

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG110517\  
 Data File : BG030758.D  
 Acq On : 6 Nov 2017 3:29  
 Operator : SJ/JU  
 Sample : I6126-03  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0ED5

Manual Integrations  
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Sohil  
 11/6/2017 2:19:45 PM

Quant Time: Nov 06 05:59:25 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 01:27:00 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 86681    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.97 | 136  | 395519   | 20.00 | ng/ul | 0.01     |
| 35) Acenaphthene-d10      | 14.77 | 164  | 251231   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.52 | 188  | 583152   | 20.00 | ng/ul | 0.01     |
| 75) Chrysene-d12          | 21.80 | 240  | 615388   | 20.00 | ng/ul | 0.02     |
| 83) Perylene-d12          | 25.12 | 264  | 665087m  | 20.00 | ng/ul | 0.05     |

## System Monitoring Compounds

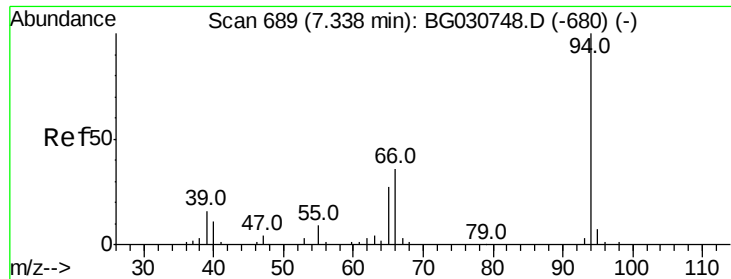
|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.53  | 96  | 4561   | 2.14  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.32  | 99  | 107962 | 12.98 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.47  | 67  | 63279  | 12.15 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.69  | 132 | 90747  | 15.46 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.86  | 113 | 87161  | 12.97 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 9.32  | 128 | 45791  | 16.13 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.04 | 143 | 51524  | 17.71 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.59 | 165 | 97340  | 14.68 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.11 | 131 | 38846  | 5.04  | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 14.17 | 166 | 323801 | 15.08 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.47 | 160 | 406553 | 15.56 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.98 | 143 | 38654  | 9.75  | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.76 | 176 | 305771 | 17.38 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.89 | 200 | 10146  | 3.56  | ng/ul | 0.02 |
| 70) Anthracene-d10             | 17.61 | 188 | 474502 | 17.20 | ng/ul | 0.01 |
| 76) Pyrene-d10                 | 19.89 | 212 | 521453 | 16.37 | ng/ul | 0.02 |
| 87) Benzo(a)pyrene-d12         | 24.89 | 264 | 511014 | 16.22 | ng/ul | 0.04 |

## Target Compounds

|                            |       |     |          |        | Ovalue |    |
|----------------------------|-------|-----|----------|--------|--------|----|
| 6) Phenol                  | 7.35  | 94  | 19929    | 2.315  | ng/ul  | 94 |
| 28) Naphthalene            | 11.03 | 128 | 56556    | 2.702  | ng/ul  | 98 |
| 34) 2-Methylnaphthalene    | 12.62 | 142 | 59283    | 3.422  | ng/ul  | 95 |
| 44) Dimethylphthalate      | 14.22 | 163 | 177820   | 8.488  | ng/ul  | 98 |
| 47) Acenaphthylene         | 14.50 | 152 | 385966   | 14.485 | ng/ul  | 95 |
| 49) Acenaphthene           | 14.84 | 153 | 29305    | 1.608  | ng/ul# | 93 |
| 58) Fluorene               | 15.82 | 166 | 133373   | 6.708  | ng/ul# | 98 |
| 69) Phenanthrene           | 17.56 | 178 | 1755153m | 55.676 | ng/ul  |    |
| 71) Anthracene             | 17.65 | 178 | 315311   | 9.694  | ng/ul  | 99 |
| 74) Fluoranthene           | 19.56 | 202 | 2203629  | 62.547 | ng/ul  | 96 |
| 77) Pyrene                 | 19.93 | 202 | 3259734  | 79.036 | ng/ul# | 89 |
| 80) Benzo(a)anthracene     | 21.78 | 228 | 1971634  | 51.123 | ng/ul# | 89 |
| 82) Chrysene               | 21.85 | 228 | 2155749  | 61.520 | ng/ul# | 89 |
| 85) Benzo(b)fluoranthene   | 24.07 | 252 | 1775235  | 44.462 | ng/ul  | 95 |
| 86) Benzo(k)fluoranthene   | 24.12 | 252 | 625740m  | 16.209 | ng/ul  |    |
| 88) Benzo(a)pyrene         | 24.97 | 252 | 1638231  | 42.151 | ng/ul  | 95 |
| 89) Indeno(1,2,3-cd)pyrene | 28.93 | 276 | 936466m  | 21.297 | ng/ul  |    |
| 90) Dibenzo(a,h)anthracene | 28.97 | 278 | 340290m  | 9.316  | ng/ul  |    |
| 91) Benzo(g,h,i)perylene   | 30.13 | 276 | 894014m  | 24.528 | ng/ul  |    |

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





#6

Phenol

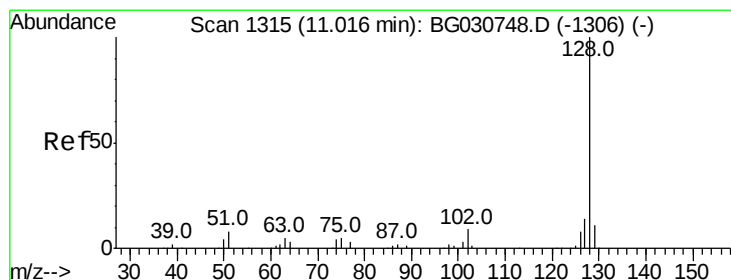
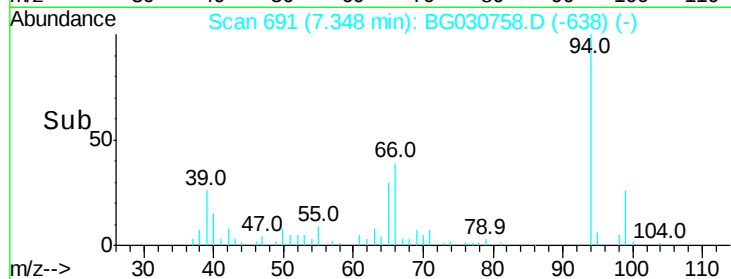
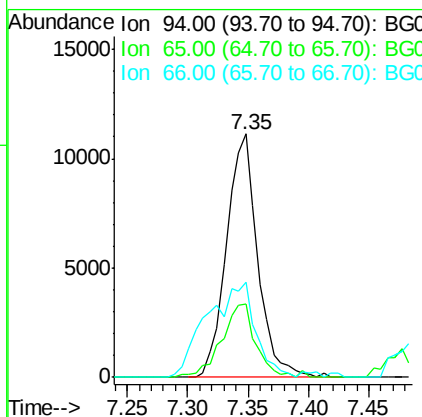
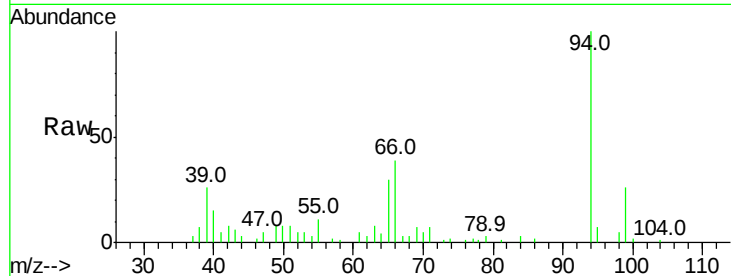
Concen: 2.315 ng/ul  
 RT: 7.35 min Scan# 691  
 Delta R.T. 0.01 min  
 Lab File: BG030758.D  
 Acq: 6 Nov 2017 3:29

