

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG082317\  
 Data File : BG028449.D  
 Acq On : 23 Aug 2017 14:05  
 Operator : SJ/JU  
 Sample : I4827-09  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0AC2

Manual Integrations  
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Sohil  
 8/24/2017 4:38:30 PM

Quant Time: Aug 24 04:08:49 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 24 01:29:02 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.35  | 152  | 45734    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.16 | 136  | 201362   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.95 | 164  | 127394   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.71 | 188  | 277735m  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.04 | 240  | 325393   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.56 | 264  | 311940   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

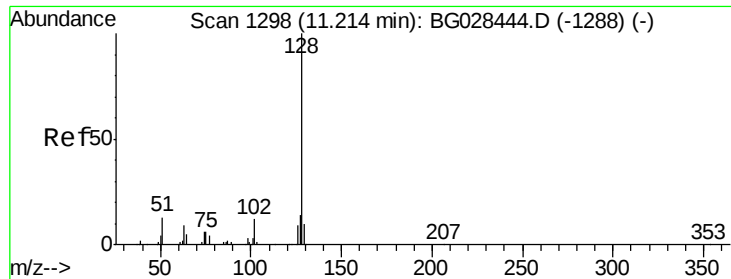
|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.83  | 96  | 1900   | 1.93  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.50  | 99  | 51362  | 10.23 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.66  | 67  | 33615  | 10.57 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.88  | 132 | 41452  | 13.08 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.04  | 113 | 41803  | 9.96  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.51  | 128 | 22792  | 14.48 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.24 | 143 | 25554  | 14.80 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.78 | 165 | 45841  | 12.83 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.30 | 131 | 20879  | 5.25  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.34 | 166 | 155301 | 13.71 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.65 | 160 | 175533 | 13.74 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.17 | 143 | 10557  | 5.86  | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.94 | 176 | 132494 | 13.03 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.07 | 200 | 9782m  | 5.42  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.80 | 188 | 199455 | 14.98 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.08 | 212 | 236954 | 14.20 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.32 | 264 | 224127 | 15.35 | ng/ul | 0.02 |

## Target Compounds

|                            |       |     |         |        | Qvalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene            | 11.21 | 128 | 12890   | 1.292  | ng/ul# | 96 |
| 44) Dimethylphthalate      | 14.39 | 163 | 69615   | 6.673  | ng/ul# | 96 |
| 49) Acenaphthene           | 15.02 | 153 | 24525   | 2.977  | ng/ul  | 99 |
| 53) Dibenzofuran           | 15.35 | 168 | 22202   | 1.849  | ng/ul  | 98 |
| 58) Fluorene               | 16.00 | 166 | 20992   | 1.974  | ng/ul  | 99 |
| 69) Phenanthrene           | 17.75 | 178 | 565322m | 40.446 | ng/ul  |    |
| 71) Anthracene             | 17.84 | 178 | 77513   | 5.426  | ng/ul  | 96 |
| 72) Carbazole              | 18.11 | 167 | 52734   | 4.245  | ng/ul  | 97 |
| 74) Fluoranthene           | 19.75 | 202 | 1039613 | 61.202 | ng/ul  | 99 |
| 77) Pyrene                 | 20.11 | 202 | 927276  | 47.765 | ng/ul  | 98 |
| 80) Benzo(a)anthracene     | 22.02 | 228 | 508188  | 27.030 | ng/ul  | 99 |
| 82) Chrysene               | 22.09 | 228 | 503343  | 29.727 | ng/ul  | 97 |
| 85) Benzo(b)fluoranthene   | 24.43 | 252 | 604516m | 32.384 | ng/ul  |    |
| 86) Benzo(k)fluoranthene   | 24.49 | 252 | 255994m | 14.040 | ng/ul  |    |
| 88) Benzo(a)pyrene         | 25.39 | 252 | 443348  | 24.530 | ng/ul  | 96 |
| 89) Indeno(1,2,3-cd)pyrene | 29.59 | 276 | 215305  | 10.173 | ng/ul# | 91 |
| 90) Dibenzo(a,h)anthracene | 29.65 | 278 | 55671m  | 3.138  | ng/ul  |    |
| 91) Benzo(g,h,i)perylene   | 30.86 | 276 | 176924  | 10.161 | ng/ul# | 93 |

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





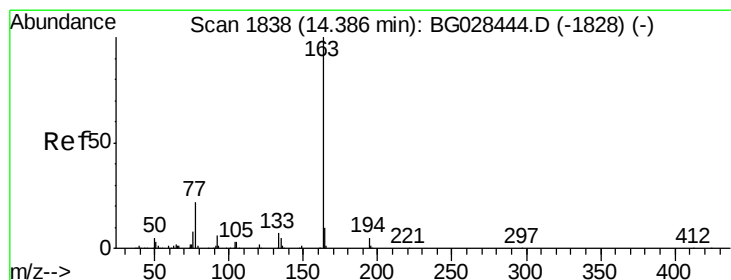
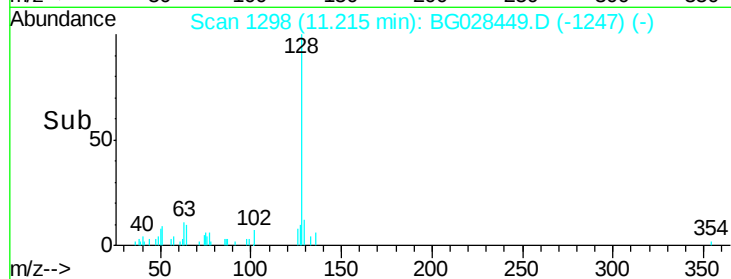
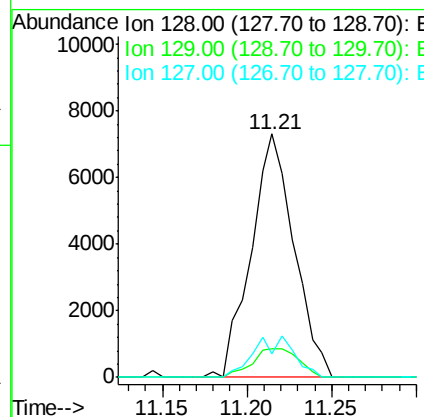
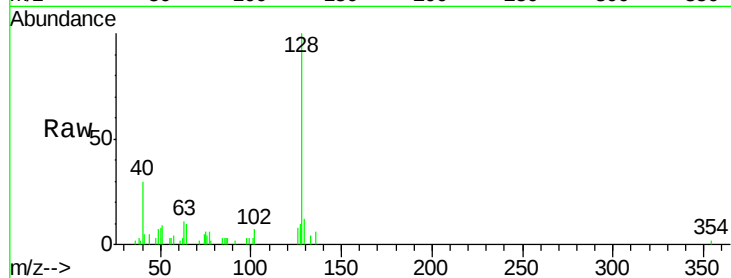
#28  
Naphthalene  
Concen: 1.292 ng/ul  
RT: 11.21 min Scan# 1298  
Delta R.T. 0.00 min  
Lab File: BG028449.D  
Acq: 23 Aug 2017 14:05

