

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG031517\  
 Data File : BG026251.D  
 Acq On : 16 Mar 2017 2:14  
 Operator : SJ/MA  
 Sample : I2236-06  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DABG4

Manual Integrations  
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Quant Time: Mar 22 14:40:56 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.3-EPA-BG021617MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 16 04:25:12 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.05  | 152  | 81529    | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 10.85 | 136  | 437347   | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 14.66 | 164  | 261677   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 17.39 | 188  | 565351   | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 21.63 | 240  | 574002   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.82 | 264  | 541950   | 20.00 | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 14.35 | 160  | 667364   | 30.80 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 15.64 | 176  | 475680   | 28.58 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 17.49 | 188  | 672189   | 26.30 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 19.77 | 212  | 717005   | 25.92 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.60 | 264  | 650420   | 27.12 | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 4) 2-Methylnaphthalene      | 12.50 | 142  | 26043    | 1.53  | ng/ul  | Qvalue 92 |
| 5) 1-Methylnaphthalene      | 12.72 | 142  | 24724    | 1.49  | ng/ul  | 94        |
| 13) Phenanthrene            | 17.43 | 178  | 209821   | 6.96  | ng/ul  | 95        |
| 16) Fluoranthene            | 19.43 | 202  | 514658   | 15.53 | ng/ul  | 97        |
| 19) Pyrene                  | 19.80 | 202  | 434071   | 12.50 | ng/ul  | 98        |
| 20) Benzo(a)anthracene      | 21.62 | 228  | 271605   | 8.41  | ng/ul  | 94        |
| 21) Chrysene                | 21.68 | 228  | 295104   | 9.57  | ng/ul  | 99        |
| 23) Benzo(b)fluoranthene    | 23.81 | 252  | 475645   | 15.19 | ng/ul# | 96        |
| 24) Benzo(k)fluoranthene    | 23.87 | 252  | 141597m  | 4.68  | ng/ul  |           |
| 26) Benzo(a)pyrene          | 24.67 | 252  | 283460   | 9.35  | ng/ul# | 95        |
| 27) Indeno(1,2,3-cd)pyrene  | 28.44 | 276  | 224189   | 6.32  | ng/ul# | 82        |
| 28) Dibenzo(a,h)anthracene  | 28.47 | 278  | 64234m   | 2.19  | ng/ul  |           |
| 29) Benzo(g,h,i)perylene    | 29.57 | 276  | 213034   | 7.27  | ng/ul# | 92        |

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

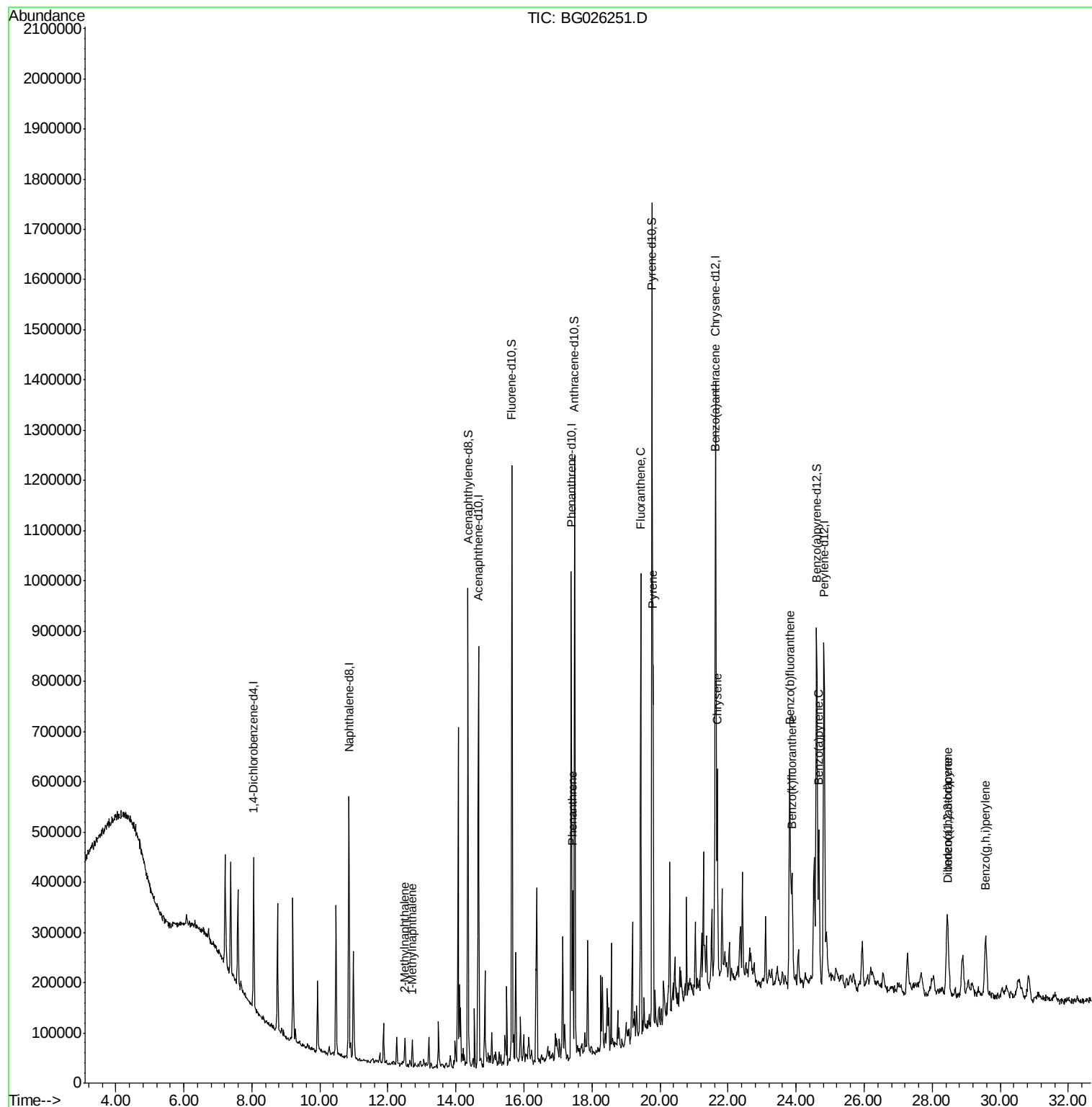
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG031517\  
Data File : BG026251.D  
Acq On : 16 Mar 2017 2:14  
Operator : SJ/MA  
Sample : I2236-06  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

