

Data Path : Z:\HPCHEM1\BNA G\DATA\BG052617\  
 Data File : BG027136.D  
 Acq On : 24 May 2017 20:10  
 Operator : SJ/MA  
 Sample : I3277-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: May 25 04:52:53 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG051817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 25 04:52:31 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.00  | 152  | 178783   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.80 | 136  | 868429   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.61 | 164  | 446452   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.35 | 188  | 804204   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.60 | 240  | 728830   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.77 | 264  | 652863   | 20.00 | ng/ul | 0.00     |

|                             |       |     |         |       |       |      |
|-----------------------------|-------|-----|---------|-------|-------|------|
| System Monitoring Compounds |       |     |         |       |       |      |
| 7) Acenaphthylene-d8        | 14.31 | 160 | 1053884 | 23.01 | ng/ul | 0.00 |
| 10) Fluorene-d10            | 15.60 | 176 | 673020  | 22.03 | ng/ul | 0.00 |
| 14) Anthracene-d10          | 17.45 | 188 | 895669  | 22.84 | ng/ul | 0.00 |
| 18) Pyrene-d10              | 19.73 | 212 | 882142  | 23.18 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12      | 24.56 | 264 | 744396  | 22.95 | ng/ul | 0.00 |

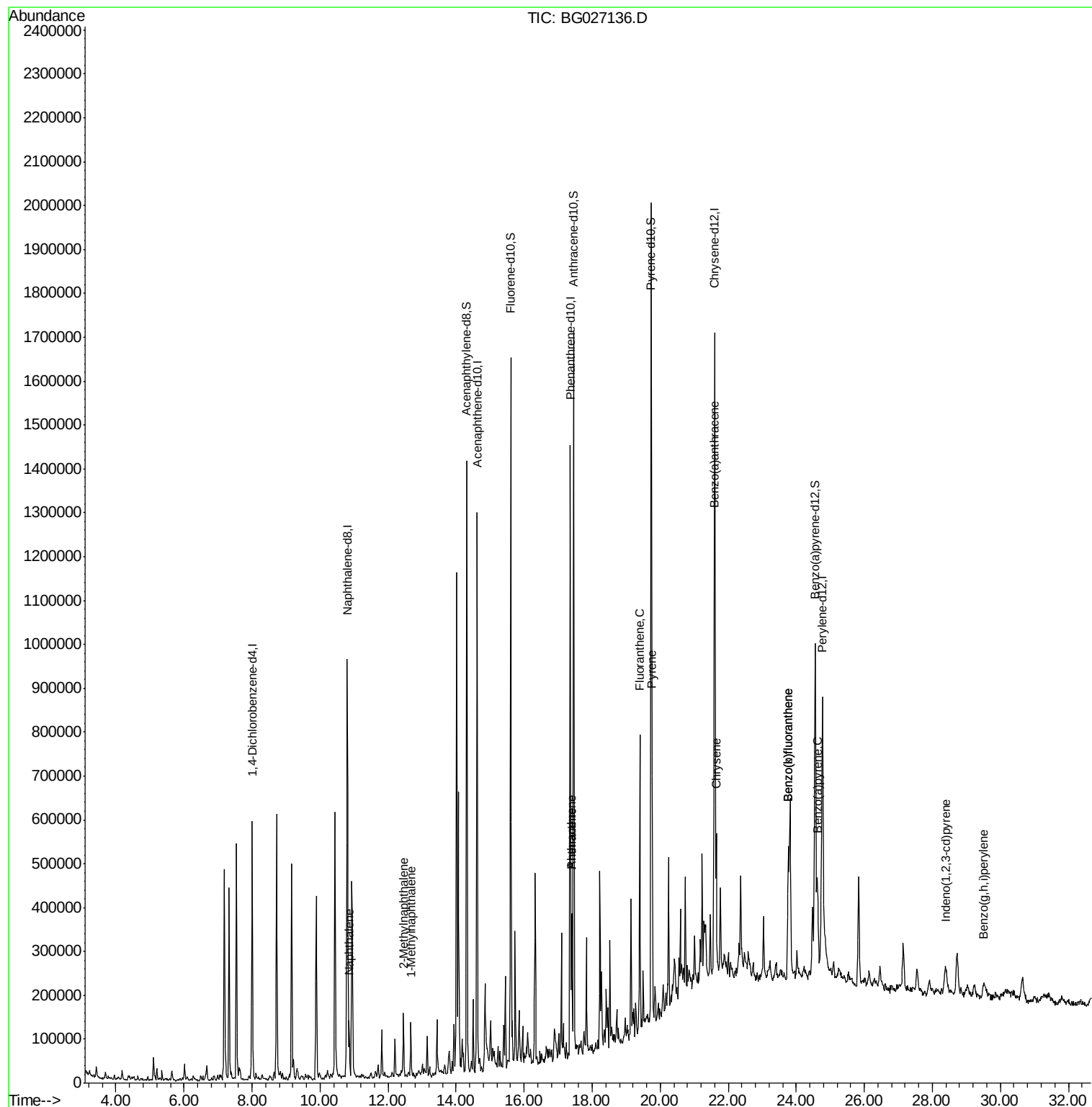
|                            |       |     |        |        |        |    |
|----------------------------|-------|-----|--------|--------|--------|----|
| Target Compounds           |       |     |        | Ovalue |        |    |
| 3) Naphthalene             | 10.85 | 128 | 106863 | 2.37   | ng/ul# | 96 |
| 4) 2-Methylnaphthalene     | 12.45 | 142 | 74186  | 2.22   | ng/ul  | 99 |
| 5) 1-Methylnaphthalene     | 12.67 | 142 | 62675  | 1.74   | ng/ul# | 92 |
| 13) Phenanthrene           | 17.39 | 178 | 197594 | 4.40   | ng/ul  | 98 |
| 15) Anthracene             | 17.39 | 178 | 197892 | 4.28   | ng/ul  | 99 |
| 16) Fluoranthene           | 19.40 | 202 | 367413 | 7.99   | ng/ul# | 92 |
| 19) Pyrene                 | 19.76 | 202 | 361819 | 7.60   | ng/ul# | 87 |
| 20) Benzo(a)anthracene     | 21.58 | 228 | 193042 | 4.40   | ng/ul  | 96 |
| 21) Chrysene               | 21.65 | 228 | 218338 | 5.42   | ng/ul  | 98 |
| 23) Benzo(b)fluoranthene   | 23.77 | 252 | 325690 | 8.39   | ng/ul# | 93 |
| 24) Benzo(k)fluoranthene   | 23.77 | 252 | 325690 | 8.16   | ng/ul# | 93 |
| 26) Benzo(a)pyrene         | 24.63 | 252 | 178881 | 4.71   | ng/ul# | 93 |
| 27) Indeno(1,2,3-cd)pyrene | 28.38 | 276 | 87188  | 2.50   | ng/ul# | 87 |
| 29) Benzo(a,h,i)perylene   | 29.50 | 276 | 31077  | 1.12   | ng/ul# | 83 |

