

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052417\  
 Data File : BG027118.D  
 Acq On : 24 May 2017 6:24  
 Operator : SJ/MA  
 Sample : I3276-07  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC59

Manual Integrations  
 APPROVED

mohammad  
 5/24/2017 2:08:52 PM

Quant Time: May 24 08:01:52 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 24 01:50:08 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.00  | 152  | 250958   | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 10.81 | 136  | 1155894  | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 14.62 | 164  | 585062   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 17.35 | 188  | 1052490  | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 21.61 | 240  | 950470   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.78 | 264  | 849481   | 20.00 | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 14.32 | 160  | 982097   | 16.37 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 15.61 | 176  | 618864   | 15.46 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 17.45 | 188  | 833256m  | 16.24 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 19.74 | 212  | 817383   | 16.47 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.56 | 264  | 706485   | 16.74 | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 13) Phenanthrene            | 17.40 | 178  | 69628    | 1.18  | ng/ul  | Qvalue 99 |
| 16) Fluoranthene            | 19.40 | 202  | 119958   | 1.99  | ng/ul# | 92        |
| 19) Pyrene                  | 19.77 | 202  | 103538   | 1.67  | ng/ul# | 86        |
| 20) Benzo(a)anthracene      | 21.58 | 228  | 71764    | 1.25  | ng/ul  | 95        |
| 21) Chrysene                | 21.65 | 228  | 101663m  | 1.93  | ng/ul  |           |
| 23) Benzo(b)fluoranthene    | 23.77 | 252  | 159953   | 3.17  | ng/ul# | 89        |
| 26) Benzo(a)pyrene          | 24.62 | 252  | 73965    | 1.50  | ng/ul# | 84        |

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

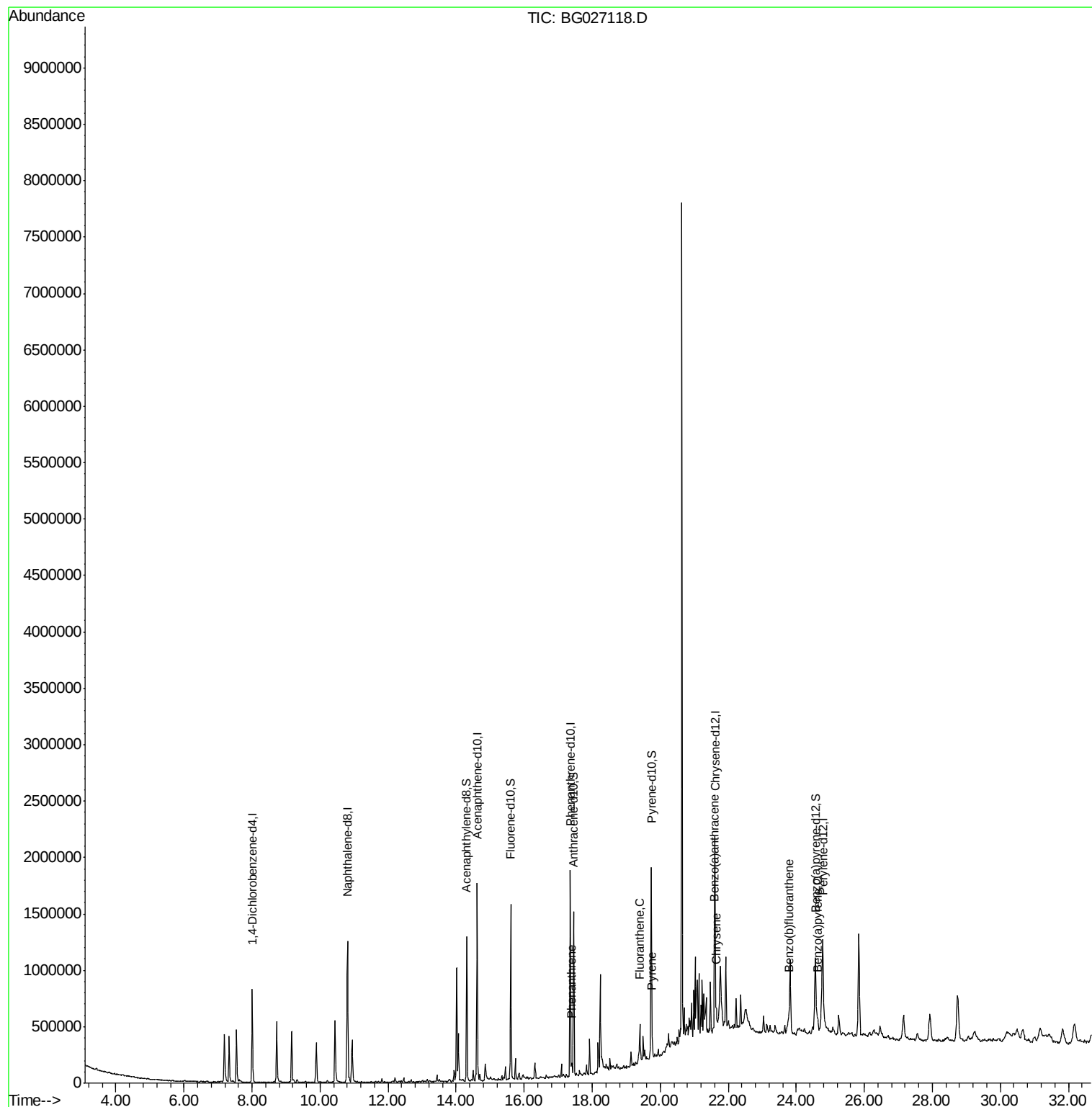
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052417\  
Data File : BG027118.D  
Acq On : 24 May 2017 6:24  
Operator : SJ/MA  
Sample : I3276-07  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

