

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111920\
 Data File : VN064772.D
 Acq On : 20 Nov 2020 9:55
 Operator : JC/MD
 Sample : L4778-08 100X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1841

Quant Time: Nov 20 13:47:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	326788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	648231	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	696071	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	320391	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	274508	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
35) Dibromofluoromethane	7.55	113	211265	57.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.52%	
50) Toluene-d8	10.06	98	834864	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
62) 4-Bromofluorobenzene	12.38	95	356276	56.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.68%	

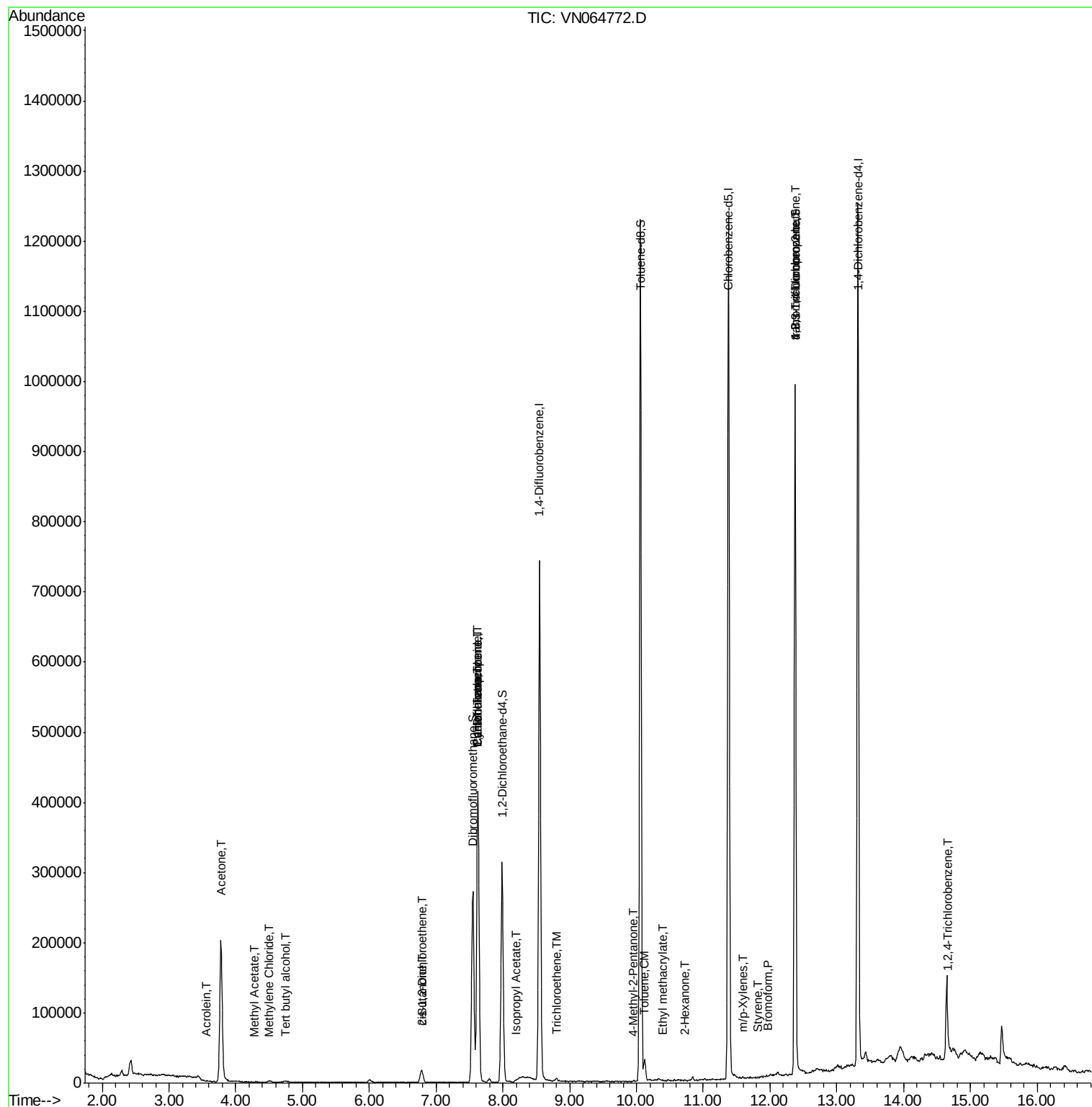
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	720	1.291	ug/l	97
13) Acrolein	3.56	56	31	0.237	ug/l #	81
16) Acetone	3.78	43	341635	245.710	ug/l	92
18) Methyl Acetate	4.28	43	828	1.525	ug/l #	54
20) Methylene Chloride	4.49	84	1273	0.299	ug/l #	83
25) 2-Butanone	6.79	43	2178	0.991	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	874	0.202	ug/l	47
31) Cyclohexane	7.62	56	7825	1.259	ug/l #	17
36) 1,1-Dichloropropene	7.62	75	27701	4.154	ug/l #	52
38) Carbon Tetrachloride	7.63	117	35029	4.942	ug/l #	16
43) Isopropyl Acetate	8.20	43	4661	0.431	ug/l #	64
44) Trichloroethene	8.81	130	1460	0.274	ug/l	98
51) 4-Methyl-2-Pentanone	9.96	43	986	6.277	ug/l #	39
52) Toluene	10.12	92	11862	1.036	ug/l	96
56) Ethyl methacrylate	10.40	69	346	2.719	ug/l #	35
59) 2-Hexanone	10.71	43	261	8.492	ug/l #	28
68) m/p-Xylenes	11.58	106	278	4.087	ug/l #	1
70) Styrene	11.81	104	148	2.545	ug/l #	24
71) Bromoform	11.98	173	70	2.462	ug/l #	29
76) 1,2,3-Trichloropropane	12.37	75	181216	26.251	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	181216	67.108	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.67	180	64	1.343	ug/l #	1

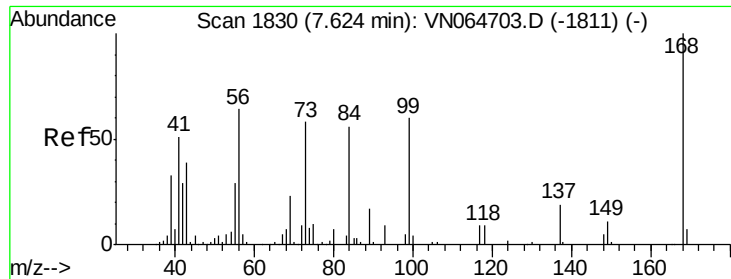
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampled :

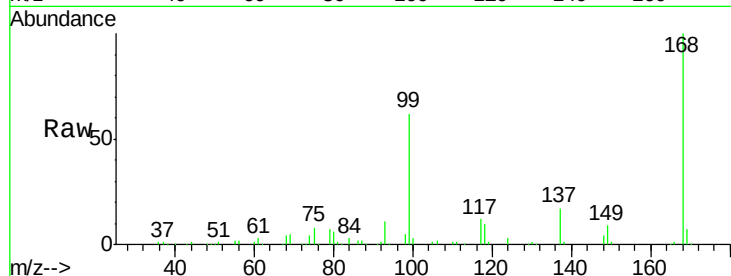
1841

Tgt Ion:168 Resp: 326788

Ion Ratio Lower Upper

168 100

99 61.8 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

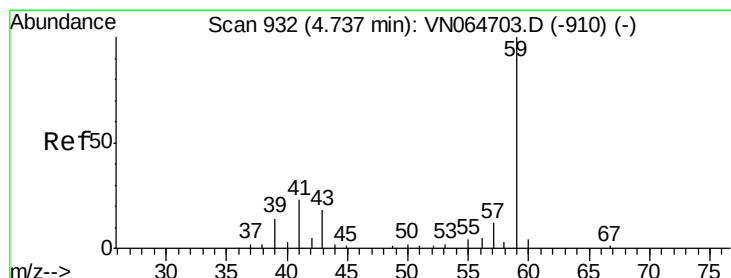
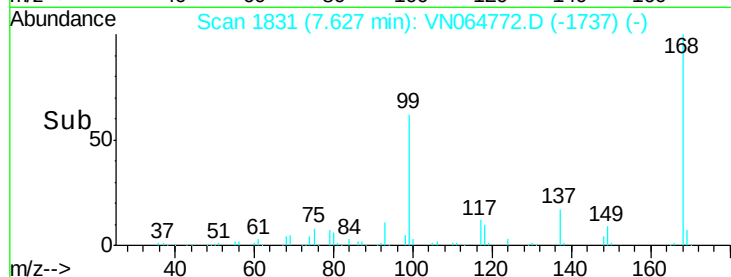
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.291 ug/l

RT: 4.74 min Scan# 932

Delta R.T. -0.00 min

Lab File: VN064772.D

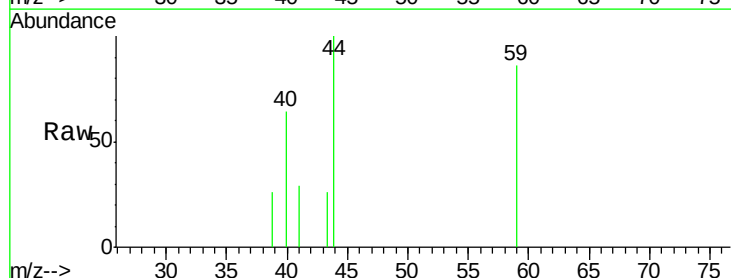
Acq: 20 Nov 2020 9:55

Tgt Ion: 59 Resp: 720

Ion Ratio Lower Upper

59 100

57 10.1 9.1 13.7



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.74

800

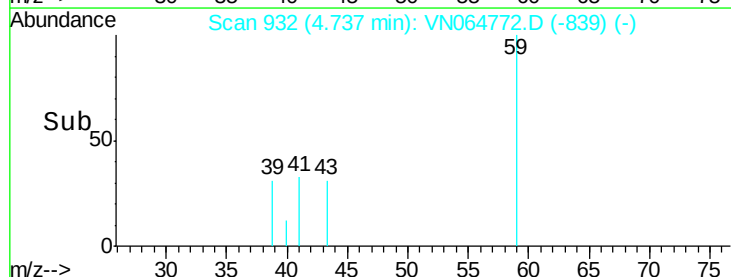
600

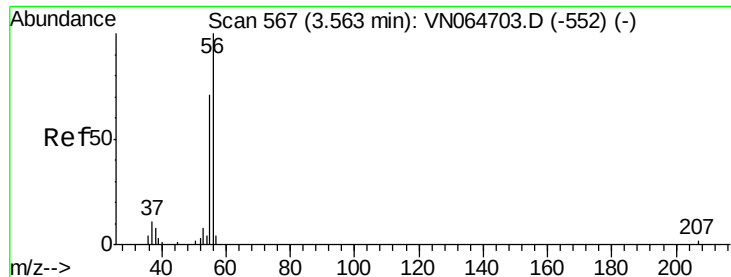
400

200

0

Time-->





#13

Acrolein

Concen: 0.237 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampled :

