

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100820\  
 Data File : VN063988.D  
 Acq On : 8 Oct 2020 14:07  
 Operator : JC/MD  
 Sample : L4255-24  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EQB-20201001

Quant Time: Oct 09 04:03:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 01:46:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 254075   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 452157   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 469929   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 181107   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 212124   | 50.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.08% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 156312   | 49.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.64%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 588380   | 49.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.94%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 221121   | 49.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.92%  |          |

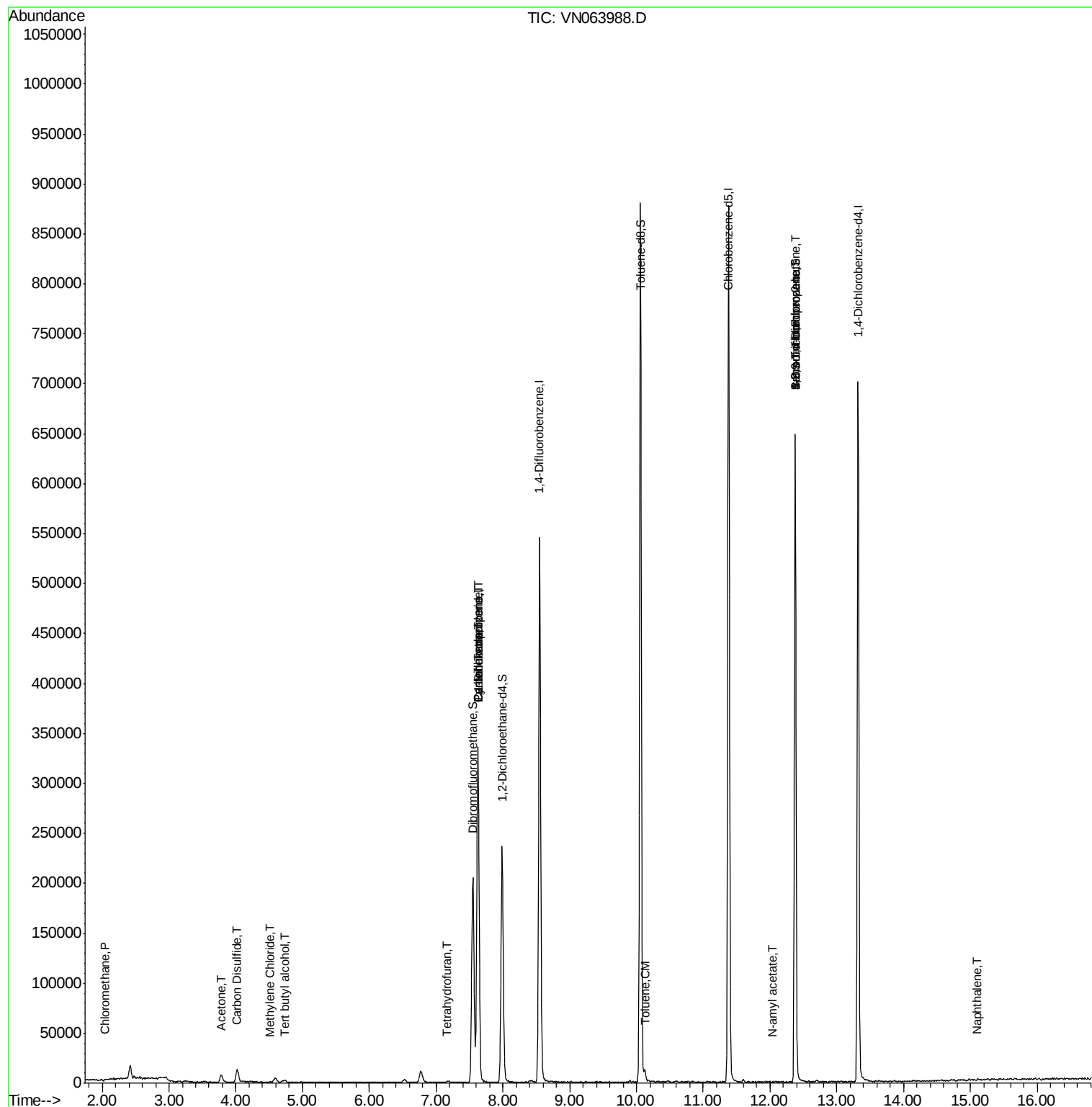
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 1285     | 0.408  | ug/l # | 78     |
| 11) Tert butyl alcohol         | 4.73  | 59   | 673      | 1.452  | ug/l # | 71     |
| 16) Acetone                    | 3.78  | 43   | 11508    | 8.906  | ug/l   | 99     |
| 17) Carbon Disulfide           | 4.01  | 76   | 457      | 0.766  | ug/l # | 76     |
| 20) Methylene Chloride         | 4.51  | 84   | 451      | 0.250  | ug/l # | 37     |
| 29) Tetrahydrofuran            | 7.16  | 42   | 513      | 0.418  | ug/l # | 36     |
| 31) Cyclohexane                | 7.63  | 56   | 6281     | 1.289  | ug/l # | 18     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 22196    | 4.845  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 27570    | 5.367  | ug/l # | 14     |
| 52) Toluene                    | 10.13 | 92   | 3341     | 0.413  | ug/l   | 92     |
| 71) Bromoform                  | 12.37 | 173  | 1073     | 0.380  | ug/l # | 1      |
| 74) N-amyl acetate             | 12.04 | 43   | 270      | 2.258  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 121708   | 30.486 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 121708   | 87.803 | ug/l # | 6      |
| 95) Naphthalene                | 15.11 | 128  | 31       | 1.927  | ug/l # | 69     |

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

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EQB-20201001

Quant Time: Oct 09 04:03:18 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 01:46:38 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

Instrument :

MSVOA\_N

ClientSampleId :

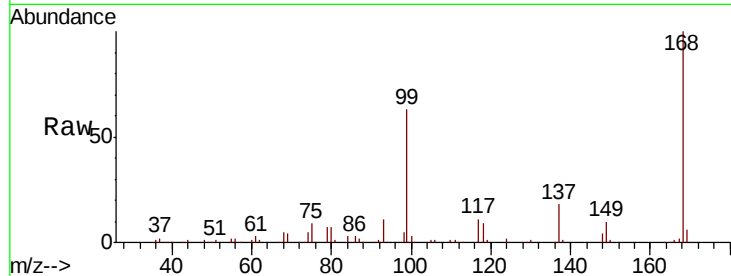
EQB-20201001

Tot Ion:168 Resp: 254075

Ion Ratio Lower Upper

168 100

99 63.3 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

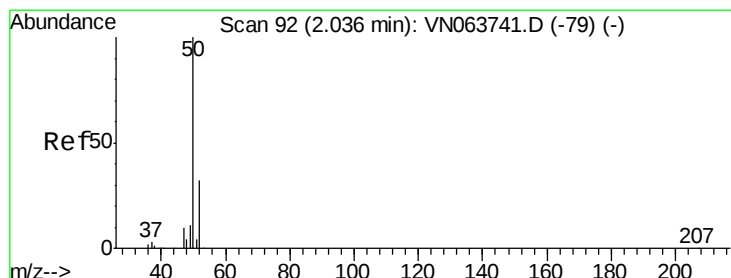
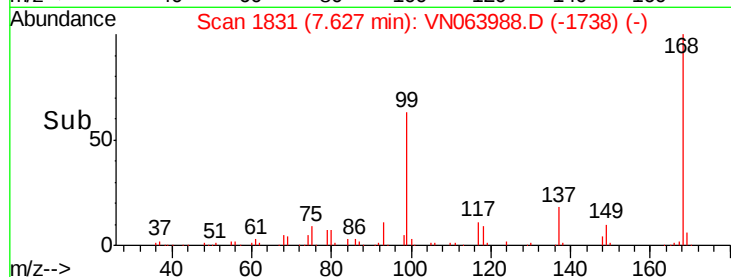
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.408 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063988.D