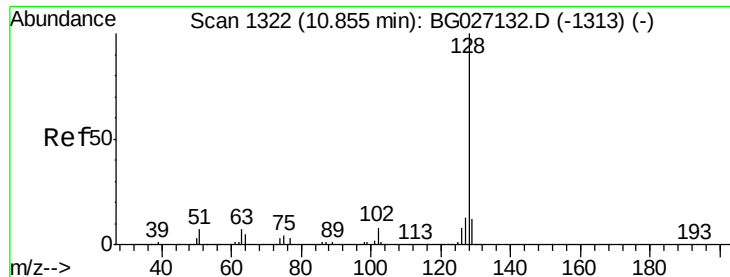
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 25 04:52:53 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG051817MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 25 04:52:31 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.37 ng/ul

RT: 10.85 min Scan# 1322

Delta R.T. -0.00 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

Instrument :

BNA\_G

ClientSampleId :

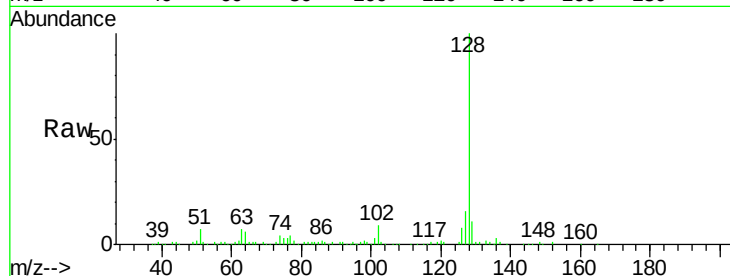
Tot Ion:128 Resp: 106863

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

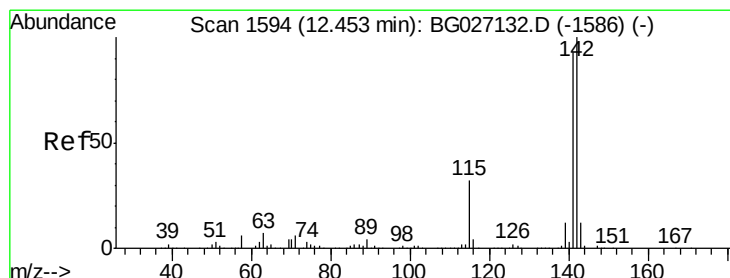
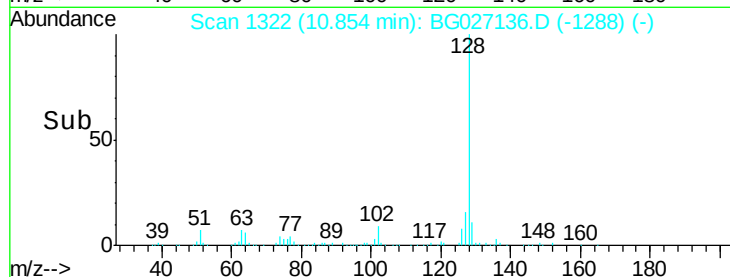
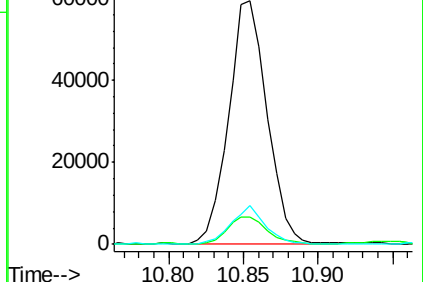
127 16.0 10.6 16.0#