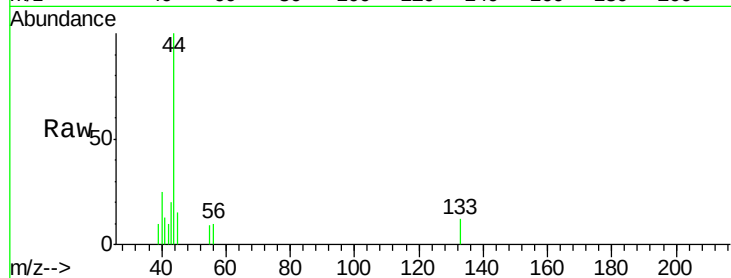
1841

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

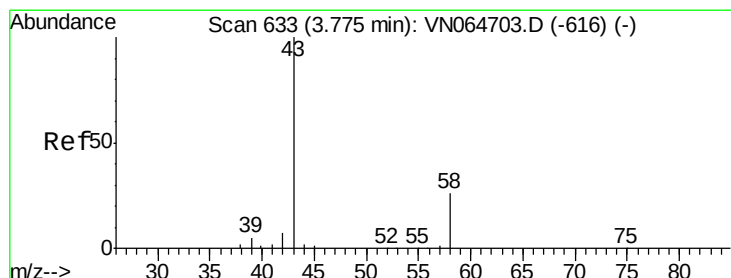
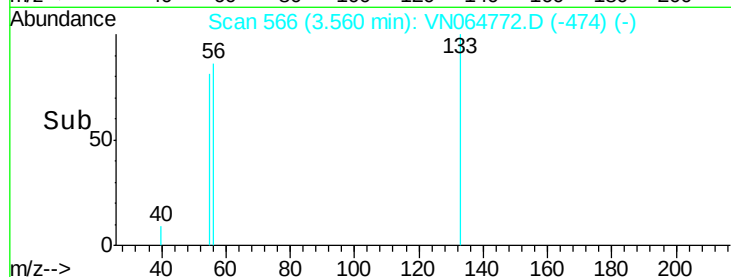
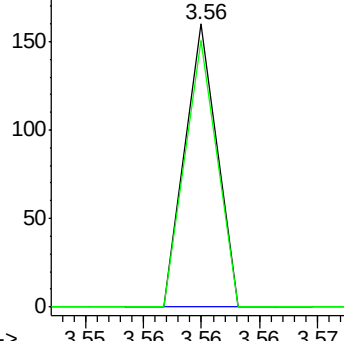
56 100

55 93.5 61.8 92.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 245.710 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064772.D

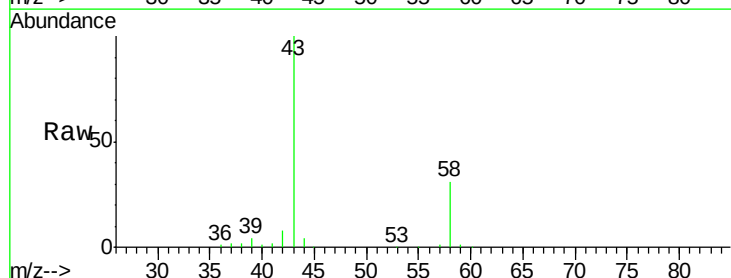
Acq: 20 Nov 2020 9:55

Tgt Ion: 43 Resp: 341635

Ion Ratio Lower Upper

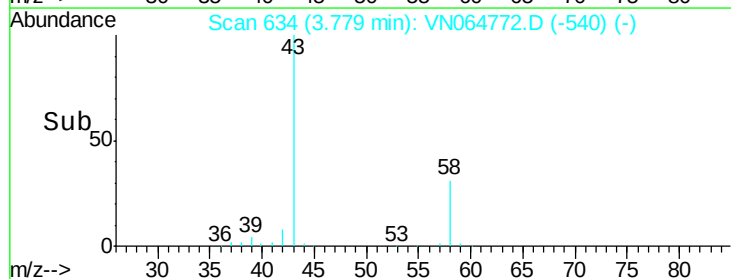
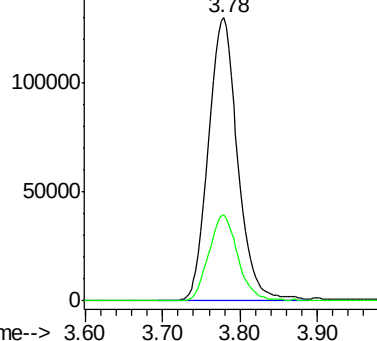
43 100

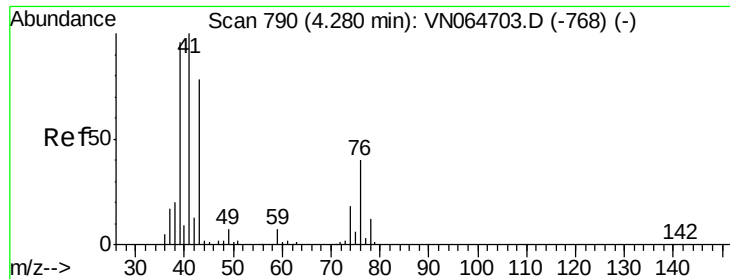
58 30.6 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

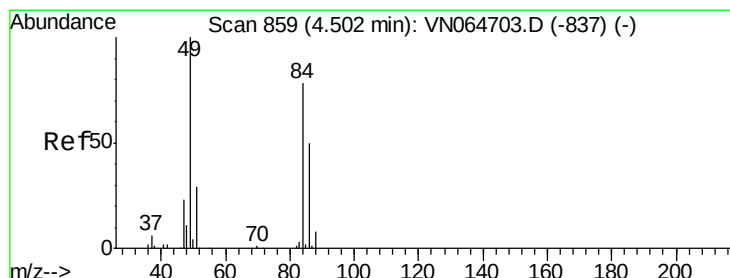
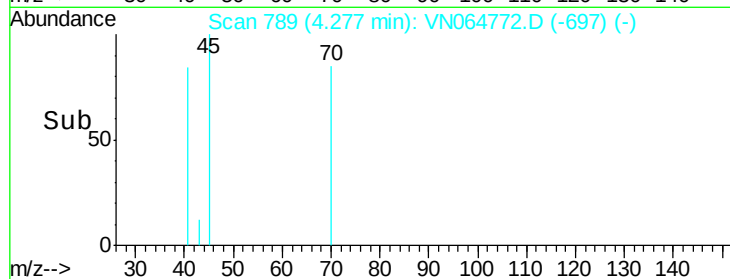
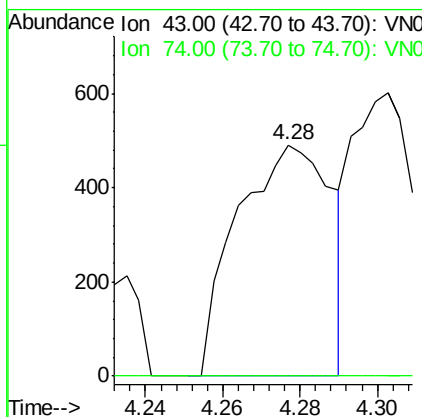
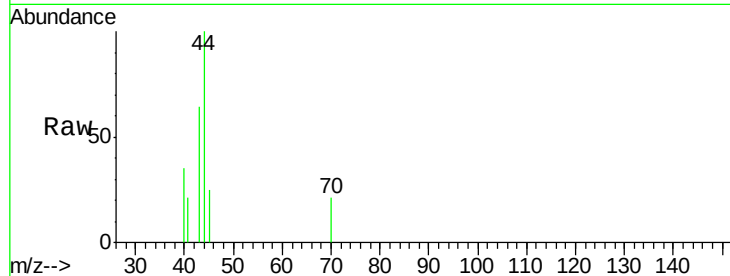




#18
Methyl Acetate
Concen: 1.525 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

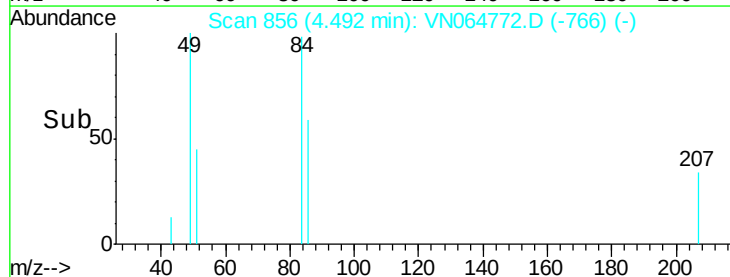
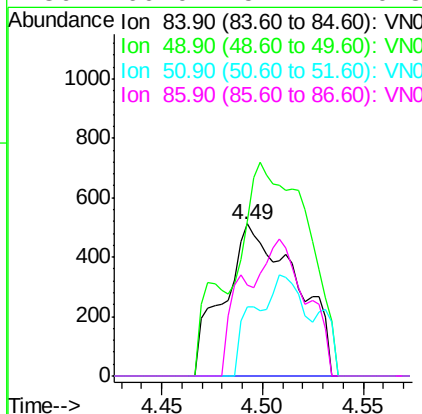
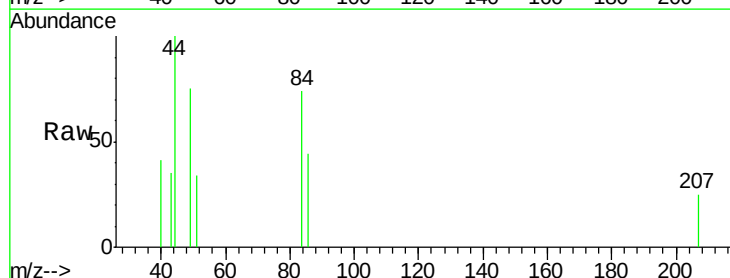
Instrument :
MSVOA_N
ClientSampled :
1841

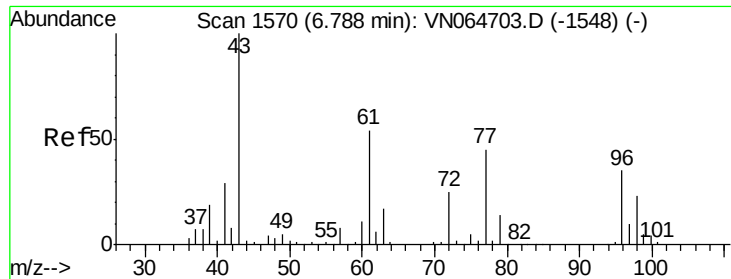
Tgt Ion: 43 Resp: 828
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#20
Methylene Chloride
Concen: 0.299 ug/l
RT: 4.49 min Scan# 856
Delta R.T. -0.01 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Tgt Ion: 84 Resp: 1273
Ion Ratio Lower Upper
84 100
49 101.6 102.4 153.6#
51 45.3 29.4 44.2#
86 60.0 51.2 76.8