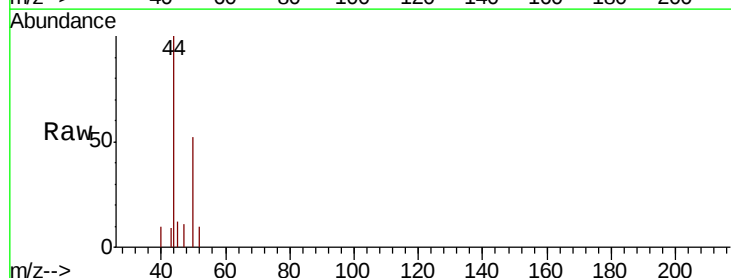
Acq: 8 Oct 2020 14:07

Tgt Ion: 50 Resp: 1285

Ion Ratio Lower Upper

50 100

52 20.3 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

1200

1000

800

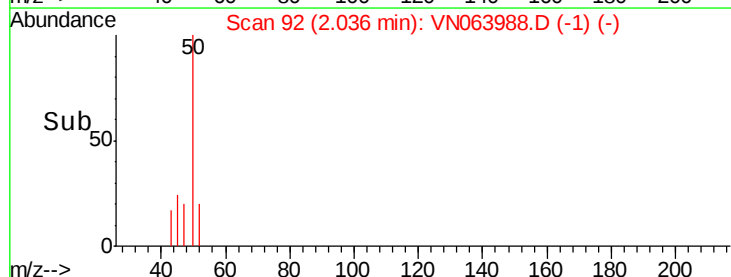
600

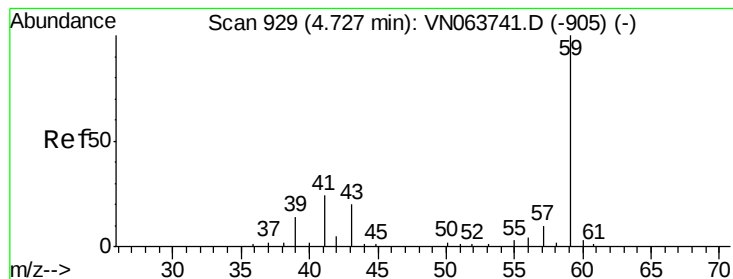
400

200

0

Time-->



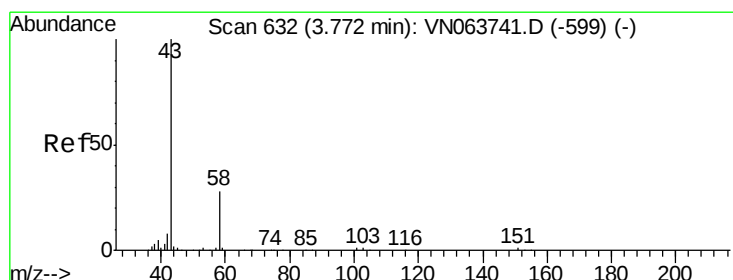
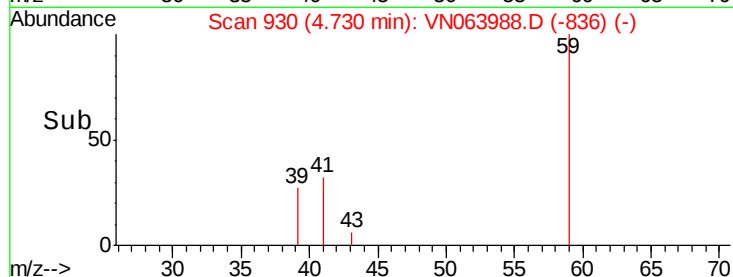
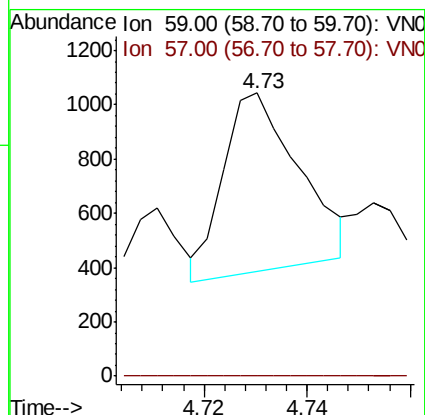
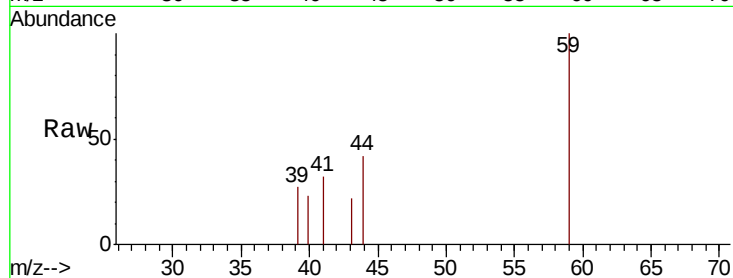


#11

Tert butyl alcohol  
 Concen: 1.452 ug/l  
 RT: 4.73 min Scan# 930  
 Delta R.T. 0.00 min  
 Lab File: VN063988.D  
 Acq: 8 Oct 2020 14:07

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 EQB-20201001

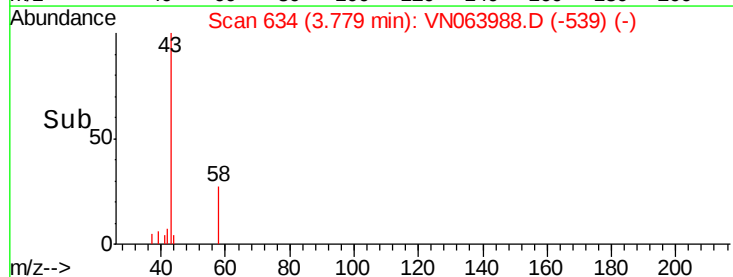
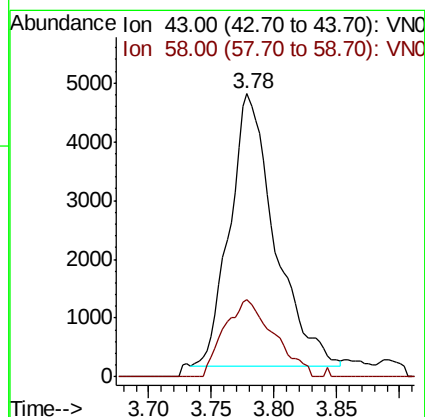
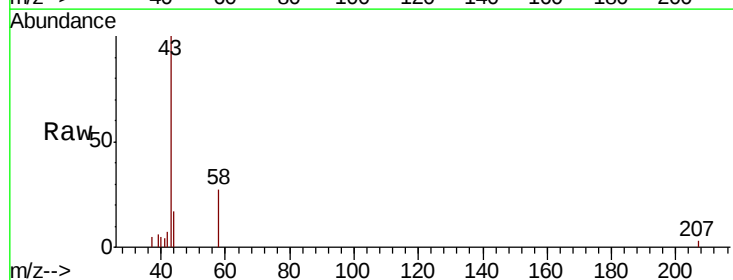
Tot Ion: 59 Resp: 673  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.7 13.1#

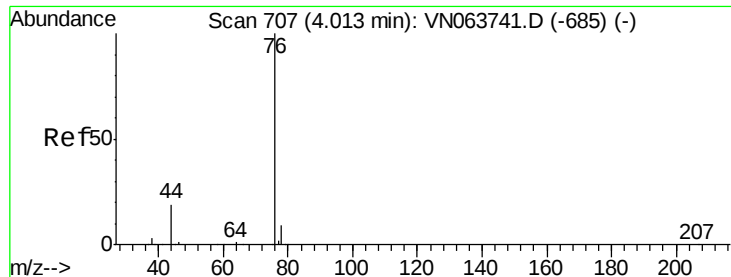


#16

Acetone  
 Concen: 8.906 ug/l  
 RT: 3.78 min Scan# 634  
 Delta R.T. 0.01 min  
 Lab File: VN063988.D  
 Acq: 8 Oct 2020 14:07

