

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122515\  
 Data File : BG020518.D  
 Acq On : 26 Dec 2015 00:23  
 Operator : UM/SJ  
 Sample : G4847-08  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N72

Manual Integrations  
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 12/28/2015 6:06:24 PM

Quant Time: Dec 26 04:49:13 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG122415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Dec 26 02:12:58 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.08  | 152  | 17424    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.90 | 136  | 79312    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.71 | 164  | 57569    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.46 | 188  | 143632   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.72 | 240  | 184591   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.98 | 264  | 174431   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 3) 1,4-Dioxane-d8              | 3.44  | 96   | 403      | 1.28  | ng/uL | 0.00     |
| 5) Phenol-d5                   | 7.23  | 99   | 11611    | 8.31  | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.39  | 67   | 31756    | 38.33 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.61  | 132  | 31862    | 29.71 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.78  | 113  | 23217    | 19.74 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 9.24  | 128  | 23109    | 37.17 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.97  | 143  | 26977    | 38.17 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.52 | 165  | 45980    | 33.61 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 11.04 | 131  | 764      | 0.49  | ng/ul | 0.01     |
| 44) Dimethylphthalate-d6       | 14.11 | 166  | 175075   | 36.90 | ng/ul | 0.00     |
| 47) Acenaphthylene-d8          | 14.41 | 160  | 205556   | 37.39 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 14.92 | 143  | 4514     | 5.71  | ng/ul | 0.00     |
| 58) Fluorene-d10               | 15.70 | 176  | 158903   | 37.03 | ng/ul | 0.00     |
| 63) 4,6-Dinitro-2-methylphenol | 15.82 | 200  | 30212    | 31.74 | ng/ul | 0.00     |
| 71) Anthracene-d10             | 17.56 | 188  | 259988   | 38.65 | ng/ul | 0.00     |
| 79) Pyrene-d10                 | 19.84 | 212  | 315924   | 39.53 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 24.77 | 264  | 350774   | 39.78 | ng/ul | 0.00     |

| Target Compounds        | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-------------------------|-------|------|----------|--------|--------|--------|
| 28) Naphthalene         | 10.98 | 128  | 3557622  | 843.81 | ng/ul# | 79     |
| 34) 2-Methylnaphthalene | 12.55 | 142  | 629658   | 201.84 | ng/ul  | 97     |
| 41) 1,1'-Biphenyl       | 13.54 | 154  | 268203   | 60.37  | ng/ul  | 95     |
| 48) Acenaphthylene      | 14.43 | 152  | 43405    | 7.51   | ng/ul# | 95     |
| 50) Acenaphthene        | 14.79 | 153  | 1056395  | 270.41 | ng/ul  | 96     |
| 54) Dibenzofuran        | 15.11 | 168  | 849551   | 146.16 | ng/ul  | 96     |
| 59) Fluorene            | 15.76 | 166  | 632599   | 134.31 | ng/ul  | 98     |
| 70) Phenanthrene        | 17.51 | 178  | 1642809m | 205.56 | ng/ul  |        |
| 72) Anthracene          | 17.59 | 178  | 93180    | 11.40  | ng/ul  | 98     |
| 75) Carbazole           | 17.87 | 167  | 815971   | 118.48 | ng/ul  | 97     |
| 77) Fluoranthene        | 19.50 | 202  | 387721   | 38.58  | ng/ul  | 98     |
| 80) Pyrene              | 19.87 | 202  | 230220   | 22.05  | ng/ul  | 98     |

