

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG061617\  
 Data File : BG027514.D  
 Acq On : 17 Jun 2017 19:49  
 Operator : SJ/MA  
 Sample : I3599-15  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 F5C91

Manual Integrations  
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mohammad  
 6/19/2017 9:13:38 AM

Quant Time: Jun 19 02:32:23 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG061617.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 19 01:52:26 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.52  | 152  | 41939    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.33 | 136  | 217655   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 15.11 | 164  | 139316   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.86 | 188  | 314463   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.23 | 240  | 339109   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.89 | 264  | 328320   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 4.08  | 96  | 2026   | 1.93  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.66  | 99  | 58017  | 12.76 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.83  | 67  | 40869  | 13.18 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 8.05  | 132 | 39997  | 13.31 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.20  | 113 | 49504  | 13.92 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.68  | 128 | 20962  | 13.26 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.41 | 143 | 23479  | 13.98 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.94 | 165 | 44941  | 14.16 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.46 | 131 | 48163  | 11.99 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.49 | 166 | 168083 | 14.41 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.80 | 160 | 196636 | 14.64 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.27 | 143 | 24189  | 10.60 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 16.09 | 176 | 154148 | 14.09 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.19 | 200 | 24008  | 12.29 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.96 | 188 | 239103 | 16.31 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.22 | 212 | 265443 | 16.03 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.63 | 264 | 241055 | 16.31 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Qvalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene            | 11.39 | 128 | 16503   | 1.475  | ng/ul# | 93 |
| 44) Dimethylphthalate      | 14.54 | 163 | 68909   | 5.956  | ng/ul# | 96 |
| 47) Acenaphthylene         | 14.84 | 152 | 15372   | 1.142  | ng/ul# | 89 |
| 69) Phenanthrene           | 17.90 | 178 | 47139   | 2.789  | ng/ul  | 99 |
| 71) Anthracene             | 17.99 | 178 | 23763   | 1.383  | ng/ul  | 98 |
| 74) Fluoranthene           | 19.89 | 202 | 200414  | 10.541 | ng/ul# | 87 |
| 77) Pyrene                 | 20.25 | 202 | 205329  | 10.243 | ng/ul# | 84 |
| 80) Benzo(a)anthracene     | 22.21 | 228 | 127778  | 6.766  | ng/ul  | 94 |
| 82) Chrysene               | 22.29 | 228 | 173213  | 10.156 | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene   | 24.72 | 252 | 466888  | 23.877 | ng/ul# | 94 |
| 86) Benzo(k)fluoranthene   | 24.79 | 252 | 130397m | 6.938  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 25.71 | 252 | 210423  | 11.208 | ng/ul# | 94 |
| 89) Indeno(1,2,3-cd)pyrene | 30.09 | 276 | 227355  | 10.608 | ng/ul# | 86 |
| 90) Dibenzo(a,h)anthracene | 30.15 | 278 | 60440m  | 3.285  | ng/ul  |    |
| 91) Benzo(g,h,i)perylene   | 31.40 | 276 | 136864  | 7.800  | ng/ul# | 91 |

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

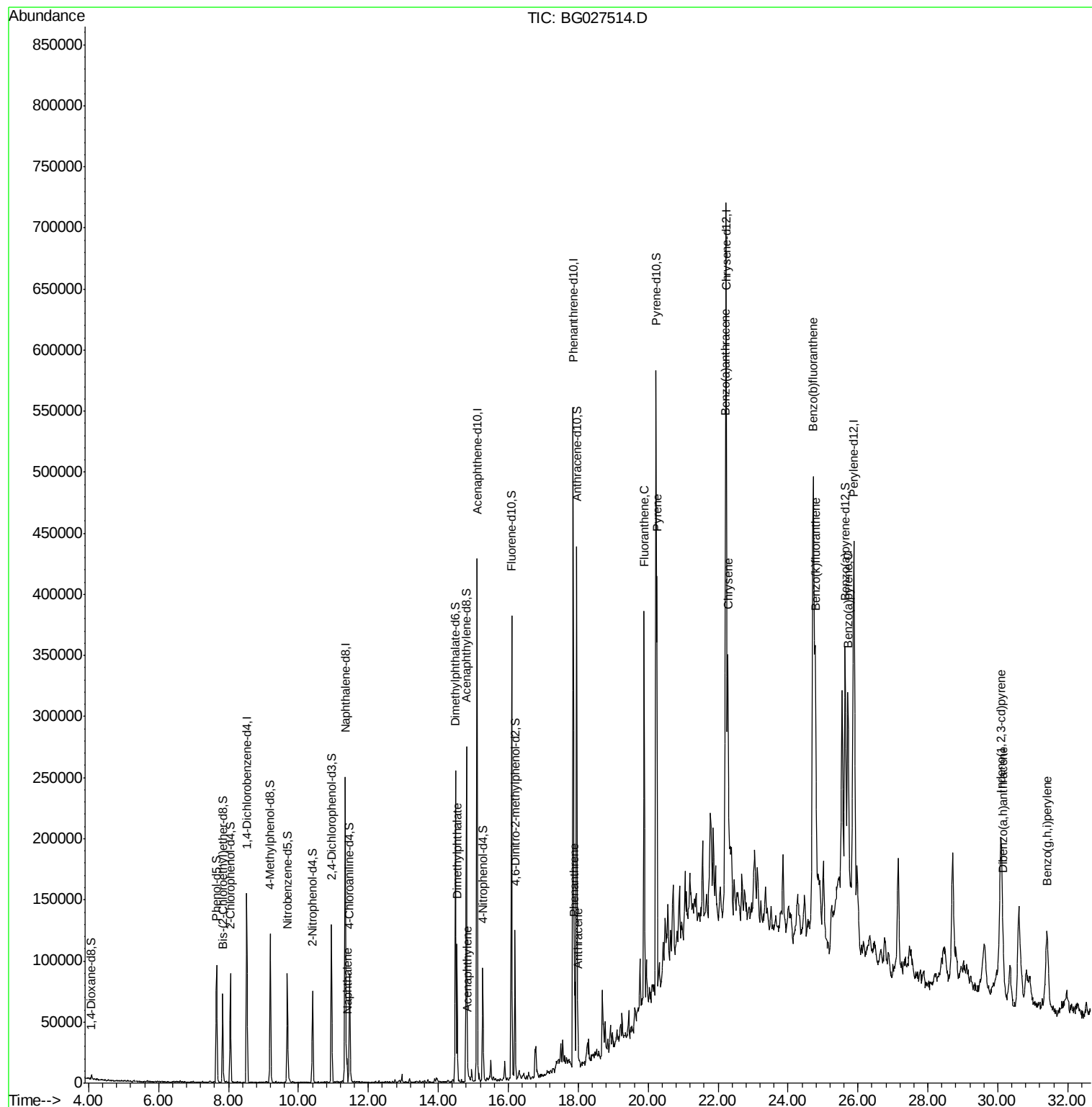
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG061617\  
Data File : BG027514.D  
Acq On : 17 Jun 2017 19:49  
Operator : SJ/MA  
Sample : I3599-15  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