Tgt Ion: 43 Resp: 11508  
 Ion Ratio Lower Upper  
 43 100  
 58 28.5 22.3 33.5

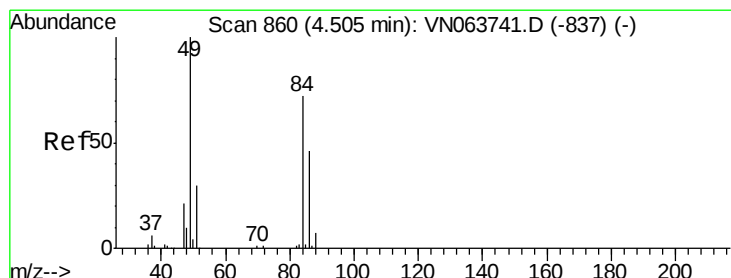
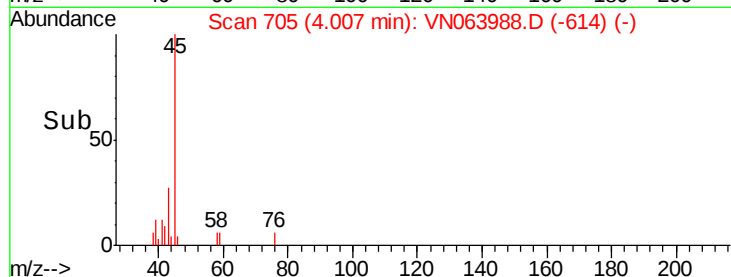
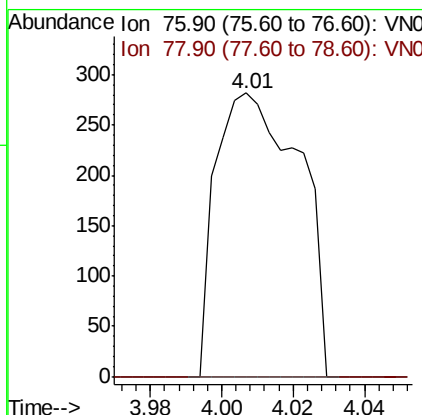
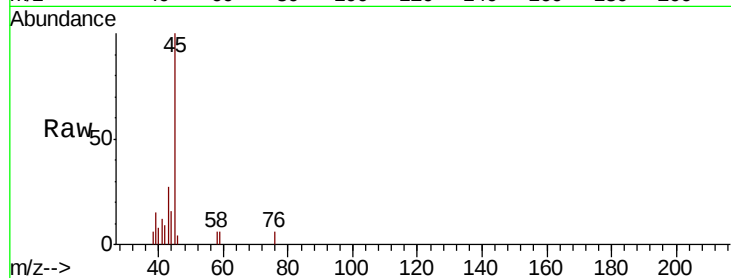




#17  
Carbon Disulfide  
Concen: 0.766 ug/l  
RT: 4.01 min Scan# 705  
Delta R.T. -0.01 min  
Lab File: VN063988.D  
Acq: 8 Oct 2020 14:07

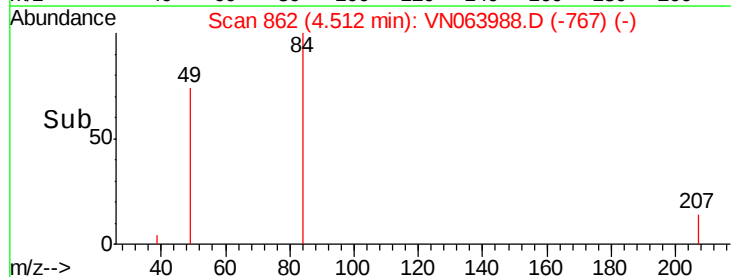
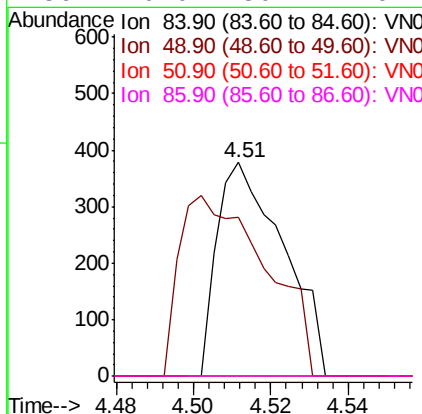
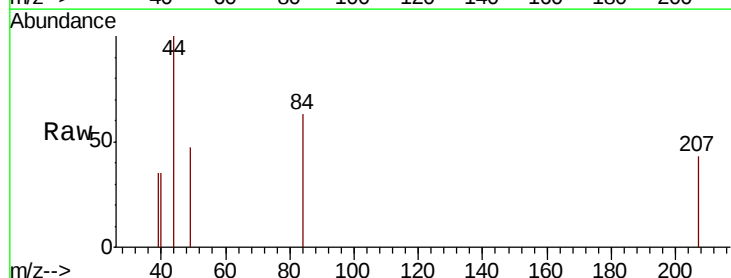
Instrument :  
MSVOA\_N  
ClientSampleId :  
EQB-20201001

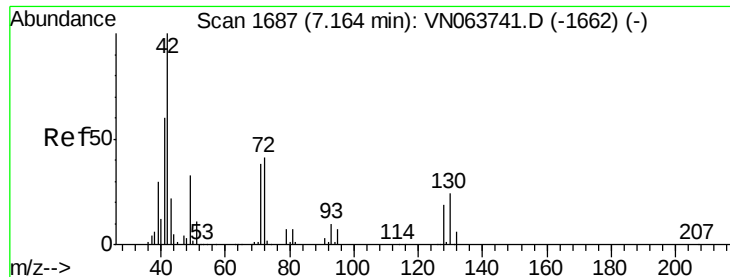
Tot Ion: 76 Resp: 457  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.4#



#20  
Methylene Chloride  
Concen: 0.250 ug/l  
RT: 4.51 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: VN063988.D  
Acq: 8 Oct 2020 14:07

Tgt Ion: 84 Resp: 451  
Ion Ratio Lower Upper  
84 100  
49 74.3 110.4 165.6#  
51 0.0 33.3 49.9#  
86 0.0 50.7 76.1#





#29

Tetrahydrofuran

Concen: 0.418 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

Instrument :

MSVOA\_N

ClientSampleId :

EQB-20201001

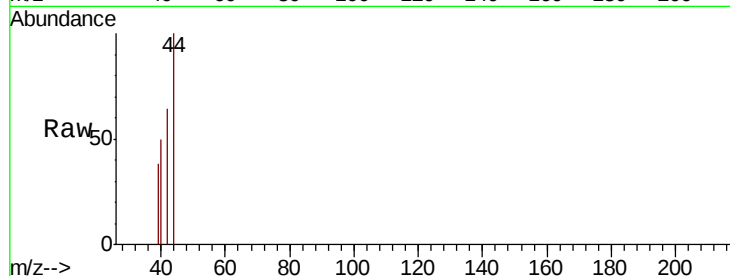
Tot Ion: 42 Resp: 513

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

800

600

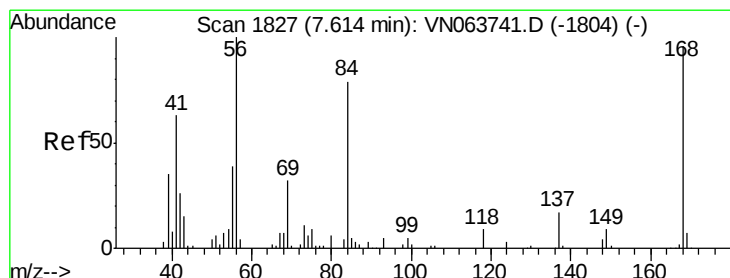
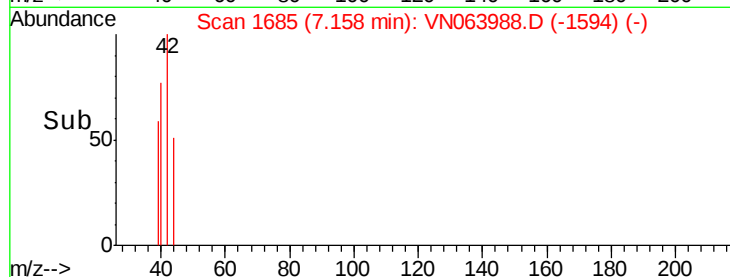
400

