

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG110917\  
 Data File : BG030899.D  
 Acq On : 10 Nov 2017 3:05  
 Operator : SJ/JU  
 Sample : I6286-20  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0F74

Manual Integrations  
 APPROVED

Sohil  
 11/10/2017 1:13:32 PM

Quant Time: Nov 10 04:53:20 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG101417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 10 03:42:09 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 60151    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.97 | 136  | 255972   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.77 | 164  | 159508   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.51 | 188  | 367070   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.79 | 240  | 417424   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.11 | 264  | 429768   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.53  | 96  | 6998   | 4.73  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.31  | 99  | 140576 | 24.35 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.46  | 67  | 81290  | 22.50 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.68  | 132 | 119618 | 29.37 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.86  | 113 | 114951 | 24.65 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.32  | 128 | 58019  | 31.57 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.04 | 143 | 72217  | 38.36 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.59 | 165 | 127752 | 29.78 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.10 | 131 | 31013  | 6.22  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.16 | 166 | 385340 | 28.26 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.47 | 160 | 492881 | 29.72 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.98 | 143 | 59986  | 23.83 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.75 | 176 | 363834 | 32.58 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.88 | 200 | 47892  | 26.73 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.61 | 188 | 567189 | 32.67 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.89 | 212 | 642986 | 29.76 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.89 | 264 | 656047 | 32.23 | ng/ul | 0.02 |

## Target Compounds

|                            |       |     |         |        | Qvalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 6) Phenol                  | 7.34  | 94  | 11613   | 1.944  | ng/ul# | 91 |
| 44) Dimethylphthalate      | 14.21 | 163 | 21436   | 1.612  | ng/ul# | 90 |
| 49) Acenaphthene           | 14.83 | 153 | 57315   | 4.952  | ng/ul  | 97 |
| 53) Dibenzofuran           | 15.17 | 168 | 27082   | 1.711  | ng/ul  | 92 |
| 58) Fluorene               | 15.81 | 166 | 36505   | 2.892  | ng/ul  | 99 |
| 69) Phenanthrene           | 17.55 | 178 | 544096  | 27.419 | ng/ul  | 98 |
| 71) Anthracene             | 17.65 | 178 | 128972  | 6.299  | ng/ul  | 97 |
| 72) Carbazole              | 17.91 | 167 | 85560   | 4.649  | ng/ul  | 99 |
| 74) Fluoranthene           | 19.56 | 202 | 1153043 | 51.993 | ng/ul  | 99 |
| 77) Pyrene                 | 19.91 | 202 | 983441  | 35.153 | ng/ul  | 98 |
| 80) Benzo(a)anthracene     | 21.77 | 228 | 632911  | 24.194 | ng/ul  | 97 |
| 82) Chrysene               | 21.84 | 228 | 647613m | 27.246 | ng/ul  |    |
| 85) Benzo(b)fluoranthene   | 24.05 | 252 | 869602  | 33.705 | ng/ul  | 94 |
| 86) Benzo(k)fluoranthene   | 24.11 | 252 | 292640m | 11.731 | ng/ul  |    |
| 88) Benzo(a)pyrene         | 24.96 | 252 | 594604  | 23.676 | ng/ul  | 94 |
| 89) Indeno(1,2,3-cd)pyrene | 28.94 | 276 | 476500  | 16.770 | ng/ul  | 94 |
| 90) Dibenzo(a,h)anthracene | 28.98 | 278 | 123481  | 5.231  | ng/ul# | 81 |
| 91) Benzo(g,h,i)perylene   | 30.14 | 276 | 424022  | 18.003 | ng/ul  | 95 |

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

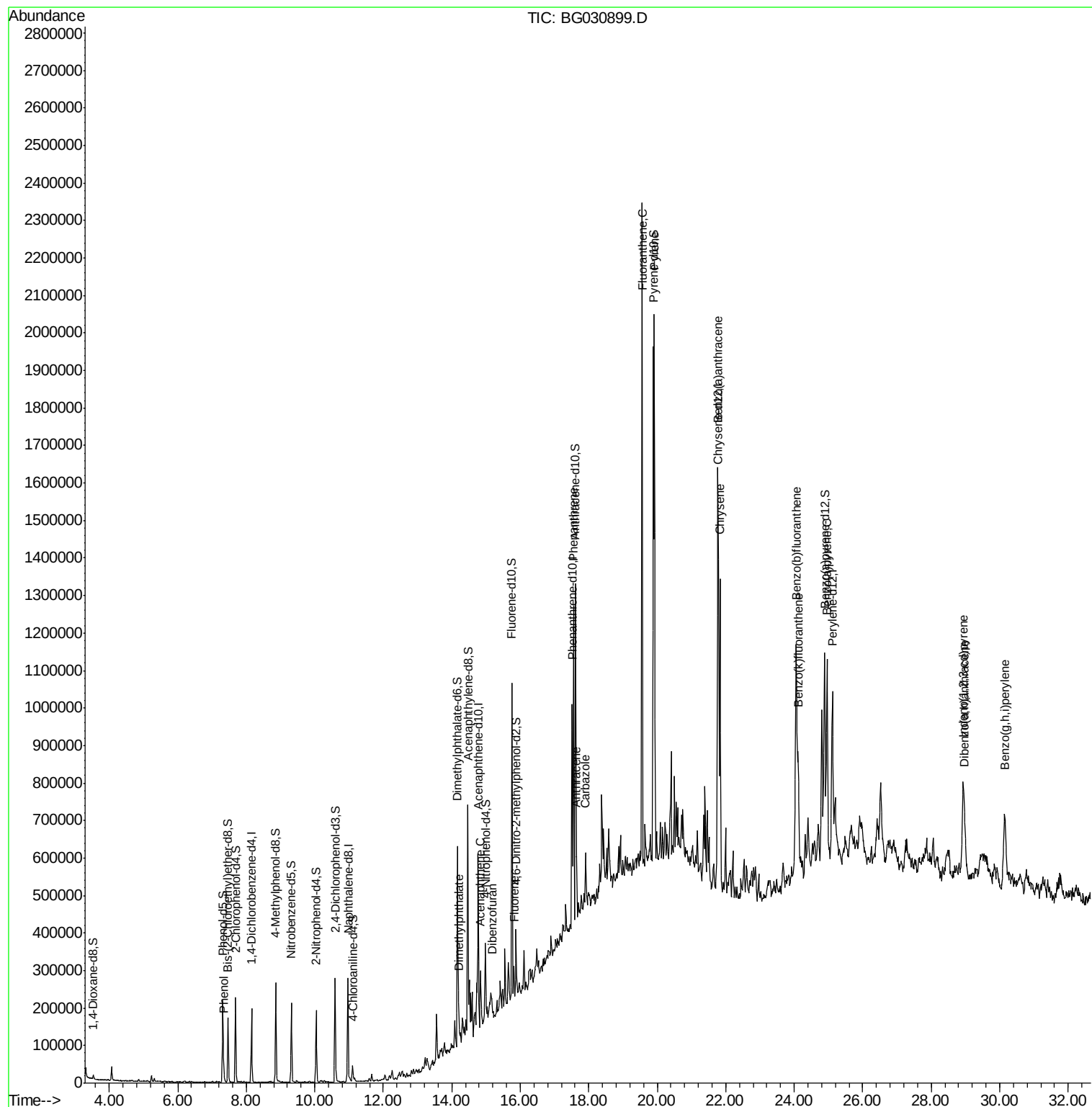
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG110917\  
 Data File : BG030899.D  
 Acq On : 10 Nov 2017 3:05  
 Operator : SJ/JU  
 Sample : I6286-20  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

