

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121915\  
 Data File : BG020287.D  
 Acq On : 18 Dec 2015 22:49  
 Operator : UM/SJ  
 Sample : G4768-08  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N32

Quant Time: Dec 19 00:51:32 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 | 8.10  | 152  | 16801    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.91 | 136  | 70277    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.72 | 164  | 48619    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.47 | 188  | 126975   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.75 | 240  | 178195   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.01 | 264  | 164282   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.47  | 96  | 248    | 0.81  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.24  | 99  | 8698   | 5.87  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.41  | 67  | 23793  | 26.92 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.62  | 132 | 24964  | 23.17 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.79  | 113 | 16995  | 13.41 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.26  | 128 | 16526  | 30.17 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.98  | 143 | 18704  | 30.68 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.52 | 165 | 32502  | 26.32 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.04 | 131 | 3426   | 2.47  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.12 | 166 | 126629 | 32.20 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.42 | 160 | 140408 | 30.69 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.91 | 143 | 3976   | 5.64  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.71 | 176 | 114403 | 32.07 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.82 | 200 | 21123  | 28.06 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.57 | 188 | 203500 | 34.78 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.85 | 212 | 260213 | 31.33 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.79 | 264 | 289069 | 35.28 | ng/ul | 0.00 |

## Target Compounds

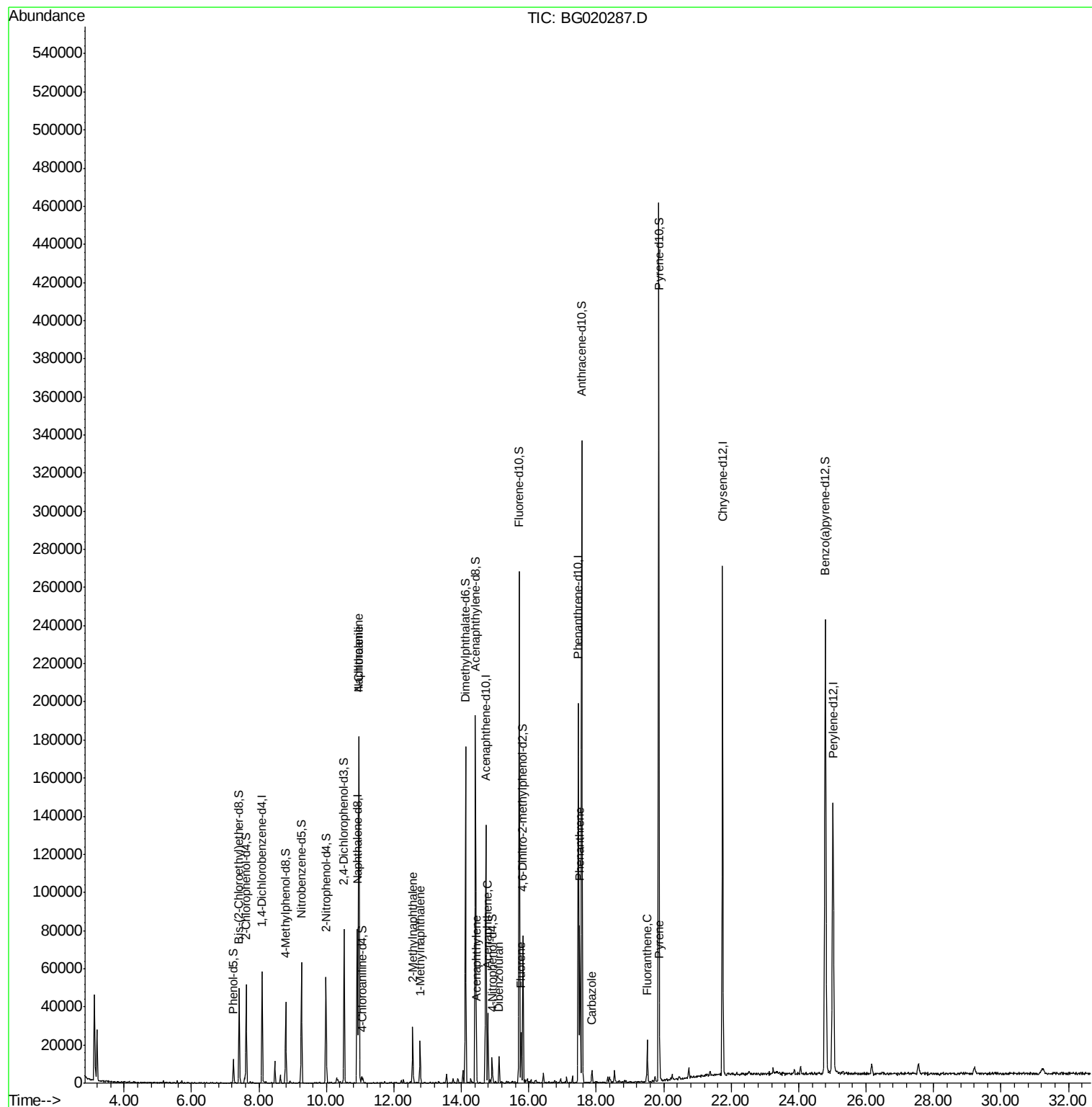
|                         |       |     |        |       |        | Qvalue |
|-------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene         | 10.96 | 128 | 161350 | 43.96 | ng/ul  | 99     |
| 30) 4-Chloroaniline     | 10.96 | 127 | 21775  | 15.38 | ng/ul# | 18     |
| 34) 2-Methylnaphthalene | 12.56 | 142 | 15086  | 5.38  | ng/ul  | 94     |
| 35) 1-Methylnaphthalene | 12.78 | 142 | 11504  | 4.27  | ng/ul# | 92     |
| 48) Acenaphthylene      | 14.45 | 152 | 5210   | 1.07  | ng/ul  | 94     |
| 50) Acenaphthene        | 14.79 | 153 | 16625  | 5.08  | ng/ul  | 95     |
| 54) Dibenzofuran        | 15.12 | 168 | 9257   | 1.90  | ng/ul  | 94     |
| 59) Fluorene            | 15.77 | 166 | 13078  | 3.35  | ng/ul  | 98     |
| 70) Phenanthrene        | 17.51 | 178 | 54398  | 7.83  | ng/ul  | 99     |
| 75) Carbazole           | 17.87 | 167 | 6598   | 1.11  | ng/ul# | 92     |
| 77) Fluoranthene        | 19.51 | 202 | 15045  | 1.85  | ng/ul  | 98     |
| 80) Pyrene              | 19.88 | 202 | 11906  | 1.10  | ng/ul  | 99     |