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0ED5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 19929 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 30.3  | 27.1  | 40.7  |
| 66        | 39.0  | 34.6  | 52.0  |

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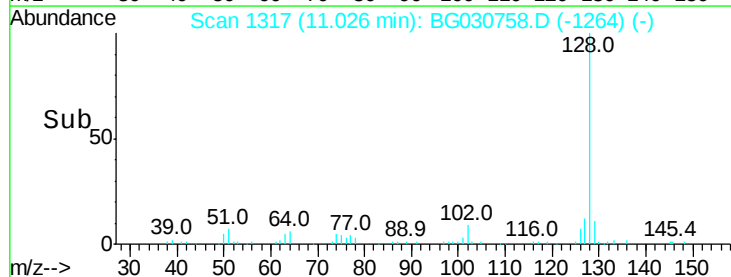
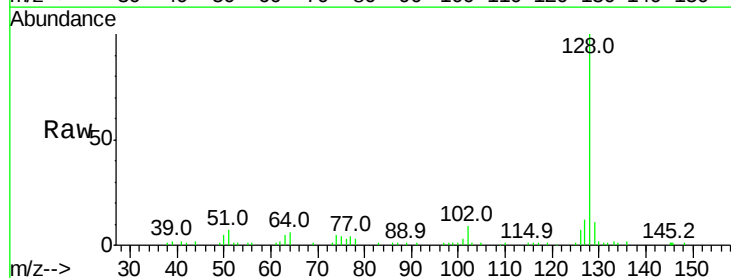
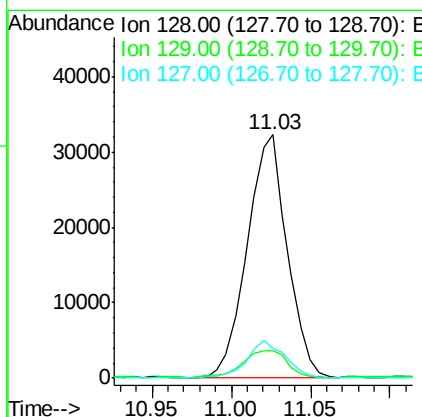


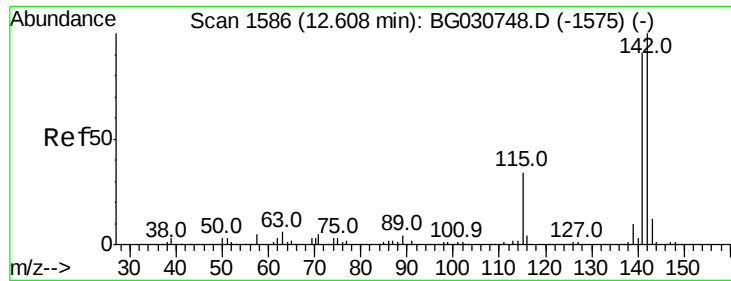
#28

Naphthalene

Concen: 2.702 ng/ul  
 RT: 11.03 min Scan# 1317  
 Delta R.T. 0.01 min  
 Lab File: BG030758.D  
 Acq: 6 Nov 2017 3:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 56556 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.3  | 9.3   | 13.9  |
| 127       | 12.3  | 10.7  | 16.1  |





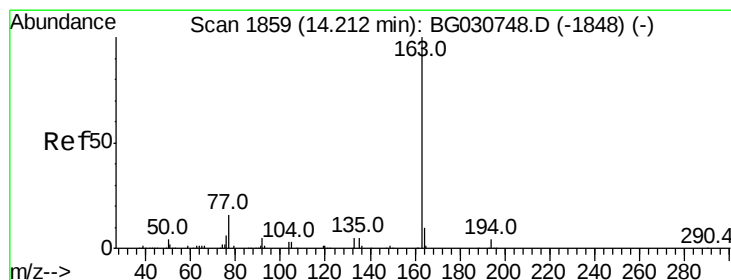
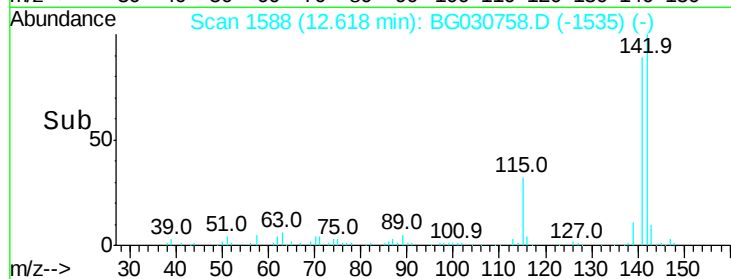
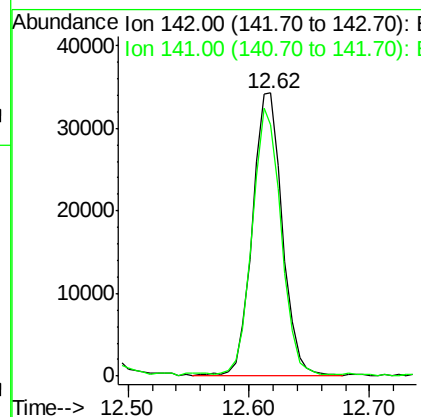
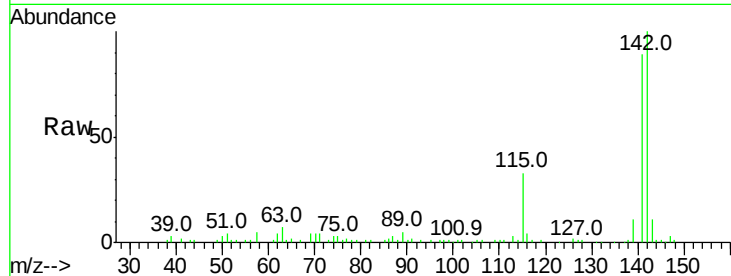
#34  
 2-Methylnaphthalene  
 Concen: 3.422 ng/ul  
 RT: 12.62 min Scan# 1588  
 Delta R.T. 0.01 min  
 Lab File: BG030758.D  
 Acq: 6 Nov 2017 3:29

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0ED5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 75.4  | 113.0 |