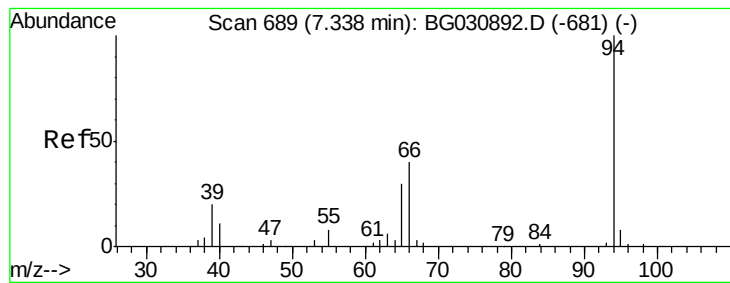
Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0F74

Manual Integrations  
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Quant Time: Nov 10 04:53:20 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG101417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 10 03:42:09 2017  
 Response via : Initial Calibration





#6

Phenol

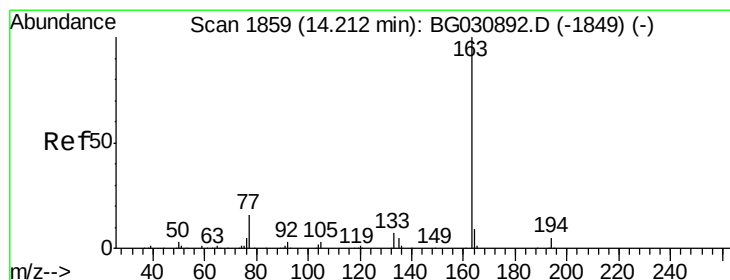
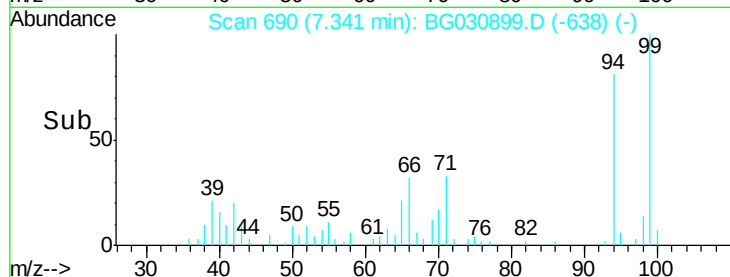
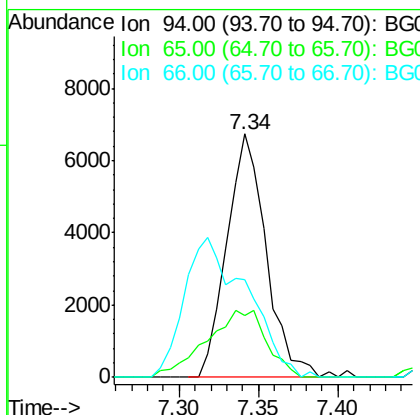
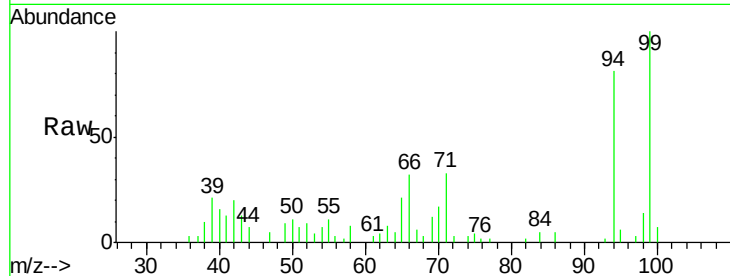
Concen: 1.944 ng/ul  
 RT: 7.34 min Scan# 690  
 Delta R.T. 0.00 min  
 Lab File: BG030899.D  
 Acq: 10 Nov 2017 3:05

Instrument :  
 BNA\_G  
 ClientSampled :  
 B0F74

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 94      | 100   | 11613 |       |       |
| 65      | 25.6  |       | 27.1  | 40.7# |
| 66      | 40.0  |       | 34.6  | 52.0  |

Manual Integrations  
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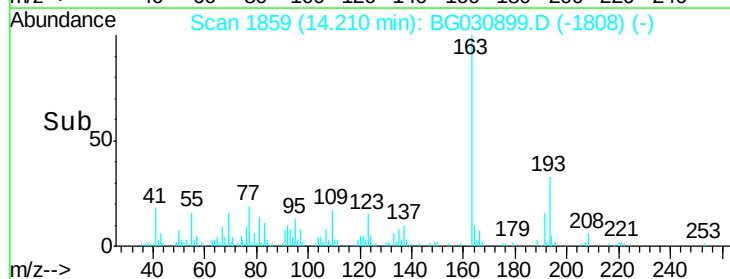
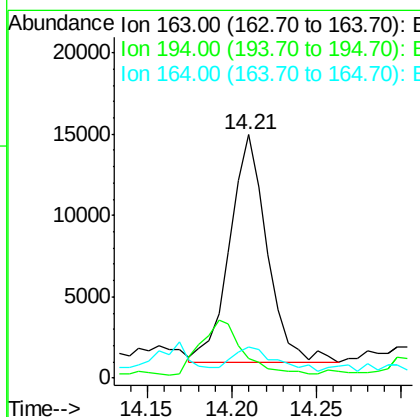
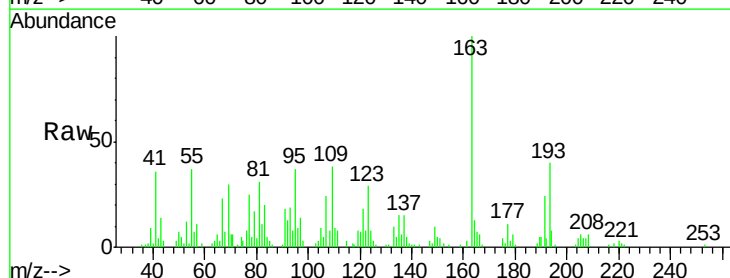


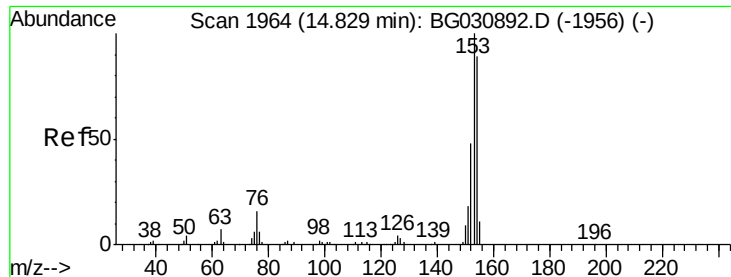
#44

Dimethylphthalate

Concen: 1.612 ng/ul  
 RT: 14.21 min Scan# 1859  
 Delta R.T. -0.00 min  
 Lab File: BG030899.D  
 Acq: 10 Nov 2017 3:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 21436 |       |       |
| 194     | 8.0   |       | 3.5   | 5.3#  |
| 164     | 12.8  |       | 7.6   | 11.4# |





#49

Acenaphthene

Concen: 4.952 ng/ul

RT: 14.83 min Scan# 1965

Delta R.T. 0.00 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

Instrument :

