

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\  
 Data File : VN056221.D  
 Acq On : 11 Jun 2019 14:22  
 Operator : JC/SP  
 Sample : K3284-10  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-TT-AOC22-MW03-20190609

Quant Time: Jun 12 06:33:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

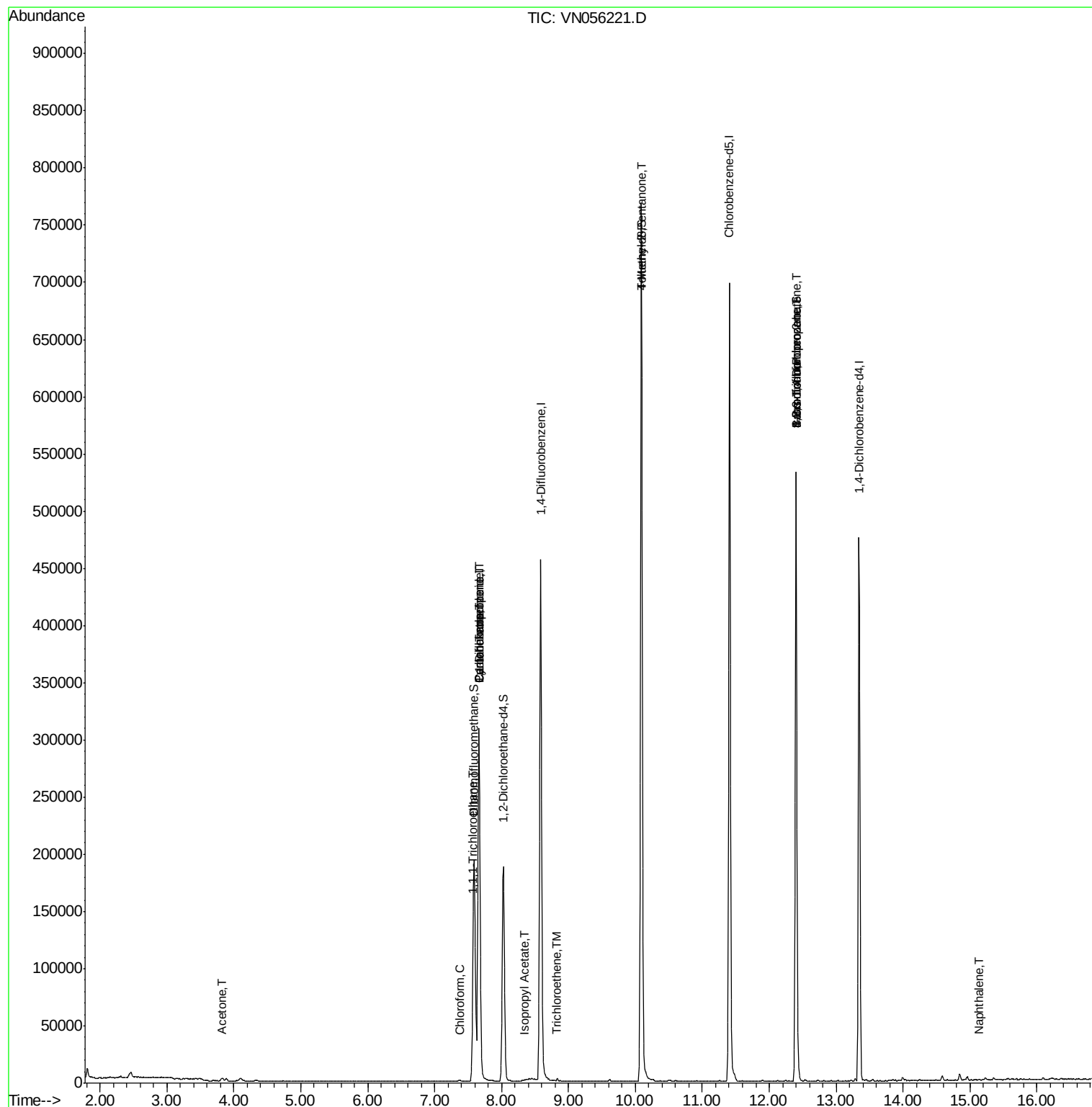
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.66  | 168  | 304001   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.58  | 114  | 447987   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.41 | 117  | 444283   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.34 | 152  | 148170   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.02  | 65   | 159646   | 52.89     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.78% |          |
| 35) Dibromofluoromethane       | 7.59  | 113  | 149453   | 54.38     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 108.76% |          |
| 50) Toluene-d8                 | 10.09 | 98   | 581550   | 54.99     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.98% |          |
| 62) 4-Bromofluorobenzene       | 12.40 | 95   | 184515   | 51.30     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.60% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 16) Acetone                    | 3.82  | 43   | 4668     | 3.233     | ug/l    | 88       |
| 18) Methyl Acetate             | 4.34  | 43   | 1475     | Below Cal | #       | 51       |
| 30) Chloroform                 | 7.37  | 83   | 1314     | 0.272     | ug/l    | 92       |
| 31) Cyclohexane                | 7.66  | 56   | 4072     | 0.850     | ug/l #  | 1        |
| 32) 1,1,1-Trichloroethane      | 7.56  | 97   | 854      | 0.212     | ug/l #  | 24       |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 16518    | 4.288     | ug/l #  | 47       |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 24127    | 6.794     | ug/l #  | 15       |
| 43) Isopropyl Acetate          | 8.34  | 43   | 1210     | 0.218     | ug/l #  | 53       |
| 44) Trichloroethene            | 8.83  | 130  | 730      | 0.217     | ug/l    | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 2179     | 0.627     | ug/l #  | 1        |
| 71) Bromoform                  | 12.40 | 173  | 752      | 3.019     | ug/l #  | 1        |
| 73) Isopropylbenzene           | 12.25 | 105  | 287      | Below Cal | #       | 48       |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 84705    | 31.069    | ug/l #  | 100      |
| 79) 2-Chlorotoluene            | 12.59 | 91   | 97       | Below Cal | #       | 39       |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 84705    | 103.464   | ug/l #  | 15       |
| 95) Naphthalene                | 15.13 | 128  | 710      | 3.944     | ug/l #  | 69       |

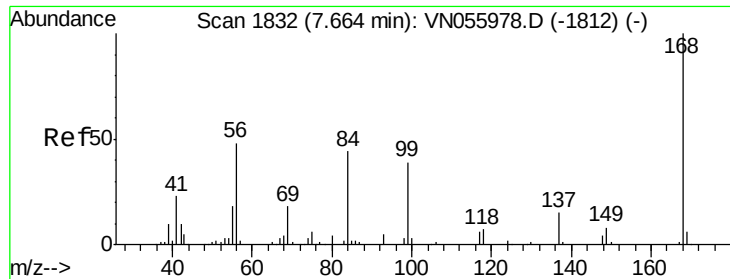
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061119\  
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BP-TT-AOC22-MW03-20190609

Quant Time: Jun 12 06:33:57 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 04 11:02:09 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

