

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052422\
 Data File : VD073321.D
 Acq On : 24 May 2022 13:28
 Operator : VA/SY
 Sample : N2960-03
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BIN-4-SP-2

Quant Time: May 24 16:45:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051922S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 19 15:13:42 2022
 Response via : Initial Calibration

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

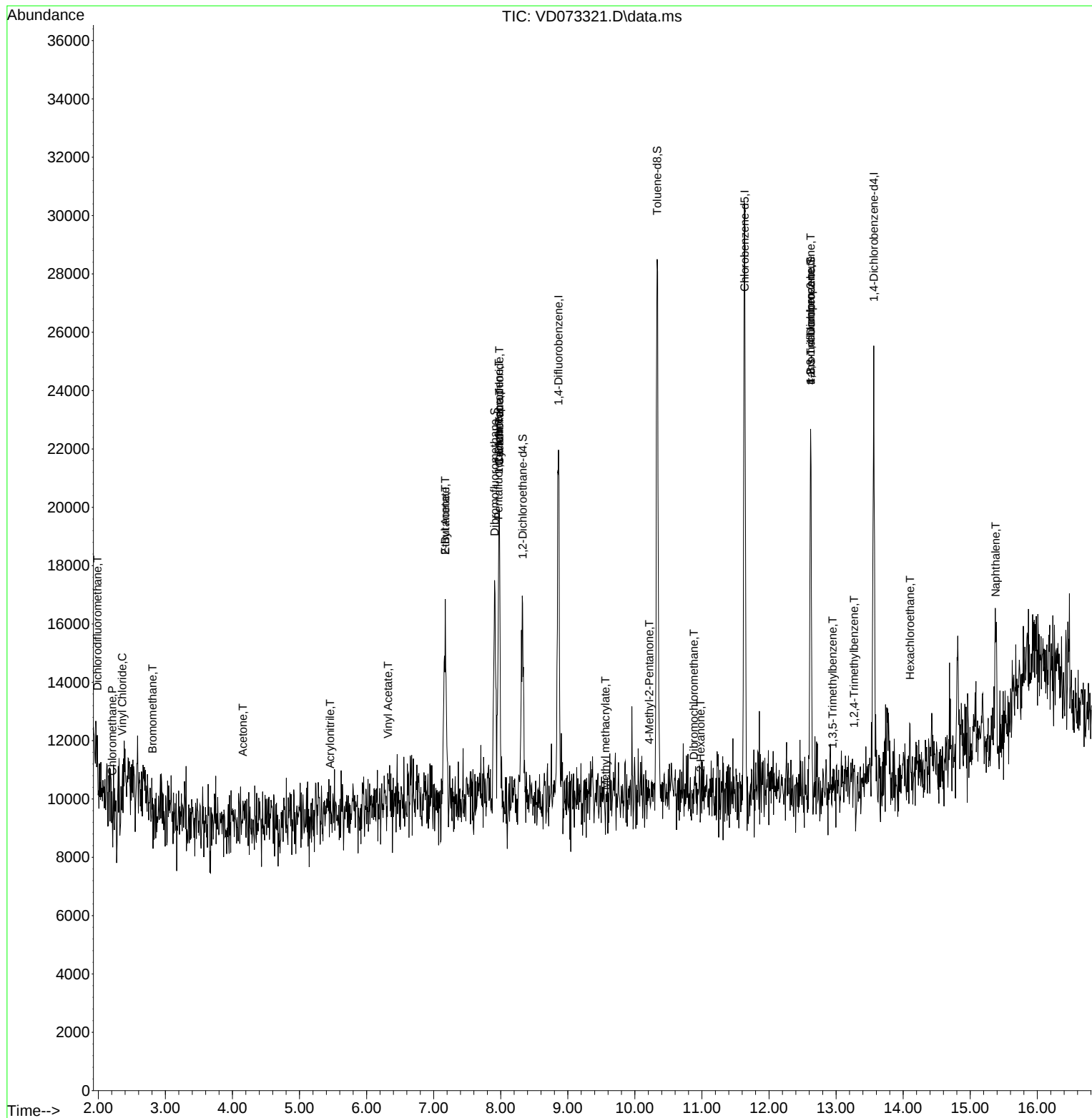
Internal Standards						
1) Pentafluorobenzene	7.967	168	7463	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.861	114	10569	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	12481	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	4441	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	5301	64.273	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 128.540%	
35) Dibromofluoromethane	7.909	113	5156	73.930	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 147.860%#	
50) Toluene-d8	10.332	98	14602	56.799	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 113.600%	
62) 4-Bromofluorobenzene	12.620	95	4423	49.024	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 98.040%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.985	85	119	1.596	ug/l	# 43
3) Chloromethane	2.209	50	489	5.799	ug/l	# 40
4) Vinyl Chloride	2.356	62	169	2.192	ug/l	# 43
5) Bromomethane	2.809	94	346	3.224	ug/l	# 1
15) Acrylonitrile	5.456	53	68	3.969	ug/l	# 17
16) Acetone	4.156	43	1379	96.529	ug/l	91
20) Methylene Chloride	4.950	84	55	Below Cal	#	50
23) Vinyl Acetate	6.320	43	225	1.662	ug/l	# 75
25) 2-Butanone	7.173	43	216	10.335	ug/l	# 52
31) Cyclohexane	7.979	56	223	1.547	ug/l	# 1
36) 1,1-Dichloropropene	7.973	75	634	6.044	ug/l	# 43
37) Ethyl Acetate	7.173	43	216	5.214	ug/l	# 70
38) Carbon Tetrachloride	7.979	117	789	7.421	ug/l	# 13
48) Methyl methacrylate	9.561	41	55	1.428	ug/l	# 19
51) 4-Methyl-2-Pentanone	10.214	43	68	1.710	ug/l	# 39
59) 2-Hexanone	10.979	43	55	2.097	ug/l	# 27
60) Dibromochloromethane	10.879	129	121	1.716	ug/l	# 10
76) 1,2,3-Trichloropropane	12.620	75	2618	60.082	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.949	105	463	1.726	ug/l	# 29
81) trans-1,4-Dichloro-2-b...	12.620	75	2618	144.238	ug/l	# 7
84) 1,2,4-Trimethylbenzene	13.267	105	1097	4.141	ug/l	99
90) Hexachloroethane	14.102	117	246	4.226	ug/l	# 17
95) Naphthalene	15.379	128	4382	31.558	ug/l	97

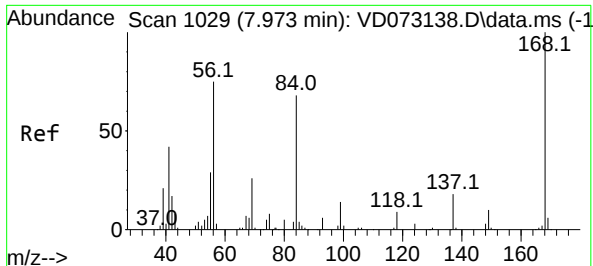
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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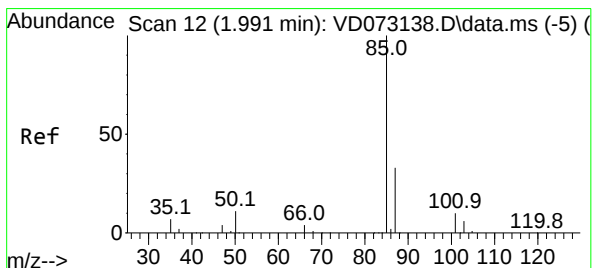
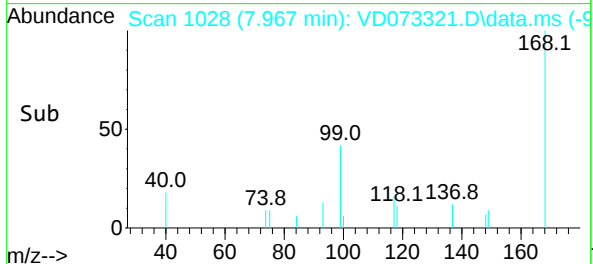
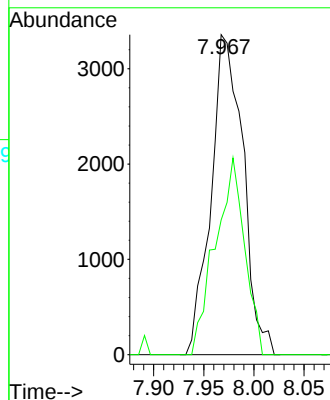
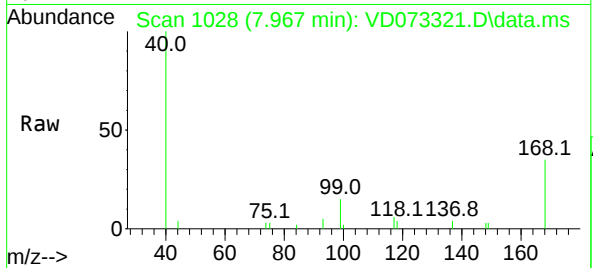




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.967 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

