

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062722\
 Data File : VD073735.D
 Acq On : 27 Jun 2022 21:53
 Operator : VA/SY
 Sample : N3472-04
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20071

Quant Time: Jun 28 02:13:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D062722S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 27 16:20:04 2022
 Response via : Initial Calibration

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

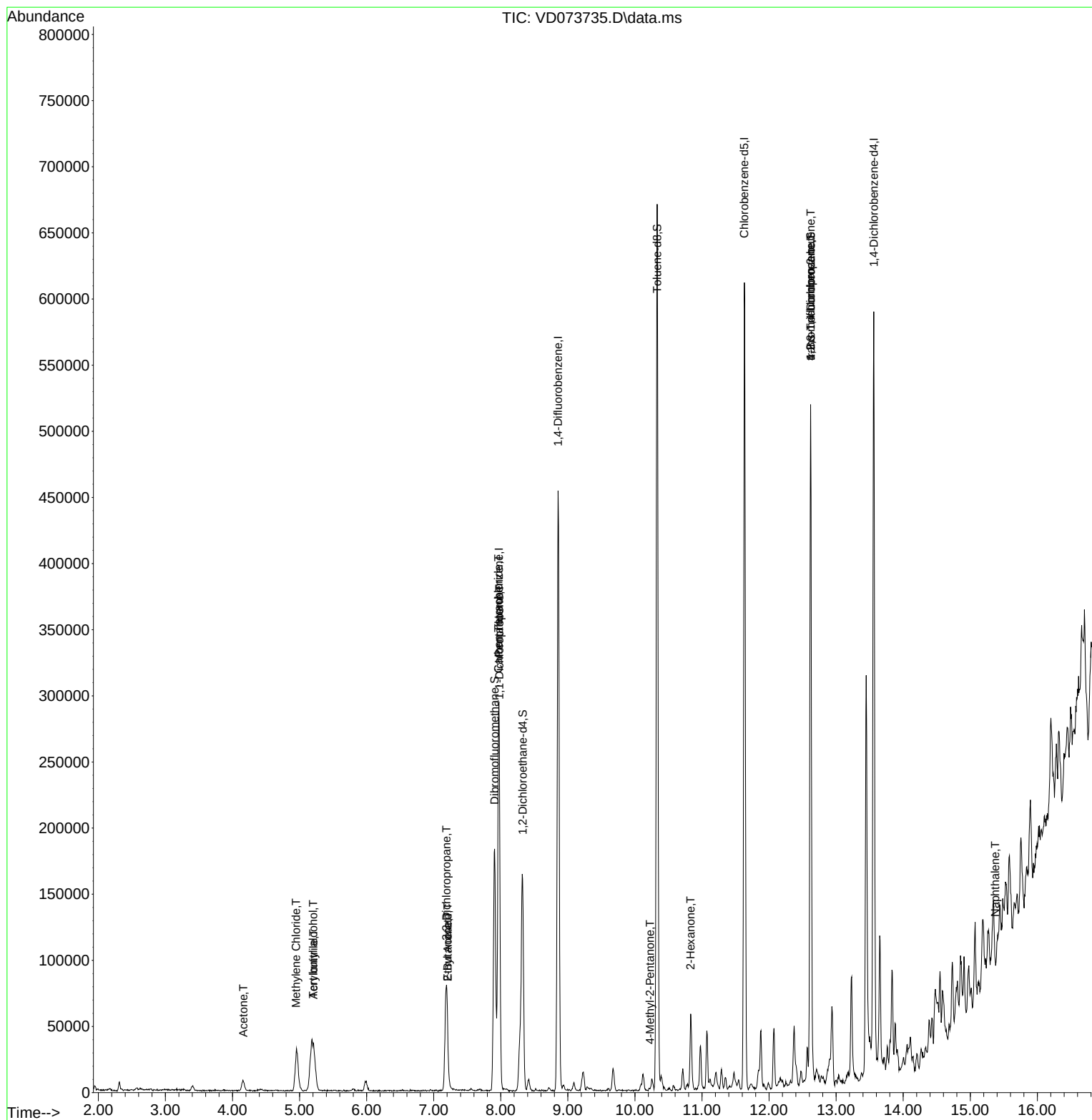
Internal Standards						
1) Pentafluorobenzene	7.973	168	216196	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	393832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.631	117	350531	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	152933	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	137590	80.514	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	161.020%
35) Dibromofluoromethane	7.908	113	130498	57.420	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	114.840%
50) Toluene-d8	10.331	98	457527	59.368	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	118.740%
62) 4-Bromofluorobenzene	12.620	95	156166	49.207	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	98.420%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.991	85	430	Below Cal	#	44
4) Vinyl Chloride	2.338	62	259	Below Cal	#	40
5) Bromomethane	2.779	94	740	Below Cal	#	80
11) Tert butyl alcohol	5.202	59	67351	322.672	ug/l #	100
15) Acrylonitrile	5.208	53	507	1.189	ug/l #	24
16) Acetone	4.161	43	13870	40.376	ug/l	99
18) Methyl Acetate	4.691	43	57	Below Cal	#	50
20) Methylene Chloride	4.949	84	25249	2.325	ug/l	86
25) 2-Butanone	7.208	43	5447	10.651	ug/l #	81
26) 2,2-Dichloropropane	7.190	77	6336	1.927	ug/l #	55
31) Cyclohexane	7.967	56	4938	Below Cal	#	20
36) 1,1-Dichloropropene	7.979	75	17415	6.152	ug/l #	51
37) Ethyl Acetate	7.208	43	5447	4.223	ug/l #	1
38) Carbon Tetrachloride	7.967	117	22251	6.414	ug/l #	15
51) 4-Methyl-2-Pentanone	10.226	43	1474	1.105	ug/l #	85
59) 2-Hexanone	10.831	43	37335	41.249	ug/l	71
76) 1,2,3-Trichloropropane	12.620	75	84391	73.757	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	84391	150.227	ug/l #	11
95) Naphthalene	15.372	128	5434	1.189	ug/l #	89

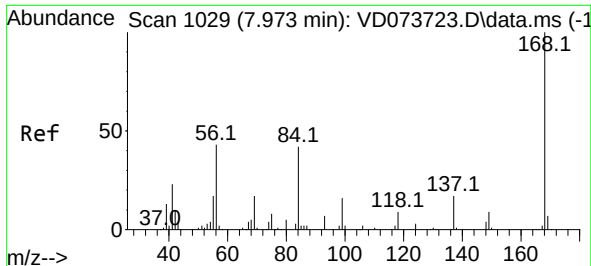
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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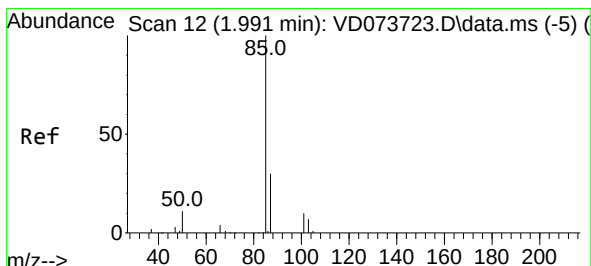
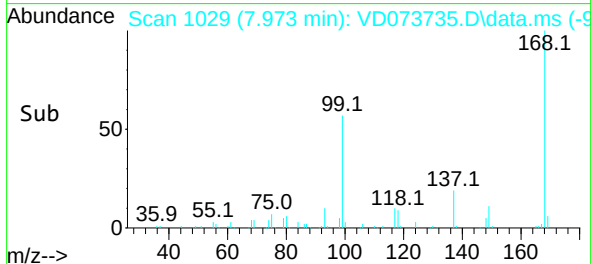
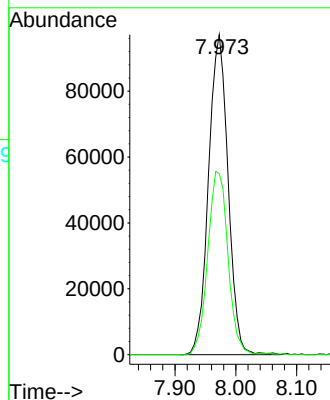
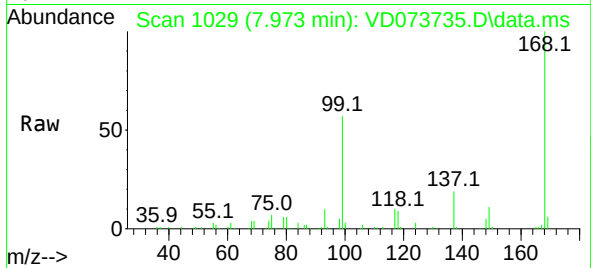




