

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG031317\  
 Data File : BG026219.D  
 Acq On : 13 Mar 2017 19:48  
 Operator : SJ/MA  
 Sample : I2217-16  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB2Y7

Manual Integrations  
 APPROVED

mohammad  
 3/16/2017 10:52:23 AM

Quant Time: Mar 15 17:43:10 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG030317-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Mar 15 17:21:10 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.06  | 152  | 79212    | 20.00 | ng/ul  | -0.02    |
| 2) Naphthalene-d8           | 10.86 | 136  | 386579   | 20.00 | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.66 | 164  | 243478   | 20.00 | ng/ul  | -0.01    |
| 12) Phenanthrene-d10        | 17.39 | 188  | 592069   | 20.00 | ng/ul  | -0.01    |
| 18) Chrysene-d12            | 21.63 | 240  | 608926   | 20.00 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 24.82 | 264  | 587338   | 20.00 | ng/ul  | -0.03    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.48 | 165  | 90935    | 15.88 | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.35 | 160  | 535103   | 25.78 | ng/ul  | -0.01    |
| 10) Fluorene-d10            | 15.65 | 176  | 402224   | 26.56 | ng/ul  | -0.01    |
| 15) Anthracene-d10          | 17.49 | 188  | 596731   | 22.68 | ng/ul  | -0.02    |
| 19) Pyrene-d10              | 19.77 | 212  | 675145   | 21.73 | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.60 | 264  | 616584   | 24.34 | ng/ul  | -0.02    |
| Target Compounds            |       |      |          |       |        |          |
| 9) Acenaphthene             | 14.72 | 153  | 15708    | 1.05  | ng/ul# | 89       |
| 14) Phenanthrene            | 17.43 | 178  | 280305   | 8.93  | ng/ul  | 99       |
| 16) Anthracene              | 17.52 | 178  | 48960    | 1.54  | ng/ul  | 98       |
| 17) Fluoranthene            | 19.43 | 202  | 442544   | 13.59 | ng/ul  | 98       |
| 20) Pyrene                  | 19.79 | 202  | 363024   | 9.36  | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.62 | 228  | 192876   | 5.69  | ng/ul  | 96       |
| 22) Chrysene                | 21.68 | 228  | 190766   | 6.03  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.81 | 252  | 250485   | 7.51  | ng/ul# | 96       |
| 25) Benzo(k)fluoranthene    | 23.87 | 252  | 87785m   | 2.76  | ng/ul  |          |
| 27) Benzo(a)pyrene          | 24.67 | 252  | 136786   | 4.41  | ng/ul  | 97       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.44 | 276  | 112139   | 3.28  | ng/ul  | 93       |
| 29) Dibenzo(a,h)anthracene  | 28.48 | 278  | 29501m   | 1.09  | ng/ul  |          |
| 30) Benzo(g,h,i)perylene    | 29.57 | 276  | 100744   | 3.44  | ng/ul  | 95       |

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

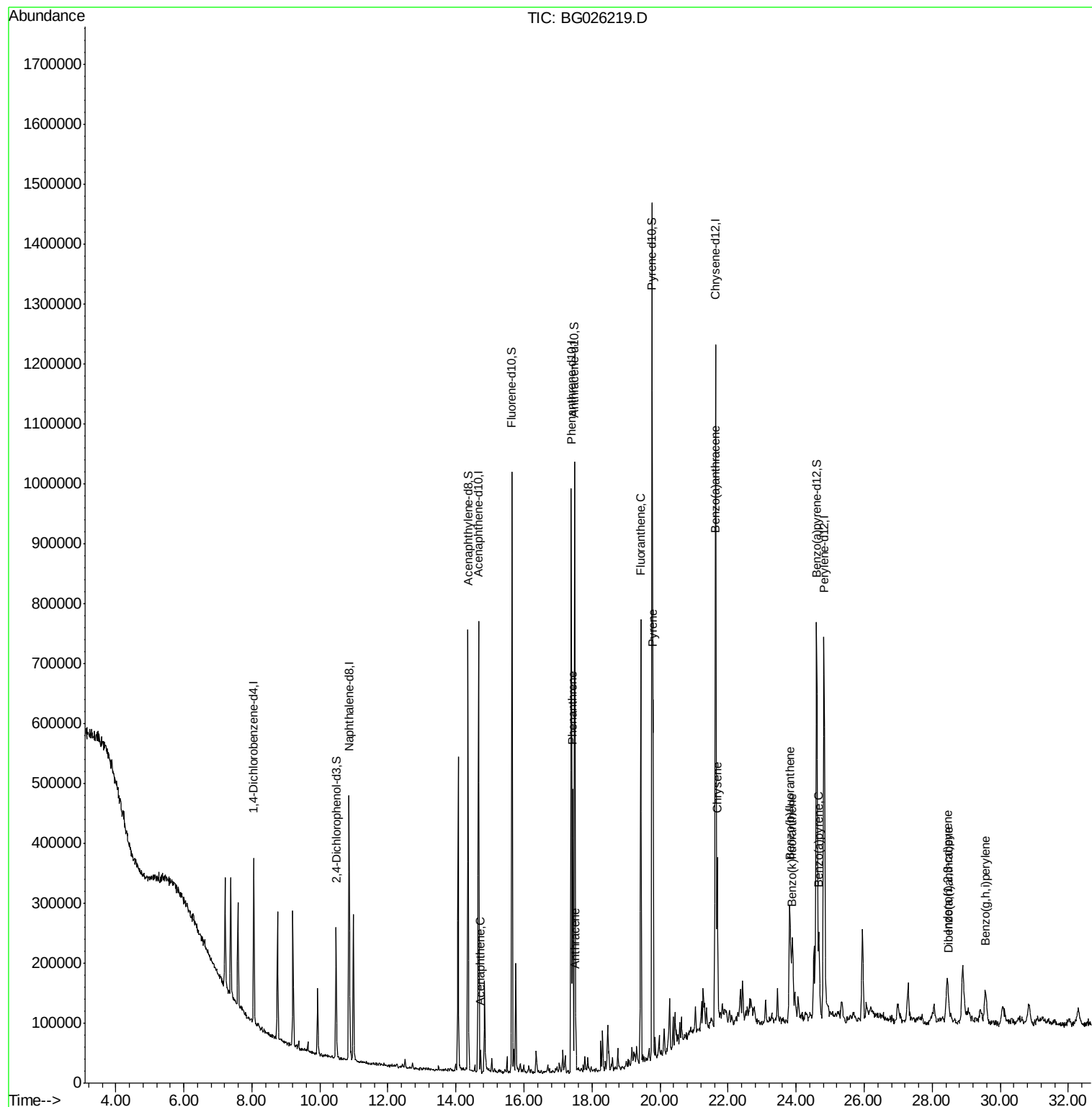
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG031317\  
Data File : BG026219.D  
Acq On : 13 Mar 2017 19:48  
Operator : SJ/MA  
Sample : I2217-16  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

