

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110817\  
 Data File : BG030865.D  
 Acq On : 9 Nov 2017 3:14  
 Operator : SJ/JU  
 Sample : I6245-12  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0F06

Quant Time: Nov 09 07:40:58 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 09 07:08:58 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 64163    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.96 | 136  | 303289   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.77 | 164  | 192653   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.51 | 188  | 452516   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.78 | 240  | 495663   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.10 | 264  | 519459   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.53  | 96  | 5895   | 3.73  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.31  | 99  | 130166 | 21.14 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.47  | 67  | 79369  | 20.60 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.68  | 132 | 111931 | 25.76 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.86  | 113 | 98138  | 19.73 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.32  | 128 | 56578  | 25.99 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.04 | 143 | 69898  | 31.33 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.59 | 165 | 125608 | 24.71 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.10 | 131 | 86115  | 14.58 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.16 | 166 | 395111 | 23.99 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.46 | 160 | 498637 | 24.89 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.97 | 143 | 56556  | 18.60 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.76 | 176 | 367921 | 27.27 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.88 | 200 | 49437  | 22.38 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.61 | 188 | 572248 | 26.74 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.88 | 212 | 650382 | 25.35 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.87 | 264 | 673346 | 27.37 | ng/ul | 0.02 |

## Target Compounds

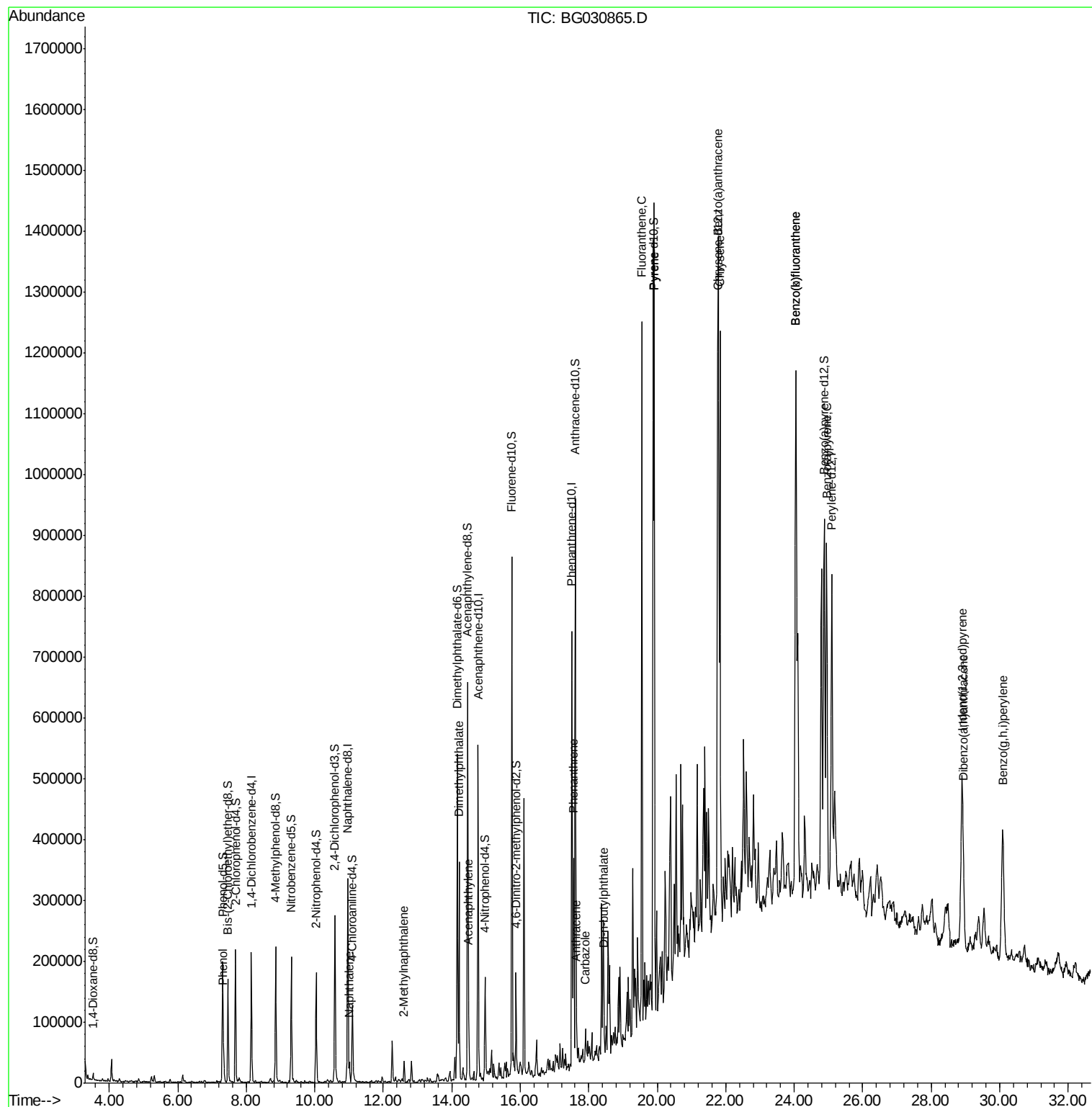
|                            |       |     |         |       |        | Ovalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 6) Phenol                  | 7.34  | 94  | 26749   | 4.20  | ng/ul  | 93     |
| 28) Naphthalene            | 11.01 | 128 | 27604   | 1.72  | ng/ul  | 98     |
| 34) 2-Methylnaphthalene    | 12.61 | 142 | 18437   | 1.39  | ng/ul  | 96     |
| 44) Dimethylphthalate      | 14.21 | 163 | 253461  | 15.78 | ng/ul  | 100    |
| 47) Acenaphthylene         | 14.49 | 152 | 90655   | 4.44  | ng/ul  | 97     |
| 69) Phenanthrene           | 17.55 | 178 | 225147  | 9.20  | ng/ul  | 98     |
| 71) Anthracene             | 17.64 | 178 | 64983   | 2.57  | ng/ul  | 100    |
| 72) Carbazole              | 17.91 | 167 | 33842   | 1.49  | ng/ul  | 97     |
| 73) Di-n-butylphthalate    | 18.45 | 149 | 32347   | 1.19  | ng/ul# | 95     |
| 74) Fluoranthene           | 19.55 | 202 | 720047  | 26.34 | ng/ul  | 99     |
| 77) Pyrene                 | 19.91 | 202 | 826123  | 24.87 | ng/ul  | 98     |
| 80) Benzo(a)anthracene     | 21.76 | 228 | 563586  | 18.14 | ng/ul  | 95     |
| 82) Chrysene               | 21.83 | 228 | 754461  | 26.73 | ng/ul  | 96     |
| 85) Benzo(b)fluoranthene   | 24.05 | 252 | 1148365 | 36.82 | ng/ul  | 95     |
| 86) Benzo(k)fluoranthene   | 24.05 | 252 | 1148365 | 38.09 | ng/ul  | 95     |
| 88) Benzo(a)pyrene         | 24.95 | 252 | 660076  | 21.74 | ng/ul  | 97     |
| 89) Indeno(1,2,3-cd)pyrene | 28.90 | 276 | 520298  | 15.15 | ng/ul  | 99     |
| 90) Dibenzo(a,h)anthracene | 28.93 | 278 | 145270  | 5.09  | ng/ul# | 89     |
| 91) Benzo(g,h,i)perylene   | 30.09 | 276 | 452512  | 15.90 | ng/ul  | 95     |