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.000 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

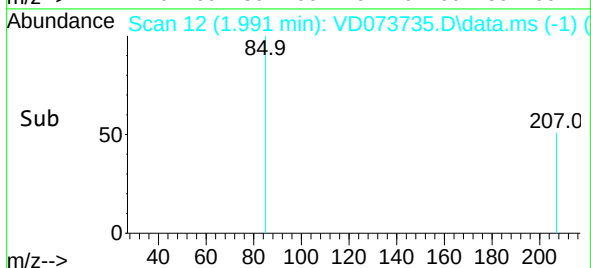
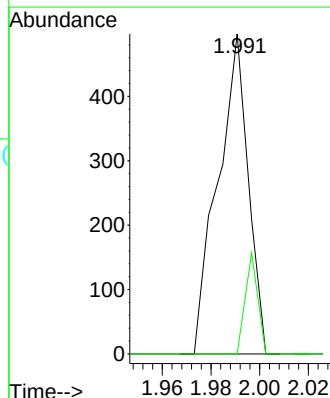
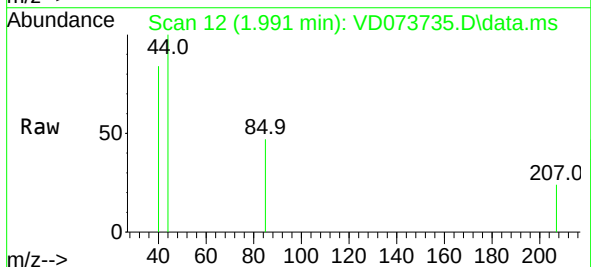
Instrument :
MSVOA_D
ClientSampleId :
20071

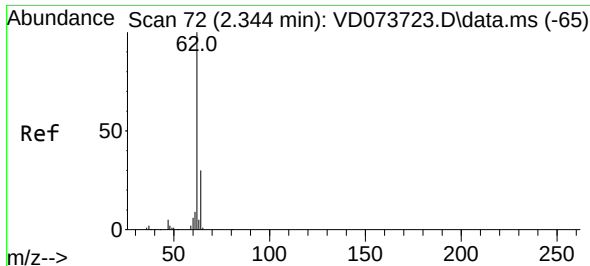
Tgt Ion:168 Resp: 216196
Ion Ratio Lower Upper
168 100
99 56.6 46.4 69.6



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.991 min Scan# 12
Delta R.T. -0.000 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Tgt Ion: 85 Resp: 430
Ion Ratio Lower Upper
85 100
87 0.0 15.2 45.5#

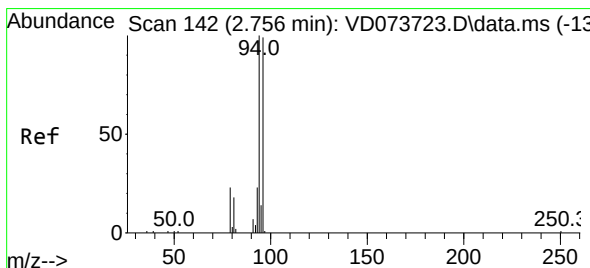
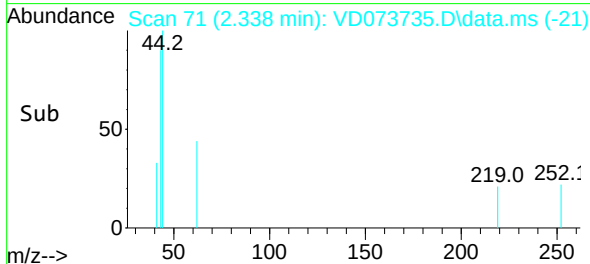
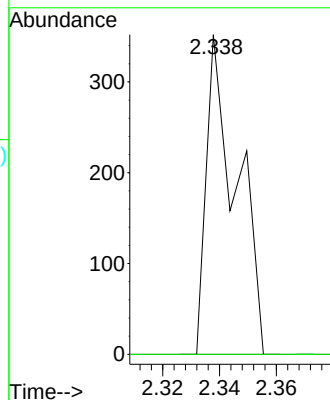
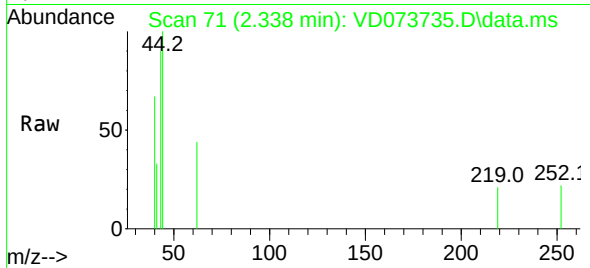




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 2.338 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VD073735.D
 Acq: 27 Jun 2022 21:53

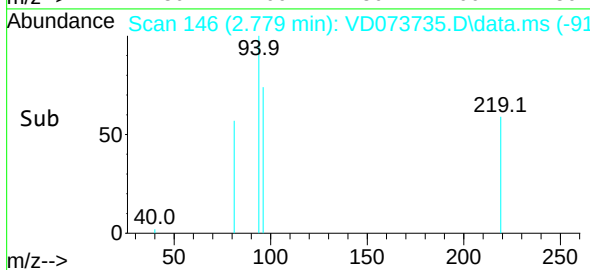
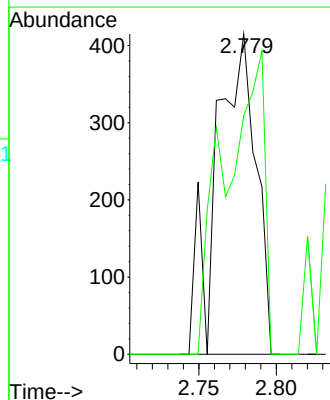
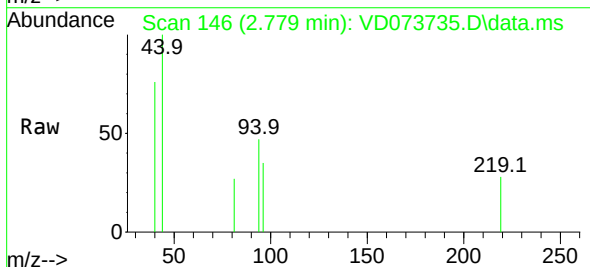
Instrument :
 MSVOA_D
 ClientSampleId :
 20071

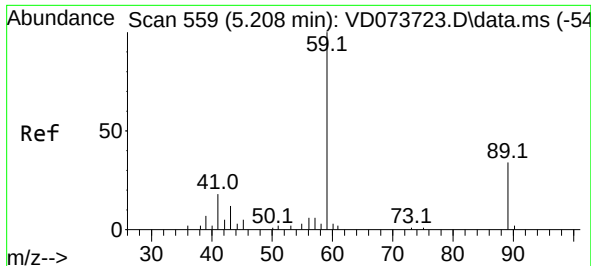
Tgt Ion: 62 Resp: 259
 Ion Ratio Lower Upper
 62 100
 64 0.0 27.8 41.6#



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.779 min Scan# 146
 Delta R.T. 0.023 min
 Lab File: VD073735.D
 Acq: 27 Jun 2022 21:53

Tgt Ion: 94 Resp: 740
 Ion Ratio Lower Upper
 94 100
 96 74.5 75.1 112.7#





#11

Tert butyl alcohol

Concen: 322.672 ug/l

RT: 5.202 min Scan# 51

Delta R.T. -0.006 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

Instrument :

MSVOA_D

ClientSampleId :