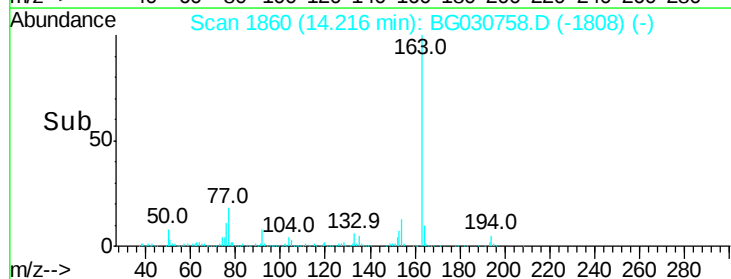
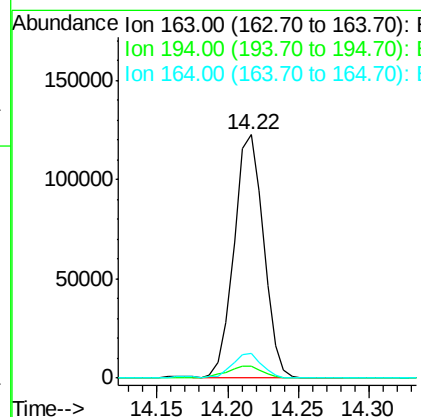
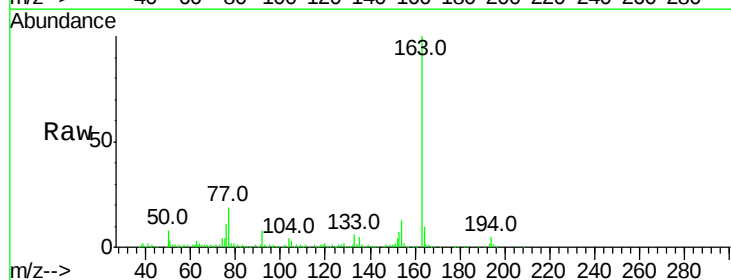
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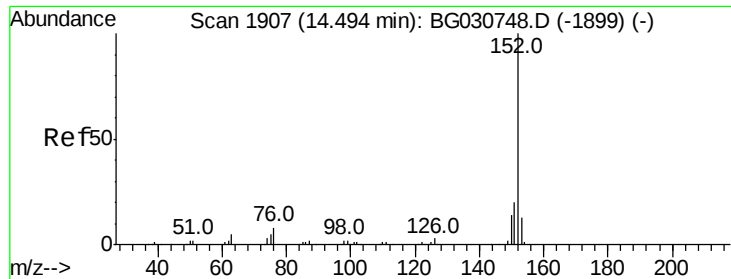
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#44  
 Dimethylphthalate  
 Concen: 8.488 ng/ul  
 RT: 14.22 min Scan# 1860  
 Delta R.T. 0.00 min  
 Lab File: BG030758.D  
 Acq: 6 Nov 2017 3:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.9   | 3.5   | 5.3   |
| 164     | 10.4  | 7.6   | 11.4  |





#47

Acenaphthylene

Concen: 14.485 ng/ul

RT: 14.50 min Scan# 1909

Delta R.T. 0.01 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

Instrument :

BNA\_G

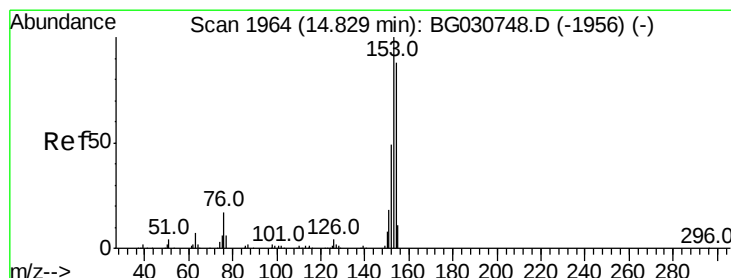
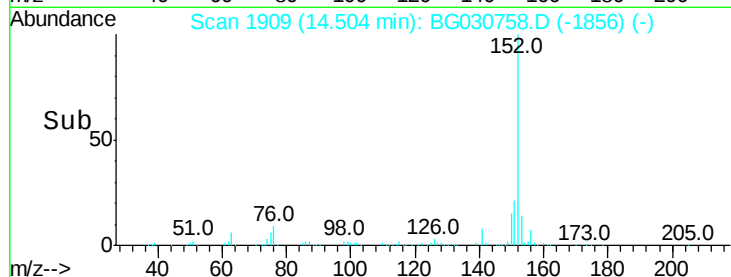
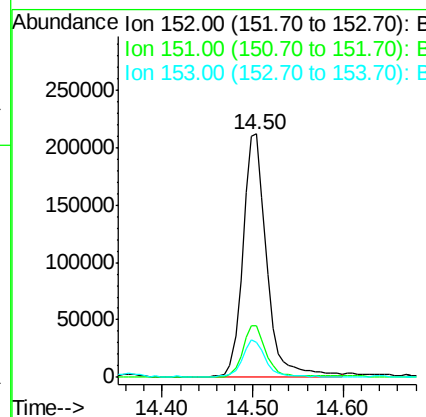
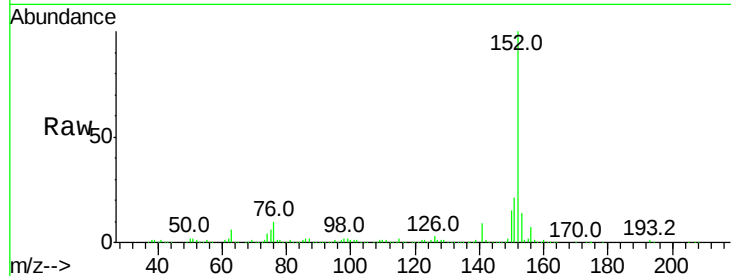
ClientSampled :

B0ED5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 385966 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 21.4  | 15.2  | 22.8   |
| 153       | 14.2  | 10.2  | 15.4   |

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#49

Acenaphthene

Concen: 1.608 ng/ul

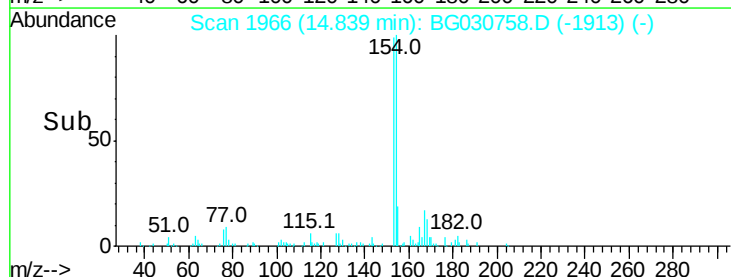
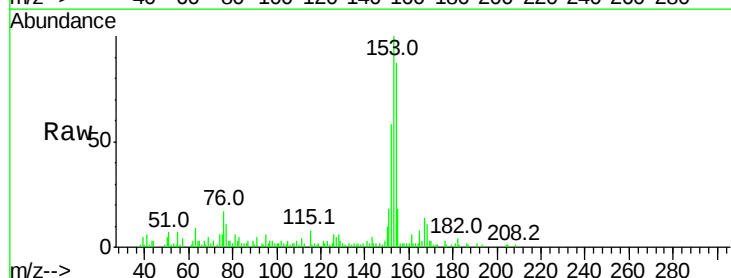
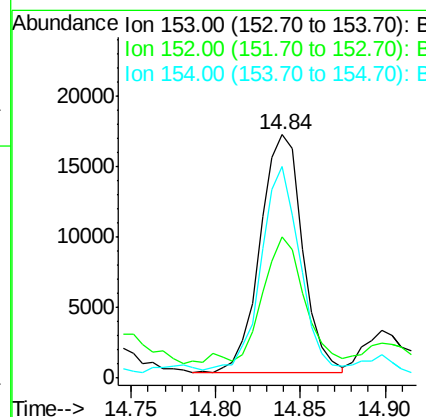
RT: 14.84 min Scan# 1966

