

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG031317\  
 Data File : BG026211.D  
 Acq On : 13 Mar 2017 13:17  
 Operator : SJ/MA  
 Sample : I2217-06  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB2X0

Manual Integrations  
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Quant Time: Mar 15 17:27:36 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG030317-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Mar 15 17:14:22 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.06  | 152  | 70614    | 20.00 | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.85 | 136  | 366783   | 20.00 | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.66 | 164  | 241253   | 20.00 | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.39 | 188  | 591568   | 20.00 | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.63 | 240  | 619936   | 20.00 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.82 | 264  | 585924   | 20.00 | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.47 | 165  | 83075    | 15.29 | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.35 | 160  | 500628   | 24.34 | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.65 | 176  | 367811   | 24.51 | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.49 | 188  | 574887   | 21.87 | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.77 | 212  | 626834   | 19.82 | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.60 | 264  | 563377   | 22.29 | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       |        |          |
| 4) Naphthalene              | 10.91 | 128  | 24857    | 1.39  | ng/ul# | 96       |
| 14) Phenanthrene            | 17.43 | 178  | 278462   | 8.88  | ng/ul  | 98       |
| 16) Anthracene              | 17.52 | 178  | 45987    | 1.45  | ng/ul  | 99       |
| 17) Fluoranthene            | 19.43 | 202  | 453008   | 13.92 | ng/ul  | 98       |
| 20) Pyrene                  | 19.80 | 202  | 382601   | 9.69  | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.62 | 228  | 187836   | 5.44  | ng/ul  | 96       |
| 22) Chrysene                | 21.68 | 228  | 177781   | 5.52  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.81 | 252  | 221555   | 6.66  | ng/ul  | 98       |
| 25) Benzo(k)fluoranthene    | 23.87 | 252  | 73882m   | 2.33  | ng/ul  |          |
| 27) Benzo(a)pyrene          | 24.67 | 252  | 111828   | 3.62  | ng/ul  | 97       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.45 | 276  | 70990m   | 2.08  | ng/ul  |          |
| 30) Benzo(g,h,i)perylene    | 29.56 | 276  | 69542m   | 2.38  | ng/ul  |          |

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

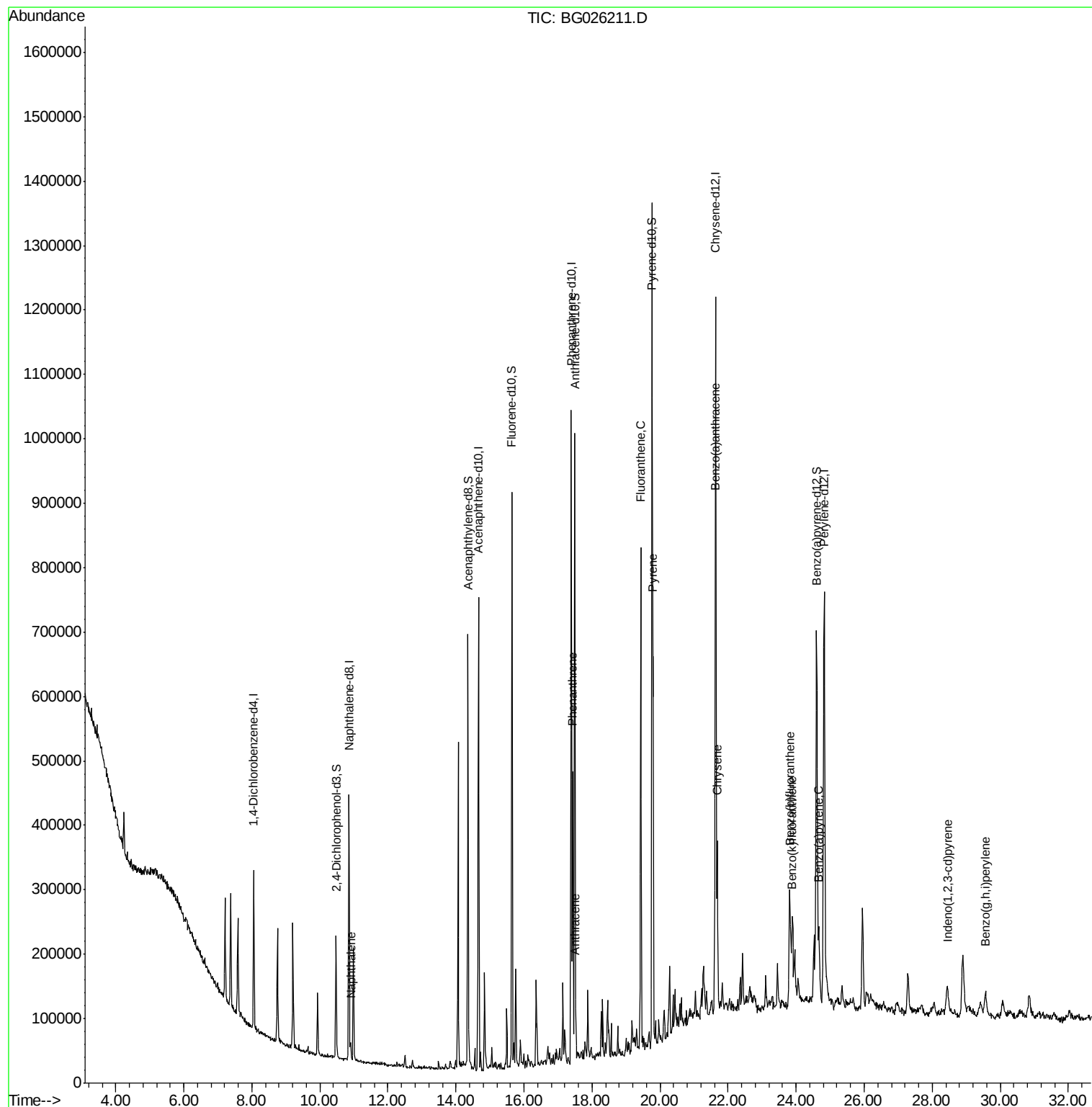
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG031317\  
Data File : BG026211.D  
Acq On : 13 Mar 2017 13:17  
Operator : SJ/MA  
Sample : I2217-06  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

