

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062422\
 Data File : VD073691.D
 Acq On : 24 Jun 2022 16:56
 Operator : VA/SY
 Sample : N3472-04
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20071

Quant Time: Jun 25 07:22:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D062322S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 24 07:36:47 2022
 Response via : Initial Calibration

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

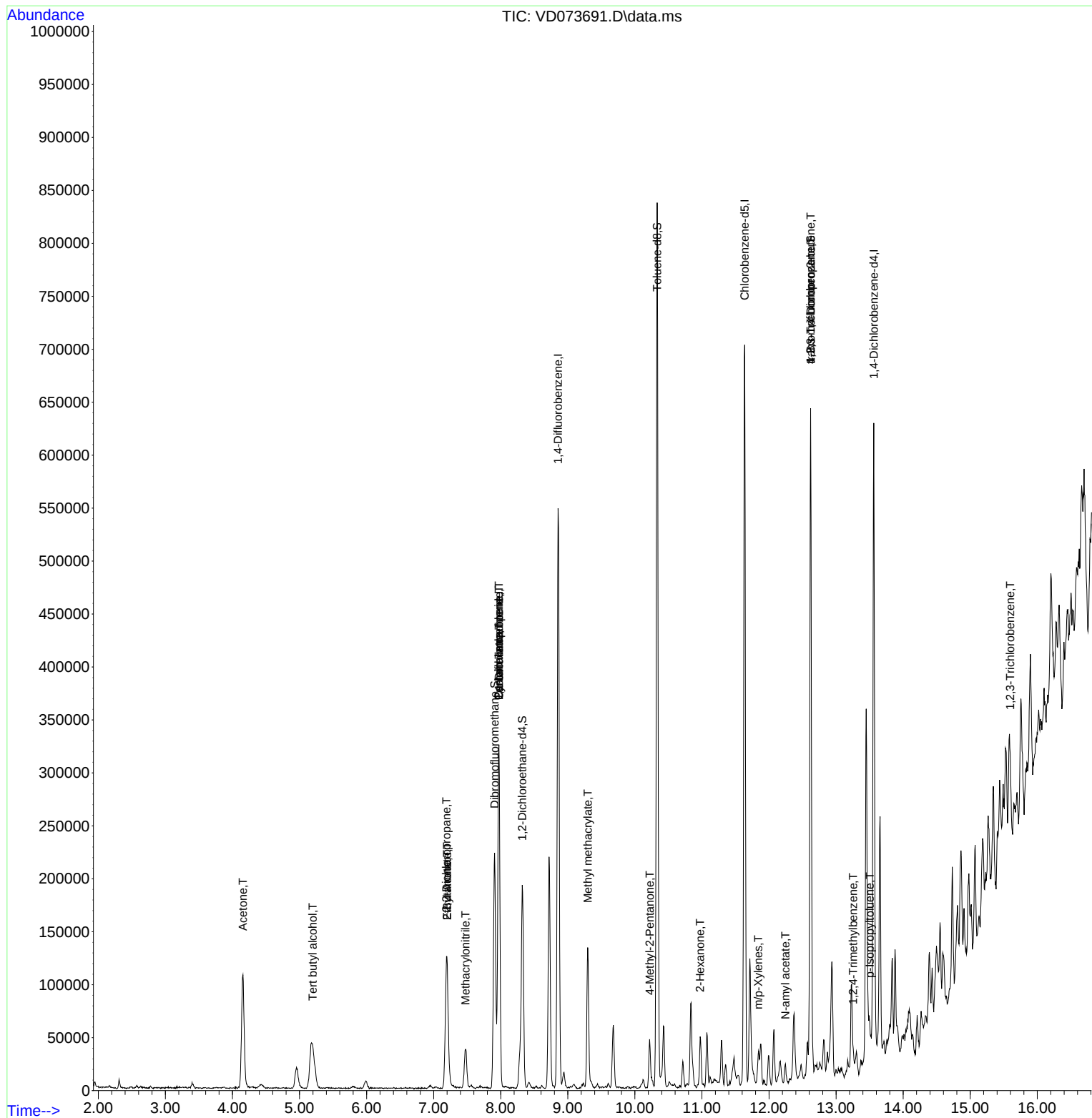
Internal Standards						
1) Pentafluorobenzene	7.973	168	242995	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	495742	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	416535	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	159272	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	152152	50.980	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.960%			
35) Dibromofluoromethane	7.909	113	157340	40.742	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 81.480%			
50) Toluene-d8	10.332	98	552508	39.846	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 79.700%			
62) 4-Bromofluorobenzene	12.620	95	181664	34.931	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 69.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.991	85	437	Below Cal		86
3) Chloromethane	2.209	50	699	Below Cal	#	86
5) Bromomethane	2.756	94	745	Below Cal	#	3
11) Tert butyl alcohol	5.197	59	67890	174.301	ug/l #	100
16) Acetone	4.156	43	185301	390.087	ug/l	97
18) Methyl Acetate	4.709	43	65	Below Cal	#	50
20) Methylene Chloride	4.956	84	15341	Below Cal		89
25) 2-Butanone	7.203	43	58105	77.255	ug/l	95
26) 2,2-Dichloropropane	7.191	77	8068	1.556	ug/l #	56
31) Cyclohexane	7.973	56	4718	1.054	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	19749	3.643	ug/l #	50
37) Ethyl Acetate	7.203	43	58105	27.309	ug/l #	81
38) Carbon Tetrachloride	7.973	117	25739	4.078	ug/l #	14
41) Methacrylonitrile	7.473	41	19836	15.443	ug/l #	42
48) Methyl methacrylate	9.297	41	18784	8.865	ug/l #	42
51) 4-Methyl-2-Pentanone	10.220	43	30829	14.369	ug/l	99
59) 2-Hexanone	10.973	43	25175	17.381	ug/l	86
68) m/p-Xylenes	11.838	106	7232	1.052	ug/l	94
74) N-amyl acetate	12.244	43	10893	4.093	ug/l #	52
76) 1,2,3-Trichloropropane	12.620	75	93597	60.387	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	93597	123.284	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.255	105	12620	1.152	ug/l	97
86) p-Isopropyltoluene	13.502	119	15287	1.274	ug/l	94
96) 1,2,3-Trichlorobenzene	15.596	180	8363	2.861	ug/l #	23

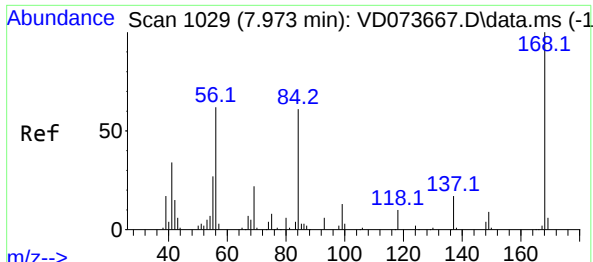
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jun 24 07:36:47 2022
Response via : Initial Calibration





Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.973 min Scan# 10

Delta R.T. 0.000 min

Lab File: VD073691.D

Acq: 24 Jun 2022 16:56

Instrument :

MSVOA_D

ClientSampleId :

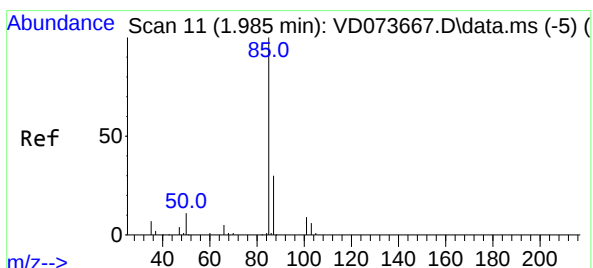
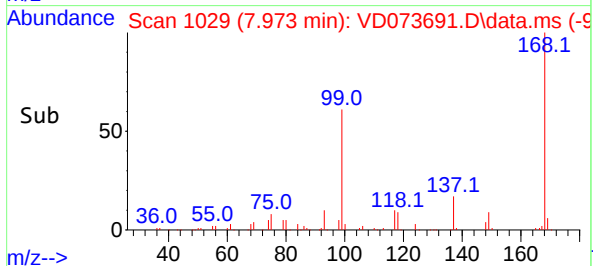
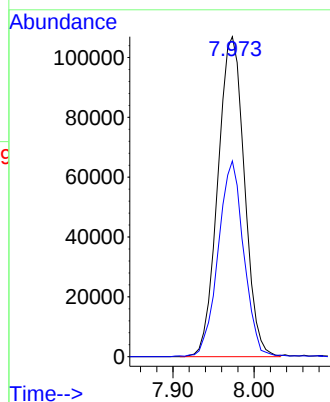
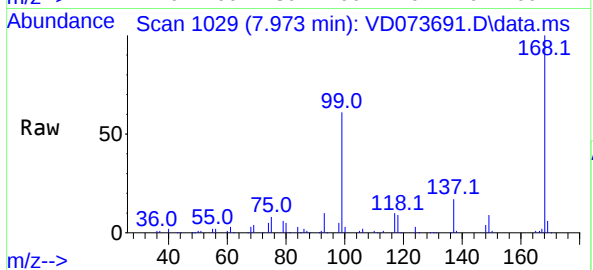
20071

