

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121915\  
 Data File : BG020297.D  
 Acq On : 19 Dec 2015 5:30  
 Operator : UM/SJ  
 Sample : G4768-17  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Quant Time: Dec 20 03:23:07 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Dec 19 04:52:13 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 19310    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.92 | 136  | 84280    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.72 | 164  | 57059    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.47 | 188  | 139573   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.74 | 240  | 183946   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.01 | 264  | 166641   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.47  | 96  | 551    | 1.58  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.24  | 99  | 14243  | 8.36  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.41  | 67  | 32479  | 31.97 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.62  | 132 | 35651  | 28.79 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.79  | 113 | 27427  | 18.83 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.26  | 128 | 22854  | 34.79 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.98  | 143 | 27127  | 37.11 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.52 | 165 | 47048  | 31.77 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.05 | 131 | 1155   | 0.69  | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 14.13 | 166 | 162109 | 35.12 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.42 | 160 | 189826 | 35.35 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.91 | 143 | 7107   | 8.59  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.72 | 176 | 147242 | 35.17 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.83 | 200 | 26487  | 32.01 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.57 | 188 | 231892 | 36.06 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.85 | 212 | 280736 | 32.75 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.79 | 264 | 312697 | 37.62 | ng/ul | 0.00 |

## Target Compounds

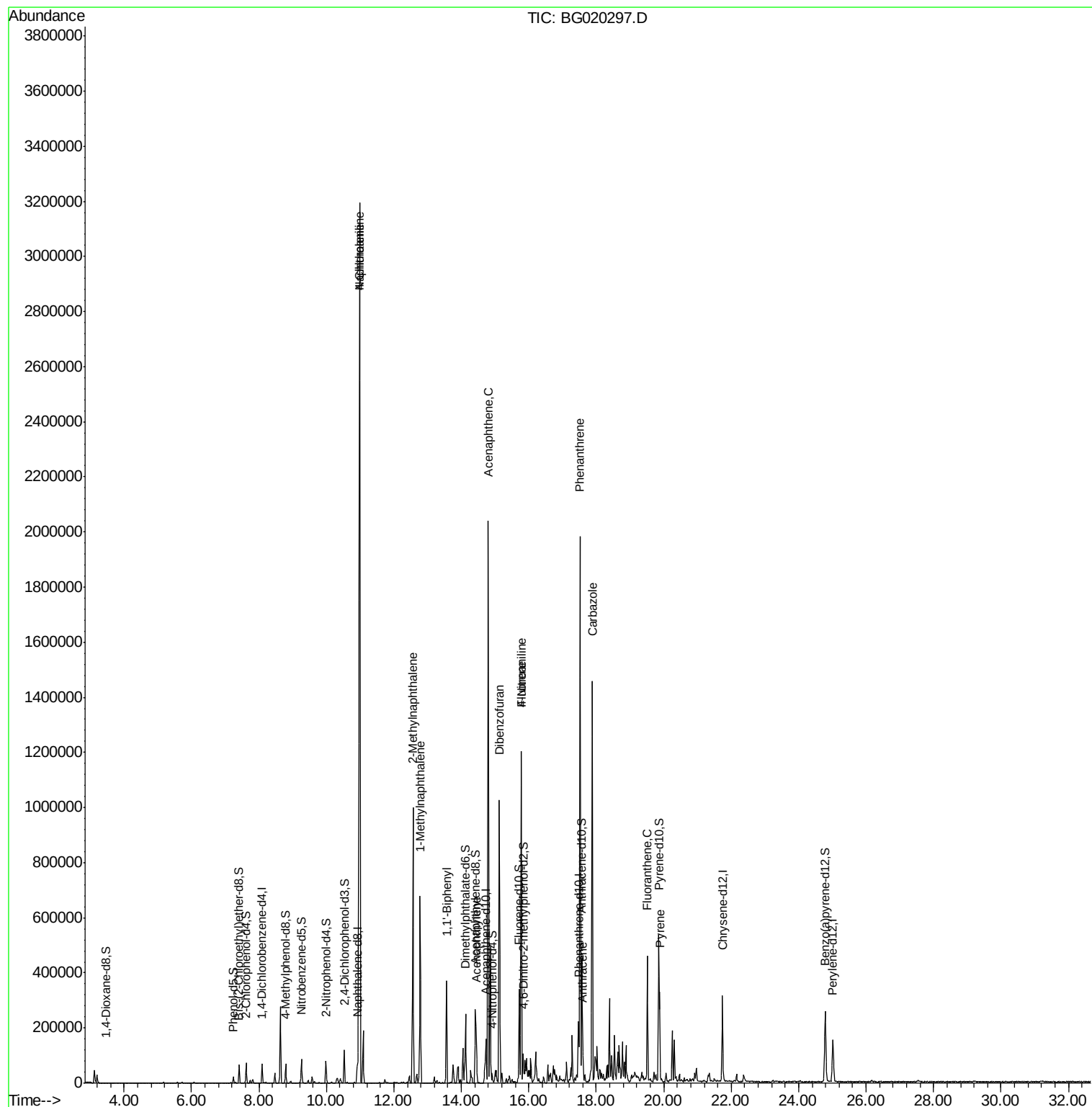
|                         |       |     |         |        |        | Qvalue |
|-------------------------|-------|-----|---------|--------|--------|--------|
| 28) Naphthalene         | 10.99 | 128 | 2932796 | 666.36 | ng/ul# | 83     |
| 30) 4-Chloroaniline     | 10.99 | 127 | 505269  | 297.56 | ng/ul# | 13     |
| 34) 2-Methylnaphthalene | 12.56 | 142 | 478210  | 142.25 | ng/ul  | 98     |
| 35) 1-Methylnaphthalene | 12.78 | 142 | 312529  | 96.70  | ng/ul  | 95     |
| 41) 1,1'-Biphenyl       | 13.56 | 154 | 201414  | 46.79  | ng/ul  | 95     |
| 48) Acenaphthylene      | 14.45 | 152 | 120450  | 21.11  | ng/ul  | 97     |
| 50) Acenaphthene        | 14.80 | 153 | 908095  | 236.59 | ng/ul  | 97     |
| 54) Dibenzofuran        | 15.12 | 168 | 644702  | 112.91 | ng/ul  | 98     |
| 59) Fluorene            | 15.78 | 166 | 550244  | 120.00 | ng/ul  | 98     |
| 61) 4-Nitroaniline      | 15.78 | 138 | 7101    | 6.94   | ng/ul# | 14     |
| 70) Phenanthrene        | 17.52 | 178 | 1255393 | 164.44 | ng/ul  | 95     |
| 72) Anthracene          | 17.60 | 178 | 84827   | 10.95  | ng/ul  | 97     |
| 75) Carbazole           | 17.88 | 167 | 1028000 | 158.00 | ng/ul  | 95     |
| 77) Fluoranthene        | 19.52 | 202 | 305360  | 34.22  | ng/ul  | 98     |
| 80) Pyrene              | 19.88 | 202 | 181327  | 16.29  | ng/ul  | 97     |

