

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD011222\
 Data File : VD071684.D
 Acq On : 12 Jan 2022 14:13
 Operator : VA/SY
 Sample : N1097-04
 Misc : 5.42G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-1D

Quant Time: Jan 13 05:28:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D010722S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 07 15:39:14 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

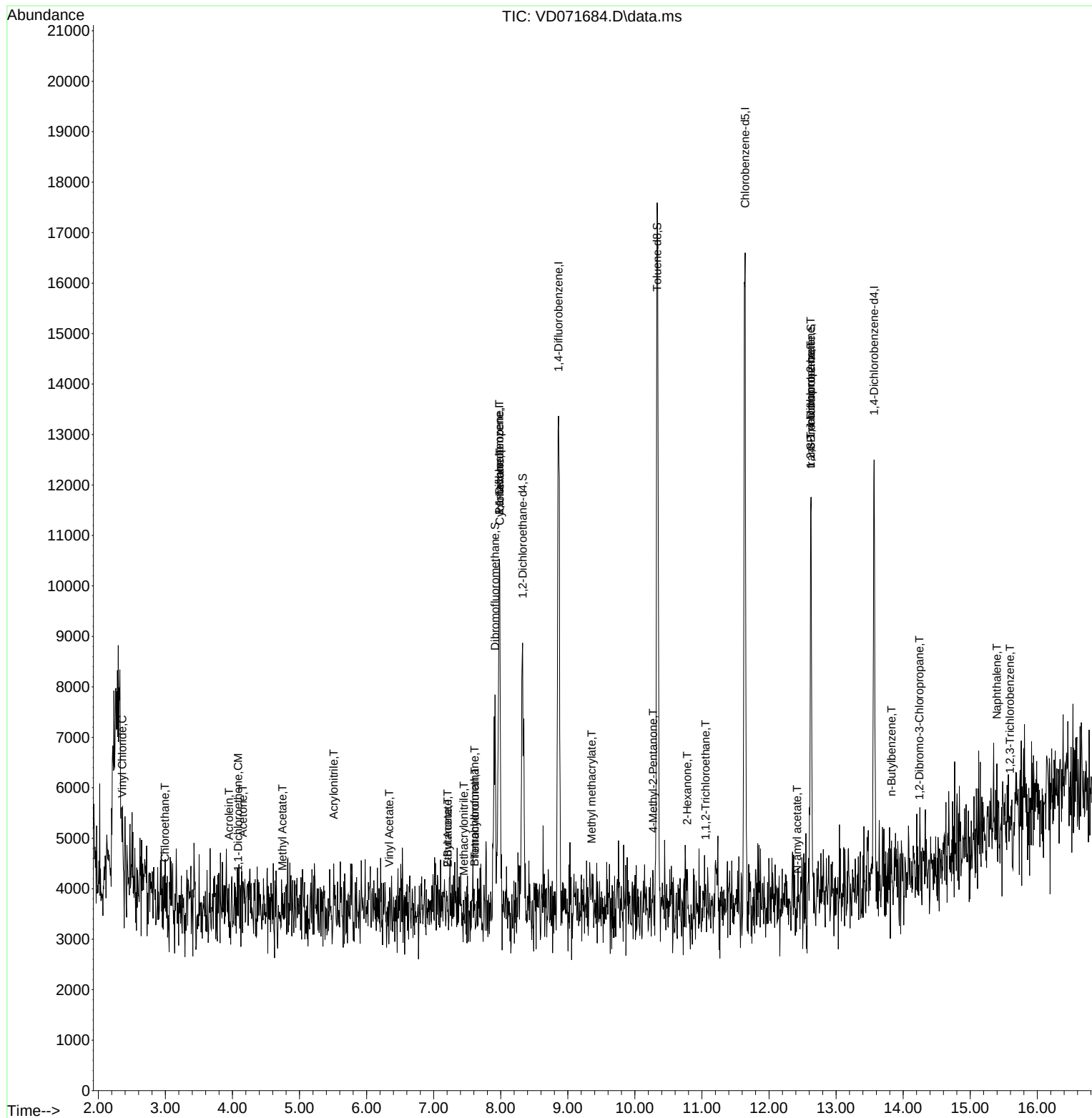
Internal Standards						
1) Pentafluorobenzene	7.979	168	5372	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.861	114	8898	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	6965	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	2576	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	4371	63.236	ug/l	0.00
Spiked Amount 50.000	Range	50 - 163	Recovery	=	126.480%	
35) Dibromofluoromethane	7.914	113	2844	48.363	ug/l	0.00
Spiked Amount 50.000	Range	54 - 147	Recovery	=	96.720%	
50) Toluene-d8	10.332	98	10438	47.418	ug/l	0.00
Spiked Amount 50.000	Range	49 - 140	Recovery	=	94.840%	
62) 4-Bromofluorobenzene	12.626	95	2262	29.162	ug/l	0.00
Spiked Amount 50.000	Range	25 - 144	Recovery	=	58.320%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	2.356	62	137	2.051	ug/l	# 46
6) Chloroethane	2.991	64	186	3.908	ug/l	# 44
12) 1,1-Dichloroethene	4.085	96	78	1.624	ug/l	# 1
13) Acrolein	3.950	56	78	11.561	ug/l	# 14
15) Acrylonitrile	5.509	53	59	4.483	ug/l	# 17
16) Acetone	4.156	43	192	12.031	ug/l	# 49
18) Methyl Acetate	4.744	43	69	1.093	ug/l	# 56
23) Vinyl Acetate	6.338	43	210	2.195	ug/l	# 76
25) 2-Butanone	7.209	43	61	3.235	ug/l	# 56
28) Bromochloromethane	7.609	49	64	1.122	ug/l	# 22
29) Tetrahydrofuran	7.614	42	67	6.177	ug/l	# 39
31) Cyclohexane	7.985	56	148	1.858	ug/l	# 68
36) 1,1-Dichloropropene	7.979	75	471	5.615	ug/l	# 43
37) Ethyl Acetate	7.209	43	61	1.567	ug/l	# 69
41) Methacrylonitrile	7.450	41	73	4.103	ug/l	# 48
48) Methyl methacrylate	9.356	41	118	3.186	ug/l	# 13
51) 4-Methyl-2-Pentanone	10.273	43	116	2.997	ug/l	# 40
55) 1,1,2-Trichloroethane	11.055	97	128	3.053	ug/l	# 15
59) 2-Hexanone	10.779	43	65	2.404	ug/l	# 29
74) N-amyl acetate	12.420	43	65	1.431	ug/l	# 46
76) 1,2,3-Trichloropropane	12.620	75	1999	80.309	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.620	75	1999	223.892	ug/l	# 3
89) n-Butylbenzene	13.826	91	218	1.310	ug/l	# 33
92) 1,2-Dibromo-3-Chloropr...	14.244	75	60	11.380	ug/l	# 9
95) Naphthalene	15.396	128	219	3.035	ug/l	# 68
96) 1,2,3-Trichlorobenzene	15.591	180	144	4.146	ug/l	# 13

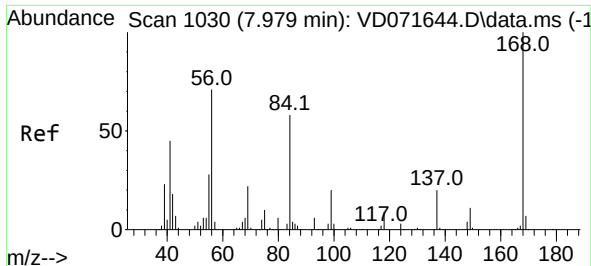
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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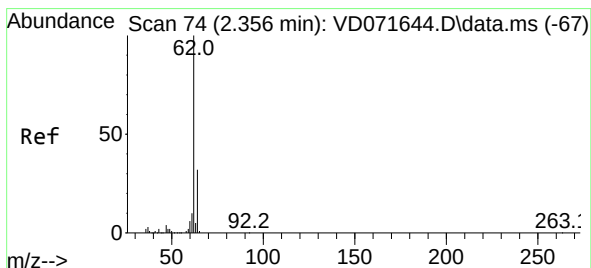
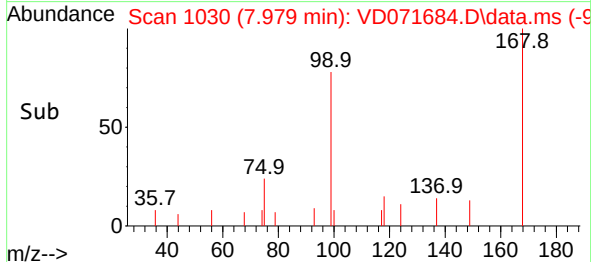
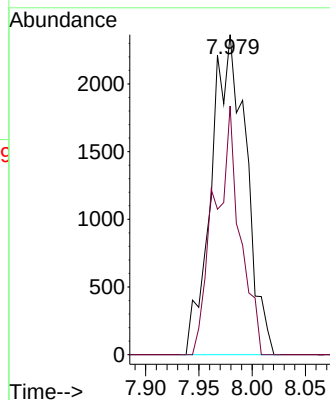
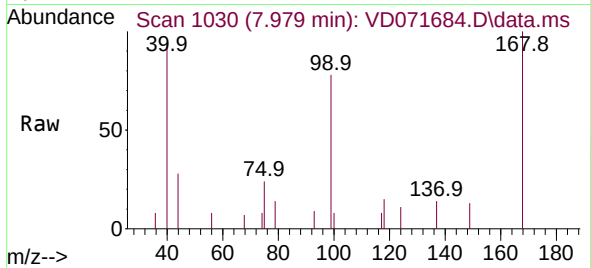




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

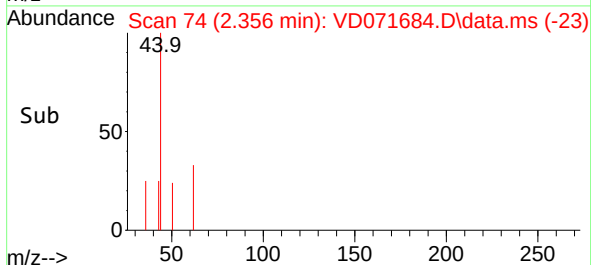
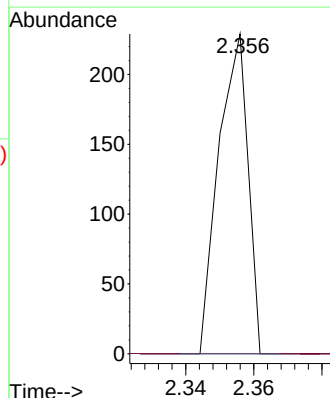
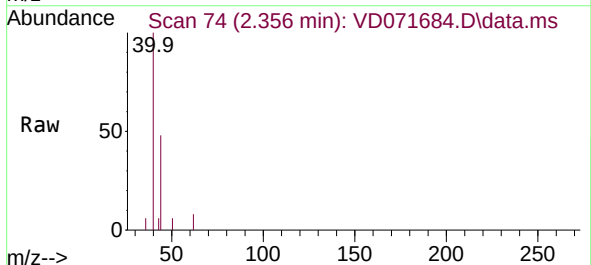
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