Tgt Ion:168 Resp: 242995

Ion Ratio Lower Upper

168 100

99 60.9 46.4 69.6



Dichlorodifluoromethane

Concen: Below Cal

RT: 1.991 min Scan# 12

Delta R.T. 0.006 min

Lab File: VD073691.D

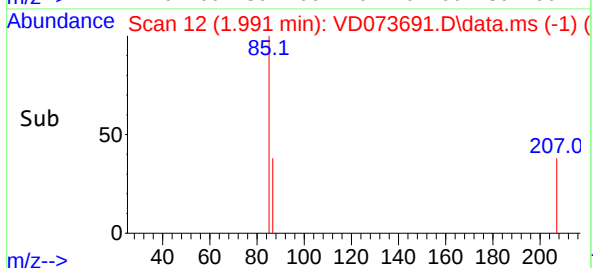
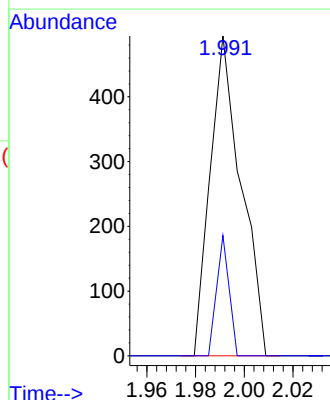
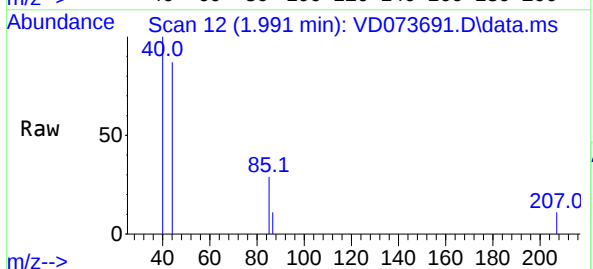
Acq: 24 Jun 2022 16:56

Tgt Ion: 85 Resp: 437

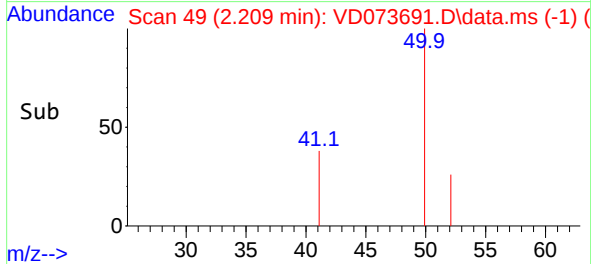
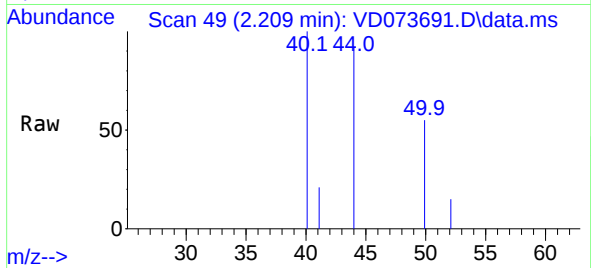
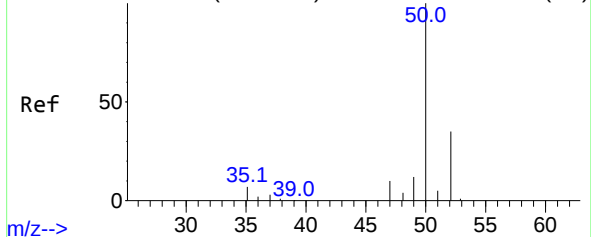
Ion Ratio Lower Upper

85 100

87 37.7 15.2 45.5



Abundance Scan 49 (2.209 min): VD073667.D\data.ms (-43)



#3

Chloromethane

Concen: Below Cal

RT: 2.209 min Scan# 49

Delta R.T. -0.000 min

Lab File: VD073691.D

Acq: 24 Jun 2022 16:56

Instrument :

MSVOA_D

ClientSampleId :

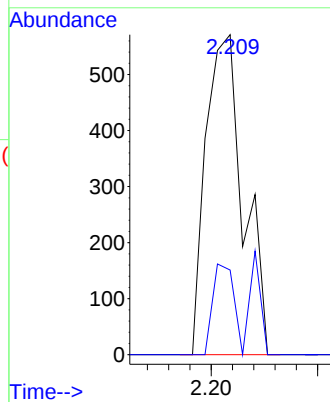
20071

Tgt Ion: 50 Resp: 699

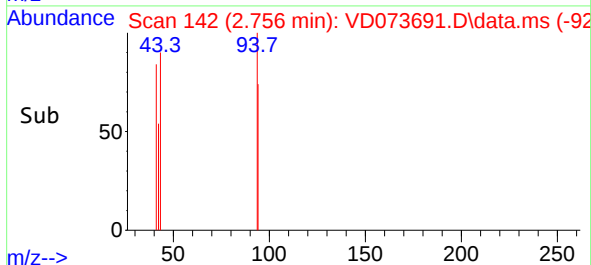
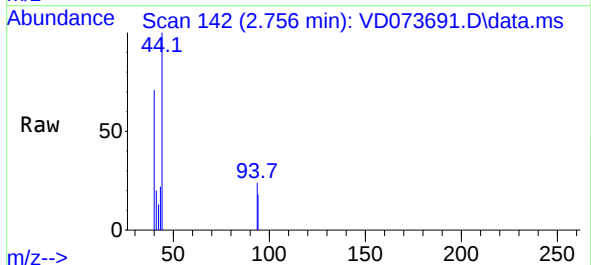
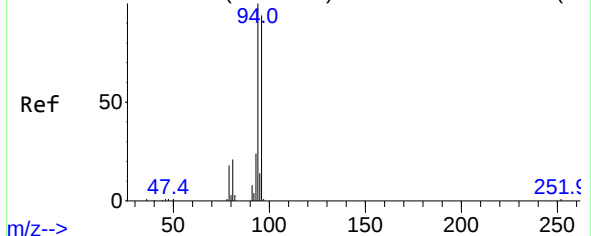
Ion Ratio Lower Upper

50 100

52 26.4 27.8 41.6#



Abundance Scan 143 (2.762 min): VD073667.D\data.ms (-13)



#5

Bromomethane

Concen: Below Cal

RT: 2.756 min Scan# 142

Delta R.T. -0.006 min

Lab File: VD073691.D

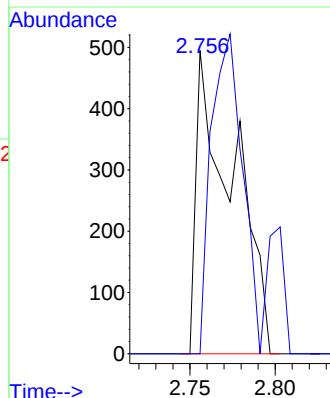
Acq: 24 Jun 2022 16:56

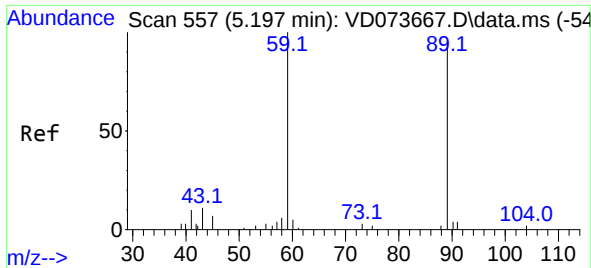
Tgt Ion: 94 Resp: 745

Ion Ratio Lower Upper

94 100

96 0.0 75.1 112.7#

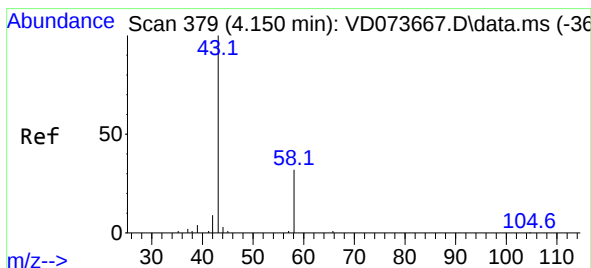
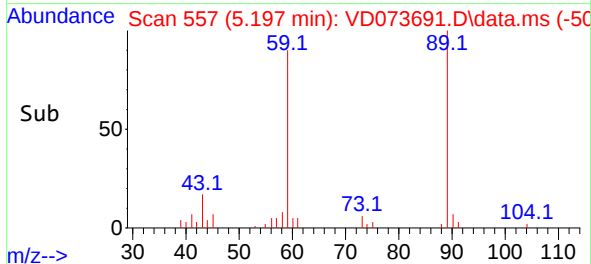
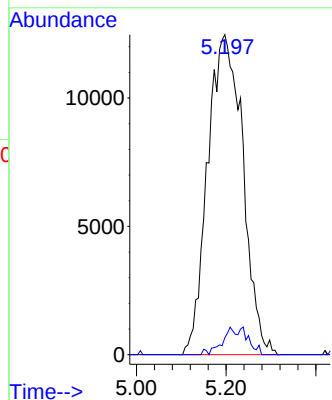
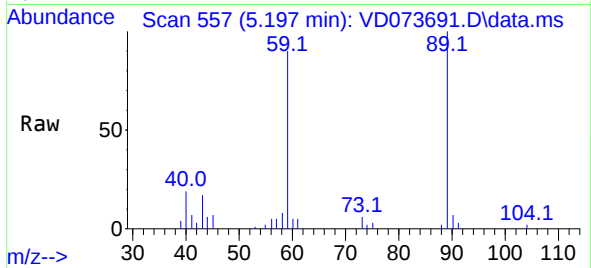




#11
Tert butyl alcohol
Concen: 174.301 ug/l
RT: 5.197 min Scan# 51
Delta R.T. -0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

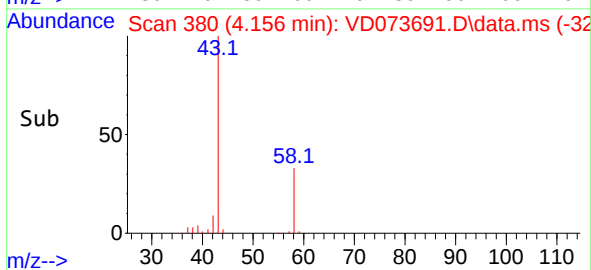
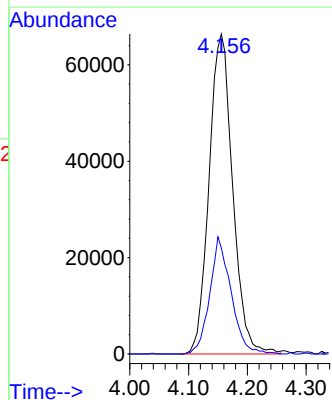
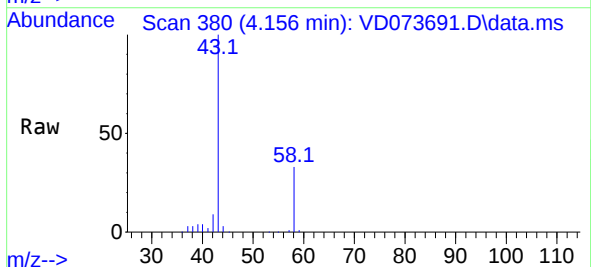
Instrument :
MSVOA_D
ClientSampleId :
20071