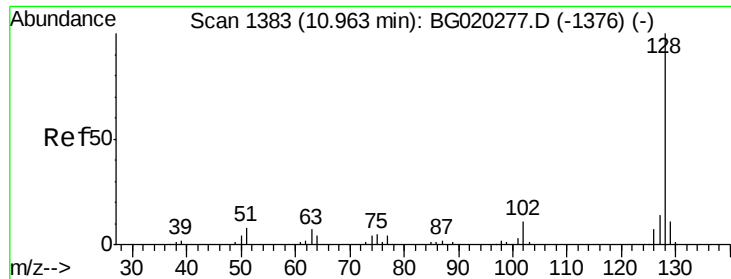
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Sat Dec 19 00:45:12 2015  
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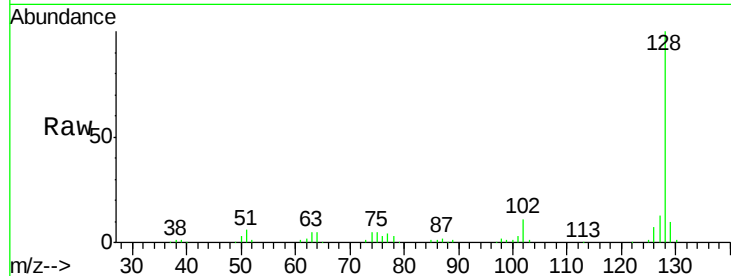




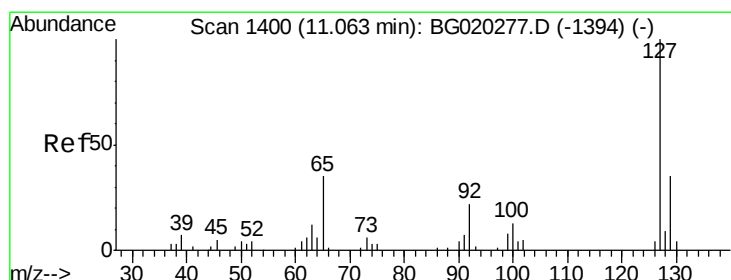
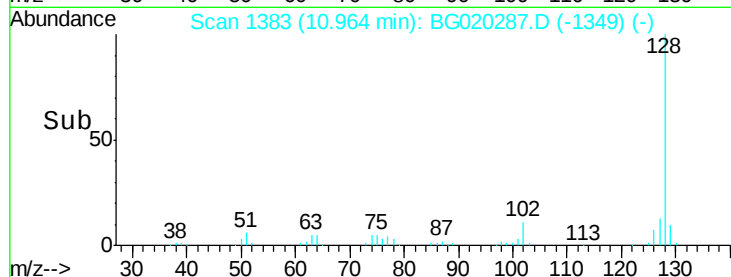
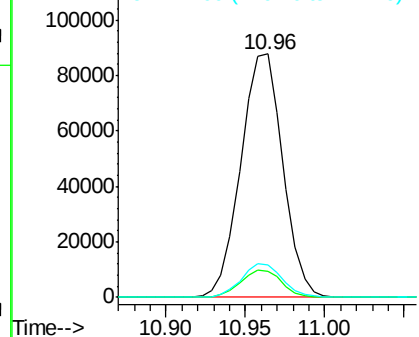
#28  
Naphthalene  
Concen: 43.96 ng/ul  
RT: 10.96 min Scan# 1383  
Delta R.T. 0.00 min  
Lab File: BG020287.D  
Acq: 18 Dec 2015 22:49

