

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060922\Not reviewed data\
 Data File : VD073513.D
 Acq On : 09 Jun 2022 16:50
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

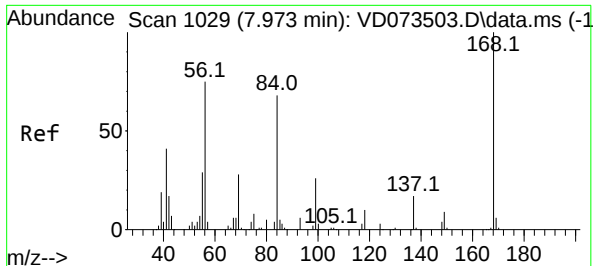
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 10 17:18:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060922S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 09 12:33:32 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.973	168	374229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	656152	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	728401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	374969	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	163973	40.830	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.660%
35) Dibromofluoromethane	7.908	113	195803	46.406	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.820%
50) Toluene-d8	10.332	98	1024124	64.197	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	128.400%
62) 4-Bromofluorobenzene	12.620	95	380952	65.781	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	131.560%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.291	142	1083	4.388	ug/l #	81
11) Tert butyl alcohol	5.167	59	3986	Below Cal	#	74
13) Acrolein	4.132	56	12551	70.959	ug/l #	80
14) Allyl chloride	4.797	41	6622	1.218	ug/l #	38
15) Acrylonitrile	5.485	53	36457	42.187	ug/l #	26
16) Acetone	4.132	43	36749	51.970	ug/l #	65
18) Methyl Acetate	4.944	43	166479	82.597	ug/l #	55
20) Methylene Chloride	4.961	84	29817	3.704	ug/l #	69
25) 2-Butanone	7.202	43	34263	32.931	ug/l #	56
26) 2,2-Dichloropropane	7.185	77	11004	1.632	ug/l #	54
29) Tetrahydrofuran	7.561	42	1128	1.699	ug/l #	38
31) Cyclohexane	7.973	56	251061	37.111	ug/l	97
38) Carbon Tetrachloride	7.967	117	38846	5.860	ug/l #	16
39) Methylcyclohexane	9.349	83	4377149	592.721	ug/l	97
41) Methacrylonitrile	7.549	41	4015	2.893	ug/l #	29
43) Isopropyl Acetate	8.443	43	238179	48.361	ug/l #	54
45) 1,2-Dichloropropane	9.343	63	40357	8.838	ug/l #	1
48) Methyl methacrylate	9.402	41	140550	57.612	ug/l #	19
51) 4-Methyl-2-Pentanone	10.326	43	130237	52.261	ug/l #	54
55) 1,1,2-Trichloroethane	10.767	97	385129	104.973	ug/l #	20
56) Ethyl methacrylate	10.632	69	68856	16.381	ug/l #	18
59) 2-Hexanone	10.943	43	397262	232.769	ug/l #	32
73) Isopropylbenzene	12.467	105	47007	1.809	ug/l	100
74) N-amyl acetate	12.255	43	114978	19.886	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.779	83	18713	3.793	ug/l #	25
76) 1,2,3-Trichloropropane	12.620	75	179504	49.278	ug/l #	100
77) Bromobenzene	12.920	156	42046	6.624	ug/l #	1
78) n-propylbenzene	12.808	91	56980	1.761	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.620	75	179504	115.664	ug/l #	8
95) Naphthalene	15.378	128	2012	4.340	ug/l #	74

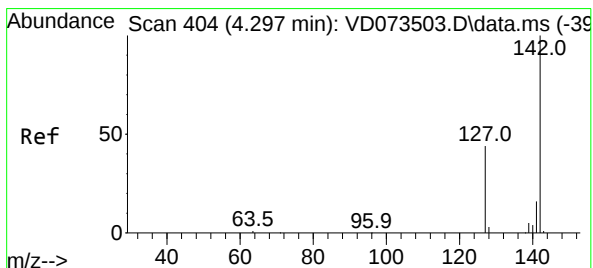
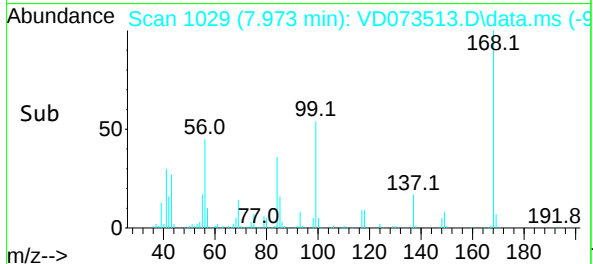
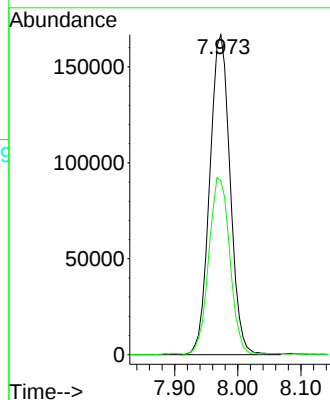
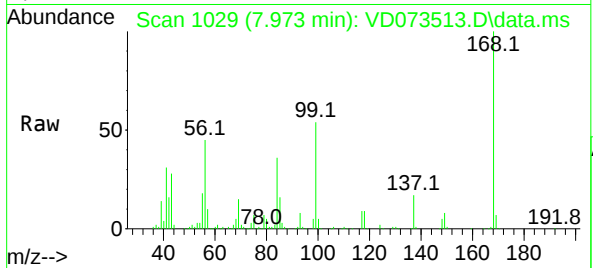
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.000 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

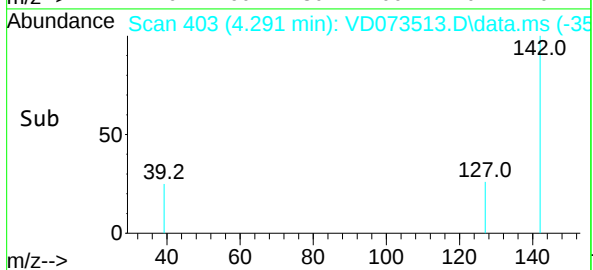
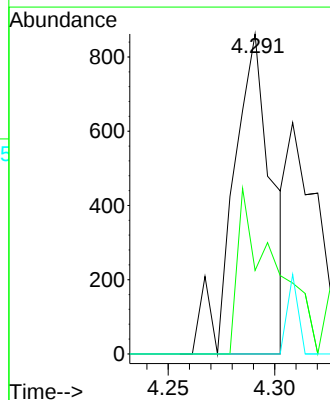
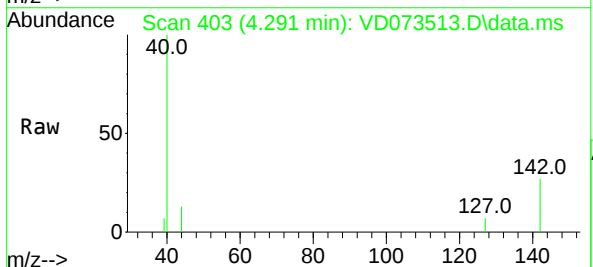
Instrument :
MSVOA_D
ClientSampleId :

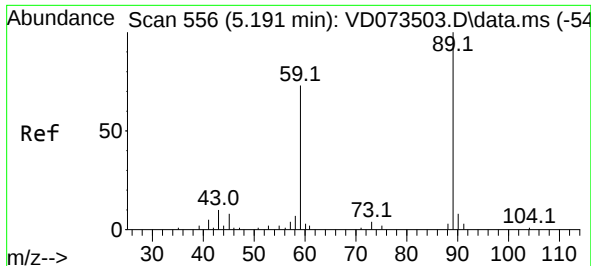
Tgt Ion:168 Resp: 374229
Ion Ratio Lower Upper
168 100
99 54.0 49.8 74.6



#10
Methyl Iodide
Concen: 4.388 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.006 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

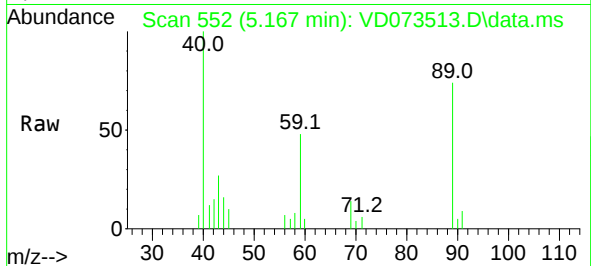
Tgt Ion:142 Resp: 1083
Ion Ratio Lower Upper
142 100
127 55.9 37.3 55.9
141 0.0 11.7 17.5#



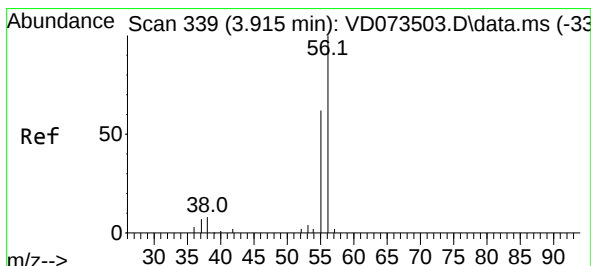
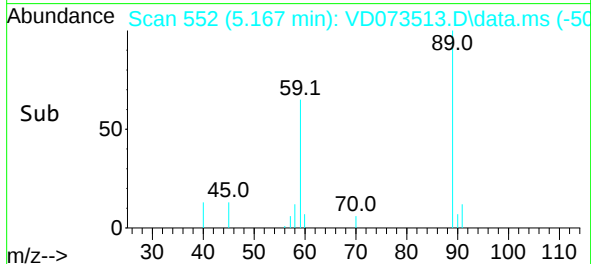
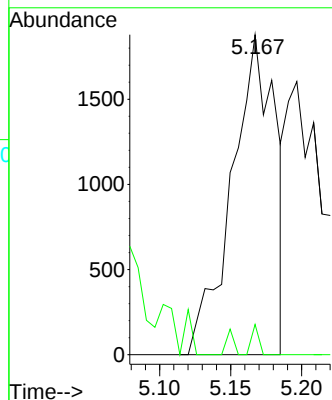


#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.167 min Scan# 51
Delta R.T. -0.024 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Instrument :
MSVOA_D
ClientSampleId :

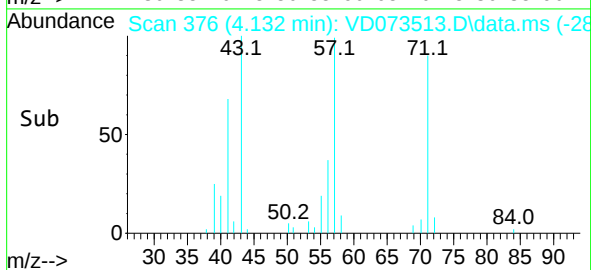
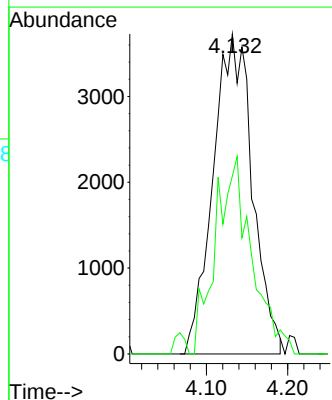
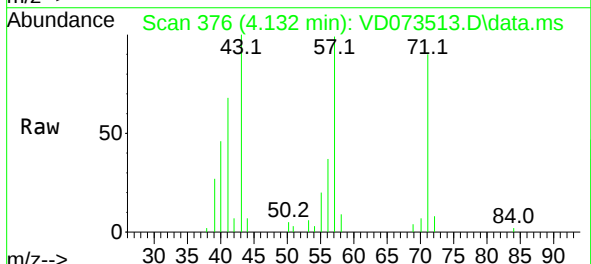


