

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD080122\
 Data File : VD073914.D
 Acq On : 01 Aug 2022 14:44
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Aug 02 05:32:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D080122S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 02 05:13:57 2022
 Response via : Initial Calibration

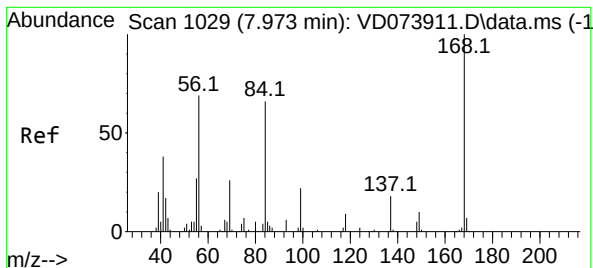
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.967	168	172472	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	306930	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	278585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	133654	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	92965	67.092	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 134.180%	
35) Dibromofluoromethane	7.909	113	105660	55.406	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 110.820%	
50) Toluene-d8	10.332	98	347733	54.133	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 108.260%	
62) 4-Bromofluorobenzene	12.620	95	128192	54.266	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 108.540%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.991	85	3272	1.300	ug/l	91
3) Chloromethane	2.209	50	3802	1.735	ug/l #	79
4) Vinyl Chloride	2.344	62	4311	1.595	ug/l	94
5) Bromomethane	2.774	94	4119	2.158	ug/l	91
6) Chloroethane	2.921	64	2544	1.338	ug/l #	57
7) Trichlorofluoromethane	3.262	101	5034	1.738	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.097	101	3319	1.933	ug/l #	71
12) 1,1-Dichloroethene	4.062	96	2666	1.752	ug/l #	68
16) Acetone	4.162	43	1889	14.778	ug/l #	46
17) Carbon Disulfide	4.409	76	10523	3.934	ug/l	98
20) Methylene Chloride	4.956	84	40712	10.131	ug/l	95
21) trans-1,2-Dichloroethene	5.468	96	2143	1.182	ug/l #	75
25) 2-Butanone	7.197	43	1061	2.521	ug/l	93
26) 2,2-Dichloropropane	7.185	77	3841	1.257	ug/l #	75
29) Tetrahydrofuran	7.562	42	250	1.016	ug/l #	65
31) Cyclohexane	7.979	56	7862	2.944	ug/l #	54
32) 1,1,1-Trichloroethane	7.897	97	3968	1.210	ug/l #	47
36) 1,1-Dichloropropene	8.103	75	3803	1.400	ug/l	97
38) Carbon Tetrachloride	8.085	117	3750	1.232	ug/l	93
39) Methylcyclohexane	9.350	83	5534	1.738	ug/l	98
51) 4-Methyl-2-Pentanone	10.220	43	2419	2.419	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.932	63	698	1.080	ug/l #	71
59) 2-Hexanone	10.973	43	1479	2.186	ug/l	79
64) Tetrachloroethene	10.867	164	2780	1.402	ug/l #	69
68) m/p-Xylenes	11.838	106	6334	1.638	ug/l	95
83) tert-Butylbenzene	13.208	119	6913	1.014	ug/l	98
85) sec-Butylbenzene	13.385	105	11112	1.077	ug/l	98
89) n-Butylbenzene	13.826	91	8677	1.086	ug/l	94
94) Hexachlorobutadiene	15.243	225	1595	1.219	ug/l	93

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D080122S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 02 05:13:57 2022
Response via : Initial Calibration

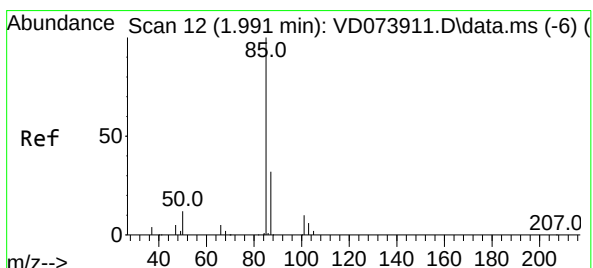
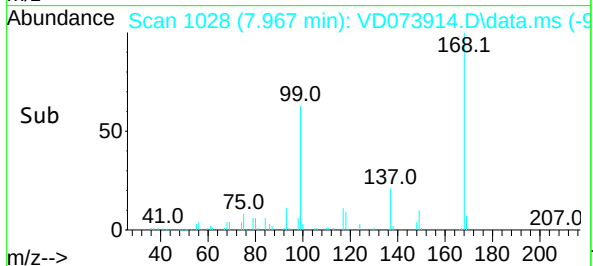
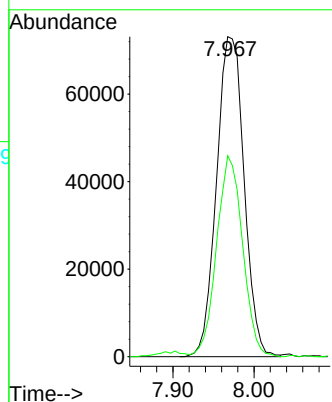
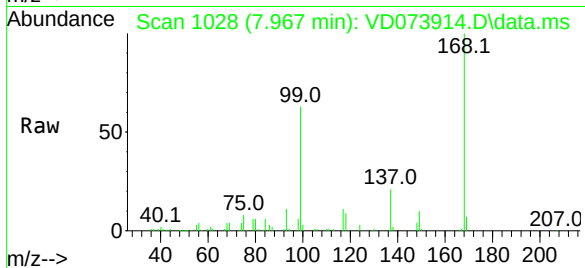




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.967 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

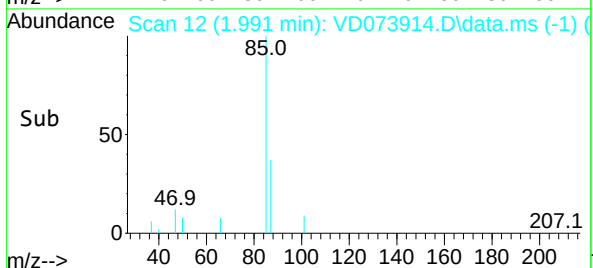
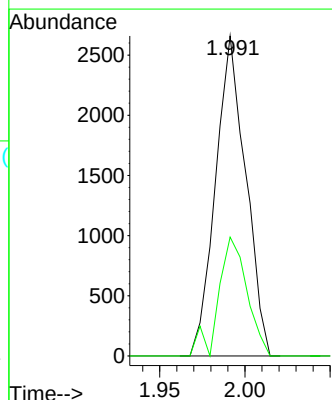
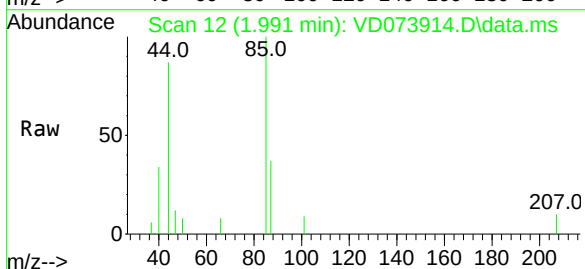
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

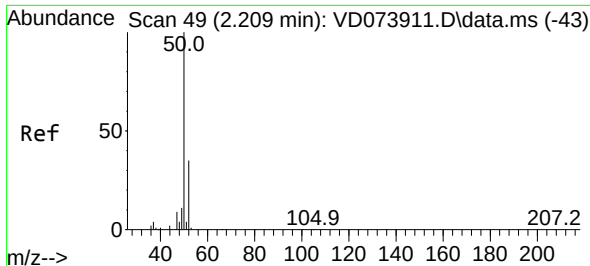
Tgt Ion:168 Resp: 172472
Ion Ratio Lower Upper
168 100
99 62.8 52.2 78.4



#2
Dichlorodifluoromethane
Concen: 1.300 ug/l
RT: 1.991 min Scan# 12
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 85 Resp: 3272
Ion Ratio Lower Upper
85 100
87 37.2 16.1 48.2

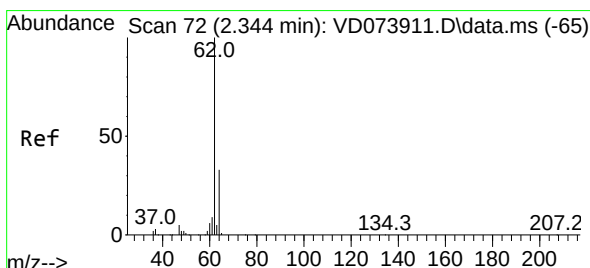
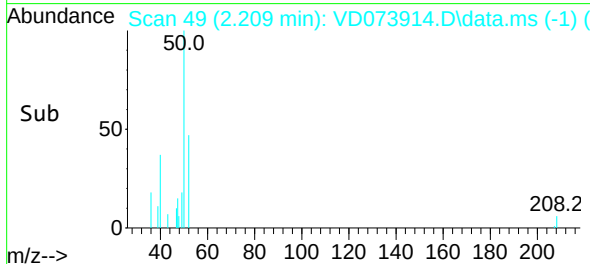
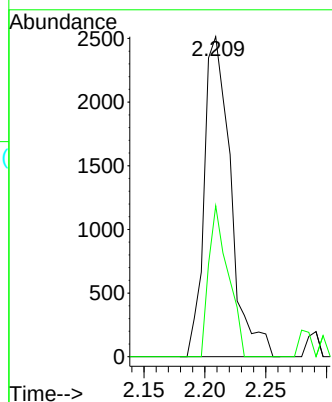
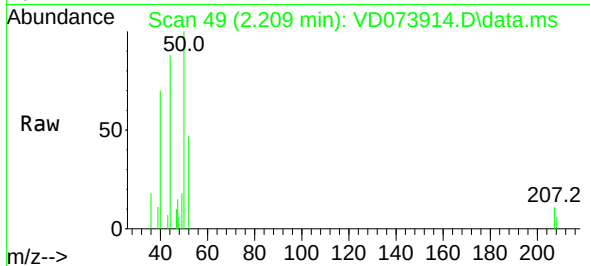




#3
Chloromethane
Concen: 1.735 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

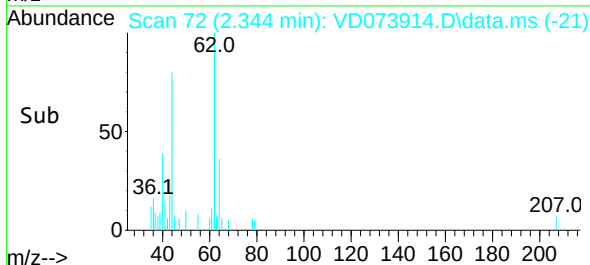
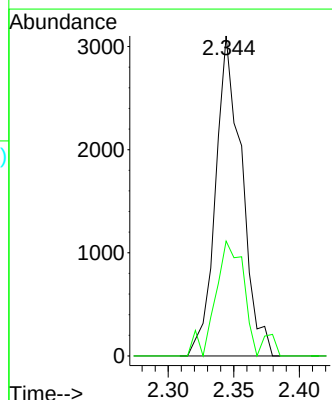
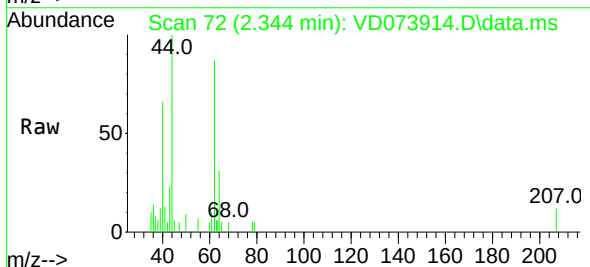
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

