

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112017\  
 Data File : BG031149.D  
 Acq On : 21 Nov 2017 2:37  
 Operator : SJ/JU  
 Sample : I6475-20  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0G66

Manual Integrations  
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 11/21/2017 2:27:36 PM

Quant Time: Nov 21 07:21:31 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG111617-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Nov 21 07:04:01 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.14  | 152  | 84303    | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.95 | 136  | 395072   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.76 | 164  | 261563   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.50 | 188  | 598967   | 20.00  | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.77 | 240  | 612159   | 20.00  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 25.08 | 264  | 615069   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.58 | 165  | 115482   | 15.49  | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.45 | 160  | 513066   | 18.86  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.74 | 176  | 387440   | 17.73  | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.60 | 188  | 594677   | 19.84  | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.87 | 212  | 676883   | 24.21  | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.85 | 264  | 633541   | 20.82  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 14) Phenanthrene            | 17.54 | 178  | 55614    | 1.730  | ng/ul  | 96       |
| 17) Fluoranthene            | 19.54 | 202  | 170700   | 3.816  | ng/ul# | 88       |
| 20) Pyrene                  | 19.90 | 202  | 168180   | 5.176  | ng/ul# | 90       |
| 21) Benzo(a)anthracene      | 21.75 | 228  | 109213   | 2.928  | ng/ul  | 97       |
| 22) Chrysene                | 21.82 | 228  | 112703   | 3.177  | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 24.02 | 252  | 169423   | 4.559  | ng/ul# | 96       |
| 25) Benzo(k)fluoranthene    | 24.09 | 252  | 51390m   | 1.404  | ng/ul  |          |
| 27) Benzo(a)pyrene          | 24.92 | 252  | 115789m  | 3.251  | ng/ul  |          |
| 28) Indeno(1,2,3-cd)pyrene  | 28.85 | 276  | 76641    | 1.888  | ng/ul# | 93       |
| 30) Benzo(g,h,i)perylene    | 30.05 | 276  | 71195    | 2.106  | ng/ul# | 87       |

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

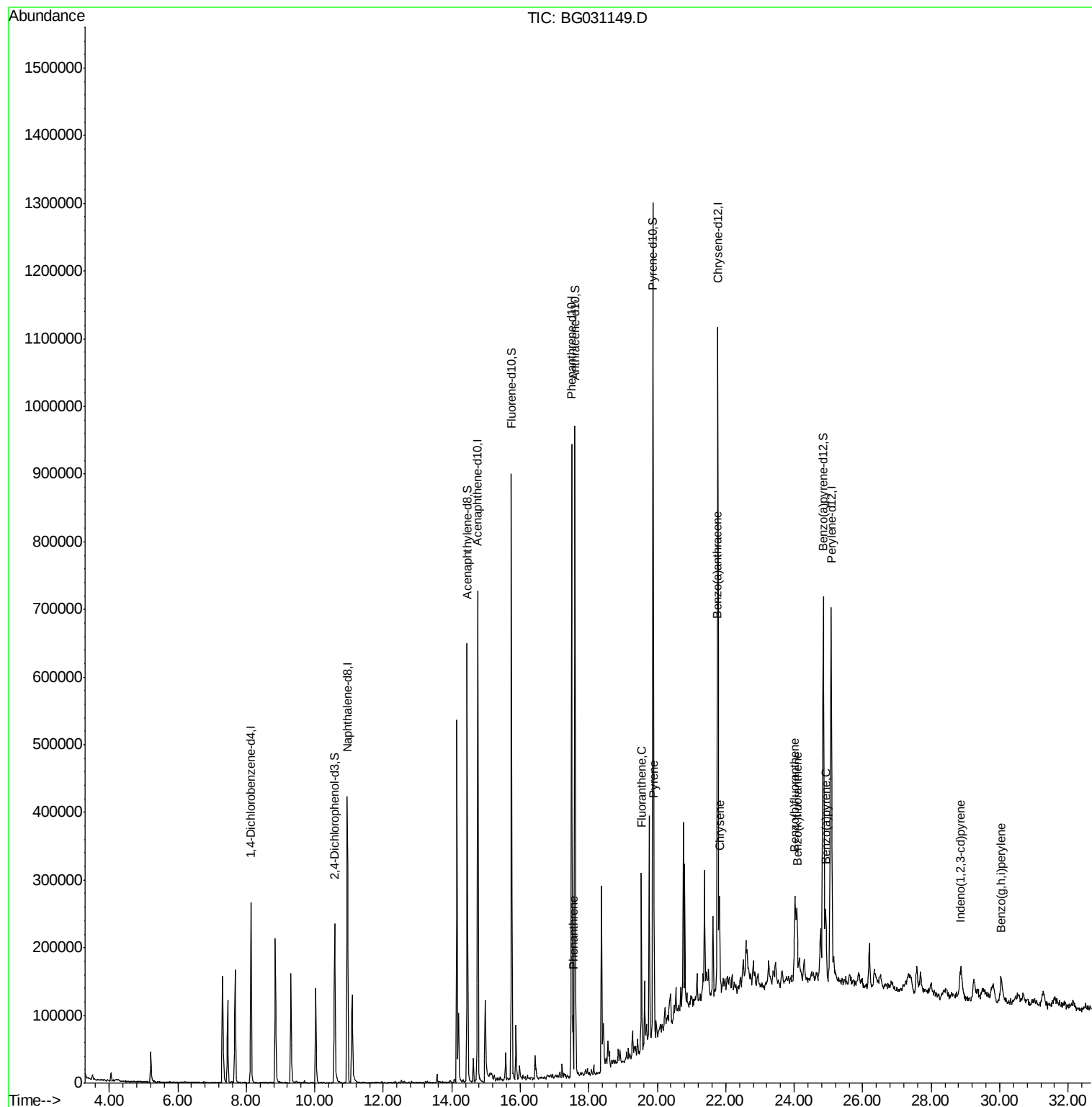
Data Path : Z:\HPCHEM1\BNA G\DATA\BG112017\  
Data File : BG031149.D  
Acq On : 21 Nov 2017 2:37  
Operator : SJ/JU  
Sample : I6475-20  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

