

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081220\  
 Data File : VN062859.D  
 Acq On : 12 Aug 2020 15:44  
 Operator : JC/MD  
 Sample : L3666-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB179-GW-678-680

Quant Time: Aug 13 05:23:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 129055   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 220583   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 226713   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 83061    | 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   | 108955   | 51.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.10% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 76093    | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.86% |          |
| 50) Toluene-d8              | 10.06 | 98   | 287828   | 48.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.72%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 106030   | 47.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.26%  |          |

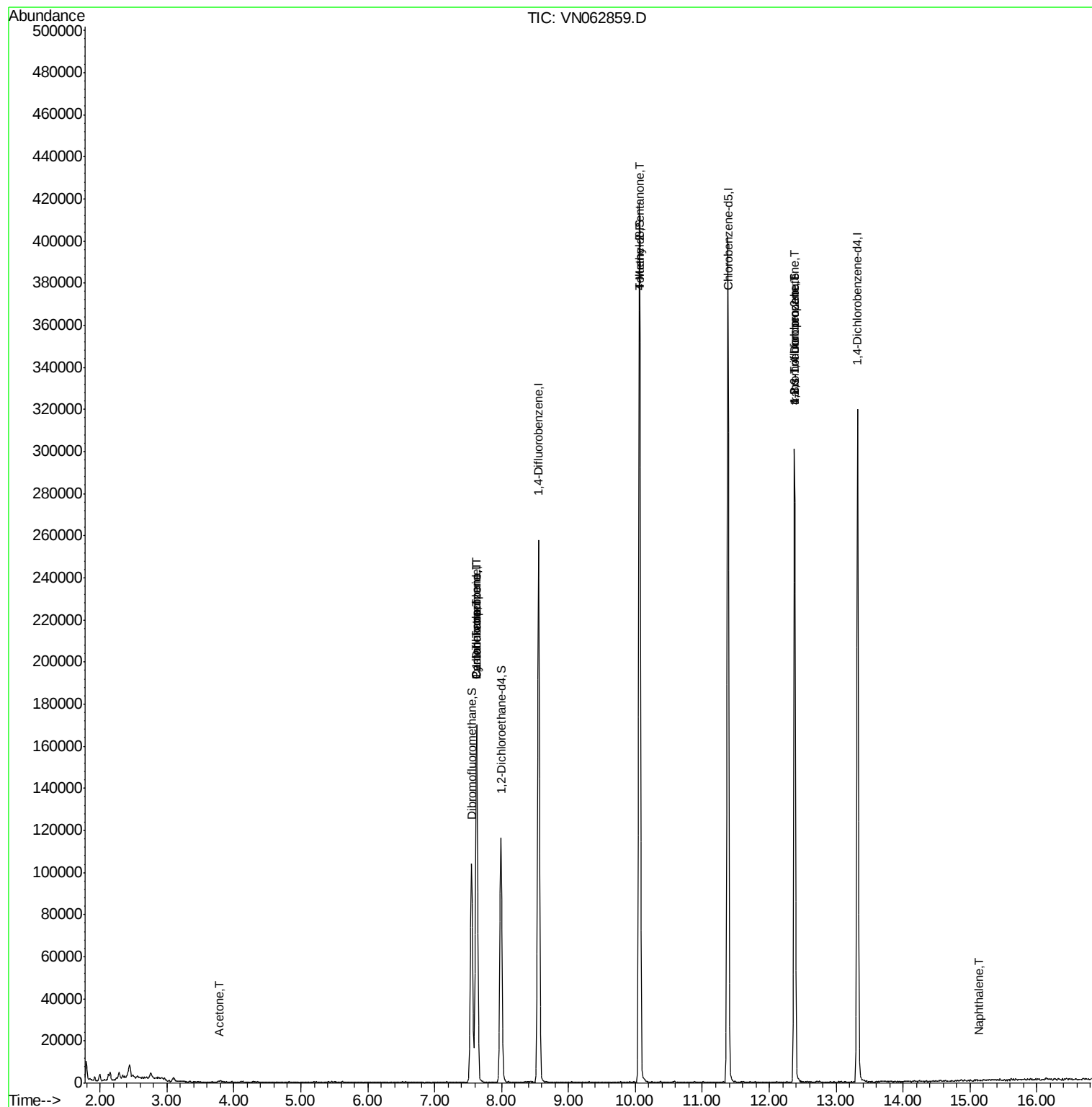
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 874      | 1.133     | ug/l # | 45     |
| 17) Carbon Disulfide           | 4.01  | 76   | 105      | Below Cal | #      | 74     |
| 18) Methyl Acetate             | 4.29  | 43   | 692      | Below Cal | #      | 52     |
| 31) Cyclohexane                | 7.63  | 56   | 3071     | 1.187     | ug/l # | 21     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 11228    | 5.228     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 14076    | 5.541     | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1369     | 0.565     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 59394    | 26.514    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 59394    | 80.941    | ug/l # | 10     |
| 95) Naphthalene                | 15.14 | 128  | 31       | 3.716     | ug/l # | 68     |

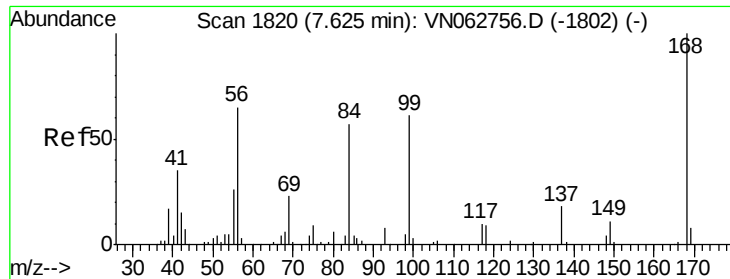
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:26:42 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

Instrument :

MSVOA\_N

ClientSampleId :

