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 Data File : VD072708.D
 Acq On : 25 Apr 2022 15:20
 Operator : VA/SY
 Sample : N2554-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

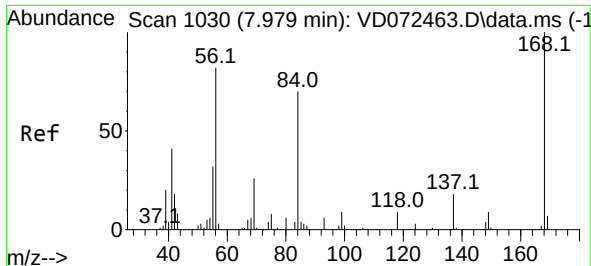
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-2520253

Quant Time: Apr 26 01:14:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D032922S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 30 02:44:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.973	168	97562	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	162900	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	163736	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	76851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	61364	51.994	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.980%			
35) Dibromofluoromethane	7.903	113	54341	42.925	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 85.840%			
50) Toluene-d8	10.332	98	198920	45.203	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 90.400%			
62) 4-Bromofluorobenzene	12.620	95	76583	44.561	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 89.120%			
Target Compounds					Qvalue	
3) Chloromethane	2.209	50	914	1.276	ug/l #	87
4) Vinyl Chloride	2.344	62	410	1.439	ug/l #	43
5) Bromomethane	2.779	94	1527	2.767	ug/l #	72
10) Methyl Iodide	4.291	142	1543	5.098	ug/l #	65
11) Tert butyl alcohol	5.185	59	7541	120.994	ug/l #	74
14) Allyl chloride	4.715	41	158	1.227	ug/l #	71
16) Acetone	4.168	43	5357	24.342	ug/l	97
17) Carbon Disulfide	4.403	76	1329	4.275	ug/l #	74
20) Methylene Chloride	4.968	84	13312	10.161	ug/l #	79
23) Vinyl Acetate	6.291	43	107	6.344	ug/l #	75
25) 2-Butanone	7.185	43	995	3.269	ug/l #	52
31) Cyclohexane	7.985	56	8821	5.716	ug/l #	90
36) 1,1-Dichloropropene	8.097	75	344	1.332	ug/l #	76
37) Ethyl Acetate	7.291	43	838	1.249	ug/l #	72
39) Methylcyclohexane	9.344	83	16210	10.985	ug/l	88
41) Methacrylonitrile	7.550	41	60	1.806	ug/l #	31
48) Methyl methacrylate	9.526	41	2261	3.619	ug/l #	58
51) 4-Methyl-2-Pentanone	10.220	43	1996	2.891	ug/l #	67
55) 1,1,2-Trichloroethane	10.761	97	4039	4.129	ug/l #	21
56) Ethyl methacrylate	10.667	69	1994	2.809	ug/l #	25
59) 2-Hexanone	10.944	43	5546	11.813	ug/l #	27
74) N-amyl acetate	12.255	43	6125	4.703	ug/l #	47
76) 1,2,3-Trichloropropane	12.620	75	39833	47.523	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	39833	116.612	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.373	75	261	1.501	ug/l #	20

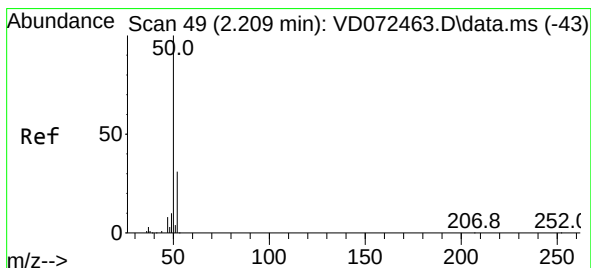
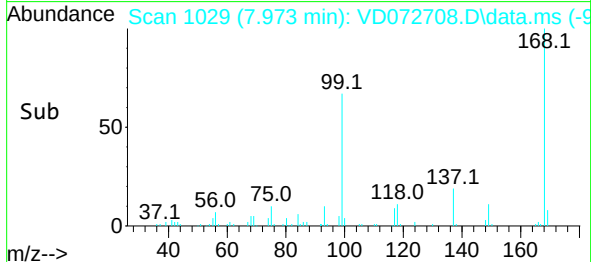
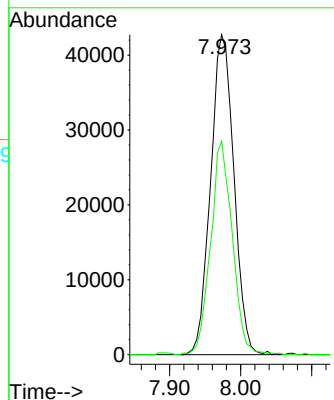
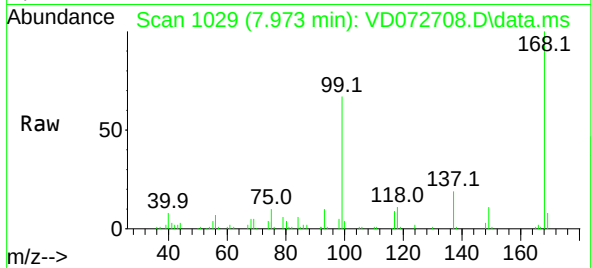
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

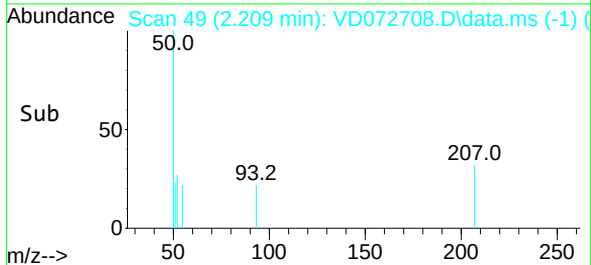
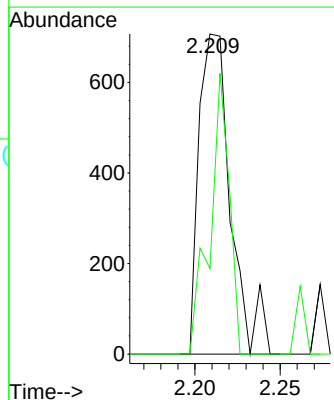
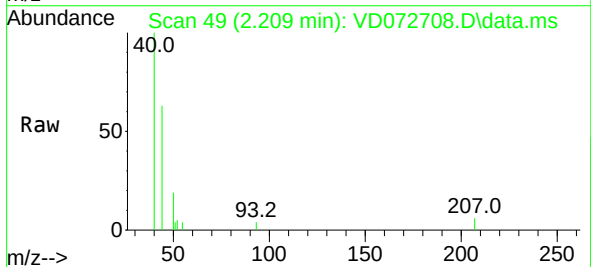
Instrument :
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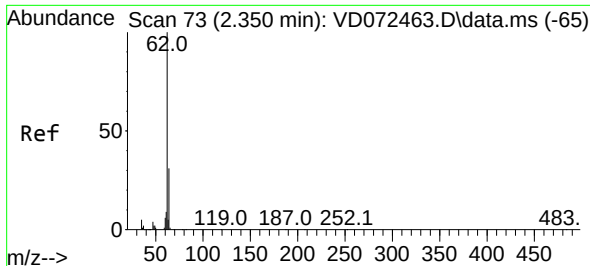
Tgt Ion:168 Resp: 97562
Ion Ratio Lower Upper
168 100
99 66.7 49.8 74.6



#3
Chloromethane
Concen: 1.276 ug/l
RT: 2.209 min Scan# 49
Delta R.T. 0.000 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

Tgt Ion: 50 Resp: 914
Ion Ratio Lower Upper
50 100
52 26.7 27.4 41.0#





#4
 Vinyl Chloride
 Concen: 1.439 ug/l
 RT: 2.344 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

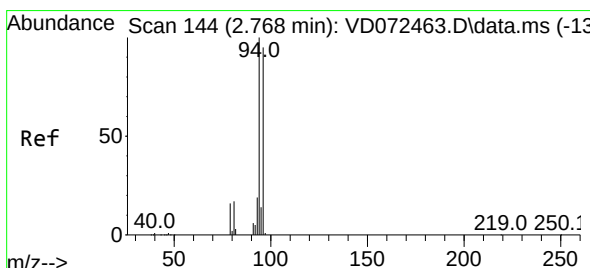
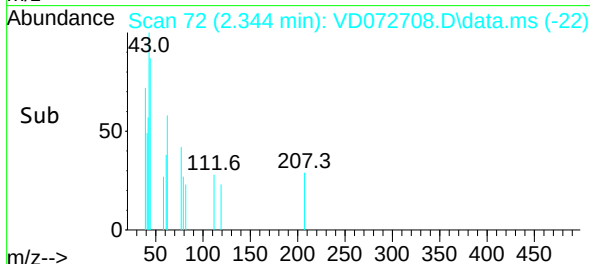
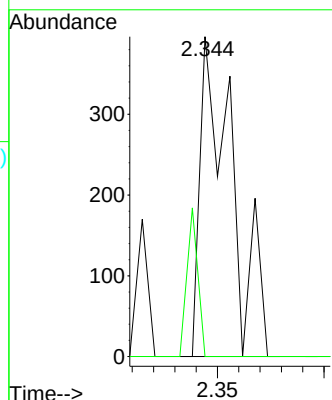
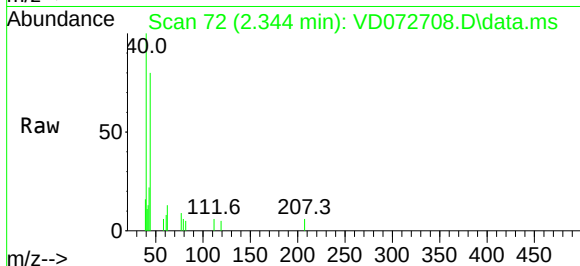
Instrument :

MSVOA_D

ClientSampleId :