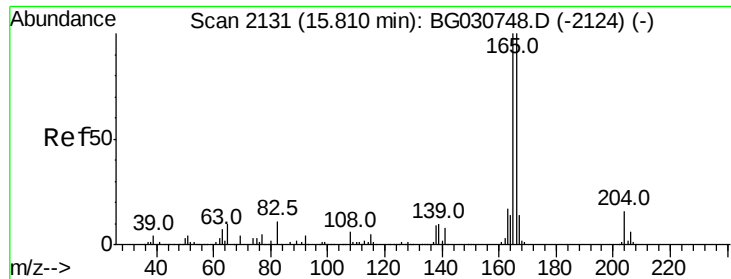
Delta R.T. 0.01 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 29305 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 58.3  | 38.2  | 57.2# |
| 154       | 86.8  | 70.6  | 105.8 |





#58

Fluorene

Concen: 6.708 ng/ul

RT: 15.82 min Scan# 2133

Delta R.T. 0.01 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

Instrument :

BNA\_G

ClientSampled :

B0ED5

Tot Ion:166 Resp: 133373

Ion Ratio Lower Upper

166 100

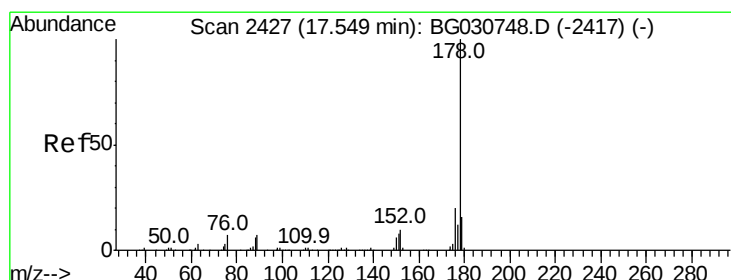
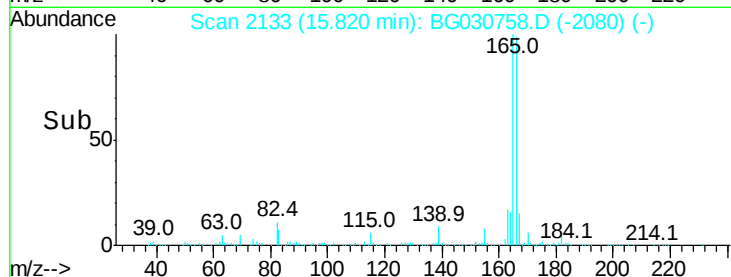
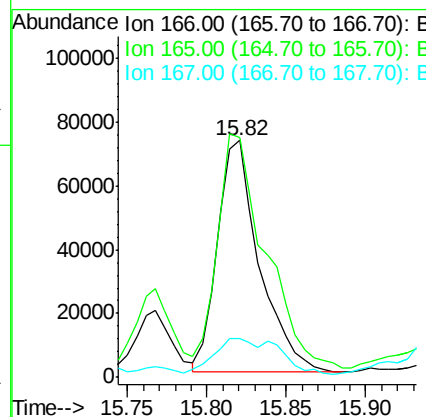
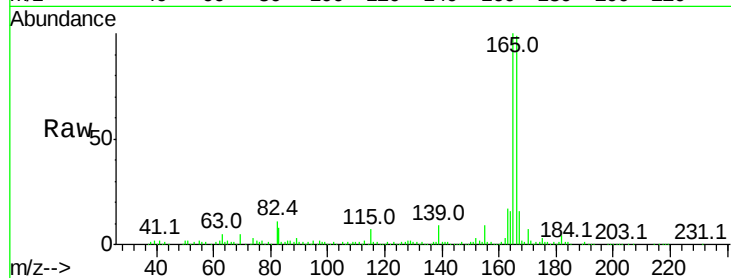
165 101.1 79.9 119.9

167 16.1 10.6 16.0#

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#69

Phenanthrene

Concen: 55.676 ng/ul m

RT: 17.56 min Scan# 2429

Delta R.T. 0.01 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

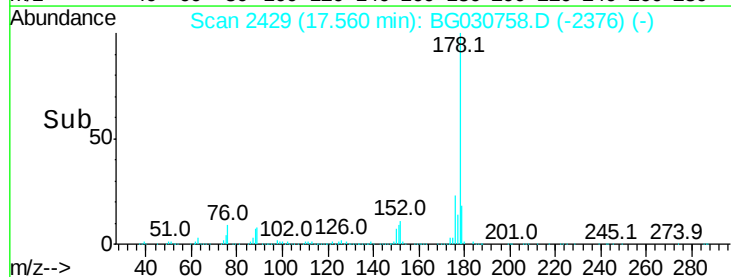
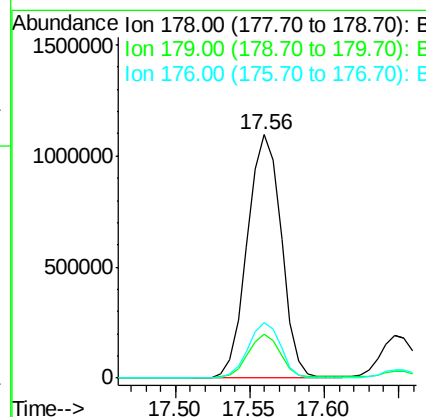
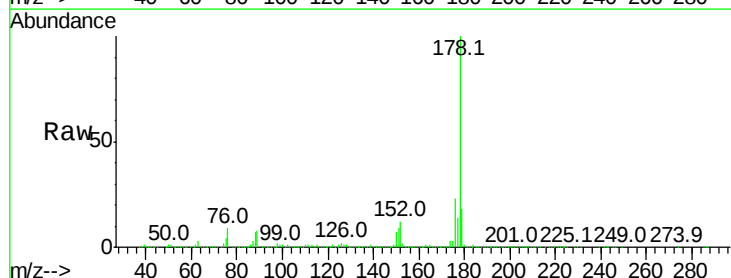
Tgt Ion:178 Resp: 1755153

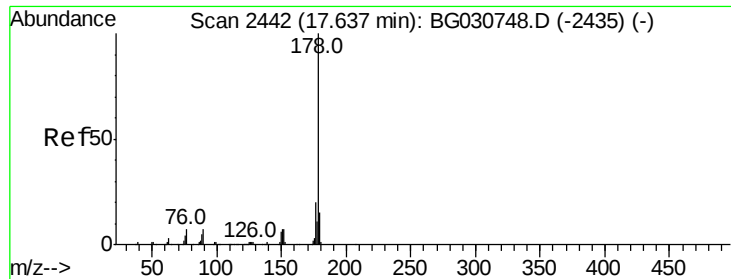
Ion Ratio Lower Upper

178 100

179 18.0 13.0 19.6

176 23.0 15.3 22.9#





#71

Anthracene

Concen: 9.694 ng/ul

RT: 17.65 min Scan# 2444

Delta R.T. 0.01 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

Instrument :