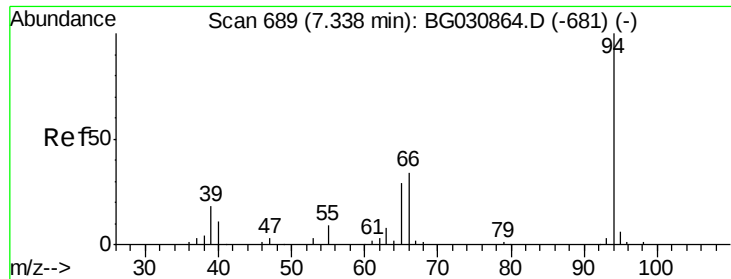
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 09 07:08:58 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 4.20 ng/ul

RT: 7.34 min Scan# 689

Delta R.T. -0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

Instrument :

BNA\_G

ClientSampleId :

B0F06

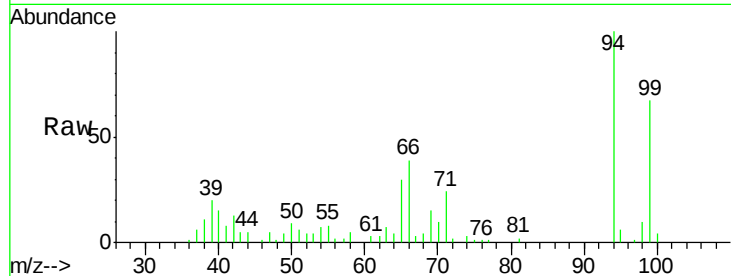
Tot Ion: 94 Resp: 26749

Ion Ratio Lower Upper

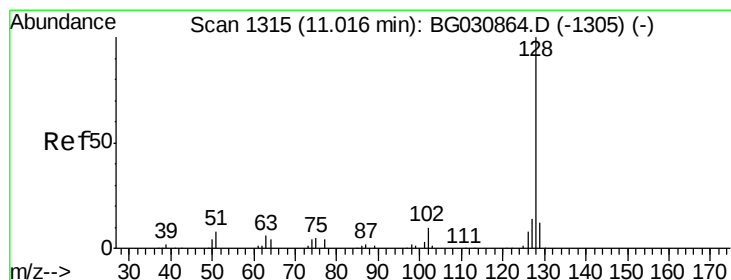
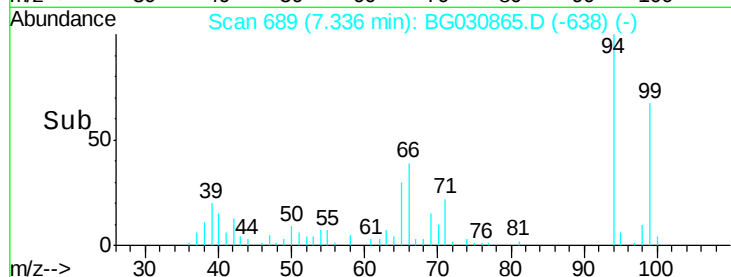
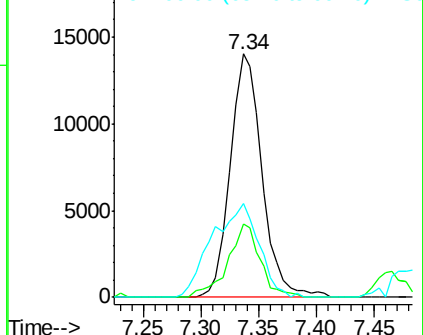
94 100

65 29.9 27.1 40.7

66 38.5 34.6 52.0



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



#28

Naphthalene

Concen: 1.72 ng/ul

RT: 11.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

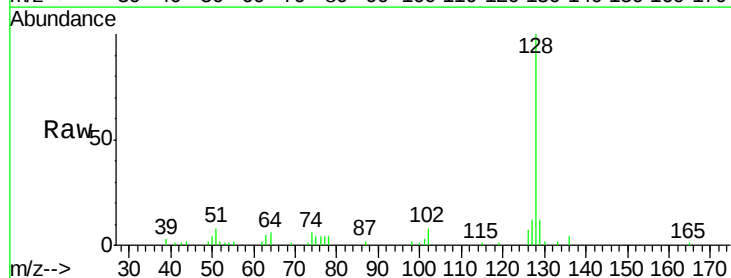
Tgt Ion: 128 Resp: 27604

Ion Ratio Lower Upper

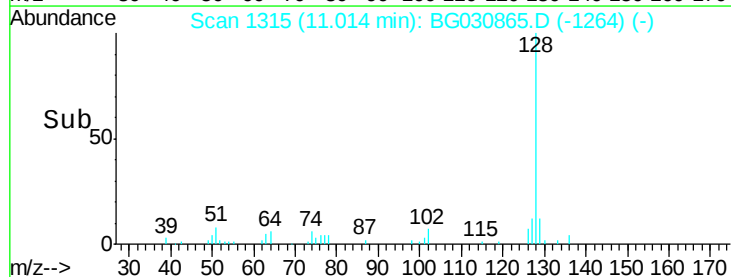
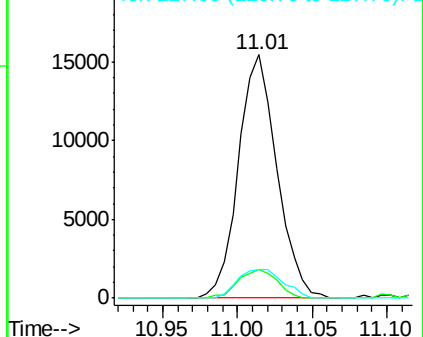
128 100

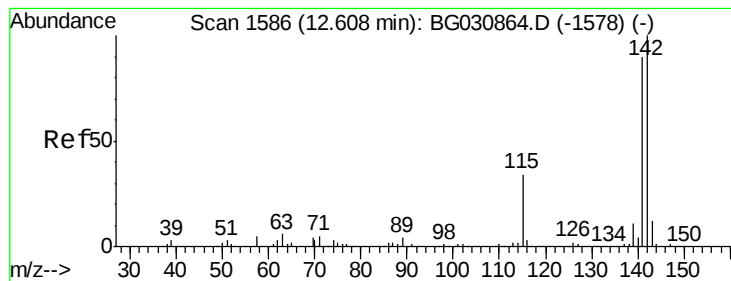
129 12.0 9.3 13.9

127 12.0 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E





#34

2-Methylnaphthalene

Concen: 1.39 ng/ul

RT: 12.61 min Scan# 1586

Delta R.T. -0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

Instrument :

BNA\_G

ClientSampleId :

