

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051817\  
 Data File : BG027040.D  
 Acq On : 19 May 2017 15:02  
 Operator : SJ/MA  
 Sample : I3136-16  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC26

Quant Time: May 19 16:12:02 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 19 04:25:04 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 203665   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.81 | 136  | 929936   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.62 | 164  | 468383   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.36 | 188  | 840669   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.61 | 240  | 749299   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.79 | 264  | 689491   | 20.00 | ng/ul | 0.03     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 14.32 | 160  | 797798   | 16.61 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.61 | 176  | 499561   | 15.59 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 17.36 | 188  | 840669   | 20.51 | ng/ul | -0.09    |
| 18) Pyrene-d10              | 19.74 | 212  | 660287   | 16.88 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.57 | 264  | 564906   | 16.49 | ng/ul | 0.03     |

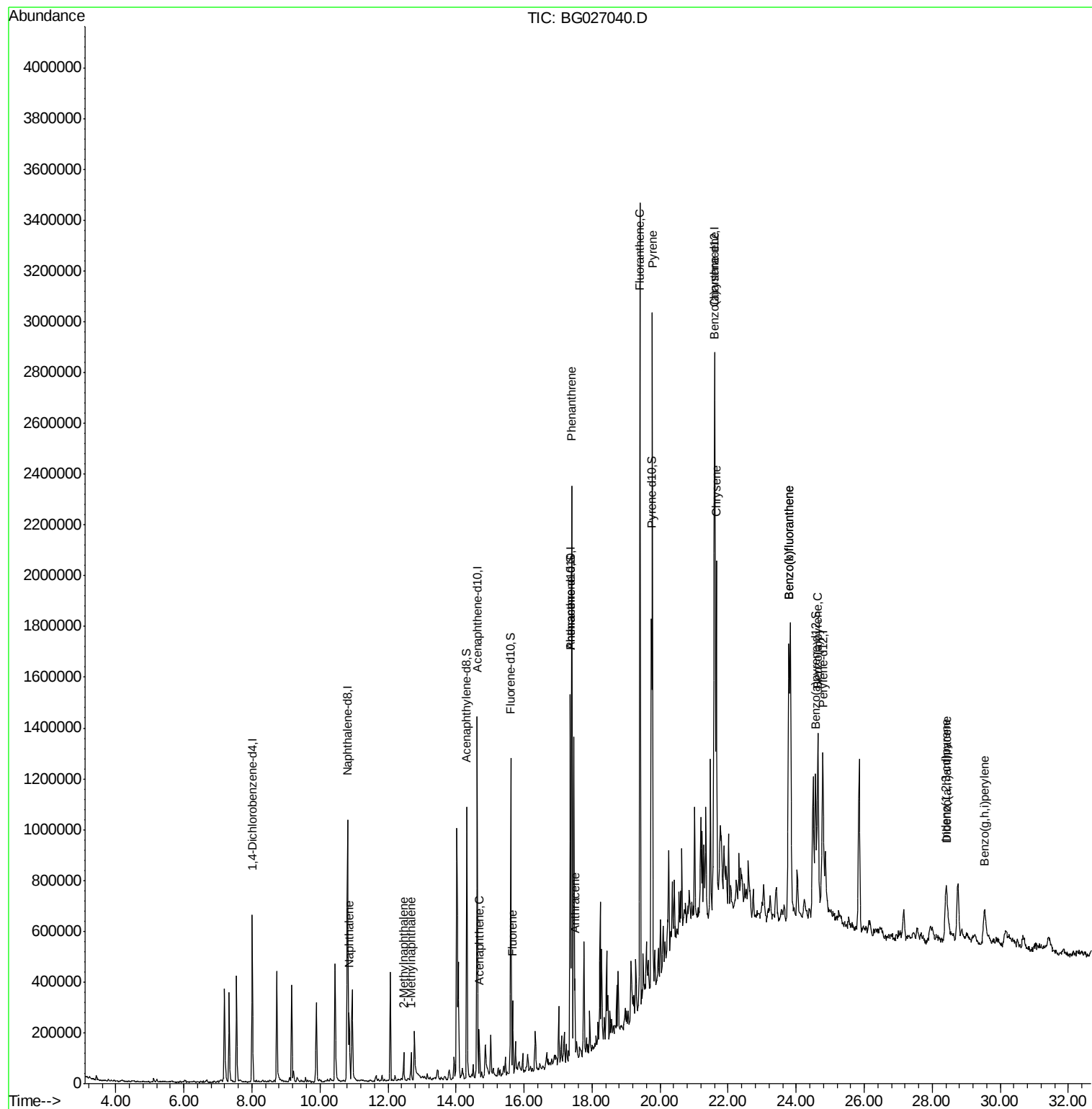
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Naphthalene             | 10.86 | 128  | 212768   | 4.41  | ng/ul  | 99     |
| 4) 2-Methylnaphthalene     | 12.46 | 142  | 56136    | 1.57  | ng/ul  | 99     |
| 5) 1-Methylnaphthalene     | 12.68 | 142  | 55043    | 1.43  | ng/ul  | 95     |
| 9) Acenaphthene            | 14.68 | 153  | 71915    | 2.18  | ng/ul  | 98     |
| 11) Fluorene               | 15.66 | 166  | 127664   | 3.62  | ng/ul  | 94     |
| 13) Phenanthrene           | 17.40 | 178  | 1321904  | 28.13 | ng/ul  | 96     |
| 15) Anthracene             | 17.49 | 178  | 207405   | 4.30  | ng/ul  | 98     |
| 16) Fluoranthene           | 19.41 | 202  | 1837536  | 38.25 | ng/ul# | 89     |
| 19) Pyrene                 | 19.77 | 202  | 1468389  | 29.98 | ng/ul# | 85     |
| 20) Benzo(a)anthracene     | 21.59 | 228  | 834691   | 18.49 | ng/ul  | 96     |
| 21) Chrysene               | 21.66 | 228  | 881264   | 21.26 | ng/ul  | 95     |
| 23) Benzo(b)fluoranthene   | 23.78 | 252  | 1121303  | 27.36 | ng/ul# | 91     |
| 24) Benzo(k)fluoranthene   | 23.78 | 252  | 1121303  | 26.60 | ng/ul# | 91     |
| 26) Benzo(a)pyrene         | 24.64 | 252  | 646599   | 16.13 | ng/ul# | 89     |
| 27) Indeno(1,2,3-cd)pyrene | 28.40 | 276  | 393391   | 10.67 | ng/ul# | 83     |
| 28) Dibenzo(a,h)anthracene | 28.42 | 278  | 40541    | 1.27  | ng/ul# | 77     |
| 29) Benzo(g,h,i)perylene   | 29.52 | 276  | 108366   | 3.69  | ng/ul# | 84     |