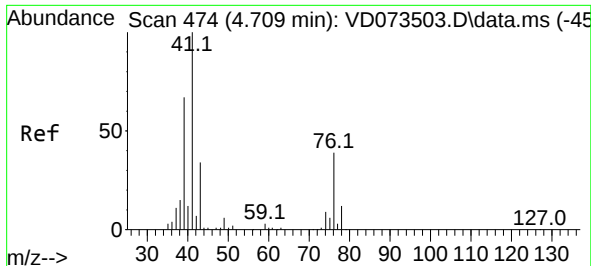
Tgt Ion: 59 Resp: 3986
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#13
Acrolein
Concen: 70.959 ug/l
RT: 4.132 min Scan# 376
Delta R.T. 0.217 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

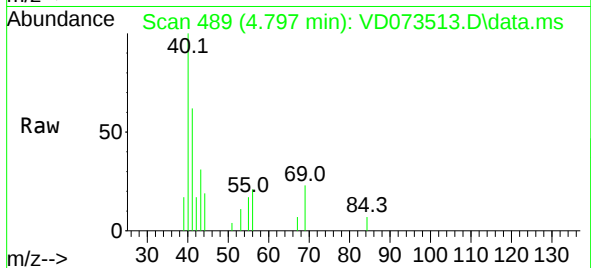
Tgt Ion: 56 Resp: 12551
Ion Ratio Lower Upper
56 100
55 55.1 57.1 85.7#



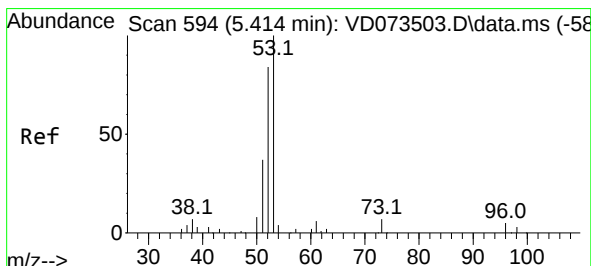
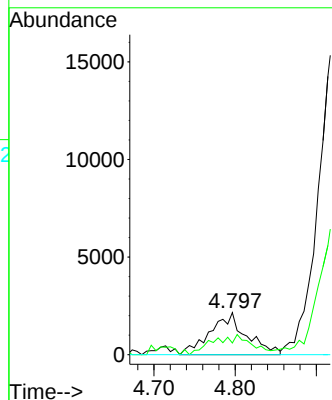
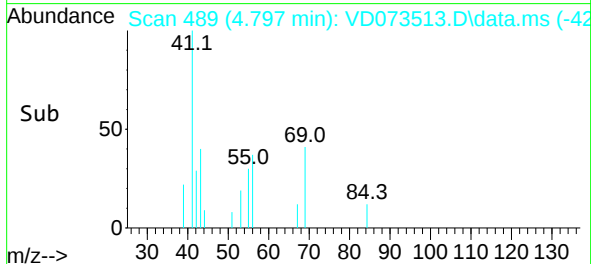


#14
 Allyl chloride
 Concen: 1.218 ug/l
 RT: 4.797 min Scan# 41
 Delta R.T. 0.088 min
 Lab File: VD073513.D
 Acq: 09 Jun 2022 16:50

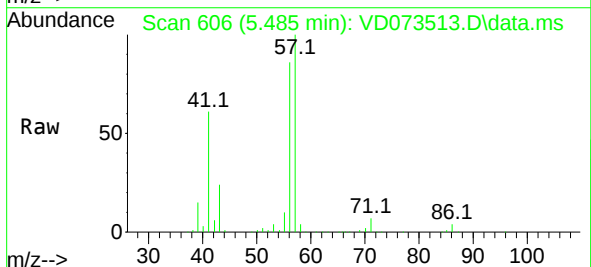
Instrument :
 MSVOA_D
 ClientSampleId :



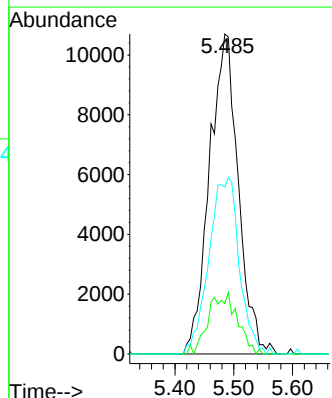
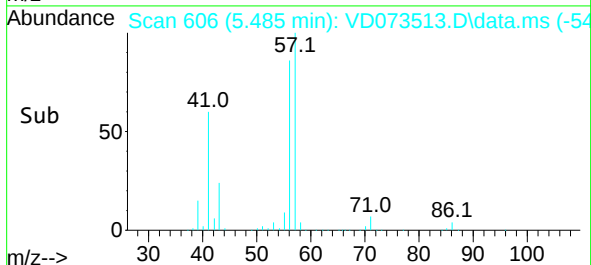
Tgt Ion: 41 Resp: 6622
 Ion Ratio Lower Upper
 41 100
 39 19.9 59.3 88.9#
 76 0.0 25.7 38.5#

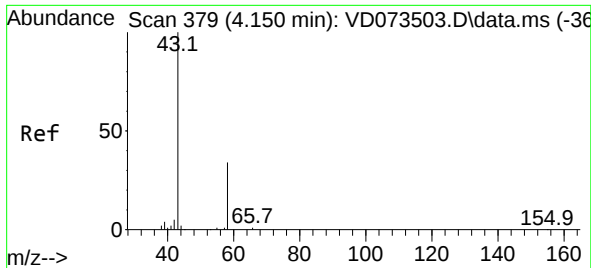


#15
 Acrylonitrile
 Concen: 42.187 ug/l
 RT: 5.485 min Scan# 606
 Delta R.T. 0.071 min
 Lab File: VD073513.D
 Acq: 09 Jun 2022 16:50



Tgt Ion: 53 Resp: 36457
 Ion Ratio Lower Upper
 53 100
 52 0.0 67.2 100.8#
 51 58.1 30.3 45.5#

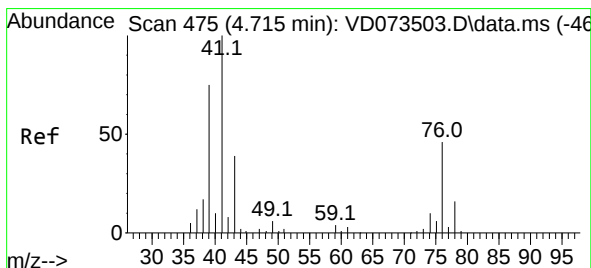
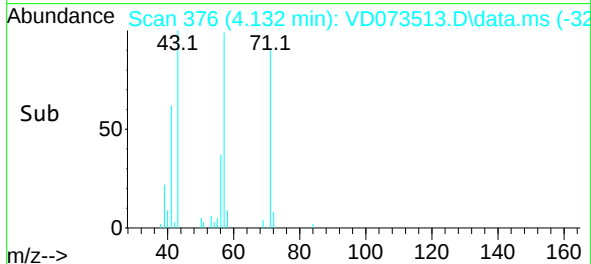
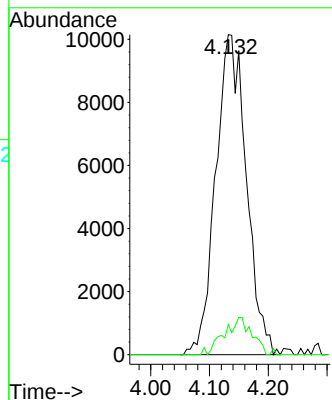
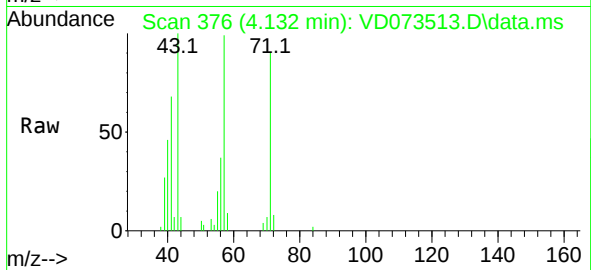




#16
Acetone
Concen: 51.970 ug/l
RT: 4.132 min Scan# 31
Delta R.T. -0.018 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

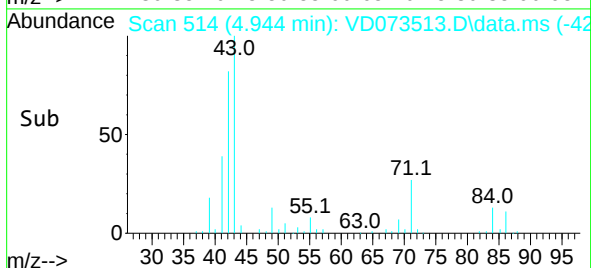
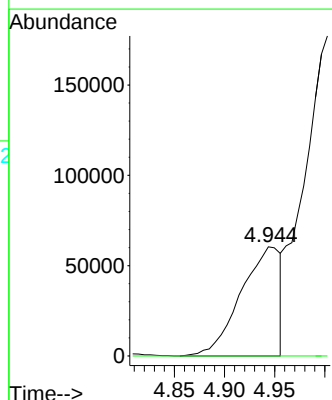
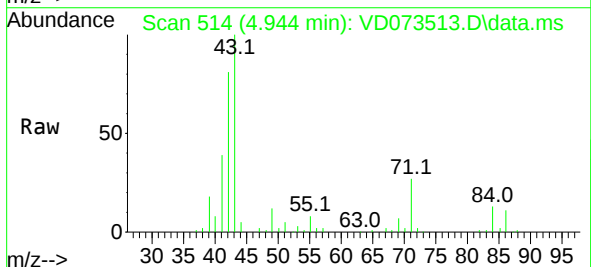
Instrument :
MSVOA_D
ClientSampleId :

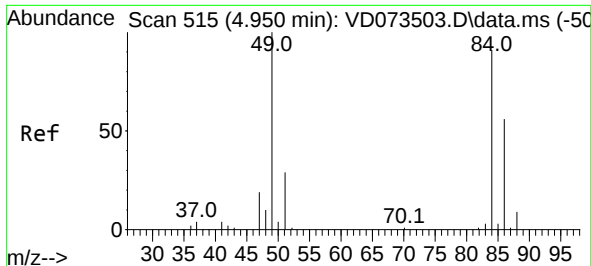
Tgt Ion: 43 Resp: 36749
Ion Ratio Lower Upper
43 100
58 9.4 22.1 33.1#



#18
Methyl Acetate
Concen: 82.597 ug/l
RT: 4.944 min Scan# 514
Delta R.T. 0.229 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion: 43 Resp: 166479
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#