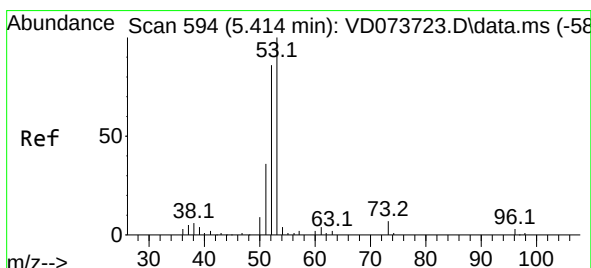
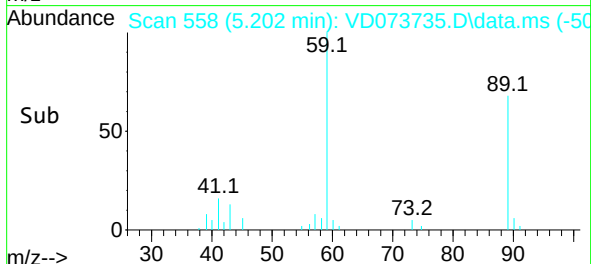
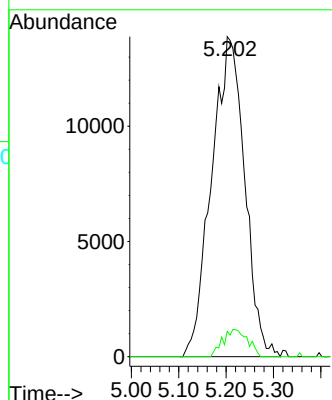
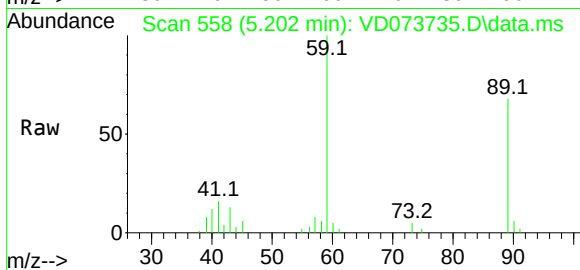
20071

Tgt Ion: 59 Resp: 67351

Ion Ratio Lower Upper

59 100

57 6.4 0.0 0.0#



#15

Acrylonitrile

Concen: 1.189 ug/l

RT: 5.208 min Scan# 559

Delta R.T. -0.206 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

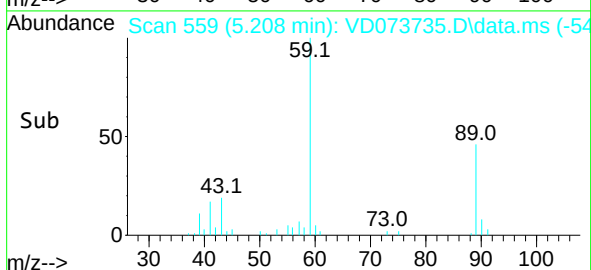
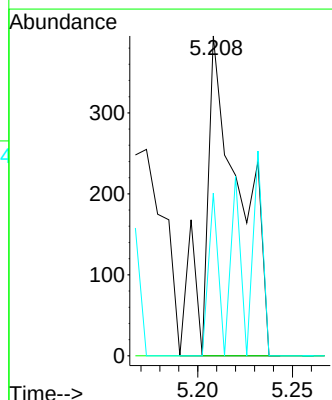
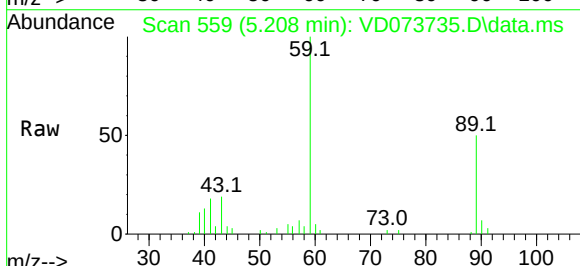
Tgt Ion: 53 Resp: 507

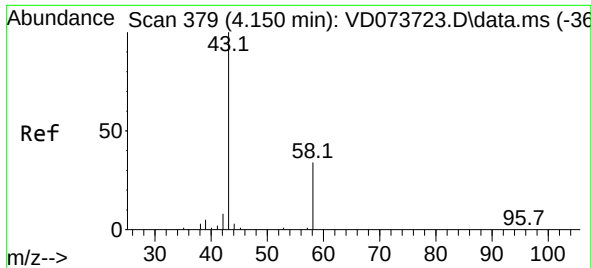
Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 14.0 30.2 45.2#

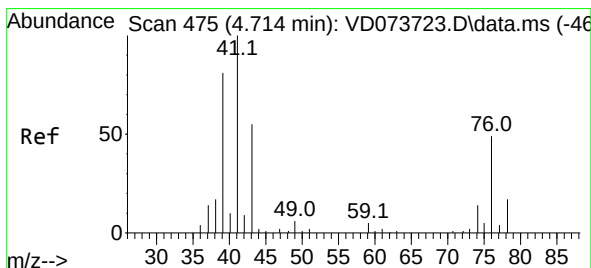
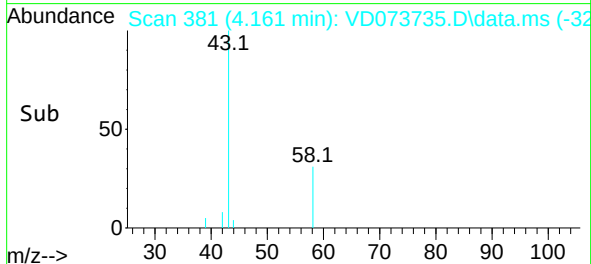
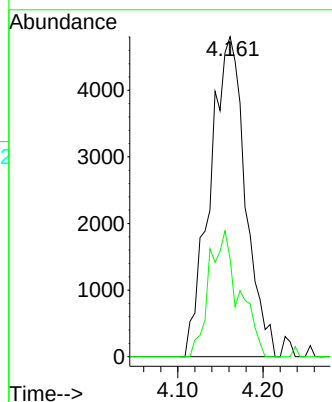
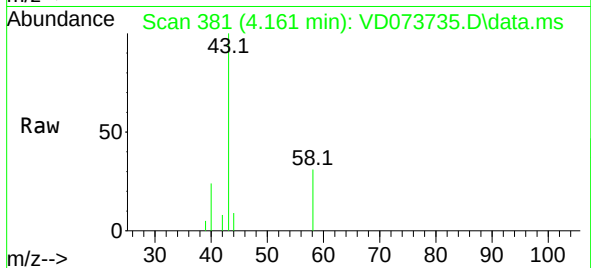




#16
Acetone
Concen: 40.376 ug/l
RT: 4.161 min Scan# 31
Delta R.T. 0.011 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

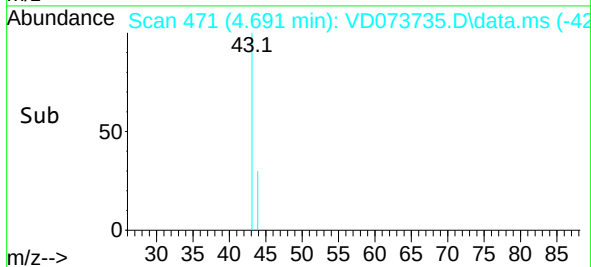
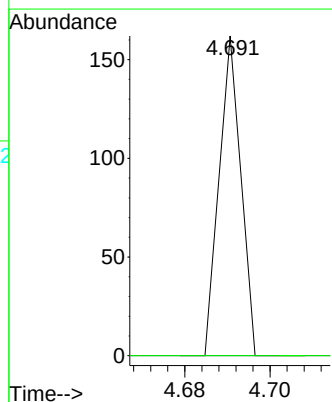
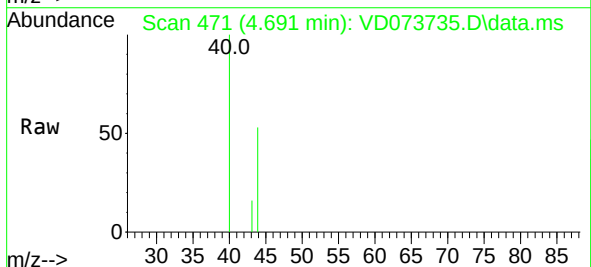
Instrument :
MSVOA_D
ClientSampleId :
20071

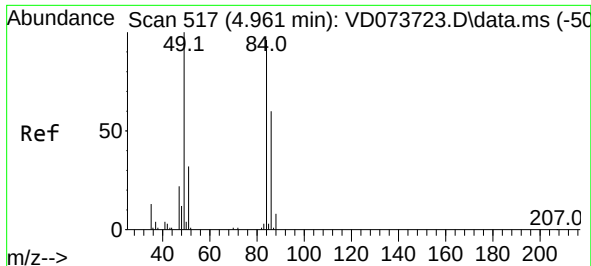
Tgt Ion: 43 Resp: 13870
Ion Ratio Lower Upper
43 100
58 30.7 25.2 37.8