BNA\_G

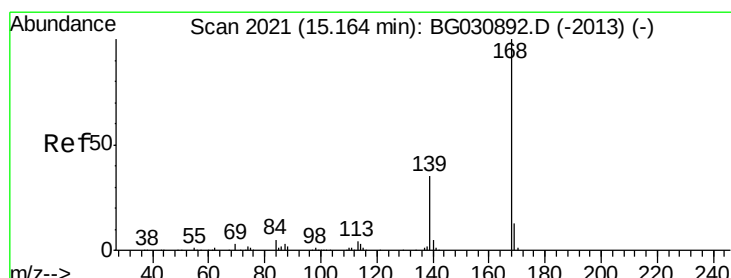
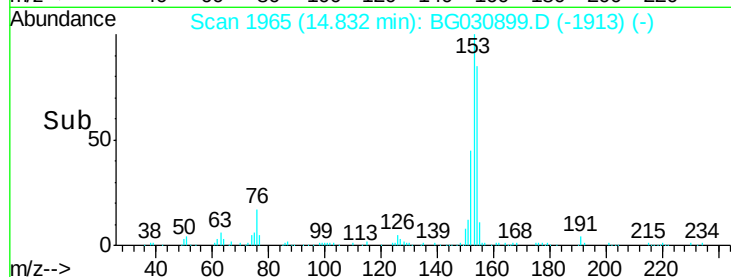
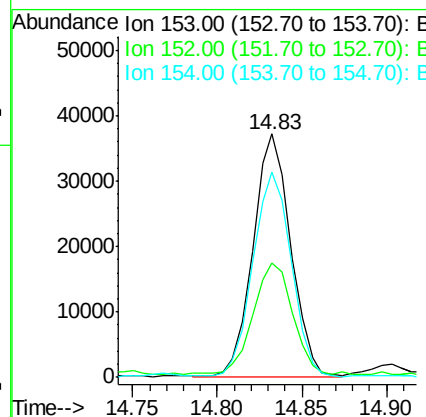
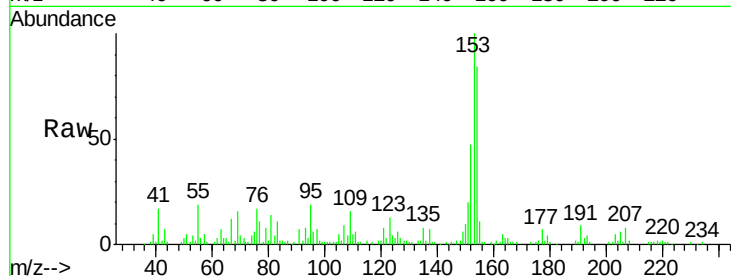
ClientSampled :

B0F74

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 57315 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 47.0  | 38.2  | 57.2  |
| 154       | 84.5  | 70.6  | 105.8 |

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#53

Dibenzofuran

Concen: 1.711 ng/ul

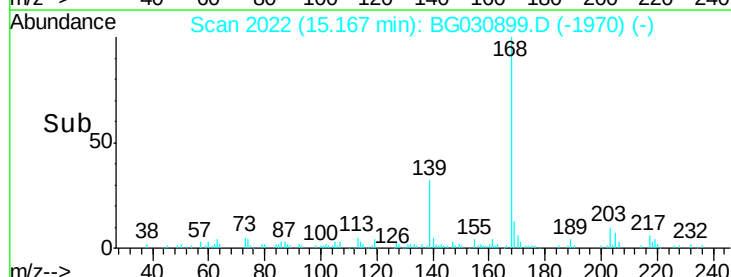
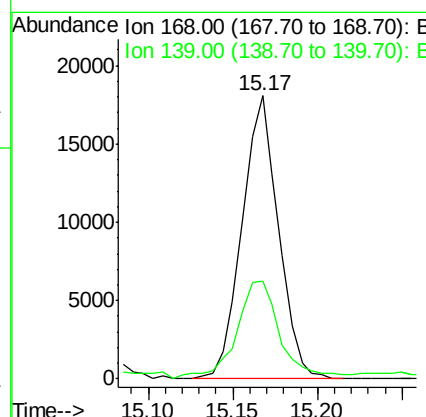
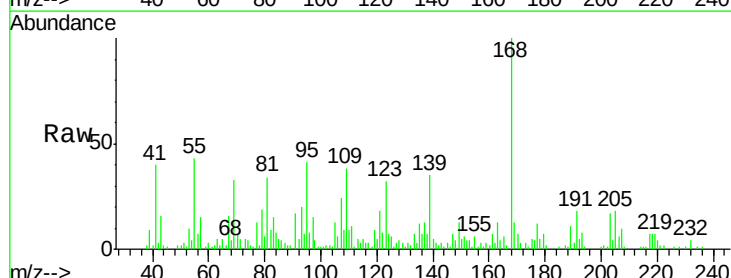
RT: 15.17 min Scan# 2022

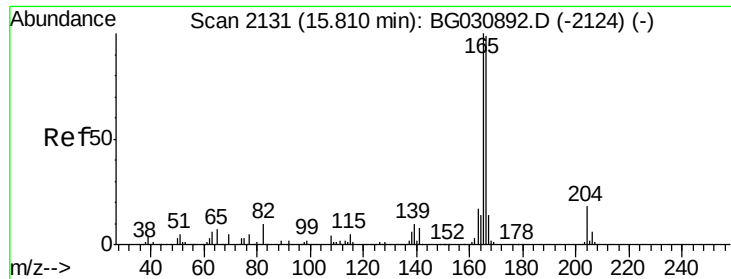
Delta R.T. 0.00 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 27082 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 34.6  | 31.4  | 47.2  |





#58

Fluorene

Concen: 2.892 ng/ul

RT: 15.81 min Scan# 2132

Delta R.T. 0.00 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

Instrument :

BNA\_G

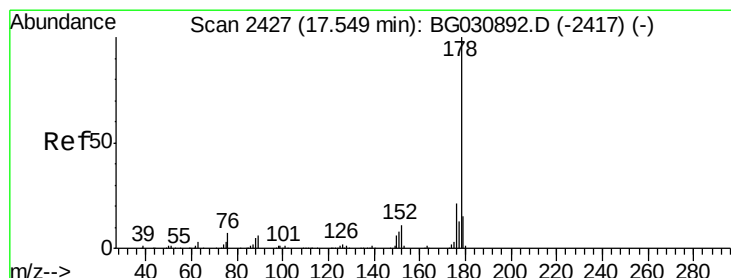
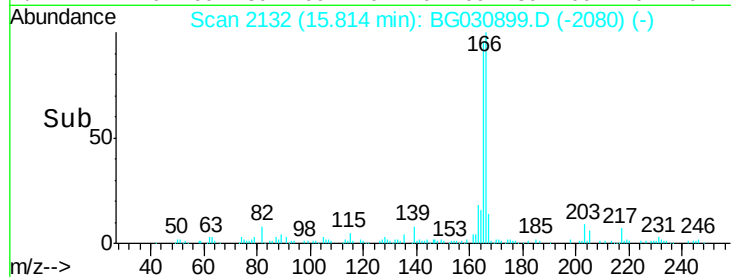
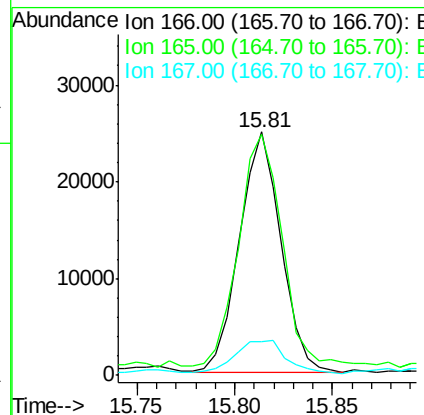
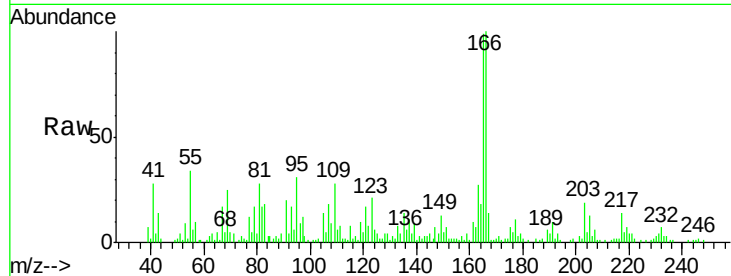
ClientSampleId :