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: 2.22 ng/ul

RT: 12.45 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BG027136.D

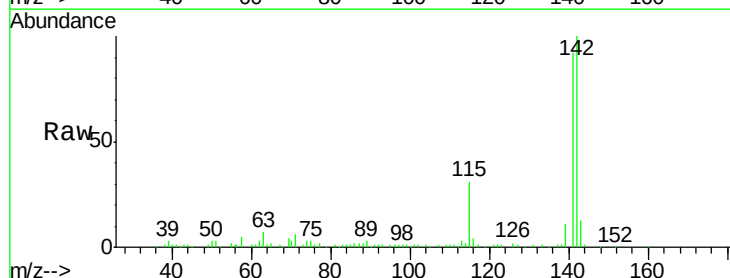
Acq: 24 May 2017 20:10

Tgt Ion:142 Resp: 74186

Ion Ratio Lower Upper

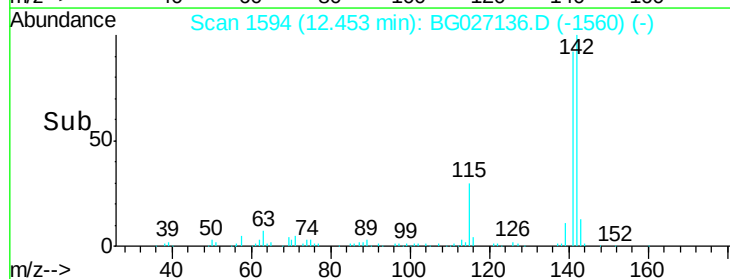
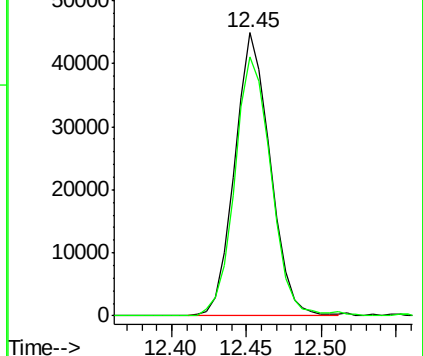
142 100

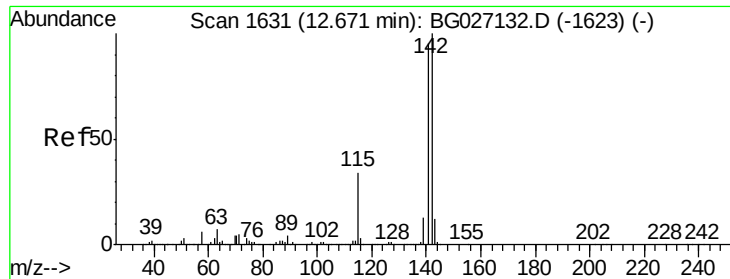
141 91.6 72.7 109.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 1.74 ng/ul

RT: 12.67 min Scan# 1631

Delta R.T. -0.00 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

Instrument :

BNA\_G

ClientSampled :

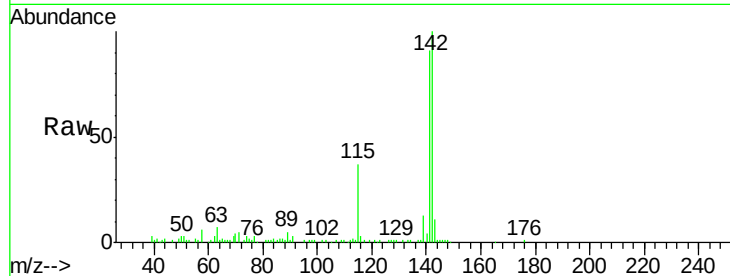
Tot Ion:142 Resp: 62675

Ion Ratio Lower Upper

142 100

141 91.1 79.3 118.9

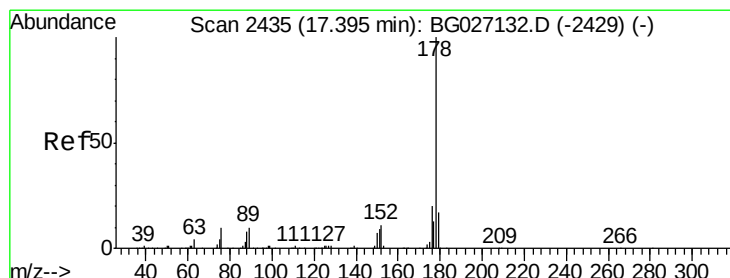
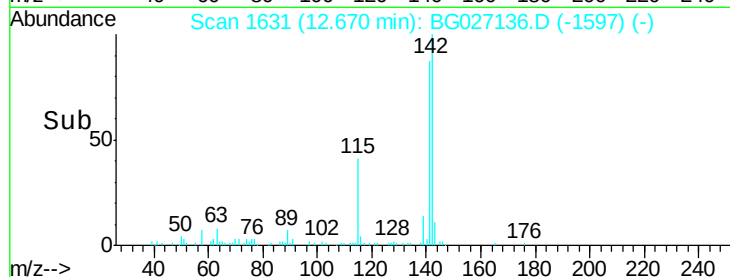
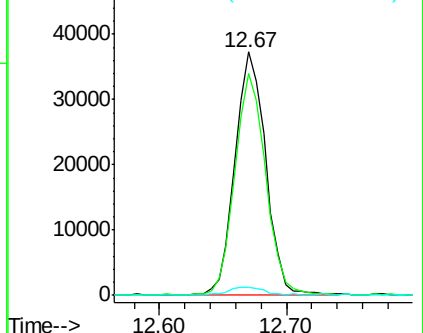
116 3.2 4.2 6.2#