#18
Methyl Acetate
Concen: Below Cal
RT: 4.691 min Scan# 471
Delta R.T. -0.023 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

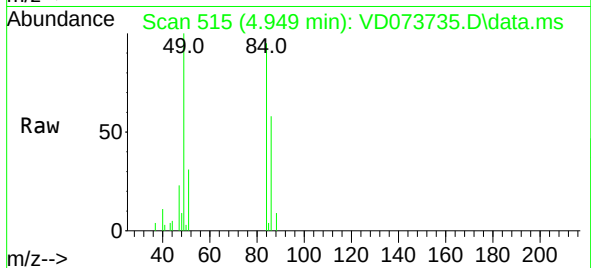
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.4#





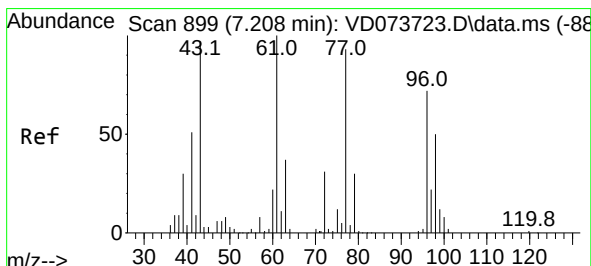
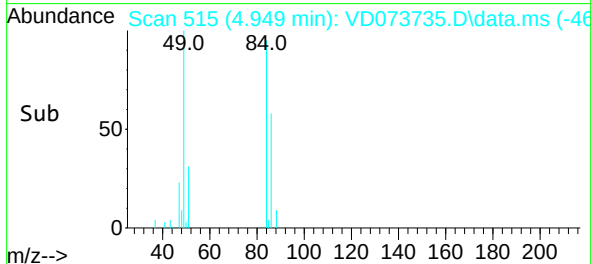
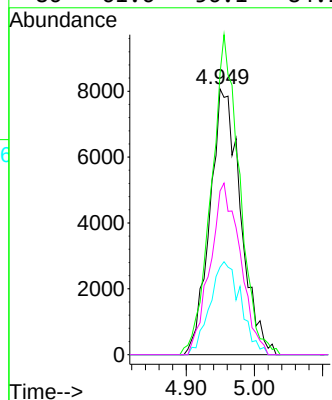
#20
Methylene Chloride
Concen: 2.325 ug/l
RT: 4.949 min Scan# 517
Delta R.T. -0.012 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Instrument :
MSVOA_D
ClientSampleId :
20071



Tgt Ion: 84 Resp: 25249

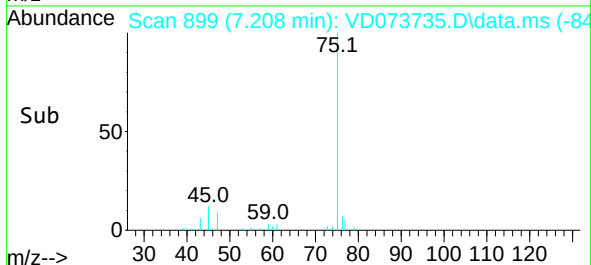
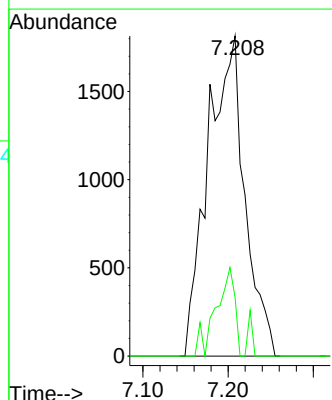
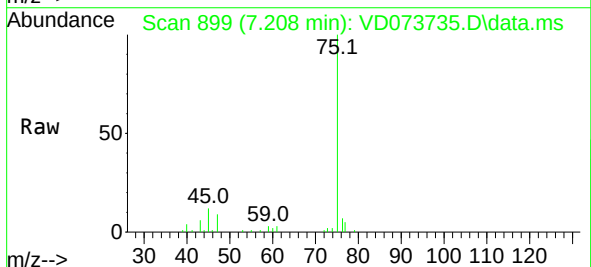
Ion	Ratio	Lower	Upper
84	100		
49	105.7	100.6	150.8
51	32.9	29.8	44.6
86	61.6	56.1	84.1

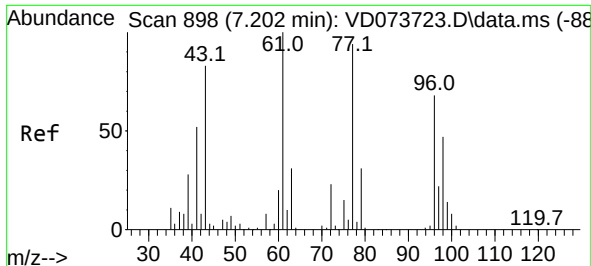


#25
2-Butanone
Concen: 10.651 ug/l
RT: 7.208 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Tgt Ion: 43 Resp: 5447

Ion	Ratio	Lower	Upper
43	100		
72	18.3	22.6	33.8#

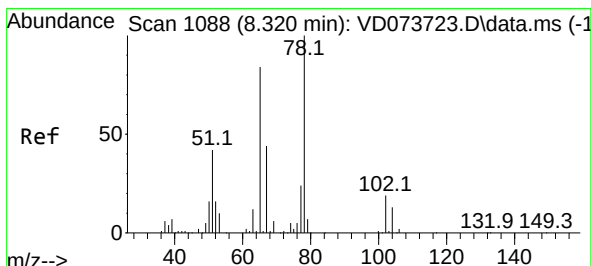
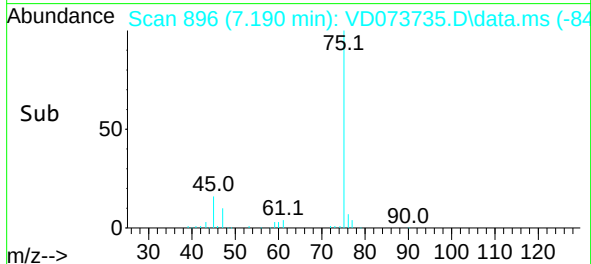
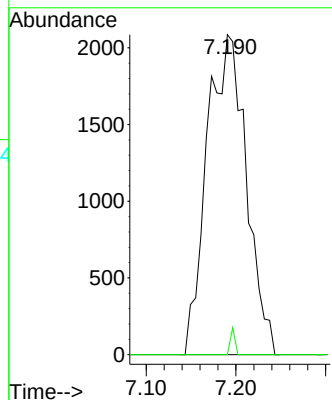
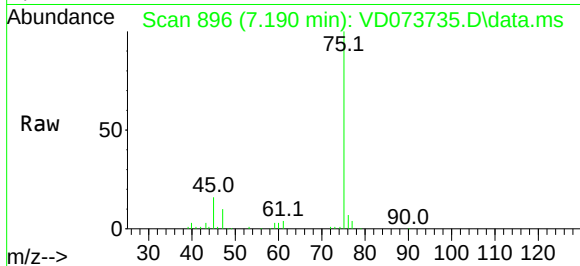




#26
2,2-Dichloropropane
Concen: 1.927 ug/l
RT: 7.190 min Scan# 896
Delta R.T. -0.012 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