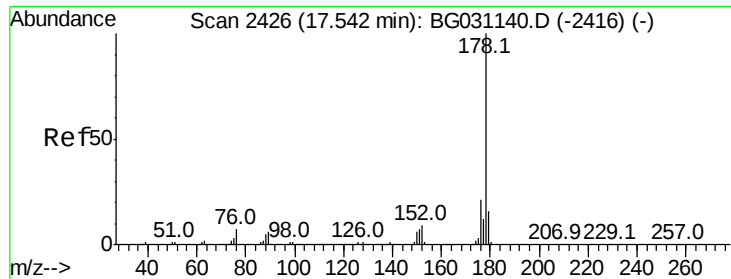
Instrument :  
BNA\_G  
ClientSampleId :  
B0G66

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG111617-PAH.M  
Quant Title : SVOA CALIBRATION  
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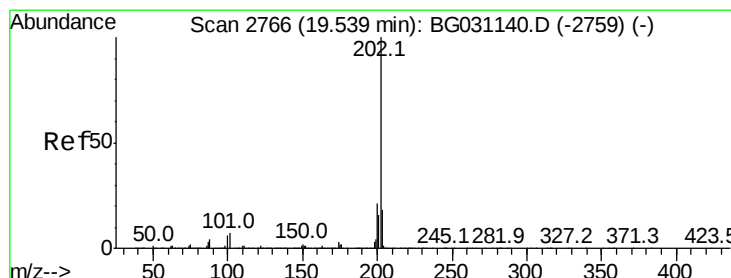
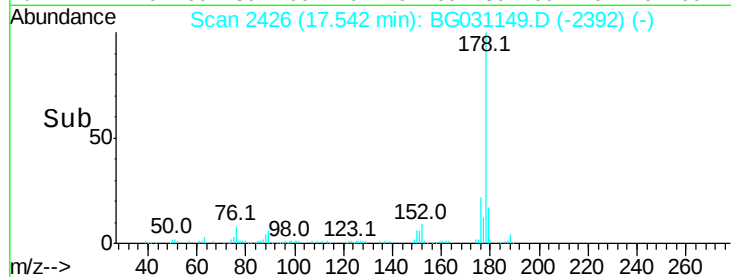
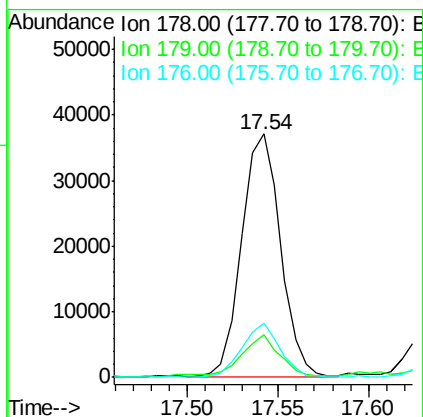
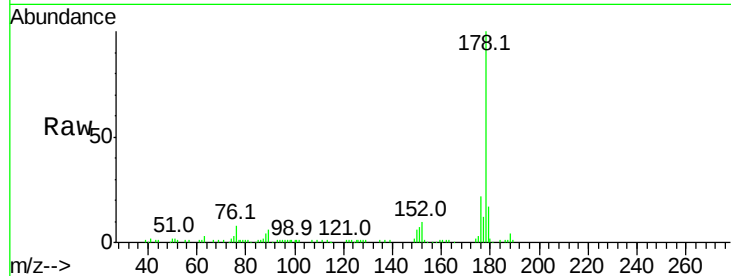
#14  
Phenanthrene  
Concen: 1.730 ng/ul  
RT: 17.54 min Scan# 2426  
Delta R.T. 0.00 min  
Lab File: BG031149.D  
Acq: 21 Nov 2017 2:37