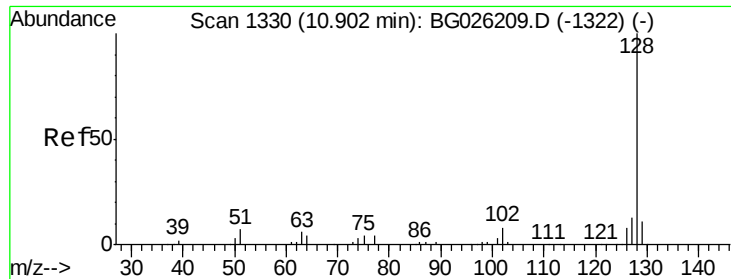
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Time: Mar 15 17:27:36 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG030317-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 15 17:14:22 2017  
Response via : Initial Calibration





#4

Naphthalene

Concen: 1.39 ng/ul

RT: 10.91 min Scan# 1330

Delta R.T. 0.00 min

Lab File: BG026211.D

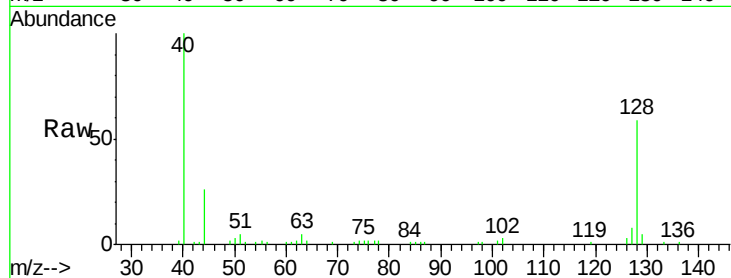
Acq: 13 Mar 2017 13:17

Instrument :

BNA\_G

ClientSampleId :

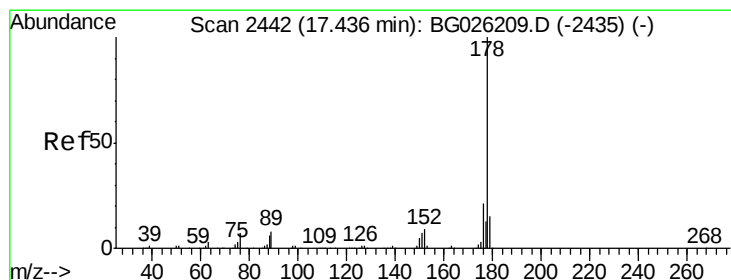
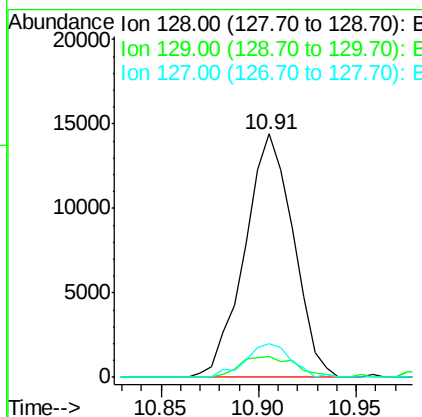
CB2X0



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 24857 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 8.5   | 9.1   | 13.7# |
| 127       | 13.8  | 10.6  | 15.8  |