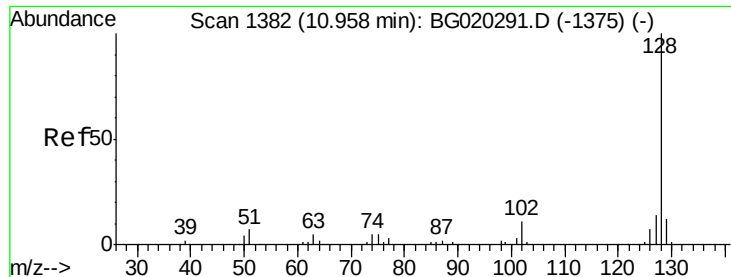
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Sat Dec 19 04:52:13 2015  
Response via : Initial Calibration





#28

Naphthalene

Concen: 666.36 ng/ul

RT: 10.99 min Scan# 1387

Delta R.T. 0.03 min

Lab File: BG020297.D

Acq: 19 Dec 2015 5:30

Instrument :

BNA\_G

ClientSampleId :

D9N41

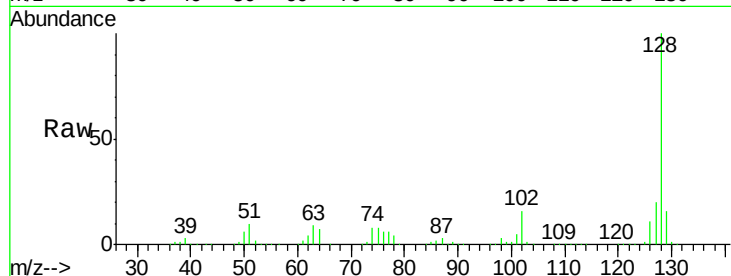
Tgt Ion:128 Resp: 2932796

Ion Ratio Lower Upper

128 100

129 16.2 8.6 12.8#

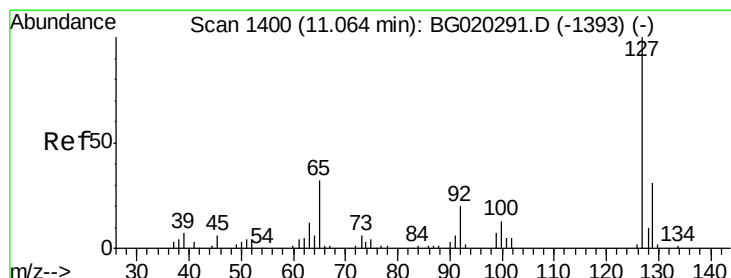
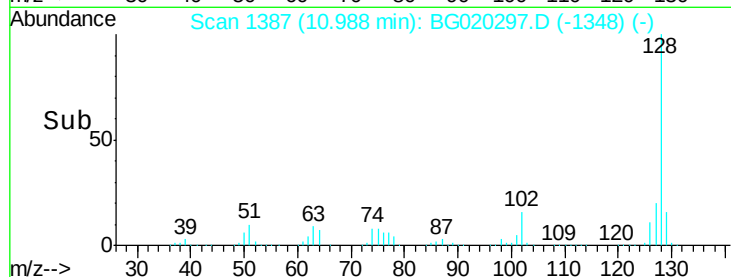
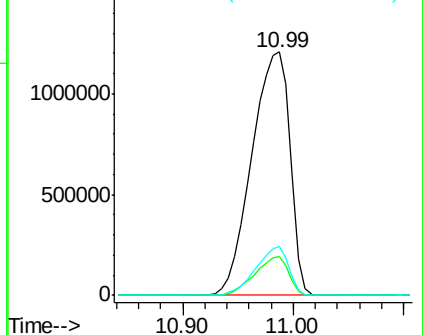
127 20.1 10.1 15.1#



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: 297.56 ng/ul

RT: 10.99 min Scan# 1387

Delta R.T. -0.08 min

Lab File: BG020297.D

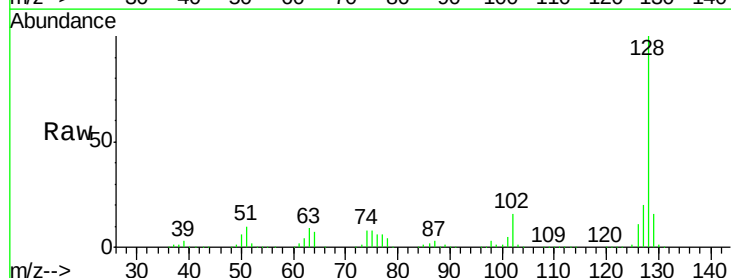
Acq: 19 Dec 2015 5:30

Tgt Ion:127 Resp: 505269

Ion Ratio Lower Upper

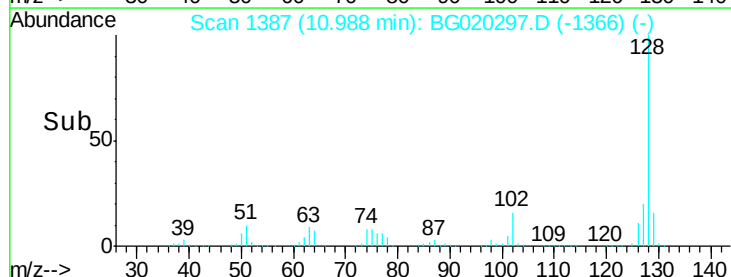
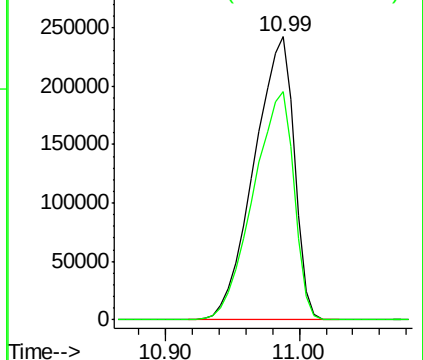
127 100