Instrument :  
BNA\_G  
ClientSampleId :  
D9N32

Tgt Ion:128 Resp: 161350  
Ion Ratio Lower Upper  
128 100  
129 10.4 8.6 12.8  
127 13.3 10.1 15.1

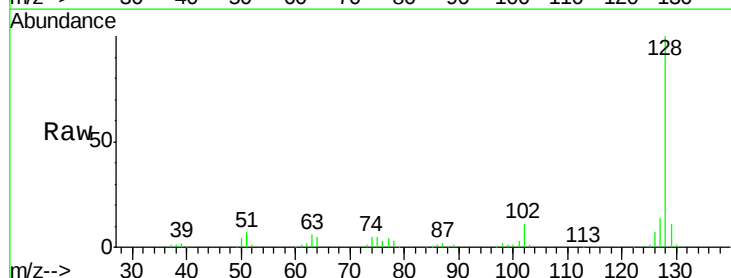


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

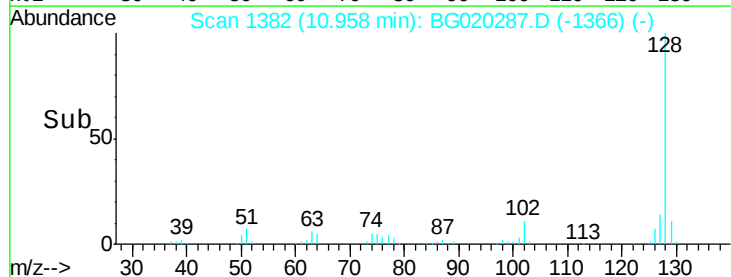
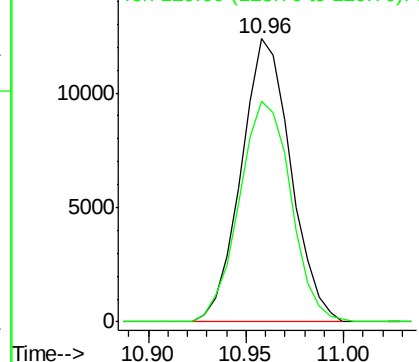


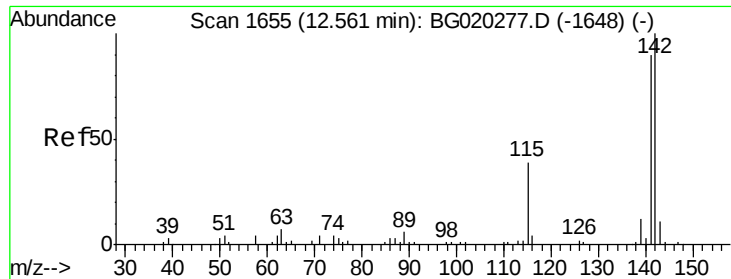
#30  
4-Chloroaniline  
Concen: 15.38 ng/ul  
RT: 10.96 min Scan# 1382  
Delta R.T. -0.11 min  
Lab File: BG020287.D  
Acq: 18 Dec 2015 22:49

Tgt Ion:127 Resp: 21775  
Ion Ratio Lower Upper  
127 100  
129 78.1 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E

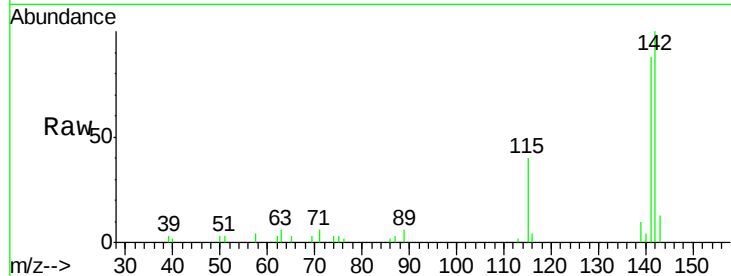




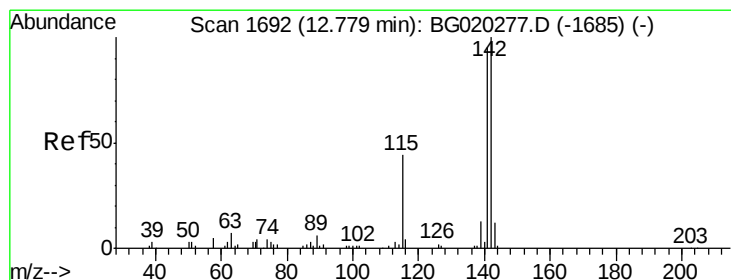
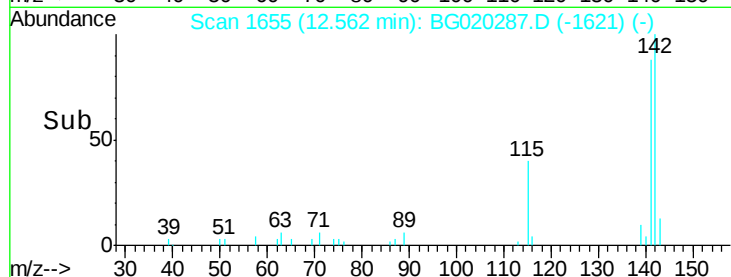
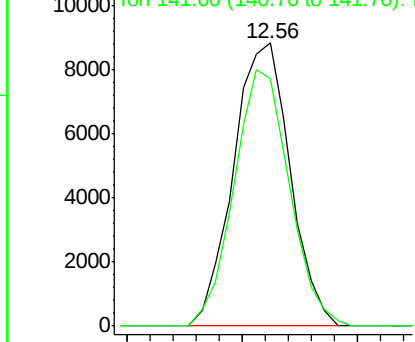
#34  
2-Methylnaphthalene  
Concen: 5.38 ng/ul  
RT: 12.56 min Scan# 1655  
Delta R.T. 0.00 min  
Lab File: BG020287.D  
Acq: 18 Dec 2015 22:49