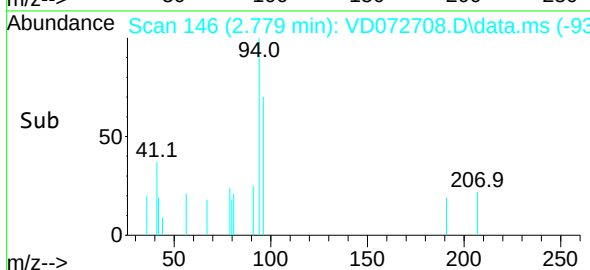
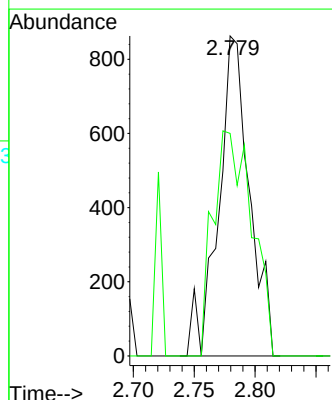
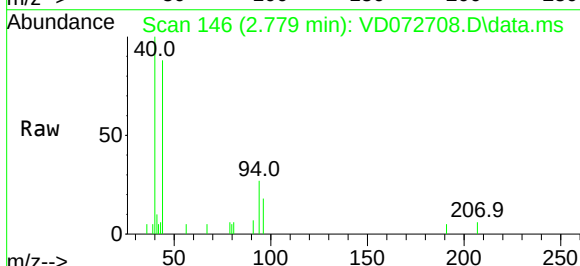
RBR-2520253

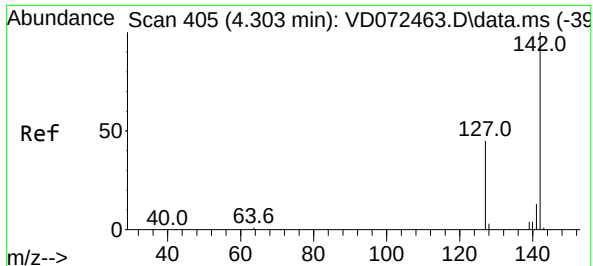
Tgt Ion: 62 Resp: 410
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 2.767 ug/l
 RT: 2.779 min Scan# 146
 Delta R.T. 0.012 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

Tgt Ion: 94 Resp: 1527
 Ion Ratio Lower Upper
 94 100
 96 69.5 77.6 116.4#

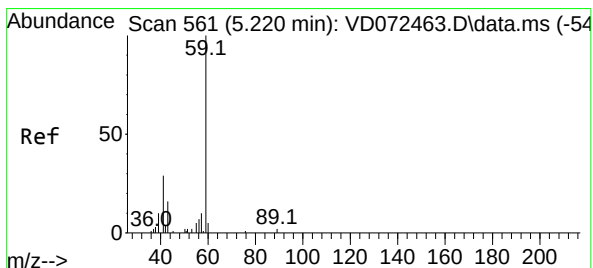
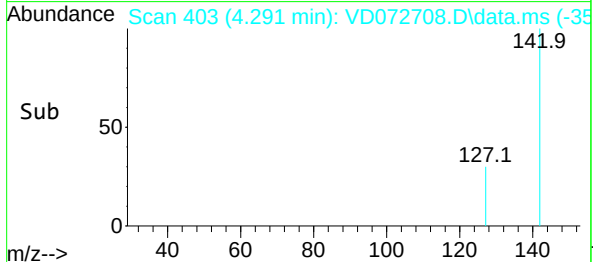
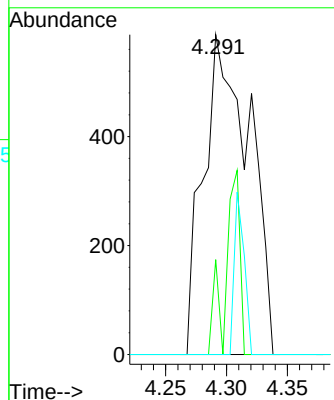
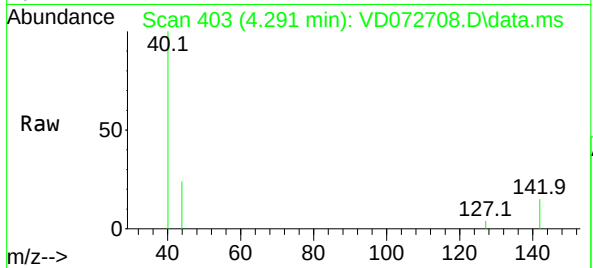




#10
Methyl Iodide
Concen: 5.098 ug/l
RT: 4.291 min Scan# 40
Delta R.T. -0.012 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

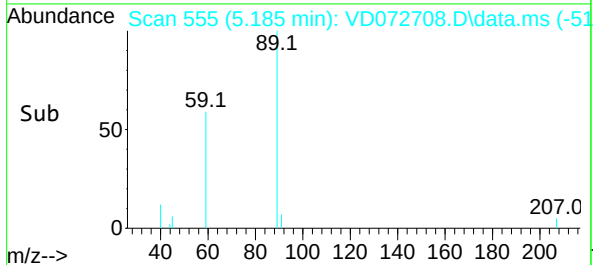
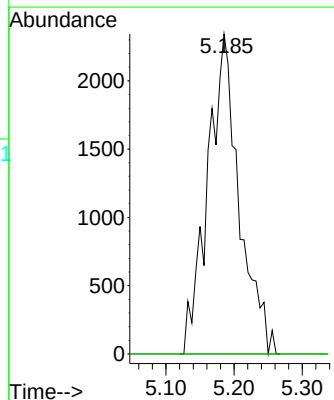
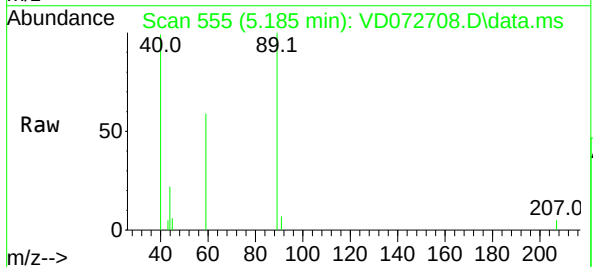
Instrument :
MSVOA_D
ClientSampleId :
RBR-2520253

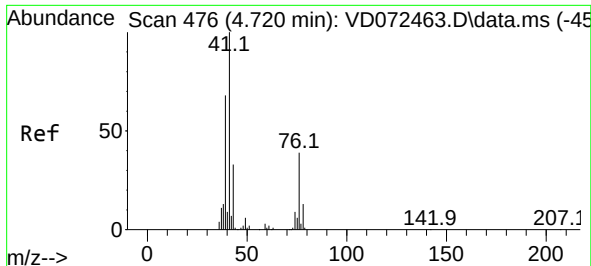
Tgt Ion:142 Resp: 1543
Ion Ratio Lower Upper
142 100
127 18.2 37.3 55.9#
141 11.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 120.994 ug/l
RT: 5.185 min Scan# 555
Delta R.T. -0.035 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

Tgt Ion: 59 Resp: 7541
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

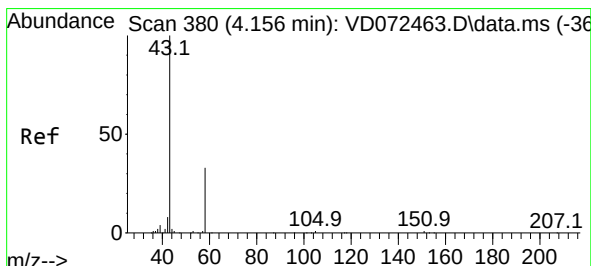
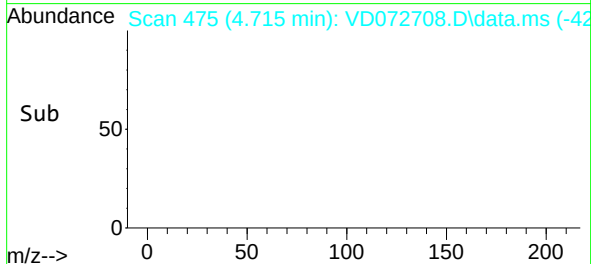
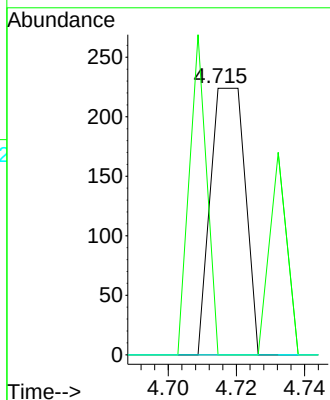
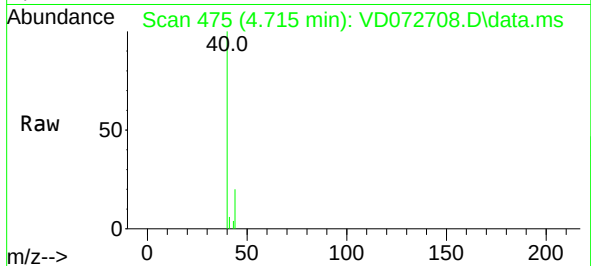




#14
 Allyl chloride
 Concen: 1.227 ug/l
 RT: 4.715 min Scan# 41
 Delta R.T. -0.005 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

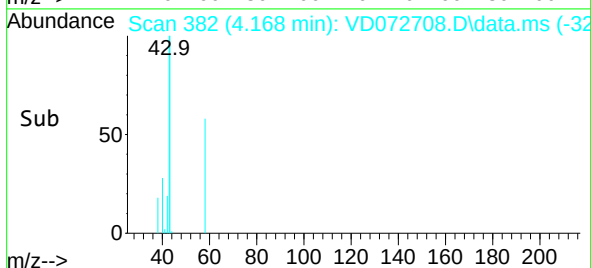
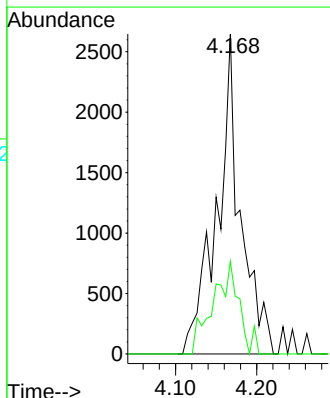
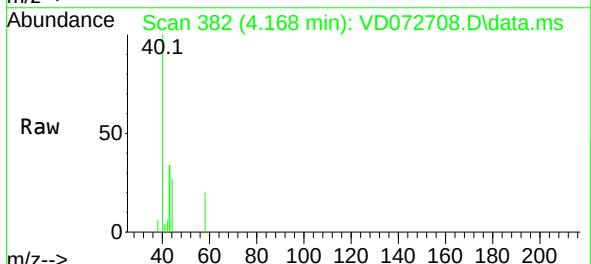
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-2520253