Instrument :  
BNA\_G  
ClientSampleId :  
B0AC2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.7  | 9.4   | 14.2  |
| 127     | 9.8   | 10.3  | 15.5# |

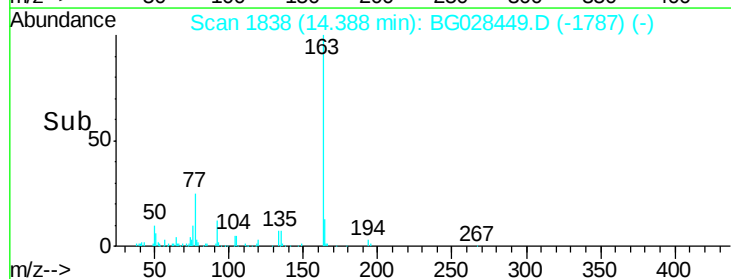
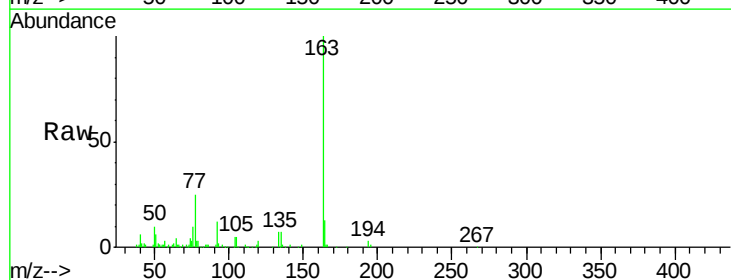
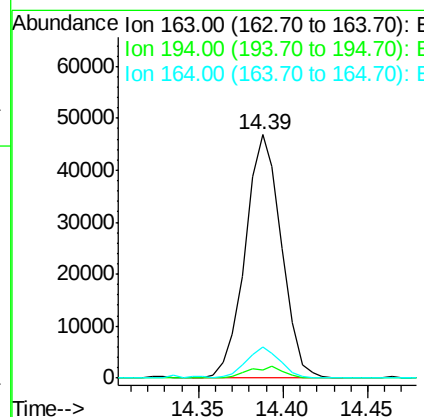
Manual Integrations  
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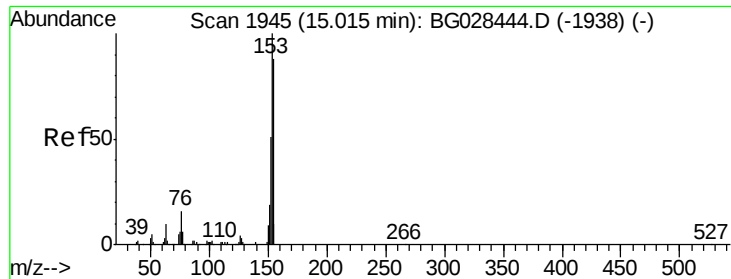
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8/24/2017 4:38:30 PM



#44  
Dimethylphthalate  
Concen: 6.673 ng/ul  
RT: 14.39 min Scan# 1838  
Delta R.T. 0.00 min  
Lab File: BG028449.D  
Acq: 23 Aug 2017 14:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 3.4   | 5.0#  |
| 164     | 13.0  | 9.0   | 13.4  |





#49

Acenaphthene

Concen: 2.977 ng/ul

RT: 15.02 min Scan# 1945

Delta R.T. 0.00 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

Instrument :

BNA\_G

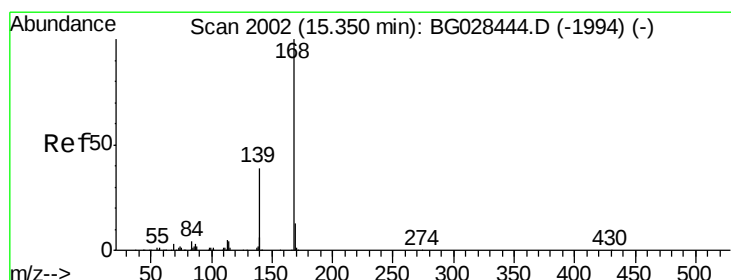
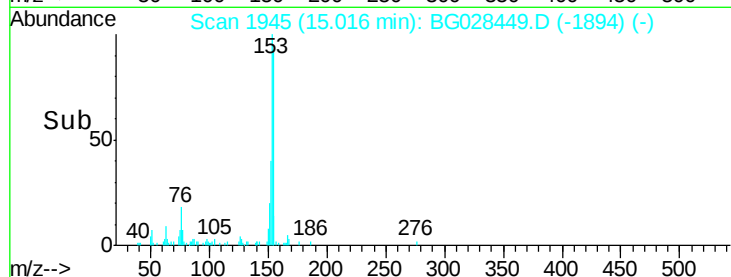
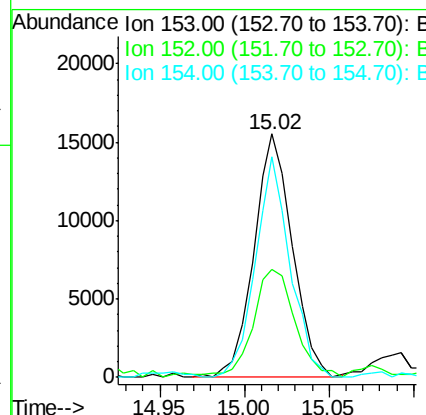
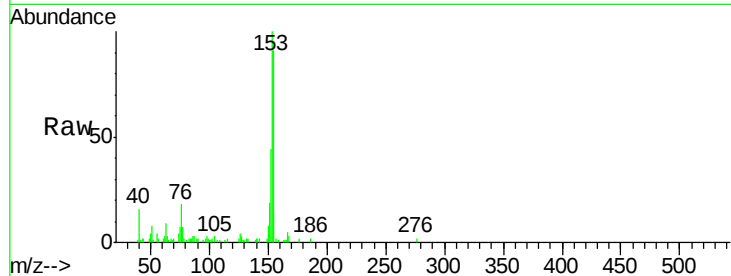
ClientSampleId :

B0AC2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 24525 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 44.2  | 36.5  | 54.7  |
| 154       | 90.7  | 72.3  | 108.5 |