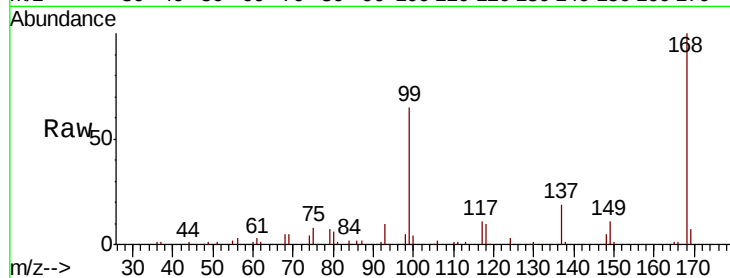
BP-VPB179-GW-678-680

Tot Ion:168 Resp: 129055

Ion Ratio Lower Upper

168 100

99 65.2 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

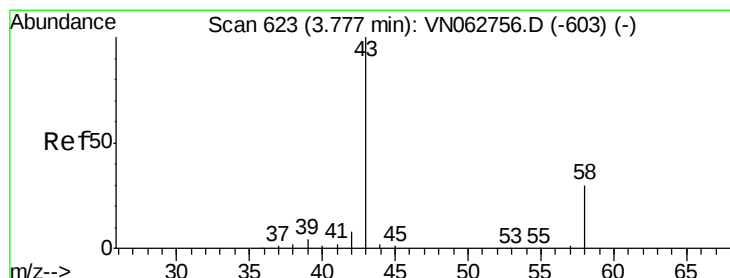
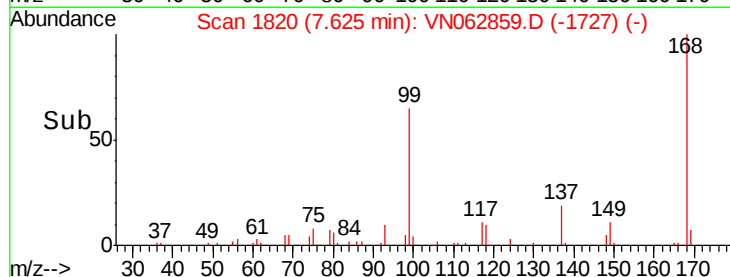
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 1.133 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062859.D

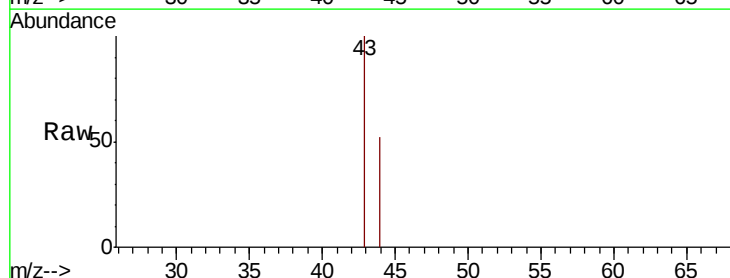
Acq: 12 Aug 2020 15:44

Tgt Ion: 43 Resp: 874

Ion Ratio Lower Upper

43 100

58 0.0 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

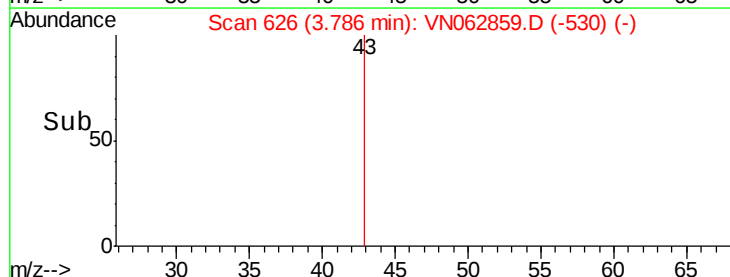
600

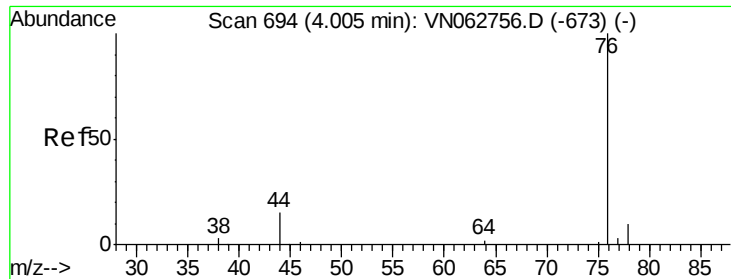
400

200

0

Time--> 3.74 3.76 3.78 3.80

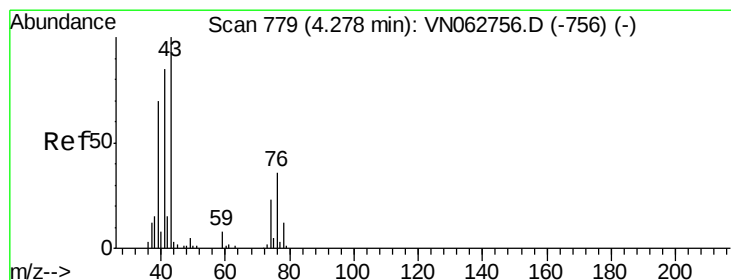
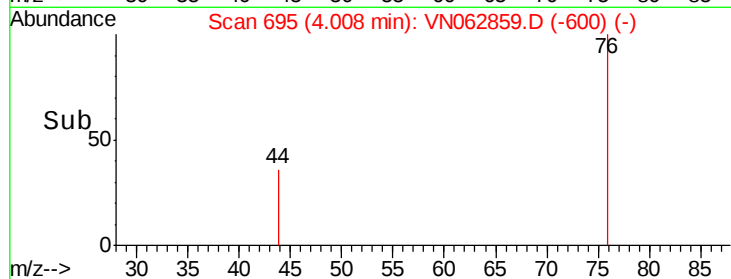
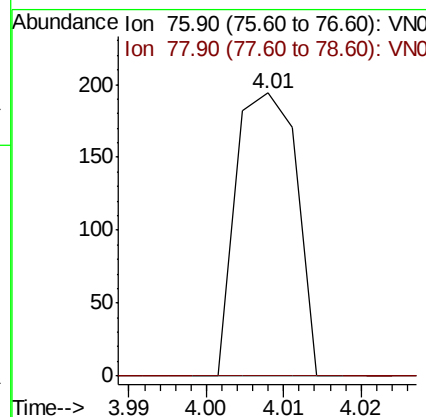
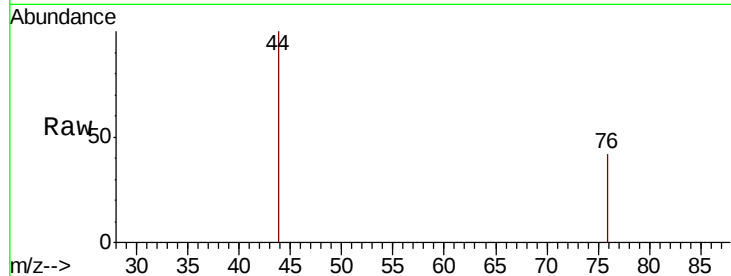




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.01 min Scan# 695  
Delta R.T. 0.00 min  
Lab File: VN062859.D  
Acq: 12 Aug 2020 15:44