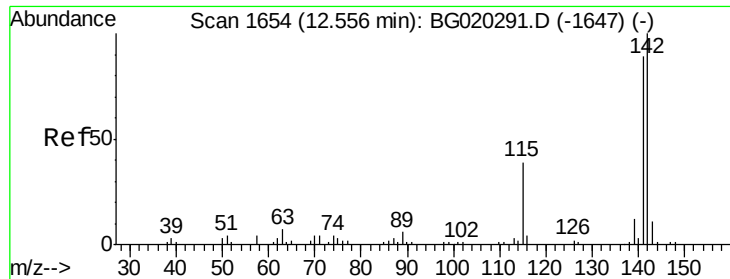
129 80.8 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

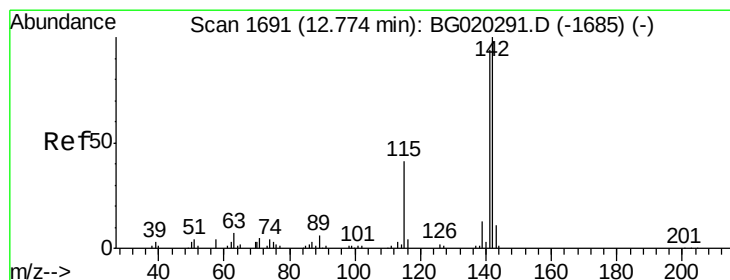
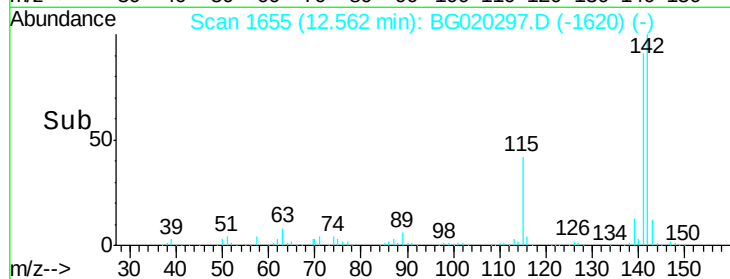
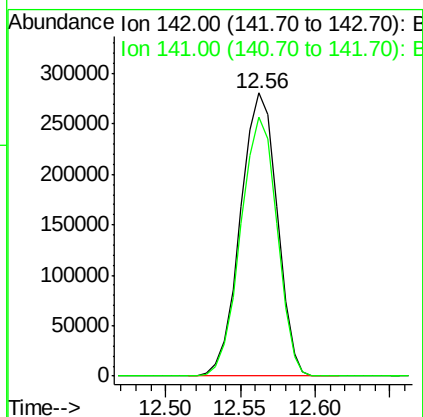
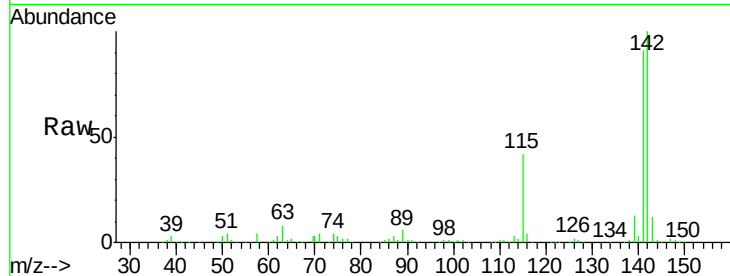




#34  
 2-Methylnaphthalene  
 Concen: 142.25 ng/ul  
 RT: 12.56 min Scan# 1655  
 Delta R.T. 0.01 min  
 Lab File: BG020297.D  
 Acq: 19 Dec 2015 5:30

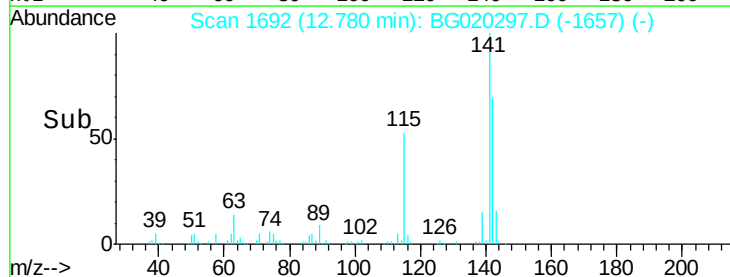
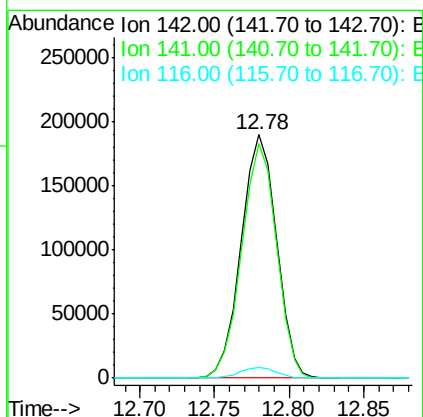
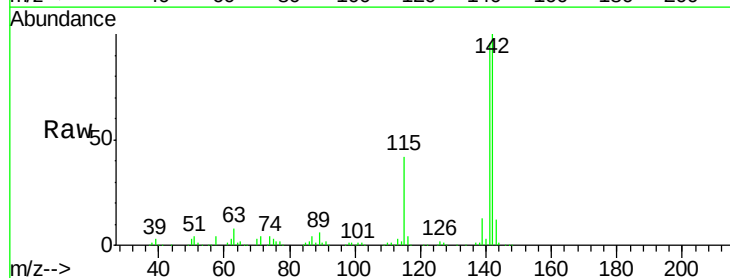
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