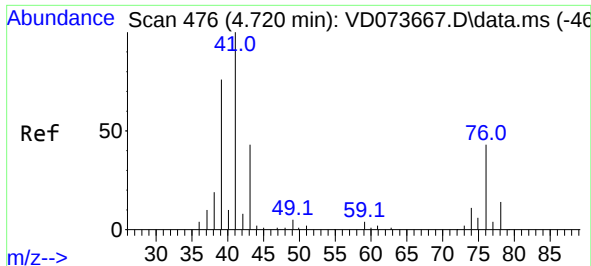
Tgt Ion: 59 Resp: 67890
Ion Ratio Lower Upper
59 100
57 3.5 0.0 0.0#



#16
Acetone
Concen: 390.087 ug/l
RT: 4.156 min Scan# 380
Delta R.T. 0.006 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 43 Resp: 185301
Ion Ratio Lower Upper
43 100
58 33.1 25.2 37.8





#18

Methyl Acetate

Concen: Below Cal

RT: 4.709 min Scan# 41

Delta R.T. -0.011 min

Lab File: VD073691.D

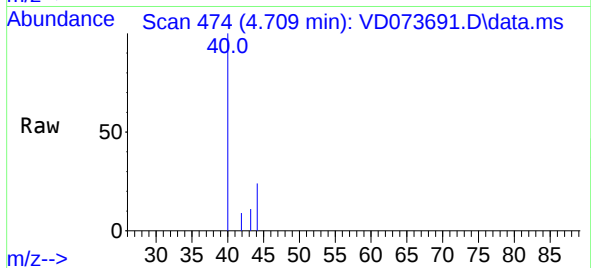
Acq: 24 Jun 2022 16:56

Instrument :

MSVOA_D

ClientSampleId :

20071

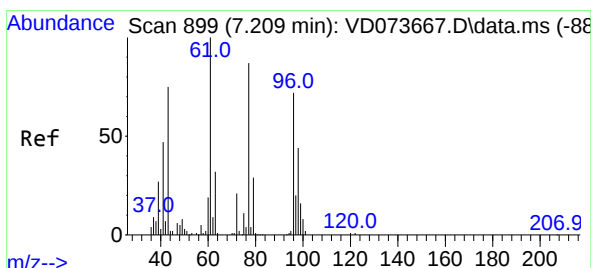
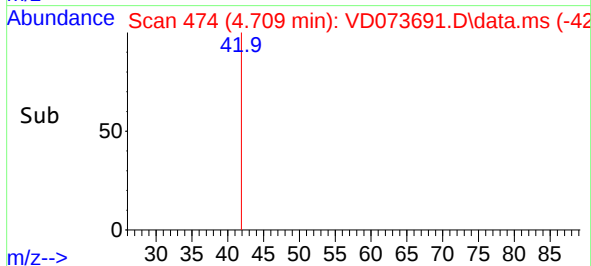
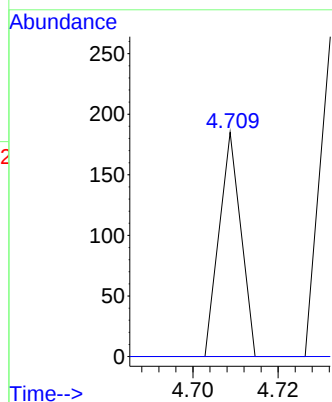


Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.4#



#25

2-Butanone

Concen: 77.255 ug/l

RT: 7.203 min Scan# 898

Delta R.T. -0.006 min

Lab File: VD073691.D

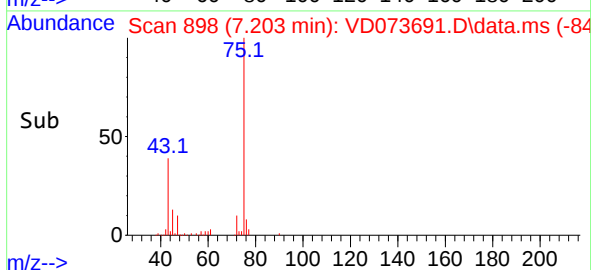
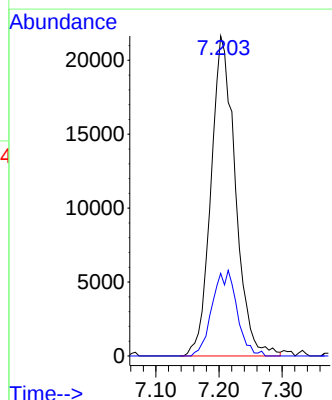
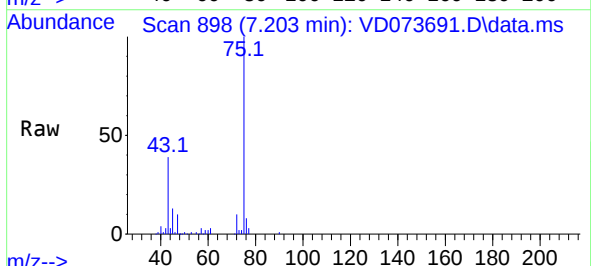
Acq: 24 Jun 2022 16:56

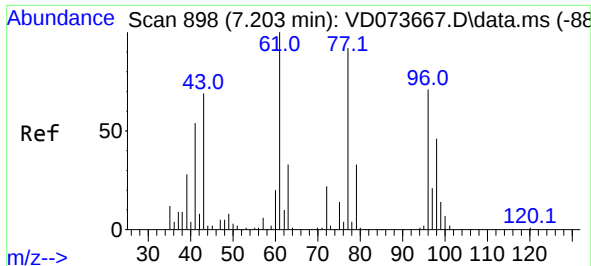
Tgt Ion: 43 Resp: 58105

Ion Ratio Lower Upper

43 100

72 25.8 22.6 33.8





#26

2,2-Dichloropropane

Concen: 1.556 ug/l

RT: 7.191 min Scan# 89

Delta R.T. -0.012 min

Lab File: VD073691.D

Acq: 24 Jun 2022 16:56

Instrument :

MSVOA_D

ClientSampleId :

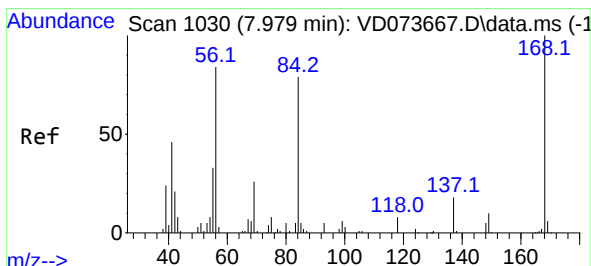
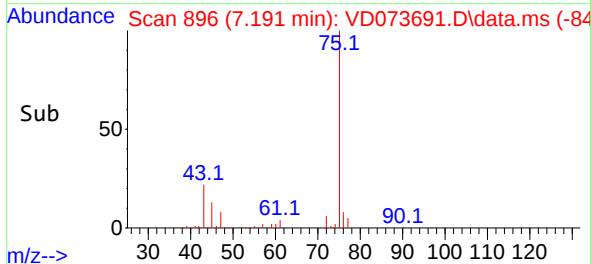
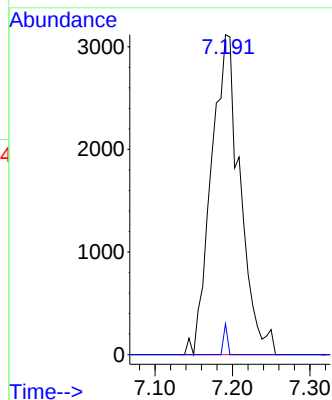
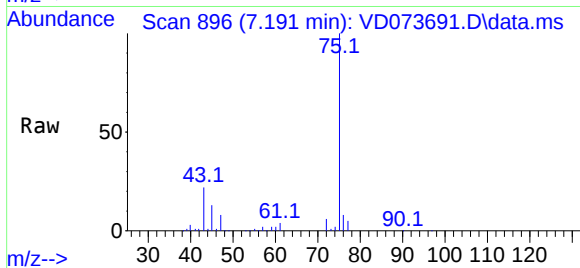
20071

Tgt Ion: 77 Resp: 8068

Ion Ratio Lower Upper

77 100

97 1.3 11.2 33.6#



#31

Cyclohexane

Concen: 1.054 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD073691.D

Acq: 24 Jun 2022 16:56

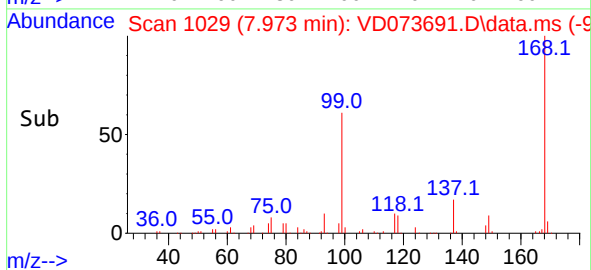
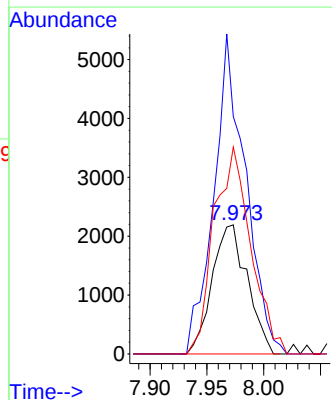
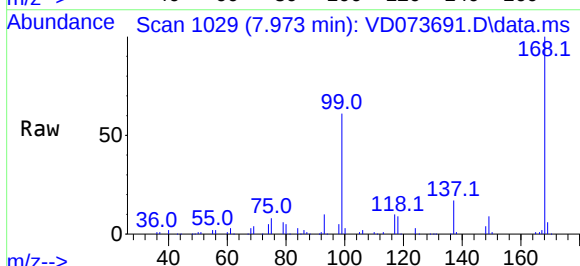
Tgt Ion: 56 Resp: 4718