Instrument :  
BNA\_G  
ClientSampled :  
B0G66

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.3  | 12.2  | 18.4  |
| 176     | 22.0  | 16.4  | 24.6  |

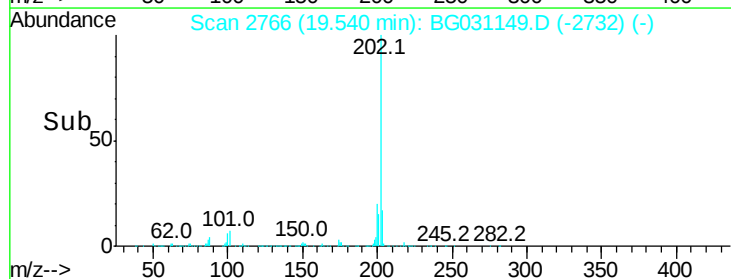
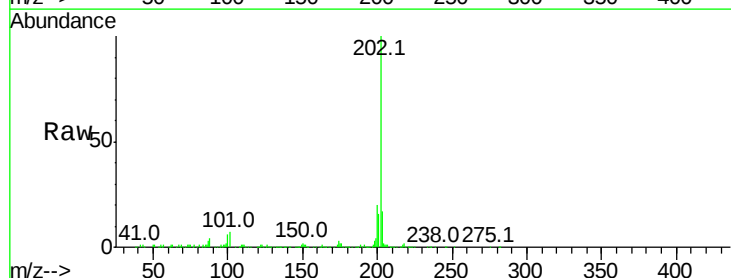
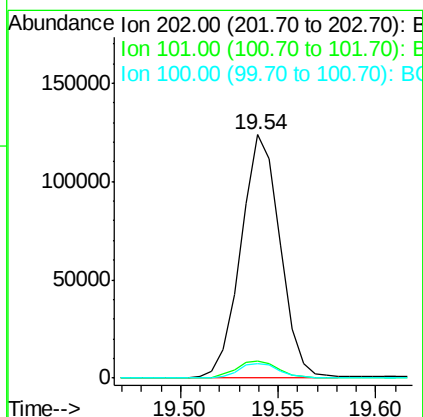
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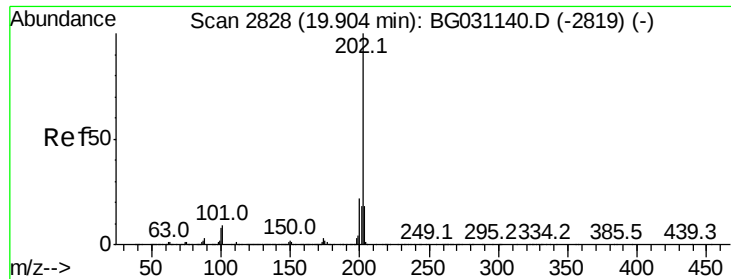
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#17  
Fluoranthene  
Concen: 3.816 ng/ul  
RT: 19.54 min Scan# 2766  
Delta R.T. 0.00 min  
Lab File: BG031149.D  
Acq: 21 Nov 2017 2:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.0   | 9.8   | 14.8# |
| 100     | 6.0   | 7.5   | 11.3# |