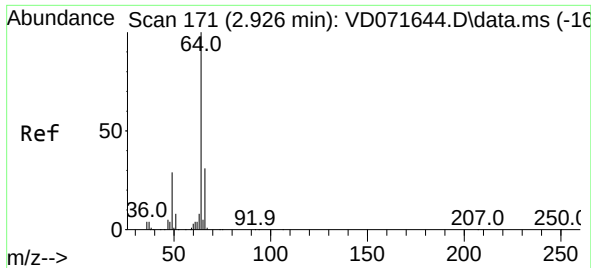
Tgt Ion:168 Resp: 5372
Ion Ratio Lower Upper
168 100
99 77.7 51.8 77.6#



#4
Vinyl Chloride
Concen: 2.051 ug/l
RT: 2.356 min Scan# 74
Delta R.T. -0.000 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 62 Resp: 137
Ion Ratio Lower Upper
62 100
64 0.0 23.2 34.8#

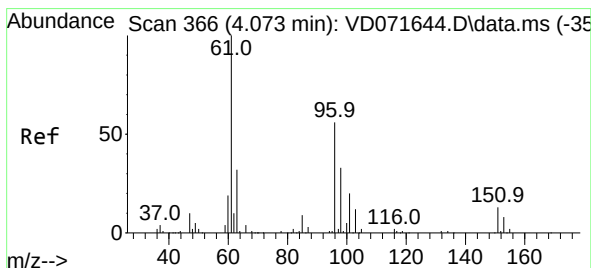
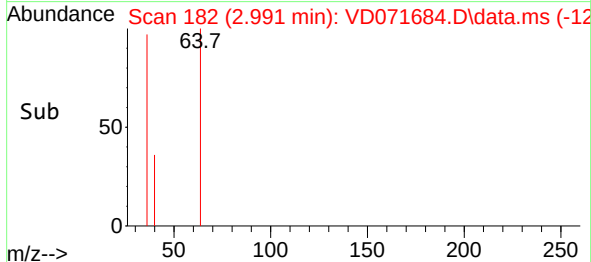
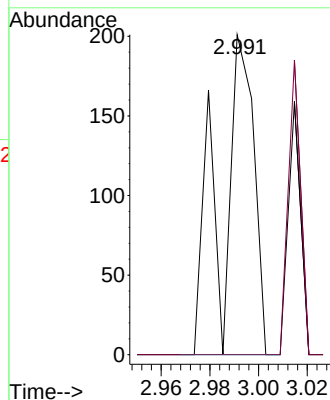
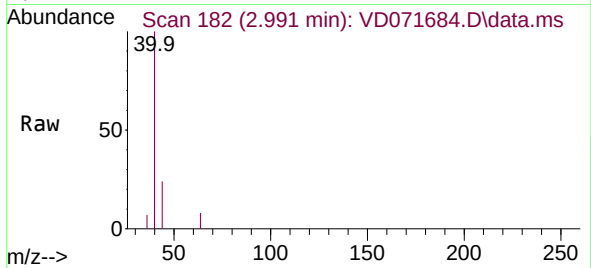




#6
Chloroethane
Concen: 3.908 ug/l
RT: 2.991 min Scan# 11
Delta R.T. 0.065 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

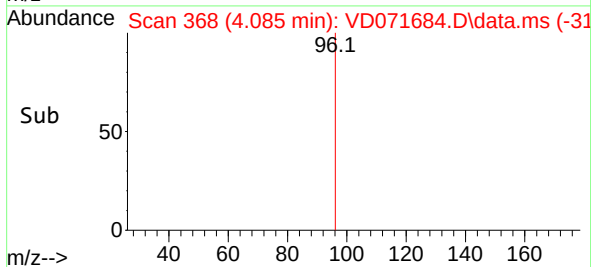
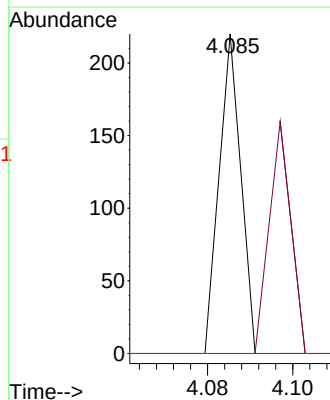
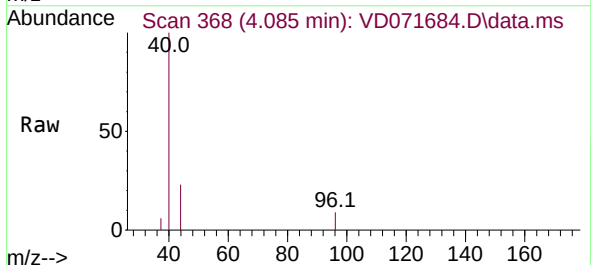
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

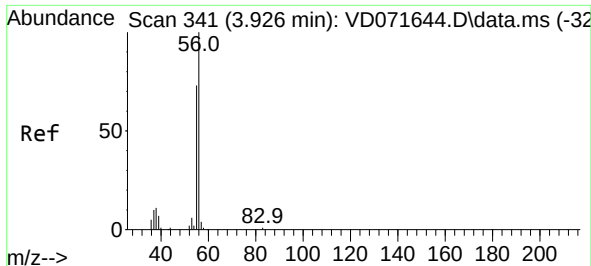
Tgt Ion: 64 Resp: 186
Ion Ratio Lower Upper
64 100
66 0.0 24.2 36.2#



#12
1,1-Dichloroethene
Concen: 1.624 ug/l
RT: 4.085 min Scan# 368
Delta R.T. 0.006 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 96 Resp: 78
Ion Ratio Lower Upper
96 100
61 0.0 137.8 206.8#
98 0.0 48.3 72.5#





#13

Acrolein

Concen: 11.561 ug/l

RT: 3.950 min Scan# 341

Delta R.T. 0.024 min

Lab File: VD071684.D

Acq: 12 Jan 2022 14:13

Instrument :

MSVOA_D

ClientSampleId :

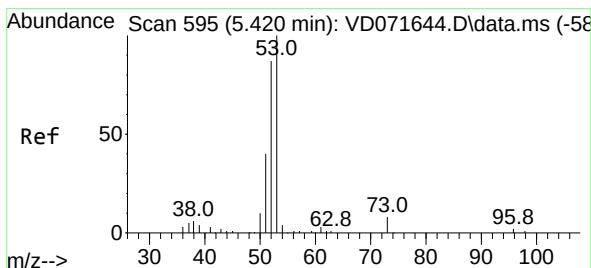
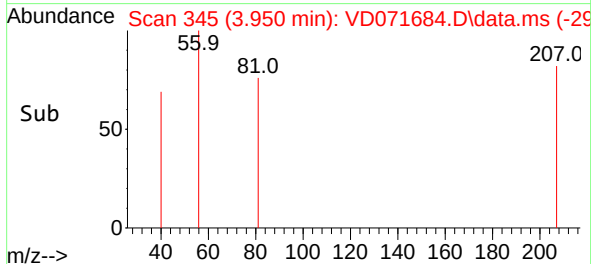
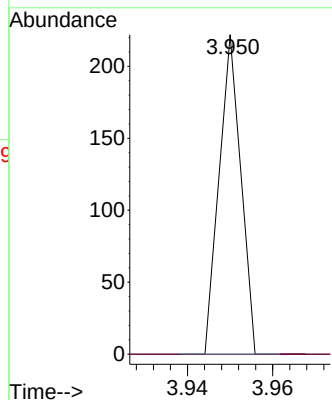
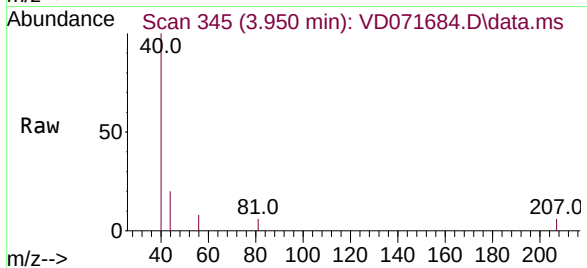
TP-1D

Tgt Ion: 56 Resp: 78

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#15

Acrylonitrile

Concen: 4.483 ug/l

RT: 5.509 min Scan# 610

Delta R.T. 0.089 min

Lab File: VD071684.D

Acq: 12 Jan 2022 14:13

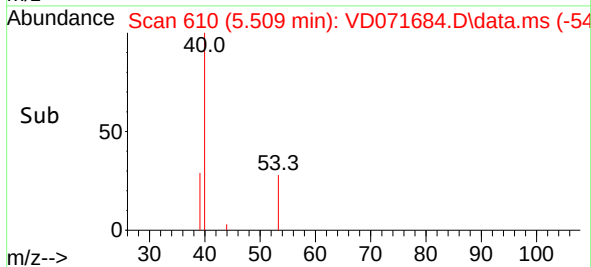
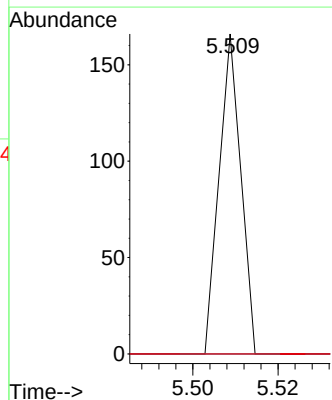
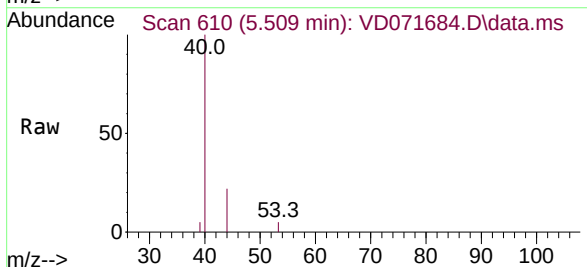
Tgt Ion: 53 Resp: 59