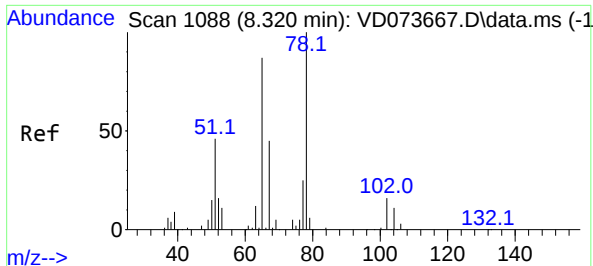
Ion Ratio Lower Upper

56 100

69 183.9 25.2 37.8#

84 160.3 75.4 113.2#

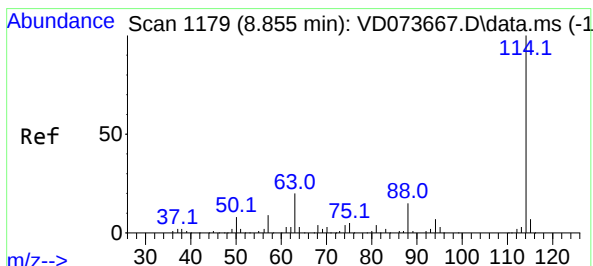
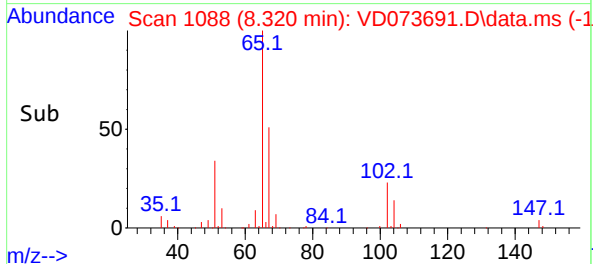
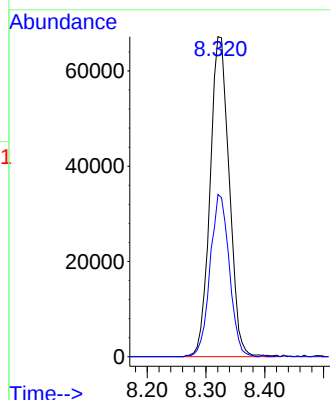
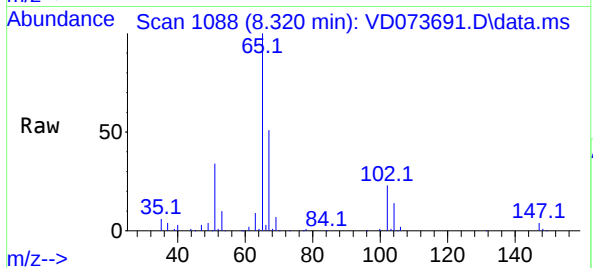




#33
1,2-Dichloroethane-d4
Concen: 50.980 ug/l
RT: 8.320 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

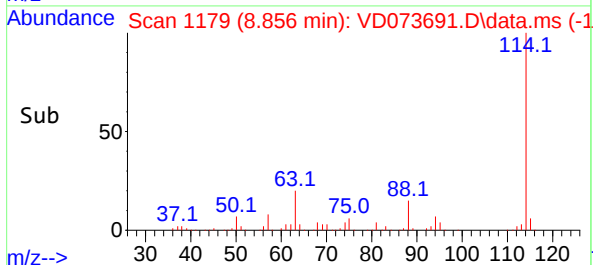
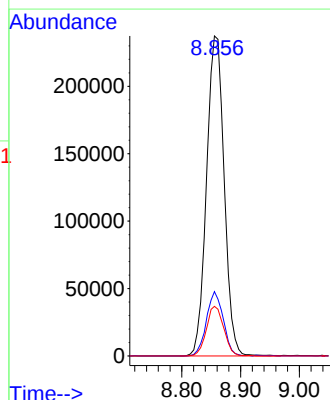
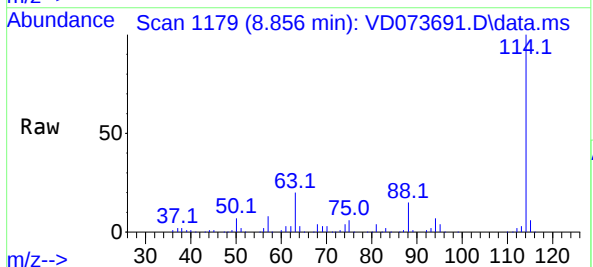
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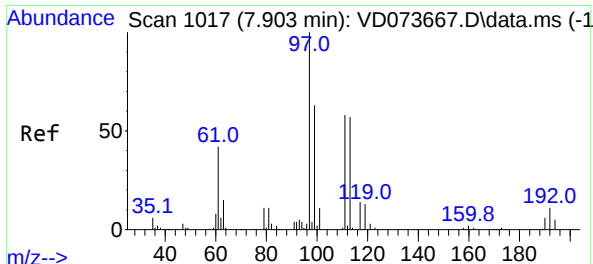
Tgt Ion: 65 Resp: 152152
Ion Ratio Lower Upper
65 100
67 50.7 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.856 min Scan# 1179
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 114 Resp: 495742
Ion Ratio Lower Upper
114 100
63 20.1 0.0 39.2
88 15.5 0.0 29.4

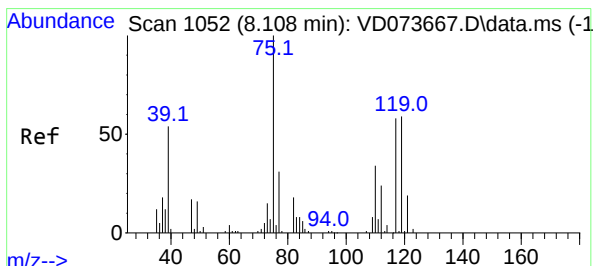
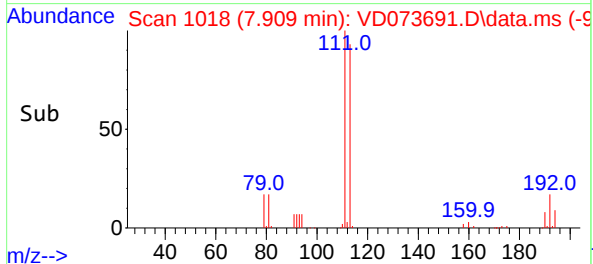
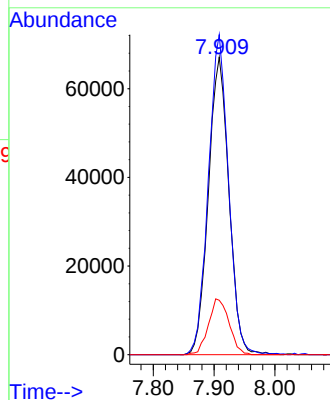
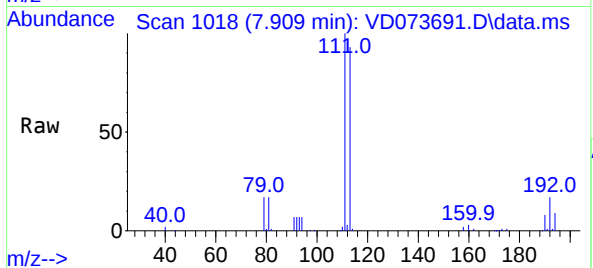




#35
Dibromofluoromethane
Concen: 40.742 ug/l
RT: 7.909 min Scan# 1017
Delta R.T. 0.006 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

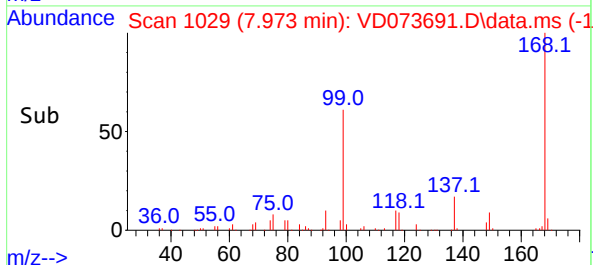
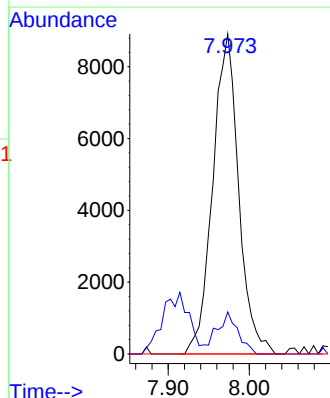
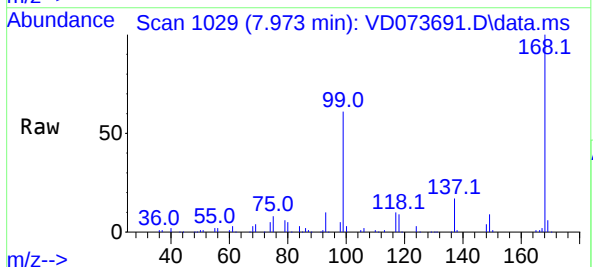
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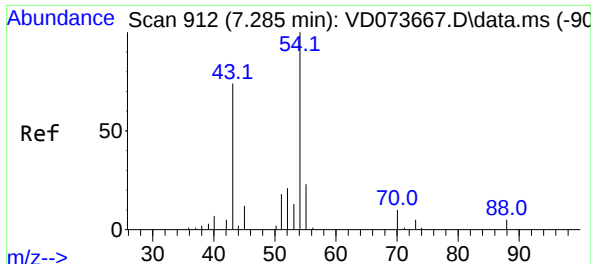
Tgt Ion:113 Resp: 157340
Ion Ratio Lower Upper
113 100
111 105.5 81.8 122.6
192 18.8 14.8 22.2