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



#13

Phenanthrene

Concen: 4.40 ng/ul

RT: 17.39 min Scan# 2435

Delta R.T. -0.00 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

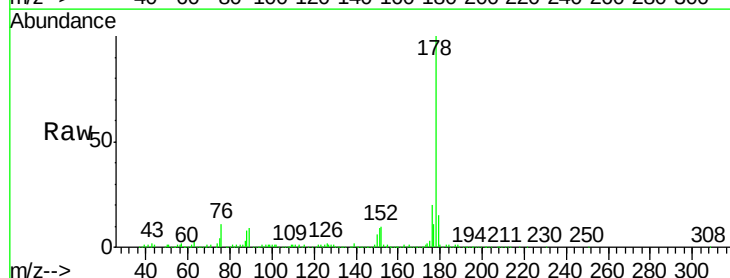
Tgt Ion:178 Resp: 197594

Ion Ratio Lower Upper

178 100

179 14.6 12.3 18.5

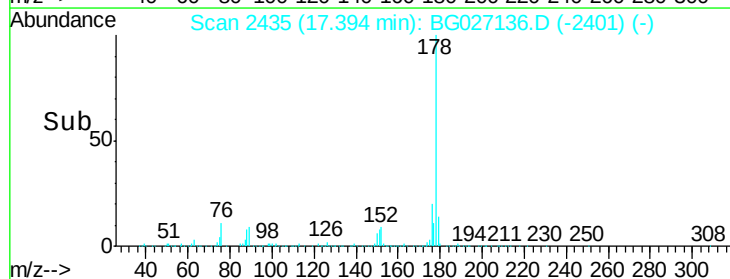
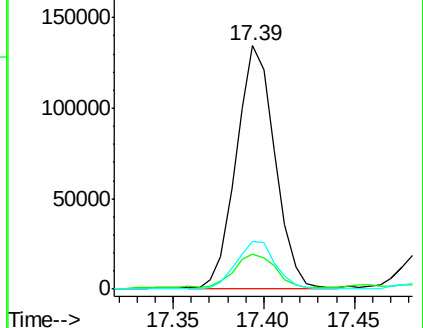
176 19.9 15.1 22.7

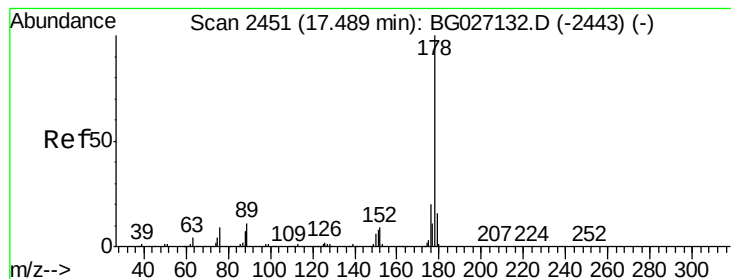


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Anthracene

Concen: 4.28 ng/ul

RT: 17.39 min Scan# 2435

Delta R.T. -0.09 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

Instrument :

BNA\_G

ClientSampleId :

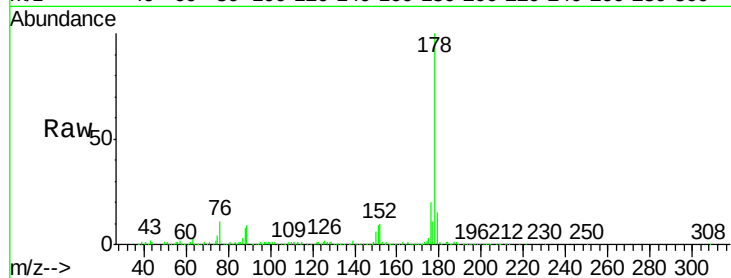
Tot Ion:178 Resp: 197892

Ion Ratio Lower Upper

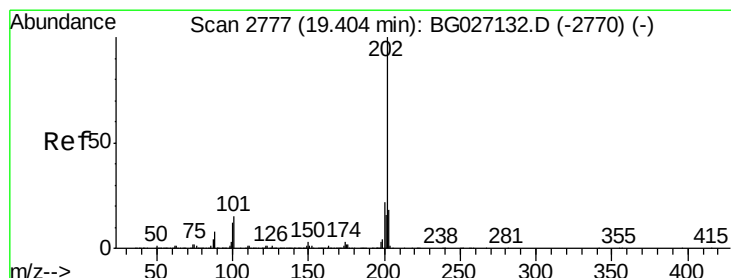
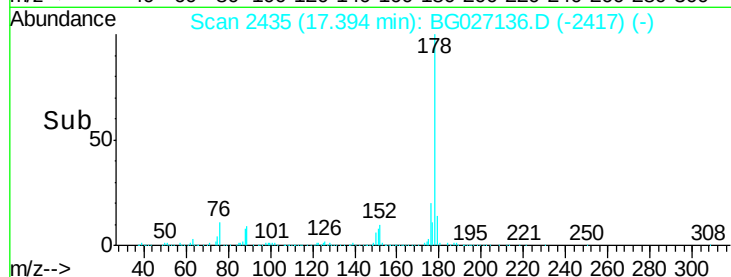
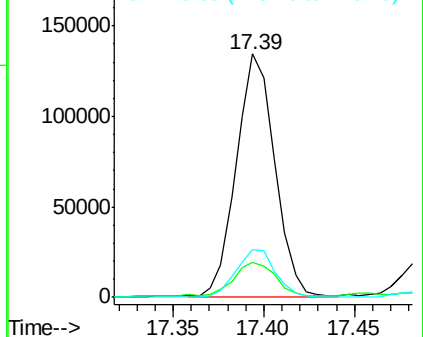
178 100