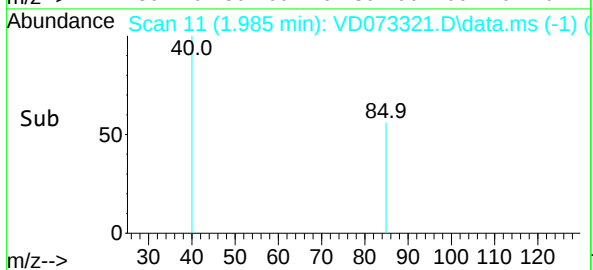
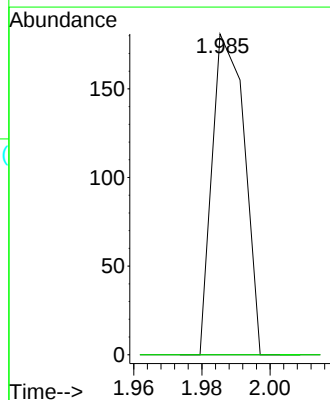
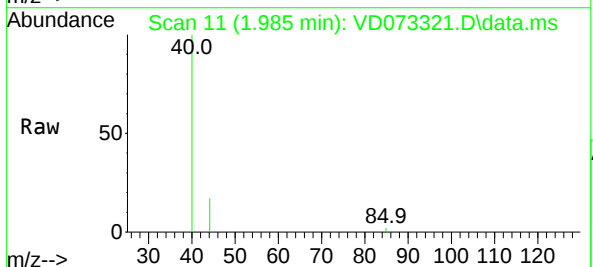
Instrument :
MSVOA_D
ClientSampleId :
BIN-4-SP-2

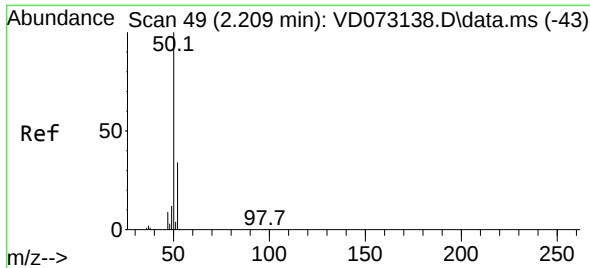
Tgt Ion:168 Resp: 7463
Ion Ratio Lower Upper
168 100
99 42.1 49.8 74.6#



#2
Dichlorodifluoromethane
Concen: 1.596 ug/l
RT: 1.985 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

Tgt Ion: 85 Resp: 119
Ion Ratio Lower Upper
85 100
87 0.0 15.7 47.0#

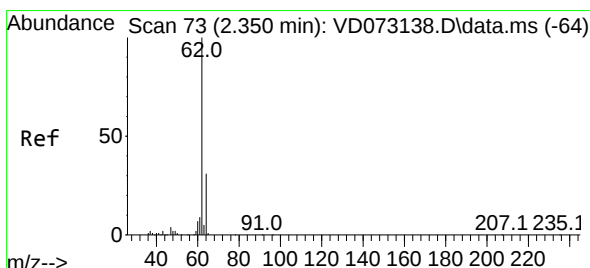
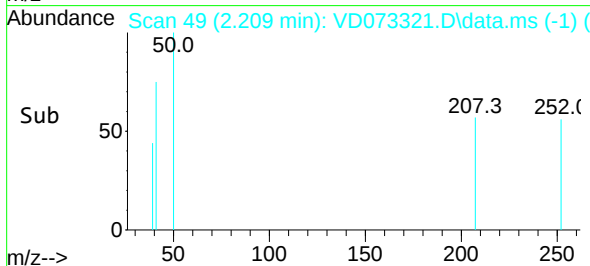
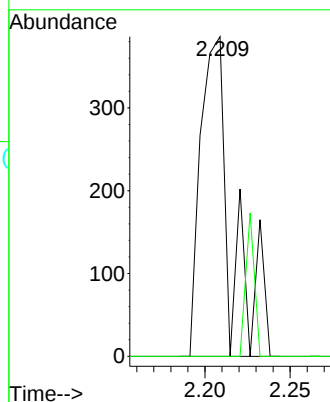
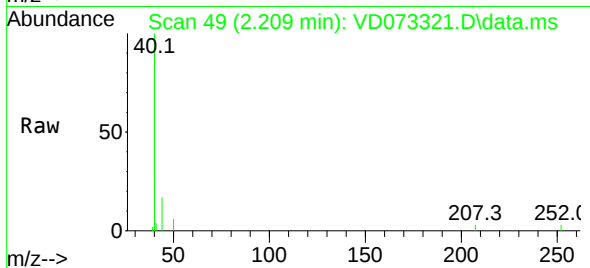




#3
Chloromethane
Concen: 5.799 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

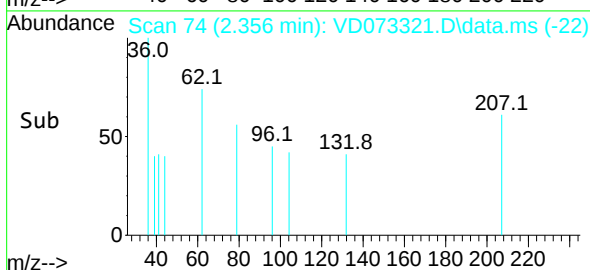
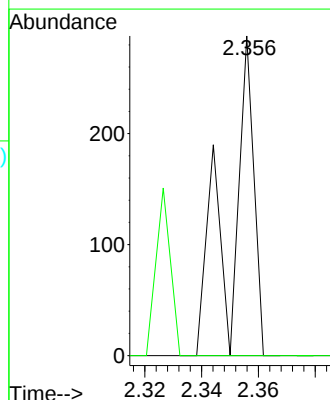
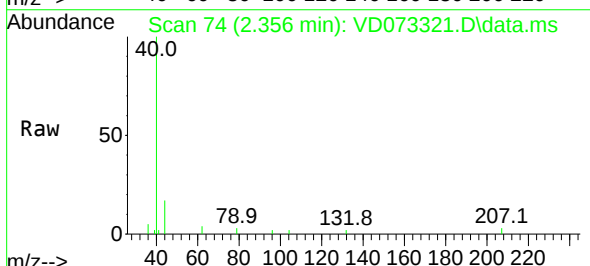
Instrument :
MSVOA_D
ClientSampleId :
BIN-4-SP-2

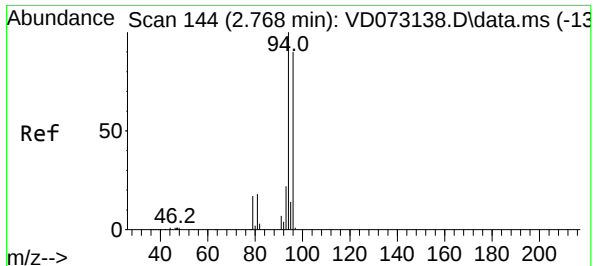
Tgt Ion: 50 Resp: 489
Ion Ratio Lower Upper
50 100
52 0.0 27.4 41.0#



#4
Vinyl Chloride
Concen: 2.192 ug/l
RT: 2.356 min Scan# 74
Delta R.T. 0.006 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

Tgt Ion: 62 Resp: 169
Ion Ratio Lower Upper
62 100
64 0.0 25.4 38.0#

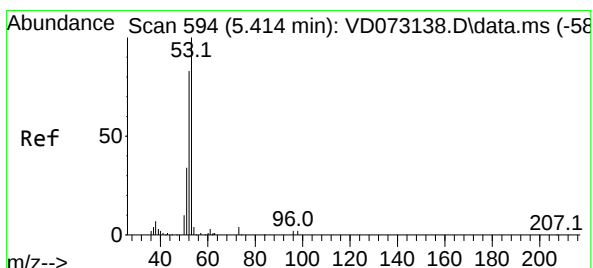
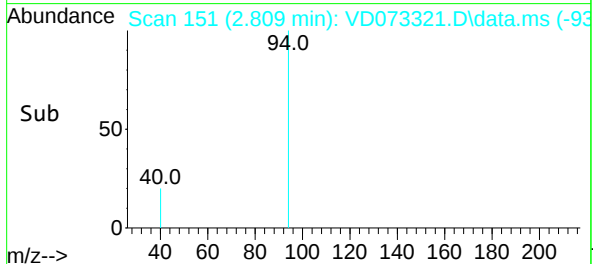
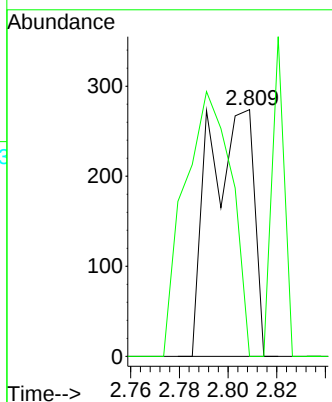
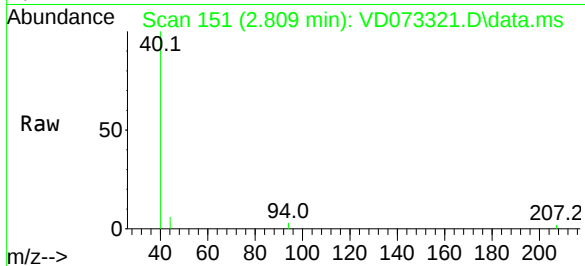




#5
Bromomethane
Concen: 3.224 ug/l
RT: 2.809 min Scan# 11
Delta R.T. 0.041 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