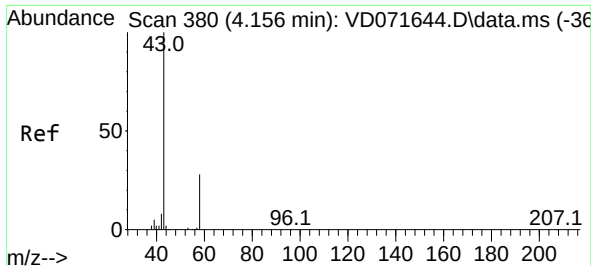
Ion Ratio Lower Upper

53 100

52 0.0 65.6 98.4#

51 0.0 31.2 46.8#

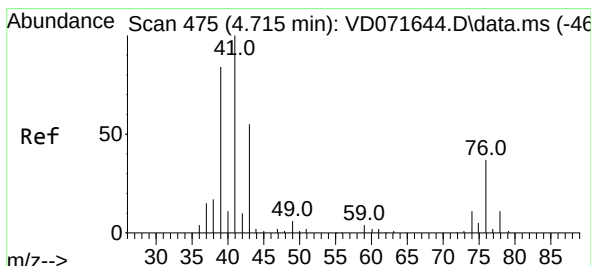
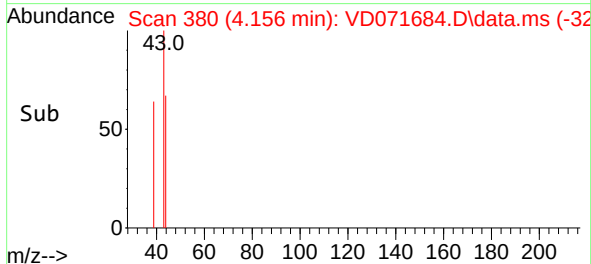
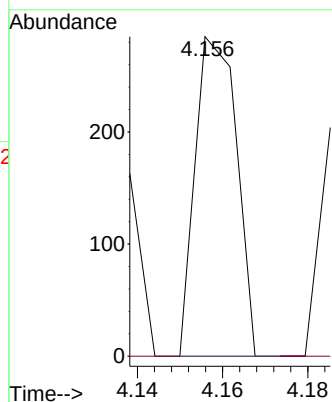
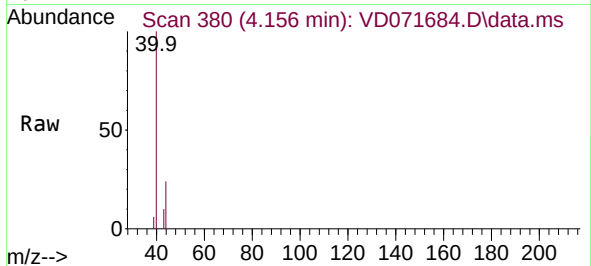




#16
Acetone
Concen: 12.031 ug/l
RT: 4.156 min Scan# 31
Delta R.T. 0.001 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

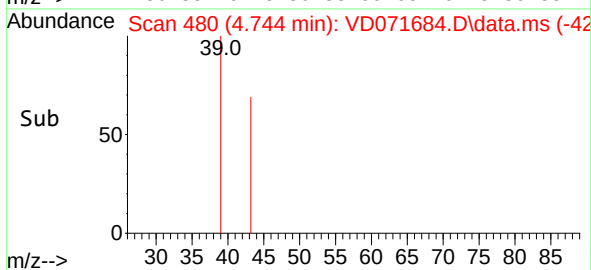
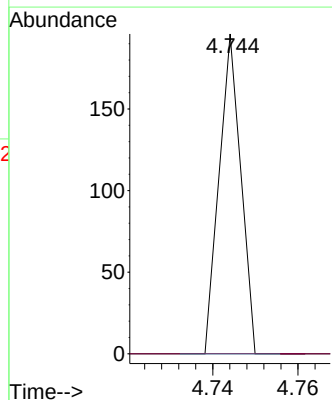
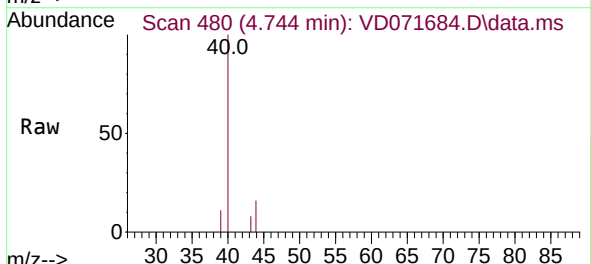
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

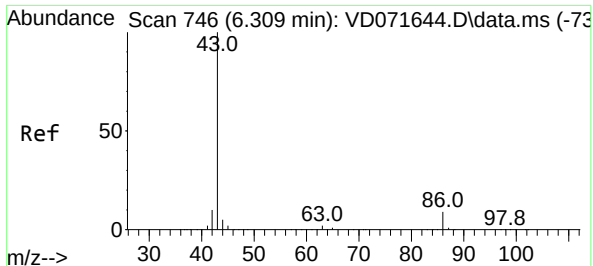
Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 0.0 21.0 31.6#



#18
Methyl Acetate
Concen: 1.093 ug/l
RT: 4.744 min Scan# 480
Delta R.T. 0.030 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 43 Resp: 69
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#

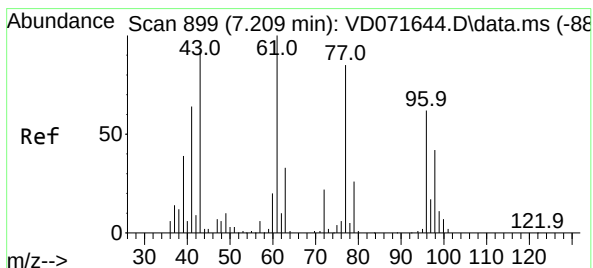
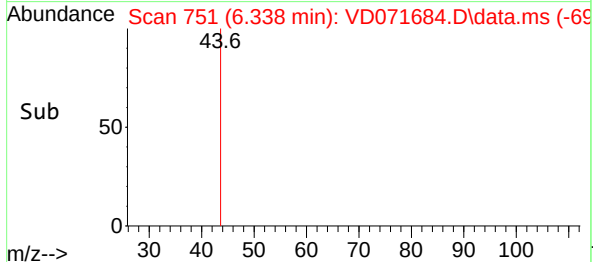
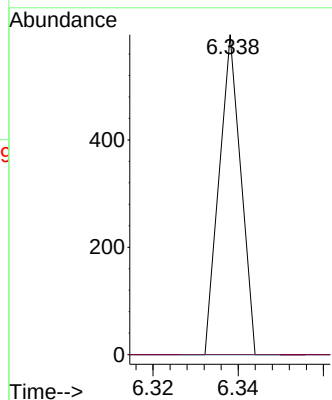
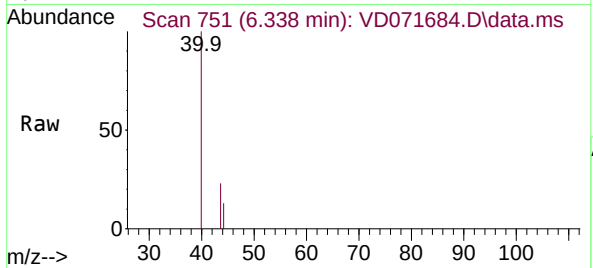




#23
 Vinyl Acetate
 Concen: 2.195 ug/l
 RT: 6.338 min Scan# 746
 Delta R.T. 0.030 min
 Lab File: VD071684.D
 Acq: 12 Jan 2022 14:13

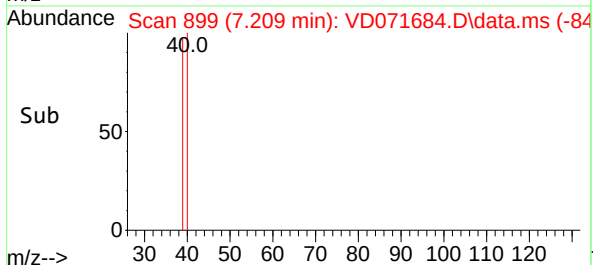
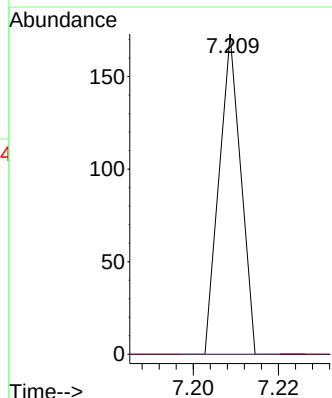
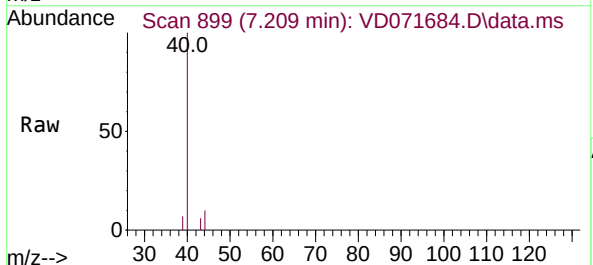
Instrument :
 MSVOA_D
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 TP-1D

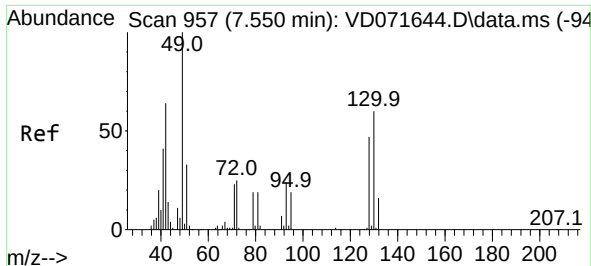
Tgt Ion: 43 Resp: 210
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.7 10.1#



#25
 2-Butanone
 Concen: 3.235 ug/l
 RT: 7.209 min Scan# 899
 Delta R.T. 0.001 min
 Lab File: VD071684.D
 Acq: 12 Jan 2022 14:13

Tgt Ion: 43 Resp: 61
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.4 24.6#

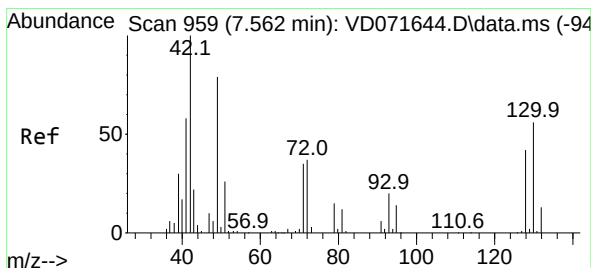
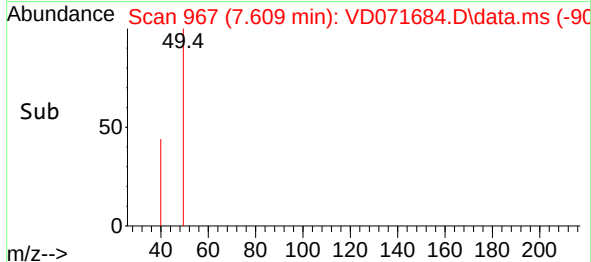
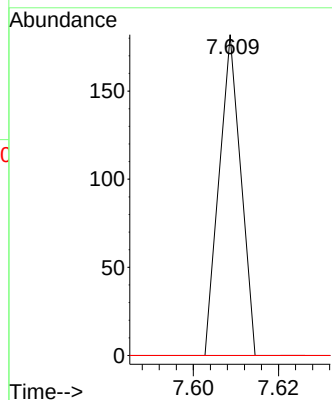
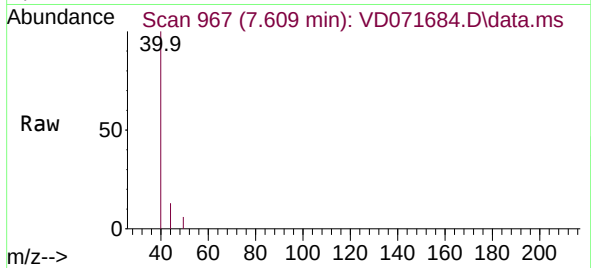