179 14.6 11.8 17.8

176 19.9 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: 7.99 ng/ul

RT: 19.40 min Scan# 2777

Delta R.T. -0.00 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

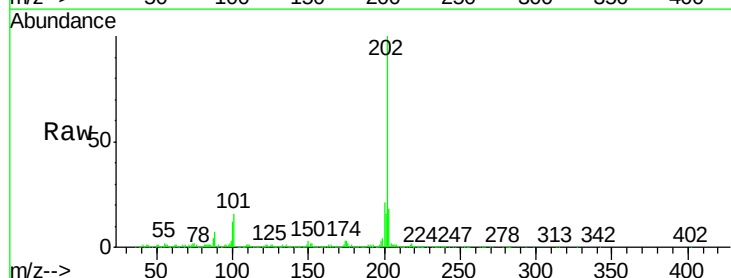
Tgt Ion:202 Resp: 367413

Ion Ratio Lower Upper

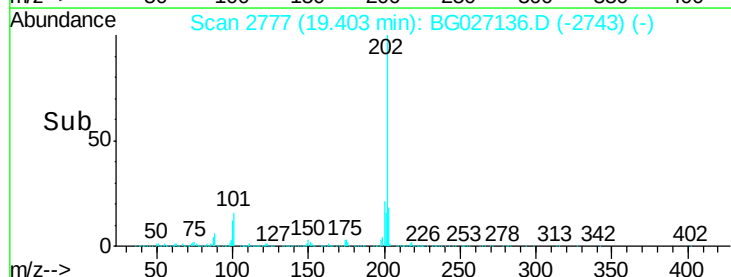
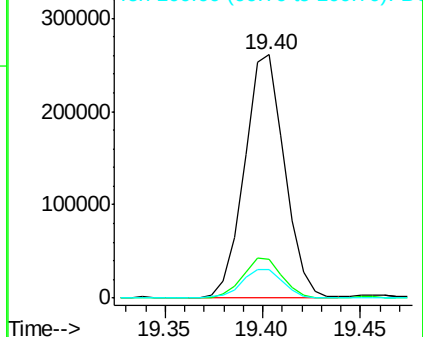
202 100

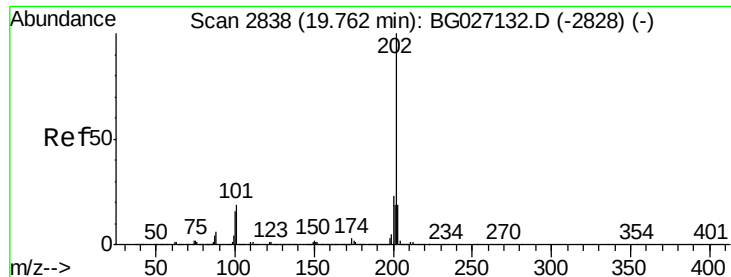
101 16.0 9.9 14.9#

100 11.8 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): B





#19

Pvrene

Concen: 7.60 ng/ul

RT: 19.76 min Scan# 2838

Delta R.T. -0.00 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

Instrument :

BNA\_G

ClientSampleId :

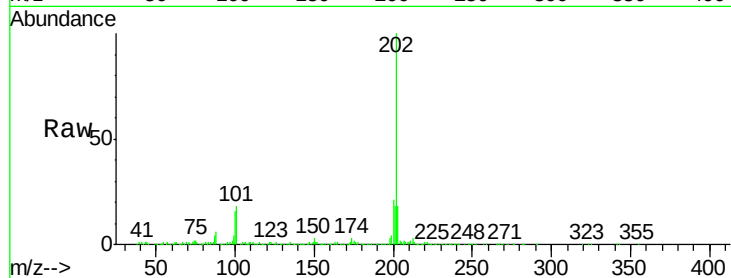
Tot Ion:202 Resp: 361819

Ion Ratio Lower Upper

202 100

101 17.9 11.0 16.4#

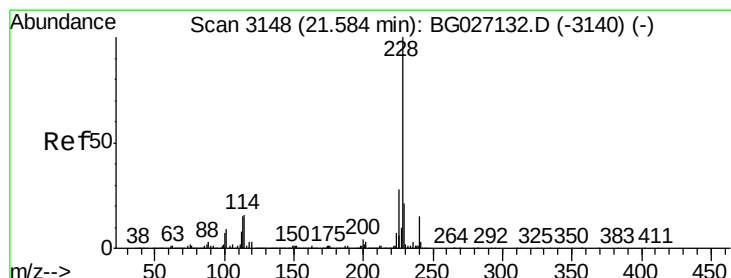
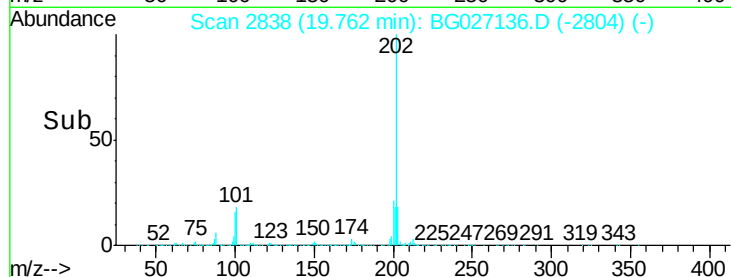
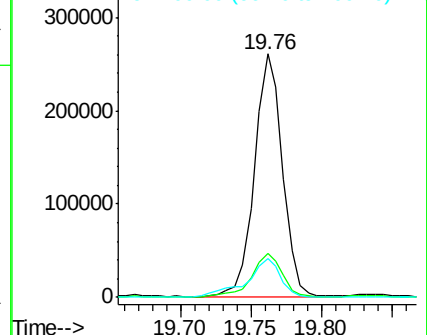
100 16.1 8.1 12.1#