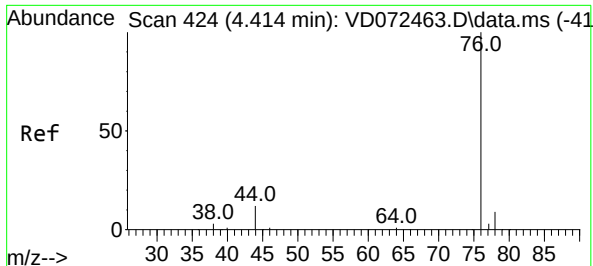
Tgt Ion:	41	Resp:	158
Ion	Ratio	Lower	Upper
41	100		
39	60.1	59.3	88.9
76	0.0	25.7	38.5



#16
 Acetone
 Concen: 24.342 ug/l
 RT: 4.168 min Scan# 382
 Delta R.T. 0.012 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

Tgt Ion:	43	Resp:	5357
Ion	Ratio	Lower	Upper
43	100		
58	28.9	22.1	33.1





#17

Carbon Disulfide

Concen: 4.275 ug/l

RT: 4.403 min Scan# 41

Delta R.T. -0.011 min

Lab File: VD072708.D

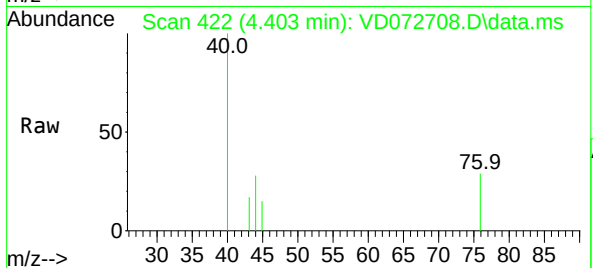
Acq: 25 Apr 2022 15:20

Instrument :

MSVOA_D

ClientSampleId :

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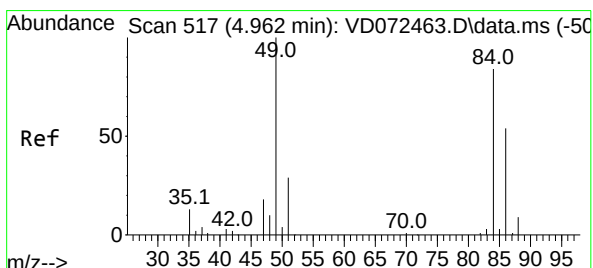
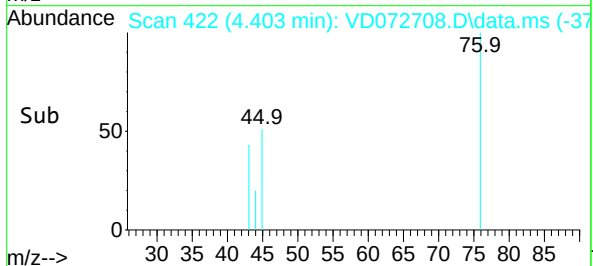
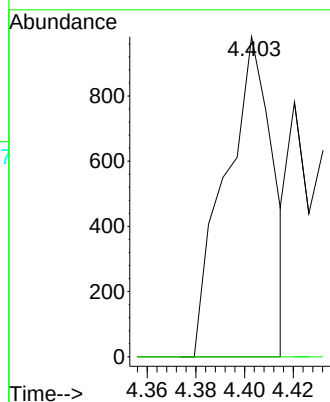


Tgt Ion: 76 Resp: 1329

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



#20

Methylene Chloride

Concen: 10.161 ug/l

RT: 4.968 min Scan# 518

Delta R.T. 0.006 min

Lab File: VD072708.D

Acq: 25 Apr 2022 15:20

Tgt Ion: 84 Resp: 13312

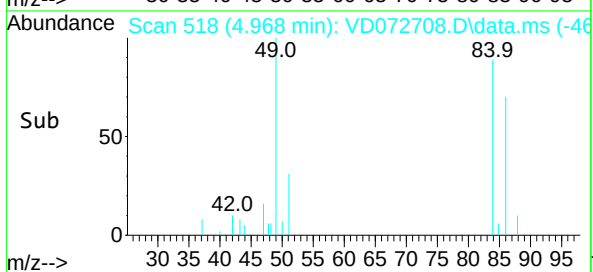
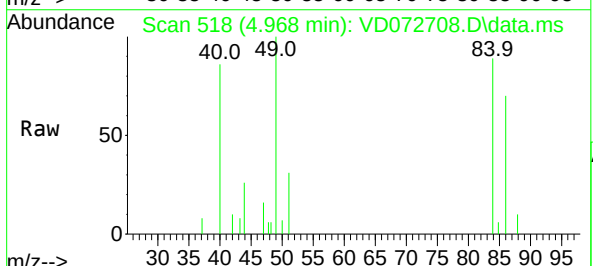
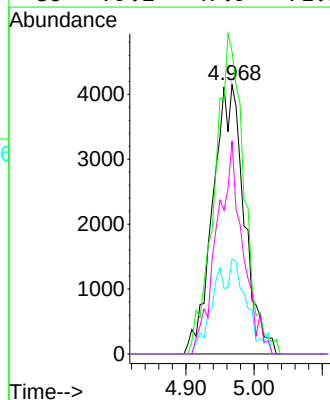
Ion Ratio Lower Upper

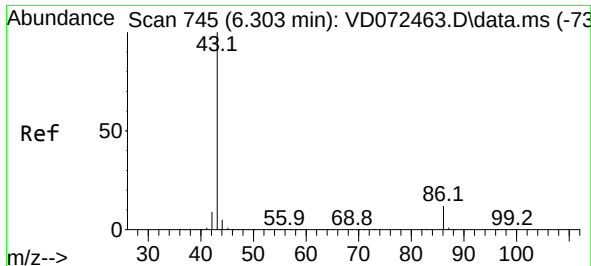
84 100

49 112.4 112.8 169.2#

51 35.3 32.6 48.8

86 79.2 47.9 71.9#

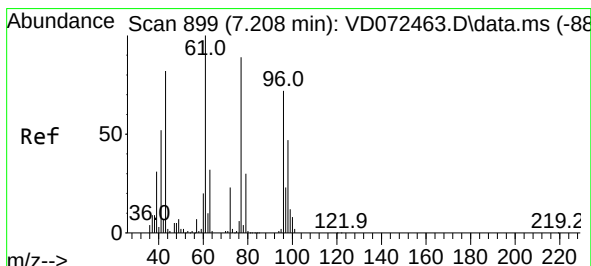
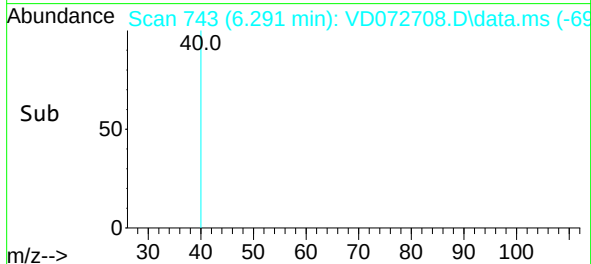
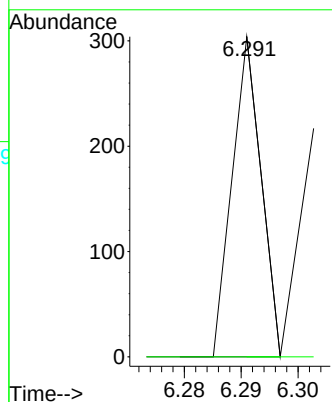
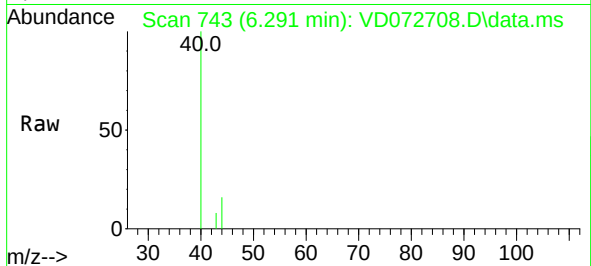




#23
 Vinyl Acetate
 Concen: 6.344 ug/l
 RT: 6.291 min Scan# 745
 Delta R.T. -0.012 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

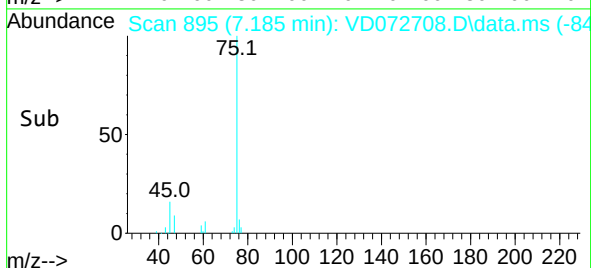
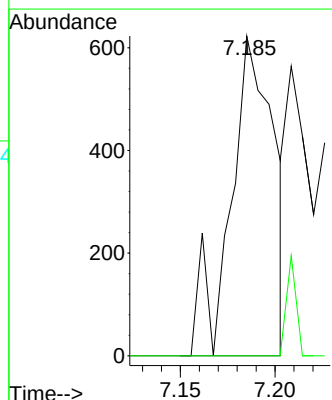
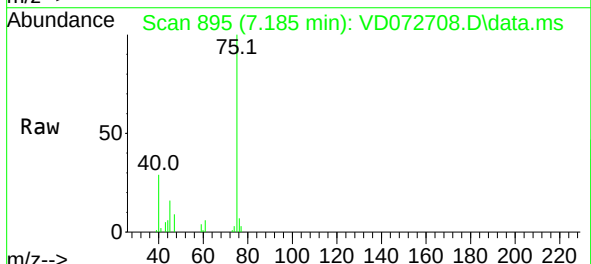
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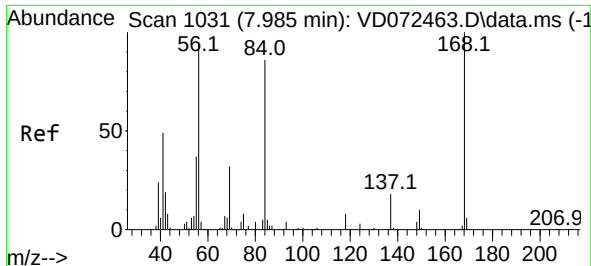
Tgt Ion: 43 Resp: 107
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 3.269 ug/l
 RT: 7.185 min Scan# 895
 Delta R.T. -0.023 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