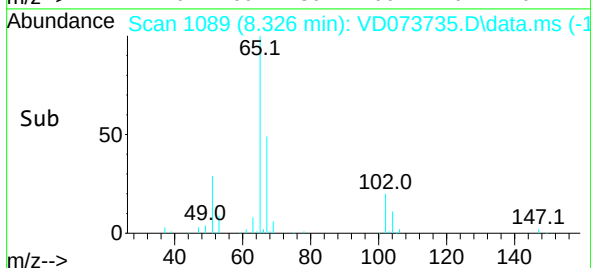
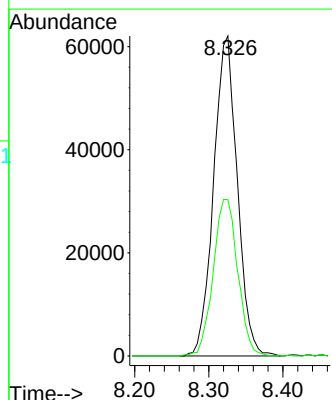
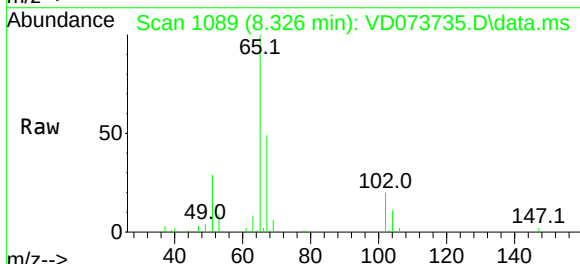
Instrument :
MSVOA_D
ClientSampleId :
20071

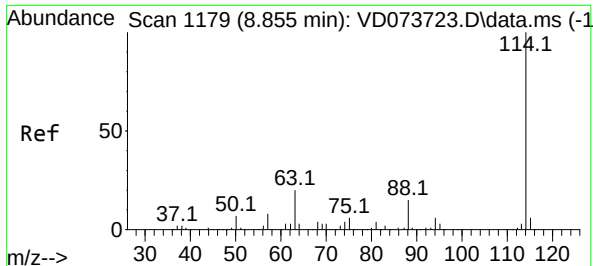
Tgt Ion: 77 Resp: 6336
Ion Ratio Lower Upper
77 100
97 1.0 11.2 33.6#



#33
1,2-Dichloroethane-d4
Concen: 80.514 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.006 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Tgt Ion: 65 Resp: 137590
Ion Ratio Lower Upper
65 100
67 50.7 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

Instrument :

MSVOA_D

ClientSampleId :

20071

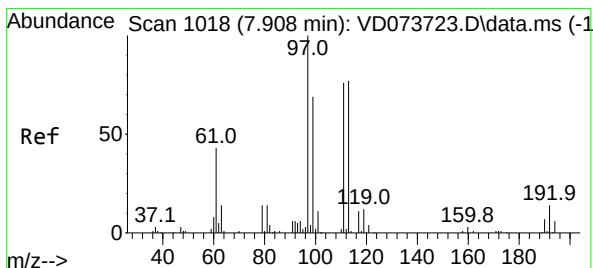
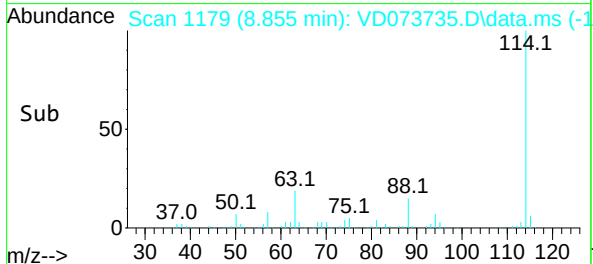
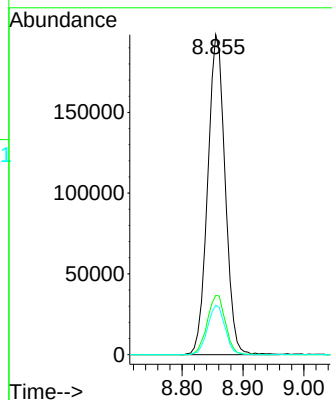
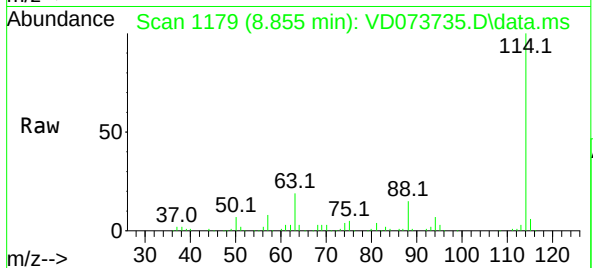
Tgt Ion:114 Resp: 393832

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.2

88 15.5 0.0 29.4



#35

Dibromofluoromethane

Concen: 57.420 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

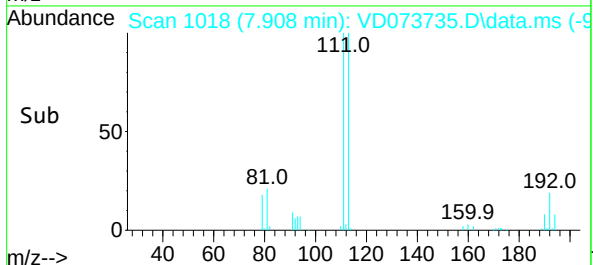
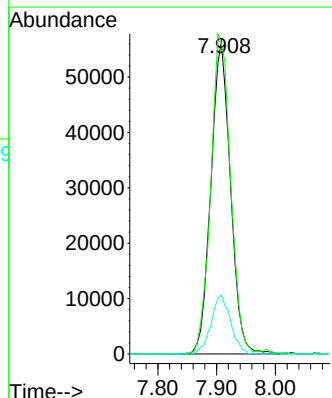
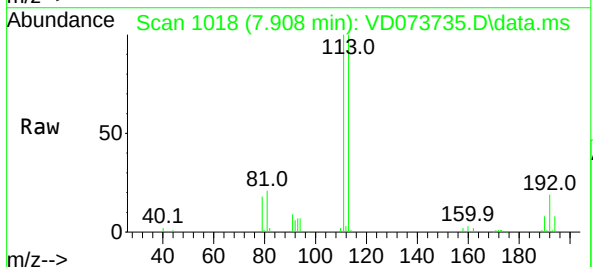
Tgt Ion:113 Resp: 130498

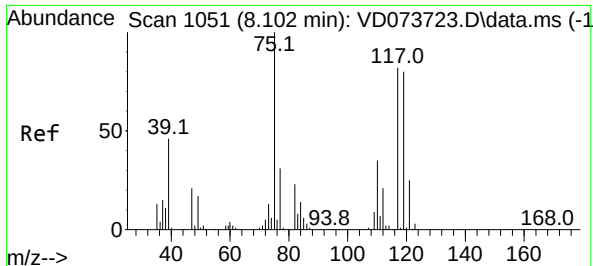
Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.6

192 18.8 14.8 22.2





#36

1,1-Dichloropropene

Concen: 6.152 ug/l

RT: 7.979 min Scan# 1

Delta R.T. -0.123 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

Instrument :

MSVOA_D

ClientSampleId :

20071

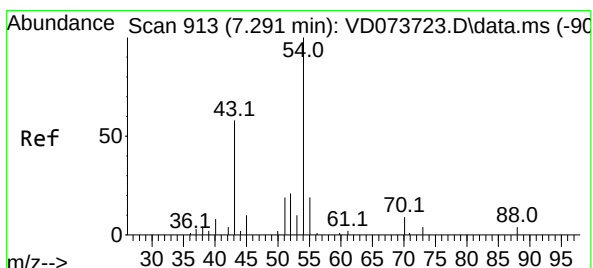
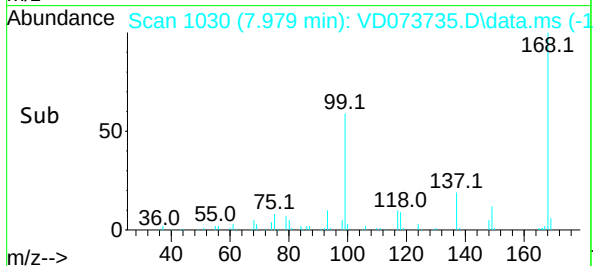
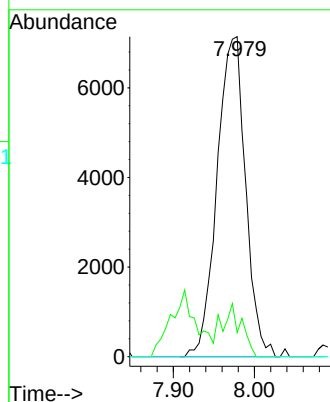
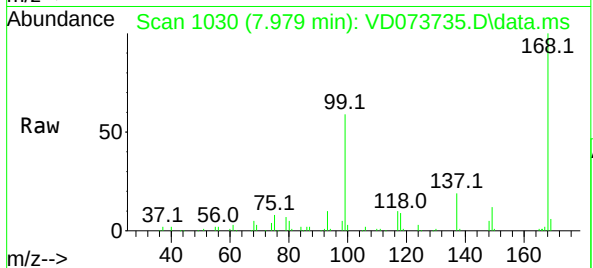
Tgt Ion: 75 Resp: 17415