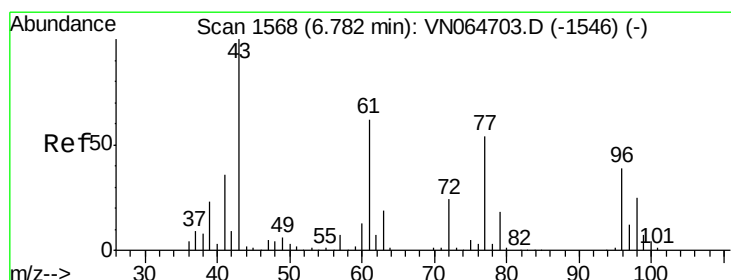
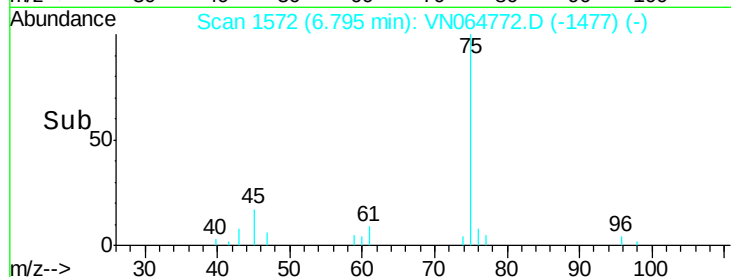
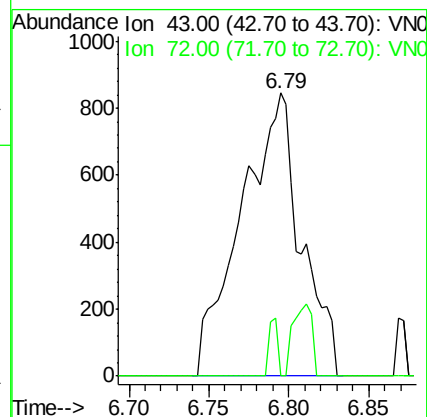
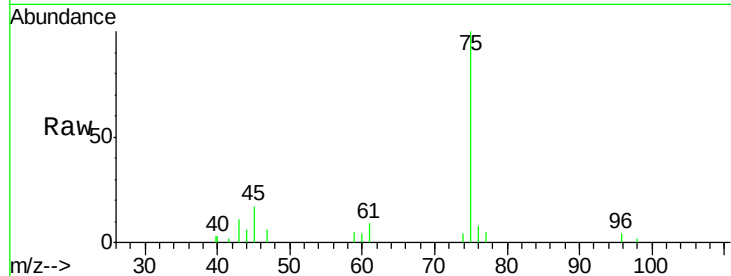




#25
2-Butanone
Concen: 0.991 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

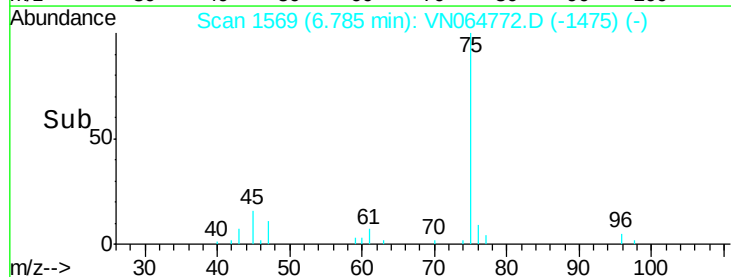
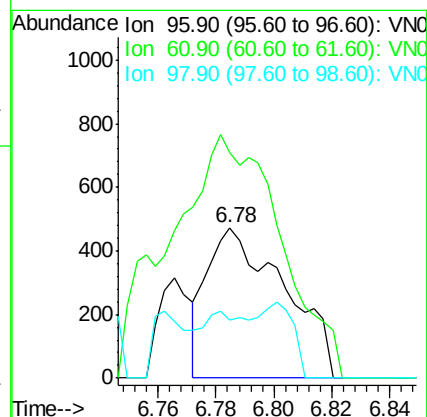
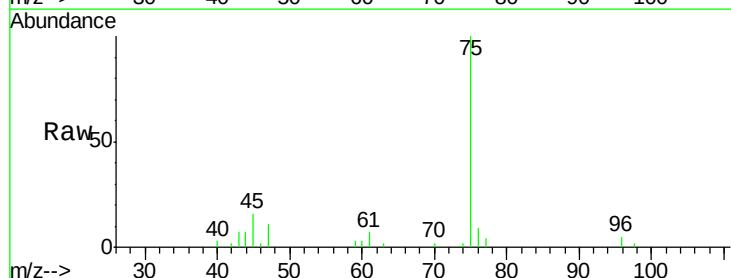
Instrument :
MSVOA_N
ClientSampled :
1841

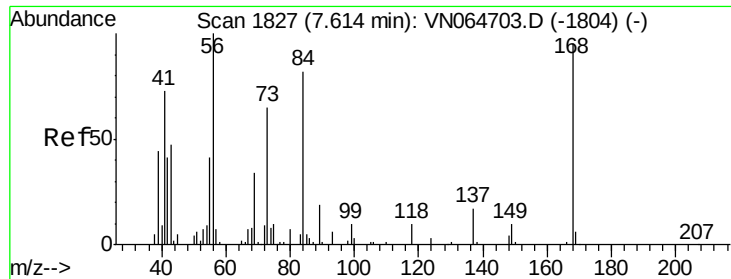
Tgt Ion: 43 Resp: 2178
Ion Ratio Lower Upper
43 100
72 0.0 19.7 29.5#



#27
cis-1,2-Dichloroethene
Concen: 0.202 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Tgt Ion: 96 Resp: 874
Ion Ratio Lower Upper
96 100
61 233.1 0.0 322.6
98 24.8 0.0 128.6

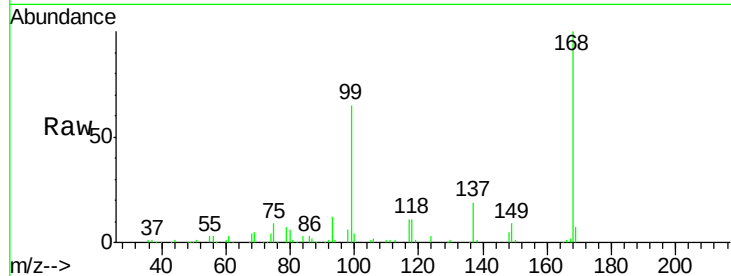




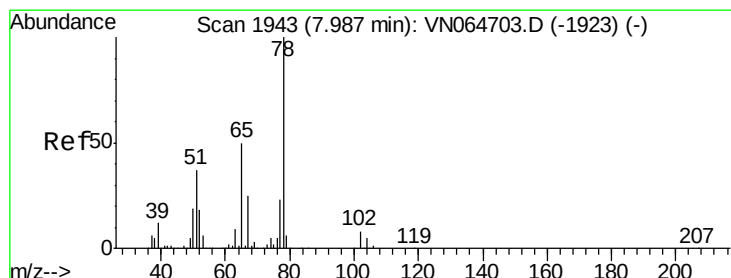
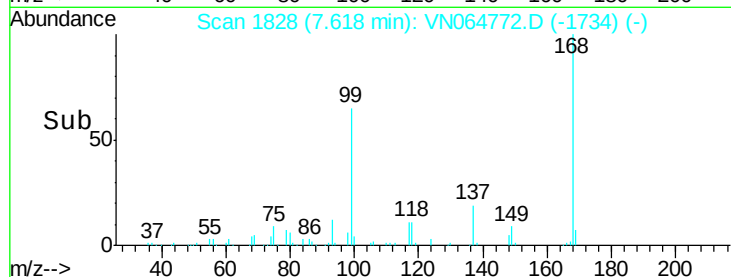
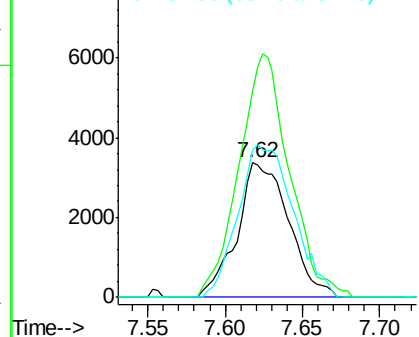
#31
Cyclohexane
Concen: 1.259 ug/l
RT: 7.62 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Instrument :
MSVOA_N
ClientSampled :
1841

Tgt Ion: 56 Resp: 7825
Ion Ratio Lower Upper
56 100
69 153.8 27.2 40.8#
84 109.5 65.9 98.9#

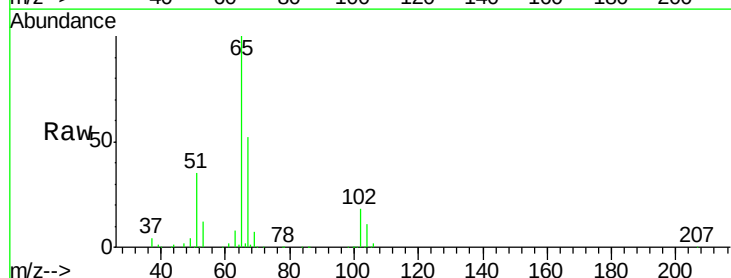


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

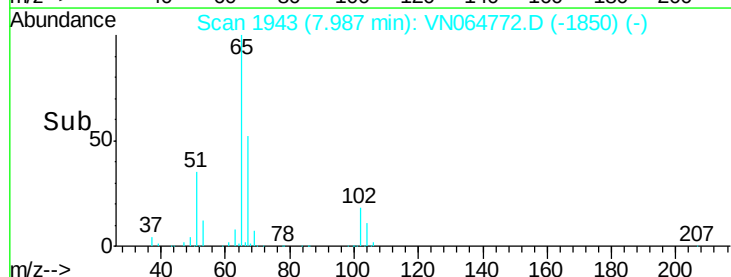
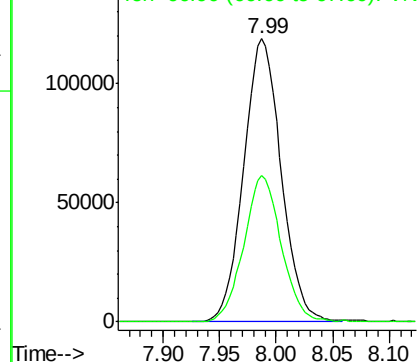