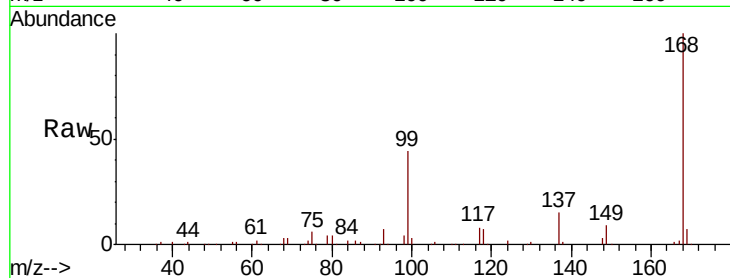
BP-TT-AOC22-MW03-20190609

Tot Ion:168 Resp: 304001

Ion Ratio Lower Upper

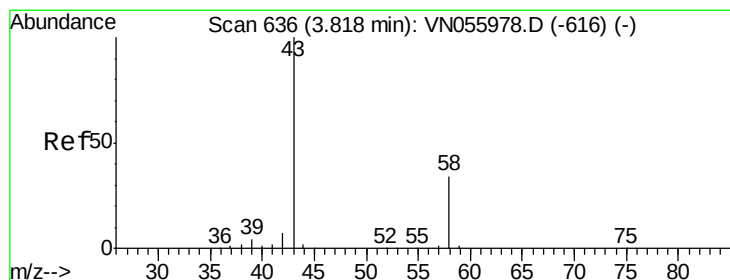
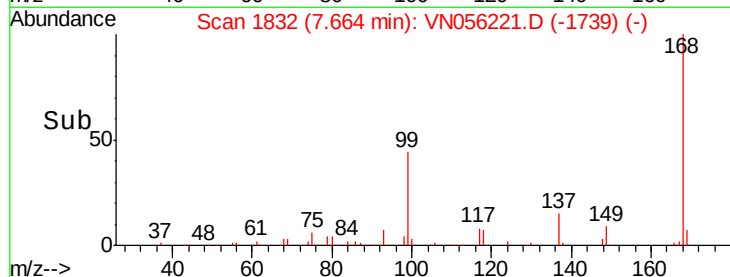
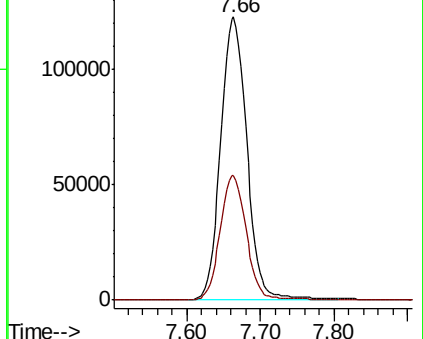
168 100

99 44.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 3.233 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056221.D

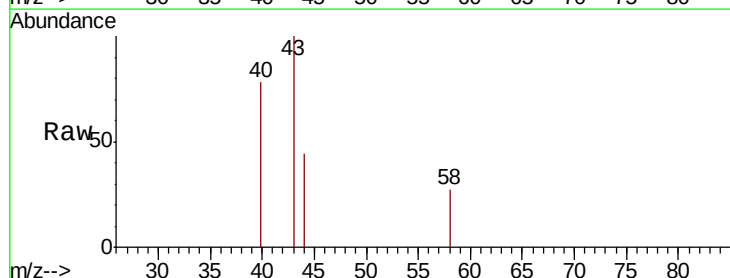
Acq: 11 Jun 2019 14:22

Tgt Ion: 43 Resp: 4668

Ion Ratio Lower Upper

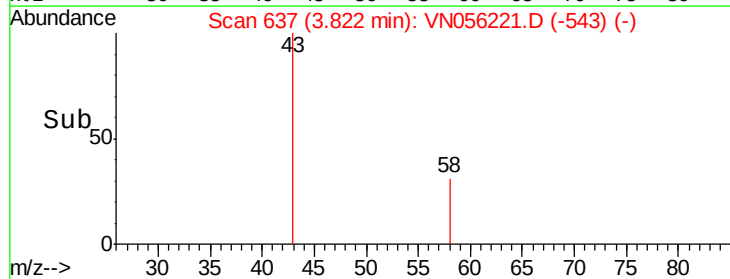
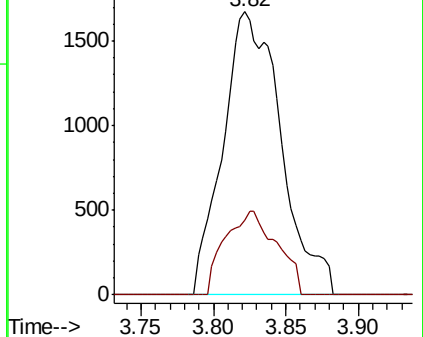
43 100

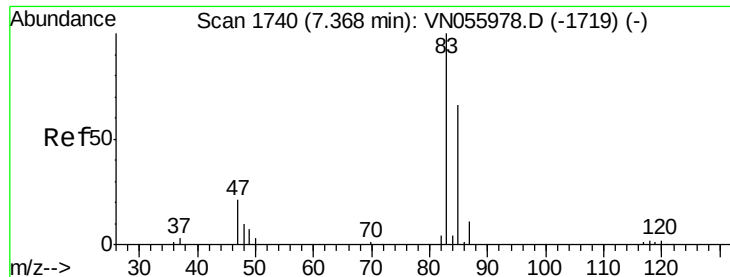
58 26.6 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

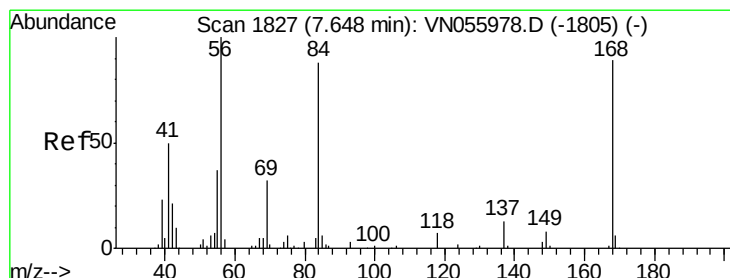
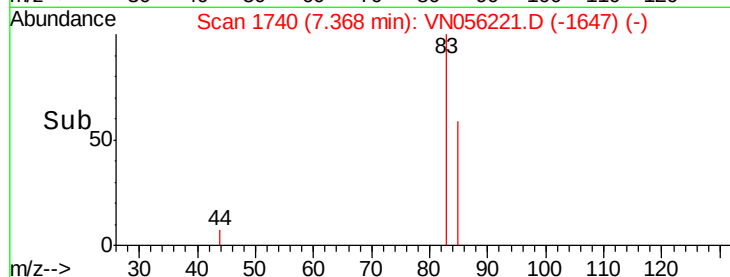
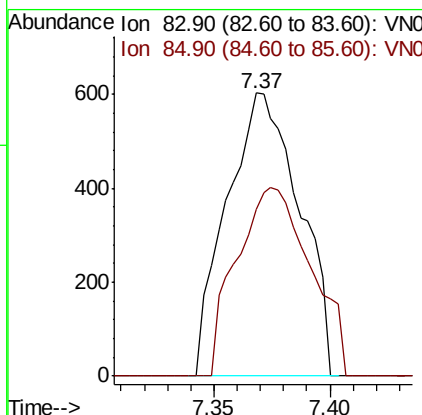
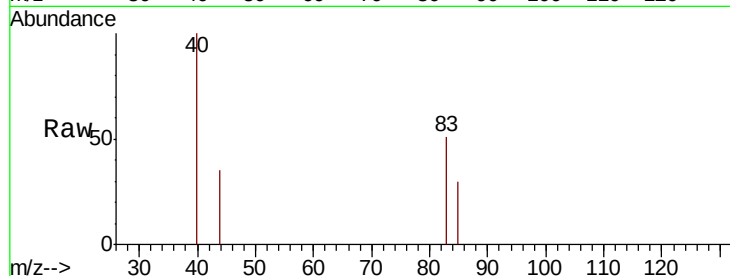




#30  
Chloroform  
Concen: 0.272 ug/l  
RT: 7.37 min Scan# 1740  
Delta R.T. 0.00 min  
Lab File: VN056221.D  
Acq: 11 Jun 2019 14:22

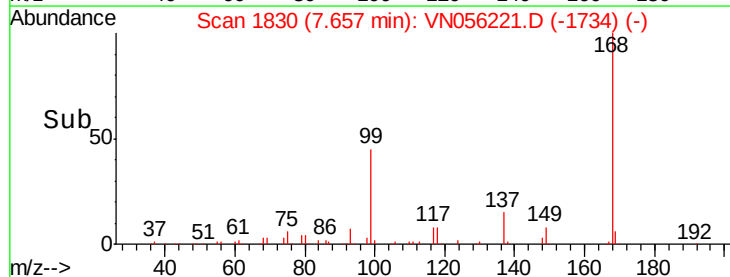
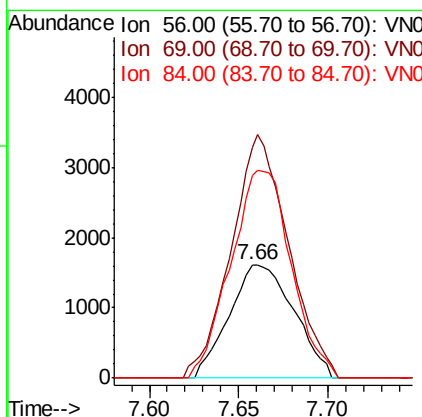
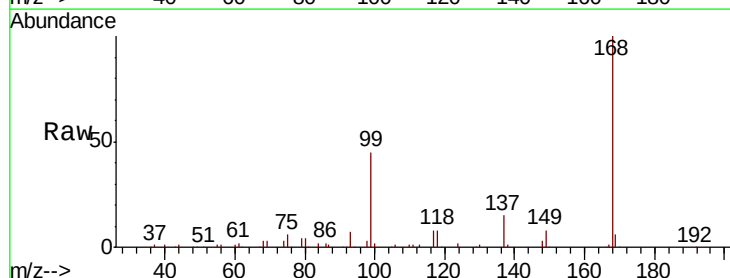
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TT-AOC22-MW03-20190609