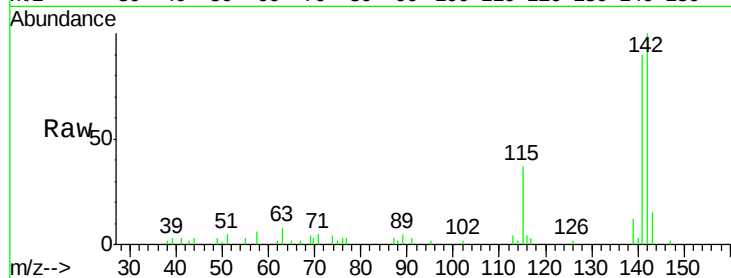
B0F06

Tot Ion:142 Resp: 18437

Ion Ratio Lower Upper

142 100

141 90.3 75.4 113.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.61

10000

8000

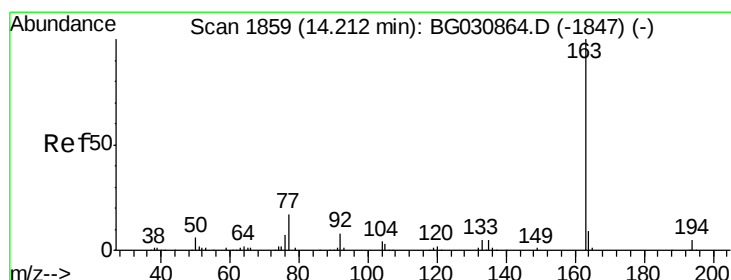
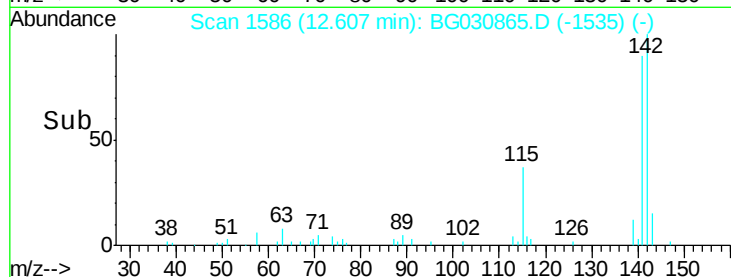
6000

4000

2000

0

Time-->



#44

Dimethylphthalate

Concen: 15.78 ng/ul

RT: 14.21 min Scan# 1859

Delta R.T. -0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

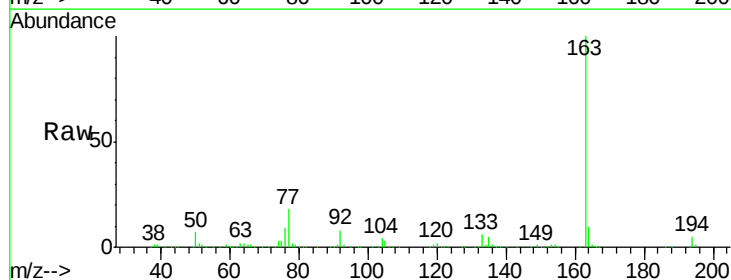
Tgt Ion:163 Resp: 253461

Ion Ratio Lower Upper

163 100

194 4.6 3.5 5.3

164 9.6 7.6 11.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

14.21

200000

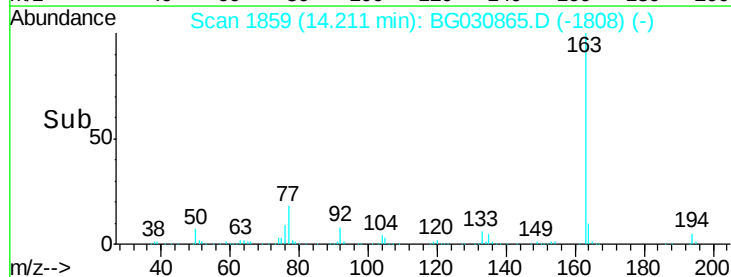
150000

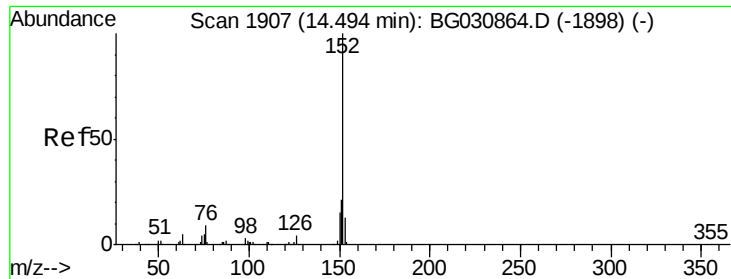
100000

50000

0

Time-->





#47

Acenaphthylene

Concen: 4.44 ng/ul

RT: 14.49 min Scan# 1907

Delta R.T. -0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

Instrument :

BNA\_G

ClientSampleId :

B0F06

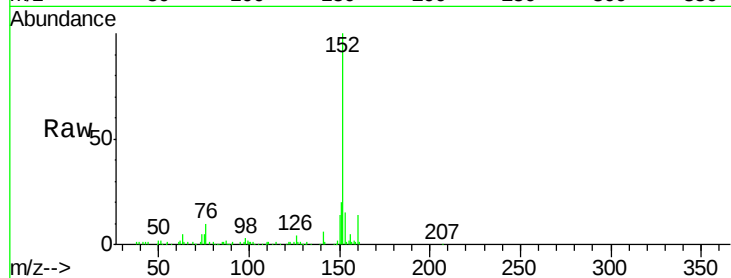
Tot Ion:152 Resp: 90655

Ion Ratio Lower Upper

152 100

151 20.0 15.2 22.8

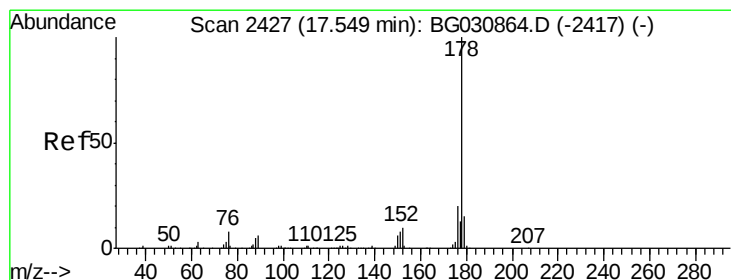
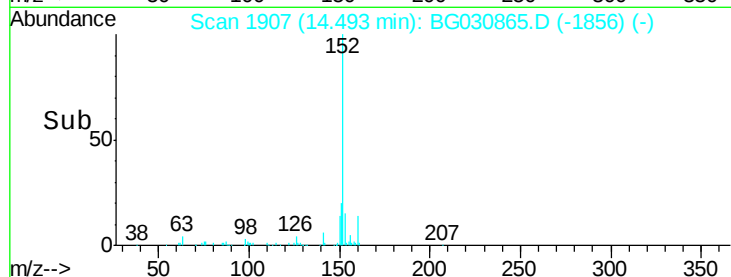
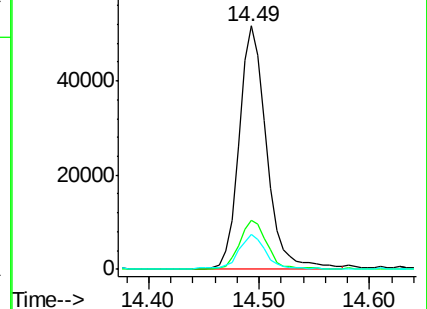
153 14.6 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#69

Phenanthrene

Concen: 9.20 ng/ul

RT: 17.55 min Scan# 2427

Delta R.T. -0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

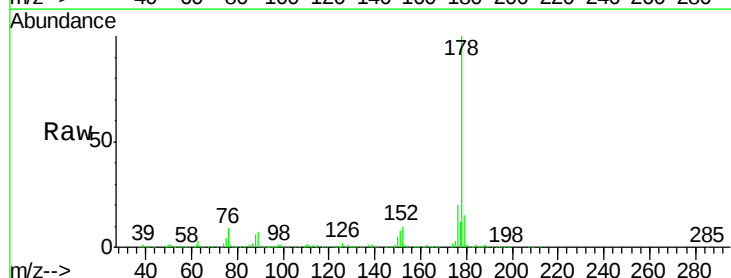
Tgt Ion:178 Resp: 225147

Ion Ratio Lower Upper

178 100

179 15.0 13.0 19.6

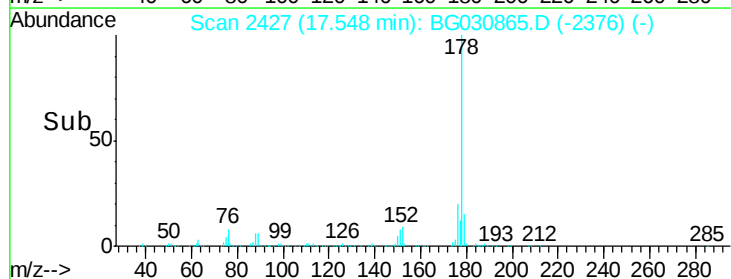
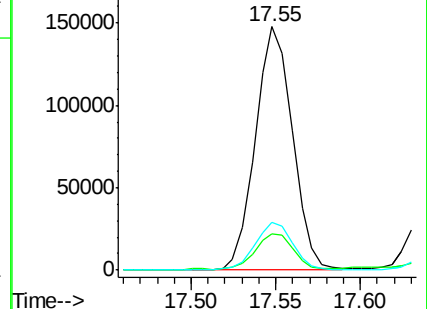
176 19.5 15.3 22.9