Ion Ratio Lower Upper

75 100

110 11.4 18.0 54.0#

77 0.0 25.6 38.4#



#37

Ethyl Acetate

Concen: 4.223 ug/l

RT: 7.208 min Scan# 899

Delta R.T. -0.083 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

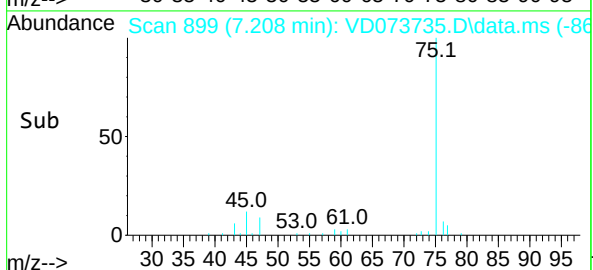
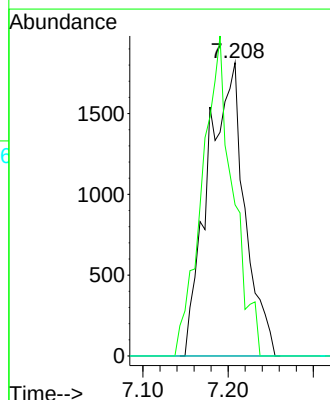
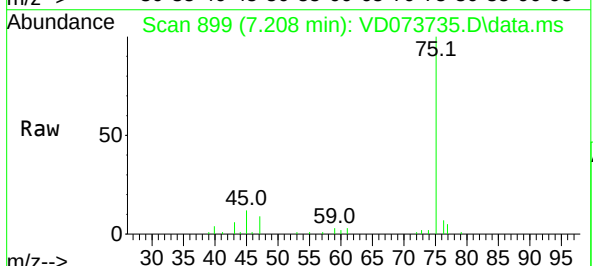
Tgt Ion: 43 Resp: 5447

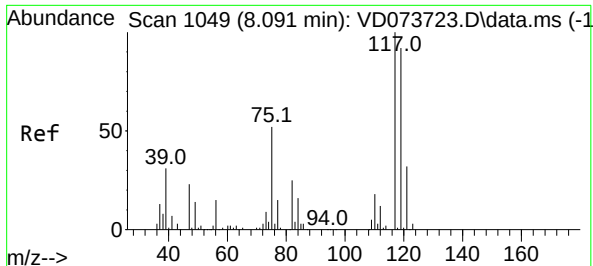
Ion Ratio Lower Upper

43 100

61 91.8 10.6 16.0#

70 0.0 9.9 14.9#

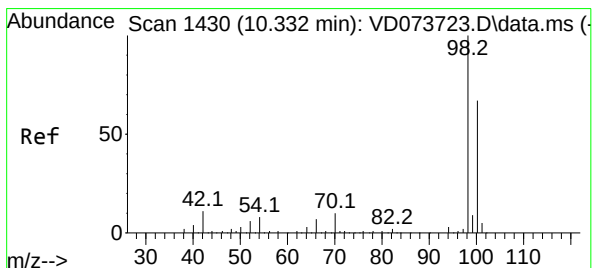
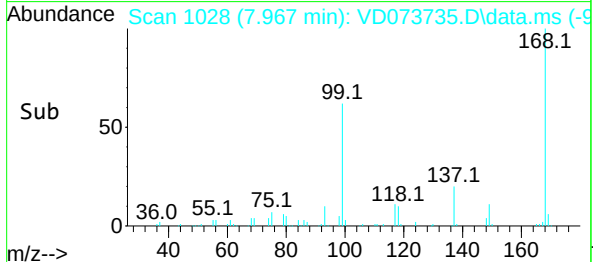
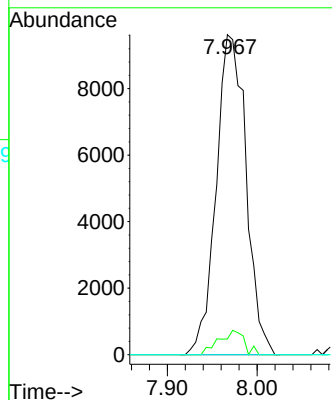
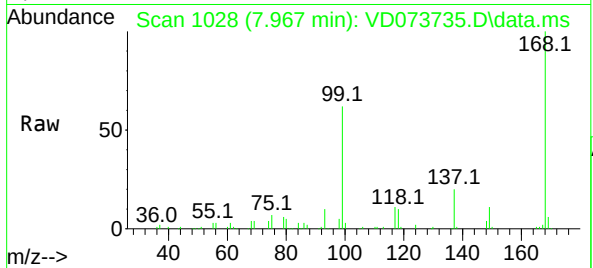




#38
Carbon Tetrachloride
Concen: 6.414 ug/l
RT: 7.967 min Scan# 1049
Delta R.T. -0.124 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

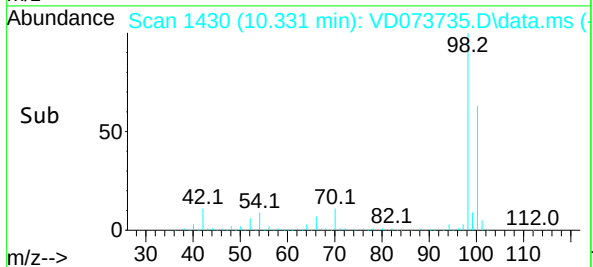
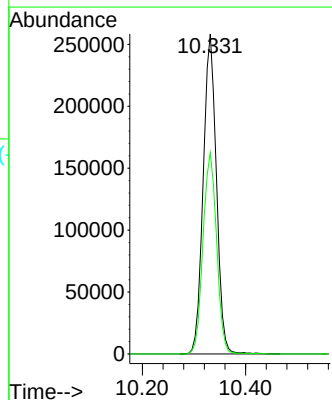
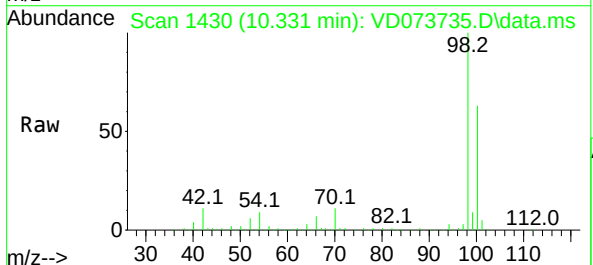
Instrument :
MSVOA_D
ClientSampleId :
20071

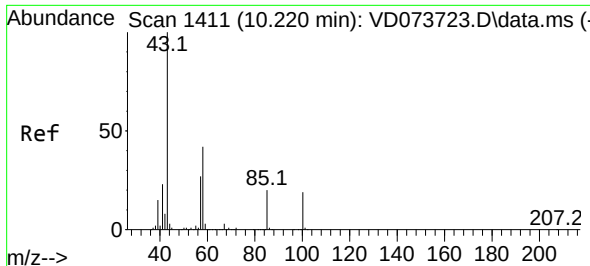
Tgt Ion:117 Resp: 22251
Ion Ratio Lower Upper
117 100
119 4.9 79.2 118.8#
121 0.0 23.8 35.8#



#50
Toluene-d8
Concen: 59.368 ug/l
RT: 10.331 min Scan# 1430
Delta R.T. -0.001 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Tgt Ion: 98 Resp: 457527
Ion Ratio Lower Upper
98 100
100 65.0 54.0 81.0