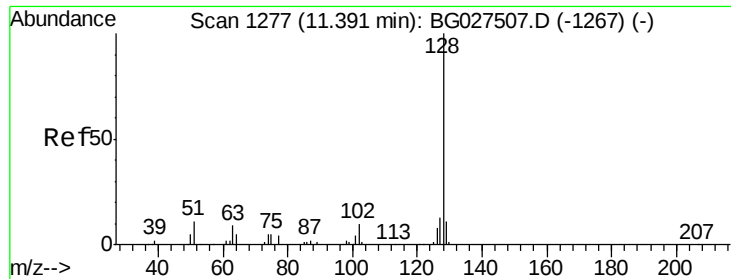
Instrument :  
BNA\_G  
ClientSampled :  
F5C91

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Quant Time: Jun 19 02:32:23 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG061617.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 19 01:52:26 2017  
Response via : Initial Calibration





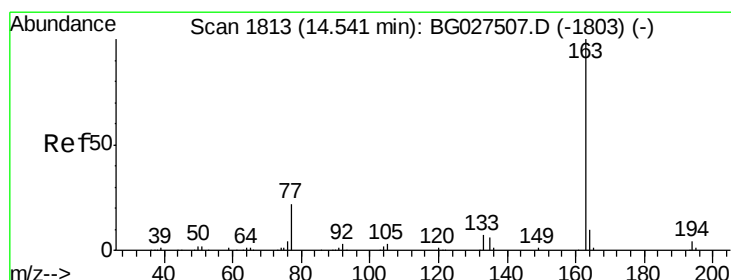
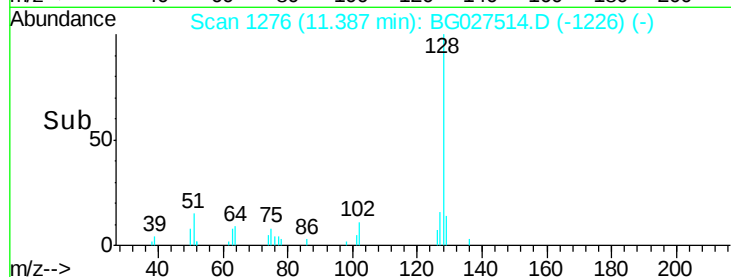
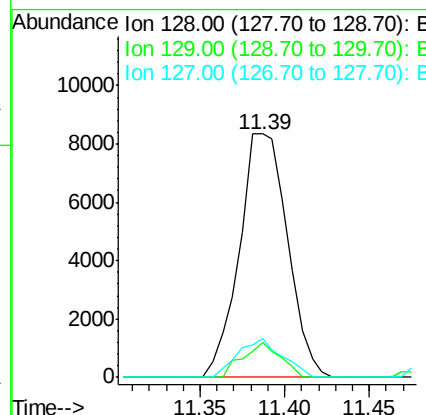
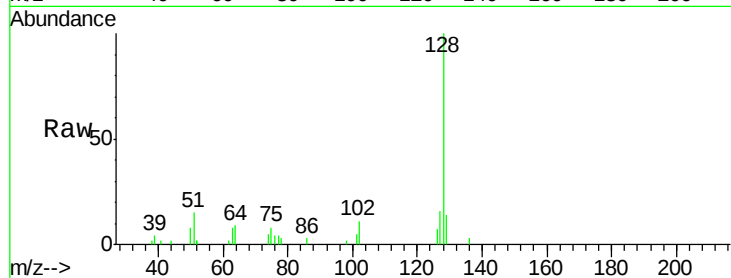
#28  
Naphthalene  
Concen: 1.475 ng/ul  
RT: 11.39 min Scan# 1276  
Delta R.T. -0.00 min  
Lab File: BG027514.D  
Acq: 17 Jun 2017 19:49

Instrument :  
BNA\_G  
ClientSampleId :  
F5C91

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 14.4  | 9.4   | 14.2# |
| 127     | 16.0  | 10.3  | 15.5# |

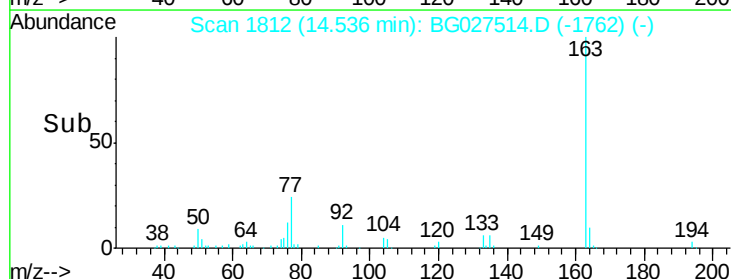
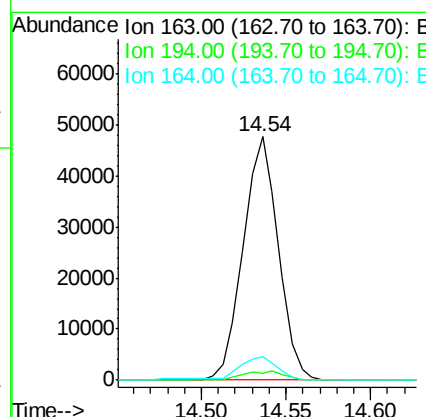
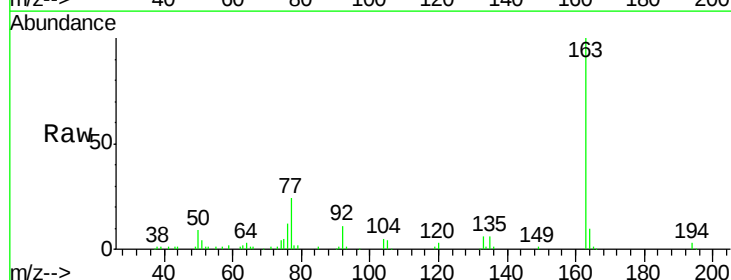
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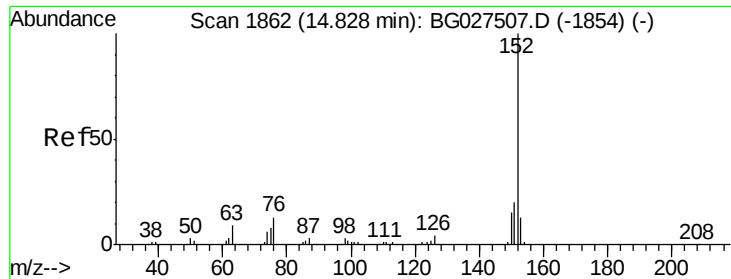
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#44  
Dimethylphthalate  
Concen: 5.956 ng/ul  
RT: 14.54 min Scan# 1812  
Delta R.T. -0.00 min  
Lab File: BG027514.D  
Acq: 17 Jun 2017 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 2.9   | 3.4   | 5.0#  |
| 164     | 9.7   | 9.0   | 13.4  |