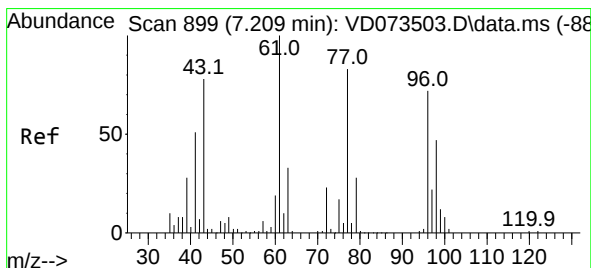
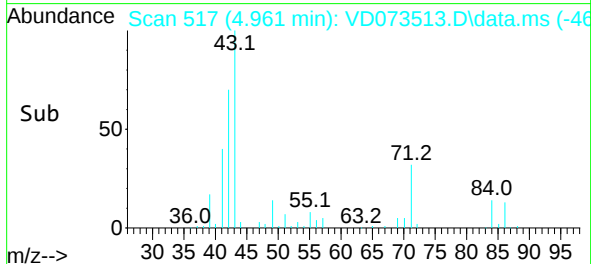
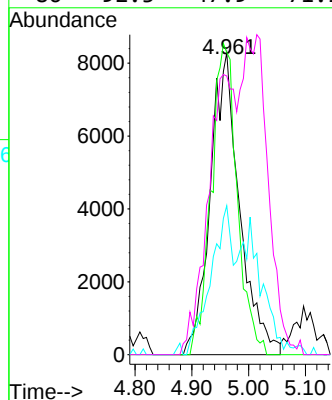
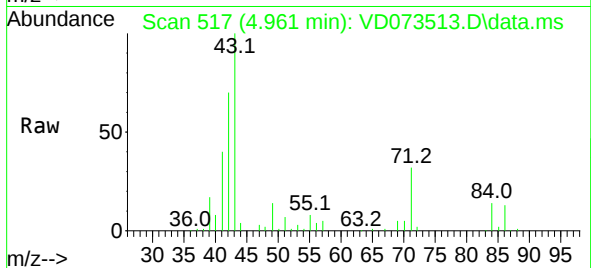




#20
Methylene Chloride
Concen: 3.704 ug/l
RT: 4.961 min Scan# 51
Delta R.T. 0.011 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

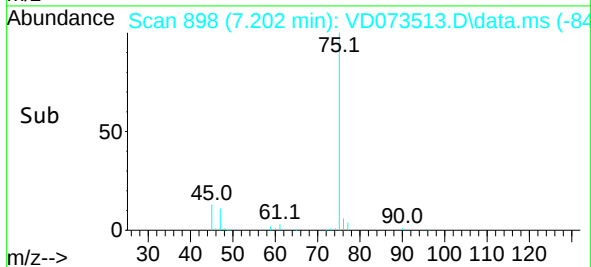
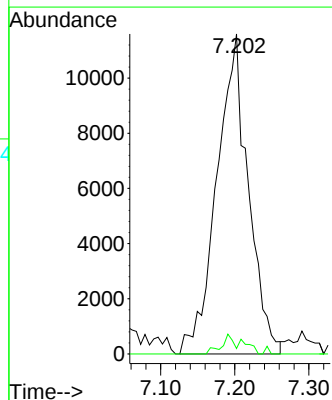
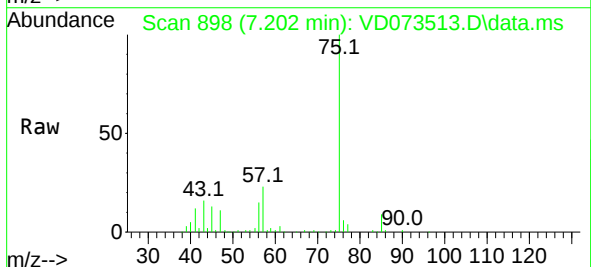
Instrument :
MSVOA_D
ClientSampleId :

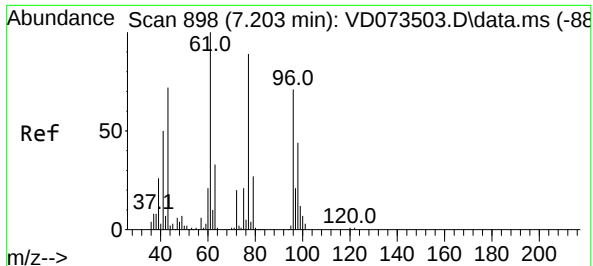
Tgt Ion: 84 Resp: 29817
Ion Ratio Lower Upper
84 100
49 100.1 112.8 169.2#
51 45.5 32.6 48.8
86 92.3 47.9 71.9#



#25
2-Butanone
Concen: 32.931 ug/l
RT: 7.202 min Scan# 898
Delta R.T. -0.007 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

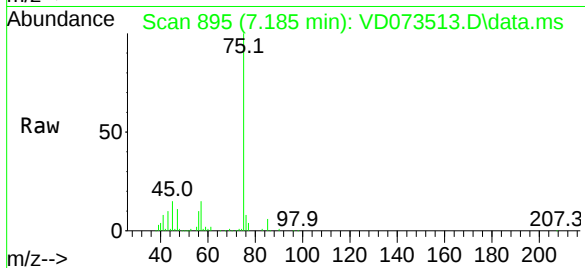
Tgt Ion: 43 Resp: 34263
Ion Ratio Lower Upper
43 100
72 1.7 18.6 27.8#



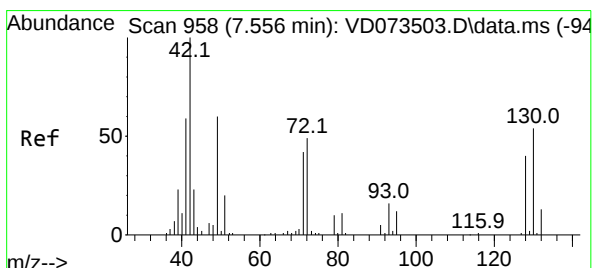
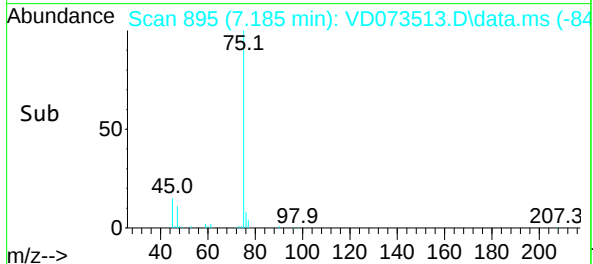
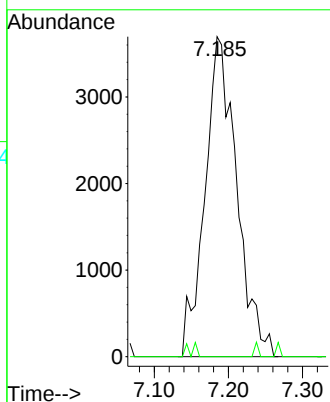


#26
2,2-Dichloropropane
Concen: 1.632 ug/l
RT: 7.185 min Scan# 898
Delta R.T. -0.018 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Instrument :
MSVOA_D
ClientSampleId :

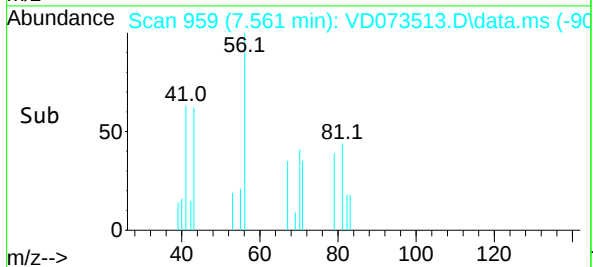
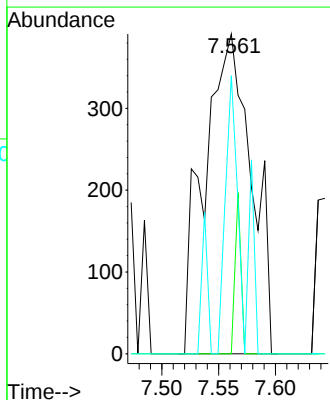
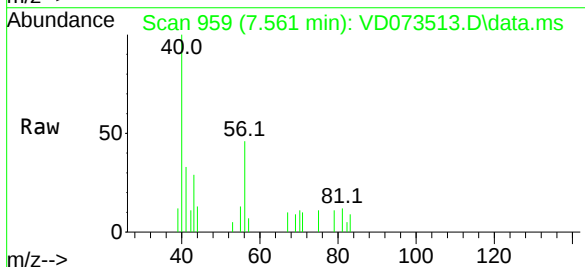


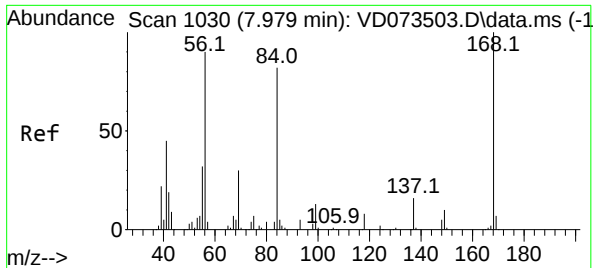
Tgt Ion: 77 Resp: 11004
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.4#



#29
Tetrahydrofuran
Concen: 1.699 ug/l
RT: 7.561 min Scan# 959
Delta R.T. 0.005 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion: 42 Resp: 1128
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 28.6 43.0#

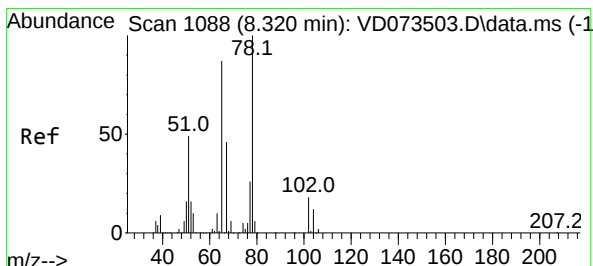
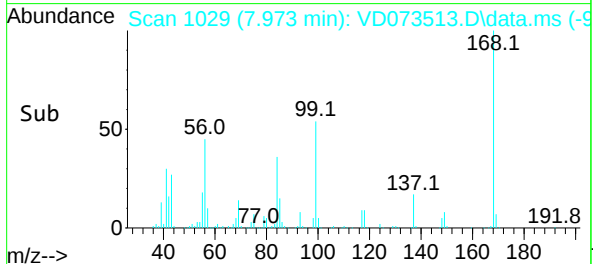
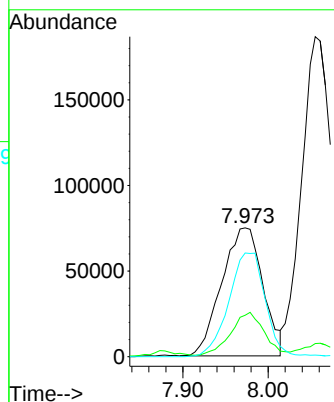
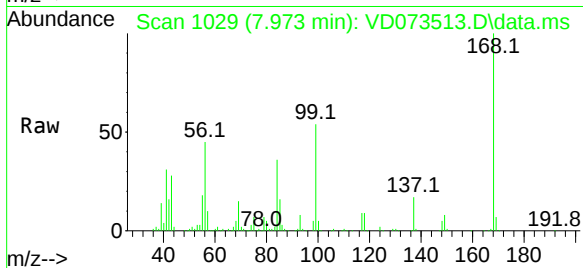




#31
Cyclohexane
Concen: 37.111 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