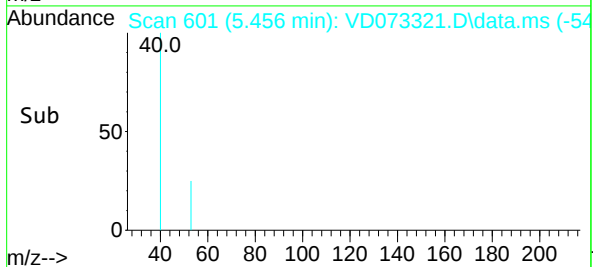
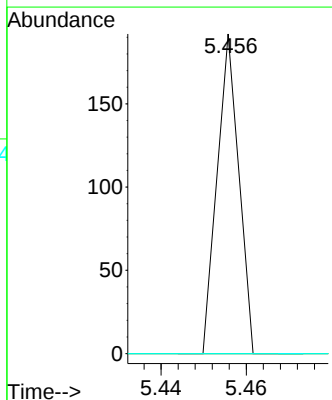
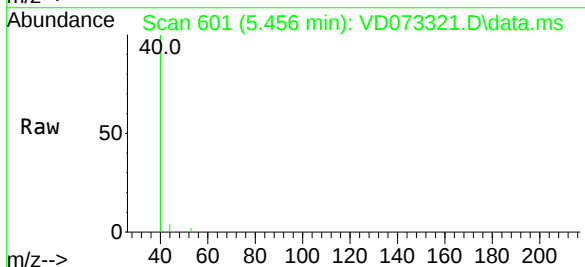
Instrument :
MSVOA_D
ClientSampleId :
BIN-4-SP-2

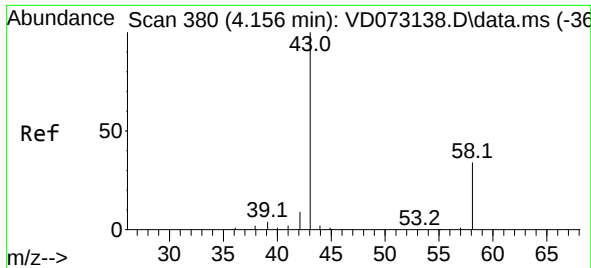
Tgt Ion: 94 Resp: 346
Ion Ratio Lower Upper
94 100
96 0.0 77.6 116.4#



#15
Acrylonitrile
Concen: 3.969 ug/l
RT: 5.456 min Scan# 601
Delta R.T. 0.042 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

Tgt Ion: 53 Resp: 68
Ion Ratio Lower Upper
53 100
52 0.0 67.2 100.8#
51 0.0 30.3 45.5#





#16

Acetone

Concen: 96.529 ug/l

RT: 4.156 min Scan# 31

Delta R.T. -0.000 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

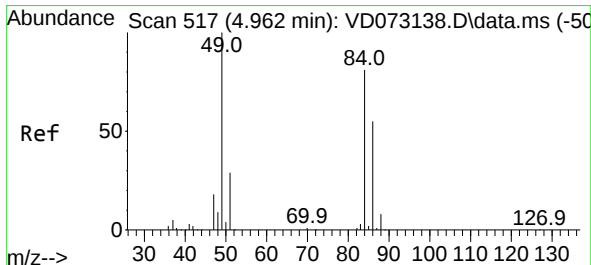
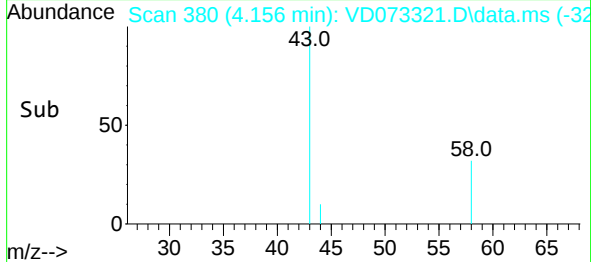
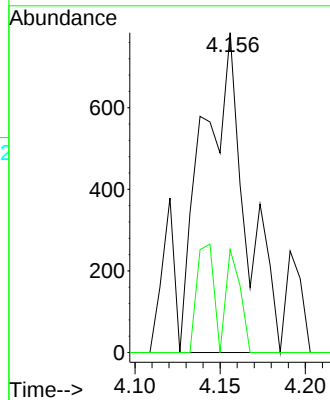
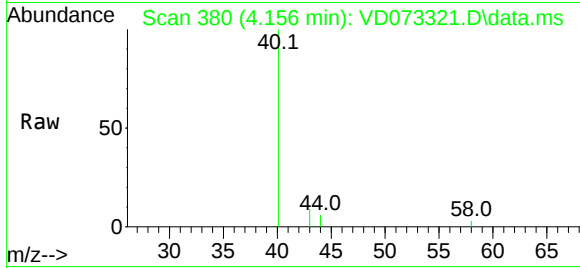
BIN-4-SP-2

Tgt Ion: 43 Resp: 1379

Ion Ratio Lower Upper

43 100

58 32.3 22.1 33.1



#20

Methylene Chloride

Concen: Below Cal

RT: 4.950 min Scan# 515

Delta R.T. -0.012 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Tgt Ion: 84 Resp: 55

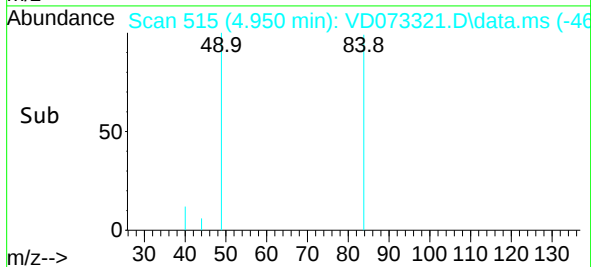
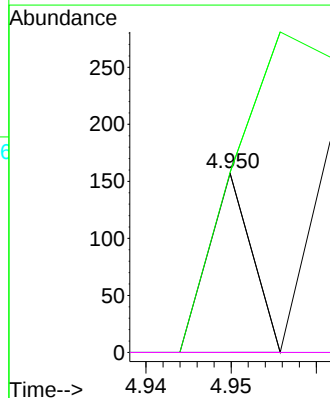
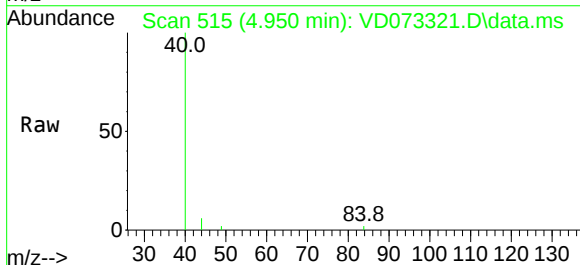
Ion Ratio Lower Upper

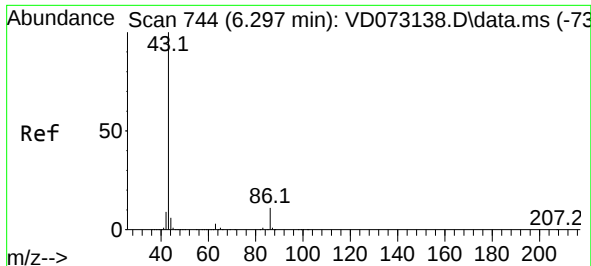
84 100

49 100.6 112.8 169.2#

51 0.0 32.6 48.8#

86 0.0 47.9 71.9#

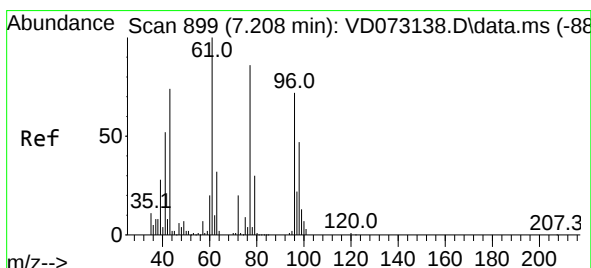
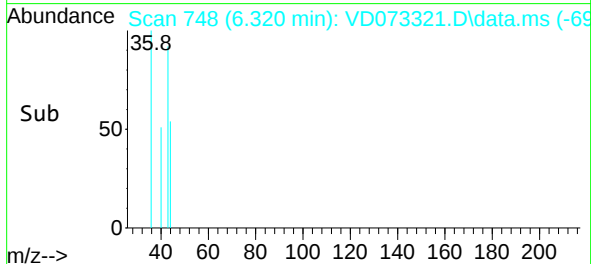
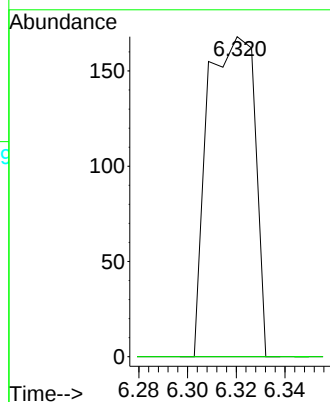
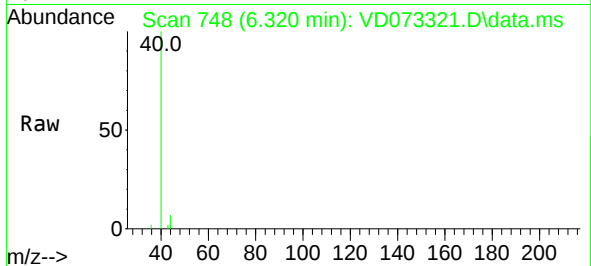




#23
 Vinyl Acetate
 Concen: 1.662 ug/l
 RT: 6.320 min Scan# 744
 Delta R.T. 0.023 min
 Lab File: VD073321.D
 Acq: 24 May 2022 13:28

