleId :

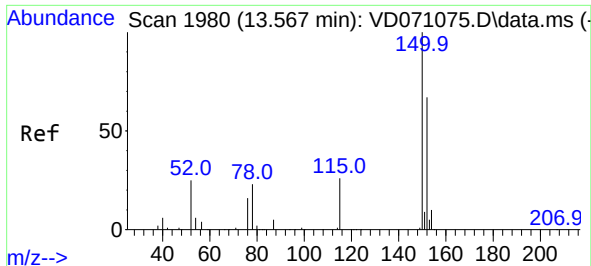
Tgt Ion: 95 Resp: 10435
Ion Ratio Lower Upper
95 100
174 70.7 0.0 159.4
176 64.5 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.643 min Scan# 1653
Delta R.T. 0.005 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

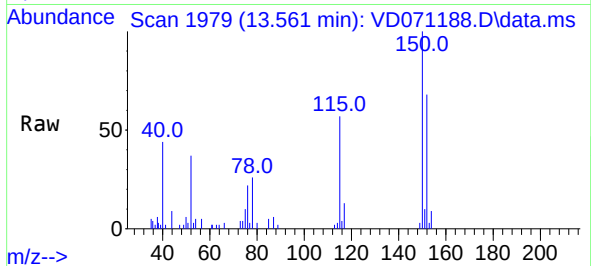
Tgt Ion: 117 Resp: 19725
Ion Ratio Lower Upper
117 100
82 57.0 44.7 67.1
119 37.5 26.2 39.4



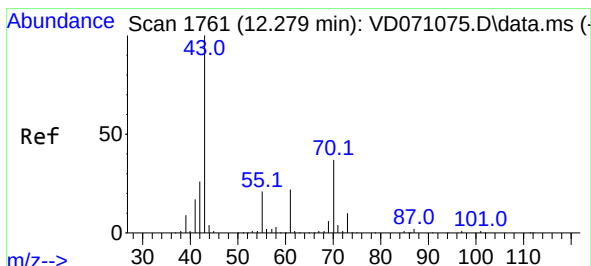
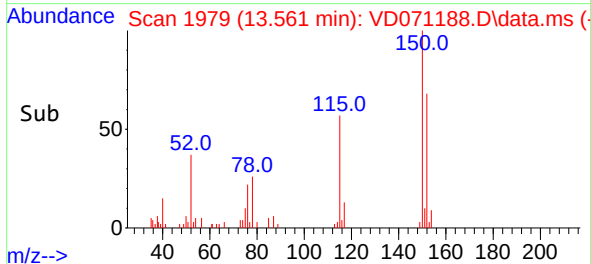
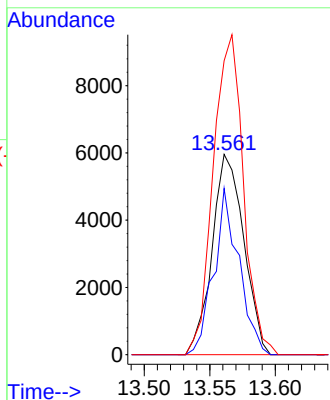


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Instrument :
MSVOA_D
ClientSampleId :

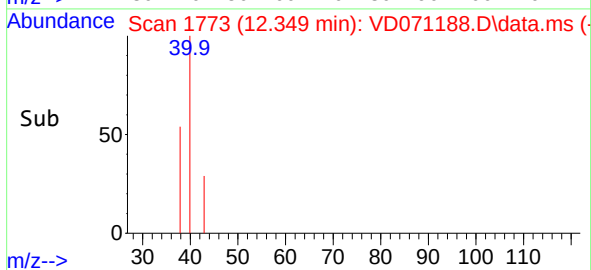
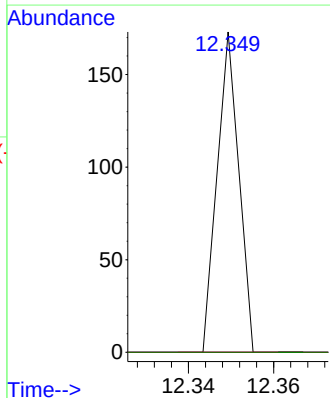
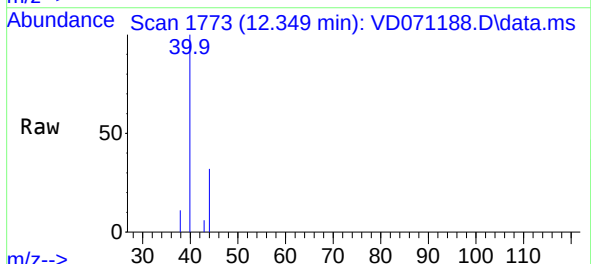


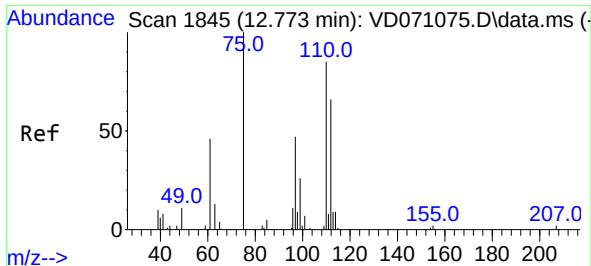
Tgt Ion:152 Resp: 10021
Ion Ratio Lower Upper
152 100
115 65.7 29.8 89.3
150 151.8 0.0 349.2