Tgt Ion: 43 Resp: 995
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#

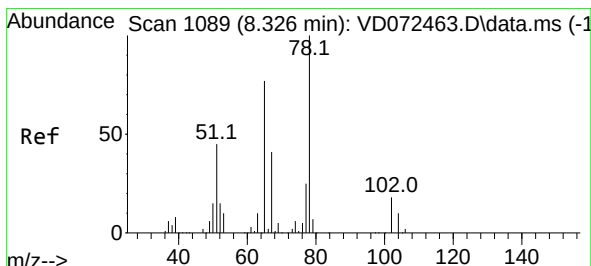
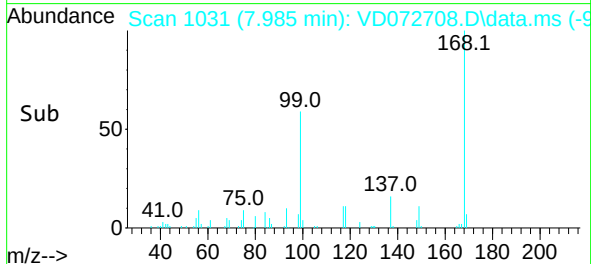
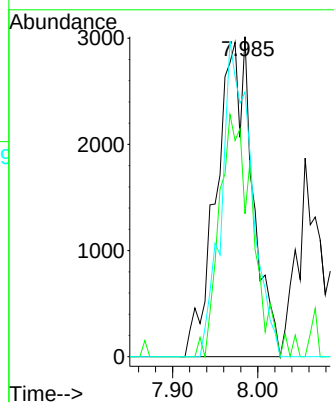
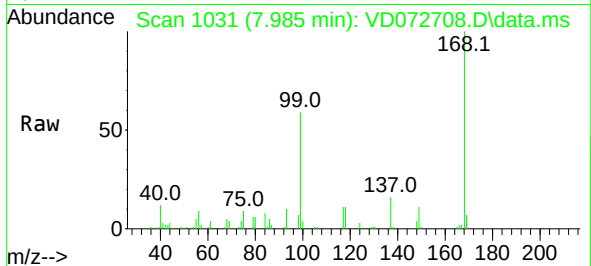




#31
Cyclohexane
Concen: 5.716 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

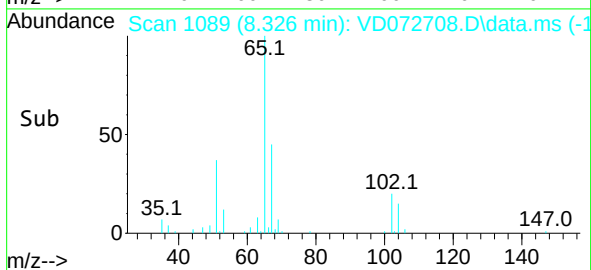
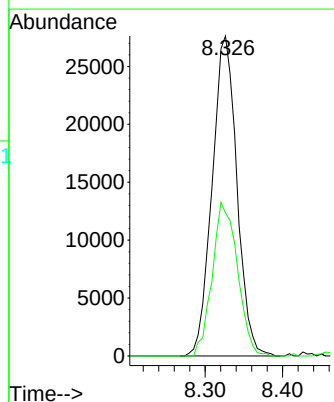
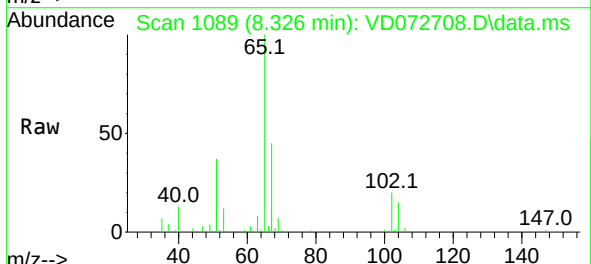
Instrument :
MSVOA_D
ClientSampleId :
RBR-2520253

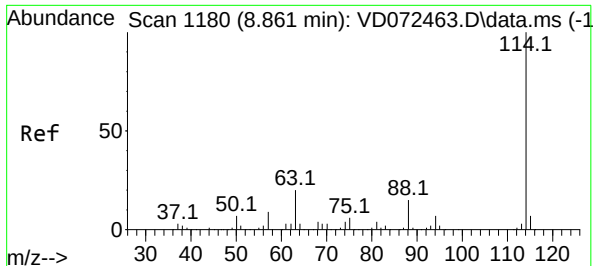
Tgt Ion: 56 Resp: 8821
Ion Ratio Lower Upper
56 100
69 44.7 25.4 38.2#
84 82.7 63.0 94.4



#33
1,2-Dichloroethane-d4
Concen: 51.994 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

Tgt Ion: 65 Resp: 61364
Ion Ratio Lower Upper
65 100
67 49.0 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072708.D

Acq: 25 Apr 2022 15:20

Instrument :

MSVOA_D

ClientSampleId :

RBR-2520253

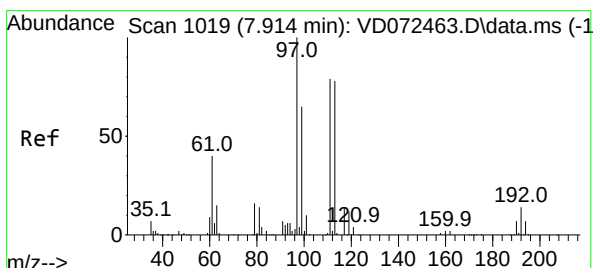
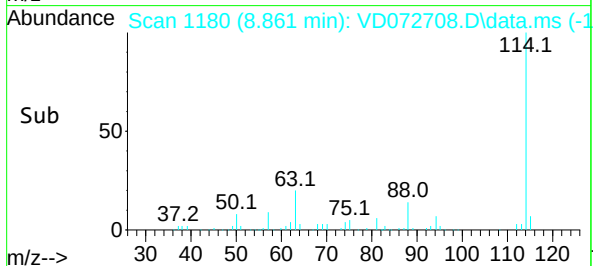
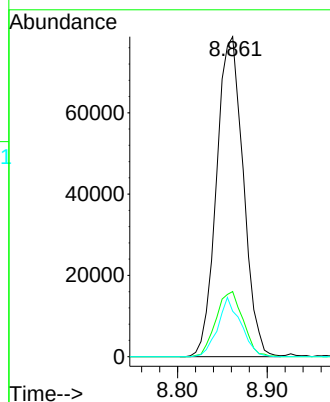
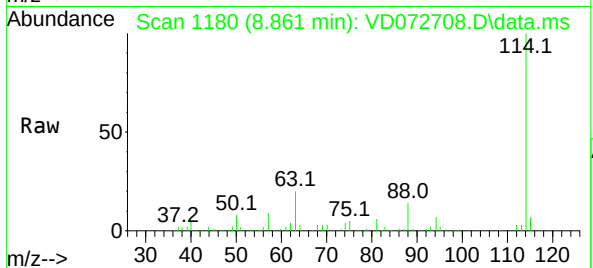
Tgt Ion:114 Resp: 162900

Ion Ratio Lower Upper

114 100

63 20.4 0.0 46.6

88 14.2 0.0 33.2



#35

Dibromofluoromethane

Concen: 42.925 ug/l

RT: 7.903 min Scan# 1017

Delta R.T. -0.012 min

Lab File: VD072708.D

Acq: 25 Apr 2022 15:20

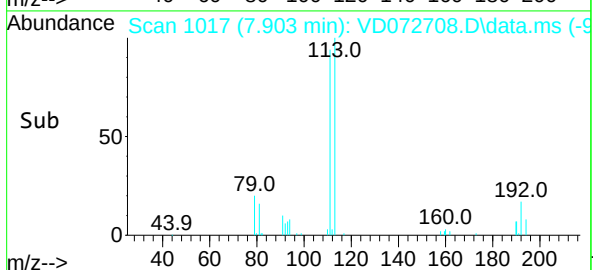
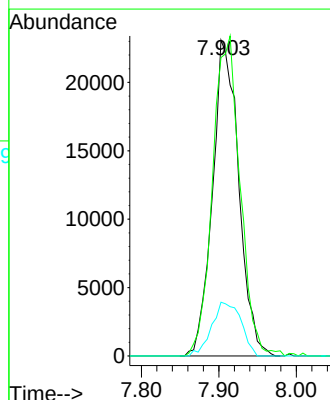
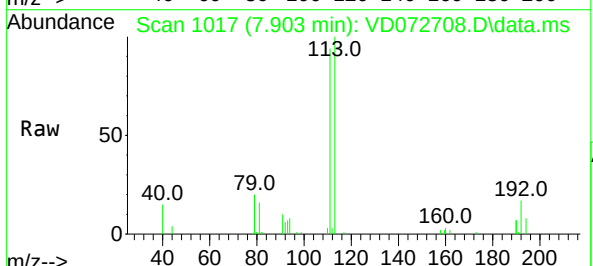
Tgt Ion:113 Resp: 54341