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#14

Phenanthrene

Concen: 8.88 ng/ul

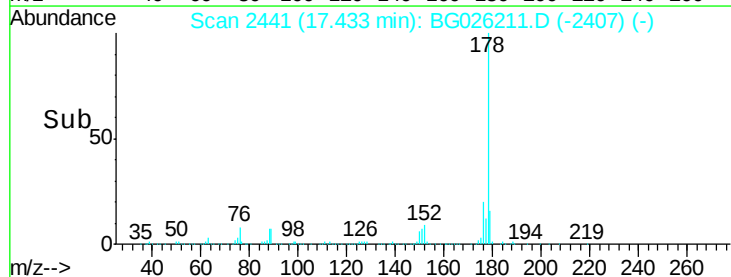
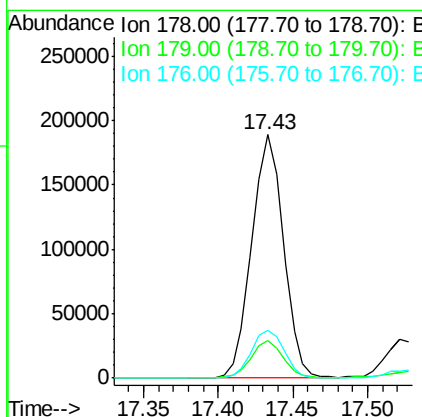
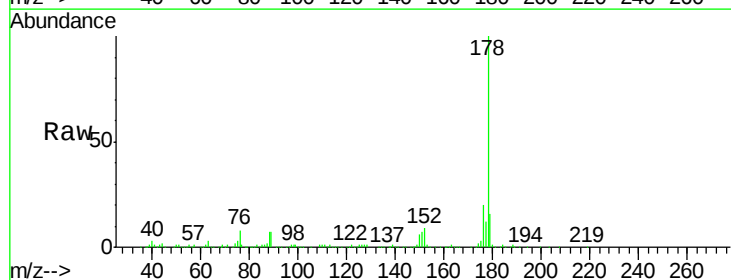
RT: 17.43 min Scan# 2441

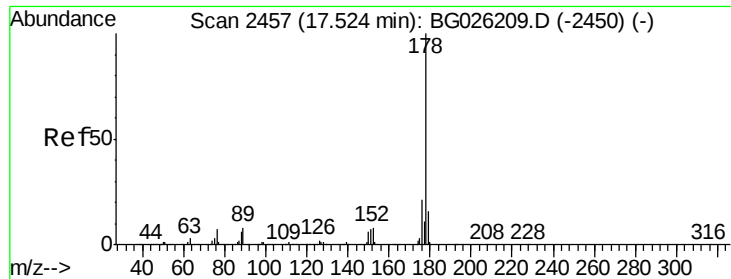
Delta R.T. -0.00 min

Lab File: BG026211.D

Acq: 13 Mar 2017 13:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 278462 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.2  | 18.4   |
| 176       | 19.5  | 16.4  | 24.6   |





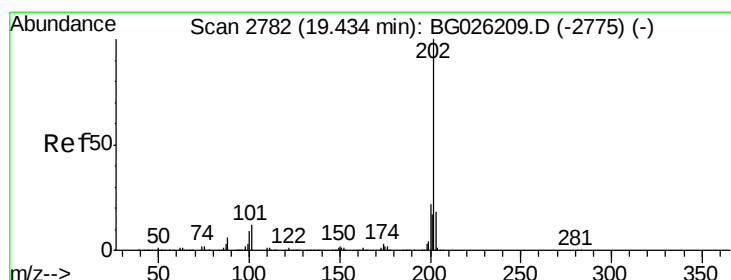
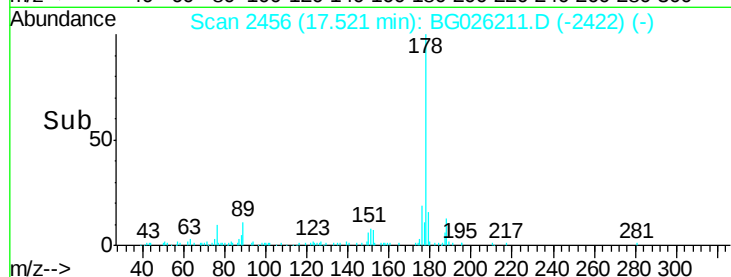
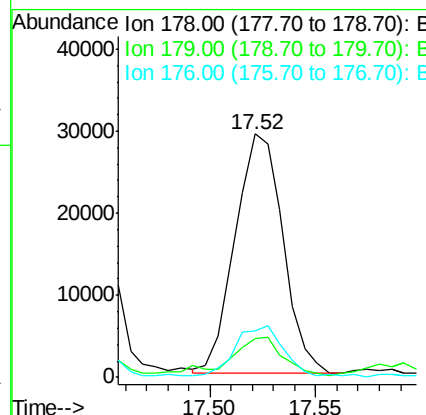
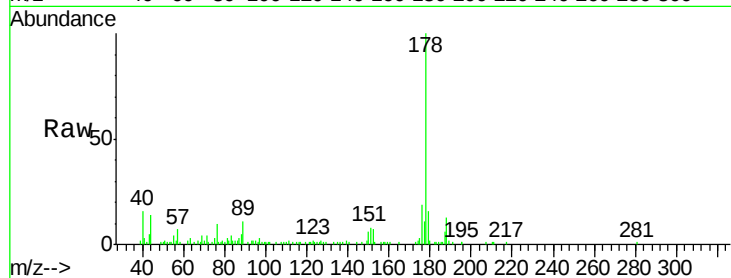
#16  
 Anthracene  
 Concen: 1.45 ng/ul  
 RT: 17.52 min Scan# 2456  
 Delta R.T. -0.00 min  
 Lab File: BG026211.D  
 Acq: 13 Mar 2017 13:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB2X0

