

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\
 Data File : VN064764.D
 Acq On : 20 Nov 2020 6:43
 Operator : JC/MD
 Sample : L4798-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20BR-20201118

Quant Time: Nov 20 08:14:39 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	222383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	475206	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	508048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	191791	50.00	ug/l	0.00

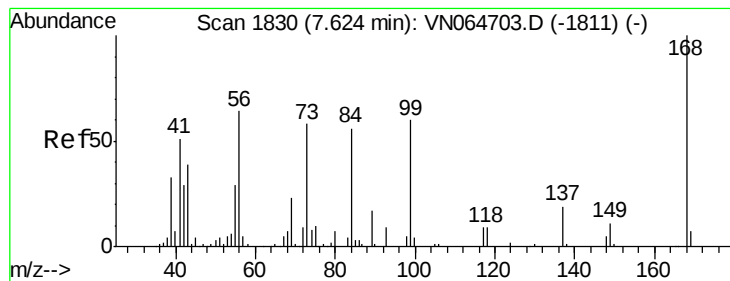
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	213497	54.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.14%	
35) Dibromofluoromethane	7.55	113	137099	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
50) Toluene-d8	10.06	98	564001	45.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.76%	
62) 4-Bromofluorobenzene	12.38	95	219095	47.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	61611	22.173	ug/l	100
4) Vinyl Chloride	2.17	62	2067492	644.870	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.71	101	14862	5.989	ug/l #	86
12) 1,1-Dichloroethene	3.69	96	31758	13.283	ug/l	99
13) Acrolein	3.55	56	71	0.799	ug/l #	11
16) Acetone	3.78	43	3288	8.468	ug/l #	86
18) Methyl Acetate	4.30	43	828	1.615	ug/l #	62
21) trans-1,2-Dichloroethene	4.99	96	39977	14.985	ug/l	98
25) 2-Butanone	6.79	43	531	0.355	ug/l #	1
27) cis-1,2-Dichloroethene	6.78	96	10042083	3414.311	ug/l	79
29) Tetrahydrofuran	7.18	42	1606	1.589	ug/l #	61
31) Cyclohexane	7.63	56	6595	1.559	ug/l #	10
36) 1,1-Dichloropropene	7.63	75	22110	4.522	ug/l #	49
38) Carbon Tetrachloride	7.62	117	26450	5.091	ug/l #	17
39) Methylcyclohexane	8.80	83	28209	6.512	ug/l #	1
44) Trichloroethene	8.80	130	2034413	520.393	ug/l	100
51) 4-Methyl-2-Pentanone	9.94	43	237	6.178	ug/l #	39
59) 2-Hexanone	10.73	43	255	8.509	ug/l #	28
71) Bromoform	12.35	173	88	2.473	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	125959	30.481	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	125959	77.676	ug/l #	5

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

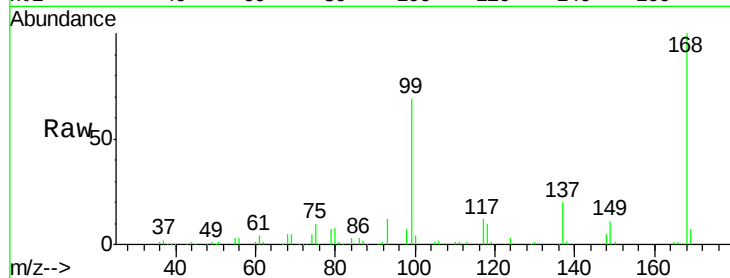
20BR-20201118

Tot Ion:168 Resp: 222383

Ion Ratio Lower Upper

168 100

99 69.4 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

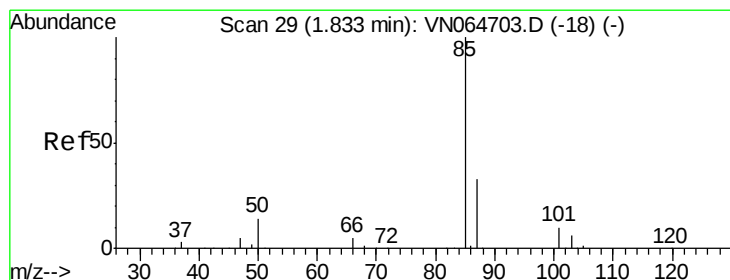
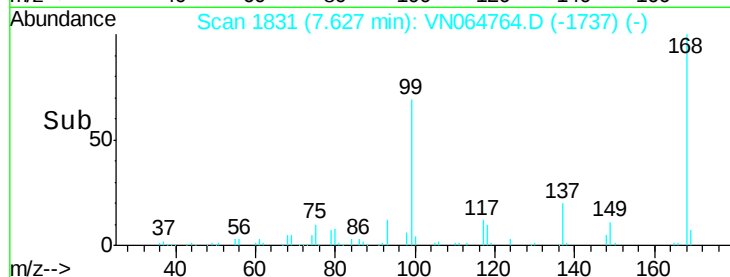
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 22.173 ug/l

RT: 1.83 min Scan# 29

Delta R.T. -0.00 min

Lab File: VN064764.D

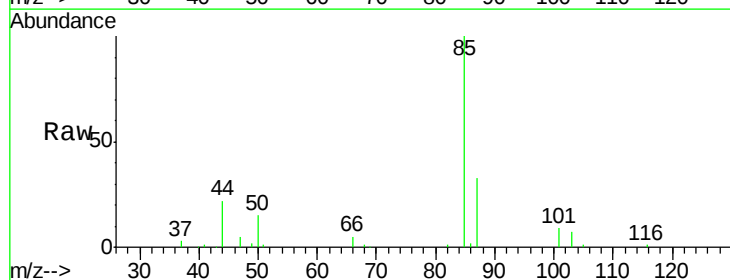
Acq: 20 Nov 2020 6:43

Tgt Ion: 85 Resp: 61611

Ion Ratio Lower Upper

85 100

87 32.6 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

50000

40000

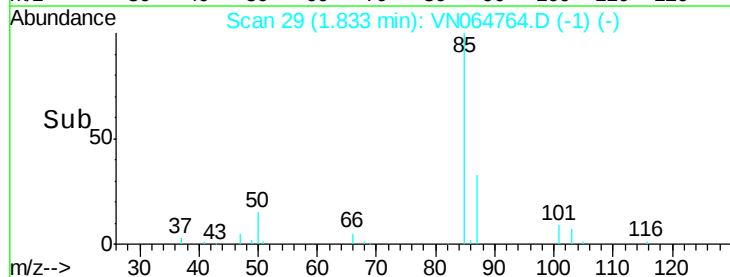
30000

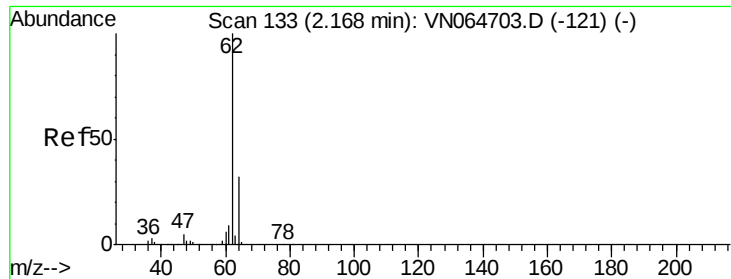
20000

10000

0

Time--> 1.80 1.85 1.90





#4

Vinyl Chloride

Concen: 644.870 ug/l

RT: 2.17 min Scan# 133

Delta R.T. -0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

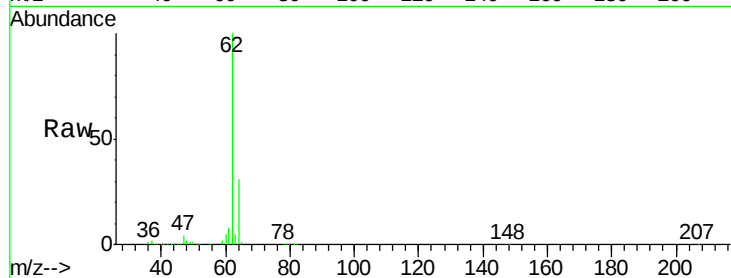
20BR-20201118

Tot Ion: 62 Resp: 2067492

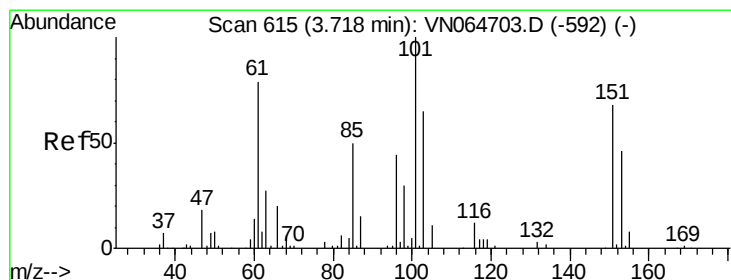
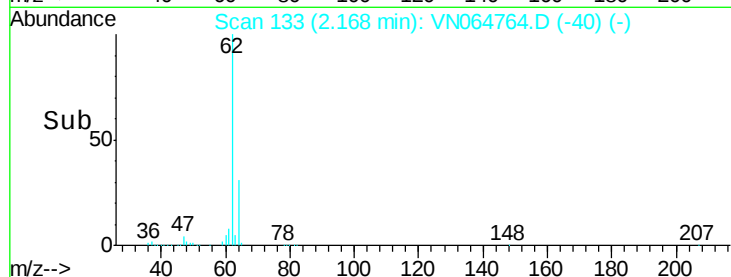
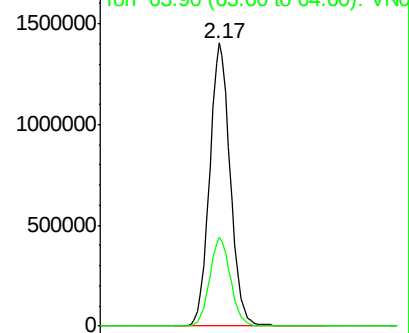
Ion Ratio Lower Upper

62 100

64 31.3 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VN064764.D (-40) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.989 ug/l