BNA\_G

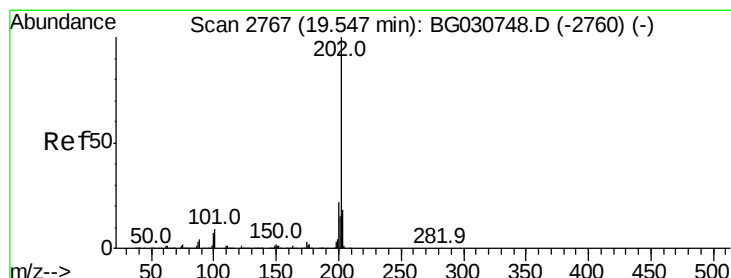
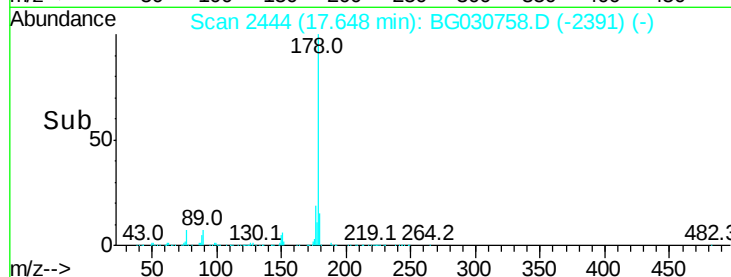
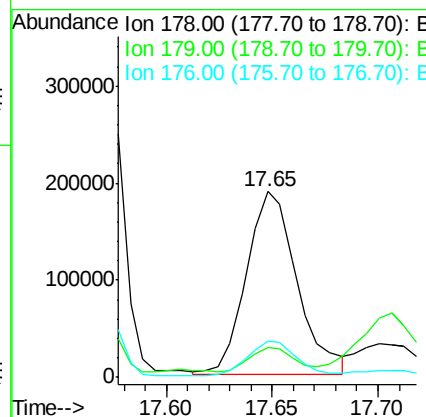
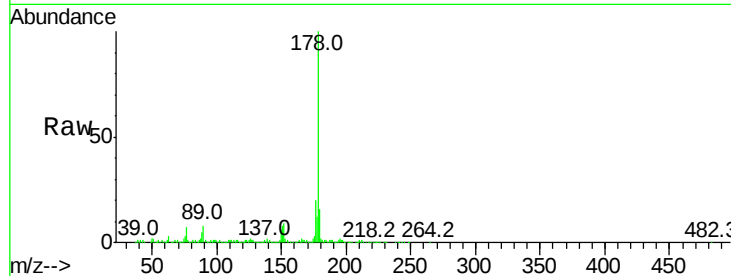
ClientSampleId :

B0ED5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 315311 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.2  | 13.2  | 19.8   |
| 176       | 19.6  | 16.0  | 24.0   |

Manual Integrations  
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#74

Fluoranthene

Concen: 62.547 ng/ul

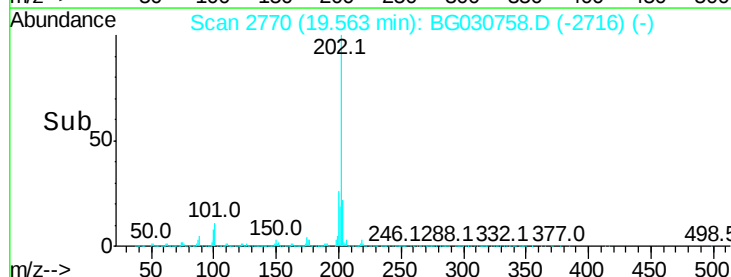
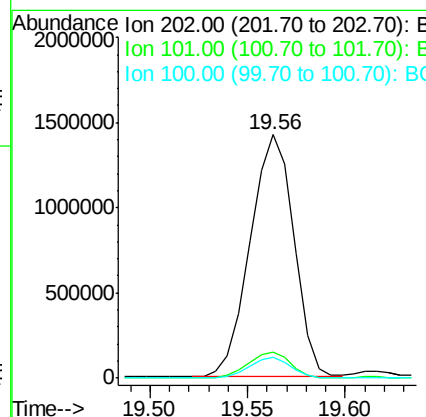
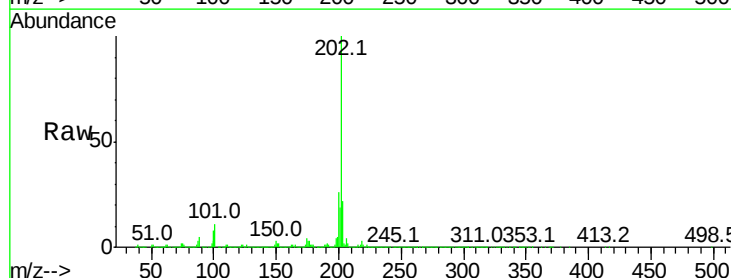
RT: 19.56 min Scan# 2770

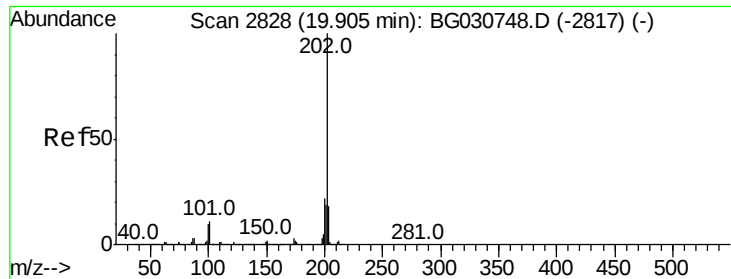
Delta R.T. 0.02 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 2203629 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.9  | 7.4   | 11.2    |
| 100       | 8.4   | 5.6   | 8.4     |





#77

Pvrene

Concen: 79.036 ng/ul

RT: 19.93 min Scan# 2832

Delta R.T. 0.02 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

Instrument :

BNA\_G

ClientSampled :

B0ED5

Tot Ion:202 Resp: 3259734

Ion Ratio Lower Upper

202 100

101 15.2 8.4 12.6#

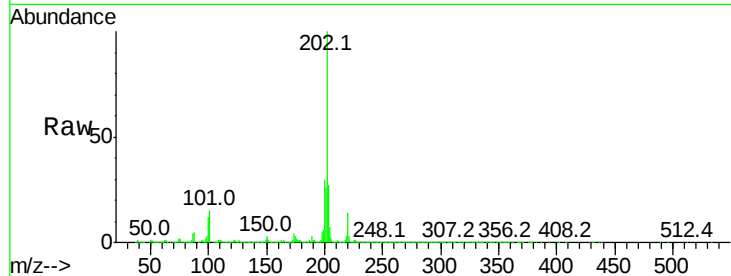
100 12.4 7.0 10.6#

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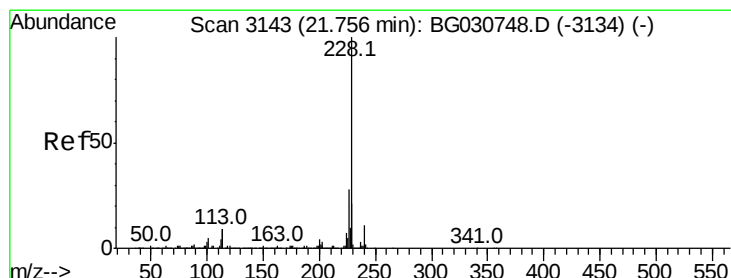
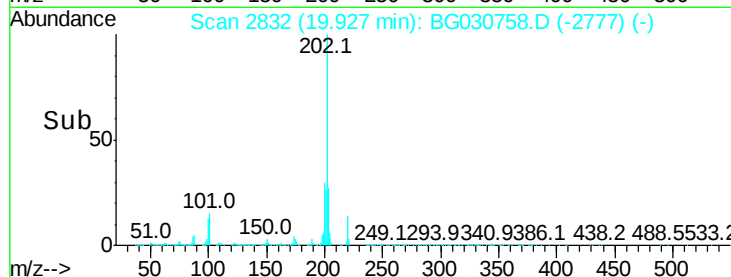
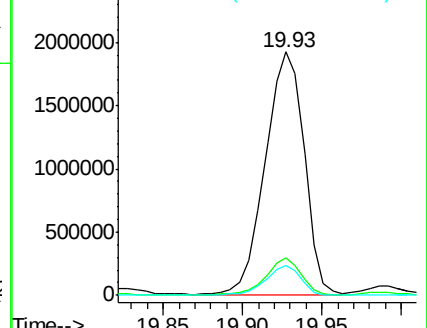
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#80

