

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD042122\
 Data File : VD072682.D
 Acq On : 21 Apr 2022 20:36
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Apr 22 03:47:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D032922S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 30 02:44:36 2022
 Response via : Initial Calibration

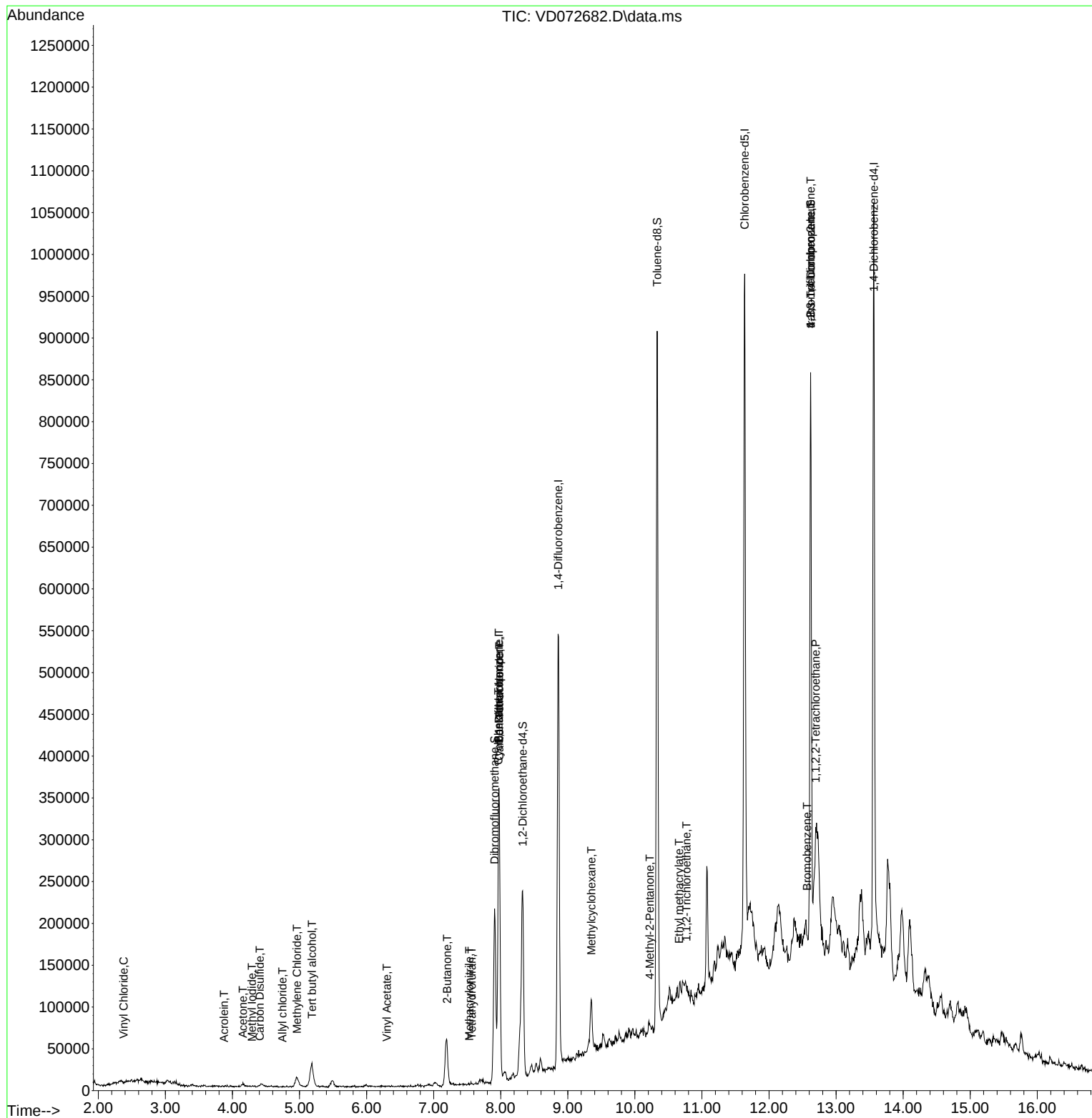
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.973	168	246417	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	447609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	465828	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	229949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	181580	60.915	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	121.820%
35) Dibromofluoromethane	7.908	113	150146	43.163	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	86.320%
50) Toluene-d8	10.332	98	562228	46.497	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	93.000%
62) 4-Bromofluorobenzene	12.620	95	233995	49.551	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	99.100%
Target Compounds						Qvalue
4) Vinyl Chloride	2.379	62	116	1.005	ug/l #	43
10) Methyl Iodide	4.291	142	323	3.844	ug/l #	49
11) Tert butyl alcohol	5.185	59	24340	154.620	ug/l #	76
13) Acrolein	3.873	56	77	1.102	ug/l #	83
14) Allyl chloride	4.744	41	99	1.152	ug/l #	71
16) Acetone	4.156	43	5867	10.555	ug/l	93
17) Carbon Disulfide	4.409	76	853	3.791	ug/l #	74
20) Methylene Chloride	4.962	84	8371	2.530	ug/l #	76
23) Vinyl Acetate	6.303	43	53	6.300	ug/l #	75
25) 2-Butanone	7.203	43	4056	5.276	ug/l	96
29) Tetrahydrofuran	7.567	42	487	1.049	ug/l #	59
31) Cyclohexane	7.967	56	11491	2.948	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	21594	5.873	ug/l #	61
38) Carbon Tetrachloride	7.979	117	27875	5.817	ug/l #	16
39) Methylcyclohexane	9.350	83	26779	7.752	ug/l #	86
41) Methacrylonitrile	7.532	41	1254	2.784	ug/l #	58
51) 4-Methyl-2-Pentanone	10.220	43	2466	1.300	ug/l	90
55) 1,1,2-Trichloroethane	10.767	97	7818	2.909	ug/l #	20
56) Ethyl methacrylate	10.661	69	811	1.430	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.696	83	19499	5.543	ug/l #	38
76) 1,2,3-Trichloropropane	12.620	75	113875	45.405	ug/l #	100
77) Bromobenzene	12.567	156	11101	2.667	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	113875	111.416	ug/l #	8

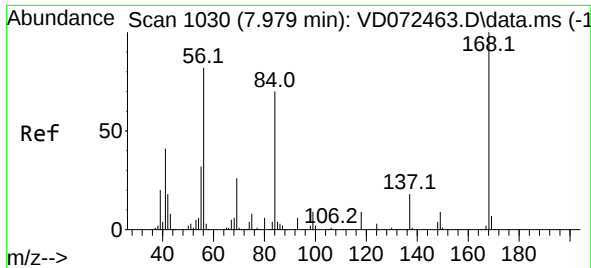
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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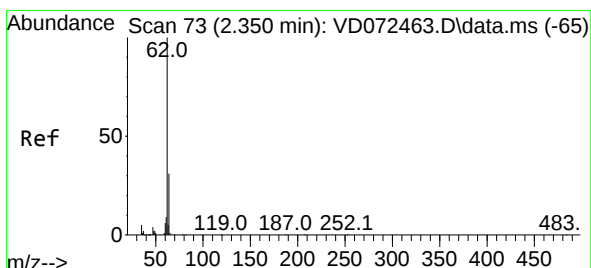
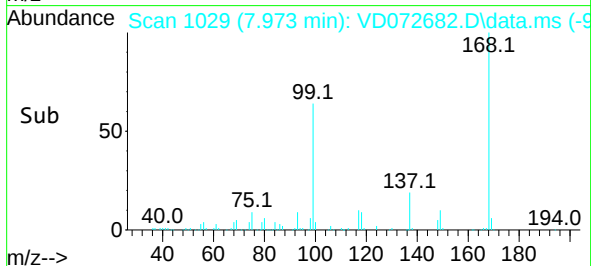
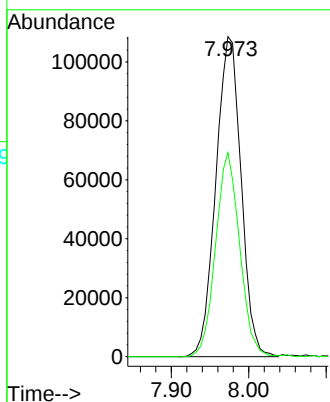
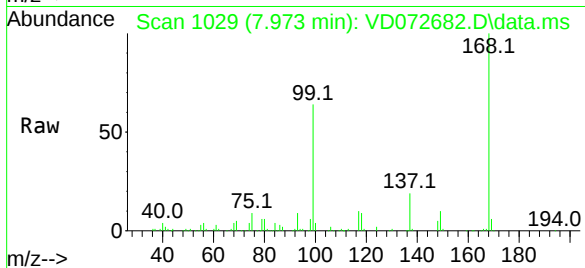




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

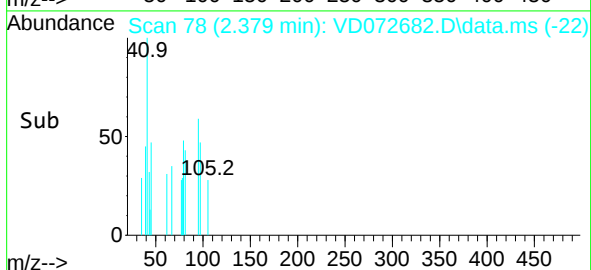
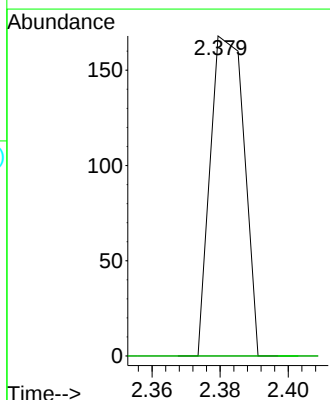
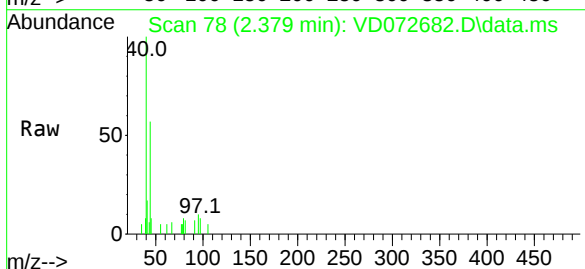
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

