

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121915\  
 Data File : BG020280.D  
 Acq On : 18 Dec 2015 18:16  
 Operator : UM/SJ  
 Sample : G4768-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N27

Quant Time: Dec 19 00:48:56 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Dec 19 00:45:12 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 14348    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.91 | 136  | 64134    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.73 | 164  | 47399    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.47 | 188  | 121285   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.74 | 240  | 159852   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.02 | 264  | 148492   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.46  | 96  | 144    | 0.55  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.24  | 99  | 6282   | 4.97  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.41  | 67  | 17532  | 23.22 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.62  | 132 | 17911  | 19.46 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.79  | 113 | 13439  | 12.42 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.26  | 128 | 12217  | 24.44 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.98  | 143 | 14296  | 25.70 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.53 | 165 | 24975  | 22.16 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.05 | 131 | 126    | 0.10  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.12 | 166 | 98776  | 25.76 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.42 | 160 | 109852 | 24.63 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.91 | 143 | 2786   | 4.05  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.71 | 176 | 87397  | 25.13 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.83 | 200 | 12467  | 17.34 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.56 | 188 | 143043 | 25.60 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.85 | 212 | 171205 | 22.98 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.79 | 264 | 121201 | 16.36 | ng/ul | 0.00 |

## Target Compounds

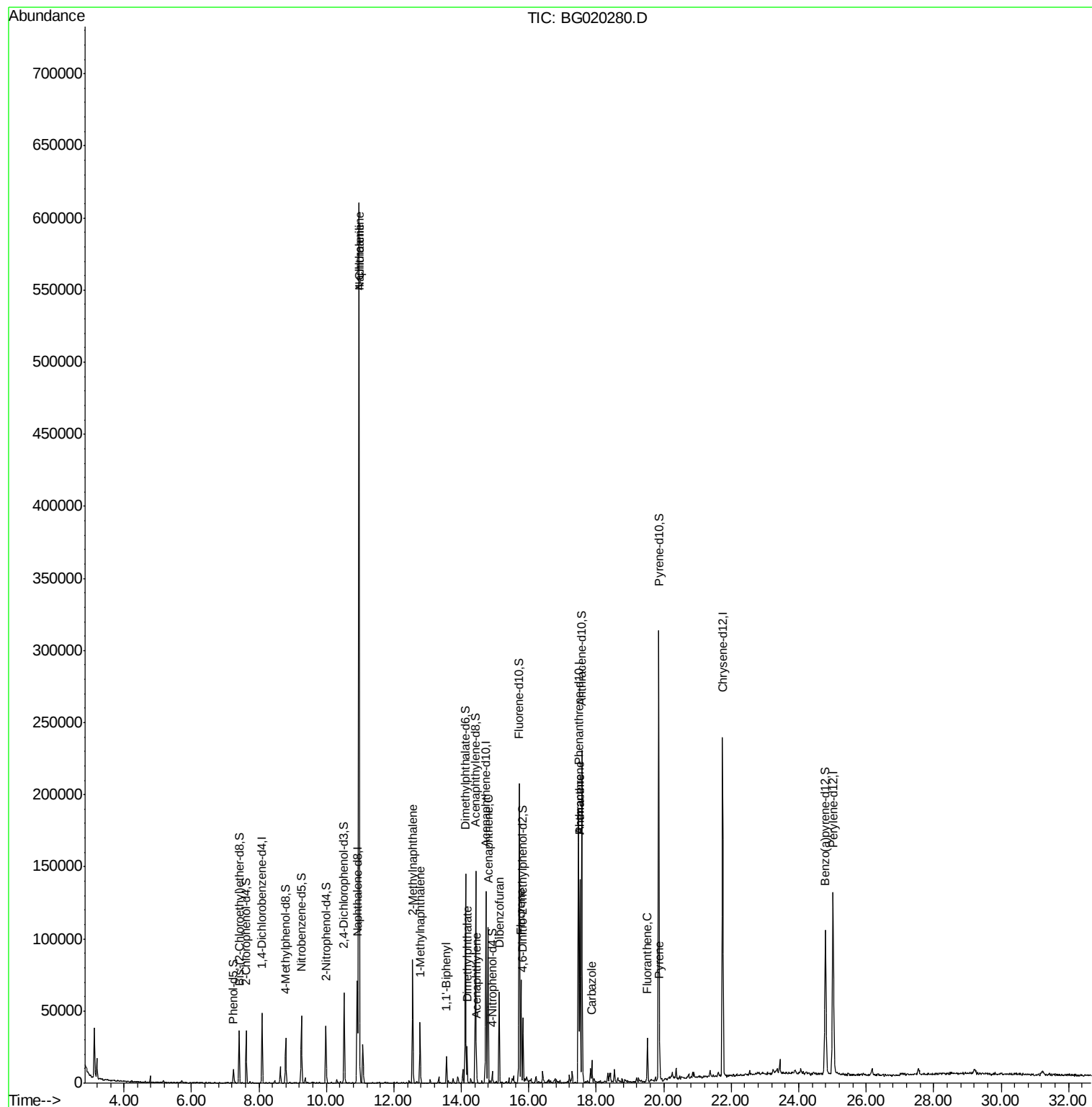
|                         |       |     |        |        |        | Qvalue |
|-------------------------|-------|-----|--------|--------|--------|--------|
| 28) Naphthalene         | 10.97 | 128 | 523944 | 156.44 | ng/ul  | 99     |
| 30) 4-Chloroaniline     | 10.97 | 127 | 71532  | 55.36  | ng/ul# | 8      |
| 34) 2-Methylnaphthalene | 12.56 | 142 | 40224  | 15.72  | ng/ul  | 97     |
| 35) 1-Methylnaphthalene | 12.78 | 142 | 20426  | 8.31   | ng/ul  | 98     |
| 41) 1,1'-Biphenyl       | 13.56 | 154 | 11317  | 3.16   | ng/ul  | 98     |
| 45) Dimethylphthalate   | 14.17 | 163 | 17064  | 4.36   | ng/ul  | 98     |
| 48) Acenaphthylene      | 14.45 | 152 | 5651   | 1.19   | ng/ul  | 100    |
| 50) Acenaphthene        | 14.79 | 153 | 47186  | 14.80  | ng/ul  | 98     |
| 54) Dibenzofuran        | 15.12 | 168 | 42688  | 9.00   | ng/ul  | 96     |
| 59) Fluorene            | 15.77 | 166 | 33230  | 8.72   | ng/ul  | 99     |
| 70) Phenanthrene        | 17.51 | 178 | 88432  | 13.33  | ng/ul  | 98     |
| 72) Anthracene          | 17.51 | 178 | 88432  | 13.14  | ng/ul  | 99     |
| 75) Carbazole           | 17.87 | 167 | 11071  | 1.96   | ng/ul  | 98     |
| 77) Fluoranthene        | 19.51 | 202 | 21255  | 2.74   | ng/ul# | 96     |
| 80) Pyrene              | 19.88 | 202 | 13932  | 1.44   | ng/ul# | 96     |

