

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052317\  
 Data File : BG027082.D  
 Acq On : 23 May 2017 6:45  
 Operator : SJ/MA  
 Sample : I3276-12MS  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC87MS

Manual Integrations  
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 5/24/2017 11:22:59 AM

Quant Time: May 23 08:16:18 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 23 04:05:03 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 172928   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.80 | 136  | 857643   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.62 | 164  | 507669   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.35 | 188  | 1021284  | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.60 | 240  | 896230   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.77 | 264  | 860921   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 14.31 | 160  | 1049563  | 20.16 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.60 | 176  | 707834   | 20.38 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 17.45 | 188  | 1007711m | 20.24 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 19.73 | 212  | 1007173  | 21.52 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.55 | 264  | 896986   | 20.97 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 9) Acenaphthene            | 14.68 | 153  | 714136   | 19.93 | ng/ul  | 98     |
| 13) Phenanthrene           | 17.39 | 178  | 64484m   | 1.13  | ng/ul  |        |
| 16) Fluoranthene           | 19.40 | 202  | 138156   | 2.37  | ng/ul# | 93     |
| 19) Pyrene                 | 19.76 | 202  | 1357095  | 23.17 | ng/ul# | 84     |
| 20) Benzo(a)anthracene     | 21.58 | 228  | 76717    | 1.42  | ng/ul  | 94     |
| 21) Chrysene               | 21.65 | 228  | 78774    | 1.59  | ng/ul  | 96     |
| 23) Benzo(b)fluoranthene   | 23.77 | 252  | 121277   | 2.37  | ng/ul# | 89     |
| 26) Benzo(a)pyrene         | 24.62 | 252  | 66913    | 1.34  | ng/ul# | 87     |
| 27) Indeno(1,2,3-cd)pyrene | 28.38 | 276  | 48592m   | 1.06  | ng/ul  |        |
| 29) Benzo(g,h,i)perylene   | 29.50 | 276  | 48026m   | 1.31  | ng/ul  |        |

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

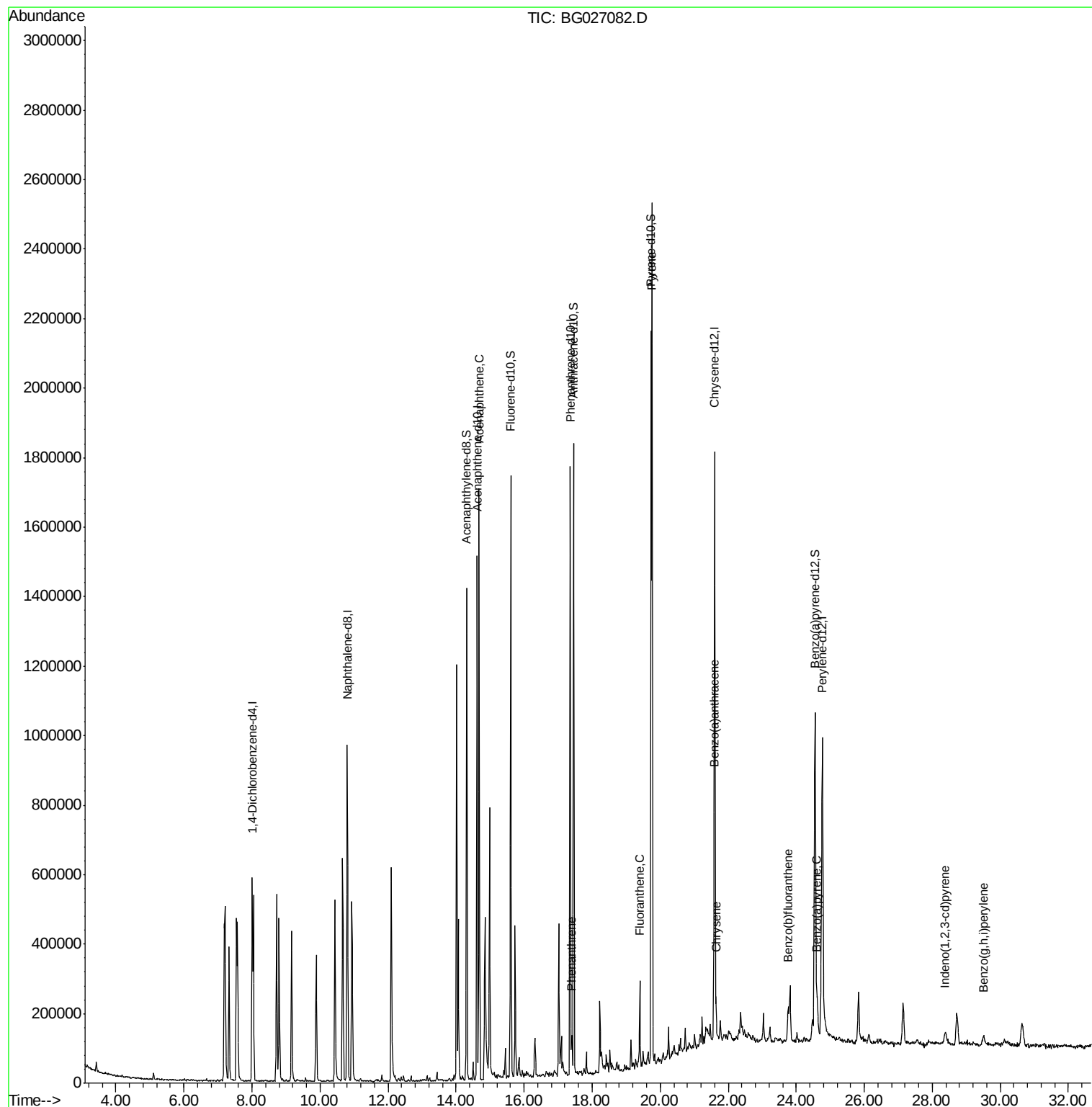
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052317\  
Data File : BG027082.D  
Acq On : 23 May 2017 6:45  
Operator : SJ/MA  
Sample : I3276-12MS  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