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): B



#20

Benzo(a)anthracene

Concen: 4.40 ng/ul

RT: 21.58 min Scan# 3148

Delta R.T. -0.00 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

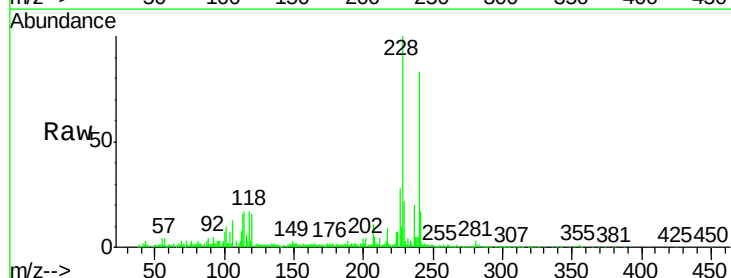
Tgt Ion:228 Resp: 193042

Ion Ratio Lower Upper

228 100

229 22.3 15.7 23.5

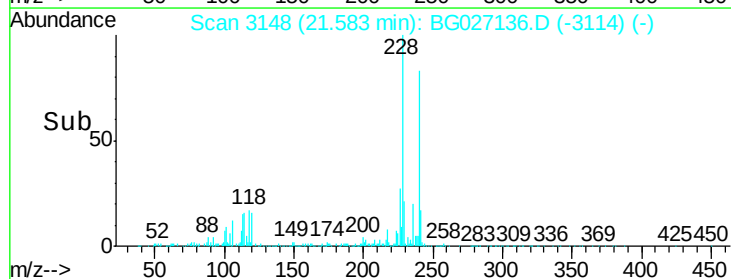
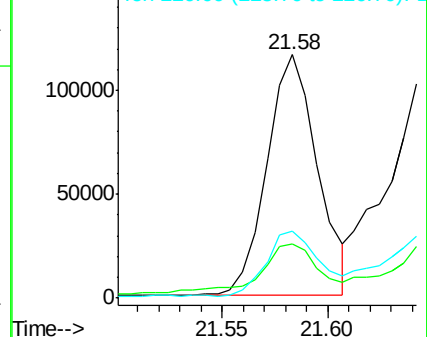
226 27.6 21.1 31.7

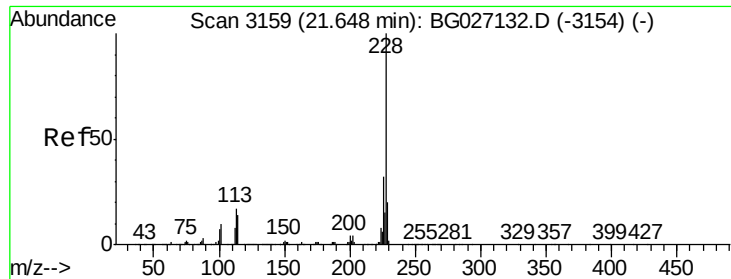


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#21

Chrysene

Concen: 5.42 ng/ul

RT: 21.65 min Scan# 3159

Delta R.T. -0.00 min

Lab File: BG027136.D

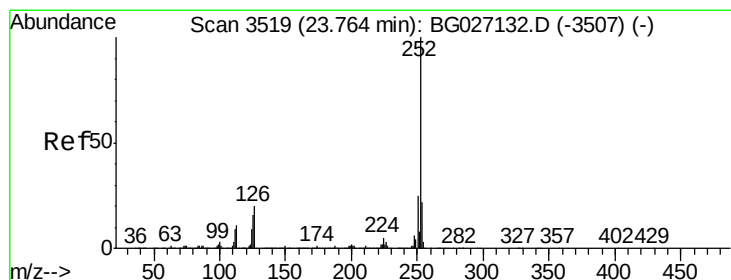
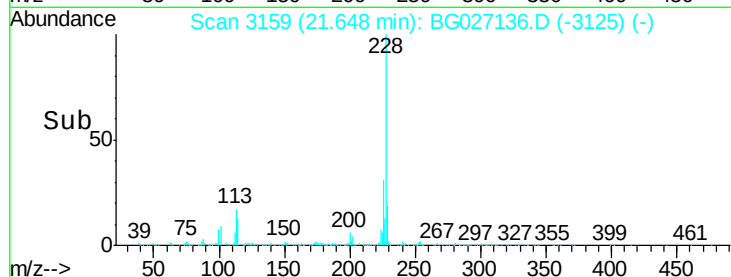
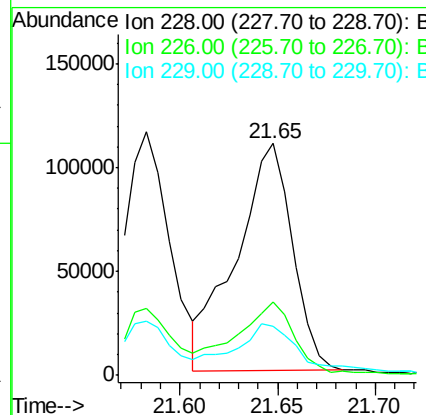
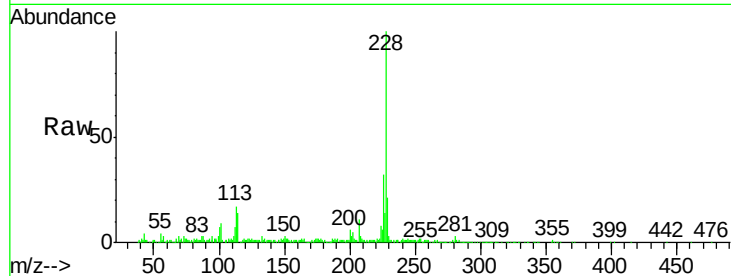
Acq: 24 May 2017 20:10

Instrument :

BNA\_G

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:228 | Resp: | 218338      |
| Ion         | Ratio | Lower Upper |
| 228         | 100   |             |
| 226         | 31.6  | 24.5 36.7   |
| 229         | 20.9  | 15.8 23.8   |



