

Data Path : U:\HPCHEM1\BNA G\DATA\BG082117\  
 Data File : BG028404.D  
 Acq On : 22 Aug 2017 1:18  
 Operator : SJ/JU  
 Sample : I4714-01  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E7GD3

Manual Integrations  
 APPROVED

Sohil  
 8/22/2017 5:50:21 PM

Quant Time: Aug 22 14:38:43 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 22 04:33:26 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.34  | 152  | 44716    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.16 | 136  | 184819   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.95 | 164  | 135906   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.70 | 188  | 323183   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.03 | 240  | 376643   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.54 | 264  | 367372   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.83  | 96  | 2949   | 3.07  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.50  | 99  | 66091  | 13.46 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.66  | 67  | 39240  | 12.62 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.88  | 132 | 48822  | 15.76 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.04  | 113 | 57255  | 13.95 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.51  | 128 | 24728  | 17.11 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.24 | 143 | 29506  | 18.62 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.78 | 165 | 57840  | 17.64 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.29 | 131 | 54979  | 15.07 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.34 | 166 | 201281 | 16.65 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.65 | 160 | 230279 | 16.90 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.17 | 143 | 14489  | 7.54  | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.94 | 176 | 174412 | 16.08 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.06 | 200 | 18357  | 8.74  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.80 | 188 | 288624 | 18.62 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.08 | 212 | 337148 | 17.46 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.30 | 264 | 313640 | 18.24 | ng/ul | 0.01 |

## Target Compounds

|                            |       |     |         |         | Ovalue |    |
|----------------------------|-------|-----|---------|---------|--------|----|
| 6) Phenol                  | 7.53  | 94  | 4987    | 1.022   | ng/ul# | 84 |
| 44) Dimethylphthalate      | 14.38 | 163 | 59884   | 5.380   | ng/ul  | 99 |
| 49) Acenaphthene           | 15.01 | 153 | 15313   | 1.743   | ng/ul  | 88 |
| 53) Dibenzofuran           | 15.35 | 168 | 14264   | 1.113   | ng/ul  | 92 |
| 58) Fluorene               | 15.99 | 166 | 23233   | 2.048   | ng/ul  | 95 |
| 69) Phenanthrene           | 17.75 | 178 | 896651  | 55.130  | ng/ul  | 97 |
| 71) Anthracene             | 17.83 | 178 | 67250m  | 4.046   | ng/ul  |    |
| 72) Carbazole              | 18.10 | 167 | 130079  | 8.998   | ng/ul  | 98 |
| 74) Fluoranthene           | 19.75 | 202 | 2349757 | 118.878 | ng/ul  | 99 |
| 77) Pyrene                 | 20.11 | 202 | 1858414 | 82.703  | ng/ul  | 99 |
| 80) Benzo(a)anthracene     | 22.01 | 228 | 875886  | 40.248  | ng/ul  | 99 |
| 82) Chrysene               | 22.09 | 228 | 1131944 | 57.754  | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene   | 24.43 | 252 | 1584845 | 72.091  | ng/ul# | 98 |
| 86) Benzo(k)fluoranthene   | 24.49 | 252 | 519935m | 24.212  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 25.38 | 252 | 923733  | 43.397  | ng/ul  | 98 |
| 89) Indeno(1,2,3-cd)pyrene | 29.57 | 276 | 783041  | 31.414  | ng/ul  | 98 |
| 90) Dibenzo(a,h)anthracene | 29.60 | 278 | 181263m | 8.676   | ng/ul  |    |
| 91) Benzo(g,h,i)perylene   | 30.84 | 276 | 617948  | 30.135  | ng/ul  | 94 |

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

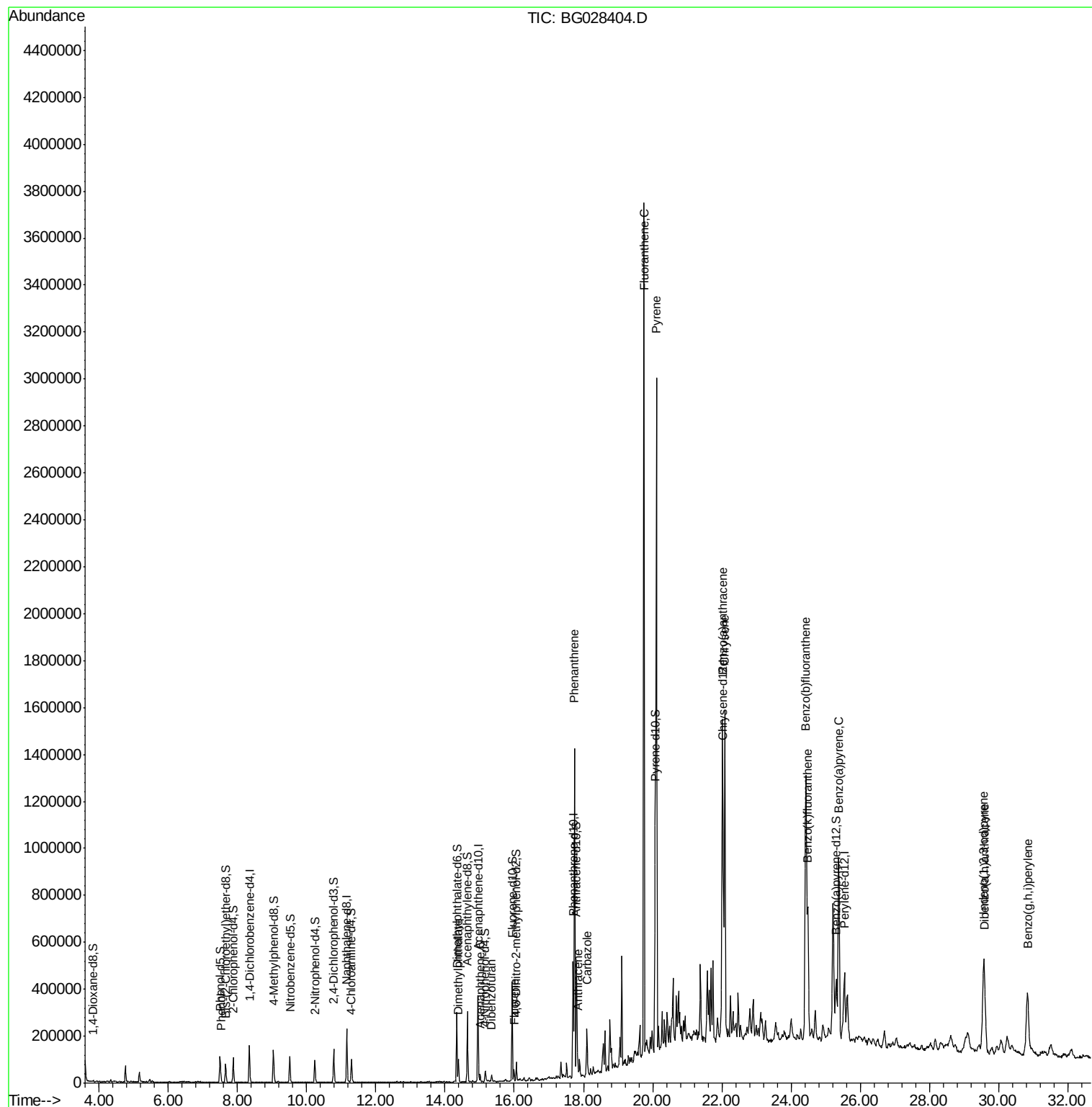
Data Path : U:\HPCHEM1\BNA G\DATA\BG082117\  
Data File : BG028404.D  
Acq On : 22 Aug 2017 1:18  
Operator : SJ/JU  
Sample : I4714-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