#36
1,1-Dichloropropene
Concen: 3.643 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 75 Resp: 19749
Ion Ratio Lower Upper
75 100
110 10.2 18.0 54.0#
77 0.0 25.6 38.4#

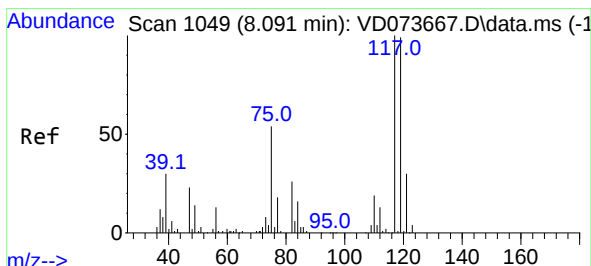
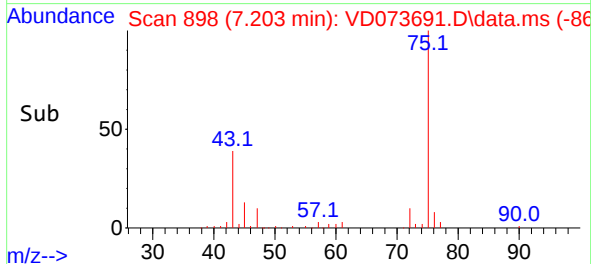
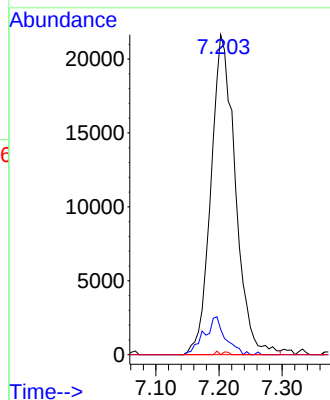
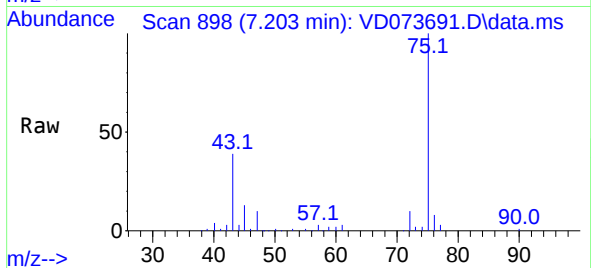




#37
Ethyl Acetate
Concen: 27.309 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.082 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

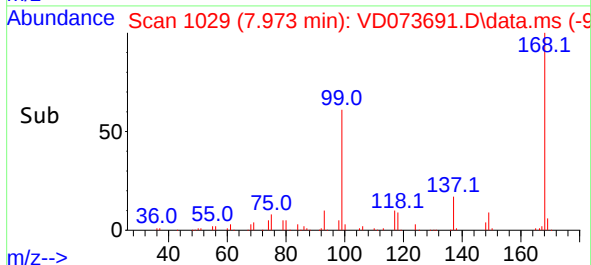
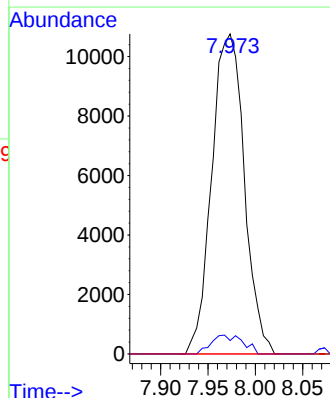
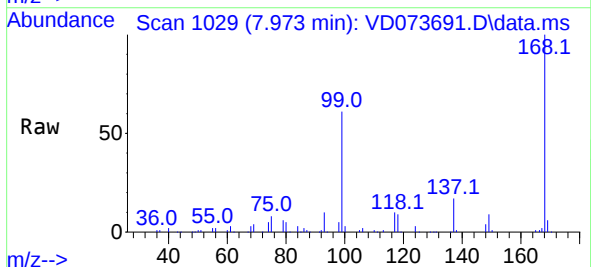
Instrument :
MSVOA_D
ClientSampleId :
20071

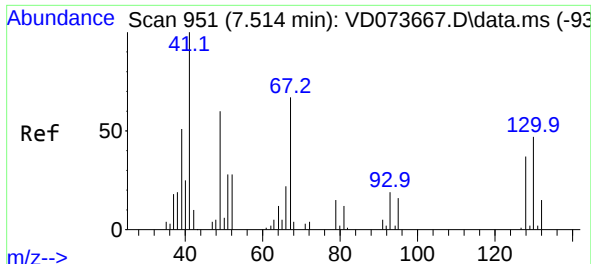
Tgt Ion: 43 Resp: 58105
Ion Ratio Lower Upper
43 100
61 10.2 10.6 16.0#
70 0.1 9.9 14.9#



#38
Carbon Tetrachloride
Concen: 4.078 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 117 Resp: 25739
Ion Ratio Lower Upper
117 100
119 4.2 79.2 118.8#
121 0.0 23.8 35.8#

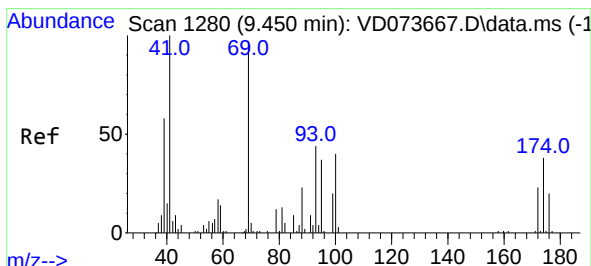
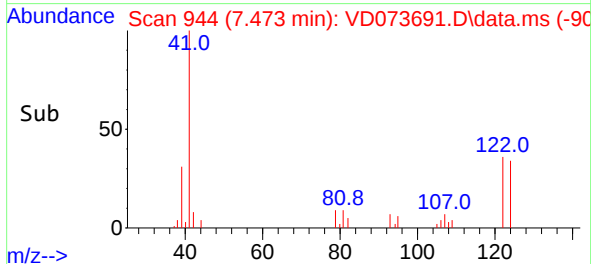
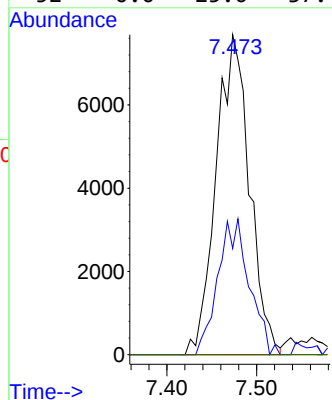
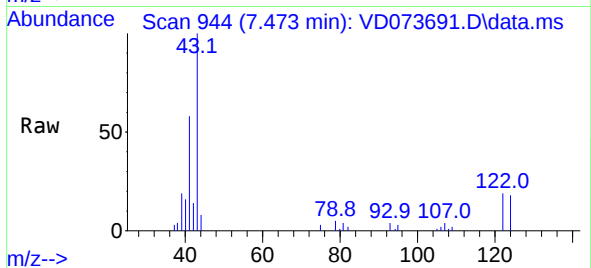




#41
Methacrylonitrile
Concen: 15.443 ug/l
RT: 7.473 min Scan# 944
Delta R.T. -0.041 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

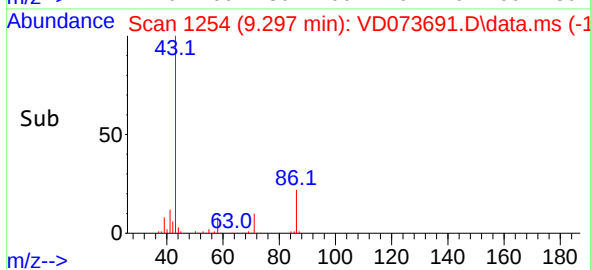
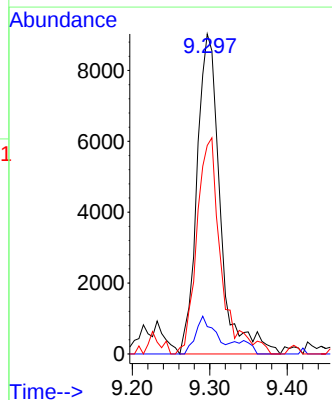
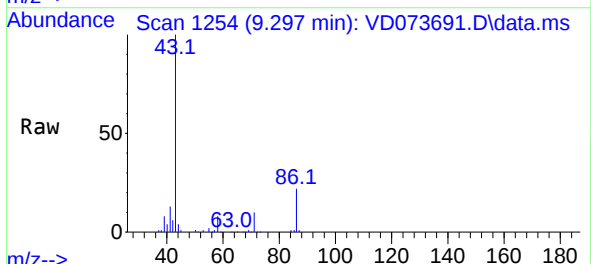
Instrument :
MSVOA_D
ClientSampleId :
20071

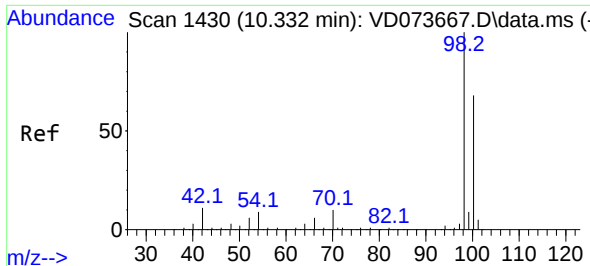
Tgt Ion: 41	Resp: 19836
Ion Ratio	Lower Upper
41 100	
39 39.9	42.1 63.1#
67 0.0	58.6 87.8#
52 0.0	25.0 37.4#