Instrument :  
BNA\_G  
ClientSampleId :  
D9N32

Tgt Ion:142 Resp: 15086  
Ion Ratio Lower Upper  
142 100  
141 87.5 74.9 112.3

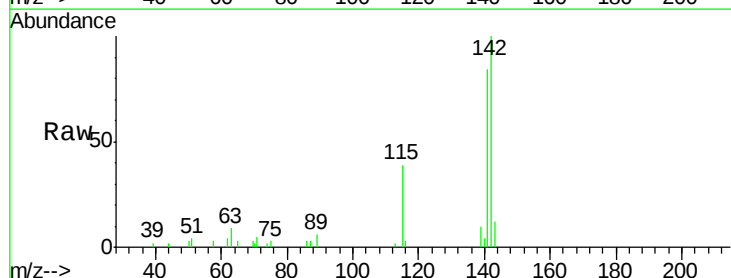


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E

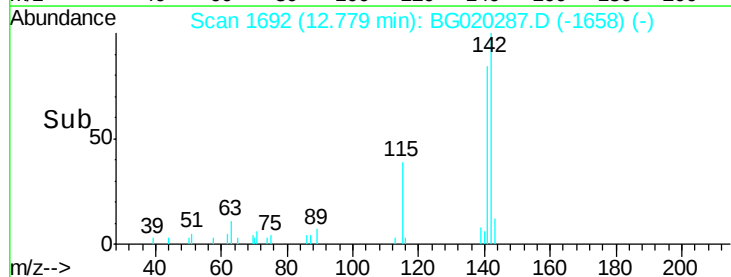
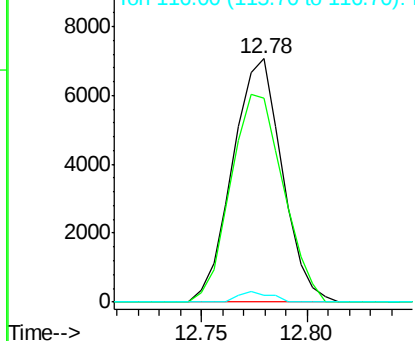


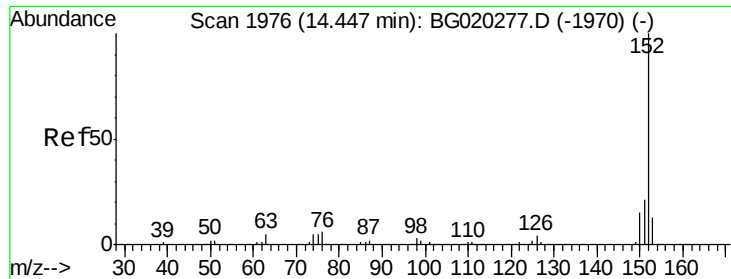
#35  
1-Methylnaphthalene  
Concen: 4.27 ng/ul  
RT: 12.78 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: BG020287.D  
Acq: 18 Dec 2015 22:49

Tgt Ion:142 Resp: 11504  
Ion Ratio Lower Upper  
142 100  
141 84.0 73.0 109.6  
116 2.8 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





#48

Acenaphthylene

Concen: 1.07 ng/ul

RT: 14.45 min Scan# 1976

Delta R.T. 0.00 min

Lab File: BG020287.D

Acq: 18 Dec 2015 22:49

Instrument :

BNA\_G

ClientSampleId :