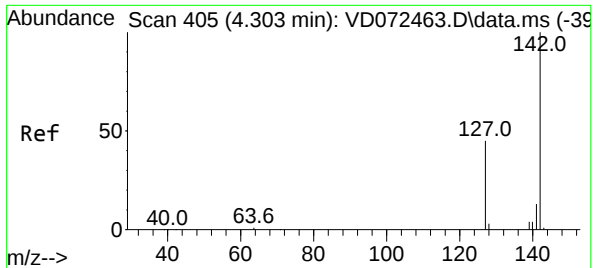
Tgt Ion:168 Resp: 246417
Ion Ratio Lower Upper
168 100
99 63.8 49.8 74.6



#4
Vinyl Chloride
Concen: 1.005 ug/l
RT: 2.379 min Scan# 78
Delta R.T. 0.029 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

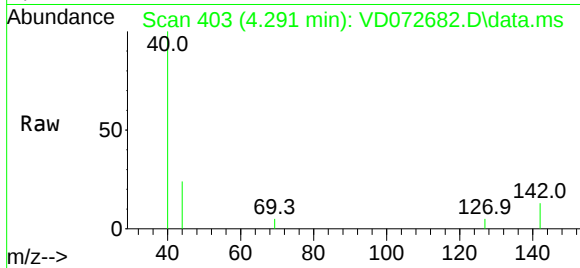
Tgt Ion: 62 Resp: 116
Ion Ratio Lower Upper
62 100
64 0.0 25.4 38.0#



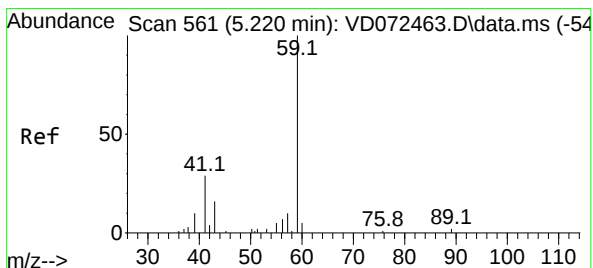
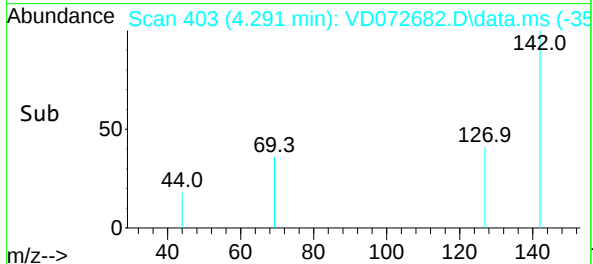
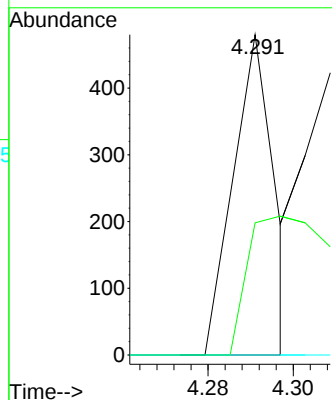


#10
Methyl Iodide
Concen: 3.844 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.012 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

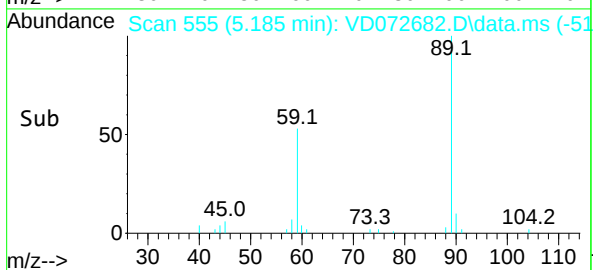
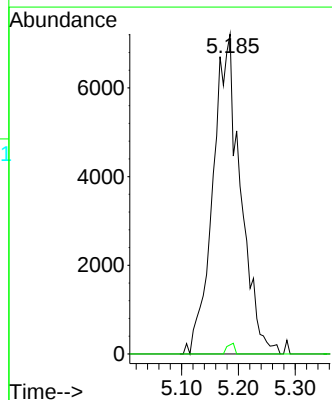
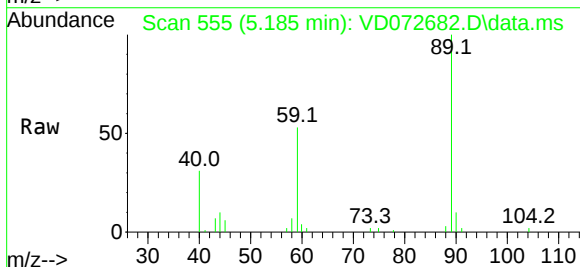


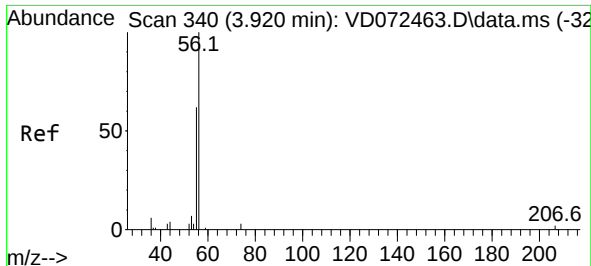
Tgt Ion:142 Resp: 323
Ion Ratio Lower Upper
142 100
127 83.6 37.3 55.9#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 154.620 ug/l
RT: 5.185 min Scan# 555
Delta R.T. -0.035 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

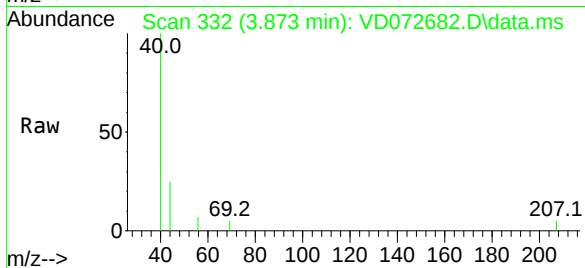
Tgt Ion: 59 Resp: 24340
Ion Ratio Lower Upper
59 100
57 0.9 7.8 11.6#



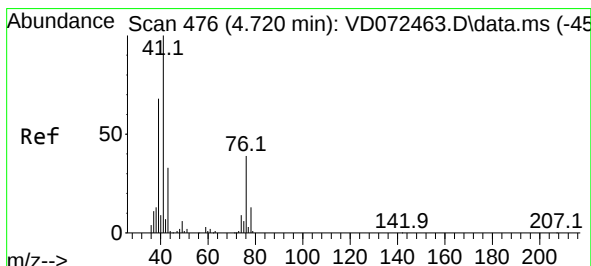
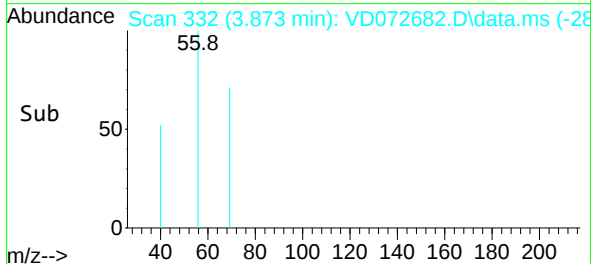
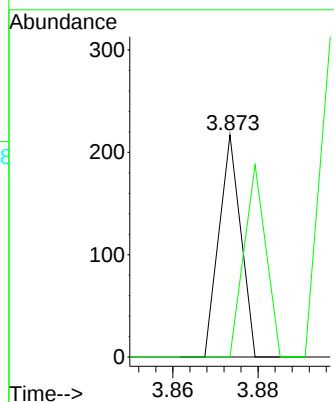


#13
Acrolein
Concen: 1.102 ug/l
RT: 3.873 min Scan# 31
Delta R.T. -0.047 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Instrument :
MSVOA_D
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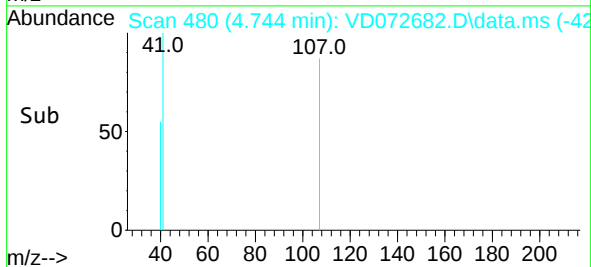
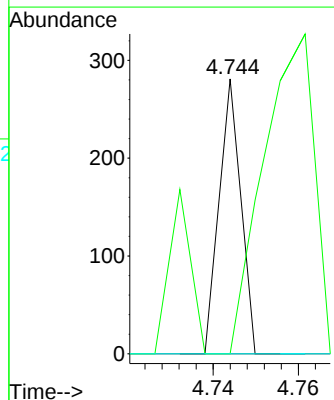
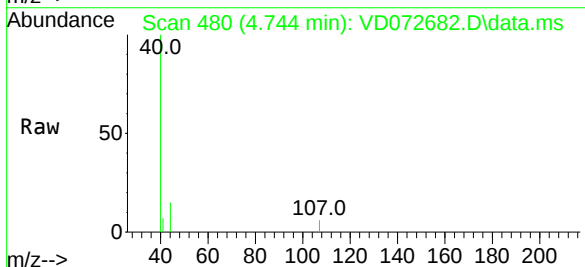