#47

Acenaphthylene

Concen: 1.142 ng/ul

RT: 14.84 min Scan# 1863

Delta R.T. 0.01 min

Lab File: BG027514.D

Acq: 17 Jun 2017 19:49

Instrument :

BNA\_G

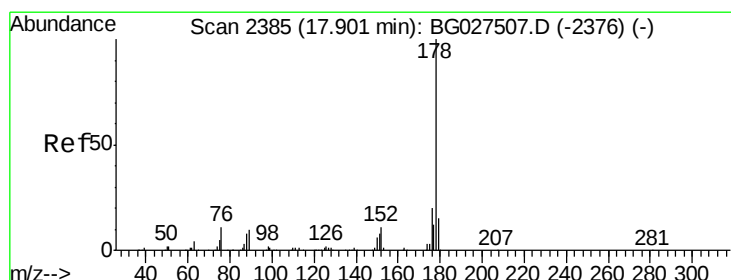
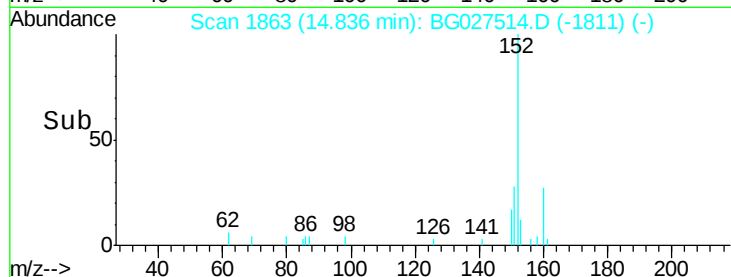
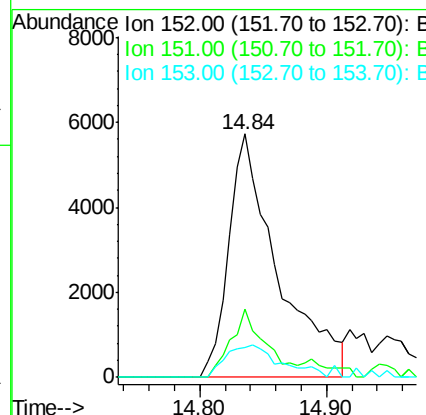
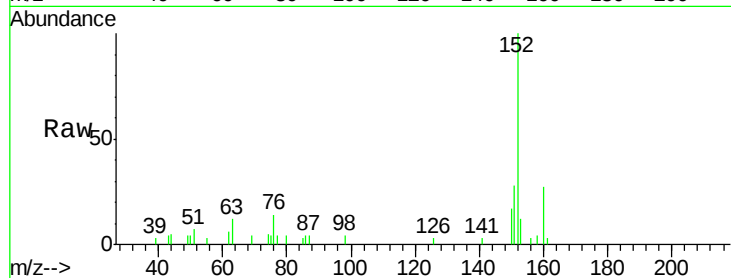
ClientSampleId :

F5C91

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 15372 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 28.0  | 16.7  | 25.1# |
| 153       | 12.1  | 11.4  | 17.2  |

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#69

Phenanthrene

Concen: 2.789 ng/ul

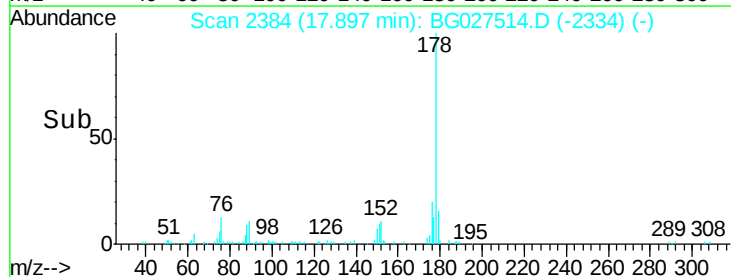
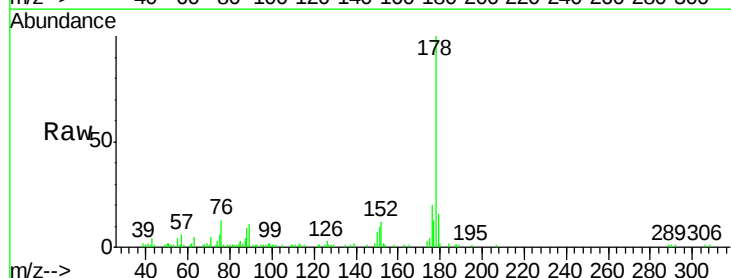
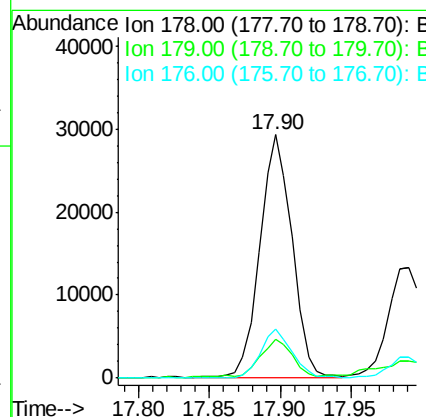
RT: 17.90 min Scan# 2384