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#53

Dibenzofuran

Concen: 1.849 ng/ul

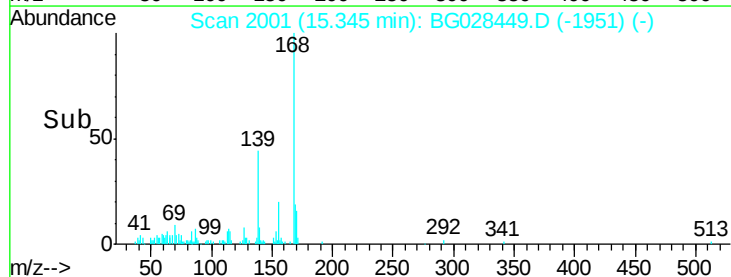
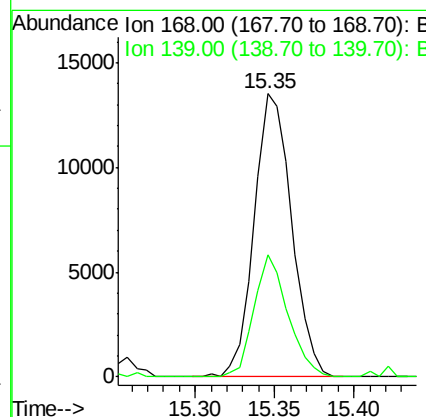
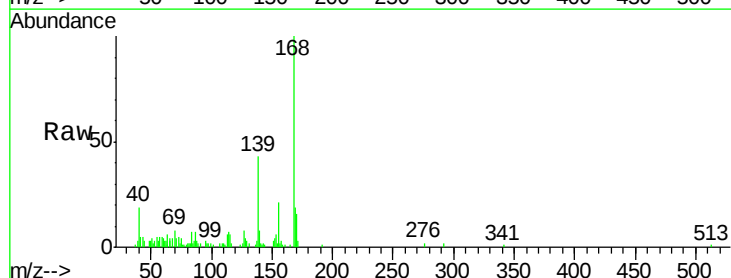
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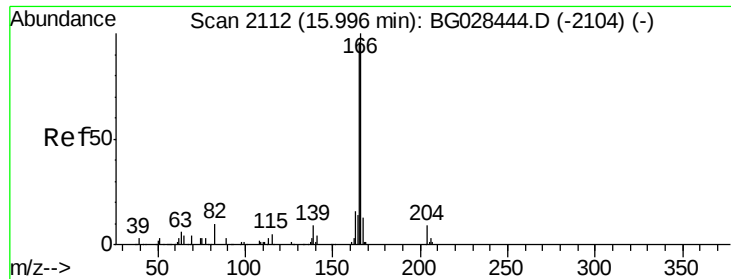
Delta R.T. -0.00 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 22202 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 43.3  | 33.8  | 50.8  |





#58

Fluorene

Concen: 1.974 ng/ul

RT: 16.00 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

Instrument :

BNA\_G

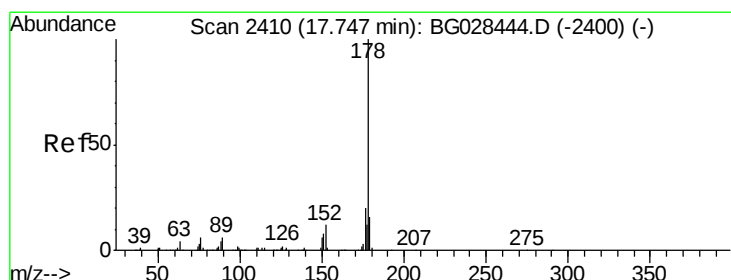
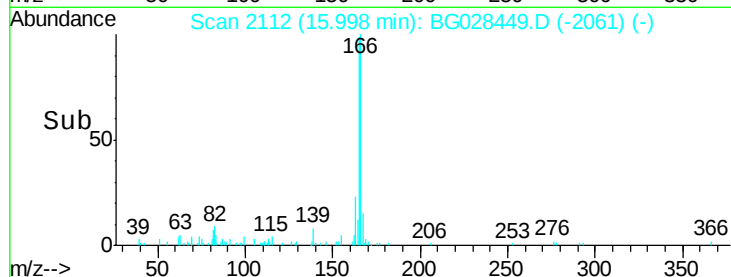
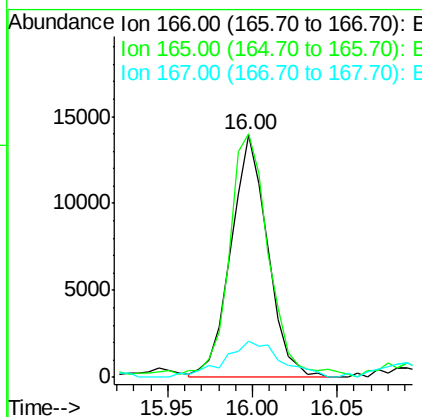
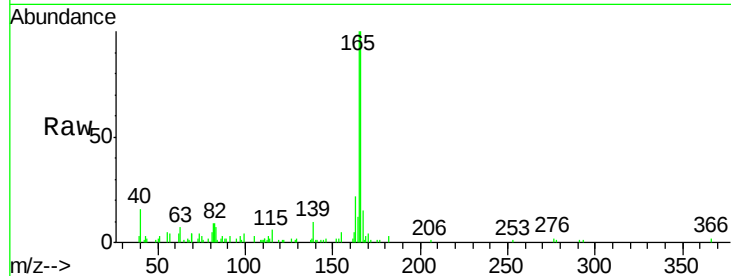
ClientSampleId :

B0AC2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 20992 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.2 | 79.7  | 119.5 |
| 167       | 14.8  | 11.4  | 17.2  |

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#69

Phenanthrene

Concen: 40.446 ng/ul m

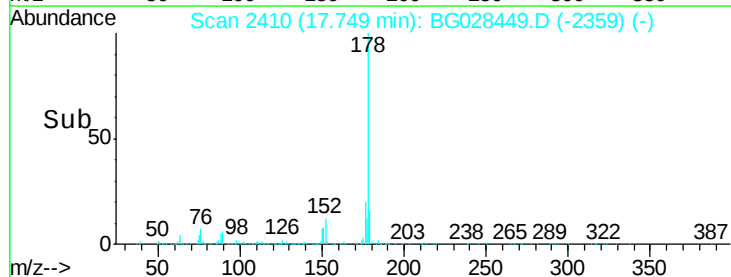
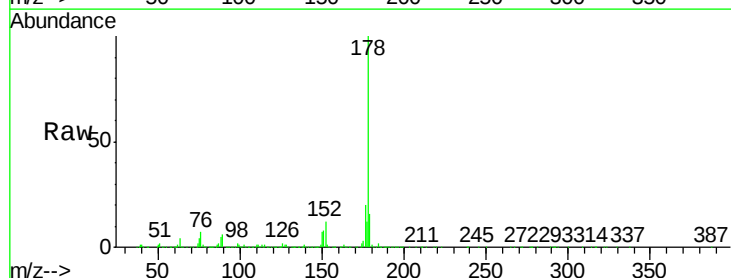
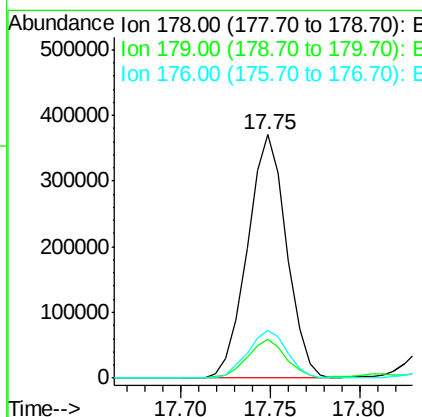
RT: 17.75 min Scan# 2410