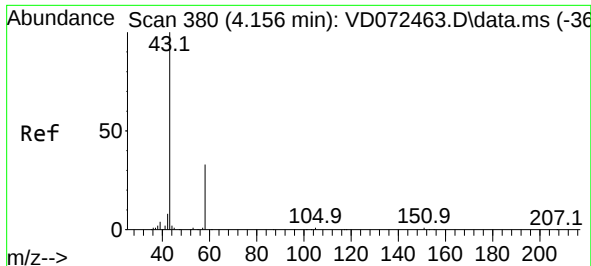
Tgt Ion: 56 Resp: 77
Ion Ratio Lower Upper
56 100
55 85.7 57.1 85.7#



#14
Allyl chloride
Concen: 1.152 ug/l
RT: 4.744 min Scan# 480
Delta R.T. 0.024 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Tgt Ion: 41 Resp: 99
Ion Ratio Lower Upper
41 100
39 59.6 59.3 88.9
76 0.0 25.7 38.5#

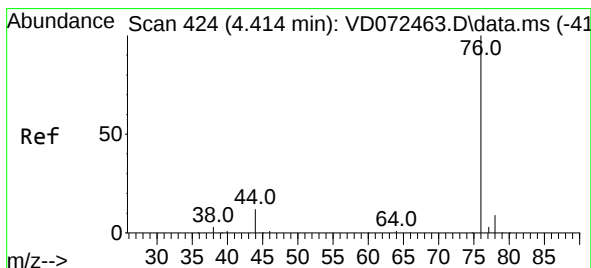
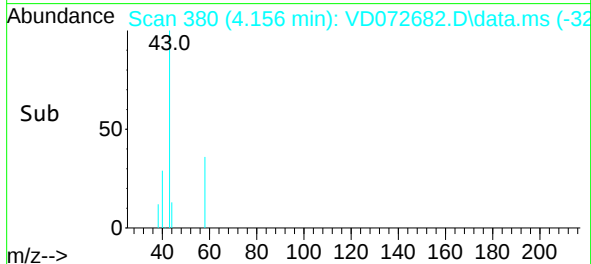
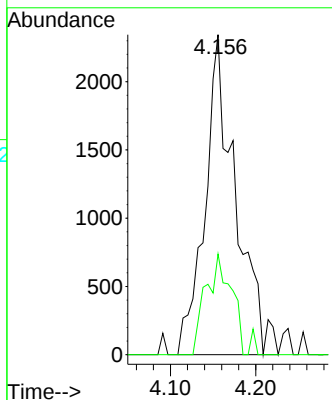
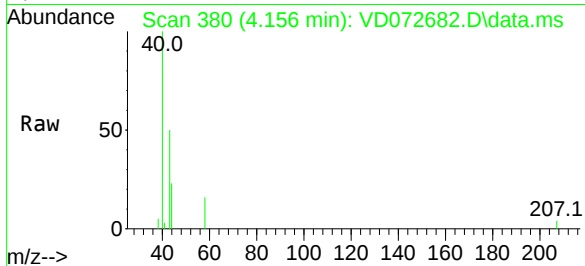




#16
Acetone
Concen: 10.555 ug/l
RT: 4.156 min Scan# 380
Delta R.T. 0.000 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

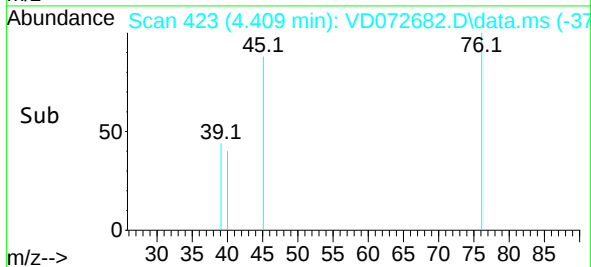
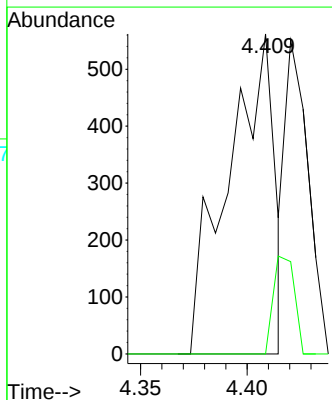
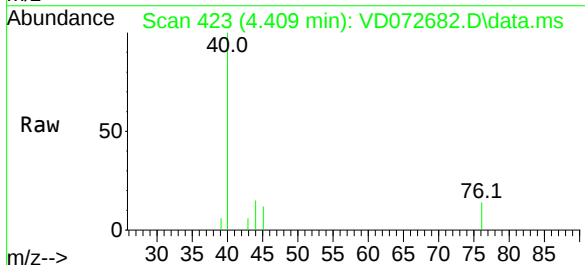
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

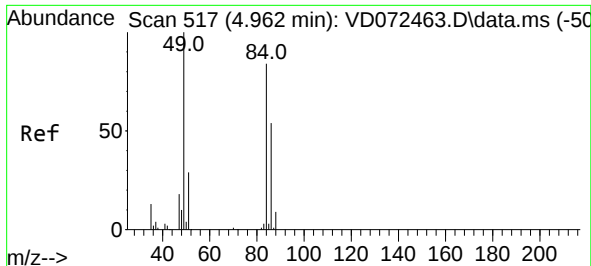
Tgt Ion: 43 Resp: 5867
Ion Ratio Lower Upper
43 100
58 31.5 22.1 33.1



#17
Carbon Disulfide
Concen: 3.791 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.005 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Tgt Ion: 76 Resp: 853
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#

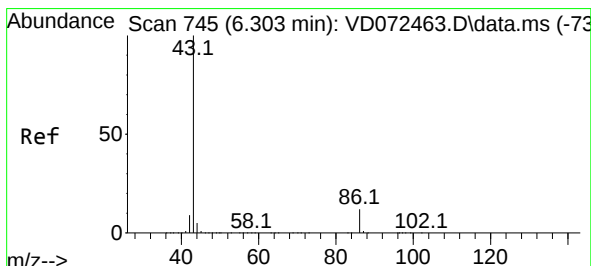
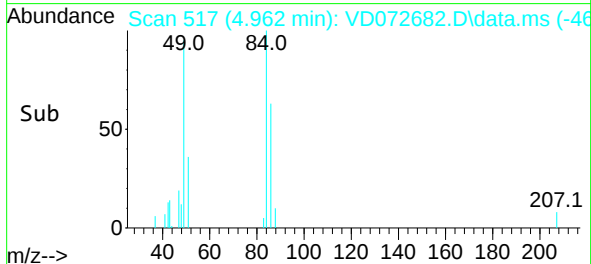
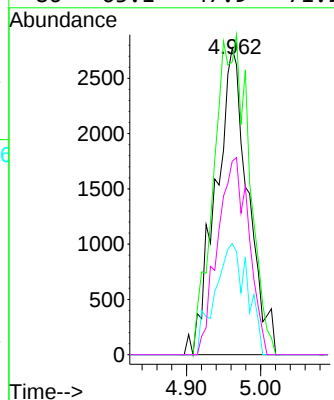
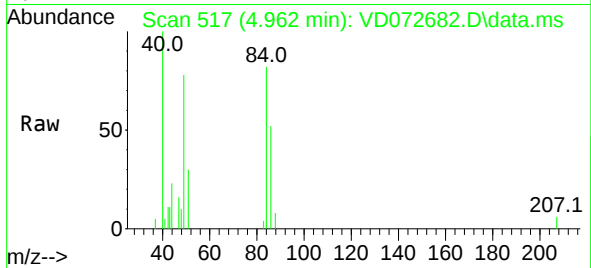




#20
Methylene Chloride
Concen: 2.530 ug/l
RT: 4.962 min Scan# 517
Delta R.T. 0.000 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

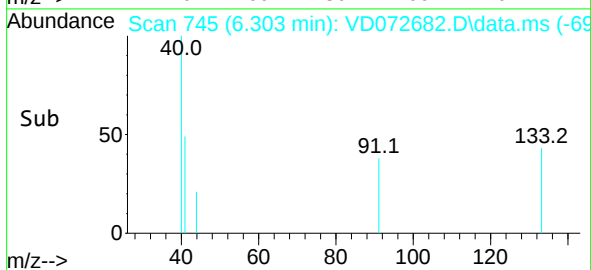
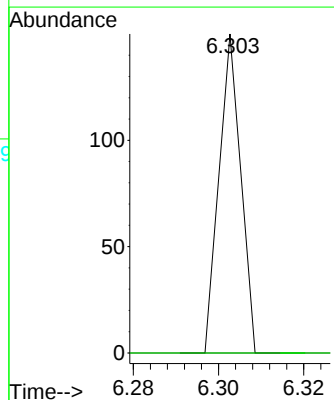
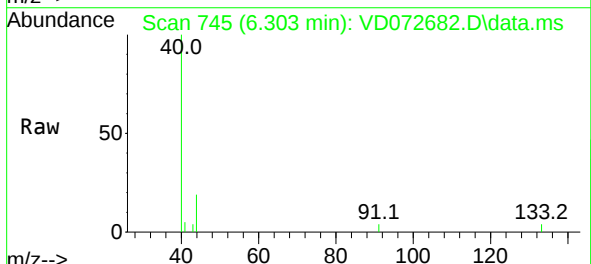
Instrument :
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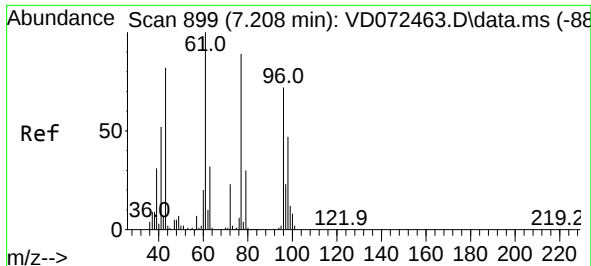
Tgt Ion:	84	Resp:	8371
Ion	Ratio	Lower	Upper
84	100		
49	95.5	112.8	169.2#
51	36.3	32.6	48.8
86	63.1	47.9	71.9