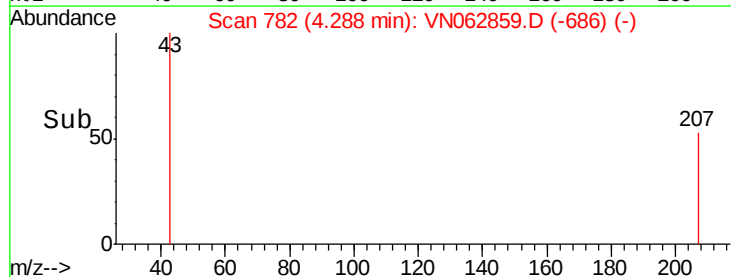
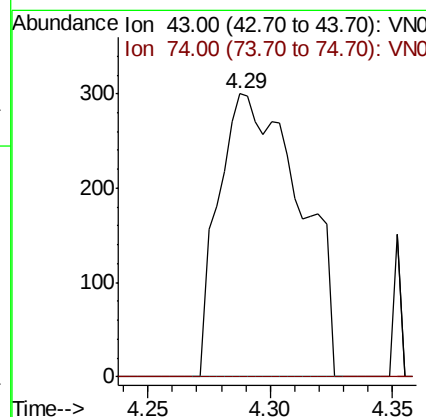
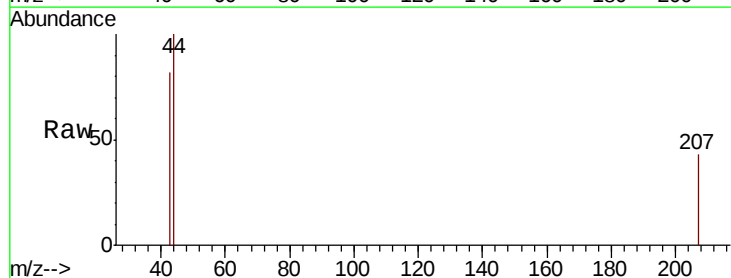
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB179-GW-678-680

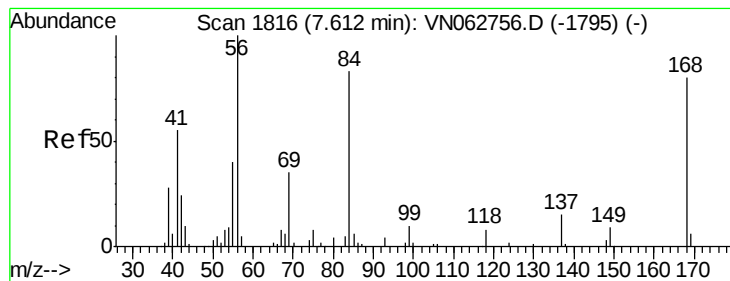
Tot Ion: 76 Resp: 105  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.7 11.5#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.29 min Scan# 782  
Delta R.T. 0.01 min  
Lab File: VN062859.D  
Acq: 12 Aug 2020 15:44

Tgt Ion: 43 Resp: 692  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 28.0#





#31

Cyclohexane

Concen: 1.187 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB179-GW-678-680

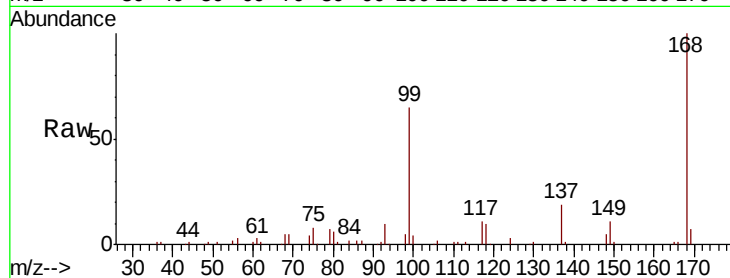
Tot Ion: 56 Resp: 3071

Ion Ratio Lower Upper

56 100

69 184.2 28.1 42.1#

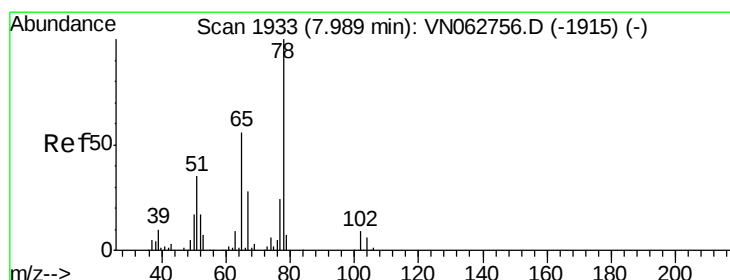
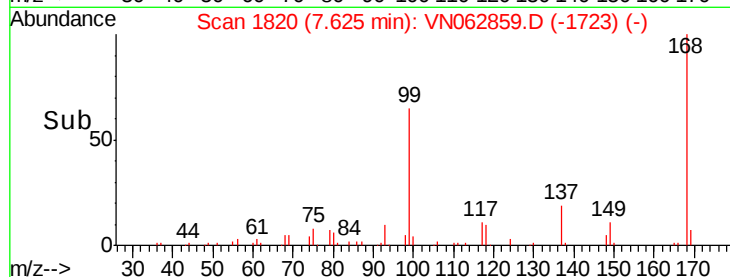
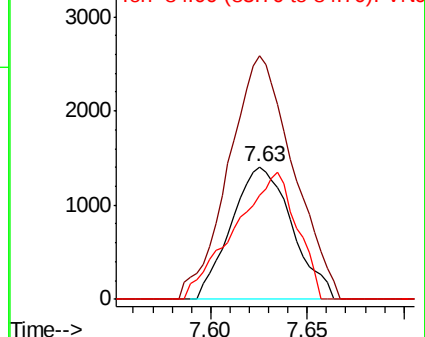
84 79.2 66.8 100.2



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: 51.053 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062859.D

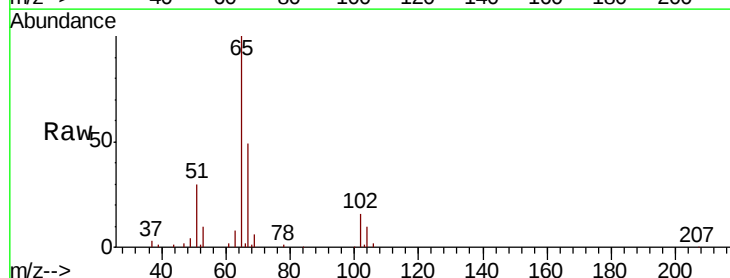
Acq: 12 Aug 2020 15:44

Tgt Ion: 65 Resp: 108955

Ion Ratio Lower Upper

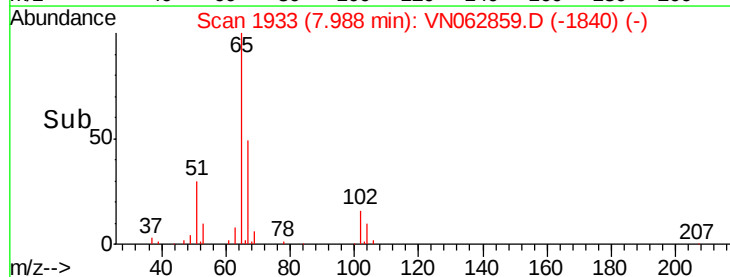
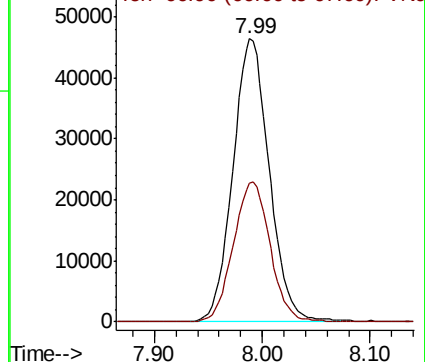
65 100