200

0

7.14 7.16 7.18

Time-->



#31

Cyclohexane

Concen: 1.289 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

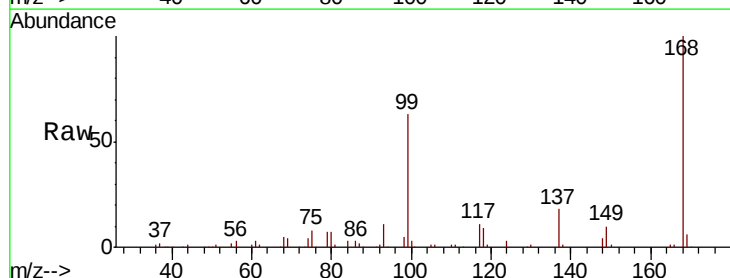
Tgt Ion: 56 Resp: 6281

Ion Ratio Lower Upper

56 100

69 154.3 25.4 38.2#

84 101.7 63.3 94.9#



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

6000

5000

4000

3000

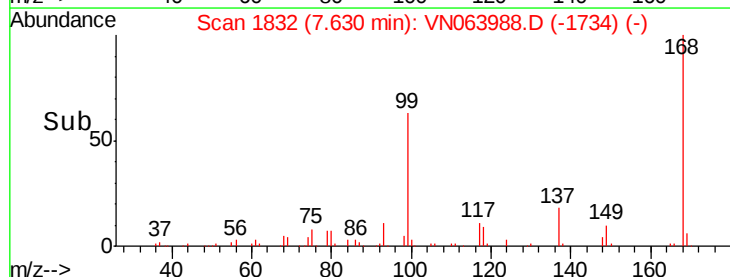
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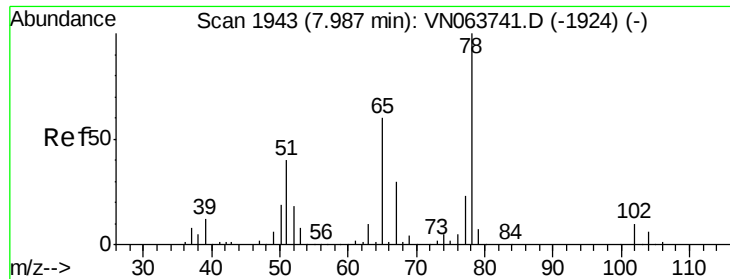
1000

0

7.55 7.60 7.65 7.70

Time-->

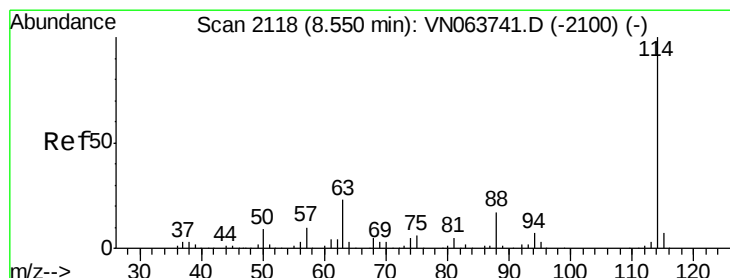
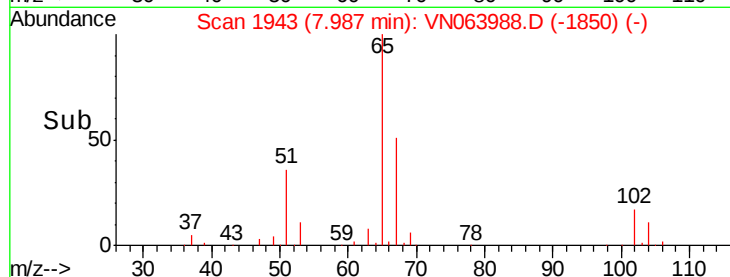
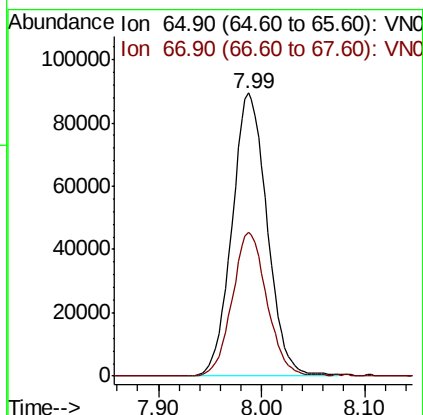
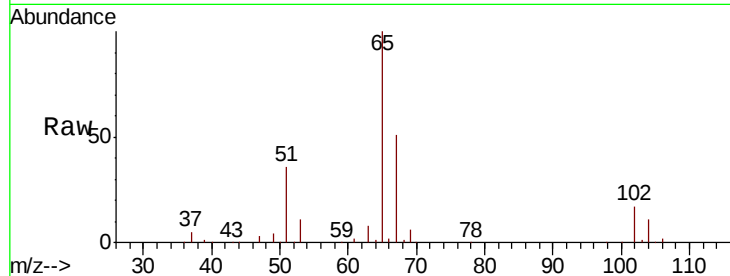




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.536 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. 0.00 min  
 Lab File: VN063988.D  
 Acq: 8 Oct 2020 14:07

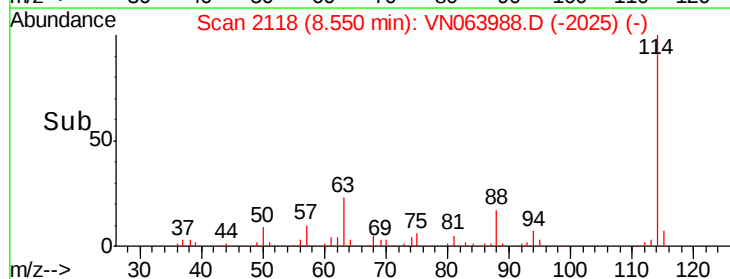
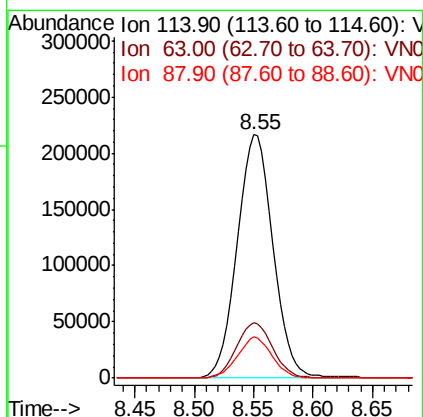
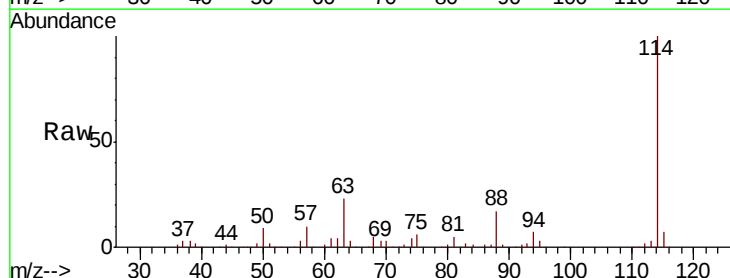
Instrument :  
 MSVOA\_N  
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 EQB-20201001

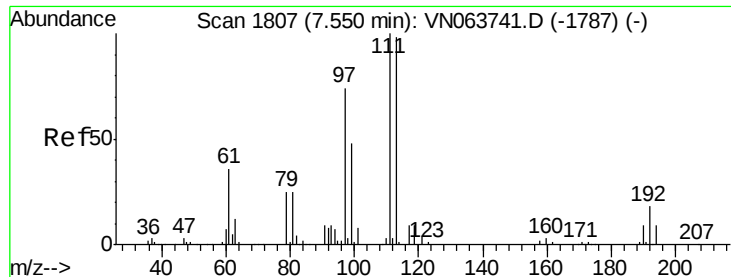
Tot Ion: 65 Resp: 212124  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 99.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN063988.D  
 Acq: 8 Oct 2020 14:07

Tgt Ion: 114 Resp: 452157  
 Ion Ratio Lower Upper  
 114 100  
 63 22.7 0.0 45.0  
 88 16.8 0.0 34.0

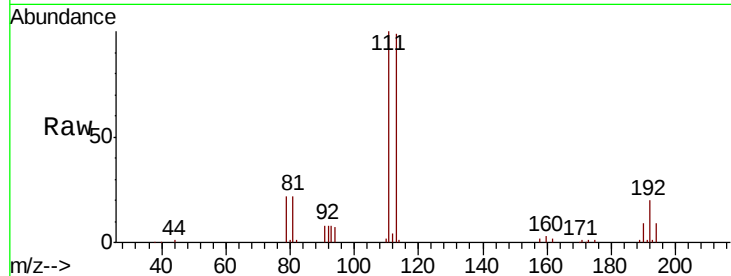




#35  
 Dibromofluoromethane  
 Concen: 49.822 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN063988.D  
 Acq: 8 Oct 2020 14:07

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EQB-20201001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 81.8  | 122.8 |
| 192     | 18.9  | 14.2  | 21.2  |