#23
Vinyl Acetate
Concen: 6.300 ug/l
RT: 6.303 min Scan# 745
Delta R.T. -0.000 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Tgt Ion:	43	Resp:	53
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.1	10.7#





#25

2-Butanone

Concen: 5.276 ug/l

RT: 7.203 min Scan# 899

Delta R.T. -0.006 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

Instrument :

MSVOA_D

ClientSampleId :

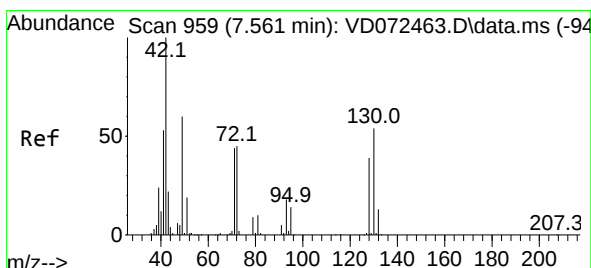
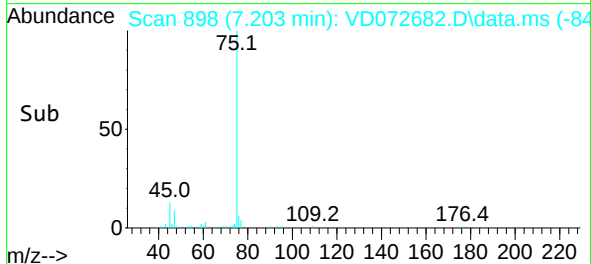
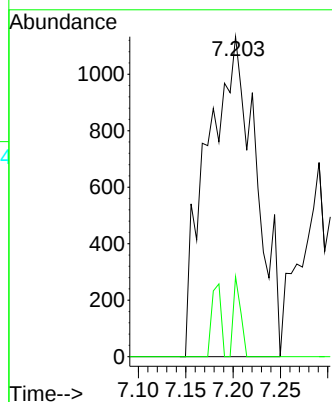
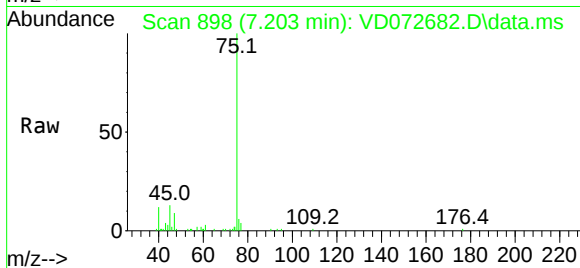
VIBLK

Tgt Ion: 43 Resp: 4056

Ion Ratio Lower Upper

43 100

72 25.0 18.6 27.8



#29

Tetrahydrofuran

Concen: 1.049 ug/l

RT: 7.567 min Scan# 960

Delta R.T. 0.006 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

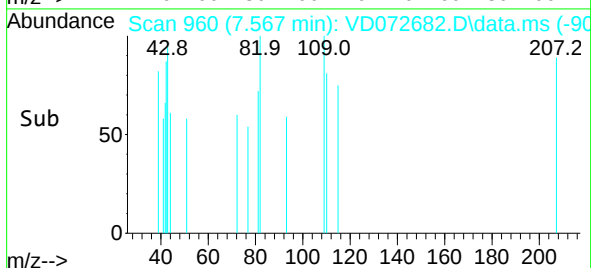
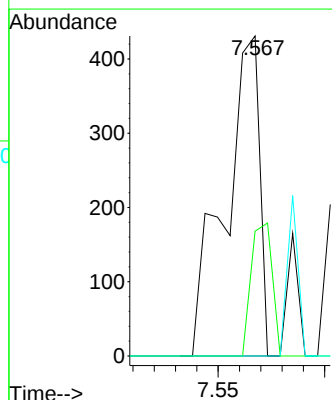
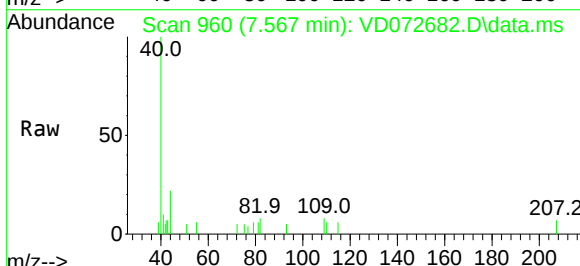
Tgt Ion: 42 Resp: 487

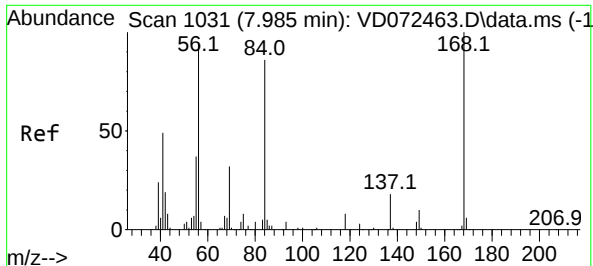
Ion Ratio Lower Upper

42 100

72 25.1 30.7 46.1#

71 0.0 28.6 43.0#

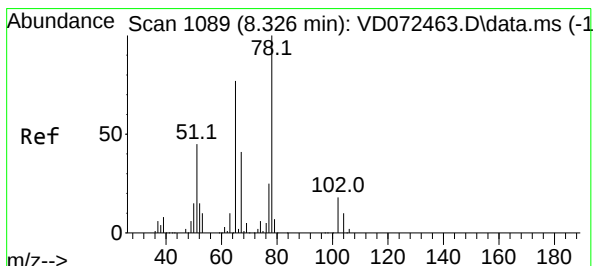
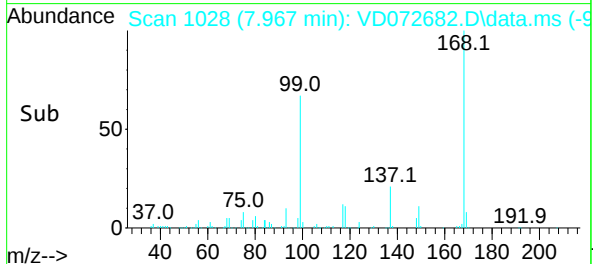
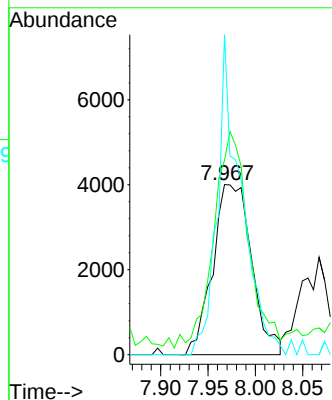
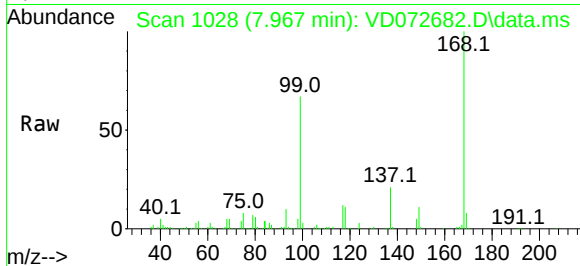




#31
Cyclohexane
Concen: 2.948 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.018 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

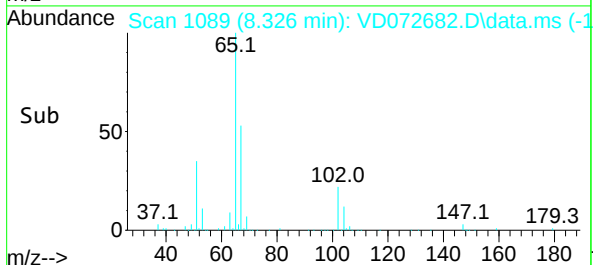
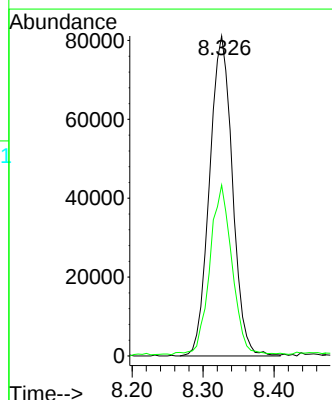
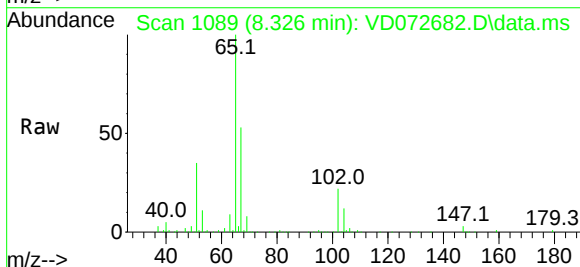
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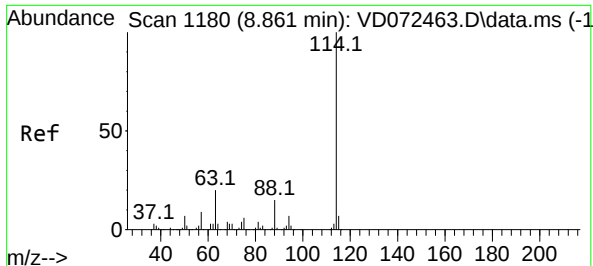
Tgt Ion: 56 Resp: 11491
Ion Ratio Lower Upper
56 100
69 105.9 25.4 38.2#
84 188.1 63.0 94.4#