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 45987 |       |       |
| 179     | 16.1  |       | 12.7  | 19.1  |
| 176     | 19.1  |       | 15.8  | 23.8  |

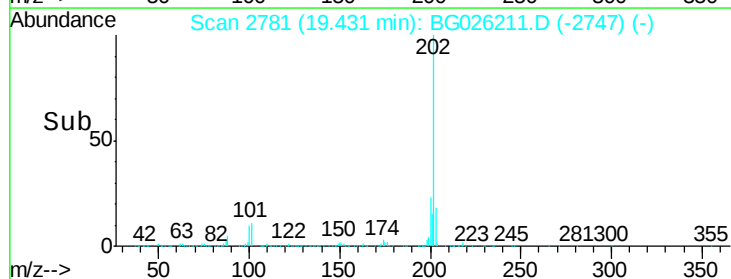
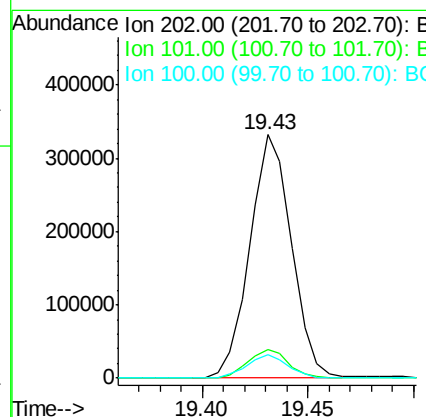
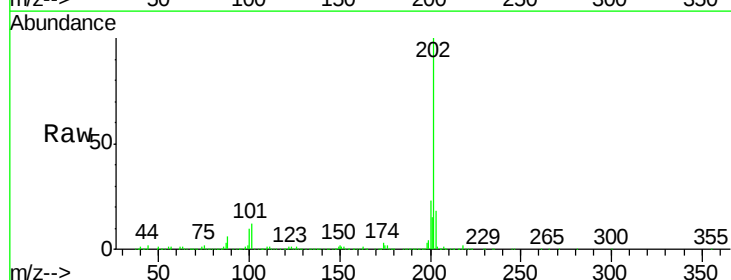
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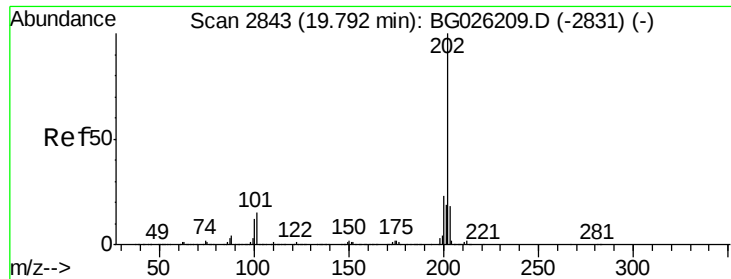
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#17  
 Fluoranthene  
 Concen: 13.92 ng/ul  
 RT: 19.43 min Scan# 2781  
 Delta R.T. -0.00 min  
 Lab File: BG026211.D  
 Acq: 13 Mar 2017 13:17

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 453008 |       |       |
| 101     | 11.6  |        | 9.8   | 14.8  |
| 100     | 9.8   |        | 7.5   | 11.3  |