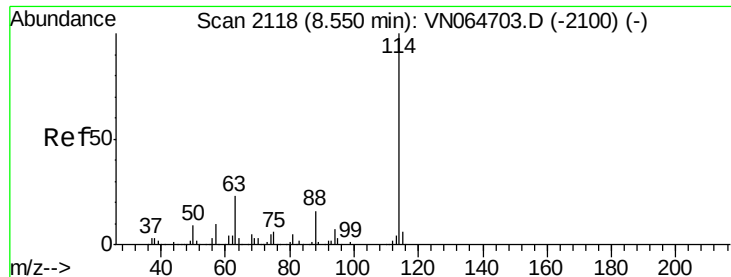
#33
1,2-Dichloroethane-d4
Concen: 47.751 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Tgt Ion: 65 Resp: 274508
Ion Ratio Lower Upper
65 100
67 51.5 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

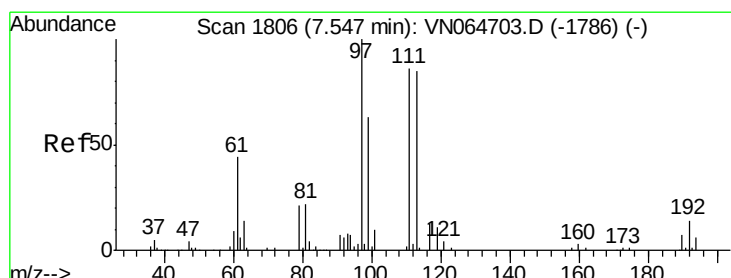
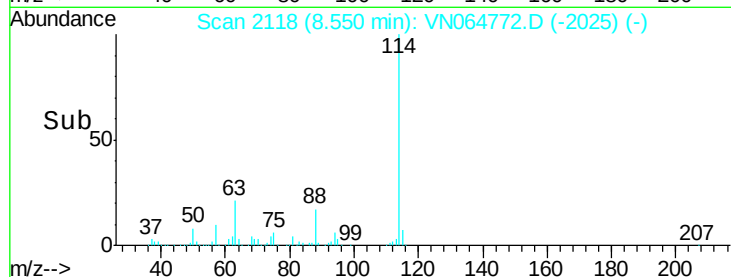
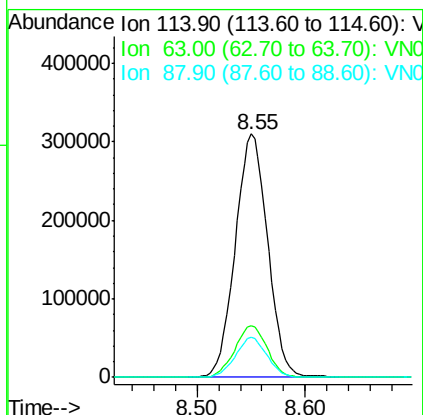
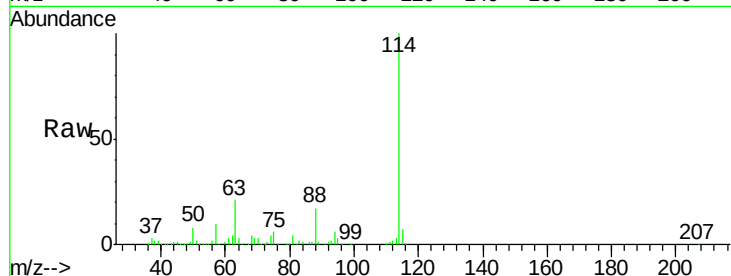




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064772.D
 Acq: 20 Nov 2020 9:55

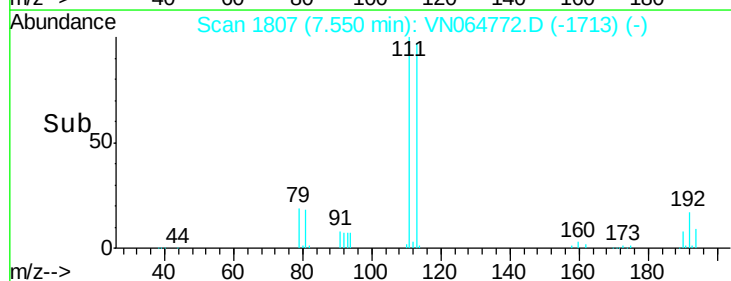
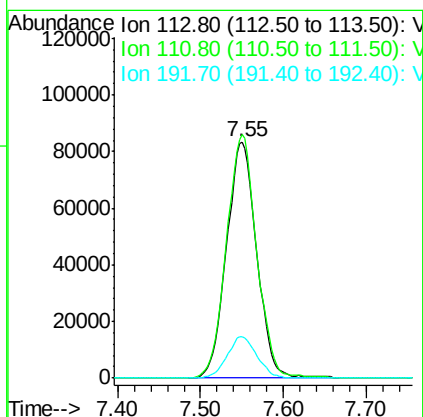
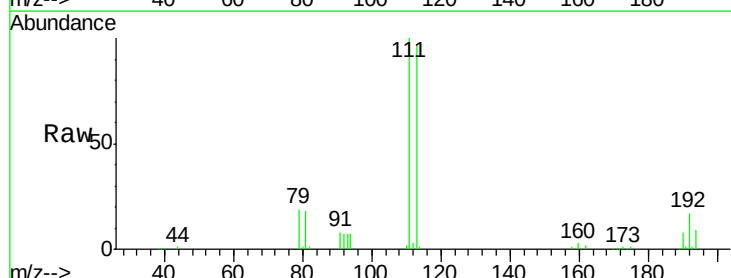
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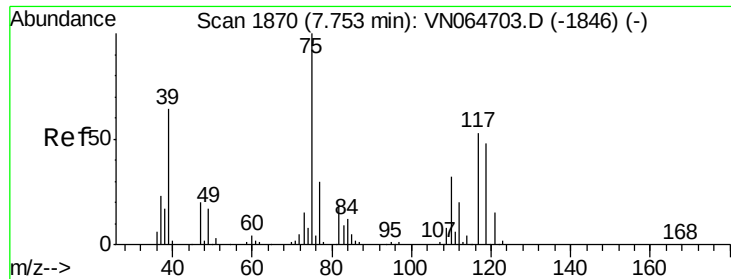
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	46.0
88	16.7	0.0	31.2



#35
 Dibromofluoromethane
 Concen: 57.260 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064772.D
 Acq: 20 Nov 2020 9:55

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	17.3	12.7	19.1





#36

1,1-Dichloropropene

Concen: 4.154 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampleId :

1841

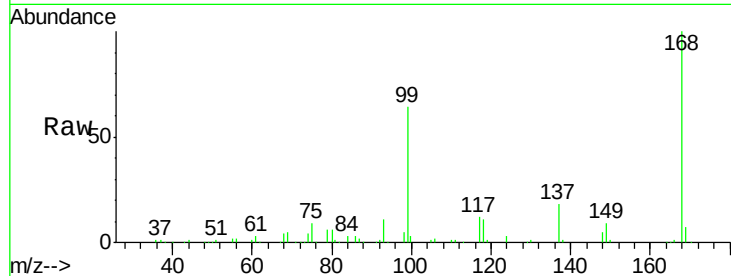
Tgt Ion: 75 Resp: 27701

Ion Ratio Lower Upper

75 100

110 9.2 16.2 48.6#

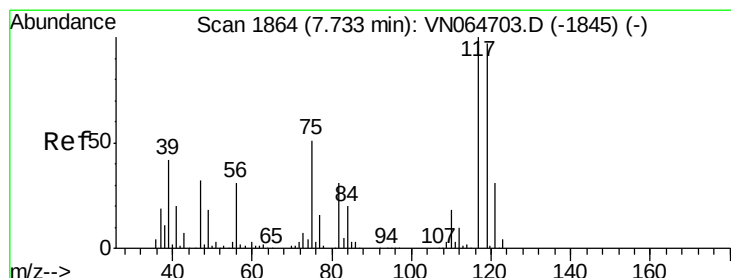
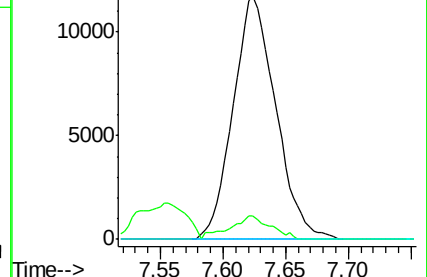
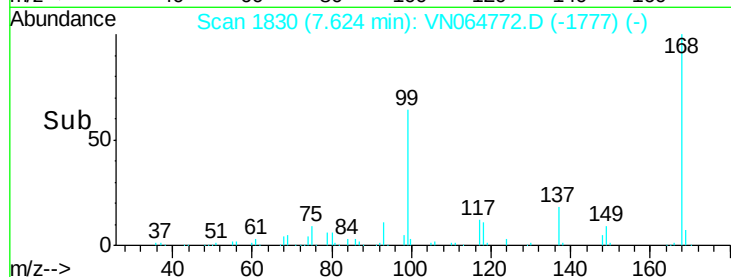
77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VN064772.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064772.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064772.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 4.942 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

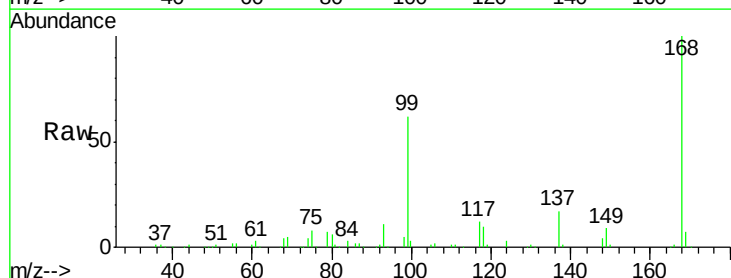
Tgt Ion: 117 Resp: 35029

Ion Ratio Lower Upper

117 100

119 5.4 77.8 116.6#

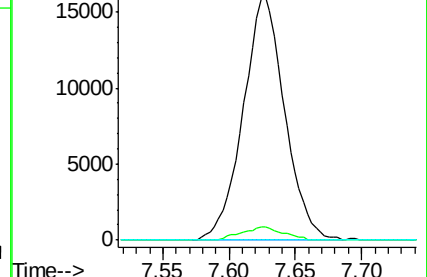
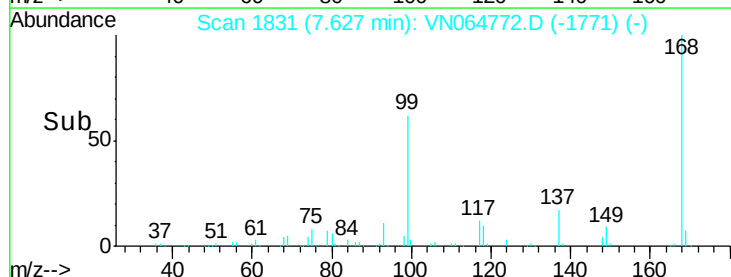
121 0.0 24.9 37.3#