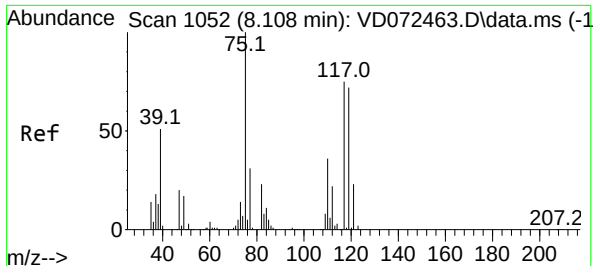
Ion Ratio Lower Upper

113 100

111 106.1 83.8 125.6

192 19.0 14.6 21.8





#36

1,1-Dichloropropene

Concen: 1.332 ug/l

RT: 8.097 min Scan# 1050

Delta R.T. -0.011 min

Lab File: VD072708.D

Acq: 25 Apr 2022 15:20

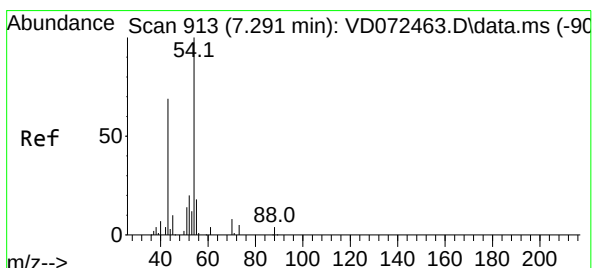
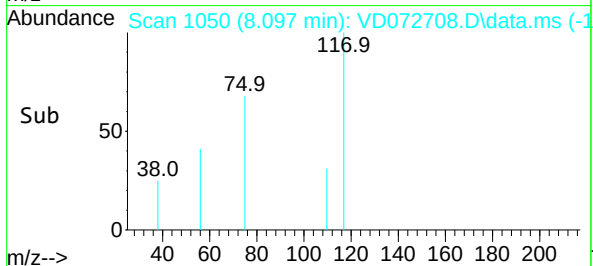
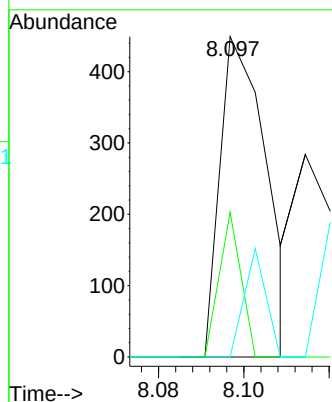
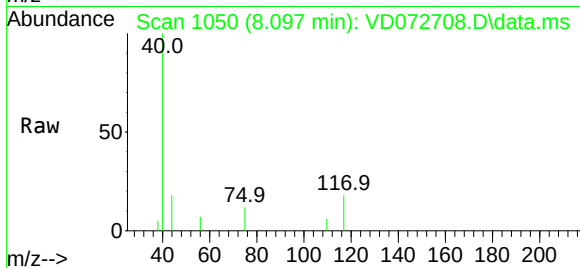
Instrument :

MSVOA_D

ClientSampleId :

RBR-2520253

Tgt Ion: 75	Resp:	344
Ion Ratio	Lower	Upper
75	100	
110	20.9	16.4 49.1
77	15.7	24.2 36.2#



#37

Ethyl Acetate

Concen: 1.249 ug/l

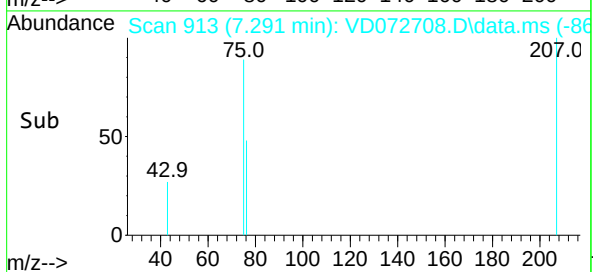
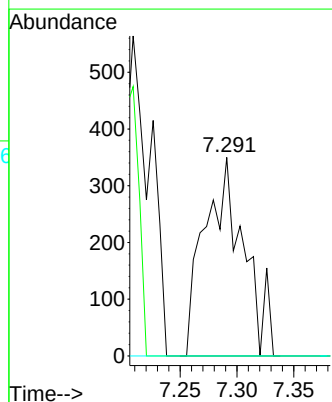
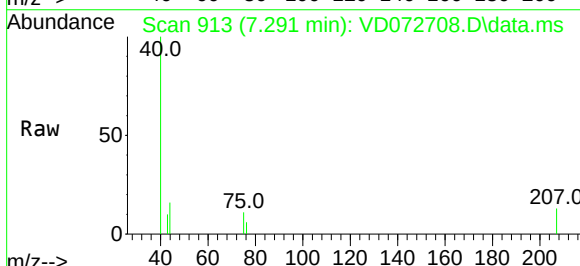
RT: 7.291 min Scan# 913

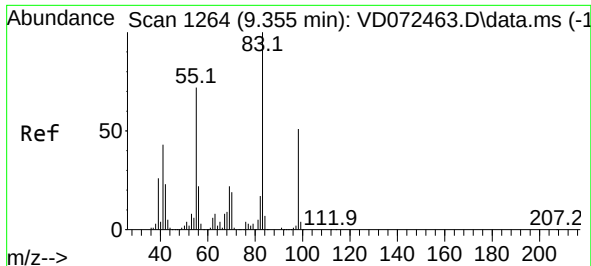
Delta R.T. 0.000 min

Lab File: VD072708.D

Acq: 25 Apr 2022 15:20

Tgt Ion: 43	Resp:	838
Ion Ratio	Lower	Upper
43	100	
61	0.0	9.8 14.8#
70	0.0	6.9 10.3#





#39

Methylcyclohexane

Concen: 10.985 ug/l

RT: 9.344 min Scan# 11

Delta R.T. -0.011 min

Lab File: VD072708.D

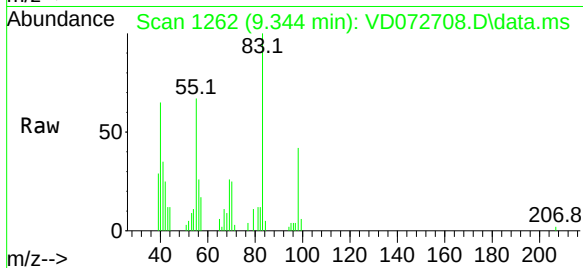
Acq: 25 Apr 2022 15:20

Instrument :

MSVOA_D

ClientSampleId :

RBR-2520253



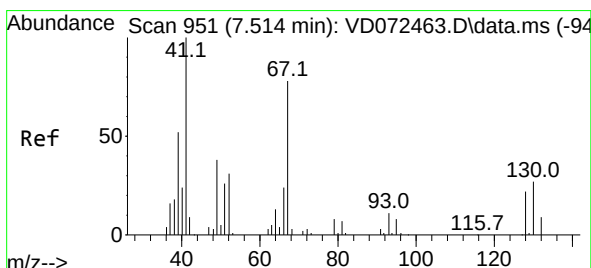
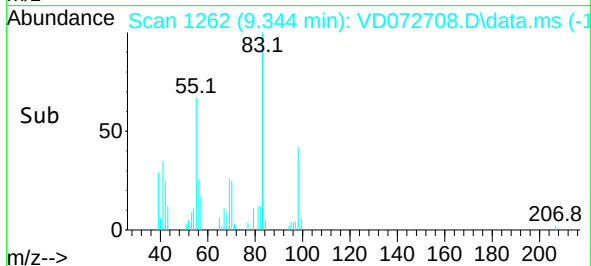
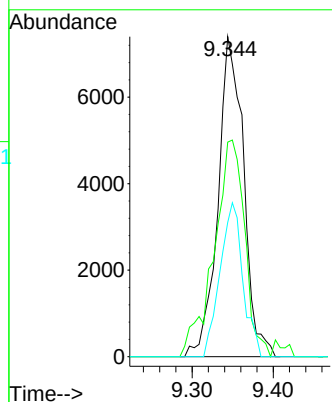
Tgt Ion: 83 Resp: 16210

Ion Ratio Lower Upper

83 100

55 67.1 63.2 94.8

98 41.9 38.2 57.4



#41

Methacrylonitrile

Concen: 1.806 ug/l

RT: 7.550 min Scan# 957

Delta R.T. 0.036 min

Lab File: VD072708.D

Acq: 25 Apr 2022 15:20

Tgt Ion: 41 Resp: 60

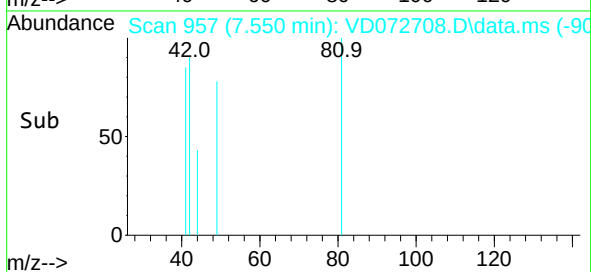
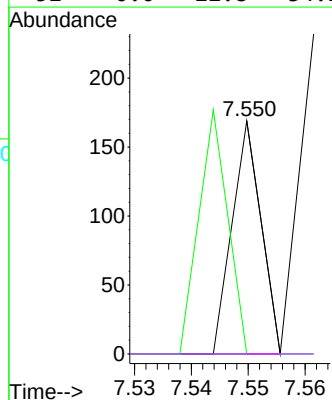
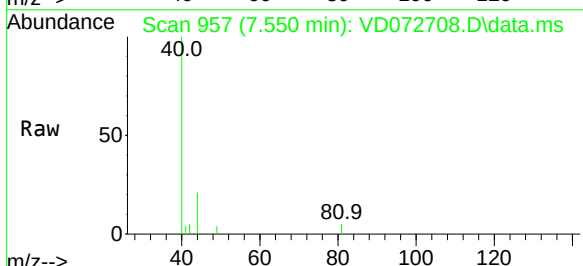
Ion Ratio Lower Upper