B0F74

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 36505 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.1  | 79.9  | 119.9 |
| 167       | 14.1  | 10.6  | 16.0  |

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#69

Phenanthrene

Concen: 27.419 ng/ul

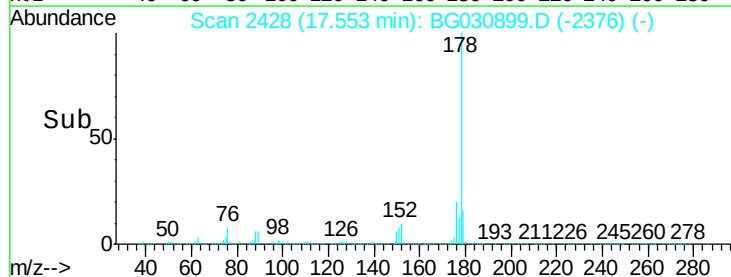
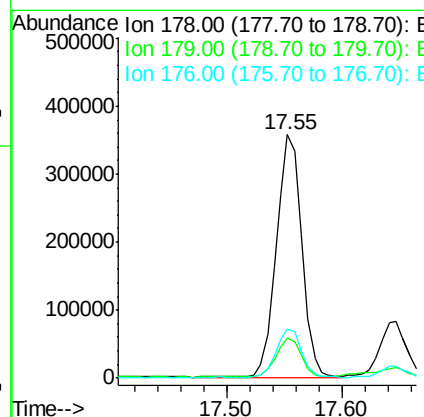
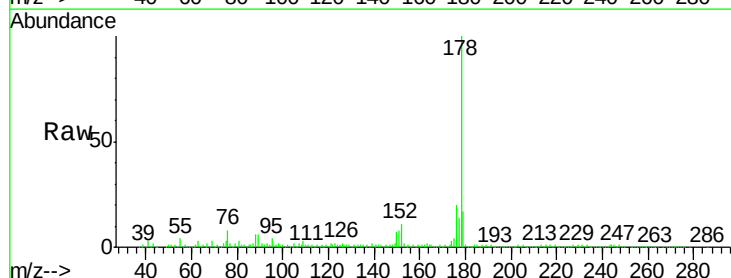
RT: 17.55 min Scan# 2428

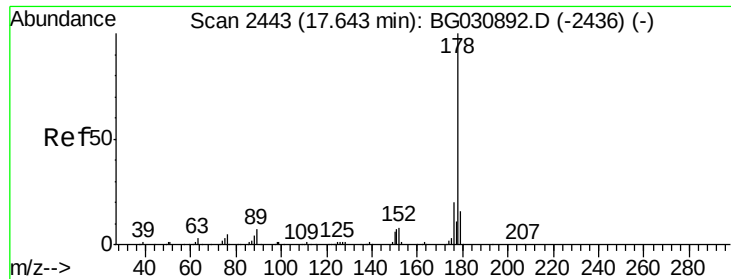
Delta R.T. 0.00 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 544096 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.5  | 13.0  | 19.6   |
| 176       | 20.4  | 15.3  | 22.9   |





#71

Anthracene

Concen: 6.299 ng/ul

RT: 17.65 min Scan# 2444

Delta R.T. 0.00 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

Instrument :

BNA\_G

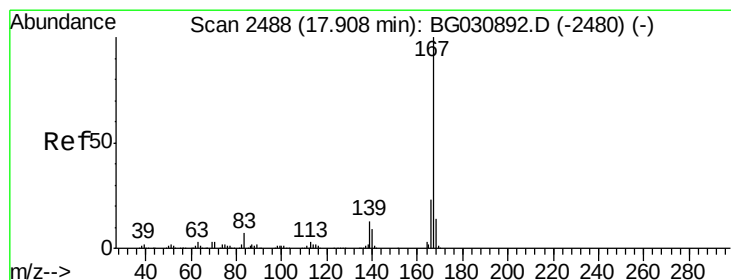
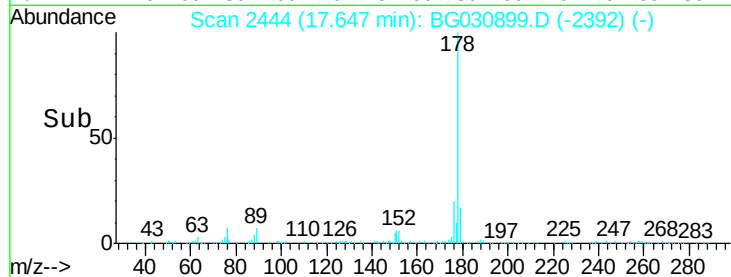
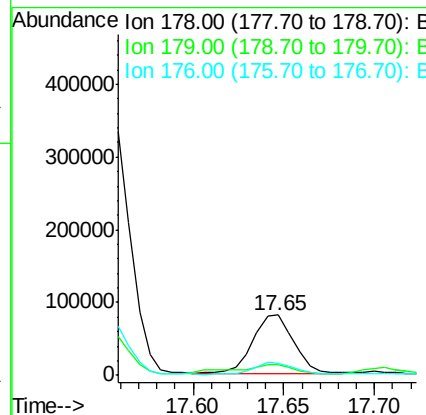
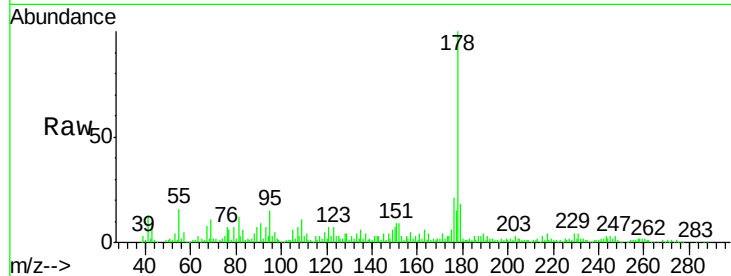
ClientSampled :

B0F74

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 128972 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 18.2  | 13.2  | 19.8   |
| 176       | 20.8  | 16.0  | 24.0   |