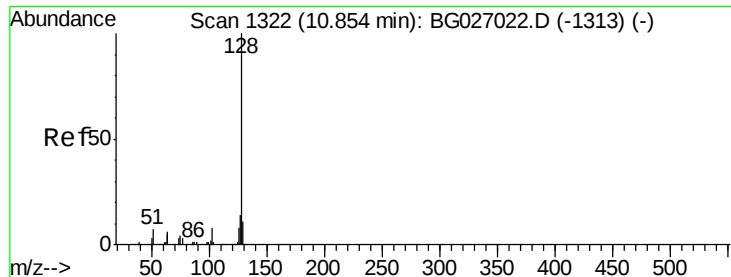
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 19 16:12:02 2017  
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QLast Update : Fri May 19 04:25:04 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 4.41 ng/ul

RT: 10.86 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampleId :

DAC26

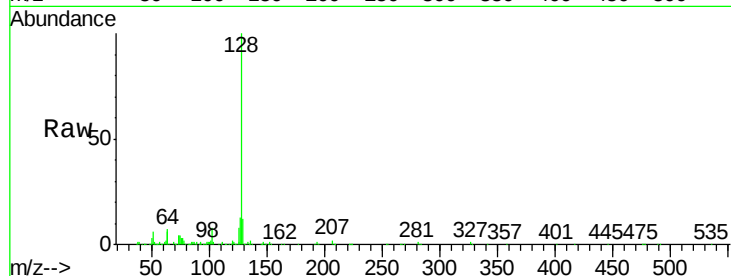
Tgt Ion:128 Resp: 212768

Ion Ratio Lower Upper

128 100

129 11.5 8.7 13.1

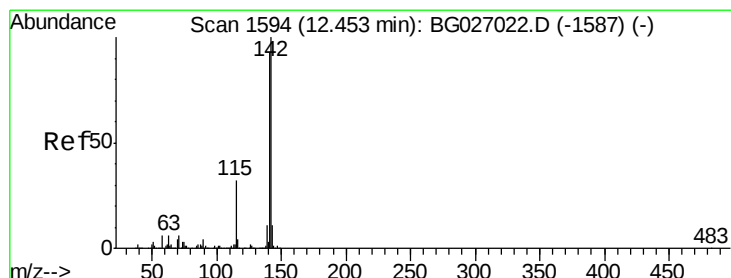
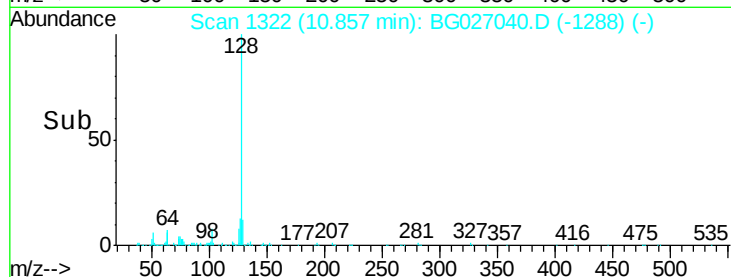
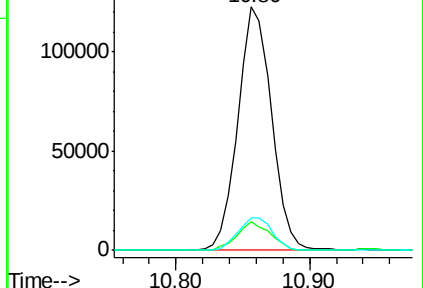
127 13.5 10.6 16.0



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



#4

2-Methylnaphthalene

Concen: 1.57 ng/ul

RT: 12.46 min Scan# 1595

Delta R.T. 0.01 min

Lab File: BG027040.D

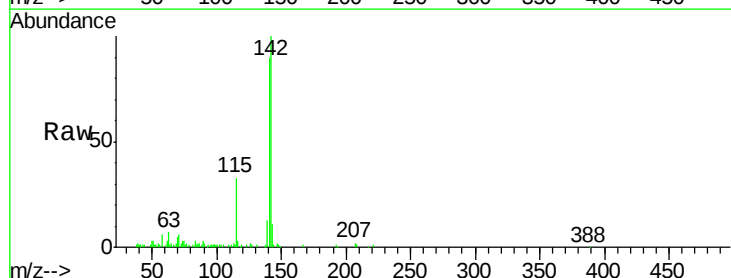
Acq: 19 May 2017 15:02

Tgt Ion:142 Resp: 56136

Ion Ratio Lower Upper

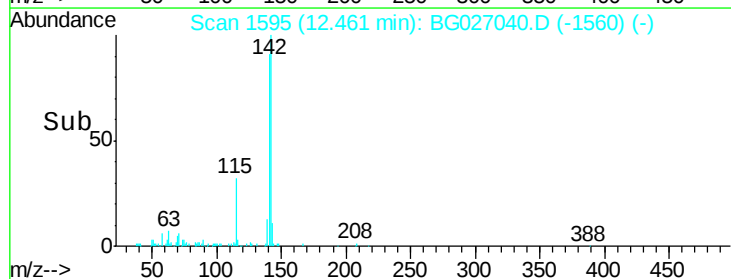
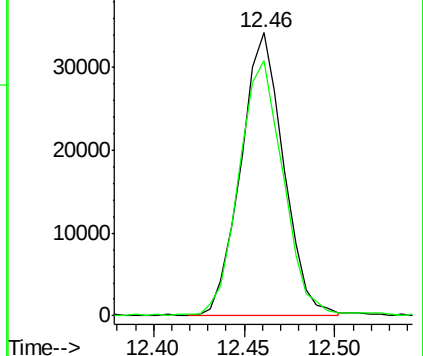
142 100

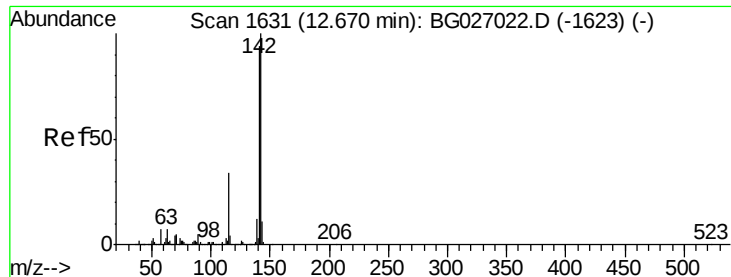
141 90.2 72.7 109.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 1.43 ng/ul

RT: 12.68 min Scan# 1632

Delta R.T. 0.01 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampleId :