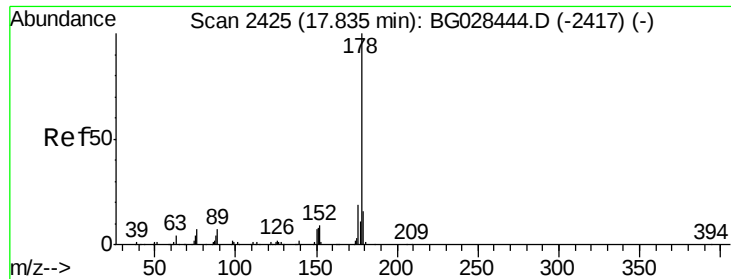
Delta R.T. 0.00 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 565322 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.0  | 12.4  | 18.6   |
| 176       | 19.8  | 16.5  | 24.7   |





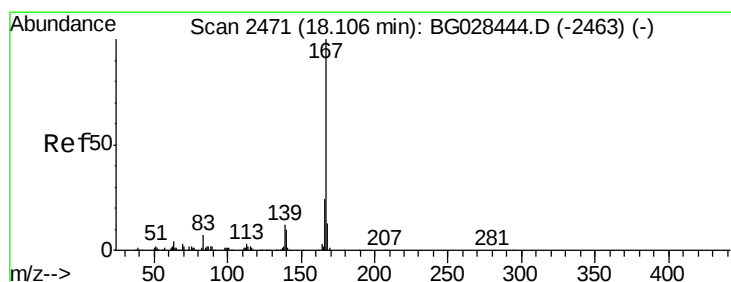
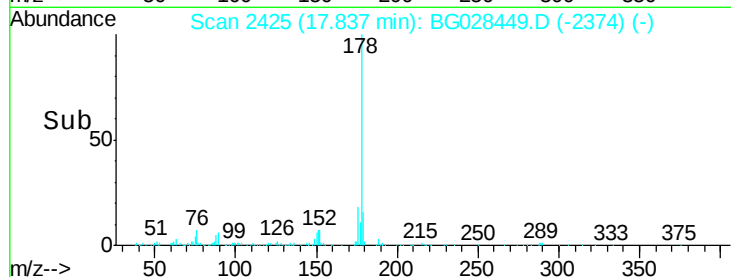
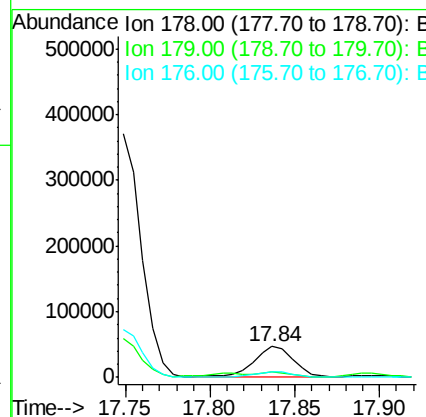
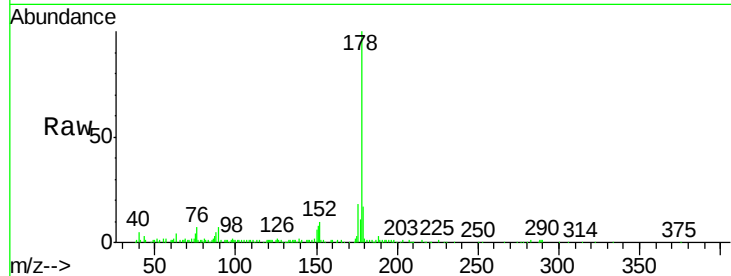
#71  
 Anthracene  
 Concen: 5.426 ng/ul  
 RT: 17.84 min Scan# 2425  
 Delta R.T. 0.00 min  
 Lab File: BG028449.D  
 Acq: 23 Aug 2017 14:05

Instrument :  
 BNA\_G  
 ClientSampled :  
 B0AC2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.3  | 12.6  | 19.0  |
| 176     | 17.9  | 15.9  | 23.9  |

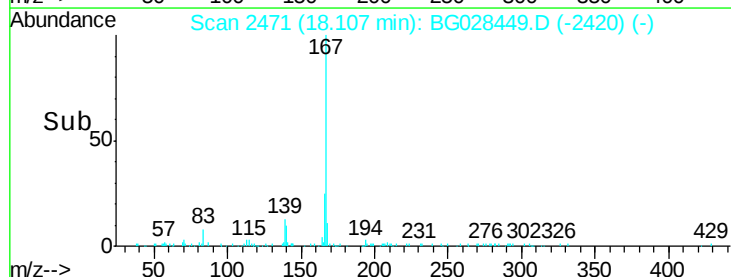
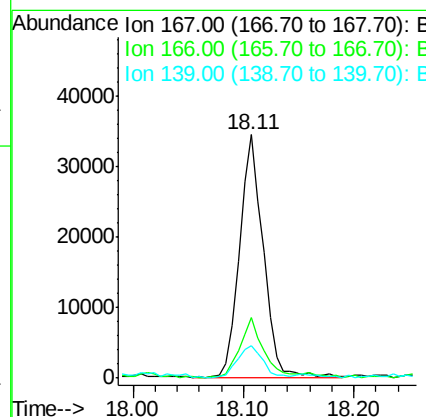
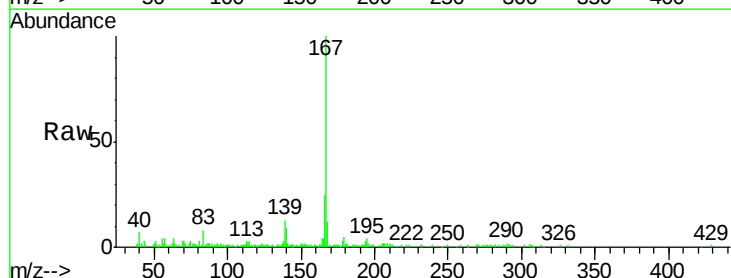
Manual Integrations  
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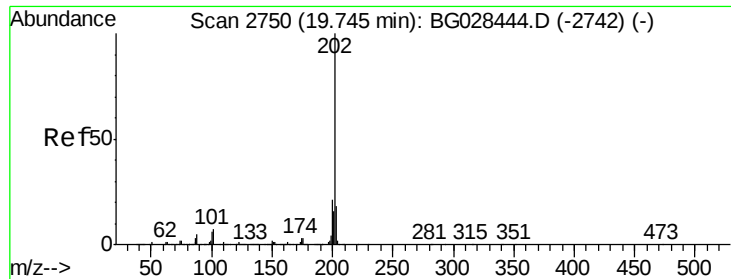
Sohil  
 8/24/2017 4:38:30 PM