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

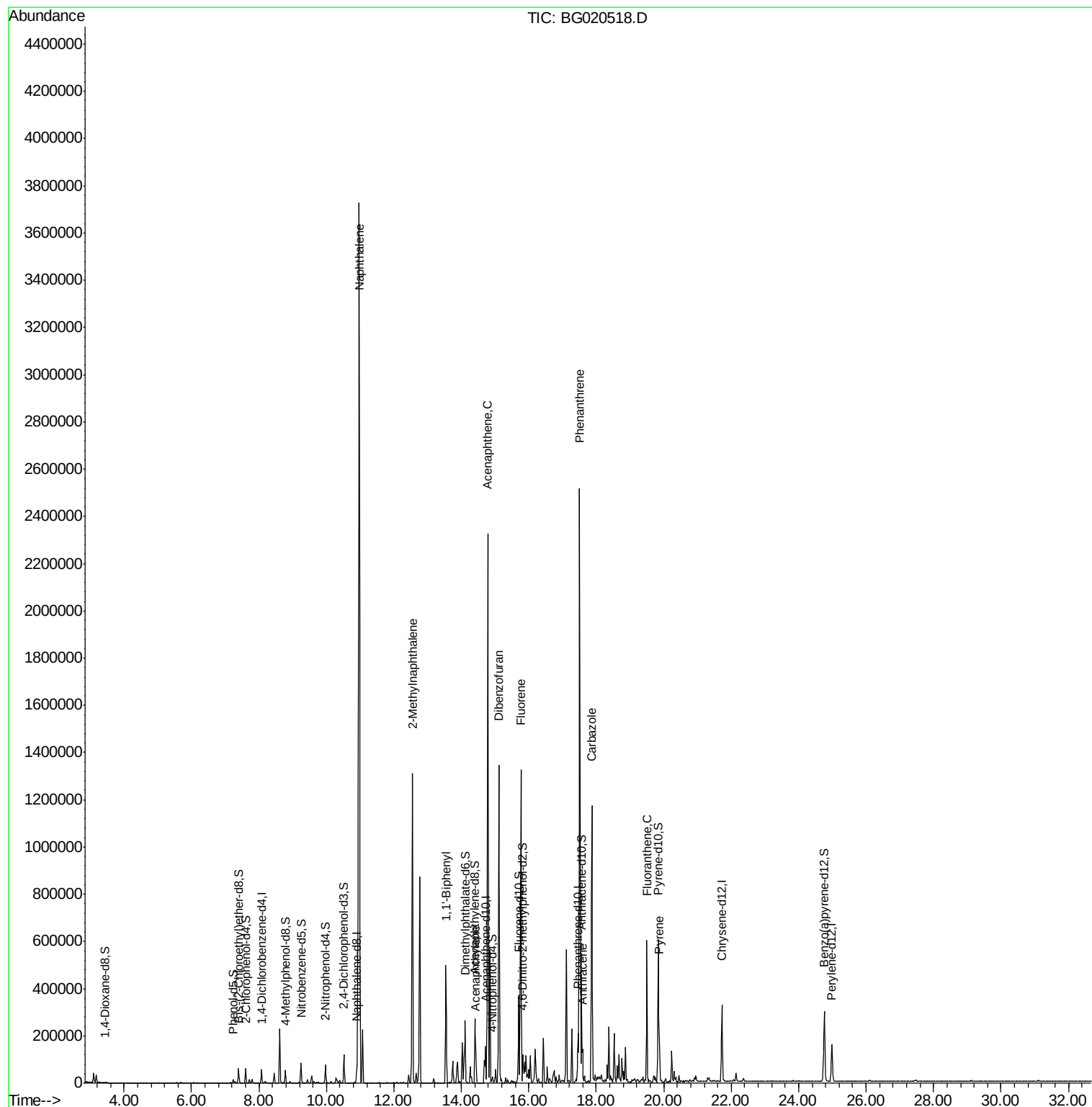
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122515\  
Data File : BG020518.D  
Acq On : 26 Dec 2015 00:23  
Operator : UM/SJ  
Sample : G4847-08  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

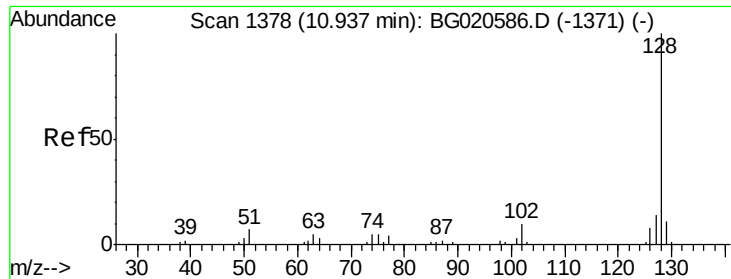
Instrument :  
BNA\_G  
ClientSampleId :  
D9N72

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Quant Time: Dec 26 04:49:13 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG122415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Dec 26 02:12:58 2015  
Response via : Initial Calibration





#28

Naphthalene

Concen: 843.81 ng/ul

RT: 10.98 min Scan# 1385

Delta R.T. 0.03 min

Lab File: BG020518.D

Acq: 26 Dec 2015 00:23

Instrument :

BNA\_G

ClientSampleId :

D9N72

Tot Ion:128 Resp: 3557622

Ion Ratio Lower Upper

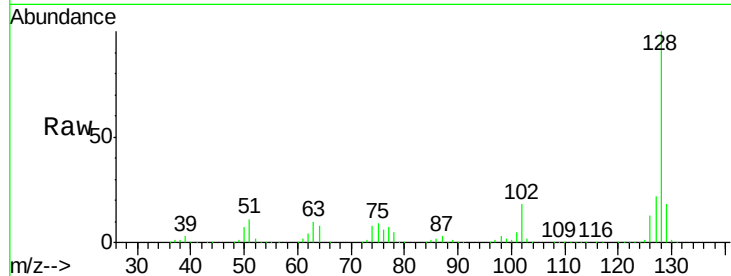
128 100

129 17.9 8.6 12.8#

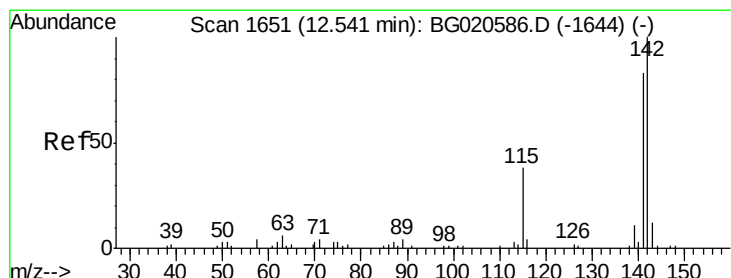
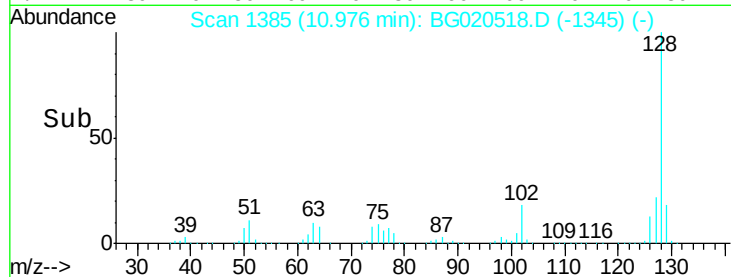
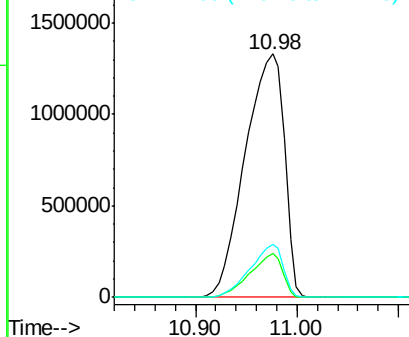
127 21.8 10.1 15.1#