DAC26

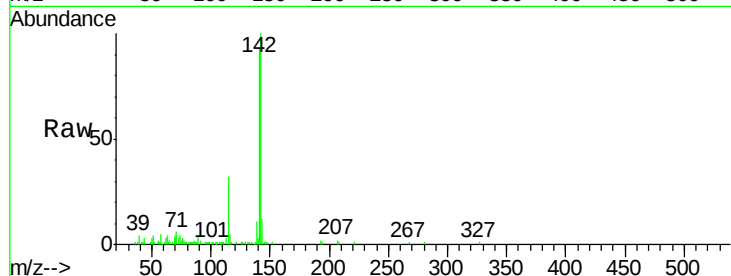
Tgt Ion:142 Resp: 55043

Ion Ratio Lower Upper

142 100

141 93.4 79.3 118.9

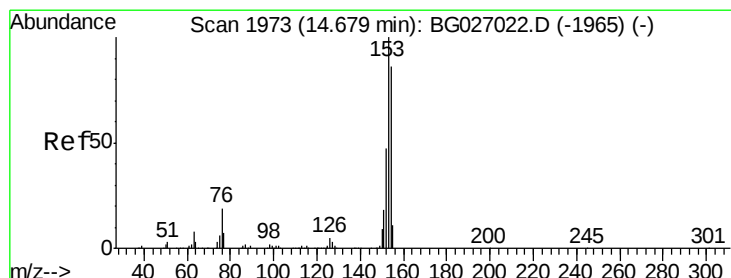
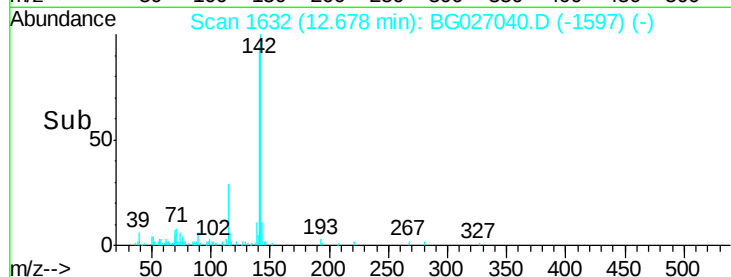
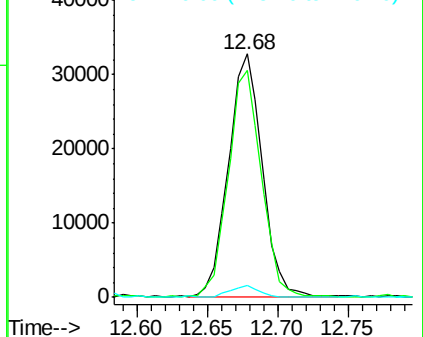
116 5.0 4.2 6.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#9

Acenaphthene

Concen: 2.18 ng/ul

RT: 14.68 min Scan# 1973

Delta R.T. 0.00 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

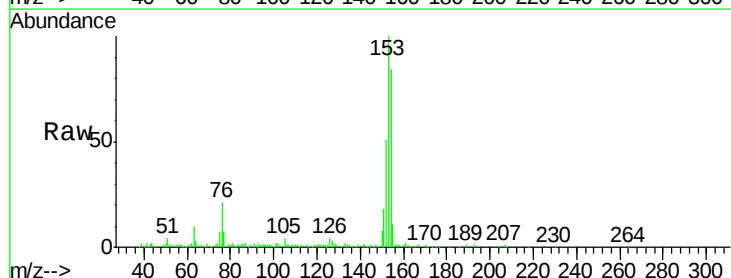
Tgt Ion:153 Resp: 71915

Ion Ratio Lower Upper

153 100

152 50.9 39.0 58.6

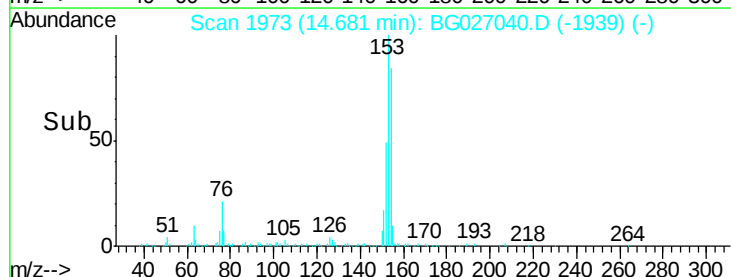
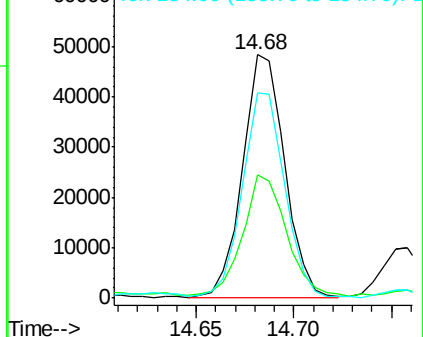
154 84.3 66.8 100.2

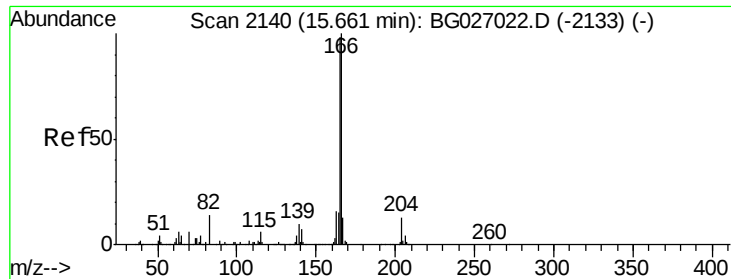


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 3.62 ng/ul

RT: 15.66 min Scan# 2140

Delta R.T. 0.00 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampled :