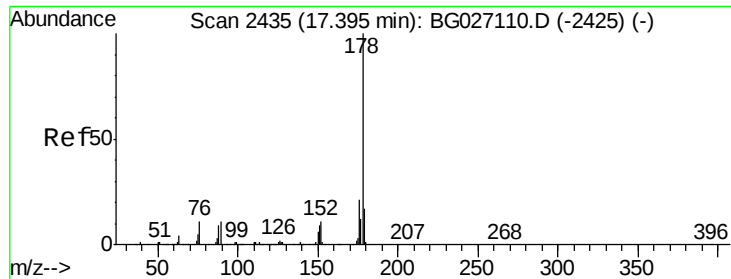
Instrument :  
BNA\_G  
ClientSampleId :  
DAC59

Manual Integrations  
APPROVED

mohammad  
5/24/2017 2:08:52 PM

Quant Time: May 24 08:01:52 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 24 01:50:08 2017  
Response via : Initial Calibration





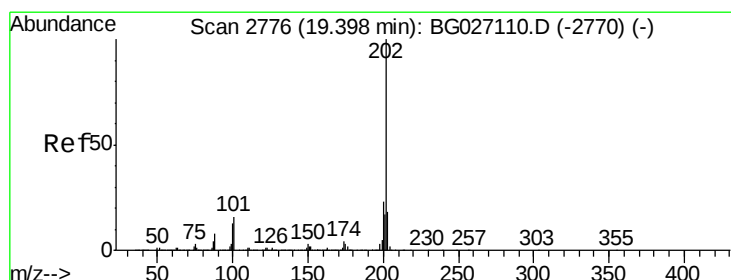
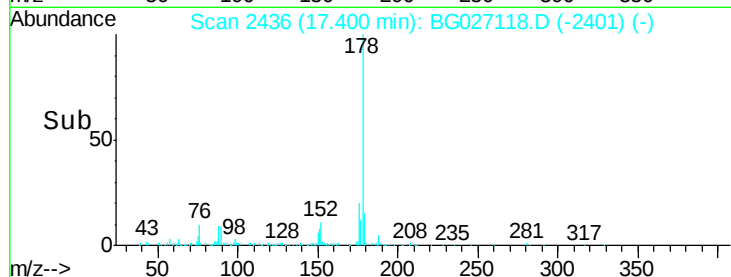
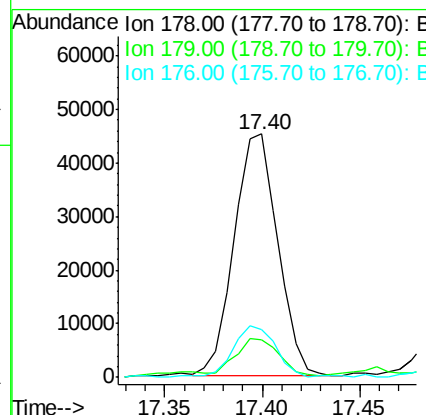
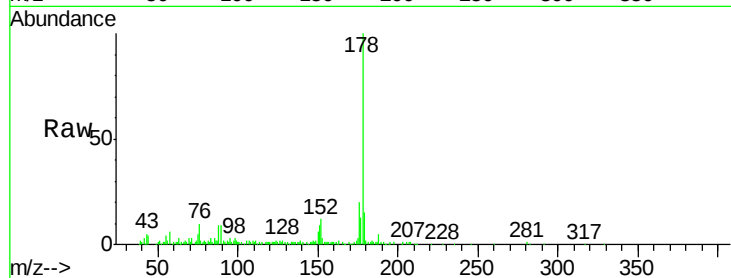
#13  
Phenanthrene  
Concen: 1.18 ng/ul  
RT: 17.40 min Scan# 2436  
Delta R.T. 0.00 min  
Lab File: BG027118.D  
Acq: 24 May 2017 6:24