#48
Methyl methacrylate
Concen: 8.865 ug/l
RT: 9.297 min Scan# 1254
Delta R.T. -0.153 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 41	Resp: 18784
Ion Ratio	Lower Upper
41 100	
69 9.7	69.6 104.4#
39 70.0	45.5 68.3#

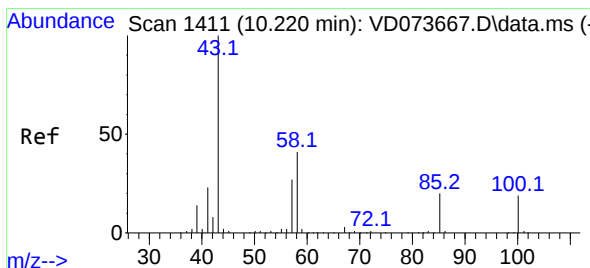
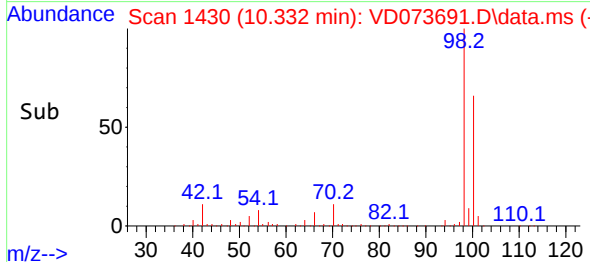
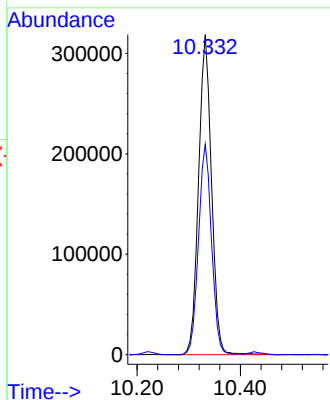
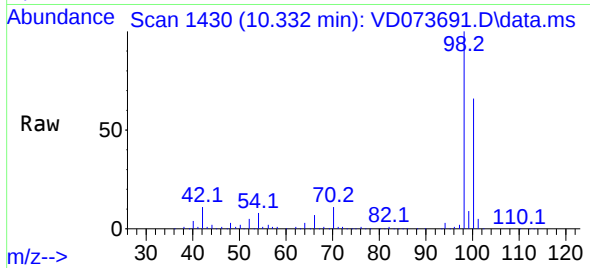




#50
Toluene-d8
Concen: 39.846 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

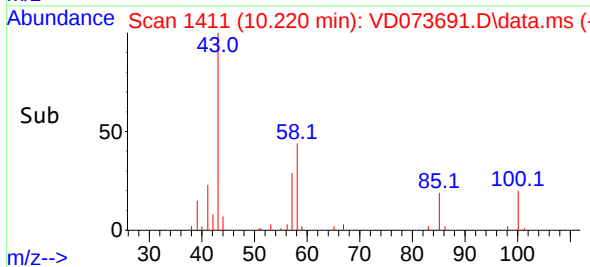
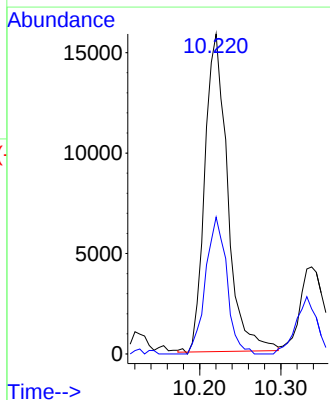
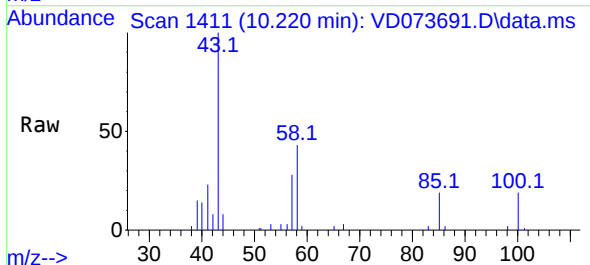
Instrument :
MSVOA_D
ClientSampleId :
20071

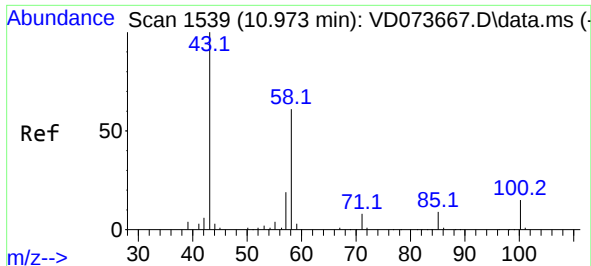
Tgt Ion: 98 Resp: 552508
Ion Ratio Lower Upper
98 100
100 66.2 54.0 81.0



#51
4-Methyl-2-Pentanone
Concen: 14.369 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 43 Resp: 30829
Ion Ratio Lower Upper
43 100
58 39.9 32.3 48.5

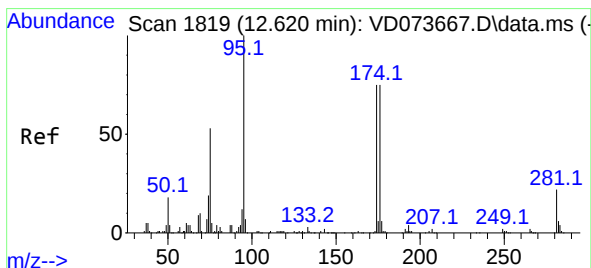
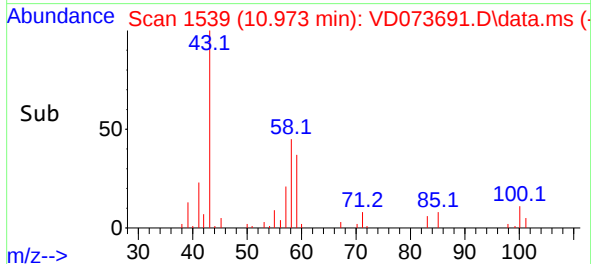
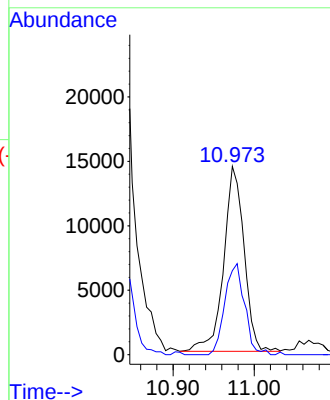
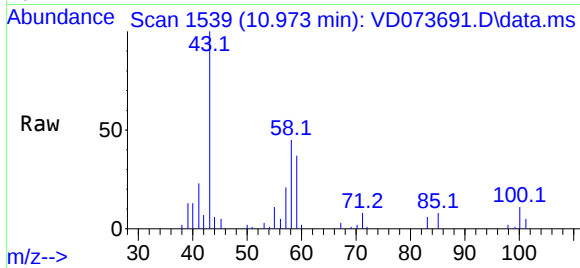




#59
2-Hexanone
Concen: 17.381 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

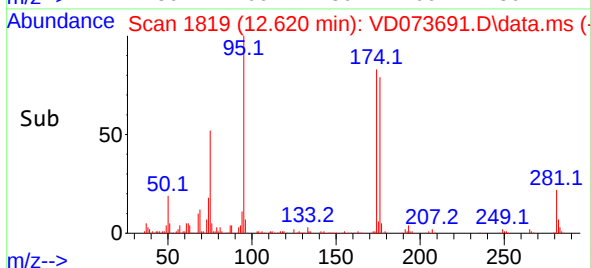
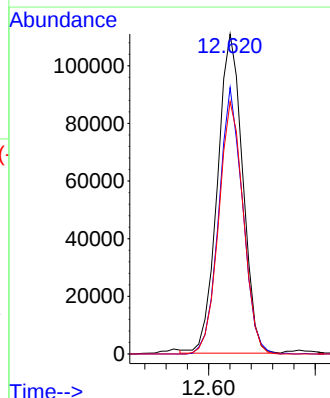
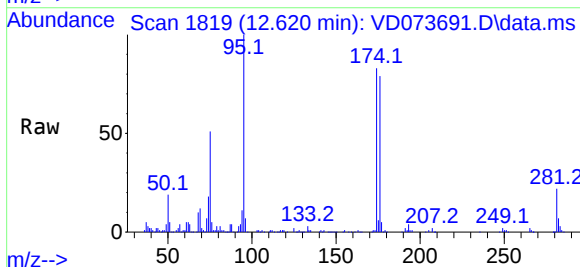
Instrument :
MSVOA_D
ClientSampleId :
20071

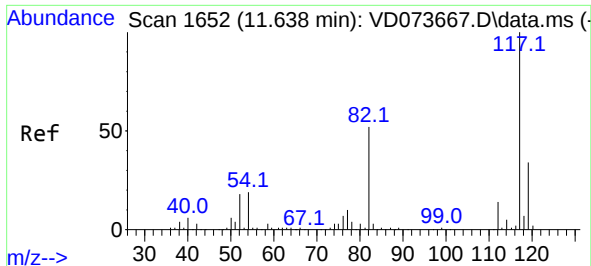
Tgt Ion: 43 Resp: 25175
Ion Ratio Lower Upper
43 100
58 47.4 28.8 86.4



#62
4-Bromofluorobenzene
Concen: 34.931 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 95 Resp: 181664
Ion Ratio Lower Upper
95 100
174 78.8 0.0 158.4
176 77.0 0.0 154.8