RT: 3.71 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

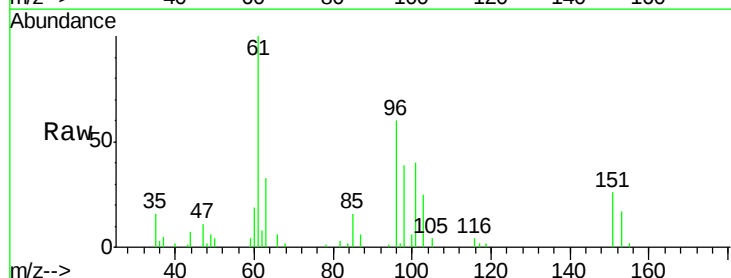
Tgt Ion: 101 Resp: 14862

Ion Ratio Lower Upper

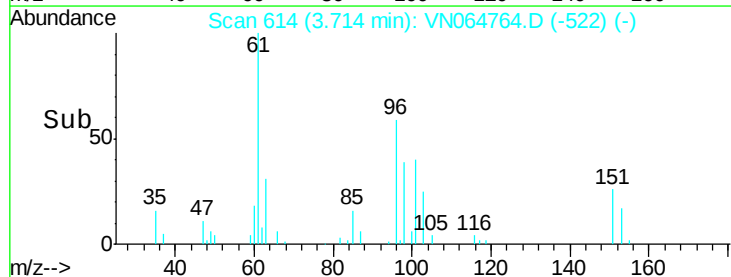
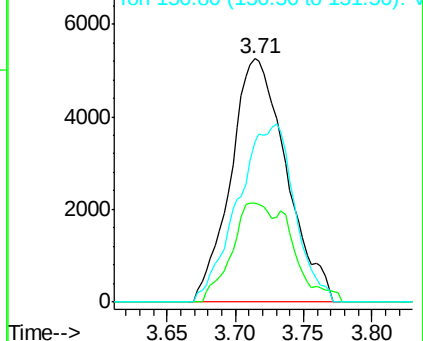
101 100

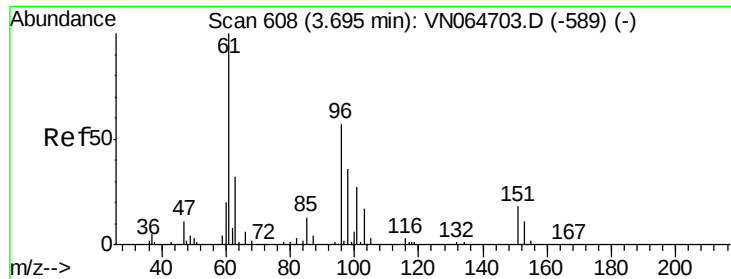
85 28.3 39.0 58.4#

151 74.7 57.2 85.8



Abundance Ion 100.90 (100.60 to 101.60): VN064764.D (-522) (-)





#12

1,1-Dichloroethene

Concen: 13.283 ug/l

RT: 3.69 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

20BR-20201118

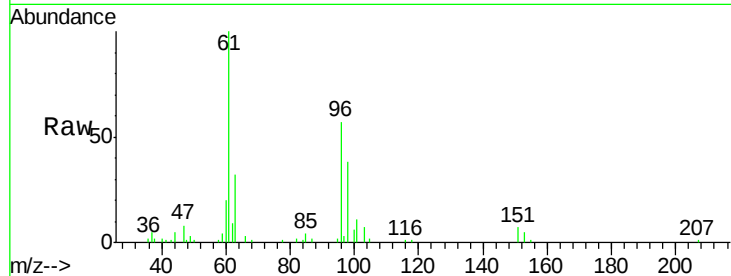
Tot Ion: 96 Resp: 31758

Ion Ratio Lower Upper

96 100

61 174.3 139.1 208.7

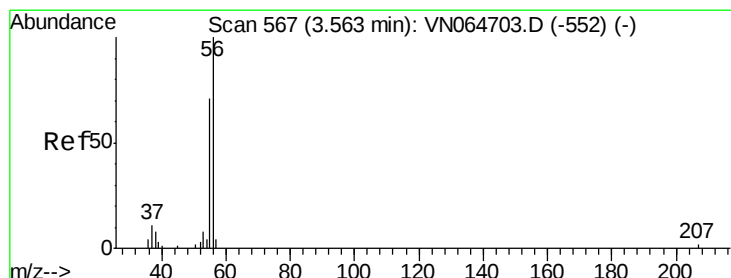
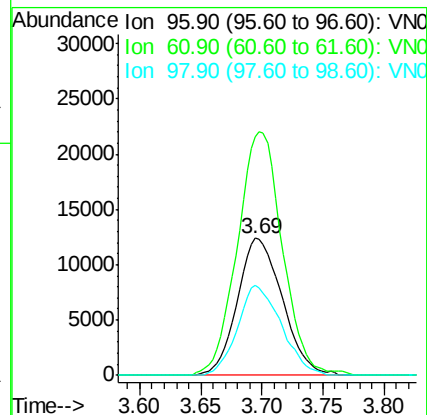
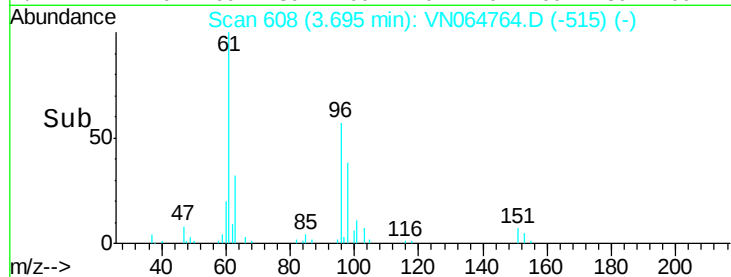
98 65.8 50.2 75.2



Abundance Ion 95.90 (95.60 to 96.60): VN064764.D (-515) (-)

Ion 60.90 (60.60 to 61.60): VN064764.D (-515) (-)

Ion 97.90 (97.60 to 98.60): VN064764.D (-515) (-)



#13

Acrolein

Concen: 0.799 ug/l

RT: 3.55 min Scan# 563

Delta R.T. -0.01 min

Lab File: VN064764.D

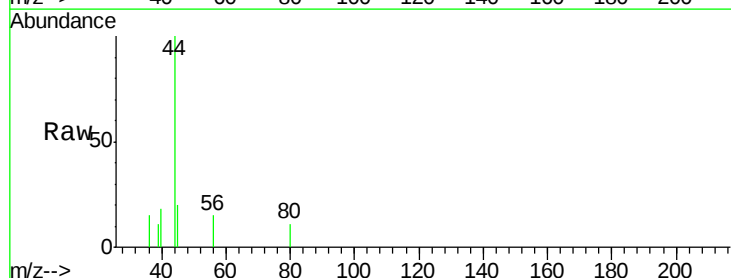
Acq: 20 Nov 2020 6:43

Tgt Ion: 56 Resp: 71

Ion Ratio Lower Upper

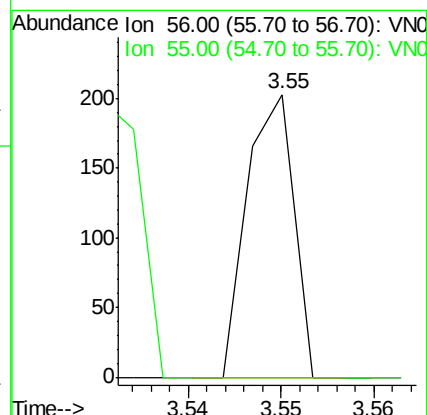
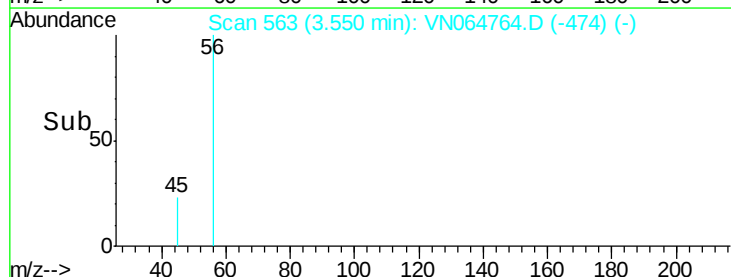
56 100

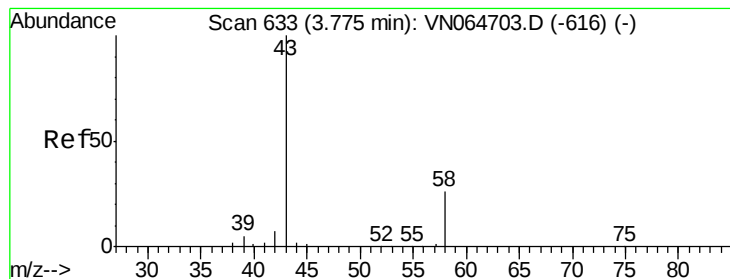
55 0.0 61.8 92.6#



Abundance Ion 56.00 (55.70 to 56.70): VN064764.D (-474) (-)

Ion 55.00 (54.70 to 55.70): VN064764.D (-474) (-)





#16

Acetone

Concen: 8.468 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

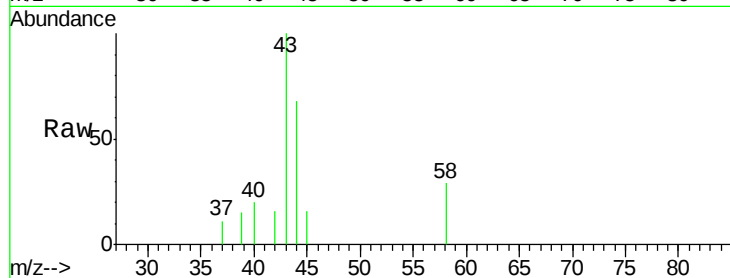
20BR-20201118

Tot Ion: 43 Resp: 3288

Ion Ratio Lower Upper

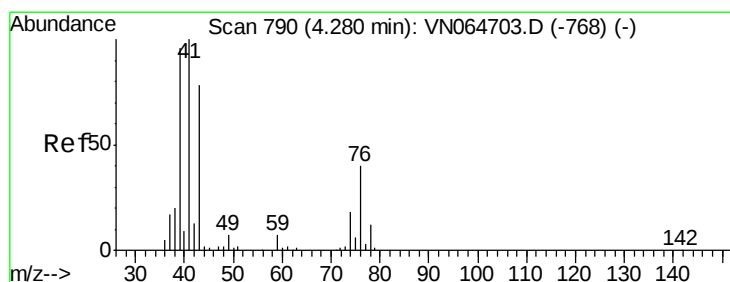
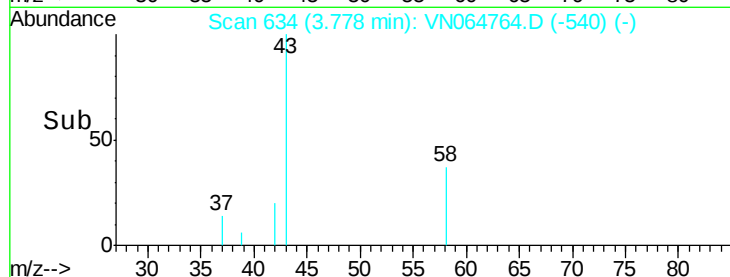
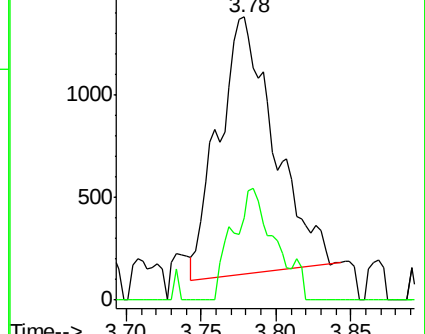
43 100