#28
Bromochloromethane
Concen: 1.122 ug/l
RT: 7.609 min Scan# 90
Delta R.T. 0.060 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

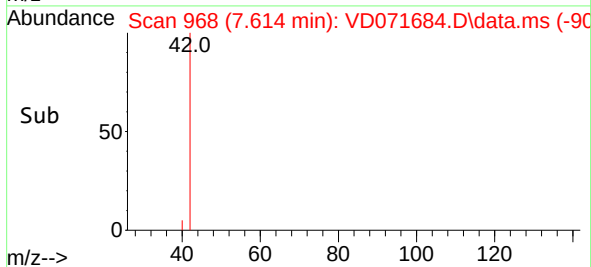
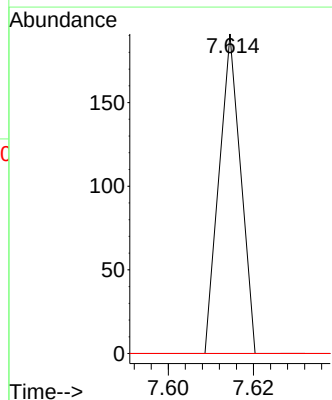
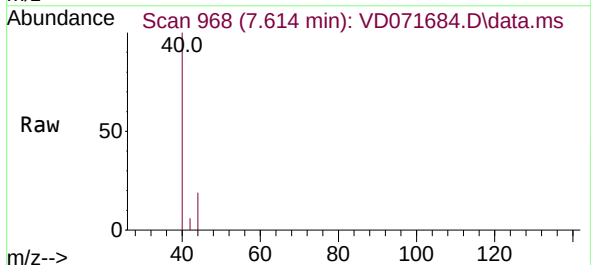
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

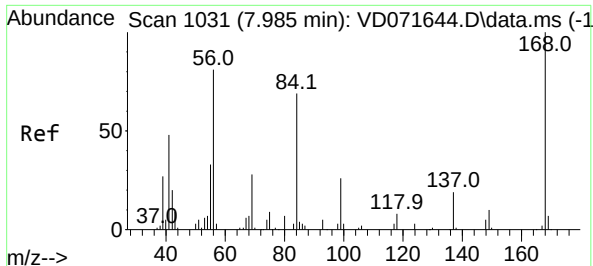
Tgt Ion: 49 Resp: 64
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 48.9 73.3#



#29
Tetrahydrofuran
Concen: 6.177 ug/l
RT: 7.614 min Scan# 968
Delta R.T. 0.053 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 42 Resp: 67
Ion Ratio Lower Upper
42 100
72 0.0 29.6 44.4#
71 0.0 27.3 40.9#





#31

Cyclohexane

Concen: 1.858 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. -0.005 min

Lab File: VD071684.D

Acq: 12 Jan 2022 14:13

Instrument :

MSVOA_D

ClientSampleId :

TP-1D

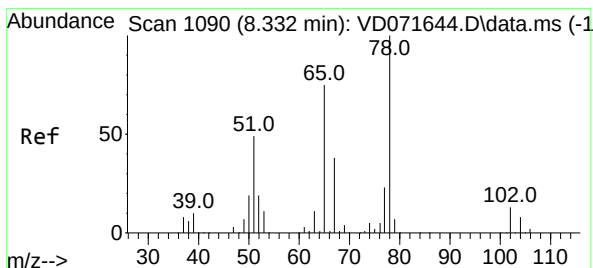
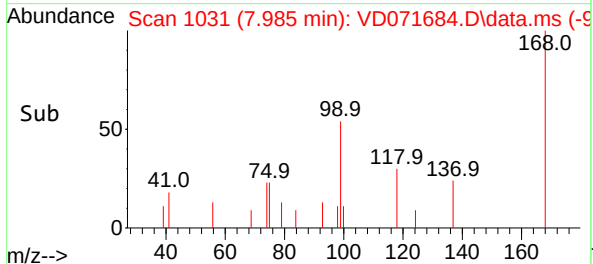
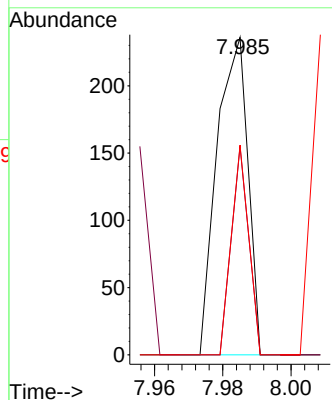
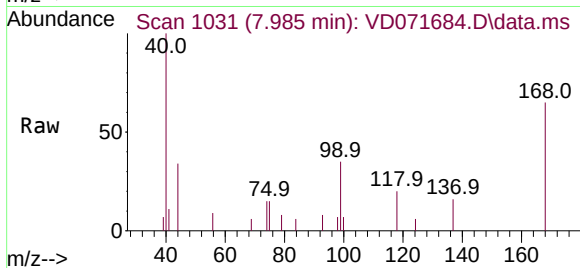
Tgt Ion: 56 Resp: 148

Ion Ratio Lower Upper

56 100

69 65.7 21.7 32.5#

84 66.1 65.7 98.5



#33

1,2-Dichloroethane-d4

Concen: 63.236 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VD071684.D

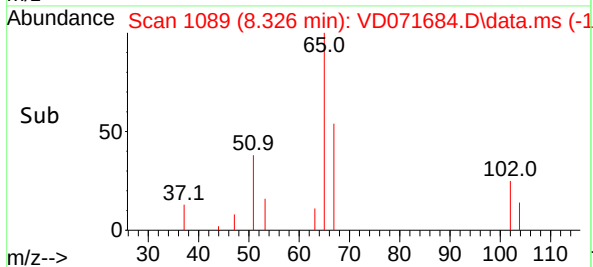
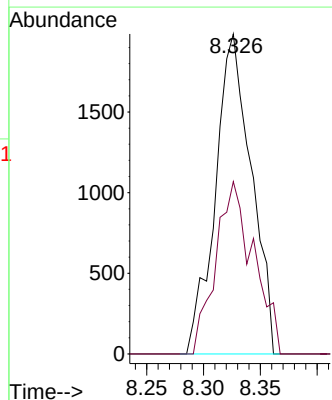
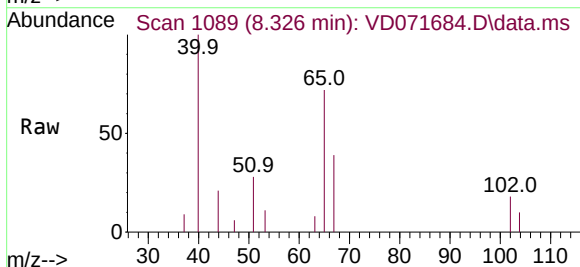
Acq: 12 Jan 2022 14:13

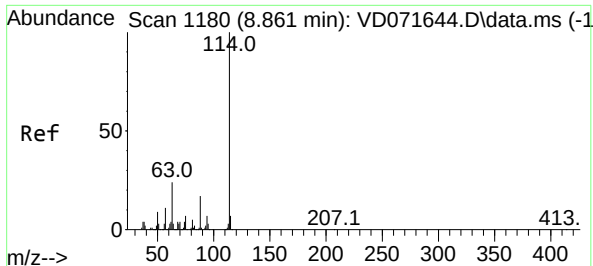
Tgt Ion: 65 Resp: 4371

Ion Ratio Lower Upper

65 100

67 56.7 0.0 101.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VD071684.D

Acq: 12 Jan 2022 14:13

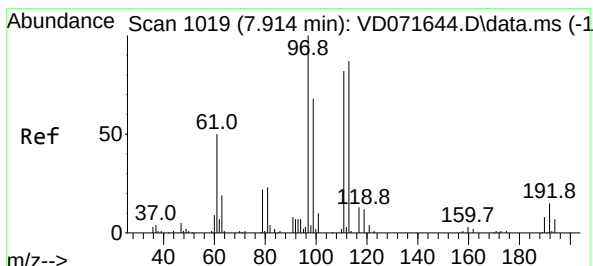
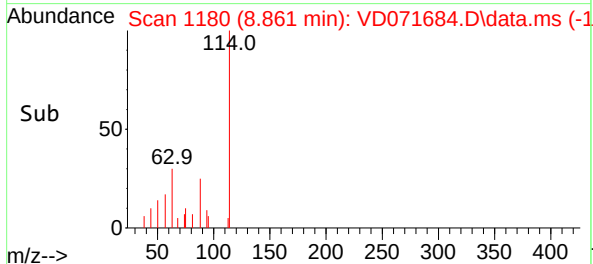
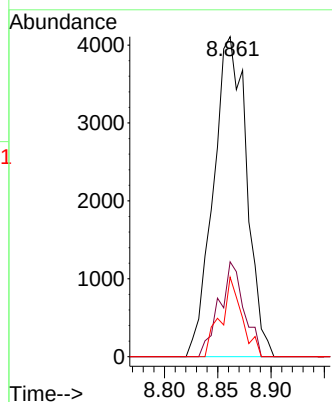
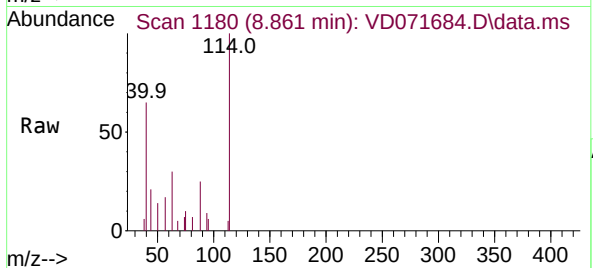
Instrument :

MSVOA_D

ClientSampleId :

TP-1D

Tgt Ion:114	Resp:	8898
Ion Ratio	Lower	Upper
114	100	
63	29.7	0.0 46.2
88	24.9	0.0 32.0