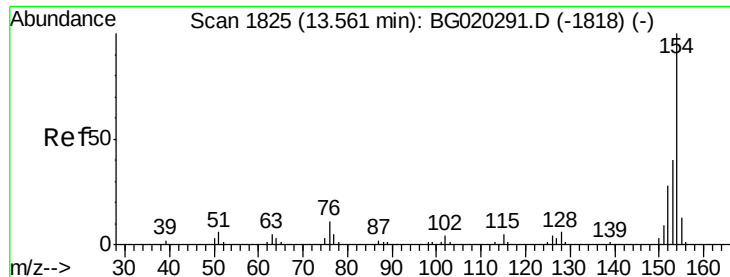
Tgt Ion:142 Resp: 478210  
 Ion Ratio Lower Upper  
 142 100  
 141 91.3 74.9 112.3



#35  
 1-Methylnaphthalene  
 Concen: 96.70 ng/ul  
 RT: 12.78 min Scan# 1692  
 Delta R.T. 0.01 min  
 Lab File: BG020297.D  
 Acq: 19 Dec 2015 5:30

Tgt Ion:142 Resp: 312529  
 Ion Ratio Lower Upper  
 142 100  
 141 96.2 73.0 109.6  
 116 4.4 3.0 4.6

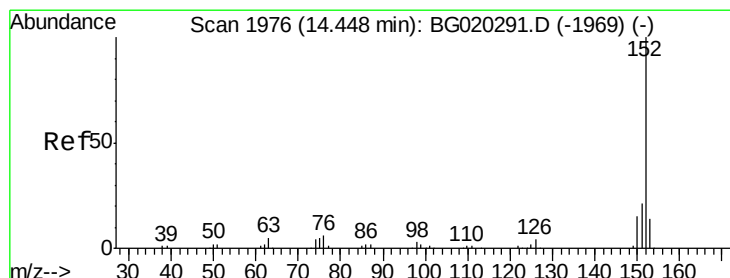
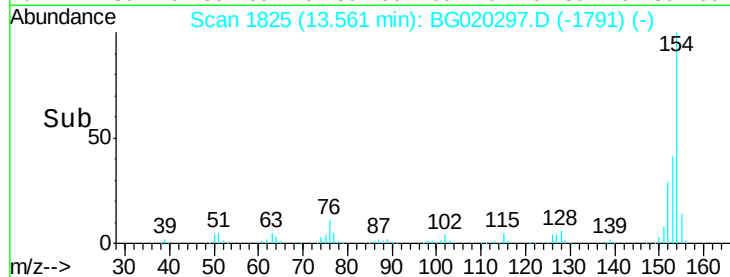
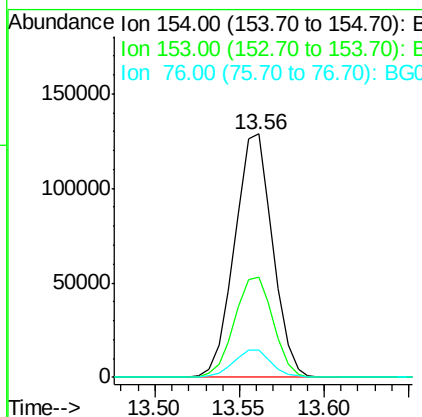
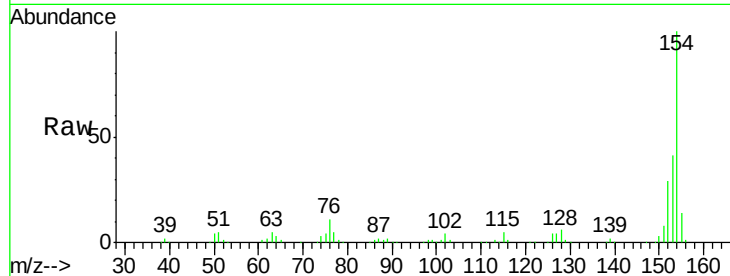




#41  
 1,1'-Biphenyl  
 Concen: 46.79 ng/ul  
 RT: 13.56 min Scan# 1825  
 Delta R.T. 0.00 min  
 Lab File: BG020297.D  
 Acq: 19 Dec 2015 5:30

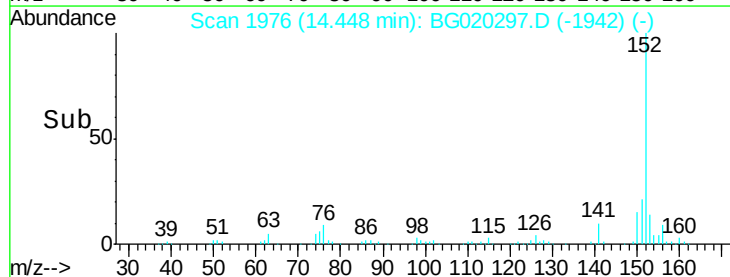
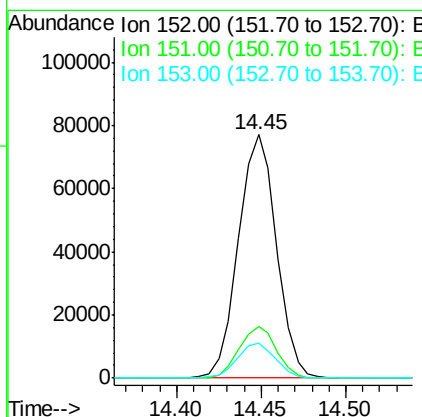
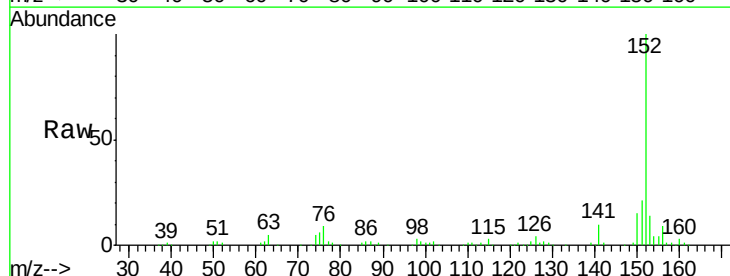
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