#23

Benzo(b)fluoranthene

Concen: 8.39 ng/ul

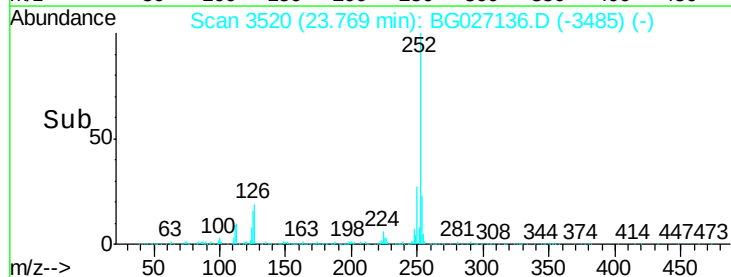
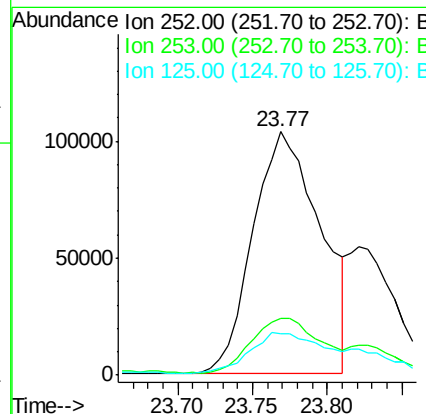
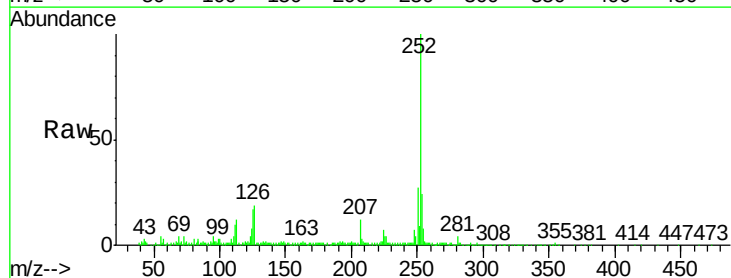
RT: 23.77 min Scan# 3520

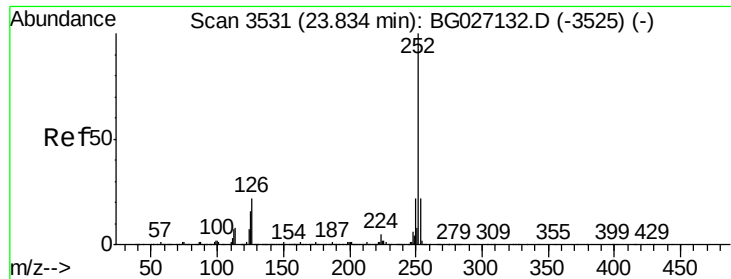
Delta R.T. 0.01 min

Lab File: BG027136.D

Acq: 24 May 2017 20:10

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:252 | Resp: | 325690      |
| Ion         | Ratio | Lower Upper |
| 252         | 100   |             |
| 253         | 23.5  | 18.0 27.0   |
| 125         | 16.8  | 8.0 12.0#   |

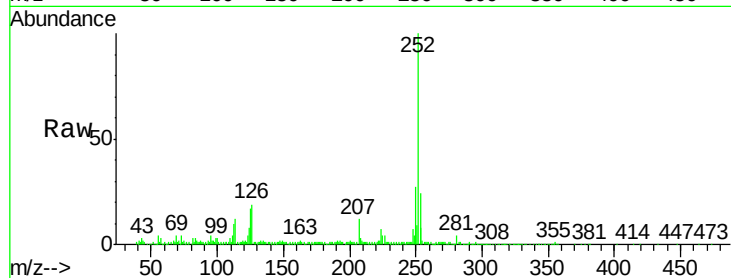




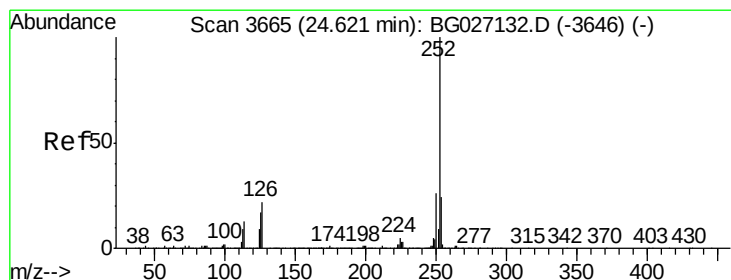
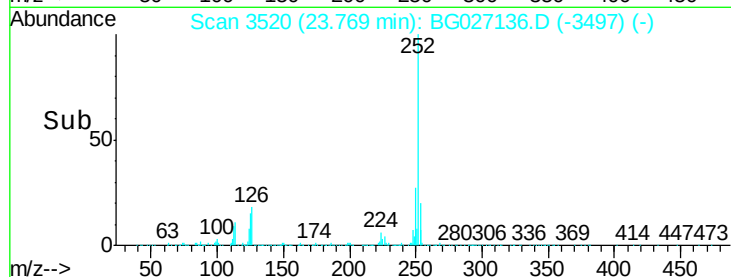
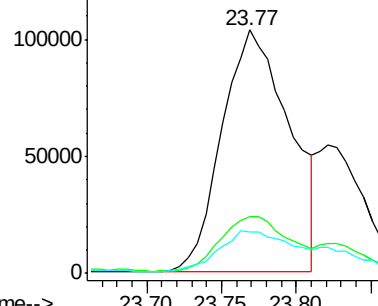
#24  
Benzo(k)fluoranthene  
Concen: 8.16 ng/ul  
RT: 23.77 min Scan# 3520  
Delta R.T. -0.07 min  
Lab File: BG027136.D  
Acq: 24 May 2017 20:10

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 18.0  | 27.0  |
| 125     | 16.8  | 8.1   | 12.1  |