#33
1,2-Dichloroethane-d4
Concen: 60.915 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Tgt Ion: 65 Resp: 181580
Ion Ratio Lower Upper
65 100
67 51.3 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

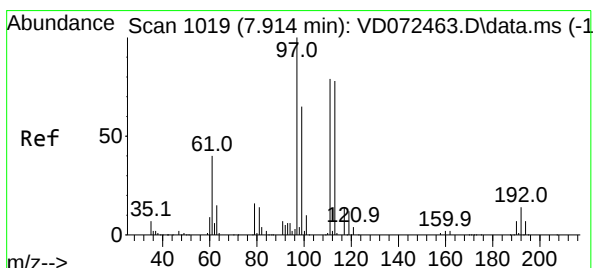
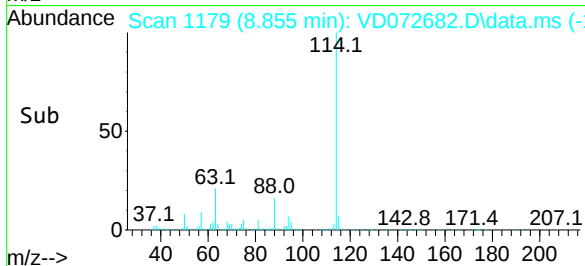
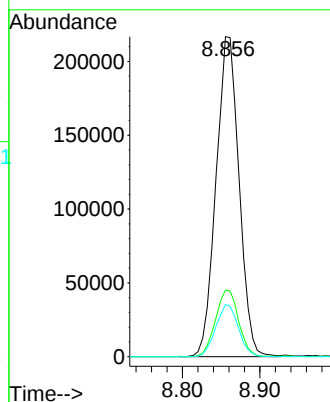
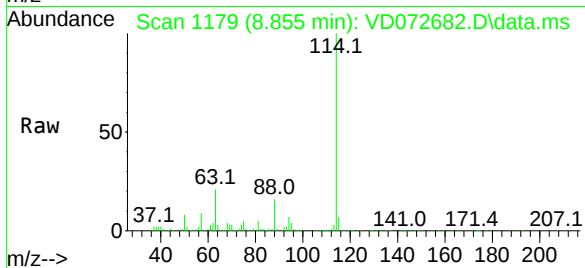
Tgt Ion:114 Resp: 447609

Ion Ratio Lower Upper

114 100

63 20.7 0.0 46.6

88 16.3 0.0 33.2



#35

Dibromofluoromethane

Concen: 43.163 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

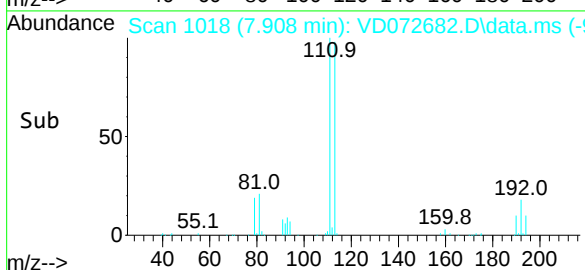
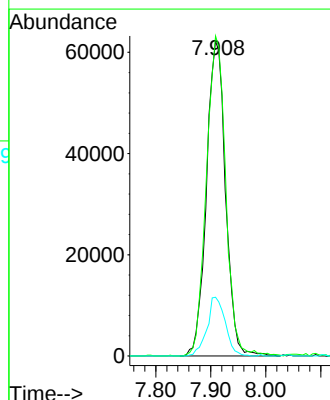
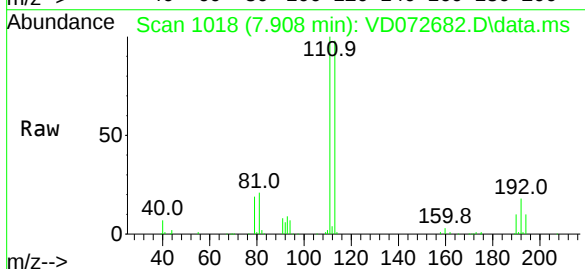
Tgt Ion:113 Resp: 150146

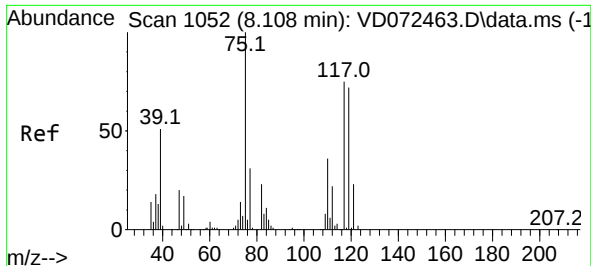
Ion Ratio Lower Upper

113 100

111 103.3 83.8 125.6

192 17.9 14.6 21.8





#36

1,1-Dichloropropene

Concen: 5.873 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

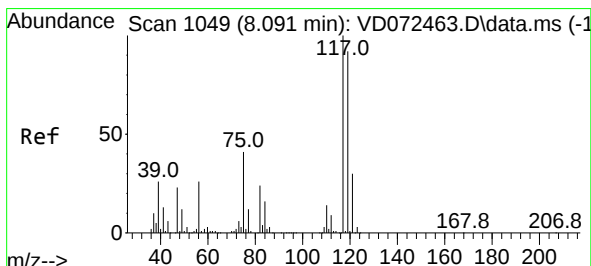
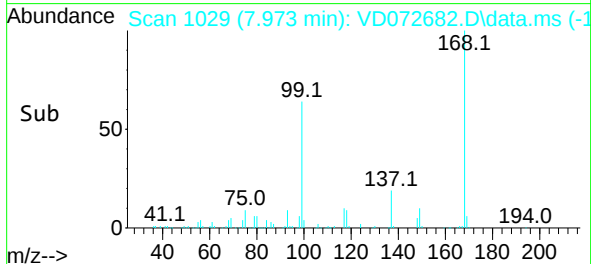
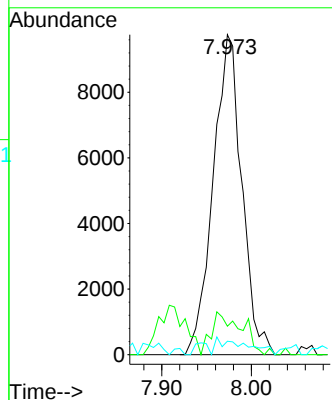
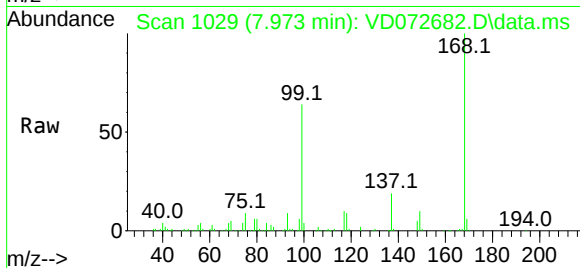
Tgt Ion: 75 Resp: 21594

Ion Ratio Lower Upper

75 100

110 13.9 16.4 49.1#

77 5.5 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 5.817 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.112 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

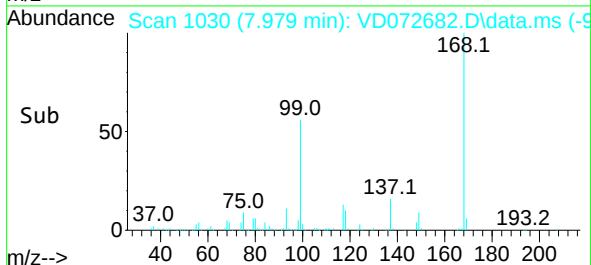
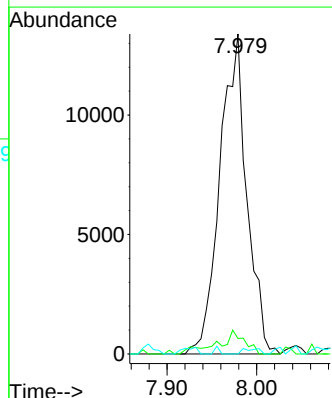
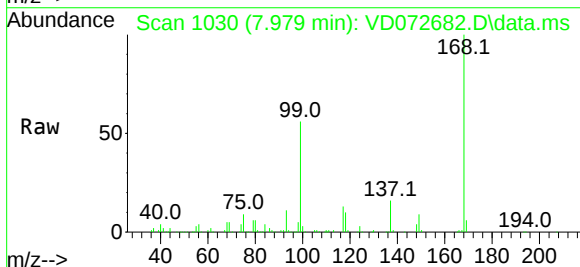
Tgt Ion: 117 Resp: 27875

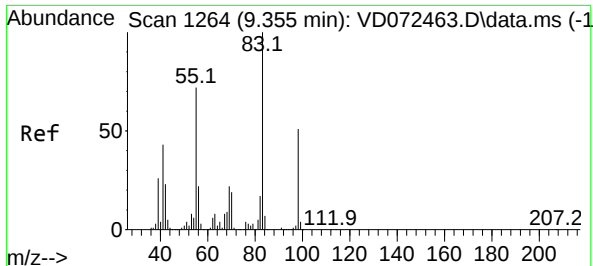
Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.6#