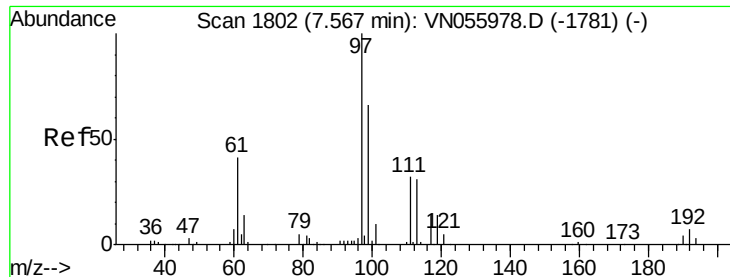
Tot Ion: 83 Resp: 1314  
Ion Ratio Lower Upper  
83 100  
85 58.9 51.8 77.8



#31  
Cyclohexane  
Concen: 0.850 ug/l  
RT: 7.66 min Scan# 1830  
Delta R.T. 0.01 min  
Lab File: VN056221.D  
Acq: 11 Jun 2019 14:22

Tgt Ion: 56 Resp: 4072  
Ion Ratio Lower Upper  
56 100  
69 204.0 25.6 38.4#  
84 178.4 67.4 101.0#





#32

1,1,1-Trichloroethane

Concen: 0.212 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-AOC22-MW03-20190609

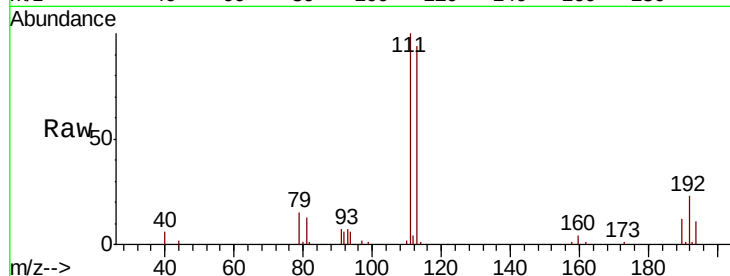
Tot Ion: 97 Resp: 854

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0#

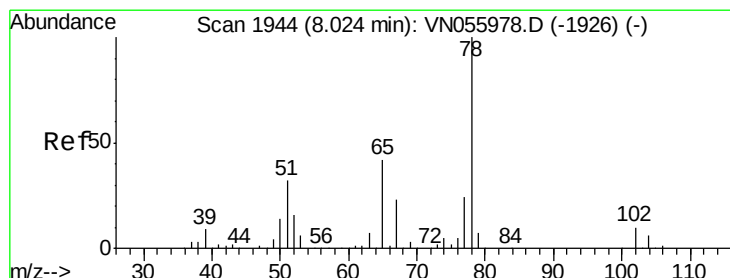
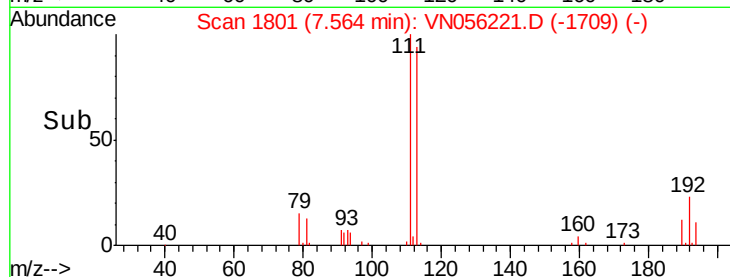
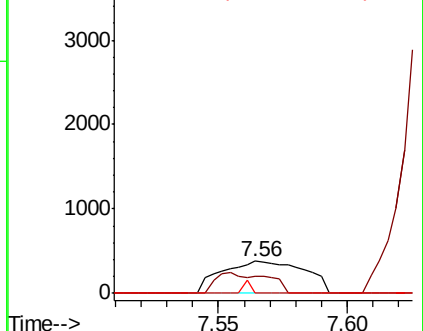
61 0.0 32.9 49.3#



Abundance Ion 96.90 (96.60 to 97.60): VN055978.D (-1781) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1781) (-)

Ion 60.90 (60.60 to 61.60): VN055978.D (-1781) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.890 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN056221.D

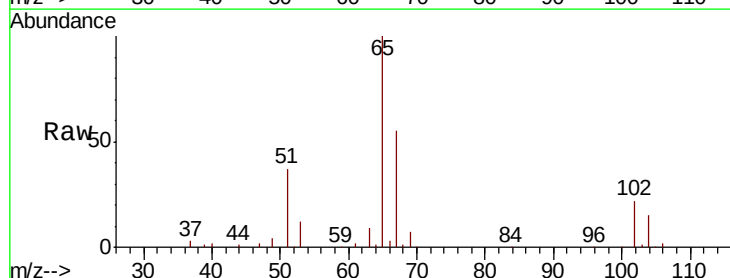
Acq: 11 Jun 2019 14:22

Tgt Ion: 65 Resp: 159646

Ion Ratio Lower Upper

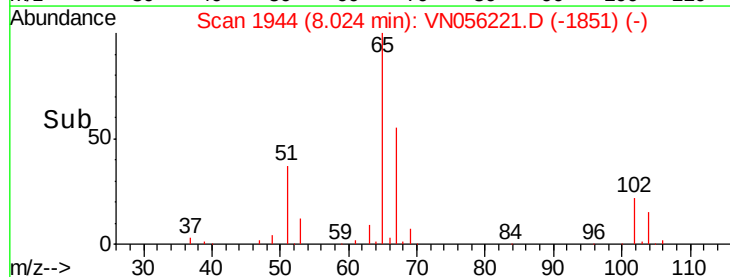
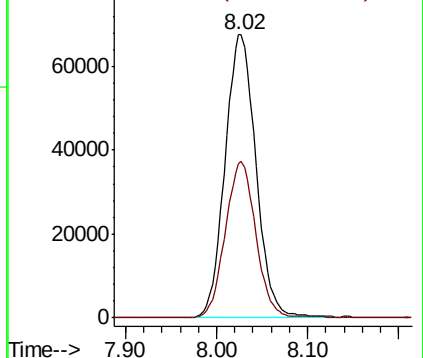
65 100

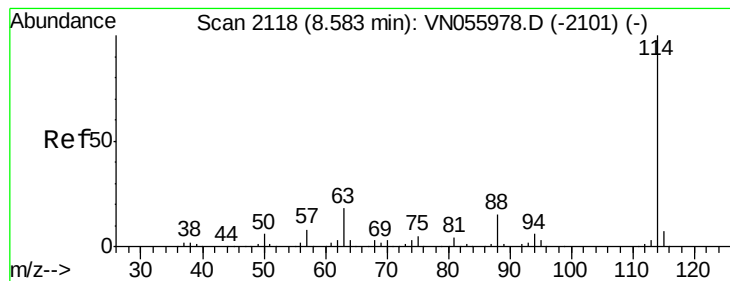
67 54.4 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055978.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055978.D (-1926) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-AOC22-MW03-20190609