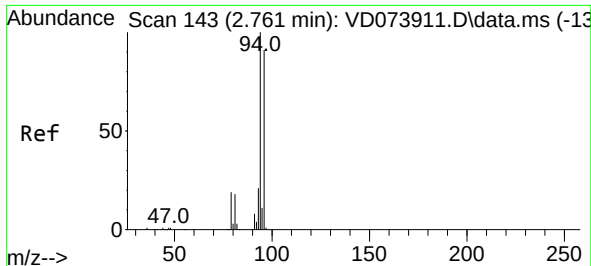
Tgt Ion: 50 Resp: 3802
Ion Ratio Lower Upper
50 100
52 47.1 28.2 42.2#



#4
Vinyl Chloride
Concen: 1.595 ug/l
RT: 2.344 min Scan# 72
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 62 Resp: 4311
Ion Ratio Lower Upper
62 100
64 35.9 26.1 39.1

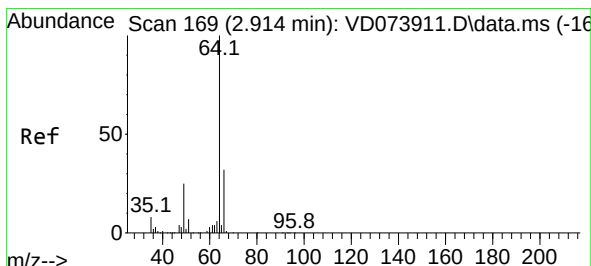
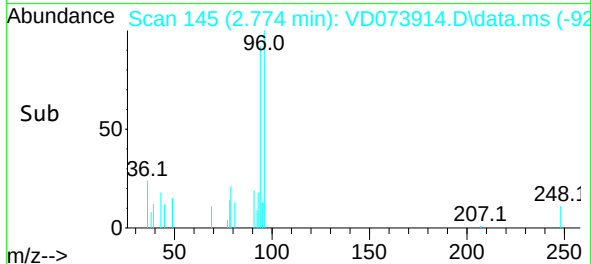
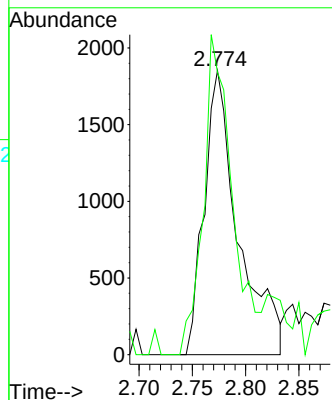
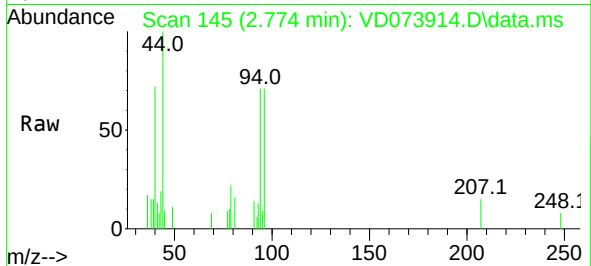




#5
Bromomethane
Concen: 2.158 ug/l
RT: 2.774 min Scan# 143
Delta R.T. 0.012 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

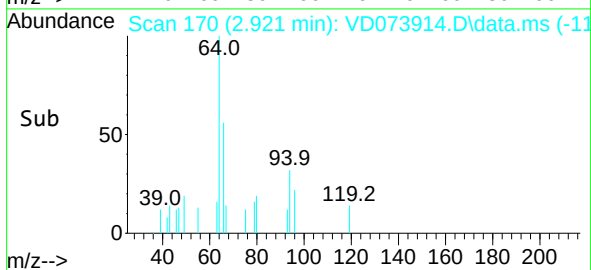
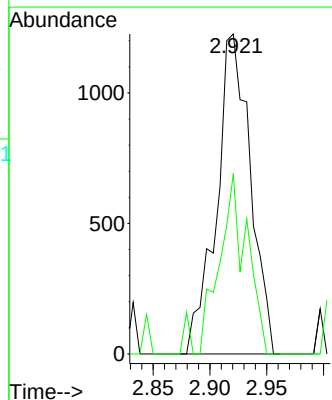
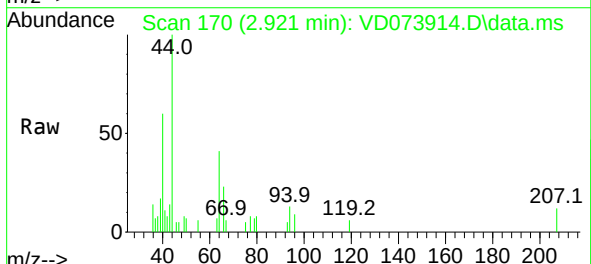
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

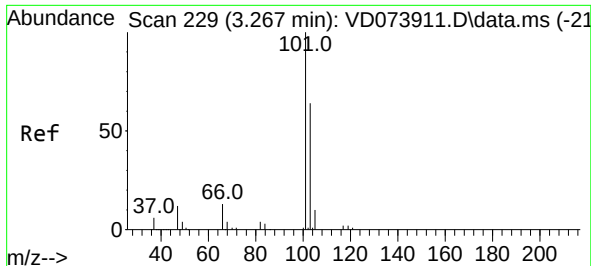
Tgt Ion: 94 Resp: 4119
Ion Ratio Lower Upper
94 100
96 99.4 72.7 109.1



#6
Chloroethane
Concen: 1.338 ug/l
RT: 2.921 min Scan# 170
Delta R.T. 0.006 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 64 Resp: 2544
Ion Ratio Lower Upper
64 100
66 56.4 25.8 38.6#

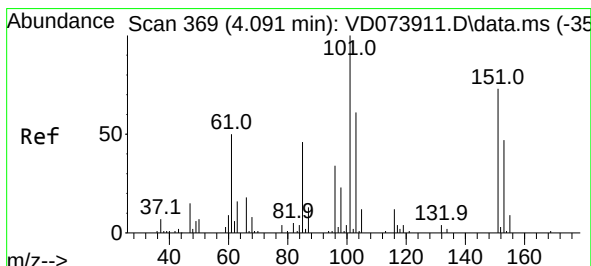
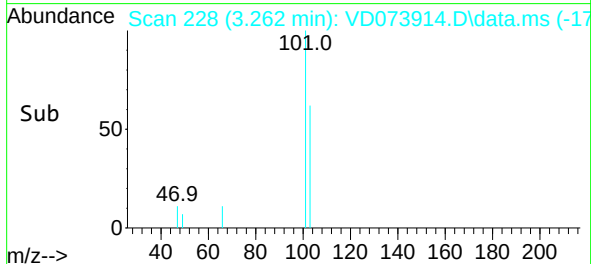
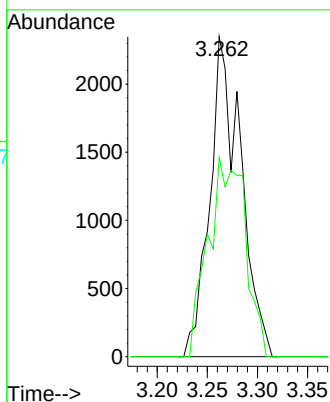
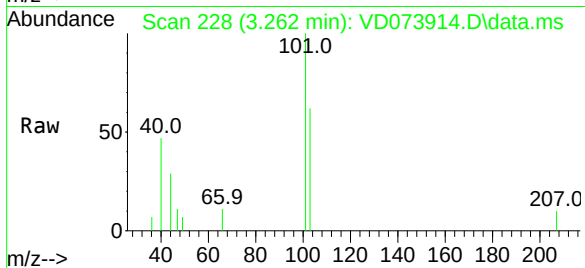




#7
Trichlorofluoromethane
Concen: 1.738 ug/l
RT: 3.262 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

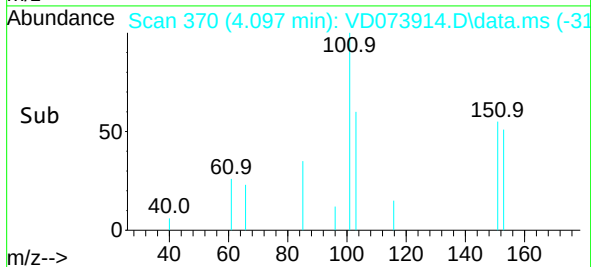
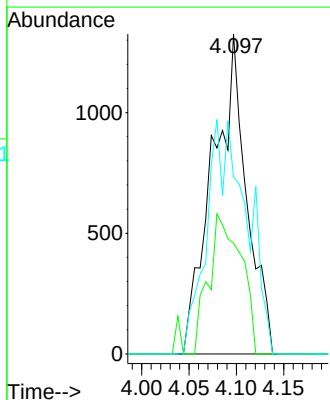
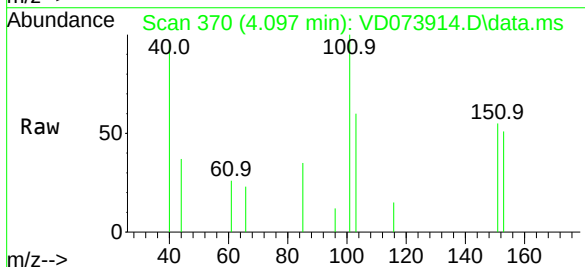
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

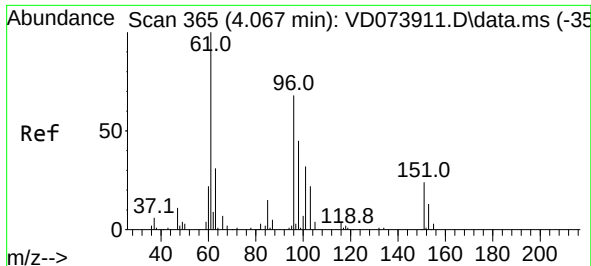
Tgt Ion:101 Resp: 5034
Ion Ratio Lower Upper
101 100
103 62.2 51.4 77.0



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.933 ug/l
RT: 4.097 min Scan# 370
Delta R.T. 0.006 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion:101 Resp: 3319
Ion Ratio Lower Upper
101 100
85 41.6 36.5 54.7
151 37.5 58.9 88.3#