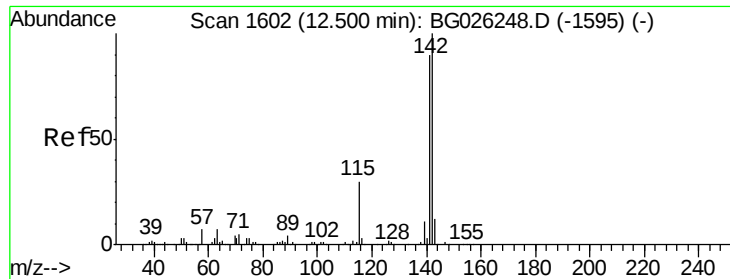
Instrument :  
BNA\_G  
ClientSampleId :  
DABG4

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Quant Time: Mar 22 14:40:56 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.3-EPA-BG021617MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 16 04:25:12 2017  
Response via : Initial Calibration





#4

2-Methylnaphthalene

Concen: 1.53 ng/ul

RT: 12.50 min Scan# 1601

Delta R.T. -0.00 min

Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

Instrument :

BNA\_G

ClientSampleId :

DABG4

Tgt Ion:142 Resp: 26043

Ion Ratio Lower Upper

142 100

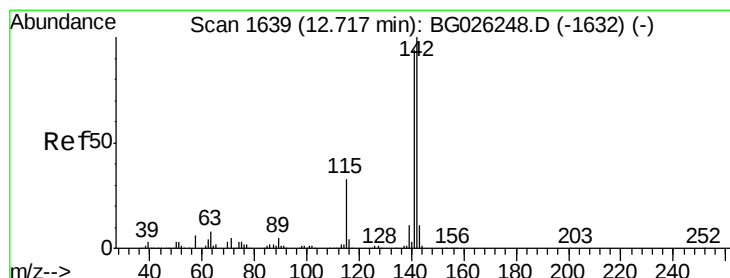
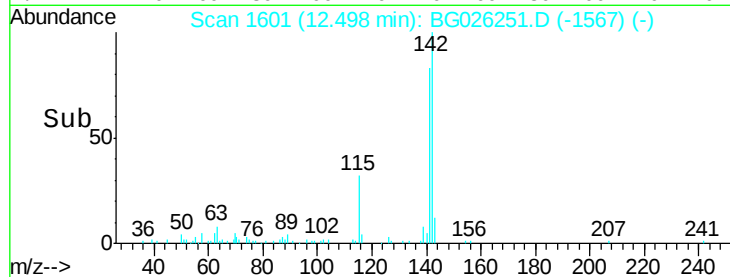
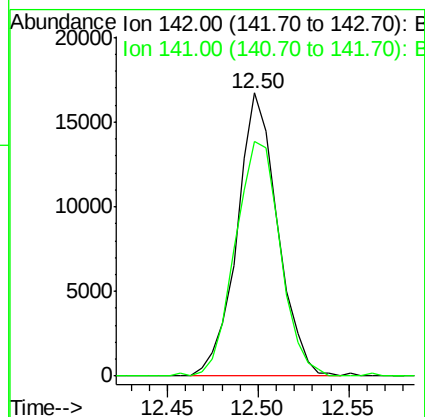
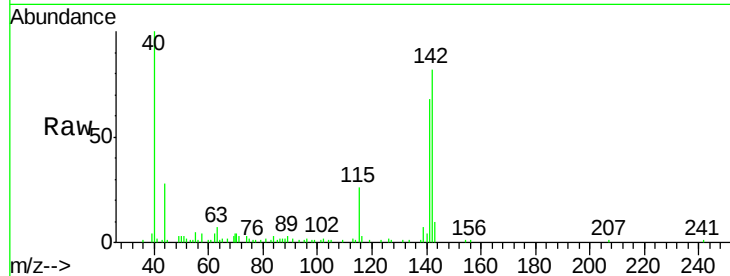
141 82.9 72.7 109.1