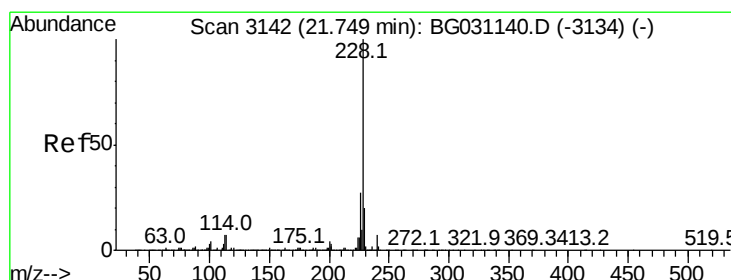
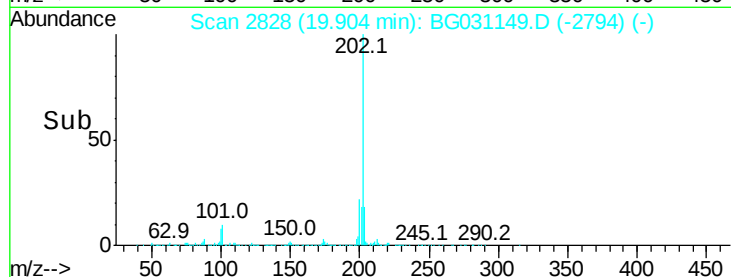
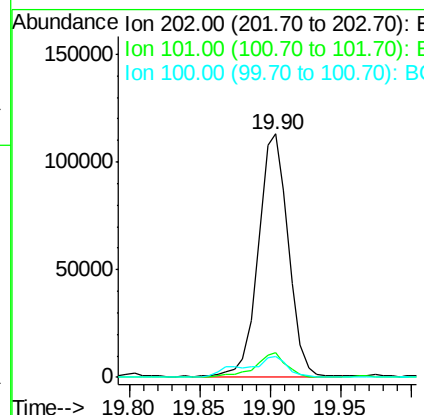
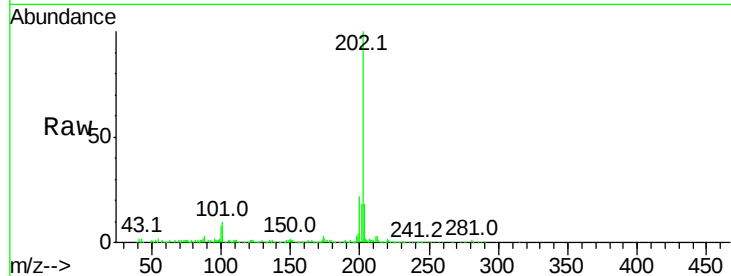
#20  
Pvrene  
Concen: 5.176 ng/ul  
RT: 19.90 min Scan# 2828  
Delta R.T. 0.00 min  
Lab File: BG031149.D  
Acq: 21 Nov 2017 2:37

Instrument :  
BNA\_G  
ClientSampleId :  
B0G66

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.0  | 11.2       | 16.8# |
| 100     | 8.4   | 9.8        | 14.6# |