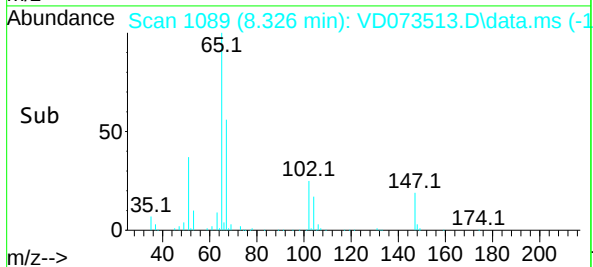
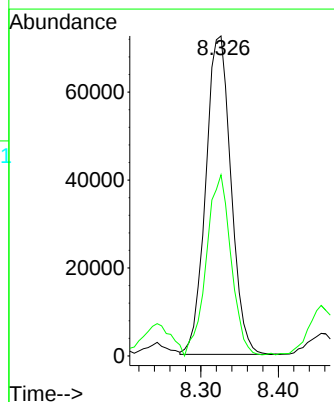
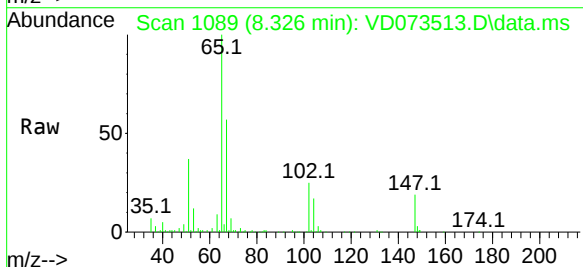
Instrument :
MSVOA_D
ClientSampleId :

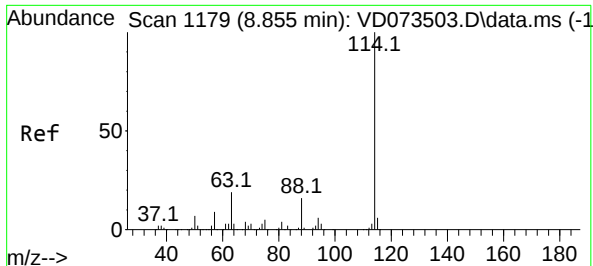
Tgt Ion: 56 Resp: 251061
Ion Ratio Lower Upper
56 100
69 29.8 25.4 38.2
84 81.0 63.0 94.4



#33
1,2-Dichloroethane-d4
Concen: 40.830 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.006 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion: 65 Resp: 163973
Ion Ratio Lower Upper
65 100
67 55.7 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073513.D

Acq: 09 Jun 2022 16:50

Instrument :

MSVOA_D

ClientSampleId :

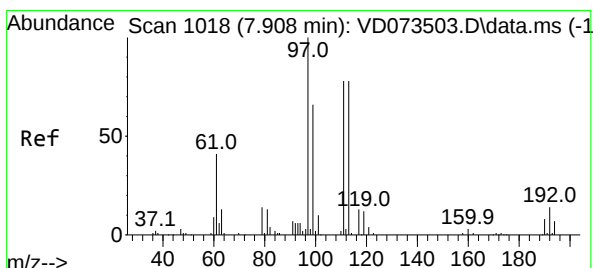
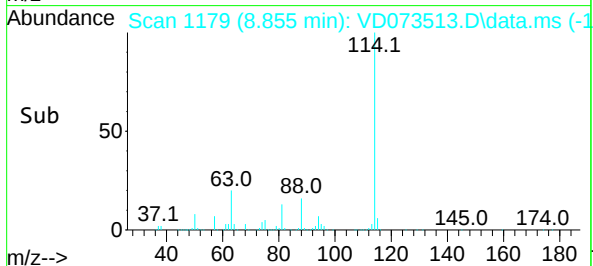
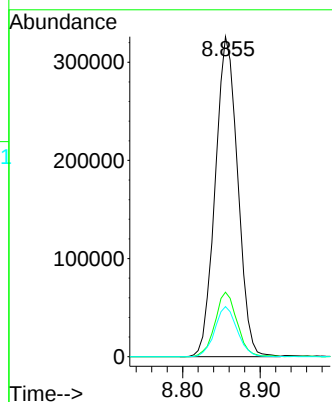
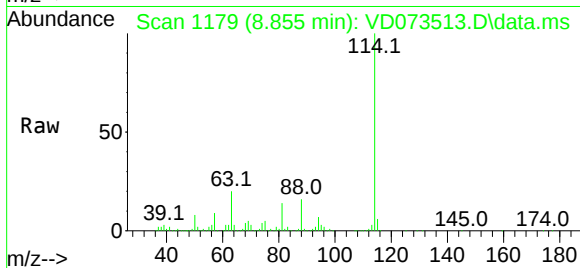
Tgt Ion:114 Resp: 656152

Ion Ratio Lower Upper

114 100

63 20.1 0.0 46.6

88 15.7 0.0 33.2



#35

Dibromofluoromethane

Concen: 46.406 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073513.D

Acq: 09 Jun 2022 16:50

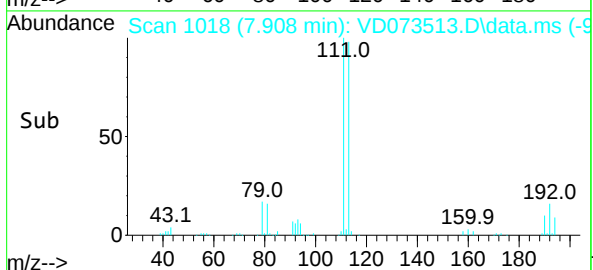
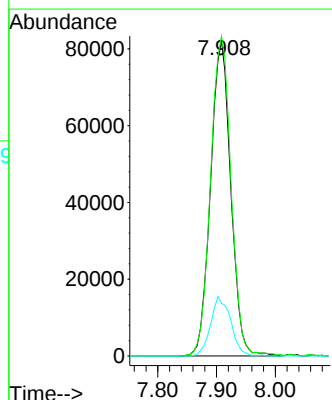
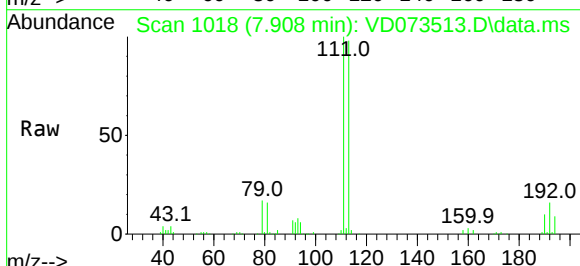
Tgt Ion:113 Resp: 195803

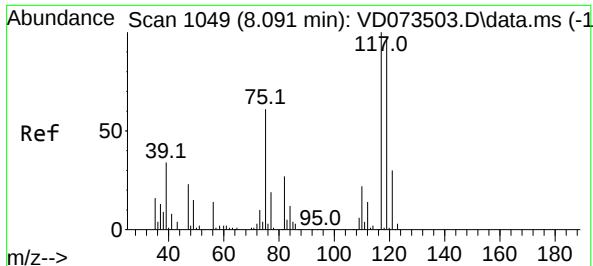
Ion Ratio Lower Upper

113 100

111 103.3 83.8 125.6

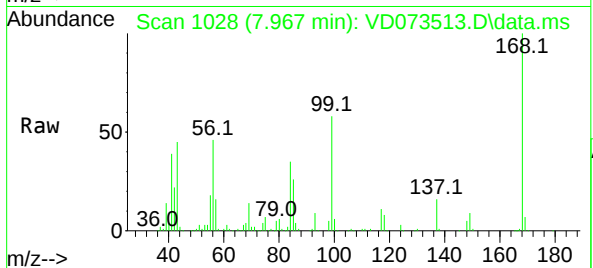
192 18.6 14.6 21.8



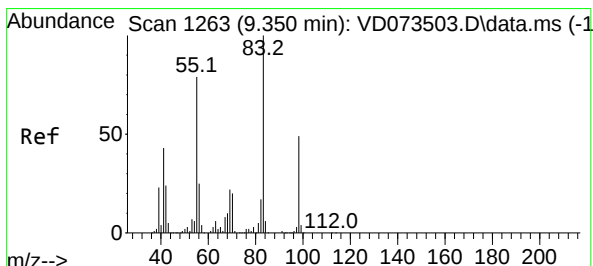
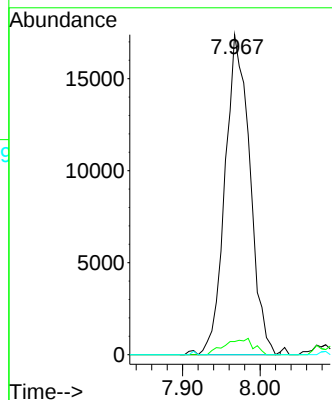
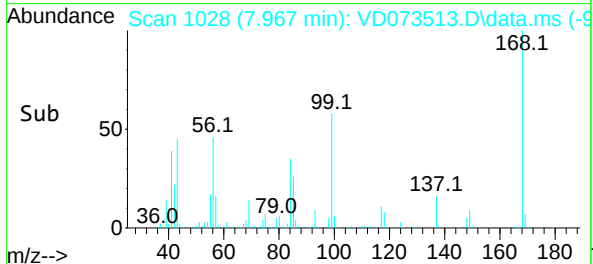


#38
Carbon Tetrachloride
Concen: 5.860 ug/l
RT: 7.967 min Scan# 1049
Delta R.T. -0.124 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

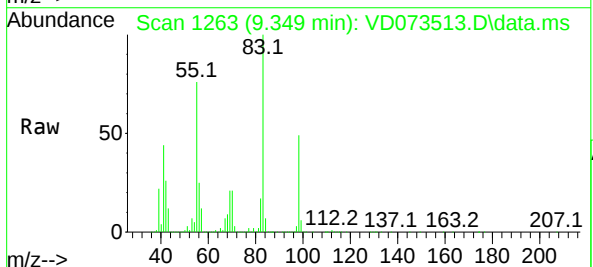
Instrument :
MSVOA_D
ClientSampleId :



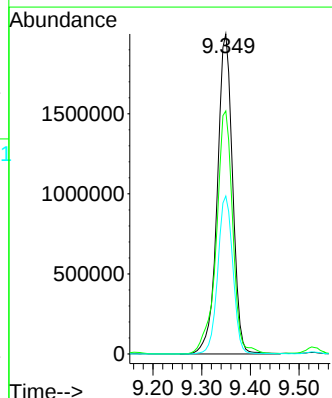
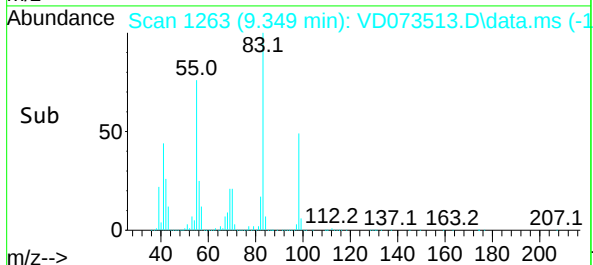
Tgt Ion:117 Resp: 38846
Ion Ratio Lower Upper
117 100
119 4.1 75.8 113.6#
121 0.0 24.5 36.7#

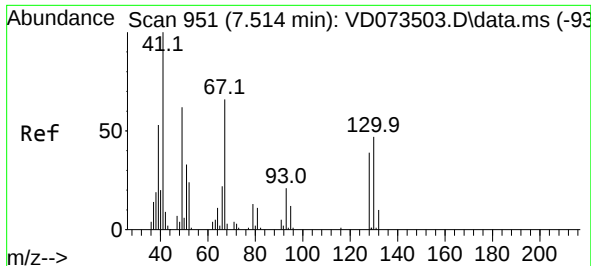


#39
Methylcyclohexane
Concen: 592.721 ug/l
RT: 9.349 min Scan# 1263
Delta R.T. -0.001 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50