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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



#34

2-Methylnaphthalene

Concen: 201.84 ng/ul

RT: 12.55 min Scan# 1653

Delta R.T. 0.01 min

Lab File: BG020518.D

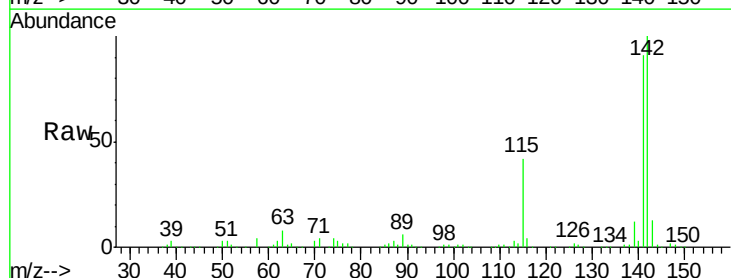
Acq: 26 Dec 2015 00:23

Tgt Ion:142 Resp: 629658

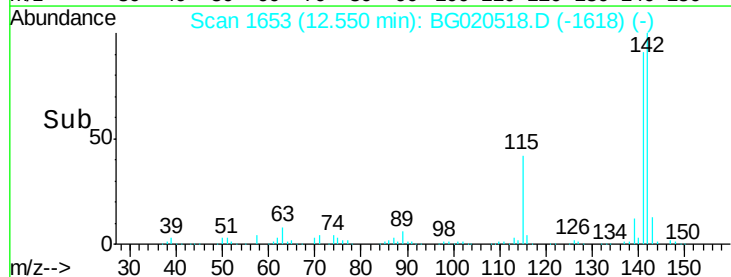
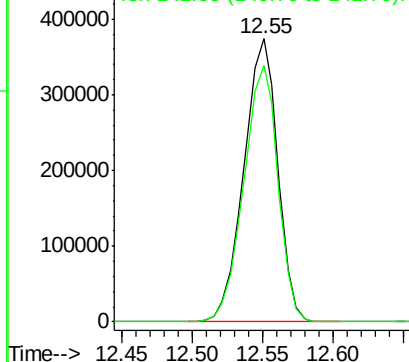
Ion Ratio Lower Upper