121 0.0 24.5 36.7#





#39

Methylcyclohexane

Concen: 7.752 ug/l

RT: 9.350 min Scan# 11

Delta R.T. -0.005 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

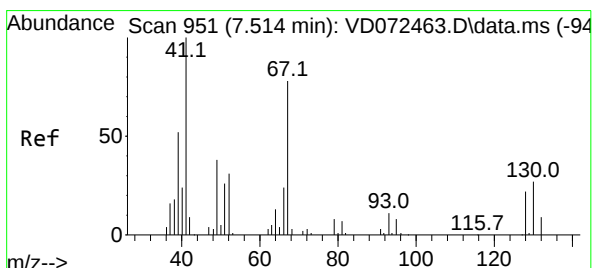
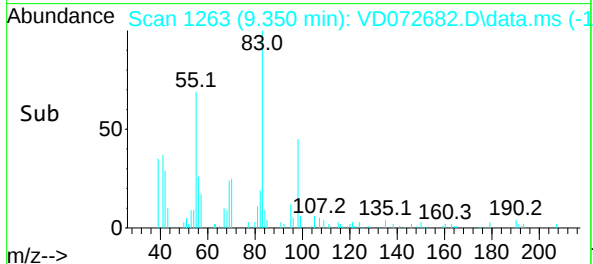
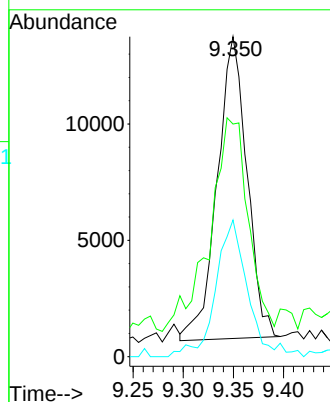
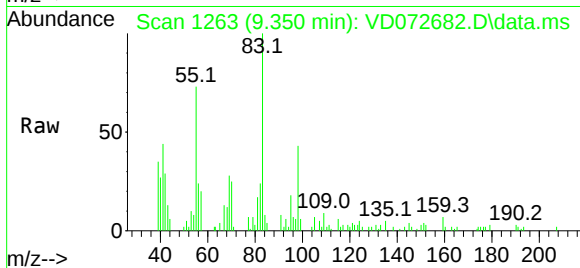
Tgt Ion: 83 Resp: 26779

Ion Ratio Lower Upper

83 100

55 61.7 63.2 94.8#

98 43.9 38.2 57.4



#41

Methacrylonitrile

Concen: 2.784 ug/l

RT: 7.532 min Scan# 954

Delta R.T. 0.018 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

Tgt Ion: 41 Resp: 1254

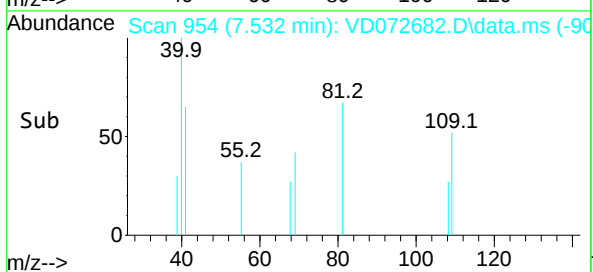
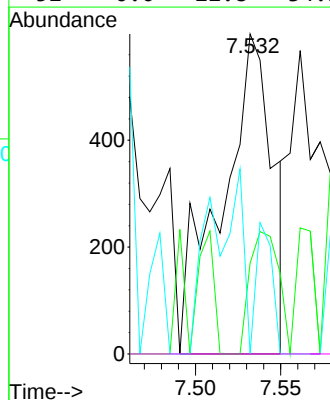
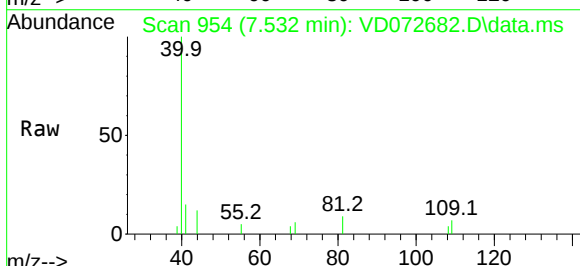
Ion Ratio Lower Upper

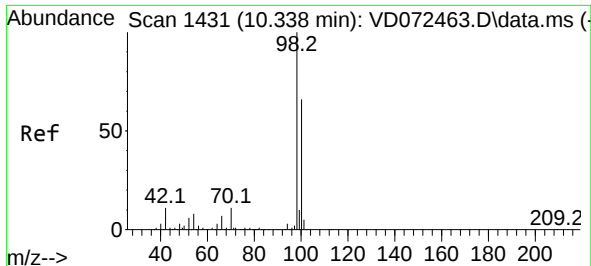
41 100

39 21.7 44.6 67.0#

67 35.4 48.2 72.4#

52 0.0 22.8 34.2#

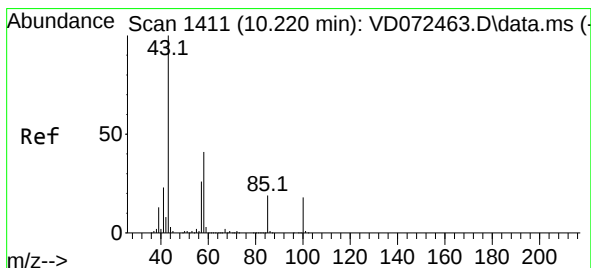
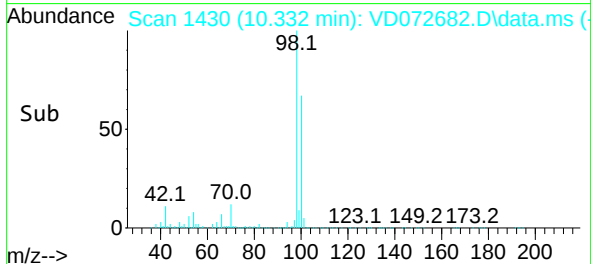
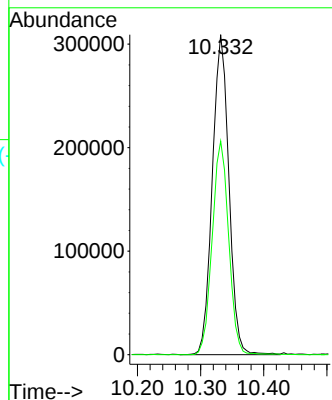
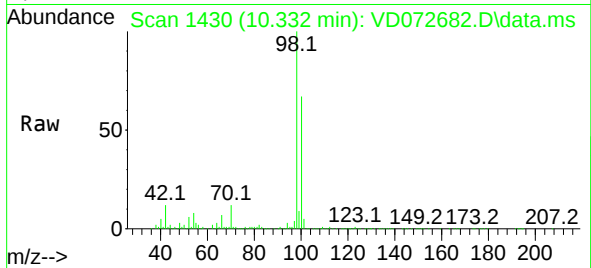




#50
Toluene-d8
Concen: 46.497 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

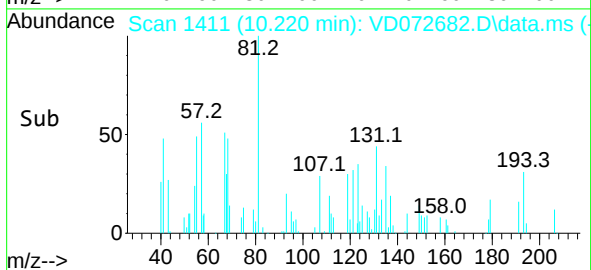
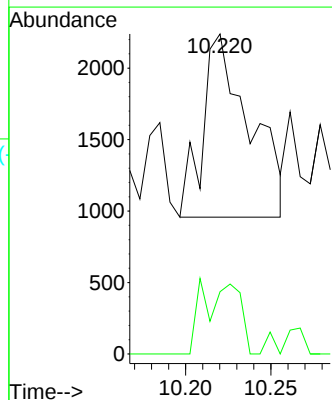
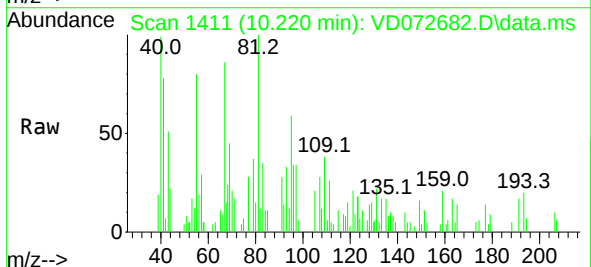
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

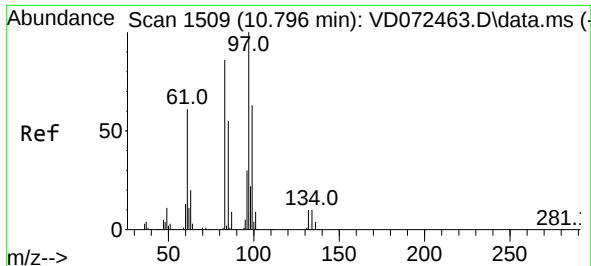
Tgt Ion: 98 Resp: 562228
Ion Ratio Lower Upper
98 100
100 66.5 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 1.300 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Tgt Ion: 43 Resp: 2466
Ion Ratio Lower Upper
43 100
58 30.2 28.6 43.0