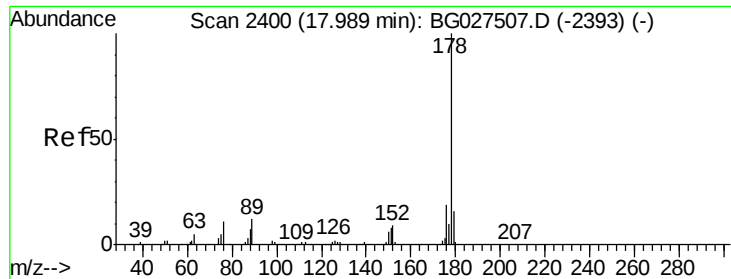
Delta R.T. -0.00 min

Lab File: BG027514.D

Acq: 17 Jun 2017 19:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 47139 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.7  | 12.4  | 18.6  |
| 176       | 20.0  | 16.5  | 24.7  |





#71

Anthracene

Concen: 1.383 ng/ul

RT: 17.99 min Scan# 2400

Delta R.T. 0.00 min

Lab File: BG027514.D

Acq: 17 Jun 2017 19:49

Instrument :

BNA\_G

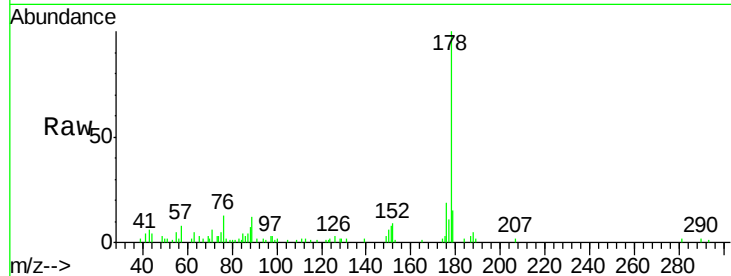
ClientSampleId :

F5C91

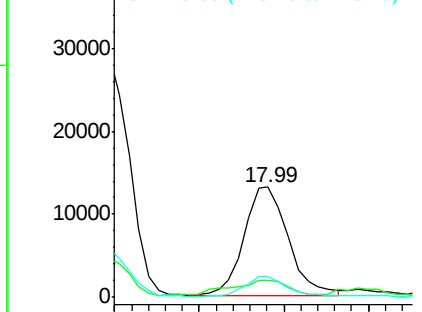
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 23763 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.1  | 12.6  | 19.0  |
| 176       | 18.6  | 15.9  | 23.9  |

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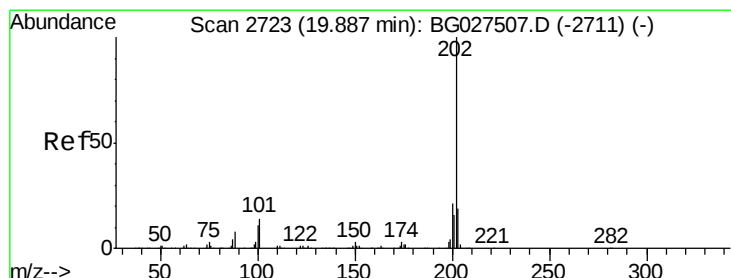
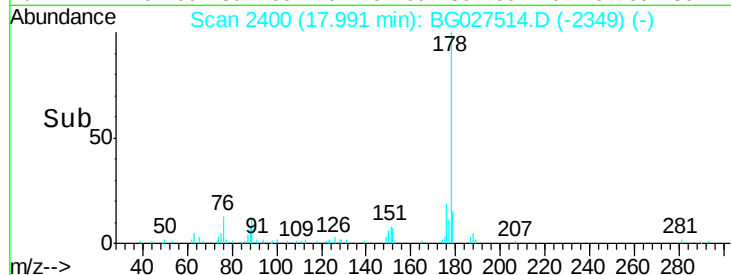
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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



Time--> 17.90 17.95 18.00 18.05



#74

Fluoranthene

Concen: 10.541 ng/ul

RT: 19.89 min Scan# 2723

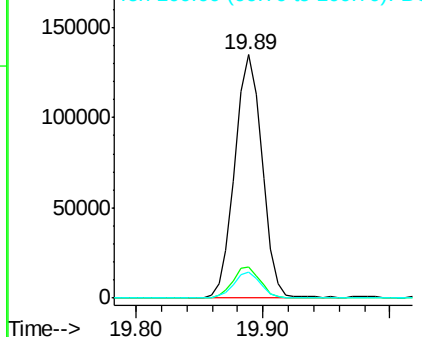
Delta R.T. 0.00 min

Lab File: BG027514.D

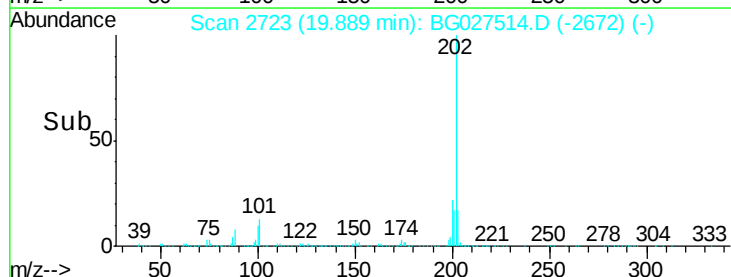
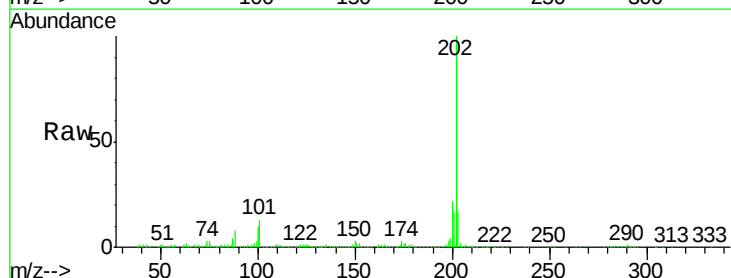
Acq: 17 Jun 2017 19:49