#72  
 Carbazole  
 Concen: 4.245 ng/ul  
 RT: 18.11 min Scan# 2471  
 Delta R.T. 0.00 min  
 Lab File: BG028449.D  
 Acq: 23 Aug 2017 14:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 24.7  | 17.9  | 26.9  |
| 139     | 13.2  | 10.5  | 15.7  |





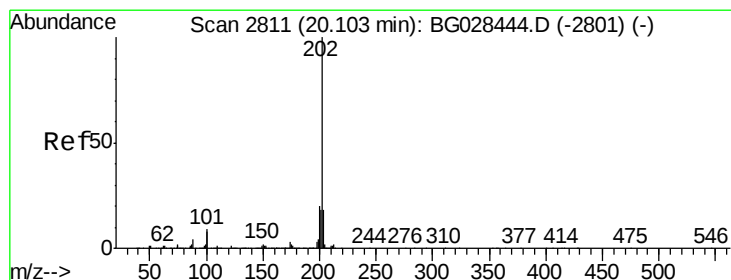
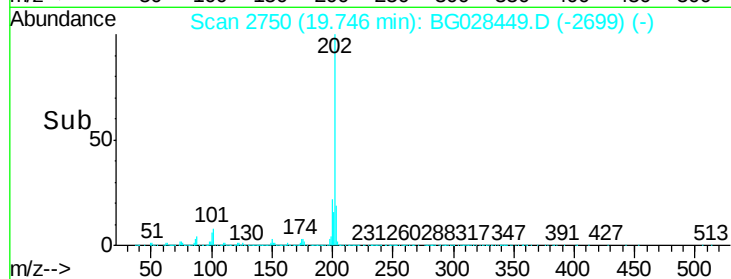
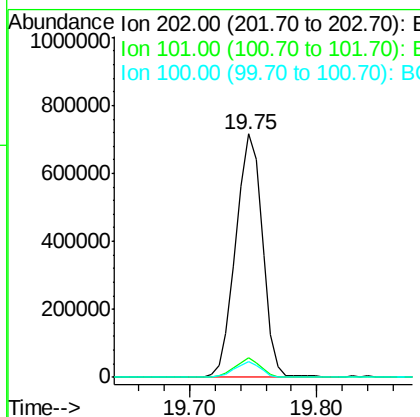
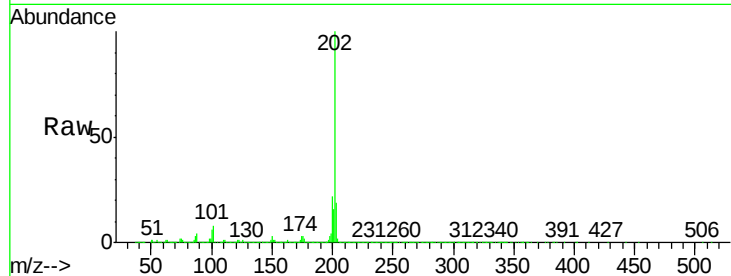
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 Fluoranthene  
 Concen: 61.202 ng/ul  
 RT: 19.75 min Scan# 2750  
 Delta R.T. 0.00 min  
 Lab File: BG028449.D  
 Acq: 23 Aug 2017 14:05

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0AC2

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 1039613 |       |       |
| 101     | 8.1   | 6.2     | 9.2   |       |
| 100     | 6.3   | 5.2     | 7.8   |       |

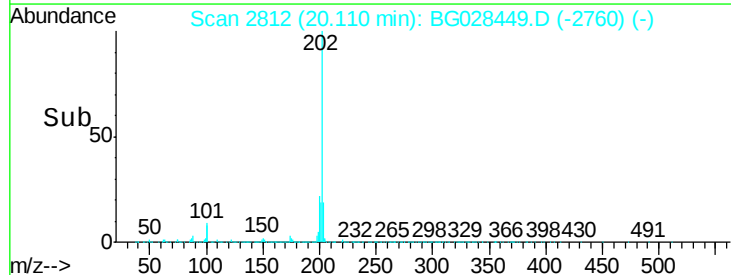
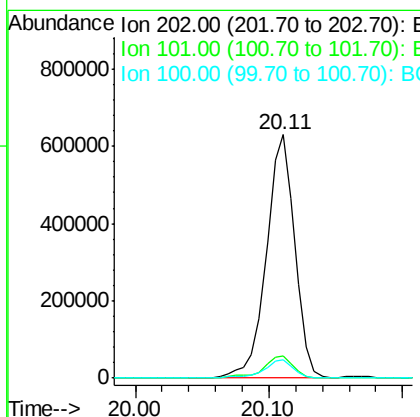
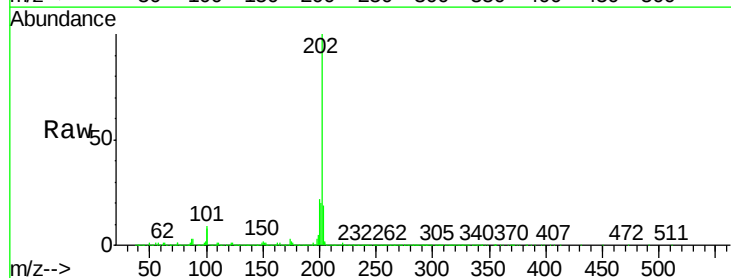
Manual Integrations  
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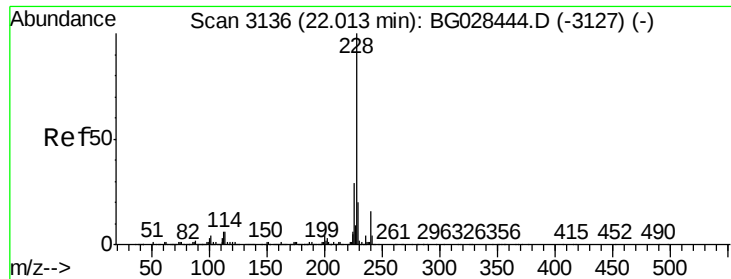
Sohil  
 8/24/2017 4:38:30 PM



#77  
 Pyrene  
 Concen: 47.765 ng/ul  
 RT: 20.11 min Scan# 2812  
 Delta R.T. 0.01 min  
 Lab File: BG028449.D  
 Acq: 23 Aug 2017 14:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 927276 |       |       |
| 101     | 9.1   | 6.9    | 10.3  |       |
| 100     | 7.7   | 6.6    | 10.0  |       |





#80

Benzo(a)anthracene

Concen: 27.030 ng/ul

RT: 22.02 min Scan# 3137

Delta R.T. 0.01 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

Instrument :

