

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\  
 Data File : VN061977.D  
 Acq On : 20 Jun 2020 5:15  
 Operator : JC/MD  
 Sample : L3043-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW203D1-20200614

Quant Time: Jun 23 12:03:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

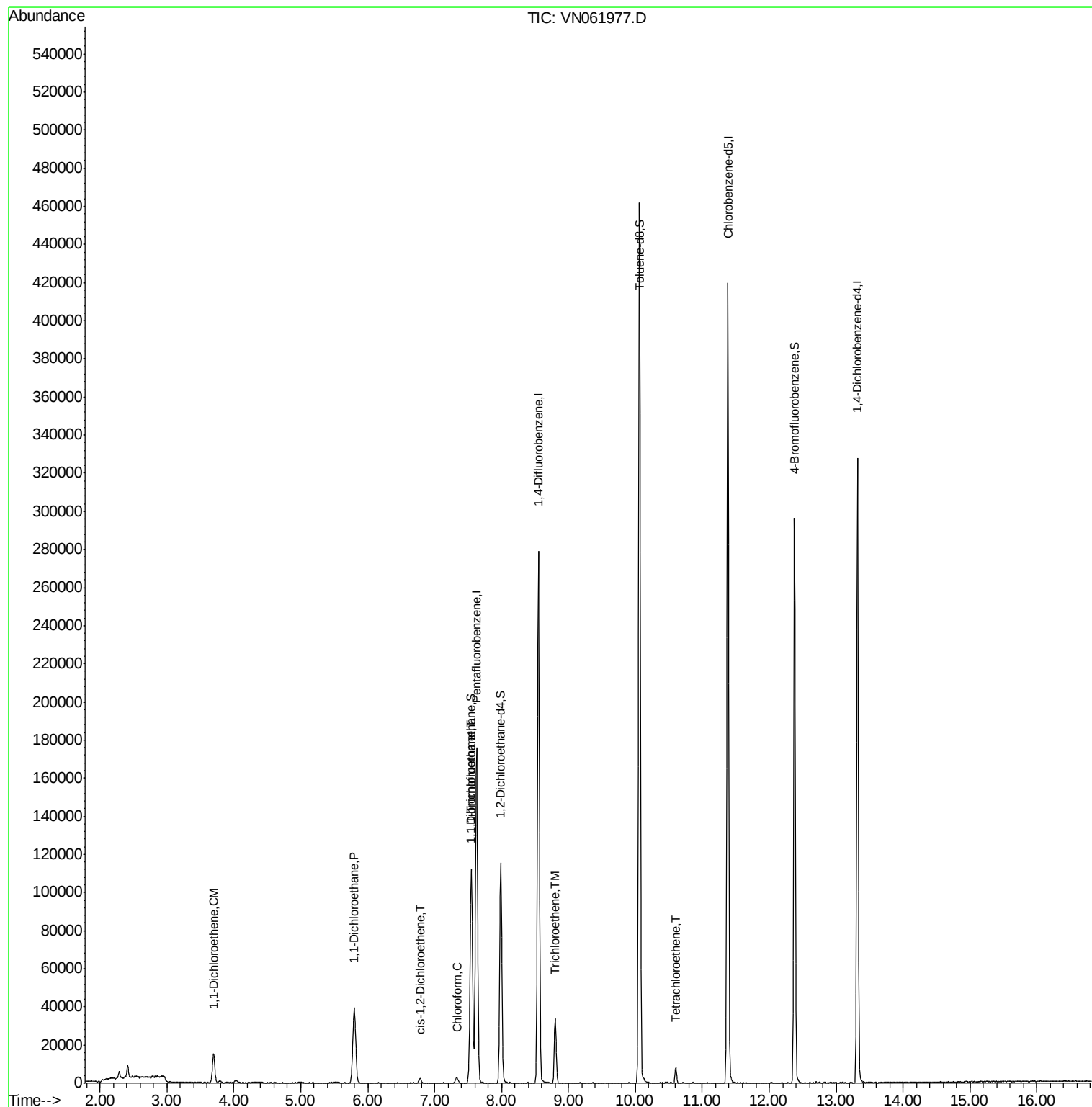
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.63  | 168  | 138959   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.55  | 114  | 261052   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.38 | 117  | 247999   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.32 | 152  | 89335    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 96721    | 51.90  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.80% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 84413    | 50.54  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.08% |          |
| 50) Toluene-d8              | 10.06 | 98   | 327831   | 49.93  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 99.86%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 104390   | 46.35  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 92.70%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 12) 1,1-Dichloroethene      | 3.70  | 96   | 8431     | 5.971  | ug/l    | 96       |
| 24) 1,1-Dichloroethane      | 5.80  | 63   | 60860    | 21.693 | ug/l    | 98       |
| 27) cis-1,2-Dichloroethene  | 6.78  | 96   | 1693     | 0.905  | ug/l    | 76       |
| 30) Chloroform              | 7.33  | 83   | 3440     | 1.147  | ug/l    | 100      |
| 32) 1,1,1-Trichloroethane   | 7.53  | 97   | 8430     | 3.301  | ug/l    | 96       |
| 44) Trichloroethene         | 8.80  | 130  | 13065    | 6.883  | ug/l    | 96       |
| 64) Tetrachloroethene       | 10.60 | 164  | 1833     | 1.160  | ug/l    | 88       |

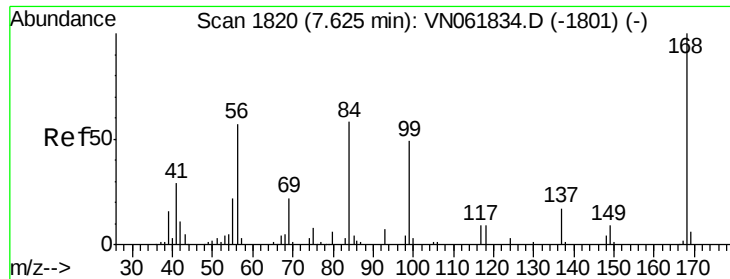
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jun 17 01:19:44 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: VN061977.D