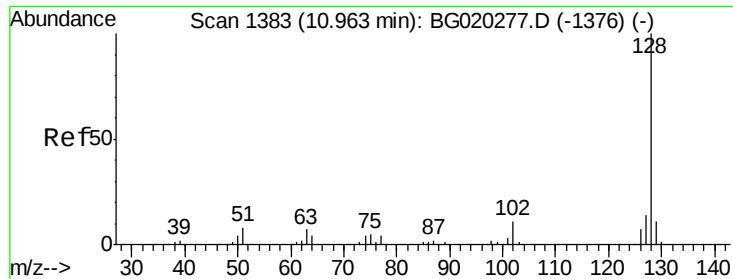
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Sat Dec 19 00:45:12 2015  
Response via : Initial Calibration





#28

Naphthalene

Concen: 156.44 ng/ul

RT: 10.97 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

Instrument :

BNA\_G

ClientSampleId :

D9N27

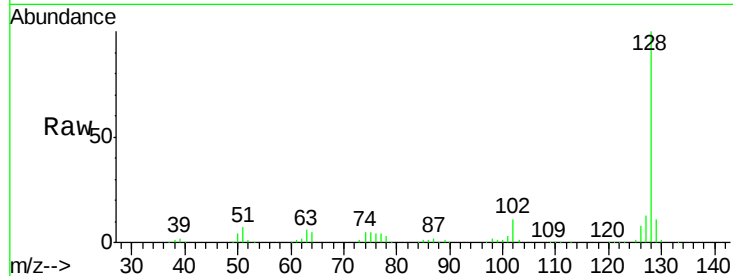
Tgt Ion:128 Resp: 523944

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

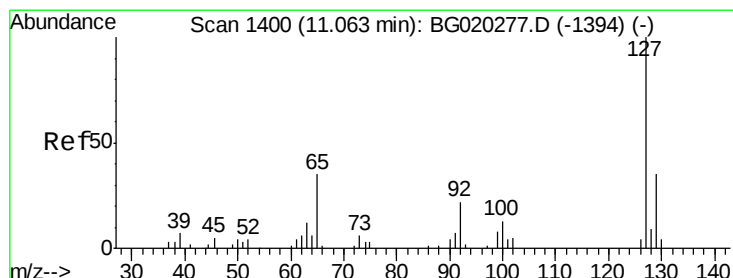
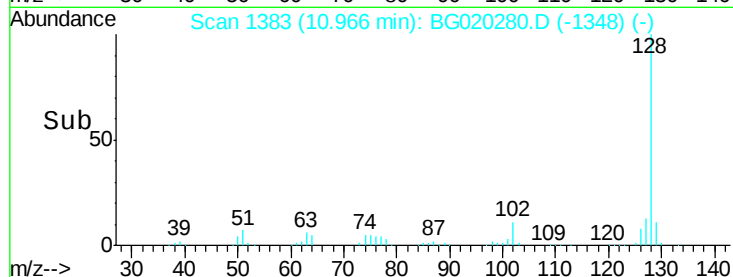
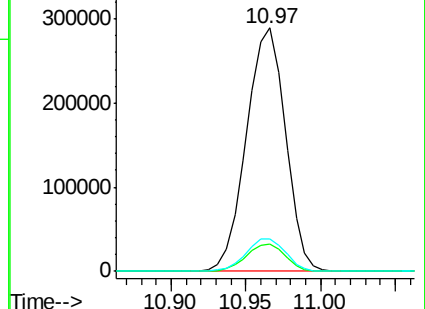
127 13.3 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#30