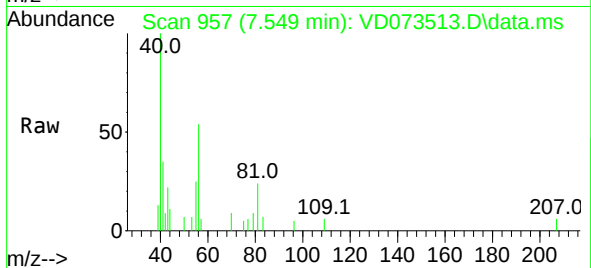
Tgt Ion: 83 Resp: 4377149
Ion Ratio Lower Upper
83 100
55 75.9 63.2 94.8
98 49.4 38.2 57.4



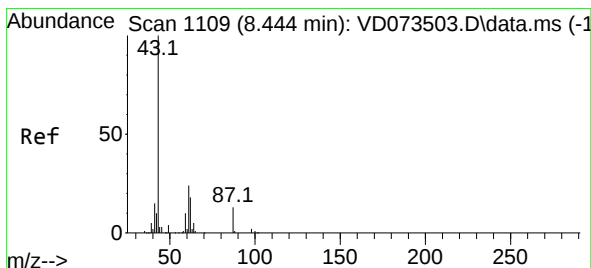
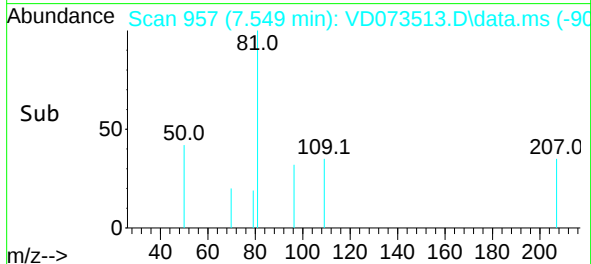
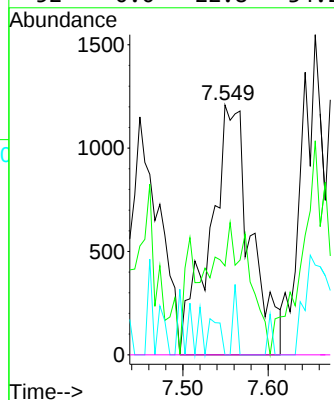


#41
Methacrylonitrile
Concen: 2.893 ug/l
RT: 7.549 min Scan# 91
Delta R.T. 0.035 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Instrument :
MSVOA_D
ClientSampleId :

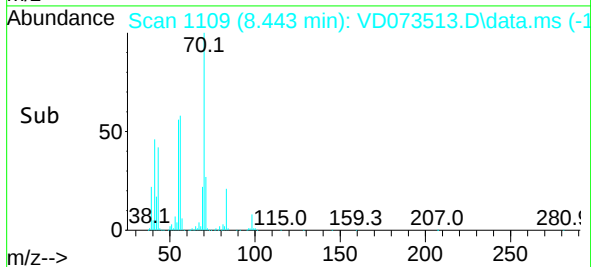
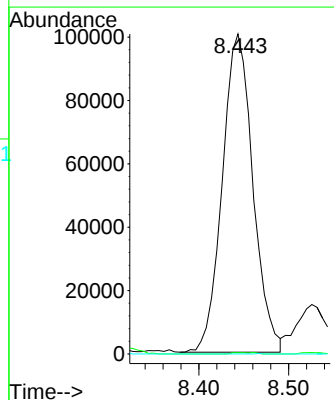
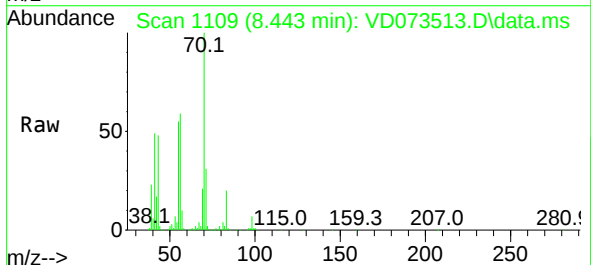


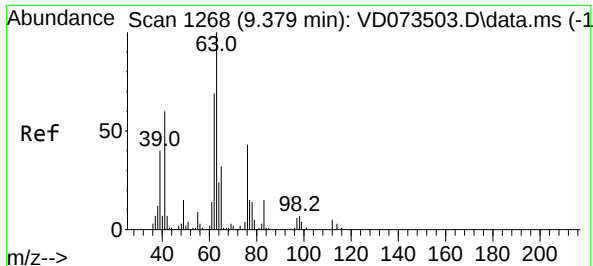
Tgt Ion:	41	Resp:	4015
Ion	Ratio	Lower	Upper
41	100		
39	0.0	44.6	67.0#
67	4.3	48.2	72.4#
52	0.0	22.8	34.2#



#43
Isopropyl Acetate
Concen: 48.361 ug/l
RT: 8.443 min Scan# 1109
Delta R.T. -0.001 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion:	43	Resp:	238179
Ion	Ratio	Lower	Upper
43	100		
61	0.3	22.4	33.6#
87	0.0	8.7	13.1#





#45

1,2-Dichloropropane

Concen: 8.838 ug/l

RT: 9.343 min Scan# 11

Delta R.T. -0.036 min

Lab File: VD073513.D

Acq: 09 Jun 2022 16:50

Instrument :

MSVOA_D

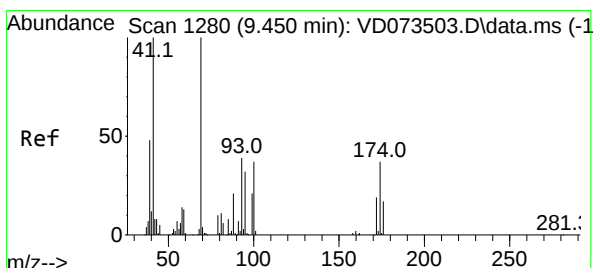
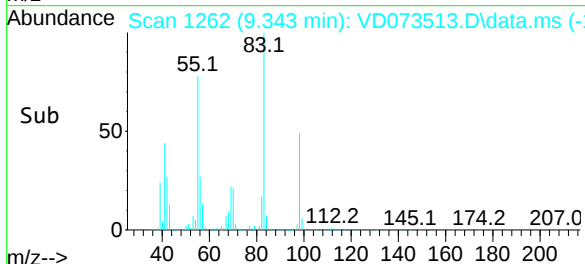
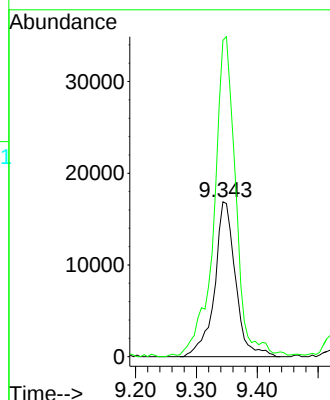
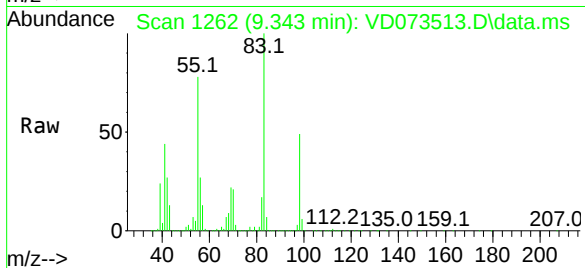
ClientSampleId :

Tgt Ion: 63 Resp: 40357

Ion Ratio Lower Upper

63 100

65 203.0 26.2 39.4#



#48

Methyl methacrylate

Concen: 57.612 ug/l

RT: 9.402 min Scan# 1272

Delta R.T. -0.048 min

Lab File: VD073513.D

Acq: 09 Jun 2022 16:50

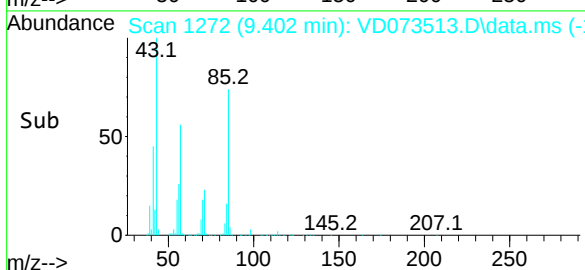
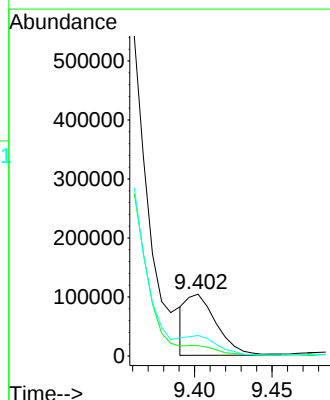
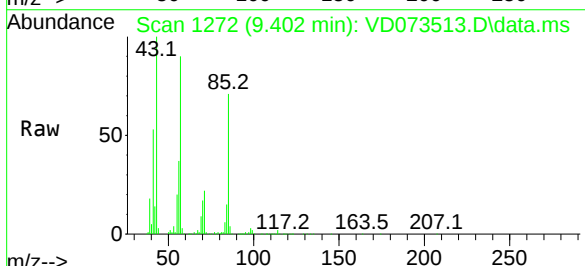
Tgt Ion: 41 Resp: 140550

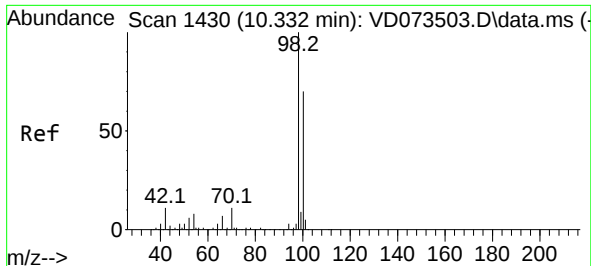
Ion Ratio Lower Upper

41 100

69 0.0 56.7 85.1#

39 0.0 42.7 64.1#

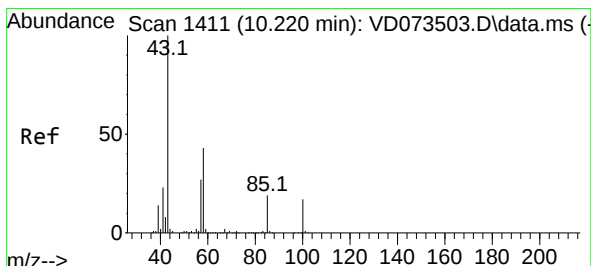
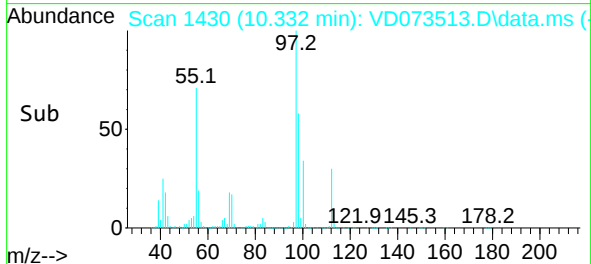
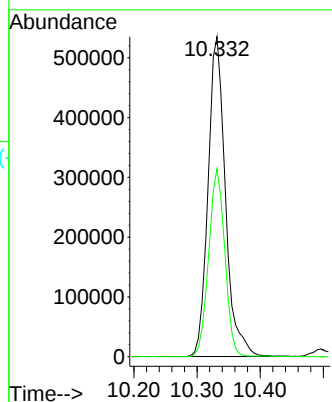
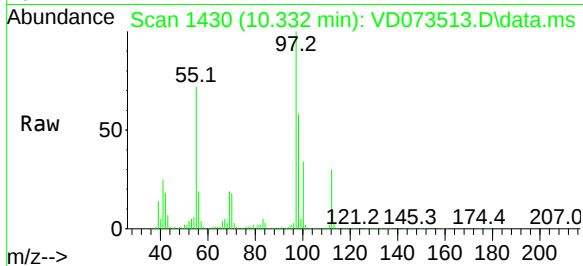