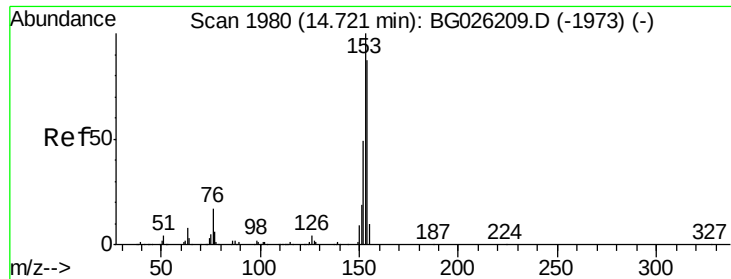
Instrument :  
BNA\_G  
ClientSampleId :  
CB2Y7

Manual Integrations  
APPROVED

mohammad  
3/16/2017 10:52:23 AM

Quant Time: Mar 15 17:43:10 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG030317-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 15 17:21:10 2017  
Response via : Initial Calibration





#9

Acenaphthene

Concen: 1.05 ng/ul

RT: 14.72 min Scan# 1980

Delta R.T. -0.01 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

Instrument :

BNA\_G

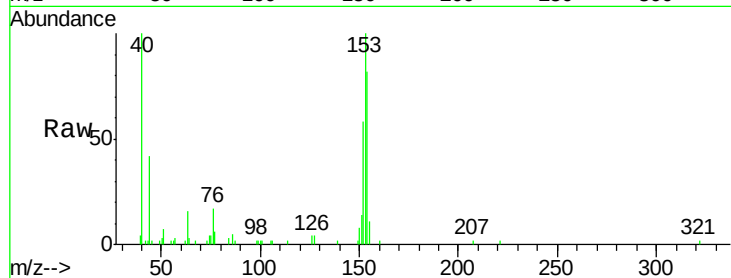
ClientSampleId :

CB2Y7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 15708 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 57.9  | 37.9  | 56.9# |
| 154       | 82.2  | 71.6  | 107.4 |

Manual Integrations  
APPROVED

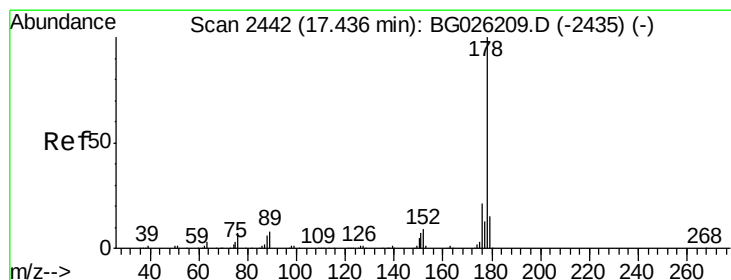
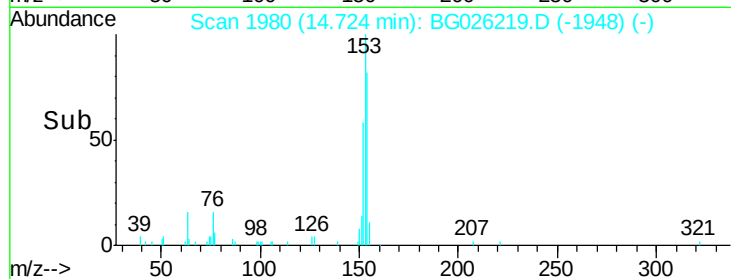
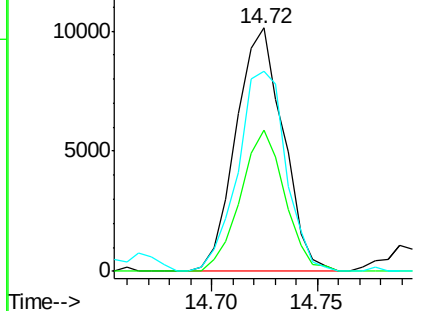
mohammad  
3/16/2017 10:52:23 AM