Manual Integrations  
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#72

Carbazole

Concen: 4.649 ng/ul

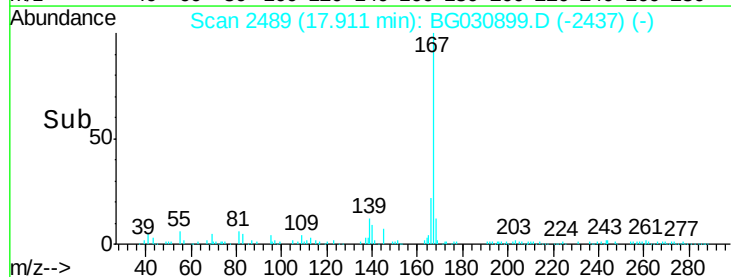
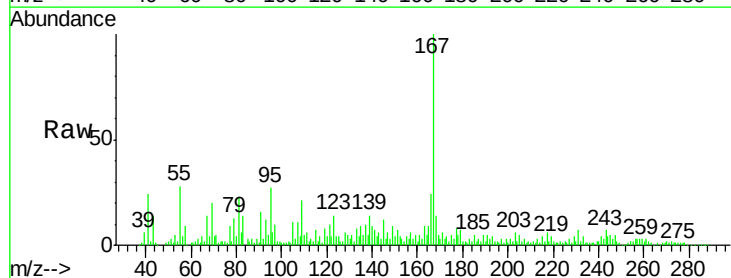
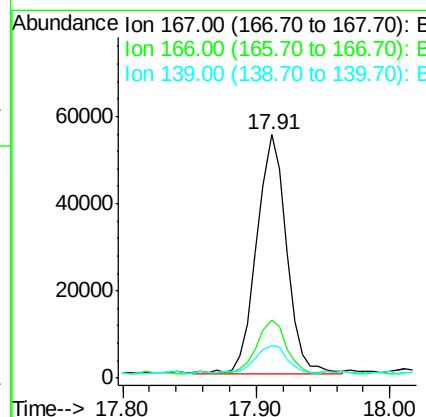
RT: 17.91 min Scan# 2489

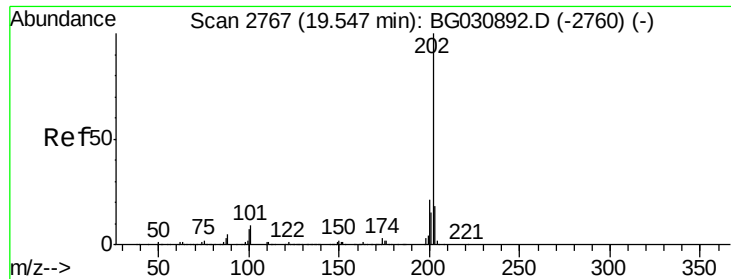
Delta R.T. 0.00 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 85560 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 23.6  | 18.6  | 28.0  |
| 139       | 13.5  | 10.6  | 16.0  |





#74

Fluoranthene

Concen: 51.993 ng/ul

RT: 19.56 min Scan# 2769

Delta R.T. 0.01 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

Instrument :

BNA\_G

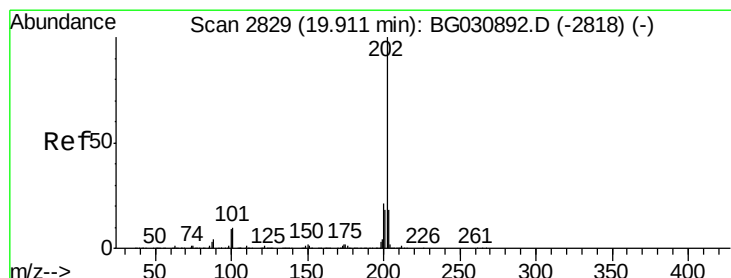
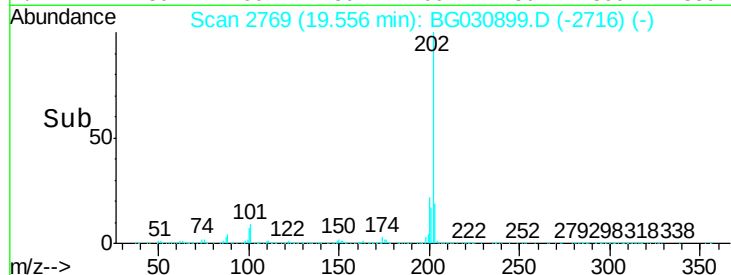
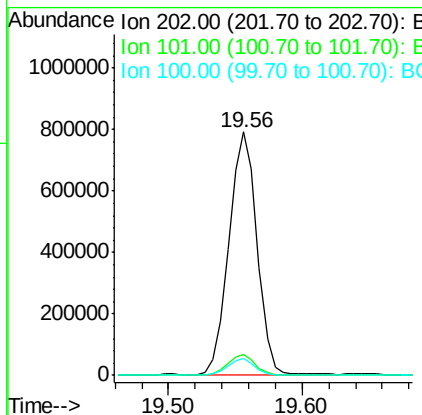
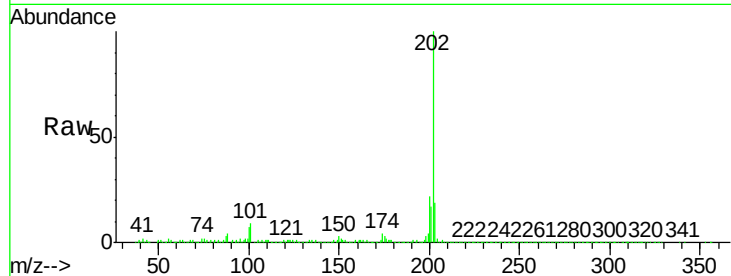
ClientSampled :

B0F74

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1153043 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 8.6   | 7.4   | 11.2    |
| 100       | 6.9   | 5.6   | 8.4     |

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#77

Pyrene

Concen: 35.153 ng/ul

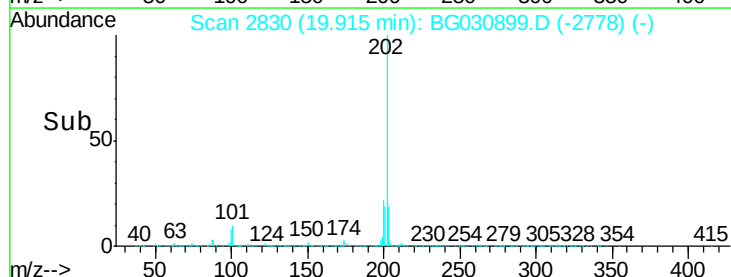
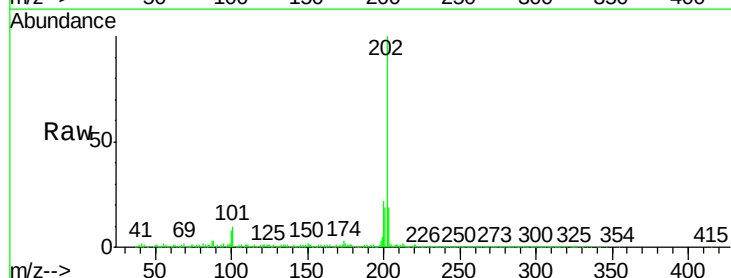
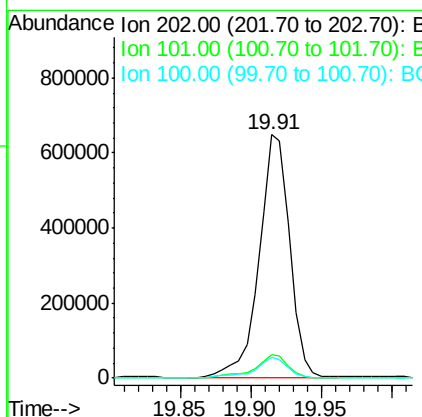
RT: 19.91 min Scan# 2830