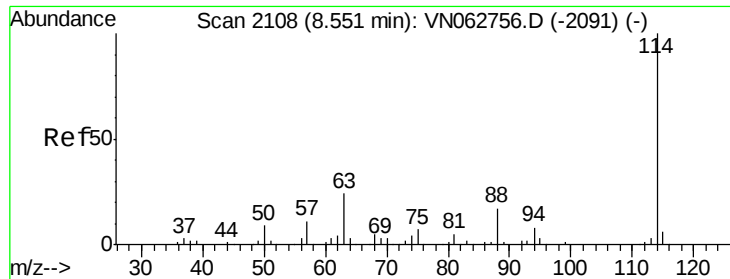
67 49.9 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

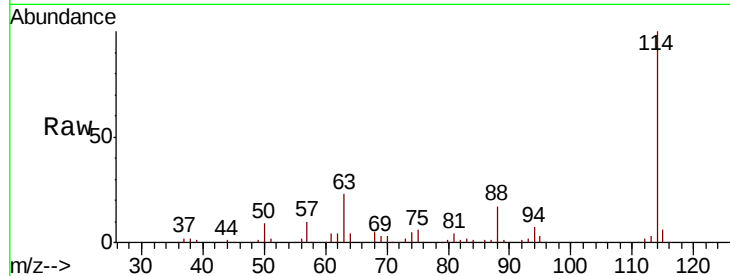




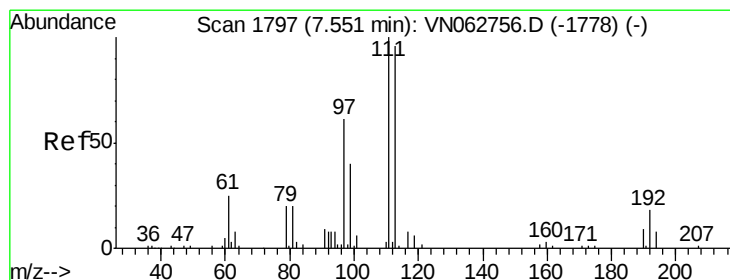
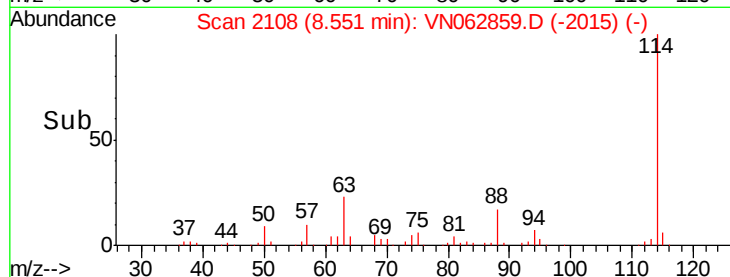
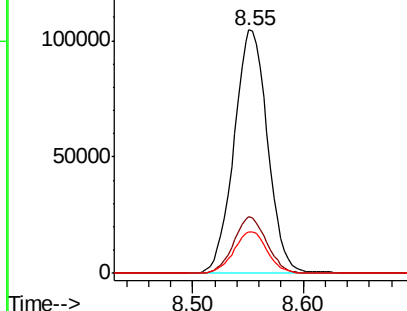
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN062859.D  
 Acq: 12 Aug 2020 15:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB179-GW-678-680

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.1  | 0.0   | 47.6  |
| 88      | 17.2  | 0.0   | 34.4  |

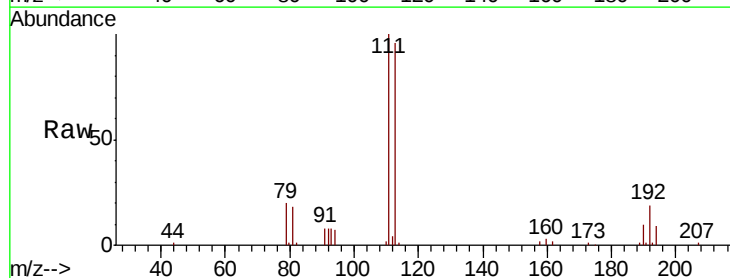


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VNO  
 Ion 87.90 (87.60 to 88.60): VNO

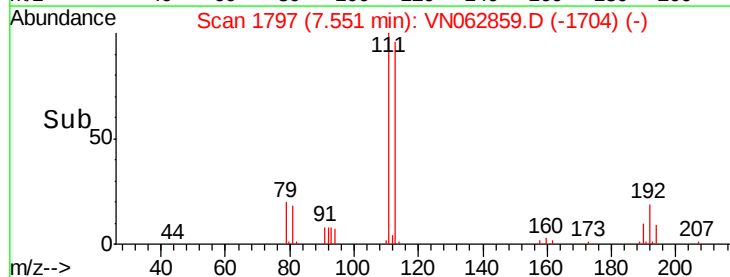
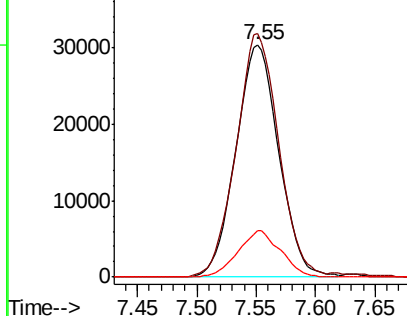


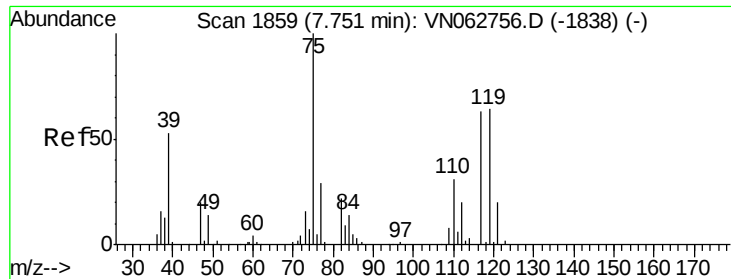
#35  
 Dibromofluoromethane  
 Concen: 50.429 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. -0.00 min  
 Lab File: VN062859.D  
 Acq: 12 Aug 2020 15:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.8 | 81.8  | 122.6 |
| 192     | 19.7  | 15.0  | 22.4  |