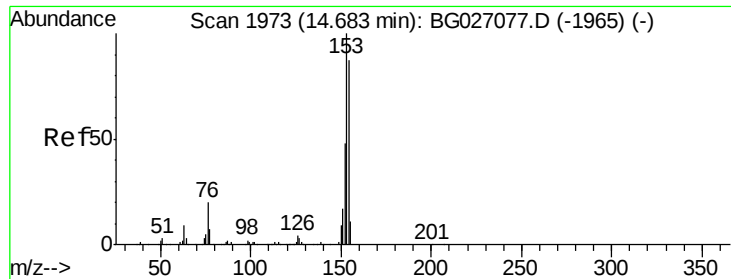
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Time: May 23 08:16:18 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue May 23 04:05:03 2017  
Response via : Initial Calibration





#9

Acenaphthene

Concen: 19.93 ng/ul

RT: 14.68 min Scan# 1973

Delta R.T. -0.00 min

Lab File: BG027082.D

Acq: 23 May 2017 6:45

Instrument :

BNA\_G

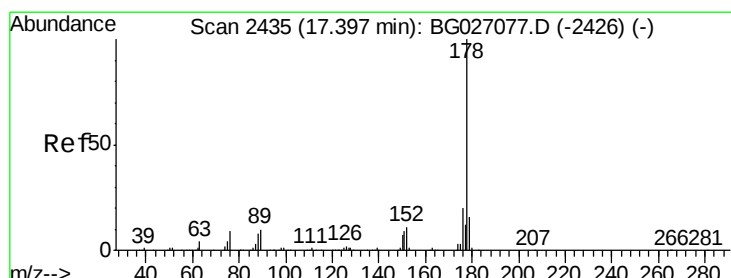
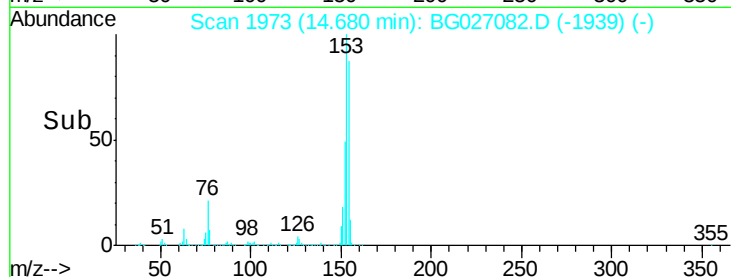
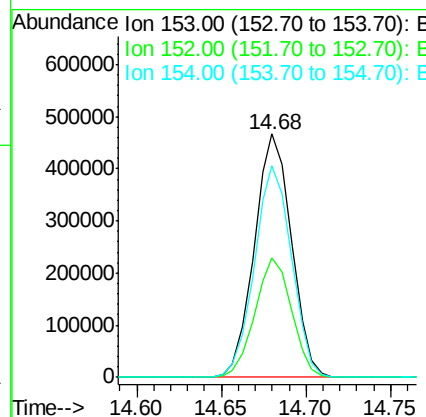
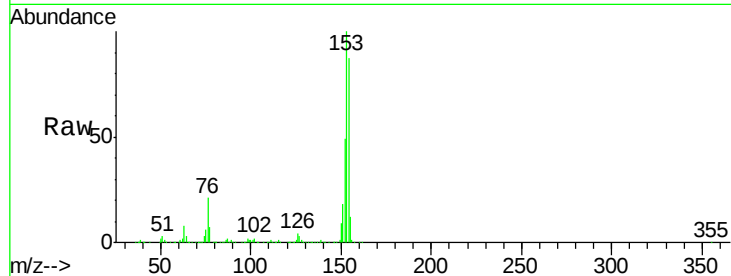
ClientSampleId :