#50
Toluene-d8
Concen: 64.197 ug/l
RT: 10.332 min Scan# 1429
Delta R.T. -0.000 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

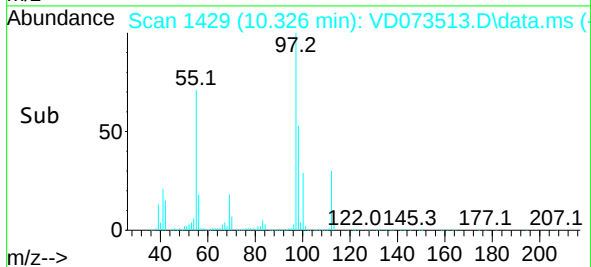
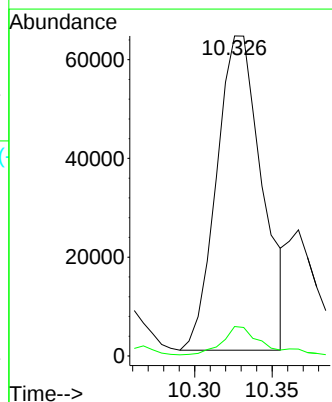
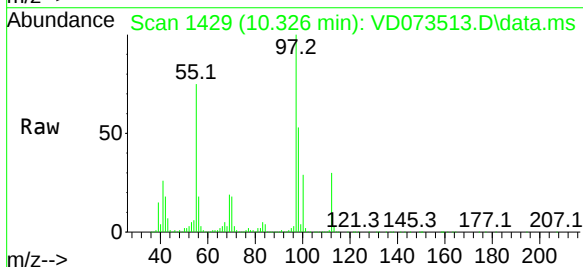
Instrument :
MSVOA_D
ClientSampleId :

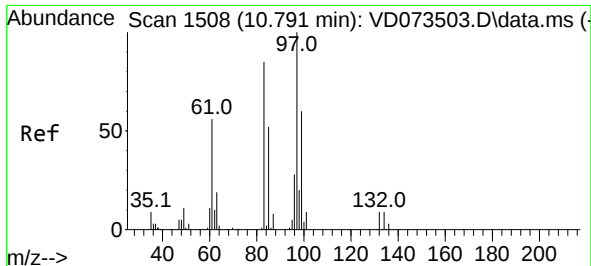
Tgt Ion: 98 Resp: 1024124
Ion Ratio Lower Upper
98 100
100 54.5 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 52.261 ug/l
RT: 10.326 min Scan# 1429
Delta R.T. 0.106 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

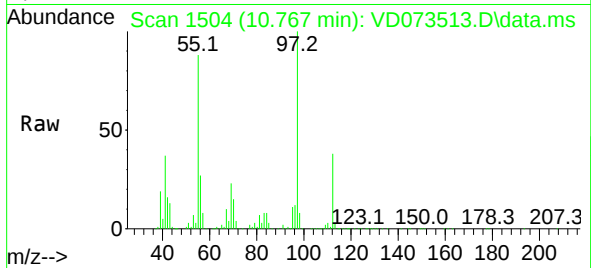
Tgt Ion: 43 Resp: 130237
Ion Ratio Lower Upper
43 100
58 9.0 28.6 43.0#



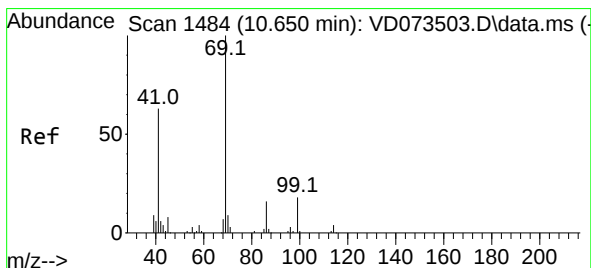
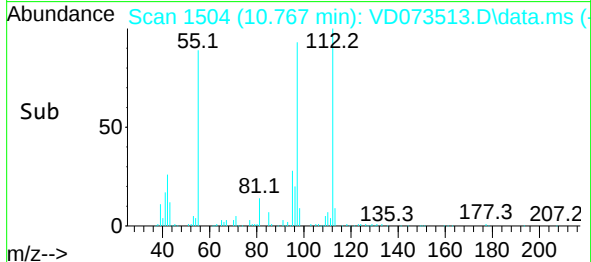
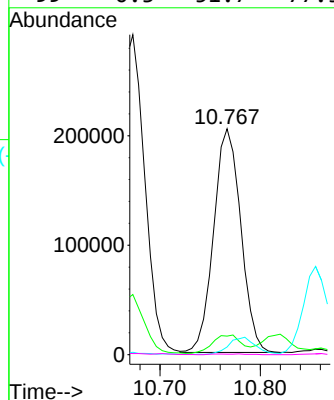


#55
1,1,2-Trichloroethane
Concen: 104.973 ug/l
RT: 10.767 min Scan# 1
Delta R.T. -0.024 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Instrument :
MSVOA_D
ClientSampleId :

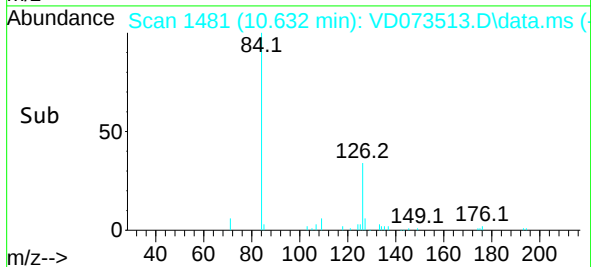
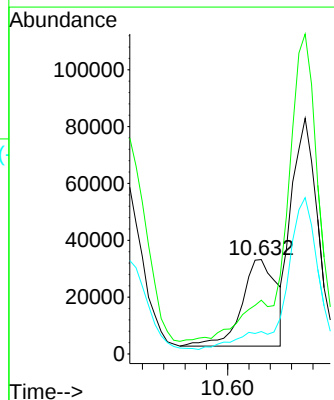
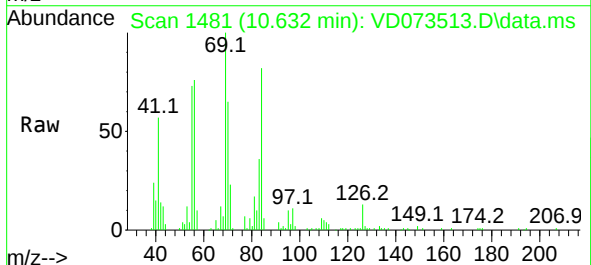


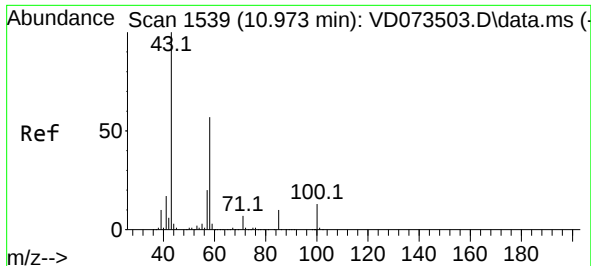
Tgt Ion: 97 Resp: 385129
Ion Ratio Lower Upper
97 100
83 7.5 69.0 103.4#
85 3.4 42.6 63.8#
99 0.3 51.7 77.5#



#56
Ethyl methacrylate
Concen: 16.381 ug/l
RT: 10.632 min Scan# 1481
Delta R.T. -0.018 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion: 69 Resp: 68856
Ion Ratio Lower Upper
69 100
41 0.0 63.0 94.6#
39 0.0 33.8 50.8#

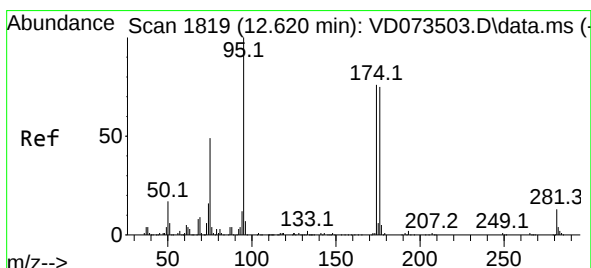
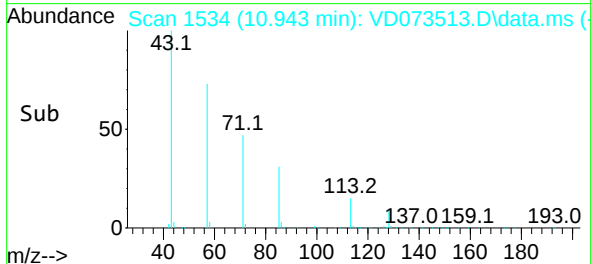
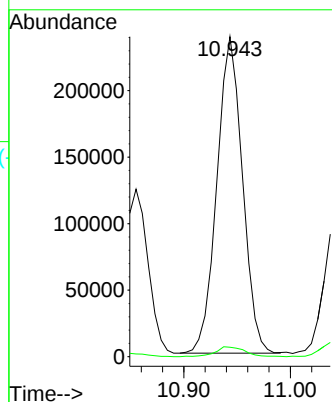
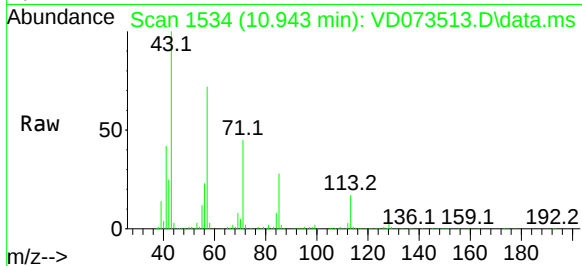




#59
2-Hexanone
Concen: 232.769 ug/l
RT: 10.943 min Scan# 1539
Delta R.T. -0.030 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