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



#14

Phenanthrene

Concen: 8.93 ng/ul

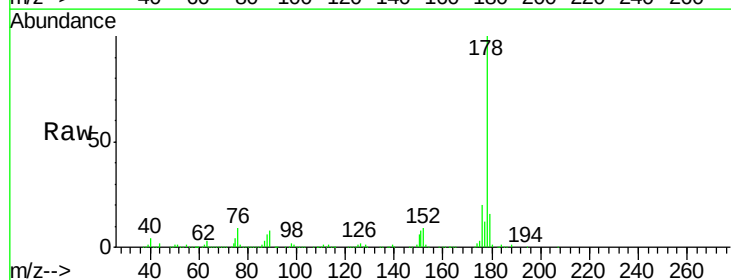
RT: 17.43 min Scan# 2441

Delta R.T. -0.01 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

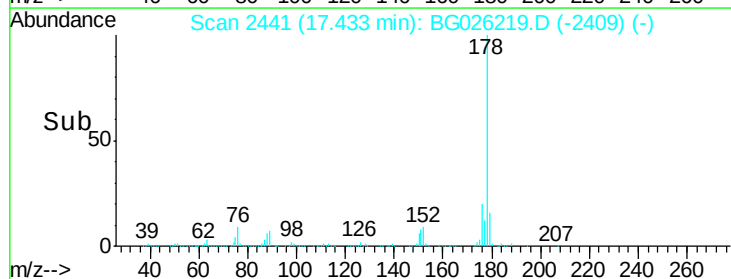
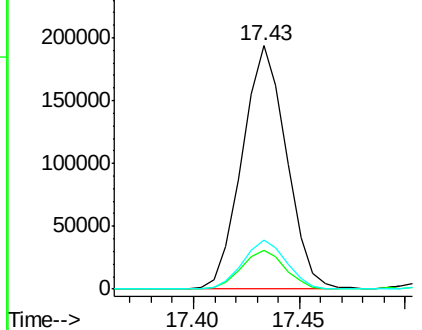
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 280305 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.8  | 12.2  | 18.4   |
| 176       | 20.4  | 16.4  | 24.6   |

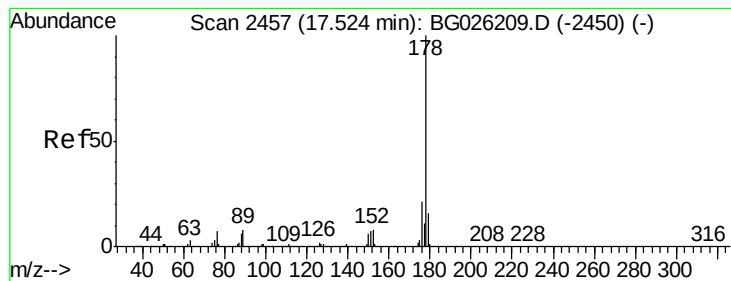


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#16

Anthracene

Concen: 1.54 ng/ul

RT: 17.52 min Scan# 2456

Delta R.T. -0.01 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

Instrument :

BNA\_G

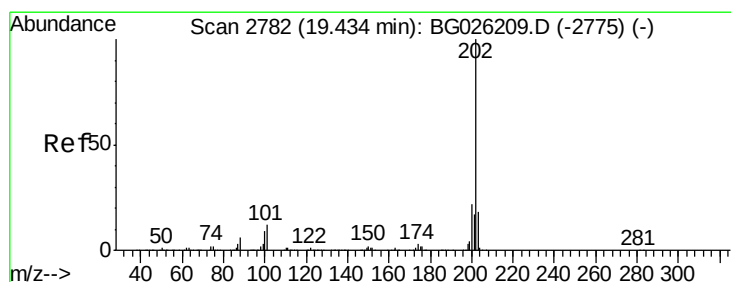
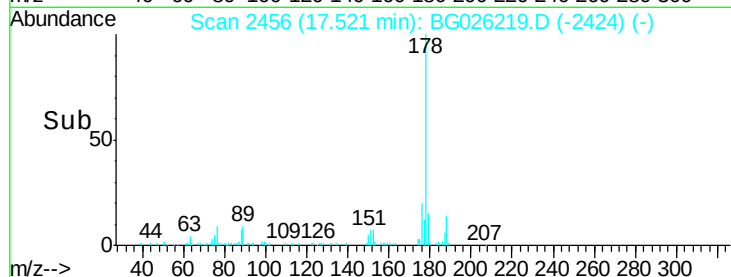
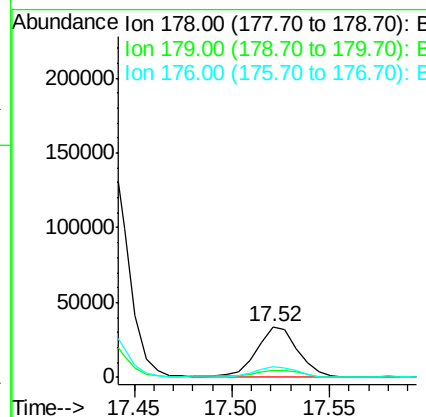
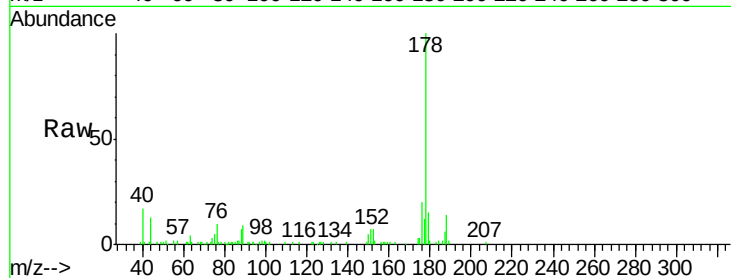
ClientSampleId :

CB2Y7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 48960 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 14.6  | 12.7  | 19.1  |
| 176       | 20.3  | 15.8  | 23.8  |