BNA\_G

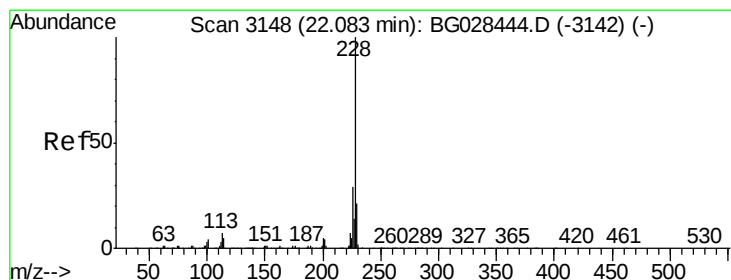
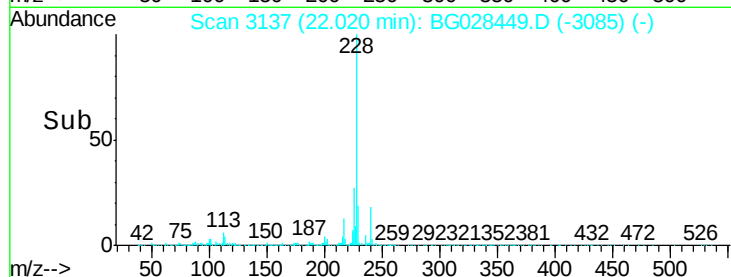
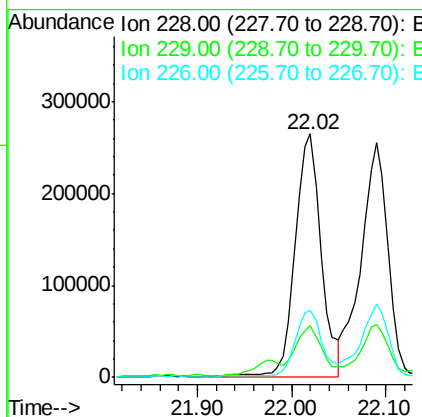
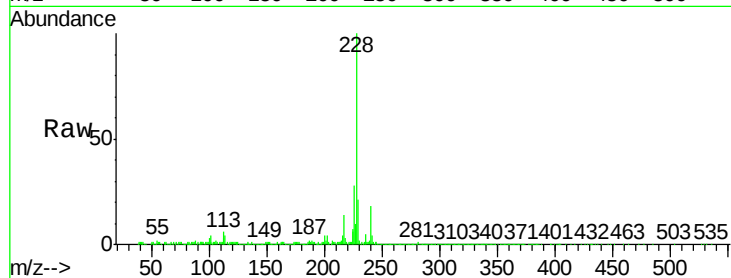
ClientSampleId :

B0AC2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 508188 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.3  | 16.3  | 24.5   |
| 226       | 27.5  | 21.9  | 32.9   |

Manual Integrations  
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#82

Chrysene

Concen: 29.727 ng/ul

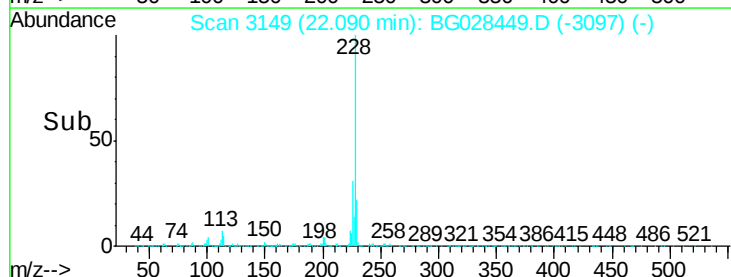
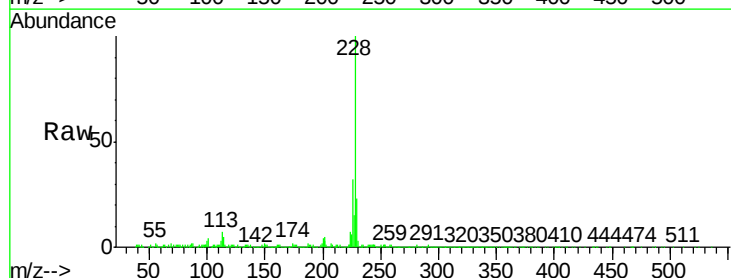
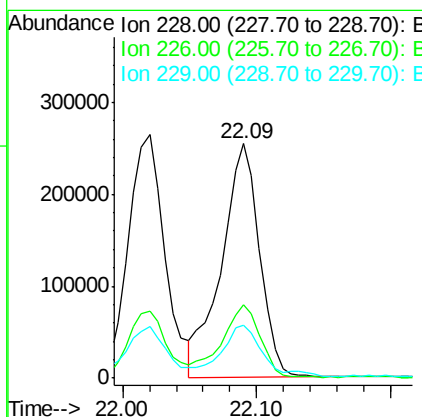
RT: 22.09 min Scan# 3149

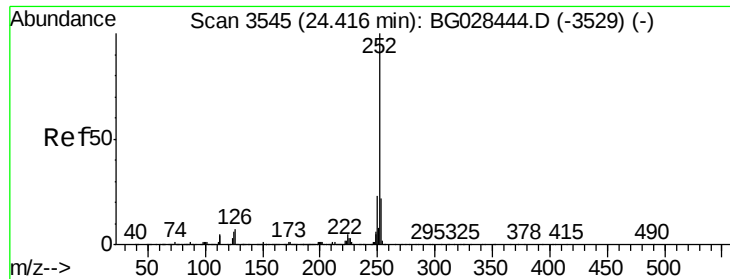
Delta R.T. 0.01 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 503343 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.6  | 24.0  | 36.0   |
| 229       | 22.8  | 16.9  | 25.3   |





#85

Benzo(b)fluoranthene

Concen: 32.384 ng/ul m

RT: 24.43 min Scan# 3548

Delta R.T. 0.02 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

Instrument :