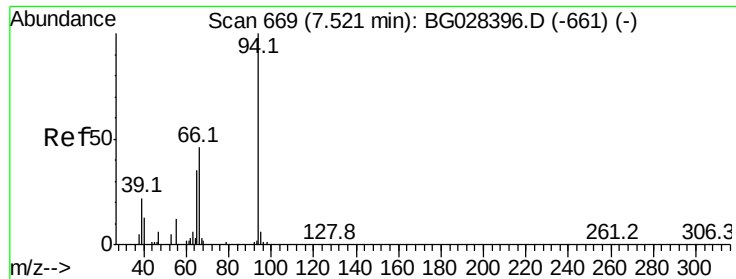
Instrument :  
BNA\_G  
ClientSampleId :  
E7GD3

Quant Time: Aug 22 14:38:43 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 22 04:33:26 2017  
Response via : Initial Calibration

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#6

Phenol

Concen: 1.022 ng/ul

RT: 7.53 min Scan# 670

Delta R.T. 0.01 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

Instrument :

BNA\_G

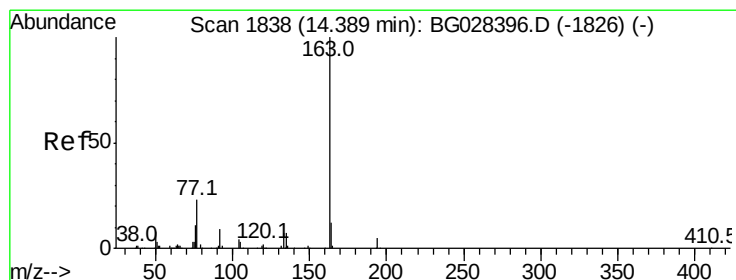
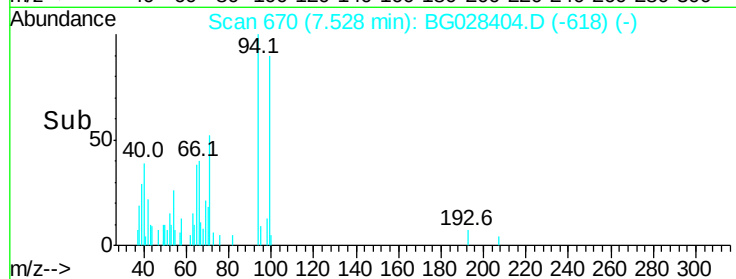
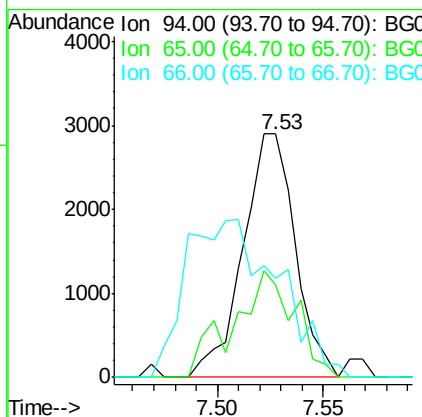
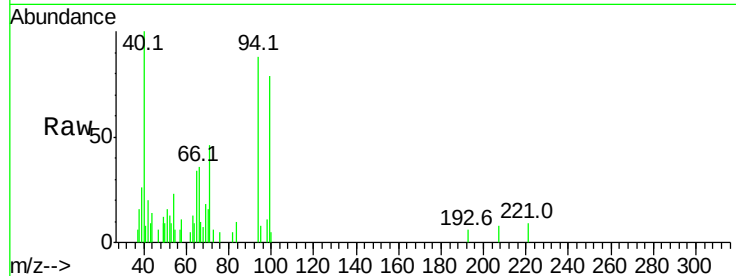
ClientSampleId :

E7GD3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 4987  |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 38.3  | 26.8  | 40.2  |
| 66        | 40.4  | 44.4  | 66.6# |

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#44

Dimethylphthalate

Concen: 5.380 ng/ul

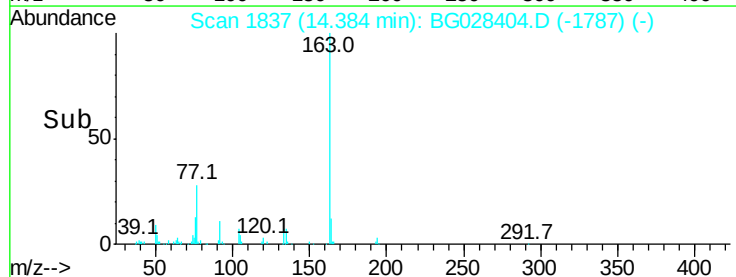
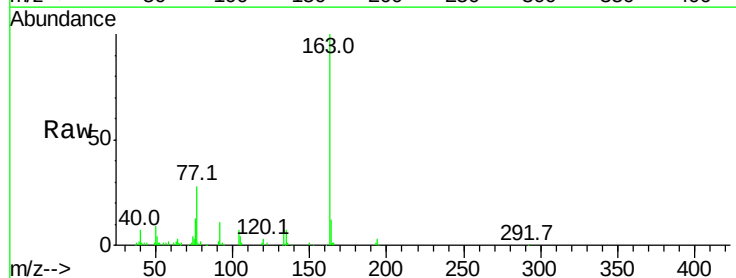
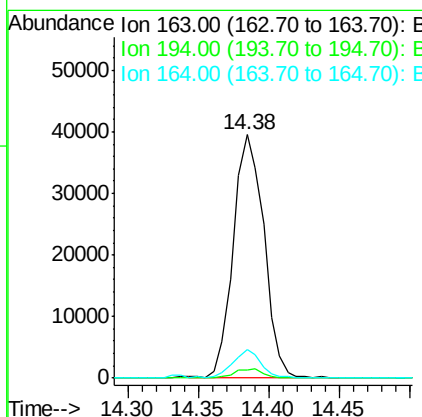
RT: 14.38 min Scan# 1837

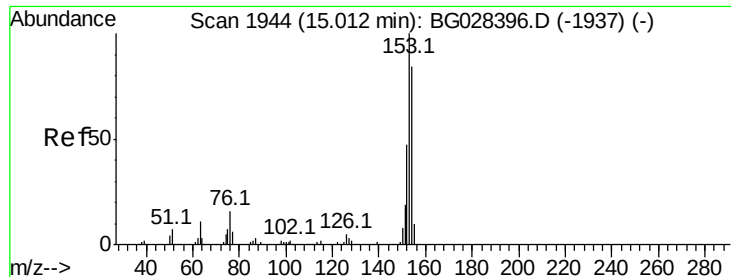
Delta R.T. -0.00 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 59884 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.5   | 3.4   | 5.0   |
| 164       | 11.6  | 9.0   | 13.4  |





#49

Acenaphthene

Concen: 1.743 ng/ul

RT: 15.01 min Scan# 1944

Delta R.T. 0.00 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

Instrument :