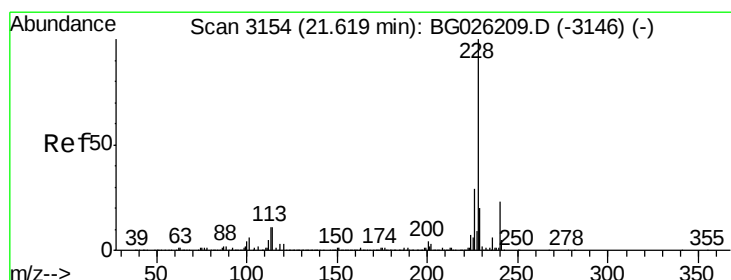
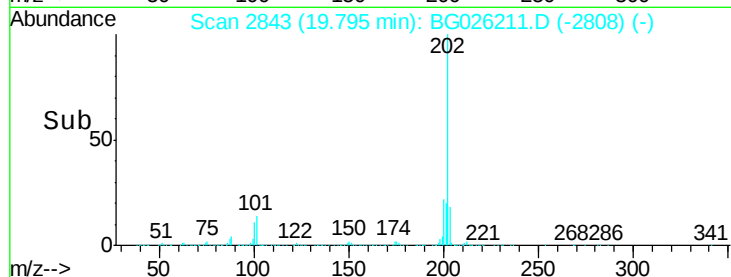
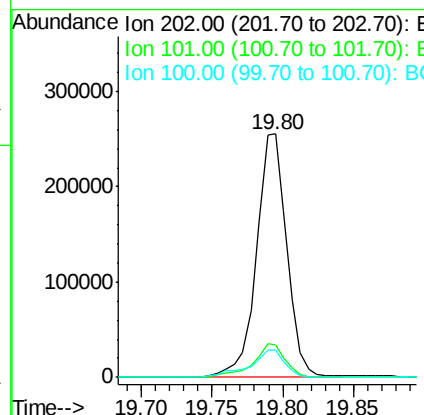
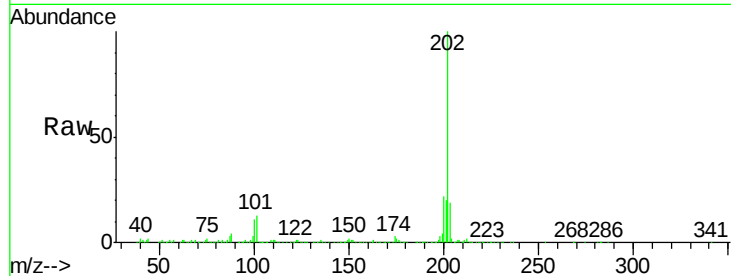
#20  
Pyrene  
Concen: 9.69 ng/ul  
RT: 19.80 min Scan# 2843  
Delta R.T. 0.00 min  
Lab File: BG026211.D  
Acq: 13 Mar 2017 13:17

Instrument :  
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ClientSampleId :  
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| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 382601 |       |       |
| 101 | 13.5 | 11.2  | 16.8   |       |       |
| 100 | 11.1 | 9.8   | 14.6   |       |       |

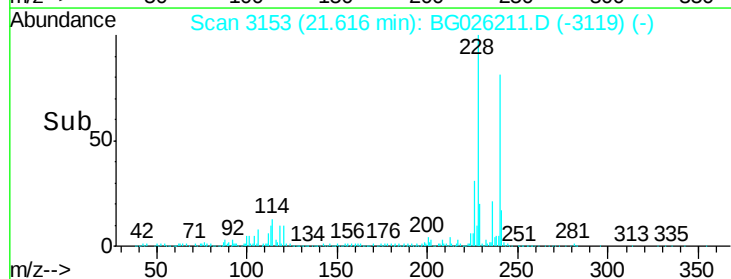
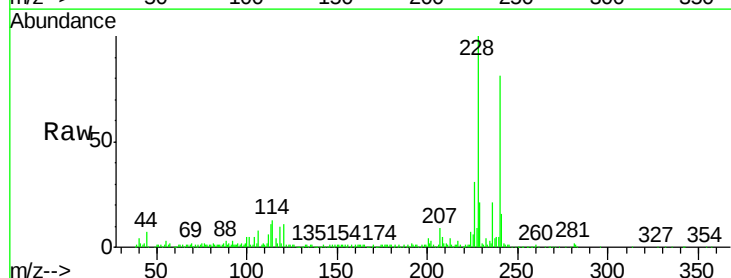
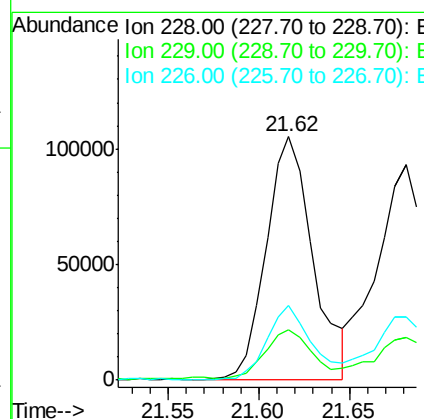
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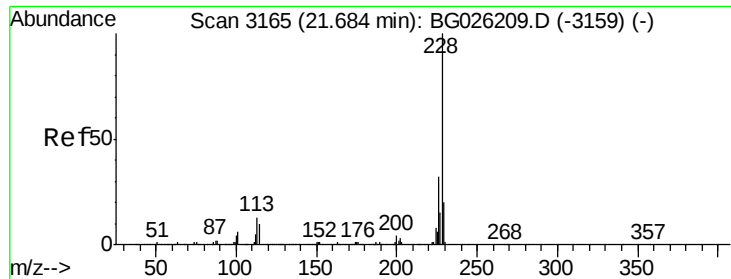
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#21  
Benzo(a)anthracene  
Concen: 5.44 ng/ul  
RT: 21.62 min Scan# 3153  
Delta R.T. -0.00 min  
Lab File: BG026211.D  
Acq: 13 Mar 2017 13:17

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 228 | 100  |       | 187836 |       |       |
| 229 | 20.8 | 15.9  | 23.9   |       |       |
| 226 | 30.6 | 22.1  | 33.1   |       |       |