#35

Dibromofluoromethane

Concen: 48.363 ug/l

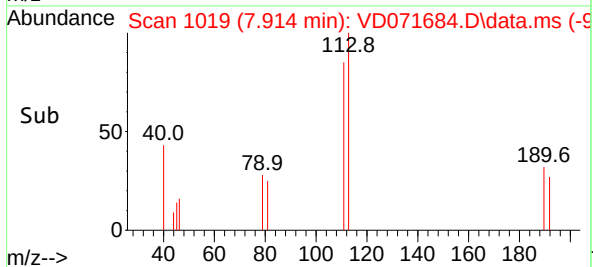
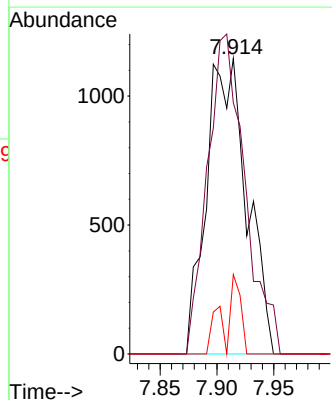
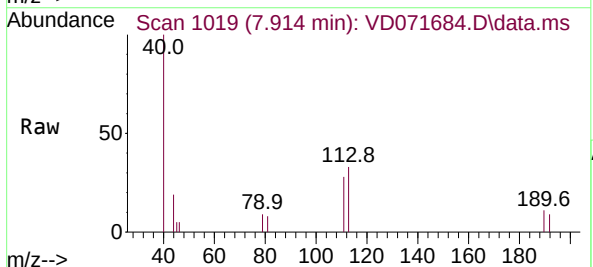
RT: 7.914 min Scan# 1019

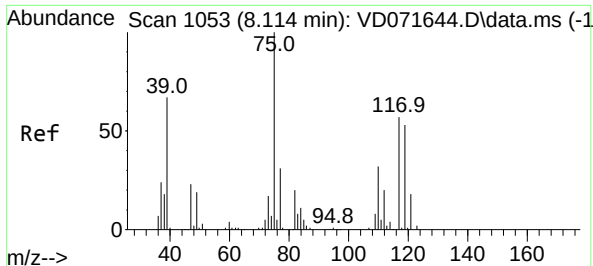
Delta R.T. 0.000 min

Lab File: VD071684.D

Acq: 12 Jan 2022 14:13

Tgt Ion:113	Resp:	2844
Ion Ratio	Lower	Upper
113	100	
111	100.2	82.2 123.4
192	6.6	14.2 21.2





#36

1,1-Dichloropropene

Concen: 5.615 ug/l

RT: 7.979 min Scan# 1

Delta R.T. -0.135 min

Lab File: VD071684.D

Acq: 12 Jan 2022 14:13

Instrument :

MSVOA_D

ClientSampleId :

TP-1D

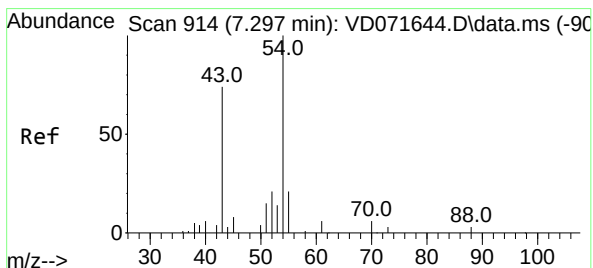
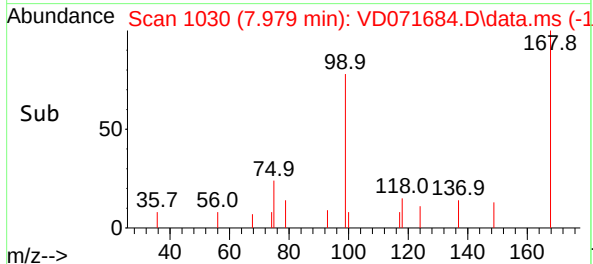
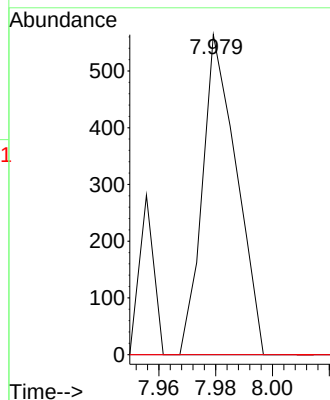
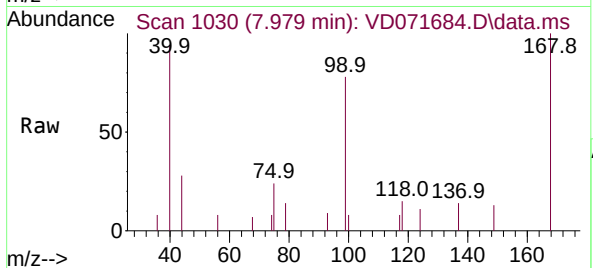
Tgt Ion: 75 Resp: 471

Ion Ratio Lower Upper

75 100

110 0.0 16.0 48.0#

77 0.0 24.5 36.7#



#37

Ethyl Acetate

Concen: 1.567 ug/l

RT: 7.209 min Scan# 899

Delta R.T. -0.082 min

Lab File: VD071684.D

Acq: 12 Jan 2022 14:13

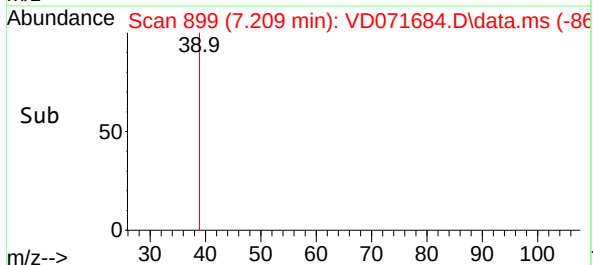
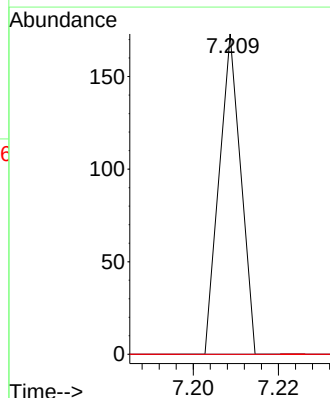
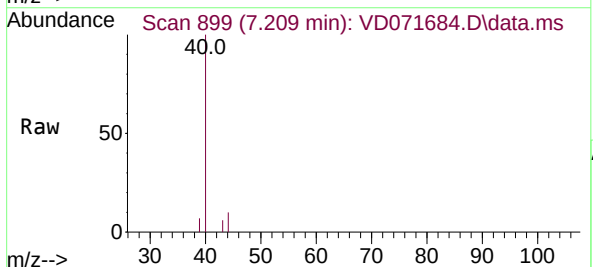
Tgt Ion: 43 Resp: 61

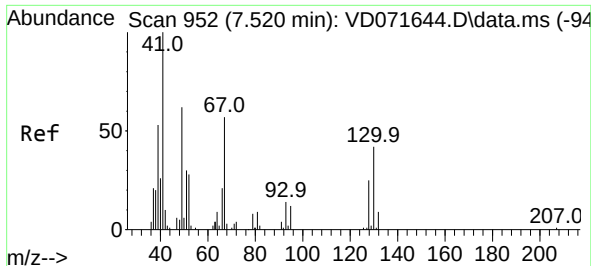
Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

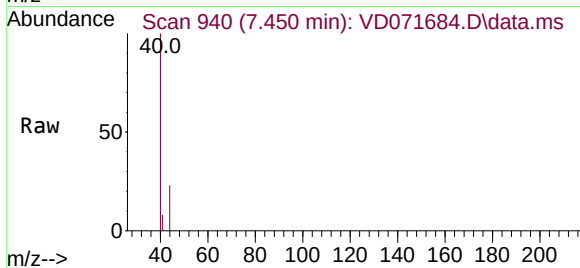
70 0.0 7.4 11.2#



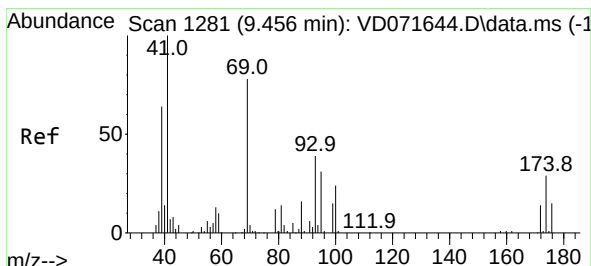
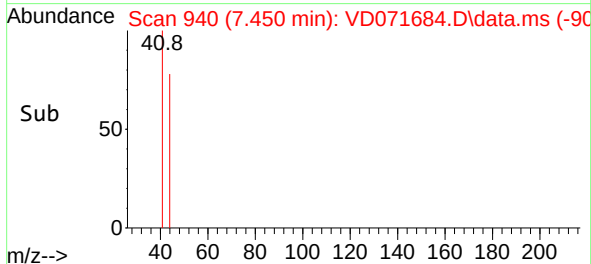
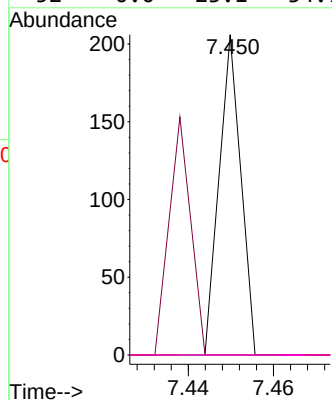


#41
Methacrylonitrile
Concen: 4.103 ug/l
RT: 7.450 min Scan# 94
Delta R.T. -0.070 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Instrument :
MSVOA_D
ClientSampleId :
TP-1D

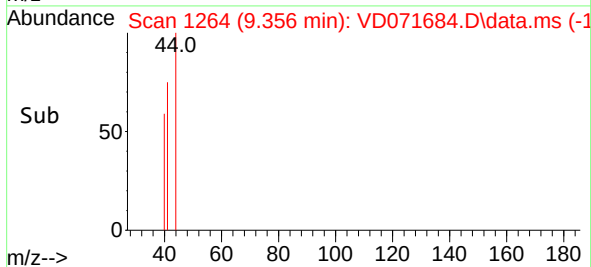
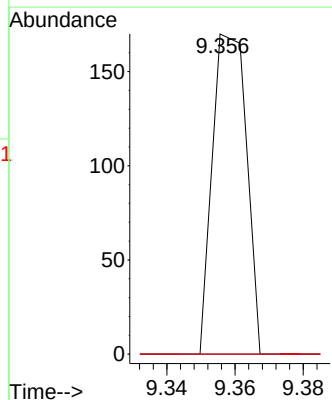
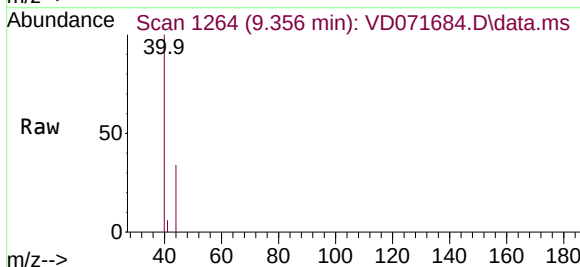