DAC87MS

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 153   | Resp: | 714136 |
| Ion | Ratio | Lower | Upper |        |
| 153 | 100   |       |       |        |
| 152 | 49.1  | 39.0  | 58.6  |        |
| 154 | 86.7  | 66.8  | 100.2 |        |

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#13

Phenanthrene

Concen: 1.13 ng/ul m

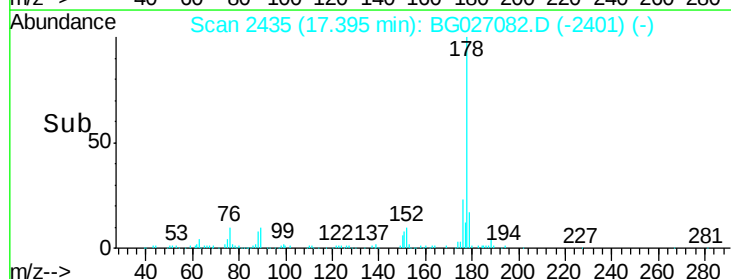
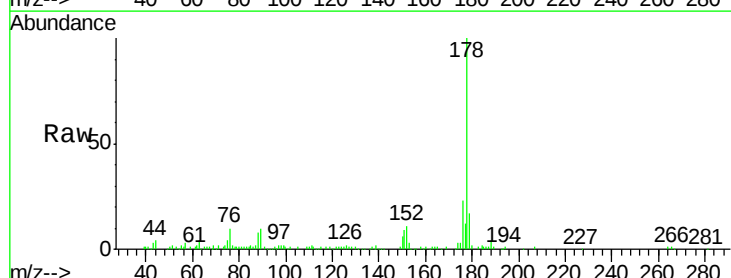
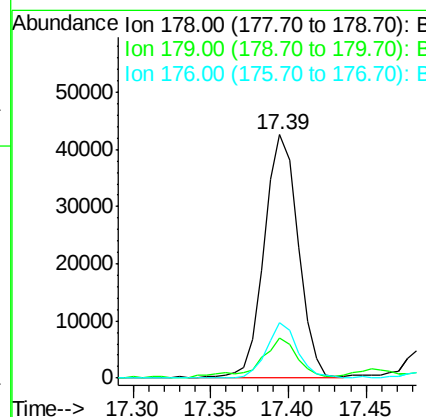
RT: 17.39 min Scan# 2435

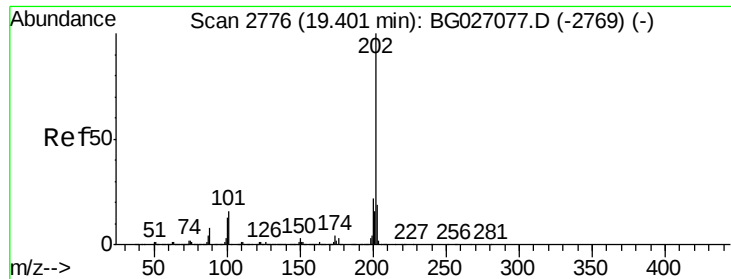
Delta R.T. -0.00 min

Lab File: BG027082.D

Acq: 23 May 2017 6:45

|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 178   | Resp: | 64484 |
| Ion | Ratio | Lower | Upper |       |
| 178 | 100   |       |       |       |
| 179 | 16.5  | 12.3  | 18.5  |       |
| 176 | 22.9  | 15.1  | 22.7# |       |