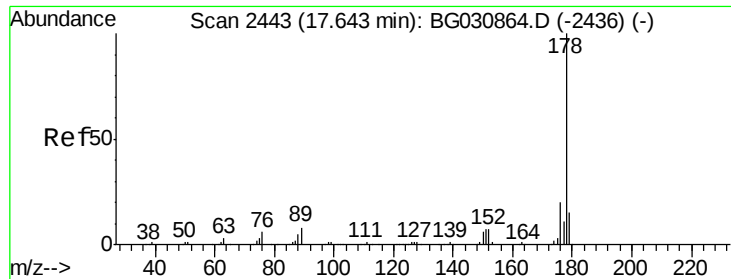


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

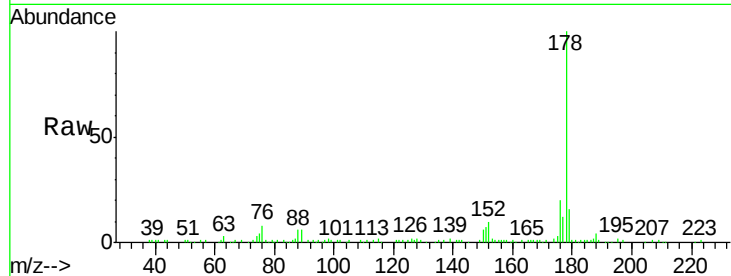




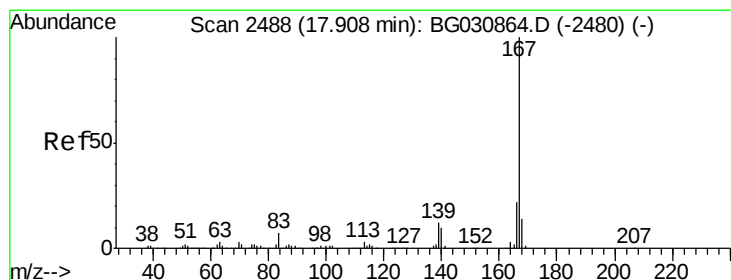
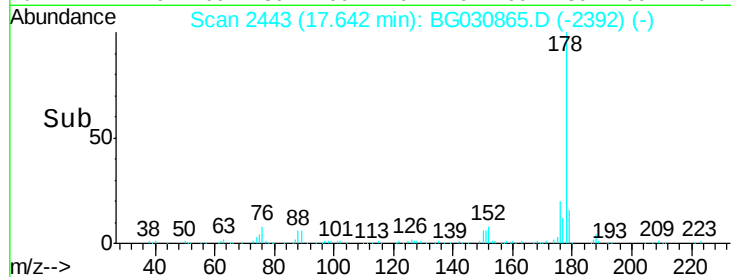
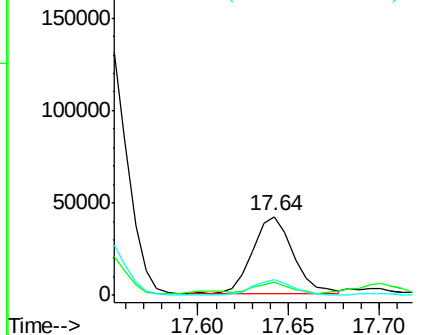
#71  
 Anthracene  
 Concen: 2.57 ng/ul  
 RT: 17.64 min Scan# 2443  
 Delta R.T. -0.00 min  
 Lab File: BG030865.D  
 Acq: 9 Nov 2017 3:14

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0F06

Tot Ion:178 Resp: 64983  
 Ion Ratio Lower Upper  
 178 100  
 179 16.3 13.2 19.8  
 176 20.1 16.0 24.0

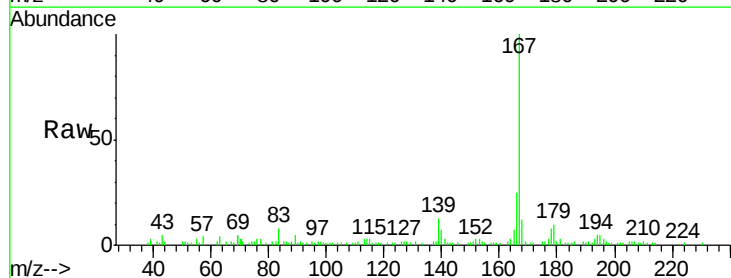


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E

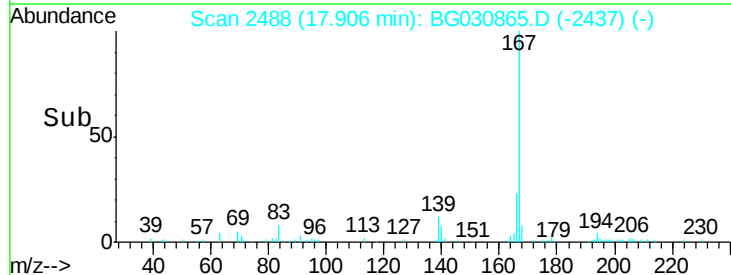
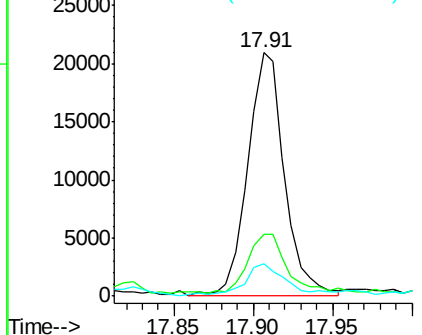


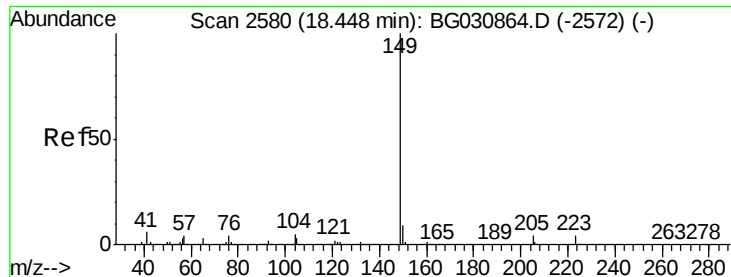
#72  
 Carbazole  
 Concen: 1.49 ng/ul  
 RT: 17.91 min Scan# 2488  
 Delta R.T. -0.00 min  
 Lab File: BG030865.D  
 Acq: 9 Nov 2017 3:14

Tgt Ion:167 Resp: 33842  
 Ion Ratio Lower Upper  
 167 100  
 166 25.4 18.6 28.0  
 139 13.3 10.6 16.0