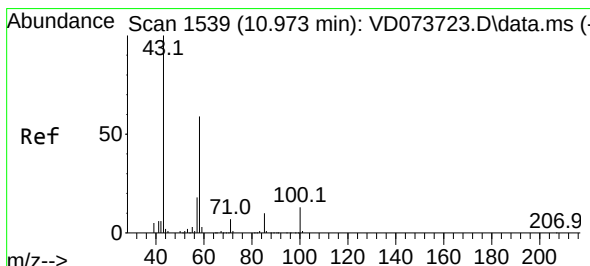
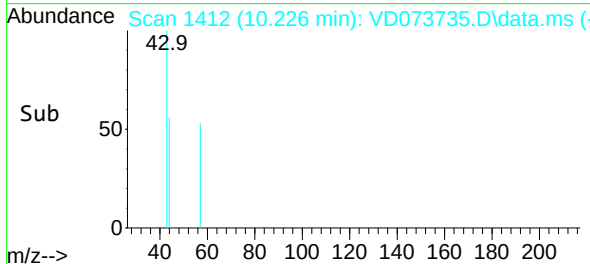
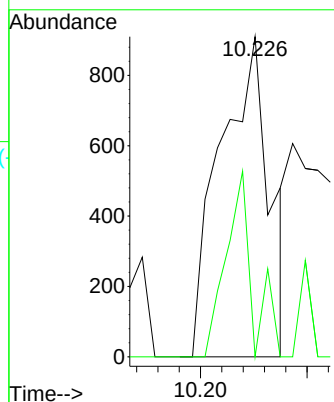
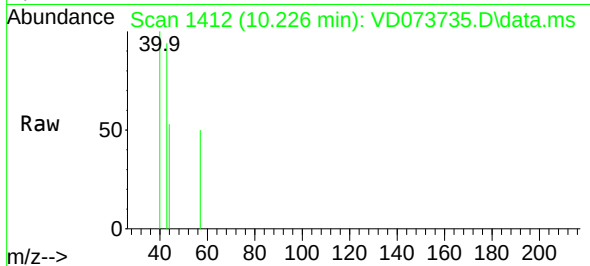




#51
4-Methyl-2-Pentanone
Concen: 1.105 ug/l
RT: 10.226 min Scan# 1411
Delta R.T. 0.006 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

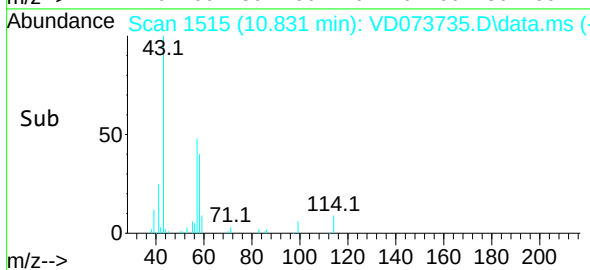
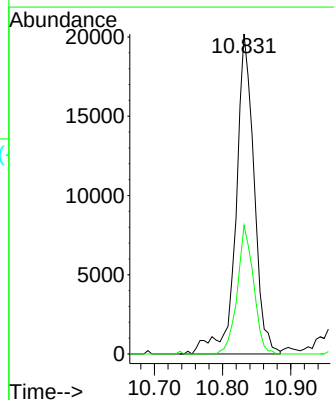
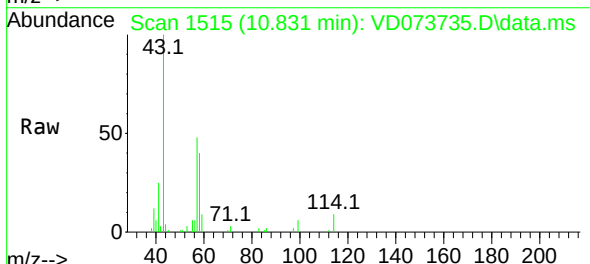
Instrument :
MSVOA_D
ClientSampleId :
20071

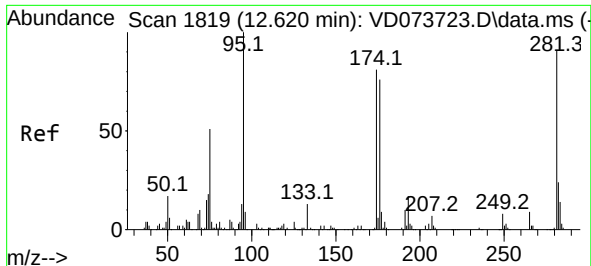
Tgt Ion: 43 Resp: 1474
Ion Ratio Lower Upper
43 100
58 31.0 32.3 48.5#



#59
2-Hexanone
Concen: 41.249 ug/l
RT: 10.831 min Scan# 1515
Delta R.T. -0.142 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Tgt Ion: 43 Resp: 37335
Ion Ratio Lower Upper
43 100
58 36.1 28.8 86.4





#62

4-Bromofluorobenzene

Concen: 49.207 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.000 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

Instrument :

MSVOA_D

ClientSampleId :

20071

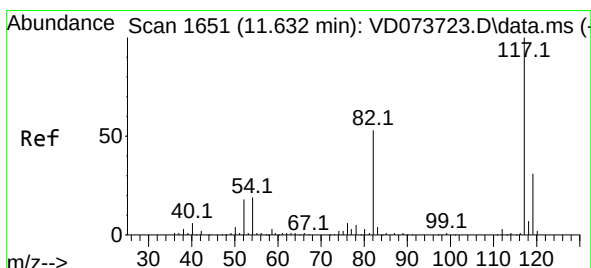
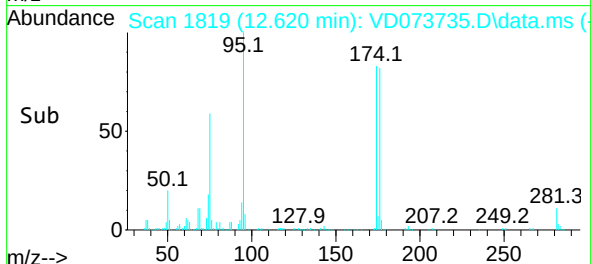
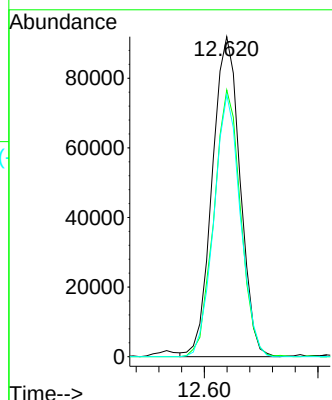
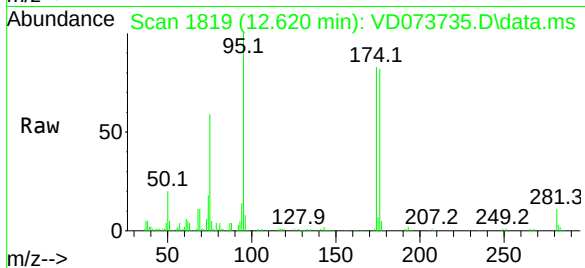
Tgt Ion: 95 Resp: 156166

Ion Ratio Lower Upper

95 100

174 80.0 0.0 158.4

176 77.9 0.0 154.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.631 min Scan# 1651

Delta R.T. -0.001 min

Lab File: VD073735.D

Acq: 27 Jun 2022 21:53

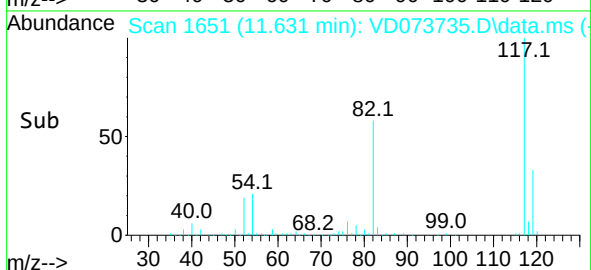
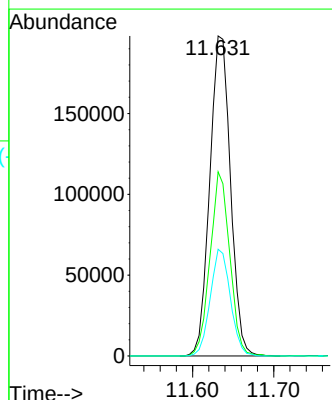
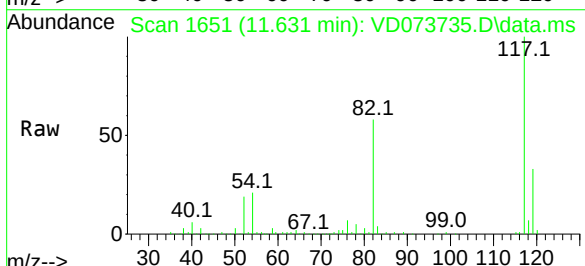
Tgt Ion: 117 Resp: 350531