Benzo(a)anthracene

Concen: 51.123 ng/ul

RT: 21.78 min Scan# 3147

Delta R.T. 0.02 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

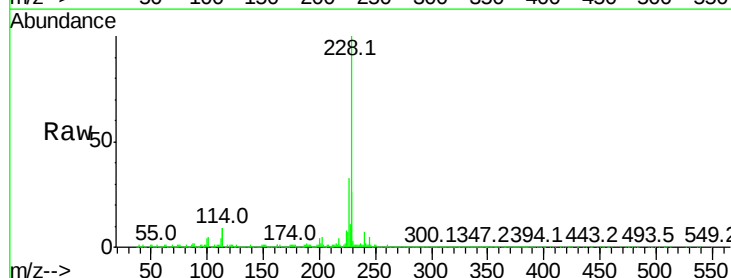
Tgt Ion:228 Resp: 1971634

Ion Ratio Lower Upper

228 100

229 26.0 16.2 24.4#

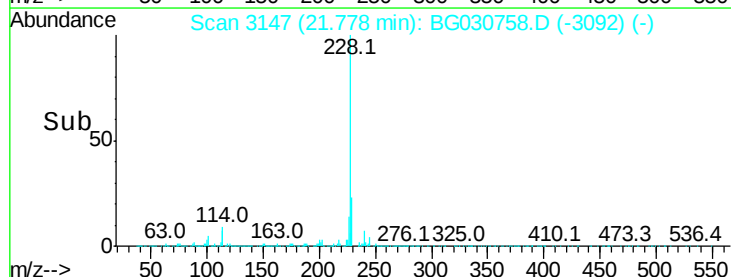
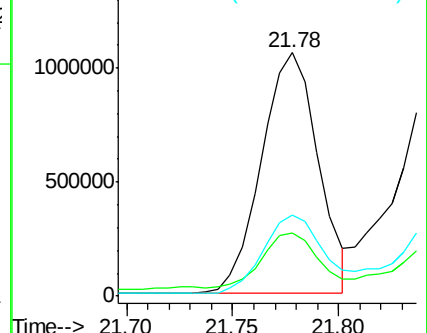
226 33.3 22.2 33.2#

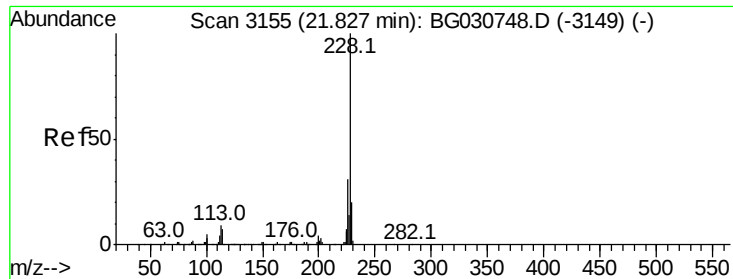


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 61.520 ng/ul

RT: 21.85 min Scan# 3159

Delta R.T. 0.02 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

Instrument :

BNA\_G

ClientSampled :

B0ED5

Tot Ion:228 Resp: 2155749

Ion Ratio Lower Upper

228 100

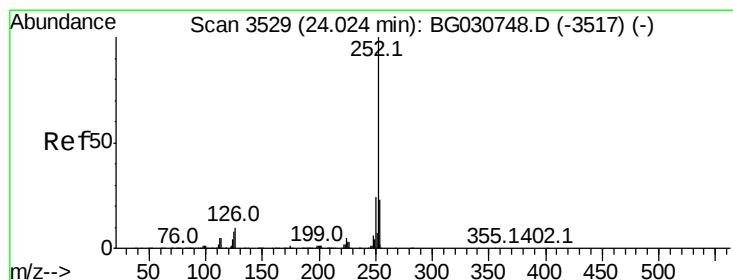
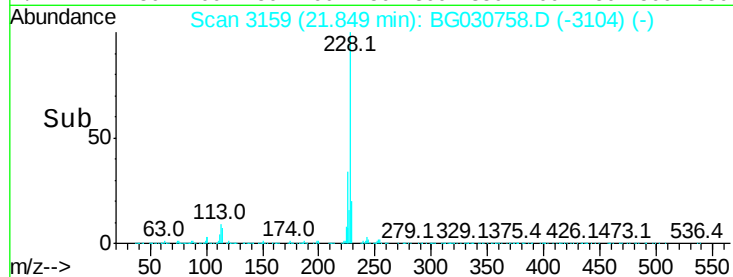
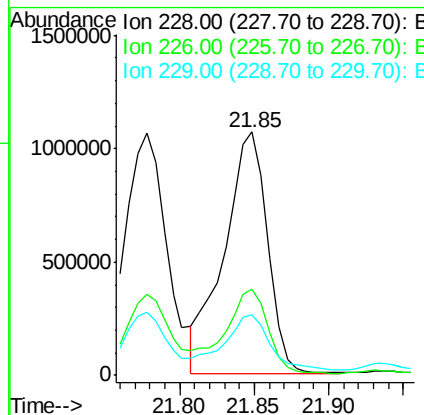
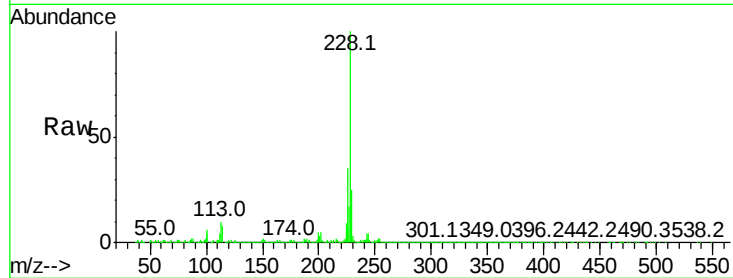
226 35.4 24.2 36.2