4-Chloroaniline

Concen: 55.36 ng/ul

RT: 10.97 min Scan# 1383

Delta R.T. -0.10 min

Lab File: BG020280.D

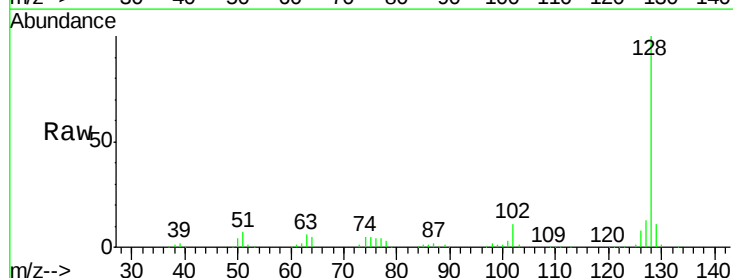
Acq: 18 Dec 2015 18:16

Tgt Ion:127 Resp: 71532

Ion Ratio Lower Upper

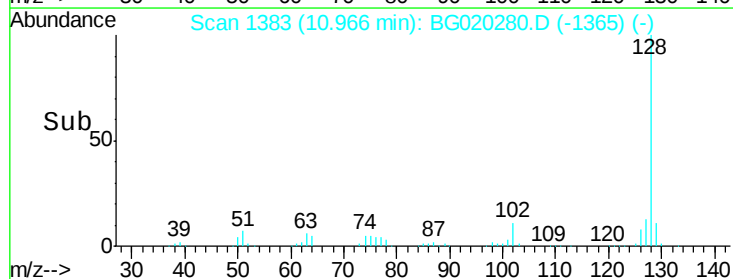
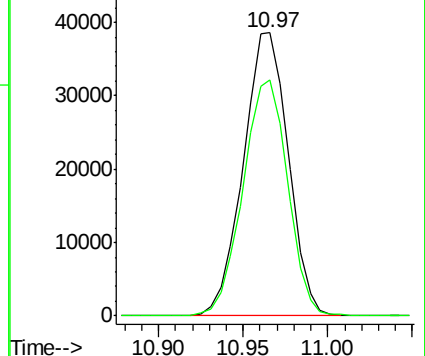
127 100

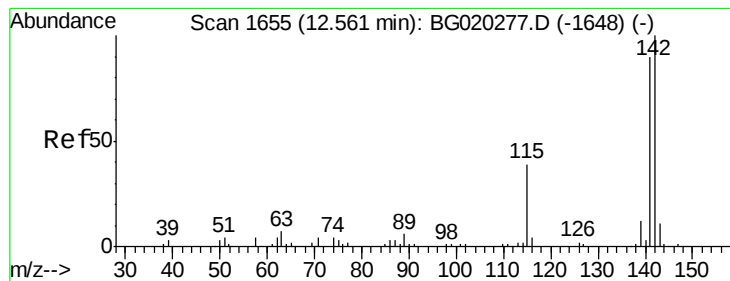
129 83.2 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E





#34

2-Methylnaphthalene

Concen: 15.72 ng/ul

RT: 12.56 min Scan# 1654

Delta R.T. -0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

Instrument :

BNA\_G

ClientSampleId :

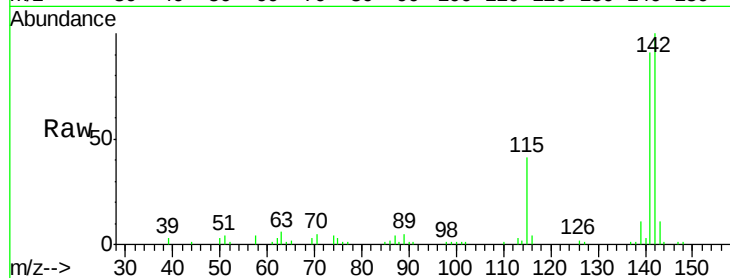
D9N27

Tgt Ion:142 Resp: 40224

Ion Ratio Lower Upper

142 100

141 91.1 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.56

25000

20000

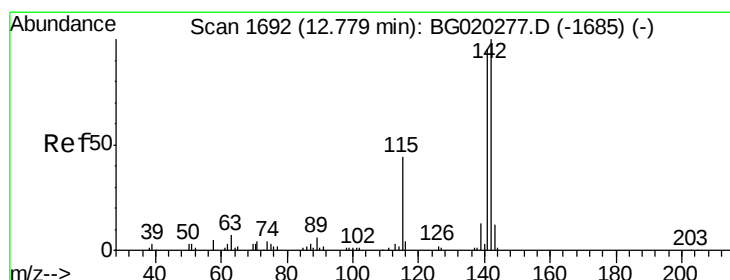
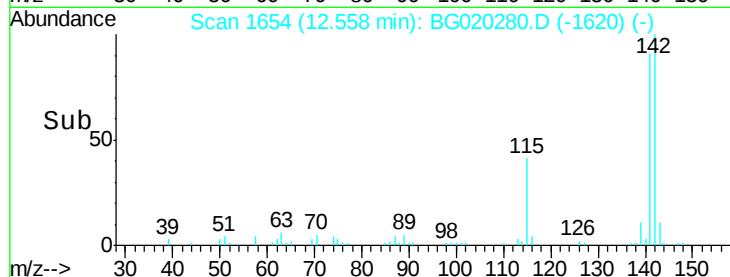
15000