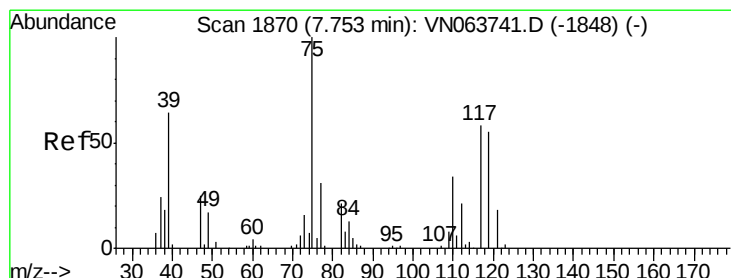
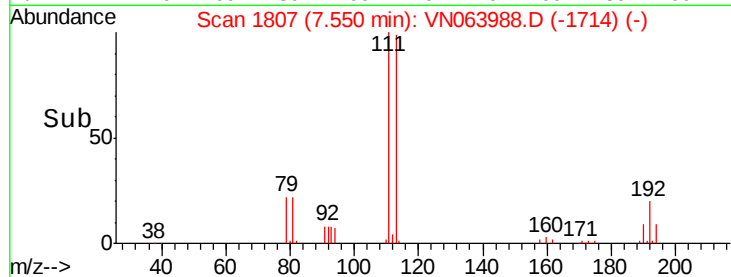
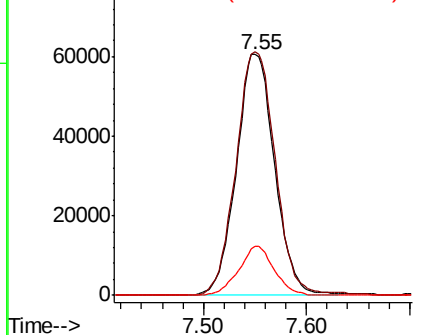


Abundance

Ion 112.80 (112.50 to 113.50): V

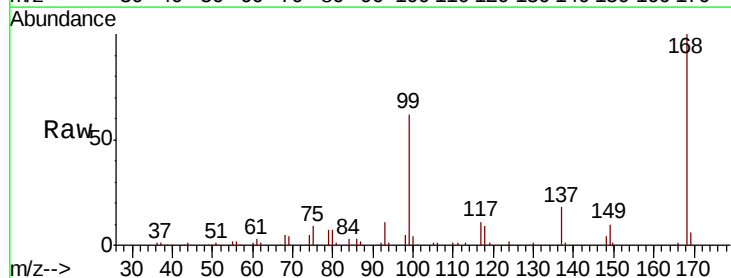
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 4.845 ug/l  
 RT: 7.62 min Scan# 1830  
 Delta R.T. -0.13 min  
 Lab File: VN063988.D  
 Acq: 8 Oct 2020 14:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.8   | 16.9  | 50.6# |
| 77      | 0.0   | 24.5  | 36.7# |

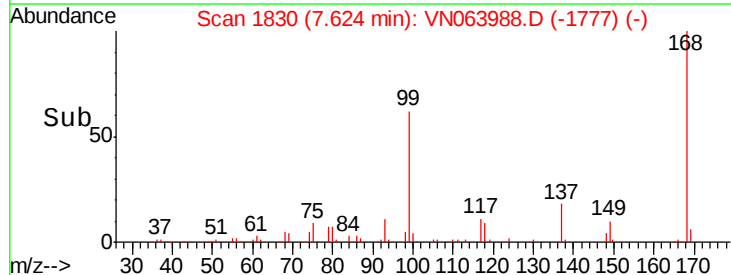
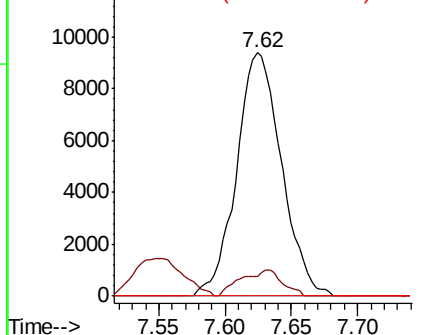


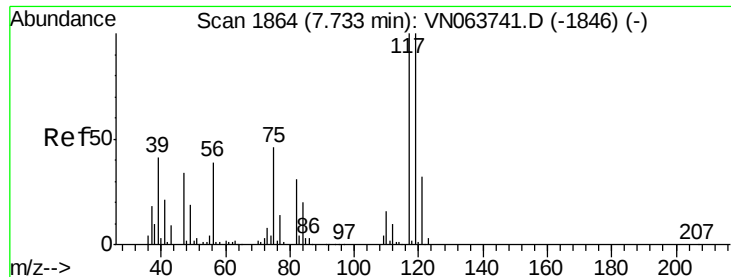
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

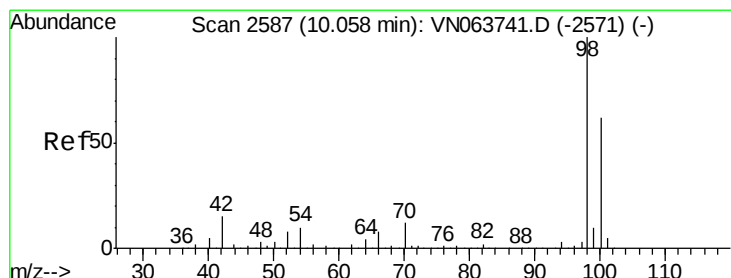
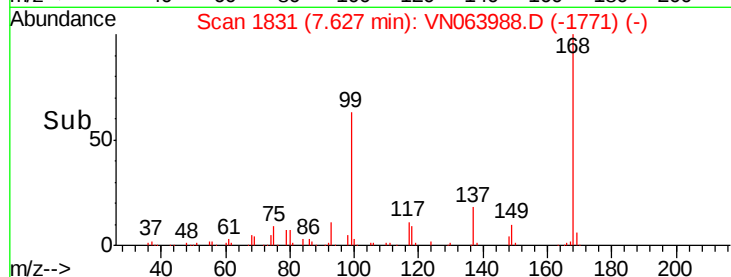
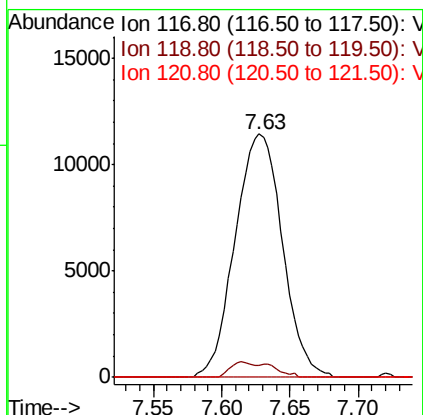
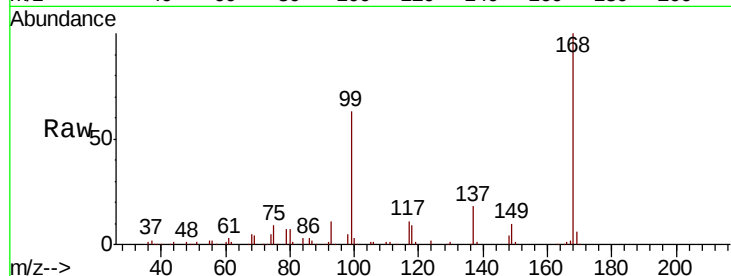




#38  
Carbon Tetrachloride  
Concen: 5.367 ug/l  
RT: 7.63 min Scan# 1831  
Delta R.T. -0.11 min  
Lab File: VN063988.D  
Acq: 8 Oct 2020 14:07

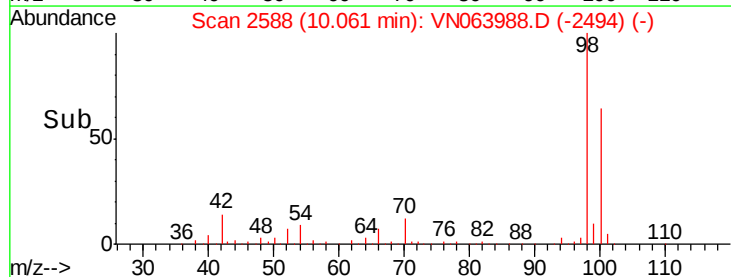
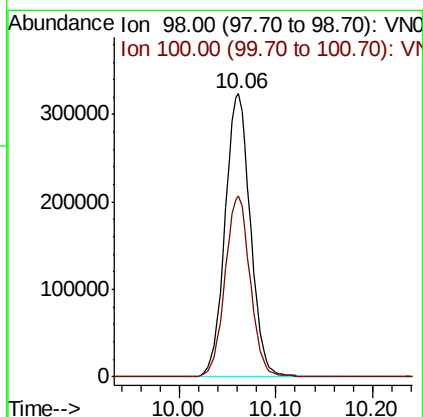
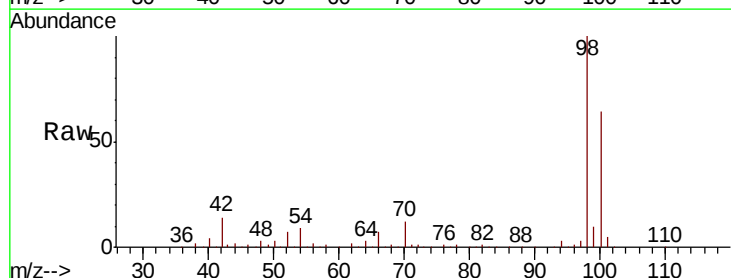
Instrument :  
MSVOA\_N  
ClientSampleId :  
EQB-20201001