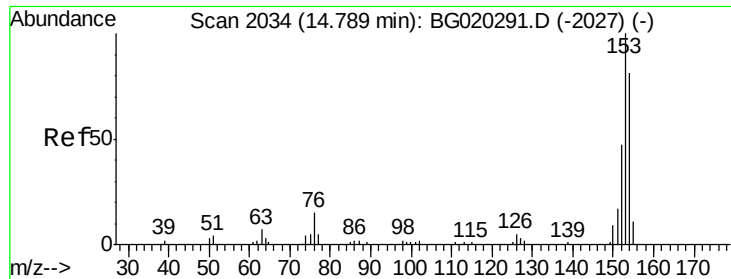
Tgt Ion:154 Resp: 201414  
 Ion Ratio Lower Upper  
 154 100  
 153 41.3 35.5 53.3  
 76 11.4 10.4 15.6



#48  
 Acenaphthylene  
 Concen: 21.11 ng/ul  
 RT: 14.45 min Scan# 1976  
 Delta R.T. 0.00 min  
 Lab File: BG020297.D  
 Acq: 19 Dec 2015 5:30

Tgt Ion:152 Resp: 120450  
 Ion Ratio Lower Upper  
 152 100  
 151 21.4 16.4 24.6  
 153 14.3 10.4 15.6





#50

Acenaphthene

Concen: 236.59 ng/ul

RT: 14.80 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BG020297.D

Acq: 19 Dec 2015 5:30

Instrument :

BNA\_G

ClientSampleId :

D9N41

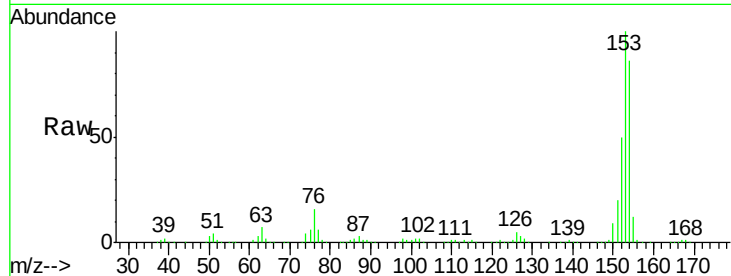
Tgt Ion:153 Resp: 908095

Ion Ratio Lower Upper

153 100

152 50.1 37.6 56.4

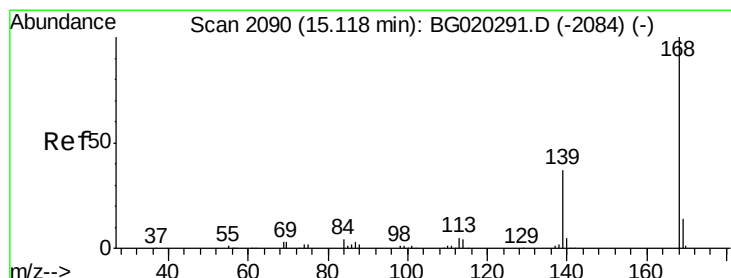
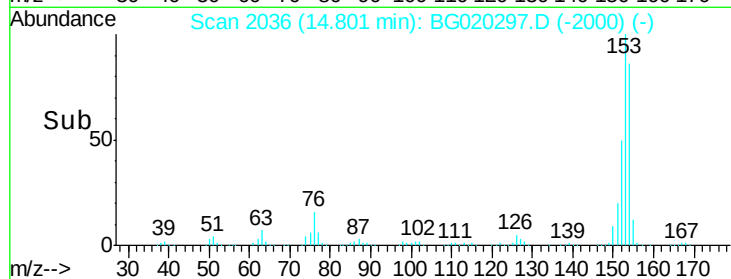
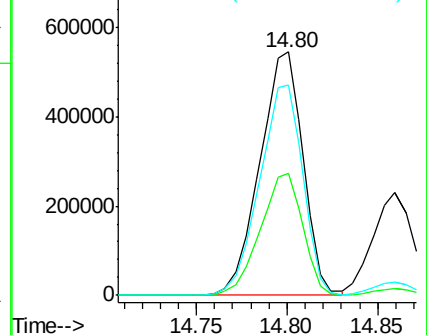
154 86.4 67.9 101.9



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

Dibenzofuran

Concen: 112.91 ng/ul

RT: 15.12 min Scan# 2091

Delta R.T. 0.01 min

Lab File: BG020297.D

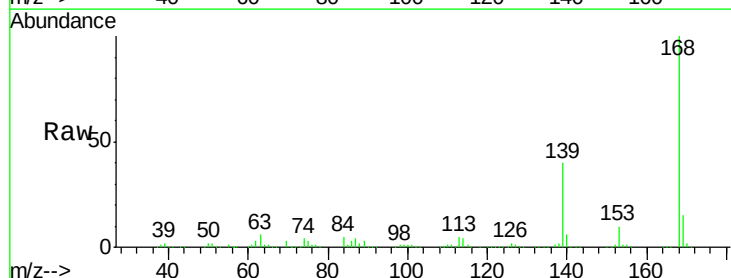
Acq: 19 Dec 2015 5:30

Tgt Ion:168 Resp: 644702

Ion Ratio Lower Upper

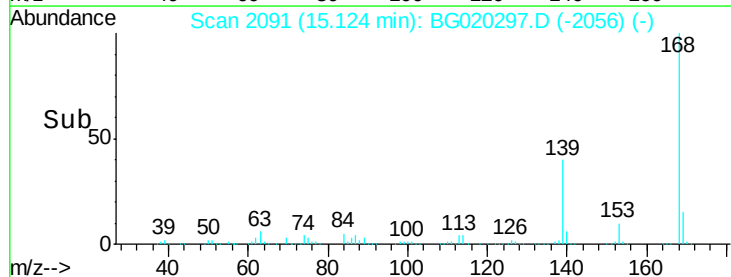
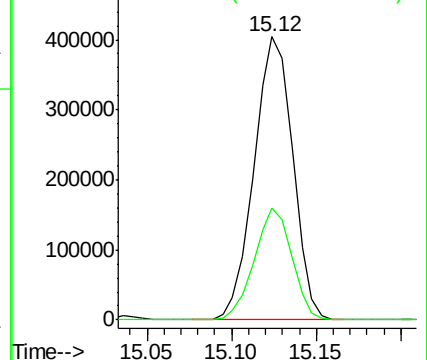
168 100