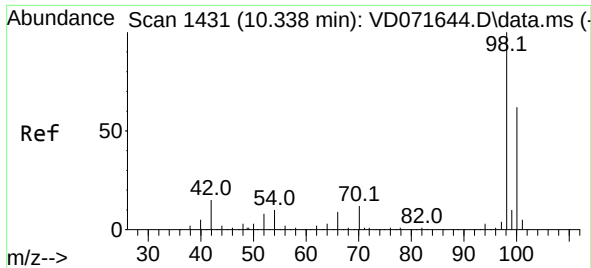
Tgt Ion:	41	Resp:	73
Ion	Ratio	Lower	Upper
41	100		
39	74.0	46.9	70.3#
67	0.0	49.3	73.9#
52	0.0	23.1	34.7#



#48
Methyl methacrylate
Concen: 3.186 ug/l
RT: 9.356 min Scan# 1264
Delta R.T. -0.099 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion:	41	Resp:	118
Ion	Ratio	Lower	Upper
41	100		
69	0.0	59.5	89.3#
39	0.0	56.0	84.0#

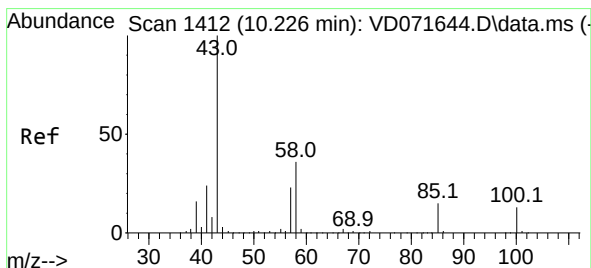
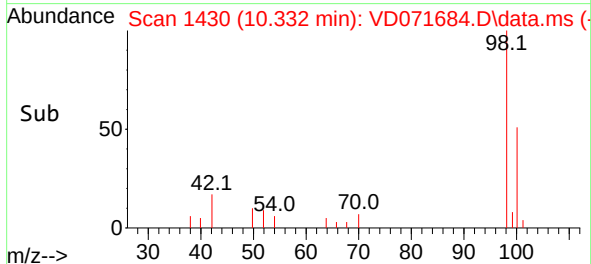
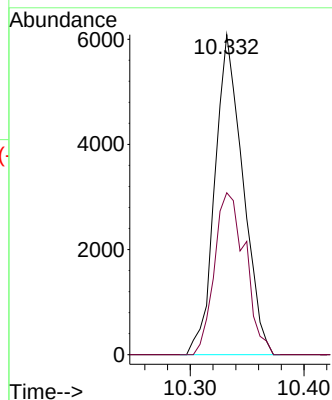
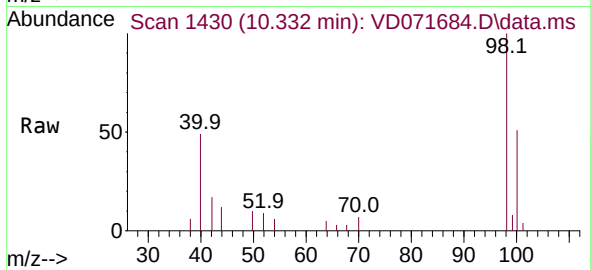




#50
Toluene-d8
Concen: 47.418 ug/l
RT: 10.332 min Scan# 1431
Delta R.T. -0.005 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

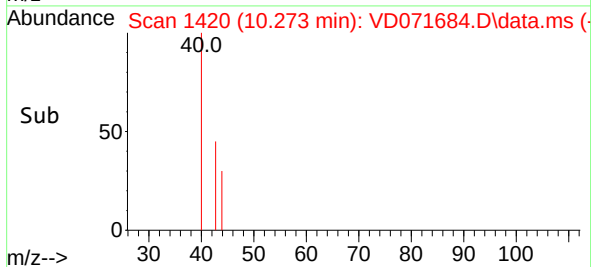
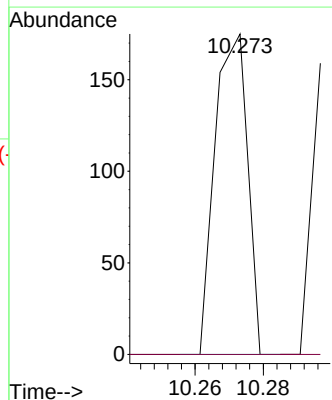
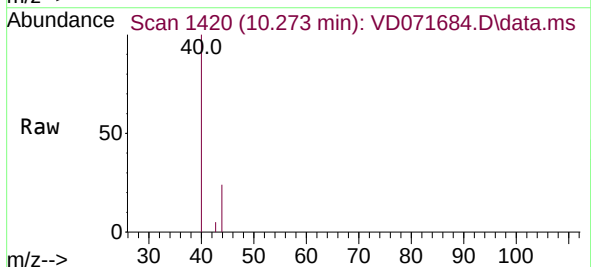
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

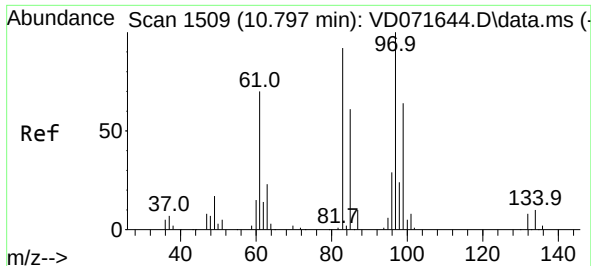
Tgt Ion: 98 Resp: 10438
Ion Ratio Lower Upper
98 100
100 55.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.997 ug/l
RT: 10.273 min Scan# 1420
Delta R.T. 0.047 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.2#

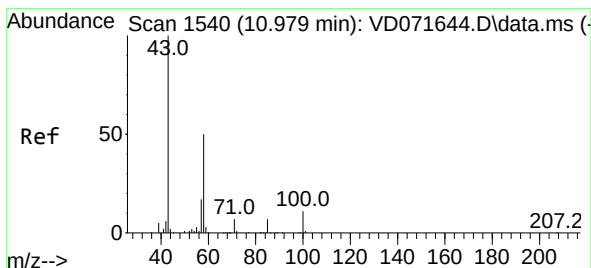
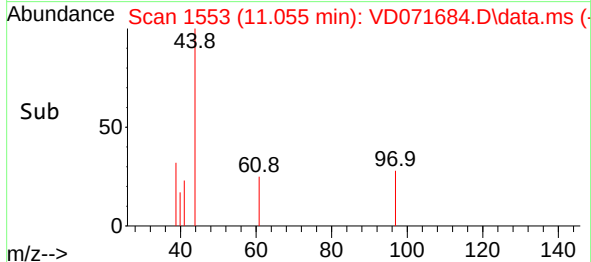
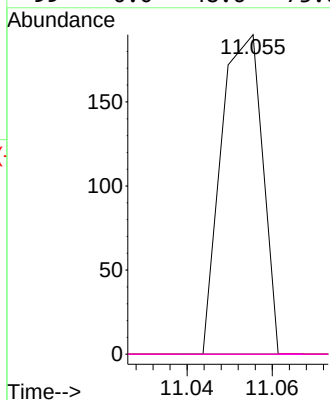
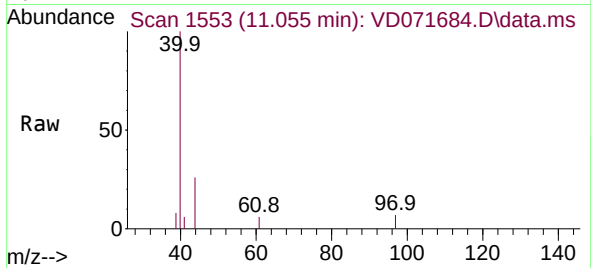




#55
1,1,2-Trichloroethane
Concen: 3.053 ug/l
RT: 11.055 min Scan# 11053
Delta R.T. 0.259 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

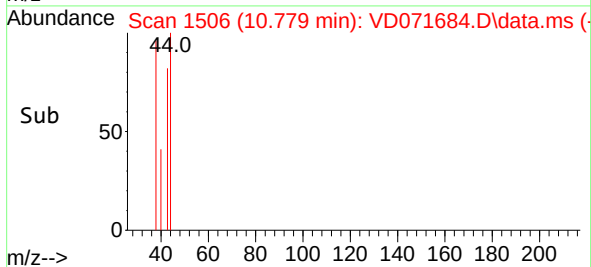
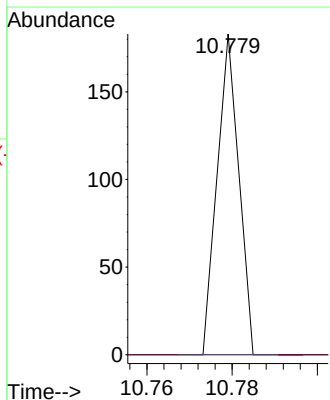
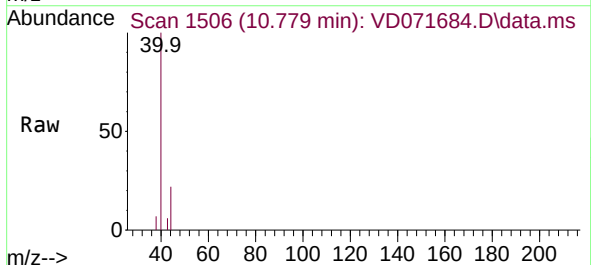
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

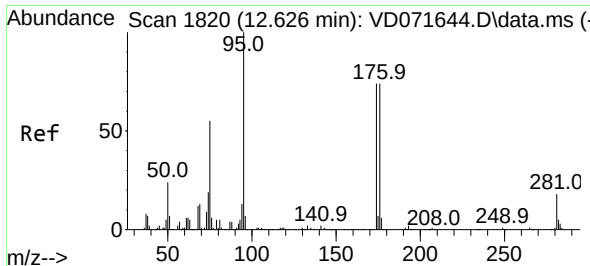
Tgt Ion: 97 Resp: 128
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 46.8 70.2#
99 0.0 48.6 73.0#



#59
2-Hexanone
Concen: 2.404 ug/l
RT: 10.779 min Scan# 1506
Delta R.T. -0.200 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
58 0.0 24.3 72.8#