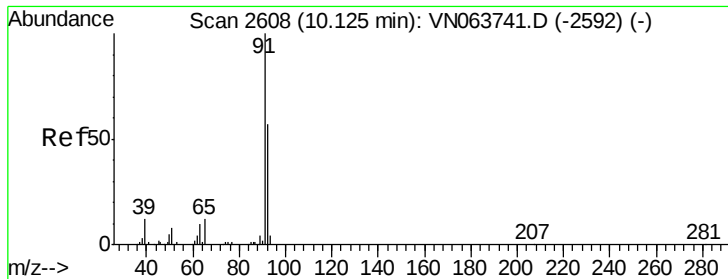
Tot Ion:117 Resp: 27570  
Ion Ratio Lower Upper  
117 100  
119 5.0 80.1 120.1#  
121 0.0 25.7 38.5#



#50  
Toluene-d8  
Concen: 49.470 ug/l  
RT: 10.06 min Scan# 2588  
Delta R.T. 0.00 min  
Lab File: VN063988.D  
Acq: 8 Oct 2020 14:07

Tgt Ion: 98 Resp: 588380  
Ion Ratio Lower Upper  
98 100  
100 63.4 49.8 74.6





#52

Toluene

Concen: 0.413 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

Instrument :

MSVOA\_N

ClientSampleId :

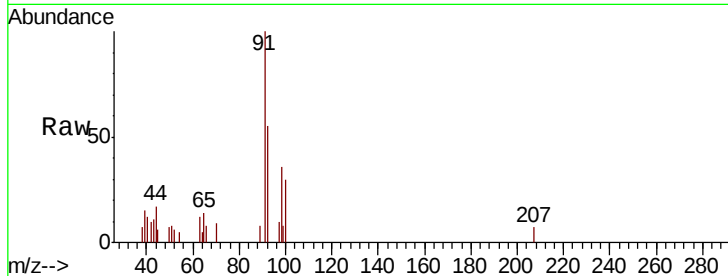
EQB-20201001

Tot Ion: 92 Resp: 3341

Ion Ratio Lower Upper

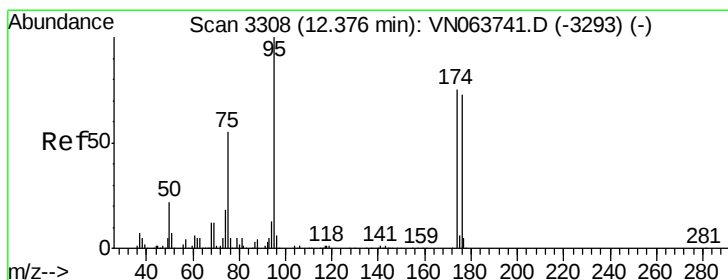
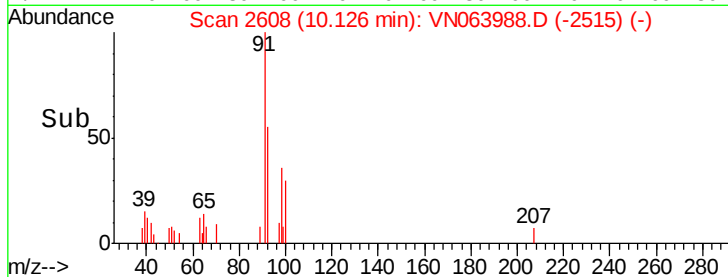
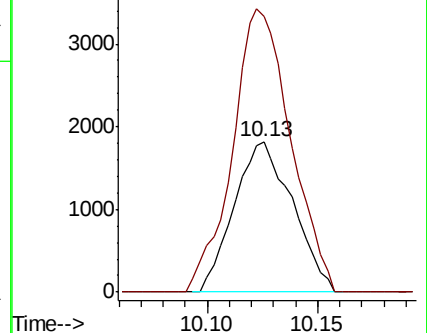
92 100

91 187.5 140.6 210.8



Abundance Ion 92.00 (91.70 to 92.70): VN063988.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN063988.D (-2592) (-)



#62

4-Bromofluorobenzene

Concen: 49.458 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

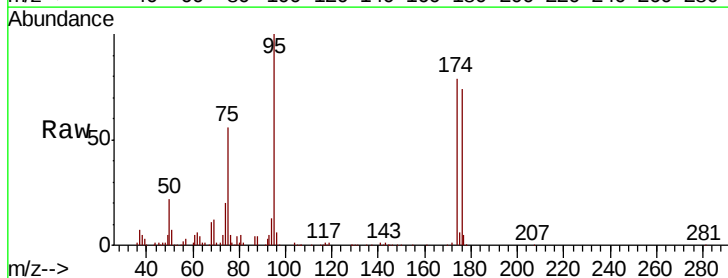
Tgt Ion: 95 Resp: 221121

Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.6

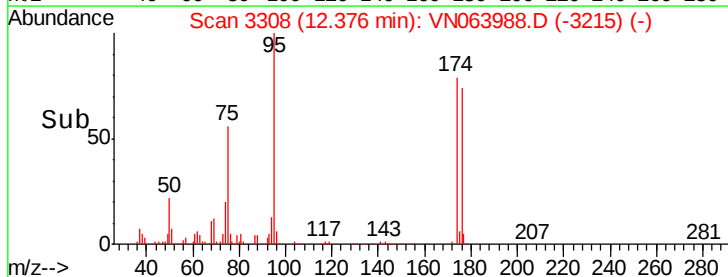
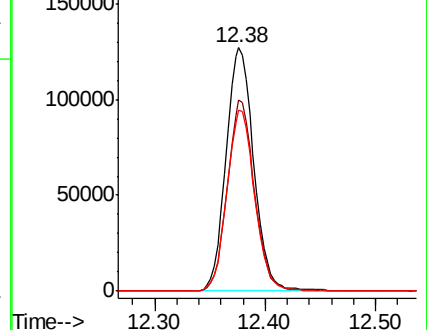
176 74.3 0.0 145.4

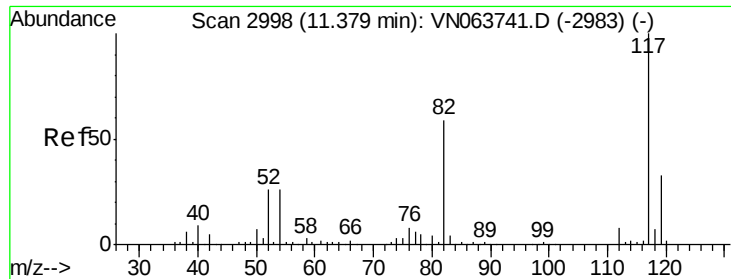


Abundance Ion 94.90 (94.60 to 95.60): VN063988.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN063988.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN063988.D (-3293) (-)