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#5

1-Methylnaphthalene

Concen: 1.49 ng/ul

RT: 12.72 min Scan# 1638

Delta R.T. -0.00 min

Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

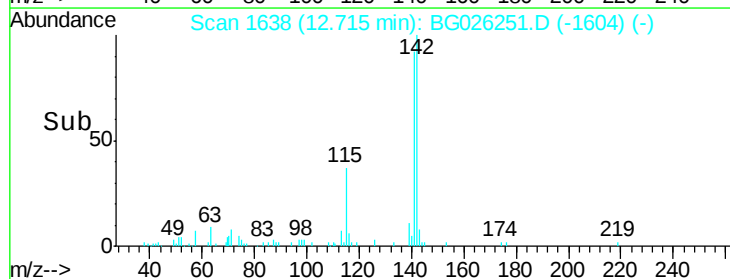
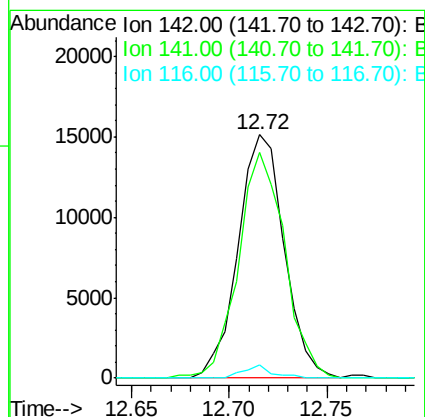
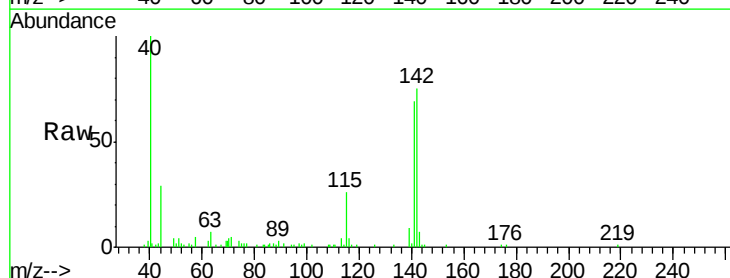
Tgt Ion:142 Resp: 24724

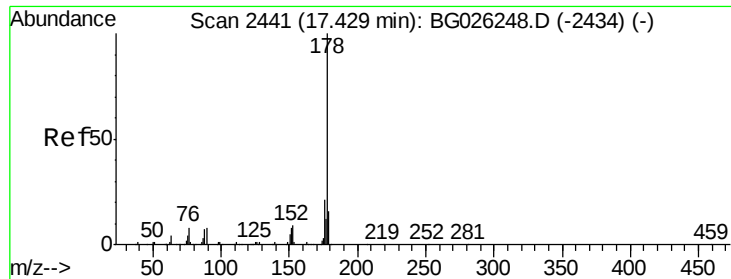
Ion Ratio Lower Upper

142 100

141 92.8 79.3 118.9

116 5.5 4.2 6.2





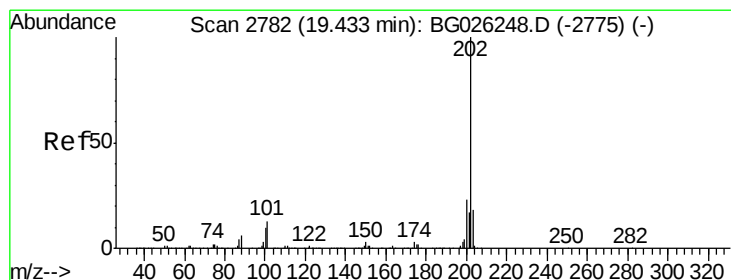
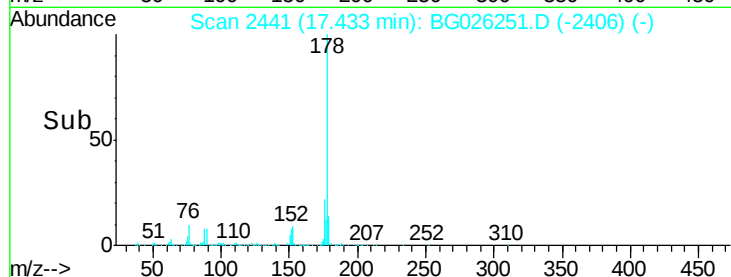
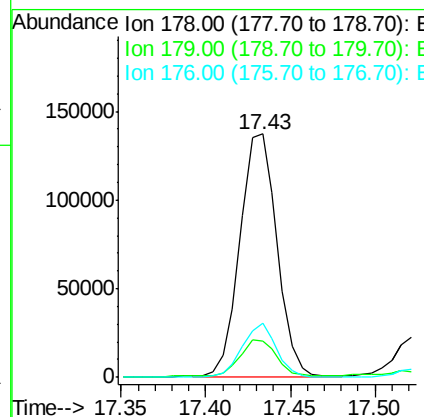
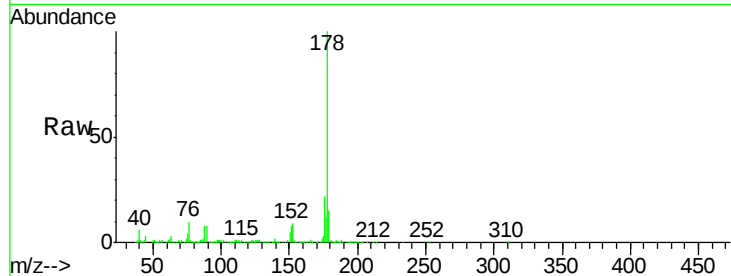
#13  
Phenanthrene  
Concen: 6.96 ng/ul  
RT: 17.43 min Scan# 2441  
Delta R.T. 0.00 min  
Lab File: BG026251.D  
Acq: 16 Mar 2017 2:14

Instrument :  
BNA\_G  
ClientSampleId :  
DABG4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.8  | 12.3  | 18.5  |
| 176     | 22.1  | 15.1  | 22.7  |