BNA\_G

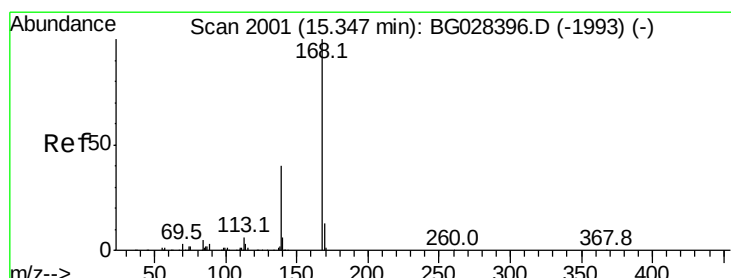
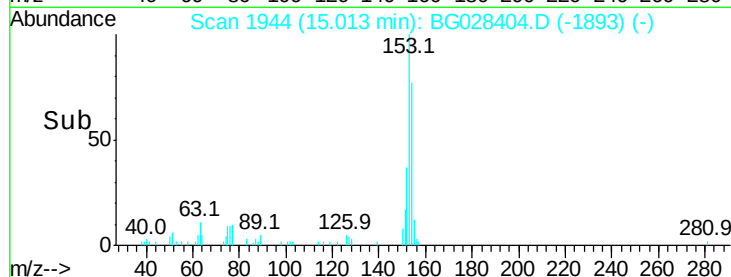
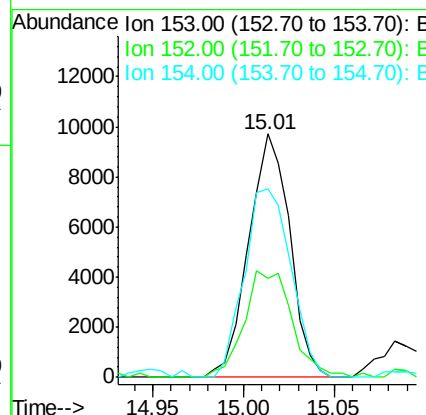
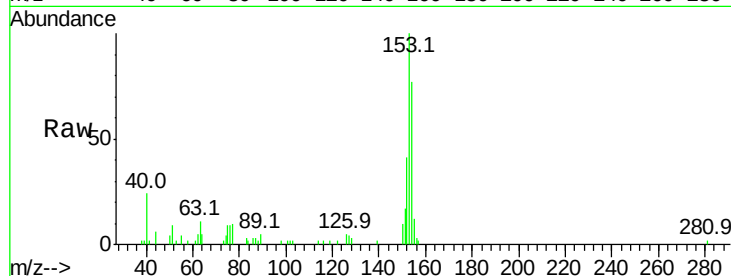
ClientSampleId :

E7GD3

|             |       |            |
|-------------|-------|------------|
| Tot Ion:153 | Resp: | 15313      |
| Ion Ratio   | Lower | Upper      |
| 153         | 100   |            |
| 152         | 40.6  | 36.5 54.7  |
| 154         | 77.3  | 72.3 108.5 |

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#53

Dibenzofuran

Concen: 1.113 ng/ul

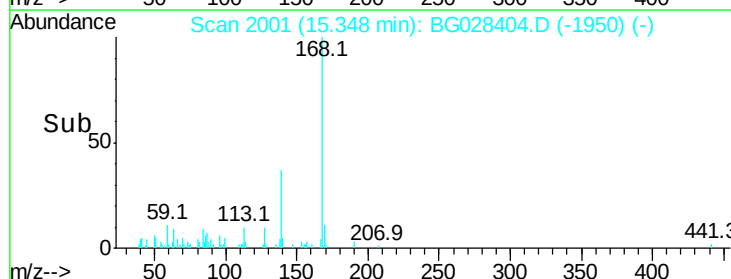
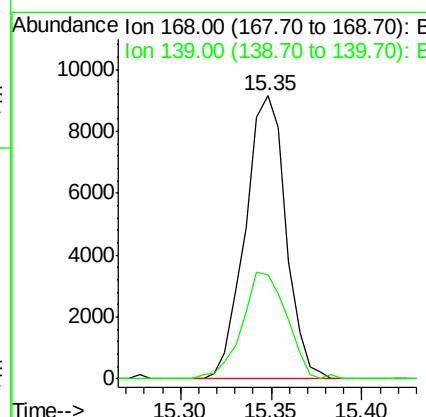
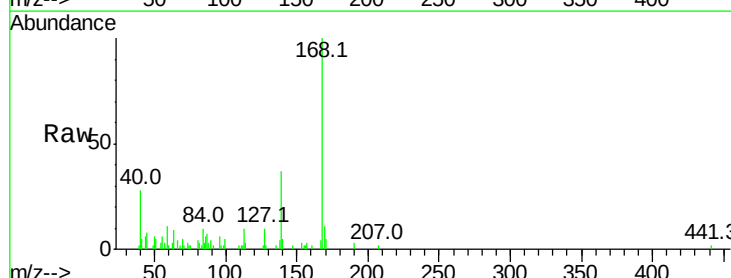
RT: 15.35 min Scan# 2001

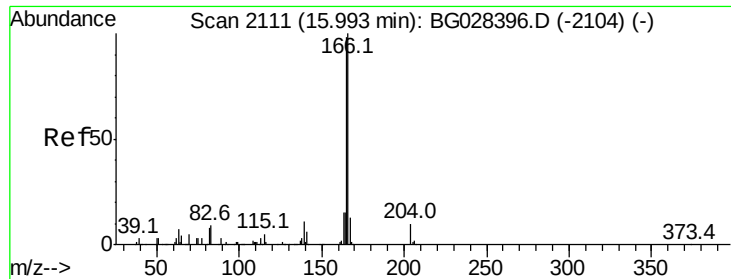
Delta R.T. 0.00 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:168 | Resp: | 14264     |
| Ion Ratio   | Lower | Upper     |
| 168         | 100   |           |
| 139         | 37.0  | 33.8 50.8 |





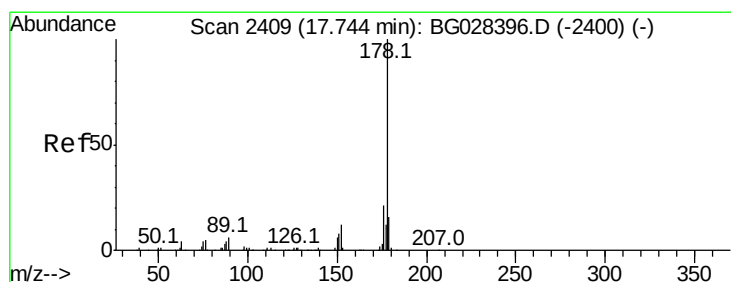
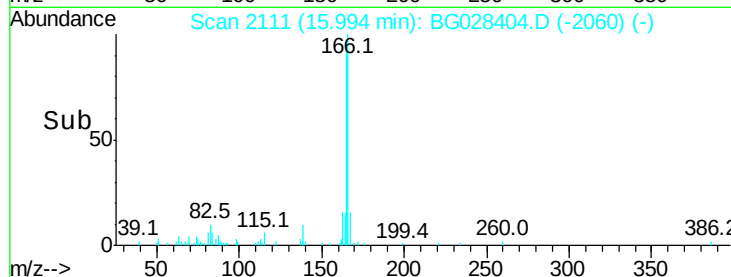
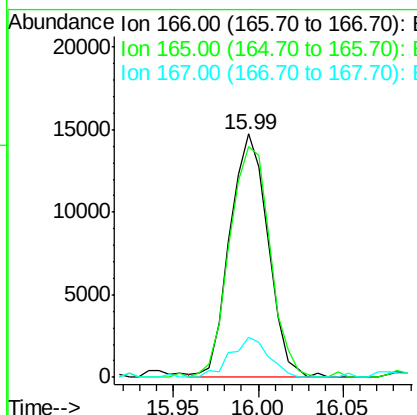
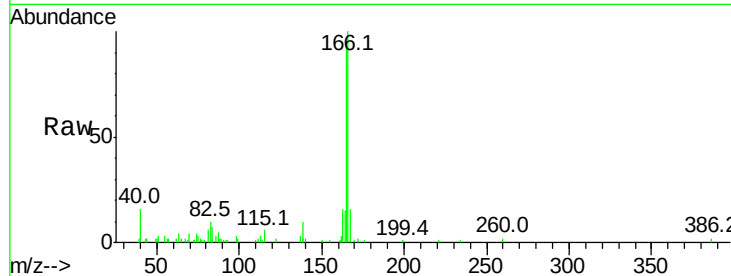
#58  
 Fluorene  
 Concen: 2.048 ng/ul  
 RT: 15.99 min Scan# 2111  
 Delta R.T. 0.00 min  
 Lab File: BG028404.D  
 Acq: 22 Aug 2017 1:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E7GD3