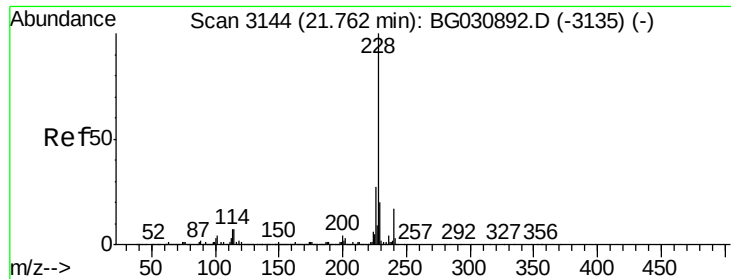
Delta R.T. 0.00 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 983441 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.7   | 8.4   | 12.6   |
| 100       | 8.4   | 7.0   | 10.6   |





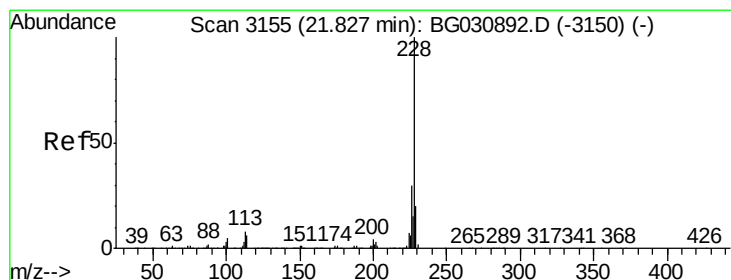
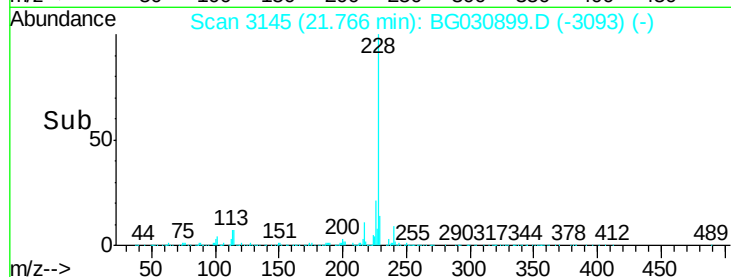
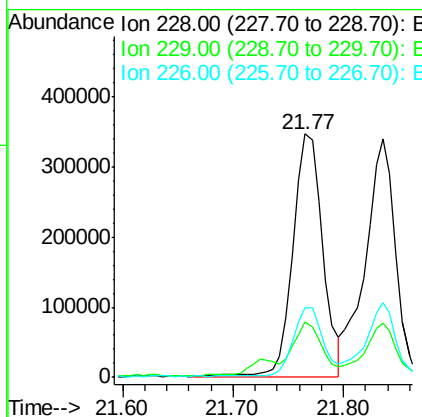
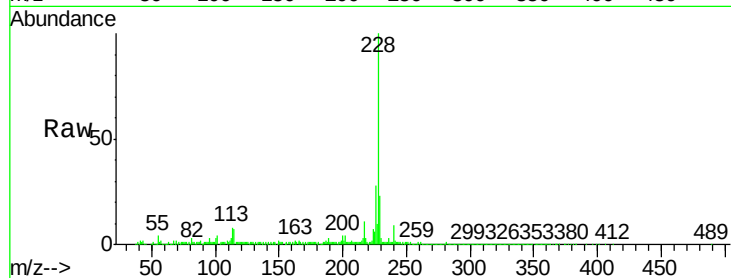
#80  
Benzo(a)anthracene  
Concen: 24.194 ng/ul  
RT: 21.77 min Scan# 3145  
Delta R.T. 0.00 min  
Lab File: BG030899.D  
Acq: 10 Nov 2017 3:05

Instrument :  
BNA\_G  
ClientSampleId :  
B0F74

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.5  | 16.2  | 24.4  |
| 226     | 28.4  | 22.2  | 33.2  |

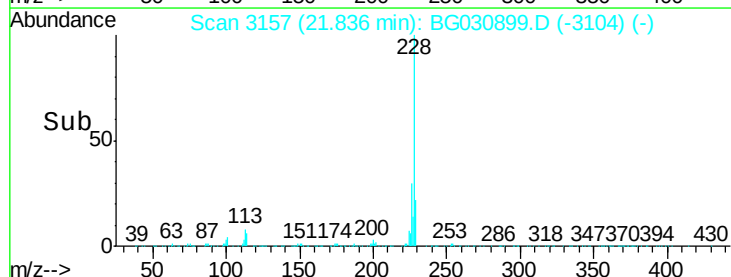
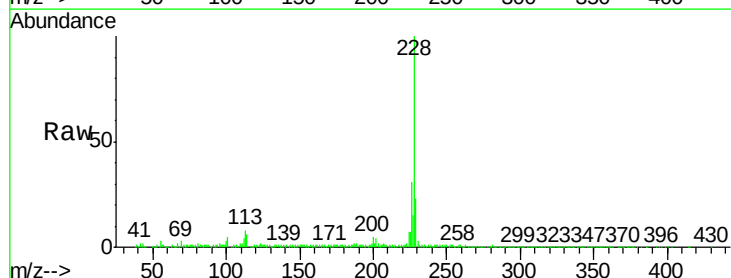
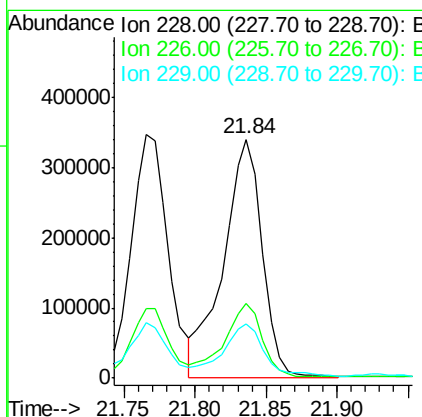
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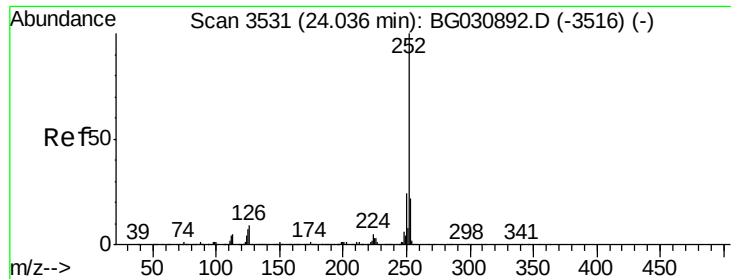


#82  
Chrysene  
Concen: 27.246 ng/ul m  
RT: 21.84 min Scan# 3157  
Delta R.T. 0.01 min  
Lab File: BG030899.D  
Acq: 10 Nov 2017 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 24.2  | 36.2  |
| 229     | 22.9  | 15.2  | 22.8# |