DAC26

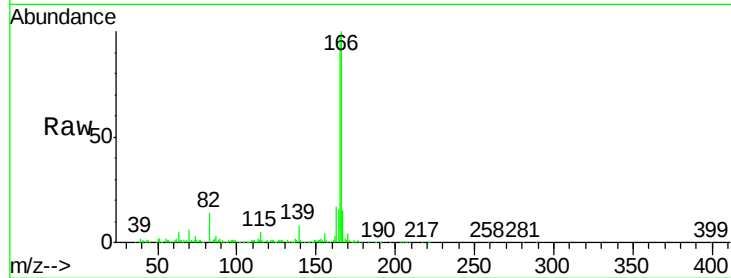
Tgt Ion:166 Resp: 127664

Ion Ratio Lower Upper

166 100

165 97.7 83.8 125.8

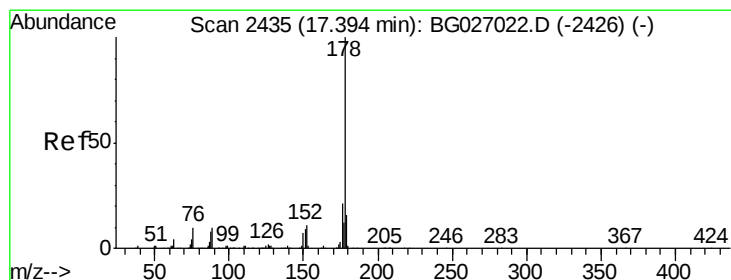
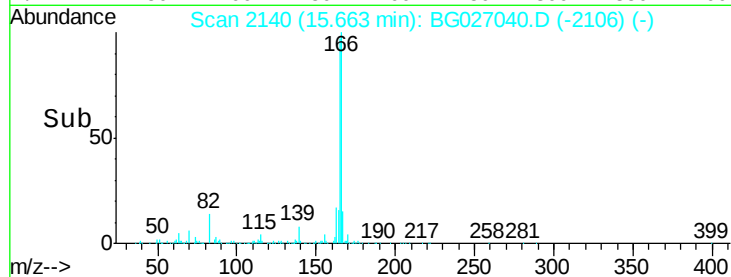
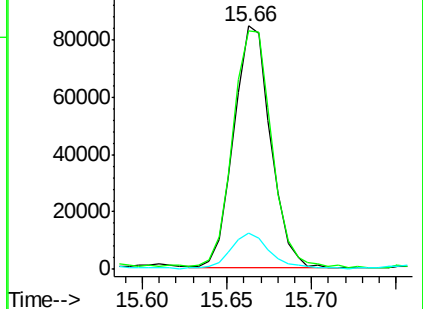
167 15.1 11.5 17.3



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#13

Phenanthrene

Concen: 28.13 ng/ul

RT: 17.40 min Scan# 2436

Delta R.T. 0.01 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

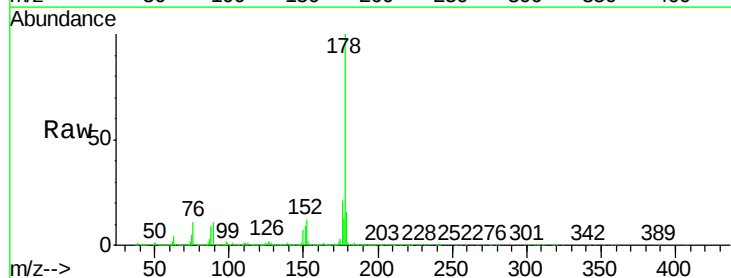
Tgt Ion:178 Resp: 1321904

Ion Ratio Lower Upper

178 100

179 16.3 12.3 18.5

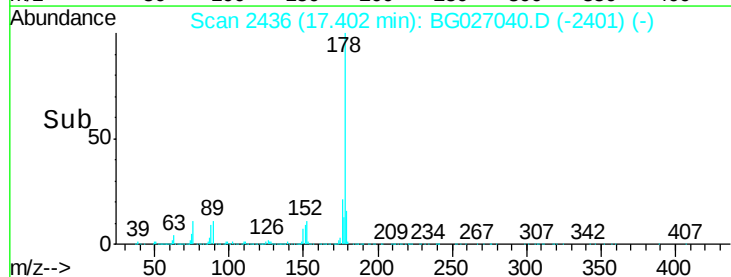
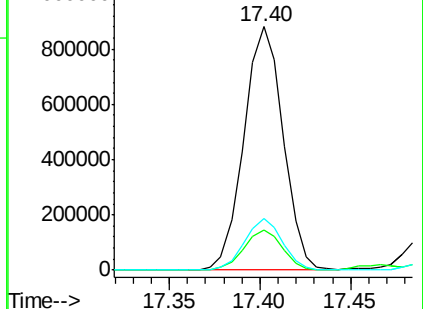
176 21.2 15.1 22.7

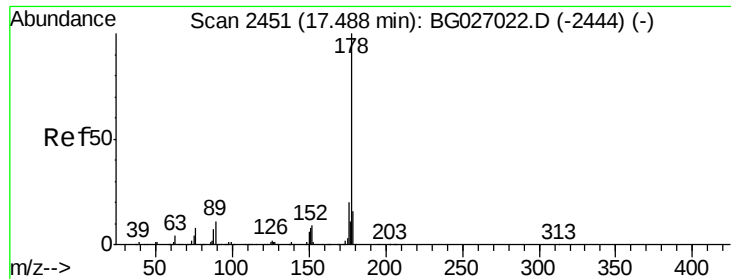


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Anthracene

Concen: 4.30 ng/ul

RT: 17.49 min Scan# 2451

Delta R.T. 0.00 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampleId :

DAC26

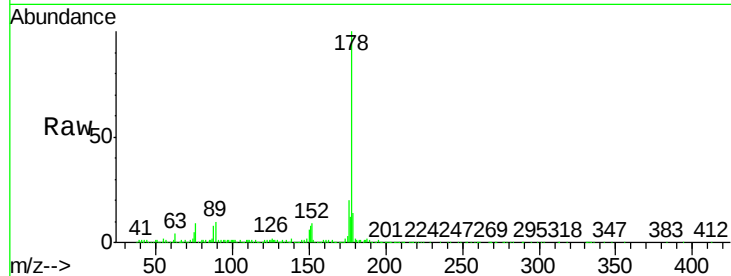
Tgt Ion:178 Resp: 207405

Ion Ratio Lower Upper

178 100

179 13.9 11.8 17.8

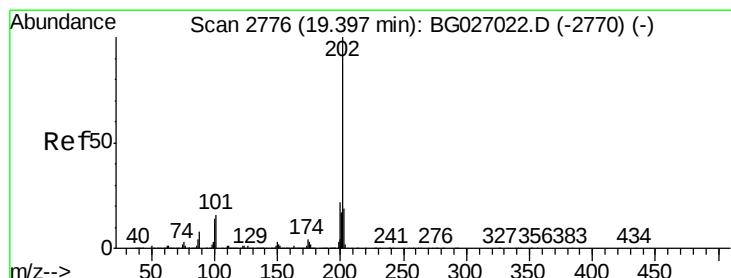
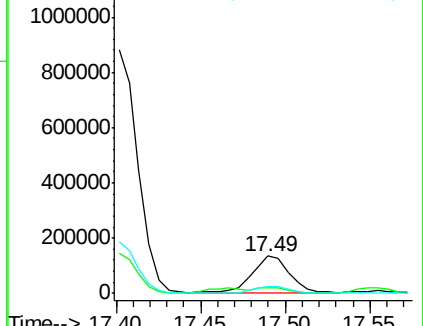
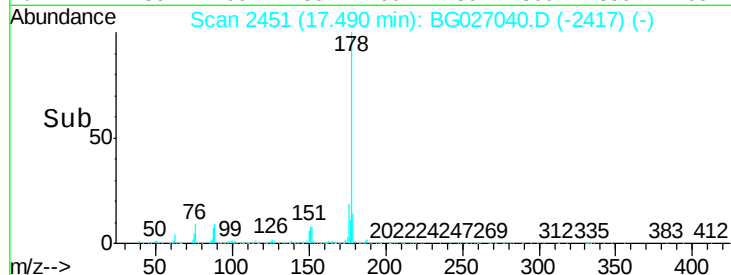
176 19.7 15.2 22.8