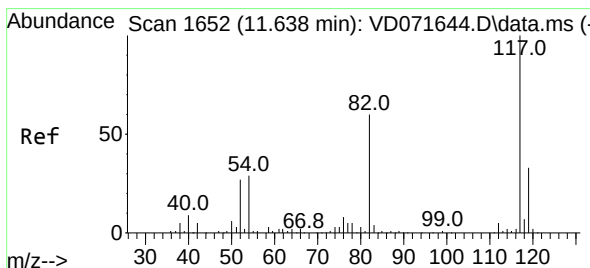
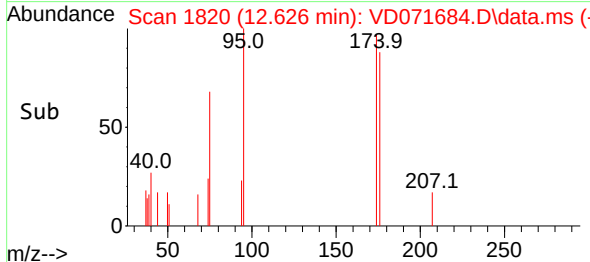
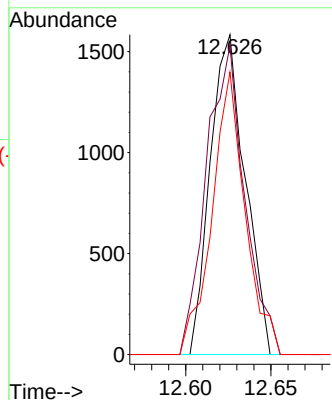
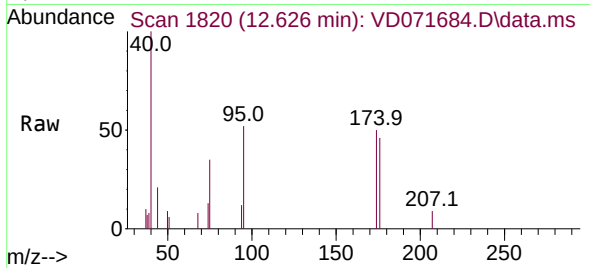




#62
4-Bromofluorobenzene
Concen: 29.162 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

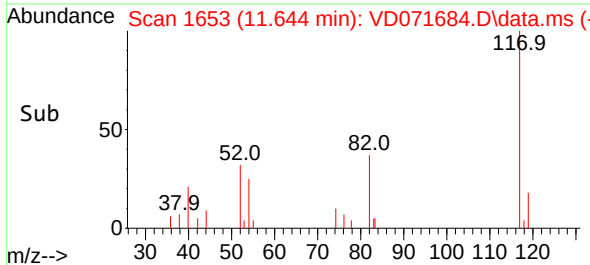
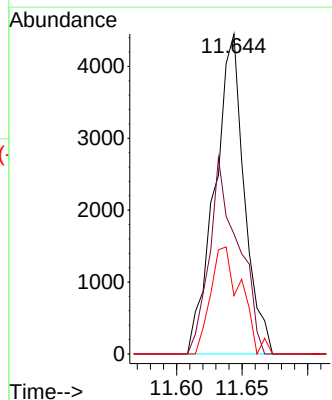
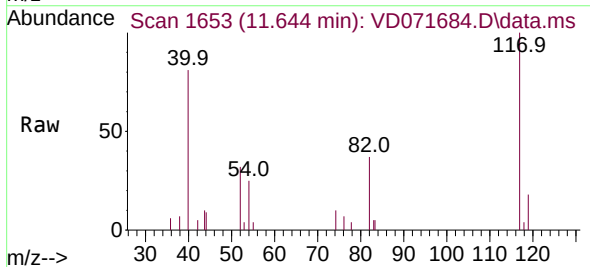
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

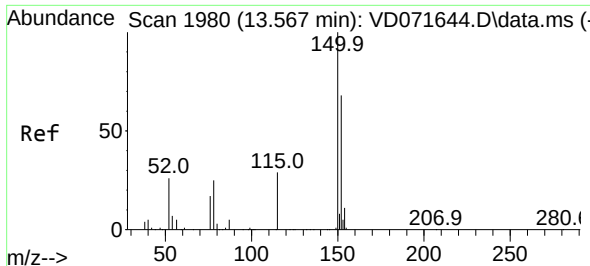
Tgt Ion:	95	Resp:	2262
Ion Ratio	Lower	Upper	
95	100		
174	105.6	0.0	150.0
176	83.7	0.0	146.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.007 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion:	117	Resp:	6965
Ion Ratio	Lower	Upper	
117	100		
82	37.5	46.9	70.3#
119	18.2	26.6	39.8#

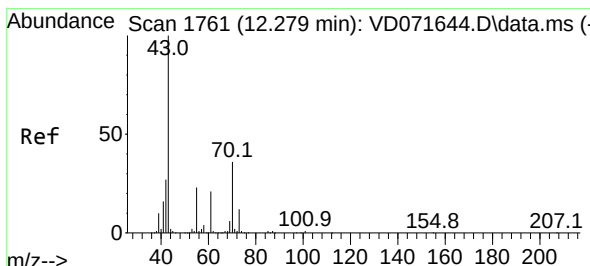
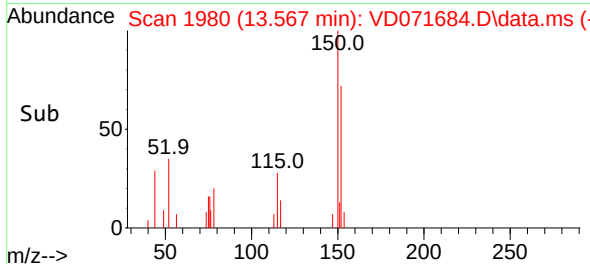
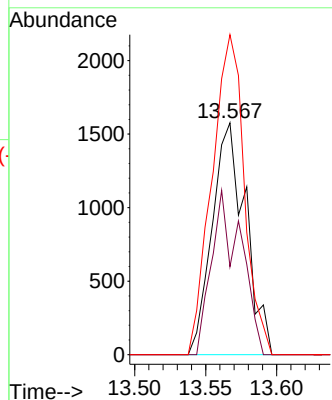
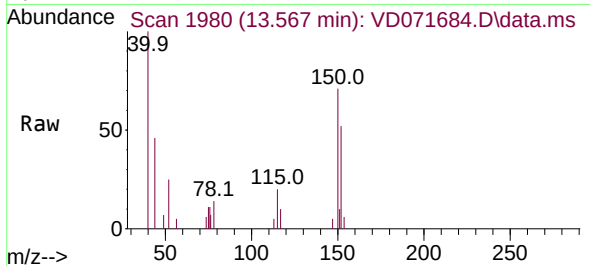




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

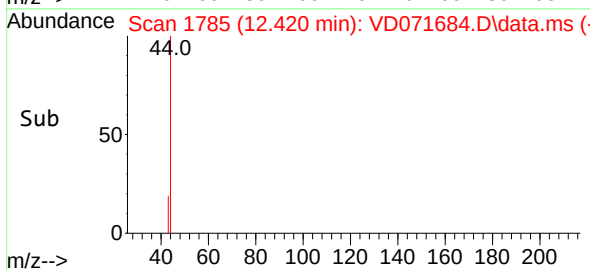
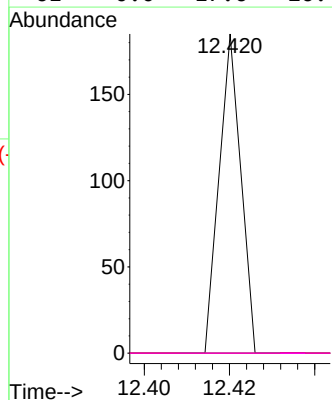
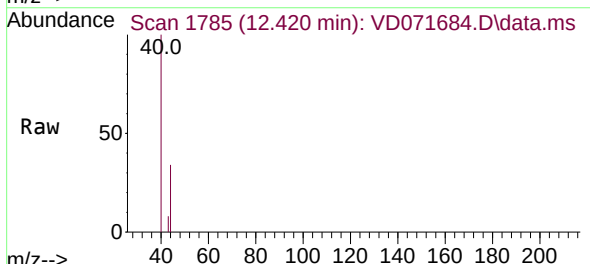
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

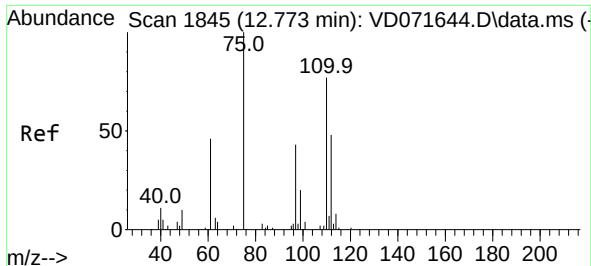
Tgt Ion:152 Resp: 2576
Ion Ratio Lower Upper
152 100
115 62.7 31.5 94.5
150 133.9 0.0 348.0



#74
N-ethyl acetate
Concen: 1.431 ug/l
RT: 12.420 min Scan# 1785
Delta R.T. 0.142 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
70 0.0 29.5 44.3#
55 0.0 19.1 28.7#
61 0.0 17.6 26.4#

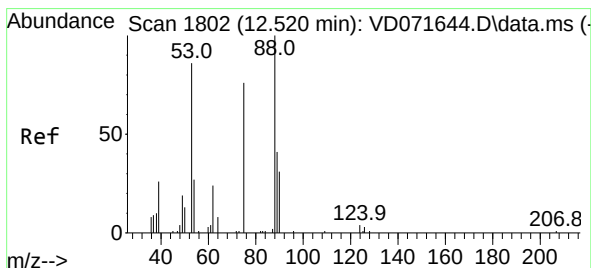
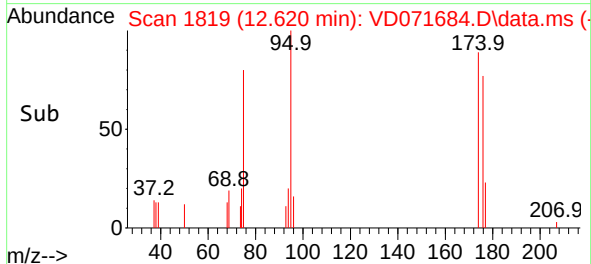
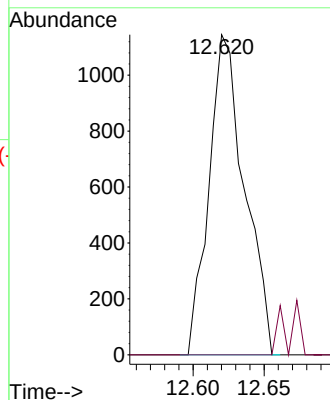
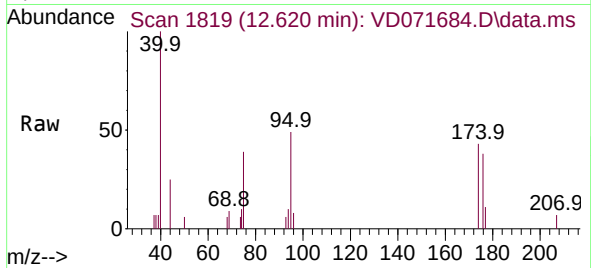