D9N32

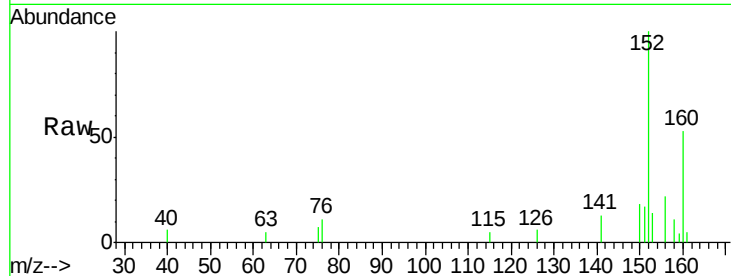
Tgt Ion:152 Resp: 5210

Ion Ratio Lower Upper

152 100

151 17.3 16.4 24.6

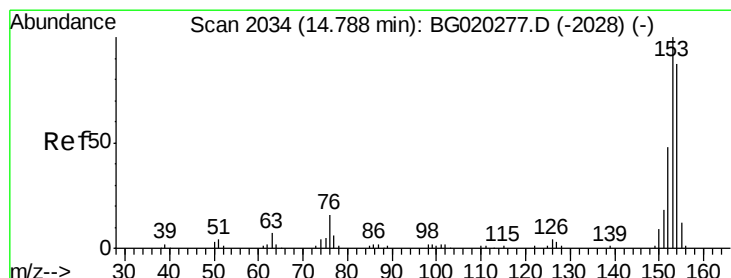
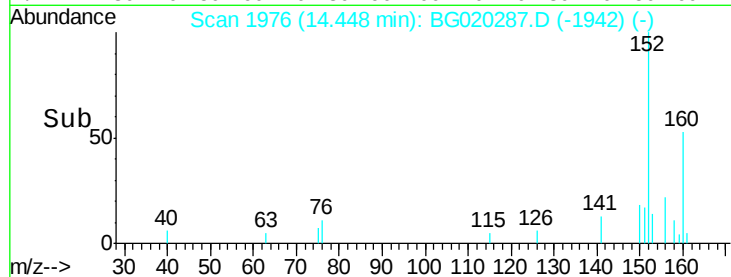
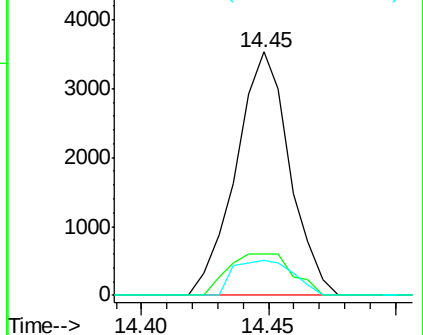
153 14.3 10.4 15.6



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: 5.08 ng/ul

RT: 14.79 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BG020287.D

Acq: 18 Dec 2015 22:49

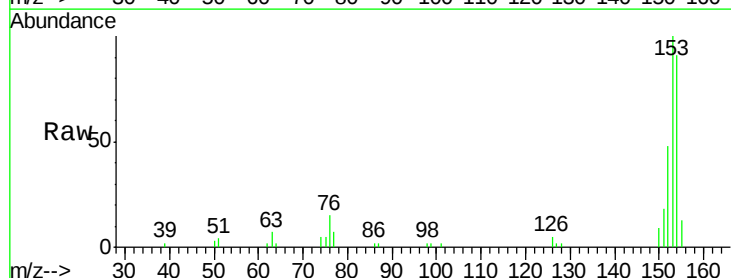
Tgt Ion:153 Resp: 16625

Ion Ratio Lower Upper

153 100

152 47.9 37.6 56.4

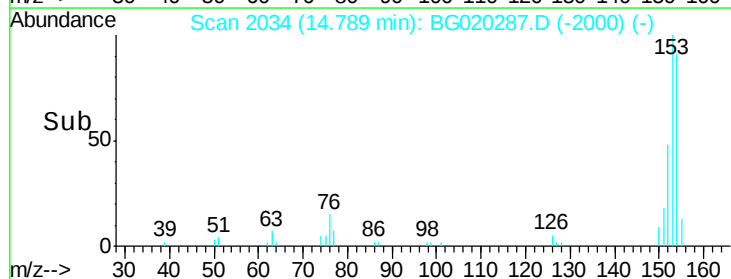
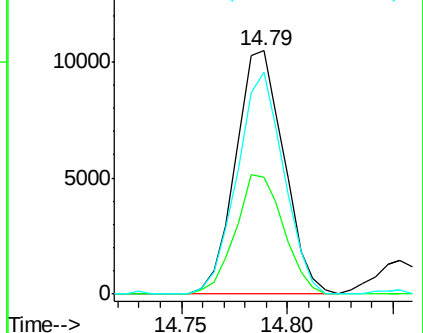
154 91.0 67.9 101.9