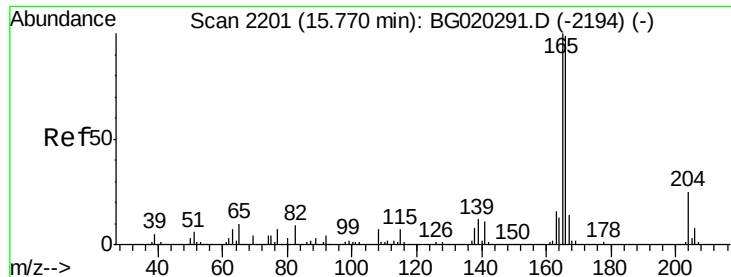
139 39.6 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 120.00 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. 0.01 min

Lab File: BG020297.D

Acq: 19 Dec 2015 5:30

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BNA\_G

ClientSampleId :

D9N41

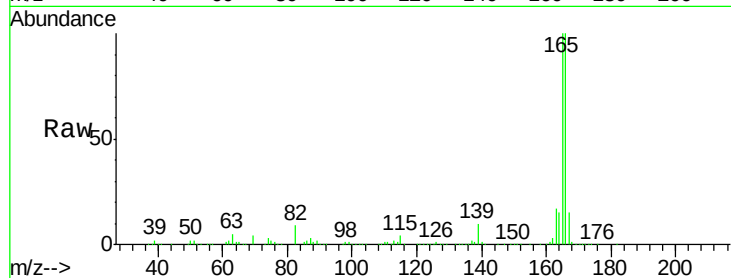
Tgt Ion:166 Resp: 550244

Ion Ratio Lower Upper

166 100

165 99.7 81.4 122.0

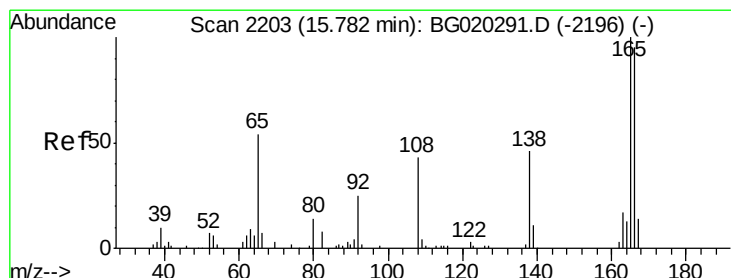
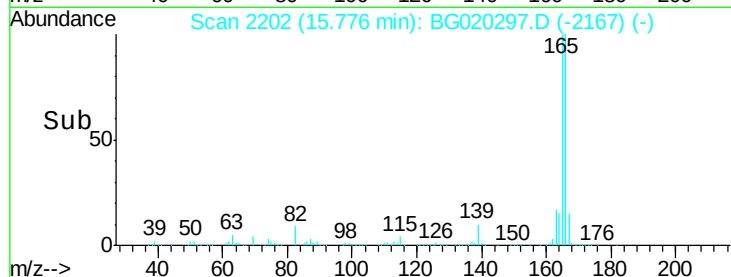
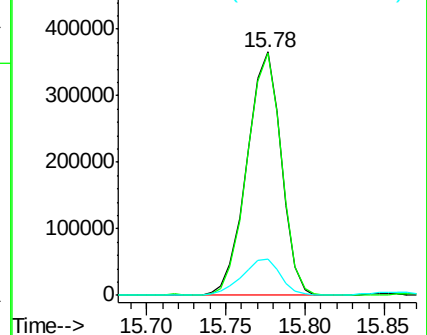
167 14.9 11.2 16.8



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



#61

4-Nitroaniline

Concen: 6.94 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BG020297.D

Acq: 19 Dec 2015 5:30

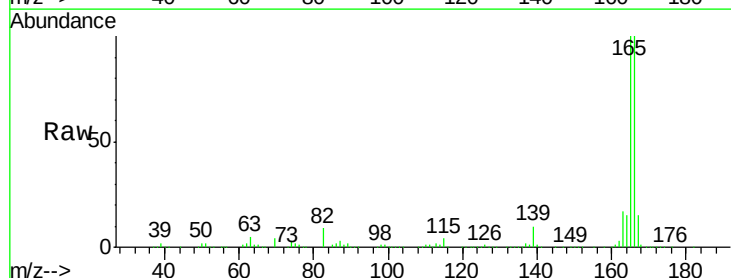
Tgt Ion:138 Resp: 7101

Ion Ratio Lower Upper

138 100

92 4.0 45.2 67.8#

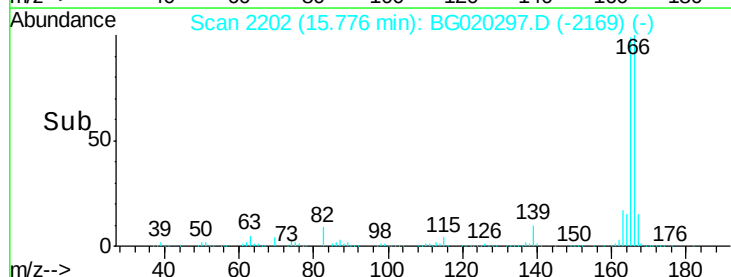
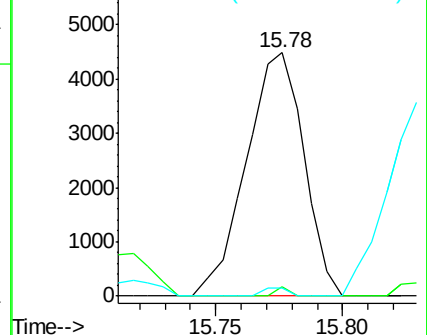
108 3.4 75.4 113.0#

