

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
 Data File : VN056177.D  
 Acq On : 10 Jun 2019 18:18  
 Operator : JC/SP  
 Sample : K3280-12  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-TT-SW4003-20190608

Quant Time: Jun 11 02:21:42 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  | 324148   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 492881   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 469409   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 137179   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 174474   | 54.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.42% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 160093   | 52.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.88% |          |
| 50) Toluene-d8              | 10.09 | 98   | 630098   | 54.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.30% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 188025   | 47.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.02%  |          |

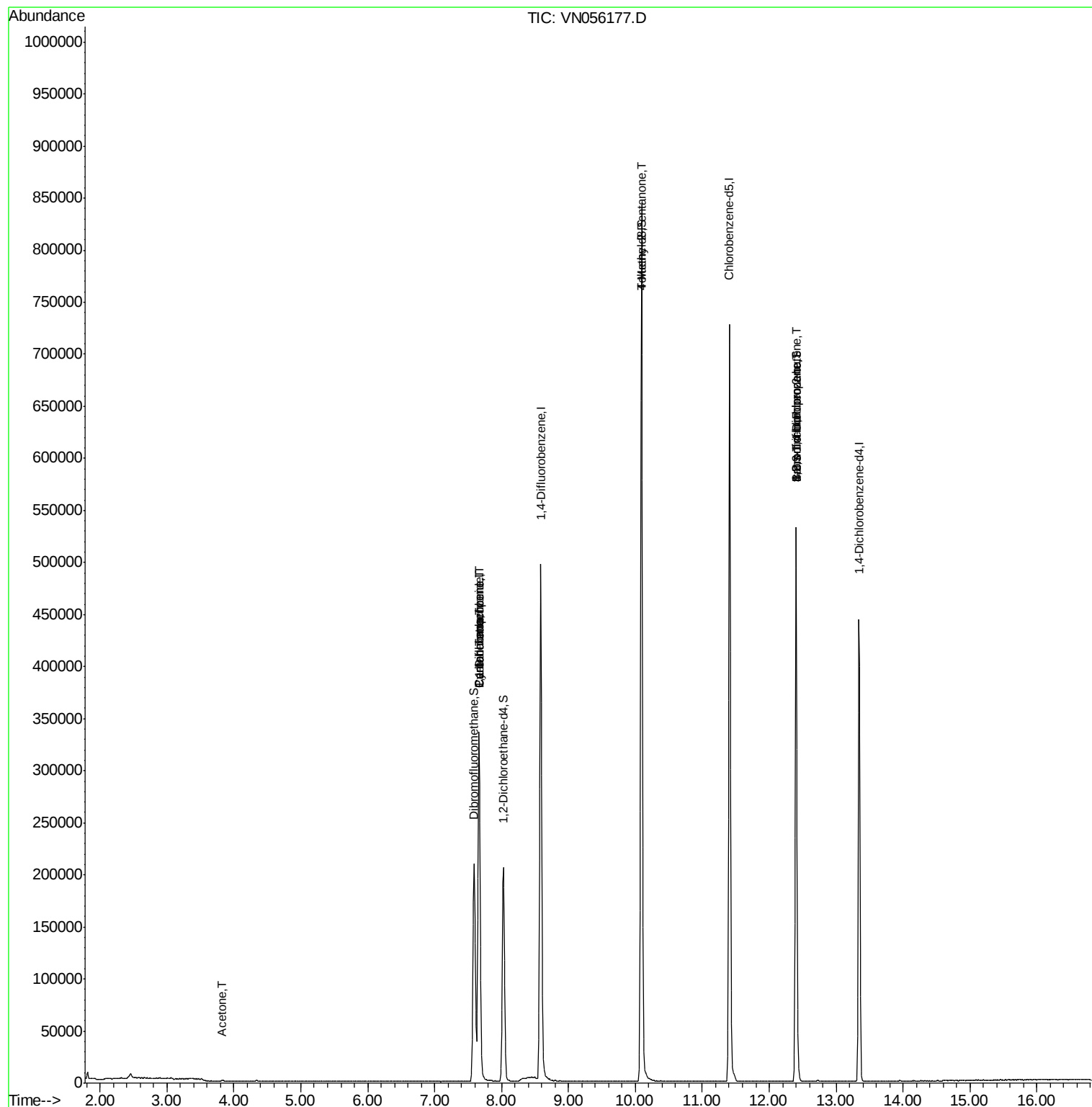
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.82  | 43   | 719      | 0.467     | ug/l # | 41     |
| 31) Cyclohexane                | 7.66  | 56   | 4435     | 0.868     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 18368    | 4.334     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 25670    | 6.570     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 2437     | 0.638     | ug/l # | 1      |
| 71) Bromoform                  | 12.40 | 173  | 1383     | 3.225     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.40 | 105  | 89       | Below Cal | #      | 48     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 87037    | 34.482    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 12.40 | 91   | 450      | Below Cal | #      | 39     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 87037    | 114.830   | ug/l # | 15     |

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

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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: VN056177.D

Acq: 10 Jun 2019 18:18

Instrument :

MSVOA\_N

ClientSampleId :