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: 5.228 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.12 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB179-GW-678-680

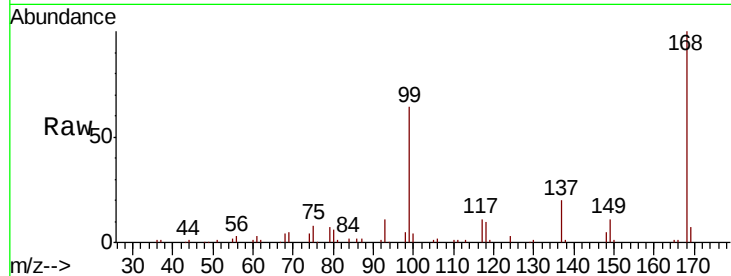
Tot Ion: 75 Resp: 11228

Ion Ratio Lower Upper

75 100

110 5.8 15.6 46.7#

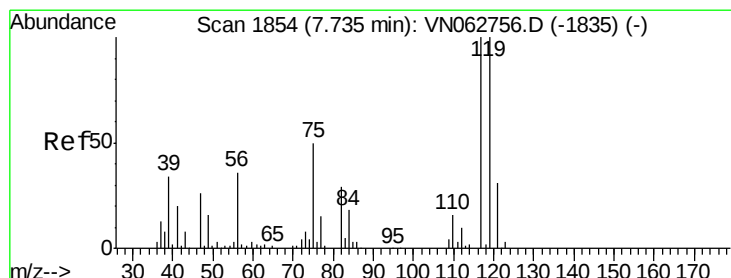
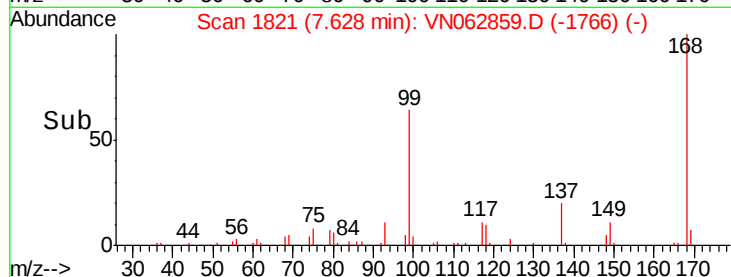
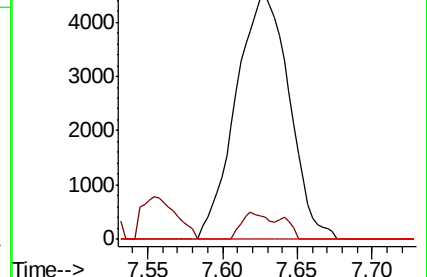
77 0.0 24.1 36.1#



Abundance Ion 74.90 (74.60 to 75.60): VN062756.D (-1838) (-)

Ion 109.90 (109.60 to 110.60): VN062756.D (-1838) (-)

Ion 76.90 (76.60 to 77.60): VN062756.D (-1838) (-)



#38

Carbon Tetrachloride

Concen: 5.541 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

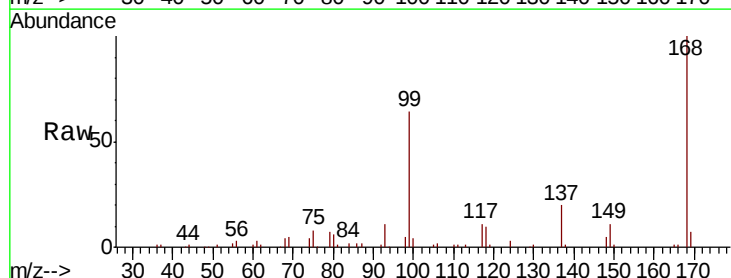
Tgt Ion: 117 Resp: 14076

Ion Ratio Lower Upper

117 100

119 4.4 79.4 119.2#

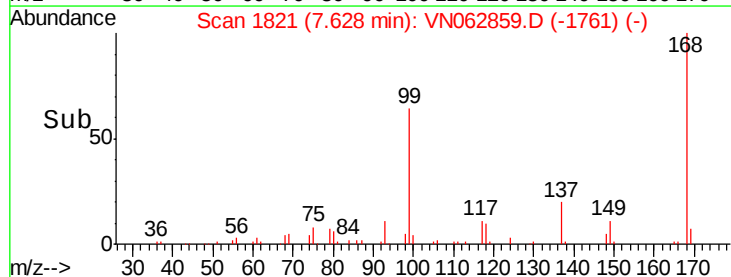
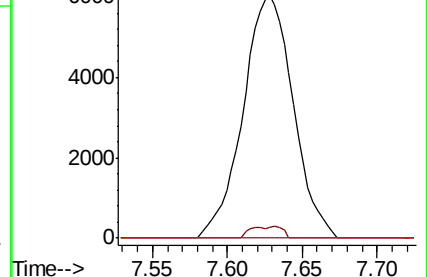
121 0.0 24.9 37.3#

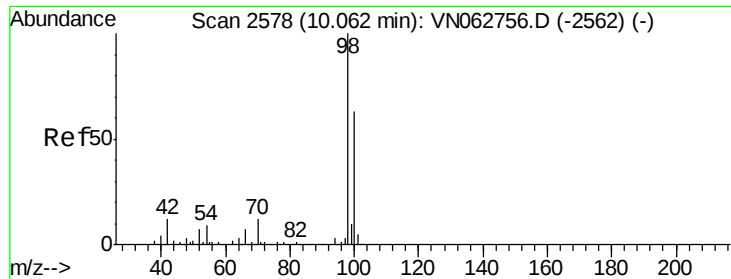


Abundance Ion 116.80 (116.50 to 117.50): VN062756.D (-1835) (-)

Ion 118.80 (118.50 to 119.50): VN062756.D (-1835) (-)

Ion 120.80 (120.50 to 121.50): VN062756.D (-1835) (-)