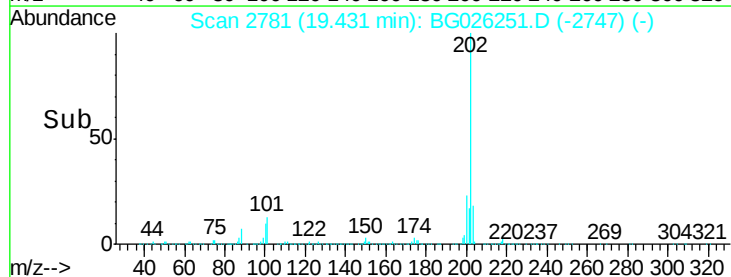
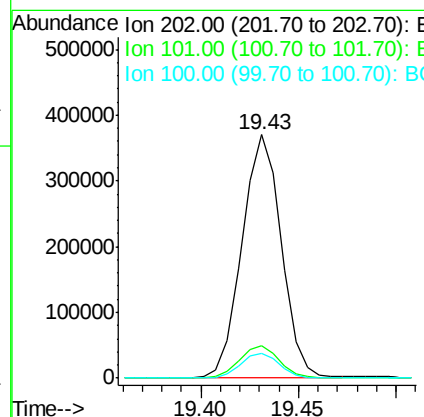
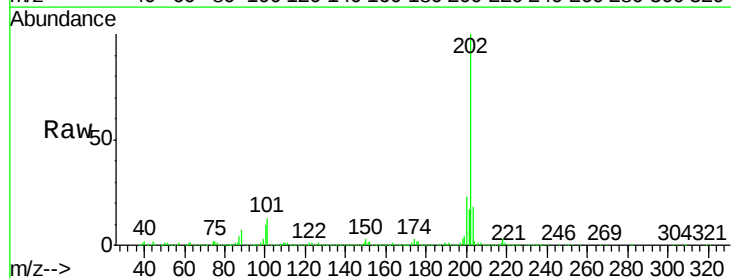
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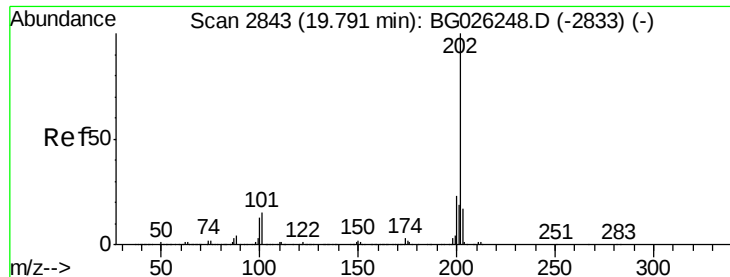
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#16  
Fluoranthene  
Concen: 15.53 ng/ul  
RT: 19.43 min Scan# 2781  
Delta R.T. -0.00 min  
Lab File: BG026251.D  
Acq: 16 Mar 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.5  | 9.9   | 14.9  |
| 100     | 10.1  | 7.4   | 11.0  |





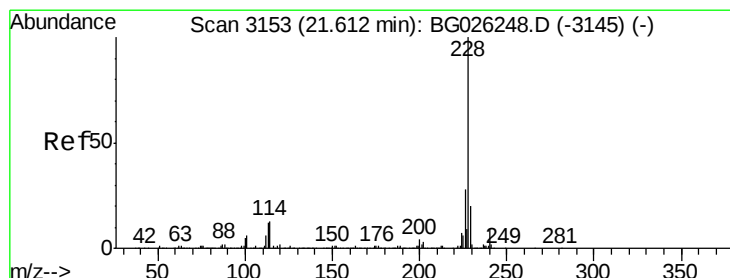
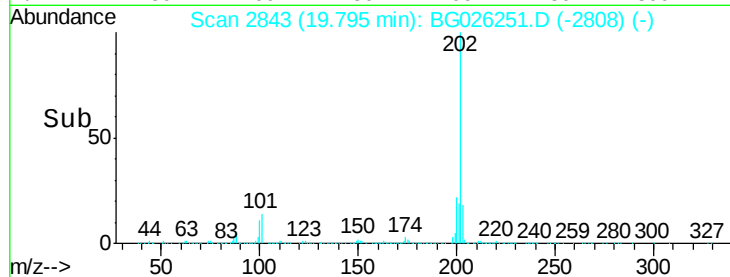
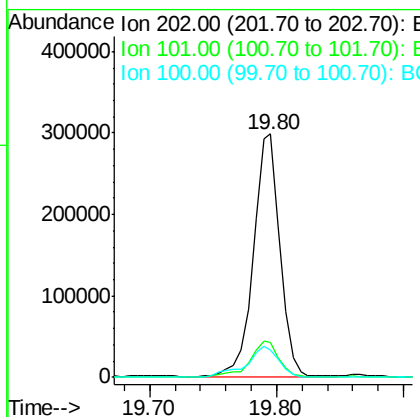
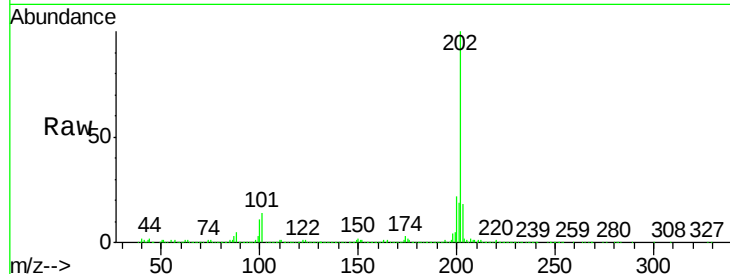
#19  
Pyrene  
Concen: 12.50 ng/ul  
RT: 19.80 min Scan# 2843  
Delta R.T. 0.00 min  
Lab File: BG026251.D  
Acq: 16 Mar 2017 2:14