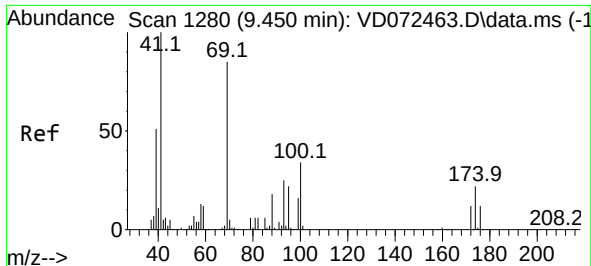
41 100

39 103.3 44.6 67.0#

67 0.0 48.2 72.4#

52 0.0 22.8 34.2#





#48

Methyl methacrylate

Concen: 3.619 ug/l

RT: 9.526 min Scan# 11

Delta R.T. 0.077 min

Lab File: VD072708.D

Acq: 25 Apr 2022 15:20

Instrument :

MSVOA_D

ClientSampleId :

RBR-2520253

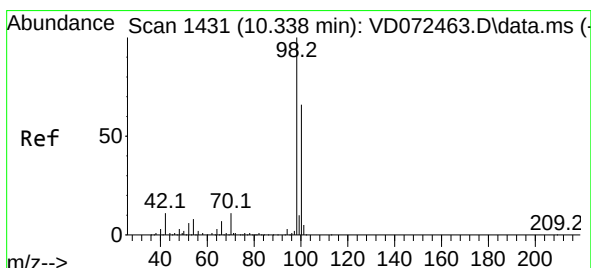
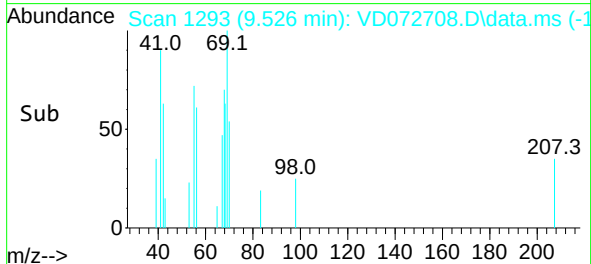
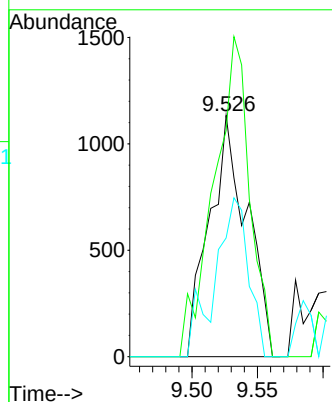
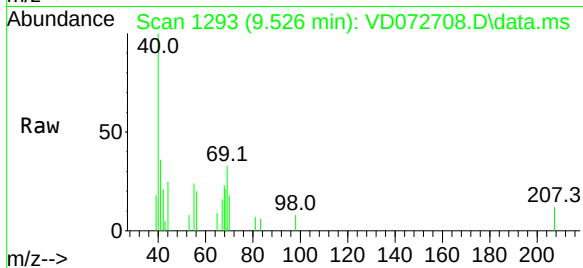
Tgt Ion: 41 Resp: 2261

Ion Ratio Lower Upper

41 100

69 126.4 56.7 85.1#

39 58.7 42.7 64.1



#50

Toluene-d8

Concen: 45.203 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD072708.D

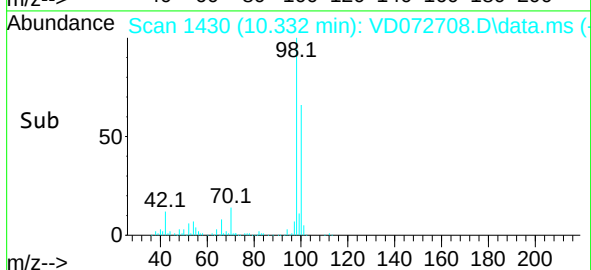
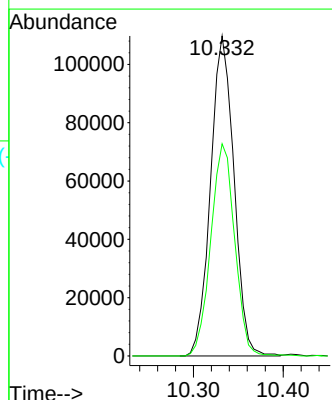
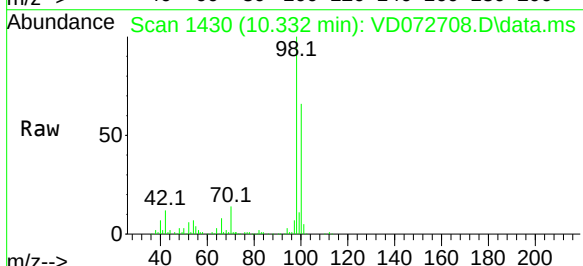
Acq: 25 Apr 2022 15:20

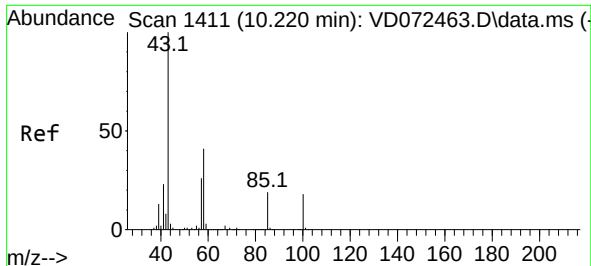
Tgt Ion: 98 Resp: 198920

Ion Ratio Lower Upper

98 100

100 67.7 52.4 78.6

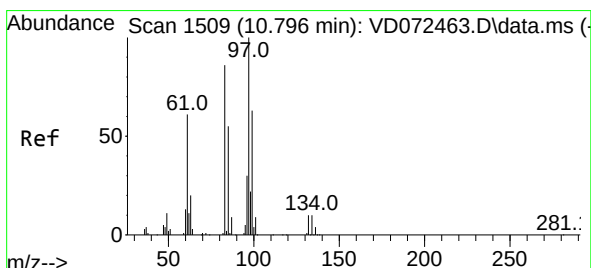
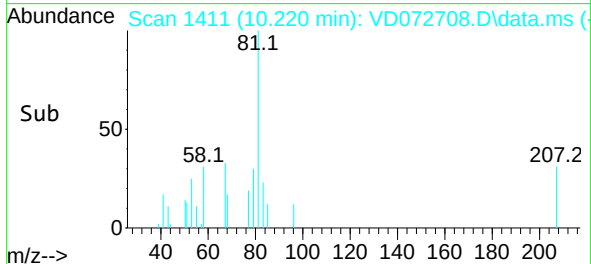
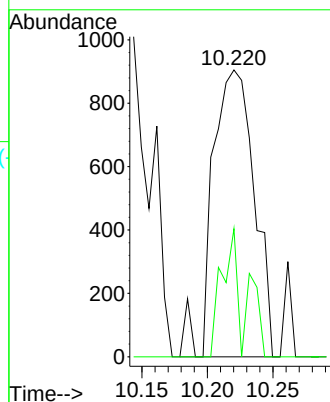
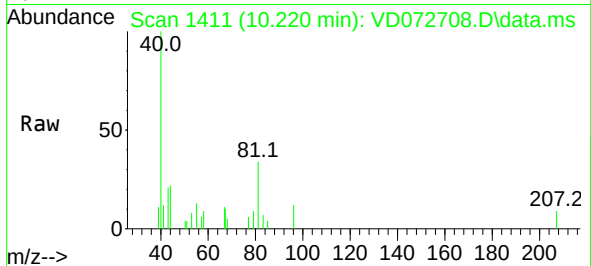




#51
4-Methyl-2-Pentanone
Concen: 2.891 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

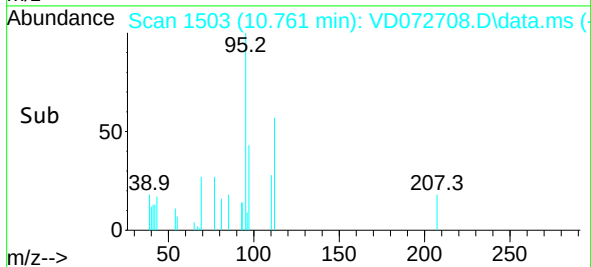
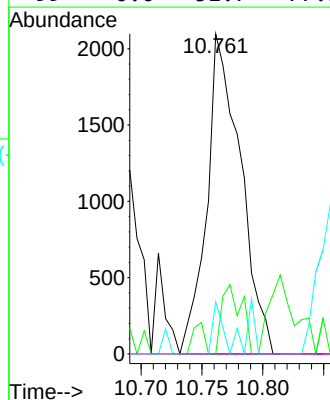
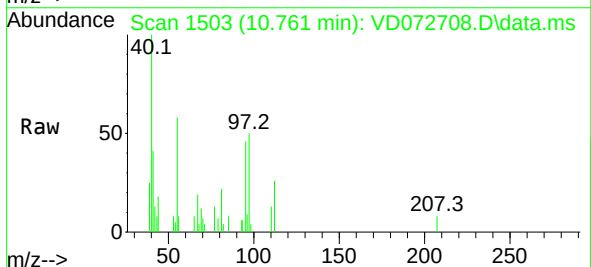
Instrument :
MSVOA_D
ClientSampleId :
RBR-2520253

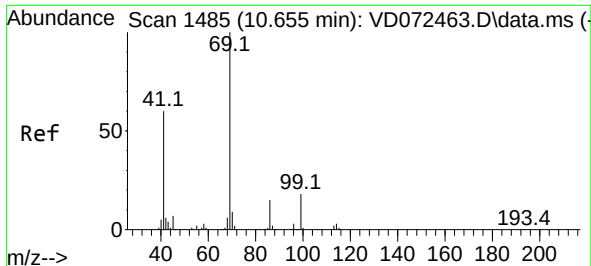
Tgt Ion: 43 Resp: 1996
Ion Ratio Lower Upper
43 100
58 16.3 28.6 43.0#



#55
1,1,2-Trichloroethane
Concen: 4.129 ug/l
RT: 10.761 min Scan# 1503
Delta R.T. -0.035 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