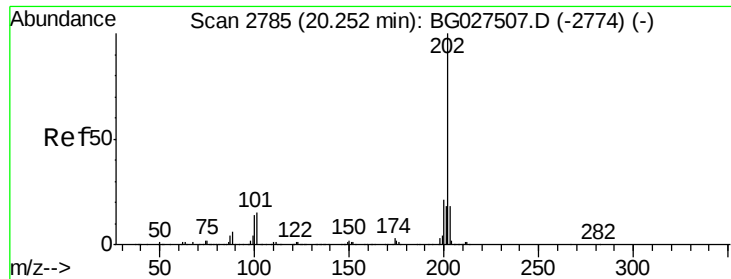
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 200414 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.7  | 6.2   | 9.2#   |
| 100       | 10.4  | 5.2   | 7.8#   |

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



Time--> 19.80 19.90





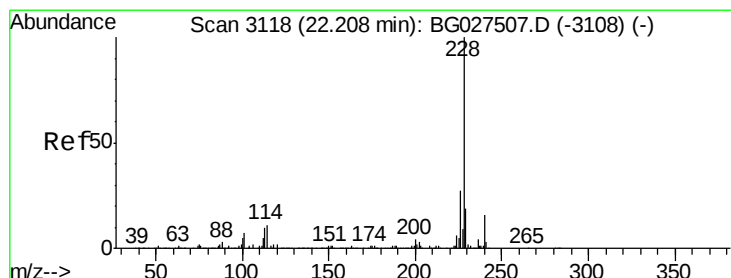
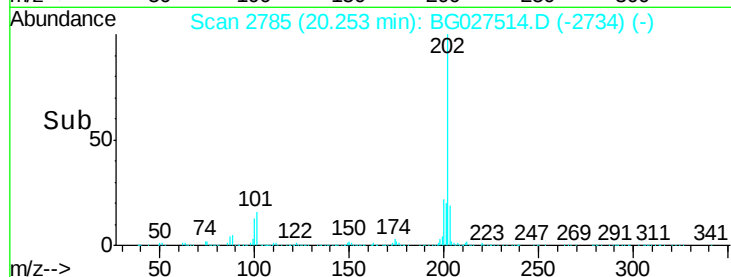
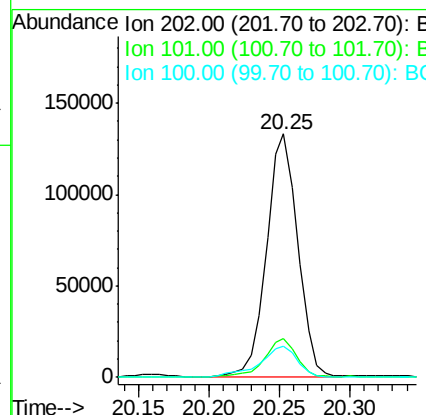
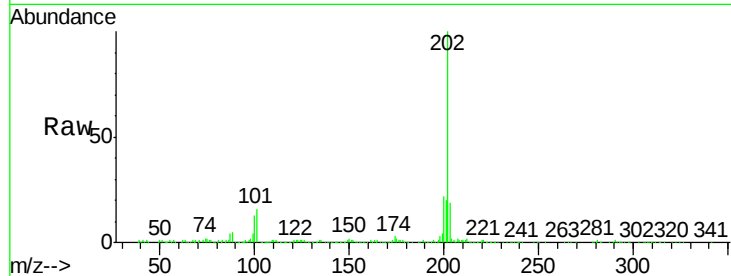
#77  
 Pyrene  
 Concen: 10.243 ng/ul  
 RT: 20.25 min Scan# 2785  
 Delta R.T. 0.00 min  
 Lab File: BG027514.D  
 Acq: 17 Jun 2017 19:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 F5C91

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 15.8  | 6.9        | 10.3#      |
| 100     | 12.8  | 6.6        | 10.0#      |

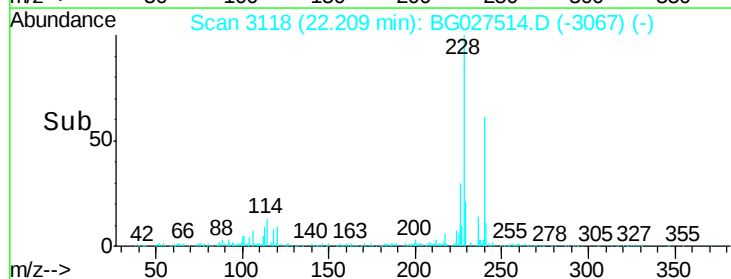
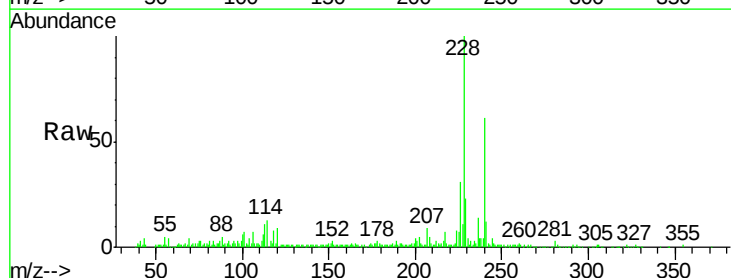
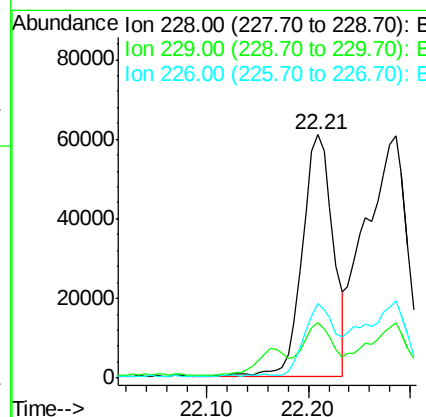
Manual Integrations  
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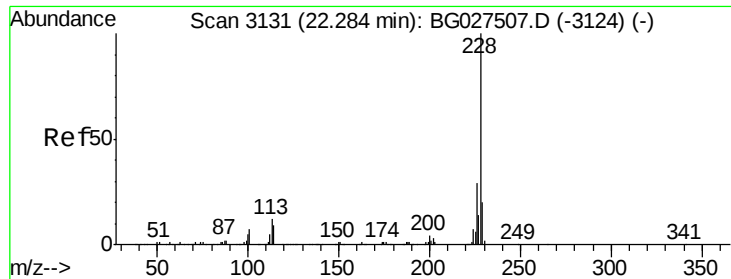
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 6/19/2017 9:13:38 AM