Instrument :  
BNA\_G  
ClientSampleId :  
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 434071 |       |       |
| 101     | 14.3  | 11.0   | 16.4  |       |
| 100     | 11.4  | 8.1    | 12.1  |       |

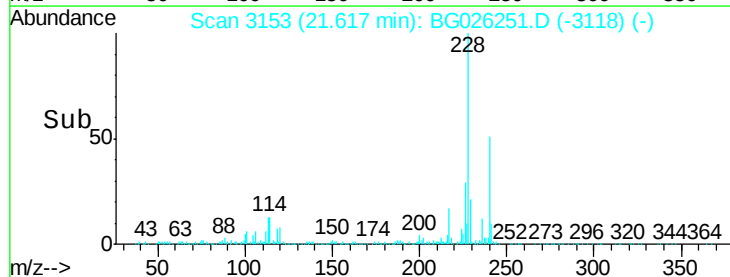
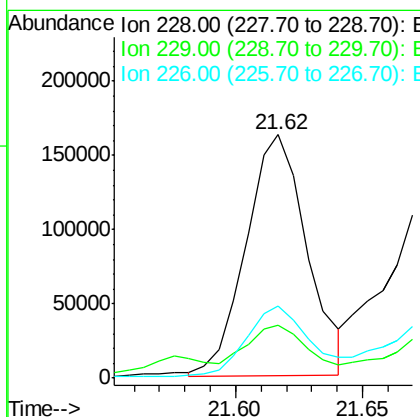
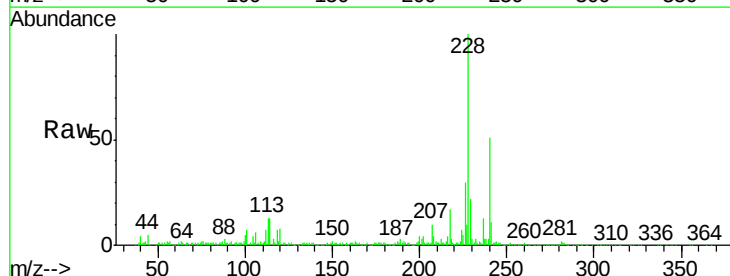
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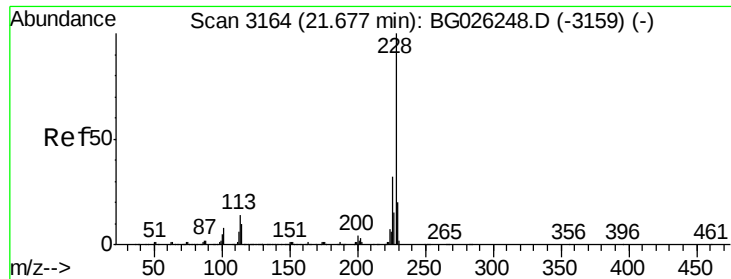
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#20  
Benzo(a)anthracene  
Concen: 8.41 ng/ul  
RT: 21.62 min Scan# 3153  
Delta R.T. 0.00 min  
Lab File: BG026251.D  
Acq: 16 Mar 2017 2:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 271605 |       |       |
| 229     | 21.8  | 15.7   | 23.5  |       |
| 226     | 29.6  | 21.1   | 31.7  |       |





#21

Chrysene

Concen: 9.57 ng/ul

RT: 21.68 min Scan# 3164

Delta R.T. 0.00 min

Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

Instrument :

BNA\_G

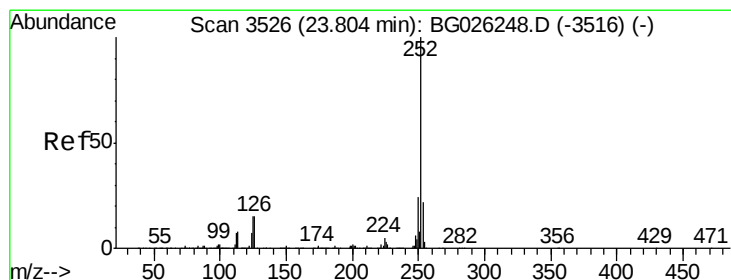
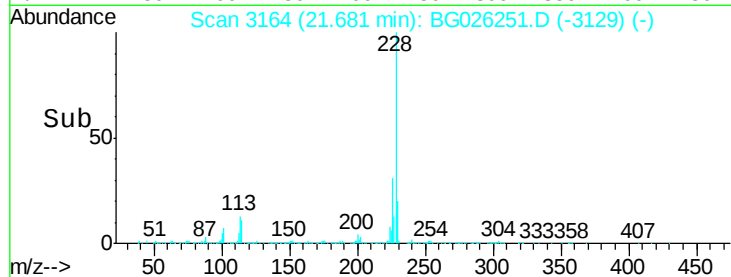
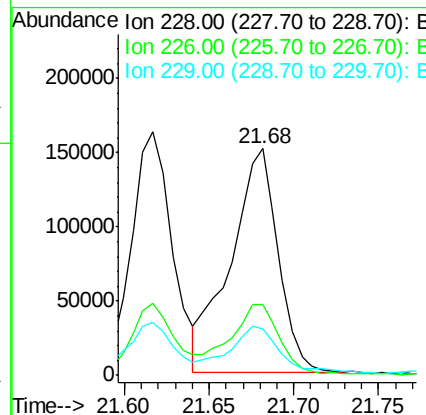
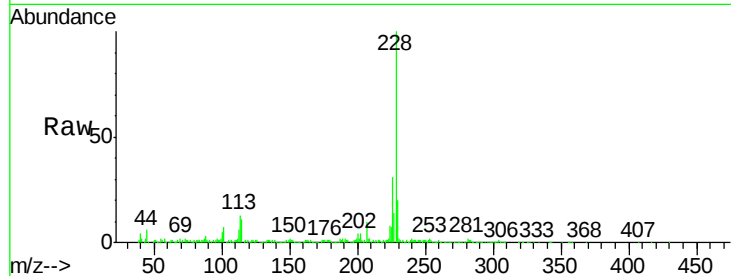
ClientSampled :