Acq: 20 Jun 2020 5:15

Instrument :

MSVOA\_N

ClientSampleId :

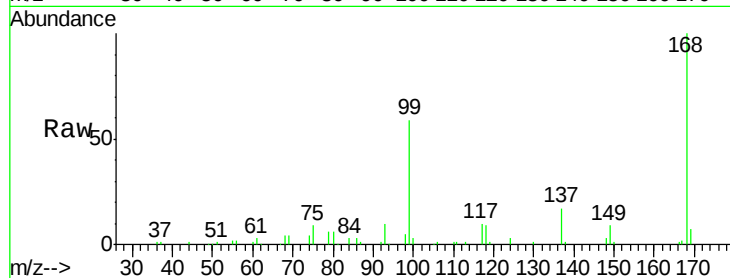
MW203D1-20200614

Tot Ion:168 Resp: 138959

Ion Ratio Lower Upper

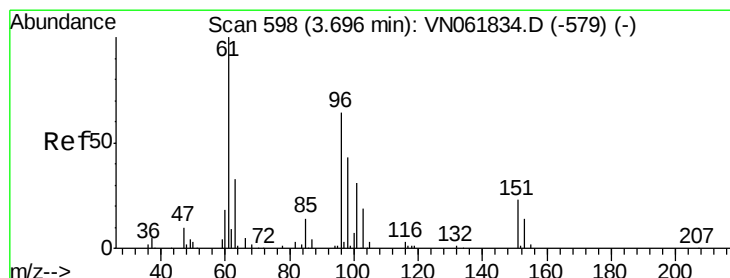
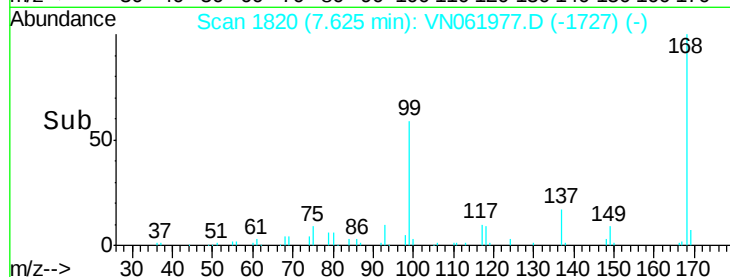
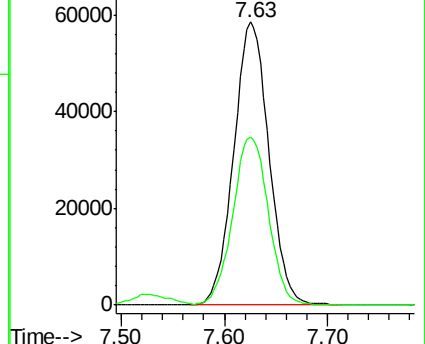
168 100

99 59.4 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#12

1,1-Dichloroethene

Concen: 5.971 ug/l

RT: 3.70 min Scan# 599

Delta R.T. 0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

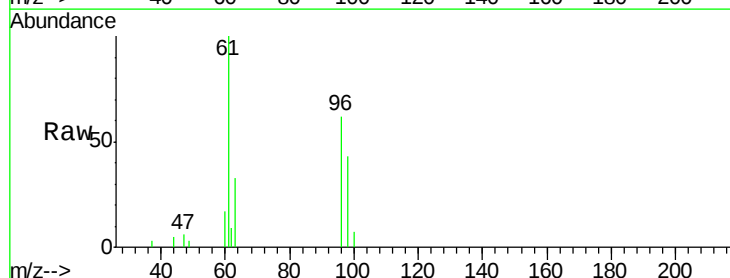
Tgt Ion: 96 Resp: 8431

Ion Ratio Lower Upper

96 100

61 161.5 124.3 186.5

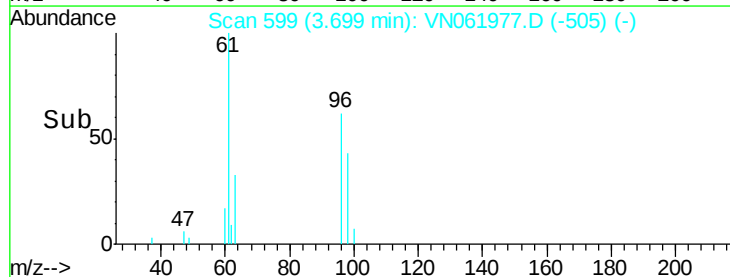
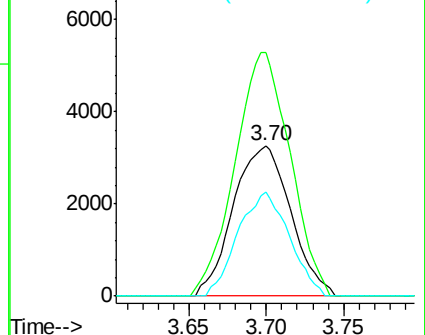
98 69.1 53.1 79.7