Instrument :  
BNA\_G  
ClientSampleId :  
DAC59

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 179     | 15.3  | 12.3       | 18.5       |
| 176     | 19.9  | 15.1       | 22.7       |

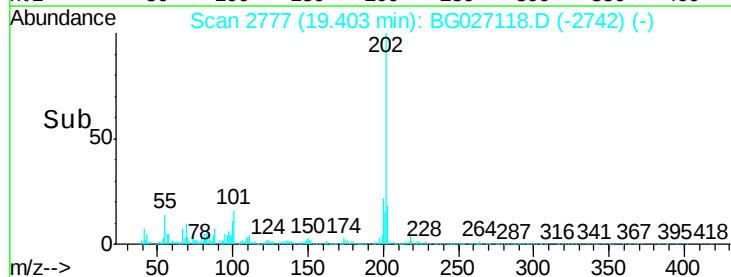
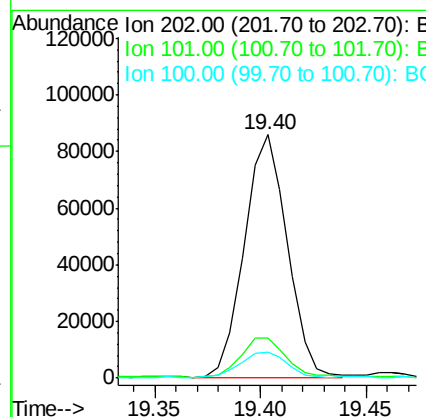
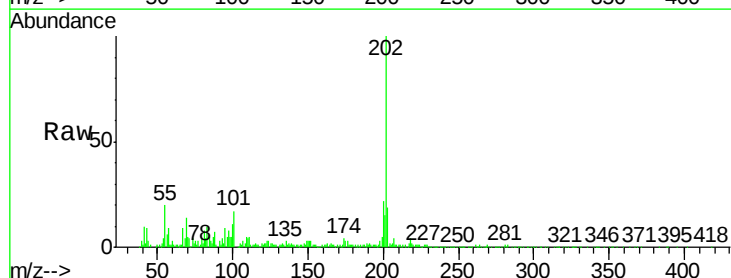
Manual Integrations  
APPROVED

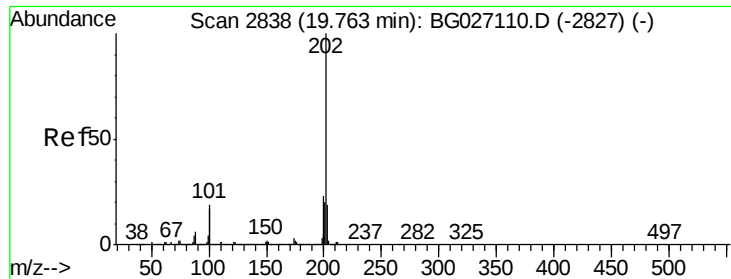
mohammad  
5/24/2017 2:08:52 PM



#16  
Fluoranthene  
Concen: 1.99 ng/ul  
RT: 19.40 min Scan# 2777  
Delta R.T. 0.00 min  
Lab File: BG027118.D  
Acq: 24 May 2017 6:24