10000

5000

0

Time-->



#35

1-Methylnaphthalene

Concen: 8.31 ng/ul

RT: 12.78 min Scan# 1691

Delta R.T. -0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

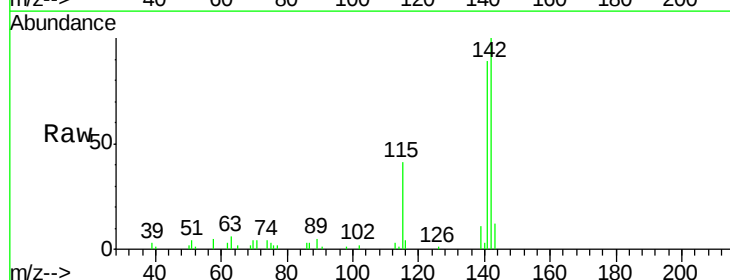
Tgt Ion:142 Resp: 20426

Ion Ratio Lower Upper

142 100

141 88.9 73.0 109.6

116 4.0 3.0 4.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

12.78

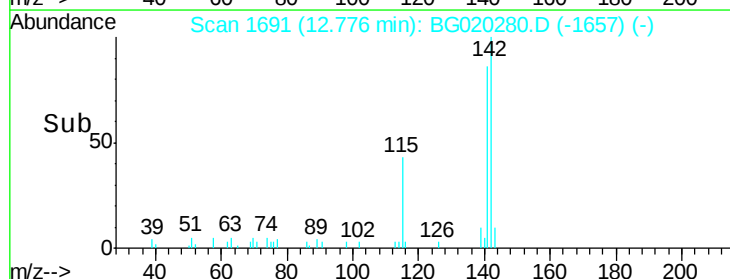
15000

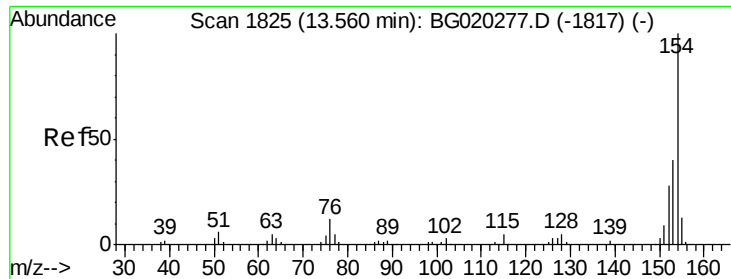
10000

5000

0

Time-->

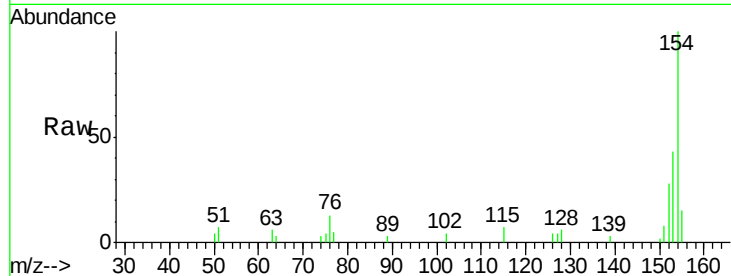




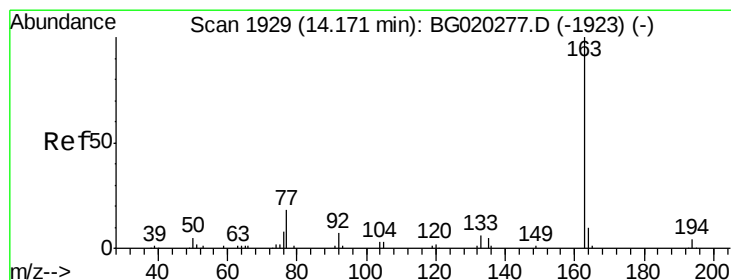
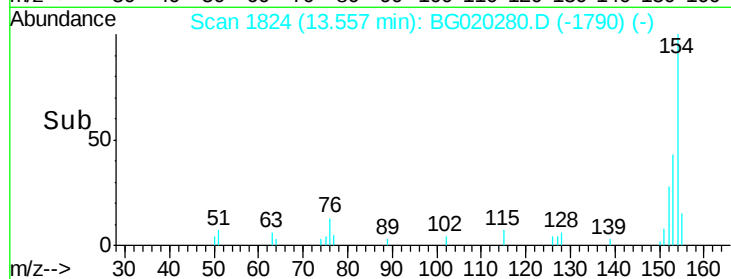
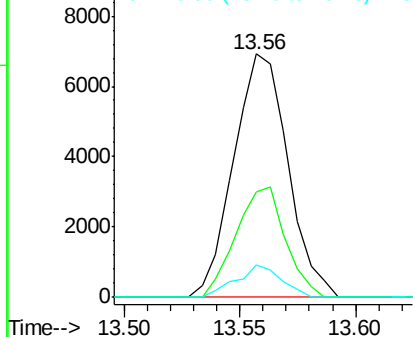
#41  
 1,1'-Biphenyl  
 Concen: 3.16 ng/ul  
 RT: 13.56 min Scan# 1824  
 Delta R.T. -0.00 min  
 Lab File: BG020280.D  
 Acq: 18 Dec 2015 18:16

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N27

Tgt Ion:154 Resp: 11317  
 Ion Ratio Lower Upper  
 154 100  
 153 43.1 35.5 53.3  
 76 13.2 10.4 15.6

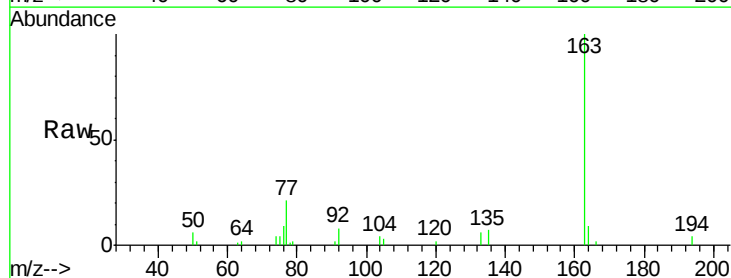


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): B

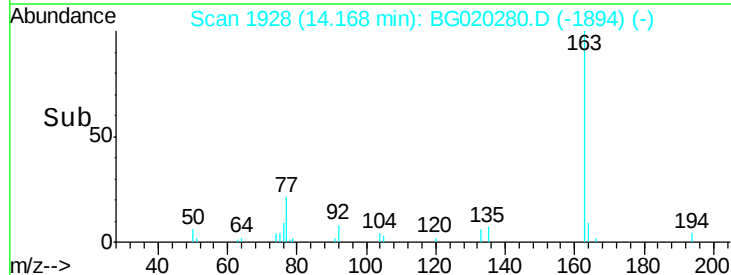
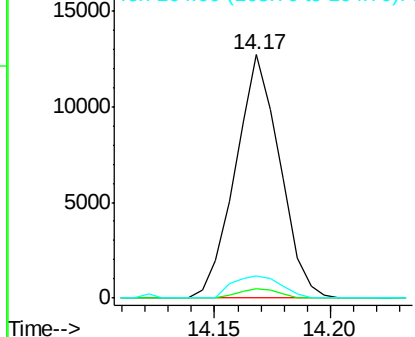