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

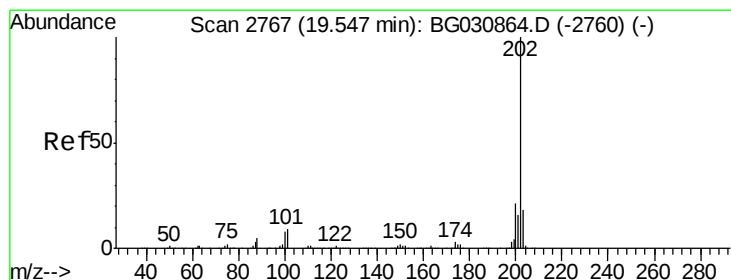
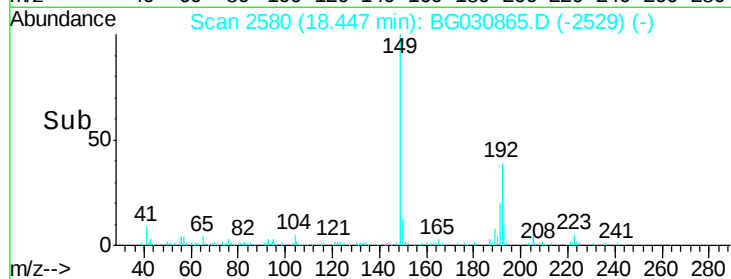
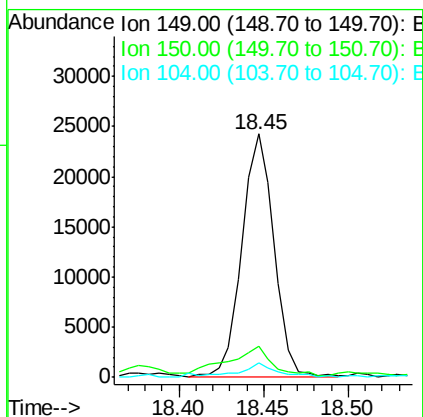
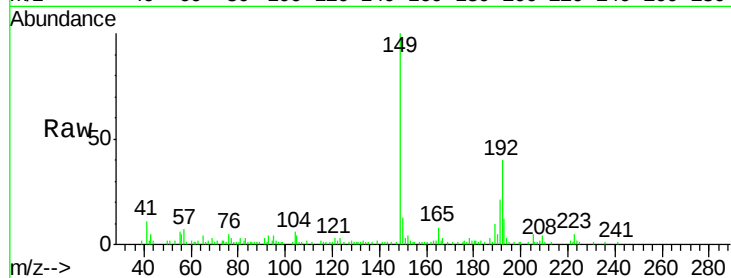




#73  
Di-n-butylphthalate  
Concen: 1.19 ng/ul  
RT: 18.45 min Scan# 2580  
Delta R.T. -0.00 min  
Lab File: BG030865.D  
Acq: 9 Nov 2017 3:14

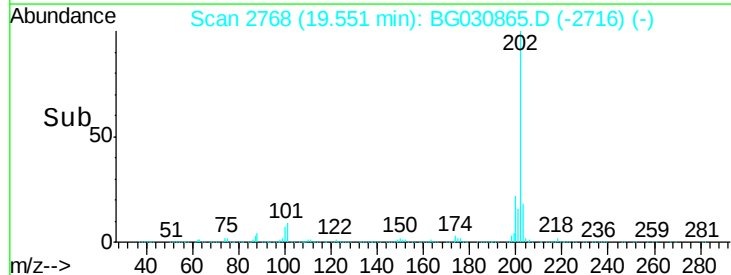
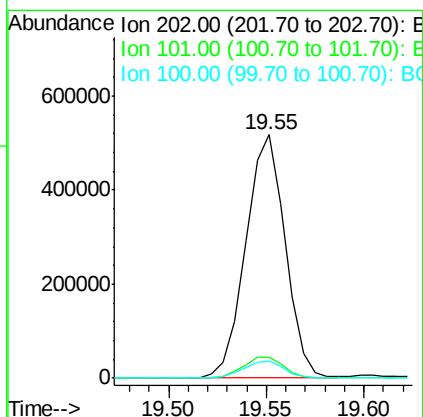
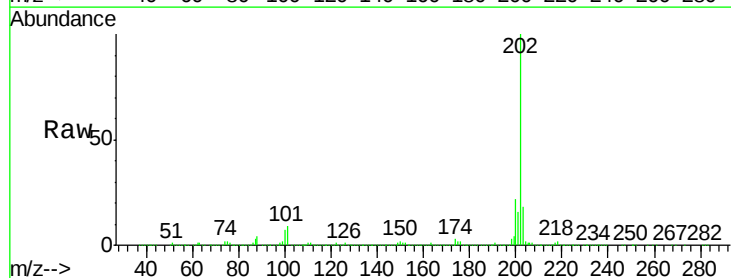
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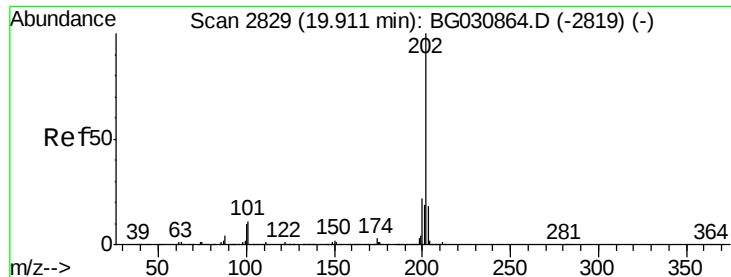
Tot Ion:149 Resp: 32347  
Ion Ratio Lower Upper  
149 100  
150 12.6 7.5 11.3#  
104 5.8 4.6 7.0



#74  
Fluoranthene  
Concen: 26.34 ng/ul  
RT: 19.55 min Scan# 2768  
Delta R.T. 0.00 min  
Lab File: BG030865.D  
Acq: 9 Nov 2017 3:14

Tgt Ion:202 Resp: 720047  
Ion Ratio Lower Upper  
202 100  
101 8.7 7.4 11.2  
100 7.0 5.6 8.4

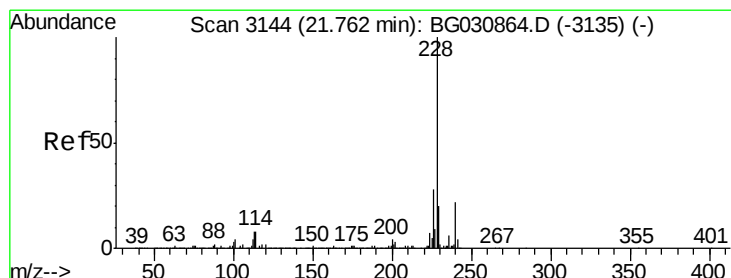
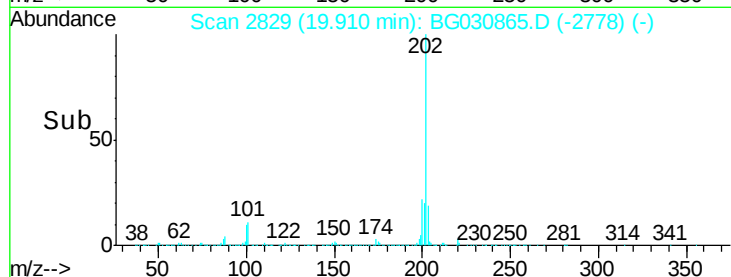
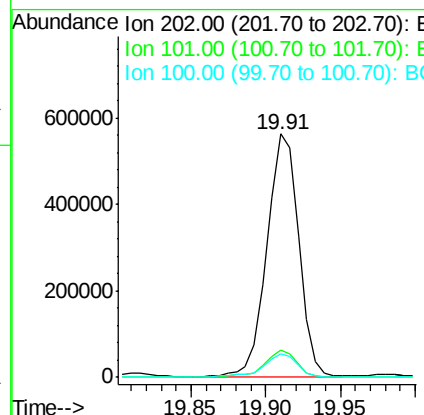
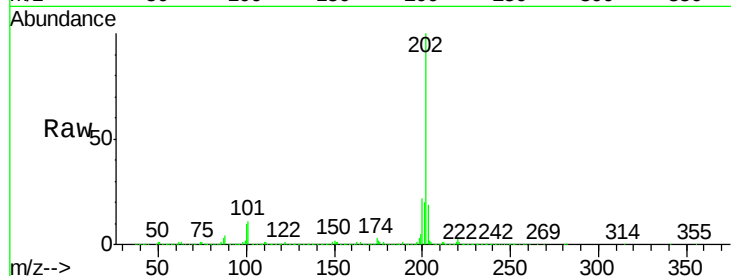