DABG4

|     |       |      |       |        |
|-----|-------|------|-------|--------|
| Tgt | Ion   | 228  | Resp: | 295104 |
|     | Ratio | 100  | Lower | Upper  |
|     | 226   | 31.4 | 24.5  | 36.7   |
|     | 229   | 20.4 | 15.8  | 23.8   |

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#23

Benzo(b)fluoranthene

Concen: 15.19 ng/ul

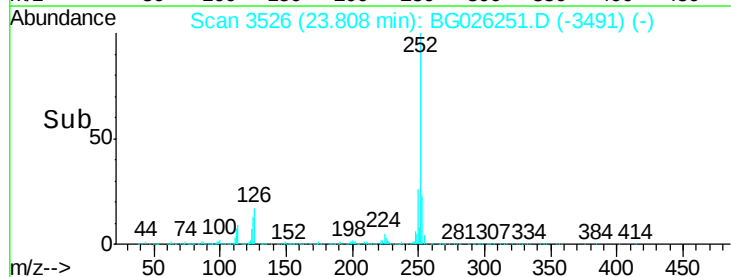
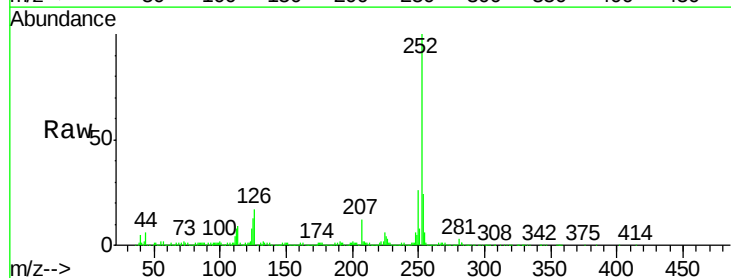
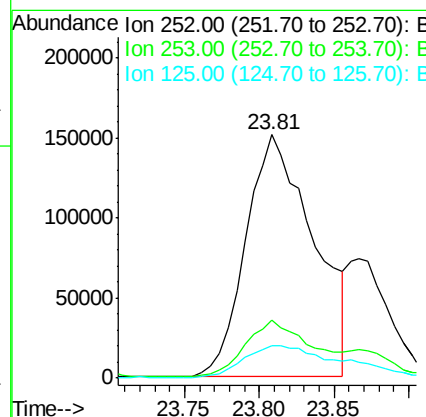
RT: 23.81 min Scan# 3526

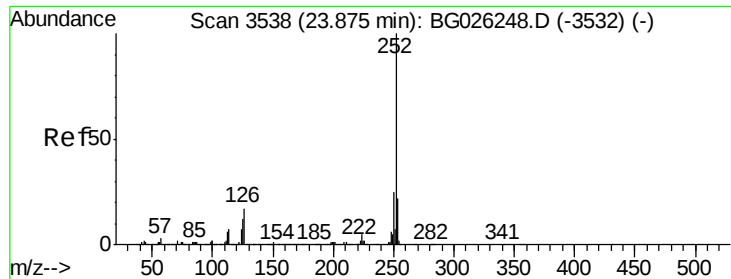
Delta R.T. 0.00 min

Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

|     |       |      |       |        |
|-----|-------|------|-------|--------|
| Tgt | Ion   | 252  | Resp: | 475645 |
|     | Ratio | 100  | Lower | Upper  |
|     | 253   | 23.6 | 18.0  | 27.0   |
|     | 125   | 13.1 | 8.0   | 12.0#  |





#24

Benzo(k)fluoranthene

Concen: 4.68 ng/ul m

RT: 23.87 min Scan# 3536

Delta R.T. -0.01 min

Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

Instrument :

BNA\_G

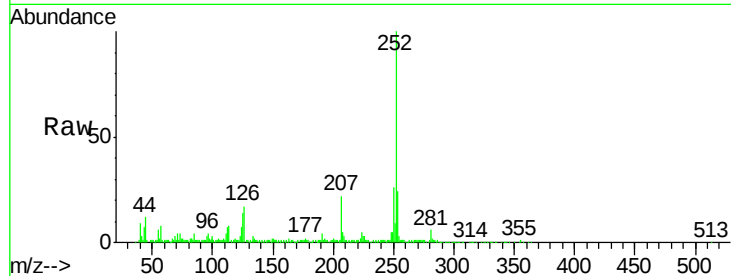
ClientSampleId :