229 25.0 15.2 22.8#

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#85

Benzo(b)fluoranthene

Concen: 44.462 ng/ul

RT: 24.07 min Scan# 3537

Delta R.T. 0.05 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

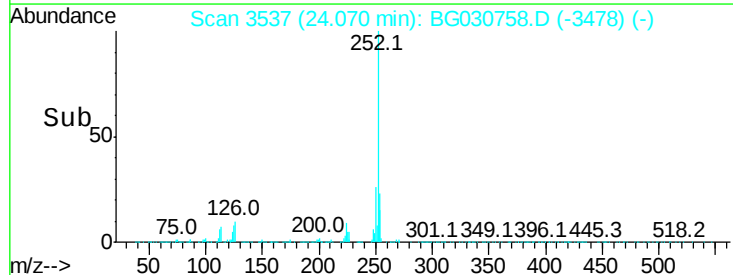
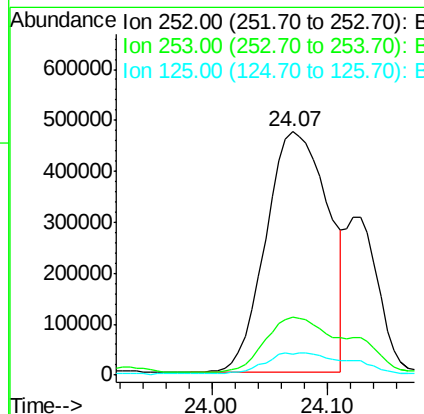
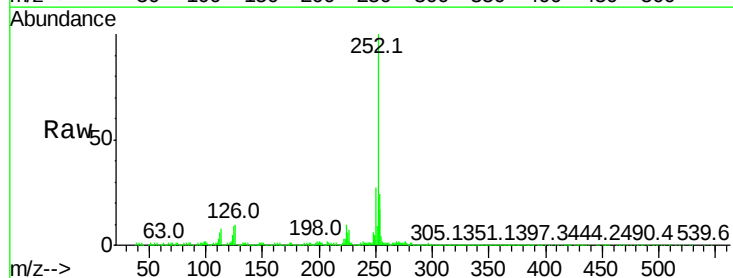
Tgt Ion:252 Resp: 1775235

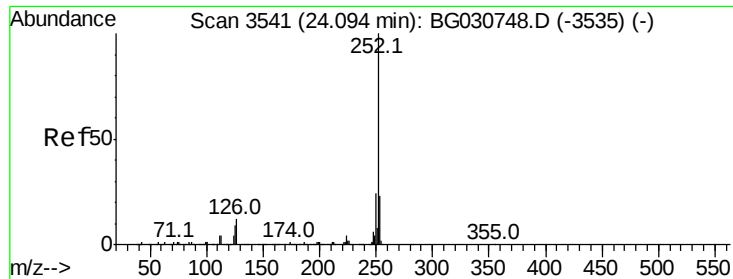
Ion Ratio Lower Upper

252 100

253 24.1 17.0 25.4

125 8.6 7.5 11.3





#86

Benzo(k)fluoranthene

Concen: 16.209 ng/ul m

RT: 24.12 min Scan# 3546

Delta R.T. 0.03 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

Instrument :

BNA\_G

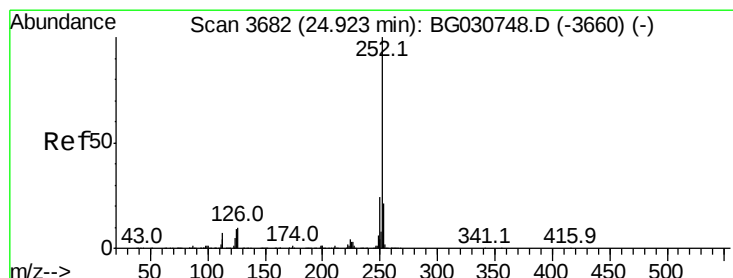
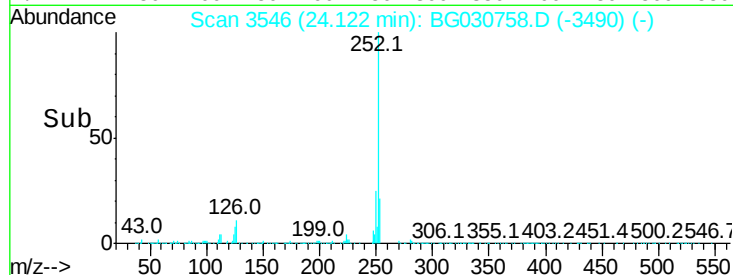
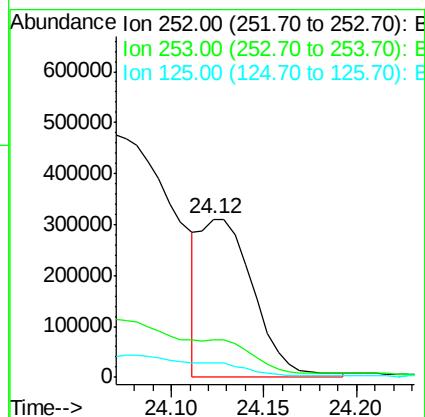
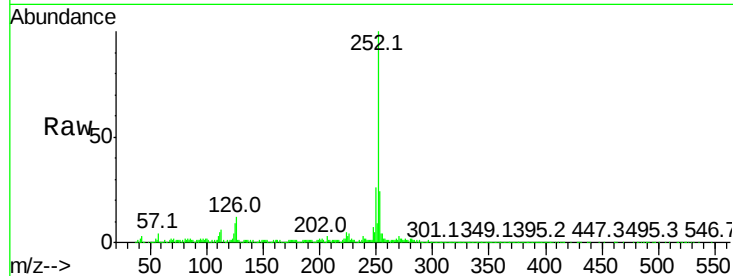
ClientSampleId :

B0ED5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 625740 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.0  | 17.2  | 25.8   |
| 125       | 8.9   | 7.8   | 11.8   |

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#88

Benzo(a)pyrene

Concen: 42.151 ng/ul

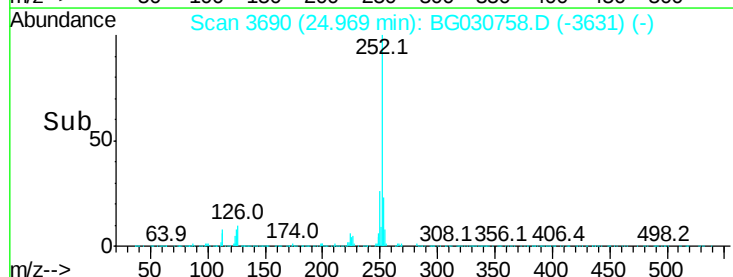
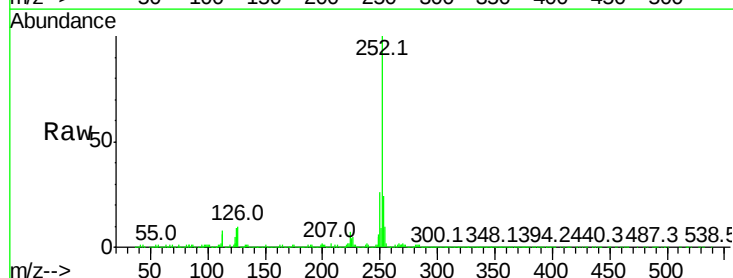
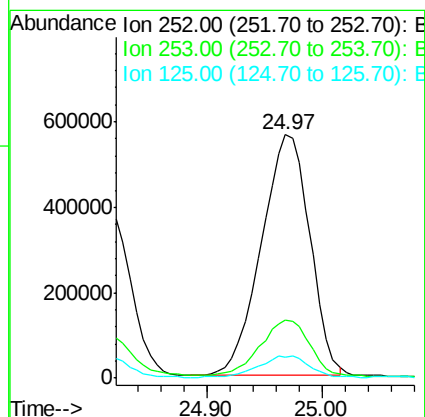
RT: 24.97 min Scan# 3690