#77  
 Pvrene  
 Concen: 24.87 ng/ul  
 RT: 19.91 min Scan# 2829  
 Delta R.T. -0.00 min  
 Lab File: BG030865.D  
 Acq: 9 Nov 2017 3:14

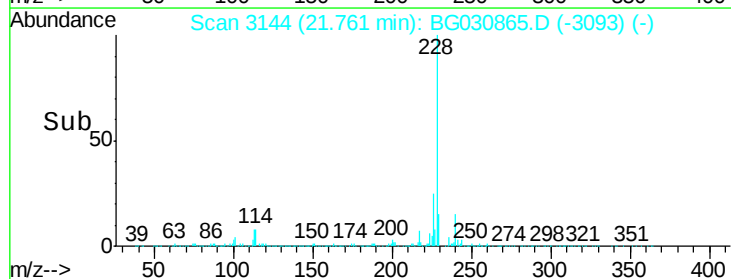
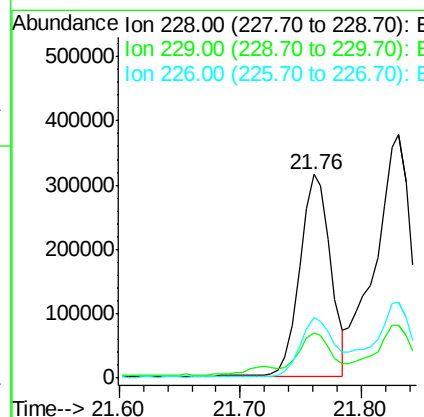
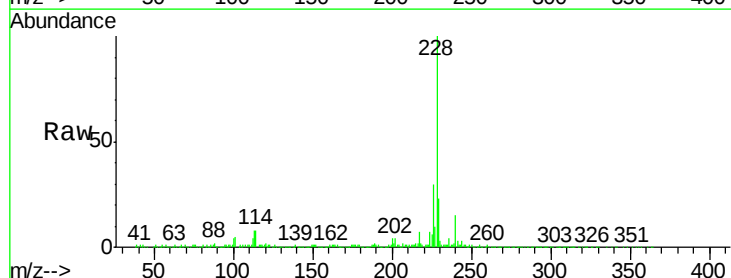
Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0F06

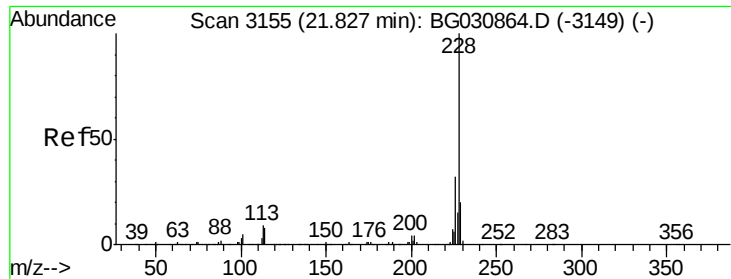
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.4  | 8.4   | 12.6  |
| 100     | 9.6   | 7.0   | 10.6  |



#80  
 Benzo(a)anthracene  
 Concen: 18.14 ng/ul  
 RT: 21.76 min Scan# 3144  
 Delta R.T. -0.00 min  
 Lab File: BG030865.D  
 Acq: 9 Nov 2017 3:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.5  | 16.2  | 24.4  |
| 226     | 30.0  | 22.2  | 33.2  |





#82

Chrysene

Concen: 26.73 ng/ul

RT: 21.83 min Scan# 3156

Delta R.T. 0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

Instrument :

BNA\_G

ClientSampleId :

B0F06

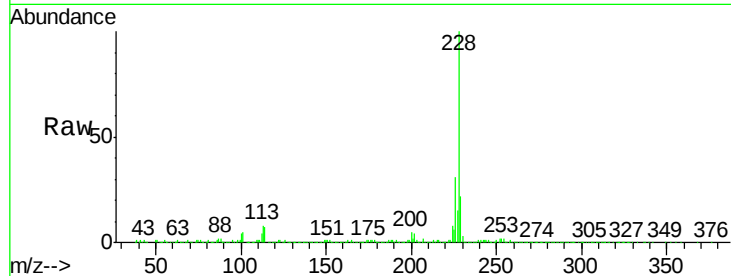
Tot Ion:228 Resp: 754461

Ion Ratio Lower Upper

228 100

226 31.3 24.2 36.2

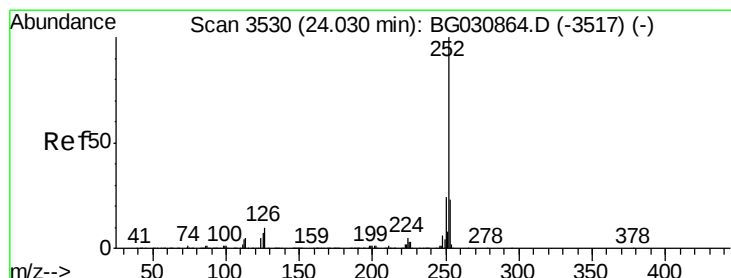
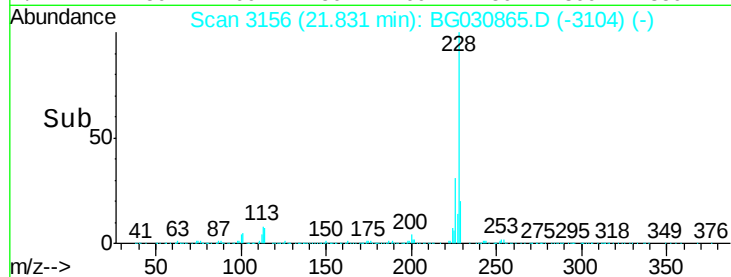
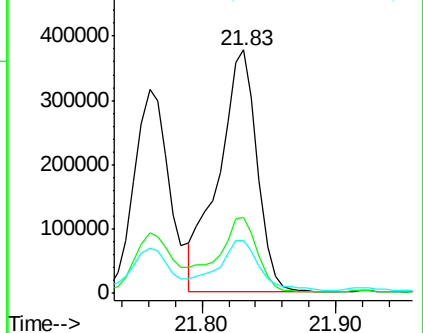
229 21.9 15.2 22.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 36.82 ng/ul