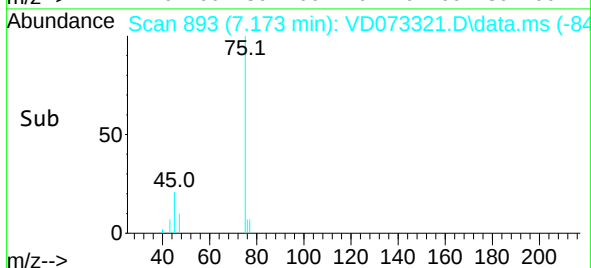
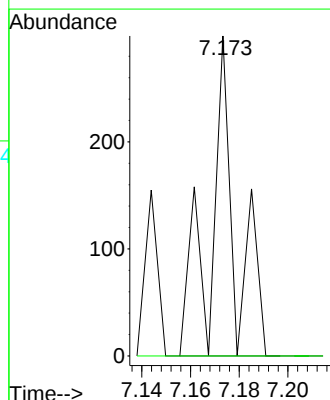
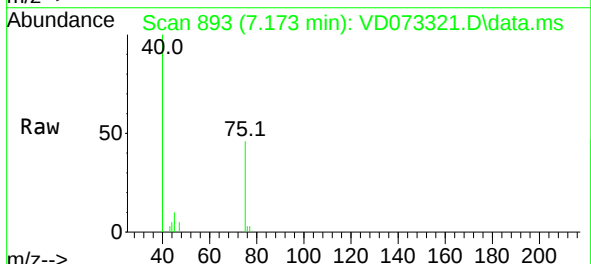
Instrument :
 MSVOA_D
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 BIN-4-SP-2

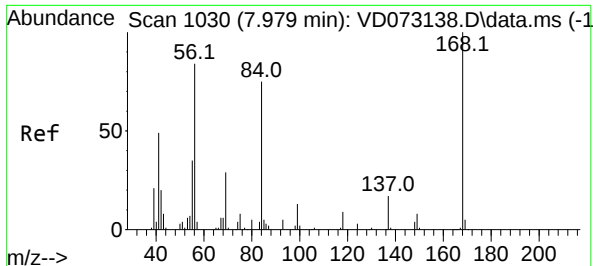
Tgt Ion: 43 Resp: 225
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 10.335 ug/l
 RT: 7.173 min Scan# 893
 Delta R.T. -0.035 min
 Lab File: VD073321.D
 Acq: 24 May 2022 13:28

Tgt Ion: 43 Resp: 216
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#





#31

Cyclohexane

Concen: 1.547 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

BIN-4-SP-2

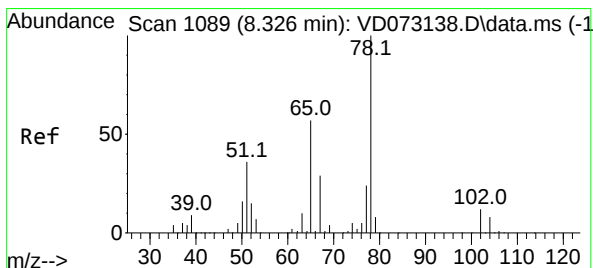
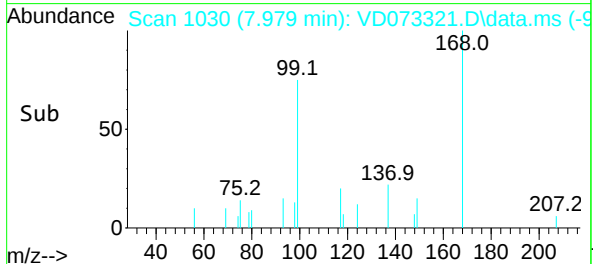
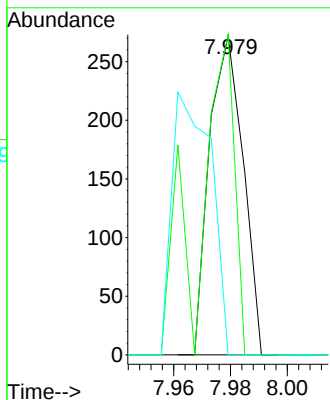
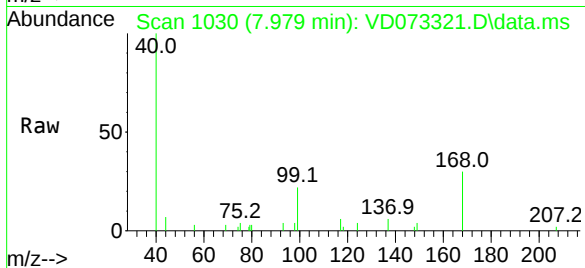
Tgt Ion: 56 Resp: 223

Ion Ratio Lower Upper

56 100

69 100.4 25.4 38.2#

84 0.0 63.0 94.4#



#33

1,2-Dichloroethane-d4

Concen: 64.273 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD073321.D

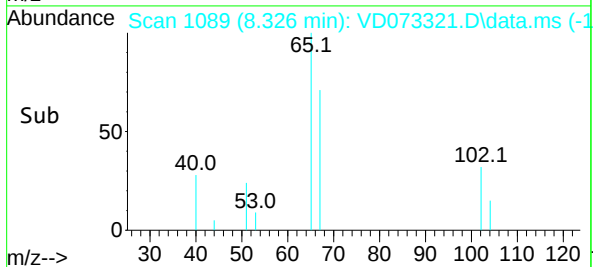
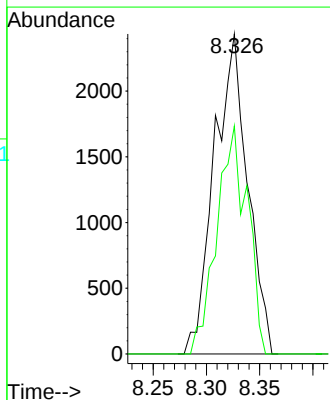
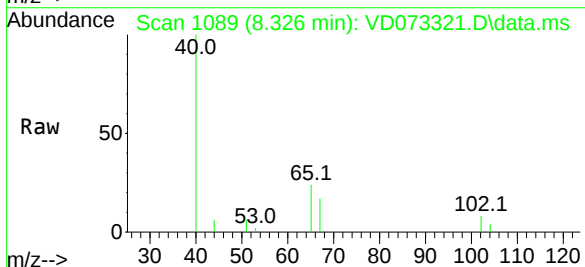
Acq: 24 May 2022 13:28

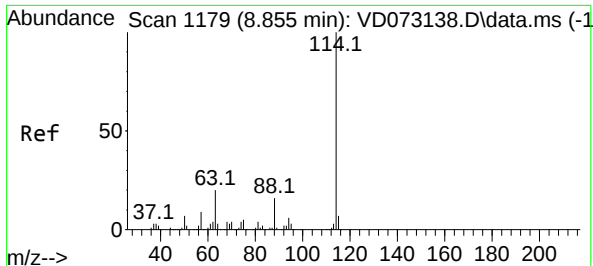
Tgt Ion: 65 Resp: 5301

Ion Ratio Lower Upper

65 100

67 65.6 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1179

Delta R.T. 0.006 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

BIN-4-SP-2

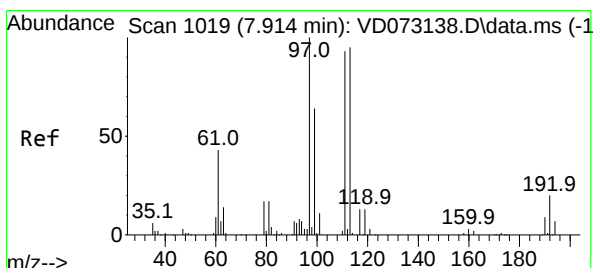
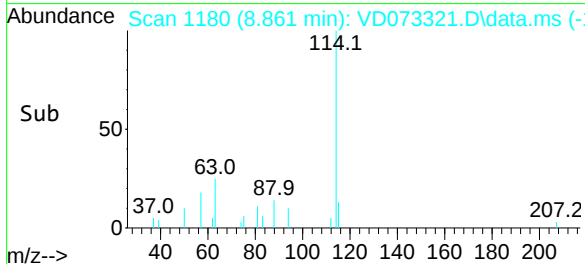
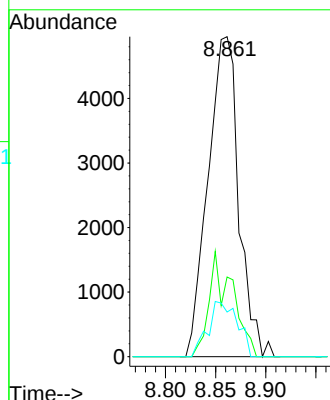
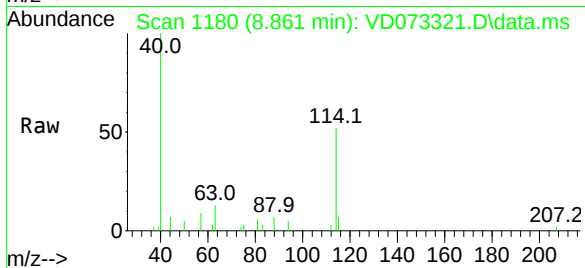
Tgt Ion:114 Resp: 10569

Ion Ratio Lower Upper

114 100

63 24.9 0.0 46.6

88 14.0 0.0 33.2



#35

Dibromofluoromethane

Concen: 73.930 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.005 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

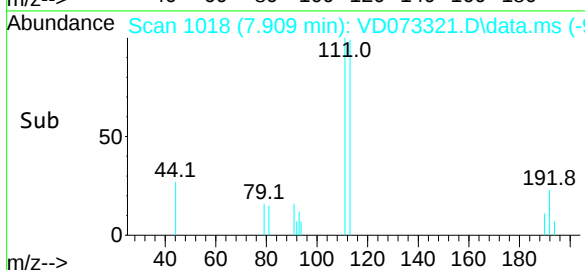
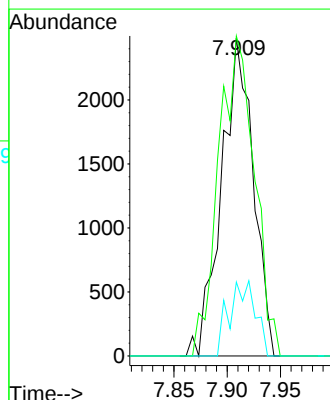
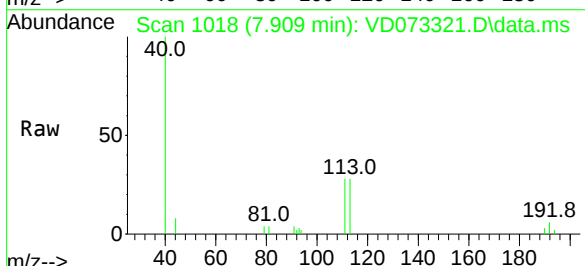
Tgt Ion:113 Resp: 5156