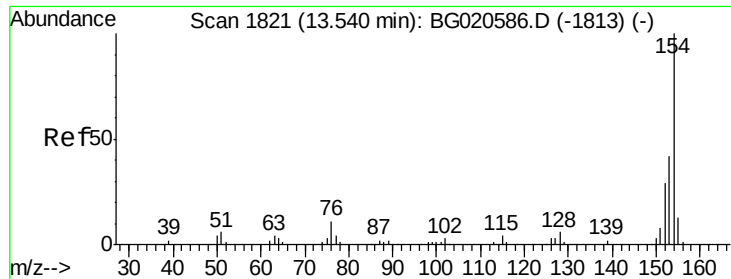
142 100

141 90.6 74.9 112.3



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





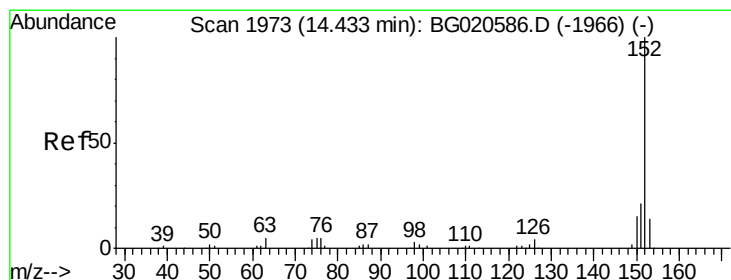
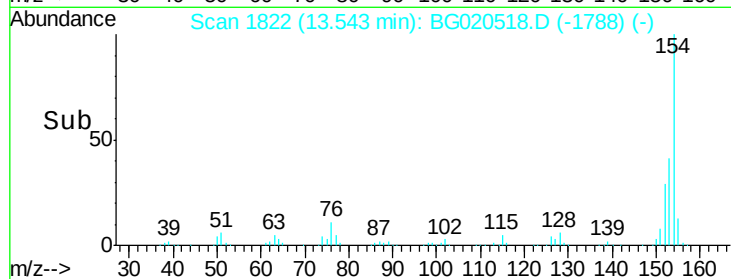
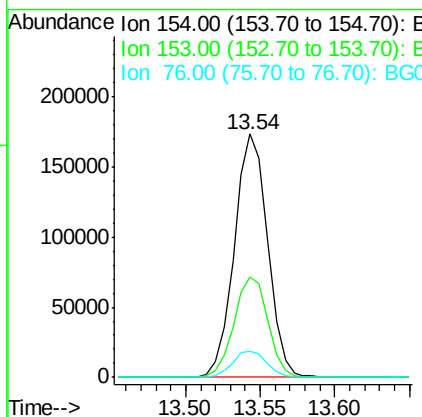
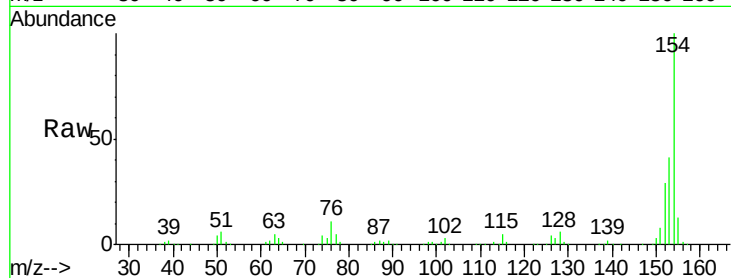
#41  
 1,1'-Biphenyl  
 Concen: 60.37 ng/ul  
 RT: 13.54 min Scan# 1822  
 Delta R.T. -0.00 min  
 Lab File: BG020518.D  
 Acq: 26 Dec 2015 00:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N72

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 268203 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 41.3  | 35.5  | 53.3   |
| 76        | 10.9  | 10.4  | 15.6   |

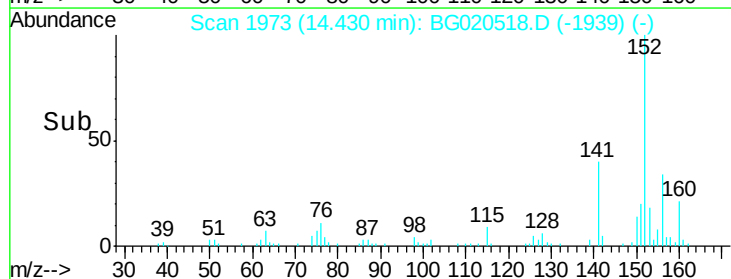
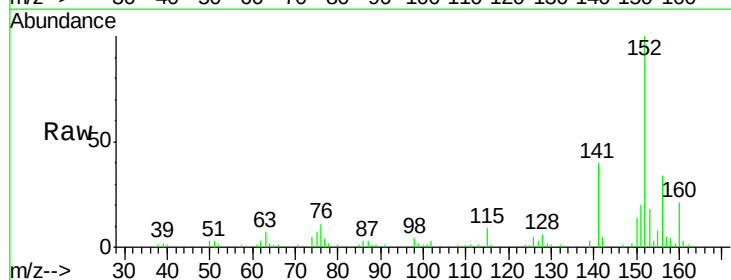
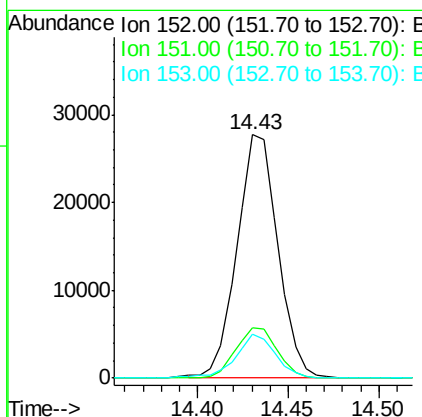
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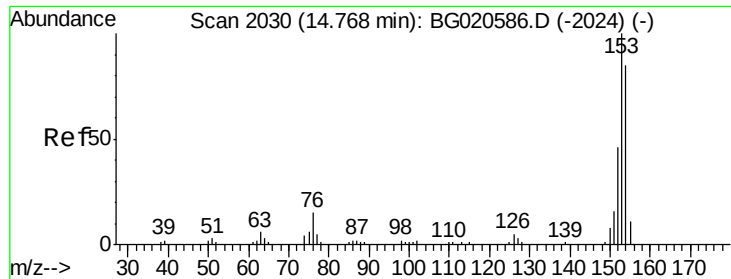
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#48  
 Acenaphthylene  
 Concen: 7.51 ng/ul  
 RT: 14.43 min Scan# 1973  
 Delta R.T. -0.00 min  
 Lab File: BG020518.D  
 Acq: 26 Dec 2015 00:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 43405 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.5  | 16.4  | 24.6  |
| 153       | 18.0  | 10.4  | 15.6# |





#50

Acenaphthene

Concen: 270.41 ng/ul

RT: 14.79 min Scan# 2034

Delta R.T. 0.02 min

Lab File: BG020518.D

Acq: 26 Dec 2015 00:23

Instrument :

BNA\_G

ClientSampleId :