RT: 24.05 min Scan# 3533

Delta R.T. 0.02 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

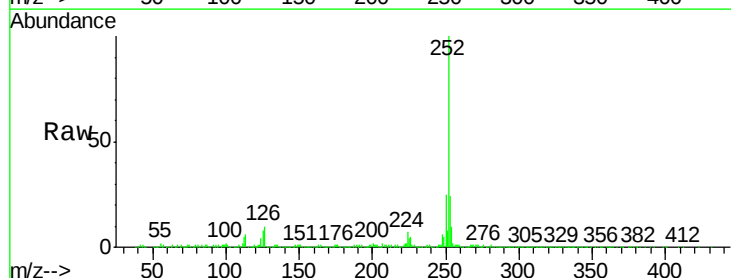
Tgt Ion:252 Resp: 1148365

Ion Ratio Lower Upper

252 100

253 23.9 17.0 25.4

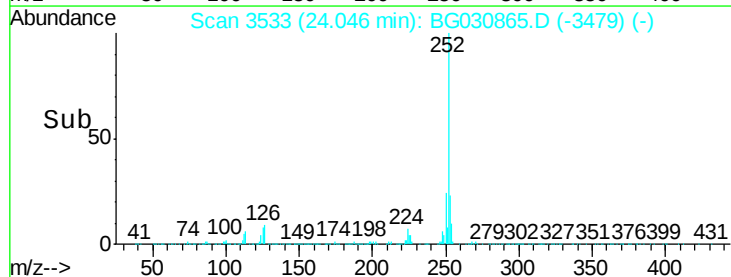
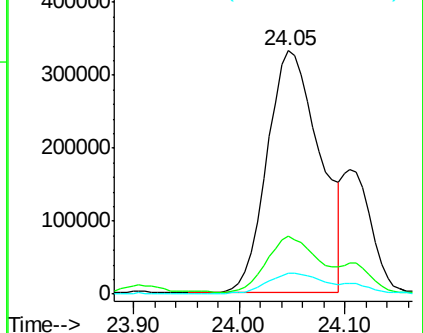
125 8.5 7.5 11.3

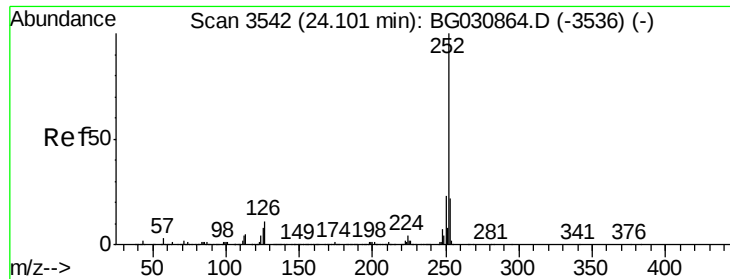


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#86

Benzo(k)fluoranthene

Concen: 38.09 ng/ul

RT: 24.05 min Scan# 3533

Delta R.T. -0.05 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

Instrument :

BNA\_G

ClientSampled :

B0F06

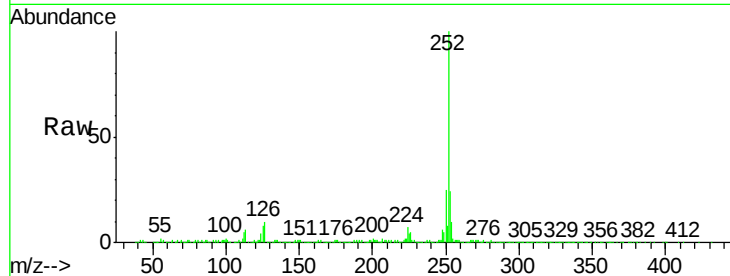
Tot Ion:252 Resp: 1148365

Ion Ratio Lower Upper

252 100

253 23.9 17.2 25.8

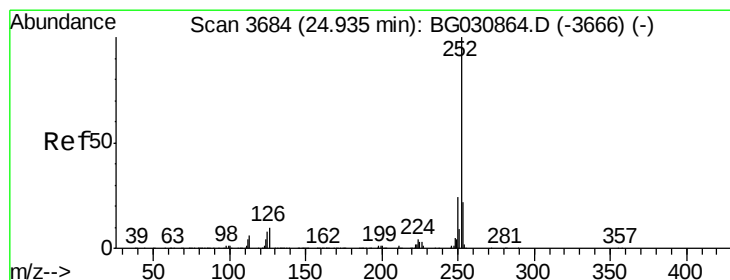
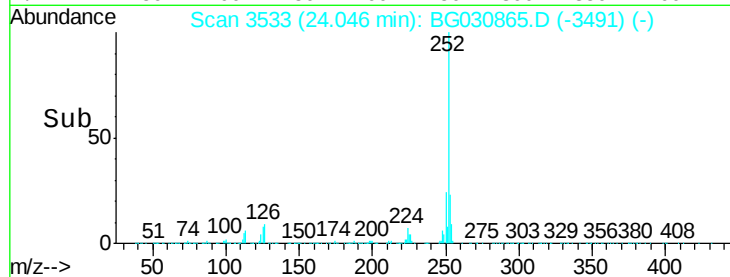
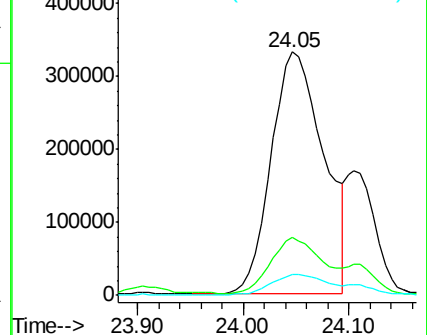
125 8.5 7.8 11.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(a)pyrene

Concen: 21.74 ng/ul

RT: 24.95 min Scan# 3686

Delta R.T. 0.01 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

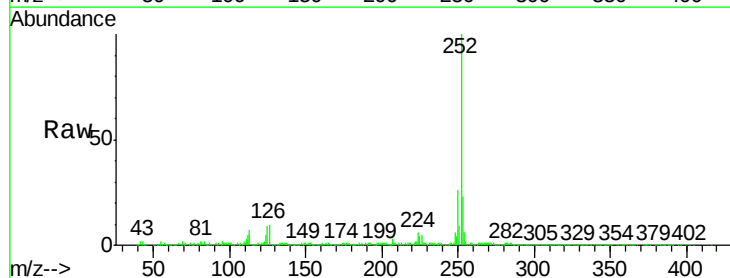
Tgt Ion:252 Resp: 660076

Ion Ratio Lower Upper

252 100

253 22.9 17.1 25.7

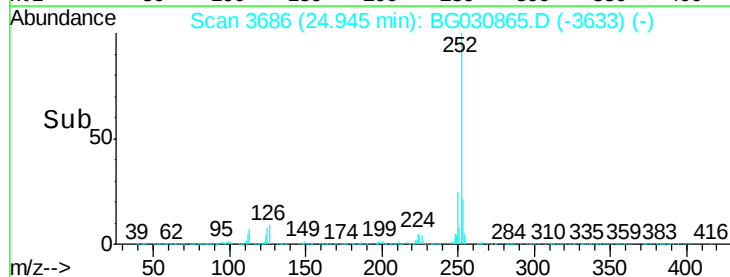
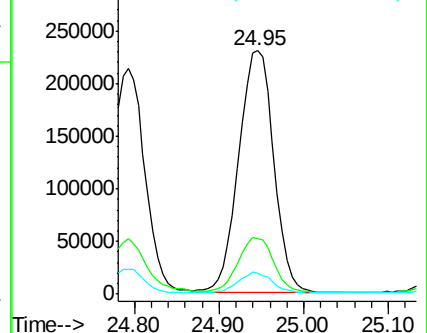
125 8.8 7.8 11.8