58 33.6 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: 1.615 ug/l

RT: 4.30 min Scan# 796

Delta R.T. 0.02 min

Lab File: VN064764.D

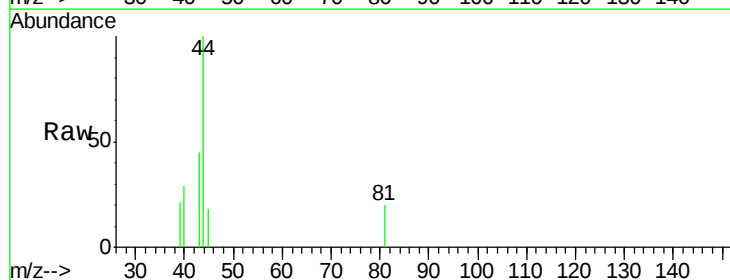
Acq: 20 Nov 2020 6:43

Tgt Ion: 43 Resp: 828

Ion Ratio Lower Upper

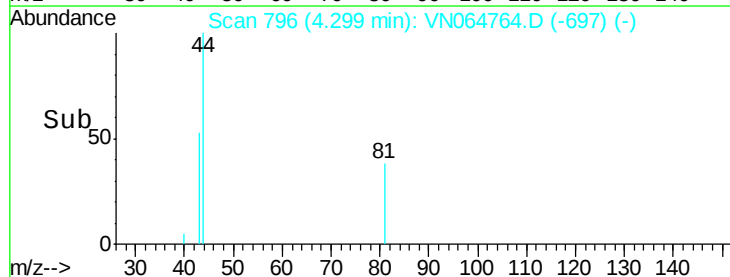
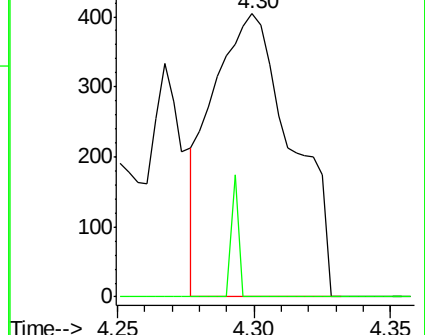
43 100

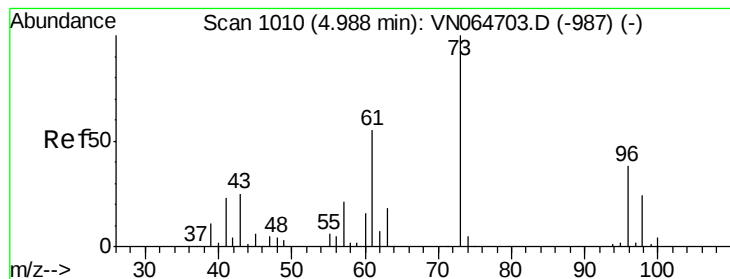
74 4.1 17.6 26.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#21

trans-1,2-Dichloroethene

Concen: 14.985 ug/l

RT: 4.99 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

20BR-20201118

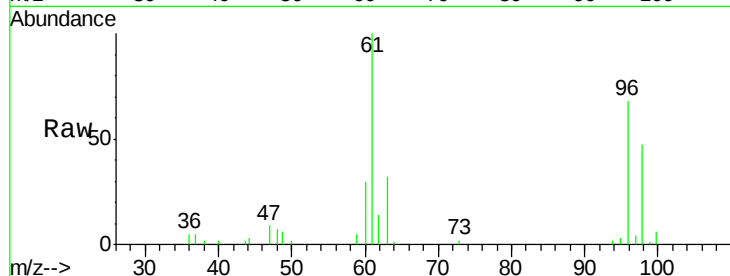
Tot Ion: 96 Resp: 39977

Ion Ratio Lower Upper

96 100

61 146.2 117.9 176.9

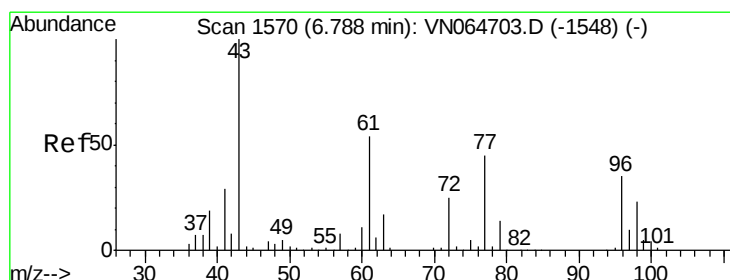
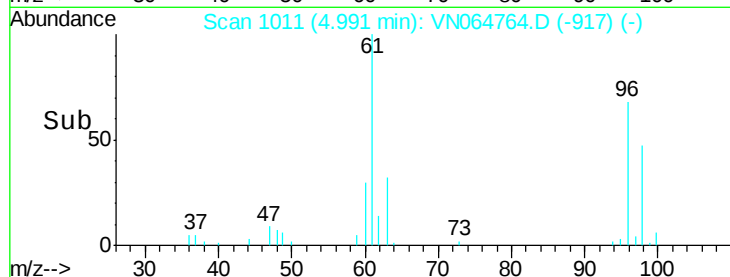
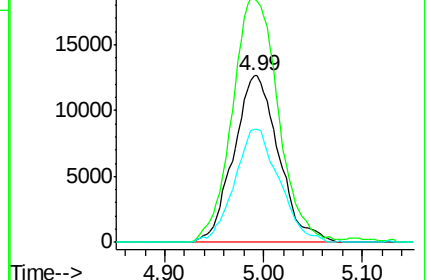
98 68.0 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VN064764.D (-1477) (-)

Ion 60.90 (60.60 to 61.60): VN064764.D (-1477) (-)

Ion 97.90 (97.60 to 98.60): VN064764.D (-1477) (-)



#25

2-Butanone

Concen: 0.355 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN064764.D

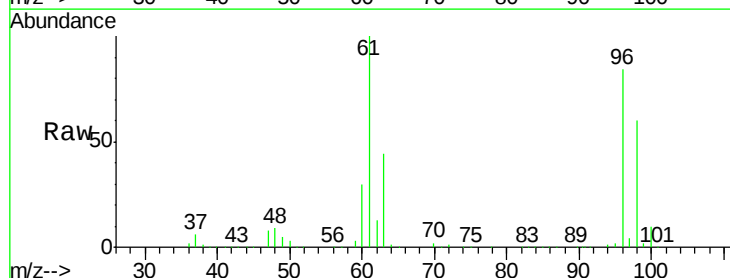
Acq: 20 Nov 2020 6:43

Tgt Ion: 43 Resp: 531

Ion Ratio Lower Upper

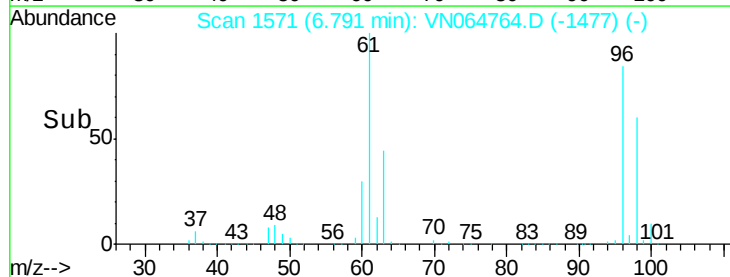
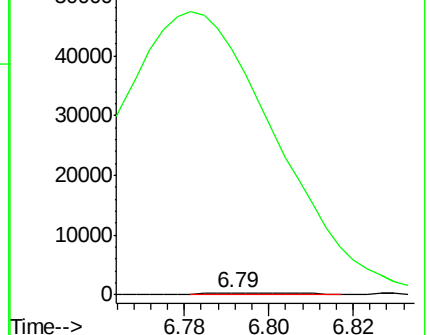
43 100

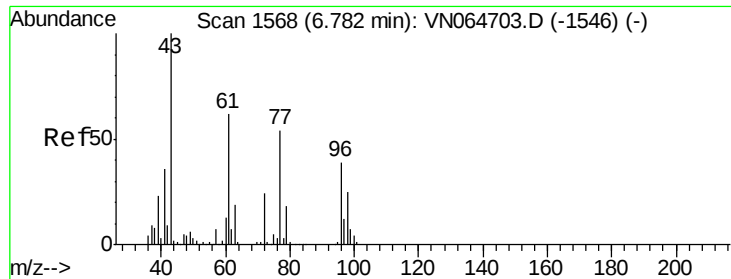
72 8588.1 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN064764.D (-1477) (-)

Ion 72.00 (71.70 to 72.70): VN064764.D (-1477) (-)