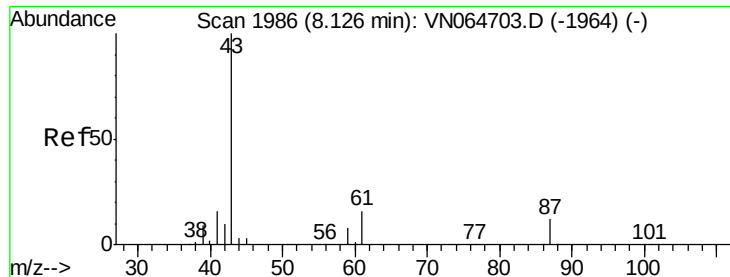


Abundance Ion 116.80 (116.50 to 117.50): VN064772.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN064772.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN064772.D (-1771) (-)





#43

Isopropyl Acetate

Concen: 0.431 ug/l

RT: 8.20 min Scan# 2009

Delta R.T. 0.07 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampled :

1841

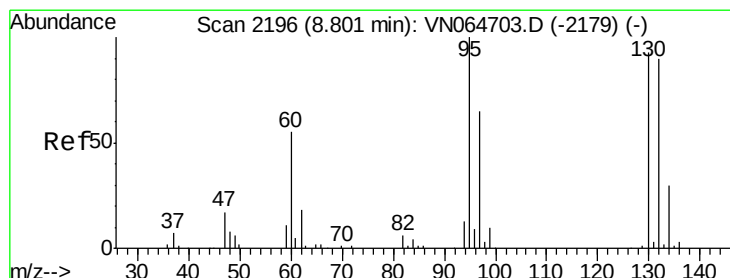
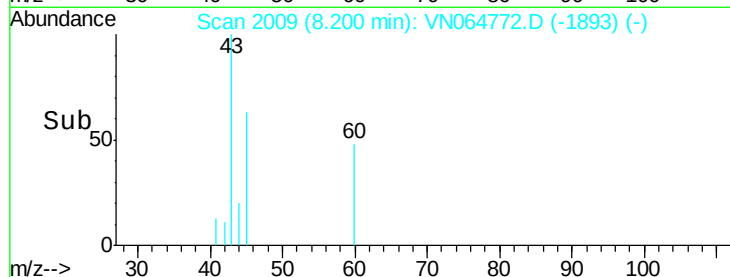
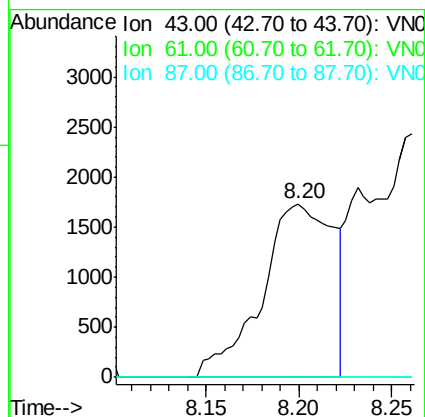
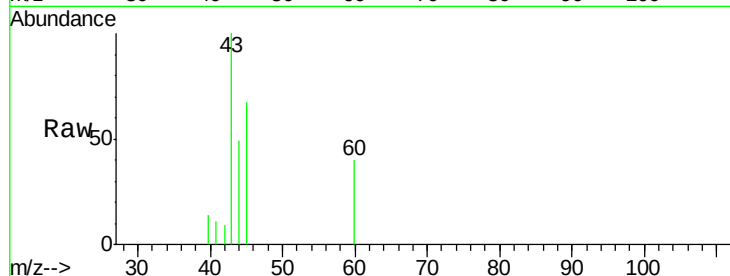
Tgt Ion: 43 Resp: 4661

Ion Ratio Lower Upper

43 100

61 0.0 14.1 21.1#

87 0.0 9.1 13.7#



#44

Trichloroethene

Concen: 0.274 ug/l

RT: 8.81 min Scan# 2198

Delta R.T. 0.01 min

Lab File: VN064772.D

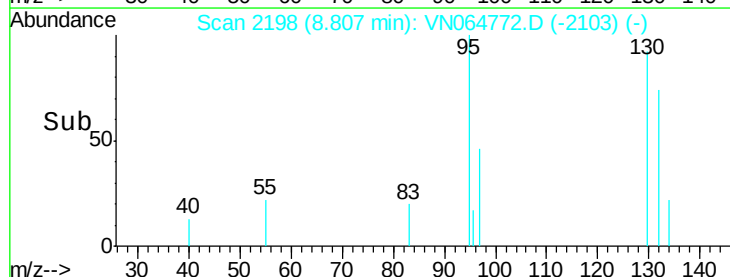
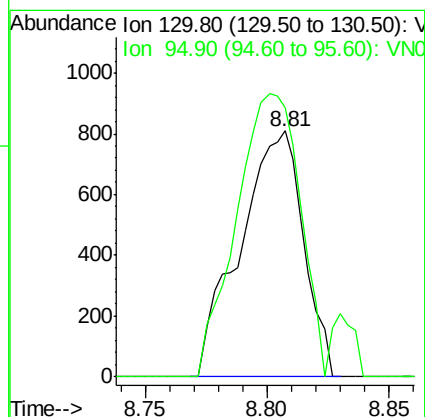
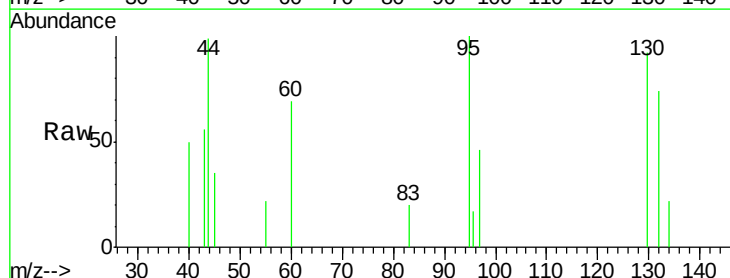
Acq: 20 Nov 2020 9:55

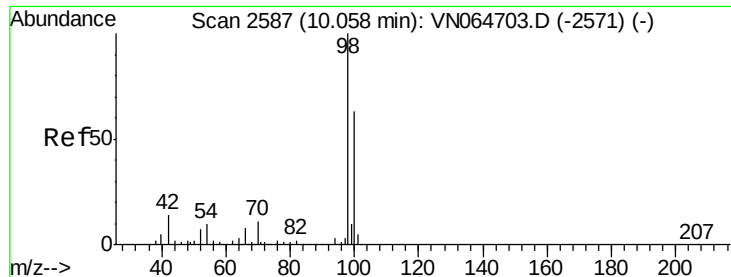
Tgt Ion: 130 Resp: 1460

Ion Ratio Lower Upper

130 100

95 109.3 0.0 214.2





#50

Toluene-d8

Concen: 49.788 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampled :

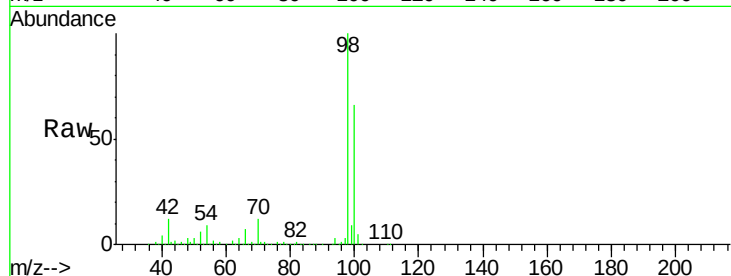
1841

Tgt Ion: 98 Resp: 834864

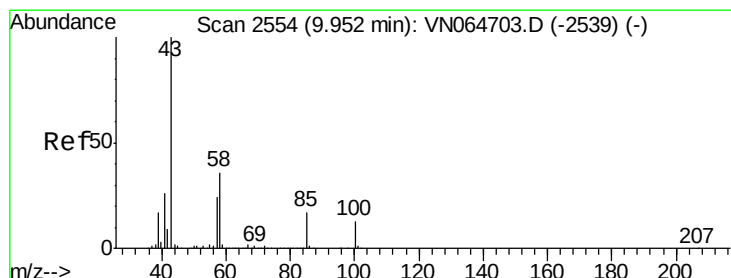
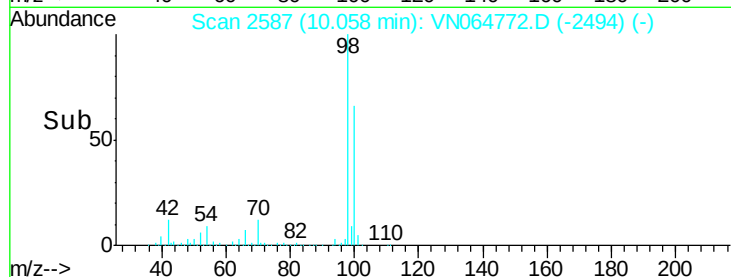
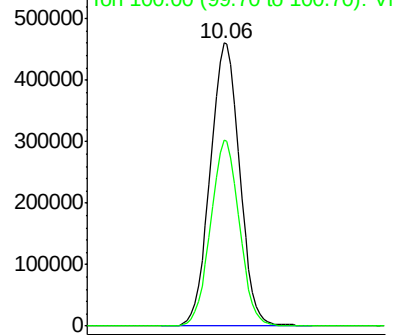
Ion Ratio Lower Upper

98 100

100 64.3 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN064703.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 6.277 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064772.D

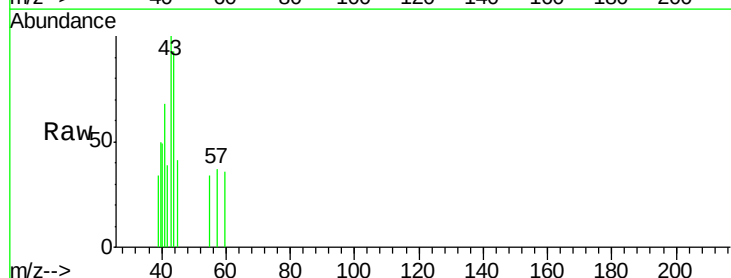
Acq: 20 Nov 2020 9:55

Tgt Ion: 43 Resp: 986

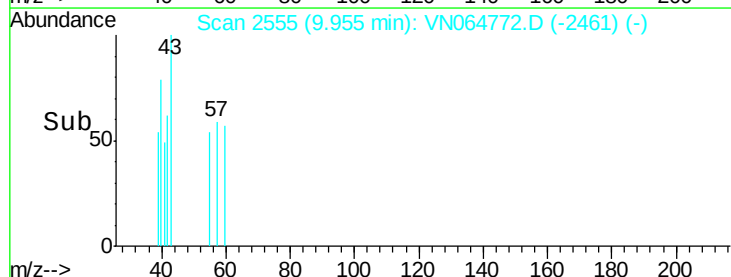
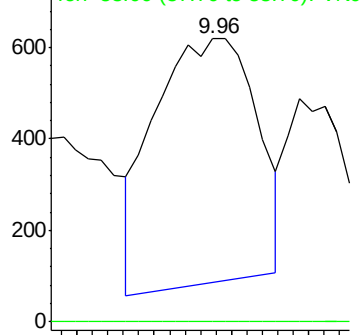
Ion Ratio Lower Upper