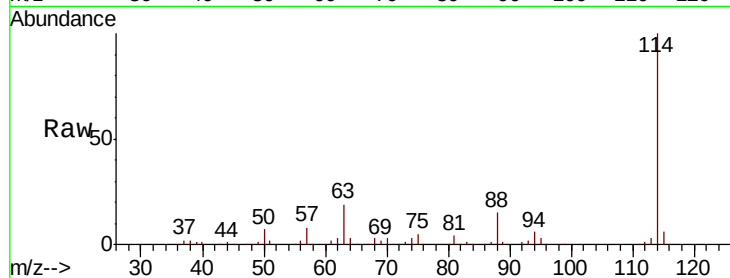
Tot Ion:114 Resp: 447987

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.2

88 15.0 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN

250000

200000

150000

100000

50000

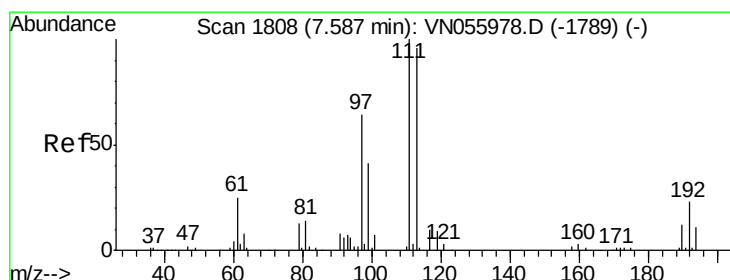
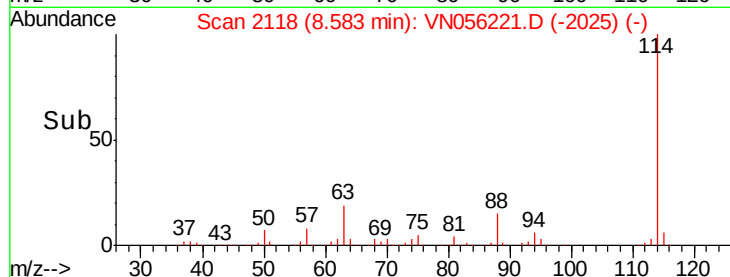
0

8.50

8.60

8.70

Time-->



#35

Dibromofluoromethane

Concen: 54.375 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

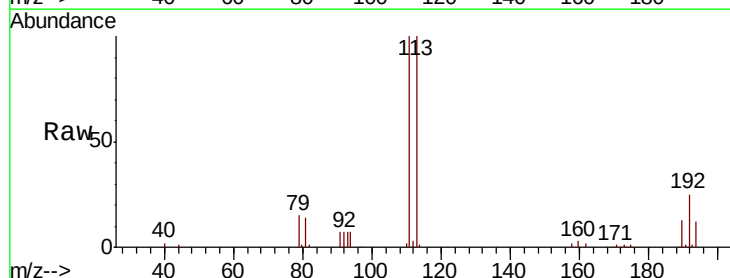
Tgt Ion:113 Resp: 149453

Ion Ratio Lower Upper

113 100

111 101.3 81.9 122.9

192 25.4 19.5 29.3



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

80000

60000

40000

20000

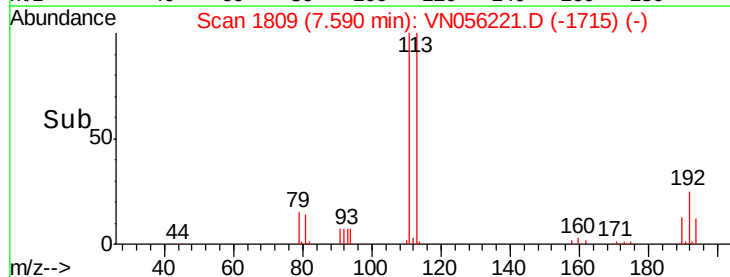
0

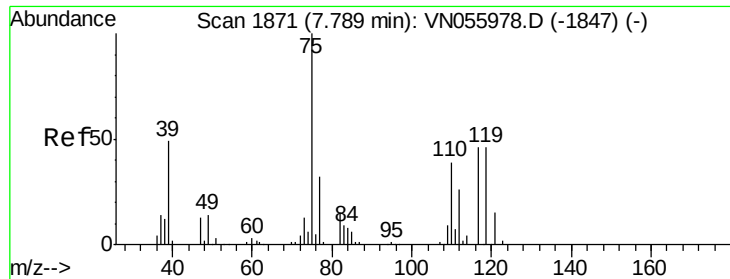
7.50

7.60

7.70

Time-->

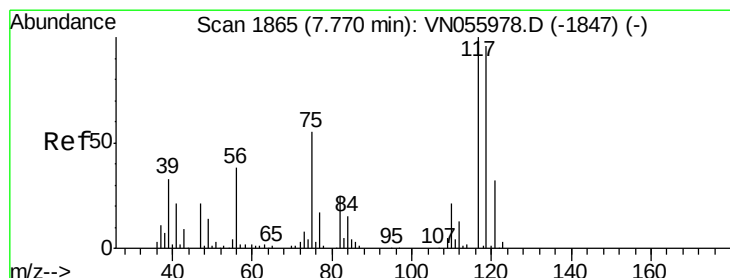
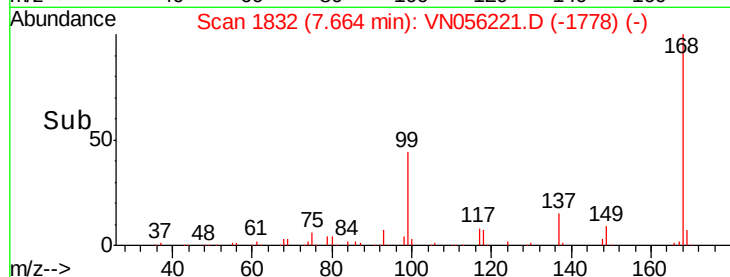
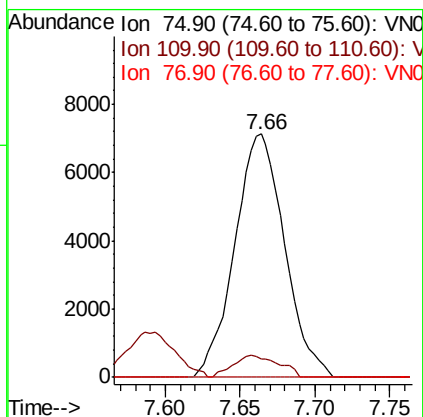
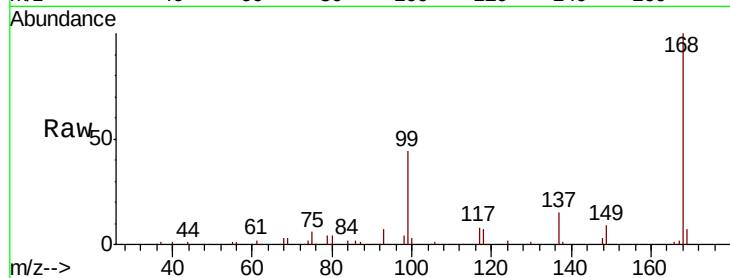




#36  
 1,1-Dichloropropene  
 Concen: 4.288 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN056221.D  
 Acq: 11 Jun 2019 14:22

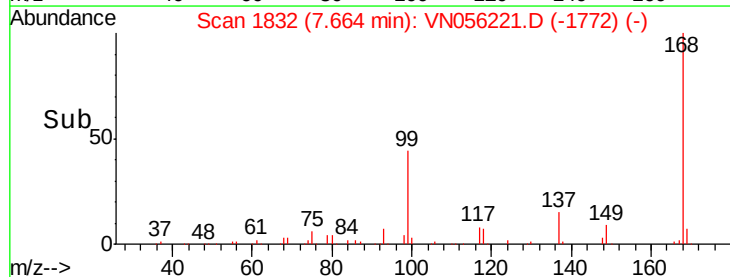
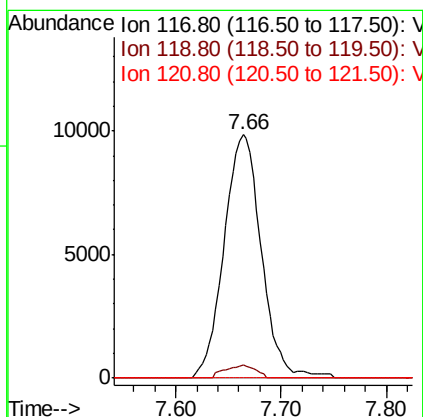
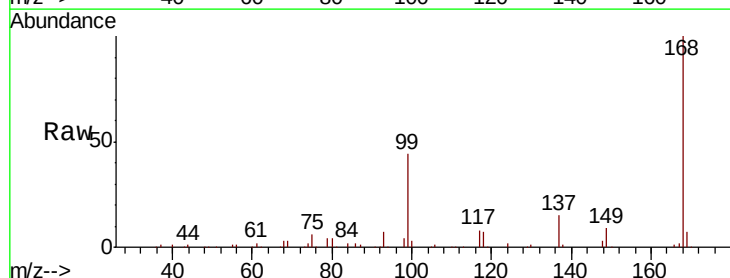
Instrument :  
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 BP-TT-AOC22-MW03-20190609