Manual Integrations  
APPROVED

mohammad  
3/16/2017 10:52:23 AM



#17

Fluoranthene

Concen: 13.59 ng/ul

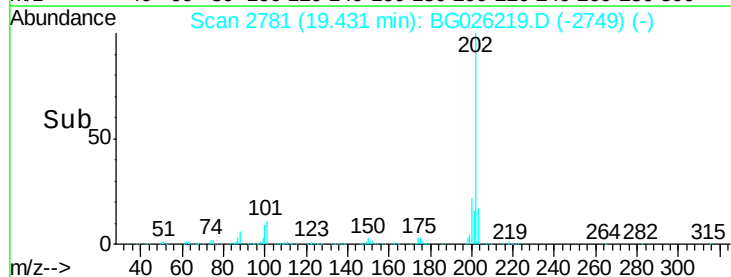
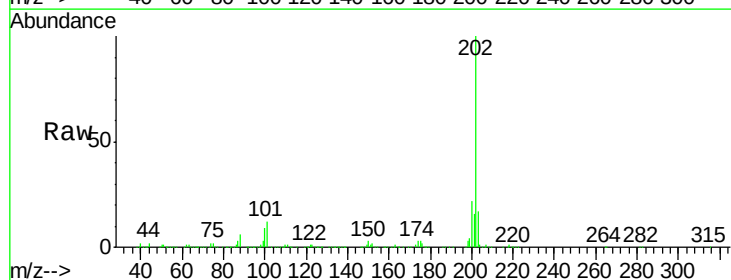
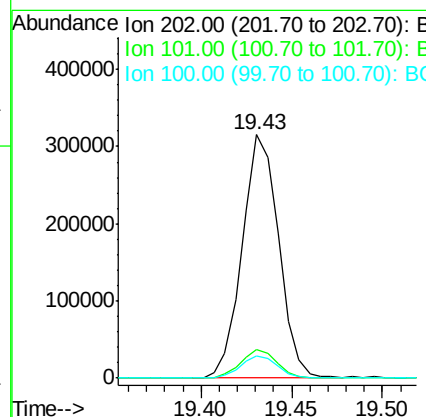
RT: 19.43 min Scan# 2781

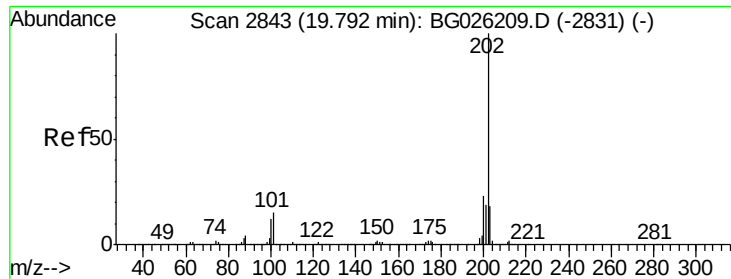
Delta R.T. -0.01 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 442544 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.5  | 9.8   | 14.8   |
| 100       | 9.1   | 7.5   | 11.3   |





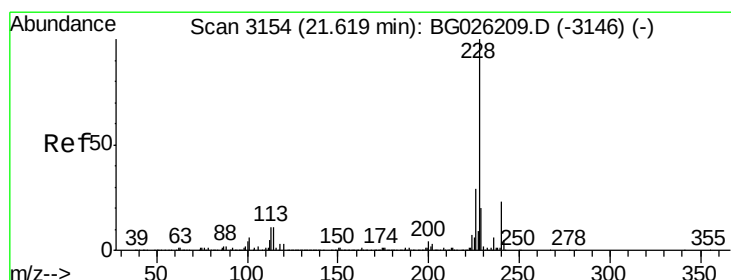
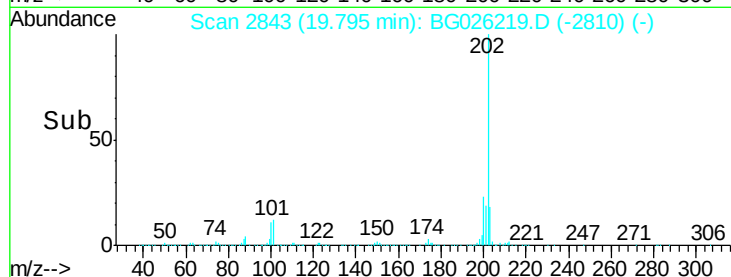
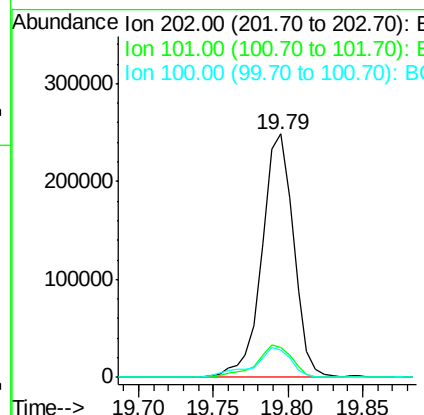
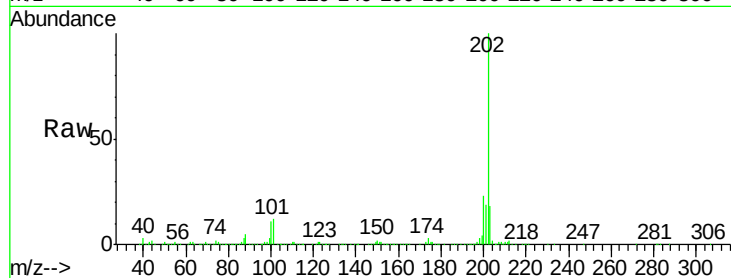
#20  
Pyrene  
Concen: 9.36 ng/ul  
RT: 19.79 min Scan# 2843  
Delta R.T. -0.01 min  
Lab File: BG026219.D  
Acq: 13 Mar 2017 19:48