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



#16

Fluoranthene

Concen: 38.25 ng/ul

RT: 19.41 min Scan# 2778

Delta R.T. 0.01 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

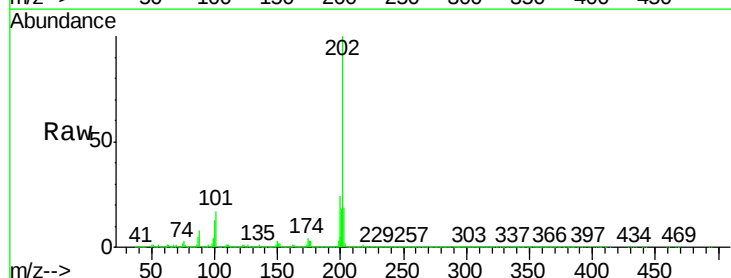
Tgt Ion:202 Resp: 1837536

Ion Ratio Lower Upper

202 100

101 16.5 9.9 14.9#

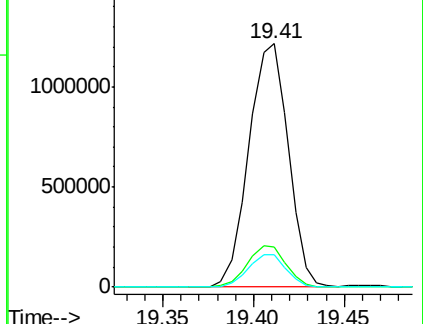
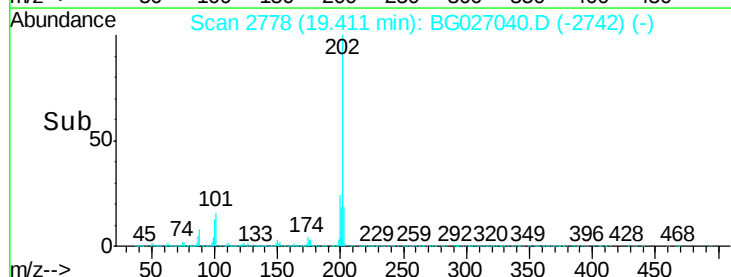
100 13.4 7.4 11.0#

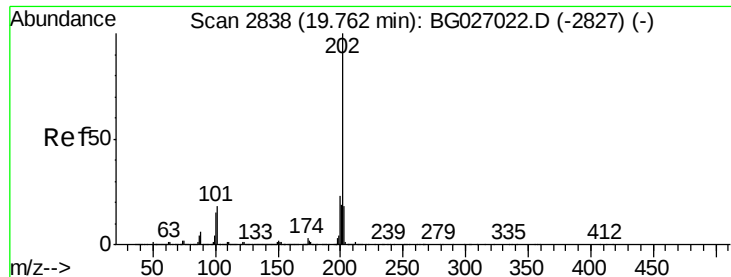


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#19

Pyrene

Concen: 29.98 ng/ul

RT: 19.77 min Scan# 2839

Delta R.T. 0.01 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampleId :

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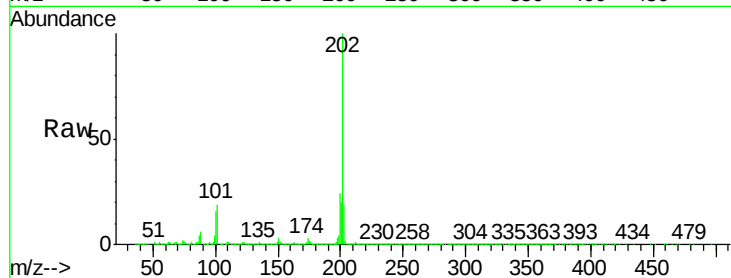
Tgt Ion:202 Resp: 1468389

Ion Ratio Lower Upper

202 100

101 19.1 11.0 16.4#

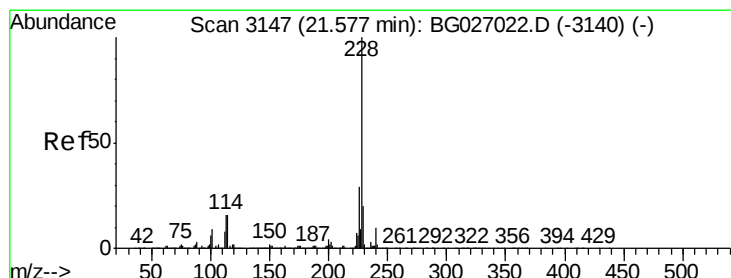
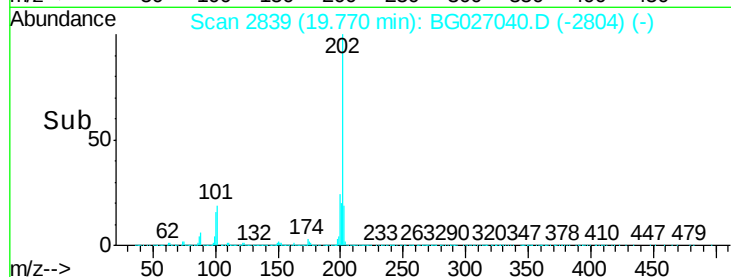
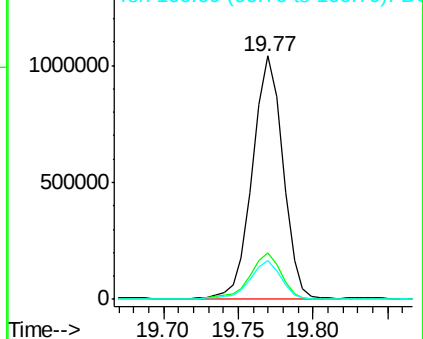
100 16.1 8.1 12.1#