#27

cis-1,2-Dichloroethene

Concen: 3414.311 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

20BR-20201118

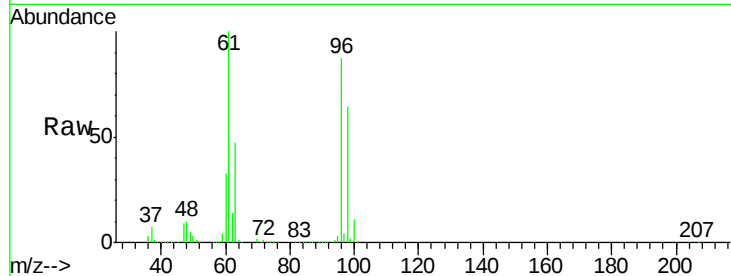
Tot Ion: 96 Resp:10042083

Ion Ratio Lower Upper

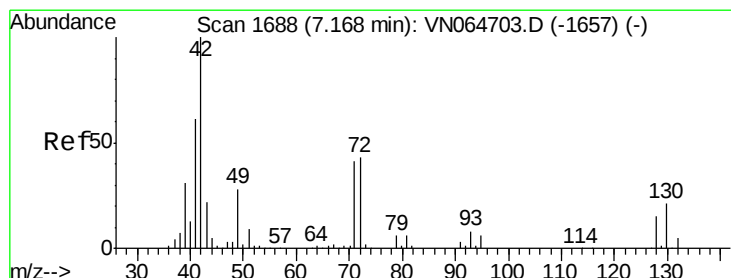
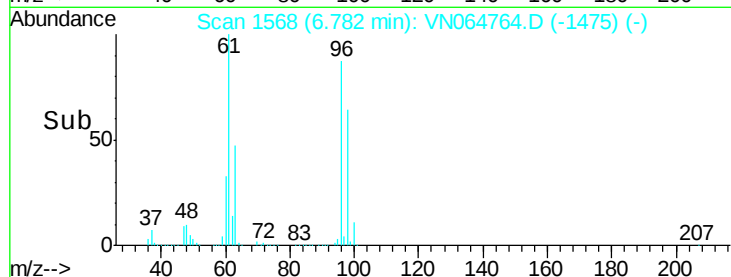
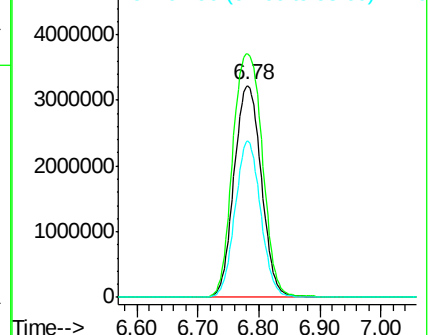
96 100

61 125.5 0.0 322.6

98 69.5 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VNO
5000000
Ion 60.90 (60.60 to 61.60): VNO
4000000
Ion 97.90 (97.60 to 98.60): VNO
3000000
2000000
1000000
0



#29

Tetrahydrofuran

Concen: 1.589 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

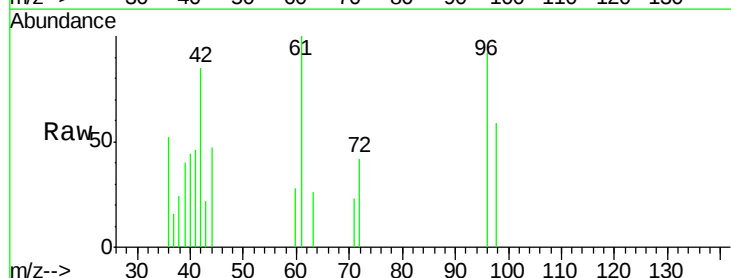
Tgt Ion: 42 Resp: 1606

Ion Ratio Lower Upper

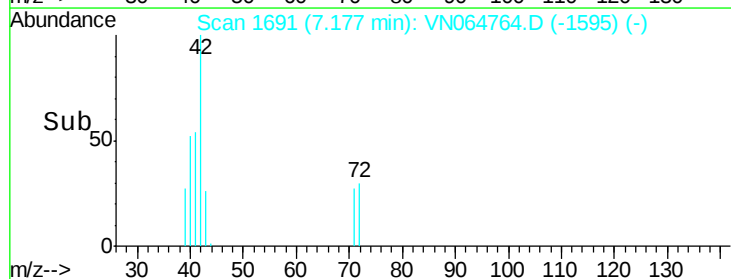
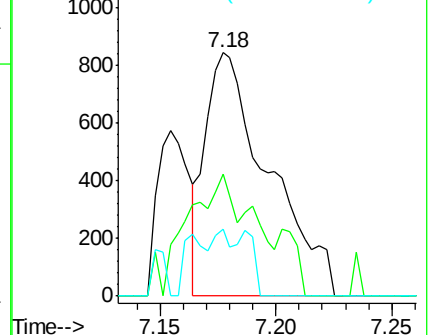
42 100

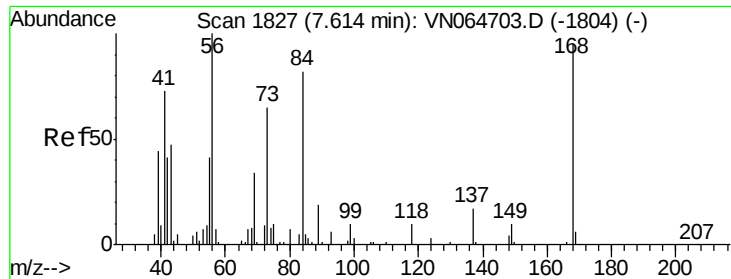
72 52.2 33.0 49.4#

71 2.2 31.8 47.6#



Abundance Ion 42.00 (41.70 to 42.70): VNO
1000
Ion 72.00 (71.70 to 72.70): VNO
800
Ion 71.00 (70.70 to 71.70): VNO
600
400
200
0

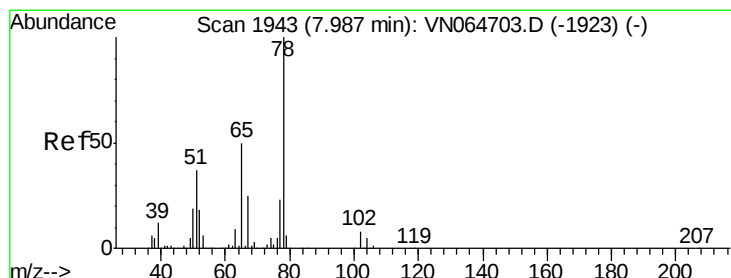
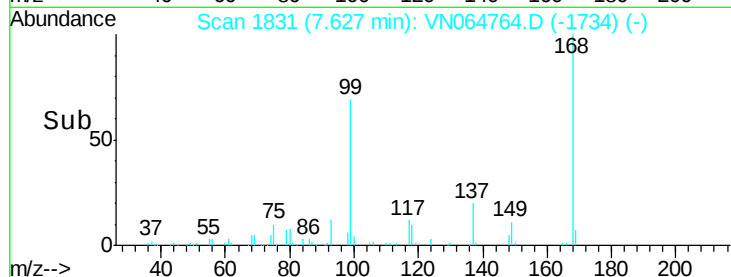
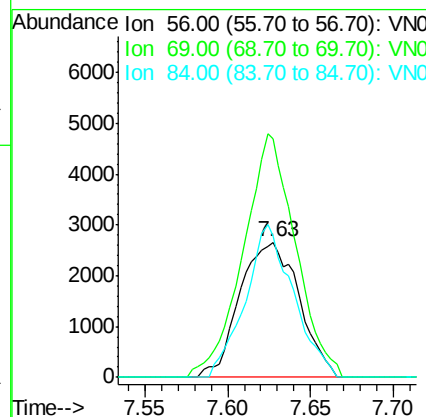
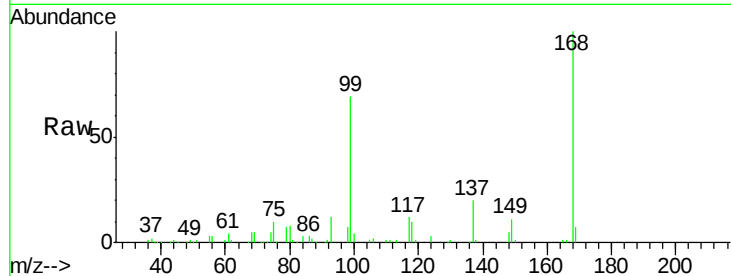




#31
Cyclohexane
Concen: 1.559 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

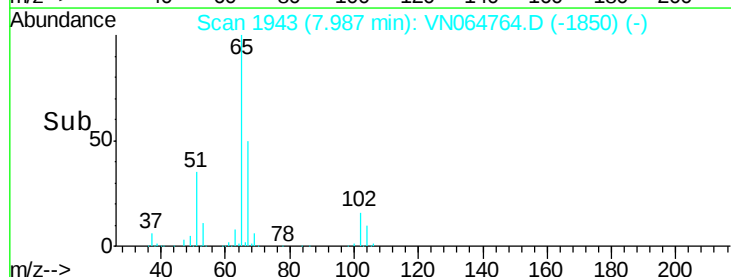
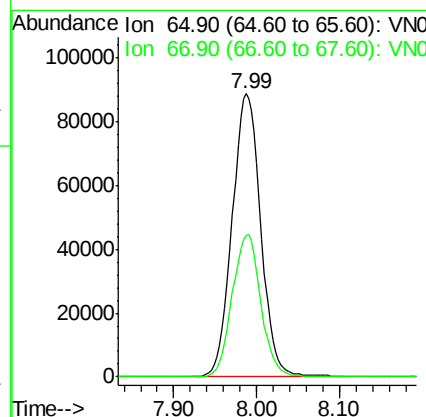
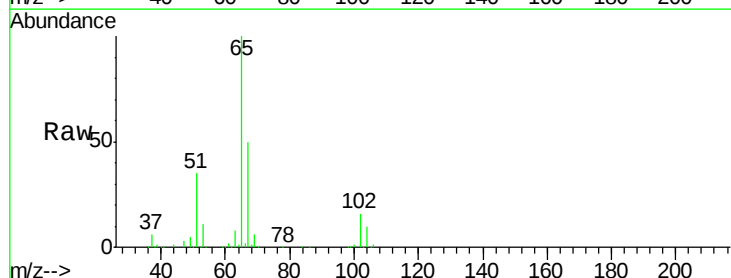
Instrument :
MSVOA_N
ClientSampleId :
20BR-20201118

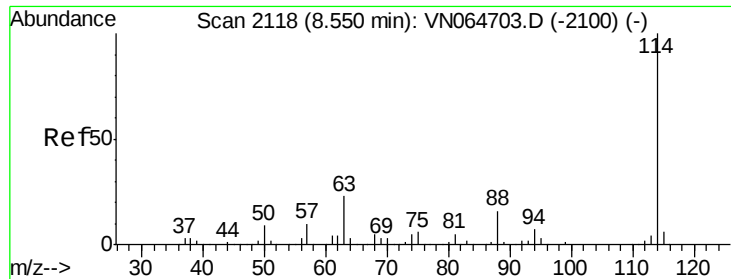
Tot Ion: 56 Resp: 6595
Ion Ratio Lower Upper
56 100
69 176.1 27.2 40.8#
84 104.9 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 54.574 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