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   |      |       |       |
| 165     | 94.7  | 79.7 | 119.5 |       |
| 167     | 16.3  | 11.4 | 17.2  |       |

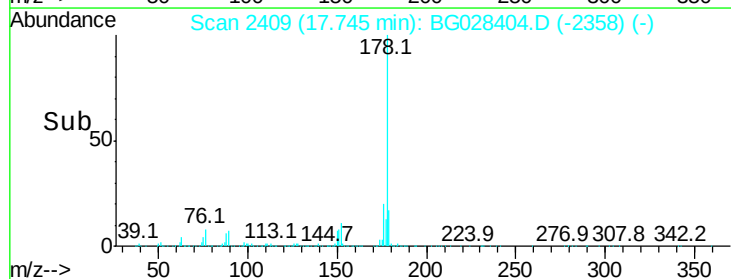
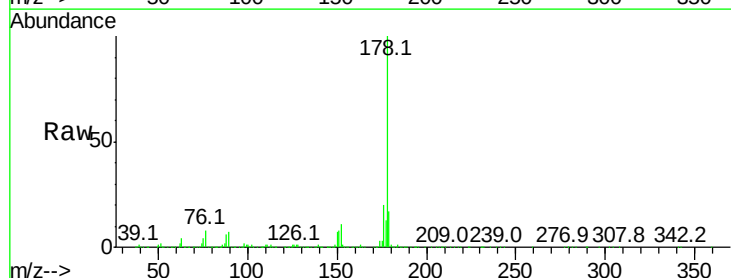
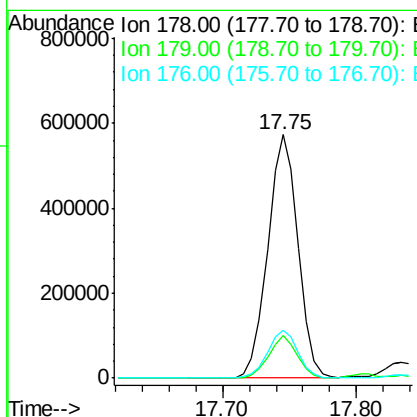
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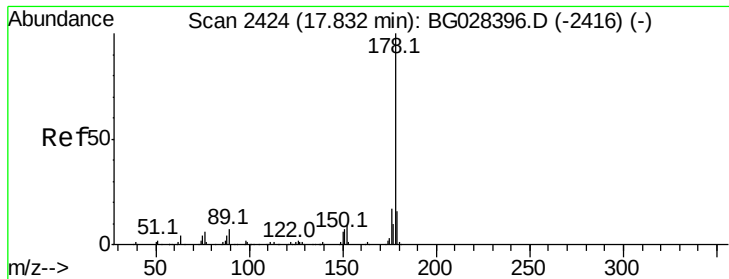
Sohil  
 8/22/2017 5:50:21 PM



#69  
 Phenanthrene  
 Concen: 55.130 ng/ul  
 RT: 17.75 min Scan# 2409  
 Delta R.T. 0.00 min  
 Lab File: BG028404.D  
 Acq: 22 Aug 2017 1:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   |      |       |       |
| 179     | 17.3  | 12.4 | 18.6  |       |
| 176     | 19.8  | 16.5 | 24.7  |       |





#71

Anthracene

Concen: 4.046 ng/ul

RT: 17.83 min Scan# 2424

Delta R.T. 0.00 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

Instrument :

BNA\_G

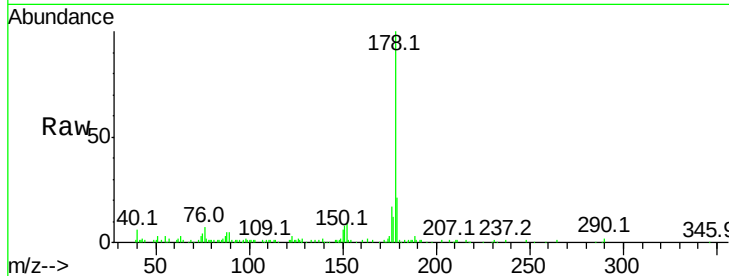
ClientSampled :

E7GD3

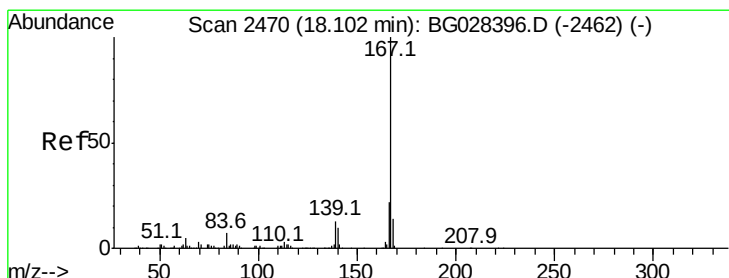
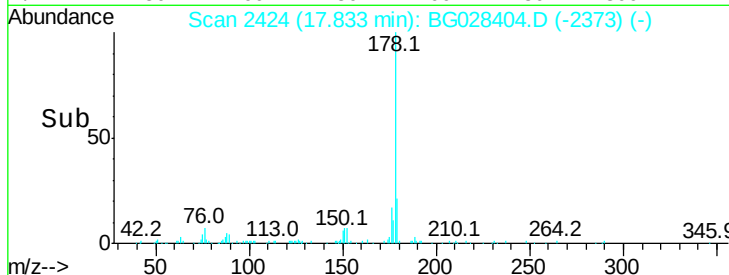
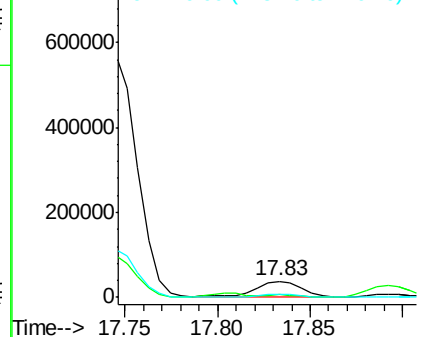
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 67250 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 20.5  | 12.6  | 19.0# |
| 176       | 17.3  | 15.9  | 23.9  |

Manual Integrations  
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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