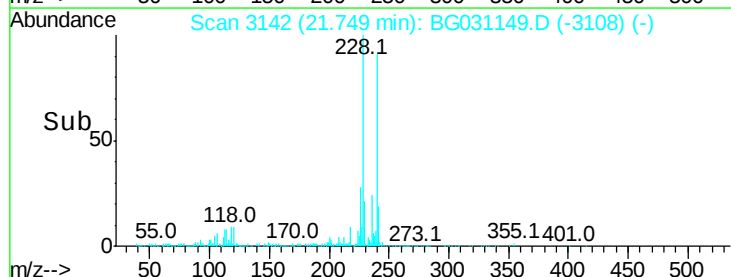
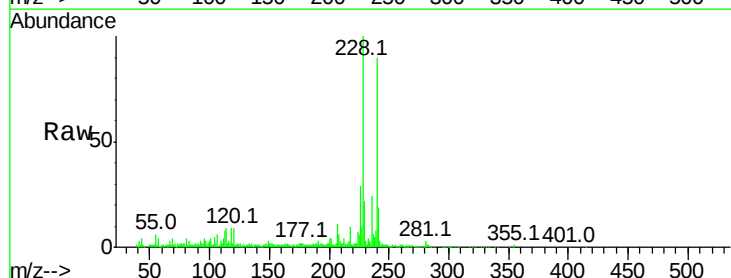
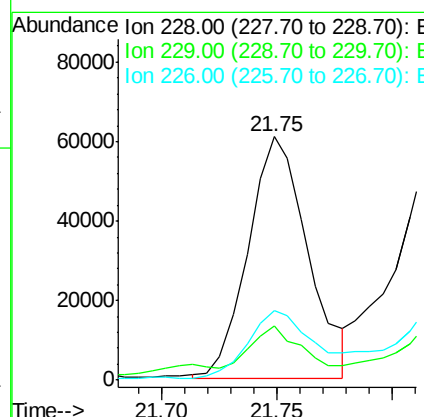
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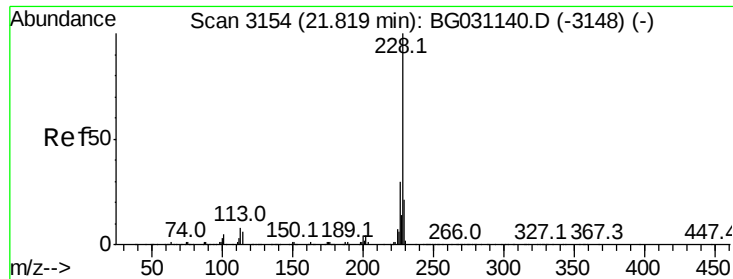
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#21  
Benzo(a)anthracene  
Concen: 2.928 ng/ul  
RT: 21.75 min Scan# 3142  
Delta R.T. 0.00 min  
Lab File: BG031149.D  
Acq: 21 Nov 2017 2:37

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 22.4  | 15.9       | 23.9  |
| 226     | 28.5  | 22.1       | 33.1  |





#22

Chrysene

Concen: 3.177 ng/ul

RT: 21.82 min Scan# 3154

Delta R.T. 0.00 min

Lab File: BG031149.D

Acq: 21 Nov 2017 2:37

Instrument :

BNA\_G

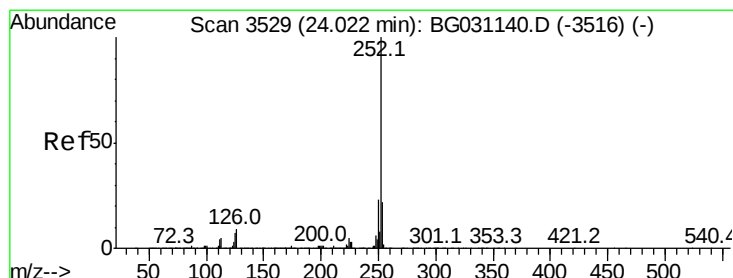
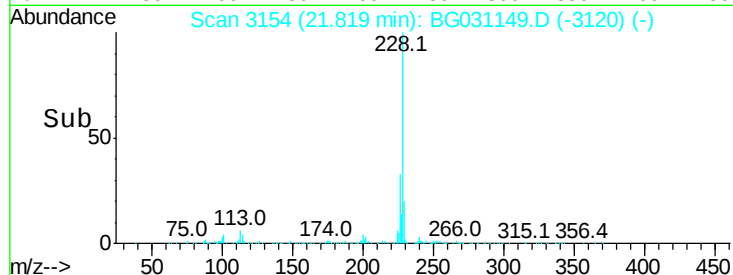
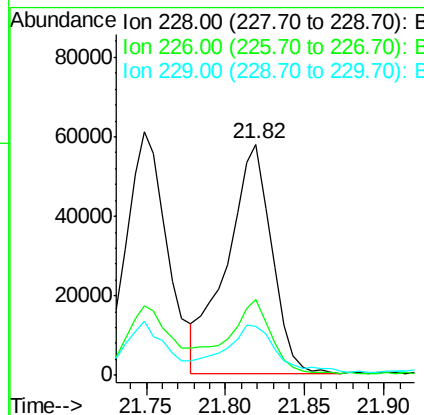
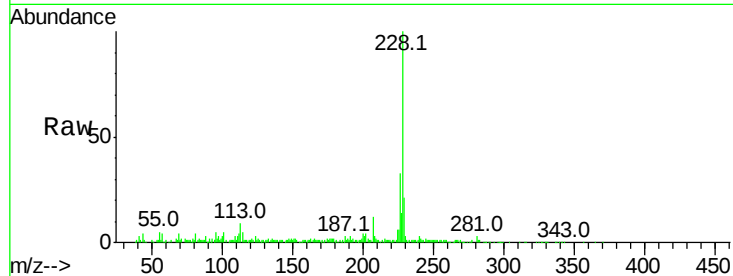
ClientSampled :