#76
1,2,3-Trichloropropane
Concen: 80.309 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

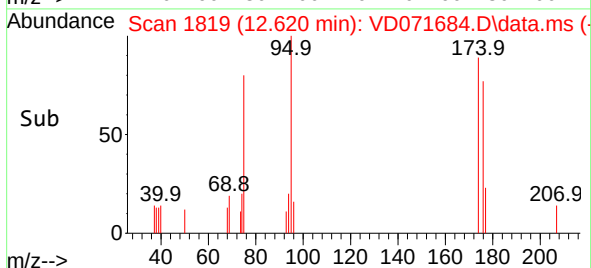
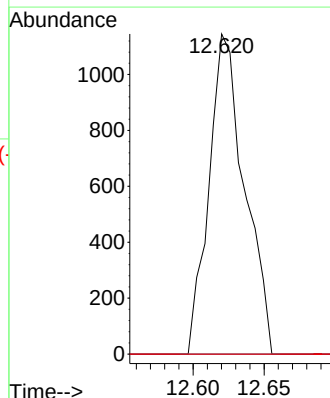
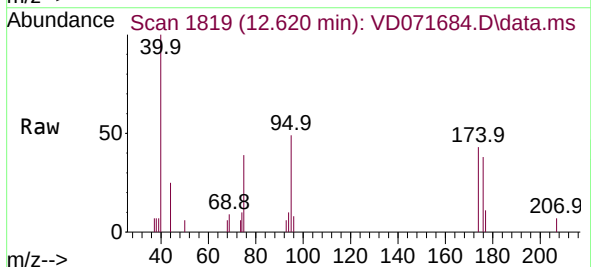
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

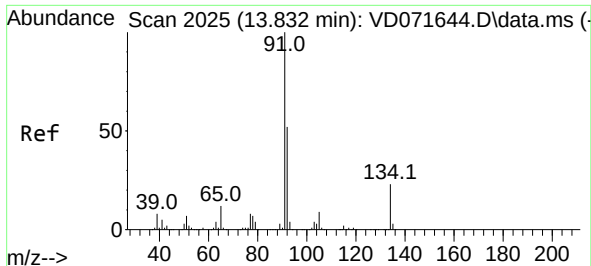
Tgt Ion: 75 Resp: 1999
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 223.892 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 75 Resp: 1999
Ion Ratio Lower Upper
75 100
53 0.0 95.4 143.0#
89 0.0 37.2 55.8#

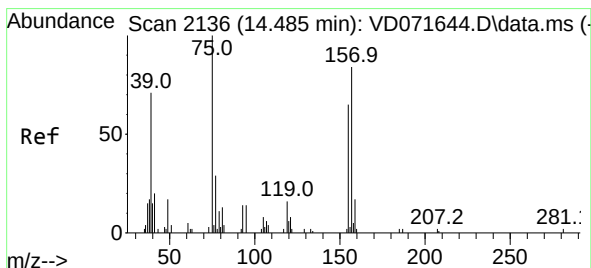
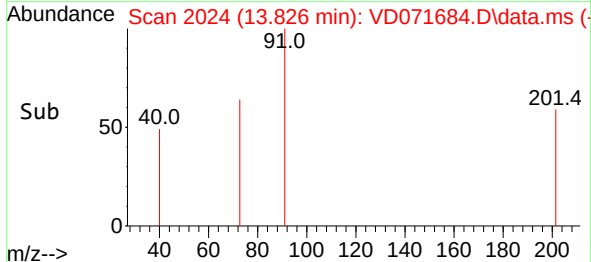
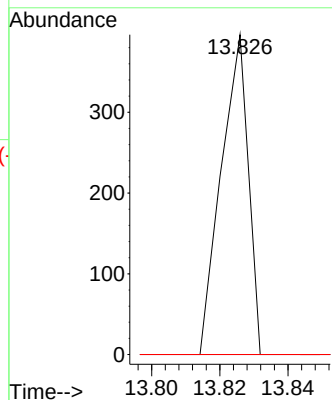
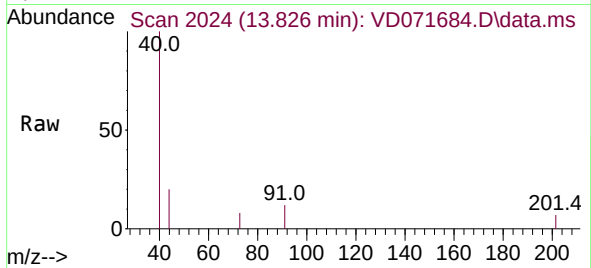




#89
n-Butylbenzene
Concen: 1.310 ug/l
RT: 13.826 min Scan# 2095
Delta R.T. -0.005 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

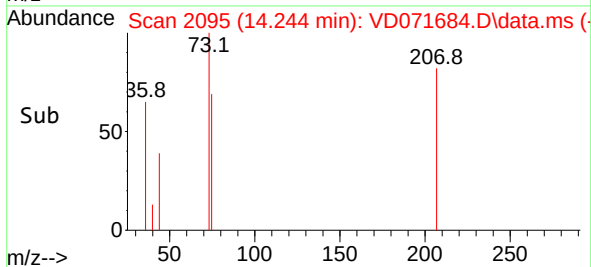
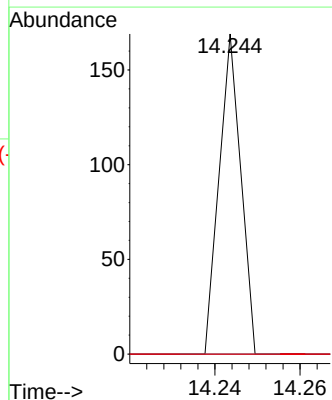
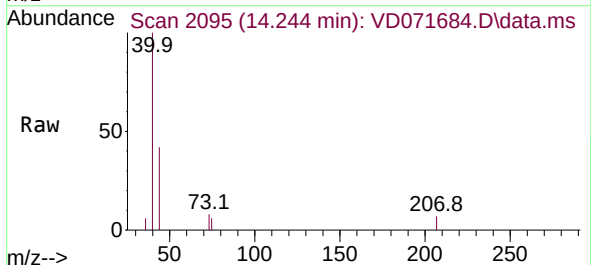
Instrument :
MSVOA_D
ClientSampleId :
TP-1D

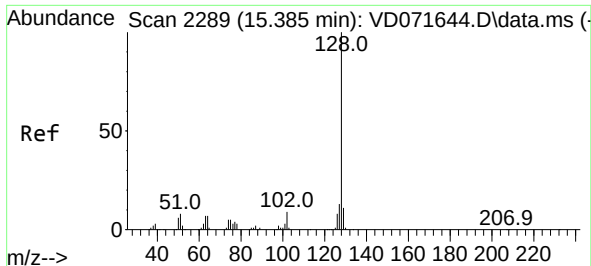
Tgt Ion: 91 Resp: 218
Ion Ratio Lower Upper
91 100
92 0.0 26.6 79.8#
134 0.0 12.1 36.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 11.380 ug/l
RT: 14.244 min Scan# 2095
Delta R.T. -0.246 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion: 75 Resp: 60
Ion Ratio Lower Upper
75 100
155 0.0 35.4 106.1#
157 0.0 44.9 134.5#

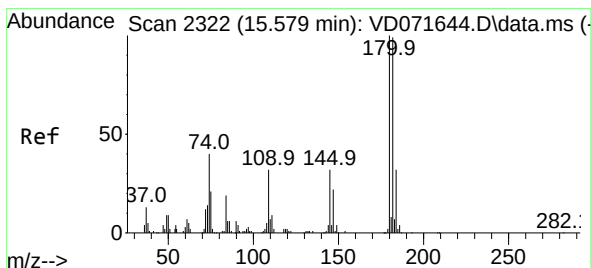
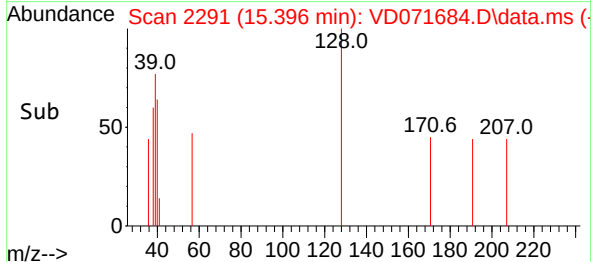
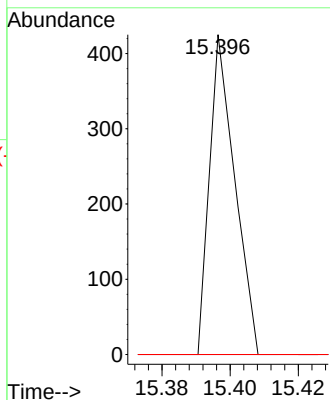
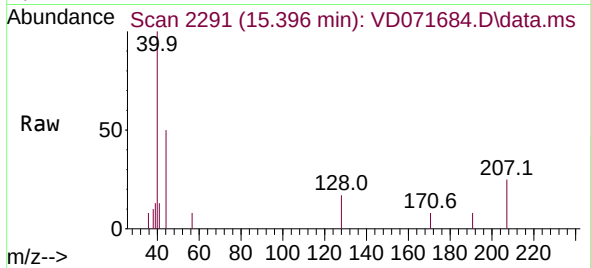




#95
Naphthalene
Concen: 3.035 ug/l
RT: 15.396 min Scan# 219
Delta R.T. 0.012 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Instrument :
MSVOA_D
ClientSampleId :
TP-1D

Tgt Ion:128 Resp: 219
Ion Ratio Lower Upper
128 100
127 0.0 10.9 16.3#
129 0.0 9.1 13.7#



#96
1,2,3-Trichlorobenzene
Concen: 4.146 ug/l
RT: 15.591 min Scan# 2324
Delta R.T. 0.013 min
Lab File: VD071684.D
Acq: 12 Jan 2022 14:13

Tgt Ion:180 Resp: 144
Ion Ratio Lower Upper
180 100
182 0.0 47.0 141.2#
145 0.0 16.4 49.2#