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



#20

Benzo(a)anthracene

Concen: 18.49 ng/ul

RT: 21.59 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

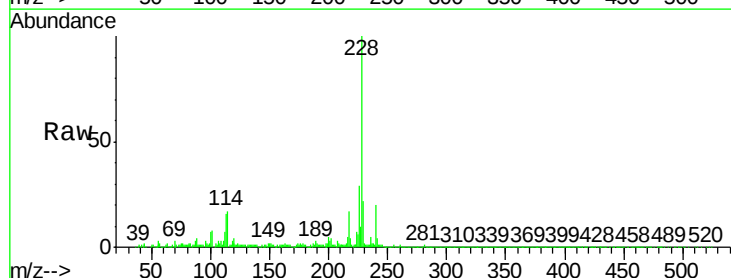
Tgt Ion:228 Resp: 834691

Ion Ratio Lower Upper

228 100

229 21.6 15.7 23.5

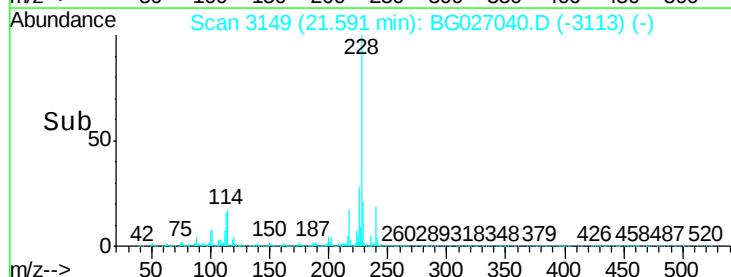
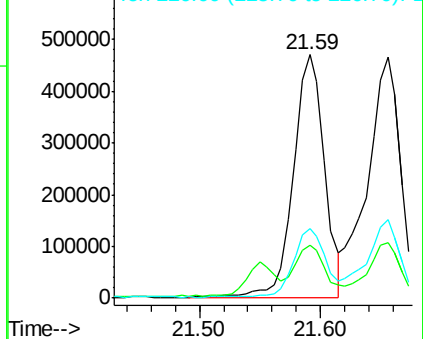
226 28.8 21.1 31.7

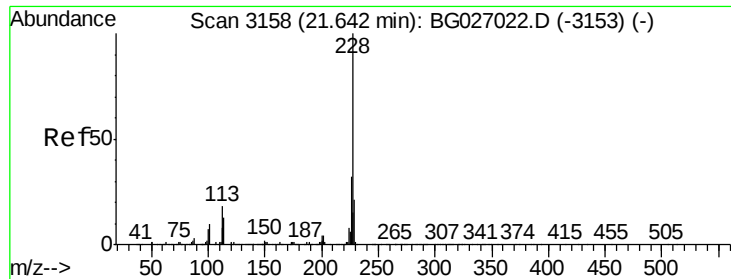


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#21

Chrysene

Concen: 21.26 ng/ul

RT: 21.66 min Scan# 3160

Delta R.T. 0.01 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampleId :

DAC26

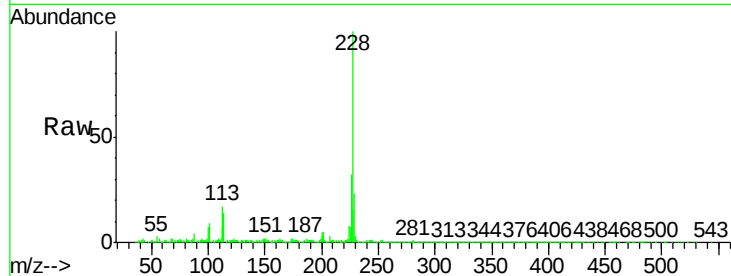
Tgt Ion:228 Resp: 881264

Ion Ratio Lower Upper

228 100

226 32.4 24.5 36.7

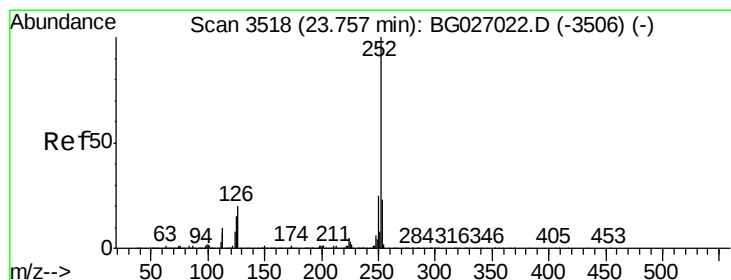
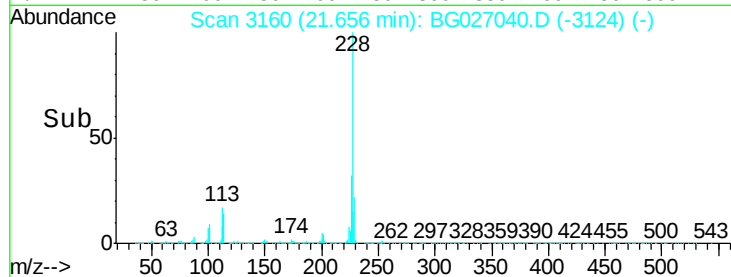
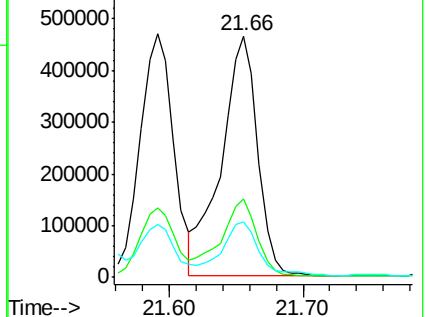
229 22.9 15.8 23.8



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



#23

Benzo(b)fluoranthene

Concen: 27.36 ng/ul

RT: 23.78 min Scan# 3522

Delta R.T. 0.03 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

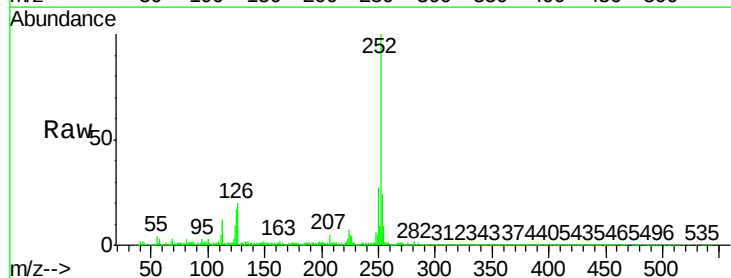
Tgt Ion:252 Resp: 1121303

Ion Ratio Lower Upper

252 100

253 24.5 18.0 27.0

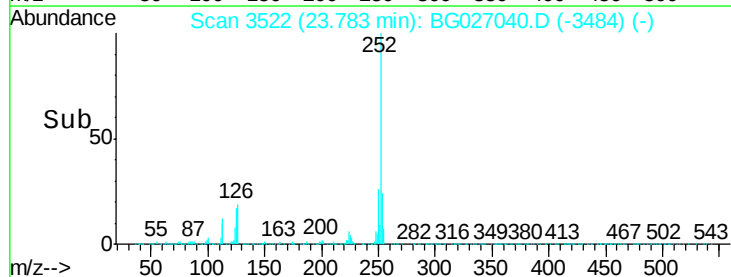
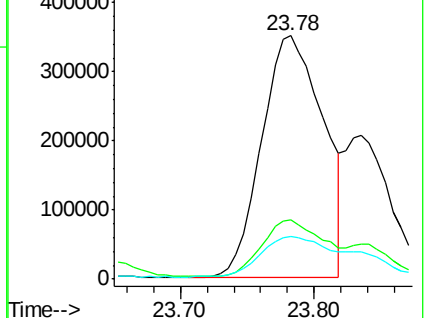
125 17.5 8.0 12.0#