#12

1,1-Dichloroethene

Concen: 1.752 ug/l

RT: 4.062 min Scan# 30

Delta R.T. -0.006 min

Lab File: VD073914.D

Acq: 01 Aug 2022 14:44

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

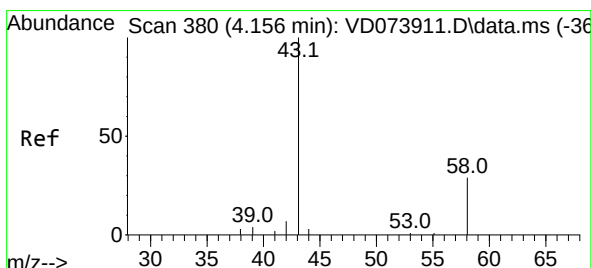
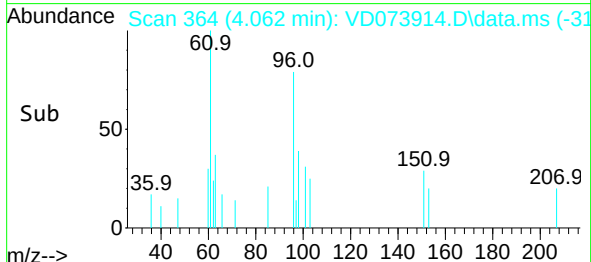
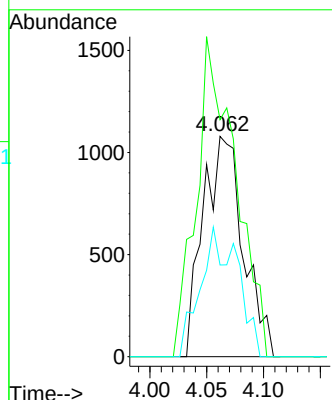
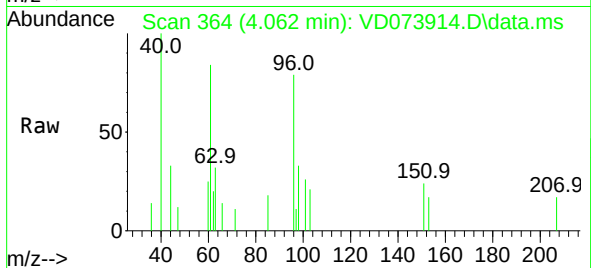
Tgt Ion: 96 Resp: 2666

Ion Ratio Lower Upper

96 100

61 107.5 118.5 177.7#

98 41.6 53.2 79.8#



#16

Acetone

Concen: 14.778 ug/l

RT: 4.162 min Scan# 381

Delta R.T. 0.006 min

Lab File: VD073914.D

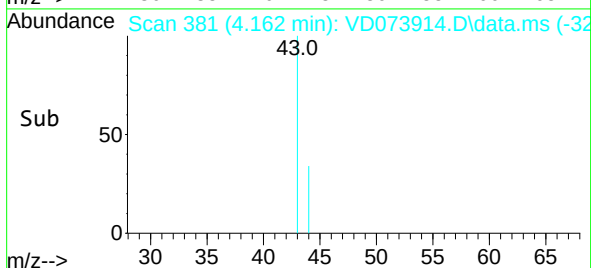
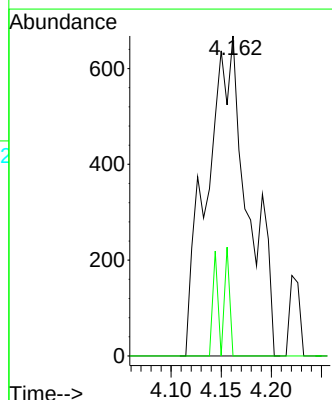
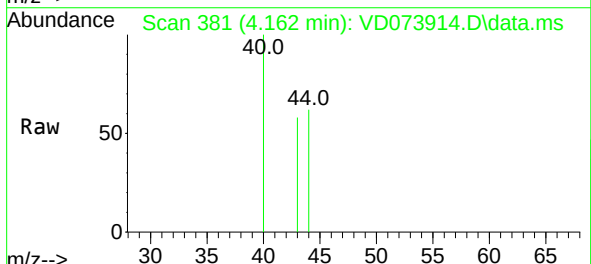
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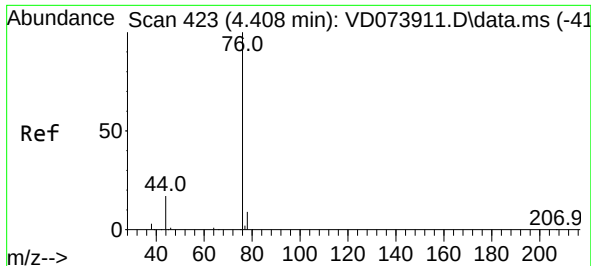
Tgt Ion: 43 Resp: 1889

Ion Ratio Lower Upper

43 100

58 0.0 23.0 34.6#

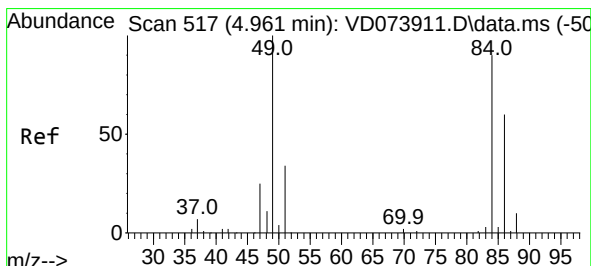
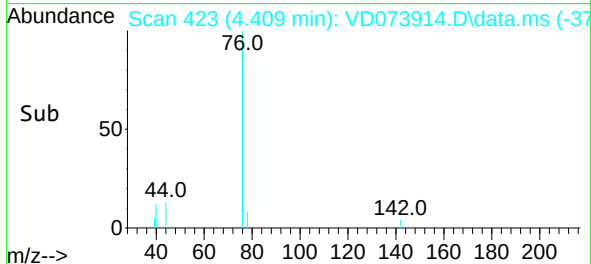
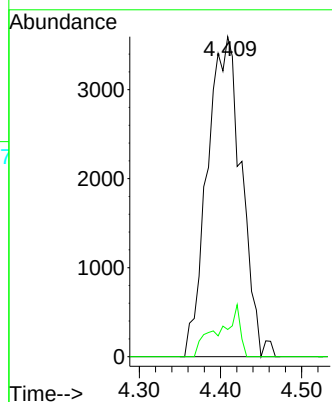
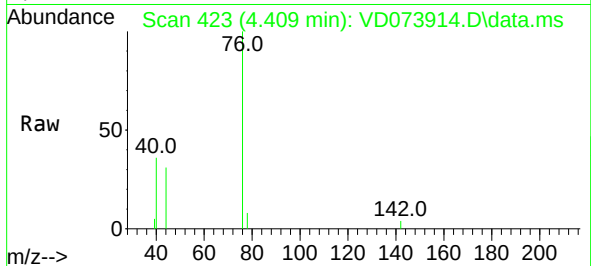




#17
Carbon Disulfide
Concen: 3.934 ug/l
RT: 4.409 min Scan# 41
Delta R.T. 0.001 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

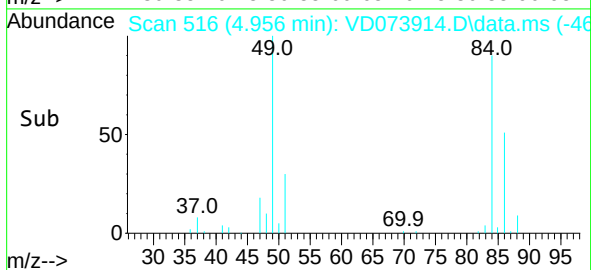
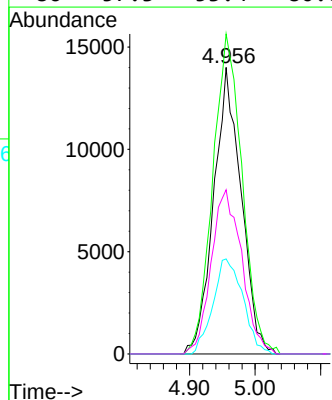
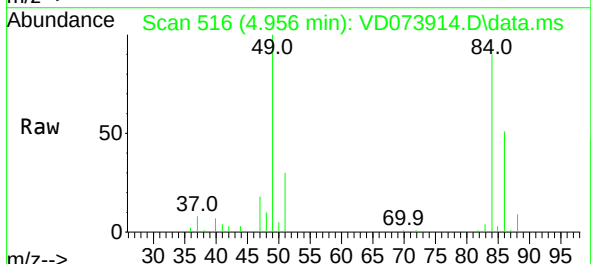
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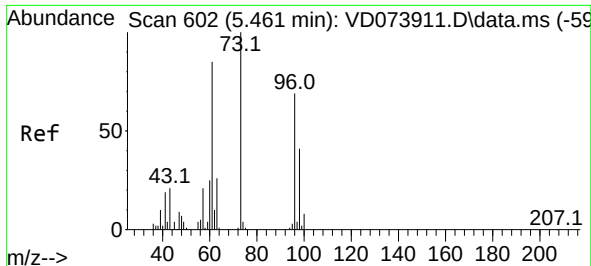
Tgt Ion: 76 Resp: 10523
Ion Ratio Lower Upper
76 100
78 8.5 7.3 10.9



#20
Methylene Chloride
Concen: 10.131 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.005 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 84 Resp: 40712
Ion Ratio Lower Upper
84 100
49 111.7 89.1 133.7
51 33.2 29.8 44.8
86 57.3 53.4 80.0

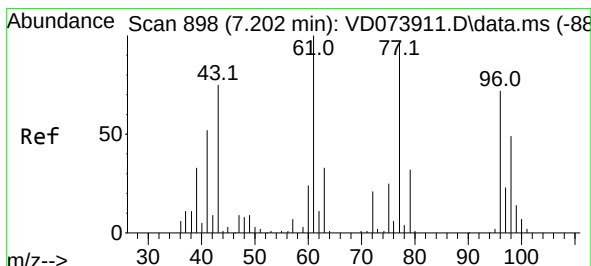
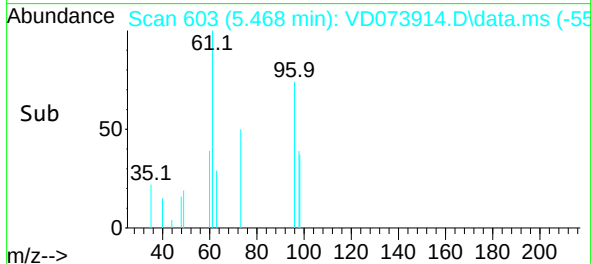
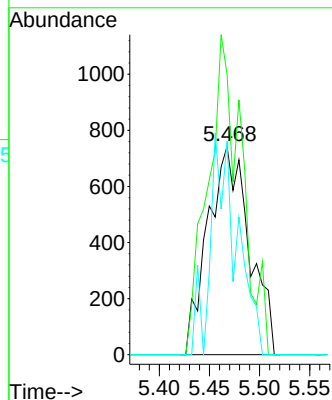
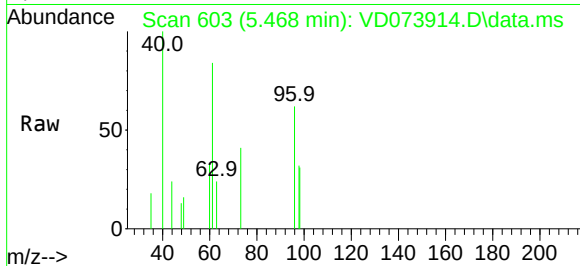