D9N72

Tot Ion:153 Resp: 1056395

Ion Ratio Lower Upper

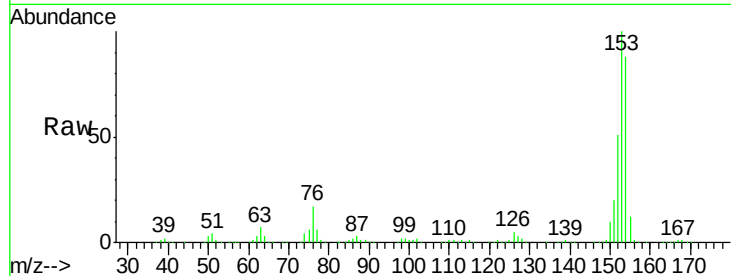
153 100

152 51.0 37.6 56.4

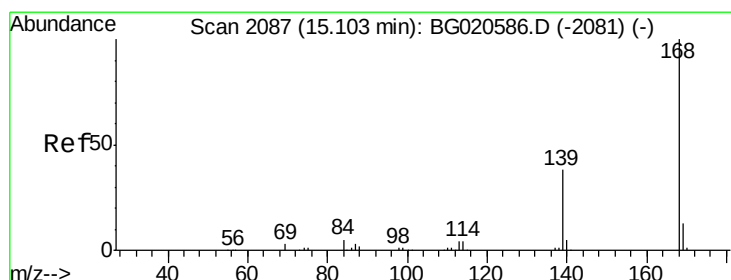
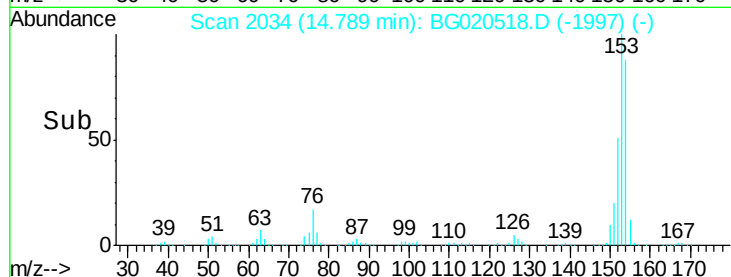
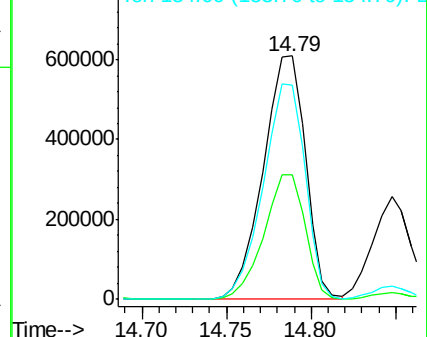
154 88.1 67.9 101.9

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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: 146.16 ng/ul

RT: 15.11 min Scan# 2089

Delta R.T. 0.01 min

Lab File: BG020518.D

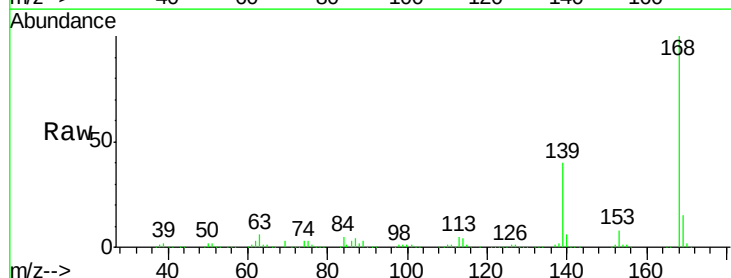
Acq: 26 Dec 2015 00:23

Tgt Ion:168 Resp: 849551

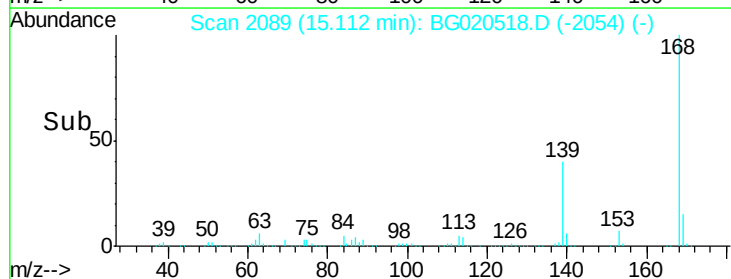
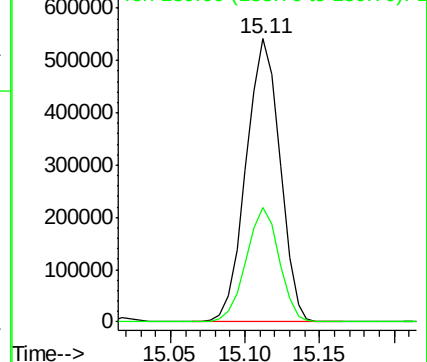
Ion Ratio Lower Upper