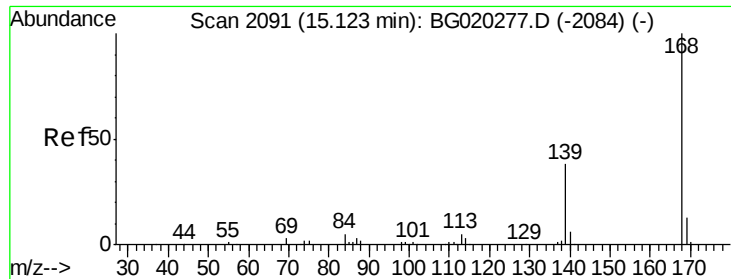


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

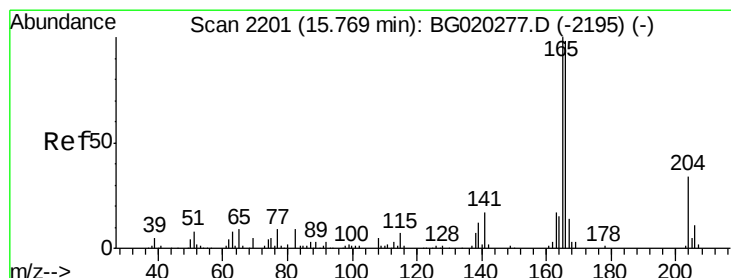
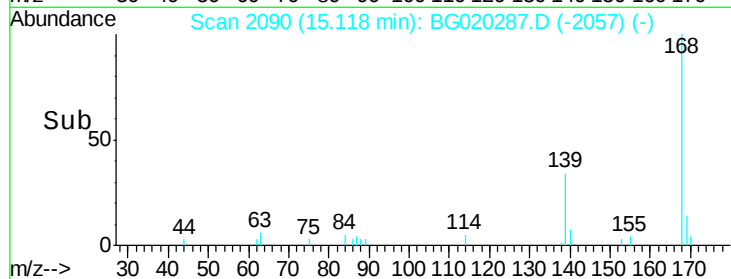
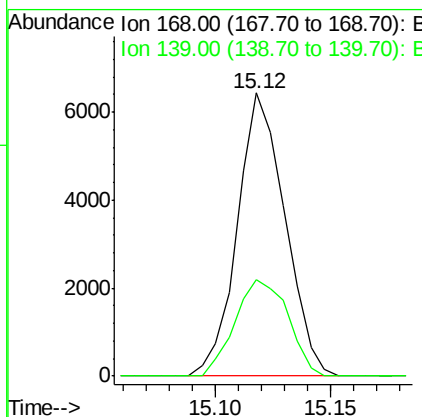
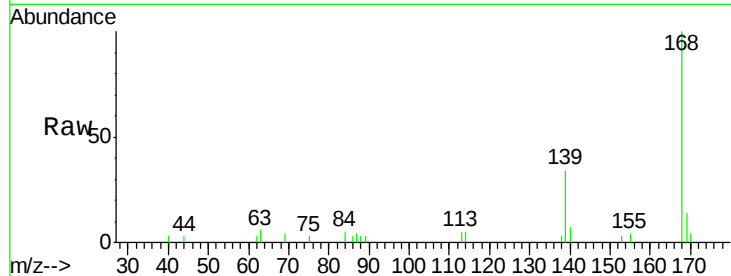




#54  
Dibenzenofuran  
Concen: 1.90 ng/ul  
RT: 15.12 min Scan# 2090  
Delta R.T. -0.01 min  
Lab File: BG020287.D  
Acq: 18 Dec 2015 22:49

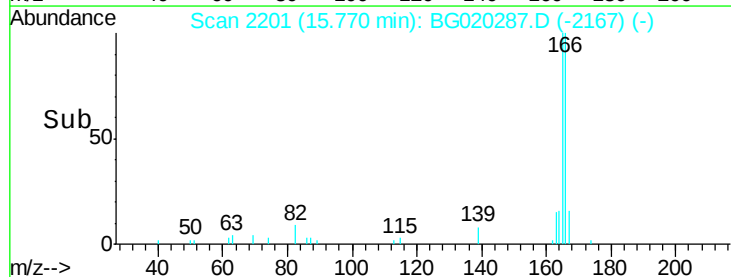
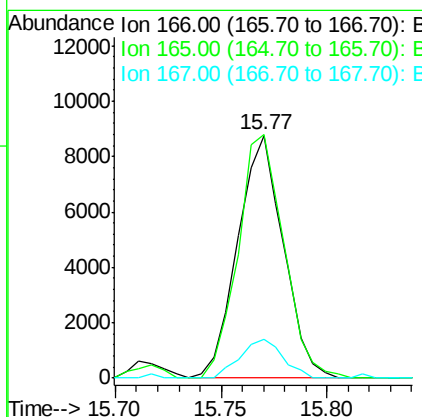
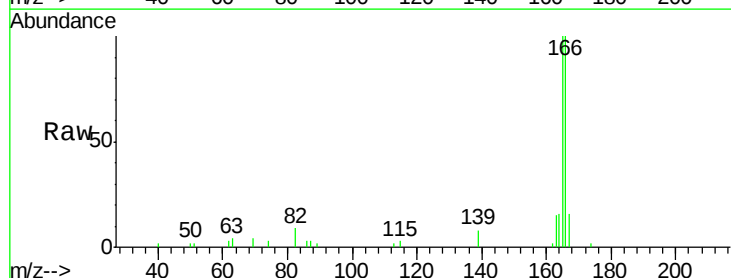
Instrument :  
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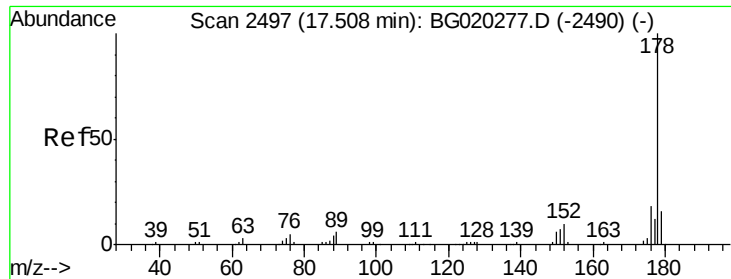
Tgt Ion:168 Resp: 9257  
Ion Ratio Lower Upper  
168 100  
139 34.3 30.5 45.7