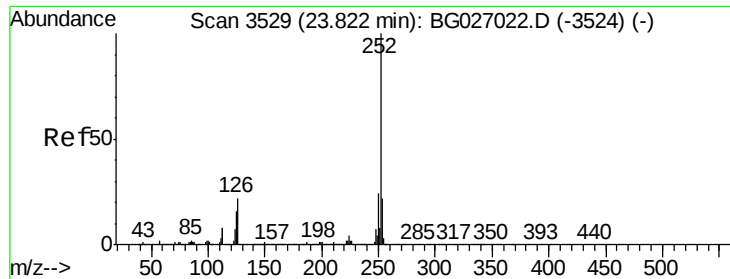


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 26.60 ng/ul

RT: 23.78 min Scan# 3522

Delta R.T. -0.04 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampleId :

DAC26

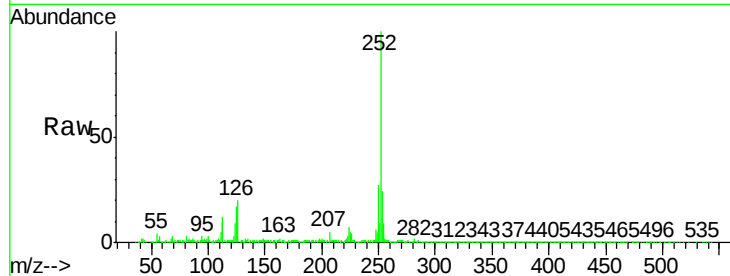
Tgt Ion:252 Resp: 1121303

Ion Ratio Lower Upper

252 100

253 24.5 18.0 27.0

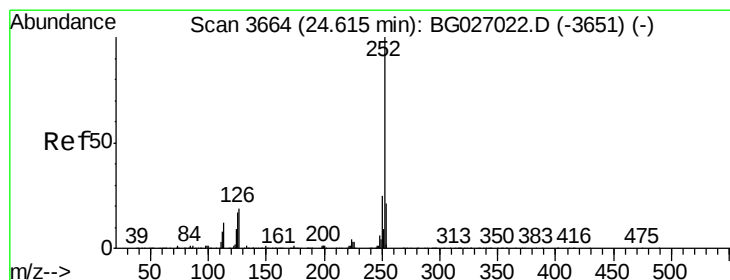
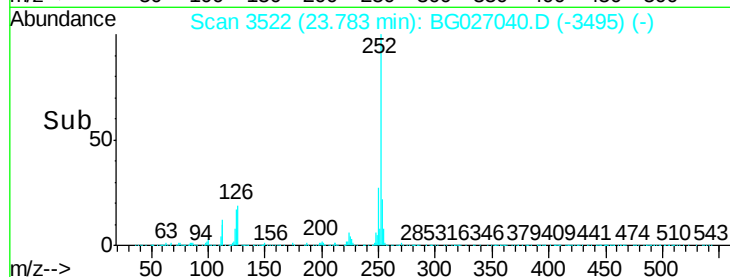
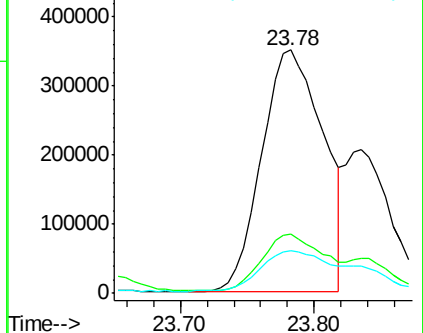
125 17.5 8.1 12.1#



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



#26

Benzo(a)pyrene

Concen: 16.13 ng/ul

RT: 24.64 min Scan# 3668

Delta R.T. 0.03 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

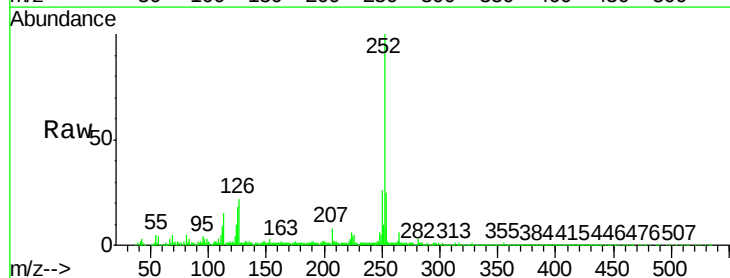
Tgt Ion:252 Resp: 646599

Ion Ratio Lower Upper

252 100

253 24.9 17.2 25.8

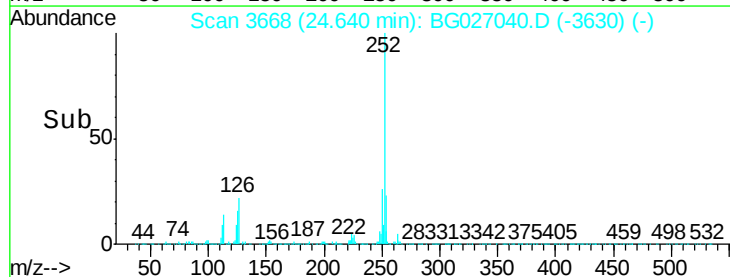
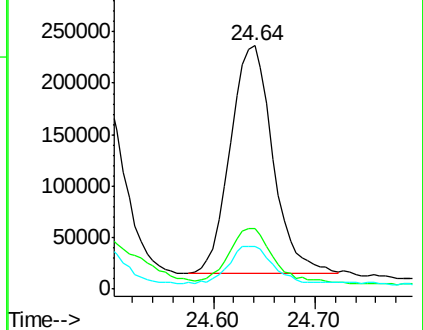
125 17.6 8.2 12.4#