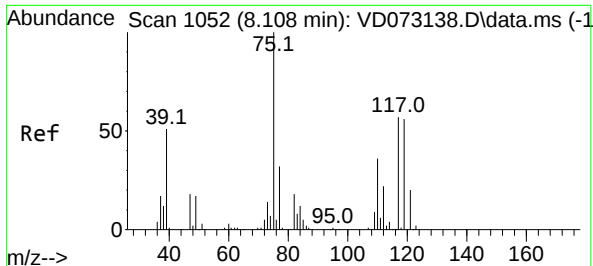
Ion Ratio Lower Upper

113 100

111 113.0 83.8 125.6

192 19.5 14.6 21.8





#36

1,1-Dichloropropene

Concen: 6.044 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

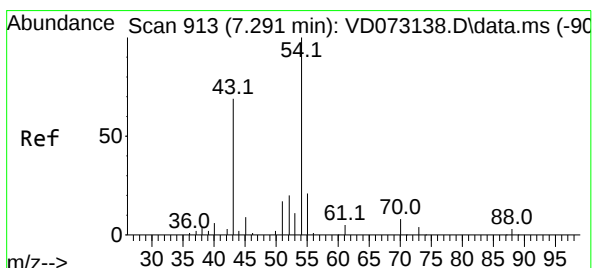
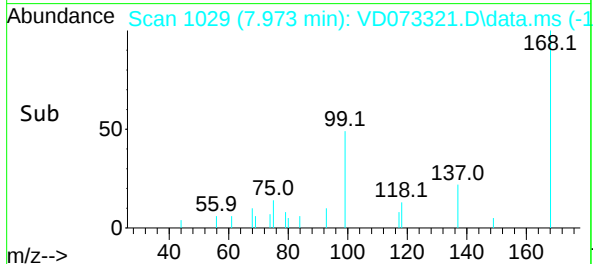
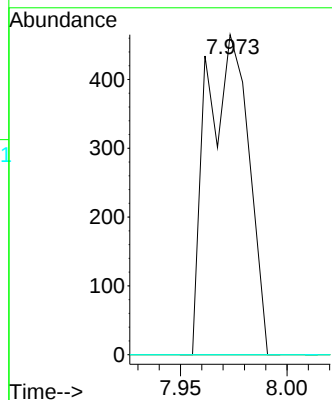
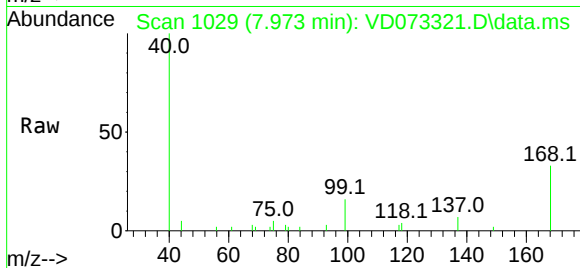
Instrument :

MSVOA_D

ClientSampleId :

BIN-4-SP-2

Tgt Ion:	75	Resp:	634
Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.4	49.1#
77	0.0	24.2	36.2#



#37

Ethyl Acetate

Concen: 5.214 ug/l

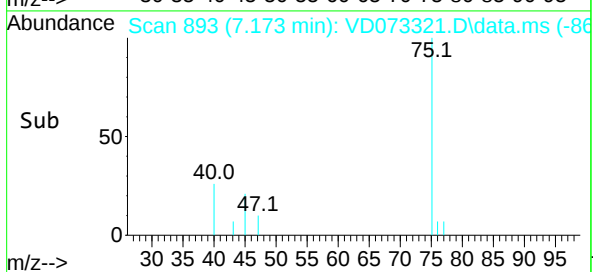
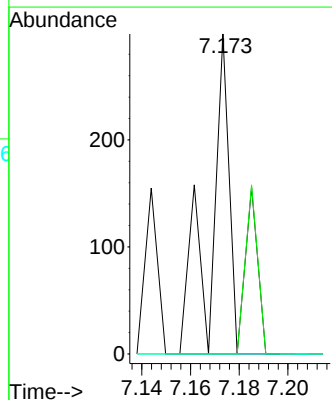
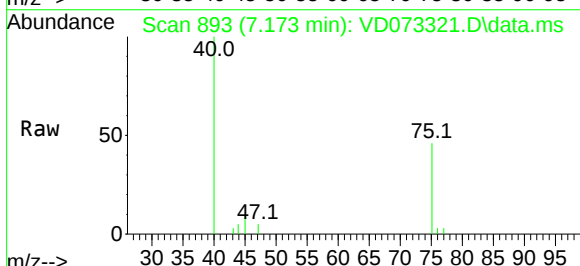
RT: 7.173 min Scan# 893

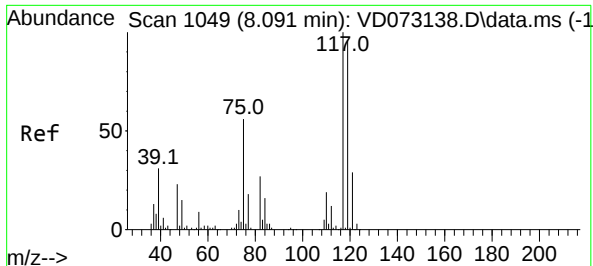
Delta R.T. -0.118 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Tgt Ion:	43	Resp:	216
Ion	Ratio	Lower	Upper
43	100		
61	25.9	9.8	14.8#
70	0.0	6.9	10.3#





#38

Carbon Tetrachloride

Concen: 7.421 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.112 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

BIN-4-SP-2

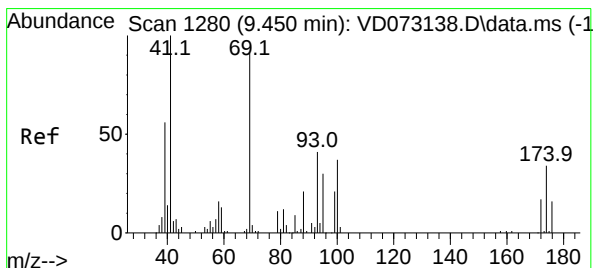
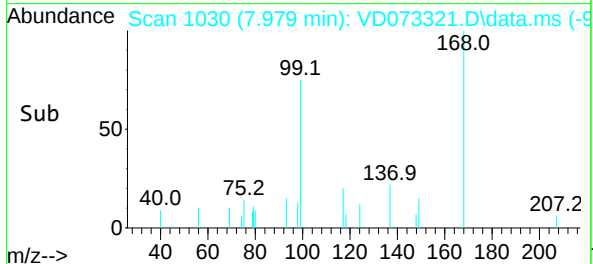
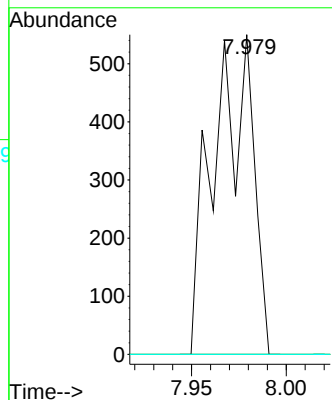
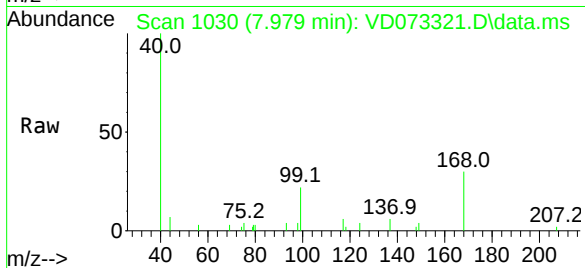
Tgt Ion:117 Resp: 789

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 24.5 36.7#



#48

Methyl methacrylate

Concen: 1.428 ug/l

RT: 9.561 min Scan# 1299

Delta R.T. 0.111 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

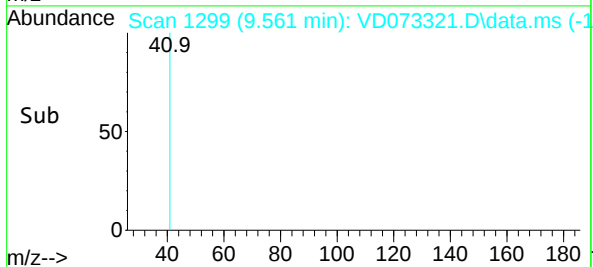
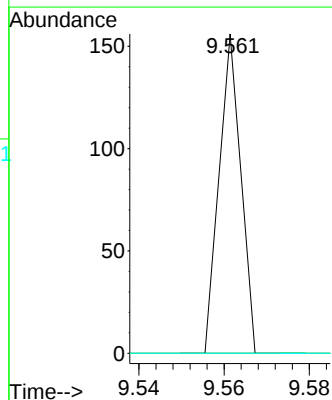
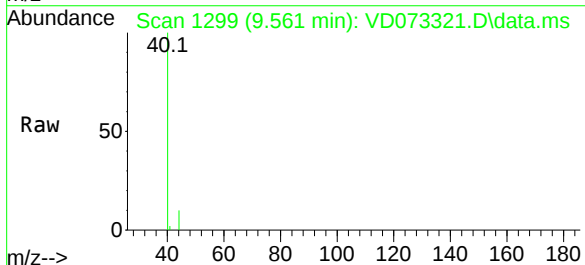
Tgt Ion: 41 Resp: 55