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 16.7  | 9.9        | 14.9#      |
| 100     | 10.9  | 7.4        | 11.0       |





#19

Pyrene

Concen: 1.67 ng/ul

RT: 19.77 min Scan# 2839

Delta R.T. 0.00 min

Lab File: BG027118.D

Acq: 24 May 2017 6:24

Instrument :

BNA\_G

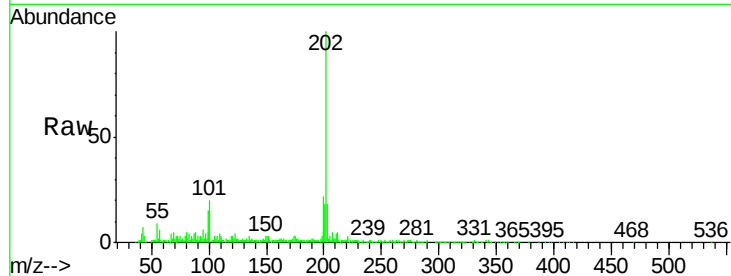
ClientSampleId :

DAC59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 103538 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 19.5  | 11.0  | 16.4#  |
| 100       | 15.0  | 8.1   | 12.1#  |

Manual Integrations  
APPROVED

mohammad  
5/24/2017 2:08:52 PM

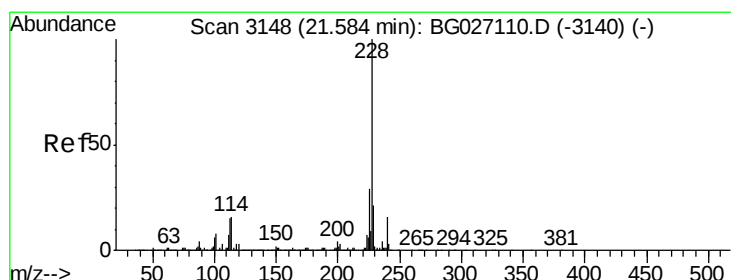
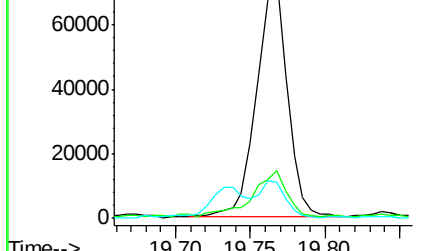
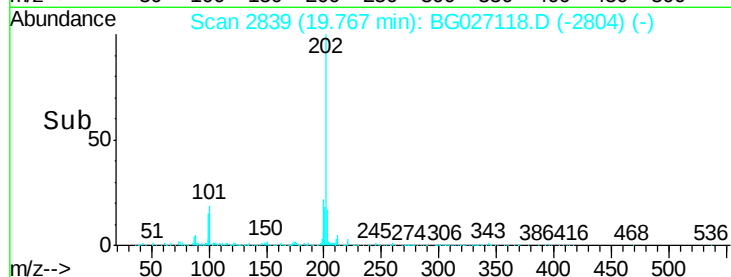


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

Time-->



#20

Benzo(a)anthracene

Concen: 1.25 ng/ul

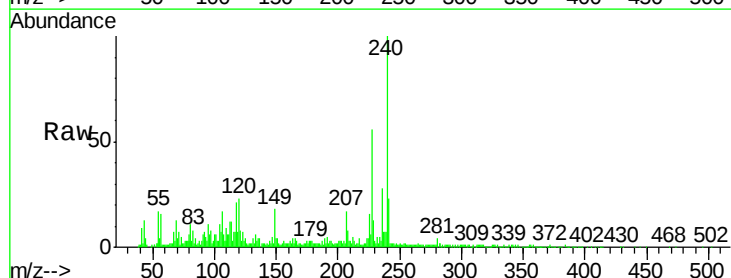
RT: 21.58 min Scan# 3148

Delta R.T. -0.00 min

Lab File: BG027118.D

Acq: 24 May 2017 6:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 71764 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 23.1  | 15.7  | 23.5  |
| 226       | 28.2  | 21.1  | 31.7  |