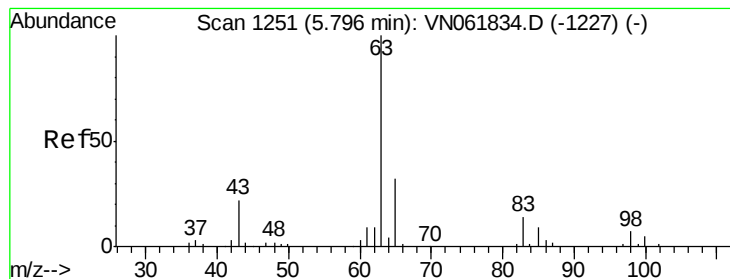


Abundance Ion 95.90 (95.60 to 96.60): VN

Ion 60.90 (60.60 to 61.60): VN

Ion 97.90 (97.60 to 98.60): VN





#24

1,1-Dichloroethane

Concen: 21.693 ug/l

RT: 5.80 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

Instrument :

MSVOA\_N

ClientSampleId :

MW203D1-20200614

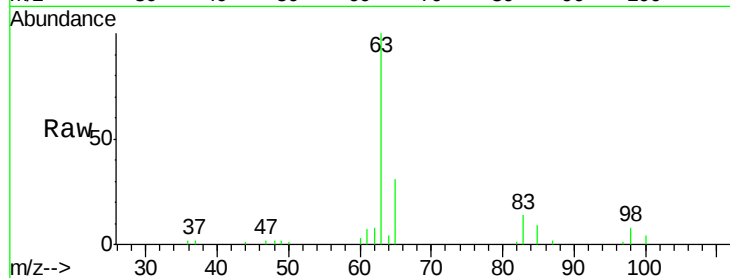
Tot Ion: 63 Resp: 60860

Ion Ratio Lower Upper

63 100

98 7.8 3.5 10.4

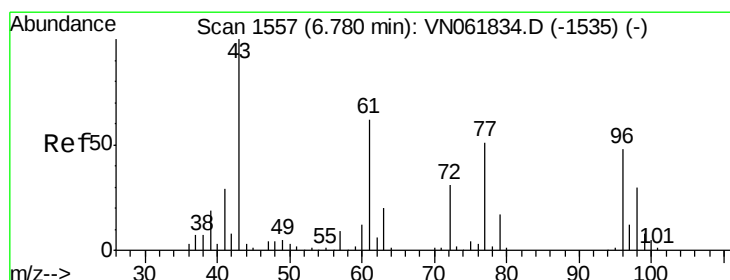
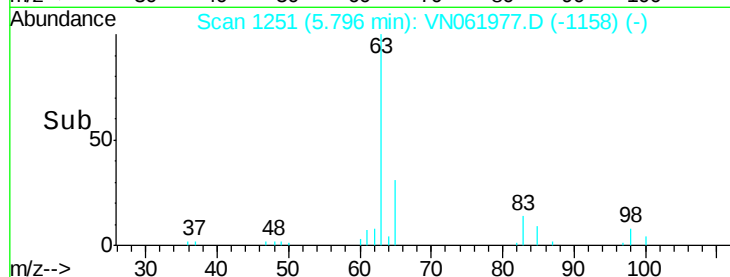
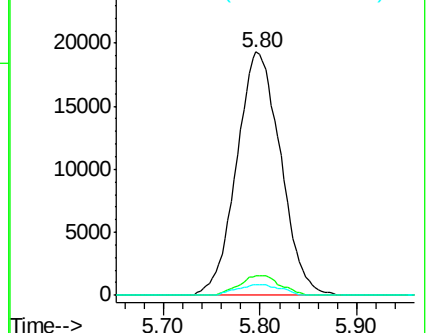
100 4.5 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VN061834.D (-1227) (-)

Ion 97.90 (97.60 to 98.60): VN061834.D (-1227) (-)

Ion 99.90 (99.60 to 100.60): VN061834.D (-1227) (-)



#27

cis-1,2-Dichloroethene

Concen: 0.905 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

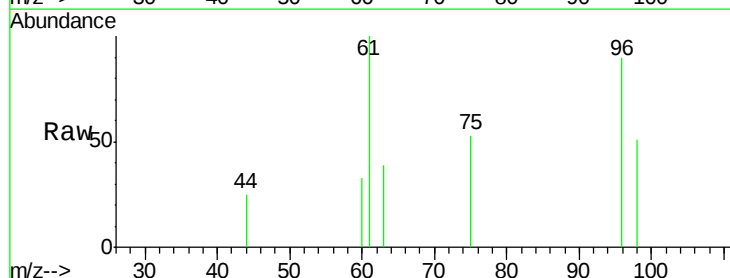
Tgt Ion: 96 Resp: 1693

Ion Ratio Lower Upper

96 100

61 101.8 0.0 265.6

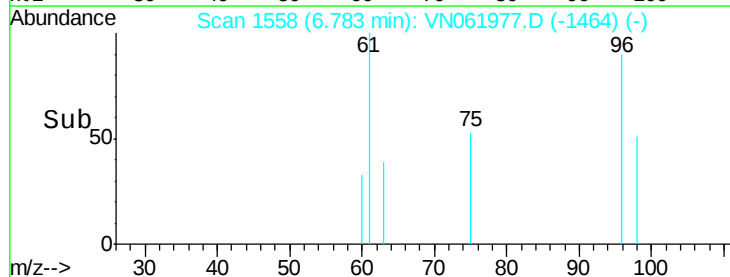
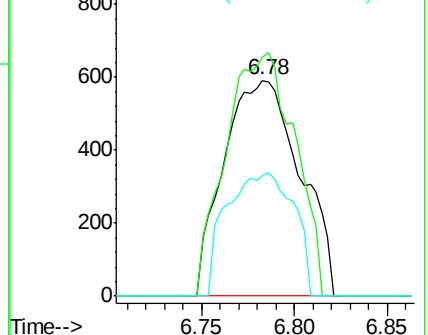
98 50.0 0.0 128.2