#80  
 Benzo(a)anthracene  
 Concen: 6.766 ng/ul  
 RT: 22.21 min Scan# 3118  
 Delta R.T. 0.00 min  
 Lab File: BG027514.D  
 Acq: 17 Jun 2017 19:49

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 22.7  | 16.3       | 24.5       |
| 226     | 30.5  | 21.9       | 32.9       |





#82

Chrysene

Concen: 10.156 ng/ul

RT: 22.29 min Scan# 3131

Delta R.T. 0.00 min

Lab File: BG027514.D

Acq: 17 Jun 2017 19:49

Instrument :

BNA\_G

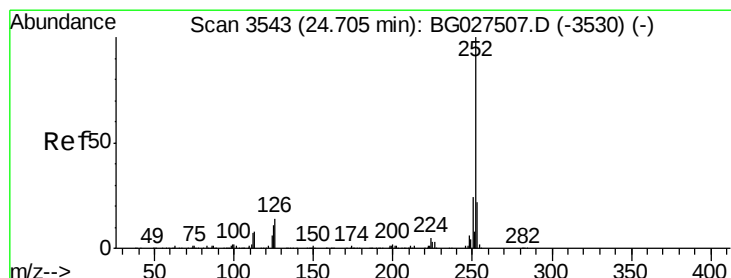
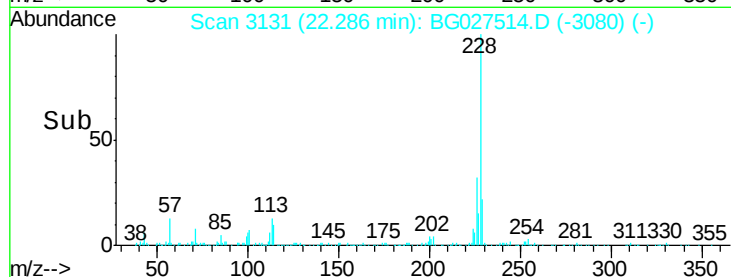
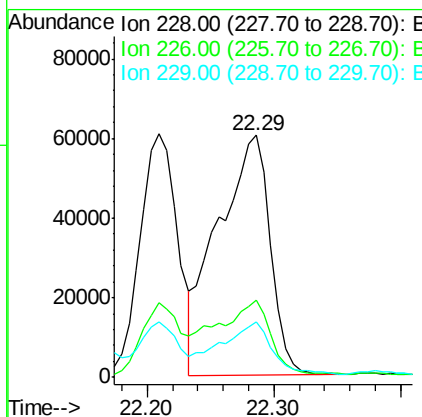
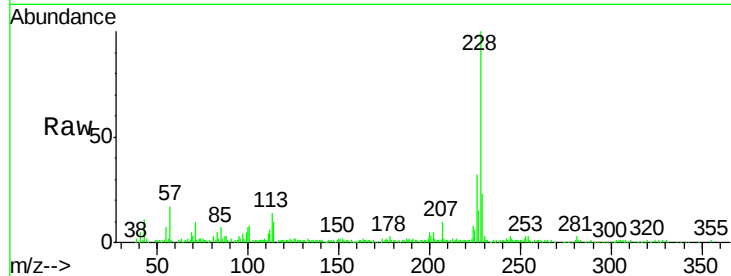
ClientSampleId :

F5C91

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 173213 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.8  | 24.0  | 36.0   |
| 229       | 23.0  | 16.9  | 25.3   |

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#85

Benzo(b)fluoranthene

Concen: 23.877 ng/ul

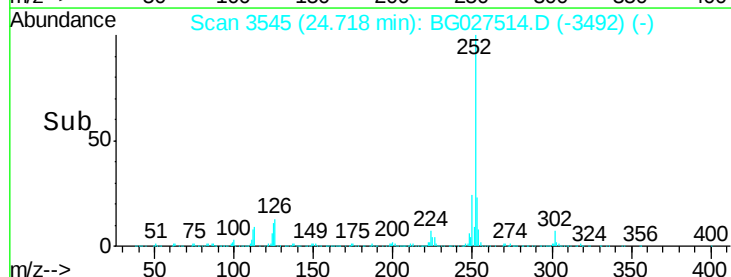
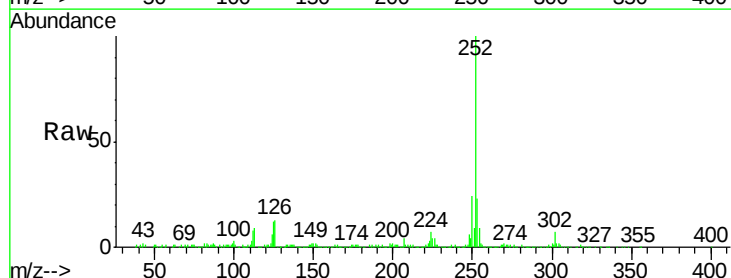
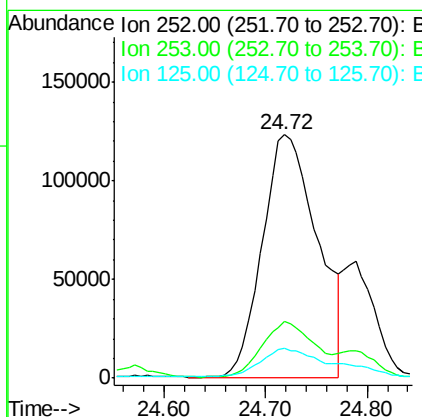
RT: 24.72 min Scan# 3545

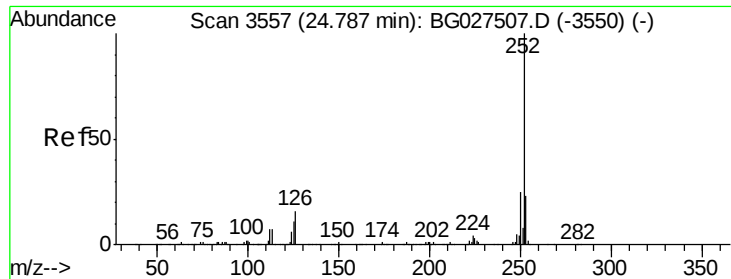
Delta R.T. 0.01 min

Lab File: BG027514.D

Acq: 17 Jun 2017 19:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 466888 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.1  | 17.7  | 26.5   |
| 125       | 12.0  | 4.0   | 6.0#   |