Instrument :  
BNA\_G  
ClientSampleId :  
CB2Y7

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 363024 |       |       |
| 101     | 12.5  | 11.2   | 16.8  |       |
| 100     | 11.1  | 9.8    | 14.6  |       |

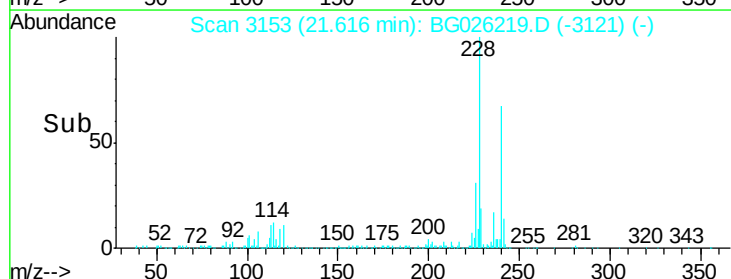
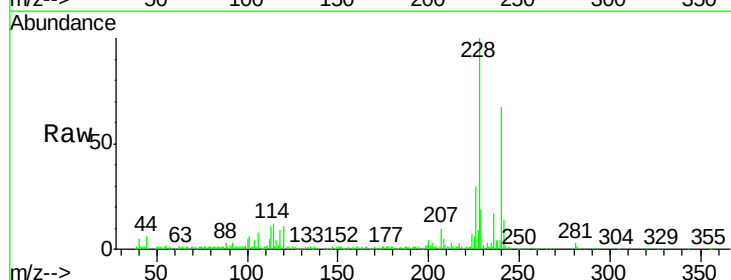
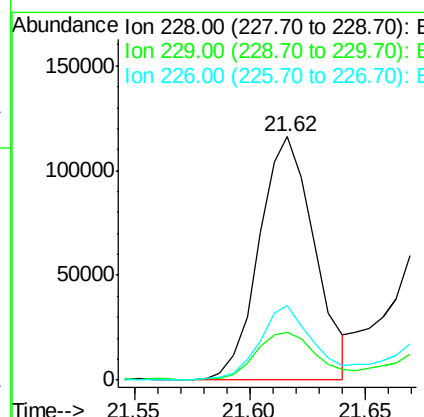
Manual Integrations  
APPROVED

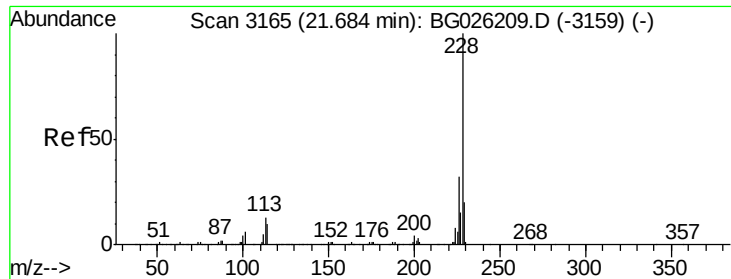
mohammad  
3/16/2017 10:52:23 AM



#21  
Benzo(a)anthracene  
Concen: 5.69 ng/ul  
RT: 21.62 min Scan# 3153  
Delta R.T. -0.01 min  
Lab File: BG026219.D  
Acq: 13 Mar 2017 19:48

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 192876 |       |       |
| 229     | 19.4  | 15.9   | 23.9  |       |
| 226     | 30.4  | 22.1   | 33.1  |       |





#22

Chrysene

Concen: 6.03 ng/ul

RT: 21.68 min Scan# 3164

Delta R.T. -0.01 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

Instrument :

BNA\_G

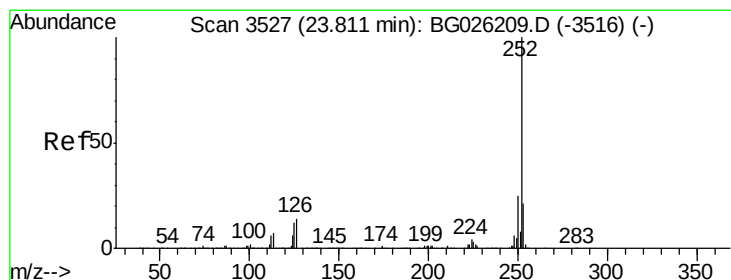
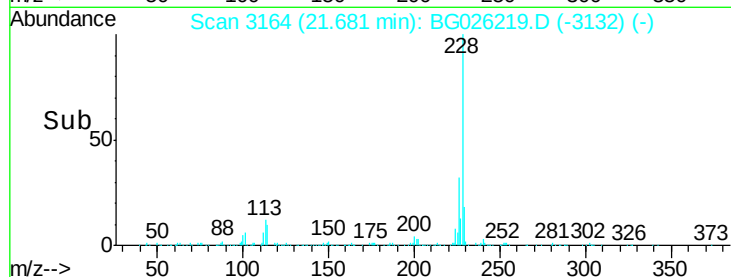
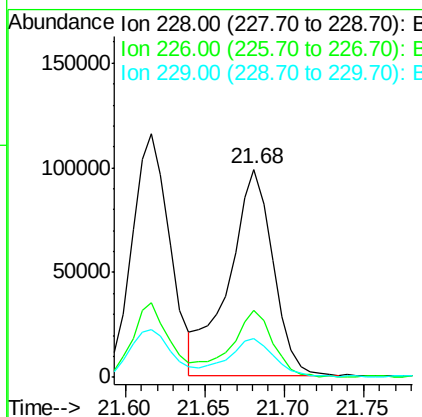
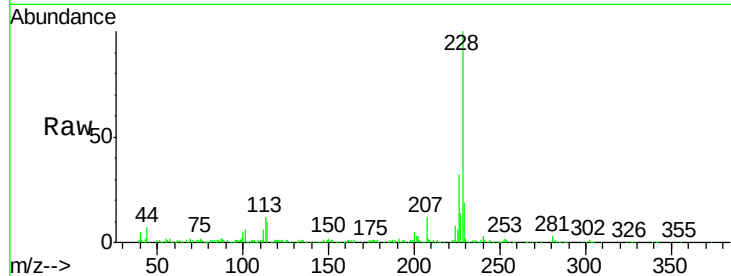
ClientSampleId :