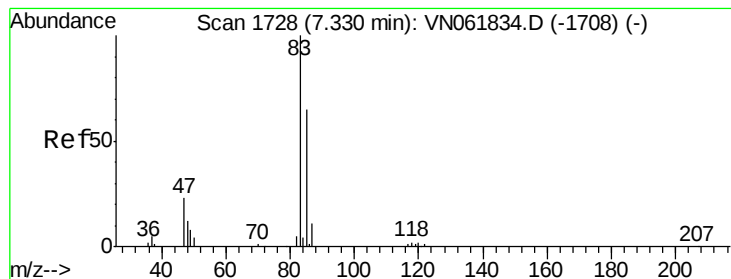


Abundance Ion 95.90 (95.60 to 96.60): VN061834.D (-1535) (-)

Ion 60.90 (60.60 to 61.60): VN061834.D (-1535) (-)

Ion 97.90 (97.60 to 98.60): VN061834.D (-1535) (-)





#30

Chloroform

Concen: 1.147 ug/l

RT: 7.33 min Scan# 1728

Delta R.T. -0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

Instrument :

MSVOA\_N

ClientSampleId :

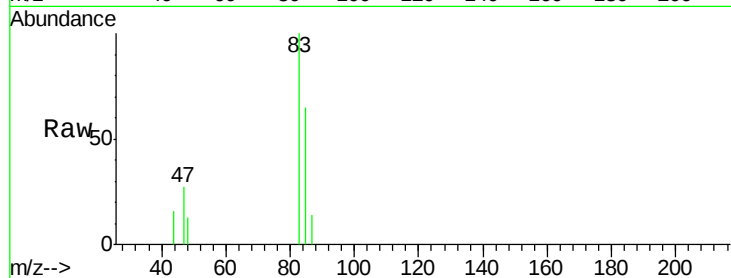
MW203D1-20200614

Tot Ion: 83 Resp: 3440

Ion Ratio Lower Upper

83 100

85 64.8 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VN061834.D (-1708) (-)

Ion 84.90 (84.60 to 85.60): VN061834.D (-1708) (-)

7.33

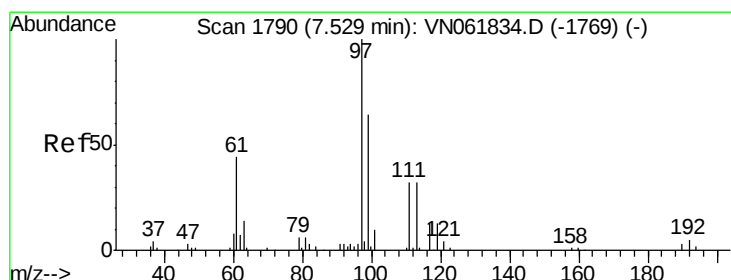
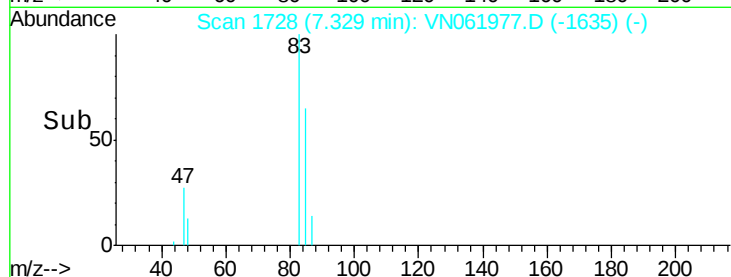
1500

1000

500

0

Time--> 7.25 7.30 7.35 7.40



#32

1,1,1-Trichloroethane

Concen: 3.301 ug/l

RT: 7.53 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

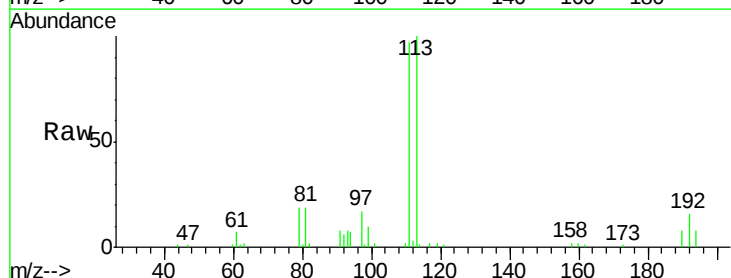
Tgt Ion: 97 Resp: 8430

Ion Ratio Lower Upper

97 100

99 69.4 51.5 77.3

61 43.1 35.1 52.7



Abundance Ion 96.90 (96.60 to 97.60): VN061834.D (-1769) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-1769) (-)

Ion 60.90 (60.60 to 61.60): VN061834.D (-1769) (-)