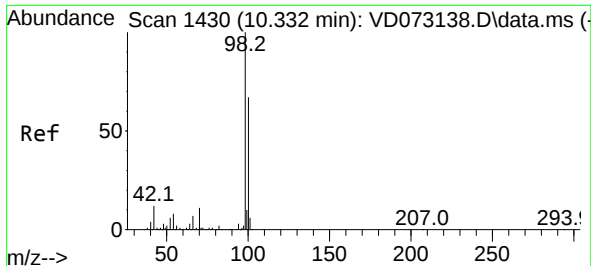
Ion Ratio Lower Upper

41 100

69 0.0 56.7 85.1#

39 0.0 42.7 64.1#

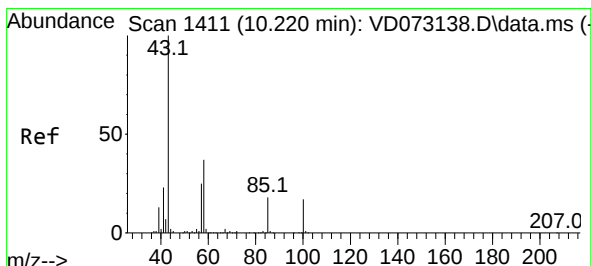
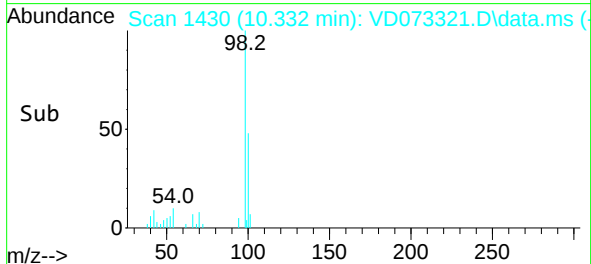
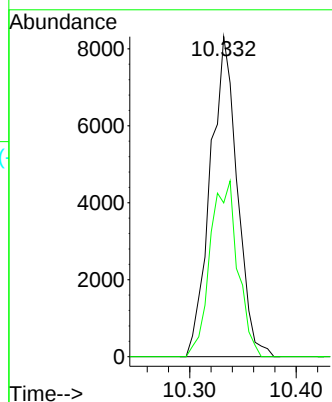
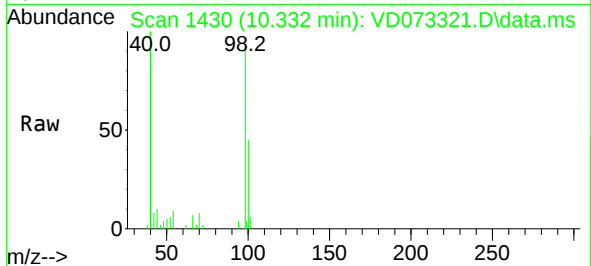




#50
Toluene-d8
Concen: 56.799 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

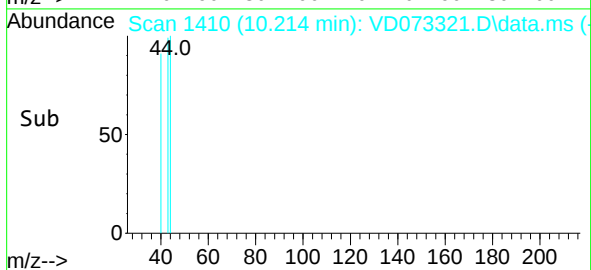
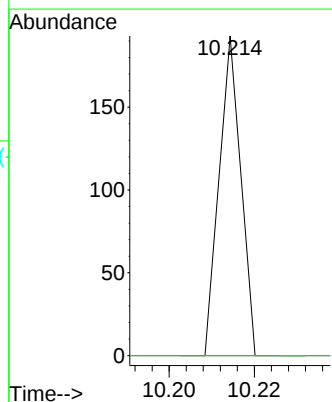
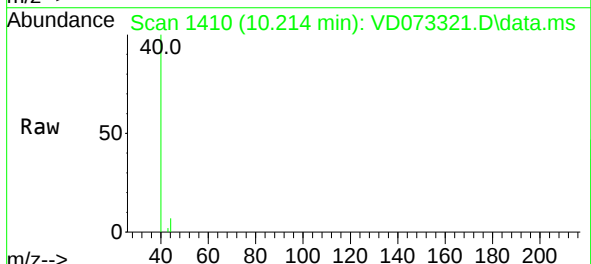
Instrument :
MSVOA_D
ClientSampleId :
BIN-4-SP-2

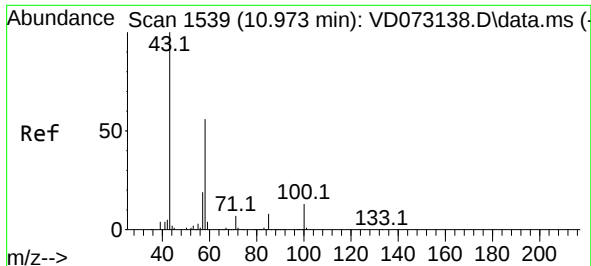
Tgt Ion: 98 Resp: 14602
Ion Ratio Lower Upper
98 100
100 56.3 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 1.710 ug/l
RT: 10.214 min Scan# 1410
Delta R.T. -0.006 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#

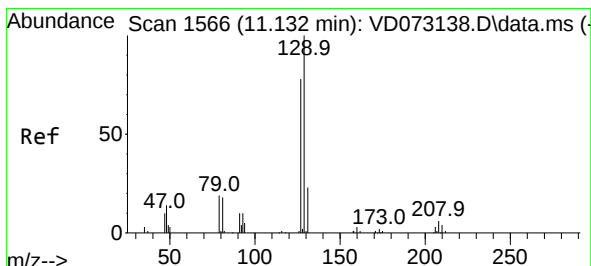
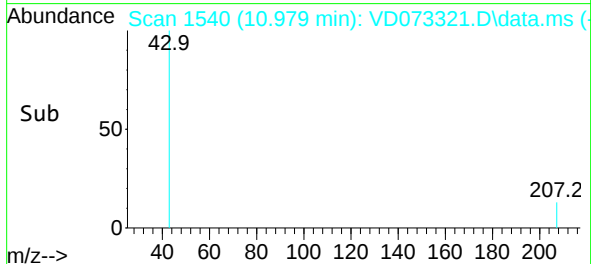
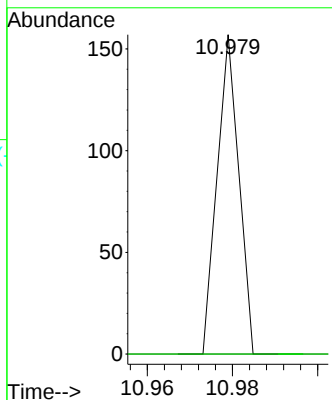
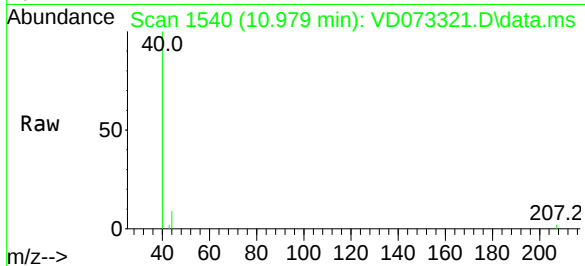




#59
2-Hexanone
Concen: 2.097 ug/l
RT: 10.979 min Scan# 1523
Delta R.T. 0.006 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

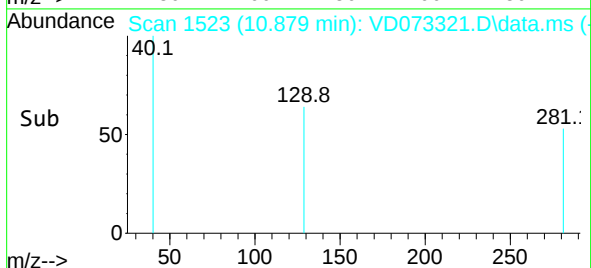
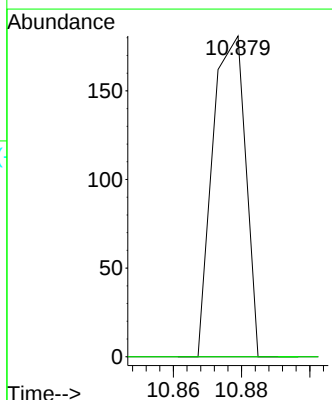
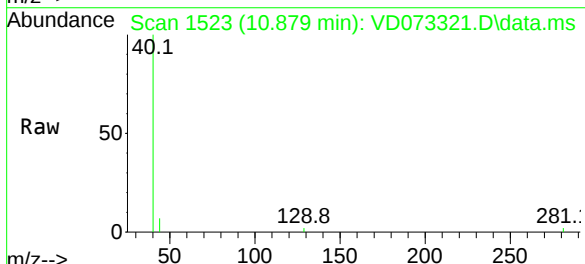
Instrument :
MSVOA_D
ClientSampleId :
BIN-4-SP-2

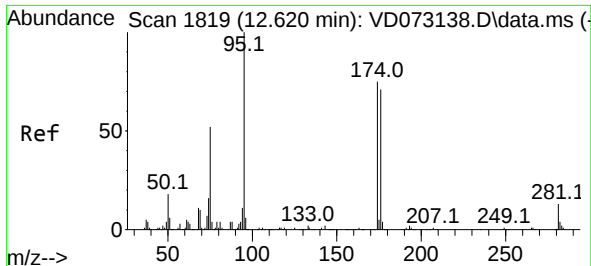
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 0.0 25.3 75.9#