CB2Y7

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 228  | Resp: | 190766 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 32.0 | 25.0  | 37.6   |
| 229       | 18.6 | 16.6  | 25.0   |

Manual Integrations  
APPROVED

mohammad  
3/16/2017 10:52:23 AM



#24

Benzo(b)fluoranthene

Concen: 7.51 ng/ul

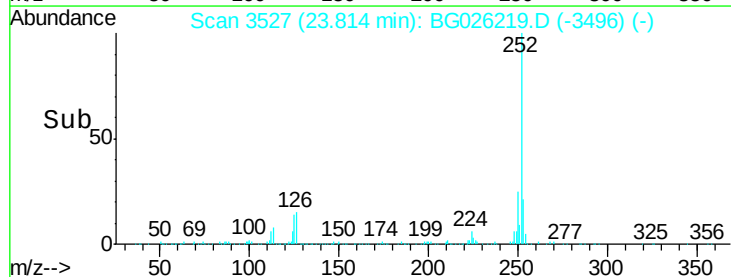
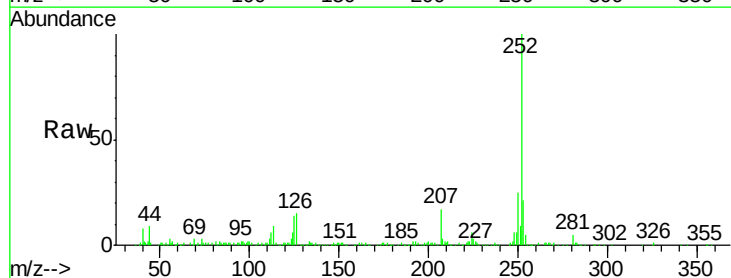
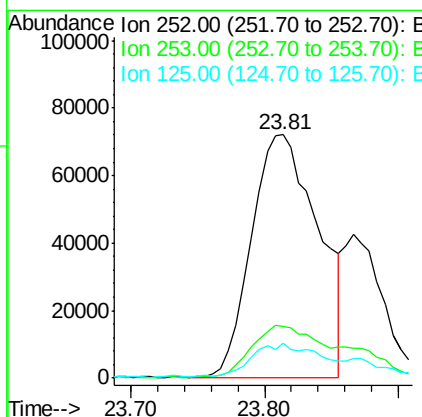
RT: 23.81 min Scan# 3527

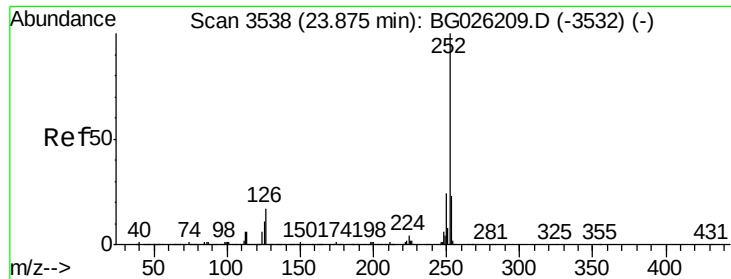
Delta R.T. -0.02 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 250485 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 21.4 | 17.8  | 26.6   |
| 125       | 14.4 | 9.4   | 14.0#  |





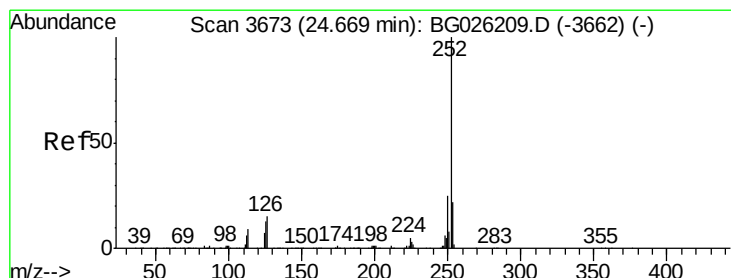
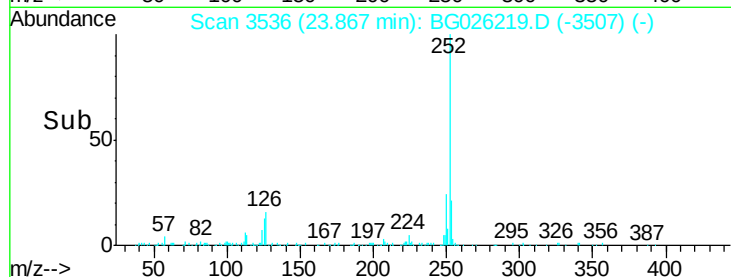
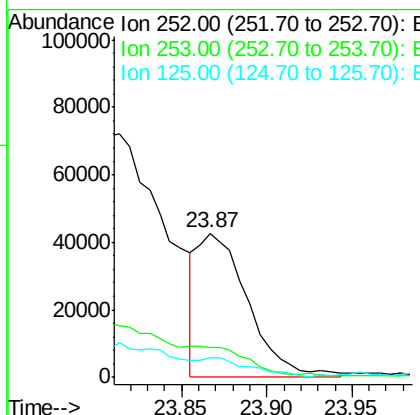
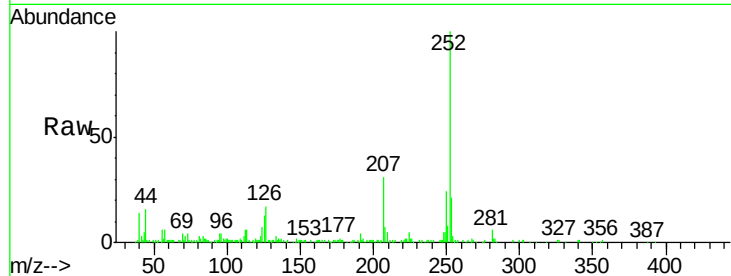
#25  
Benzo(k)fluoranthene  
Concen: 2.76 ng/ul m  
RT: 23.87 min Scan# 3536  
Delta R.T. -0.03 min  
Lab File: BG026219.D  
Acq: 13 Mar 2017 19:48