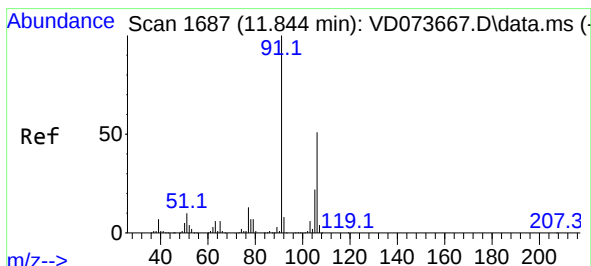
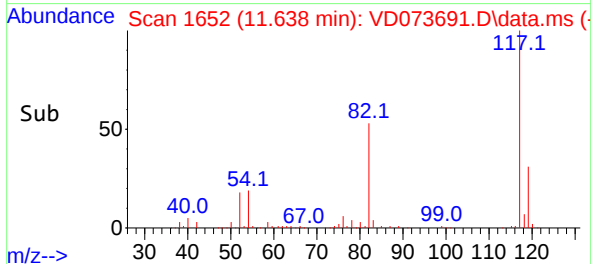
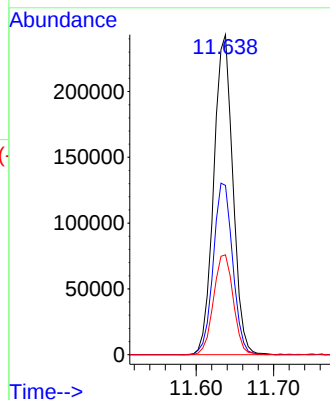
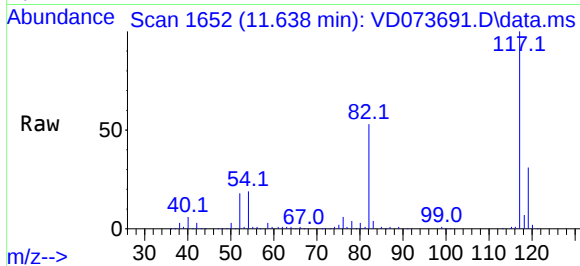




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

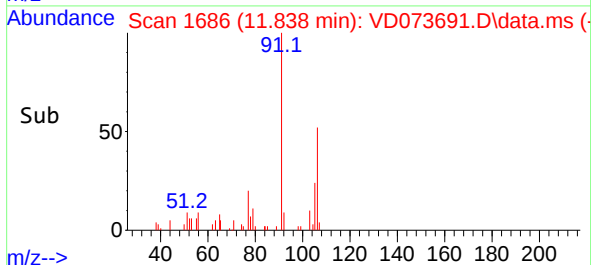
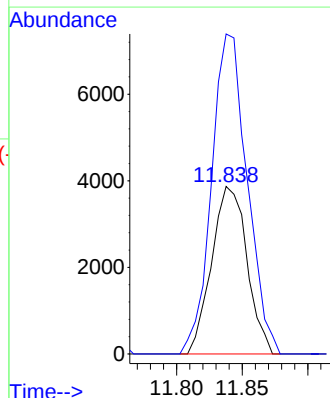
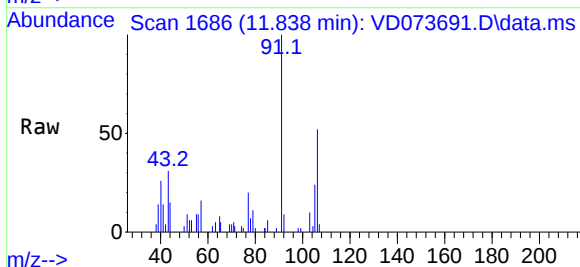
Instrument :
MSVOA_D
ClientSampleId :
20071

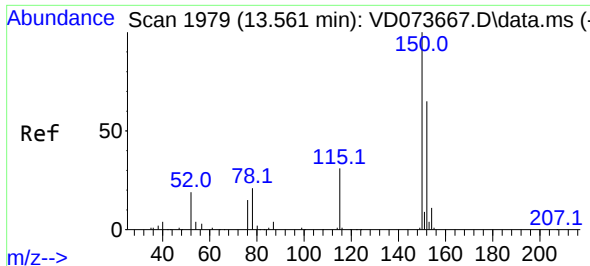
Tgt Ion:117 Resp: 416535
Ion Ratio Lower Upper
117 100
82 52.9 41.5 62.3
119 31.2 27.1 40.7



#68
m/p-Xylenes
Concen: 1.052 ug/l
RT: 11.838 min Scan# 1686
Delta R.T. -0.006 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

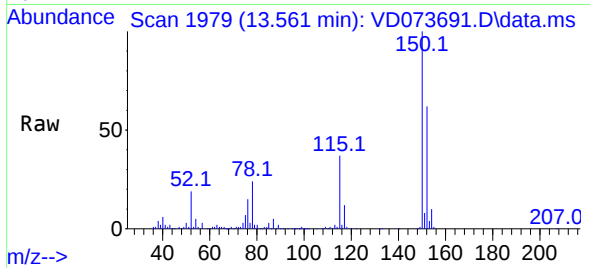
Tgt Ion:106 Resp: 7232
Ion Ratio Lower Upper
106 100
91 193.0 161.4 242.2



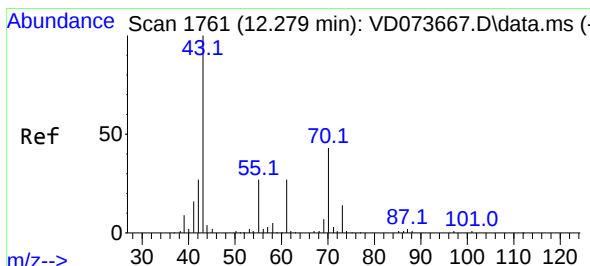
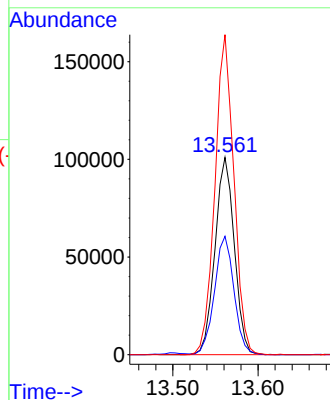
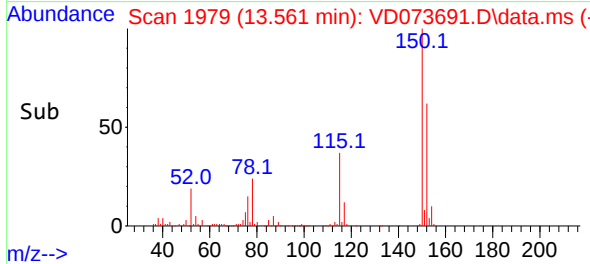


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

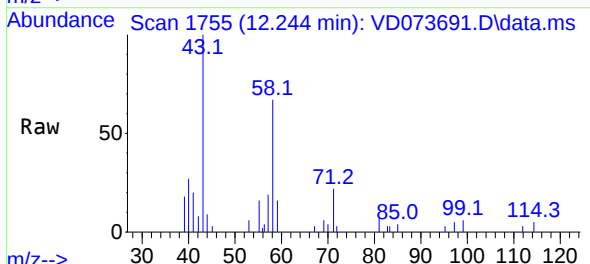
Instrument :
MSVOA_D
ClientSampleId :
20071



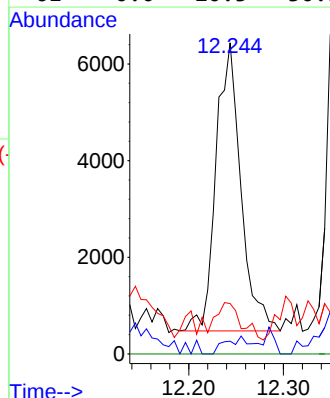
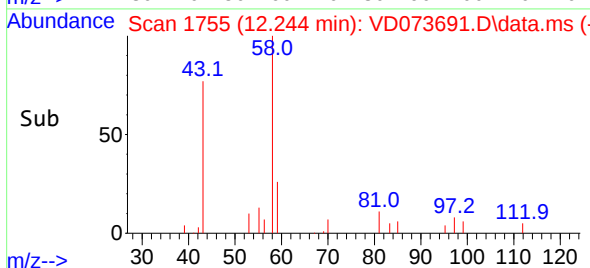
Tgt Ion:152 Resp: 159272
Ion Ratio Lower Upper
152 100
115 60.8 30.6 91.6
150 159.6 0.0 355.0

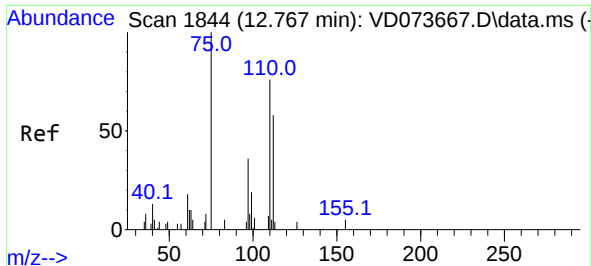


#74
N-ethyl acetate
Concen: 4.093 ug/l
RT: 12.244 min Scan# 1755
Delta R.T. -0.035 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56



Tgt Ion: 43 Resp: 10893
Ion Ratio Lower Upper
43 100
70 5.6 35.0 52.6#
55 13.1 21.0 31.4#
61 0.0 20.3 30.5#