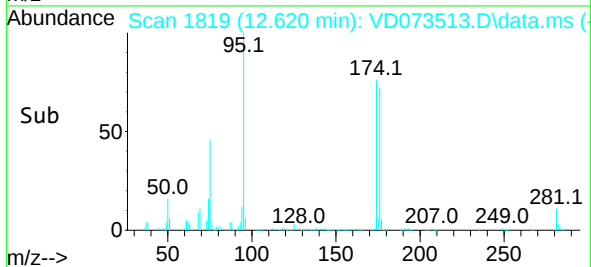
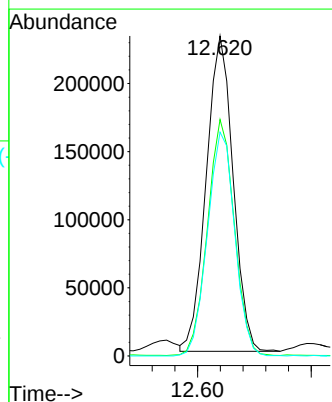
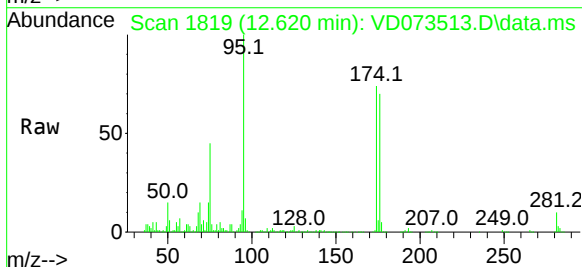
Instrument :
MSVOA_D
ClientSampleId :

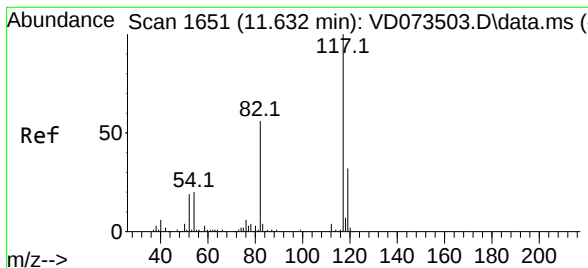
Tgt Ion: 43 Resp: 397262
Ion Ratio Lower Upper
43 100
58 3.6 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 65.781 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

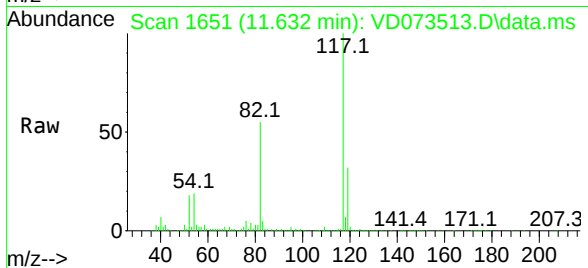
Tgt Ion: 95 Resp: 380952
Ion Ratio Lower Upper
95 100
174 74.7 0.0 152.8
176 72.0 0.0 145.4



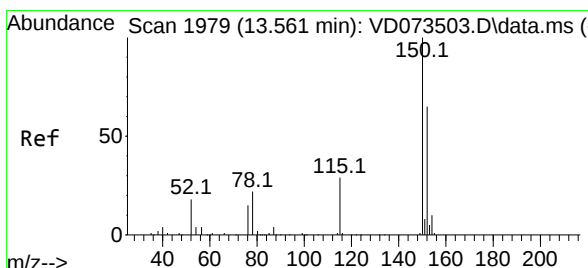
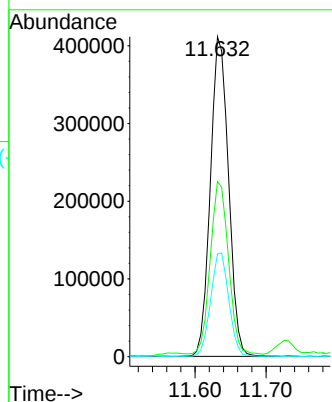
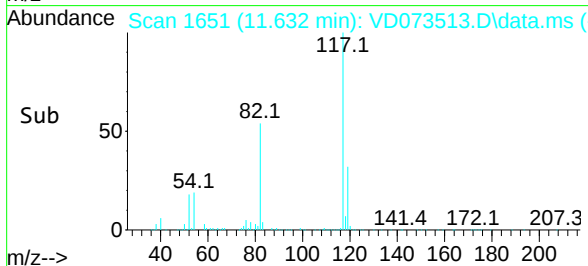


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.000 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

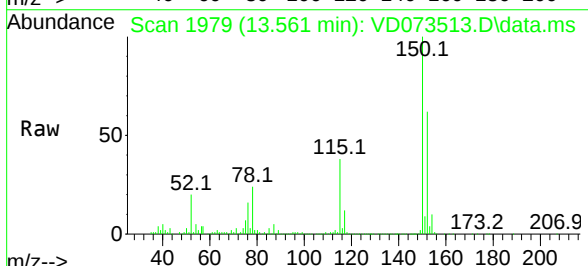
Instrument :
MSVOA_D
ClientSampleId :



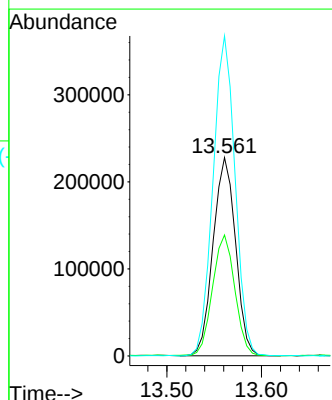
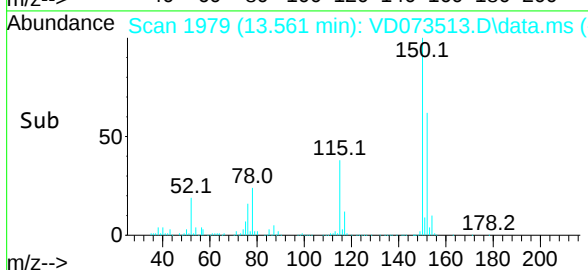
Tgt Ion:117 Resp: 728401
Ion Ratio Lower Upper
117 100
82 53.7 45.3 67.9
119 32.1 26.6 40.0

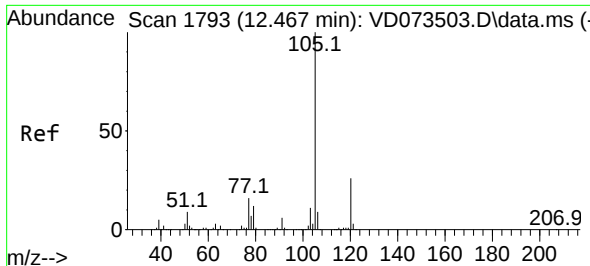


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50



Tgt Ion:152 Resp: 374969
Ion Ratio Lower Upper
152 100
115 60.5 31.3 93.8
150 159.1 0.0 348.6

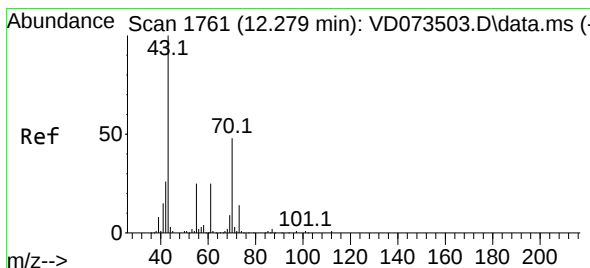
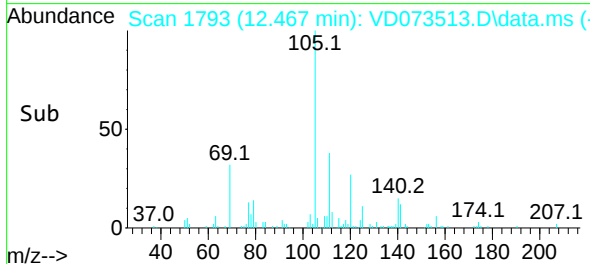
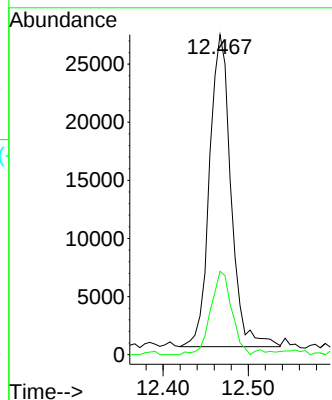
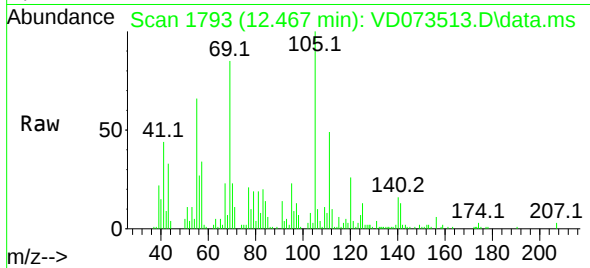




#73
Isopropylbenzene
Concen: 1.809 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

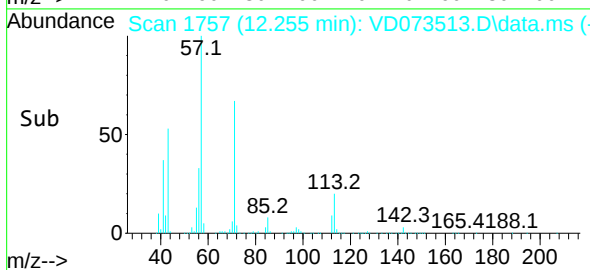
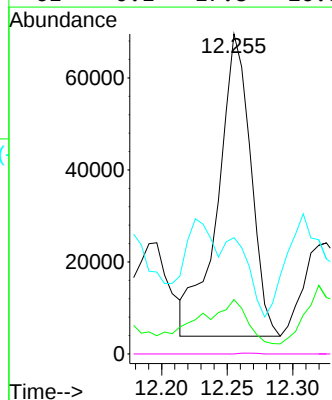
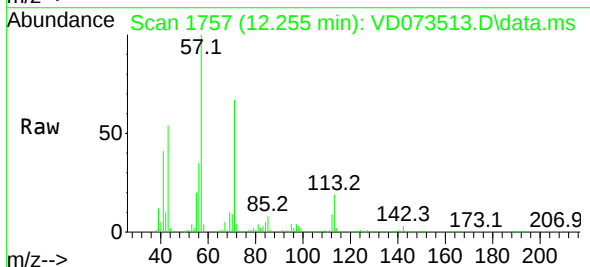
Instrument :
MSVOA_D
ClientSampleId :

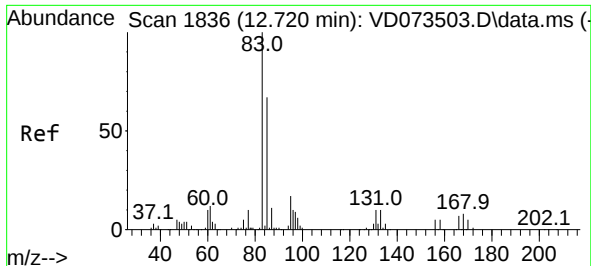
Tgt Ion:105 Resp: 47007
Ion Ratio Lower Upper
105 100
120 26.1 13.0 38.9



#74
N-ethyl acetate
Concen: 19.886 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion: 43 Resp: 114978
Ion Ratio Lower Upper
43 100
70 21.0 31.3 46.9#
55 0.0 20.0 30.0#
61 0.1 17.8 26.8#