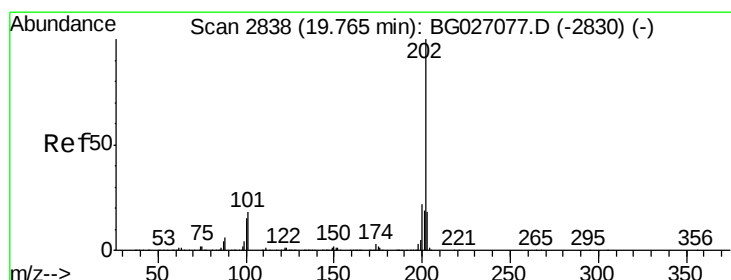
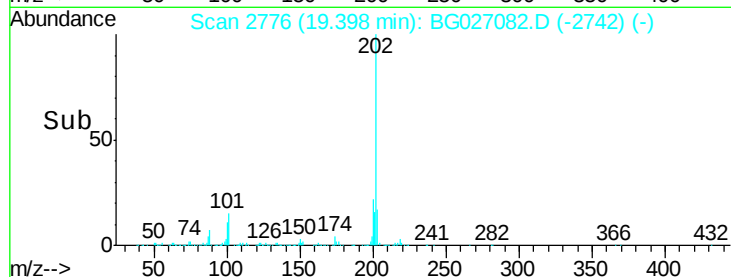
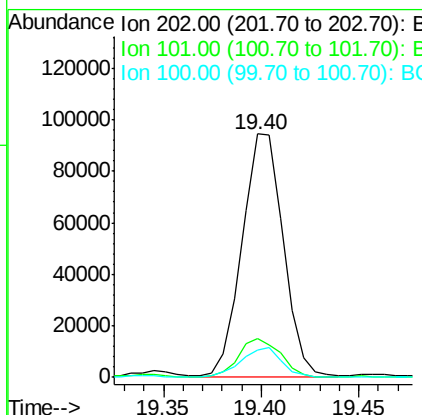
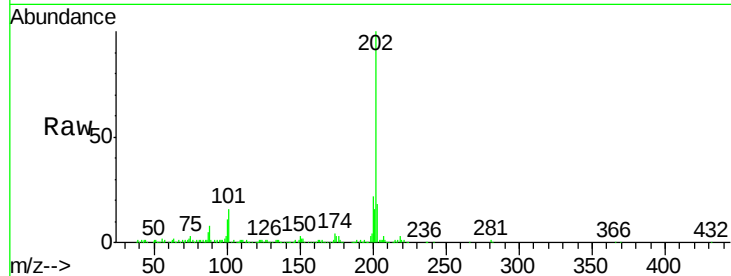
#16  
**Fluoranthene**  
 Concen: 2.37 ng/ul  
 RT: 19.40 min Scan# 2776  
 Delta R.T. -0.00 min  
 Lab File: BG027082.D  
 Acq: 23 May 2017 6:45

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC87MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 15.7  | 9.9        | 14.9#      |
| 100     | 11.3  | 7.4        | 11.0#      |