#59  
Fluorene  
Concen: 3.35 ng/ul  
RT: 15.77 min Scan# 2201  
Delta R.T. 0.00 min  
Lab File: BG020287.D  
Acq: 18 Dec 2015 22:49

Tgt Ion:166 Resp: 13078  
Ion Ratio Lower Upper  
166 100  
165 100.2 81.4 122.0  
167 15.9 11.2 16.8





#70

Phenanthrene

Concen: 7.83 ng/ul

RT: 17.51 min Scan# 2497

Delta R.T. 0.00 min

Lab File: BG020287.D

Acq: 18 Dec 2015 22:49

Instrument :

BNA\_G

ClientSampleId :

D9N32

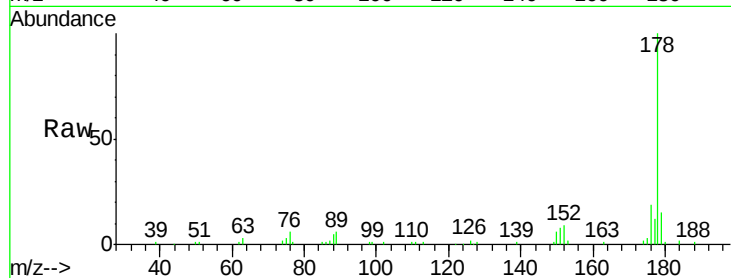
Tgt Ion:178 Resp: 54398

Ion Ratio Lower Upper

178 100

179 15.4 12.9 19.3

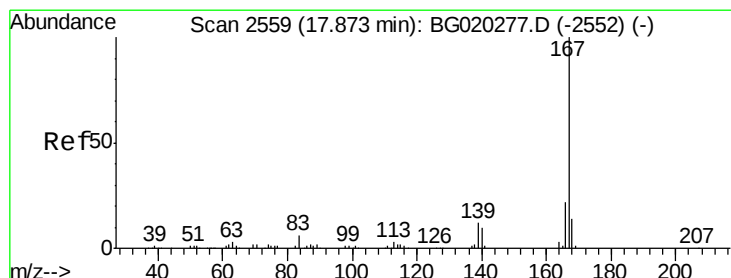
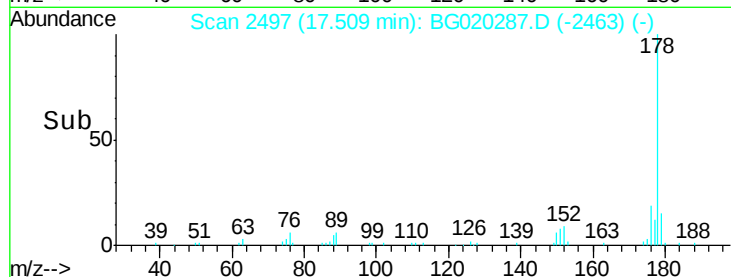
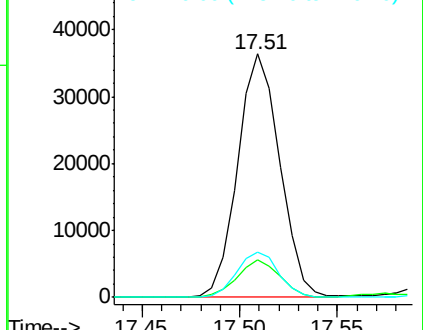
176 18.6 15.3 22.9