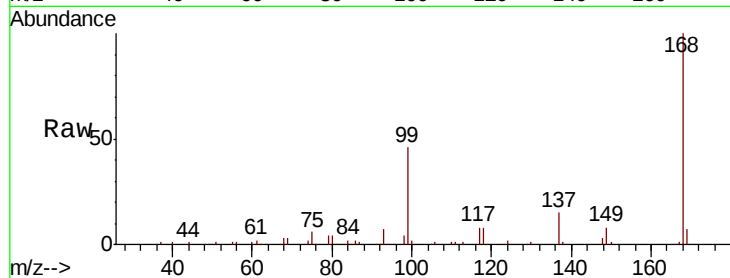
BP-TT-SW4003-20190608

Tot Ion:168 Resp: 324148

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

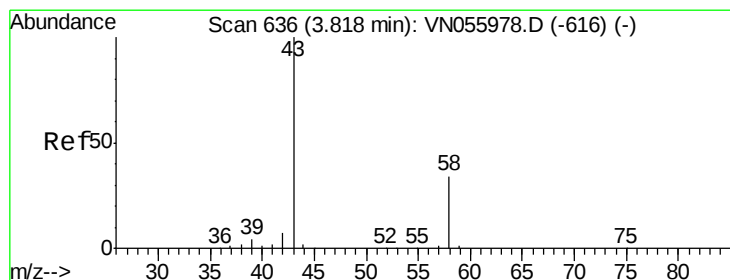
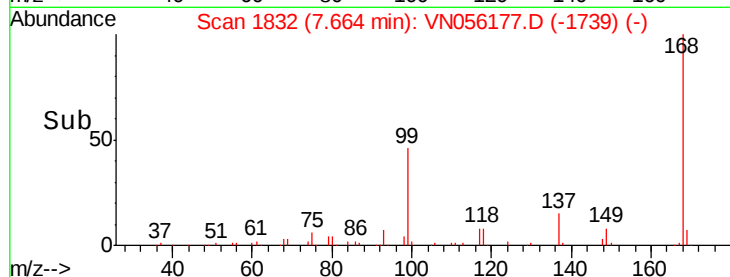
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 0.467 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN056177.D

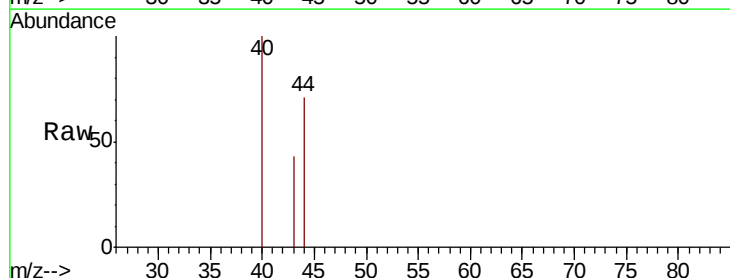
Acq: 10 Jun 2019 18:18

Tgt Ion: 43 Resp: 719

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-616) (-)

3.82

500

400

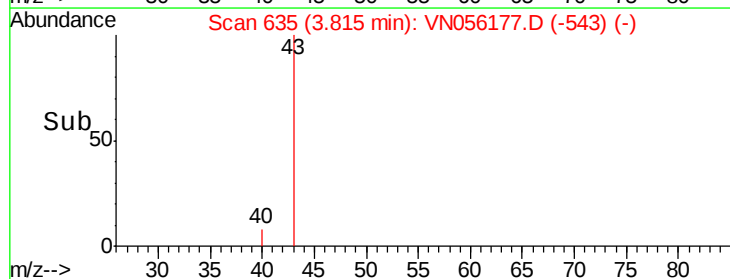
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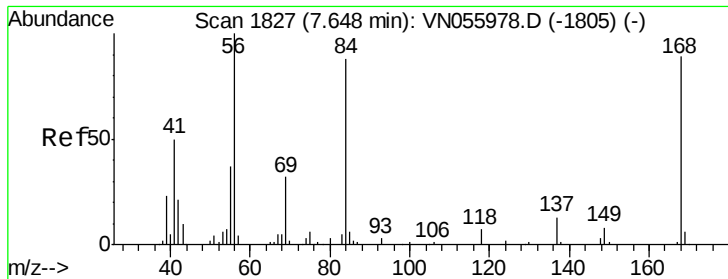
200

100

0

Time-->

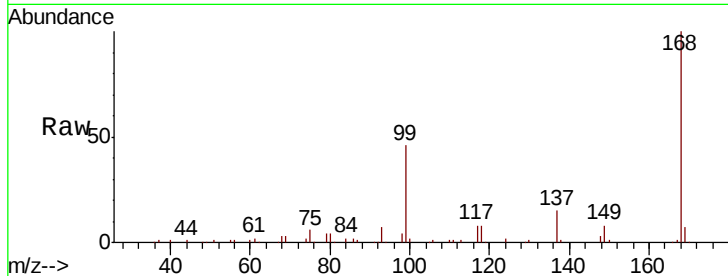




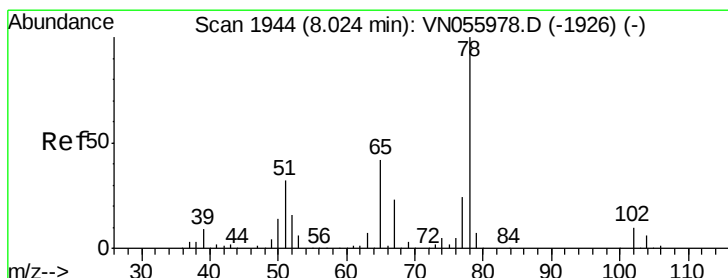
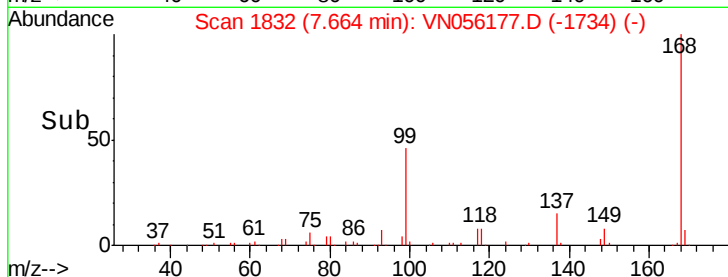
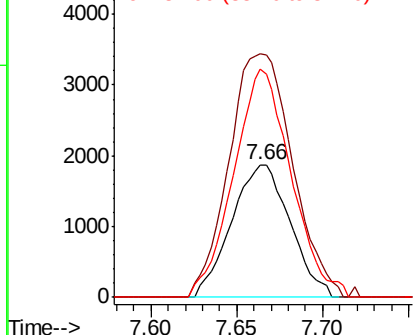
#31  
Cyclohexane  
Concen: 0.868 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.02 min  
Lab File: VN056177.D  
Acq: 10 Jun 2019 18:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TT-SW4003-20190608

Tot Ion: 56 Resp: 4435  
Ion Ratio Lower Upper  
56 100  
69 183.3 25.6 38.4#  
84 171.7 67.4 101.0#