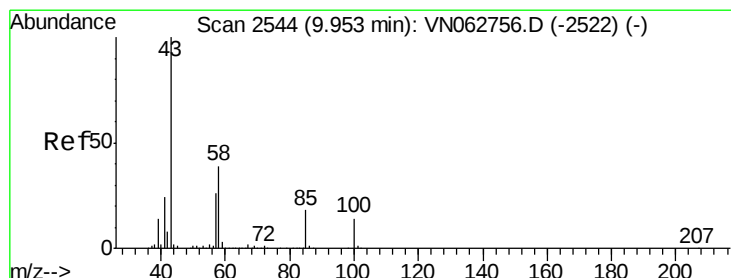
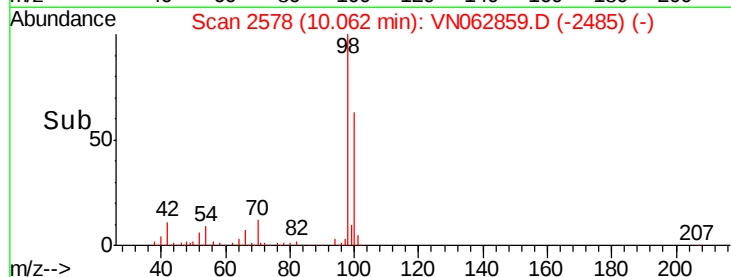
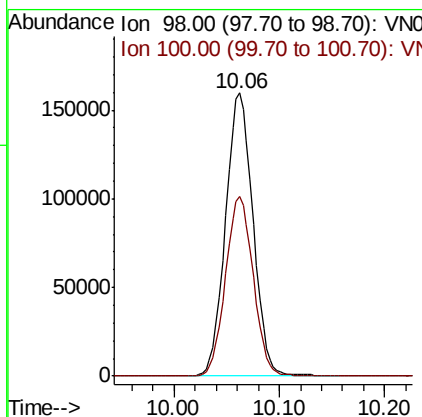
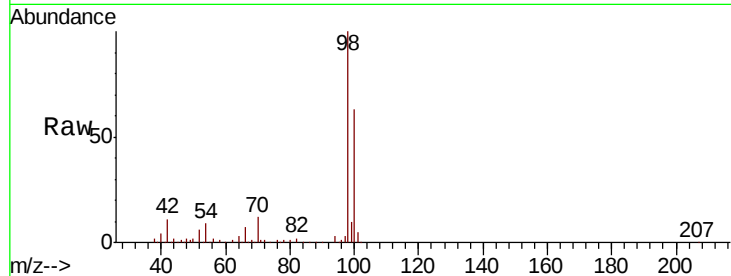




#50  
Toluene-d8  
Concen: 48.860 ug/l  
RT: 10.06 min Scan# 2578  
Delta R.T. -0.00 min  
Lab File: VN062859.D  
Acq: 12 Aug 2020 15:44

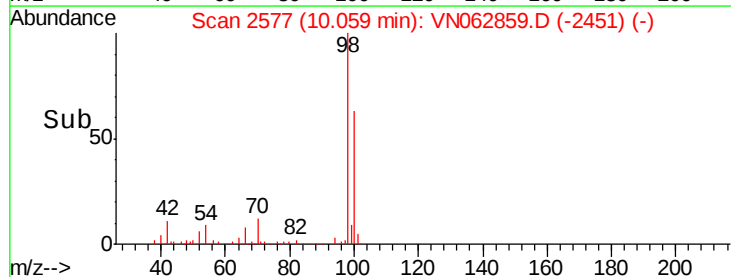
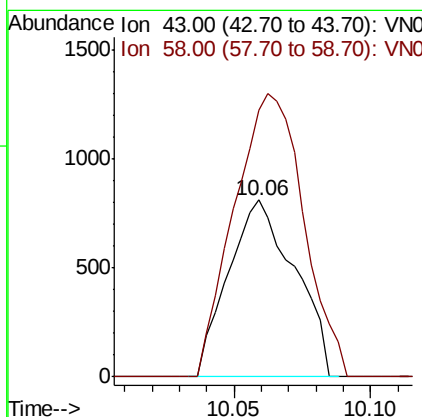
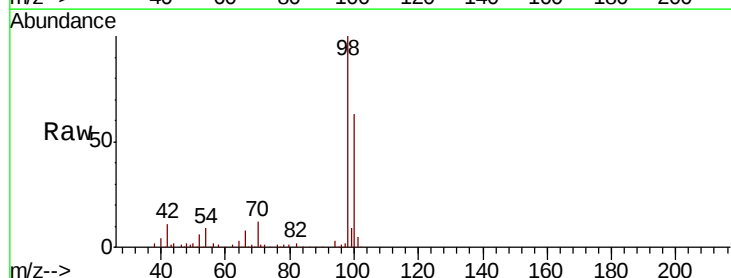
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB179-GW-678-680

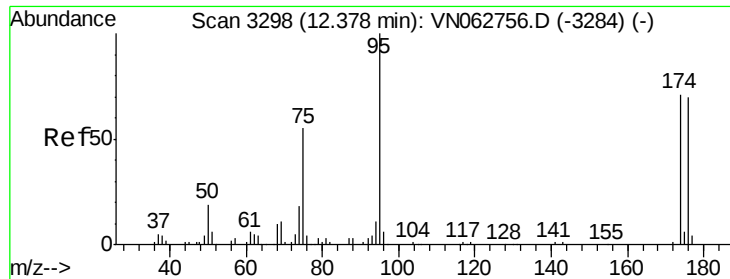
Tot Ion: 98 Resp: 287828  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.9 76.3



#51  
4-Methyl-2-Pentanone  
Concen: 0.565 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. 0.11 min  
Lab File: VN062859.D  
Acq: 12 Aug 2020 15:44

Tgt Ion: 43 Resp: 1369  
Ion Ratio Lower Upper  
43 100  
58 167.5 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 47.629 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB179-GW-678-680