#22

Chrysene

Concen: 5.52 ng/ul

RT: 21.68 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BG026211.D

Acq: 13 Mar 2017 13:17

Instrument :

BNA\_G

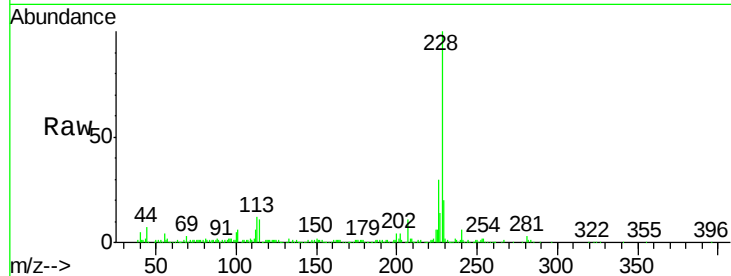
ClientSampleId :

CB2X0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 177781 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.6  | 25.0  | 37.6   |
| 229       | 19.7  | 16.6  | 25.0   |

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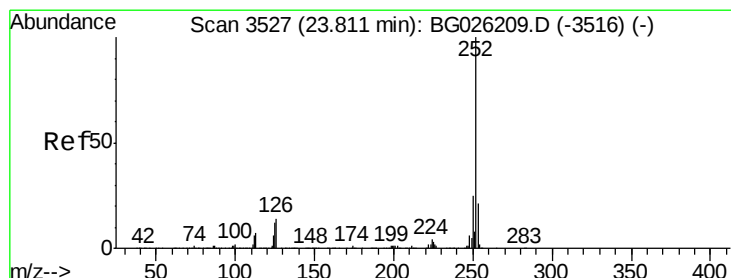
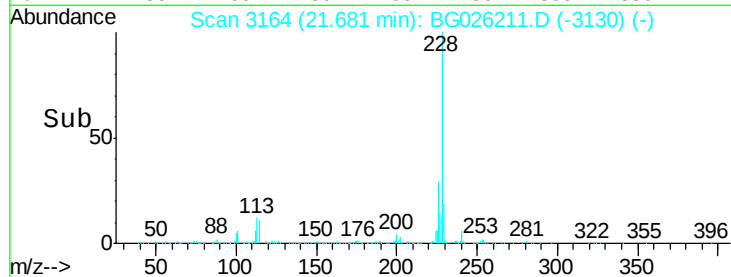
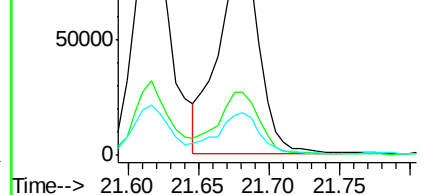


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

100000

50000

0



#24

Benzo(b)fluoranthene

Concen: 6.66 ng/ul

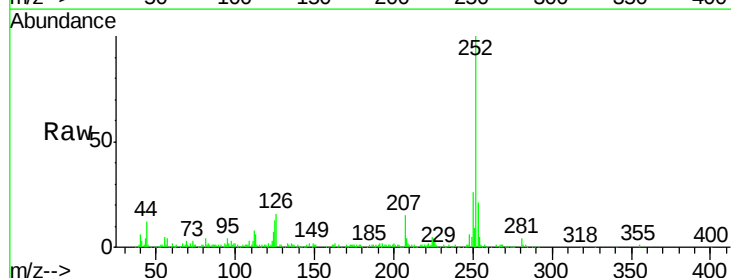
RT: 23.81 min Scan# 3526

Delta R.T. -0.00 min

Lab File: BG026211.D

Acq: 13 Mar 2017 13:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 221555 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.0  | 17.8  | 26.6   |
| 125       | 12.6  | 9.4   | 14.0   |



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

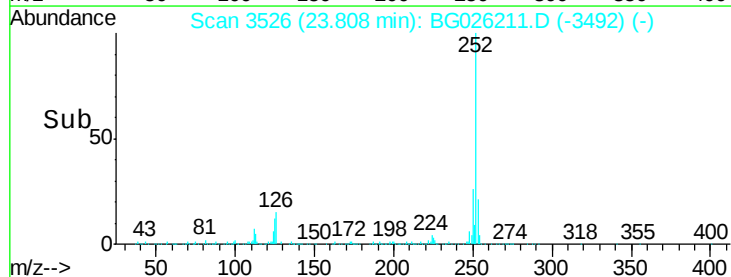
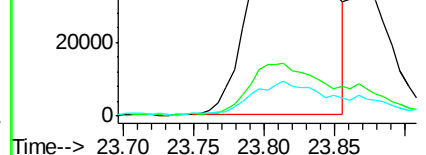
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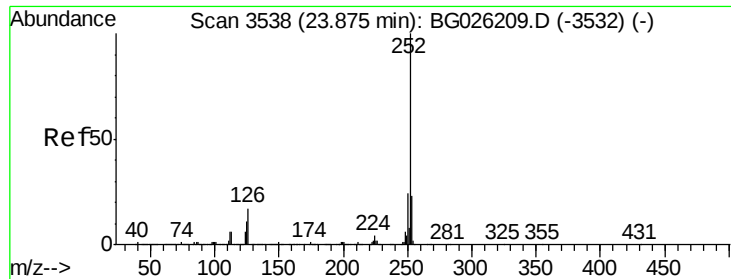
60000