Tgt Ion: 65 Resp: 213497
Ion Ratio Lower Upper
65 100
67 50.2 0.0 99.8

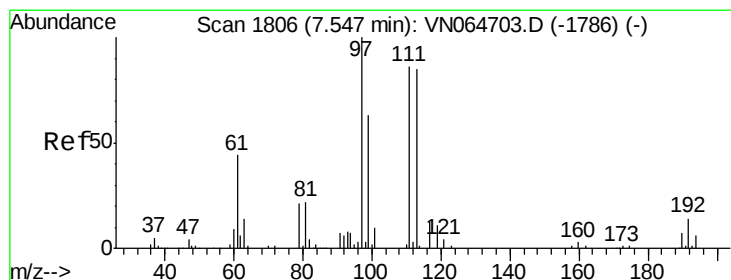
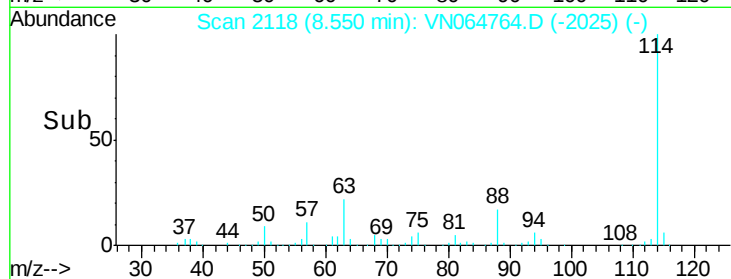
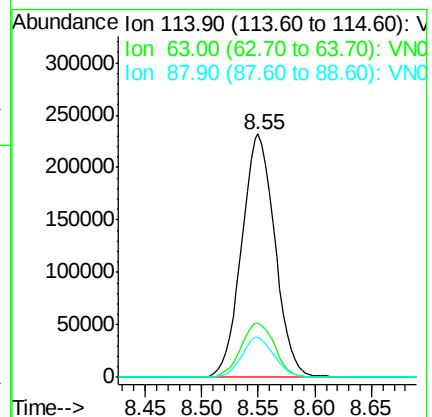
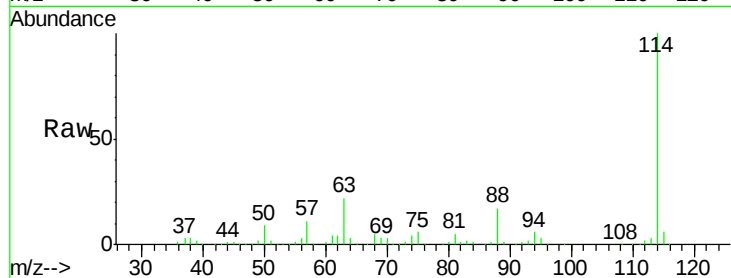




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

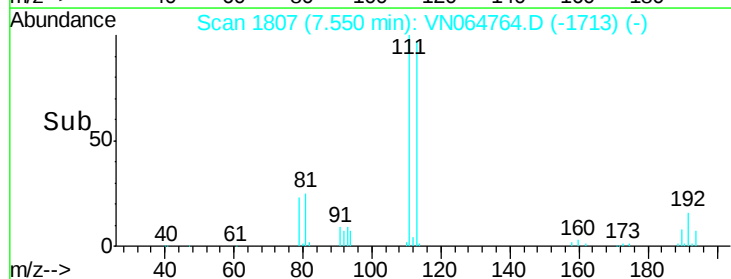
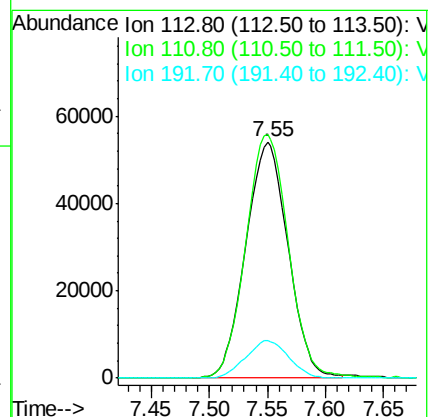
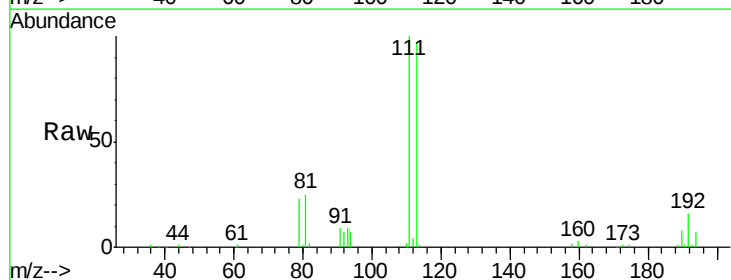
Instrument :
MSVOA_N
ClientSampleId :
20BR-20201118

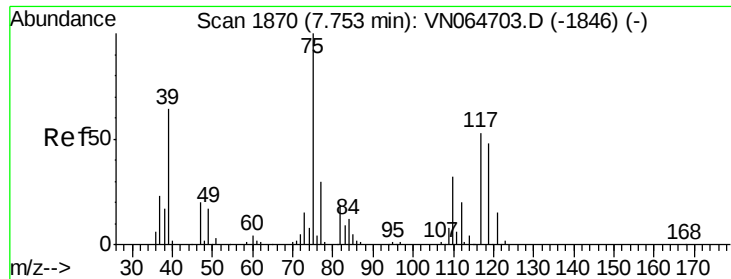
Tot Ion:114 Resp: 475206
Ion Ratio Lower Upper
114 100
63 22.5 0.0 46.0
88 16.6 0.0 31.2



#35
Dibromofluoromethane
Concen: 50.688 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

Tgt Ion:113 Resp: 137099
Ion Ratio Lower Upper
113 100
111 104.2 82.2 123.4
192 16.1 12.7 19.1

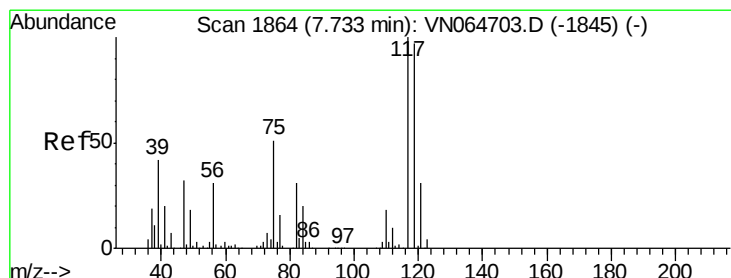
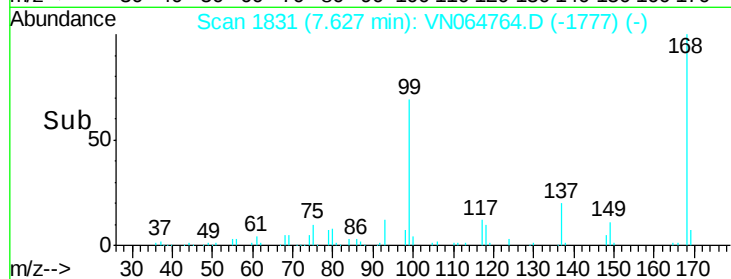
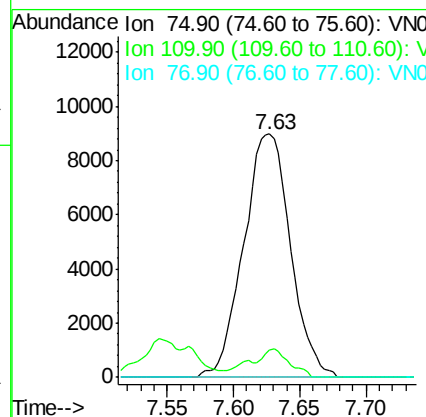
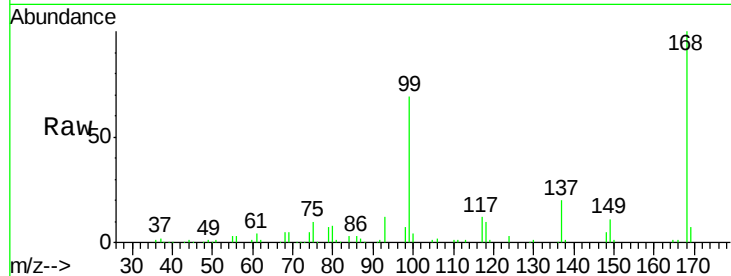




#36
 1,1-Dichloropropene
 Concen: 4.522 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064764.D
 Acq: 20 Nov 2020 6:43

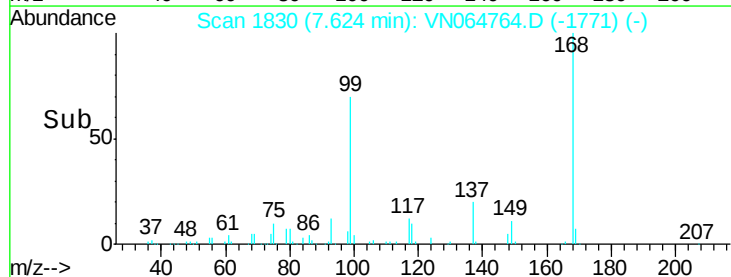
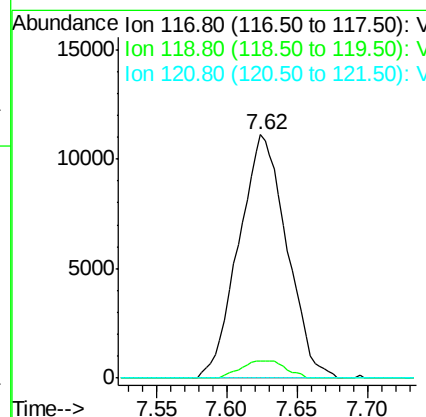
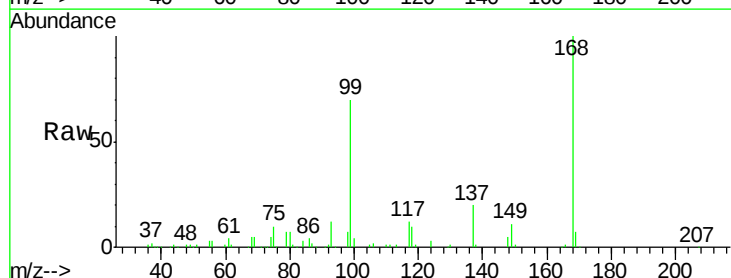
Instrument :
 MSVOA_N
 ClientSampleId :
 20BR-20201118