BNA\_G

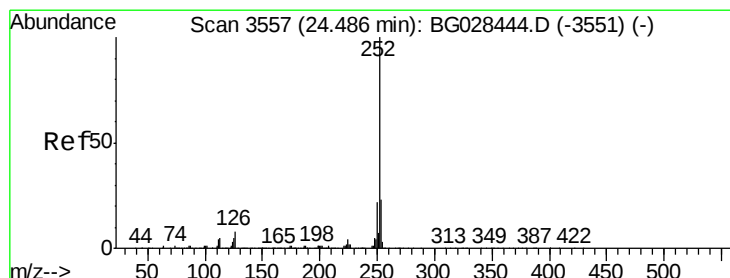
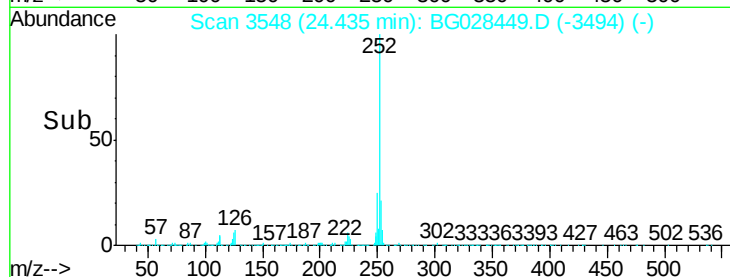
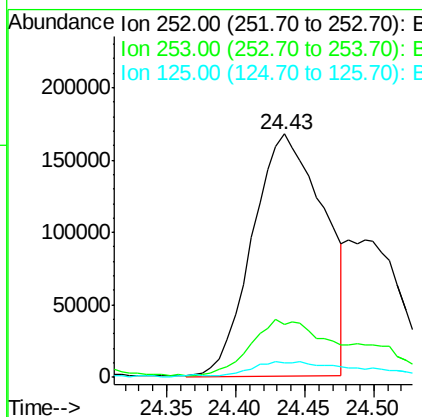
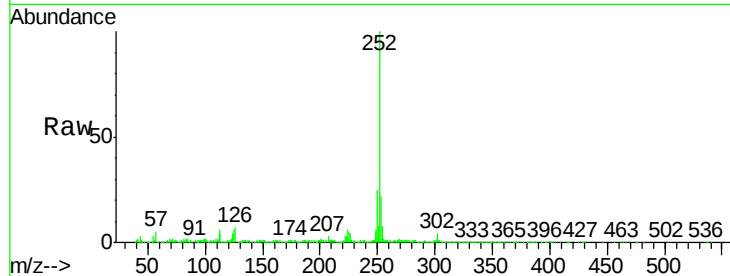
ClientSampled :

B0AC2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 604516 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.7  | 17.7  | 26.5   |
| 125       | 6.1   | 4.0   | 6.0#   |

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#86

Benzo(k)fluoranthene

Concen: 14.040 ng/ul m

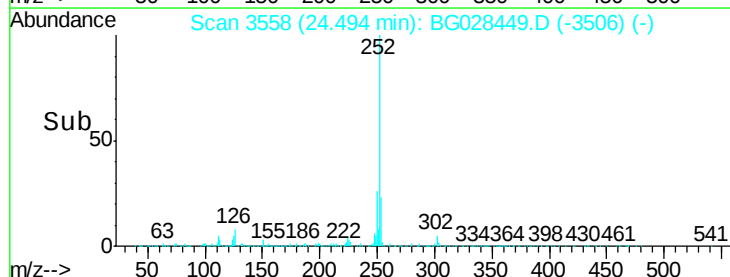
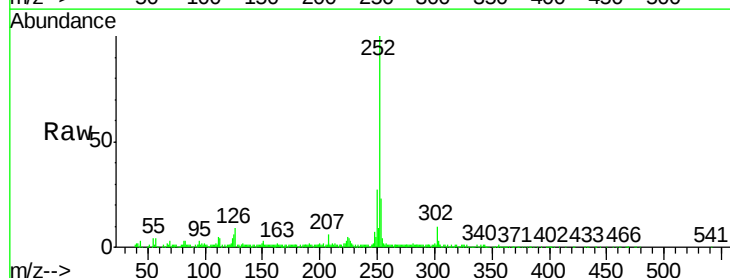
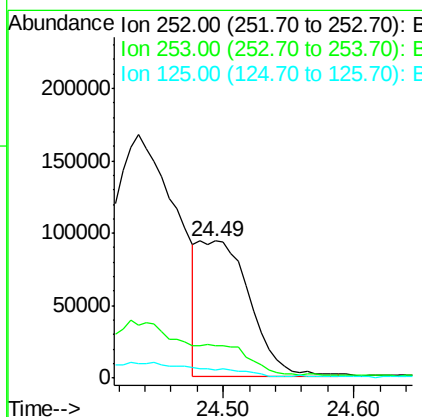
RT: 24.49 min Scan# 3558

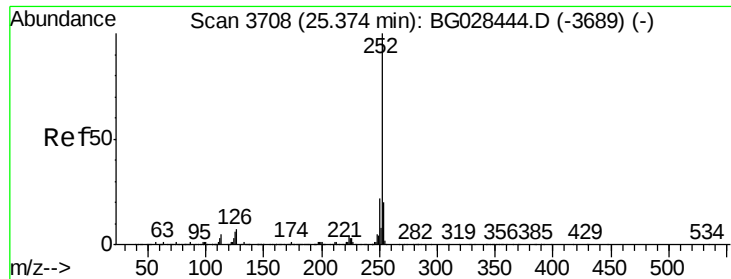
Delta R.T. 0.01 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 255994 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.4  | 18.5  | 27.7   |
| 125       | 6.2   | 4.1   | 6.1#   |





#88

Benzo(a)pyrene

Concen: 24.530 ng/ul

RT: 25.39 min Scan# 3711

Delta R.T. 0.02 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

Instrument :

BNA\_G

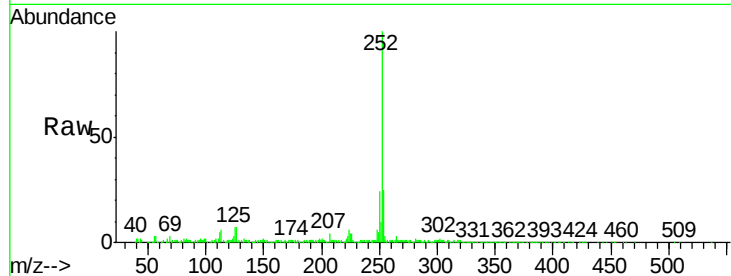
ClientSampleId :

B0AC2

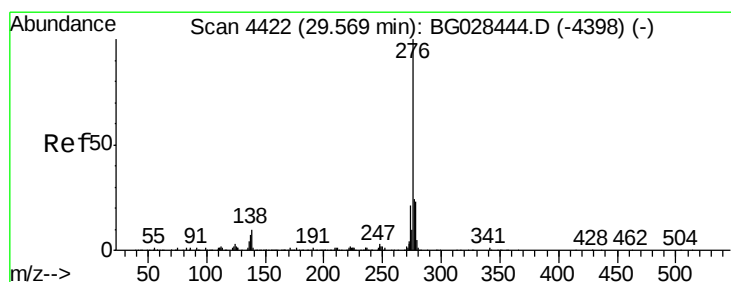
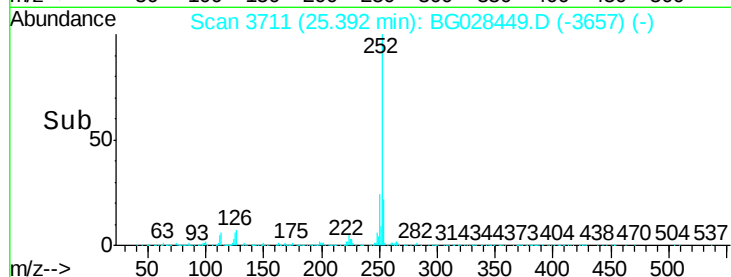
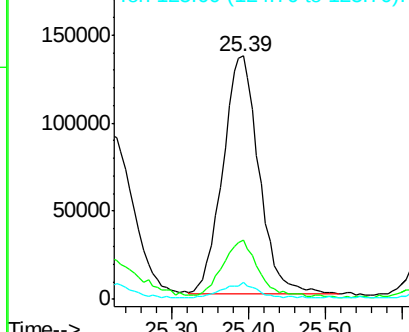
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 443348 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.5  | 17.8  | 26.6   |
| 125       | 7.1   | 5.4   | 8.0    |