Tgt Ion: 97 Resp: 4039
Ion Ratio Lower Upper
97 100
83 0.0 69.0 103.4#
85 16.3 42.6 63.8#
99 0.0 51.7 77.5#

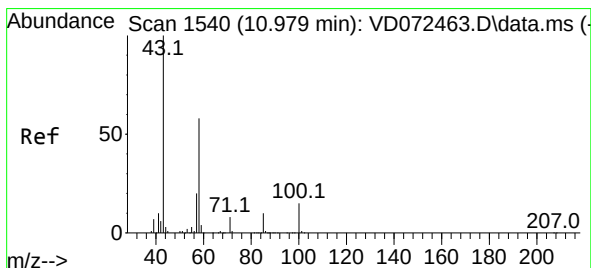
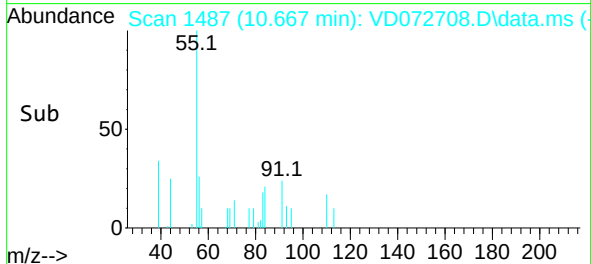
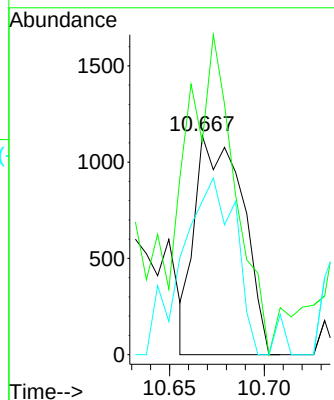
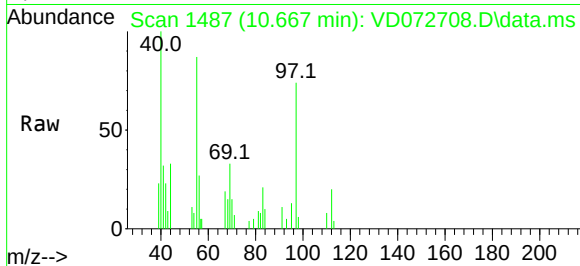




#56
Ethyl methacrylate
Concen: 2.809 ug/l
RT: 10.667 min Scan# 1487
Delta R.T. 0.012 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

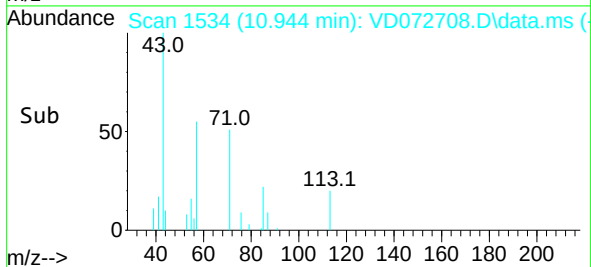
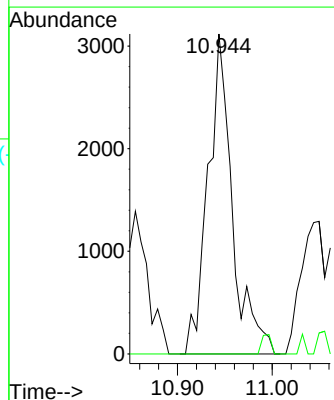
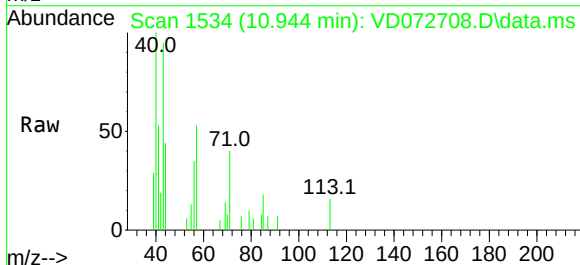
Instrument :
MSVOA_D
ClientSampleId :
RBR-2520253

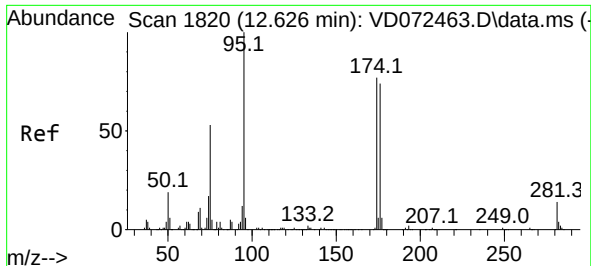
Tgt Ion: 69 Resp: 1994
Ion Ratio Lower Upper
69 100
41 144.0 63.0 94.6#
39 90.5 33.8 50.8#



#59
2-Hexanone
Concen: 11.813 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. -0.035 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

Tgt Ion: 43 Resp: 5546
Ion Ratio Lower Upper
43 100
58 0.0 25.3 75.9#

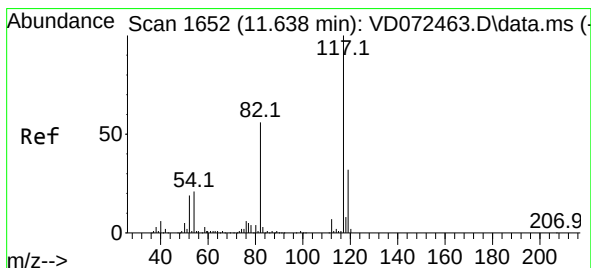
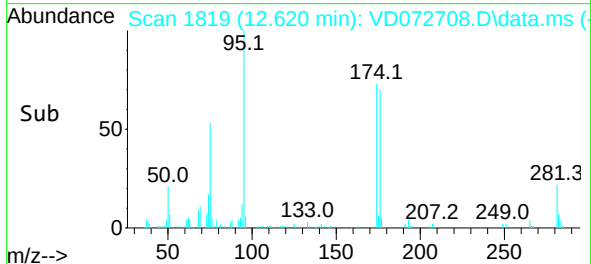
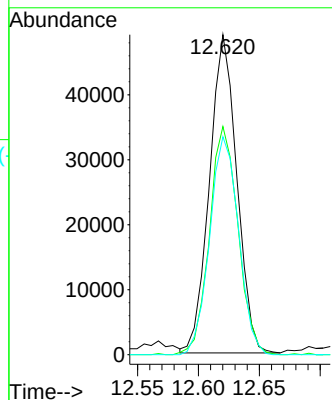
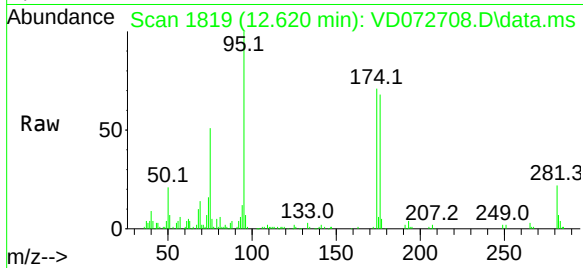




#62
4-Bromofluorobenzene
Concen: 44.561 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

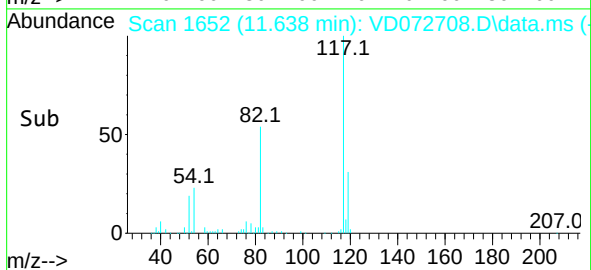
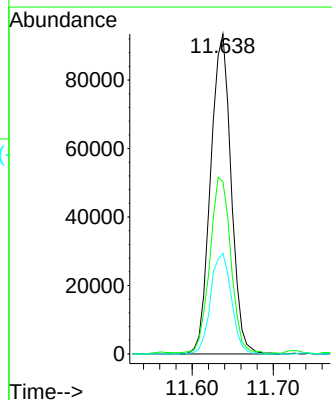
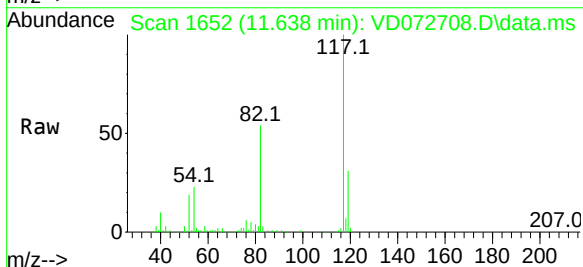
Instrument :
MSVOA_D
ClientSampleId :
RBR-2520253

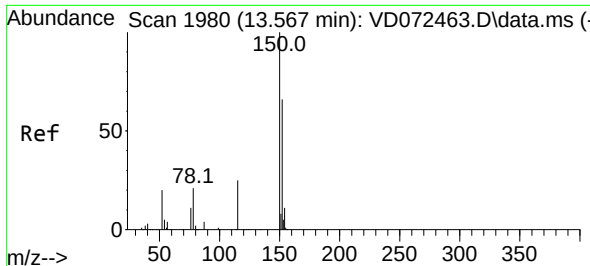
Tgt Ion: 95 Resp: 76583
Ion Ratio Lower Upper
95 100
174 74.6 0.0 152.8
176 72.1 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

Tgt Ion: 117 Resp: 163736
Ion Ratio Lower Upper
117 100
82 53.7 45.3 67.9
119 31.4 26.6 40.0