40000

20000

0





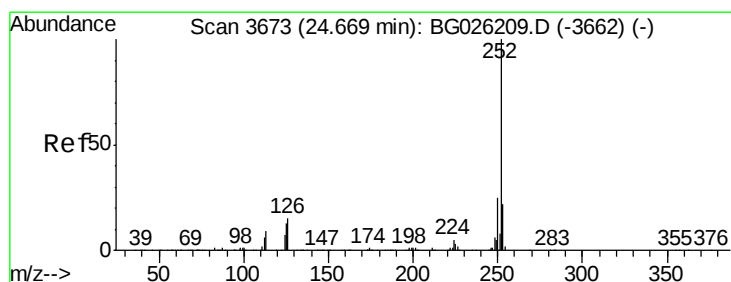
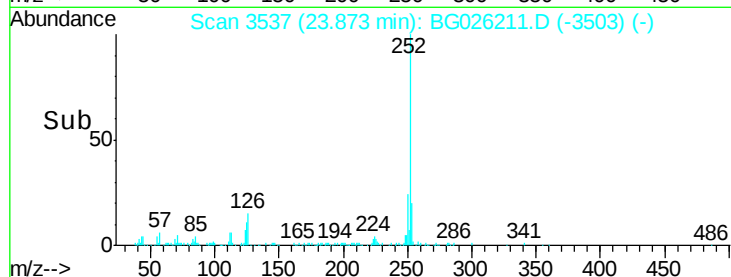
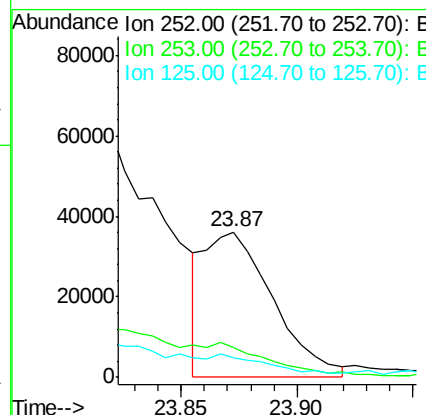
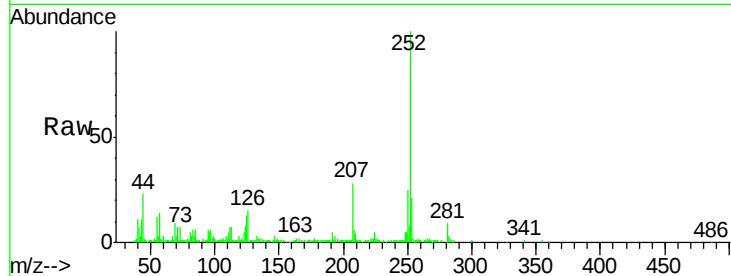
#25  
Benzo(k)fluoranthene  
Concen: 2.33 ng/ul m  
RT: 23.87 min Scan# 3537  
Delta R.T. -0.00 min  
Lab File: BG026211.D  
Acq: 13 Mar 2017 13:17

Instrument :  
BNA\_G  
ClientSampleId :  
CB2X0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.6  | 17.4  | 26.2  |
| 125     | 13.3  | 8.8   | 13.2# |