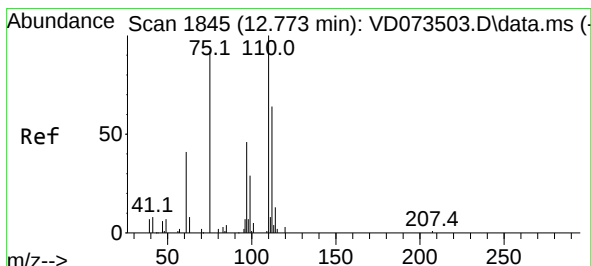
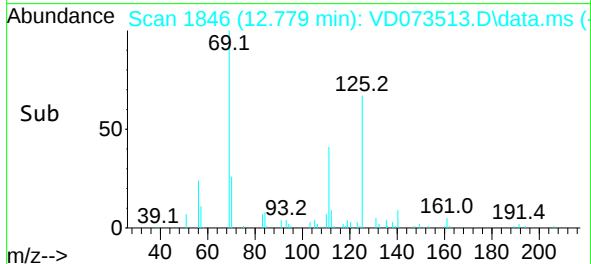
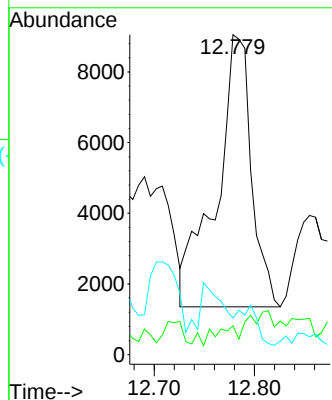
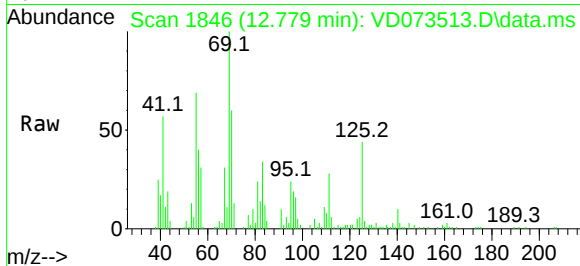




#75
1,1,2,2-Tetrachloroethane
Concen: 3.793 ug/l
RT: 12.779 min Scan# 1819
Delta R.T. 0.059 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

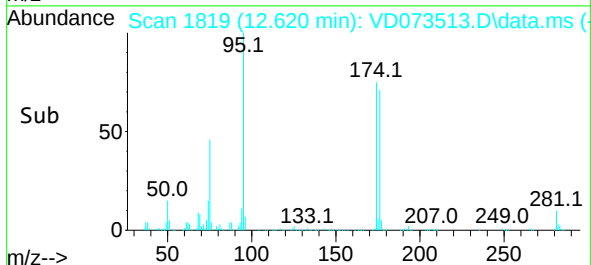
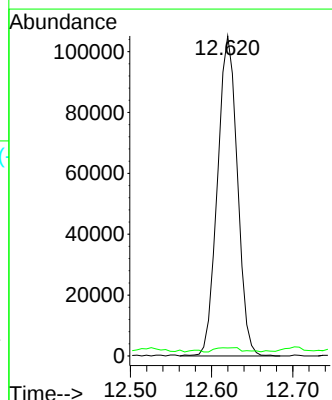
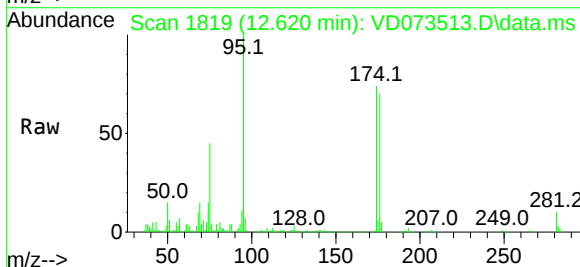
Instrument :
MSVOA_D
ClientSampleId :

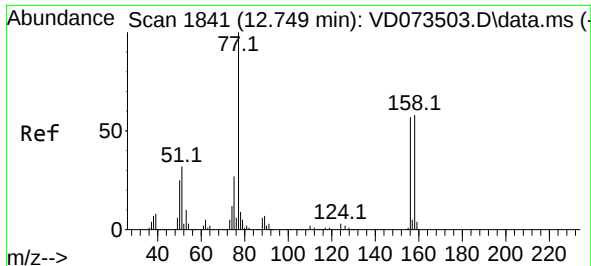
Tgt Ion: 83 Resp: 18713
Ion Ratio Lower Upper
83 100
131 0.0 5.0 14.9#
85 0.0 32.6 98.0#



#76
1,2,3-Trichloropropane
Concen: 49.278 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion: 75 Resp: 179504
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#

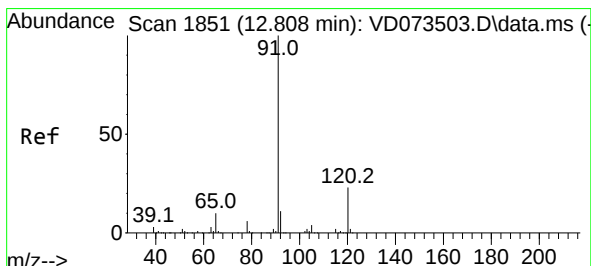
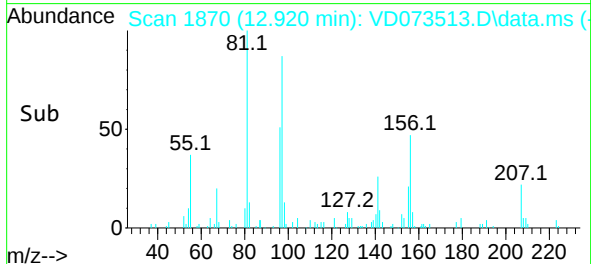
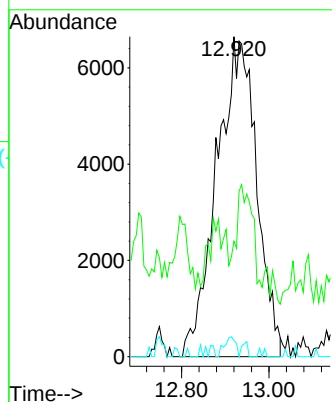
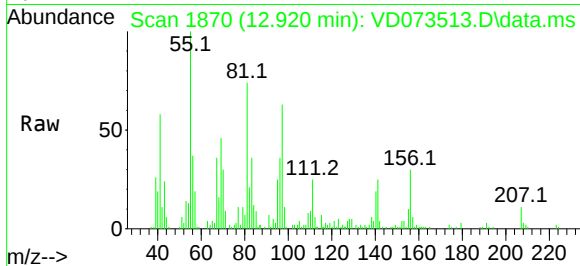




#77
Bromobenzene
Concen: 6.624 ug/l
RT: 12.920 min Scan# 1870
Delta R.T. 0.171 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

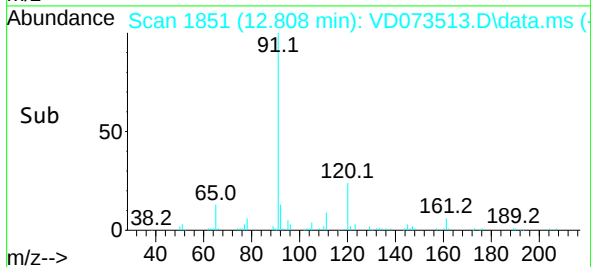
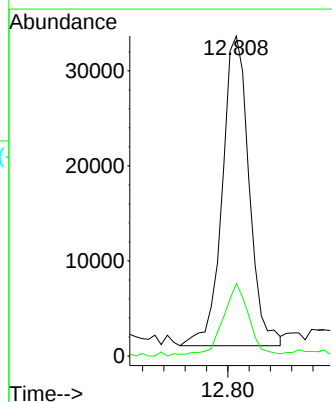
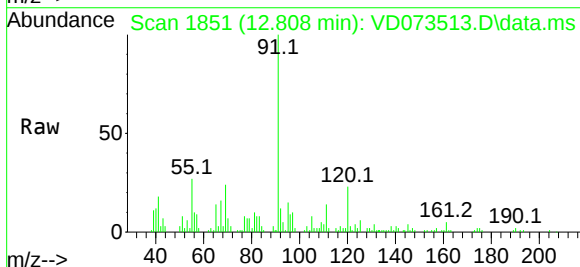
Instrument :
MSVOA_D
ClientSampleId :

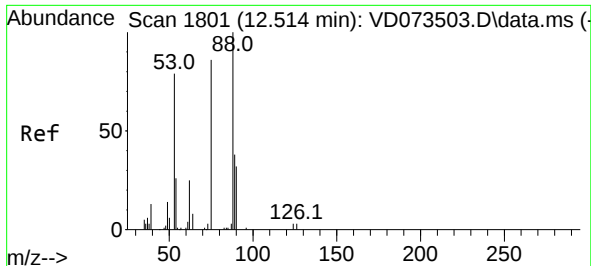
Tgt Ion:156 Resp: 42046
Ion Ratio Lower Upper
156 100
77 0.0 102.8 308.3#
158 1.8 48.7 146.1#



#78
n-propylbenzene
Concen: 1.761 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion: 91 Resp: 56980
Ion Ratio Lower Upper
91 100
120 20.9 10.9 32.9

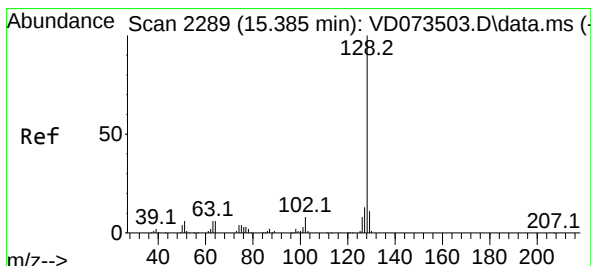
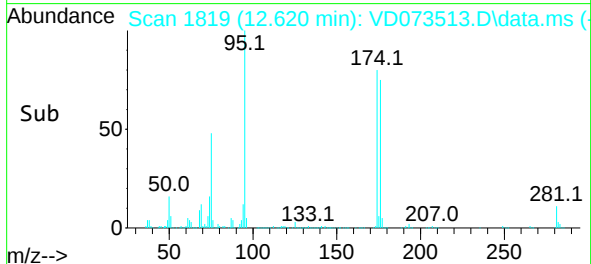
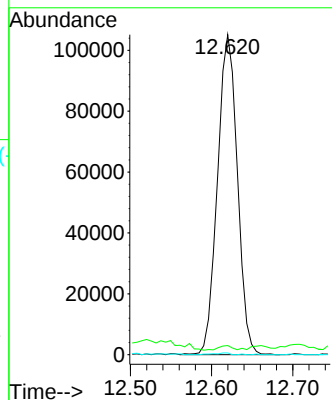
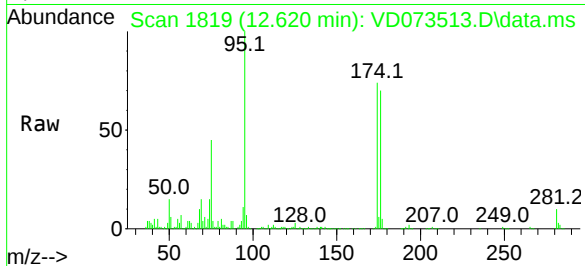




#81
trans-1,4-Dichloro-2-butene
Concen: 115.664 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 179504
Ion Ratio Lower Upper
75 100
53 1.0 86.5 129.7#
89 0.4 33.9 50.9#



#95
Naphthalene
Concen: 4.340 ug/l
RT: 15.378 min Scan# 2288
Delta R.T. -0.007 min
Lab File: VD073513.D
Acq: 09 Jun 2022 16:50

Tgt Ion:128 Resp: 2012
Ion Ratio Lower Upper
128 100
127 3.1 10.3 15.5#
129 0.0 8.4 12.6#