#72

Carbazole

Concen: 8.998 ng/ul

RT: 18.10 min Scan# 2470

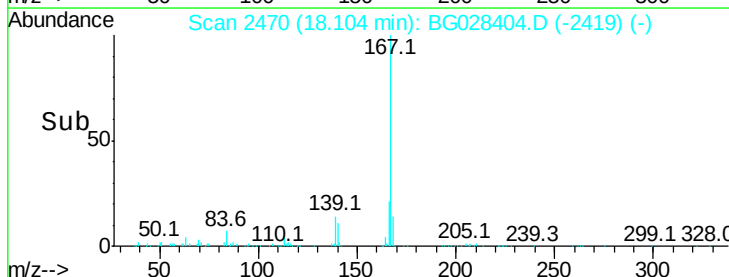
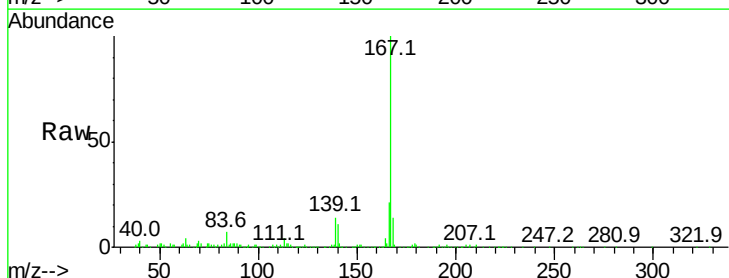
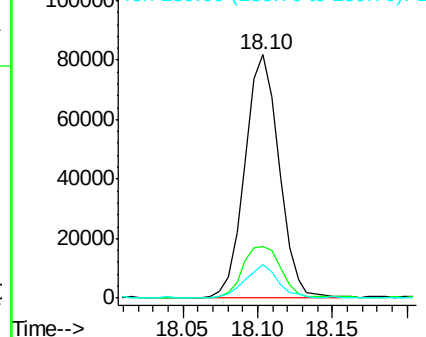
Delta R.T. 0.00 min

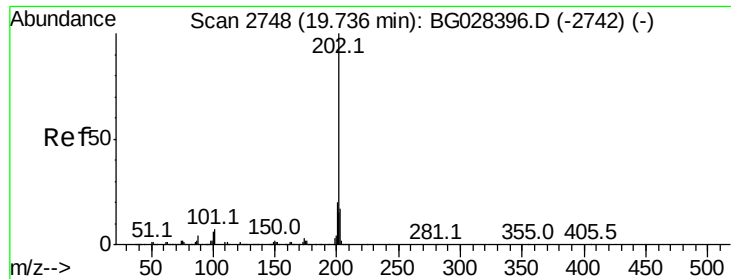
Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 130079 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.4  | 17.9  | 26.9   |
| 139       | 13.8  | 10.5  | 15.7   |

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





#74

Fluoranthene

Concen: 118.878 ng/ul

RT: 19.75 min Scan# 2750

Delta R.T. 0.01 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

Instrument :

BNA\_G

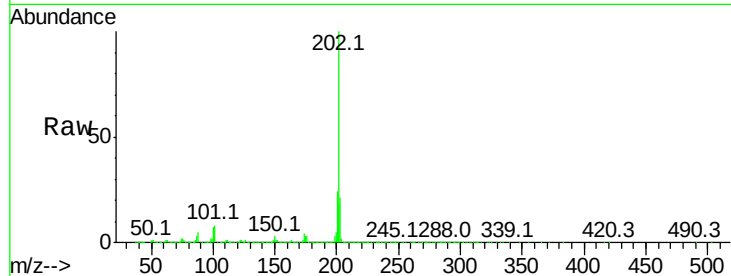
ClientSampleId :

E7GD3

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 2349757 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 8.5   | 6.2   | 9.2     |
| 100      | 6.7   | 5.2   | 7.8     |

Manual Integrations  
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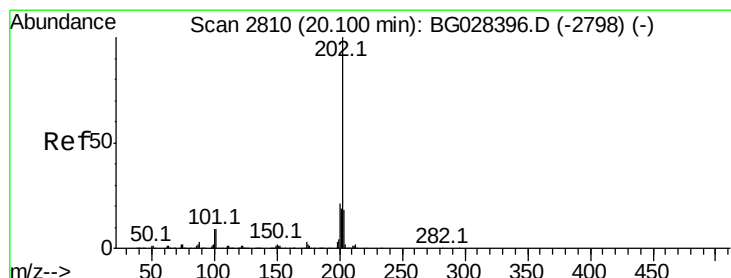
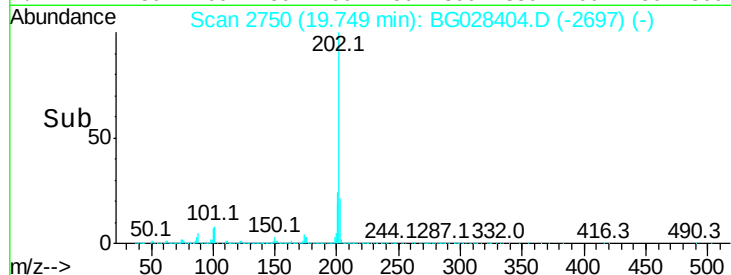
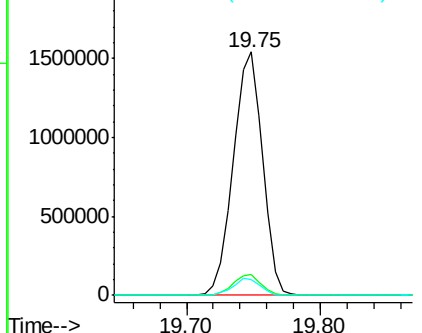
Sohil  
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 82.703 ng/ul

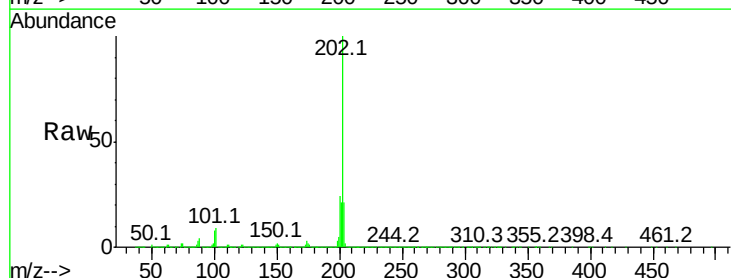
RT: 20.11 min Scan# 2811

Delta R.T. 0.01 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

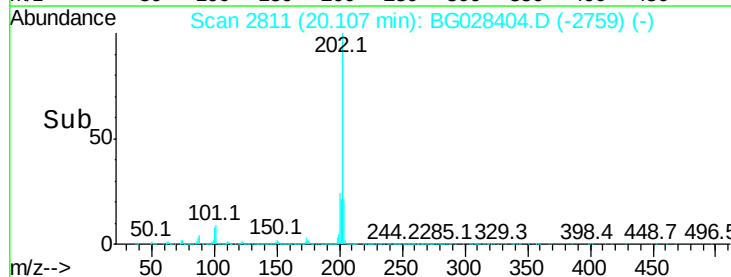
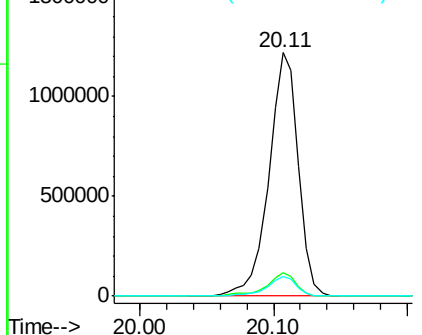
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 1858414 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 9.5   | 6.9   | 10.3    |
| 100      | 8.3   | 6.6   | 10.0    |