40000

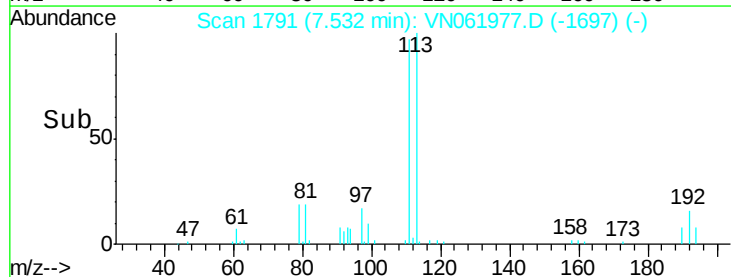
30000

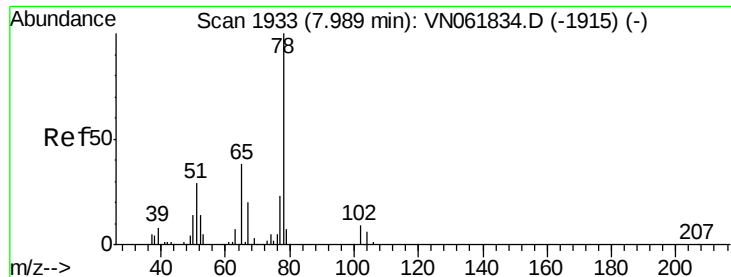
20000

10000

0

Time--> 7.45 7.50 7.55 7.60

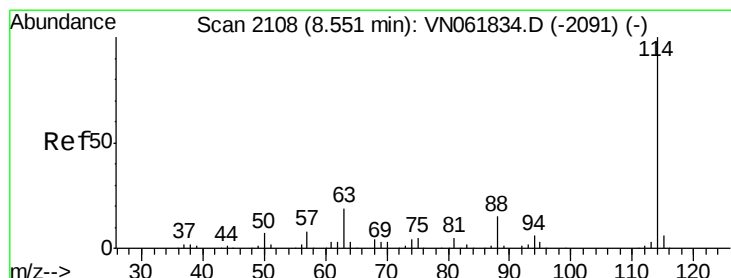
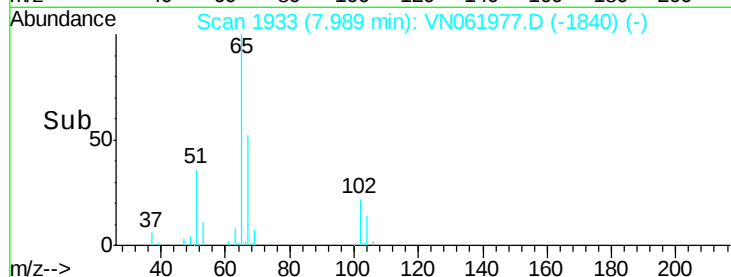
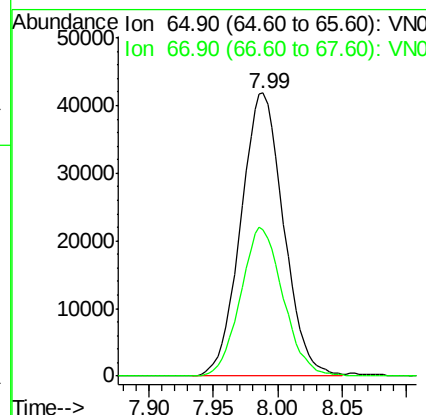
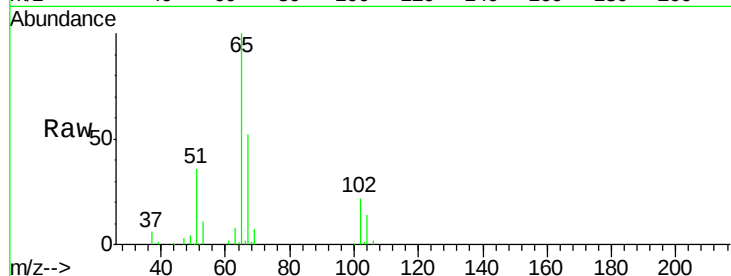




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.899 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. -0.00 min  
 Lab File: VN061977.D  
 Acq: 20 Jun 2020 5:15

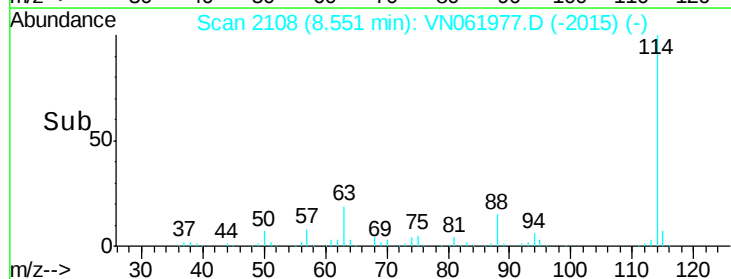
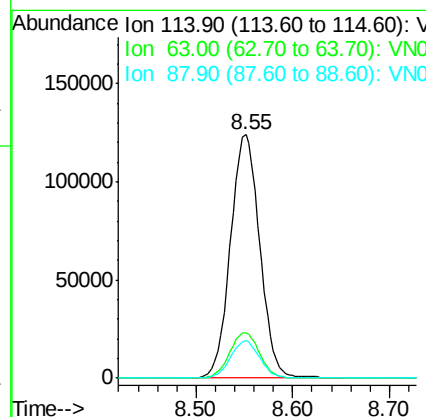
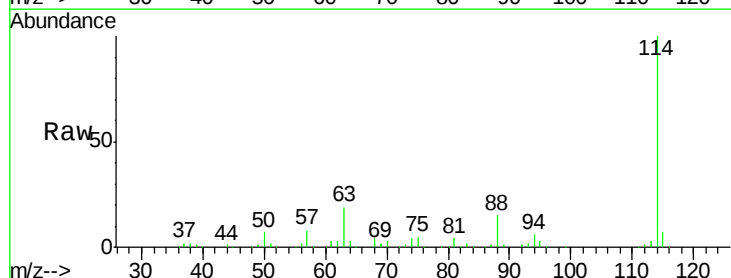
Instrument :  
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 MW203D1-20200614

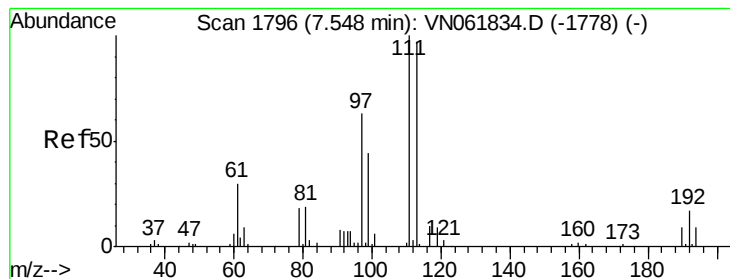
Tot Ion: 65 Resp: 96721  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061977.D  
 Acq: 20 Jun 2020 5:15