#21
trans-1,2-Dichloroethene
Concen: 1.182 ug/l
RT: 5.468 min Scan# 602
Delta R.T. 0.006 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

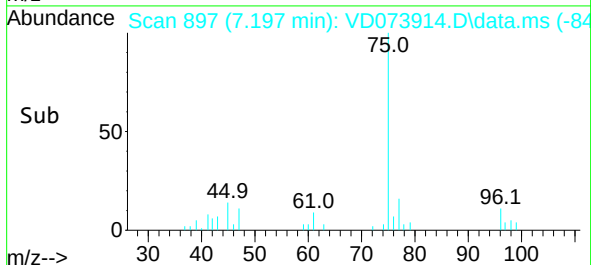
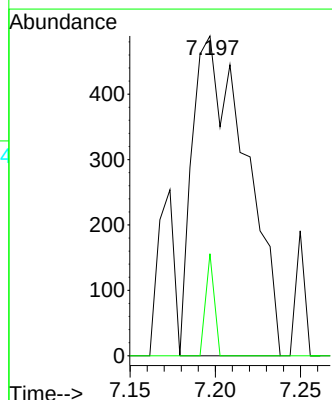
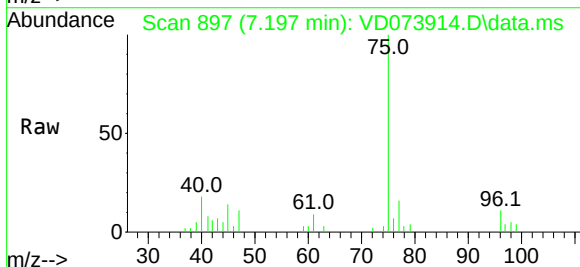
Instrument :
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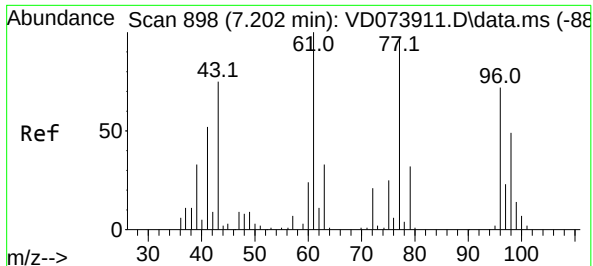
Tgt Ion: 96 Resp: 2143
Ion Ratio Lower Upper
96 100
61 134.5 98.7 148.1
98 102.4 47.3 70.9#



#25
2-Butanone
Concen: 2.521 ug/l
RT: 7.197 min Scan# 897
Delta R.T. -0.006 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 43 Resp: 1061
Ion Ratio Lower Upper
43 100
72 31.9 22.7 34.1





#26

2,2-Dichloropropane

Concen: 1.257 ug/l

RT: 7.185 min Scan# 898

Delta R.T. -0.017 min

Lab File: VD073914.D

Acq: 01 Aug 2022 14:44

Instrument :

MSVOA_D

ClientSampleId :

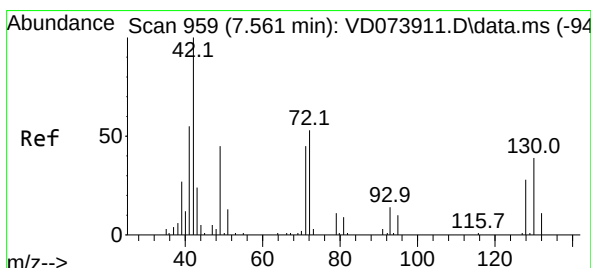
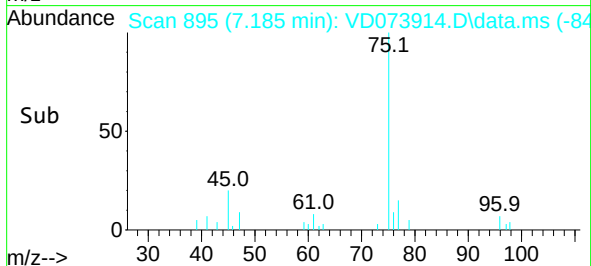
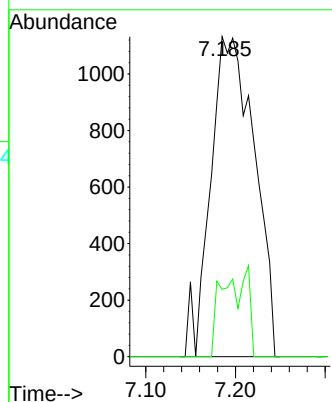
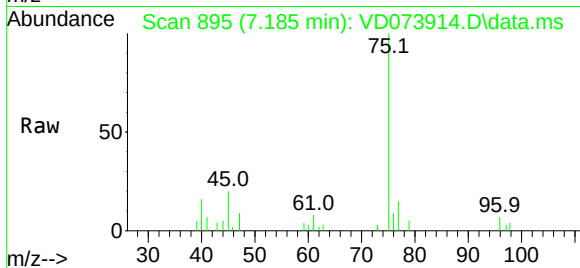
VIBLK

Tgt Ion: 77 Resp: 3841

Ion Ratio Lower Upper

77 100

97 11.0 11.6 34.8#



#29

Tetrahydrofuran

Concen: 1.016 ug/l

RT: 7.562 min Scan# 959

Delta R.T. 0.000 min

Lab File: VD073914.D

Acq: 01 Aug 2022 14:44

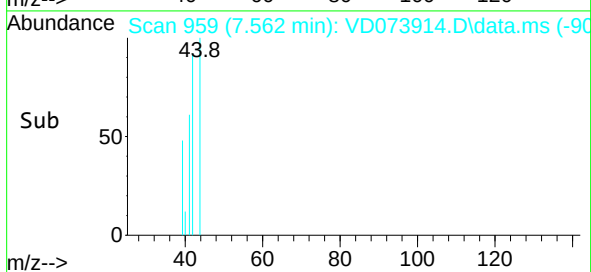
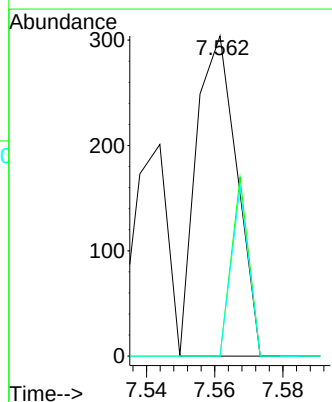
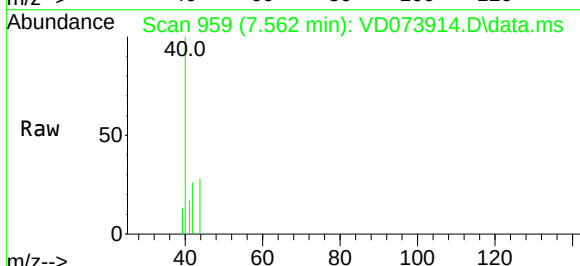
Tgt Ion: 42 Resp: 250

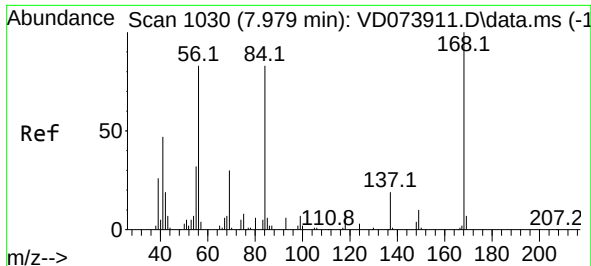
Ion Ratio Lower Upper

42 100

72 24.0 39.0 58.4#

71 22.8 35.7 53.5#

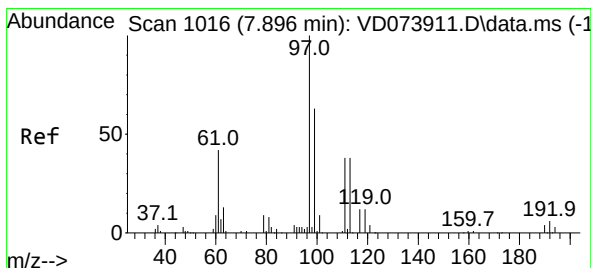
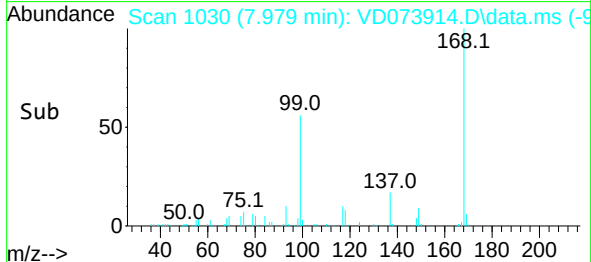
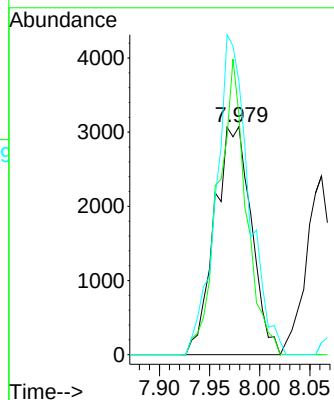
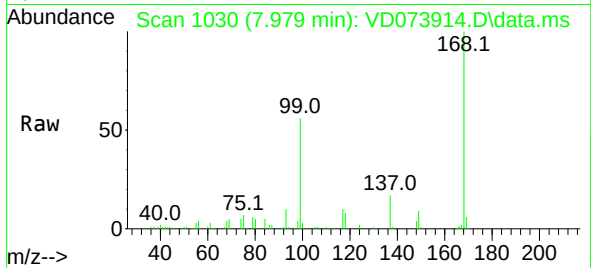




#31
Cyclohexane
Concen: 2.944 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

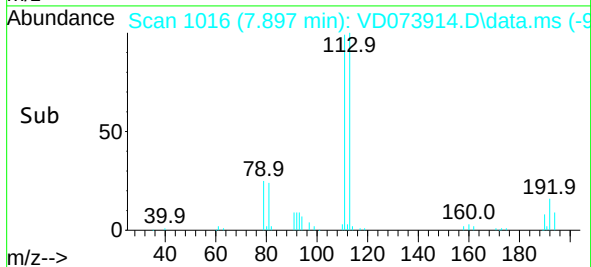
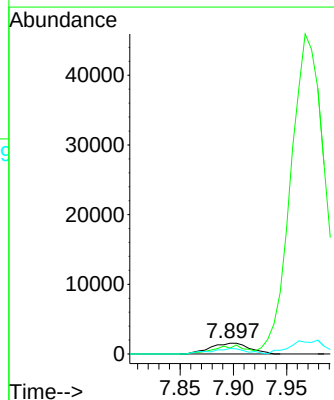
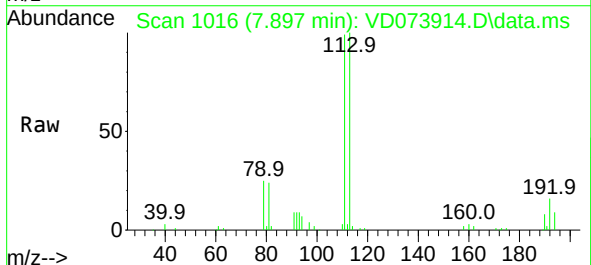
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