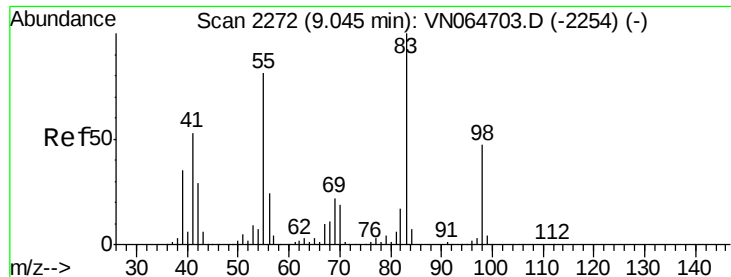
Tot Ion: 75 Resp: 22110
 Ion Ratio Lower Upper
 75 100
 110 6.6 16.2 48.6#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.091 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064764.D
 Acq: 20 Nov 2020 6:43

Tgt Ion: 117 Resp: 26450
 Ion Ratio Lower Upper
 117 100
 119 6.8 77.8 116.6#
 121 0.0 24.9 37.3#

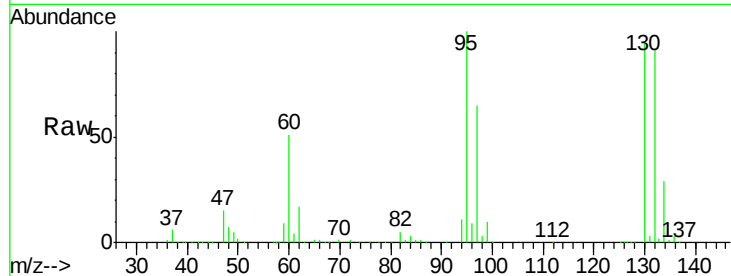




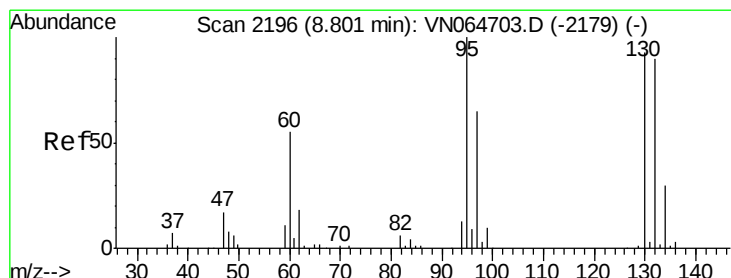
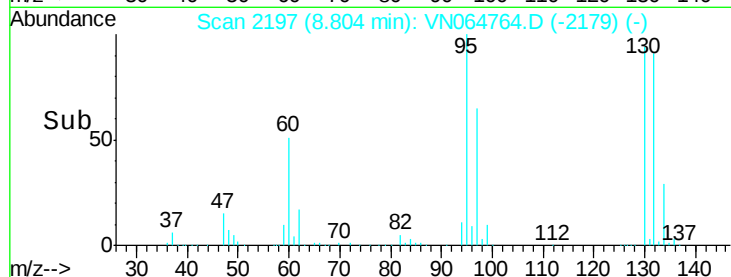
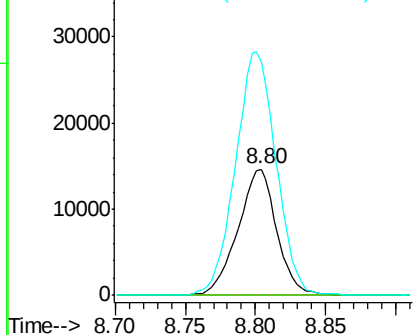
#39
Methvlcvclohexane
Concen: 6.512 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

Instrument :
MSVOA_N
ClientSampleId :
20BR-20201118

Tot Ion: 83 Resp: 28209
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 184.6 37.7 56.5#

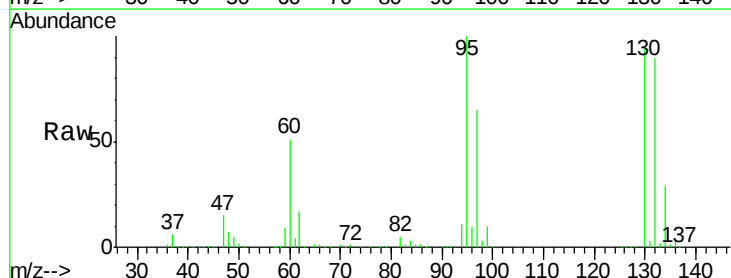


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

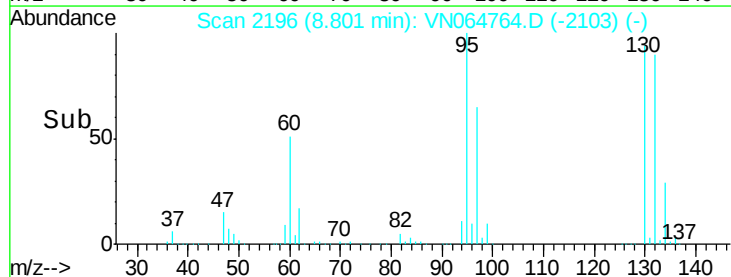
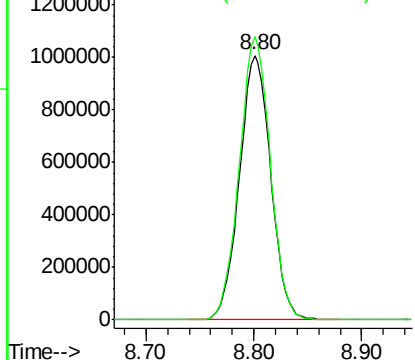


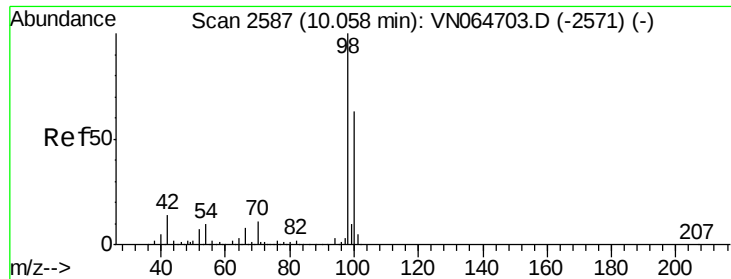
#44
Trichloroethene
Concen: 520.393 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

Tgt Ion:130 Resp: 2034413
Ion Ratio Lower Upper
130 100
95 106.9 0.0 214.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 45.881 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

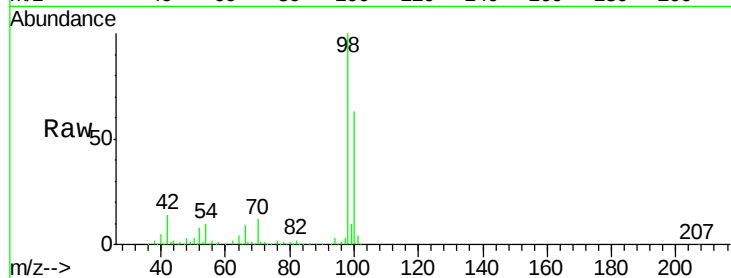
20BR-20201118

Tot Ion: 98 Resp: 564001

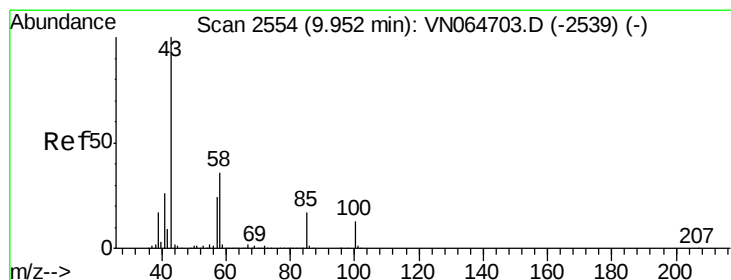
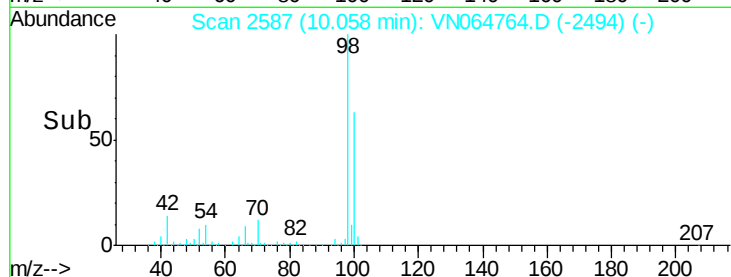
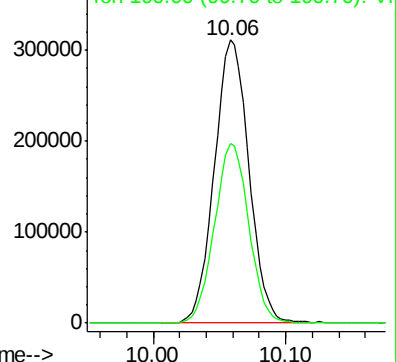
Ion Ratio Lower Upper

98 100

100 63.1 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN064764.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 6.178 ug/l