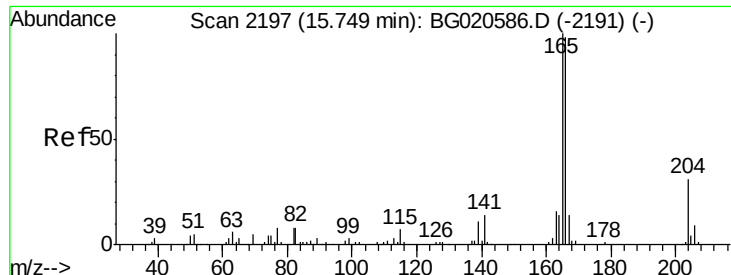
168 100

139 40.5 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E





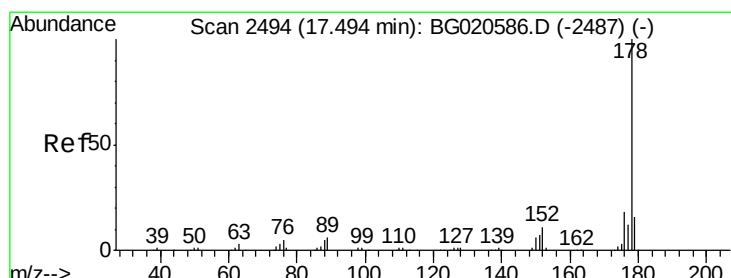
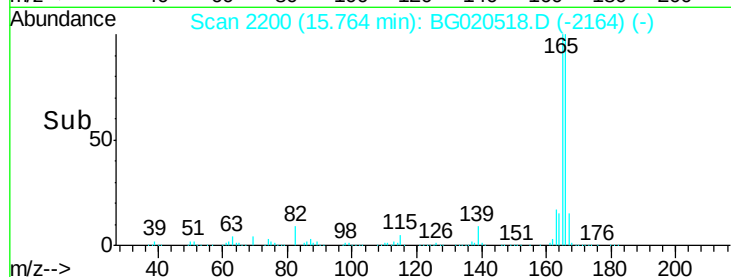
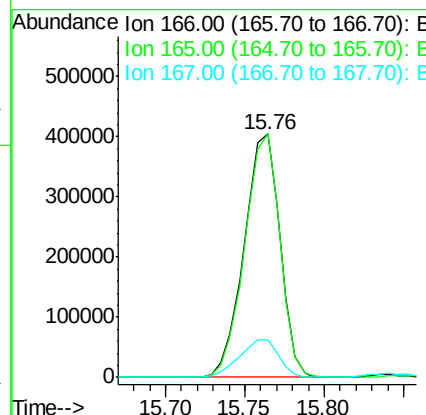
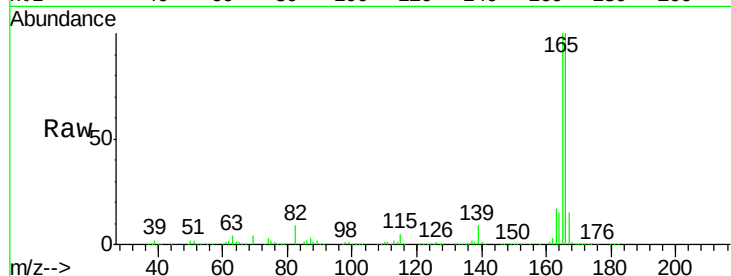
#59  
 Fluorene  
 Concen: 134.31 ng/ul  
 RT: 15.76 min Scan# 2200  
 Delta R.T. 0.01 min  
 Lab File: BG020518.D  
 Acq: 26 Dec 2015 00:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N72

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 632599 |       |       |
| 165     | 100.1 | 81.4   | 122.0 |       |
| 167     | 15.2  | 11.2   | 16.8  |       |

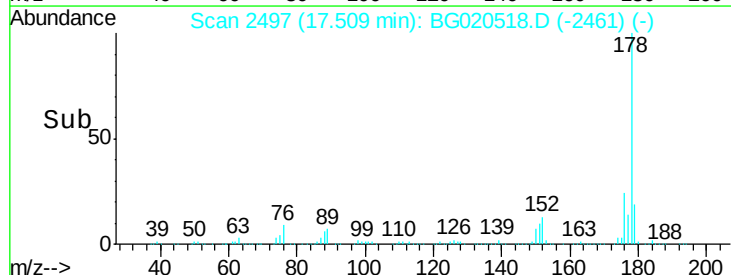
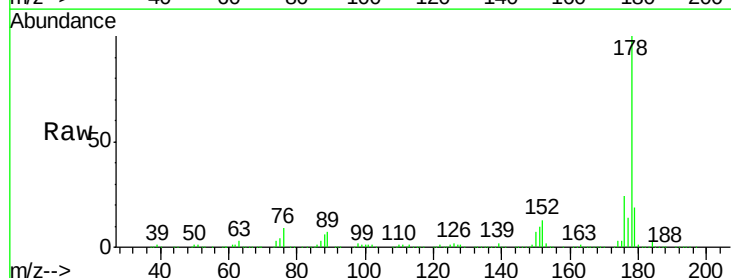
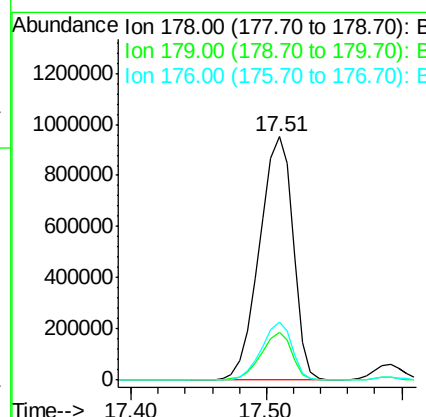
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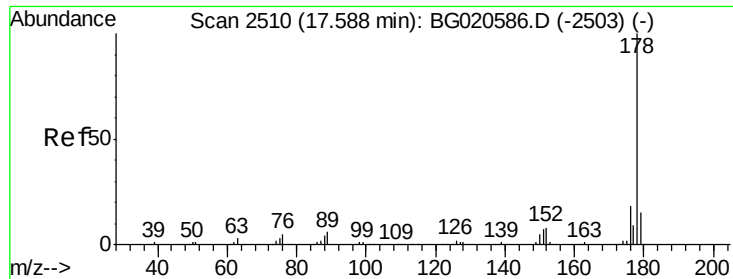
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#70  
 Phenanthrene  
 Concen: 205.56 ng/ul m  
 RT: 17.51 min Scan# 2497  
 Delta R.T. 0.01 min  
 Lab File: BG020518.D  
 Acq: 26 Dec 2015 00:23