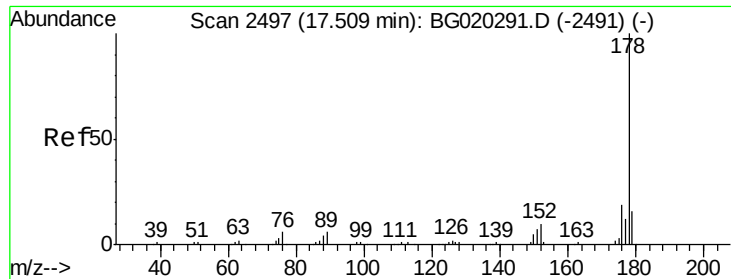


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG0

Ion 108.00 (107.70 to 108.70): E





#70

Phenanthrene

Concen: 164.44 ng/ul

RT: 17.52 min Scan# 2499

Delta R.T. 0.01 min

Lab File: BG020297.D

Acq: 19 Dec 2015 5:30

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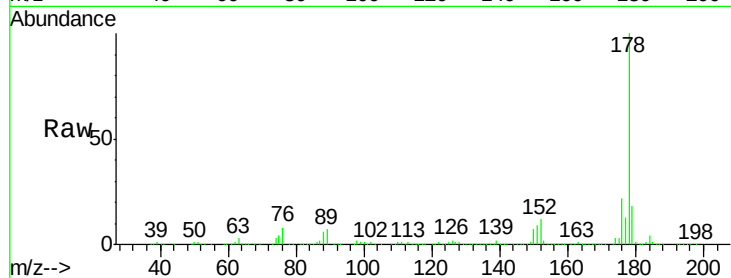
Tgt Ion:178 Resp: 1255393

Ion Ratio Lower Upper

178 100

179 18.2 12.9 19.3

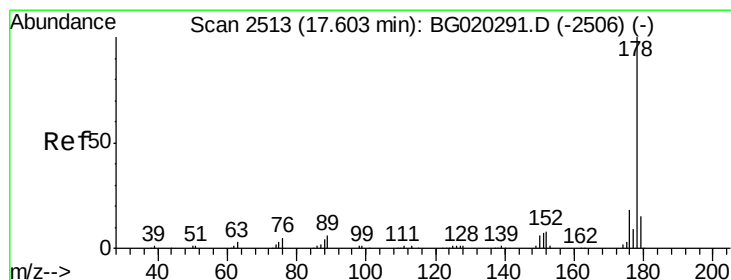
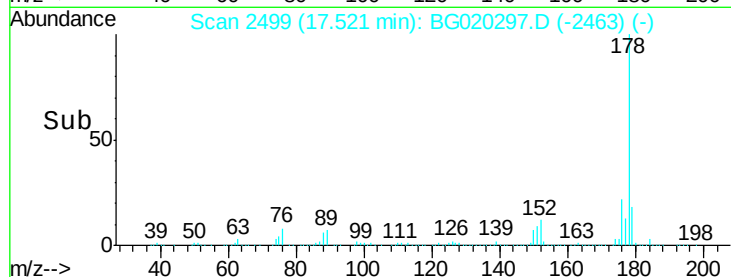
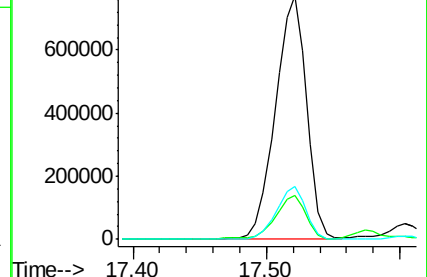
176 21.7 15.3 22.9



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: 10.95 ng/ul

RT: 17.60 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BG020297.D

Acq: 19 Dec 2015 5:30

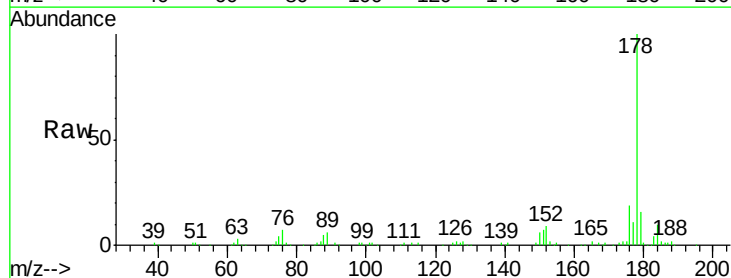
Tgt Ion:178 Resp: 84827

Ion Ratio Lower Upper

178 100

179 16.1 12.3 18.5

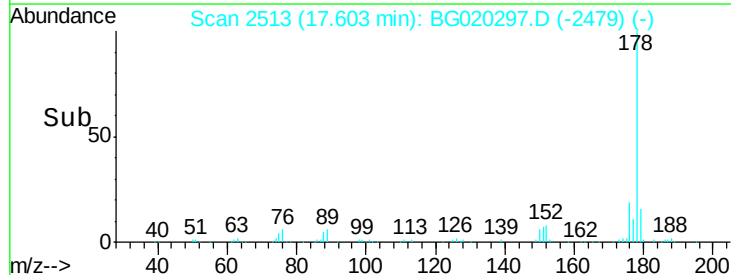
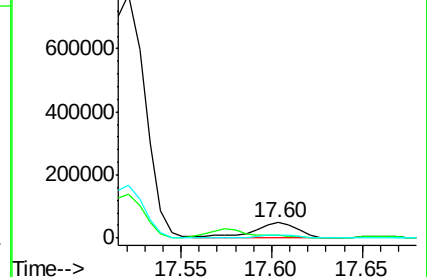
176 19.4 14.3 21.5



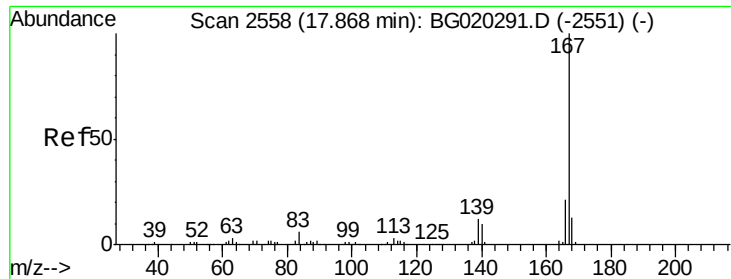
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E







#75

Carbazole

Concen: 158.00 ng/ul

RT: 17.88 min Scan# 2560

Delta R.T. 0.01 min

Lab File: BG020297.D

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Instrument :

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ClientSampleId :