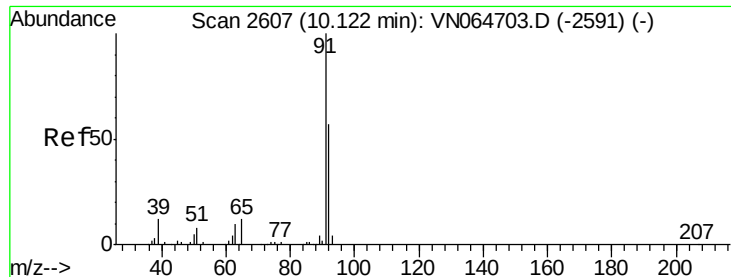
43 100

58 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN064703.D (-2539) (-)





#52

Toluene

Concen: 1.036 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampleId :

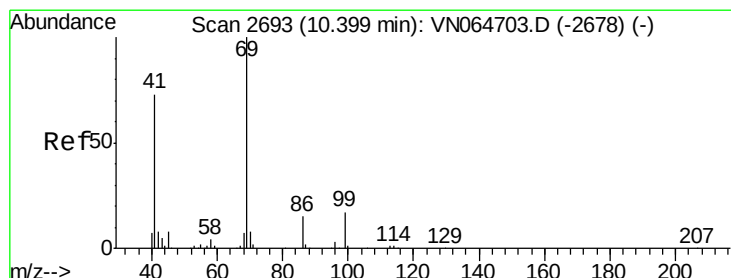
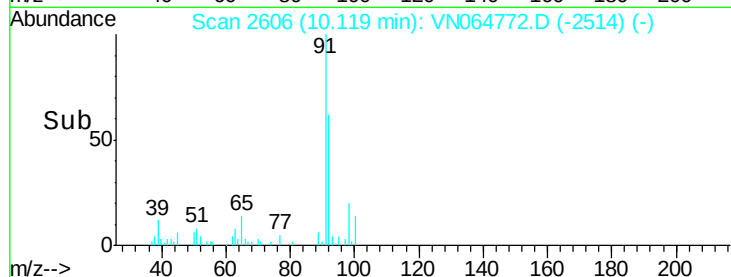
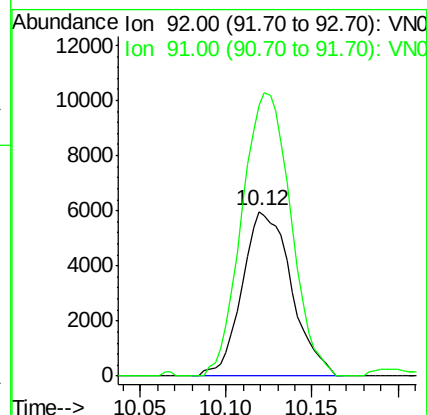
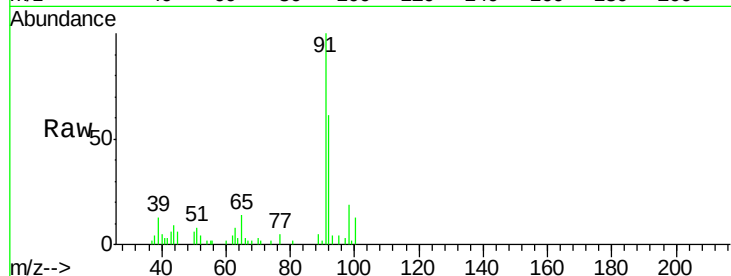
1841

Tgt Ion: 92 Resp: 11862

Ion Ratio Lower Upper

92 100

91 170.9 141.2 211.8



#56

Ethyl methacrylate

Concen: 2.719 ug/l

RT: 10.40 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

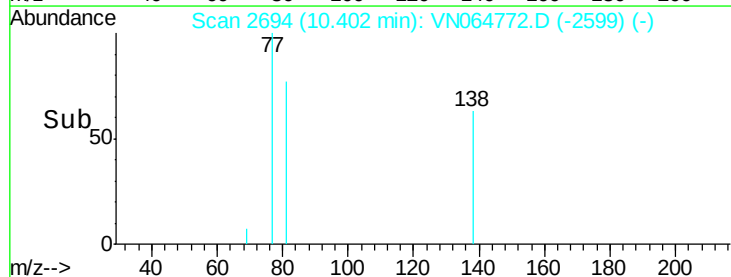
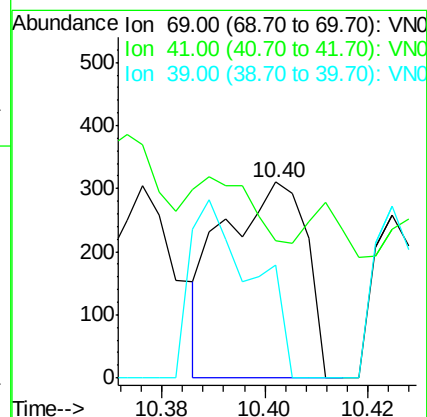
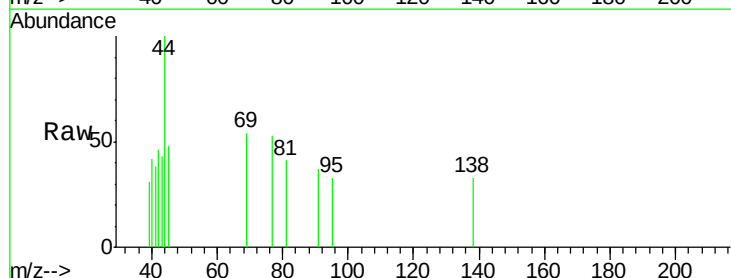
Tgt Ion: 69 Resp: 346

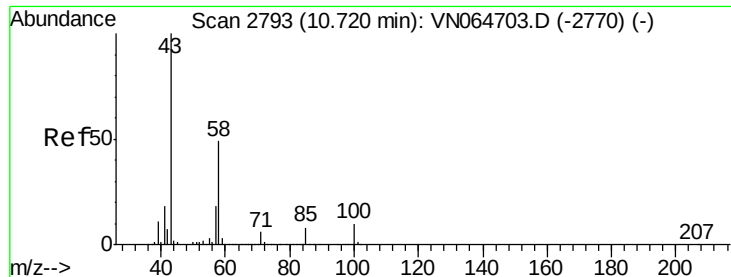
Ion Ratio Lower Upper

69 100

41 0.0 59.0 88.4#

39 68.5 38.4 57.6#

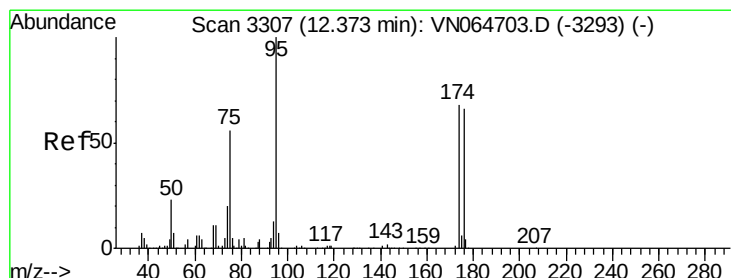
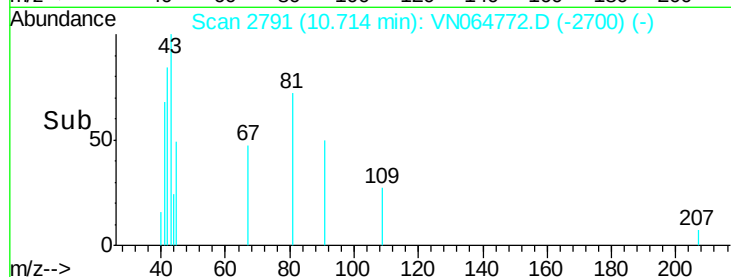
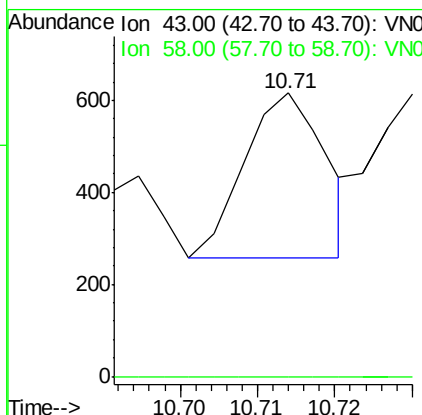
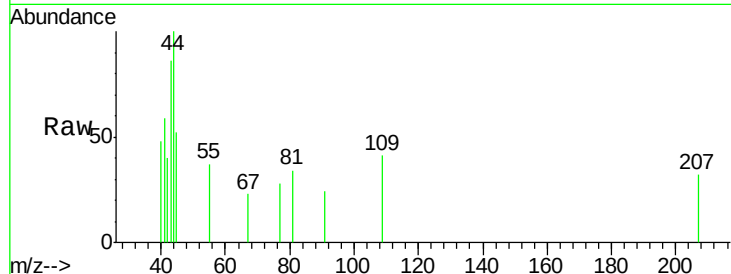




#59
2-Hexanone
Concen: 8.492 ug/l
RT: 10.71 min Scan# 2791
Delta R.T. -0.01 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

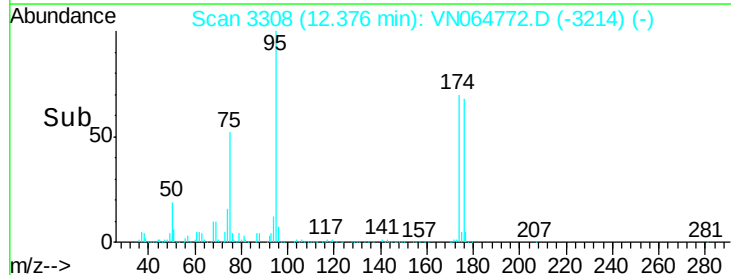
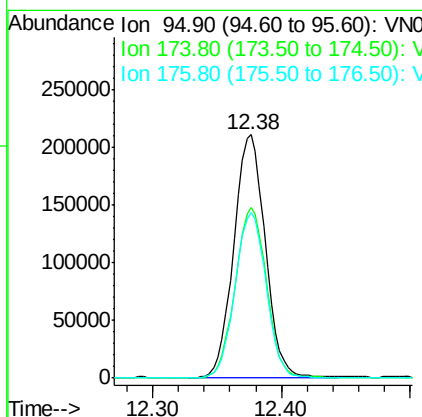
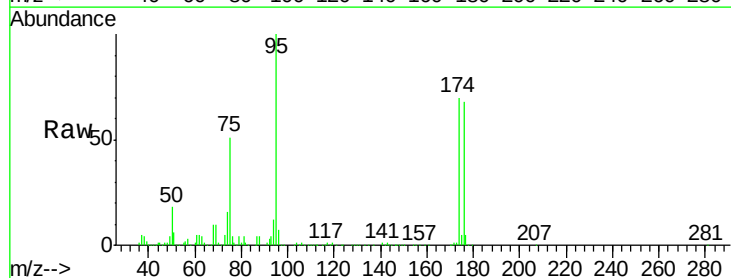
Instrument :
MSVOA_N
ClientSampleId :
1841