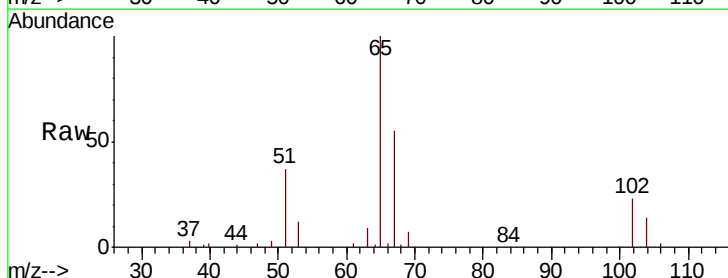


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

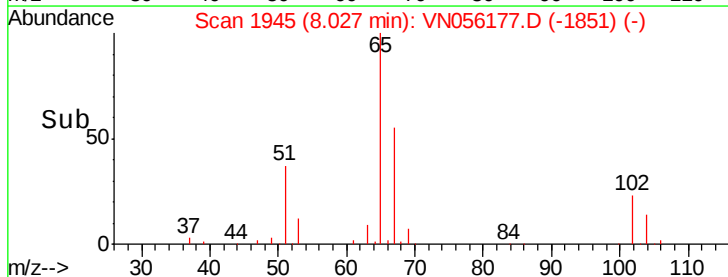
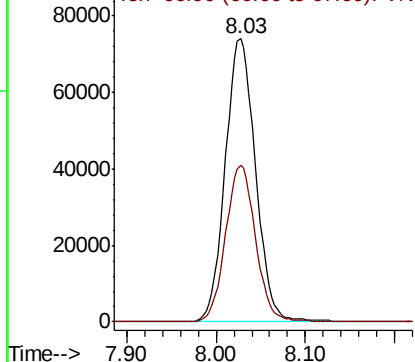


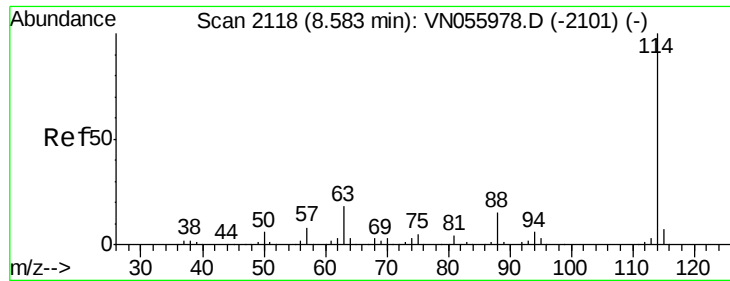
#33  
1,2-Dichloroethane-d4  
Concen: 54.209 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN056177.D  
Acq: 10 Jun 2019 18:18

Tgt Ion: 65 Resp: 174474  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 109.2



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

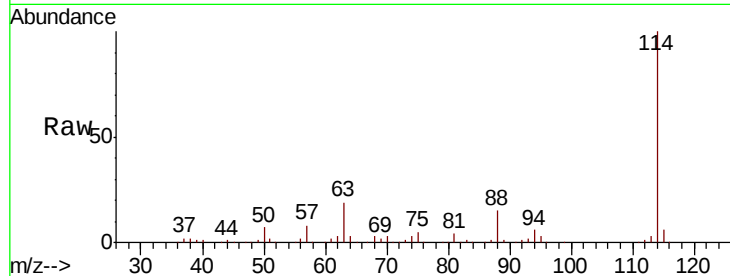




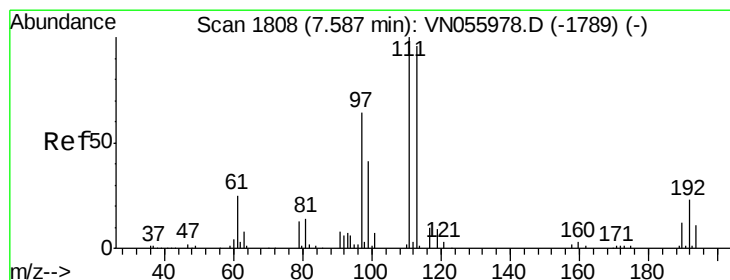
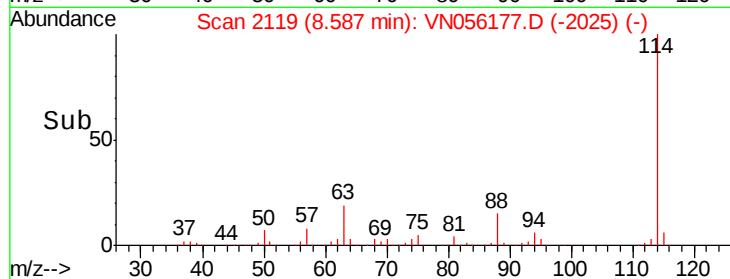
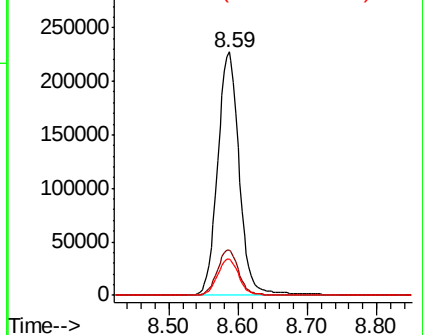
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN056177.D  
 Acq: 10 Jun 2019 18:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-TT-SW4003-20190608

Tot Ion:114 Resp: 492881  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 39.2  
 88 15.1 0.0 31.0

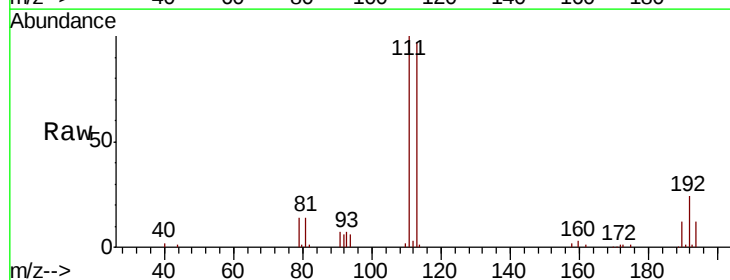


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VNO  
 Ion 87.90 (87.60 to 88.60): VNO