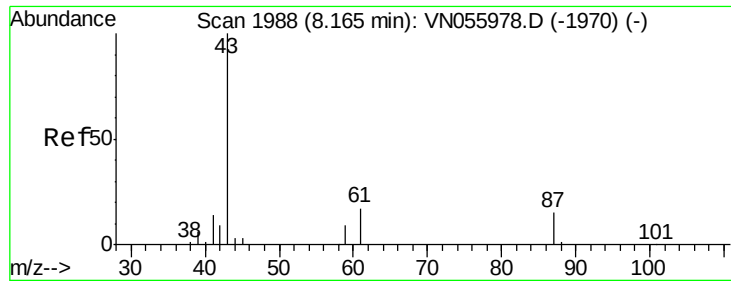
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.3   | 19.0  | 57.0# |
| 77      | 0.0   | 25.1  | 37.7# |



#38  
 Carbon Tetrachloride  
 Concen: 6.794 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN056221.D  
 Acq: 11 Jun 2019 14:22

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.3   | 79.0  | 118.6# |
| 121     | 0.0   | 24.7  | 37.1#  |





#43

Isopropyl Acetate

Concen: 0.218 ug/l

RT: 8.34 min Scan# 2041

Delta R.T. 0.17 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-AOC22-MW03-20190609

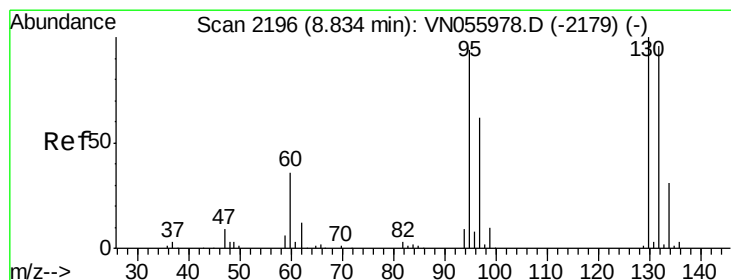
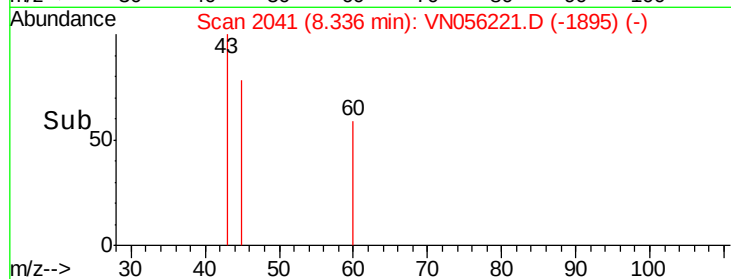
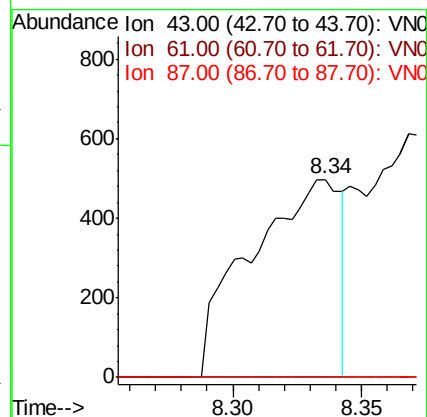
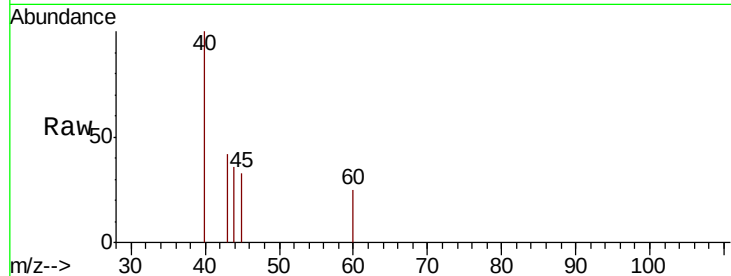
Tot Ion: 43 Resp: 1210

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#44

Trichloroethene

Concen: 0.217 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. -0.00 min

Lab File: VN056221.D

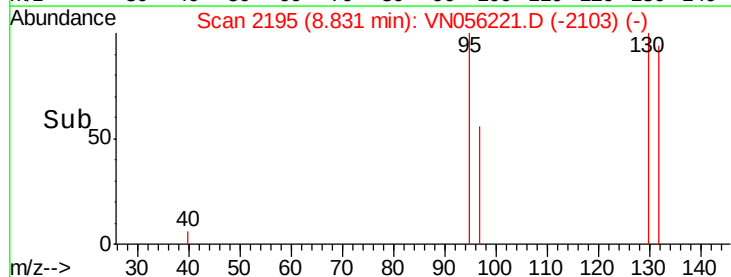
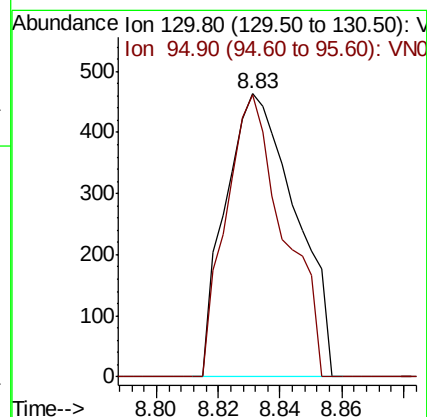
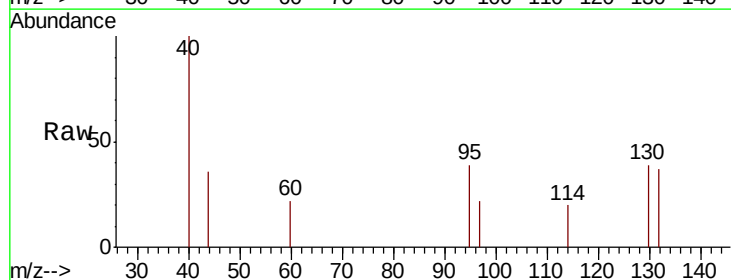
Acq: 11 Jun 2019 14:22

Tgt Ion: 130 Resp: 730

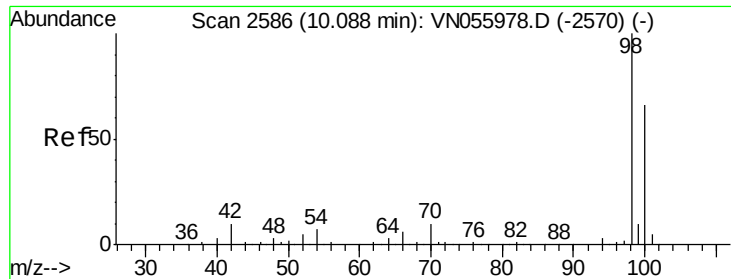
Ion Ratio Lower Upper

130 100

95 99.6 0.0 188.0







#50

Toluene-d8

Concen: 54.986 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

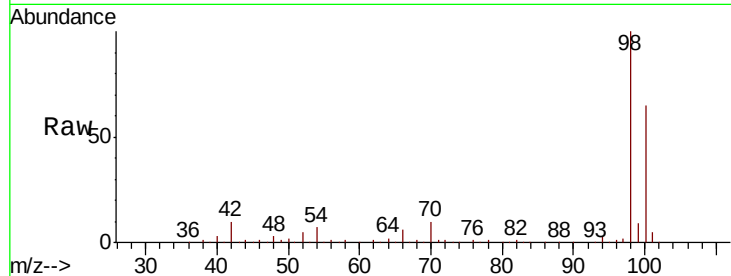
BP-TT-AOC22-MW03-20190609

Tot Ion: 98 Resp: 581550

Ion Ratio Lower Upper

98 100

100 63.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

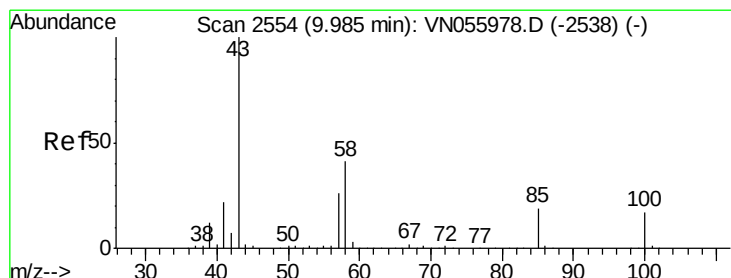
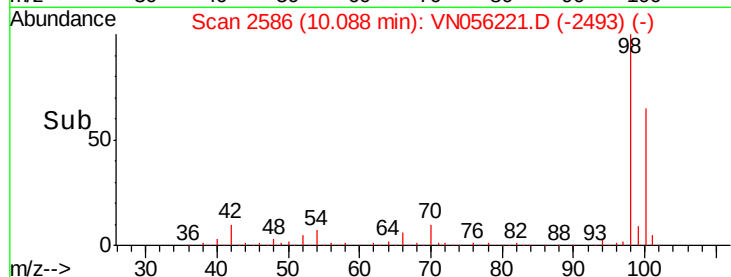
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.627 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056221.D