Tgt Ion: 114 Resp: 261052  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 37.6  
 88 15.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.544 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

Instrument :

MSVOA\_N

ClientSampleId :

MW203D1-20200614

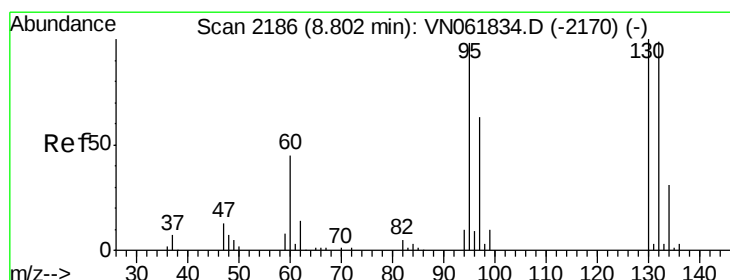
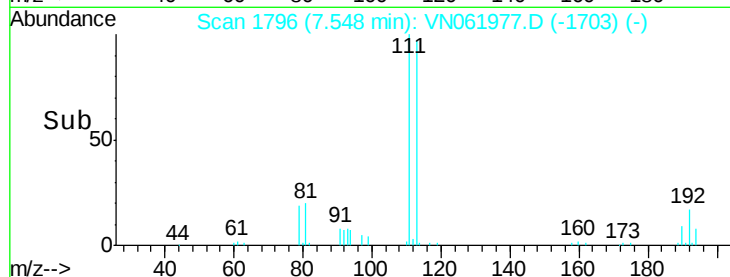
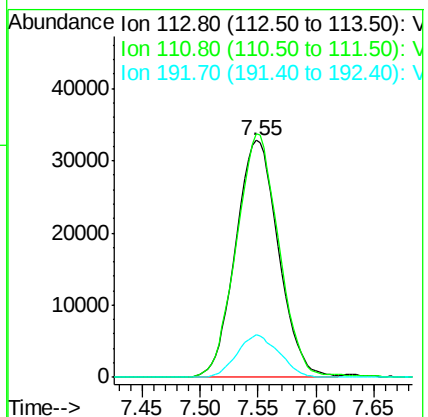
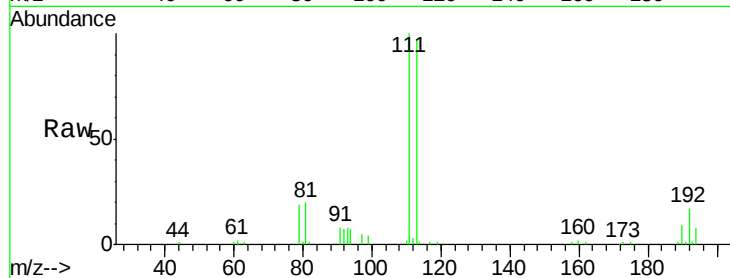
Tot Ion:113 Resp: 84413

Ion Ratio Lower Upper

113 100

111 101.1 83.7 125.5

192 17.5 13.9 20.9



#44

Trichloroethene

Concen: 6.883 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN061977.D

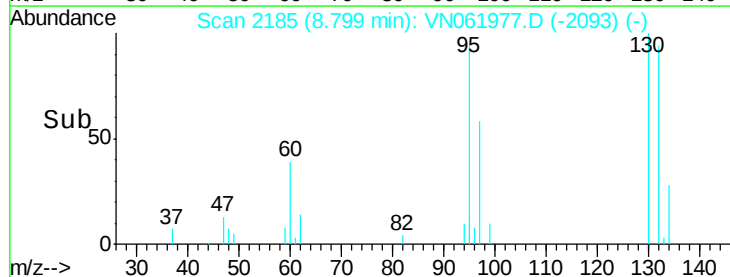
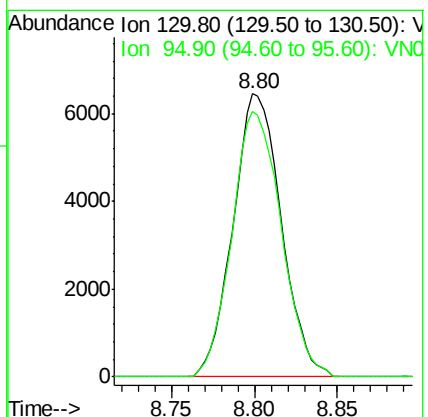
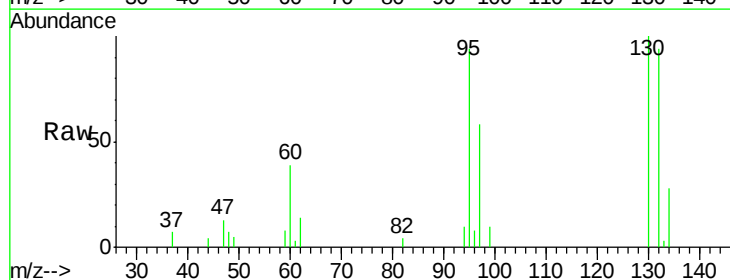
Acq: 20 Jun 2020 5:15

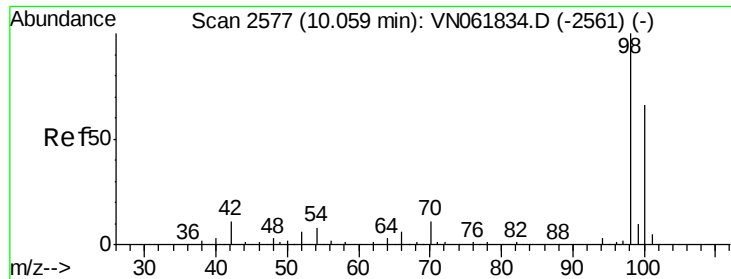
Tgt Ion:130 Resp: 13065

Ion Ratio Lower Upper

130 100

95 93.7 0.0 195.6





#50

Toluene-d8

Concen: 49.931 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

Instrument :