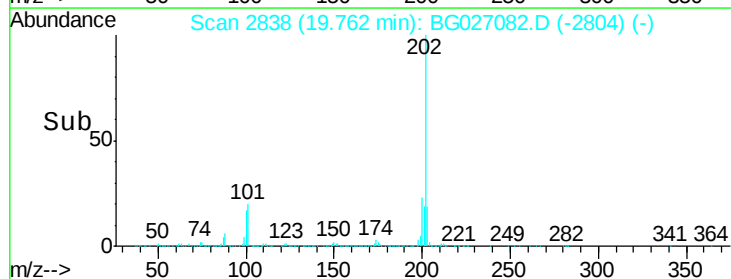
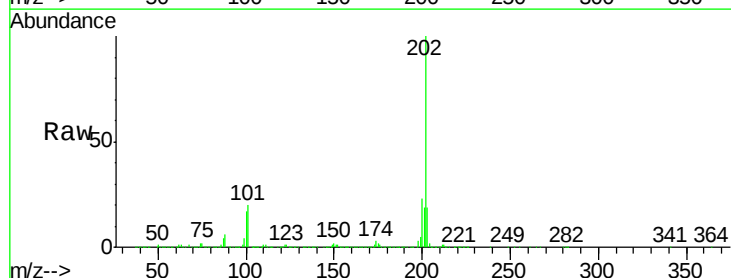
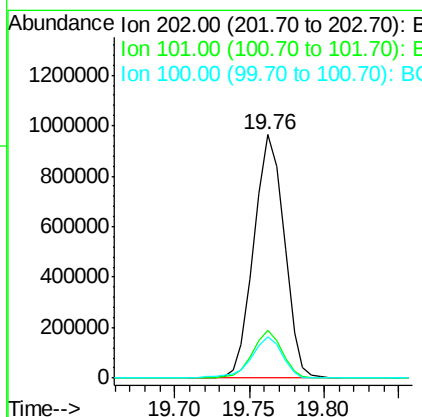
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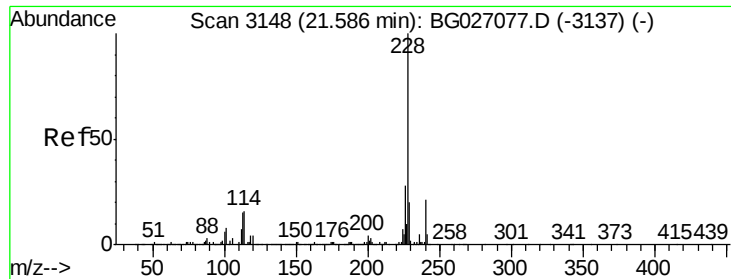
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#19  
**Pyrene**  
 Concen: 23.17 ng/ul  
 RT: 19.76 min Scan# 2838  
 Delta R.T. -0.00 min  
 Lab File: BG027082.D  
 Acq: 23 May 2017 6:45

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 19.9  | 11.0       | 16.4#      |
| 100     | 16.7  | 8.1        | 12.1#      |





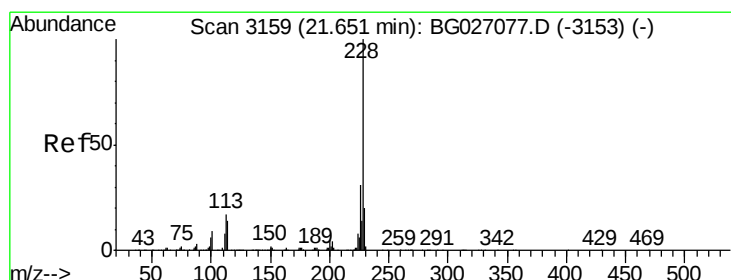
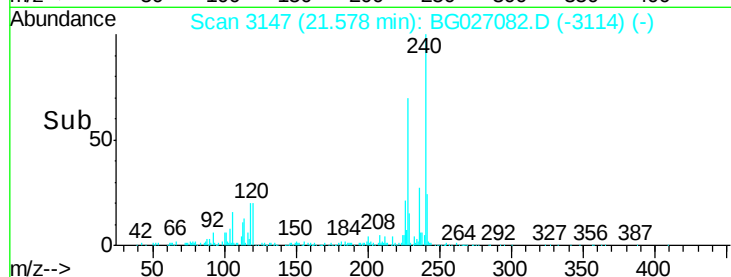
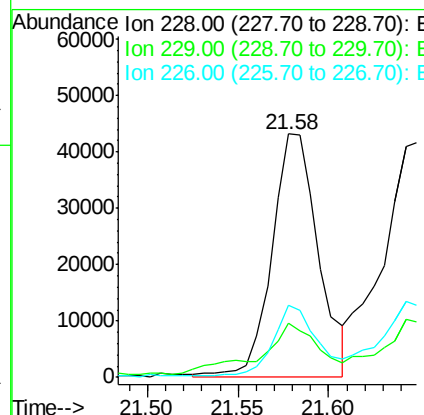
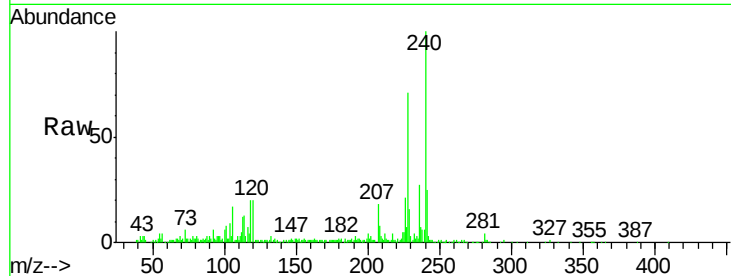
#20  
Benzo(a)anthracene  
Concen: 1.42 ng/ul  
RT: 21.58 min Scan# 3147  
Delta R.T. -0.01 min  
Lab File: BG027082.D  
Acq: 23 May 2017 6:45