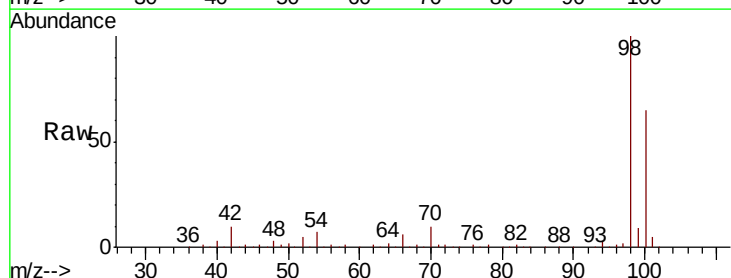
Acq: 11 Jun 2019 14:22

Tgt Ion: 43 Resp: 2179

Ion Ratio Lower Upper

43 100

58 184.9 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

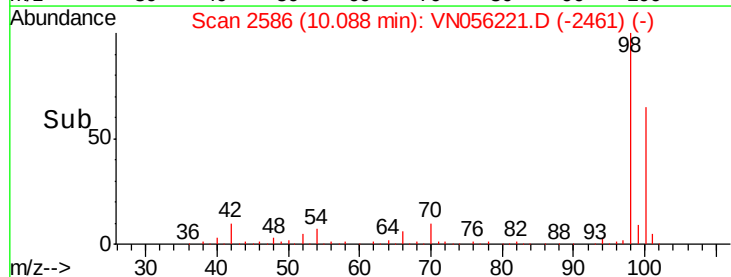
1500

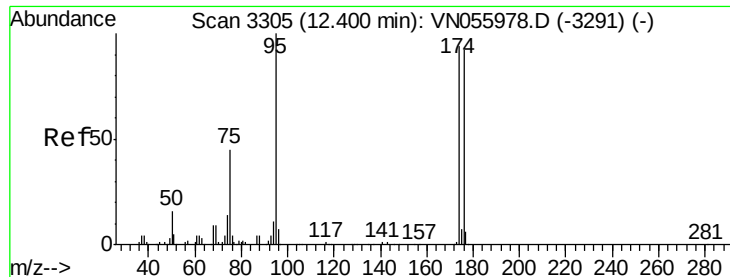
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 51.300 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-AOC22-MW03-20190609

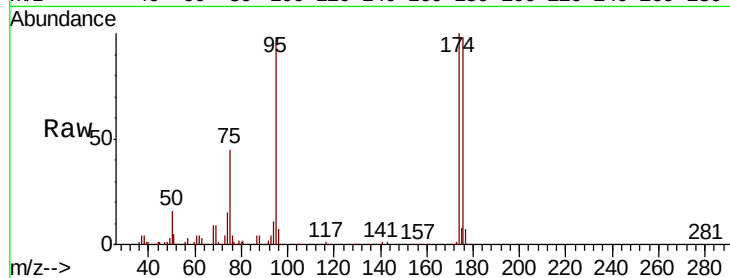
Tot Ion: 95 Resp: 184515

Ion Ratio Lower Upper

95 100

174 100.9 0.0 191.0

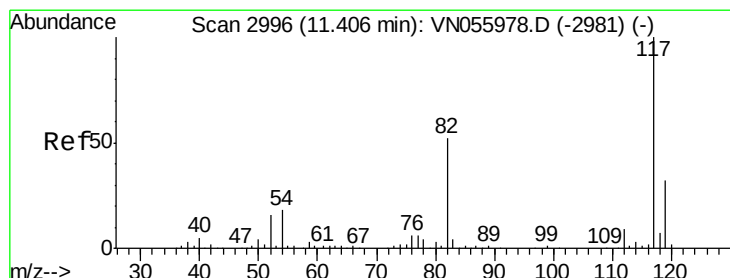
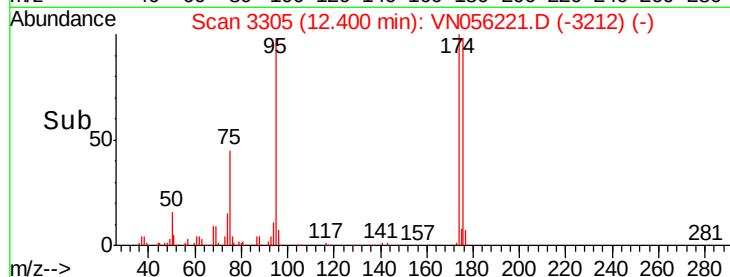
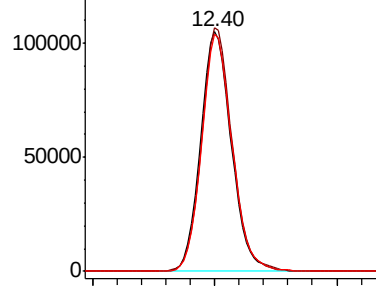
176 98.0 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

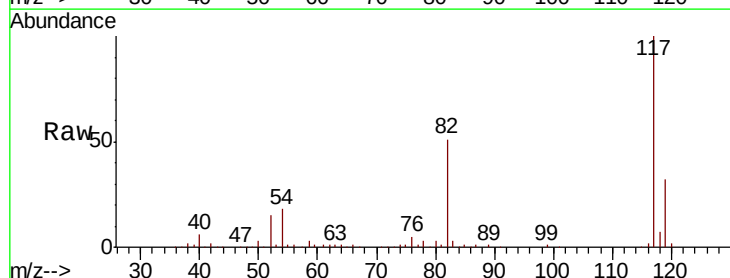
Tgt Ion: 117 Resp: 444283

Ion Ratio Lower Upper

117 100

82 51.3 41.8 62.8

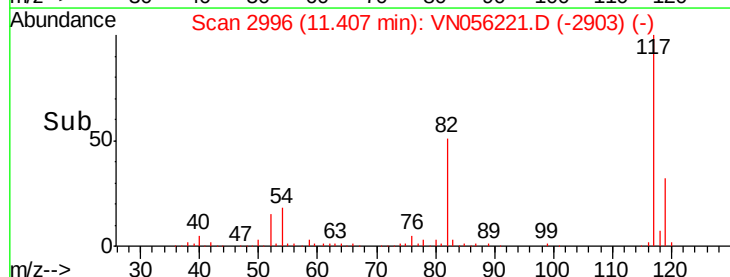
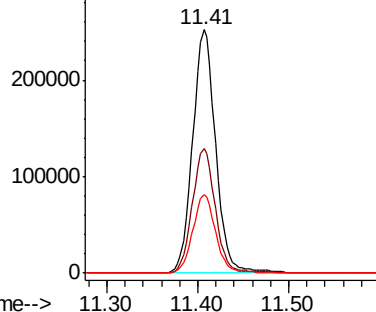
119 32.4 25.4 38.0

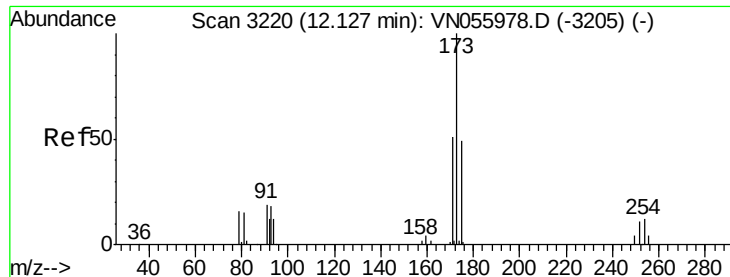


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#71

Bromoform

Concen: 3.019 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-AOC22-MW03-20190609