#60
Dibromochloromethane
Concen: 1.716 ug/l
RT: 10.879 min Scan# 1523
Delta R.T. -0.253 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

Tgt Ion: 129 Resp: 121
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#

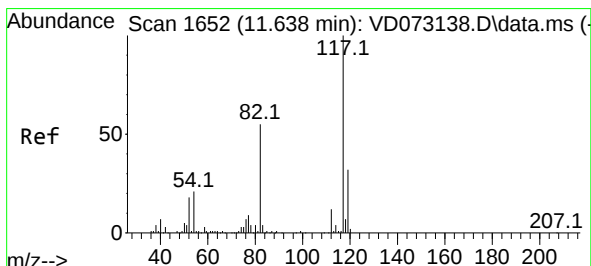
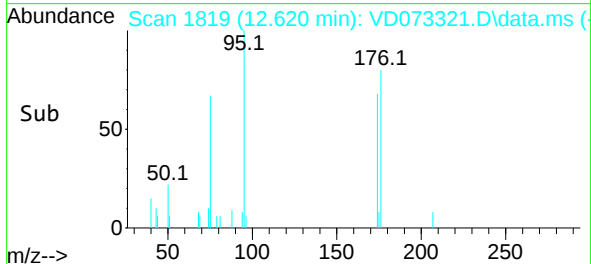
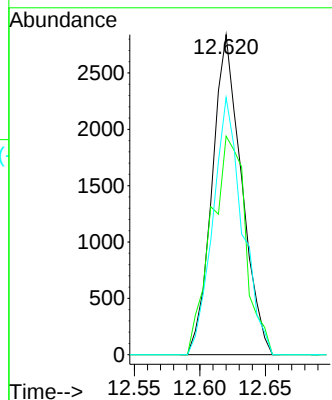
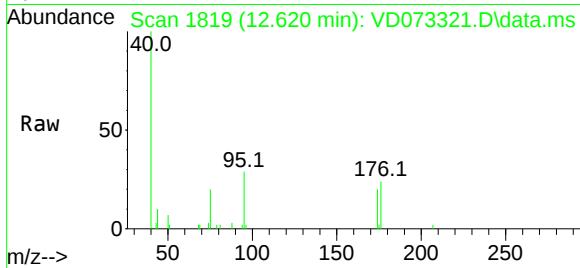




#62
4-Bromofluorobenzene
Concen: 49.024 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

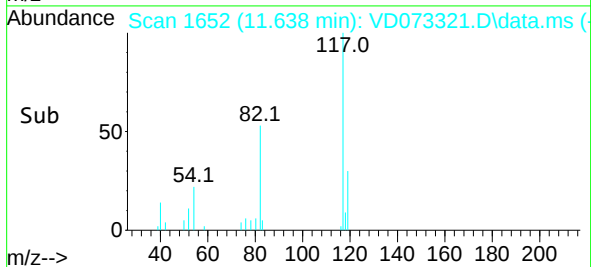
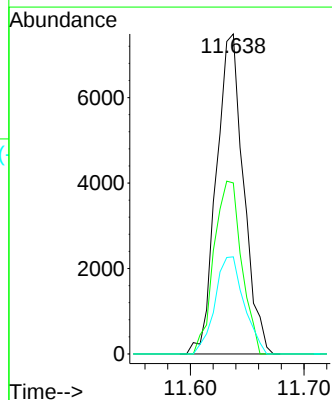
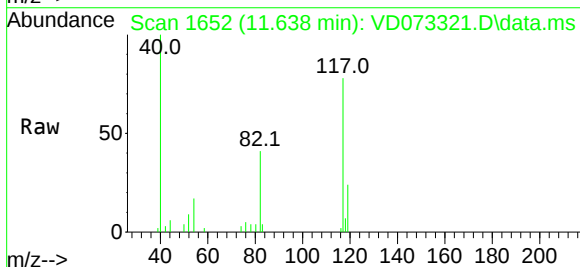
Instrument :
MSVOA_D
ClientSampleId :
BIN-4-SP-2

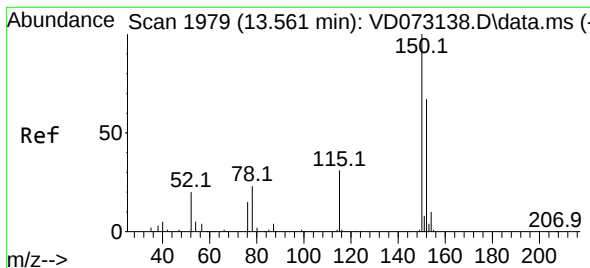
Tgt Ion: 95 Resp: 4423
Ion Ratio Lower Upper
95 100
174 80.1 0.0 152.8
176 80.9 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD073321.D
Acq: 24 May 2022 13:28

Tgt Ion: 117 Resp: 12481
Ion Ratio Lower Upper
117 100
82 53.4 45.3 67.9
119 30.3 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

BIN-4-SP-2

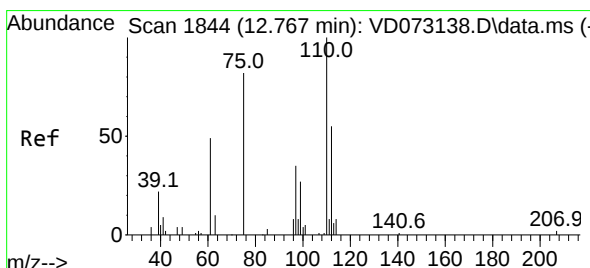
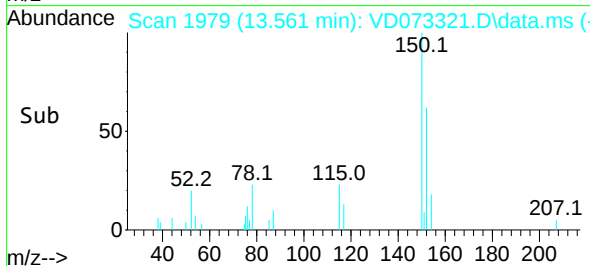
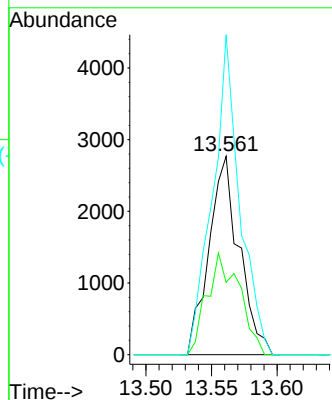
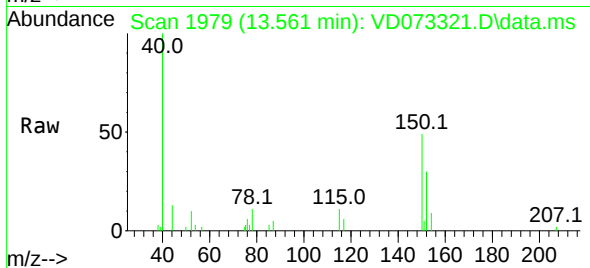
Tgt Ion:152 Resp: 4441

Ion Ratio Lower Upper

152 100

115 54.9 31.3 93.8

150 145.0 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 60.082 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.147 min

Lab File: VD073321.D

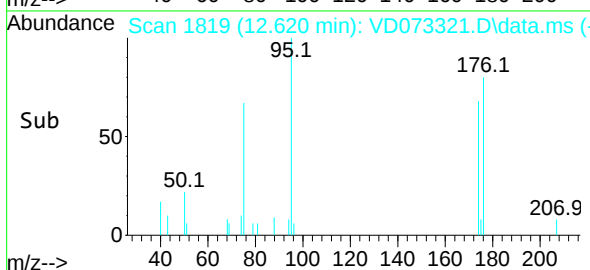
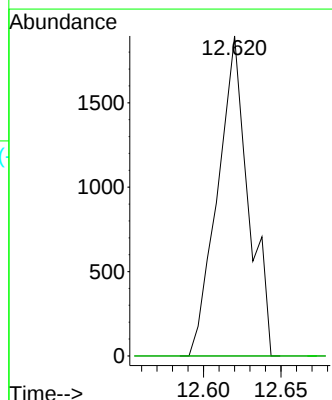
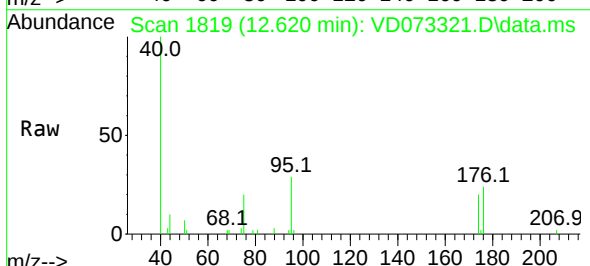
Acq: 24 May 2022 13:28