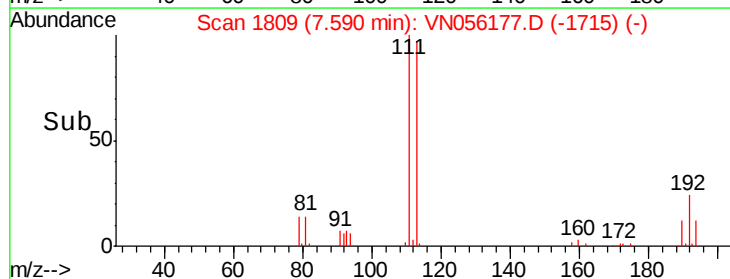
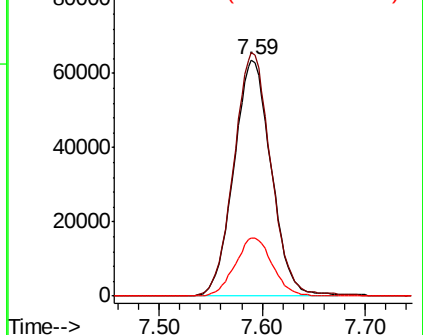


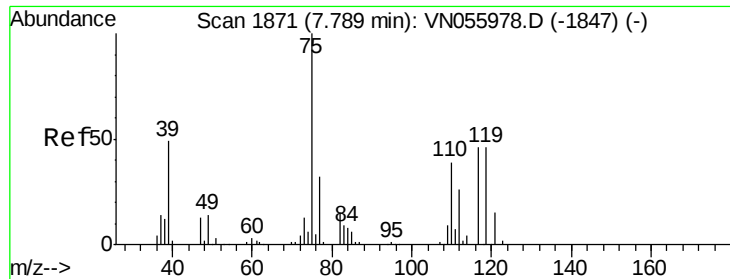
#35  
 Dibromofluoromethane  
 Concen: 52.941 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN056177.D  
 Acq: 10 Jun 2019 18:18

Tgt Ion:113 Resp: 160093  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 81.9 122.9  
 192 24.6 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

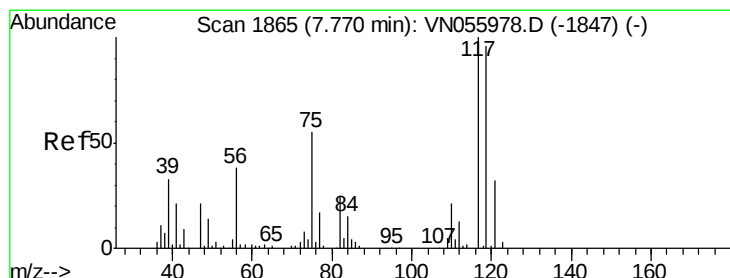
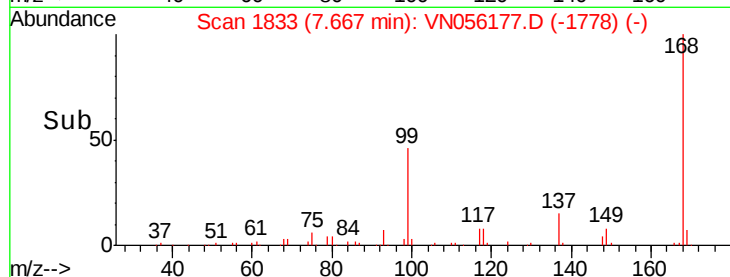
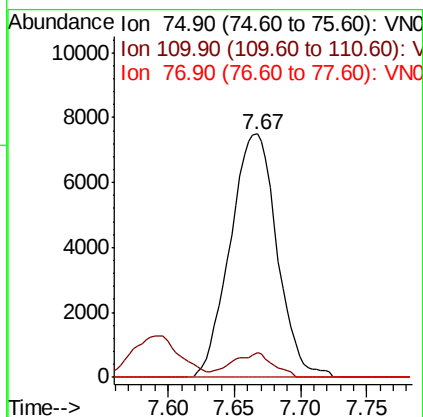
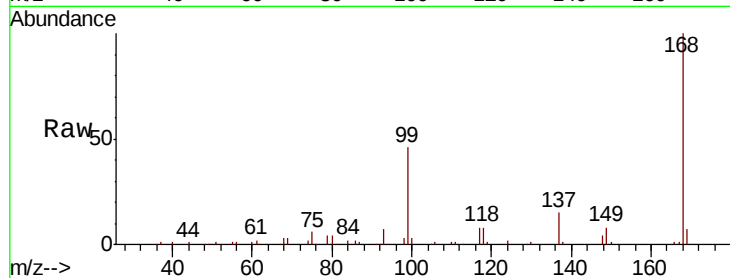




#36  
 1,1-Dichloropropene  
 Concen: 4.334 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.12 min  
 Lab File: VN056177.D  
 Acq: 10 Jun 2019 18:18

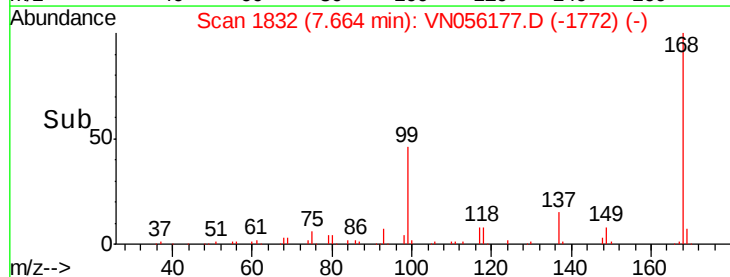
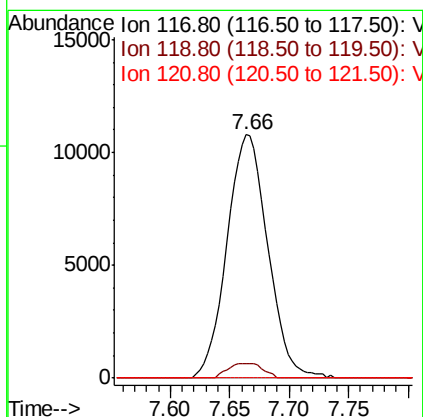
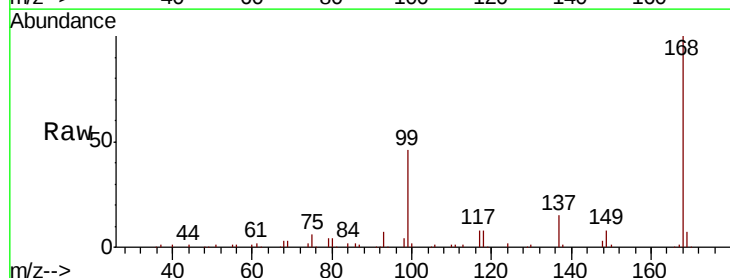
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-TT-SW4003-20190608