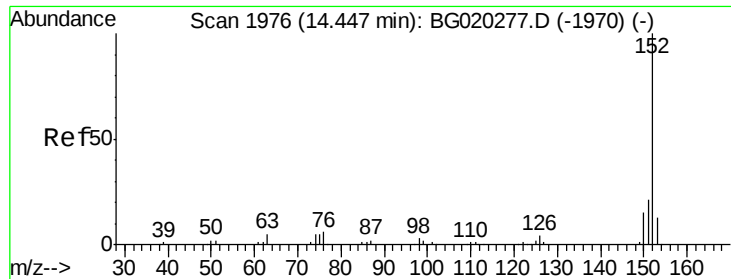
#45  
 Dimethylphthalate  
 Concen: 4.36 ng/ul  
 RT: 14.17 min Scan# 1928  
 Delta R.T. -0.00 min  
 Lab File: BG020280.D  
 Acq: 18 Dec 2015 18:16

Tgt Ion:163 Resp: 17064  
 Ion Ratio Lower Upper  
 163 100  
 194 4.1 3.5 5.3  
 164 8.9 7.7 11.5



Abundance Ion 163.00 (162.70 to 163.70): E  
 Ion 194.00 (193.70 to 194.70): E  
 Ion 164.00 (163.70 to 164.70): E





#48

Acenaphthylene

Concen: 1.19 ng/ul

RT: 14.45 min Scan# 1976

Delta R.T. 0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

Instrument :

BNA\_G

ClientSampleId :

D9N27

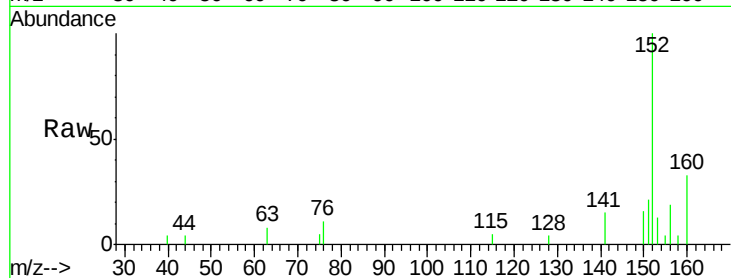
Tgt Ion:152 Resp: 5651

Ion Ratio Lower Upper

152 100

151 20.5 16.4 24.6

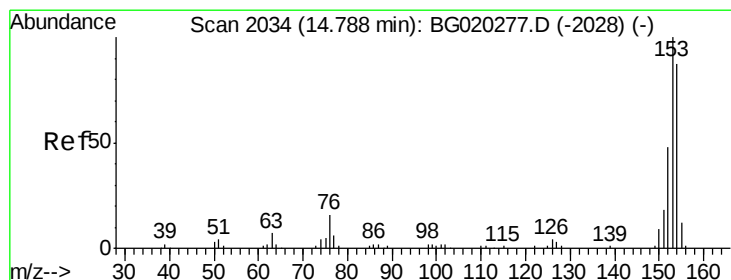
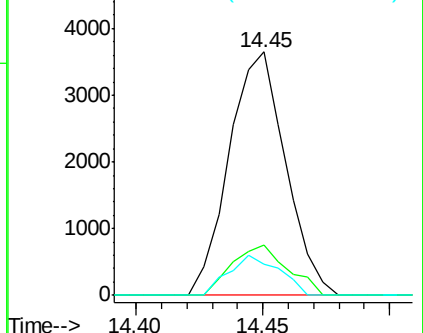
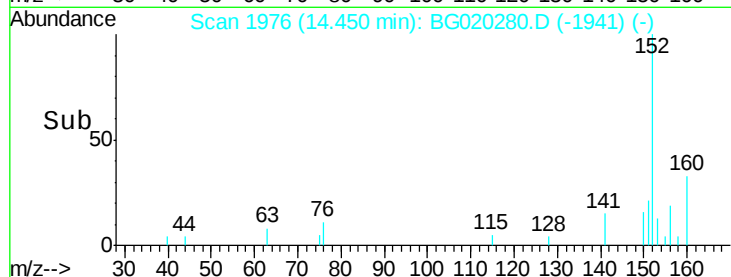
153 12.6 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 14.80 ng/ul

RT: 14.79 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

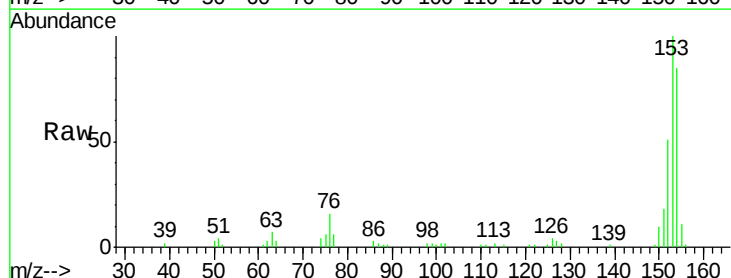
Tgt Ion:153 Resp: 47186

Ion Ratio Lower Upper

153 100

152 50.8 37.6 56.4

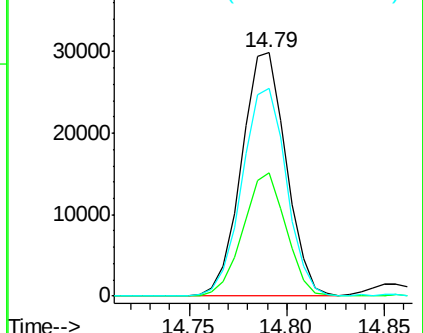
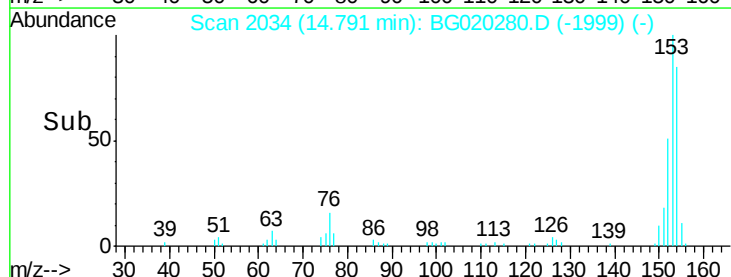
154 85.4 67.9 101.9