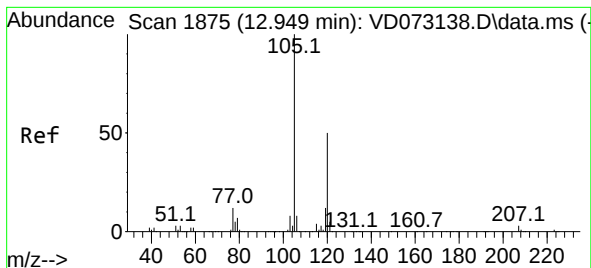
Tgt Ion: 75 Resp: 2618

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#80

1,3,5-Trimethylbenzene

Concen: 1.726 ug/l

RT: 12.949 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

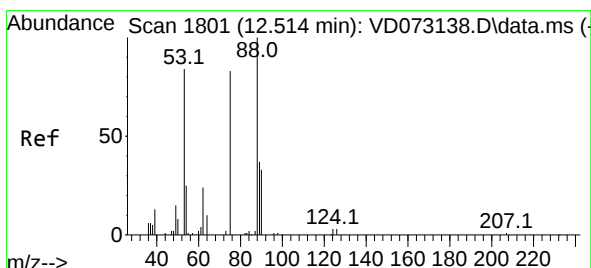
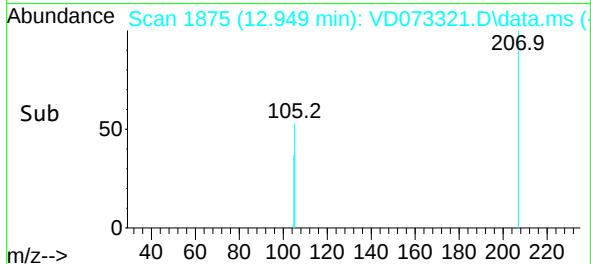
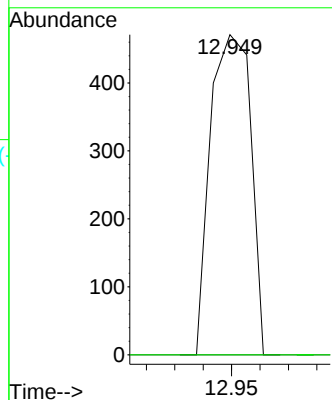
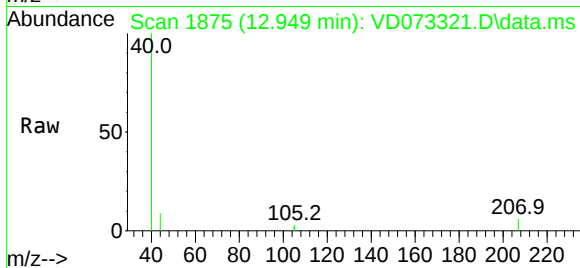
BIN-4-SP-2

Tgt Ion:105 Resp: 463

Ion Ratio Lower Upper

105 100

120 0.0 24.3 72.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 144.238 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. 0.106 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

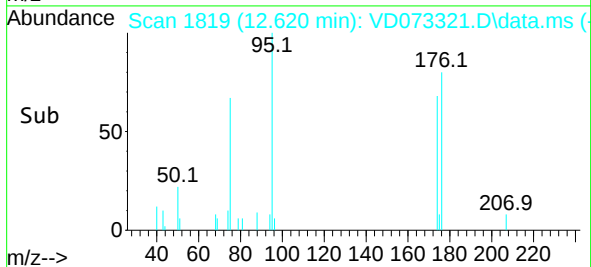
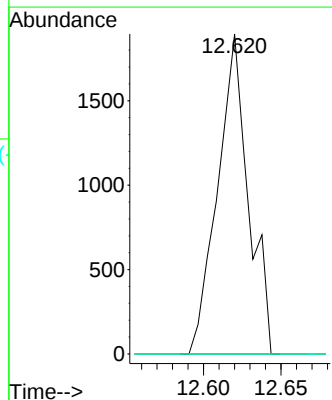
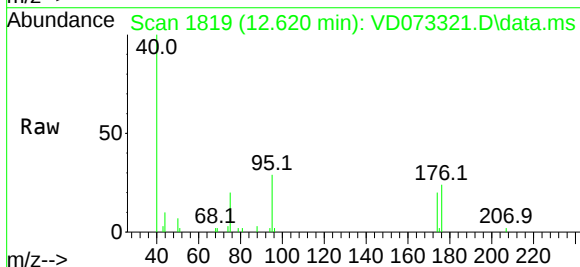
Tgt Ion: 75 Resp: 2618

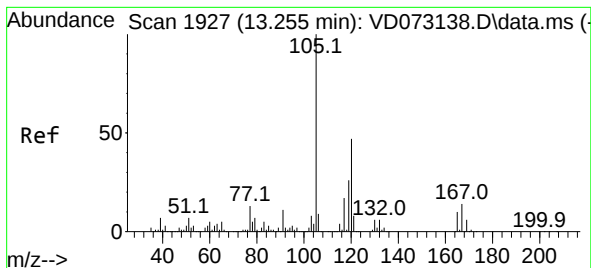
Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

89 0.0 33.9 50.9#





#84

1,2,4-Trimethylbenzene

Concen: 4.141 ug/l

RT: 13.267 min Scan# 1929

Delta R.T. 0.012 min

Lab File: VD073321.D

Acq: 24 May 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

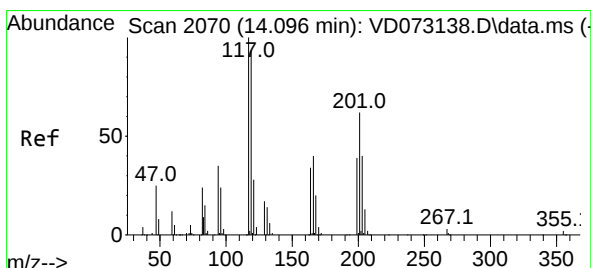
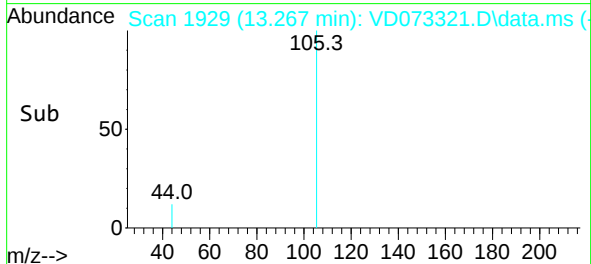
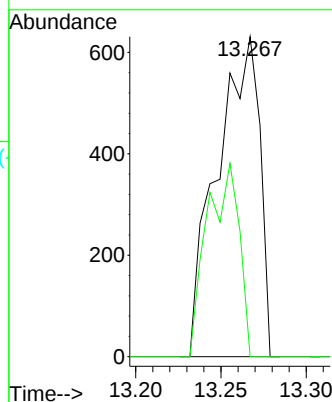
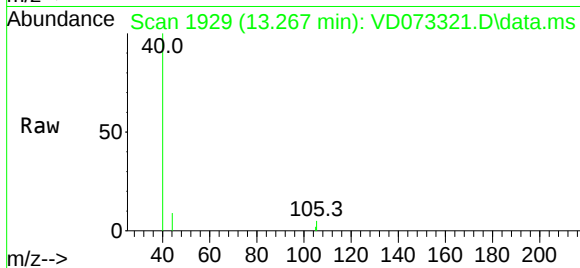
BIN-4-SP-2

Tgt Ion:105 Resp: 1097

Ion Ratio Lower Upper

105 100

120 45.3 22.3 66.8



#90

Hexachloroethane

Concen: 4.226 ug/l

RT: 14.102 min Scan# 2071

Delta R.T. 0.006 min

Lab File: VD073321.D

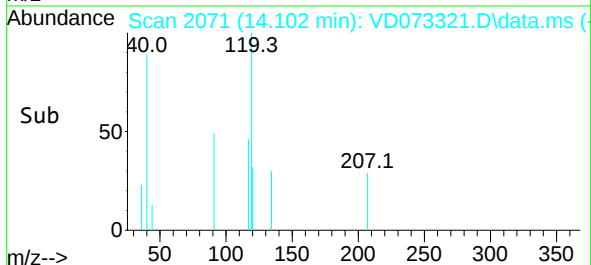
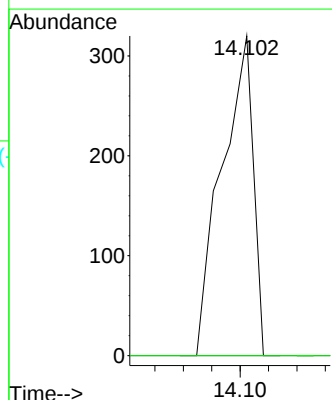
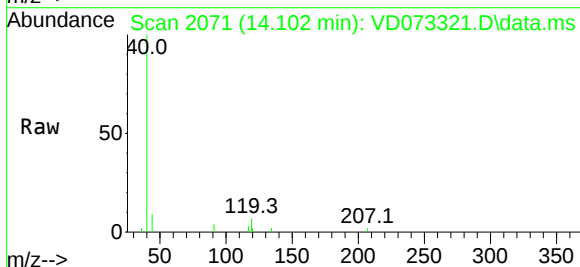
Acq: 24 May 2022 13:28

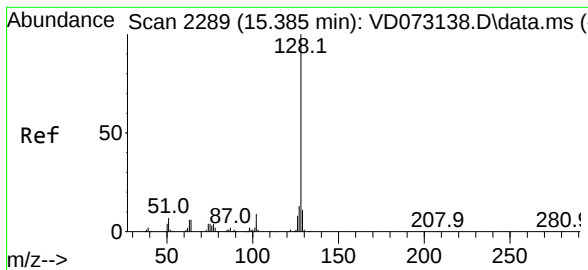
Tgt Ion:117 Resp: 246

Ion Ratio Lower Upper

117 100

201 0.0 33.4 100.2#





#95
 Naphthalene
 Concen: 31.558 ug/l
 RT: 15.379 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VD073321.D
 Acq: 24 May 2022 13:28

Instrument :
 MSVOA_D
 ClientSampleId :
 BIN-4-SP-2

Tgt Ion:	128	Resp:	4382
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.3	15.5
129	11.5	8.4	12.6