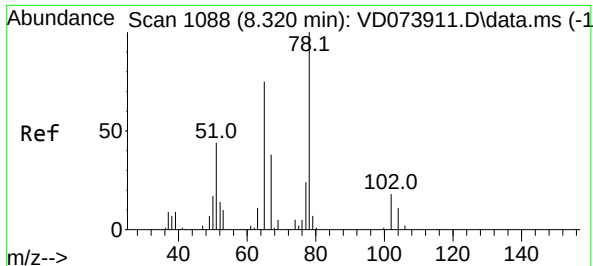
Tgt Ion: 56 Resp: 7862
Ion Ratio Lower Upper
56 100
69 105.3 29.2 43.8#
84 120.0 80.0 120.0#



#32
1,1,1-Trichloroethane
Concen: 1.210 ug/l
RT: 7.897 min Scan# 1016
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 97 Resp: 3968
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 46.0 33.4 50.0





#33

1,2-Dichloroethane-d4

Concen: 67.092 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD073914.D

Acq: 01 Aug 2022 14:44

Instrument :

MSVOA_D

ClientSampleId :

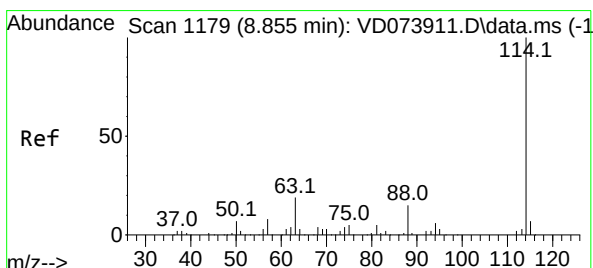
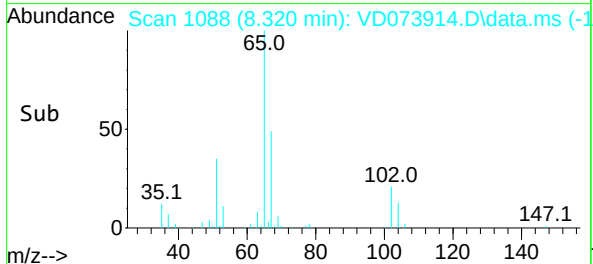
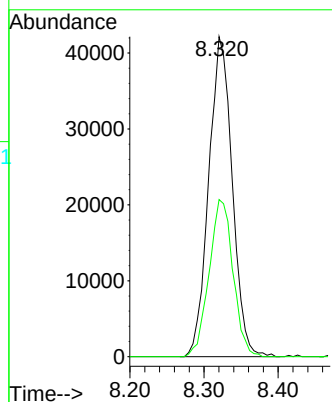
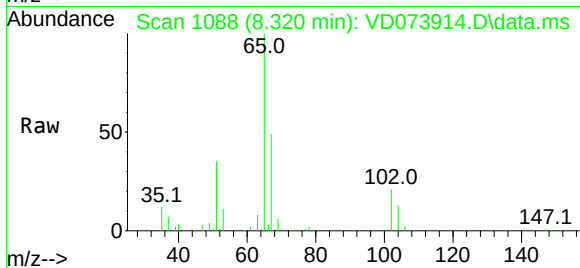
VIBLK

Tgt Ion: 65 Resp: 92965

Ion Ratio Lower Upper

65 100

67 49.9 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073914.D

Acq: 01 Aug 2022 14:44

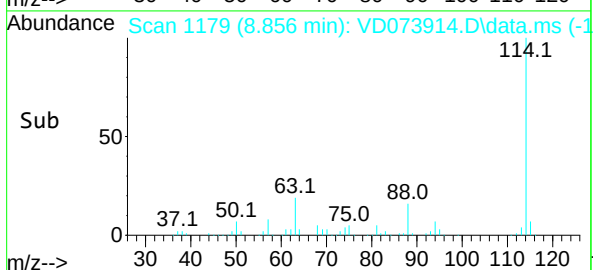
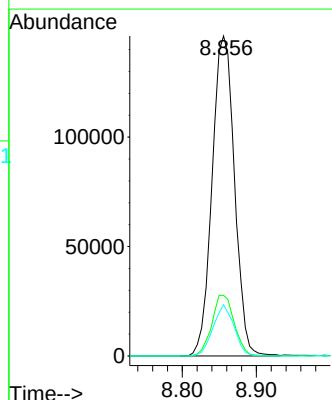
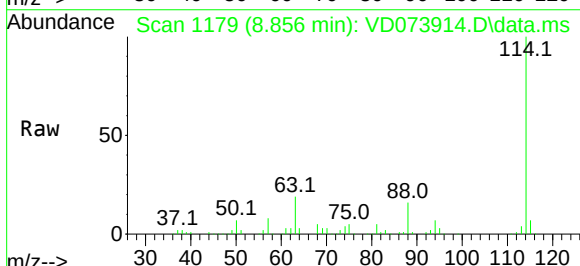
Tgt Ion: 114 Resp: 306930

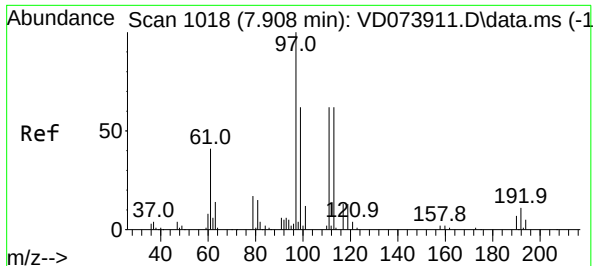
Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.6

88 16.0 0.0 30.2





#35

Dibromofluoromethane

Concen: 55.406 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073914.D

Acq: 01 Aug 2022 14:44

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

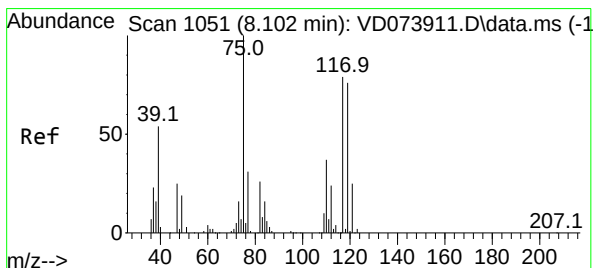
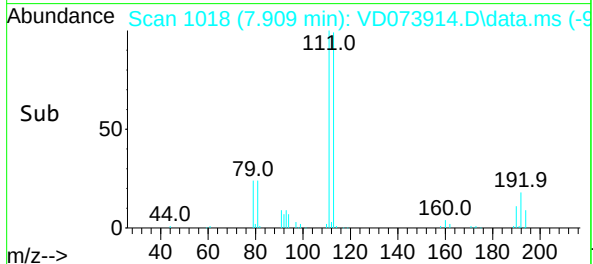
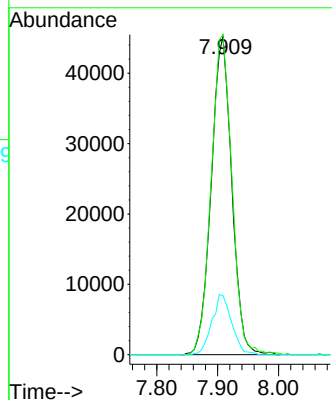
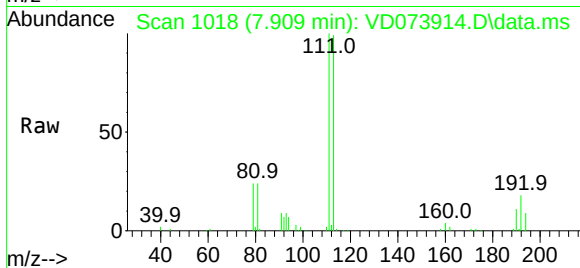
Tgt Ion:113 Resp: 105660

Ion Ratio Lower Upper

113 100

111 102.0 83.7 125.5

192 18.3 15.0 22.6



#36

1,1-Dichloropropene

Concen: 1.400 ug/l

RT: 8.103 min Scan# 1051

Delta R.T. 0.000 min

Lab File: VD073914.D

Acq: 01 Aug 2022 14:44

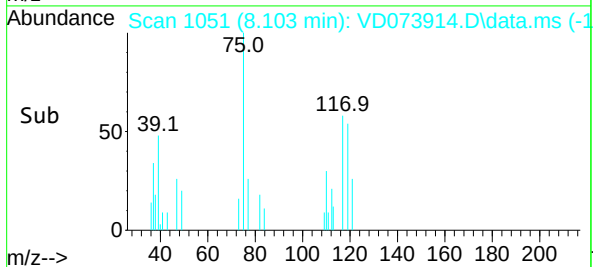
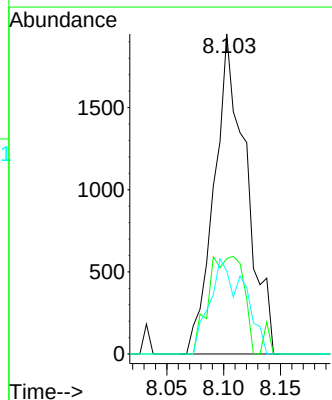
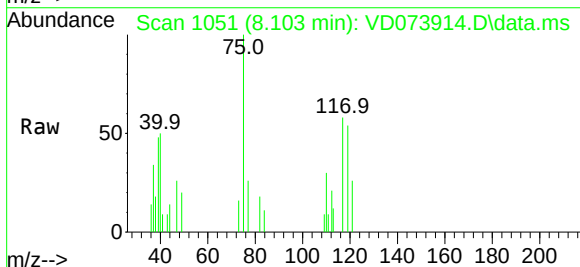
Tgt Ion: 75 Resp: 3803