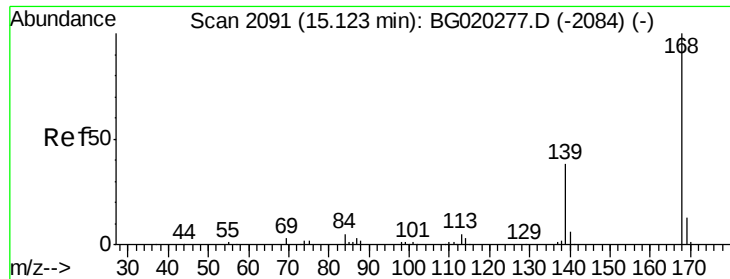


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 9.00 ng/ul

RT: 15.12 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

Instrument :

BNA\_G

ClientSampleId :

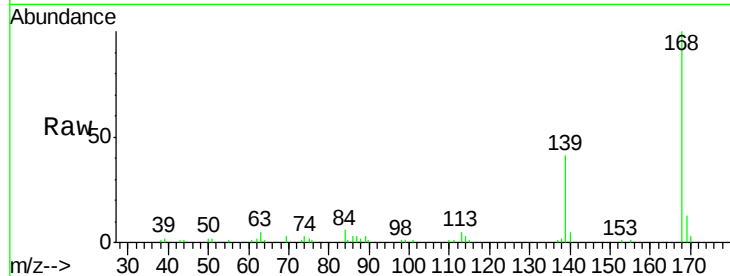
D9N27

Tgt Ion:168 Resp: 42688

Ion Ratio Lower Upper

168 100

139 40.8 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.12

30000

25000

20000

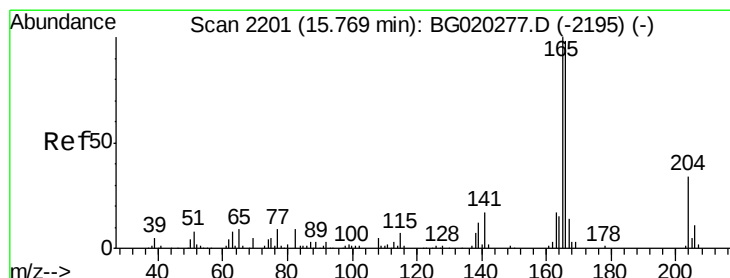
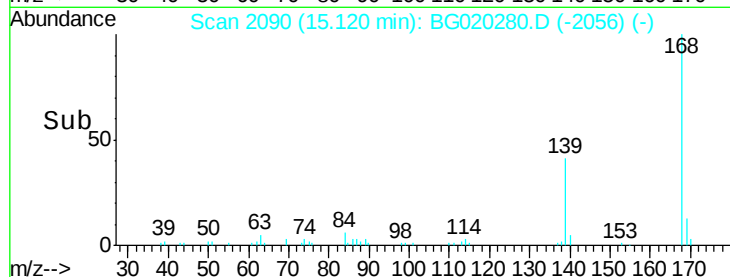
15000

10000

5000

0

Time--> 15.05 15.10 15.15



#59

Fluorene

Concen: 8.72 ng/ul

RT: 15.77 min Scan# 2201

Delta R.T. 0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

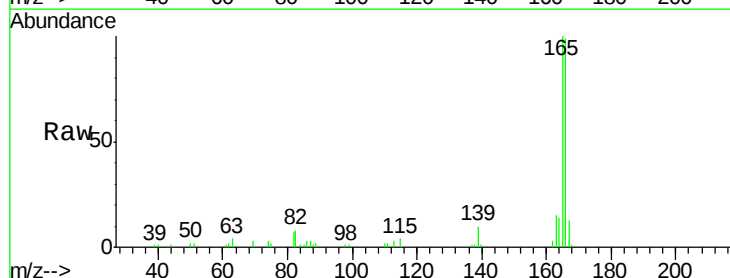
Tgt Ion:166 Resp: 33230

Ion Ratio Lower Upper

166 100

165 101.0 81.4 122.0

167 13.4 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

15.77

30000

25000

20000

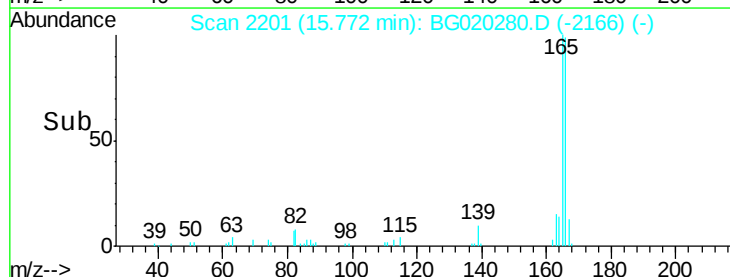
15000

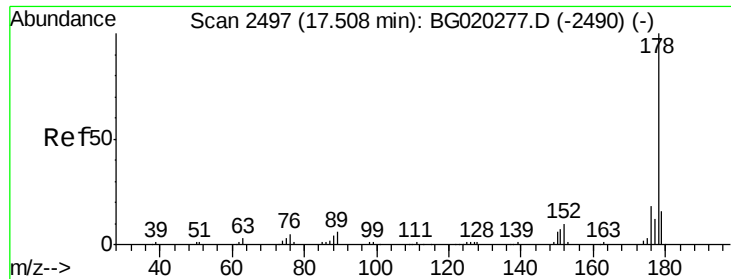
10000

5000

0

Time--> 15.70 15.75 15.80





#70

Phenanthrene

Concen: 13.33 ng/ul

RT: 17.51 min Scan# 2497

Delta R.T. 0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

Instrument :

BNA\_G

ClientSampleId :