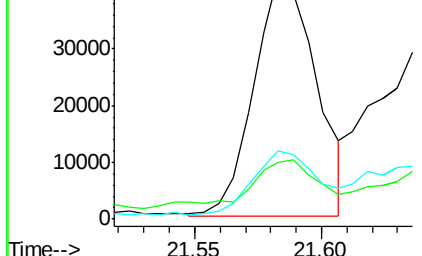
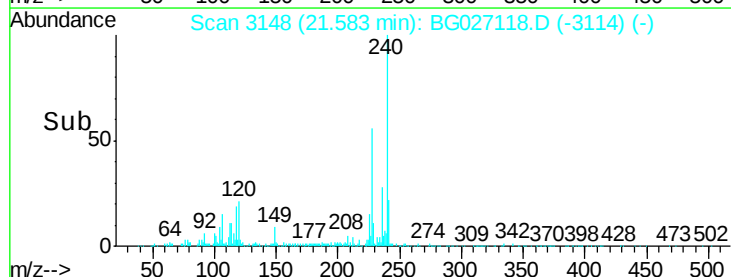


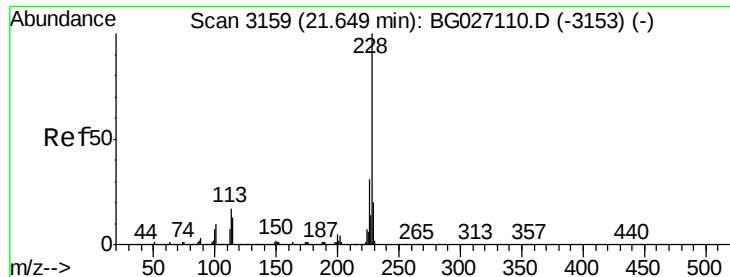
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

Time-->





#21

Chrysene

Concen: 1.93 ng/ul m

RT: 21.65 min Scan# 3159

Delta R.T. -0.00 min

Lab File: BG027118.D

Acq: 24 May 2017 6:24

Instrument :

BNA\_G

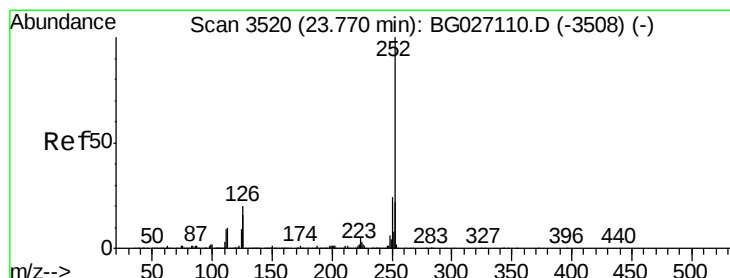
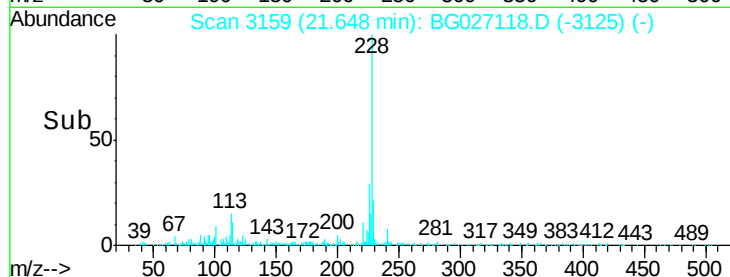
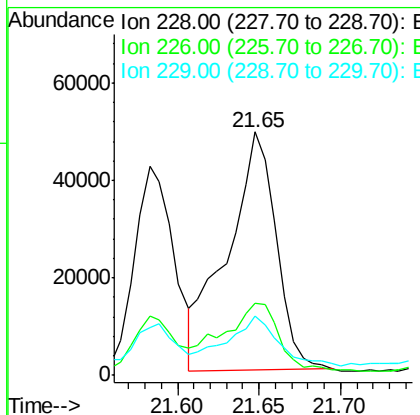
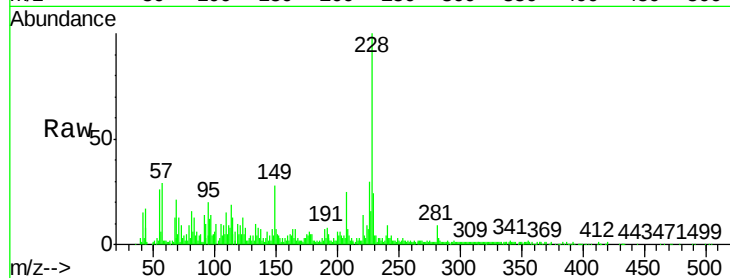
ClientSampleId :