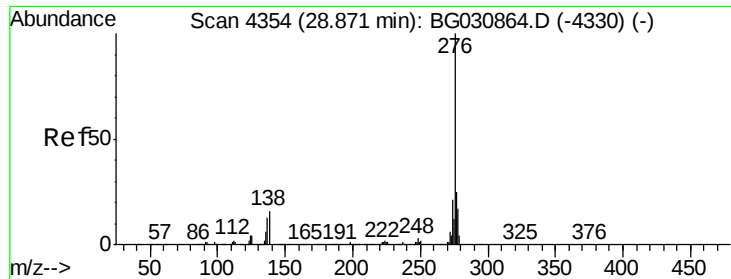


Abundance Ion 252.00 (251.70 to 252.70): E

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: 15.15 ng/ul

RT: 28.90 min Scan# 4359

Delta R.T. 0.03 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

Instrument :

BNA\_G

ClientSampleId :

B0F06

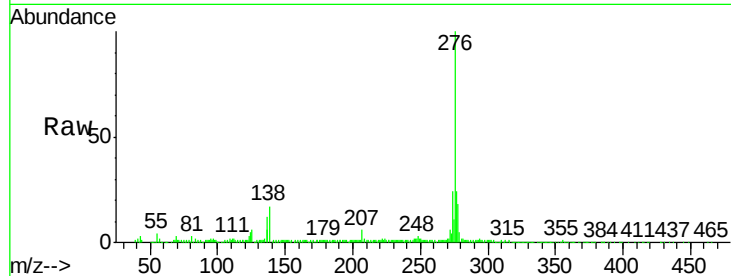
Tot Ion:276 Resp: 520298

Ion Ratio Lower Upper

276 100

138 16.7 13.4 20.0

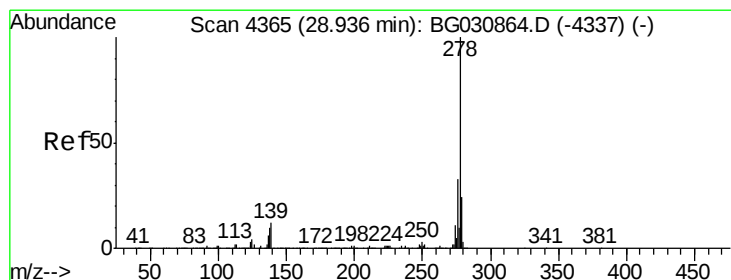
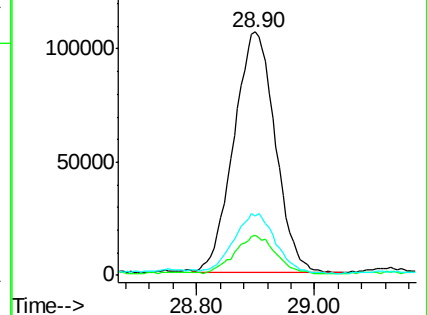
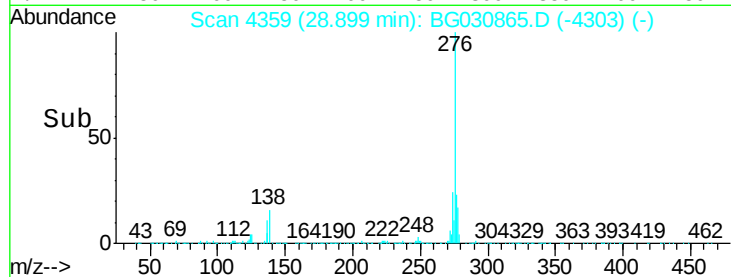
277 24.2 18.6 28.0



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: 5.09 ng/ul

RT: 28.93 min Scan# 4365

Delta R.T. -0.00 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

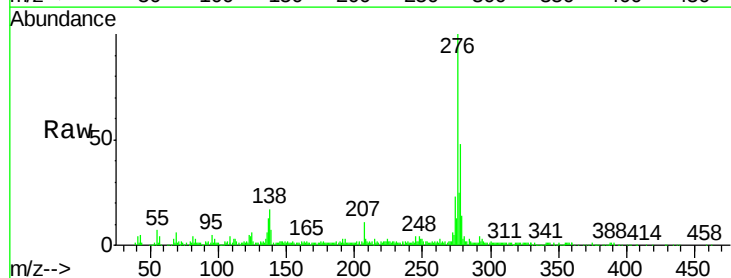
Tgt Ion:278 Resp: 145270

Ion Ratio Lower Upper

278 100

139 14.7 9.4 14.2#

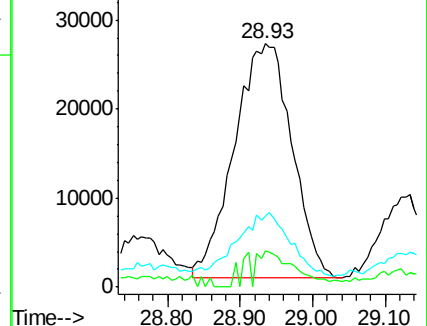
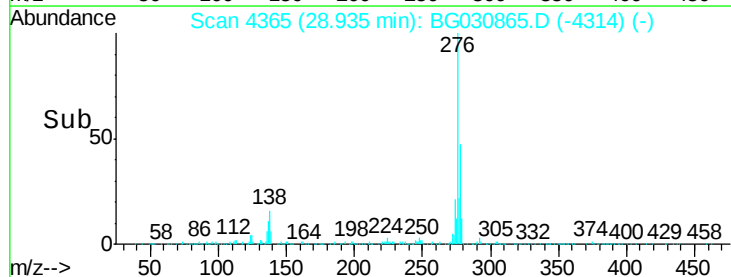
279 29.2 18.4 27.6#

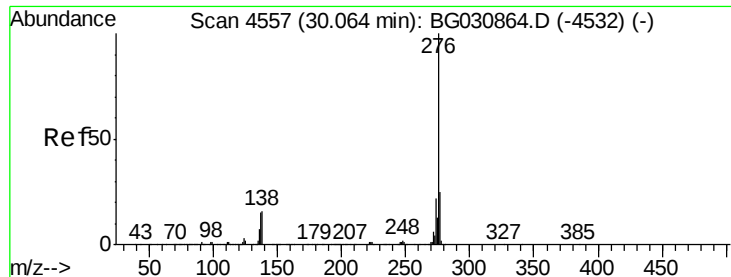


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 15.90 ng/ul

RT: 30.09 min Scan# 4562

Delta R.T. 0.03 min

Lab File: BG030865.D

Acq: 9 Nov 2017 3:14

Instrument :

BNA\_G

ClientSampleId :

B0F06

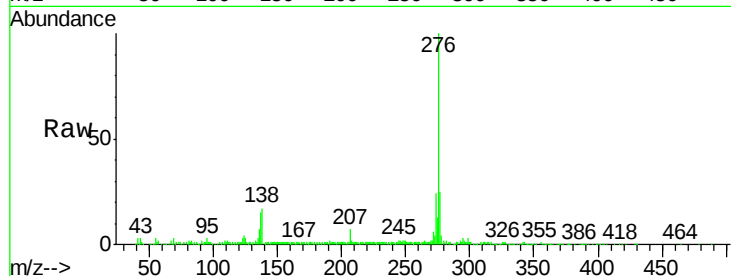
Tot Ion:276 Resp: 452512

Ion Ratio Lower Upper

276 100

138 17.2 12.1 18.1

277 24.5 17.7 26.5



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