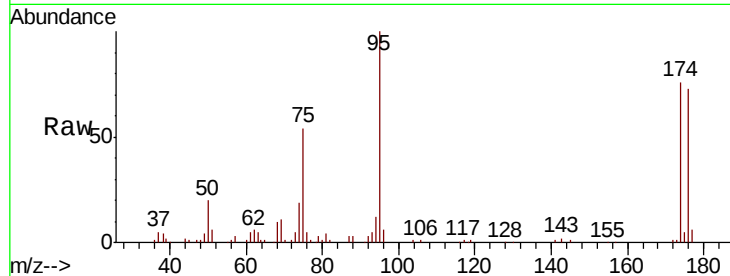
Tot Ion: 95 Resp: 106030

Ion Ratio Lower Upper

95 100

174 76.5 0.0 144.8

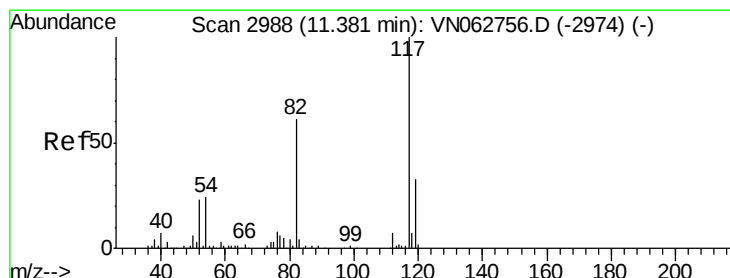
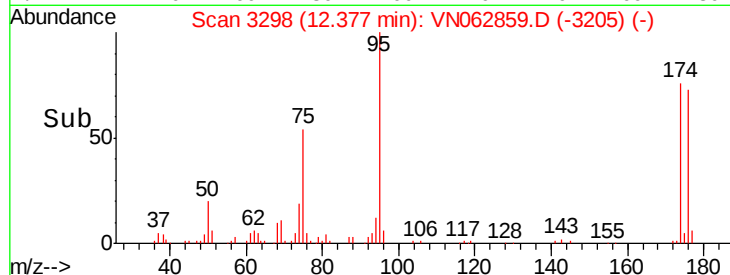
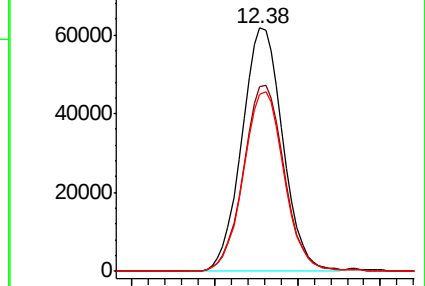
176 73.8 0.0 142.2



Abundance Ion 94.90 (94.60 to 95.60): VN062756.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062756.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062756.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

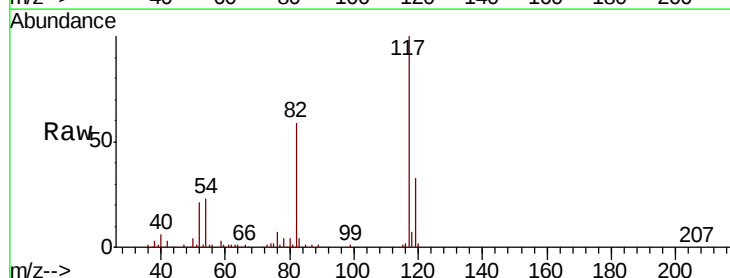
Tgt Ion: 117 Resp: 226713

Ion Ratio Lower Upper

117 100

82 59.2 49.0 73.4

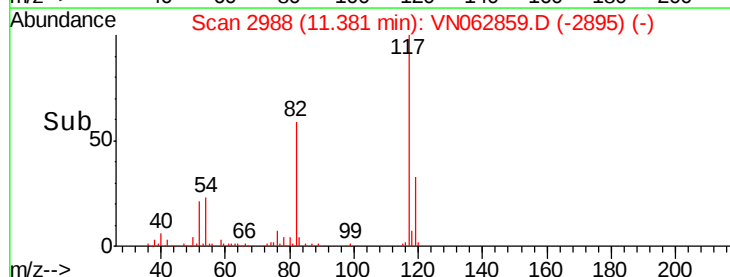
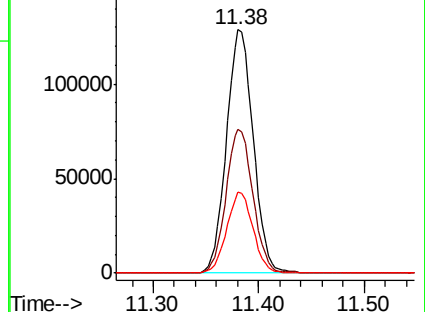
119 33.1 26.2 39.2

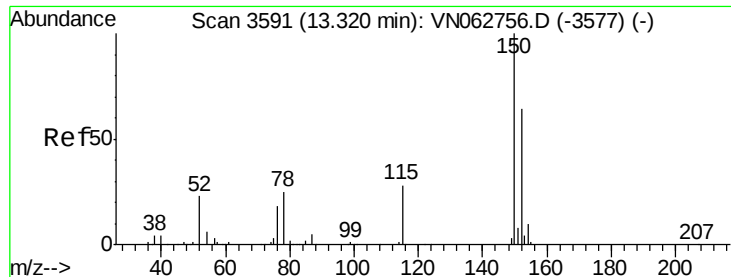


Abundance Ion 116.90 (116.60 to 117.60): VN062756.D (-2974) (-)

Ion 82.00 (81.70 to 82.70): VN062756.D (-2974) (-)

Ion 118.90 (118.60 to 119.60): VN062756.D (-2974) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB179-GW-678-680

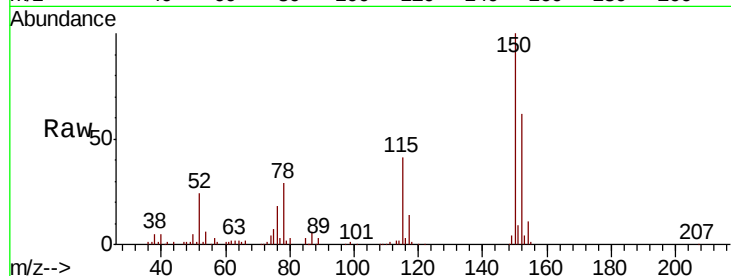
Tot Ion:152 Resp: 83061

Ion Ratio Lower Upper

152 100

115 65.1 31.6 94.8

150 160.2 0.0 349.2

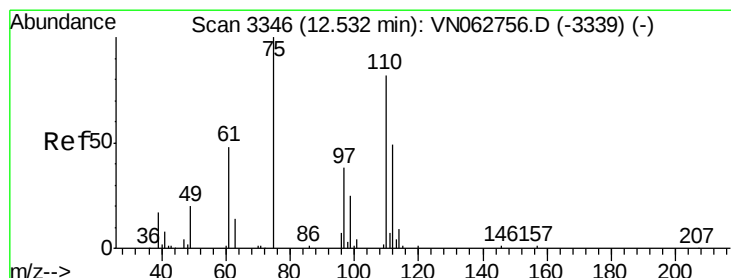
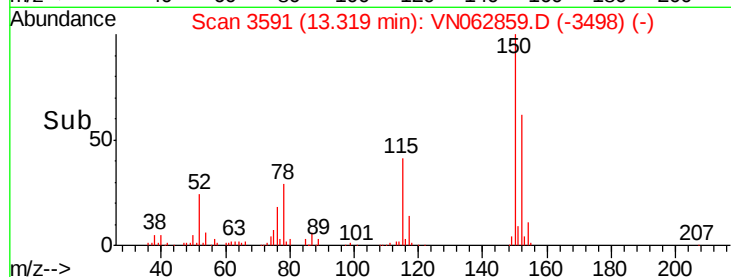
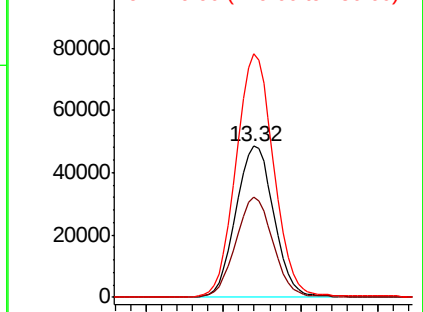