RT: 9.94 min Scan# 2551

Delta R.T. -0.01 min

Lab File: VN064764.D

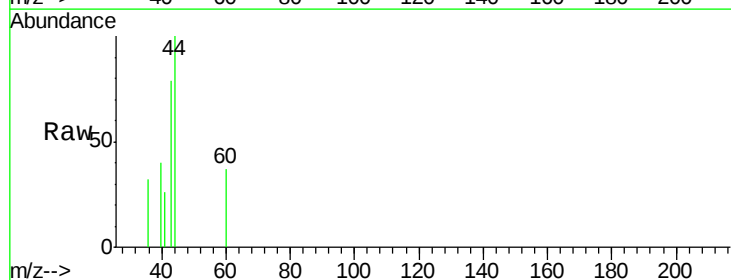
Acq: 20 Nov 2020 6:43

Tgt Ion: 43 Resp: 237

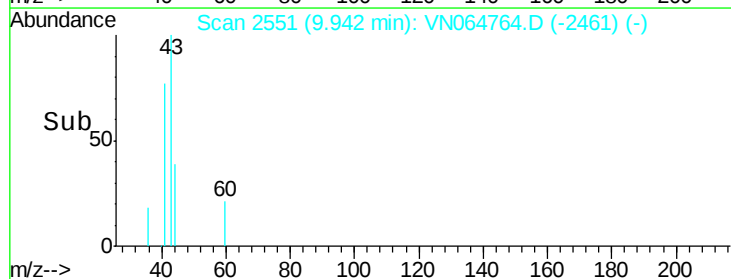
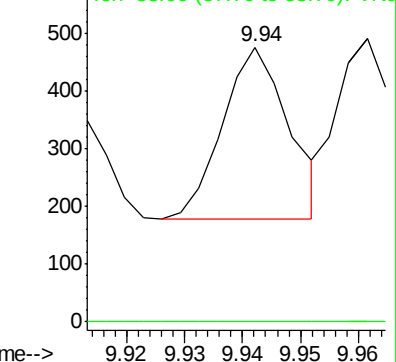
Ion Ratio Lower Upper

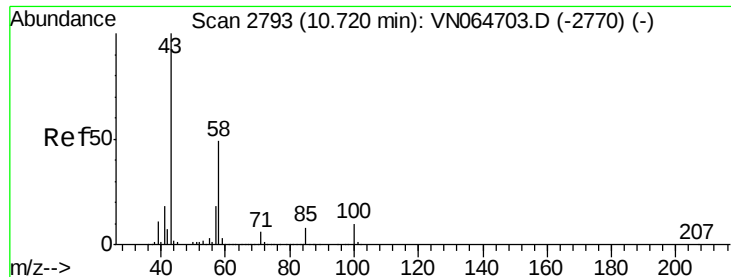
43 100

58 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN064764.D (-2461) (-)





#59

2-Hexanone

Concen: 8.509 ug/l

RT: 10.73 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

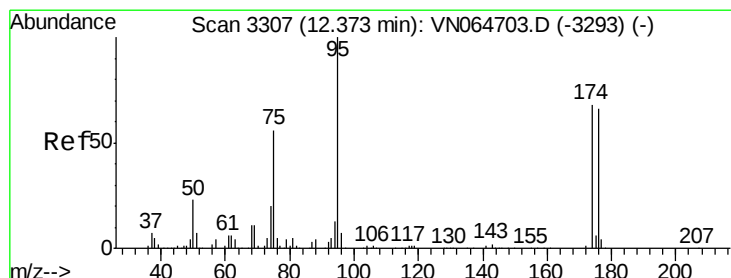
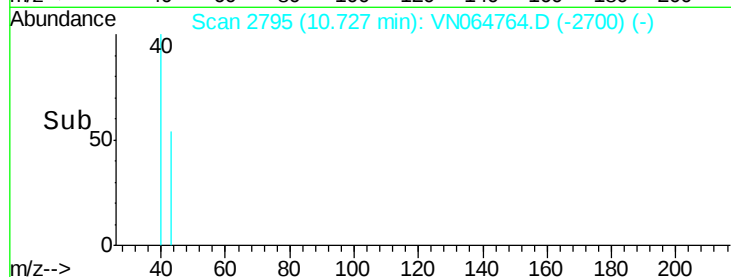
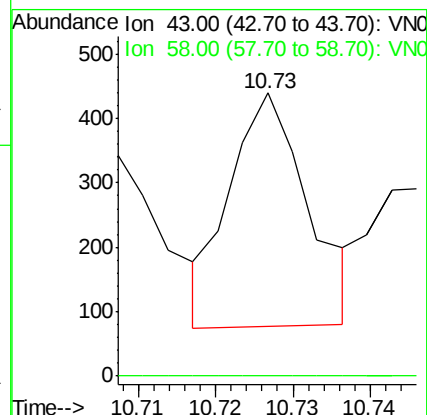
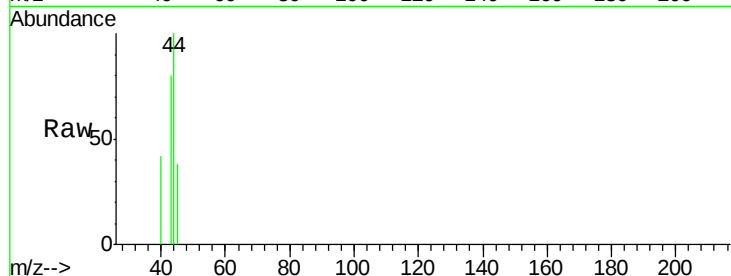
20BR-20201118

Tot Ion: 43 Resp: 255

Ion Ratio Lower Upper

43 100

58 0.0 24.4 73.4#



#62

4-Bromofluorobenzene

Concen: 47.684 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

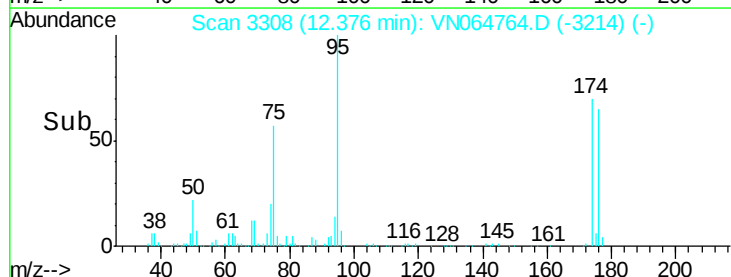
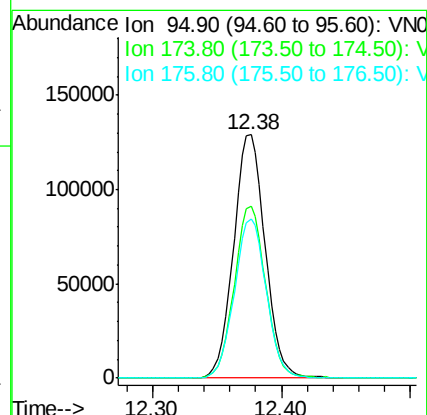
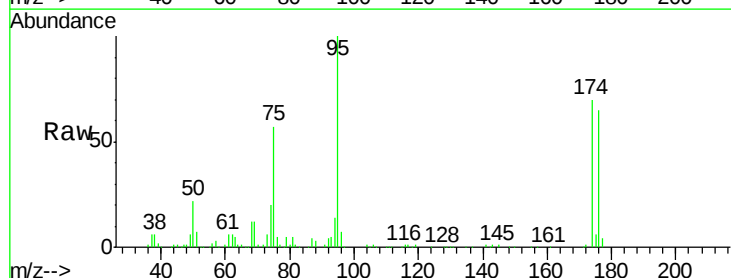
Tgt Ion: 95 Resp: 219095

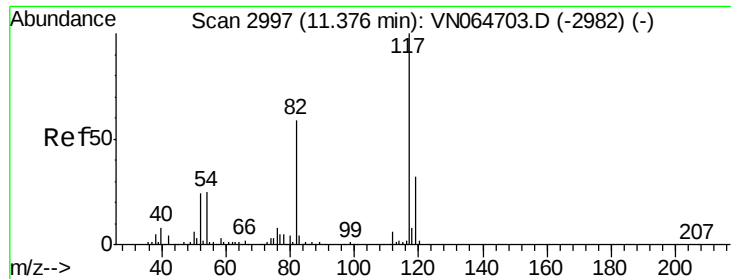
Ion Ratio Lower Upper

95 100

174 70.6 0.0 136.8

176 66.1 0.0 134.2

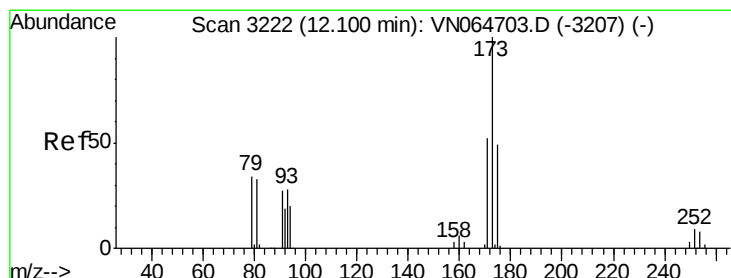
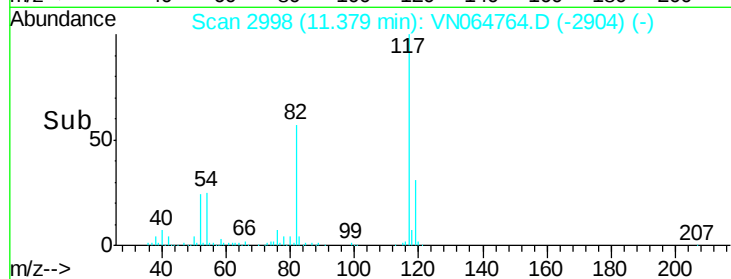
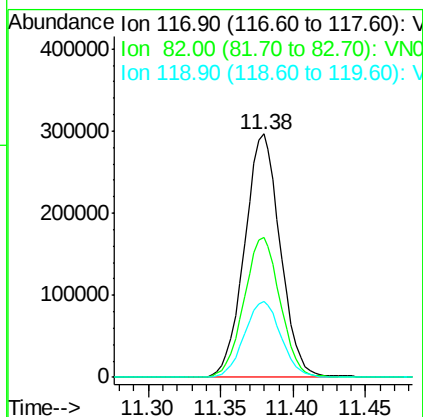
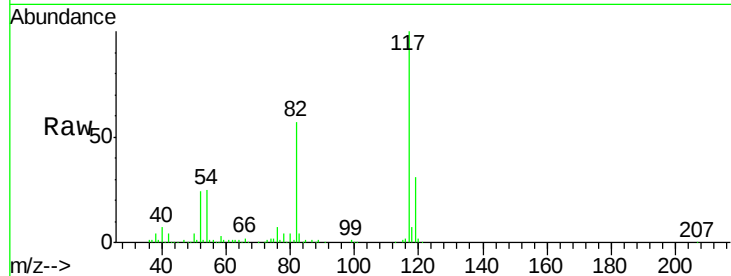