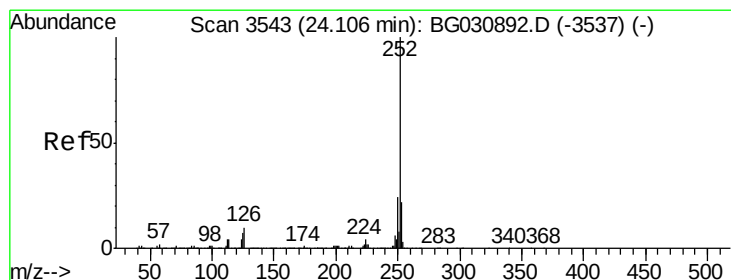
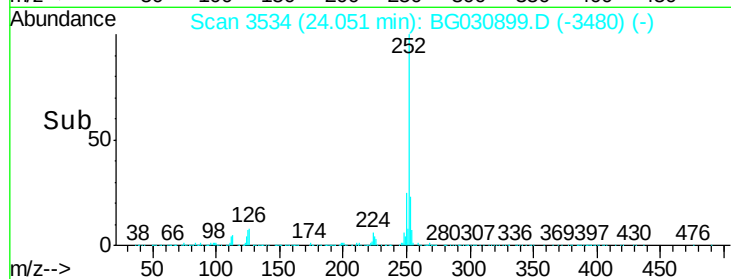
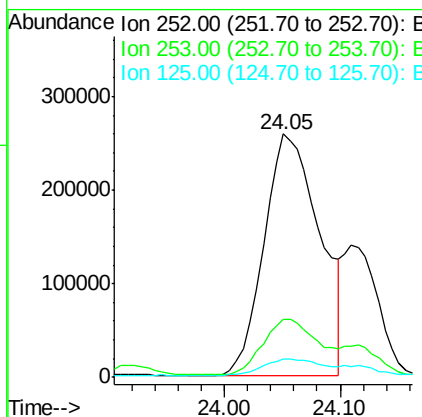
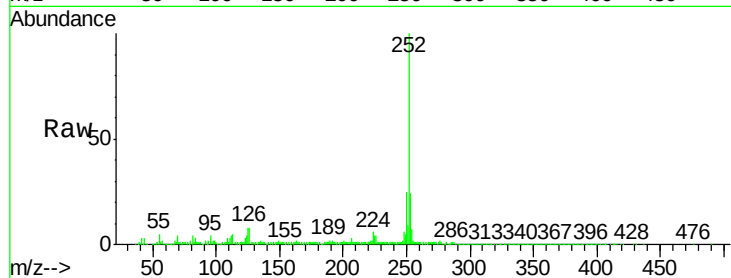
#85  
Benzo(b)fluoranthene  
Concen: 33.705 ng/ul  
RT: 24.05 min Scan# 3534  
Delta R.T. 0.02 min  
Lab File: BG030899.D  
Acq: 10 Nov 2017 3:05

Instrument :  
BNA\_G  
ClientSampled :  
B0F74

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.0  | 25.4  |
| 125     | 7.8   | 7.5   | 11.3  |

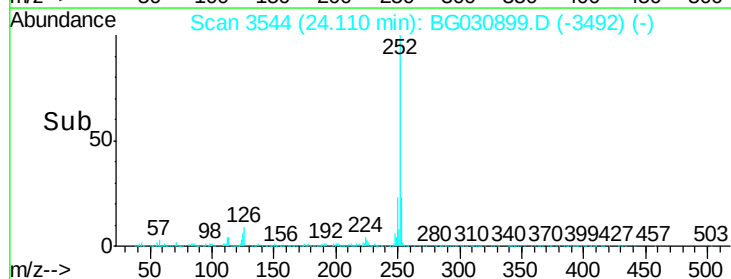
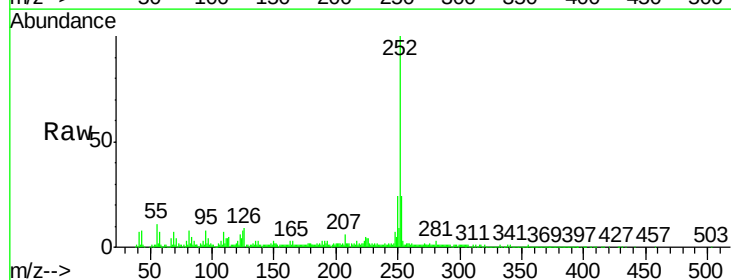
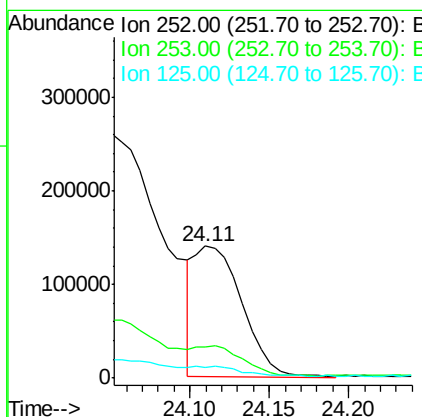
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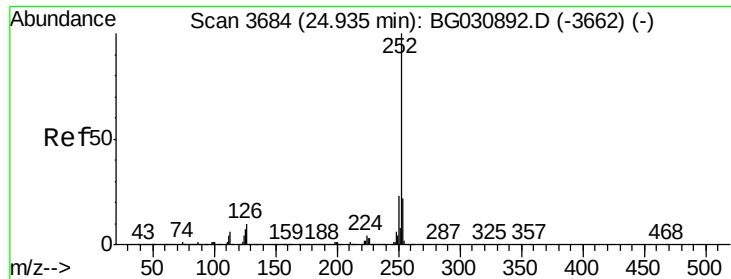
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#86  
Benzo(k)fluoranthene  
Concen: 11.731 ng/ul m  
RT: 24.11 min Scan# 3544  
Delta R.T. 0.00 min  
Lab File: BG030899.D  
Acq: 10 Nov 2017 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.2  | 25.8  |
| 125     | 7.7   | 7.8   | 11.8# |





#88

Benzo(a)pyrene

Concen: 23.676 ng/ul

RT: 24.96 min Scan# 3688

Delta R.T. 0.02 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

Instrument :

BNA\_G

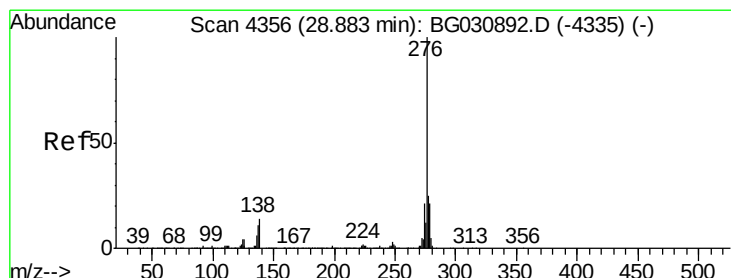
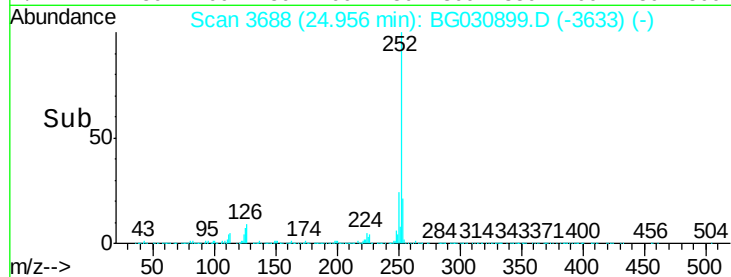
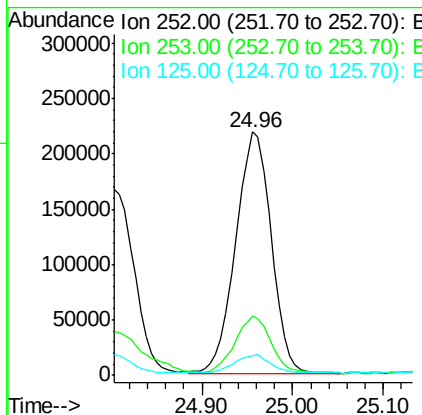
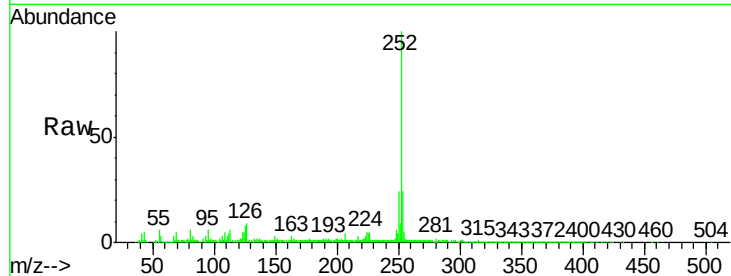
ClientSampled :