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



#75

Carbazole

Concen: 1.11 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. -0.01 min

Lab File: BG020287.D

Acq: 18 Dec 2015 22:49

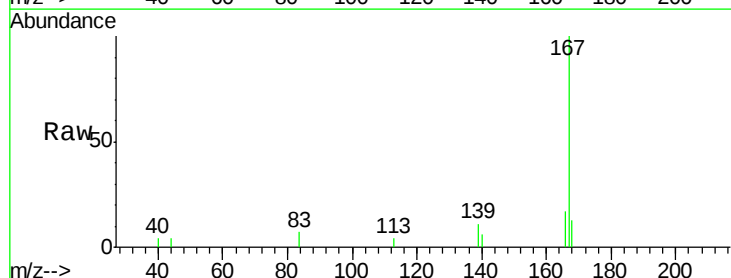
Tgt Ion:167 Resp: 6598

Ion Ratio Lower Upper

167 100

166 16.8 17.0 25.6#

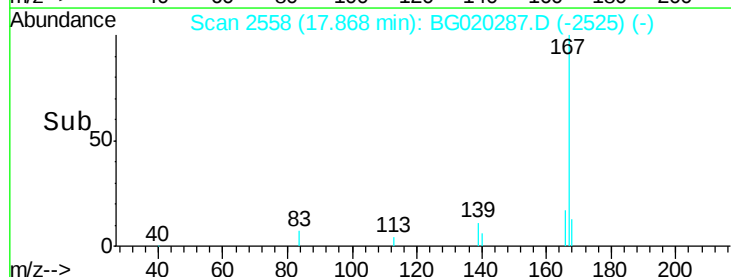
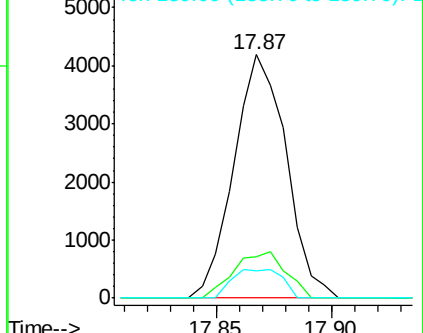
139 10.9 10.1 15.1

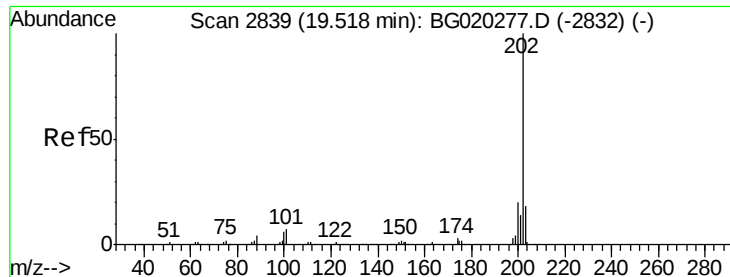


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

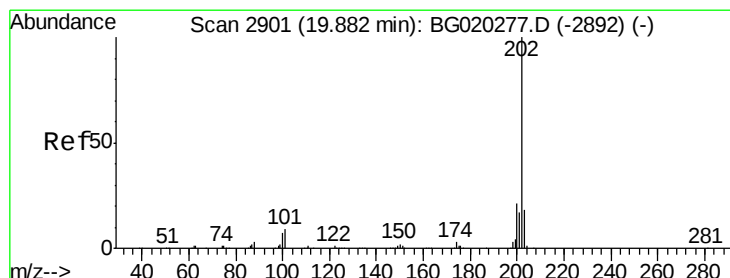
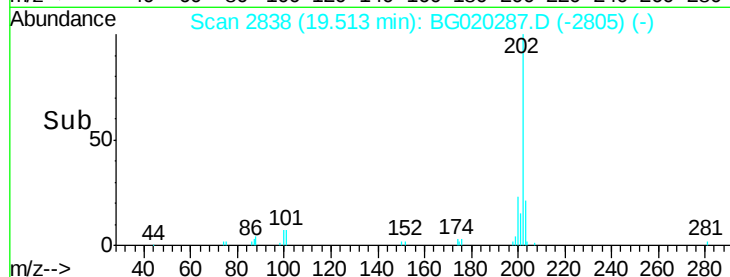
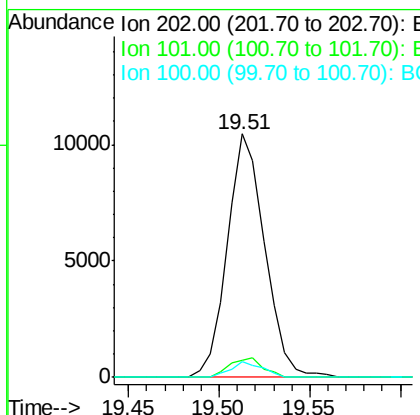
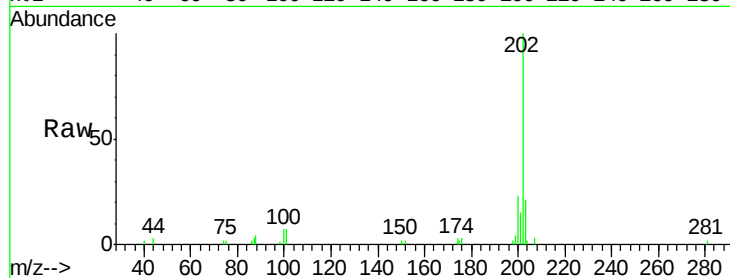




#77  
**Fluoranthene**  
 Concen: 1.85 ng/ul  
 RT: 19.51 min Scan# 2838  
 Delta R.T. -0.01 min  
 Lab File: BG020287.D  
 Acq: 18 Dec 2015 22:49

Instrument :  
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 D9N32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 15045 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 6.9   | 6.2   | 9.4   |
| 100       | 6.5   | 5.1   | 7.7   |



#80  
**Pyrene**  
 Concen: 1.10 ng/ul  
 RT: 19.88 min Scan# 2900  
 Delta R.T. -0.01 min  
 Lab File: BG020287.D  
 Acq: 18 Dec 2015 22:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 11906 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.0   | 7.0   | 10.4  |
| 100       | 7.6   | 6.4   | 9.6   |