Instrument :  
BNA\_G  
ClientSampleId :  
DAC87MS

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 76717 |       |       |
| 229     | 22.1  | 15.7  | 23.5  |       |
| 226     | 29.8  | 21.1  | 31.7  |       |

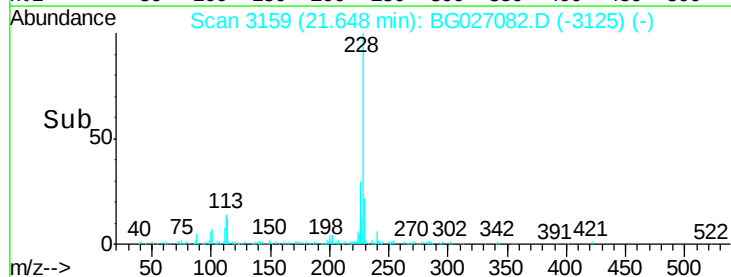
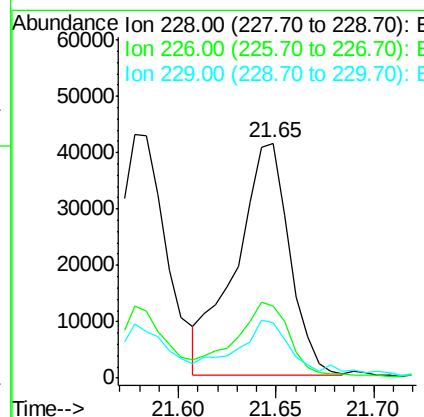
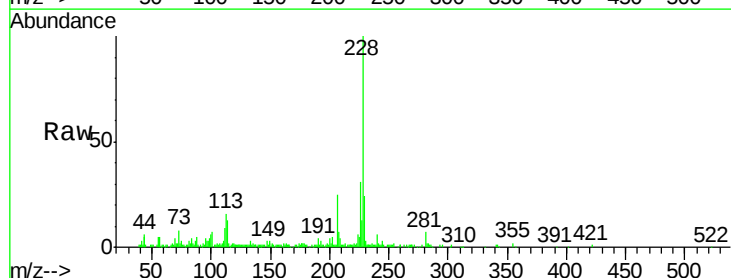
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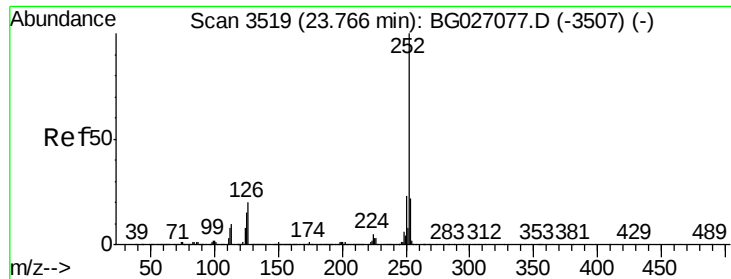
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#21  
Chrysene  
Concen: 1.59 ng/ul  
RT: 21.65 min Scan# 3159  
Delta R.T. -0.00 min  
Lab File: BG027082.D  
Acq: 23 May 2017 6:45

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 78774 |       |       |
| 226     | 30.8  | 24.5  | 36.7  |       |
| 229     | 23.6  | 15.8  | 23.8  |       |