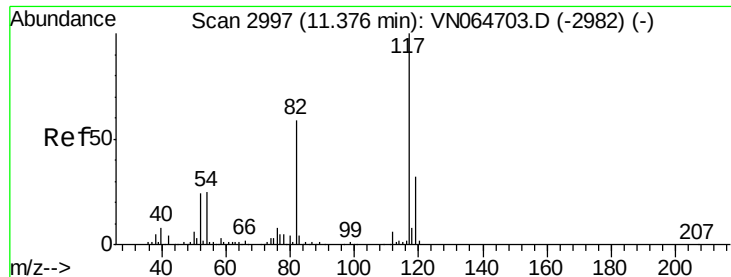
Tgt Ion: 43 Resp: 261
Ion Ratio Lower Upper
43 100
58 0.0 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 56.843 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Tgt Ion: 95 Resp: 356276
Ion Ratio Lower Upper
95 100
174 70.6 0.0 136.8
176 67.5 0.0 134.2

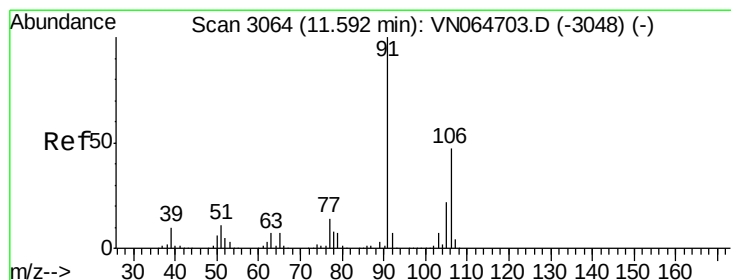
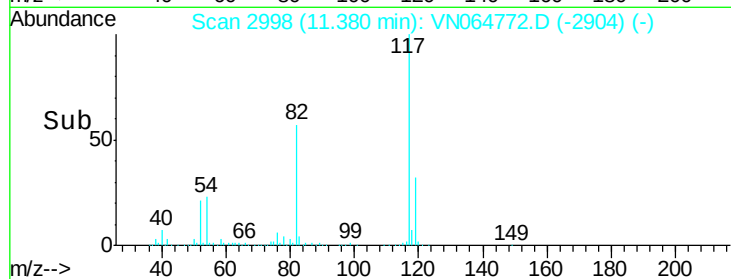
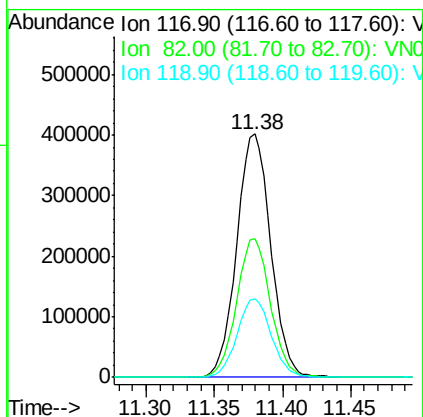
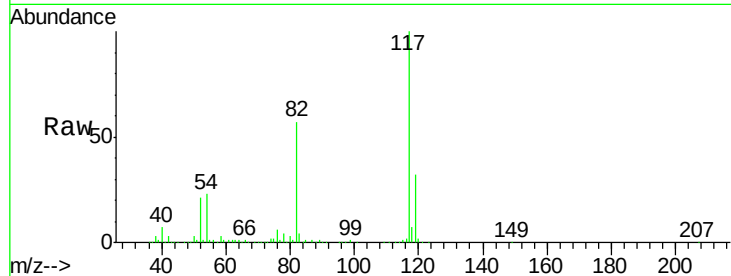




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

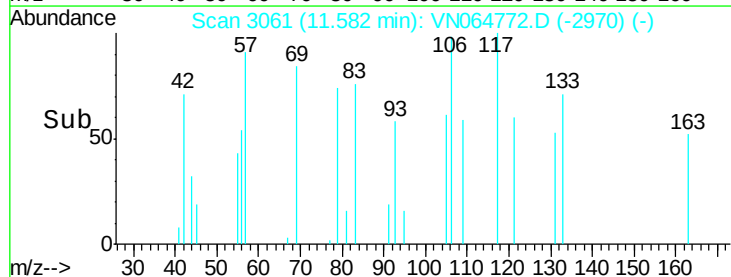
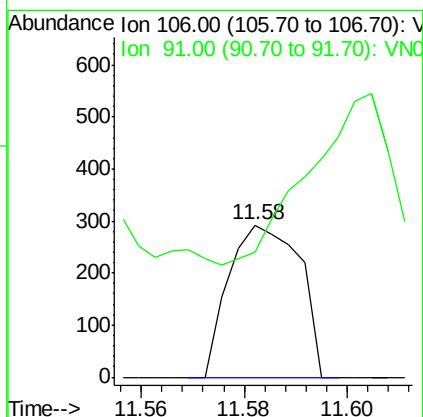
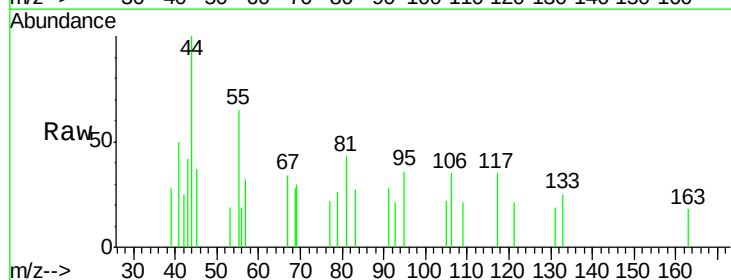
Instrument :
MSVOA_N
ClientSampled :
1841

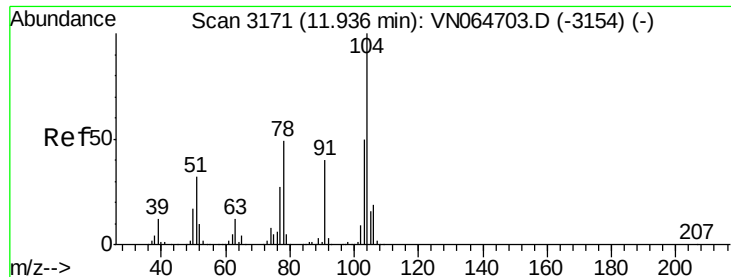
Tgt Ion:117 Resp: 696071
Ion Ratio Lower Upper
117 100
82 57.0 47.0 70.6
119 32.2 25.4 38.2



#68
m/p-Xylenes
Concen: 4.087 ug/l
RT: 11.58 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Tgt Ion:106 Resp: 278
Ion Ratio Lower Upper
106 100
91 0.0 171.9 257.9#





#70

Styrene

Concen: 2.545 ug/l

RT: 11.81 min Scan# 3131

Delta R.T. -0.13 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampled :

1841

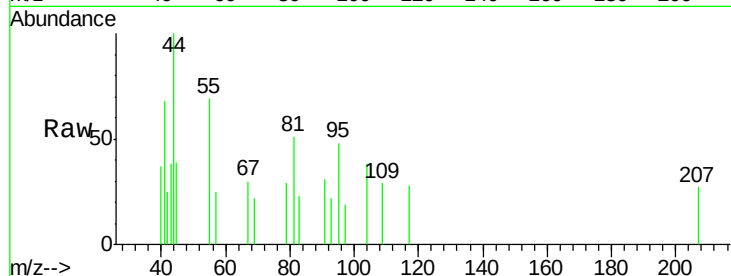
Tgt Ion:104 Resp: 148

Ion Ratio Lower Upper

104 100

78 0.0 44.1 66.1#

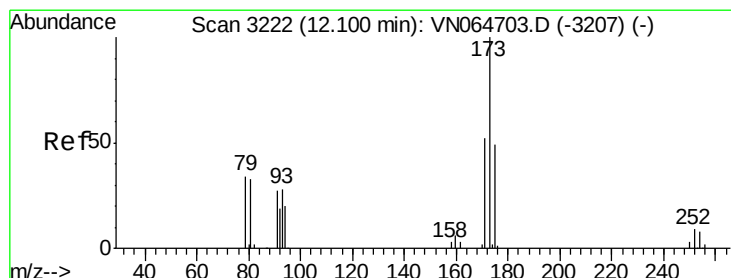
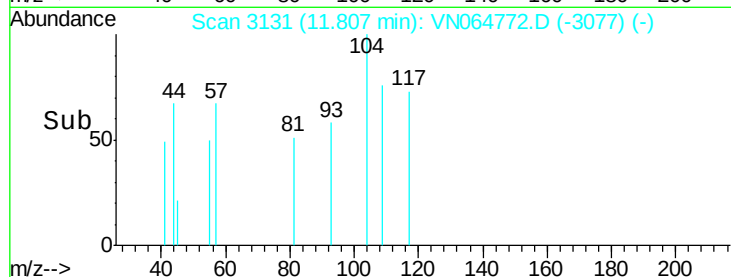
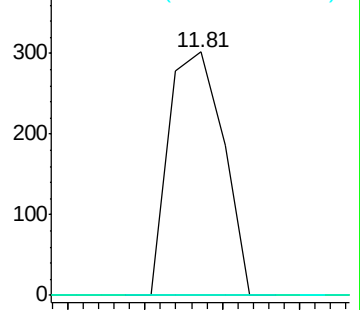
103 0.0 43.7 65.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.462 ug/l