DABG4

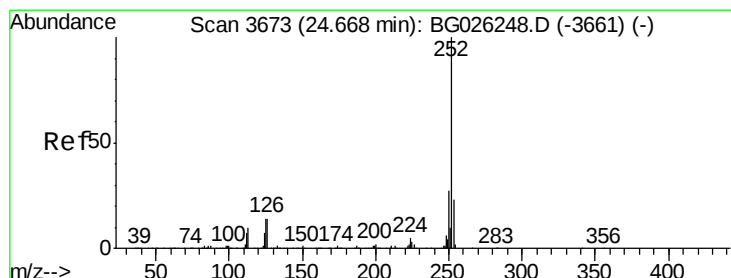
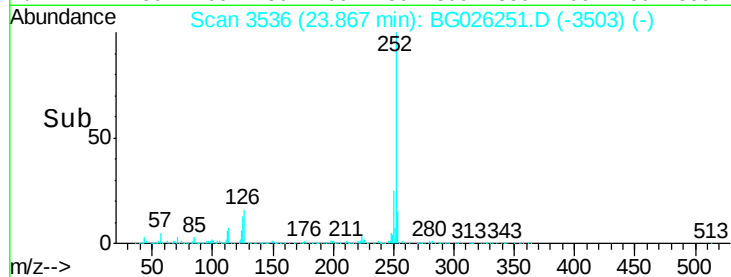
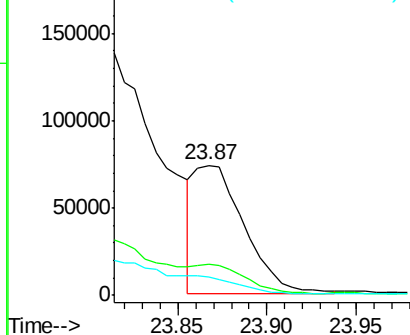
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 141597 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.0  | 18.0  | 27.0   |
| 125       | 13.7  | 8.1   | 12.1#  |

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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: 9.35 ng/ul

RT: 24.67 min Scan# 3672

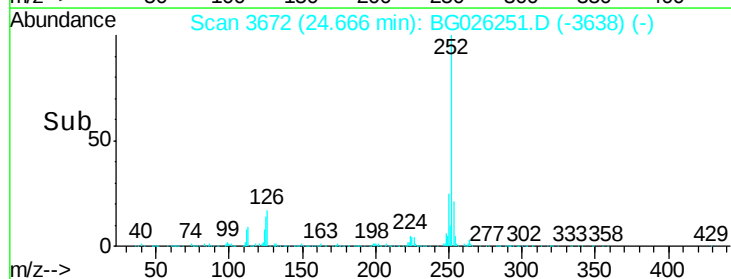
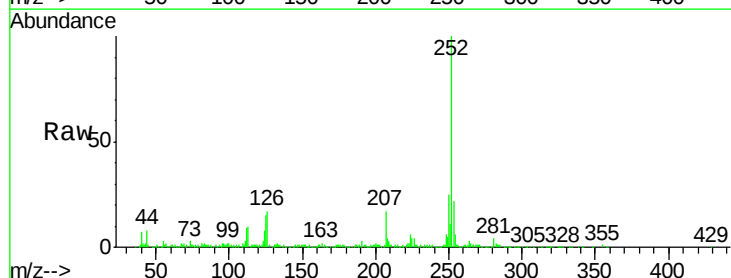
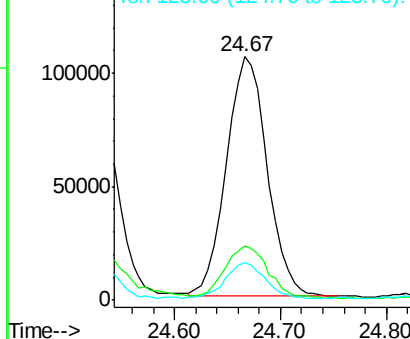
Delta R.T. -0.00 min

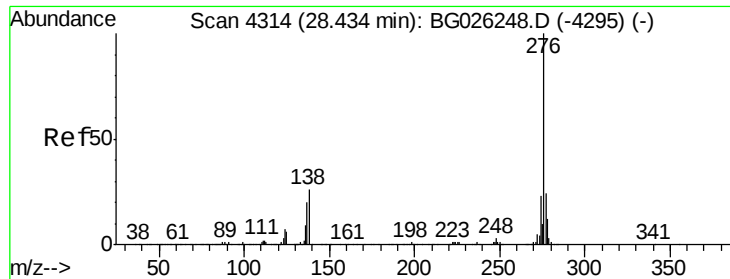
Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 283460 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 17.2  | 25.8   |
| 125       | 15.4  | 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: 6.32 ng/ul

RT: 28.44 min Scan# 4314

Delta R.T. 0.00 min

Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

Instrument :