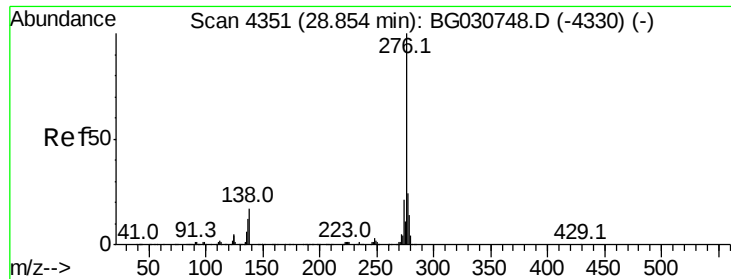
Delta R.T. 0.05 min

Lab File: BG030758.D

Acq: 6 Nov 2017 3:29

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1638231 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 24.1  | 17.1  | 25.7    |
| 125       | 8.6   | 7.8   | 11.8    |





#89

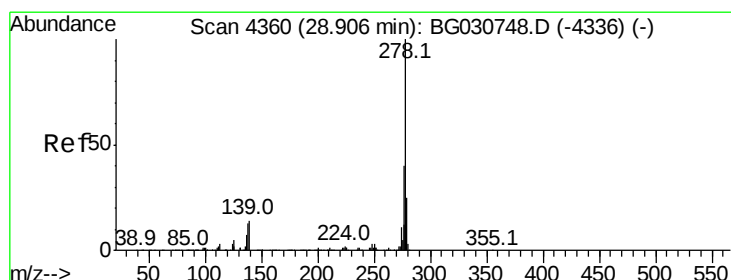
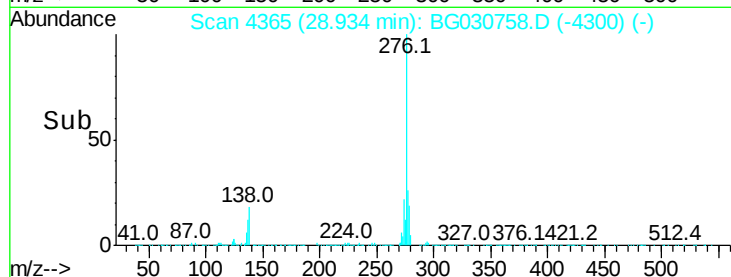
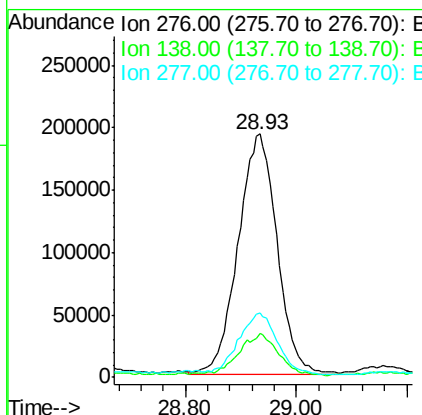
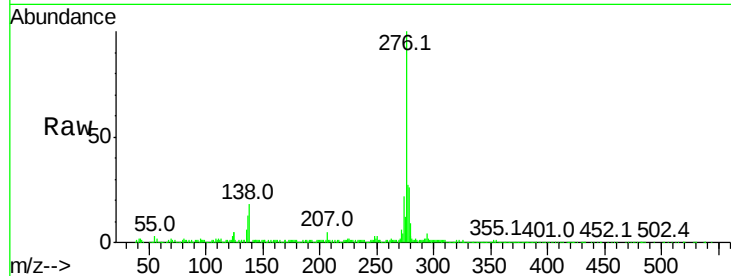
Indeno(1,2,3-cd)pyrene  
Concen: 21.297 ng/ul m  
RT: 28.93 min Scan# 4365  
Delta R.T. 0.08 min  
Lab File: BG030758.D  
Acq: 6 Nov 2017 3:29

Instrument :  
BNA\_G  
ClientSampled :  
B0ED5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.2  | 13.4  | 20.0  |
| 277     | 26.7  | 18.6  | 28.0  |

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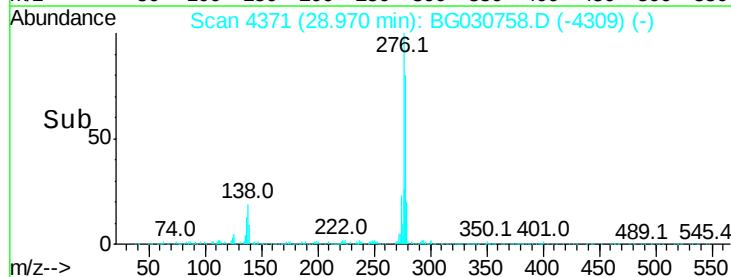
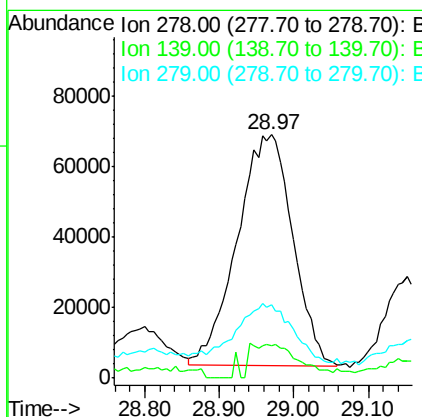
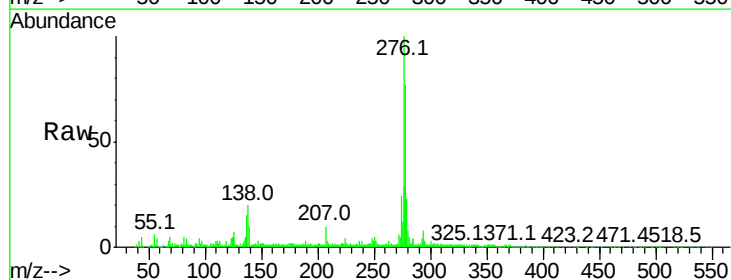
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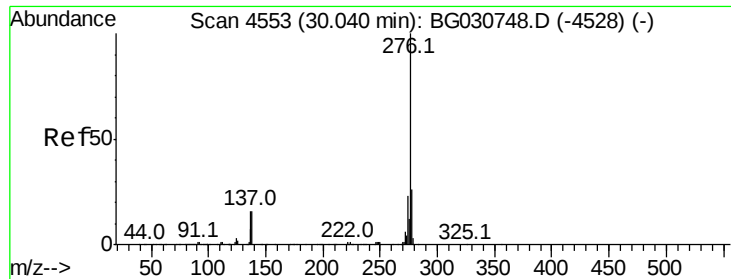


#90

Dibenzo(a,h)anthracene  
Concen: 9.316 ng/ul m  
RT: 28.97 min Scan# 4371  
Delta R.T. 0.06 min  
Lab File: BG030758.D  
Acq: 6 Nov 2017 3:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 13.1  | 9.4   | 14.2  |
| 279     | 30.2  | 18.4  | 27.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 24.528 ng/ul m  
 RT: 30.13 min Scan# 4568  
 Delta R.T. 0.09 min  
 Lab File: BG030758.D  
 Acq: 6 Nov 2017 3:29

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0ED5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.7  | 12.1  | 18.1  |
| 277     | 25.5  | 17.7  | 26.5  |

Manual Integrations  
 APPROVED

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