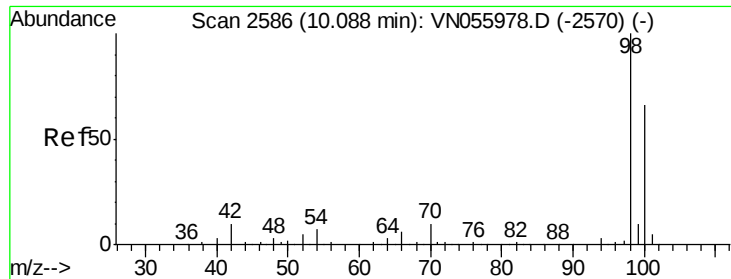
| Tot Ion   | 75    | Resp  | 18368 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.8   | 19.0  | 57.0# |
| 77        | 0.0   | 25.1  | 37.7# |



#38  
 Carbon Tetrachloride  
 Concen: 6.570 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN056177.D  
 Acq: 10 Jun 2019 18:18

| Tgt Ion   | 117   | Resp  | 25670  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.7   | 79.0  | 118.6# |
| 121       | 0.0   | 24.7  | 37.1#  |





#50

Toluene-d8

Concen: 54.149 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056177.D

Acq: 10 Jun 2019 18:18

Instrument :

MSVOA\_N

ClientSampleId :

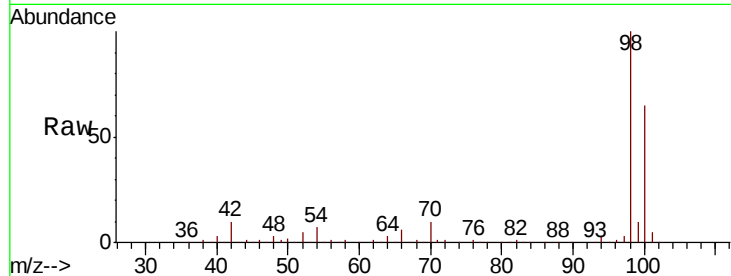
BP-TT-SW4003-20190608

Tot Ion: 98 Resp: 630098

Ion Ratio Lower Upper

98 100

100 64.9 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

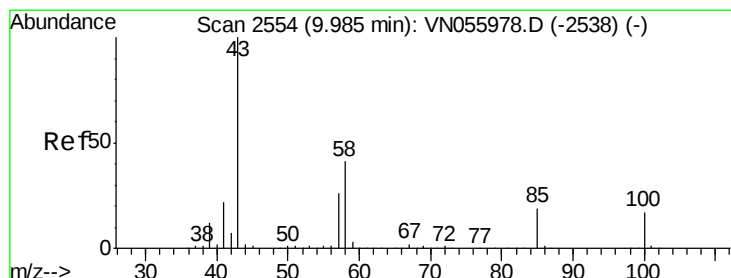
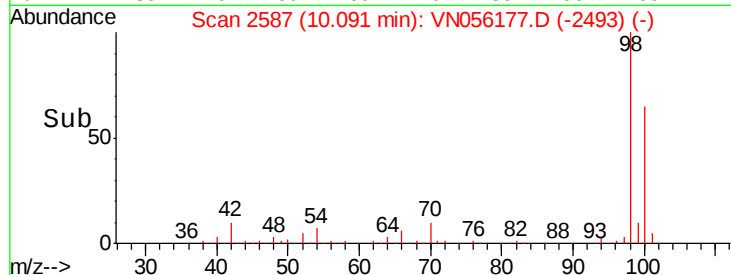
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.638 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056177.D

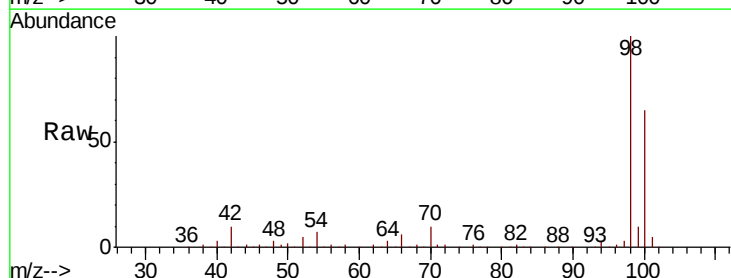
Acq: 10 Jun 2019 18:18

Tgt Ion: 43 Resp: 2437

Ion Ratio Lower Upper

43 100

58 185.5 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) (-)

10.09

2500

2000

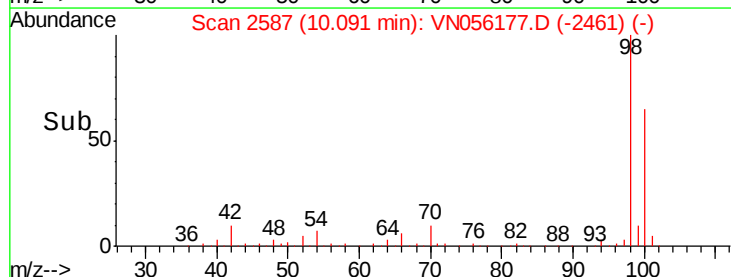
1500

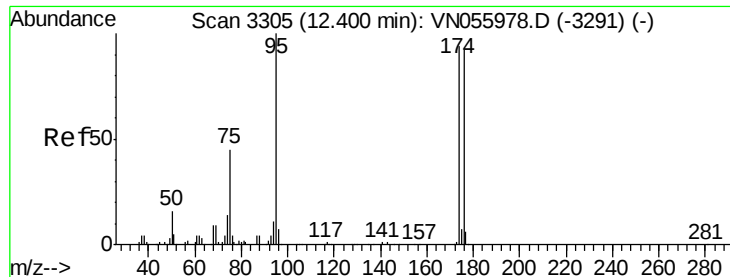
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 47.514 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056177.D