D9N27

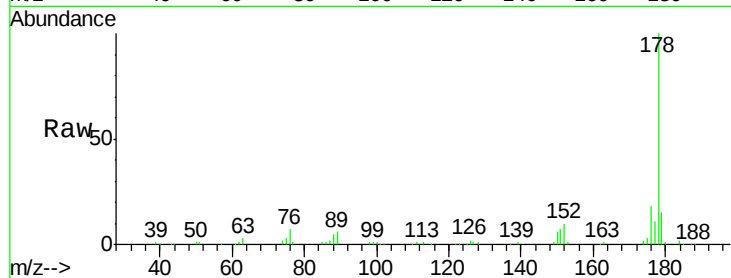
Tgt Ion:178 Resp: 88432

Ion Ratio Lower Upper

178 100

179 14.8 12.9 19.3

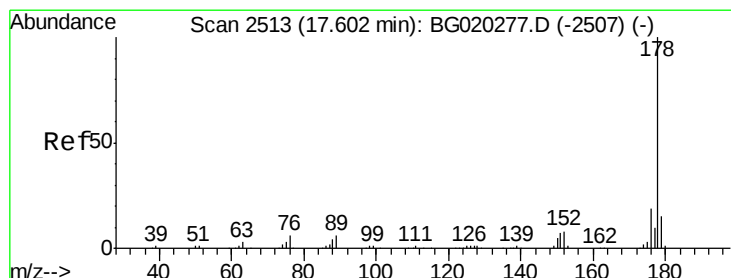
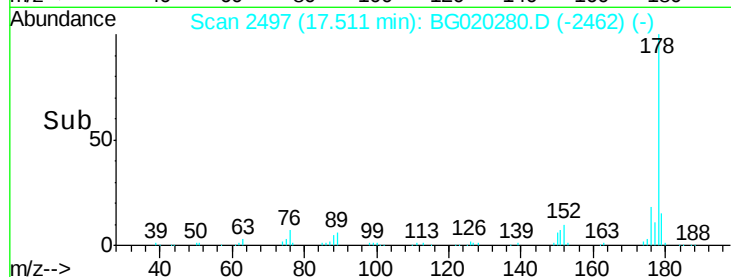
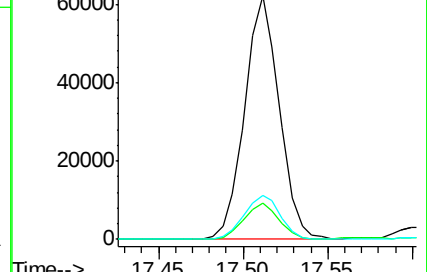
176 18.2 15.3 22.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 13.14 ng/ul

RT: 17.51 min Scan# 2497

Delta R.T. -0.09 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

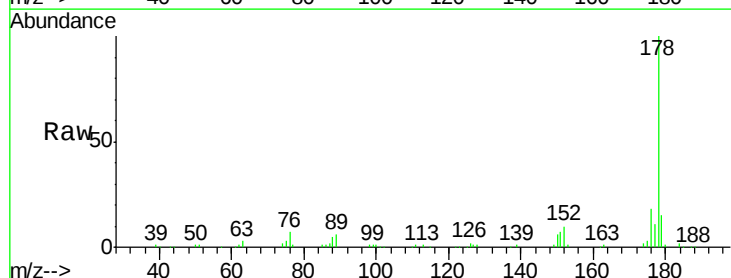
Tgt Ion:178 Resp: 88432

Ion Ratio Lower Upper

178 100

179 14.8 12.3 18.5

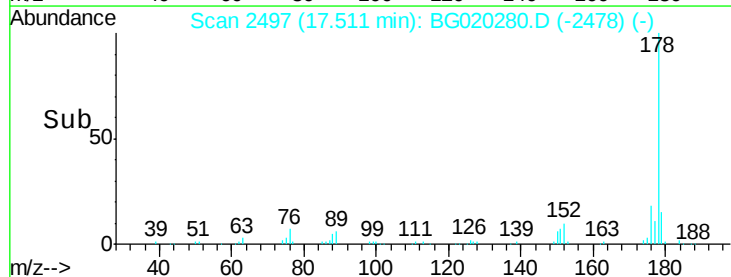
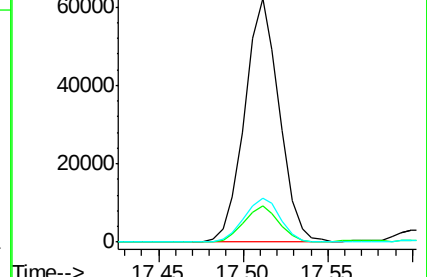
176 18.2 14.3 21.5

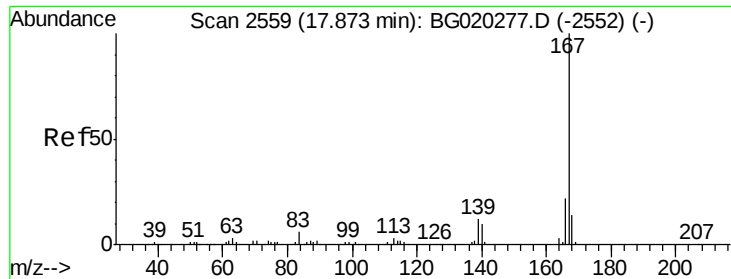


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 1.96 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. -0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

Instrument :

BNA\_G

ClientSampleId :