Instrument :  
BNA\_G  
ClientSampled :  
CB2Y7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.1  | 17.4  | 26.2  |
| 125     | 13.5  | 8.8   | 13.2  |

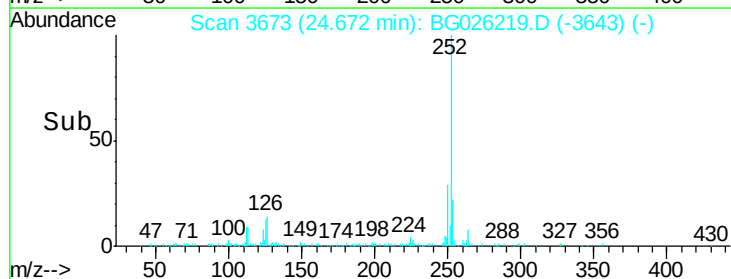
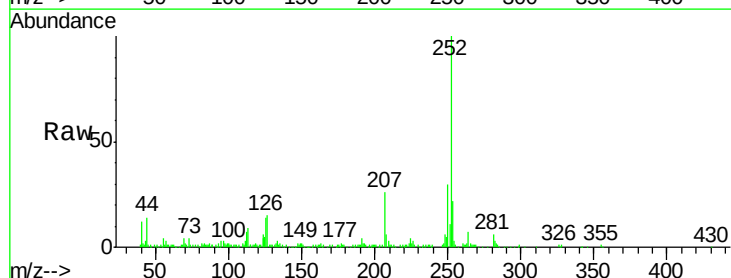
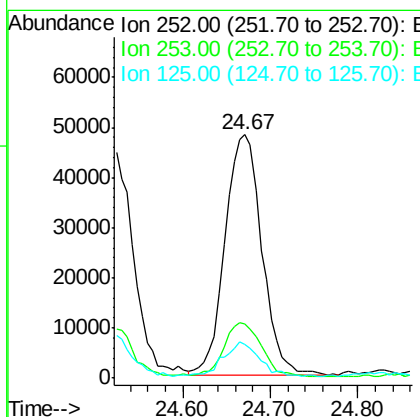
Manual Integrations  
APPROVED

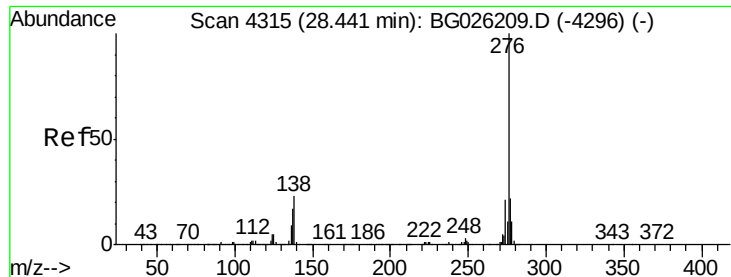
mohammad  
3/16/2017 10:52:23 AM



#27  
Benzo(a)pyrene  
Concen: 4.41 ng/ul  
RT: 24.67 min Scan# 3673  
Delta R.T. -0.02 min  
Lab File: BG026219.D  
Acq: 13 Mar 2017 19:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.1  | 25.7  |
| 125     | 13.9  | 9.4   | 14.2  |





#28

Indeno(1,2,3-cd)pyrene

Concen: 3.28 ng/ul

RT: 28.44 min Scan# 4315

Delta R.T. -0.04 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

Instrument :