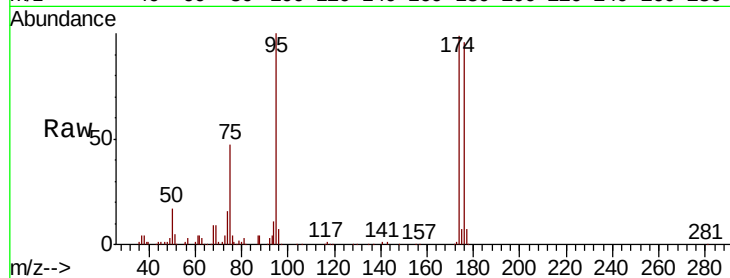
Tot Ion:173 Resp: 752

Ion Ratio Lower Upper

173 100

175 1545.1 24.3 72.8#

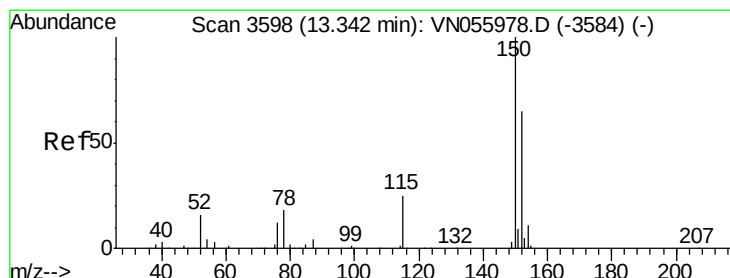
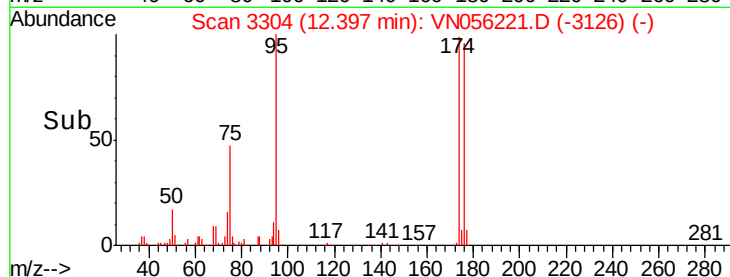
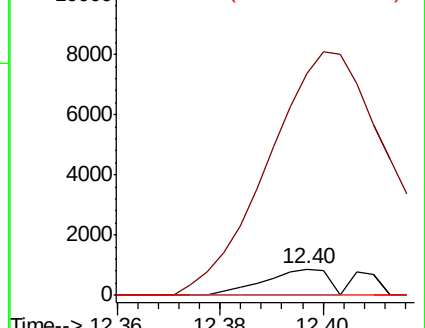
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

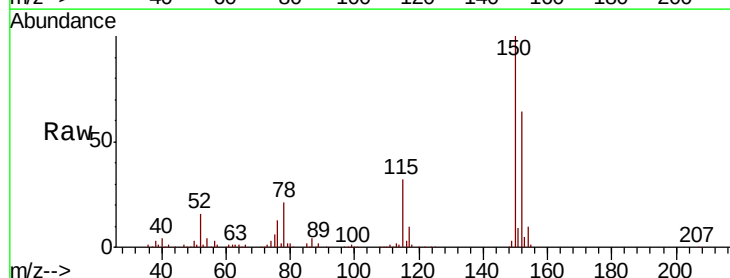
Tgt Ion:152 Resp: 148170

Ion Ratio Lower Upper

152 100

115 51.2 27.0 81.0

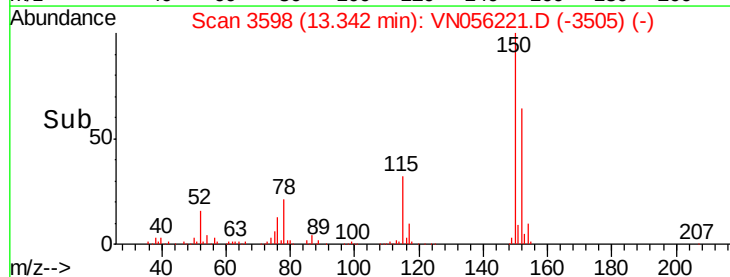
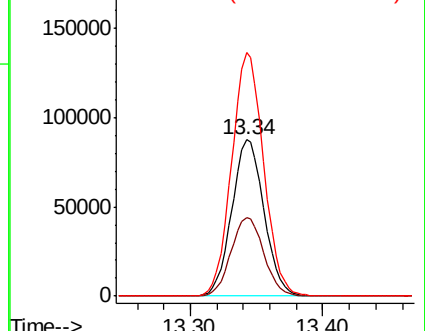
150 154.4 0.0 343.2

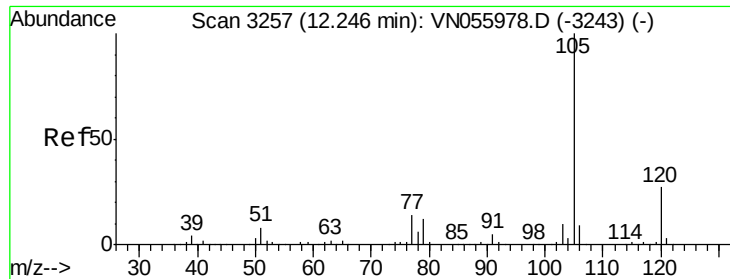


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

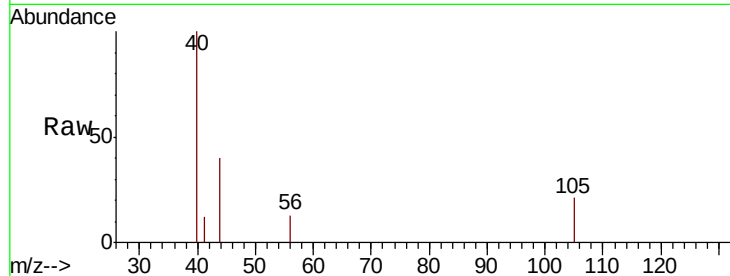
BP-TT-AOC22-MW03-20190609

Tot Ion:105 Resp: 287

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

250

200

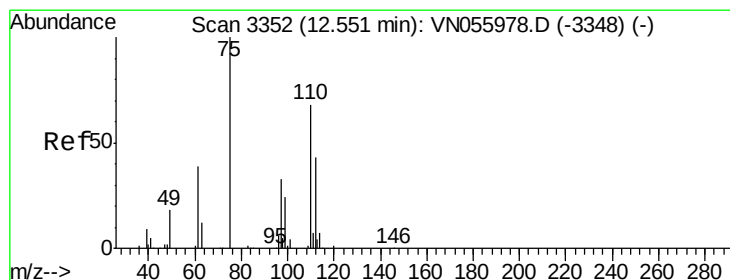
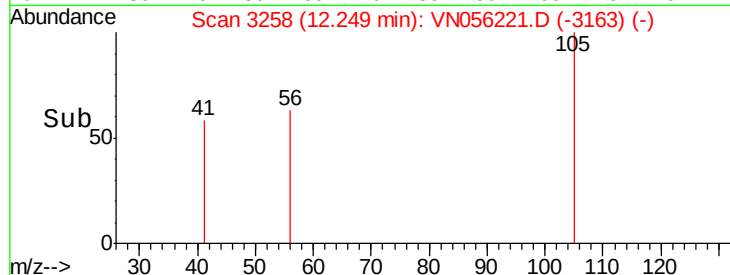
150

100

50

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.069 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056221.D