BNA\_G

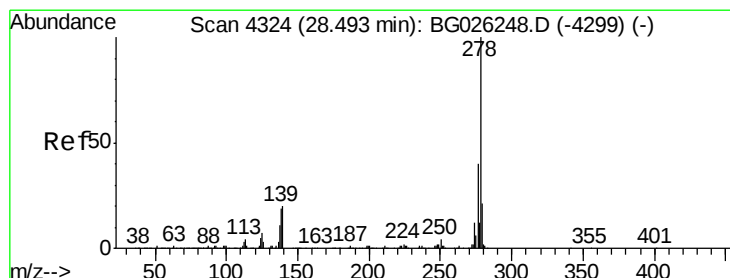
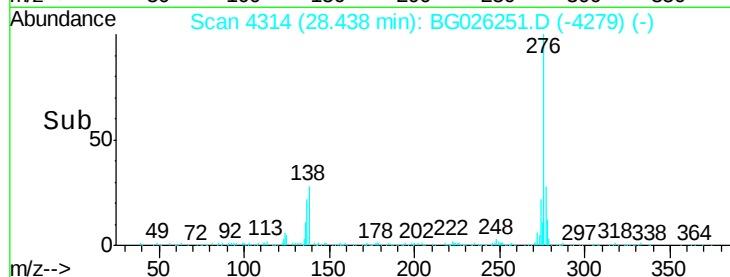
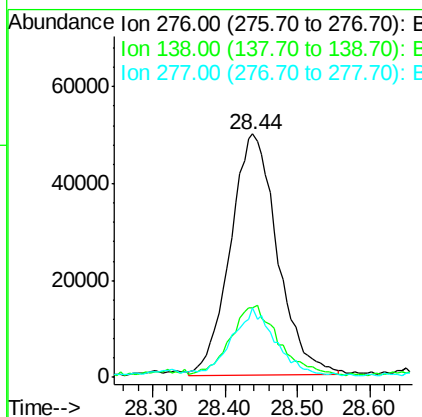
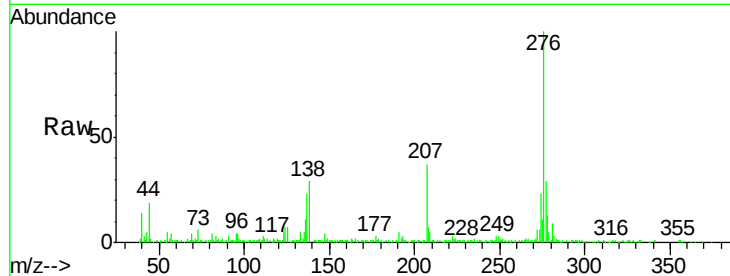
ClientSampleId :

DABG4

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 224189 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 28.7 | 14.4  | 21.6#  |
| 277       | 28.7 | 18.0  | 27.0#  |

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#28

Dibenzo(a,h)anthracene

Concen: 2.19 ng/ul m

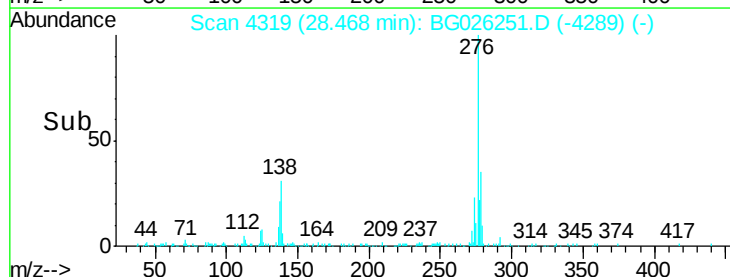
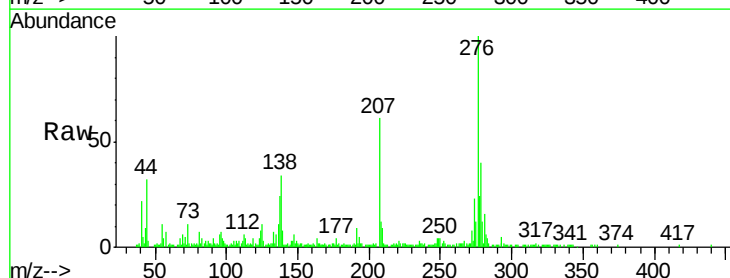
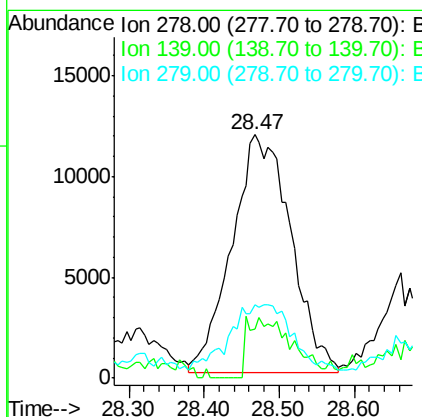
RT: 28.47 min Scan# 4319

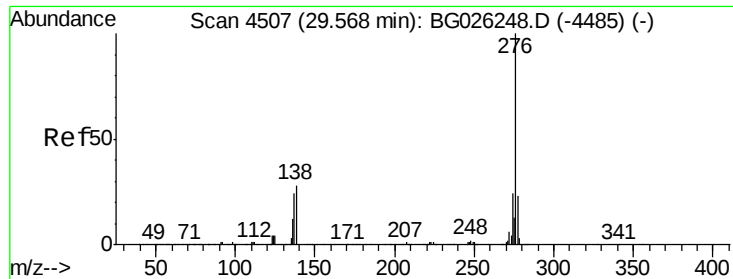
Delta R.T. -0.03 min

Lab File: BG026251.D

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|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 278  | Resp: | 64234 |
| Ion Ratio |      | Lower | Upper |
| 278       | 100  |       |       |
| 139       | 19.9 | 12.2  | 18.4# |
| 279       | 30.1 | 19.2  | 28.8# |





#29

Benzo(g,h,i)perylene

Concen: 7.27 ng/ul

RT: 29.57 min Scan# 4507

Delta R.T. 0.00 min

Lab File: BG026251.D

Acq: 16 Mar 2017 2:14

Instrument :

BNA\_G

ClientSampleId :

DABG4

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 213034 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 26.4 | 15.3  | 22.9#  |
| 277       | 22.9 | 19.0  | 28.4   |

Manual Integrations  
APPROVED

mohammad  
3/17/2017 1:08:28 PM