BNA\_G

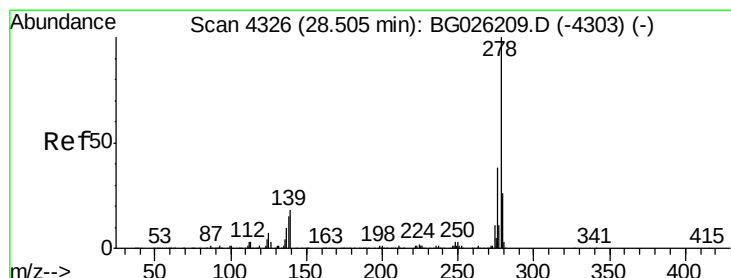
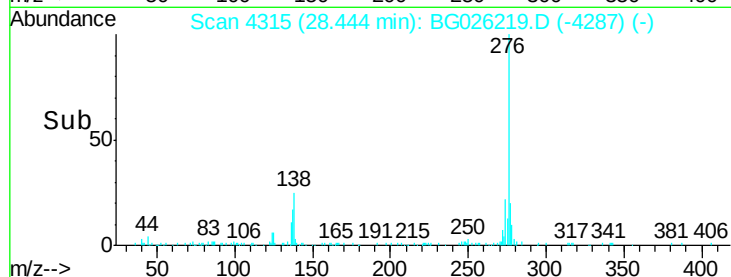
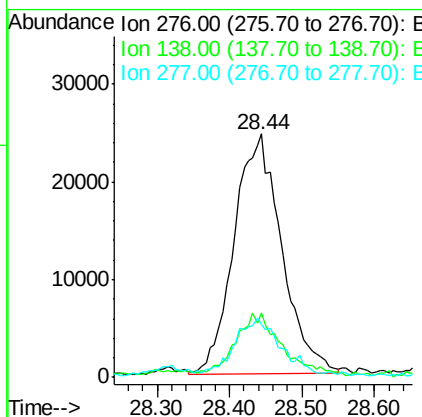
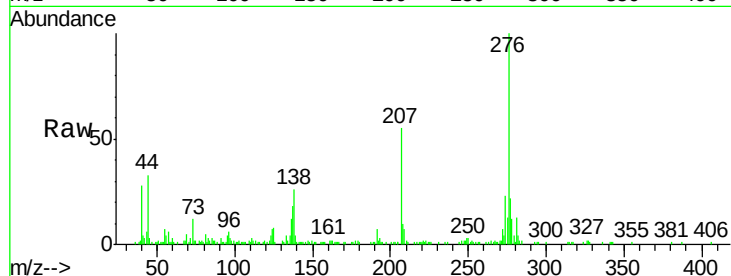
ClientSampleId :

CB2Y7

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 112139 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 26.2 | 17.8  | 26.6   |
| 277       | 21.8 | 19.4  | 29.0   |

Manual Integrations  
APPROVED

mohammad  
3/16/2017 10:52:23 AM



#29

Dibenzo(a,h)anthracene

Concen: 1.09 ng/ul m

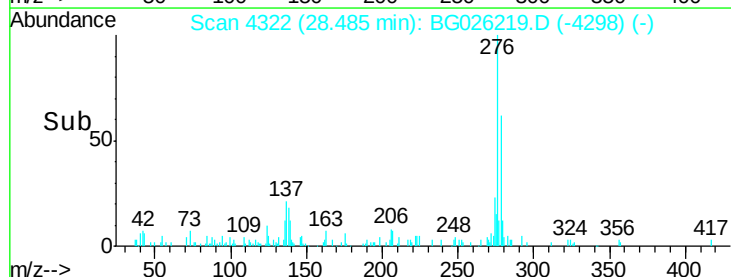
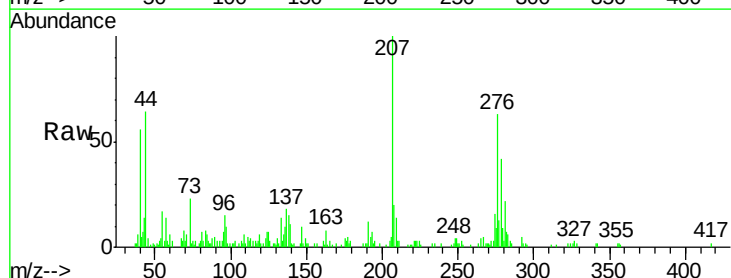
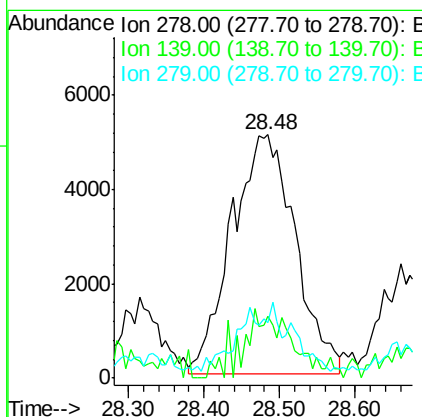
RT: 28.48 min Scan# 4322

Delta R.T. -0.06 min

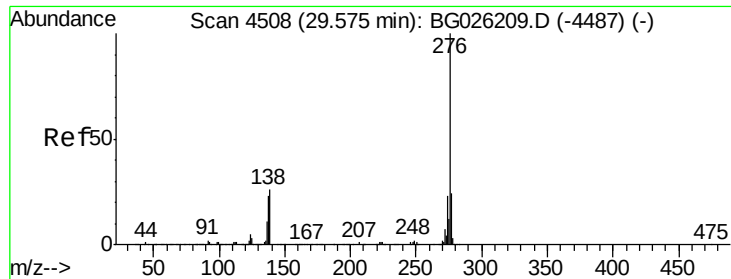
Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 278  | Resp: | 29501 |
| Ion Ratio |      | Lower | Upper |
| 278       | 100  |       |       |
| 139       | 25.2 | 14.0  | 21.0# |
| 279       | 22.6 | 20.6  | 31.0  |







#30

Benzo(g,h,i)perylene

Concen: 3.44 ng/ul

RT: 29.57 min Scan# 4507

Delta R.T. -0.04 min

Lab File: BG026219.D

Acq: 13 Mar 2017 19:48

Instrument :

BNA\_G

ClientSampleId :

CB2Y7

|     |       |      |       |        |
|-----|-------|------|-------|--------|
| Tgt | Ion   | 276  | Resp: | 100744 |
|     | Ratio | 100  | Lower | Upper  |
|     | 276   | 100  |       |        |
|     | 138   | 27.3 | 19.0  | 28.4   |
|     | 277   | 23.4 | 19.7  | 29.5   |

Manual Integrations  
APPROVED

mohammad  
3/16/2017 10:52:23 AM