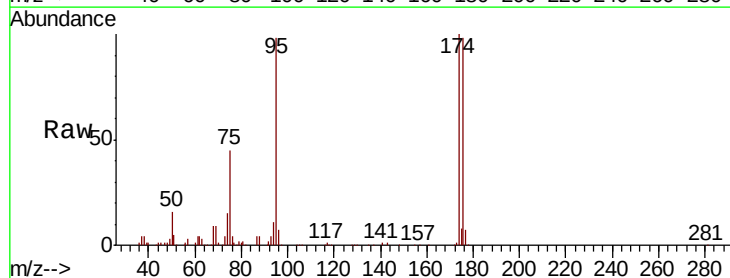
Acq: 11 Jun 2019 14:22

Tgt Ion: 75 Resp: 84705

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.40

50000

40000

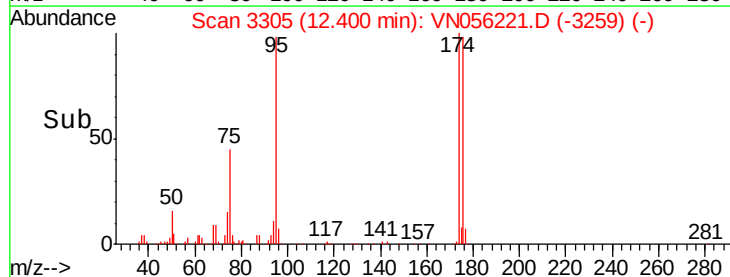
30000

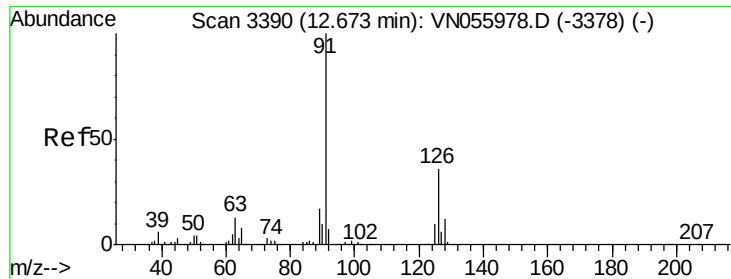
20000

10000

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

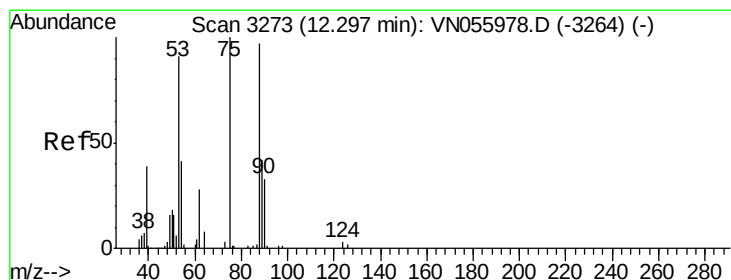
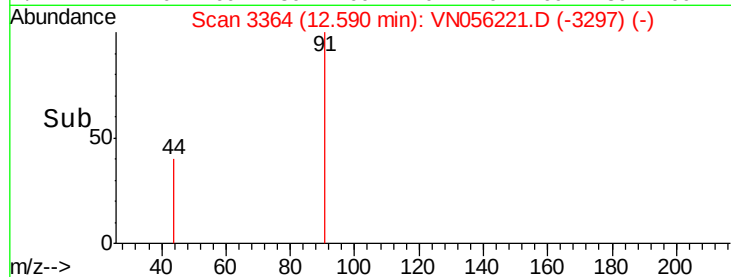
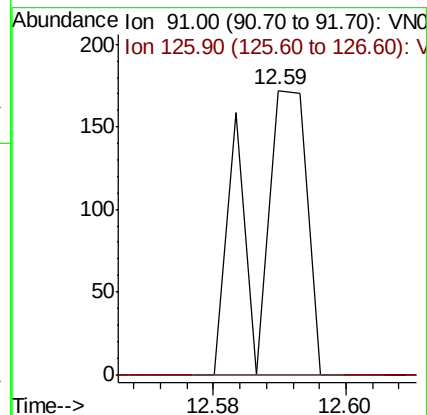
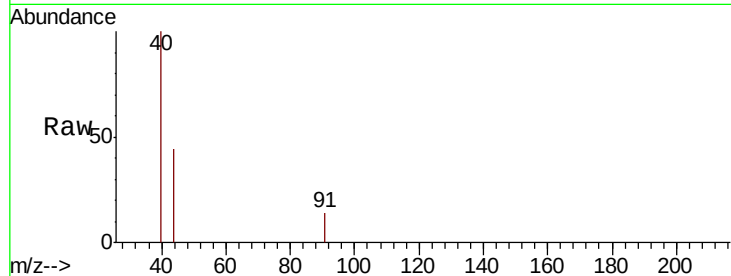
BP-TT-AOC22-MW03-20190609

Tot Ion: 91 Resp: 97

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.464 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056221.D

Acq: 11 Jun 2019 14:22

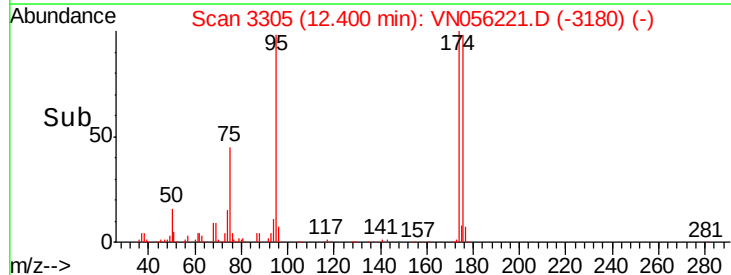
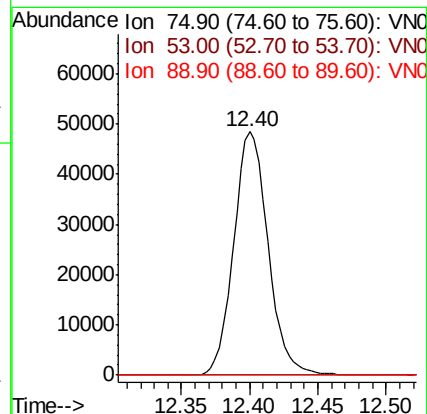
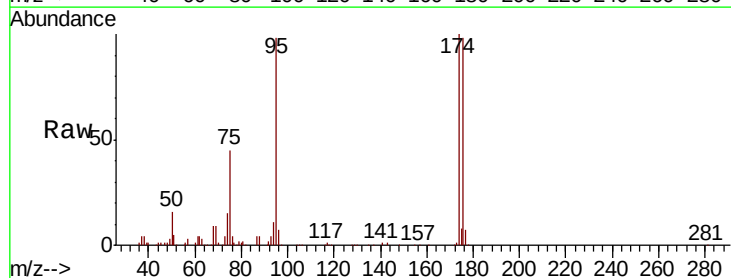
Tgt Ion: 75 Resp: 84705

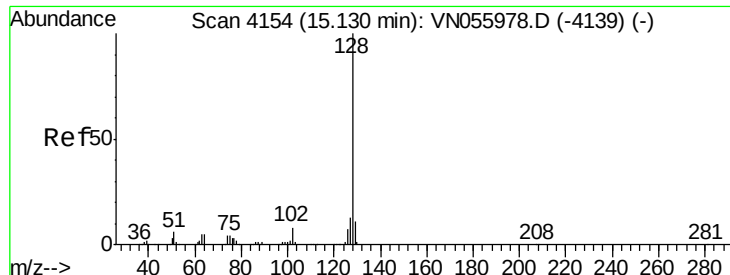
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 3.944 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056221.D

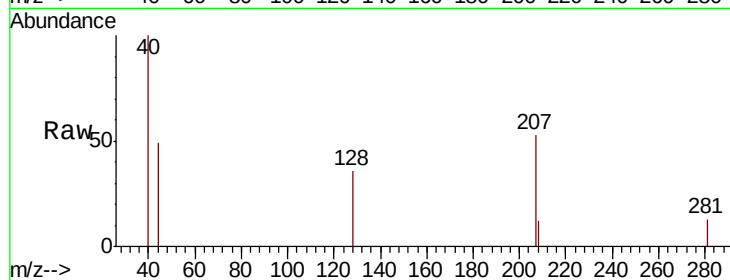
Acq: 11 Jun 2019 14:22

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-AOC22-MW03-20190609



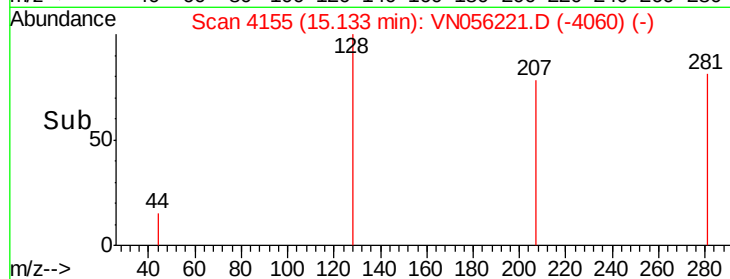
Tot Ion:128 Resp: 710

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

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