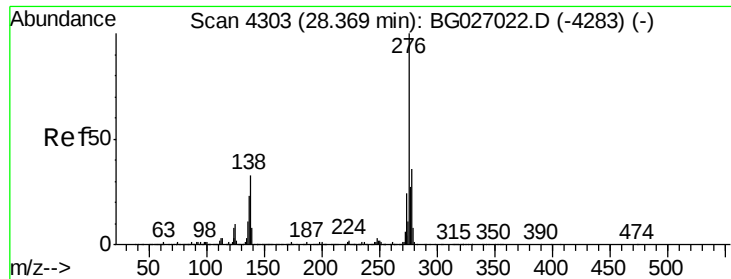


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Indeno(1,2,3-cd)pyrene

Concen: 10.67 ng/ul

RT: 28.40 min Scan# 4308

Delta R.T. 0.03 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

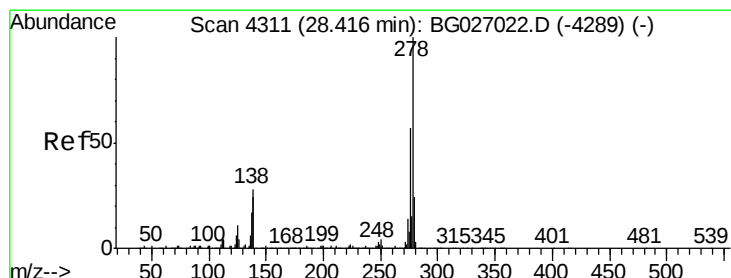
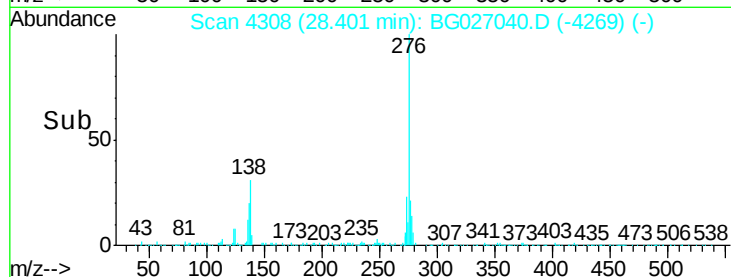
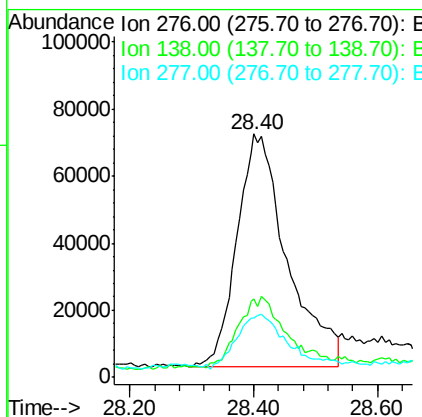
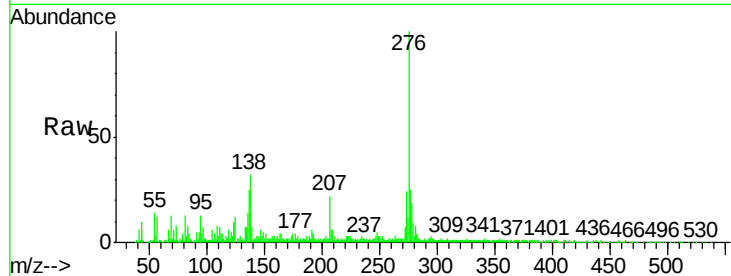
Instrument :

BNA\_G

ClientSampleId :

DAC26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 276   | Resp: | 393391 |
| Ion      | Ratio | Lower | Upper  |
| 276      | 100   |       |        |
| 138      | 32.2  | 14.4  | 21.6#  |
| 277      | 24.5  | 18.0  | 27.0   |



#28

Dibenzo(a,h)anthracene

Concen: 1.27 ng/ul

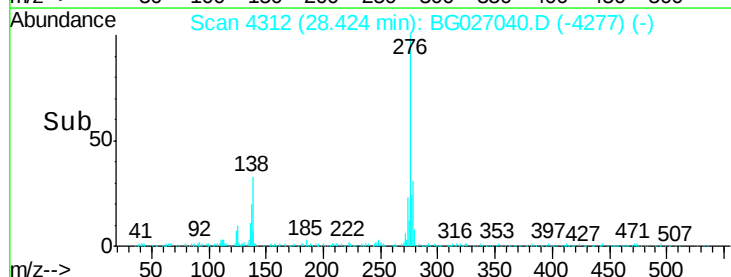
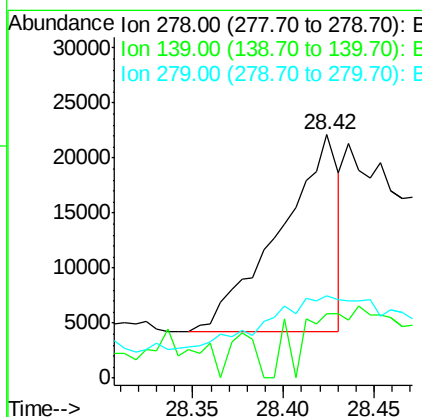
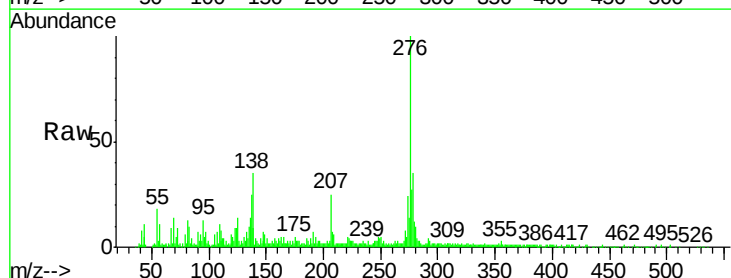
RT: 28.42 min Scan# 4312

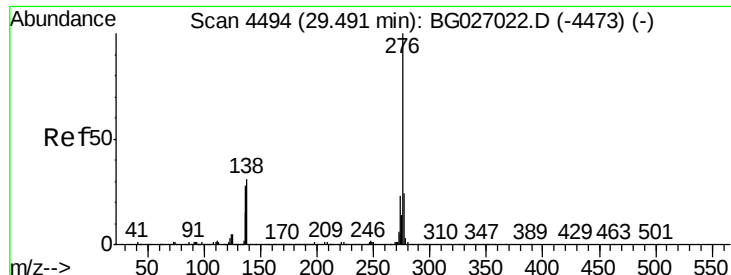
Delta R.T. 0.01 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 40541 |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 26.7  | 12.2  | 18.4# |
| 279      | 33.9  | 19.2  | 28.8# |





#29

Benzo(g,h,i)perylene

Concen: 3.69 ng/ul

RT: 29.52 min Scan# 4499

Delta R.T. 0.03 min

Lab File: BG027040.D

Acq: 19 May 2017 15:02

Instrument :

BNA\_G

ClientSampleId :

DAC26

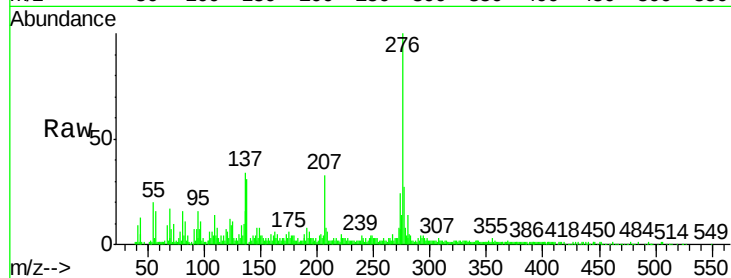
Tgt Ion:276 Resp: 108366

Ion Ratio Lower Upper

276 100

138 31.4 15.3 22.9#

277 26.7 19.0 28.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