Acq: 10 Jun 2019 18:18

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-SW4003-20190608

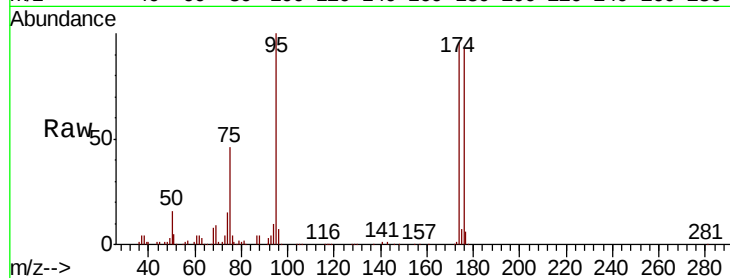
Tot Ion: 95 Resp: 188025

Ion Ratio Lower Upper

95 100

174 98.5 0.0 191.0

176 94.8 0.0 185.2

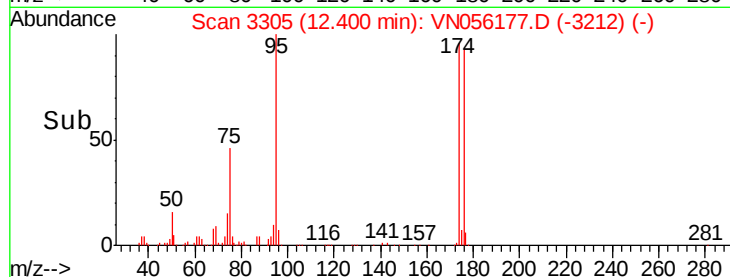


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

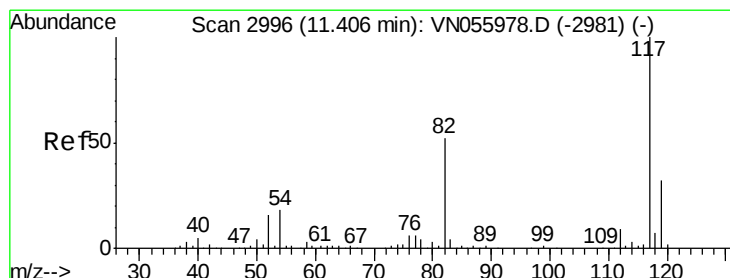
Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

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

12.40



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056177.D

Acq: 10 Jun 2019 18:18

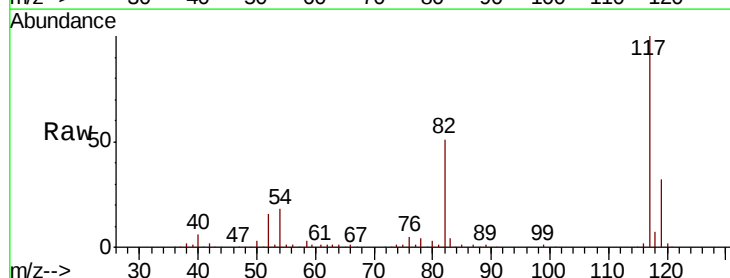
Tgt Ion: 117 Resp: 469409

Ion Ratio Lower Upper

117 100

82 51.3 41.8 62.8

119 32.4 25.4 38.0

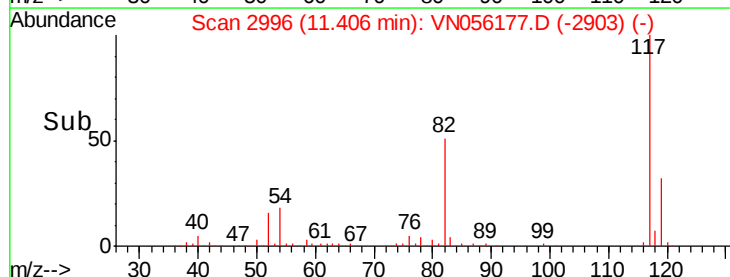


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

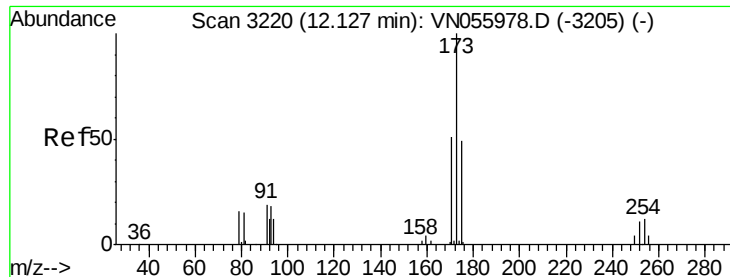
Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

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

11.41



Time-->



#71

Bromoform

Concen: 3.225 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056177.D

Acq: 10 Jun 2019 18:18

Instrument :

MSVOA\_N

ClientSampleId :