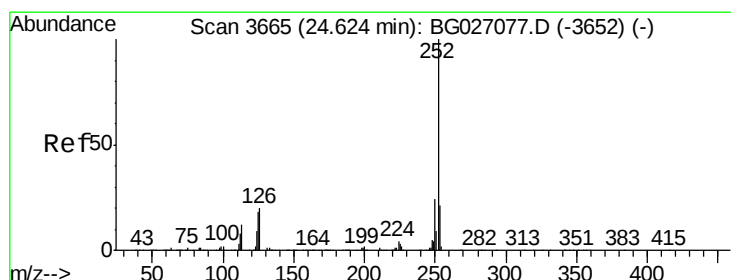
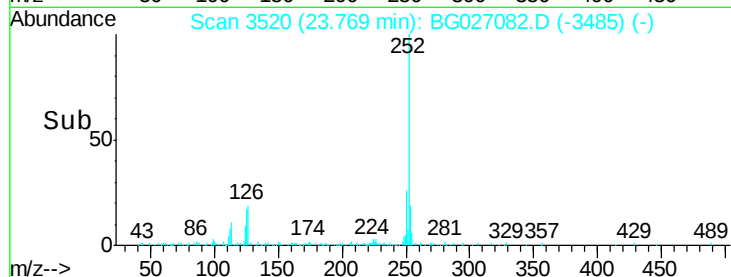
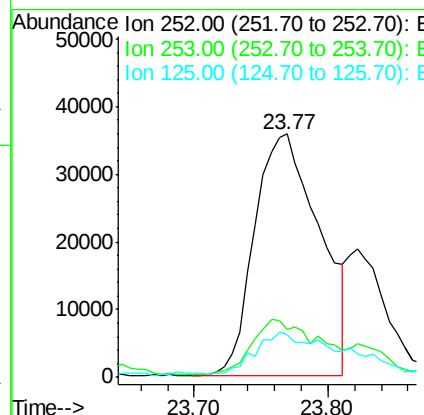
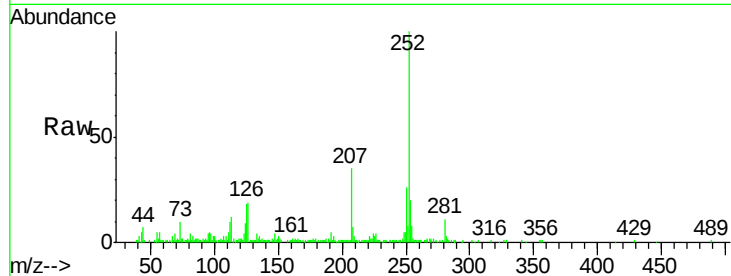
#23  
Benzo(b)fluoranthene  
Concen: 2.37 ng/ul  
RT: 23.77 min Scan# 3520  
Delta R.T. 0.00 min  
Lab File: BG027082.D  
Acq: 23 May 2017 6:45

Instrument :  
BNA\_G  
ClientSampleId :  
DAC87MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 19.6  | 18.0       | 27.0       |
| 125     | 17.7  | 8.0        | 12.0       |

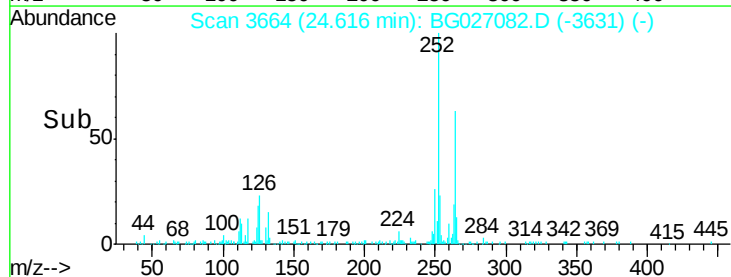
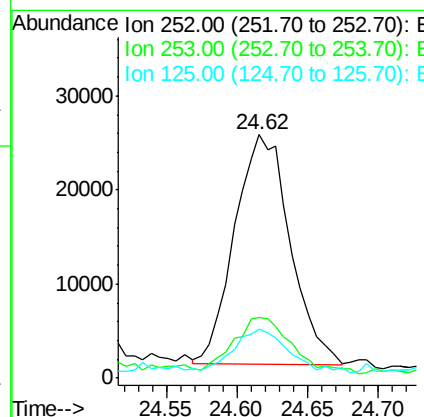
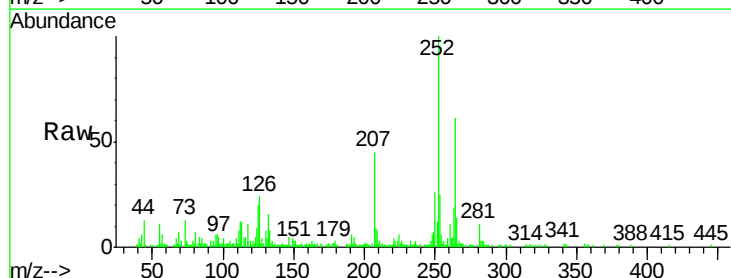
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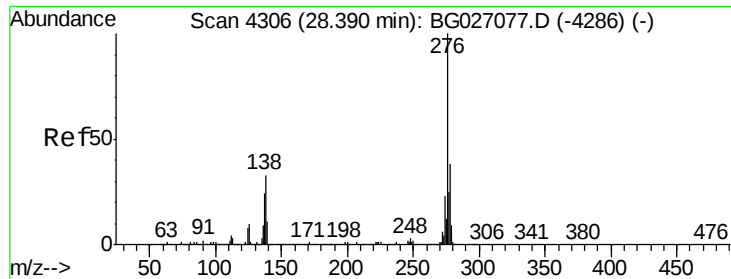
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#26  
Benzo(a)pyrene  
Concen: 1.34 ng/ul  
RT: 24.62 min Scan# 3664  
Delta R.T. -0.01 min  
Lab File: BG027082.D  
Acq: 23 May 2017 6:45