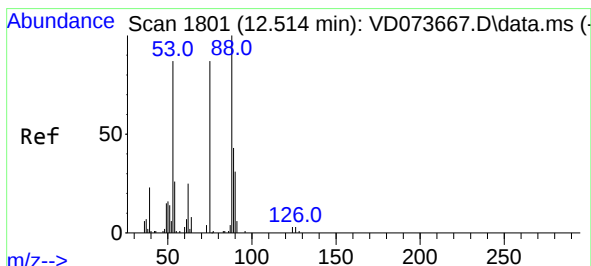
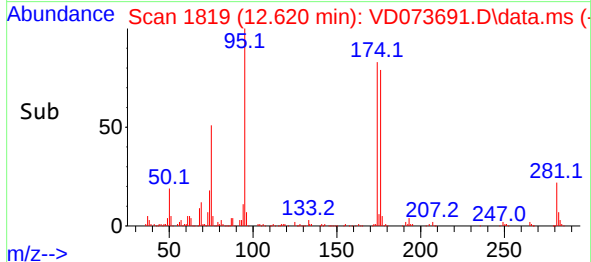
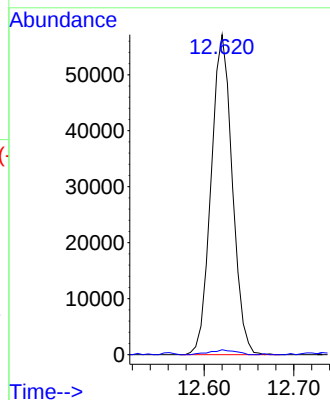
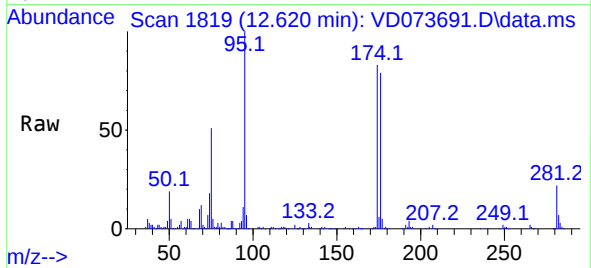




#76
1,2,3-Trichloropropane
Concen: 60.387 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.147 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

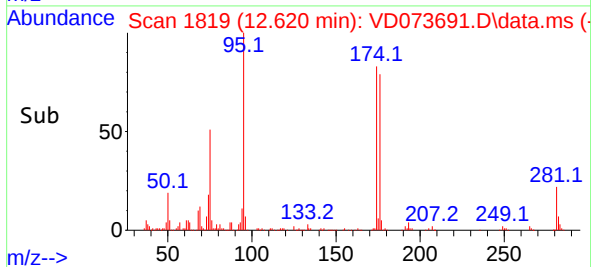
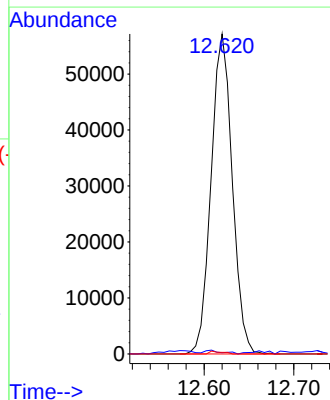
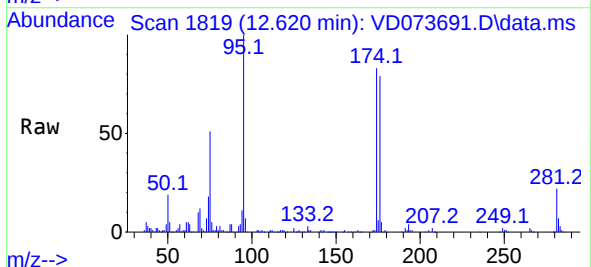
Instrument :
MSVOA_D
ClientSampleId :
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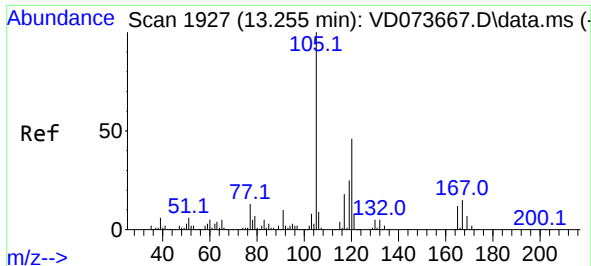
Tgt Ion: 75 Resp: 93597
Ion Ratio Lower Upper
75 100
77 1.9 195.3 586.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 123.284 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

Tgt Ion: 75 Resp: 93597
Ion Ratio Lower Upper
75 100
53 0.9 77.0 115.6#
89 0.5 37.8 56.8#

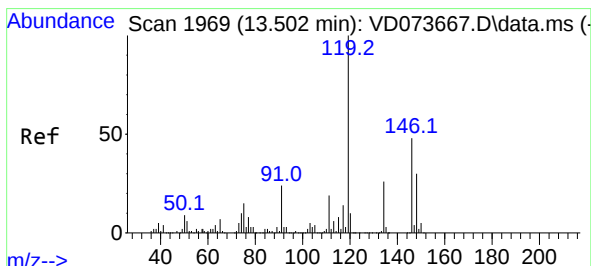
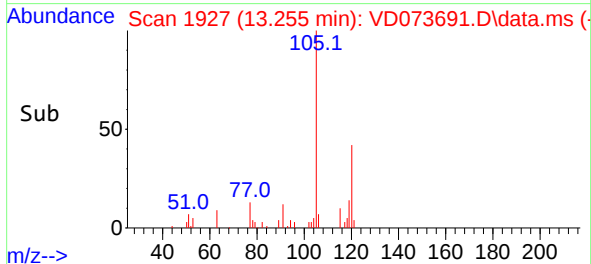
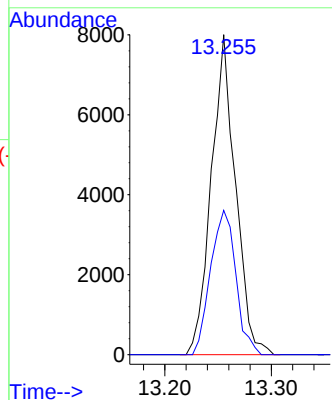
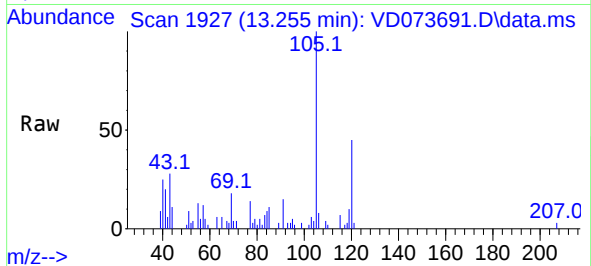




#84
1,2,4-Trimethylbenzene
Concen: 1.152 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

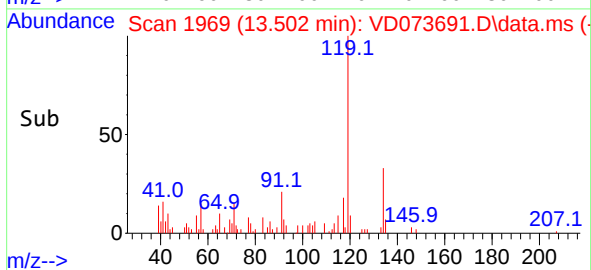
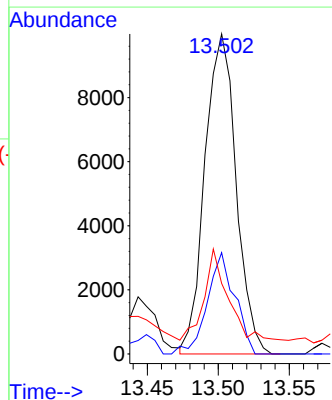
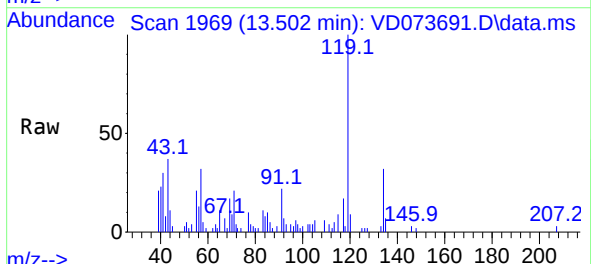
Instrument :
MSVOA_D
ClientSampleId :
20071

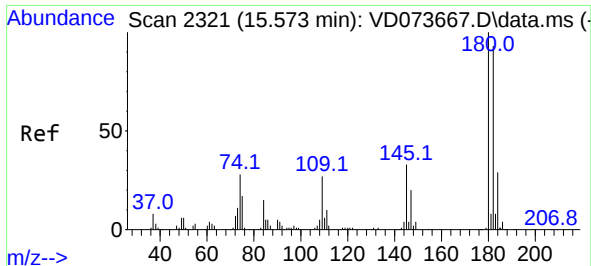
Tgt Ion:105 Resp: 12620
Ion Ratio Lower Upper
105 100
120 47.1 22.6 67.8



#86
p-Isopropyltoluene
Concen: 1.274 ug/l
RT: 13.502 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD073691.D
Acq: 24 Jun 2022 16:56

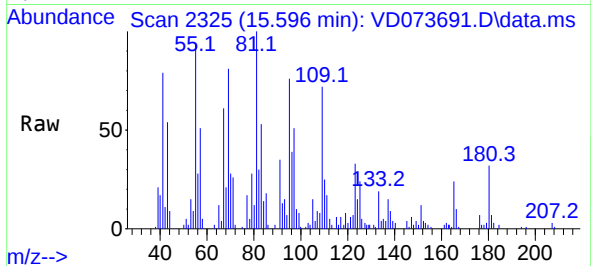
Tgt Ion:119 Resp: 15287
Ion Ratio Lower Upper
119 100
134 27.8 13.0 39.0
91 28.4 12.1 36.3





#96
 1,2,3-Trichlorobenzene
 Concen: 2.861 ug/l
 RT: 15.596 min Scan# 21
 Delta R.T. 0.024 min
 Lab File: VD073691.D
 Acq: 24 Jun 2022 16:56

Instrument :
 MSVOA_D
 ClientSampleId :
 20071



Tgt Ion:180 Resp: 8363
 Ion Ratio Lower Upper
 180 100
 182 15.4 49.0 147.0#
 145 0.0 17.6 52.8#