B0G66

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 112703 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 32.8  | 25.0  | 37.6   |
| 229       | 21.4  | 16.6  | 25.0   |

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#24

Benzo(b)fluoranthene

Concen: 4.559 ng/ul

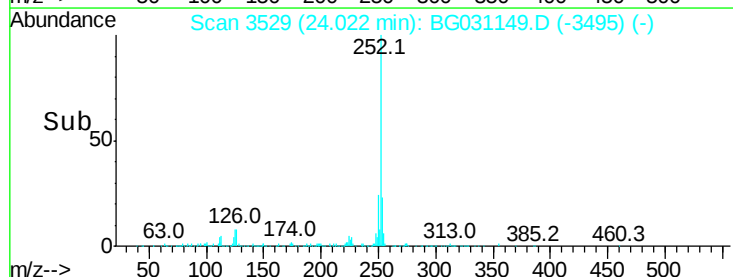
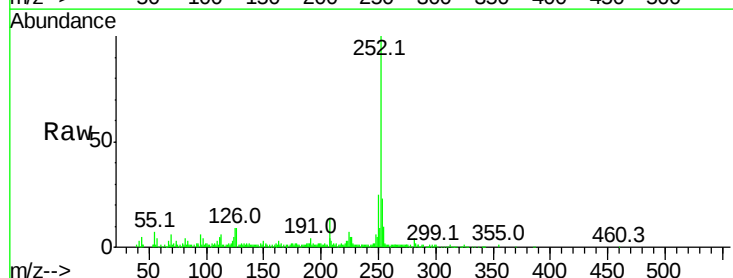
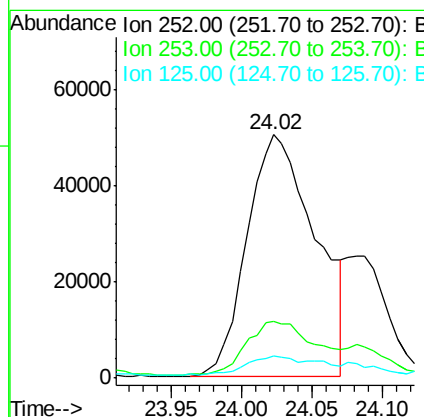
RT: 24.02 min Scan# 3529

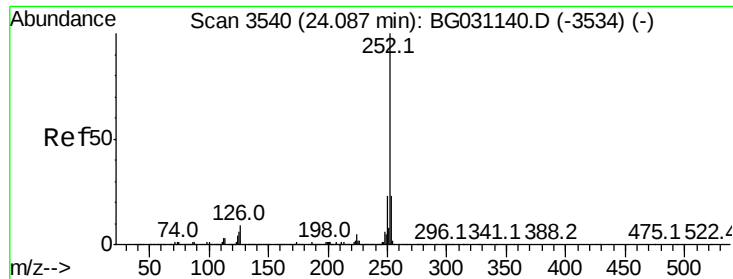
Delta R.T. 0.00 min

Lab File: BG031149.D

Acq: 21 Nov 2017 2:37

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 169423 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 17.8  | 26.6   |
| 125       | 9.0   | 9.4   | 14.0#  |