#74
N-ethyl acetate
Concen: 5.97 ug/l
RT: 12.349 min Scan# 1773
Delta R.T. 0.070 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Tgt Ion: 43 Resp: 61
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#

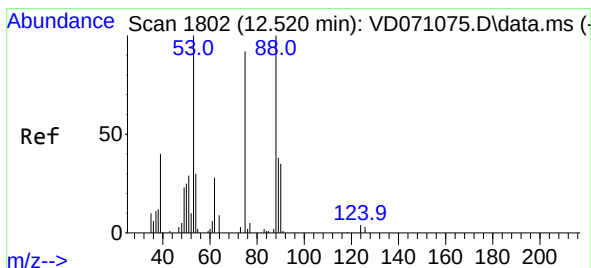
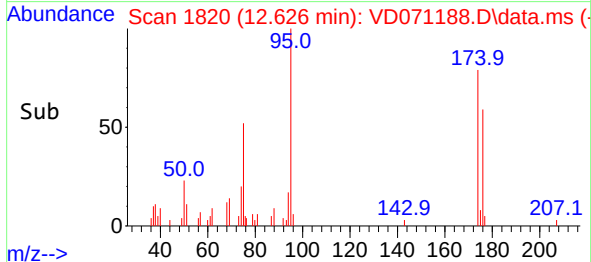
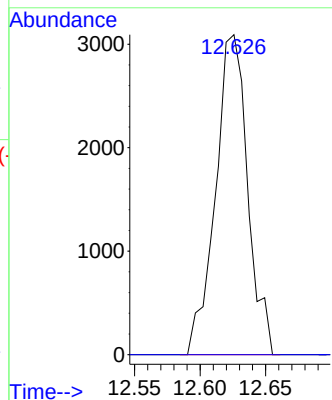
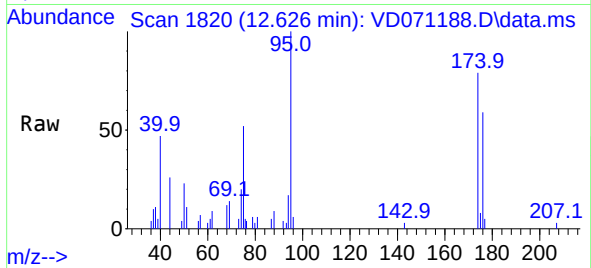




#76
1,2,3-Trichloropropane
Concen: 55.29 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

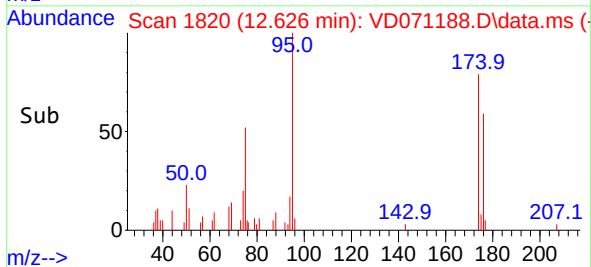
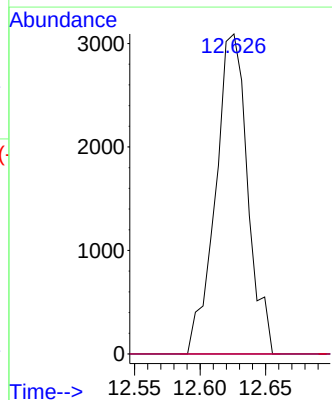
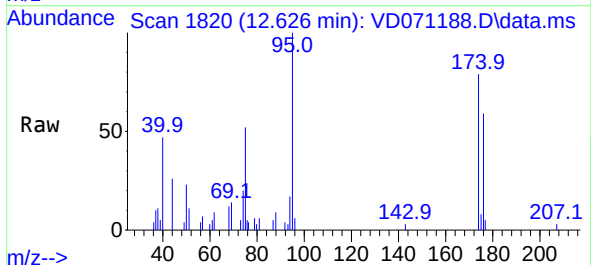
Instrument :
MSVOA_D
ClientSampleId :

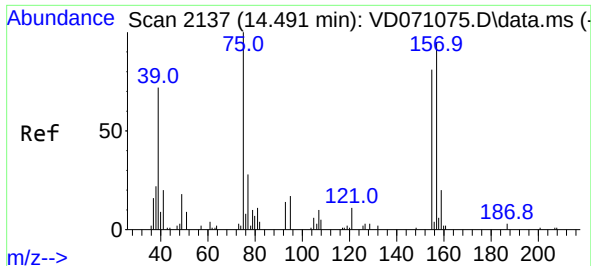
Tgt Ion: 75 Resp: 5279
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 120.16 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

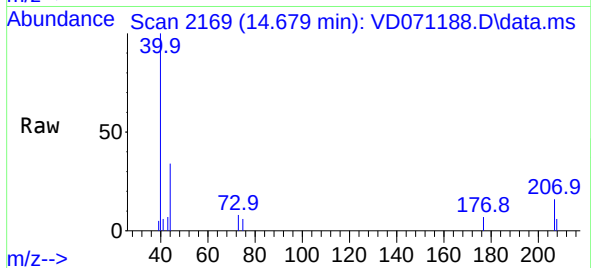
Tgt Ion: 75 Resp: 5279
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#





#92
1,2-Dibromo-3-Chloropropane
Concen: 3.65 ug/l
RT: 14.679 min Scan# 21
Delta R.T. 0.188 min
Lab File: VD071188.D
Acq: 07 Dec 2021 17:27

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#