B0F74

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 594604 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.2  | 17.1  | 25.7   |
| 125       | 7.9   | 7.8   | 11.8   |

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#89

Indeno(1,2,3-cd)pyrene

Concen: 16.770 ng/ul

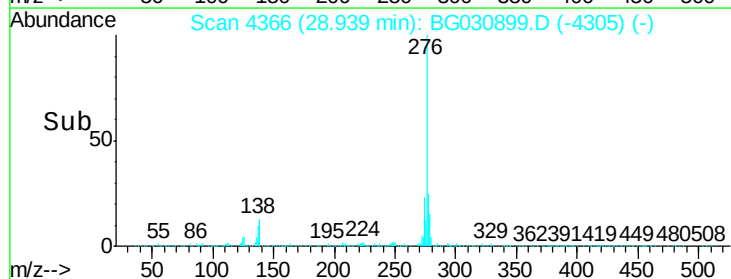
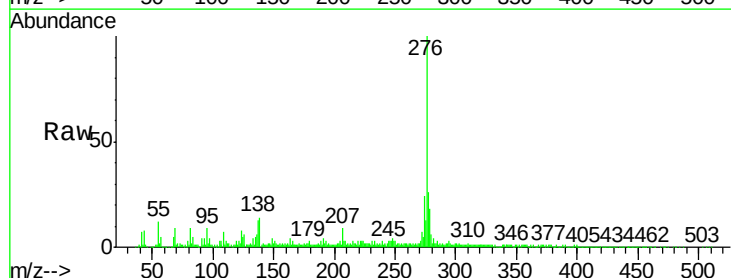
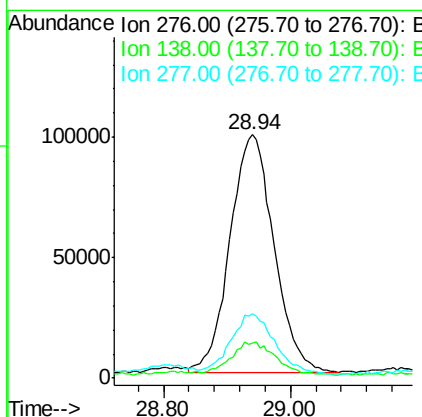
RT: 28.94 min Scan# 4366

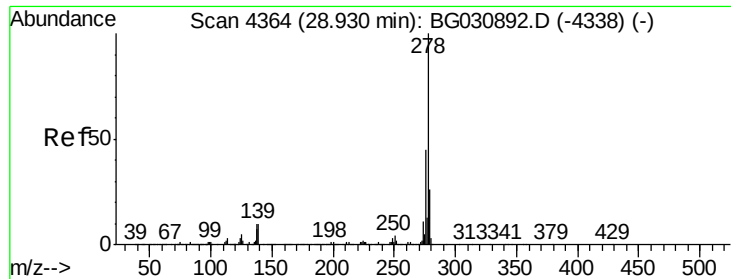
Delta R.T. 0.06 min

Lab File: BG030899.D

Acq: 10 Nov 2017 3:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 476500 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 14.2  | 13.4  | 20.0   |
| 277       | 26.4  | 18.6  | 28.0   |





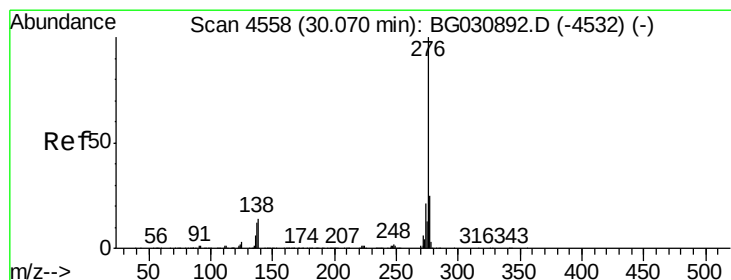
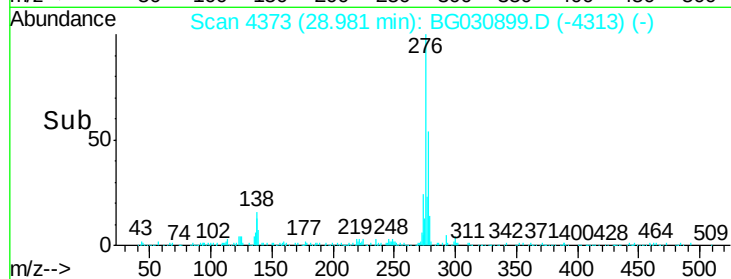
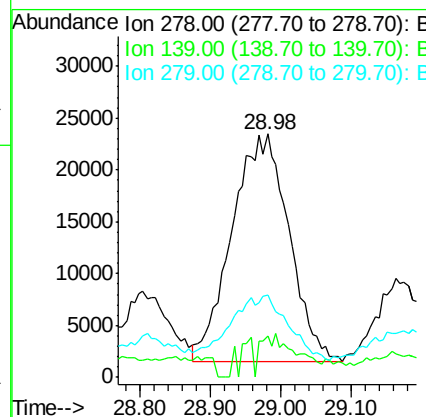
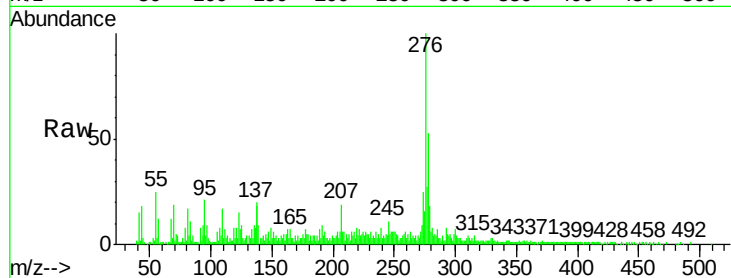
#90  
Dibenzo(a,h)anthracene  
Concen: 5.231 ng/ul  
RT: 28.98 min Scan# 4373  
Delta R.T. 0.05 min  
Lab File: BG030899.D  
Acq: 10 Nov 2017 3:05

Instrument :  
BNA\_G  
ClientSampleId :  
B0F74

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 16.8  | 9.4        | 14.2#      |
| 279     | 33.9  | 18.4       | 27.6#      |

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#91  
Benzo(g,h,i)perylene  
Concen: 18.003 ng/ul  
RT: 30.14 min Scan# 4571  
Delta R.T. 0.07 min  
Lab File: BG030899.D  
Acq: 10 Nov 2017 3:05

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 15.1  | 12.1       | 18.1       |
| 277     | 25.9  | 17.7       | 26.5       |