#86

Benzo(k)fluoranthene

Concen: 6.938 ng/ul m

RT: 24.79 min Scan# 3557

Delta R.T. 0.00 min

Lab File: BG027514.D

Acq: 17 Jun 2017 19:49

Instrument :

BNA\_G

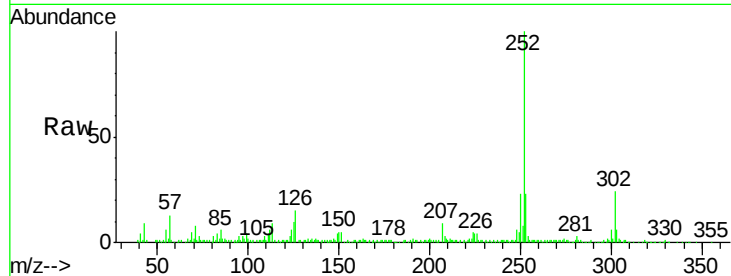
ClientSampleId :

F5C91

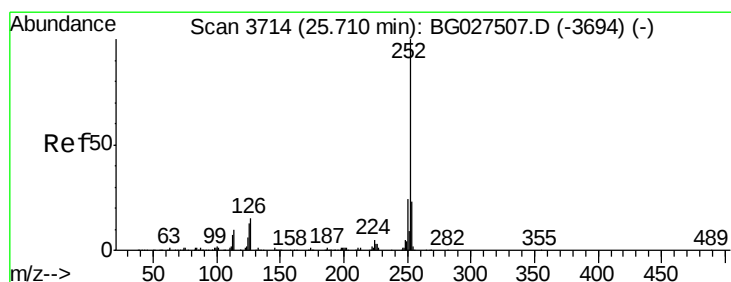
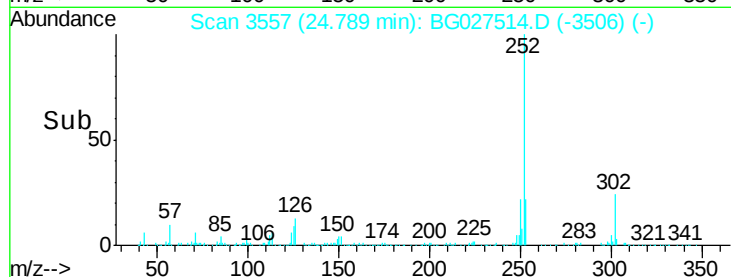
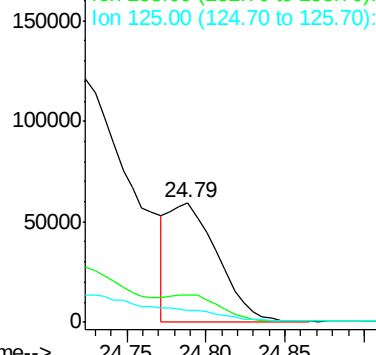
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 130397 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 18.5  | 27.7   |
| 125       | 10.4  | 4.1   | 6.1#   |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(a)pyrene

Concen: 11.208 ng/ul

RT: 25.71 min Scan# 3714

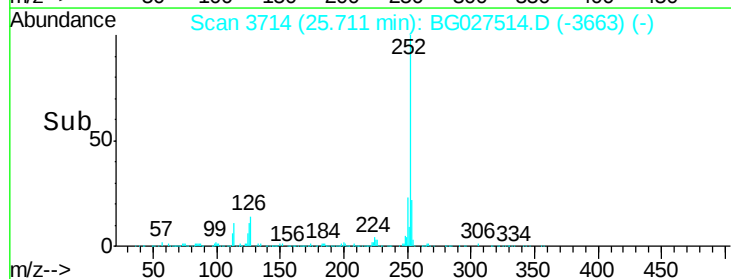
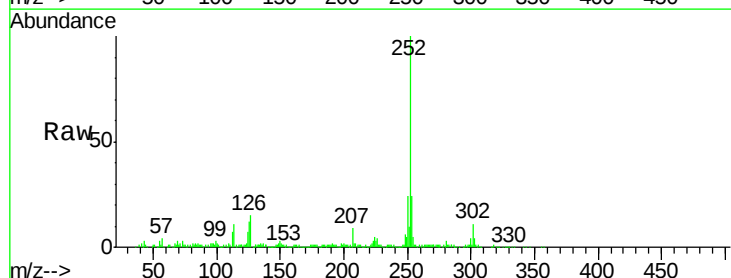
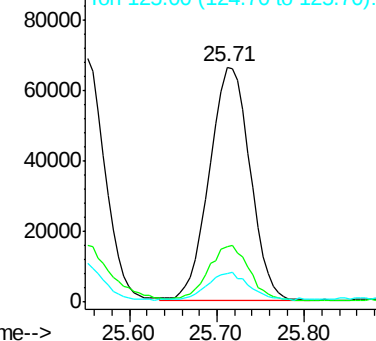
Delta R.T. 0.00 min

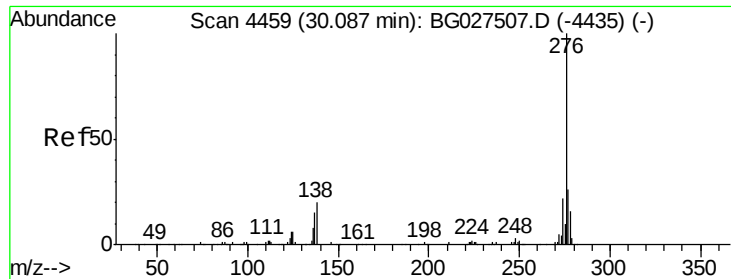
Lab File: BG027514.D

Acq: 17 Jun 2017 19:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 210423 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.7  | 17.8  | 26.6   |
| 125       | 12.1  | 5.4   | 8.0#   |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