BP-TT-SW4003-20190608

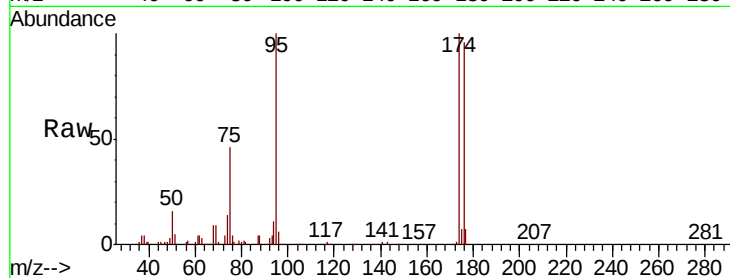
Tot Ion:173 Resp: 1383

Ion Ratio Lower Upper

173 100

175 814.4 24.3 72.8#

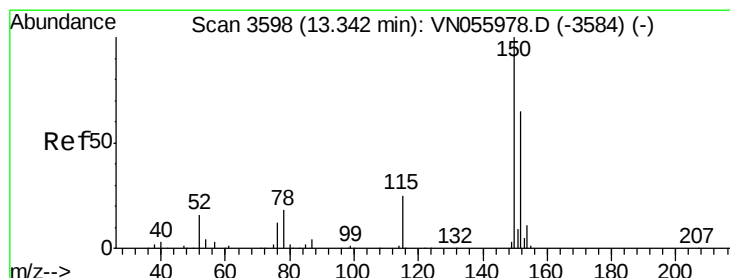
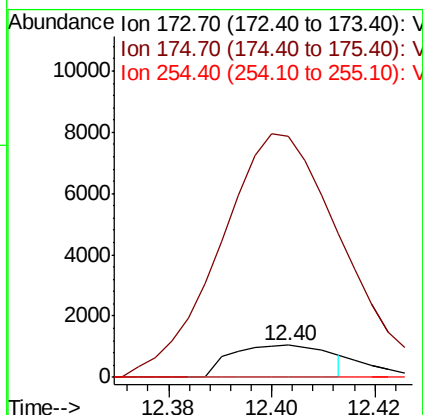
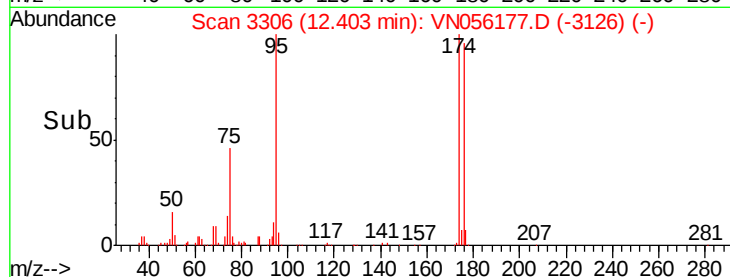
254 0.0 0.0 0.0



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: VN056177.D

Acq: 10 Jun 2019 18:18

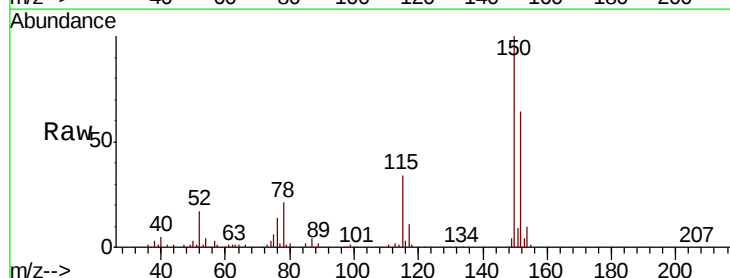
Tgt Ion:152 Resp: 137179

Ion Ratio Lower Upper

152 100

115 52.9 27.0 81.0

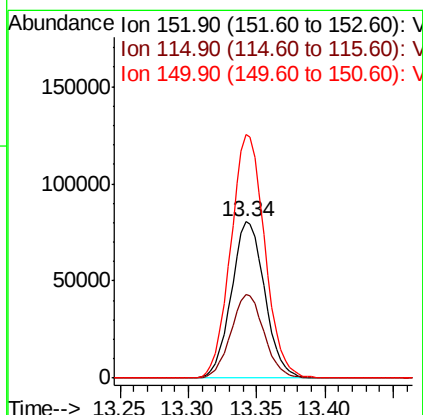
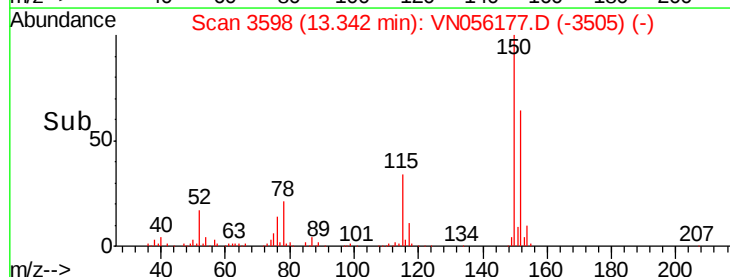
150 157.9 0.0 343.2

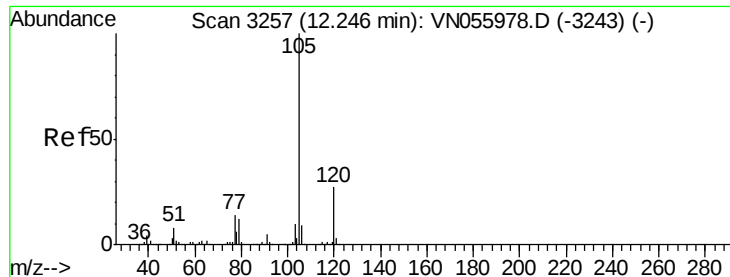


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN056177.D

Acq: 10 Jun 2019 18:18

Instrument :

MSVOA\_N

ClientSampleId :

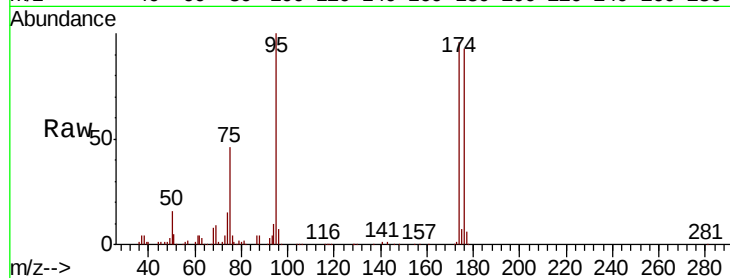
BP-TT-SW4003-20190608

Tot Ion: 105 Resp: 89

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

12.40

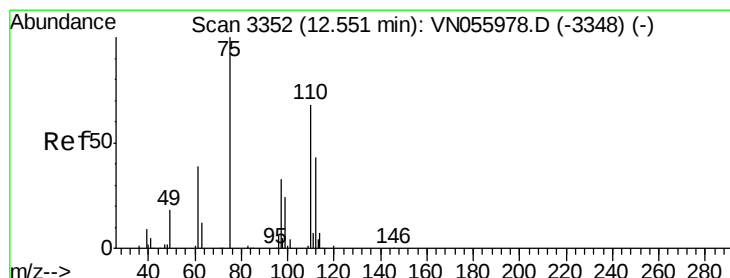
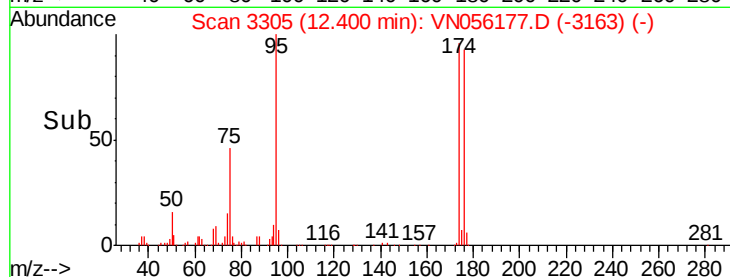
150