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

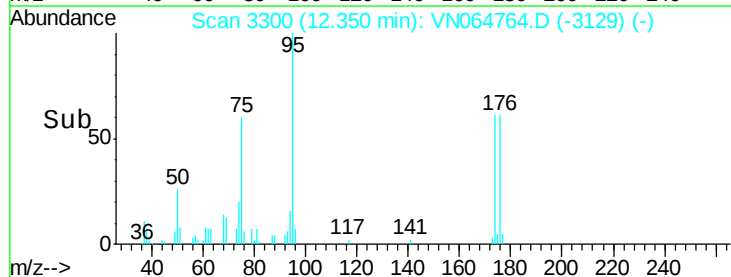
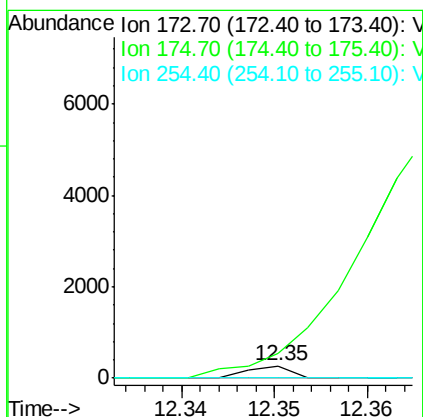
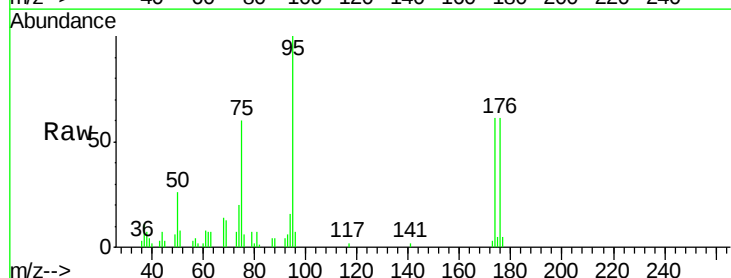
Instrument :
MSVOA_N
ClientSampleId :
20BR-20201118

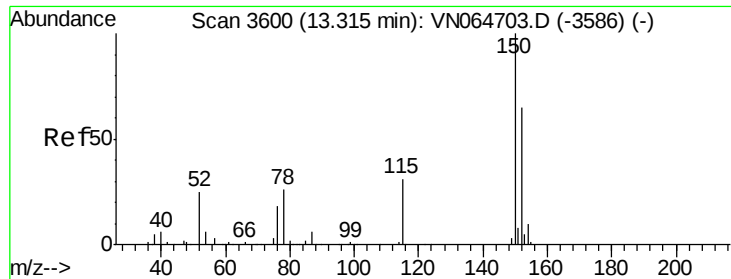
Tot Ion:117 Resp: 508048
Ion Ratio Lower Upper
117 100
82 57.5 47.0 70.6
119 31.0 25.4 38.2



#71
Bromoform
Concen: 2.473 ug/l
RT: 12.35 min Scan# 3300
Delta R.T. 0.25 min
Lab File: VN064764.D
Acq: 20 Nov 2020 6:43

Tgt Ion:173 Resp: 88
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

20BR-20201118

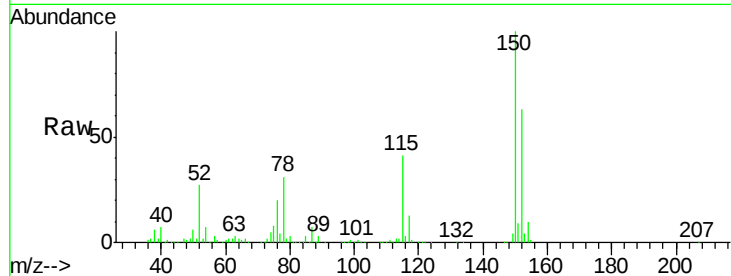
Tot Ion:152 Resp: 191791

Ion Ratio Lower Upper

152 100

115 63.8 32.1 96.3

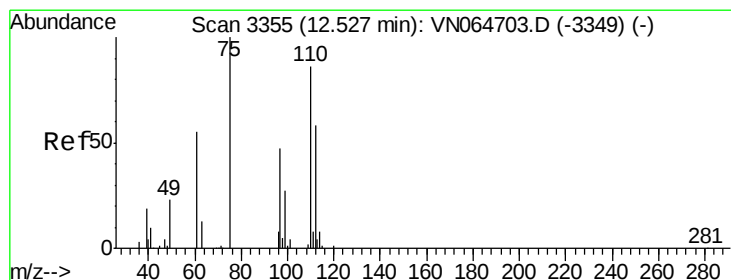
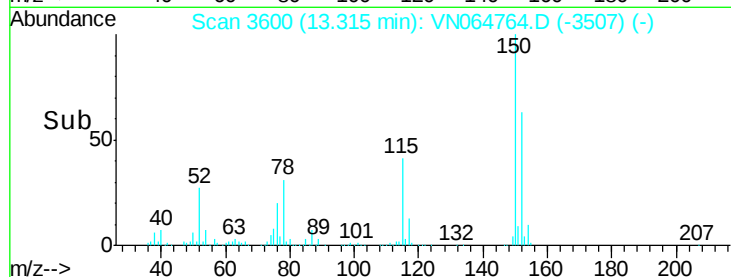
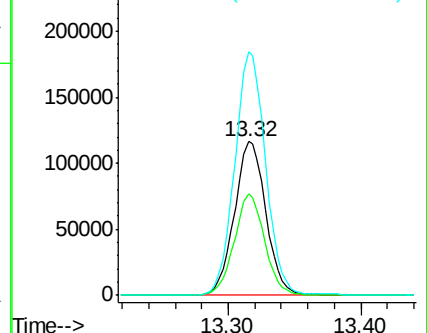
150 155.3 0.0 344.8



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: 30.481 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064764.D

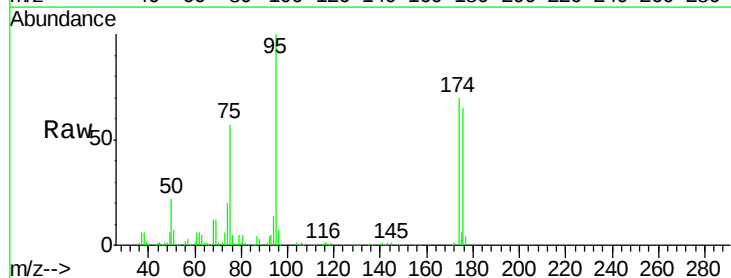
Acq: 20 Nov 2020 6:43

Tgt Ion: 75 Resp: 125959

Ion Ratio Lower Upper

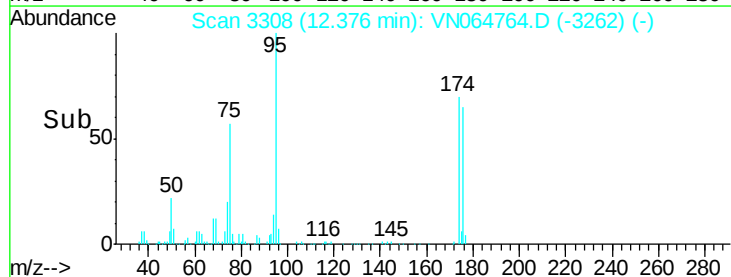
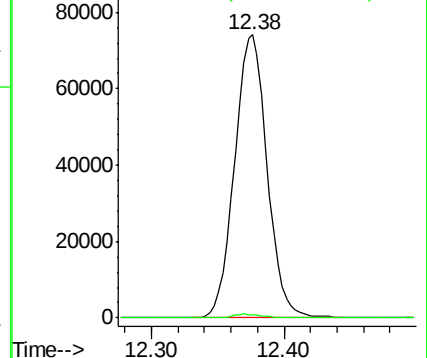
75 100

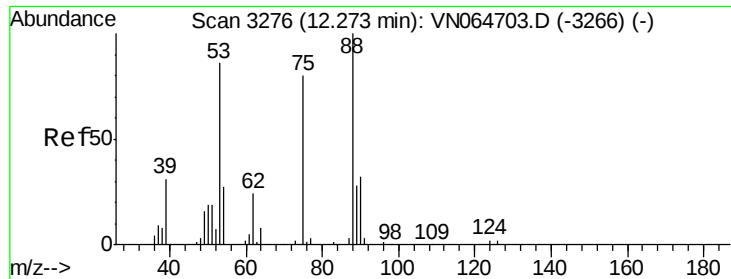
77 1.1 0.0 0.0#



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: 77.676 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064764.D

Acq: 20 Nov 2020 6:43

Instrument :

MSVOA_N

ClientSampleId :

20BR-20201118

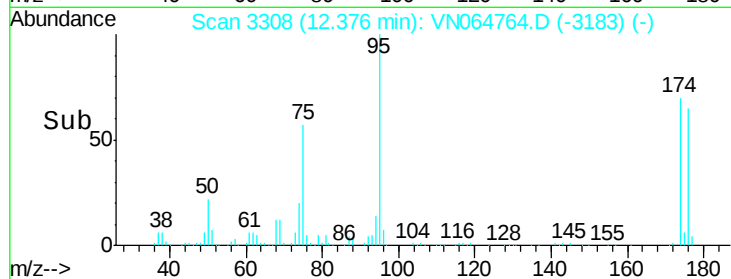
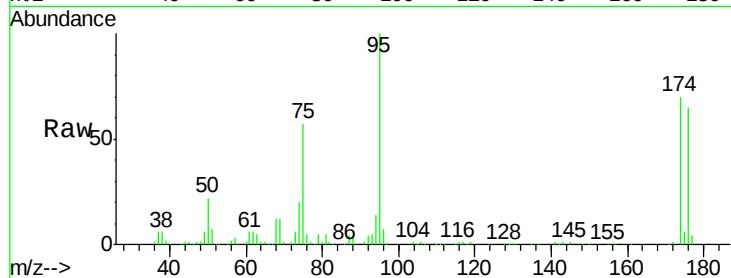
Tot Ion: 75 Resp: 125959

Ion Ratio Lower Upper

75 100

53 0.3 88.8 133.2#

89 0.0 43.1 64.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