D9N27

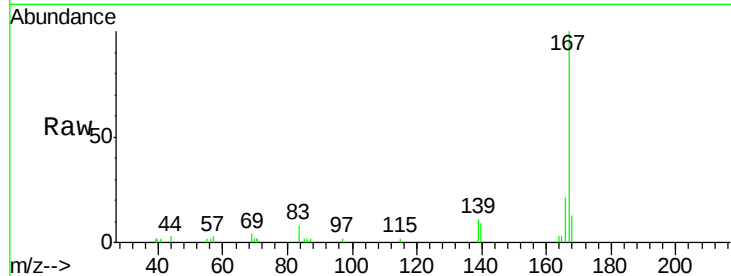
Tgt Ion:167 Resp: 11071

Ion Ratio Lower Upper

167 100

166 20.9 17.0 25.6

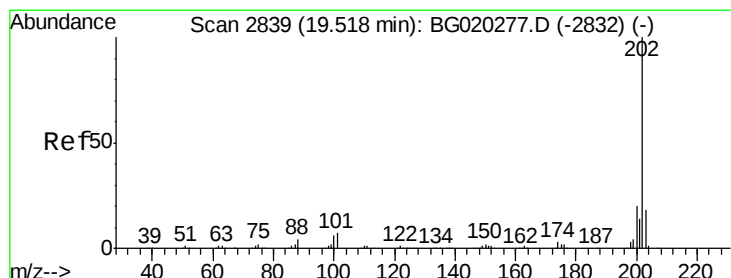
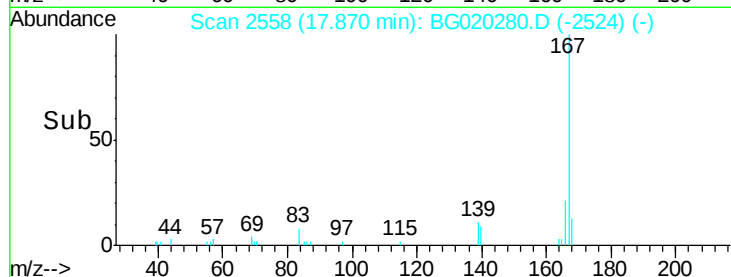
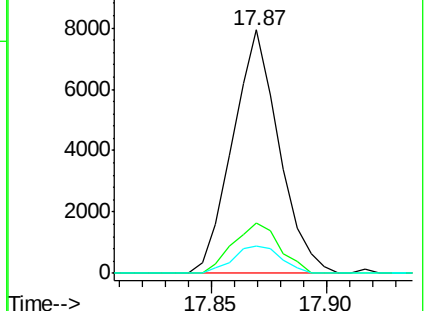
139 11.1 10.1 15.1



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#77

Fluoranthene

Concen: 2.74 ng/ul

RT: 19.51 min Scan# 2838

Delta R.T. -0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

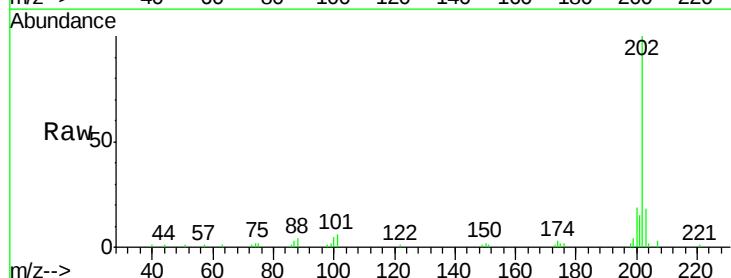
Tgt Ion:202 Resp: 21255

Ion Ratio Lower Upper

202 100

101 6.4 6.2 9.4

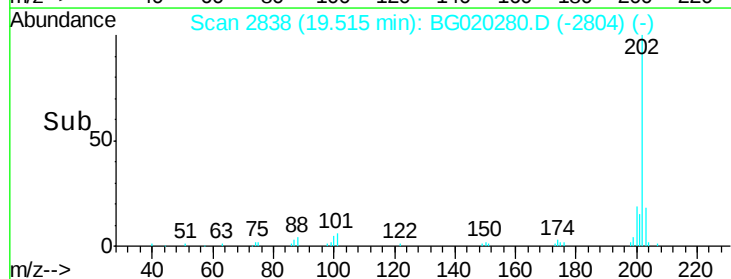
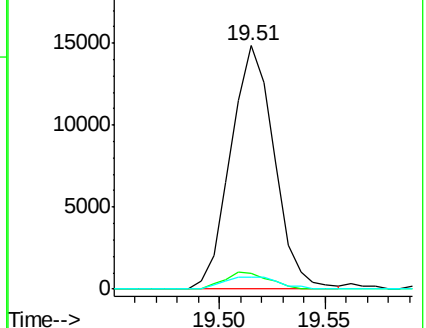
100 4.9 5.1 7.7#

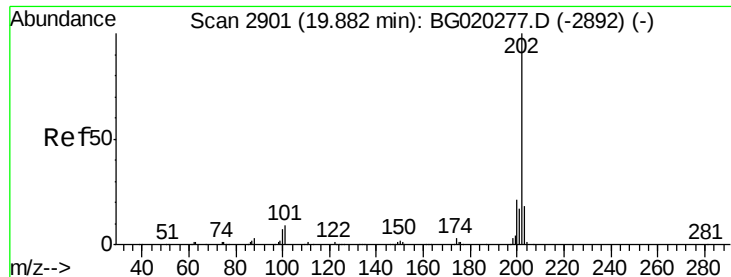


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#80

Pyrene

Concen: 1.44 ng/ul

RT: 19.88 min Scan# 2900

Delta R.T. -0.00 min

Lab File: BG020280.D

Acq: 18 Dec 2015 18:16

Instrument :

BNA\_G

ClientSampleId :

D9N27

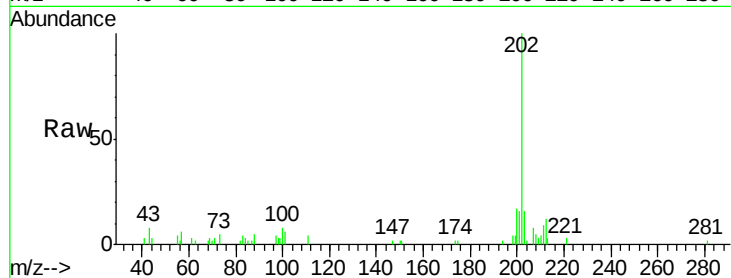
Tgt Ion:202 Resp: 13932

Ion Ratio Lower Upper

202 100

101 6.2 7.0 10.4#

100 7.5 6.4 9.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