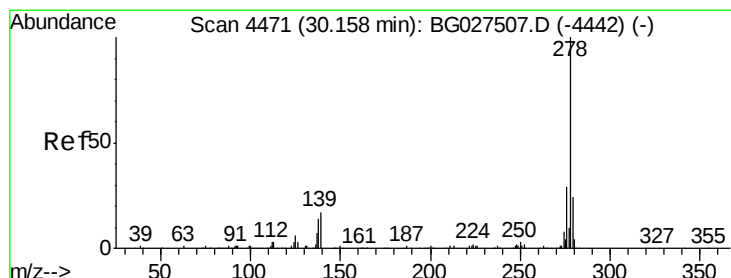
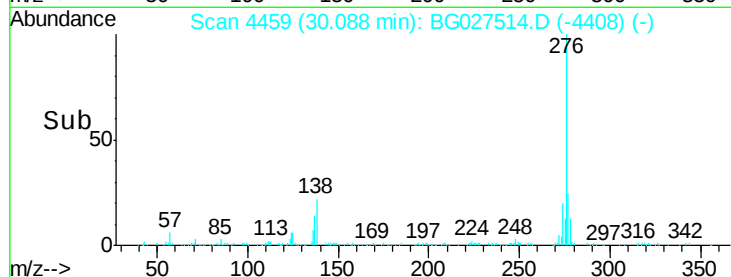
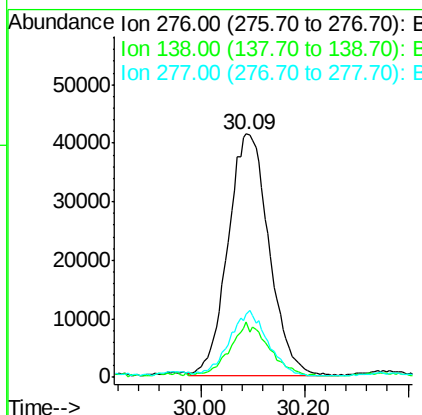
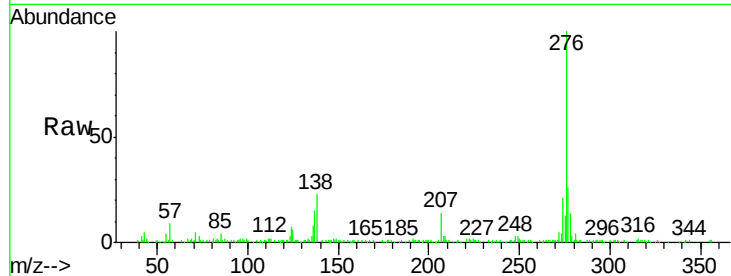
#89  
 Indeno(1,2,3-cd)pyrene  
 Concen: 10.608 ng/ul  
 RT: 30.09 min Scan# 4459  
 Delta R.T. 0.00 min  
 Lab File: BG027514.D  
 Acq: 17 Jun 2017 19:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 F5C91

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 227355 |       |       |
| 138     | 22.9  | 8.2    | 12.4# |       |
| 277     | 26.1  | 18.6   | 28.0  |       |

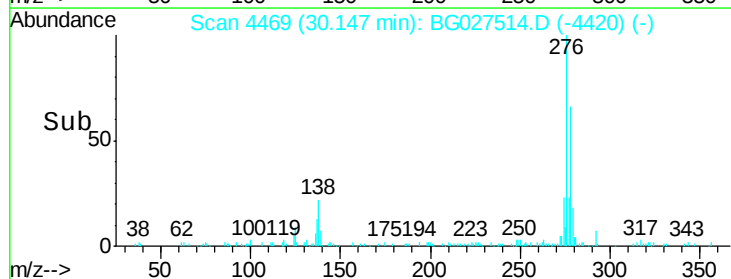
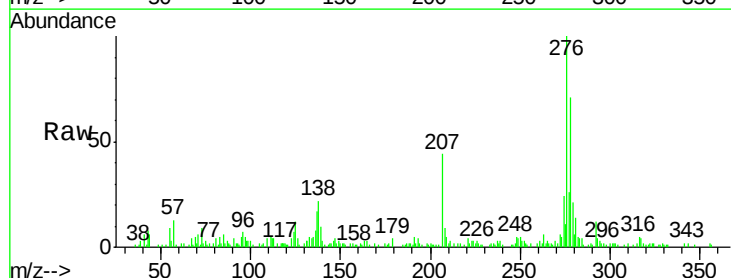
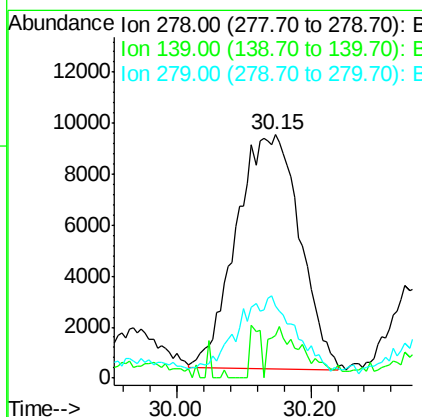
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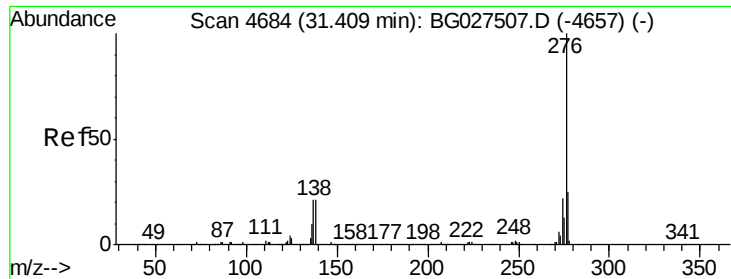
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#90  
 Dibenzo(a,h)anthracene  
 Concen: 3.285 ng/ul m  
 RT: 30.15 min Scan# 4469  
 Delta R.T. -0.01 min  
 Lab File: BG027514.D  
 Acq: 17 Jun 2017 19:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 60440 |       |       |
| 139     | 13.8  | 6.7   | 10.1# |       |
| 279     | 29.7  | 20.9  | 31.3  |       |





#91  
 Benzo(g,h,i)perylene  
 Concen: 7.800 ng/ul  
 RT: 31.40 min Scan# 4683  
 Delta R.T. -0.00 min  
 Lab File: BG027514.D  
 Acq: 17 Jun 2017 19:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 F5C91

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.5  | 8.6   | 12.8# |
| 277     | 22.4  | 17.6  | 26.4  |

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