MSVOA\_N

ClientSampleId :

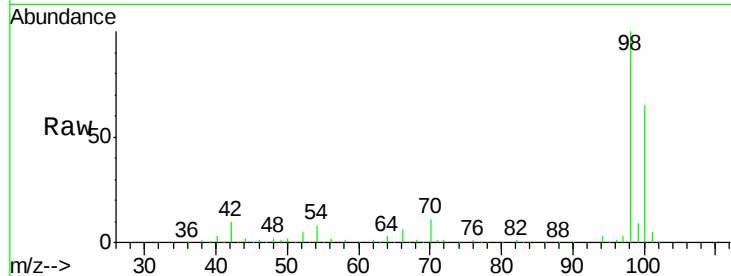
MW203D1-20200614

Tot Ion: 98 Resp: 327831

Ion Ratio Lower Upper

98 100

100 64.8 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

150000

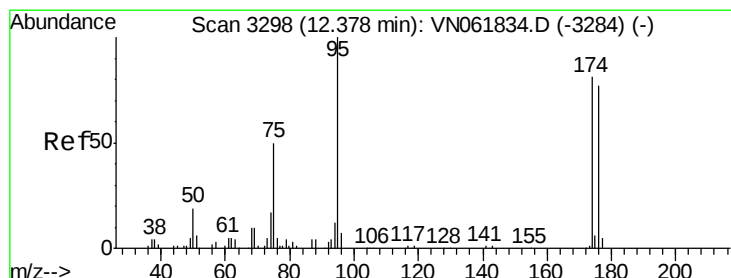
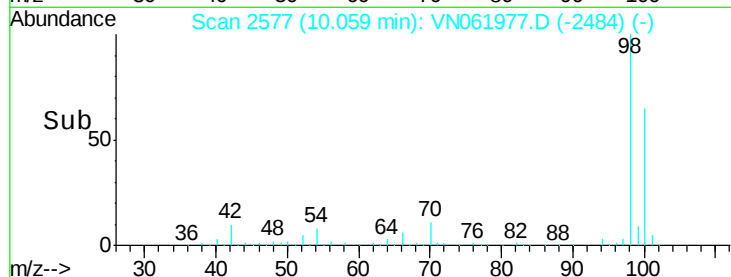
100000

50000

0

10.00 10.10 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 46.351 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