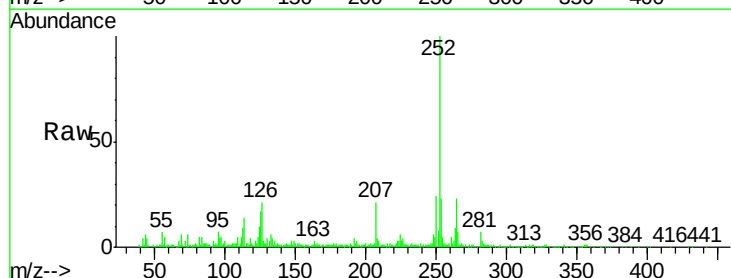


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

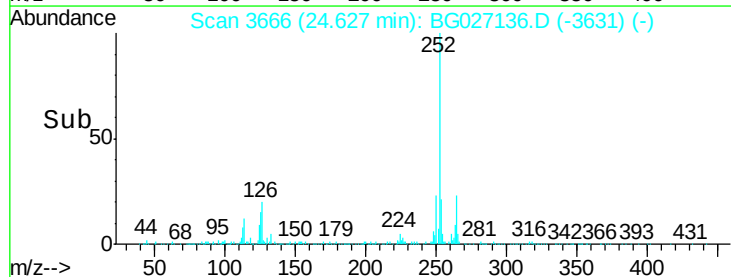
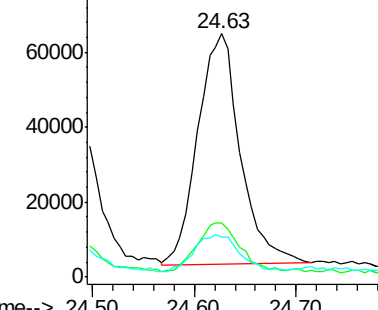


#26  
Benzo(a)pyrene  
Concen: 4.71 ng/ul  
RT: 24.63 min Scan# 3666  
Delta R.T. 0.01 min  
Lab File: BG027136.D  
Acq: 24 May 2017 20:10

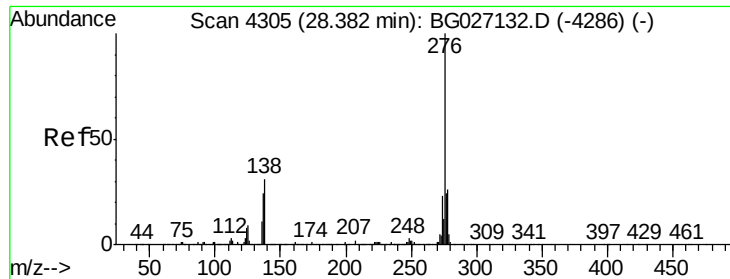
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.2  | 25.8  |
| 125     | 16.7  | 8.2   | 12.4  |



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



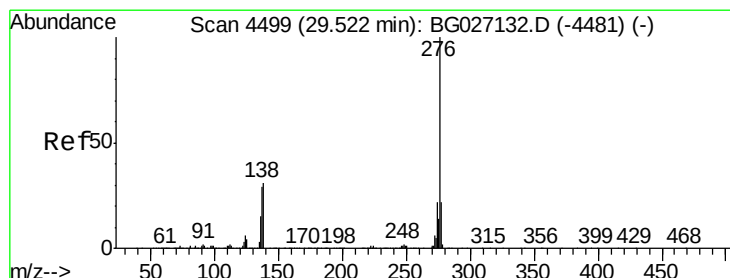
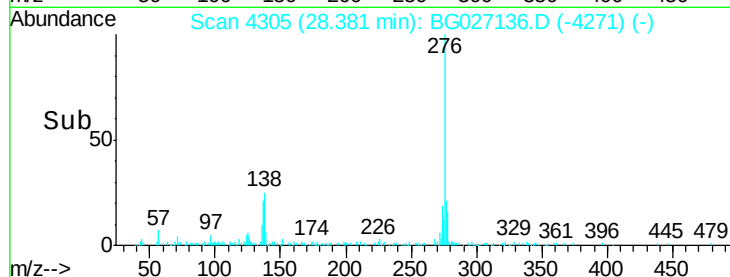
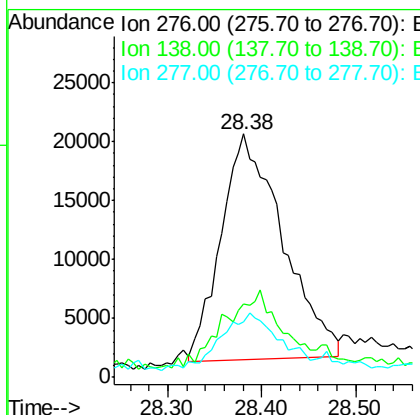
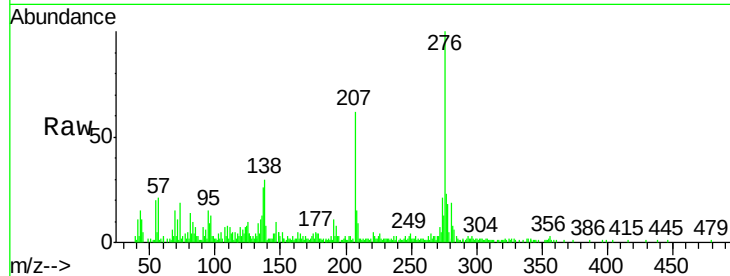




#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.50 ng/ul  
 RT: 28.38 min Scan# 4305  
 Delta R.T. -0.00 min  
 Lab File: BG027136.D  
 Acq: 24 May 2017 20:10

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.9  | 14.4  | 21.6# |
| 277     | 22.9  | 18.0  | 27.0  |



#29  
 Benzo(g,h,i)perylene  
 Concen: 1.12 ng/ul  
 RT: 29.50 min Scan# 4496  
 Delta R.T. -0.02 min  
 Lab File: BG027136.D  
 Acq: 24 May 2017 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.0  | 15.3  | 22.9# |
| 277     | 29.2  | 19.0  | 28.4# |