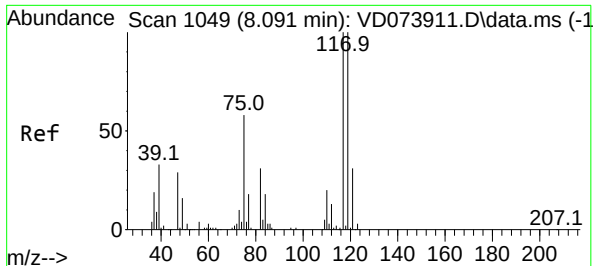
Ion Ratio Lower Upper

75 100

110 33.8 18.1 54.1

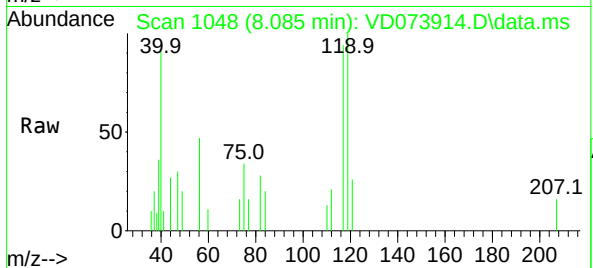
77 32.4 24.7 37.1



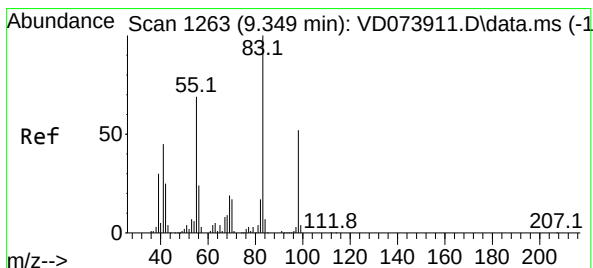
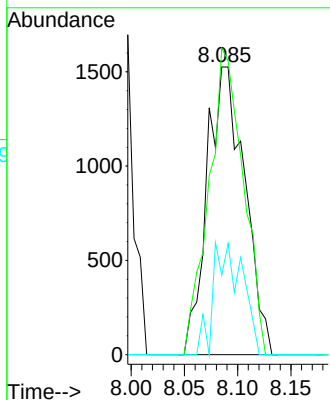
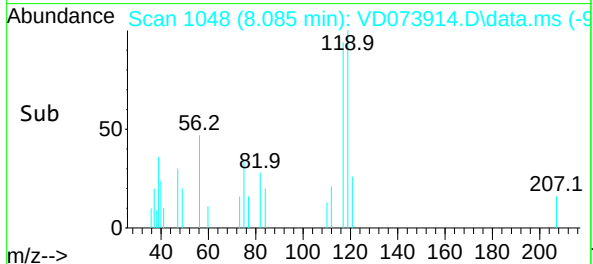


#38
Carbon Tetrachloride
Concen: 1.232 ug/l
RT: 8.085 min Scan# 1048
Delta R.T. -0.006 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

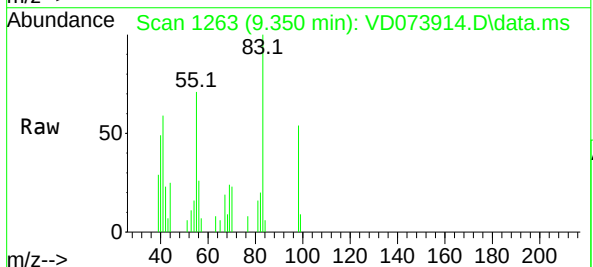
Instrument :
MSVOA_D
ClientSampleId :
VIBLK



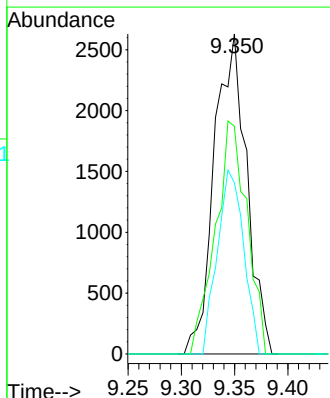
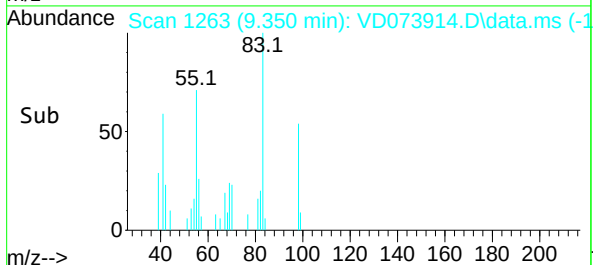
Tgt Ion: 117 Resp: 3750
Ion Ratio Lower Upper
117 100
119 106.5 79.6 119.4
121 27.7 24.4 36.6

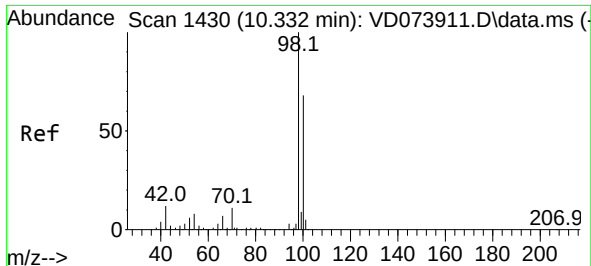


#39
Methylcyclohexane
Concen: 1.738 ug/l
RT: 9.350 min Scan# 1263
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44



Tgt Ion: 83 Resp: 5534
Ion Ratio Lower Upper
83 100
55 71.1 55.6 83.4
98 53.5 41.6 62.4

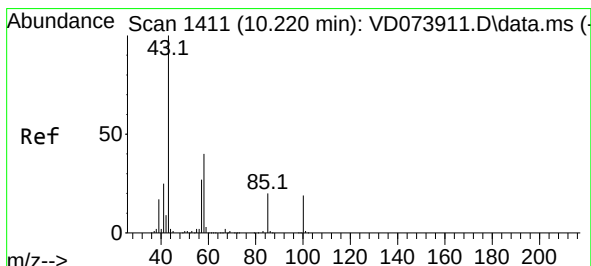
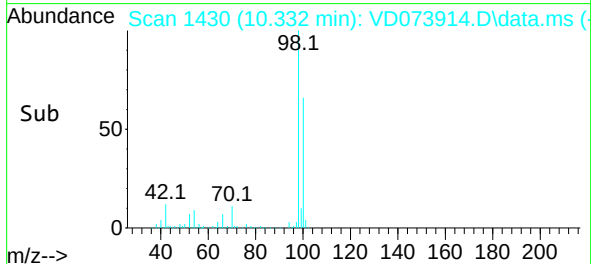
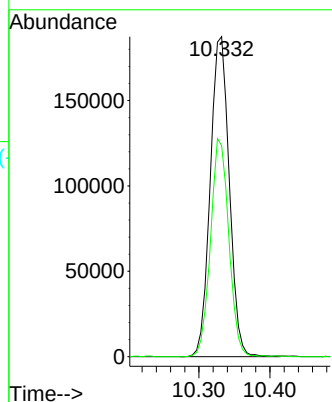
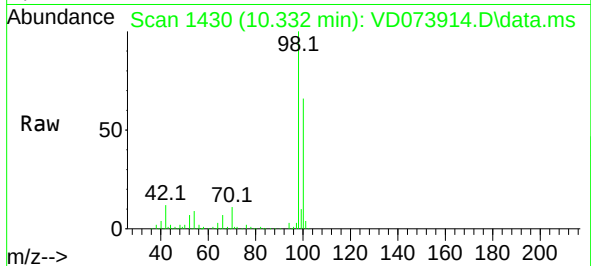




#50
Toluene-d8
Concen: 54.133 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

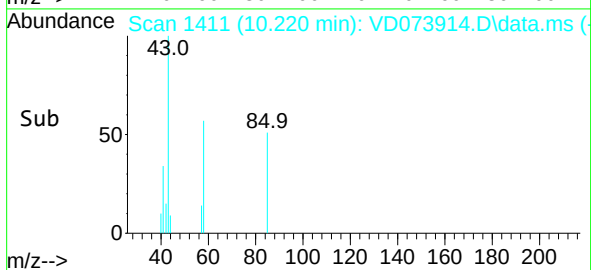
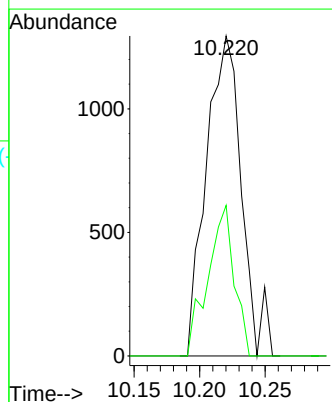
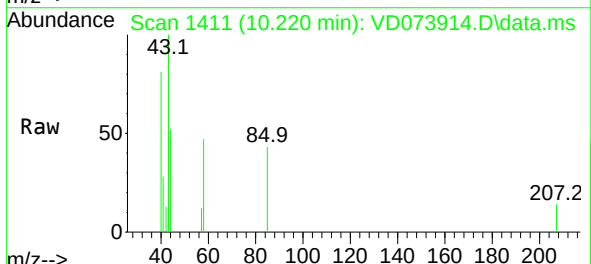
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

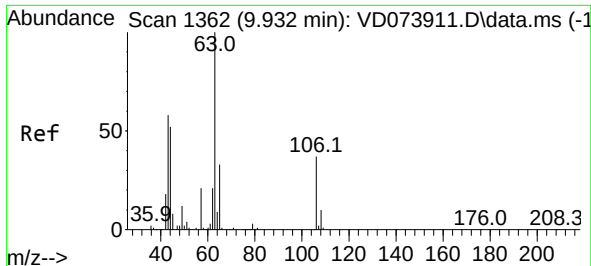
Tgt Ion: 98 Resp: 347733
Ion Ratio Lower Upper
98 100
100 65.7 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 2.419 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 43 Resp: 2419
Ion Ratio Lower Upper
43 100
58 35.1 32.1 48.1

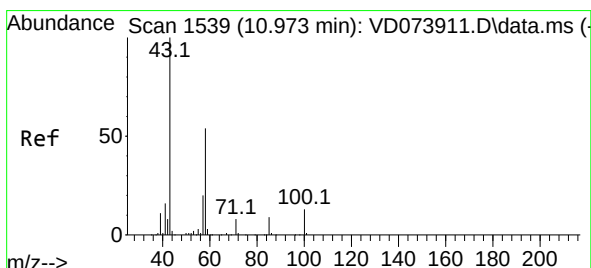
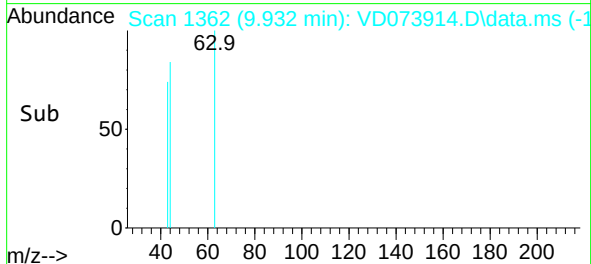
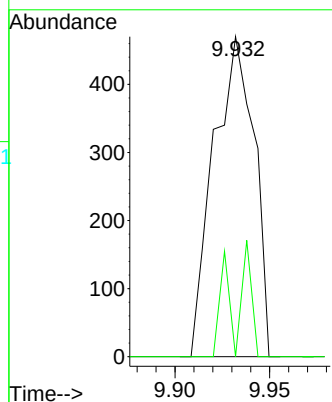
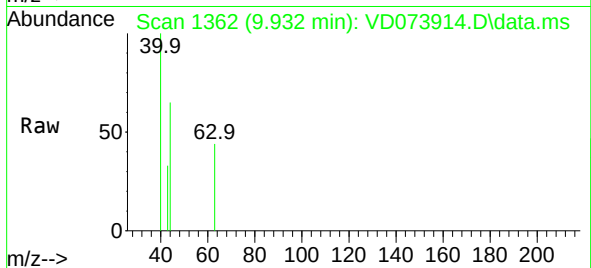




#58
2-Chloroethyl Vinyl ether
Concen: 1.080 ug/l
RT: 9.932 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