Abundance

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: 26.514 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062859.D

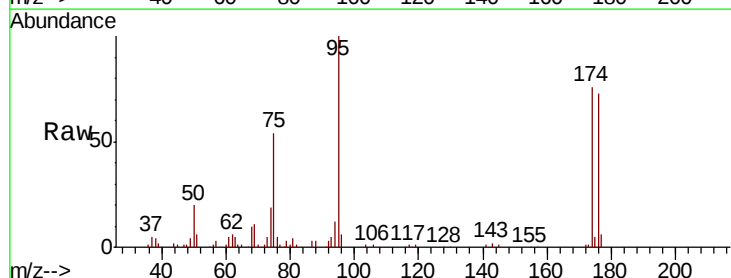
Acq: 12 Aug 2020 15:44

Tgt Ion: 75 Resp: 59394

Ion Ratio Lower Upper

75 100

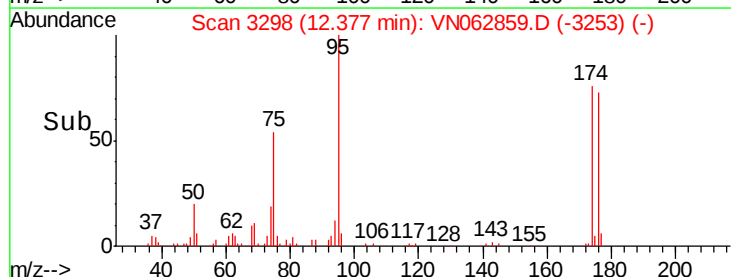
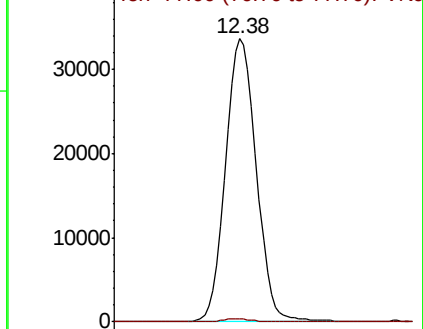
77 0.9 0.0 0.0#

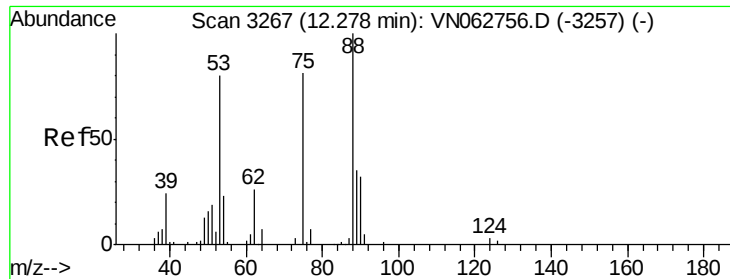


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 80.941 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB179-GW-678-680

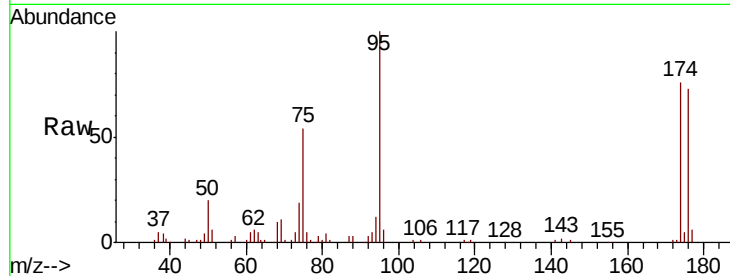
Tot Ion: 75 Resp: 59394

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

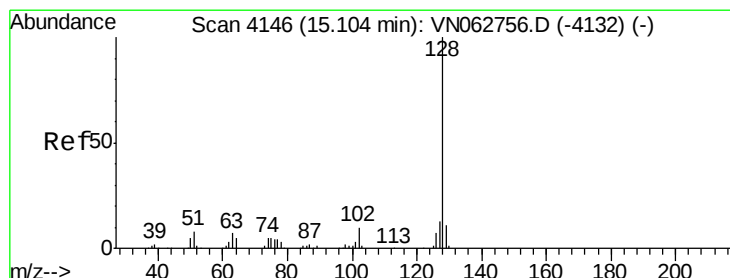
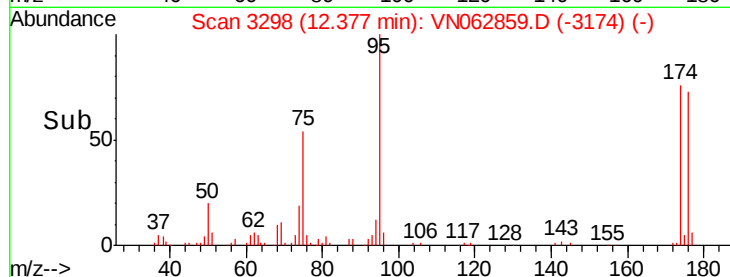
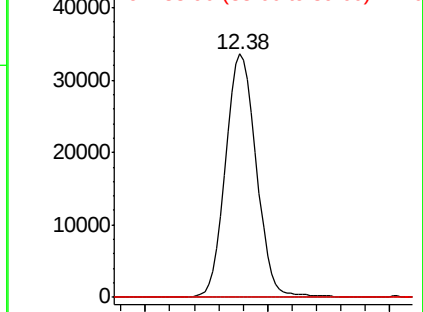
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN062756.D (-3257) (-)

Ion 53.00 (52.70 to 53.70): VN062756.D (-3257) (-)

Ion 88.90 (88.60 to 89.60): VN062756.D (-3257) (-)



#95

Naphthalene

Concen: 3.716 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.03 min

Lab File: VN062859.D

Acq: 12 Aug 2020 15:44

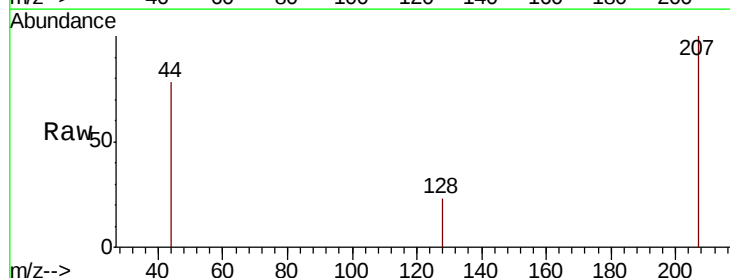
Tgt Ion: 128 Resp: 31

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN062756.D (-4132) (-)

Ion 127.00 (126.70 to 127.70): VN062756.D (-4132) (-)

Ion 129.00 (128.70 to 129.70): VN062756.D (-4132) (-)