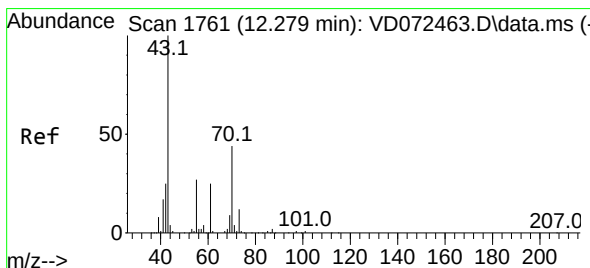
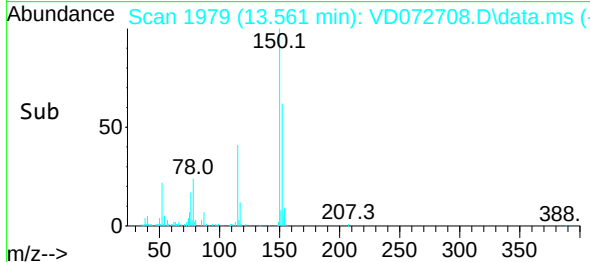
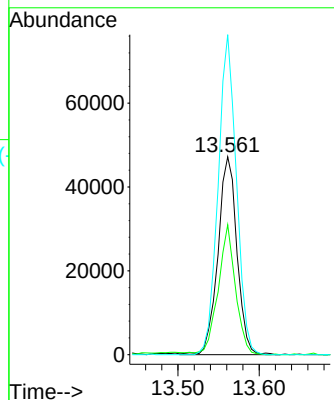
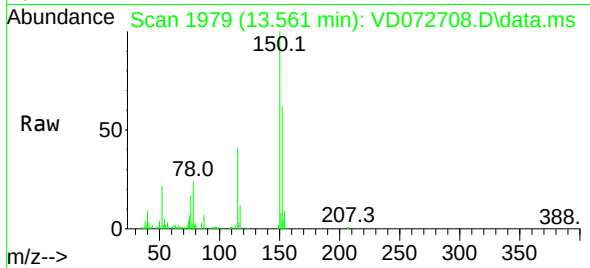




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.561 min Scan# 1980
 Delta R.T. -0.006 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

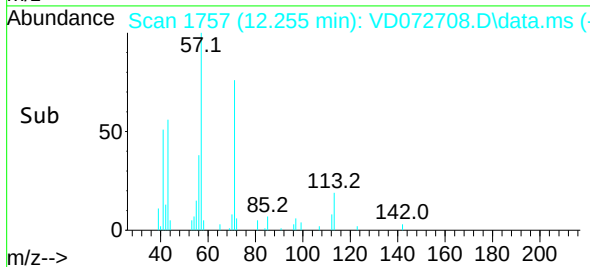
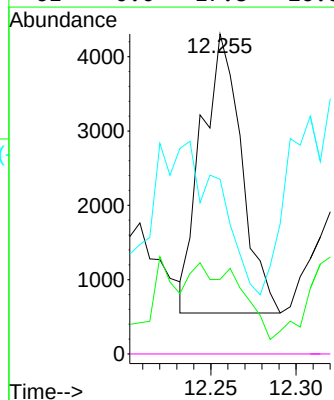
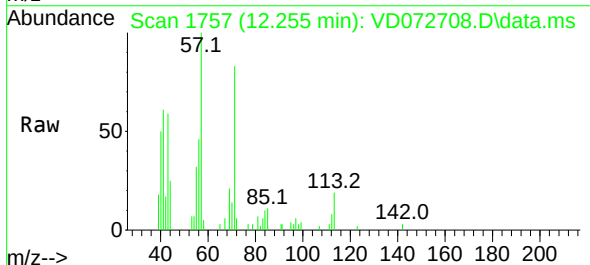
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-2520253

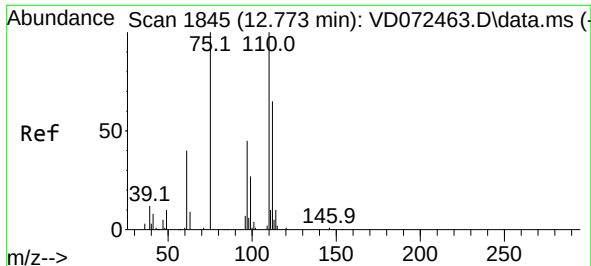
Tgt Ion:152 Resp: 76851
 Ion Ratio Lower Upper
 152 100
 115 59.8 31.3 93.8
 150 155.5 0.0 348.6



#74
 N-ethyl acetate
 Concen: 4.703 ug/l
 RT: 12.255 min Scan# 1757
 Delta R.T. -0.023 min
 Lab File: VD072708.D
 Acq: 25 Apr 2022 15:20

Tgt Ion: 43 Resp: 6125
 Ion Ratio Lower Upper
 43 100
 70 34.7 31.3 46.9
 55 91.3 20.0 30.0#
 61 0.0 17.8 26.8#

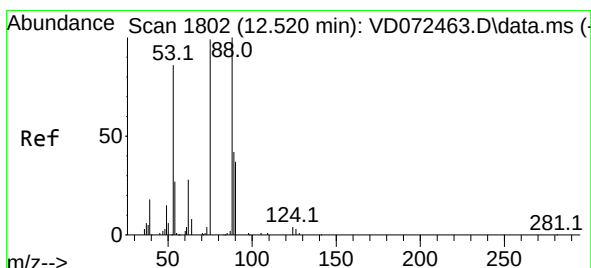
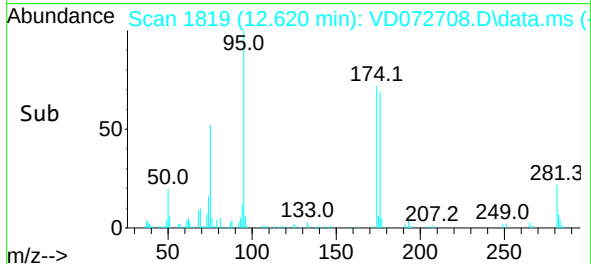
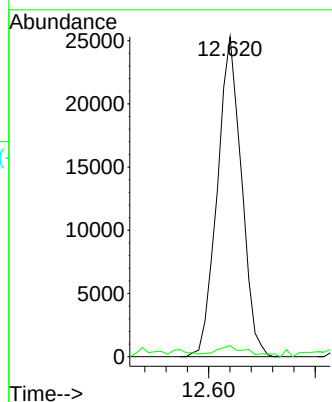
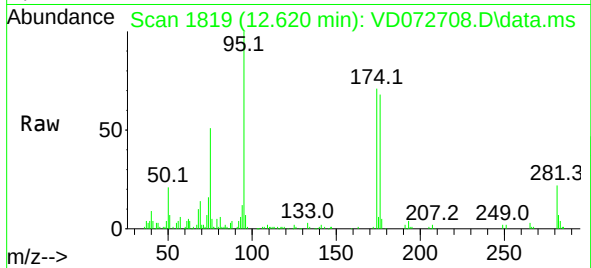




#76
1,2,3-Trichloropropane
Concen: 47.523 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

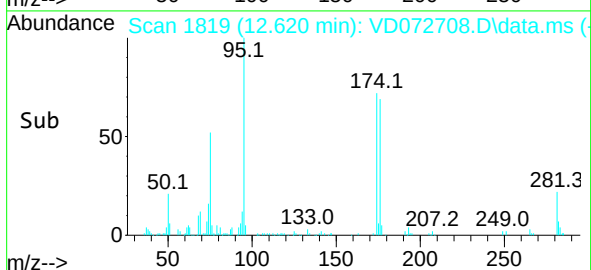
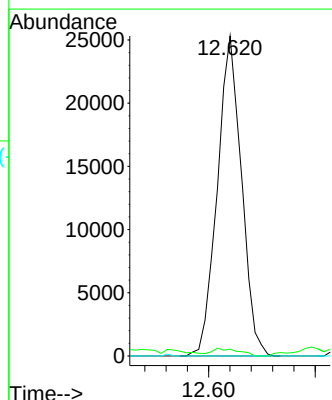
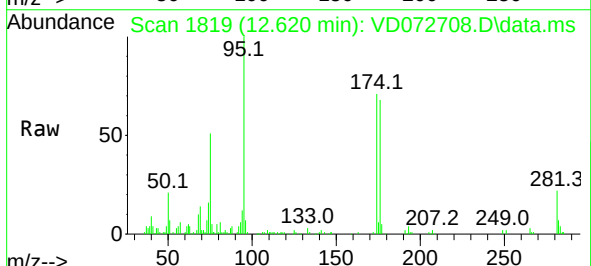
Instrument :
MSVOA_D
ClientSampleId :
RBR-2520253

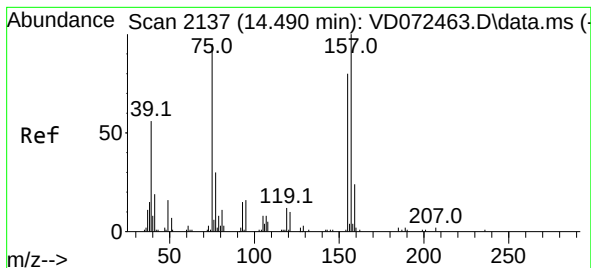
Tgt Ion: 75 Resp: 39833
Ion Ratio Lower Upper
75 100
77 3.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 116.612 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD072708.D
Acq: 25 Apr 2022 15:20

Tgt Ion: 75 Resp: 39833
Ion Ratio Lower Upper
75 100
53 2.6 86.5 129.7#
89 0.0 33.9 50.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.501 ug/l

RT: 14.373 min Scan# 21

Delta R.T. -0.117 min

Lab File: VD072708.D

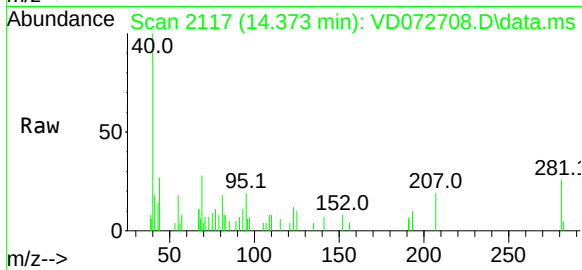
Acq: 25 Apr 2022 15:20

Instrument :

MSVOA_D

ClientSampleId :

RBR-2520253



Tgt Ion: 75 Resp: 261

Ion Ratio Lower Upper

75 100

155 26.1 36.8 110.3#

157 0.0 48.4 145.0#