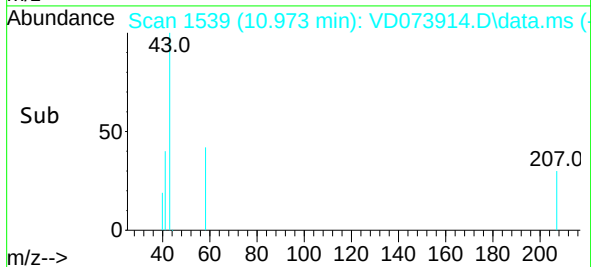
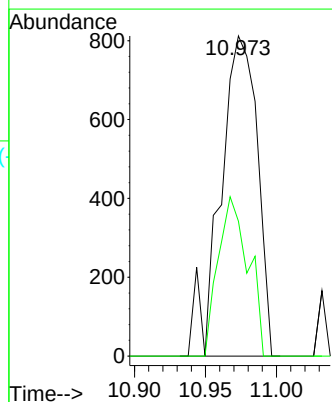
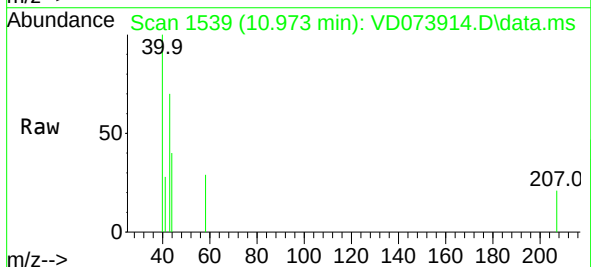
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

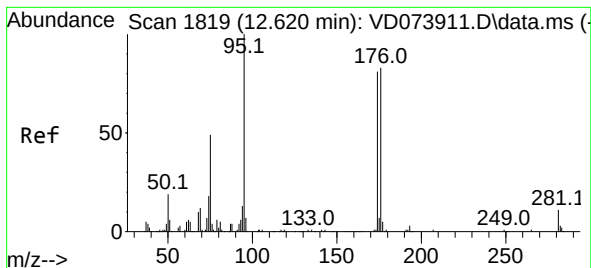
Tgt Ion: 63 Resp: 698
Ion Ratio Lower Upper
63 100
106 16.5 26.3 39.5#



#59
2-Hexanone
Concen: 2.186 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 43 Resp: 1479
Ion Ratio Lower Upper
43 100
58 40.2 27.8 83.4

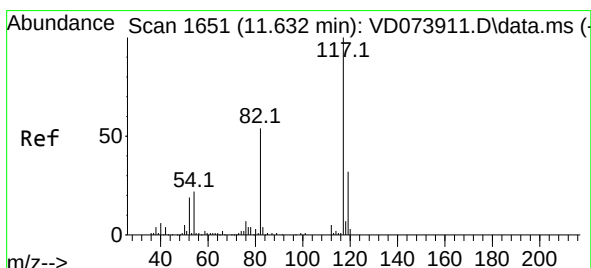
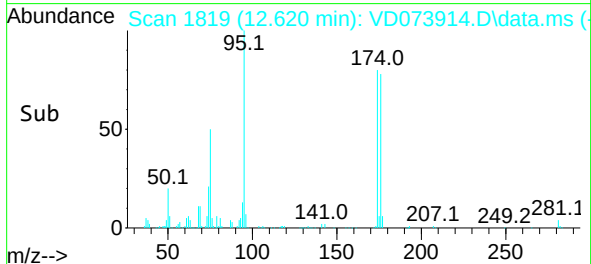
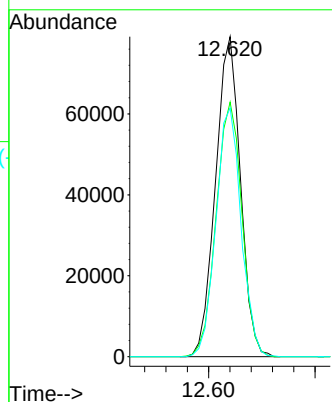
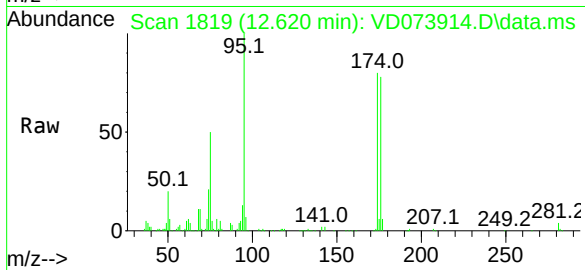




#62
4-Bromofluorobenzene
Concen: 54.266 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

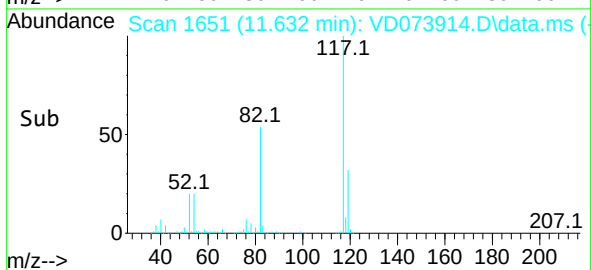
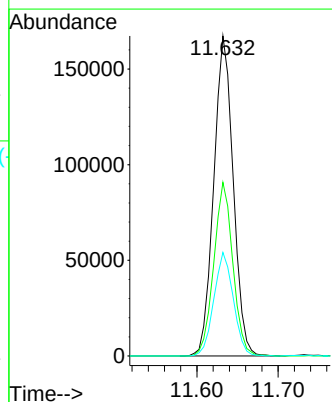
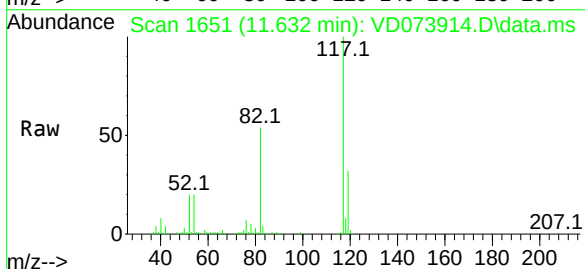
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

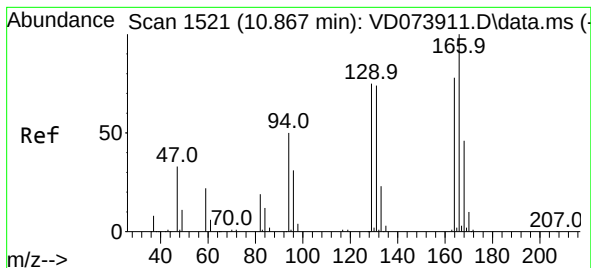
Tgt Ion: 95 Resp: 128192
Ion Ratio Lower Upper
95 100
174 82.2 0.0 164.2
176 78.6 0.0 161.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. 0.000 min
Lab File: VD073914.D
Acq: 01 Aug 2022 14:44

Tgt Ion: 117 Resp: 278585
Ion Ratio Lower Upper
117 100
82 54.3 43.3 64.9
119 32.4 25.8 38.8





#64

Tetrachloroethene

Concen: 1.402 ug/l

RT: 10.867 min Scan# 1521

Delta R.T. 0.000 min

Lab File: VD073914.D

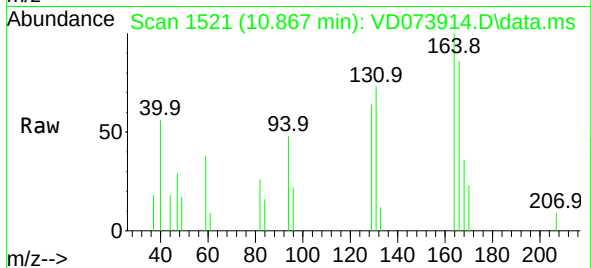
Acq: 01 Aug 2022 14:44

Instrument :

MSVOA_D

ClientSampleId :

VIBLK



Tgt Ion:164 Resp: 2780

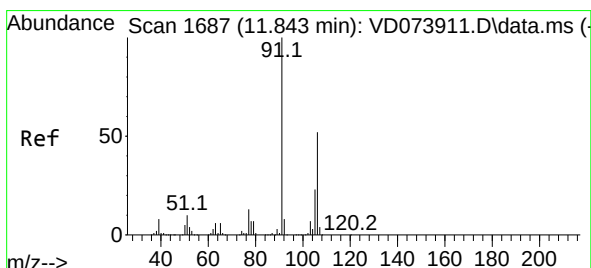
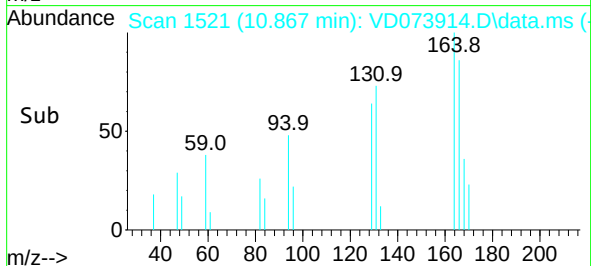
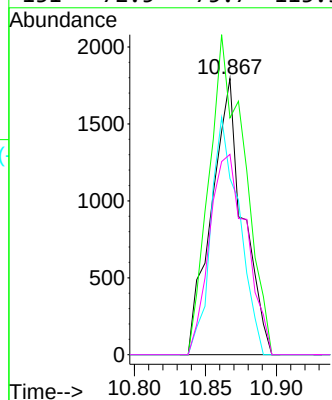
Ion Ratio Lower Upper

164 100

166 85.7 102.3 153.5#

129 63.8 76.6 115.0#

131 72.5 75.7 113.5#



#68

m/p-Xylenes

Concen: 1.638 ug/l

RT: 11.838 min Scan# 1686

Delta R.T. -0.006 min

Lab File: VD073914.D

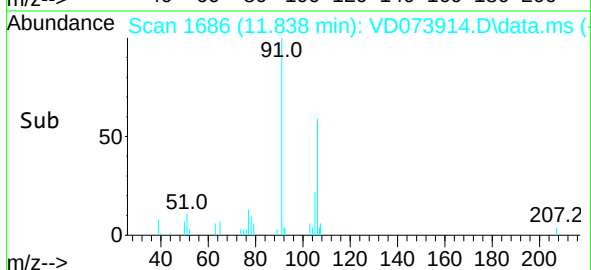
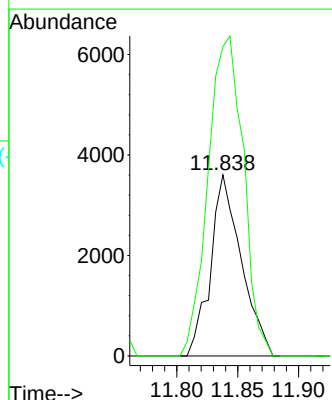
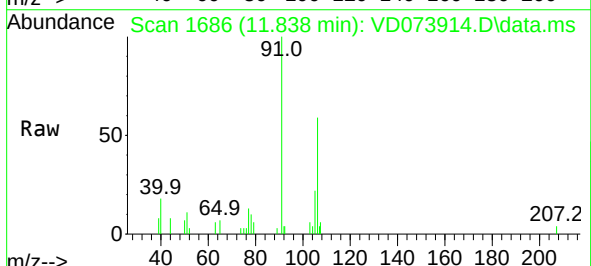
Acq: 01 Aug 2022 14:44