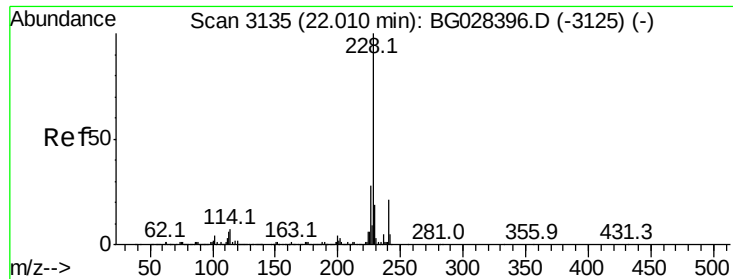


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





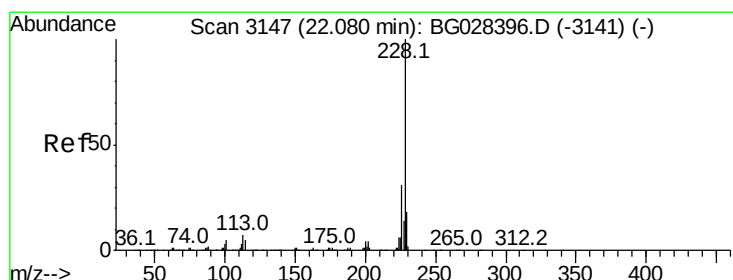
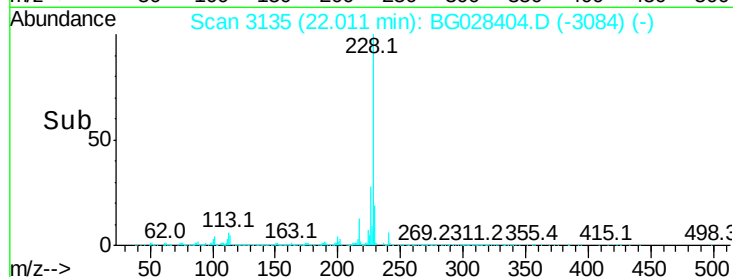
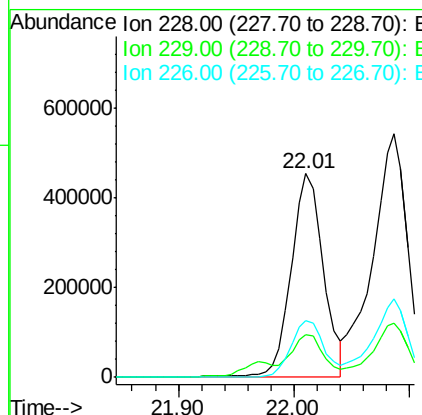
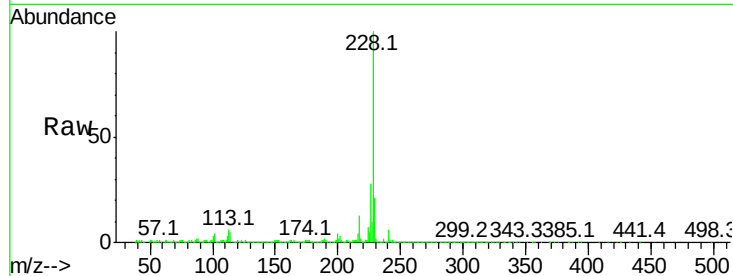
#80  
Benzo(a)anthracene  
Concen: 40.248 ng/ul  
RT: 22.01 min Scan# 3135  
Delta R.T. 0.00 min  
Lab File: BG028404.D  
Acq: 22 Aug 2017 1:18

Instrument :  
BNA\_G  
ClientSampleId :  
E7GD3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.8  | 16.3  | 24.5  |
| 226     | 28.0  | 21.9  | 32.9  |

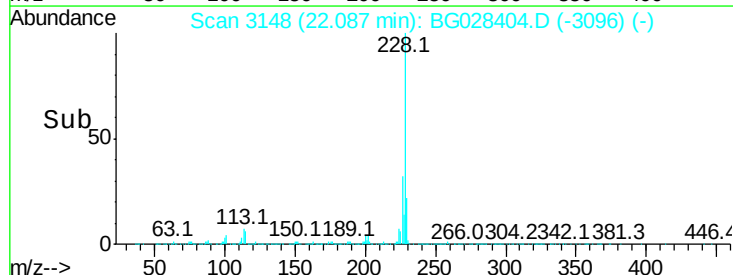
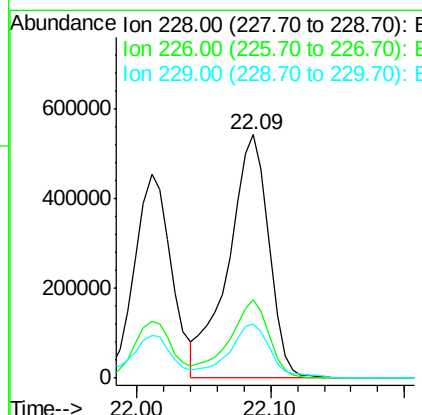
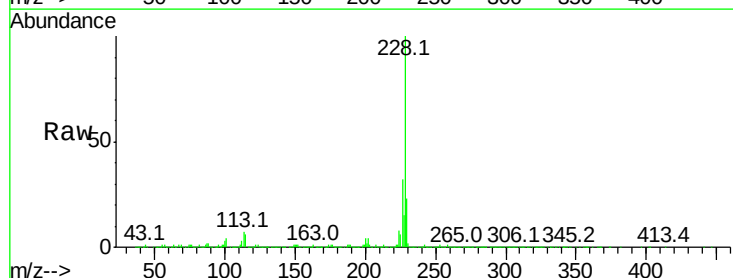
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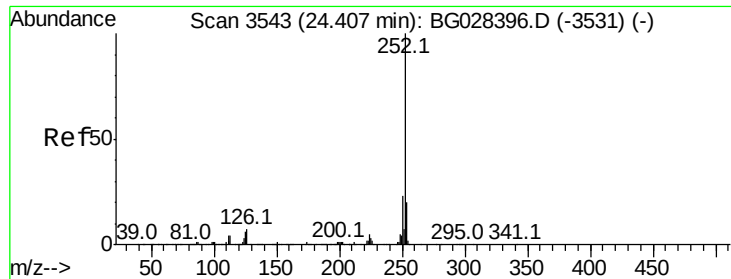


#82  
Chrysene  
Concen: 57.754 ng/ul  
RT: 22.09 min Scan# 3148  
Delta R.T. 0.01 min  
Lab File: BG028404.D  
Acq: 22 Aug 2017 1:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.2  | 24.0  | 36.0  |
| 229     | 22.5  | 16.9  | 25.3  |