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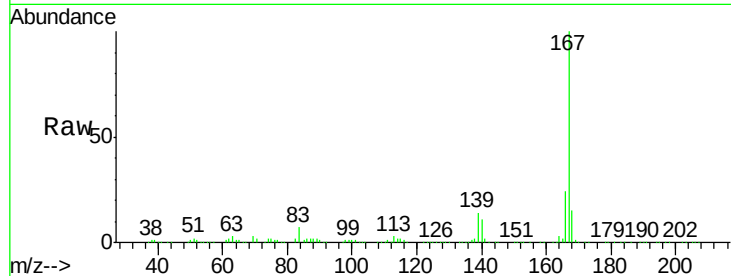
Tgt Ion:167 Resp: 1028000

Ion Ratio Lower Upper

167 100

166 23.9 17.0 25.6

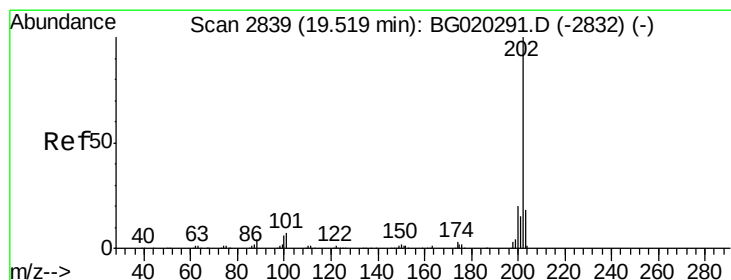
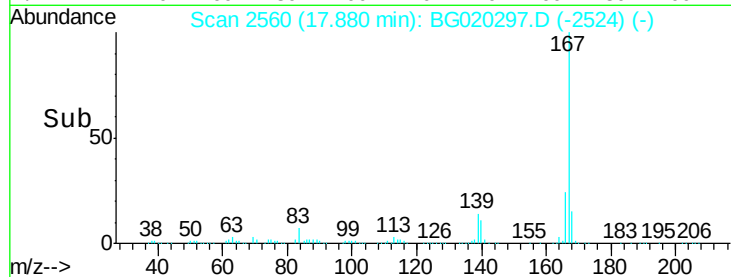
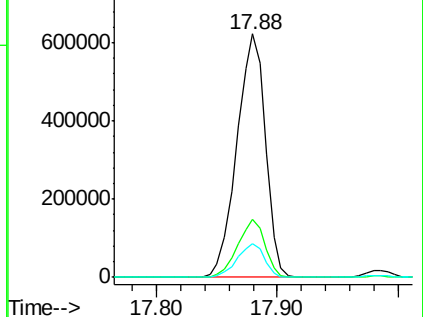
139 14.1 10.1 15.1



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: 34.22 ng/ul

RT: 19.52 min Scan# 2839

Delta R.T. 0.00 min

Lab File: BG020297.D

Acq: 19 Dec 2015 5:30

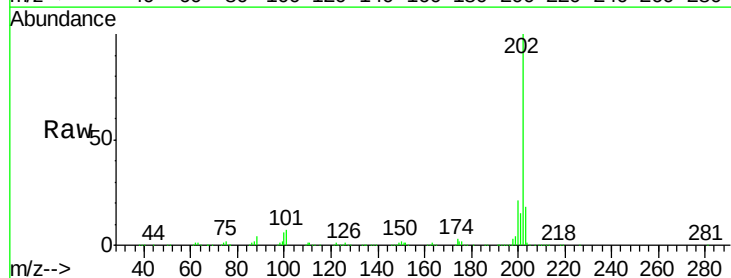
Tgt Ion:202 Resp: 305360

Ion Ratio Lower Upper

202 100

101 7.0 6.2 9.4

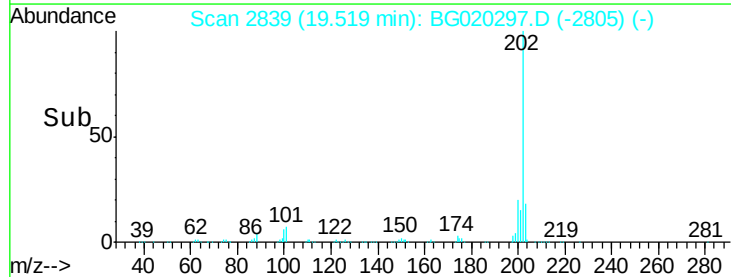
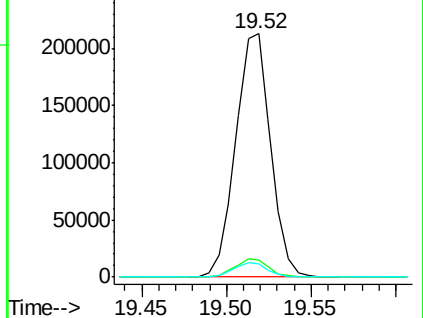
100 5.6 5.1 7.7

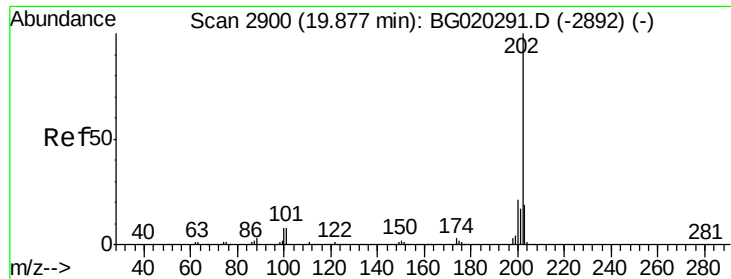


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

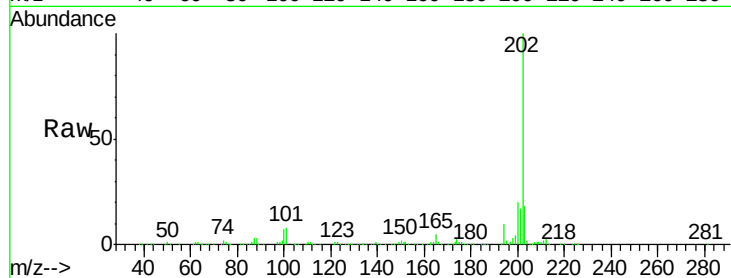




#80  
 Pyrene  
 Concen: 16.29 ng/ul  
 RT: 19.88 min Scan# 2900  
 Delta R.T. 0.00 min  
 Lab File: BG020297.D  
 Acq: 19 Dec 2015 5:30

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.8   | 7.0   | 10.4  |
| 100     | 6.9   | 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