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 24.9  | 17.2       | 25.8       |
| 125     | 20.1  | 8.2        | 12.4       |





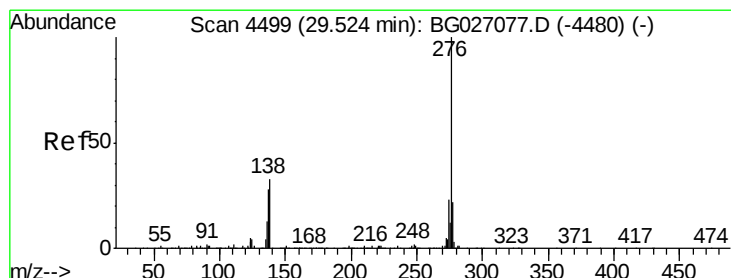
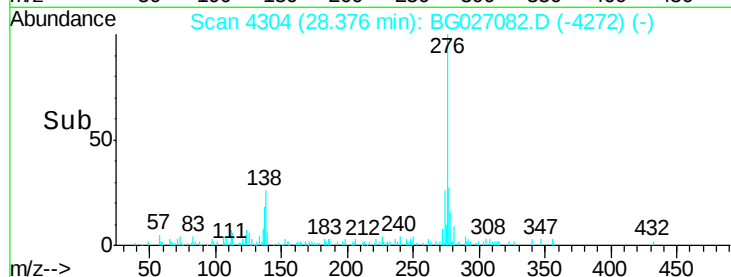
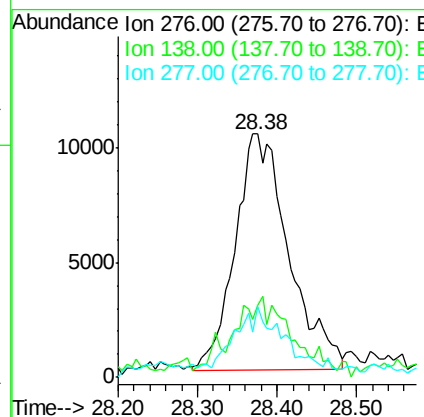
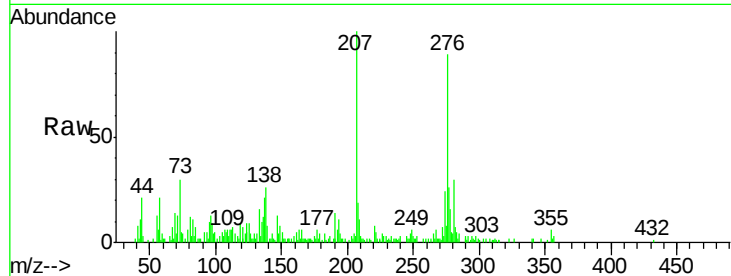
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 Indeno(1,2,3-cd)pyrene  
 Concen: 1.06 ng/ul m  
 RT: 28.38 min Scan# 4304  
 Delta R.T. -0.01 min  
 Lab File: BG027082.D  
 Acq: 23 May 2017 6:45

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC87MS

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 29.6  | 14.4       | 21.6# |
| 277     | 28.9  | 18.0       | 27.0# |

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#29  
 Benzo(g,h,i)perylene  
 Concen: 1.31 ng/ul m  
 RT: 29.50 min Scan# 4495  
 Delta R.T. -0.03 min  
 Lab File: BG027082.D  
 Acq: 23 May 2017 6:45

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 29.9  | 15.3       | 22.9# |
| 277     | 22.5  | 19.0       | 28.4  |