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 1642809 |       |       |
| 179     | 19.5  | 12.9    | 19.3# |       |
| 176     | 23.8  | 15.3    | 22.9# |       |





#72

Anthracene

Concen: 11.40 ng/ul

RT: 17.59 min Scan# 2511

Delta R.T. 0.01 min

Lab File: BG020518.D

Acq: 26 Dec 2015 00:23

Instrument :

BNA\_G

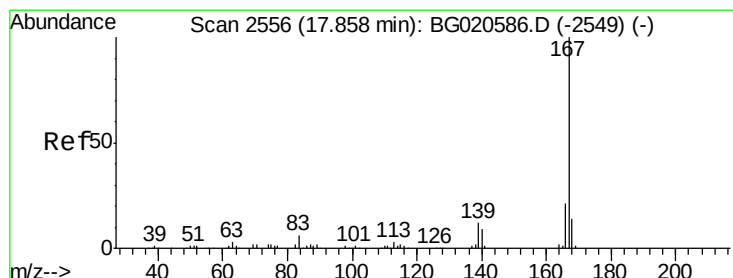
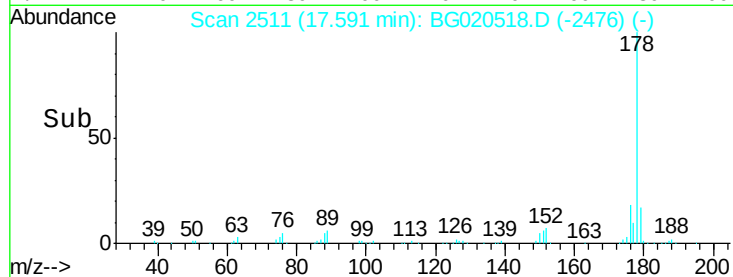
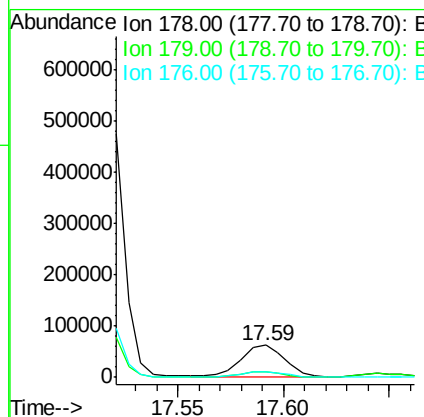
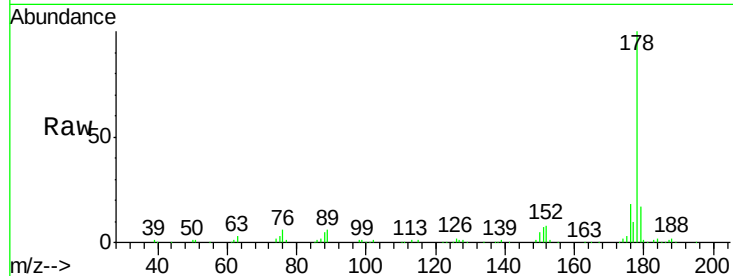
ClientSampleId :

D9N72

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 93180 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.5  | 12.3  | 18.5  |
| 176       | 18.5  | 14.3  | 21.5  |

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#75

Carbazole

Concen: 118.48 ng/ul

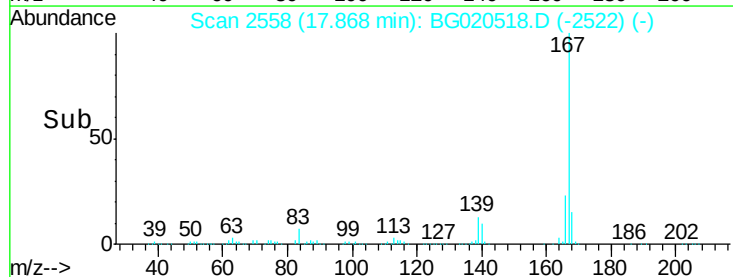
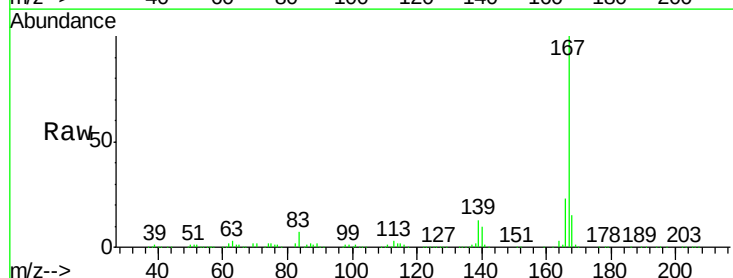
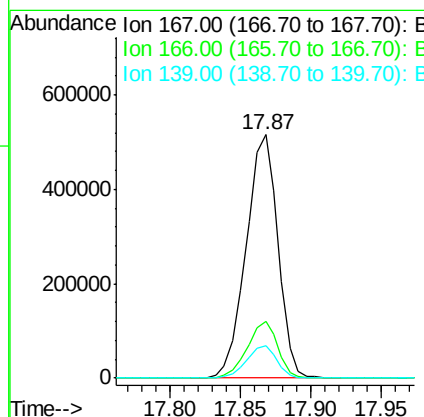
RT: 17.87 min Scan# 2558