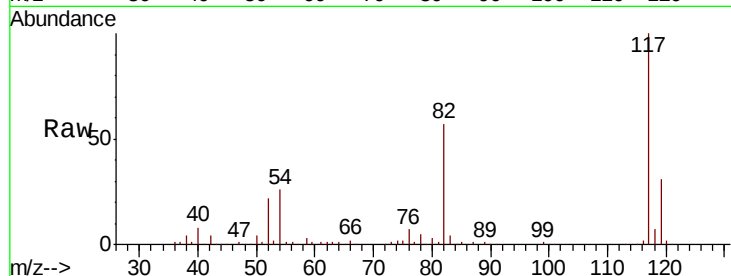




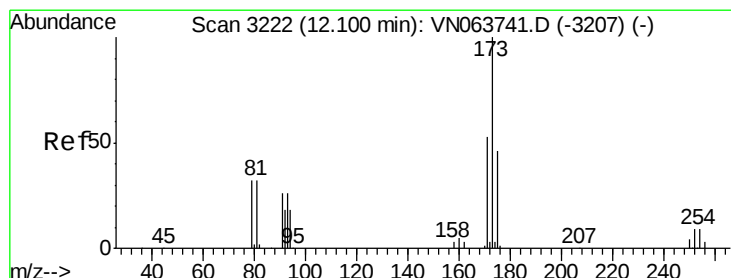
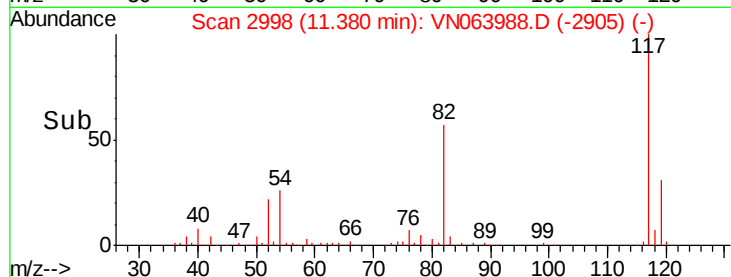
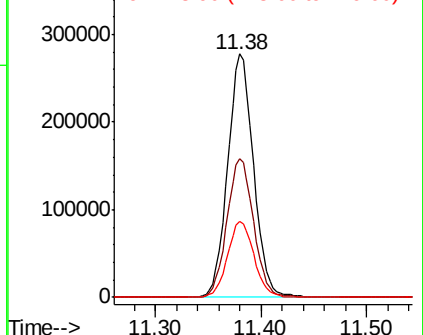
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN063988.D  
Acq: 8 Oct 2020 14:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
EQB-20201001

Tot Ion:117 Resp: 469929  
Ion Ratio Lower Upper  
117 100  
82 57.1 47.4 71.2  
119 31.0 26.4 39.6

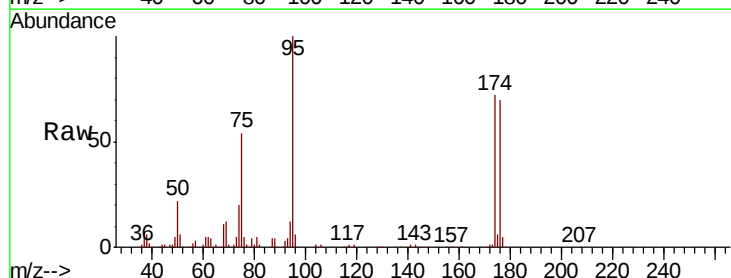


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

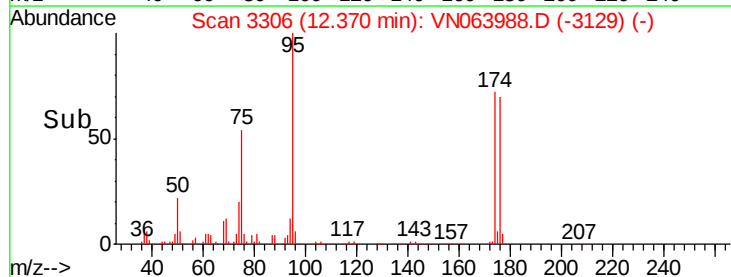
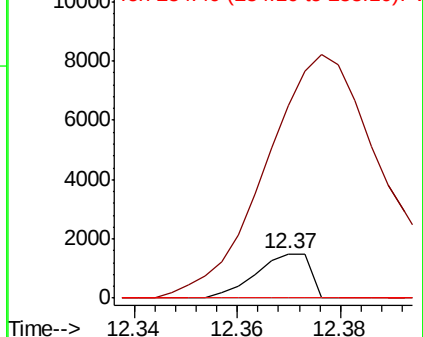


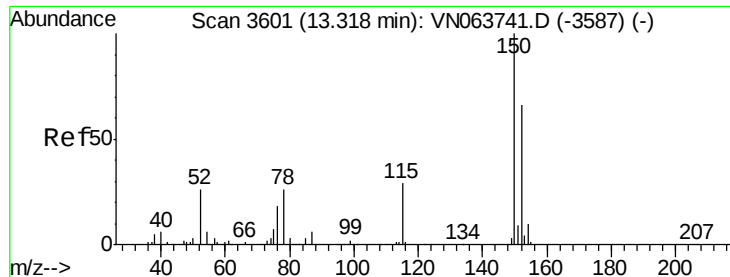
#71  
Bromoform  
Concen: 0.380 ug/l  
RT: 12.37 min Scan# 3306  
Delta R.T. 0.27 min  
Lab File: VN063988.D  
Acq: 8 Oct 2020 14:07

Tgt Ion:173 Resp: 1073  
Ion Ratio Lower Upper  
173 100  
175 995.2 23.5 70.5#  
254 0.0 0.0 0.0



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: VN063988.D

Acq: 8 Oct 2020 14:07

Instrument :

MSVOA\_N

ClientSampleId :

EQB-20201001

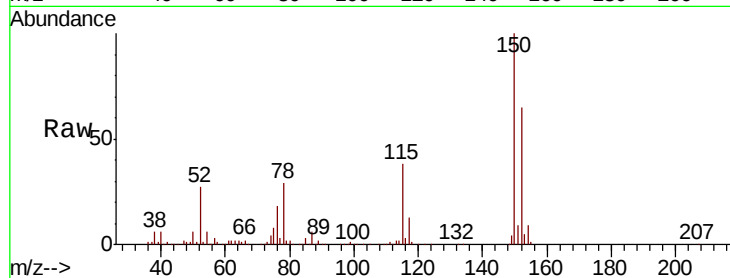
Tot Ion:152 Resp: 181107

Ion Ratio Lower Upper

152 100

115 61.1 31.3 93.8

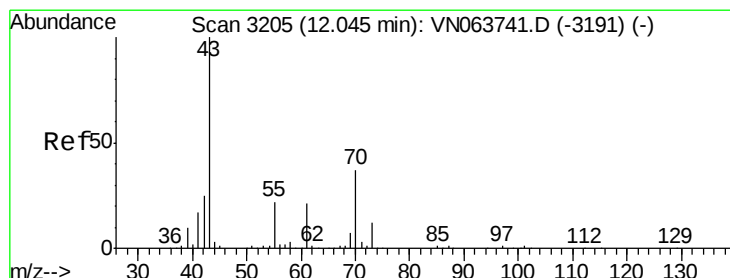
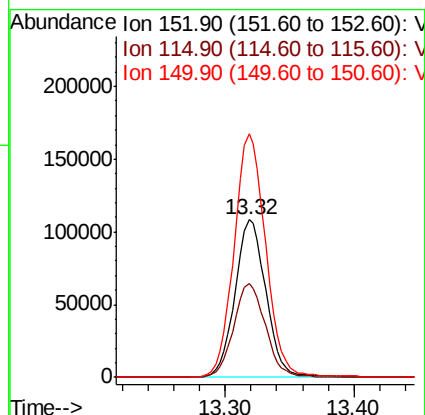
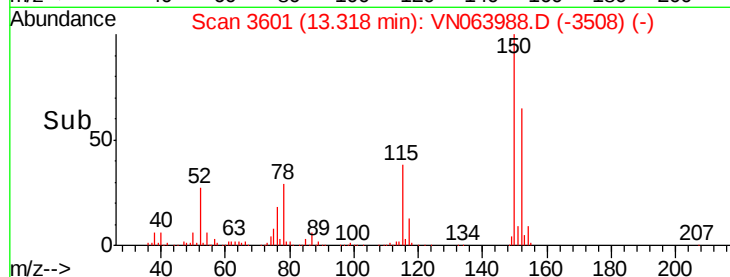
150 157.0 0.0 341.8



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



#74

N-ethyl acetate

Concen: 2.258 ug/l

RT: 12.04 min Scan# 3202

Delta R.T. -0.01 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

Tgt Ion: 43 Resp: 270

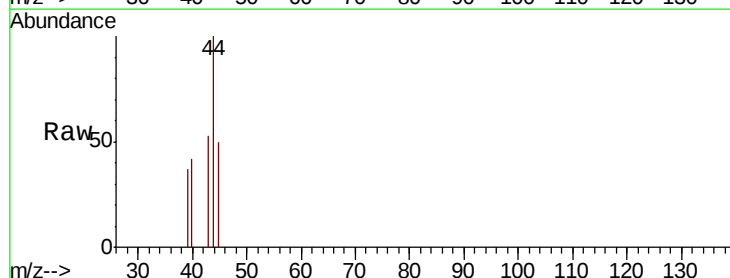
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#