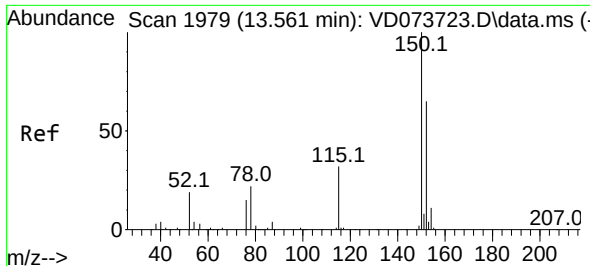
Ion Ratio Lower Upper

117 100

82 57.5 41.5 62.3

119 33.3 27.1 40.7

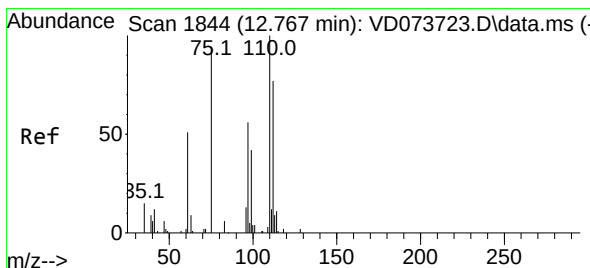
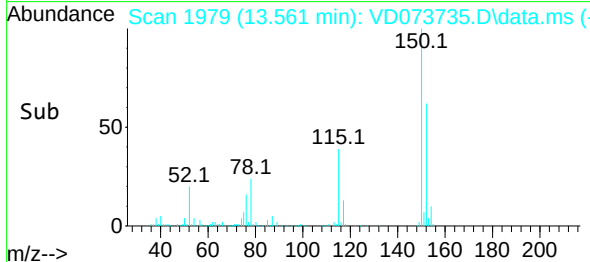
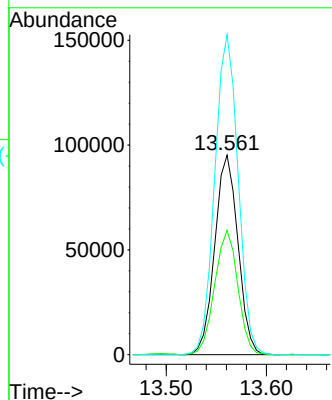
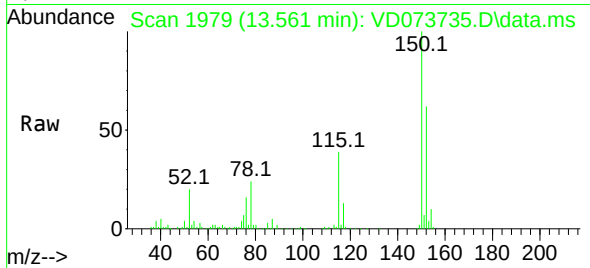




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.561 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VD073735.D
 Acq: 27 Jun 2022 21:53

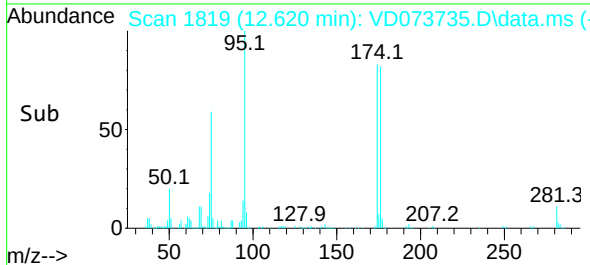
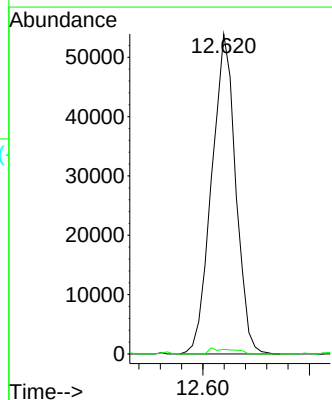
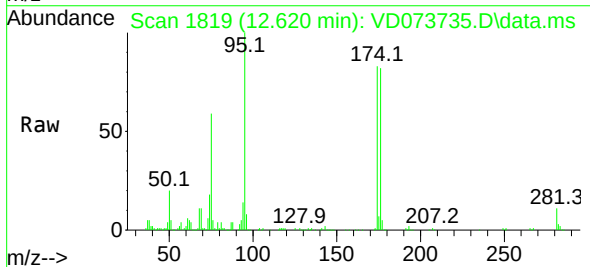
Instrument :
 MSVOA_D
 ClientSampleId :
 20071

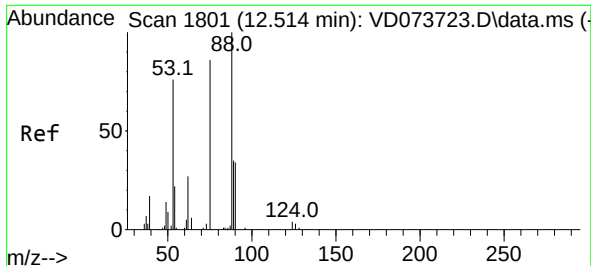
Tgt Ion:152 Resp: 152933
 Ion Ratio Lower Upper
 152 100
 115 62.2 30.6 91.6
 150 161.1 0.0 355.0



#76
 1,2,3-Trichloropropane
 Concen: 73.757 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. -0.147 min
 Lab File: VD073735.D
 Acq: 27 Jun 2022 21:53

Tgt Ion: 75 Resp: 84391
 Ion Ratio Lower Upper
 75 100
 77 1.8 195.3 586.0#

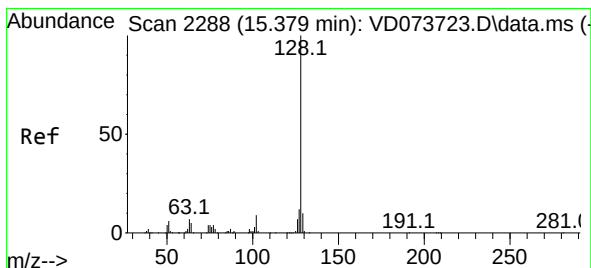
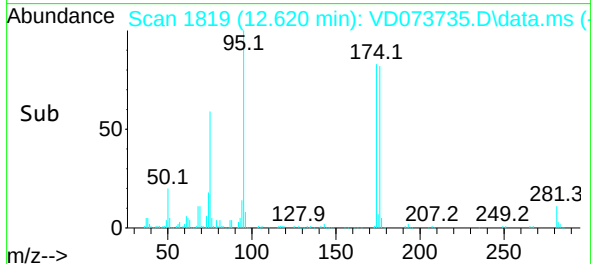
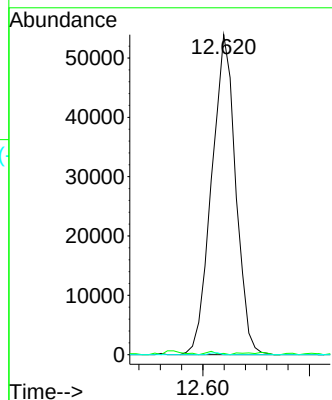
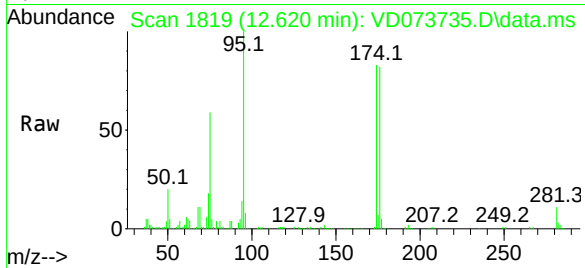




#81
trans-1,4-Dichloro-2-butene
Concen: 150.227 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Instrument :
MSVOA_D
ClientSampleId :
20071

Tgt Ion: 75 Resp: 84391
Ion Ratio Lower Upper
75 100
53 0.5 77.0 115.6#
89 0.2 37.8 56.8#



#95
Naphthalene
Concen: 1.189 ug/l
RT: 15.372 min Scan# 2287
Delta R.T. -0.007 min
Lab File: VD073735.D
Acq: 27 Jun 2022 21:53

Tgt Ion: 128 Resp: 5434
Ion Ratio Lower Upper
128 100
127 10.3 10.6 16.0#
129 16.7 8.9 13.3#