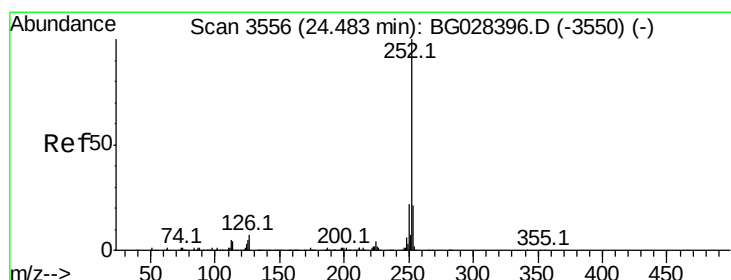
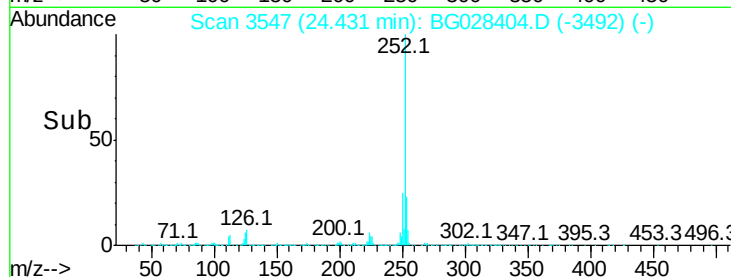
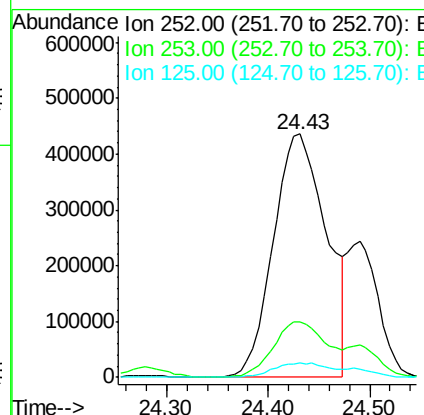
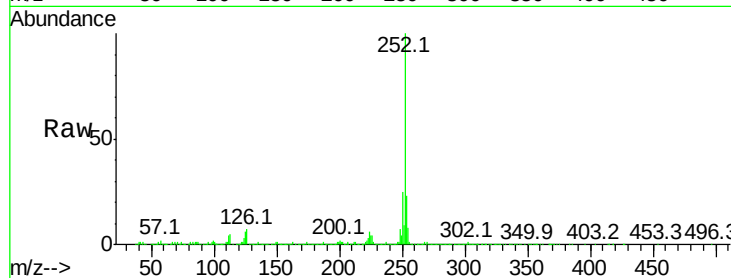
#85  
Benzo(b)fluoranthene  
Concen: 72.091 ng/ul  
RT: 24.43 min Scan# 3547  
Delta R.T. 0.02 min  
Lab File: BG028404.D  
Acq: 22 Aug 2017 1:18

Instrument :  
BNA\_G  
ClientSampled :  
E7GD3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.7  | 26.5  |
| 125     | 6.0   | 4.0   | 6.0#  |

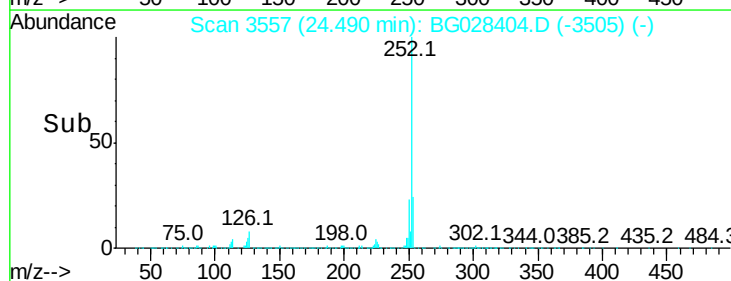
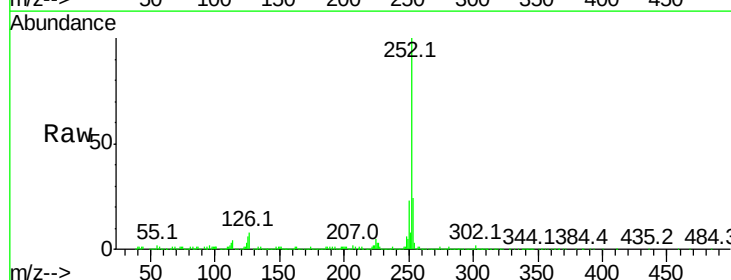
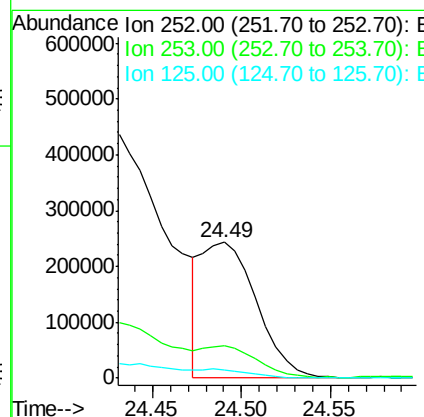
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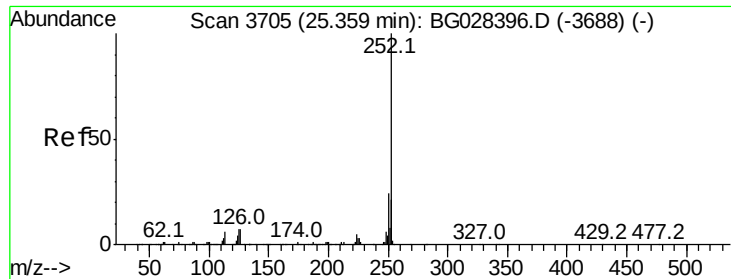
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#86  
Benzo(k)fluoranthene  
Concen: 24.212 ng/ul m  
RT: 24.49 min Scan# 3557  
Delta R.T. 0.01 min  
Lab File: BG028404.D  
Acq: 22 Aug 2017 1:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.5  | 27.7  |
| 125     | 5.6   | 4.1   | 6.1   |





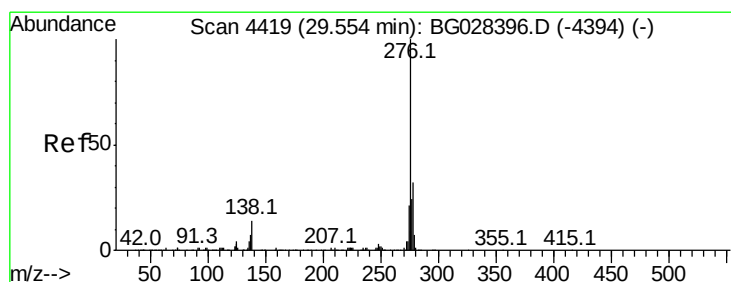
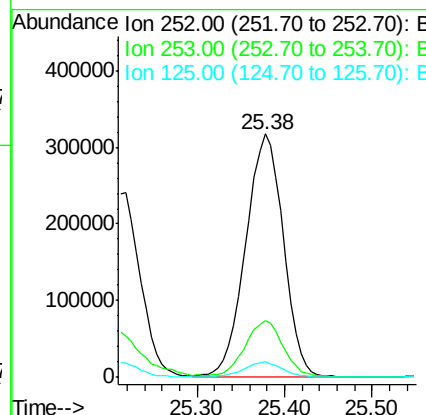
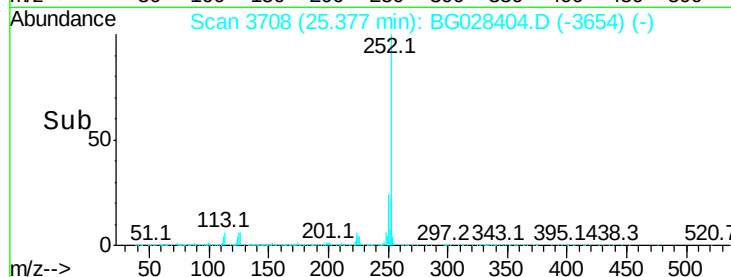
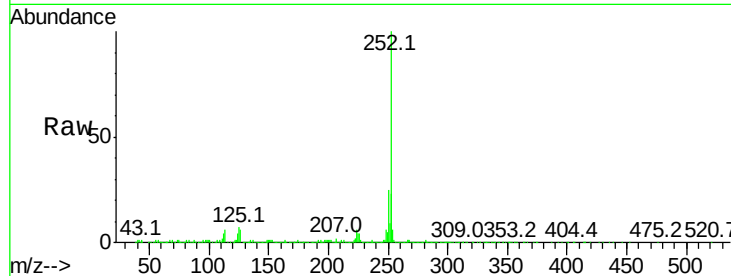
#88  
Benzo(a)pyrene  
Concen: 43.397 ng/ul  
RT: 25.38 min Scan# 3708  
Delta R.T. 0.02 min  
Lab File: BG028404.D  
Acq: 22 Aug 2017 1:18