100

50

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 34.482 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056177.D

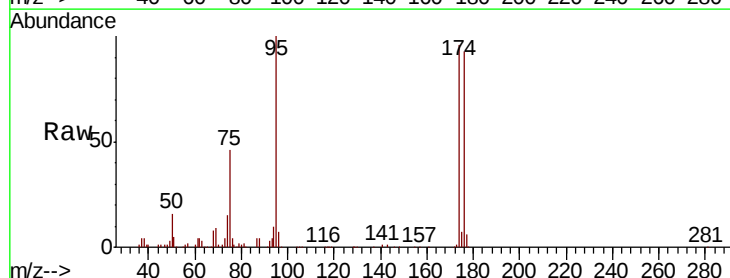
Acq: 10 Jun 2019 18:18

Tgt Ion: 75 Resp: 87037

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

60000

50000

40000

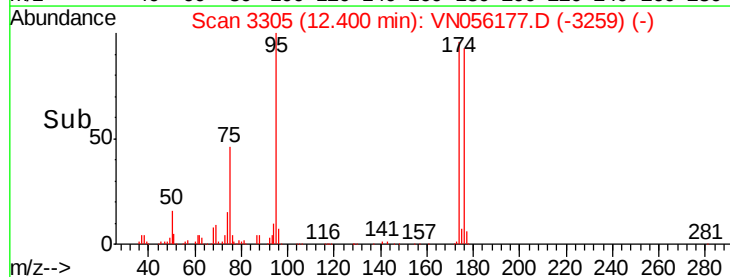
30000

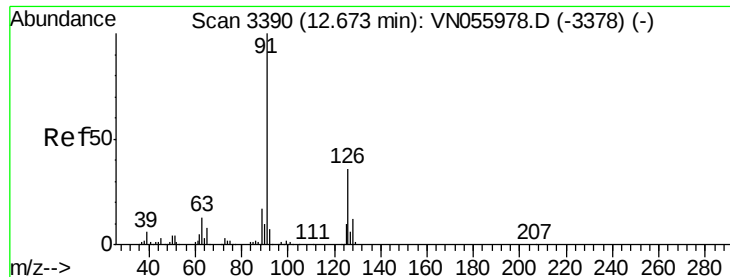
20000

10000

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056177.D

Acq: 10 Jun 2019 18:18

Instrument :

MSVOA\_N

ClientSampleId :

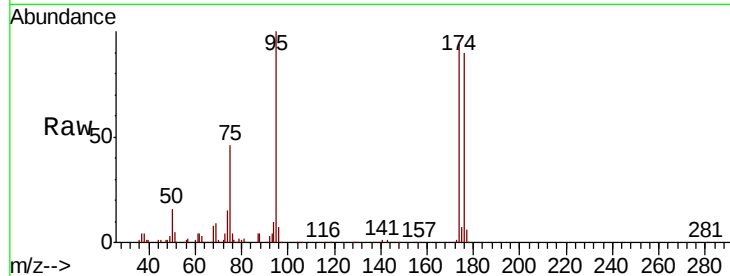
BP-TT-SW4003-20190608

Tot Ion: 91 Resp: 450

Ion Ratio Lower Upper

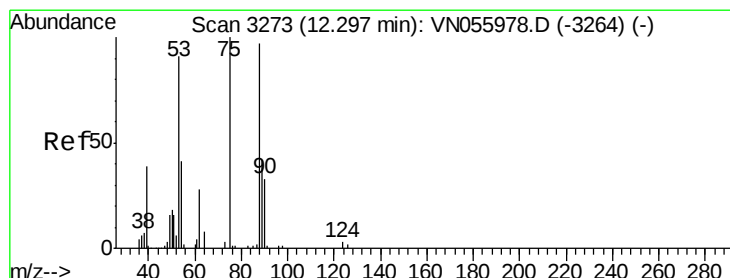
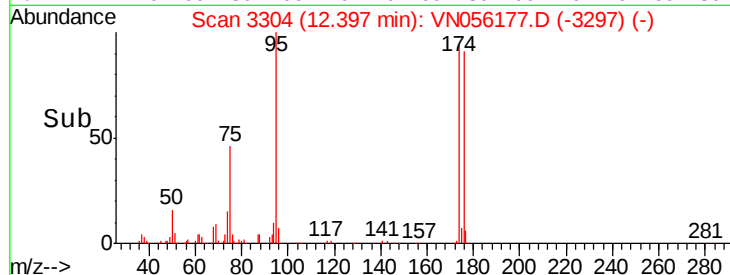
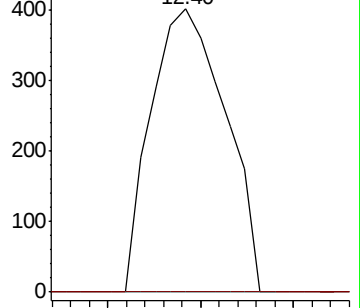
91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 114.830 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056177.D

Acq: 10 Jun 2019 18:18

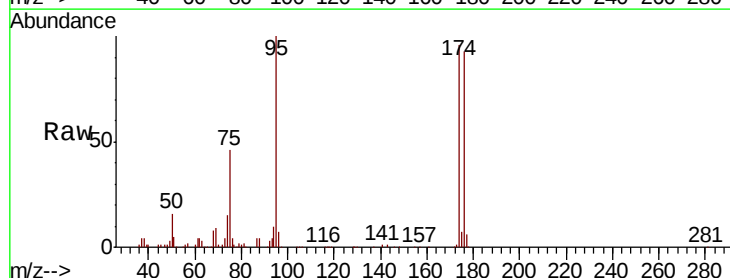
Tgt Ion: 75 Resp: 87037

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



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