RT: 11.98 min Scan# 3184

Delta R.T. -0.12 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

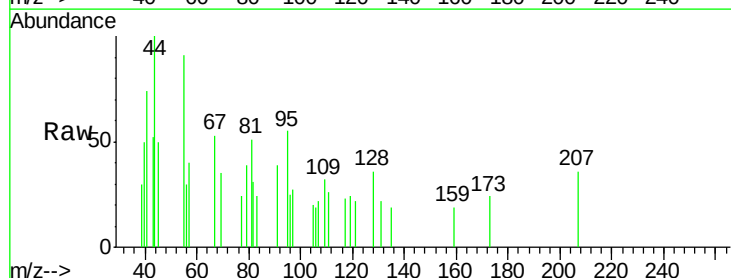
Tgt Ion:173 Resp: 70

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

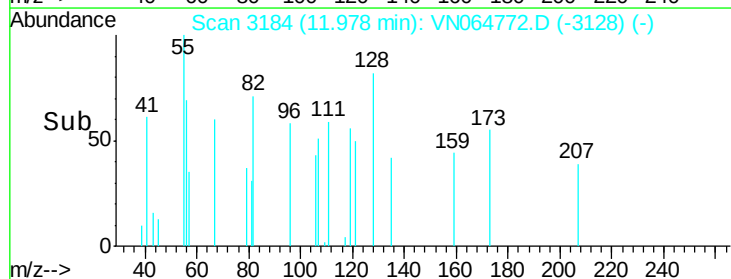
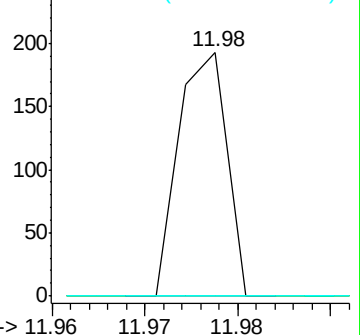
254 0.0 0.1 0.1#

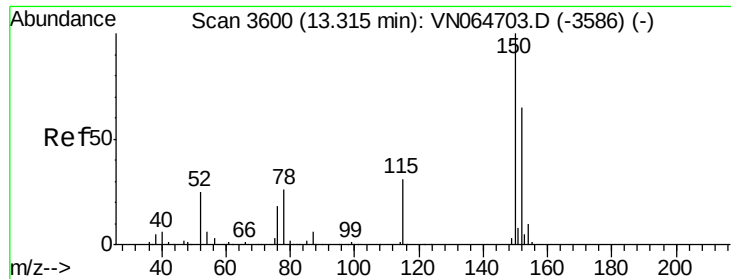


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064772.D

Acq: 20 Nov 2020 9:55

Instrument :

MSVOA_N

ClientSampleId :

1841

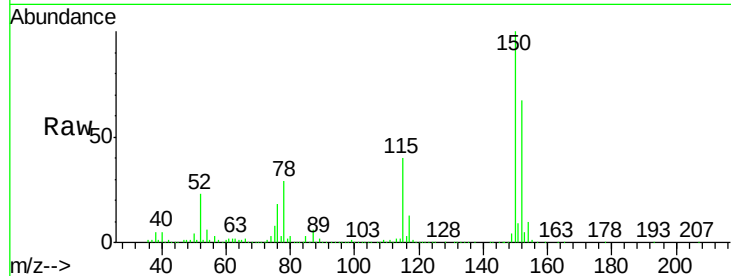
Tgt Ion:152 Resp: 320391

Ion Ratio Lower Upper

152 100

115 62.2 32.1 96.3

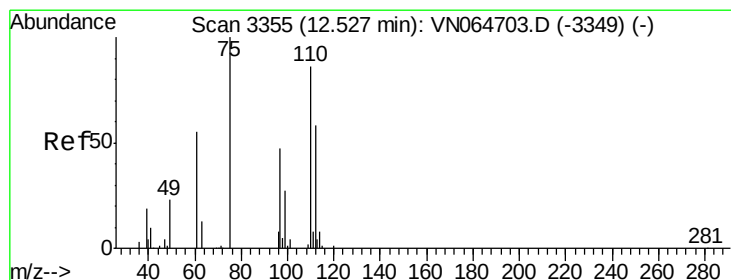
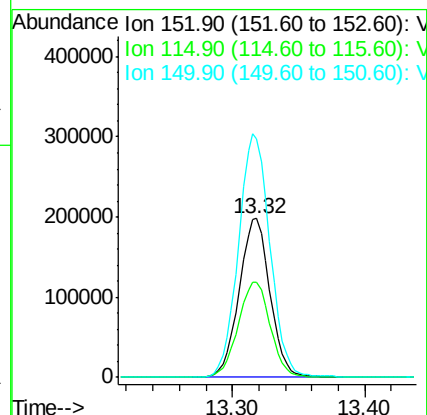
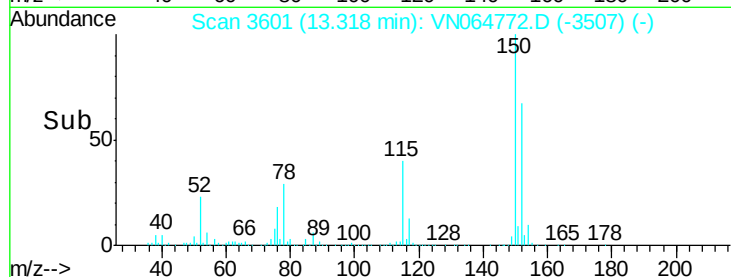
150 157.1 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.251 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064772.D

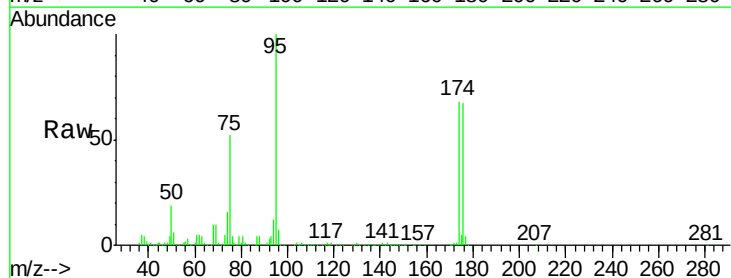
Acq: 20 Nov 2020 9:55

Tgt Ion: 75 Resp: 181216

Ion Ratio Lower Upper

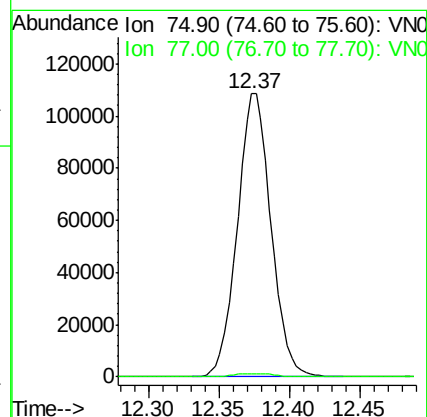
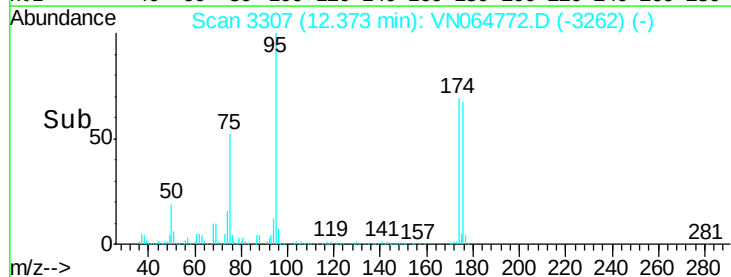
75 100

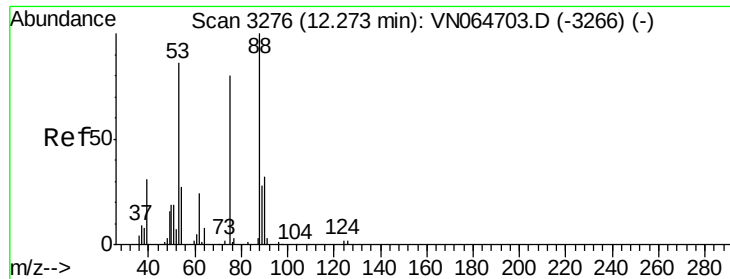
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

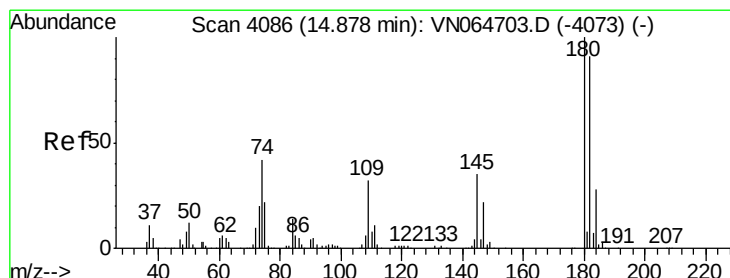
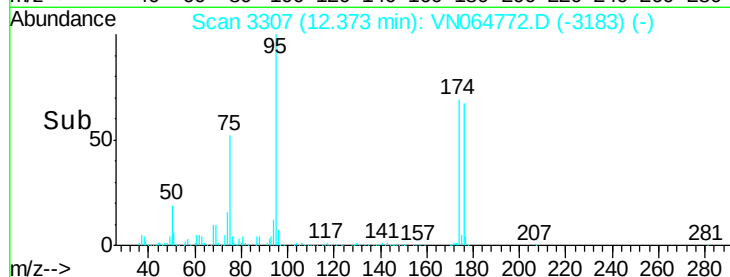
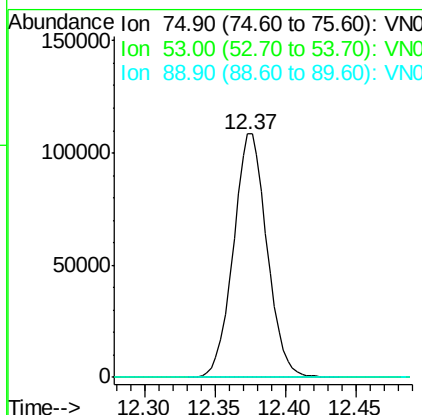
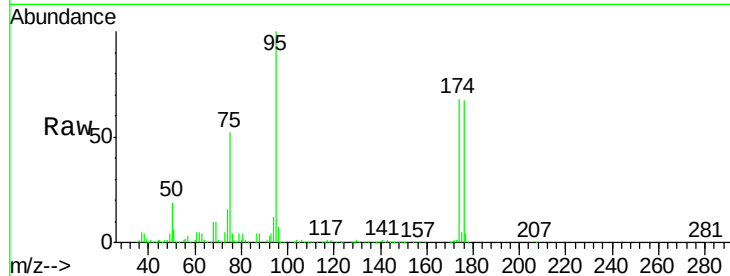




#81
trans-1,4-Dichloro-2-butene
Concen: 67.108 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Instrument :
MSVOA_N
ClientSampleId :
1841

Tgt Ion: 75 Resp: 181216
Ion Ratio Lower Upper
75 100
53 0.4 88.8 133.2#
89 0.1 43.1 64.7#



#93
1,2,4-Trichlorobenzene
Concen: 1.343 ug/l
RT: 14.67 min Scan# 4021
Delta R.T. -0.21 min
Lab File: VN064772.D
Acq: 20 Nov 2020 9:55

Tgt Ion: 180 Resp: 64
Ion Ratio Lower Upper
180 100
182 0.0 47.3 141.8#
145 295.3 17.5 52.5#