Instrument :  
BNA\_G  
ClientSampleId :  
E7GD3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.6  |
| 125     | 6.5   | 5.4   | 8.0   |

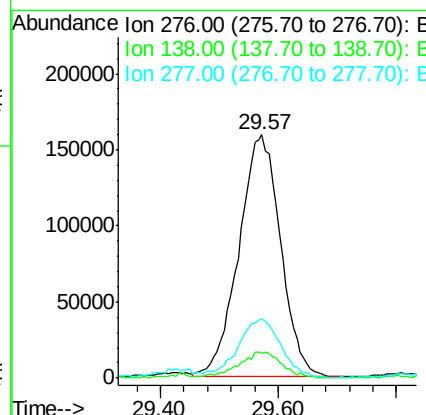
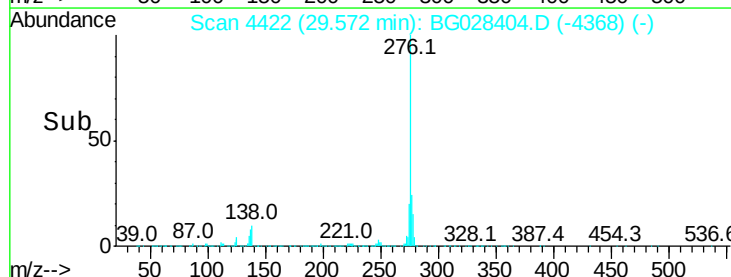
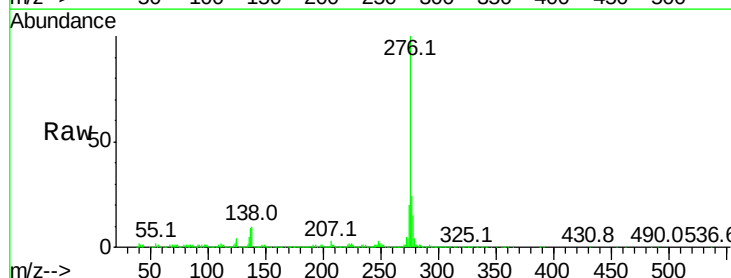
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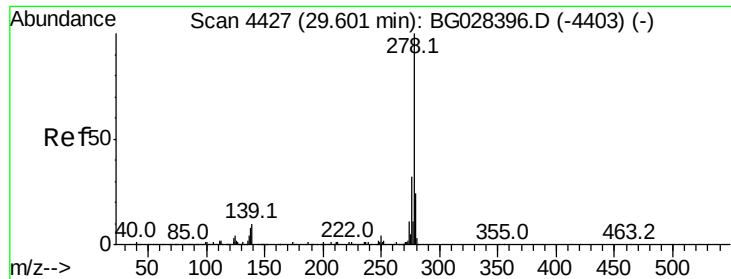
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#89  
Indeno(1,2,3-cd)pyrene  
Concen: 31.414 ng/ul  
RT: 29.57 min Scan# 4422  
Delta R.T. 0.02 min  
Lab File: BG028404.D  
Acq: 22 Aug 2017 1:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 10.3  | 8.2   | 12.4  |
| 277     | 24.5  | 18.6  | 28.0  |





#90

Dibenzo(a,h)anthracene

Concen: 8.676 ng/ul m

RT: 29.60 min Scan# 4426

Delta R.T. -0.00 min

Lab File: BG028404.D

Acq: 22 Aug 2017 1:18

Instrument :

BNA\_G

ClientSampled :

E7GD3

Tot Ion:278 Resp: 181263  
Ion Ratio Lower Upper

278 100

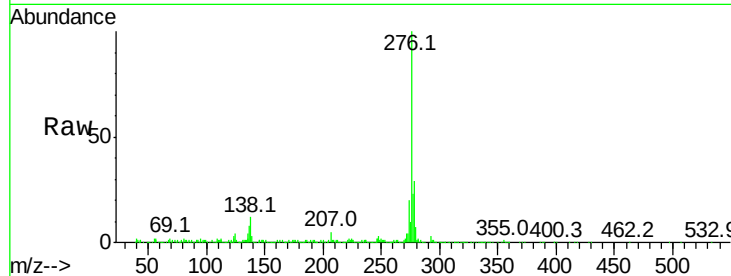
139 11.3 6.7 10.1#

279 24.9 20.9 31.3

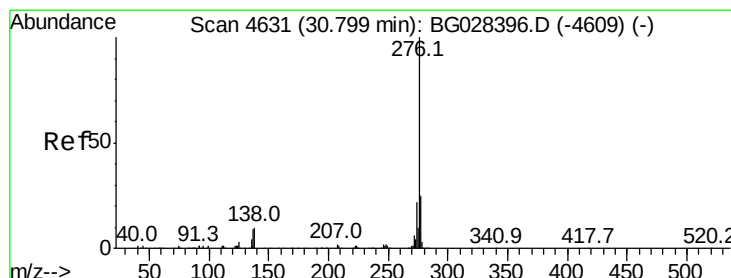
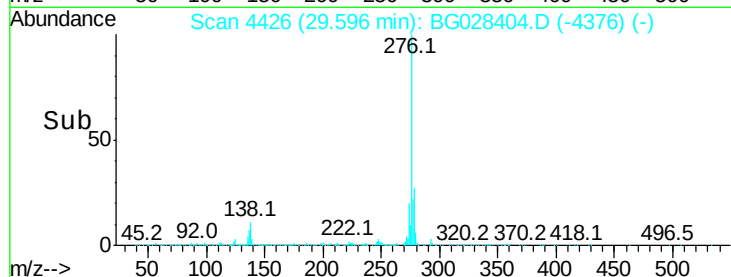
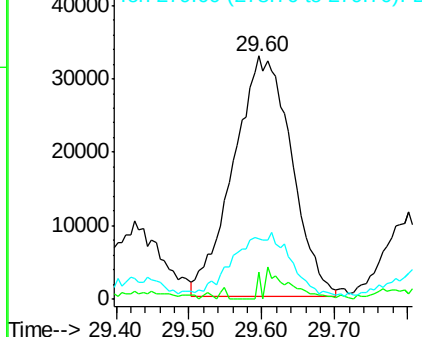
Manual Integrations  
APPROVED

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Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 30.135 ng/ul

RT: 30.84 min Scan# 4637

Delta R.T. 0.04 min

Lab File: BG028404.D

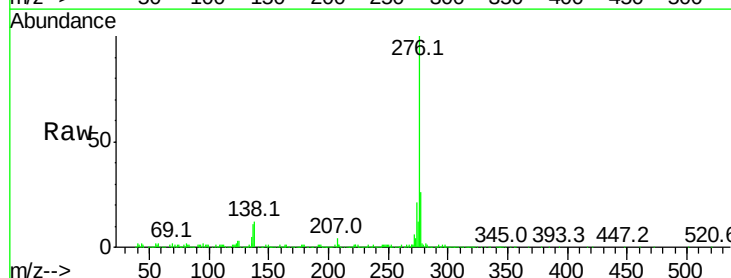
Acq: 22 Aug 2017 1:18

Tgt Ion:276 Resp: 617948  
Ion Ratio Lower Upper

276 100

138 11.5 8.6 12.8

277 25.5 17.6 26.4



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