DAC59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 101663 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.5  | 24.5  | 36.7   |
| 229       | 24.2  | 15.8  | 23.8#  |

Manual Integrations  
APPROVED

mohammad  
5/24/2017 2:08:52 PM



#23

Benzo(b)fluoranthene

Concen: 3.17 ng/ul

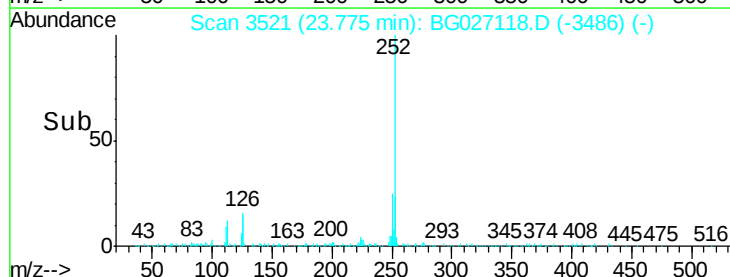
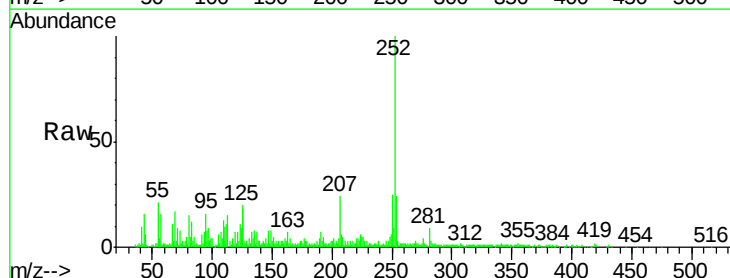
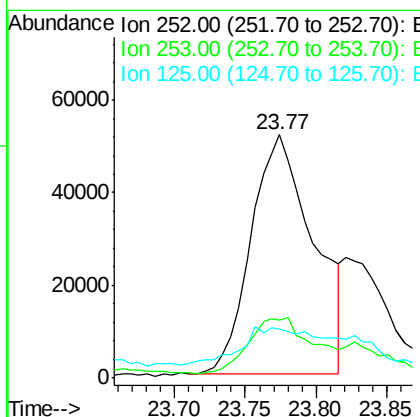
RT: 23.77 min Scan# 3521

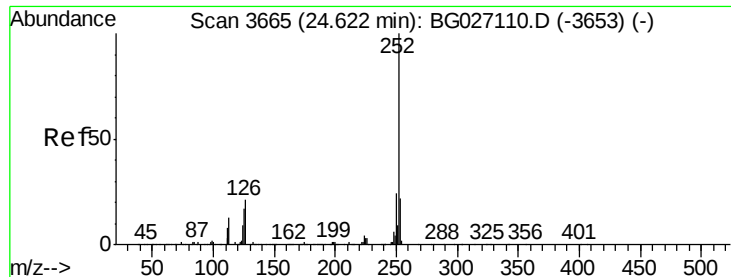
Delta R.T. 0.00 min

Lab File: BG027118.D

Acq: 24 May 2017 6:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 159953 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.0  | 18.0  | 27.0   |
| 125       | 20.1  | 8.0   | 12.0#  |





#26  
Benzo(a)pyrene  
Concen: 1.50 ng/ul  
RT: 24.62 min Scan# 3665  
Delta R.T. -0.00 min  
Lab File: BG027118.D  
Acq: 24 May 2017 6:24

Instrument :  
BNA\_G  
ClientSampleId :  
DAC59

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.9  | 17.2       | 25.8       |
| 125     | 24.7  | 8.2        | 12.4       |

Manual Integrations  
APPROVED

mohammad  
5/24/2017 2:08:52 PM