#55

1,1,2-Trichloroethane

Concen: 2.909 ug/l

RT: 10.767 min Scan# 1504

Delta R.T. -0.029 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

Tgt Ion: 97 Resp: 7818

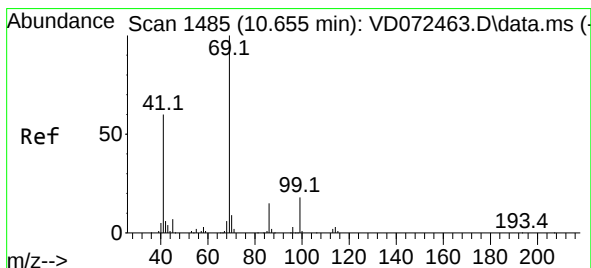
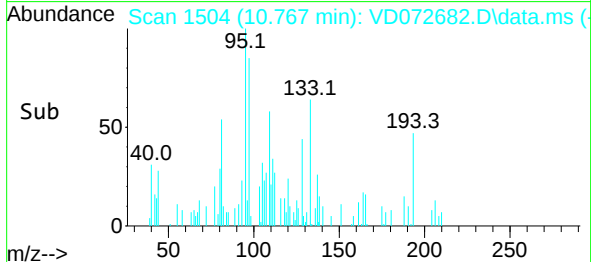
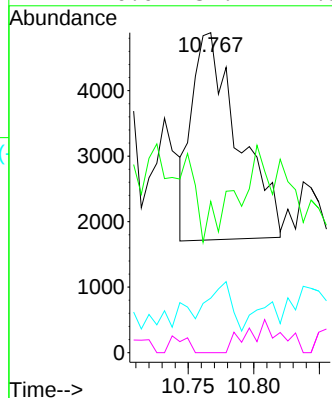
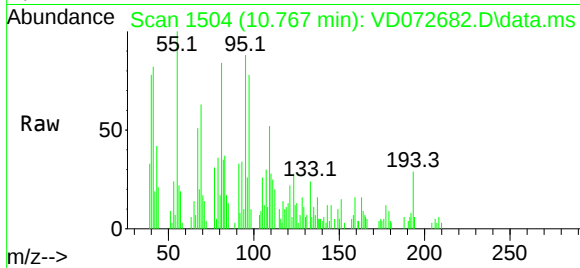
Ion Ratio Lower Upper

97 100

83 0.0 69.0 103.4#

85 12.8 42.6 63.8#

99 0.0 51.7 77.5#



#56

Ethyl methacrylate

Concen: 1.430 ug/l

RT: 10.661 min Scan# 1486

Delta R.T. 0.006 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

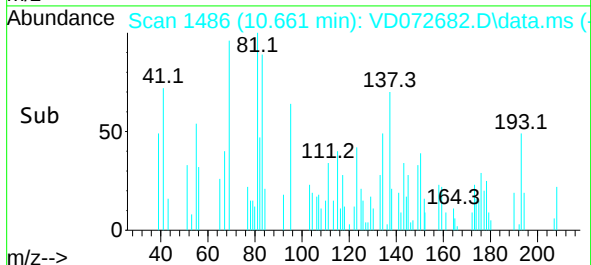
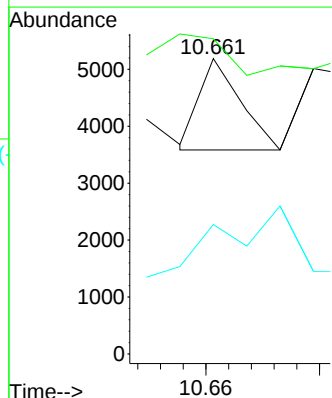
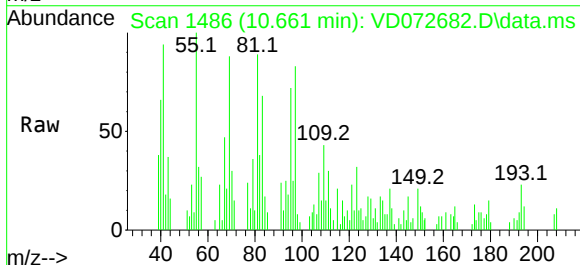
Tgt Ion: 69 Resp: 811

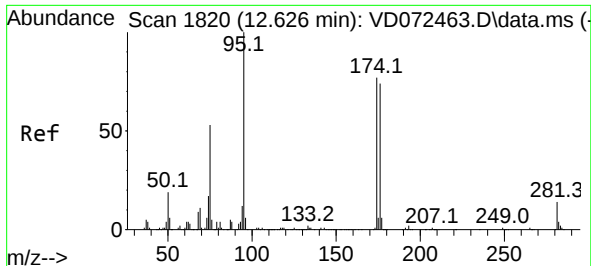
Ion Ratio Lower Upper

69 100

41 220.2 63.0 94.6#

39 0.0 33.8 50.8#

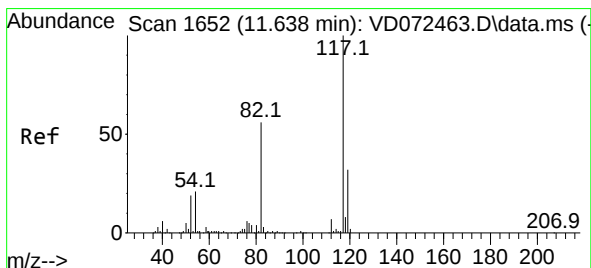
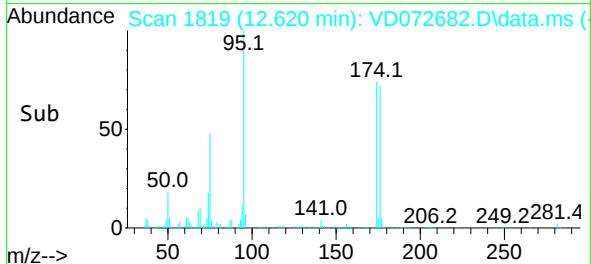
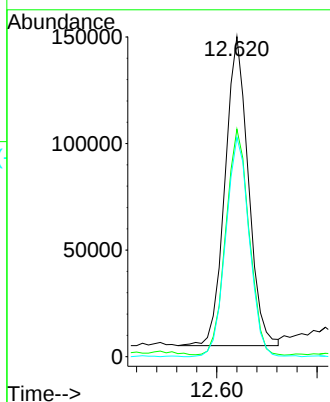
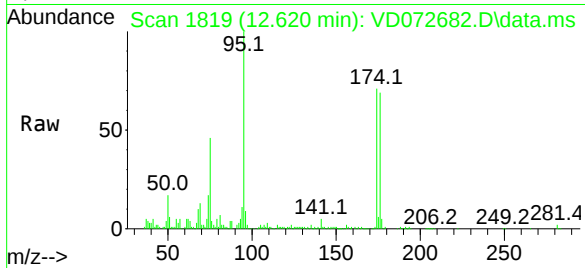




#62
4-Bromofluorobenzene
Concen: 49.551 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

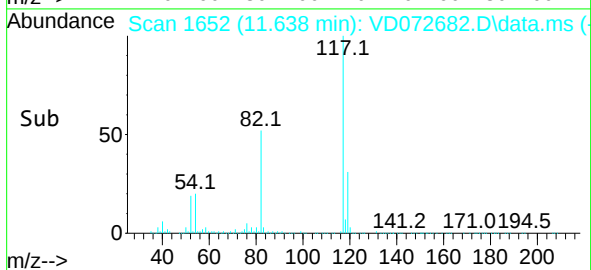
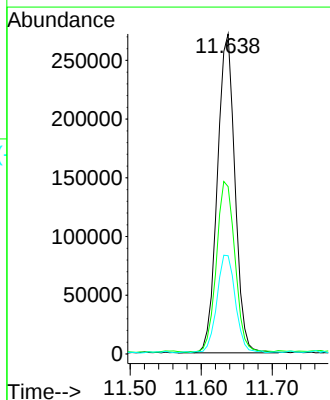
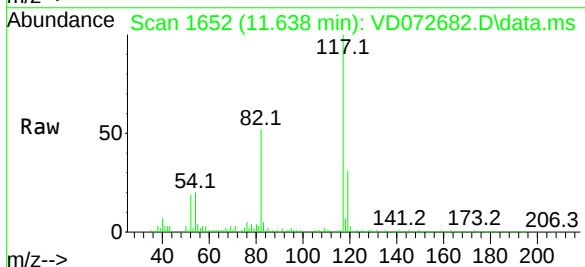
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

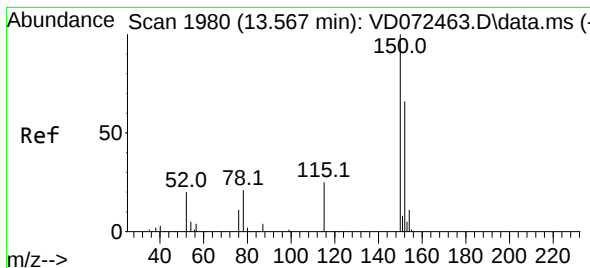
Tgt Ion: 95 Resp: 233995
Ion Ratio Lower Upper
95 100
174 73.0 0.0 152.8
176 71.7 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

Tgt Ion: 117 Resp: 465828
Ion Ratio Lower Upper
117 100
82 51.7 45.3 67.9
119 30.4 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1980