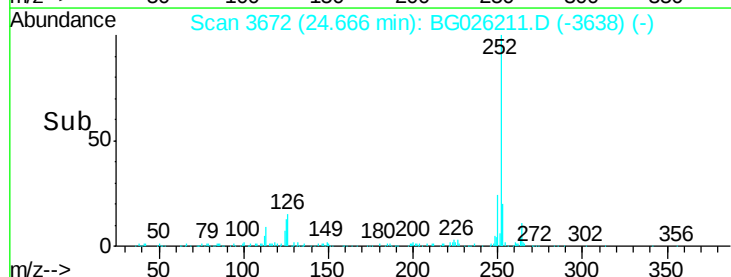
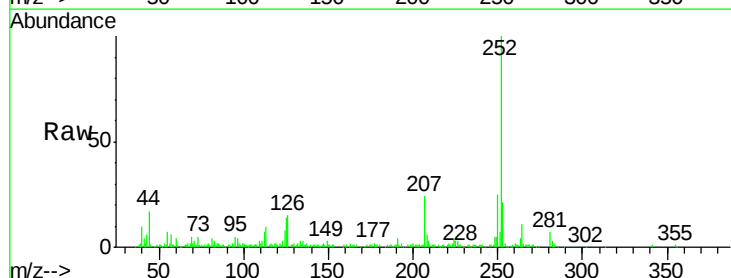
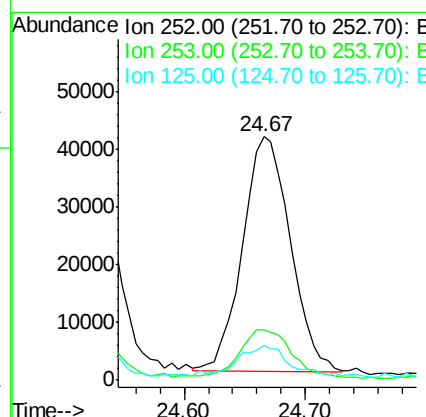
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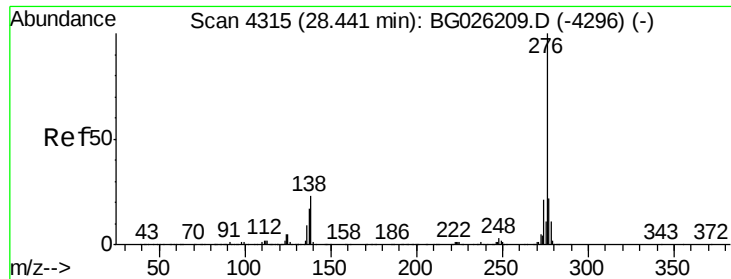
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#27  
Benzo(a)pyrene  
Concen: 3.62 ng/ul  
RT: 24.67 min Scan# 3672  
Delta R.T. -0.00 min  
Lab File: BG026211.D  
Acq: 13 Mar 2017 13:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.7  | 17.1  | 25.7  |
| 125     | 14.1  | 9.4   | 14.2  |





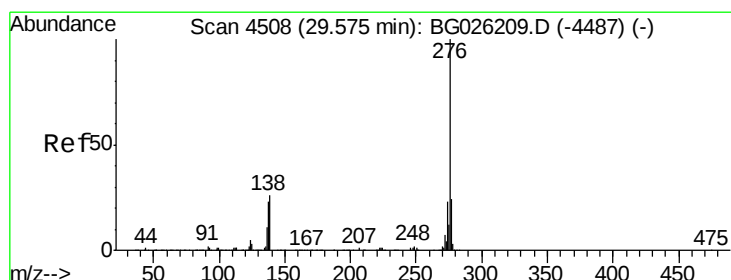
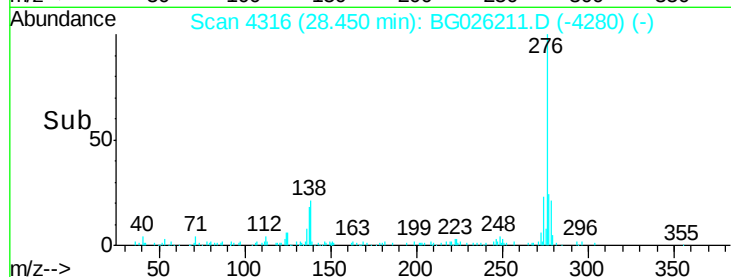
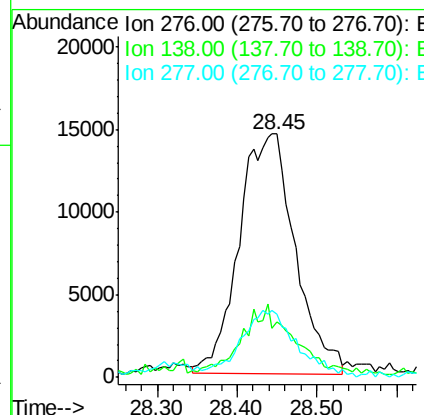
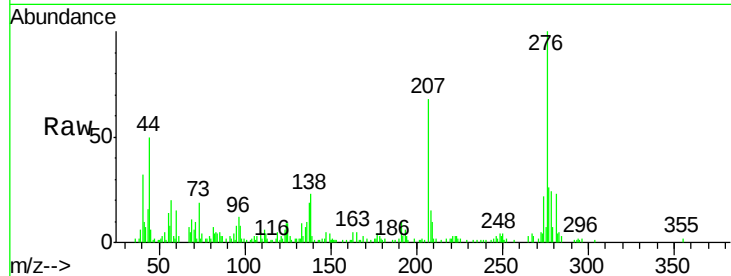
#28  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.08 ng/ul m  
 RT: 28.45 min Scan# 4316  
 Delta R.T. 0.01 min  
 Lab File: BG026211.D  
 Acq: 13 Mar 2017 13:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB2X0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.7  | 17.8  | 26.6  |
| 277     | 25.8  | 19.4  | 29.0  |

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#30  
 Benzo(g,h,i)perylene  
 Concen: 2.38 ng/ul m  
 RT: 29.56 min Scan# 4505  
 Delta R.T. -0.01 min  
 Lab File: BG026211.D  
 Acq: 13 Mar 2017 13:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.2  | 19.0  | 28.4  |
| 277     | 22.1  | 19.7  | 29.5  |