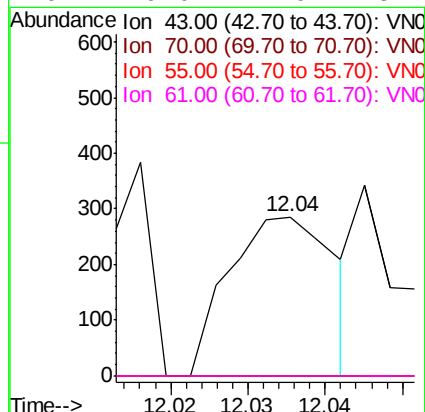
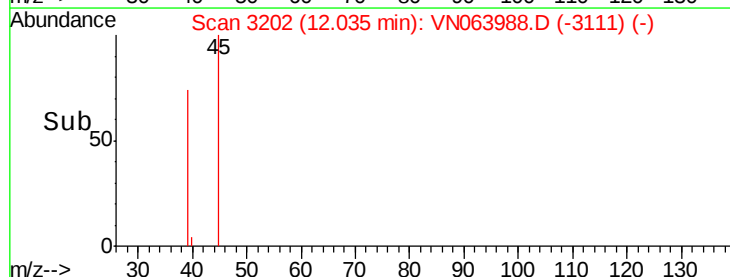


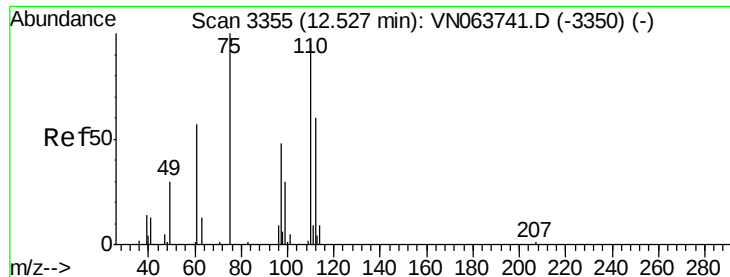
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.486 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

Instrument :

MSVOA\_N

ClientSampleId :

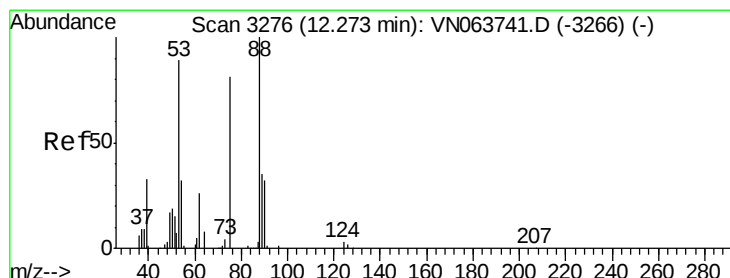
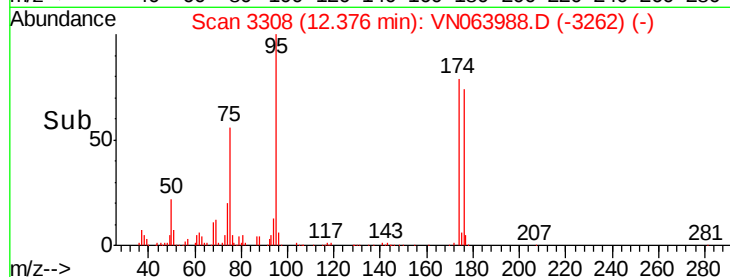
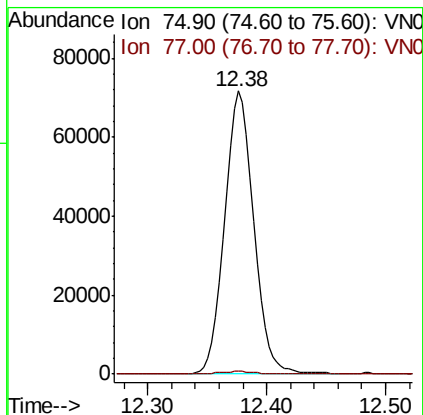
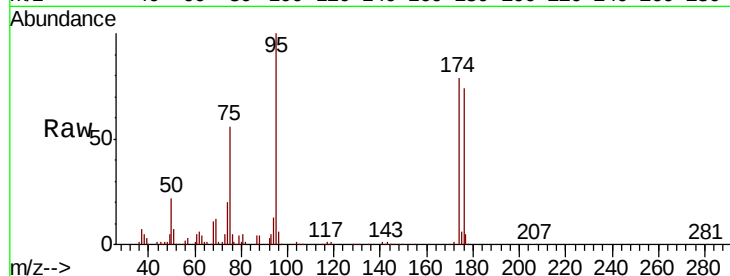
EQB-20201001

Tot Ion: 75 Resp: 121708

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 87.803 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

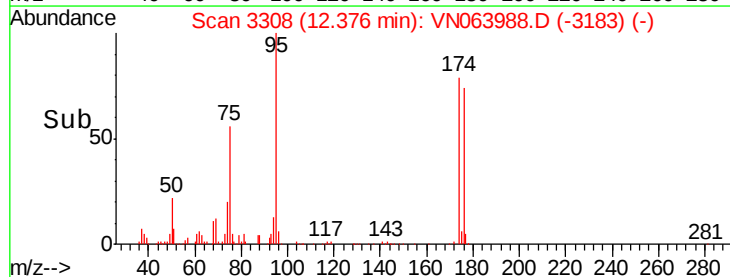
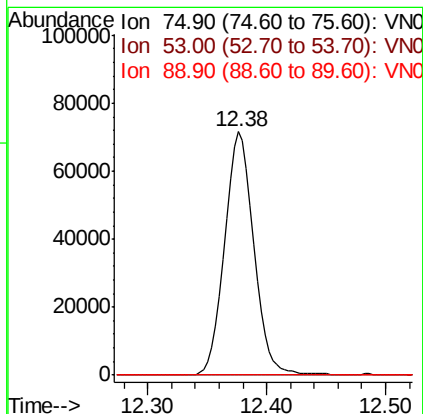
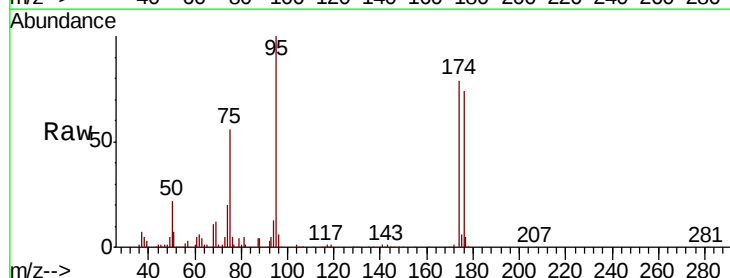
Tgt Ion: 75 Resp: 121708

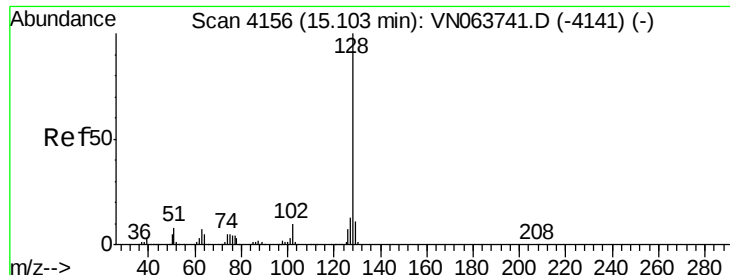
Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 1.927 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN063988.D

Acq: 8 Oct 2020 14:07

Instrument :

MSVOA\_N

ClientSampleId :

EQB-20201001

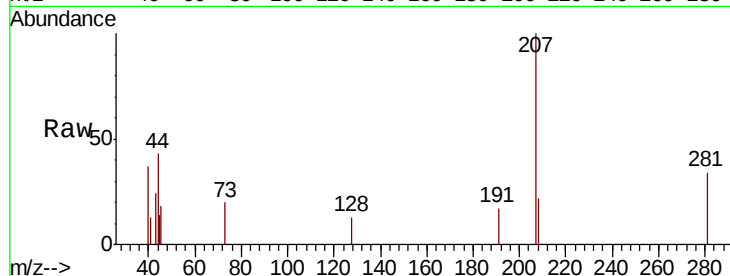
Tot Ion:128 Resp: 31

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