Delta R.T. -0.006 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

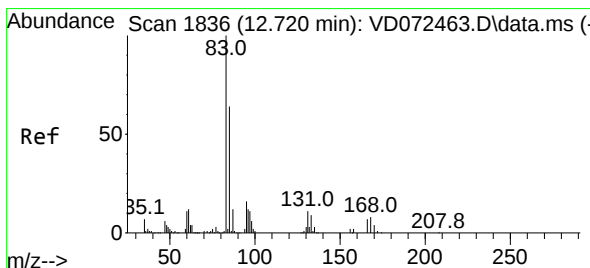
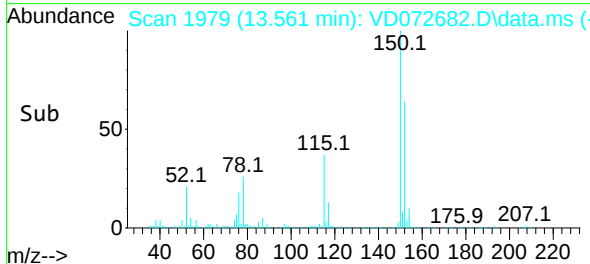
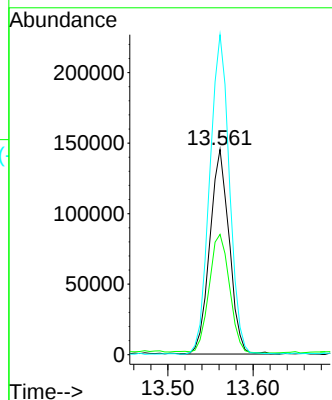
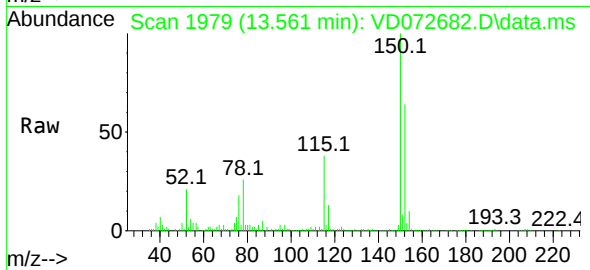
Tgt Ion:152 Resp: 229949

Ion Ratio Lower Upper

152 100

115 61.7 31.3 93.8

150 158.1 0.0 348.6



#75

1,1,2,2-Tetrachloroethane

Concen: 5.543 ug/l

RT: 12.696 min Scan# 1832

Delta R.T. -0.023 min

Lab File: VD072682.D

Acq: 21 Apr 2022 20:36

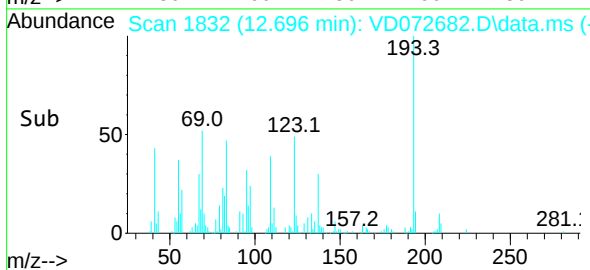
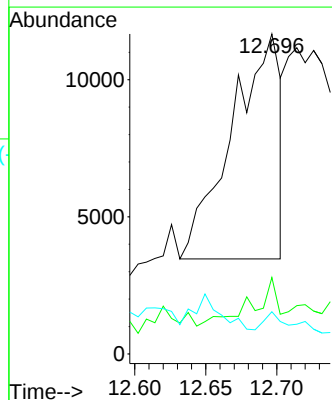
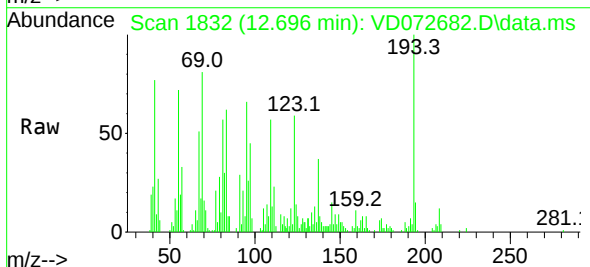
Tgt Ion: 83 Resp: 19499

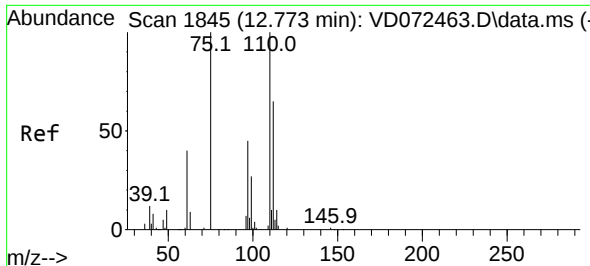
Ion Ratio Lower Upper

83 100

131 10.1 5.0 14.9

85 9.0 32.6 98.0#

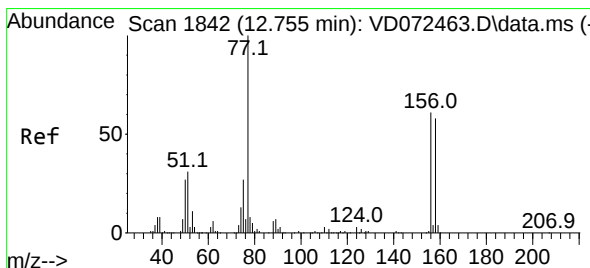
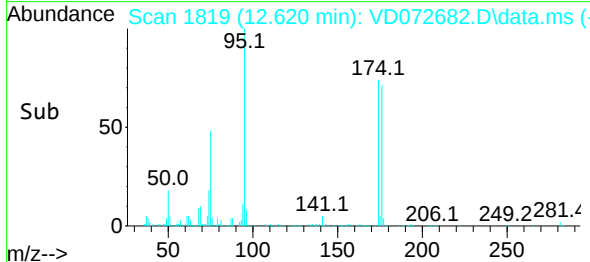
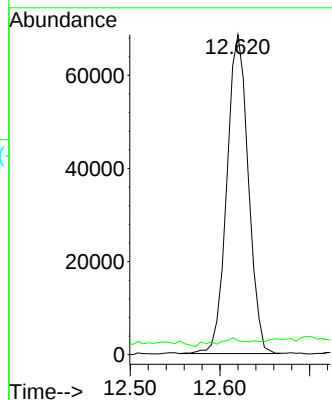
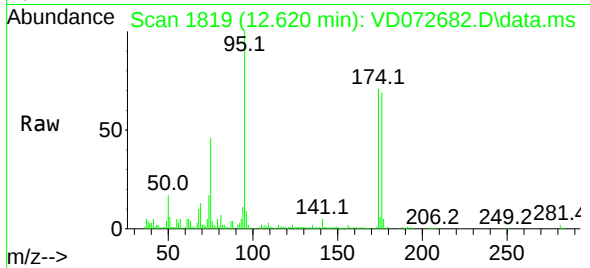




#76
1,2,3-Trichloropropane
Concen: 45.405 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

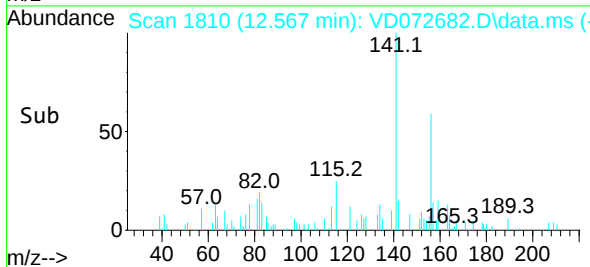
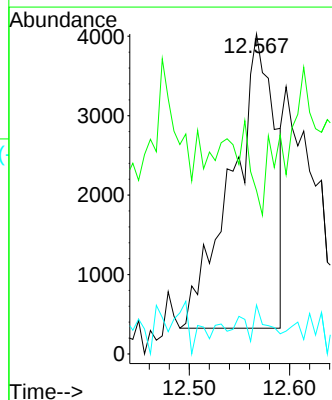
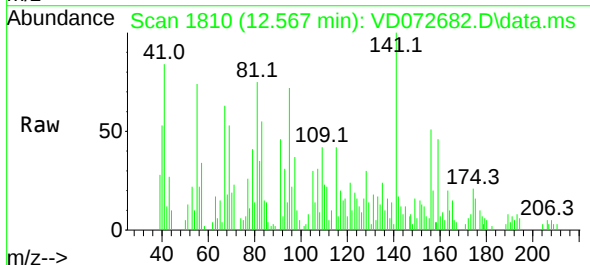
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

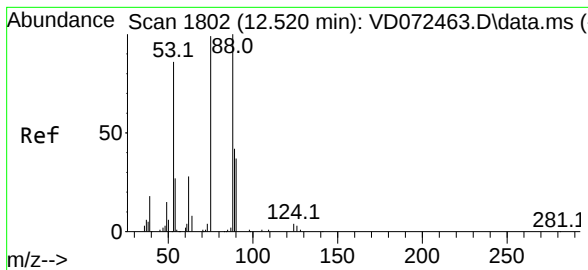
Tgt Ion: 75 Resp: 113875
Ion Ratio Lower Upper
75 100
77 3.3 0.0 0.0#



#77
Bromobenzene
Concen: 2.667 ug/l
RT: 12.567 min Scan# 1810
Delta R.T. -0.188 min
Lab File: VD072682.D
Acq: 21 Apr 2022 20:36

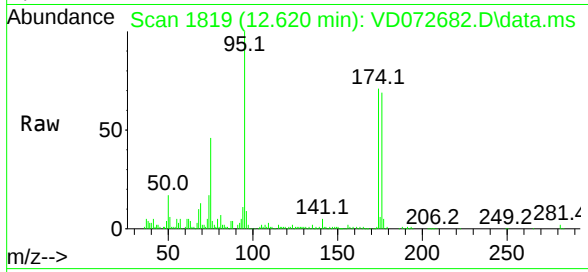
Tgt Ion: 156 Resp: 11101
Ion Ratio Lower Upper
156 100
77 0.0 102.8 308.3#
158 4.3 48.7 146.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.416 ug/l
 RT: 12.620 min Scan# 11
 Delta R.T. 0.100 min
 Lab File: VD072682.D
 Acq: 21 Apr 2022 20:36

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK



Tgt Ion: 75 Resp: 113875
 Ion Ratio Lower Upper
 75 100
 53 0.8 86.5 129.7#
 89 0.6 33.9 50.9#