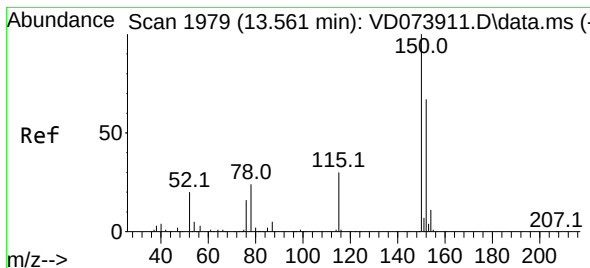
Tgt Ion:106 Resp: 6334

Ion Ratio Lower Upper

106 100

91 202.9 156.6 234.8

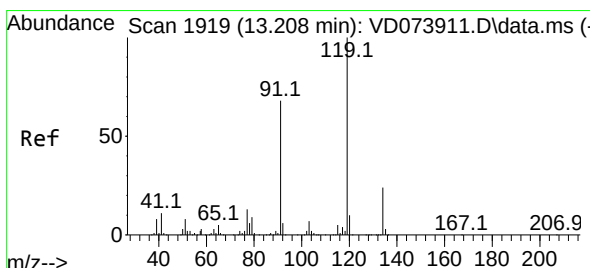
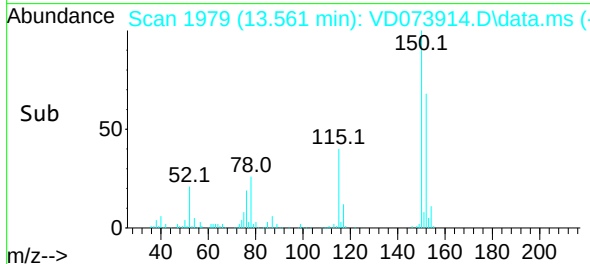
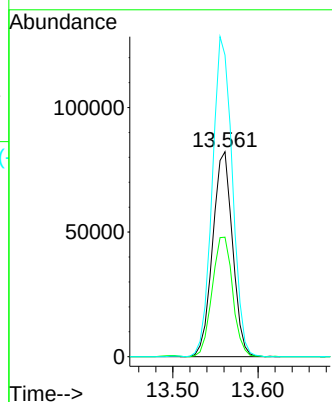
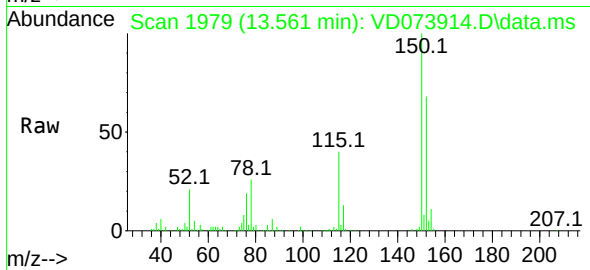




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.561 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VD073914.D
 Acq: 01 Aug 2022 14:44

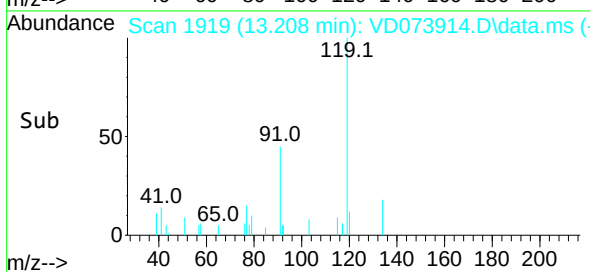
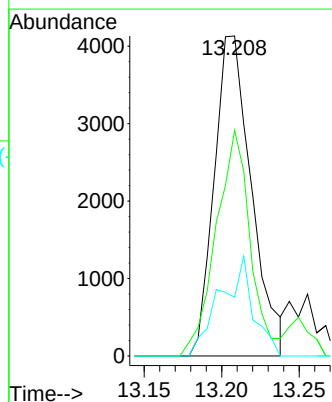
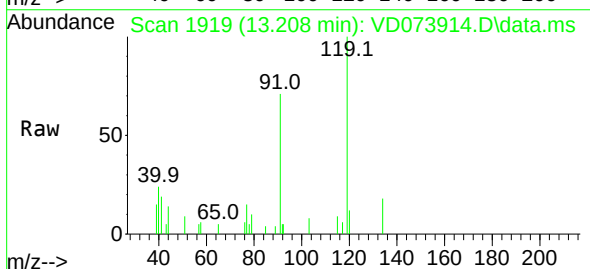
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

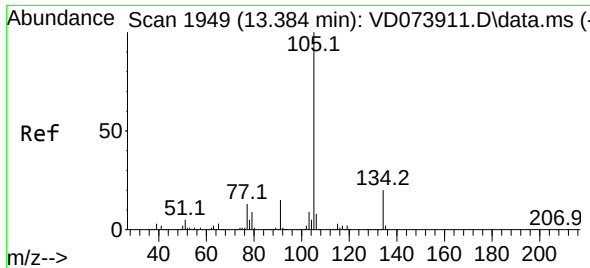
Tgt Ion:152 Resp: 133654
 Ion Ratio Lower Upper
 152 100
 115 60.0 29.1 87.3
 150 157.0 0.0 338.2



#83
 tert-Butylbenzene
 Concen: 1.014 ug/l
 RT: 13.208 min Scan# 1919
 Delta R.T. 0.000 min
 Lab File: VD073914.D
 Acq: 01 Aug 2022 14:44

Tgt Ion:119 Resp: 6913
 Ion Ratio Lower Upper
 119 100
 91 64.9 33.2 99.6
 134 27.6 13.6 40.8

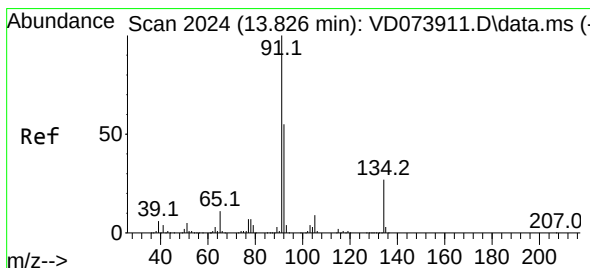
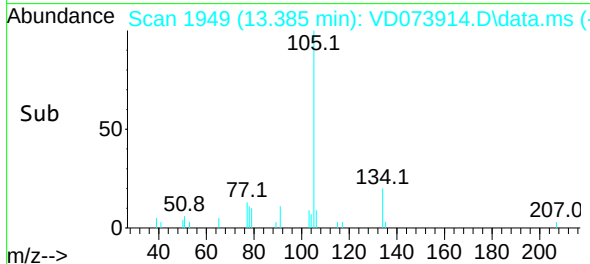
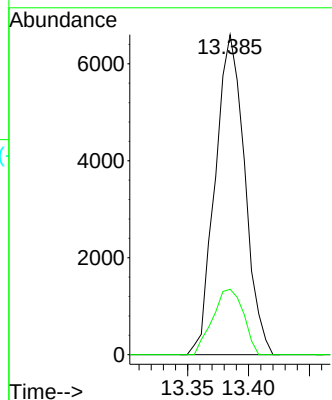
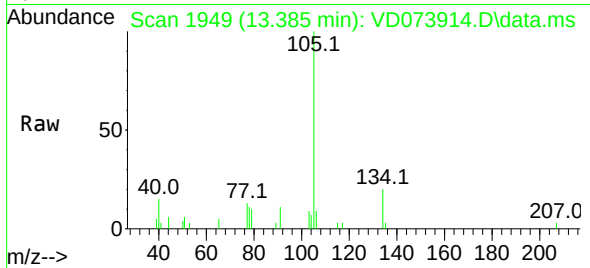




#85
 sec-Butylbenzene
 Concen: 1.077 ug/l
 RT: 13.385 min Scan# 1949
 Delta R.T. 0.000 min
 Lab File: VD073914.D
 Acq: 01 Aug 2022 14:44

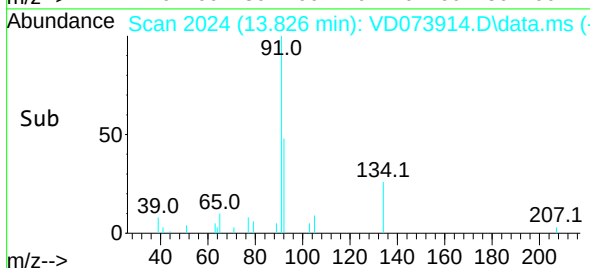
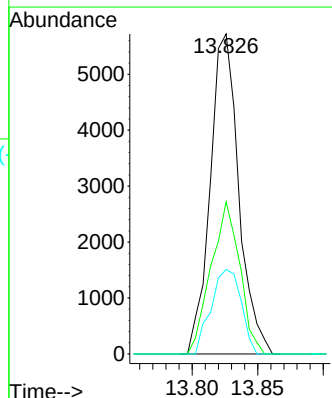
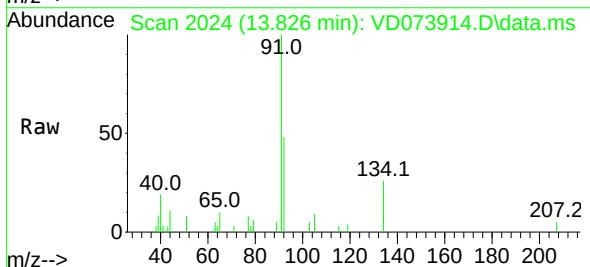
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

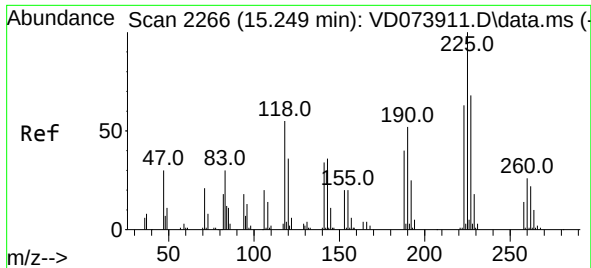
Tgt Ion:105 Resp: 11112
 Ion Ratio Lower Upper
 105 100
 134 21.3 10.3 30.8



#89
 n-Butylbenzene
 Concen: 1.086 ug/l
 RT: 13.826 min Scan# 2024
 Delta R.T. 0.000 min
 Lab File: VD073914.D
 Acq: 01 Aug 2022 14:44

Tgt Ion: 91 Resp: 8677
 Ion Ratio Lower Upper
 91 100
 92 47.7 26.9 80.6
 134 27.6 13.6 40.7





#94
 Hexachlorobutadiene
 Concen: 1.219 ug/l
 RT: 15.243 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VD073914.D
 Acq: 01 Aug 2022 14:44

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Tgt Ion:225	Resp:	1595
Ion	Ratio	Lower Upper
225	100	
223	63.8	31.3 93.8
227	54.5	32.3 96.9