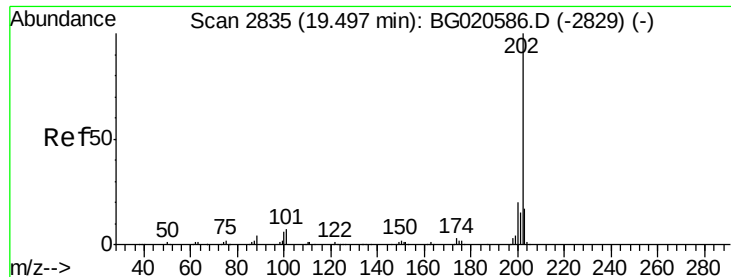
Delta R.T. 0.01 min

Lab File: BG020518.D

Acq: 26 Dec 2015 00:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 815971 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 23.1  | 17.0  | 25.6   |
| 139       | 13.4  | 10.1  | 15.1   |





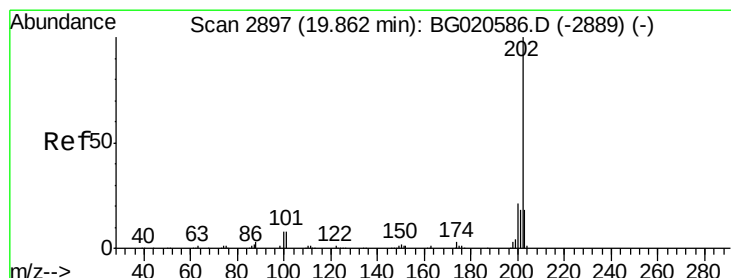
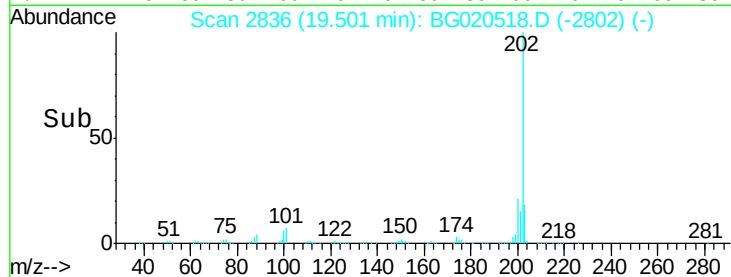
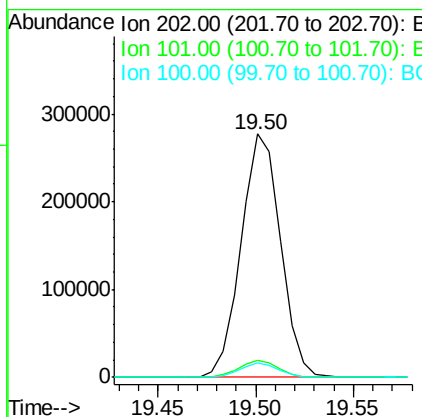
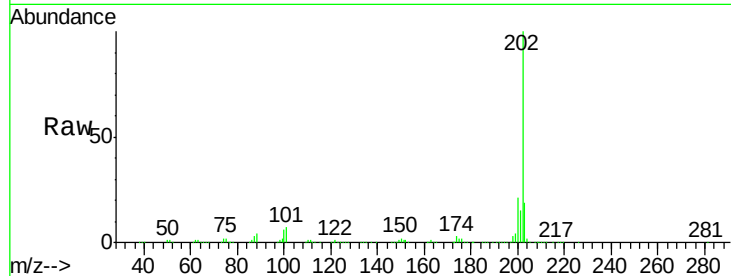
#77  
 Fluoranthene  
 Concen: 38.58 ng/ul  
 RT: 19.50 min Scan# 2836  
 Delta R.T. -0.00 min  
 Lab File: BG020518.D  
 Acq: 26 Dec 2015 00:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N72

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 387721 |       |       |
| 101     | 7.0 | 6.2   | 9.4    |       |       |
| 100     | 5.8 | 5.1   | 7.7    |       |       |

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#80  
 Pyrene  
 Concen: 22.05 ng/ul  
 RT: 19.87 min Scan# 2898  
 Delta R.T. -0.00 min  
 Lab File: BG020518.D  
 Acq: 26 Dec 2015 00:23

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 230220 |       |       |
| 101     | 8.2 | 7.0   | 10.4   |       |       |
| 100     | 7.1 | 6.4   | 9.6    |       |       |