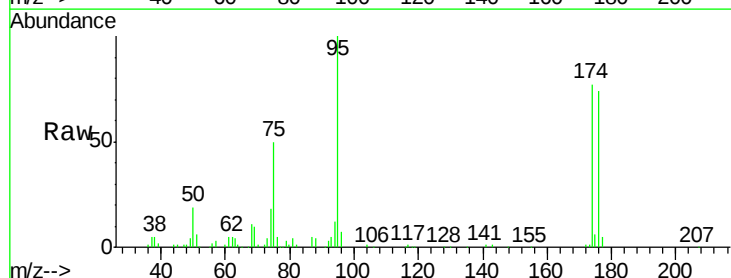
Tgt Ion: 95 Resp: 104390

Ion Ratio Lower Upper

95 100

174 77.5 0.0 158.6

176 74.2 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

12.38

80000

60000

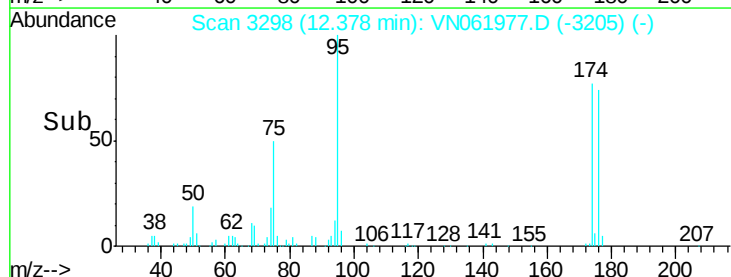
40000

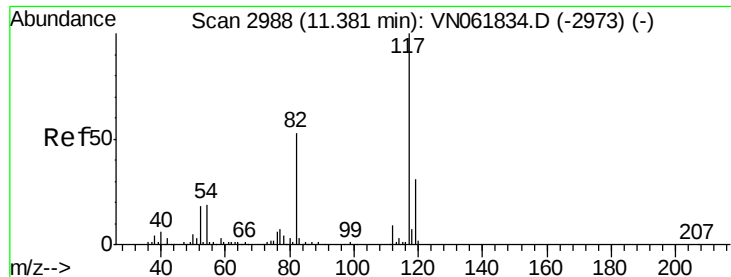
20000

0

12.30 12.40

Time-->

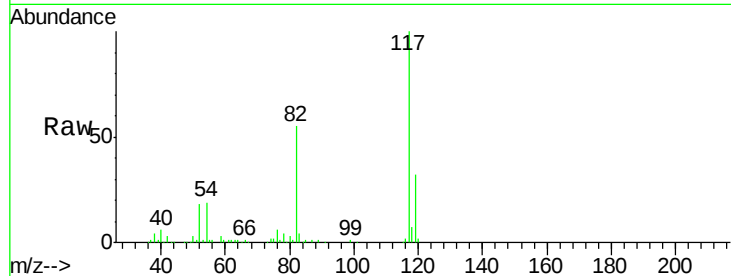




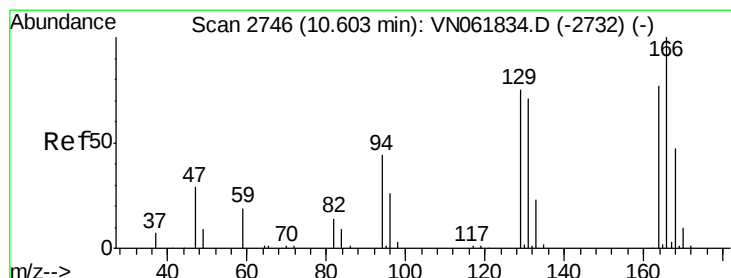
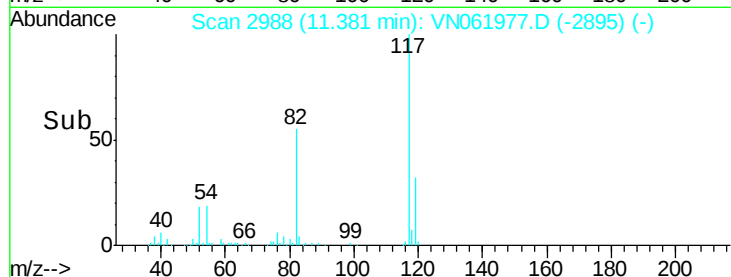
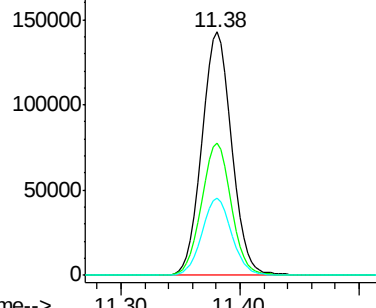
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN061977.D  
Acq: 20 Jun 2020 5:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW203D1-20200614

Tot Ion:117 Resp: 247999  
Ion Ratio Lower Upper  
117 100  
82 54.6 42.6 64.0  
119 31.7 24.7 37.1

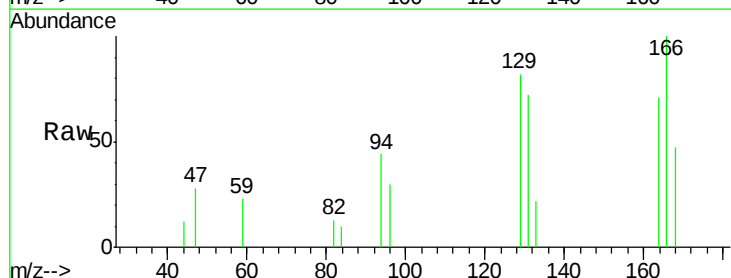


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

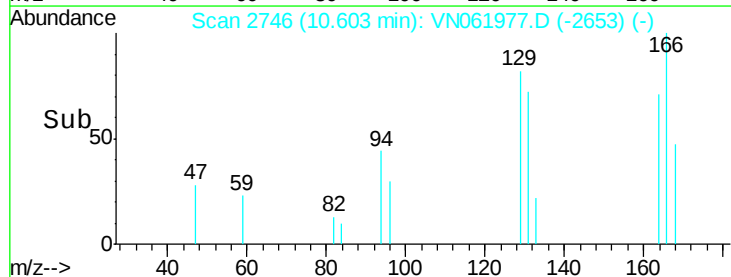
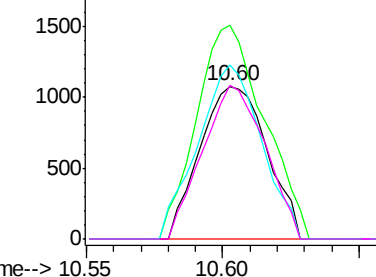


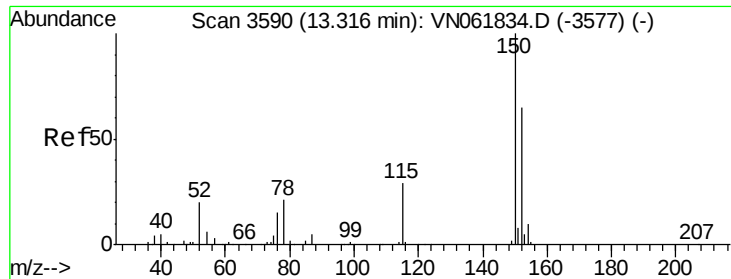
#64  
Tetrachloroethene  
Concen: 1.160 ug/l  
RT: 10.60 min Scan# 2746  
Delta R.T. -0.00 min  
Lab File: VN061977.D  
Acq: 20 Jun 2020 5:15

Tgt Ion:164 Resp: 1833  
Ion Ratio Lower Upper  
164 100  
166 140.2 103.5 155.3  
129 114.4 77.5 116.3  
131 100.7 73.8 110.8



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061977.D

Acq: 20 Jun 2020 5:15

Instrument :

MSVOA\_N

ClientSampleId :

MW203D1-20200614

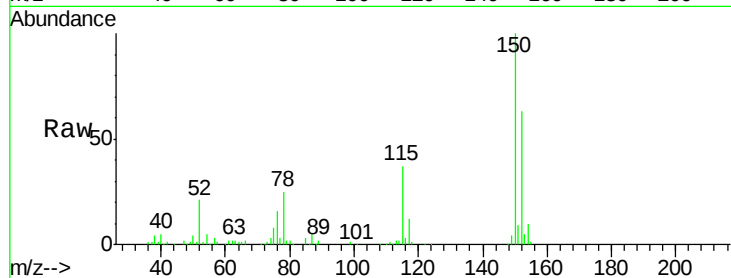
Tot Ion:152 Resp: 89335

Ion Ratio Lower Upper

152 100

115 58.6 29.1 87.3

150 158.4 0.0 347.6



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