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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



#89

Indeno(1,2,3-cd)pyrene

Concen: 10.173 ng/ul

RT: 29.59 min Scan# 4425

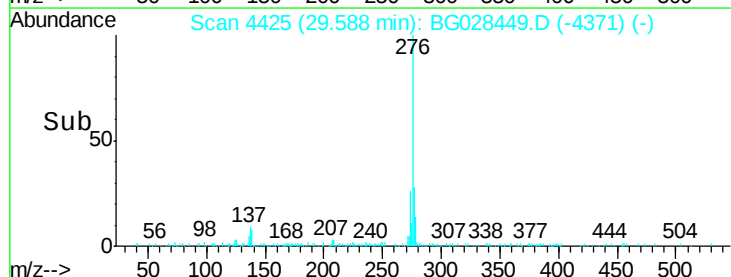
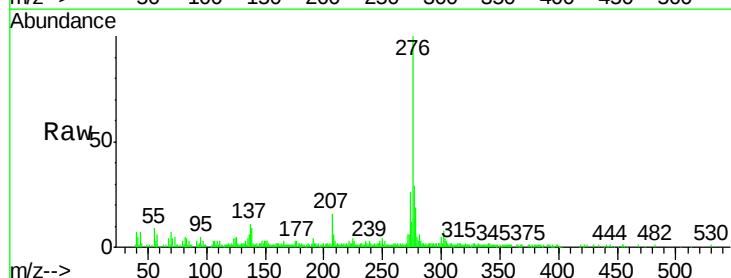
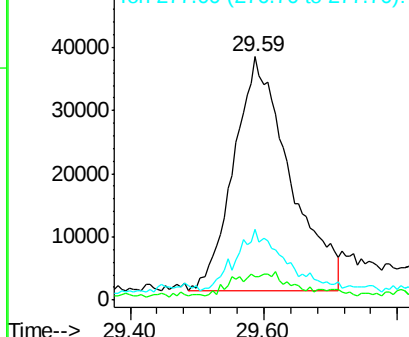
Delta R.T. 0.02 min

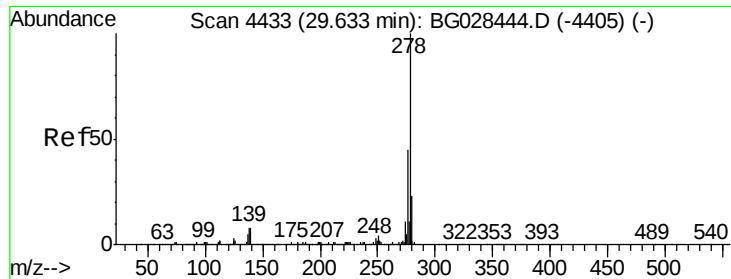
Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 215305 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 9.5   | 8.2   | 12.4   |
| 277       | 29.2  | 18.6  | 28.0#  |

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





#90

Dibenzo(a,h)anthracene

Concen: 3.138 ng/ul m

RT: 29.65 min Scan# 4436

Delta R.T. 0.02 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

Instrument :

BNA\_G

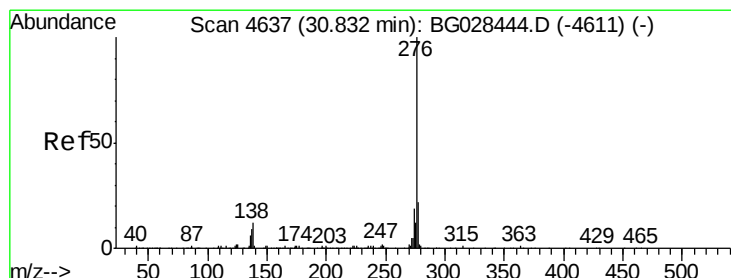
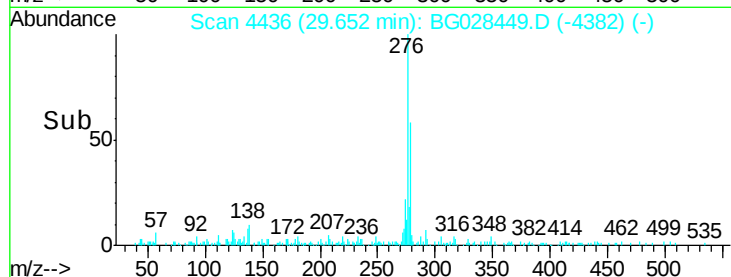
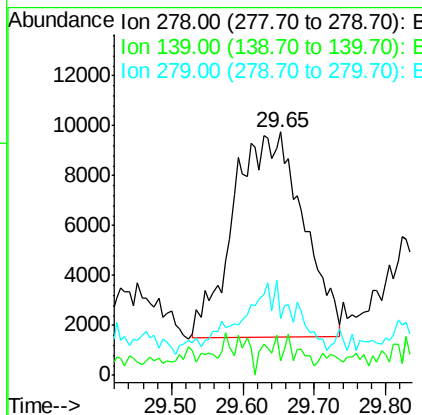
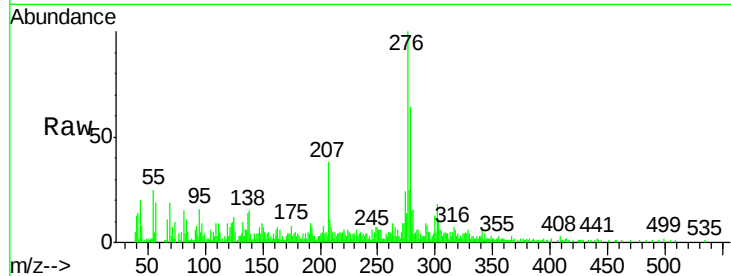
ClientSampleId :

B0AC2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 55671 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 5.9   | 6.7   | 10.1# |
| 279       | 23.6  | 20.9  | 31.3  |

Manual Integrations  
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#91

Benzo(g,h,i)perylene

Concen: 10.161 ng/ul

RT: 30.86 min Scan# 4642

Delta R.T. 0.03 min

Lab File: BG028449.D

Acq: 23 Aug 2017 14:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 176924 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 11.6  | 8.6   | 12.8   |
| 277       | 26.4  | 17.6  | 26.4#  |