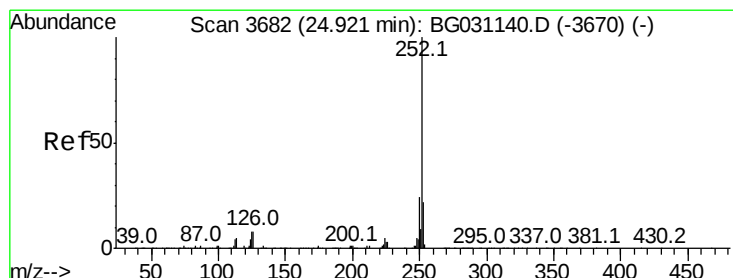
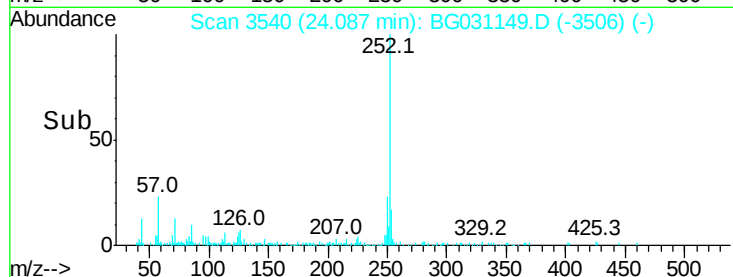
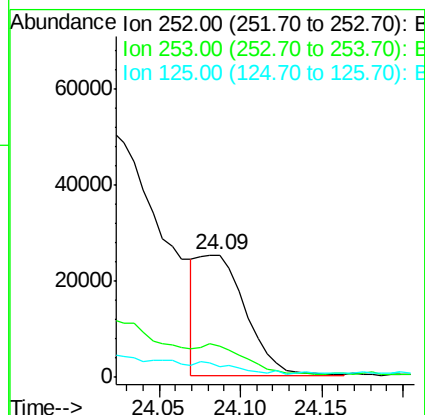
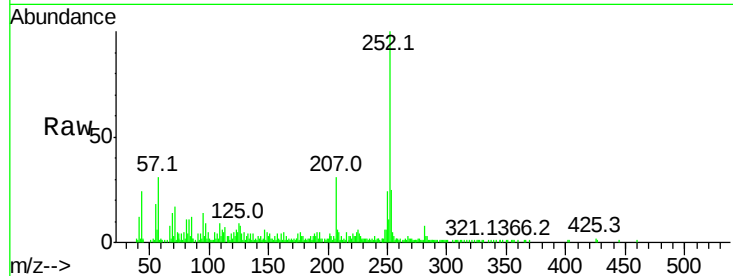
#25  
Benzo(k)fluoranthene  
Concen: 1.404 ng/ul m  
RT: 24.09 min Scan# 3540  
Delta R.T. 0.00 min  
Lab File: BG031149.D  
Acq: 21 Nov 2017 2:37

Instrument :  
BNA\_G  
ClientSampleId :  
B0G66

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.4  | 17.4  | 26.2  |
| 125     | 8.6   | 8.8   | 13.2# |

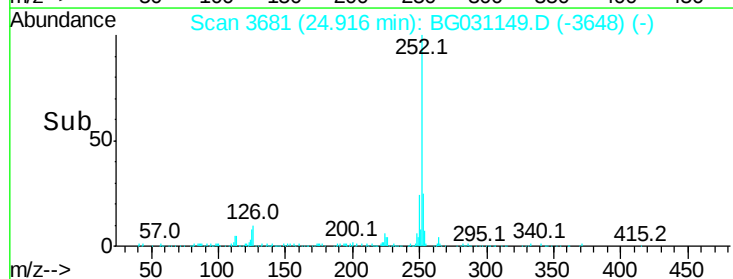
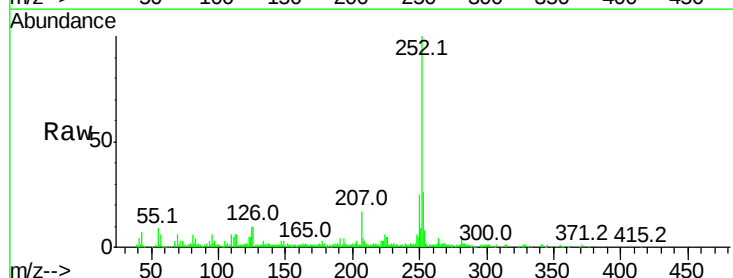
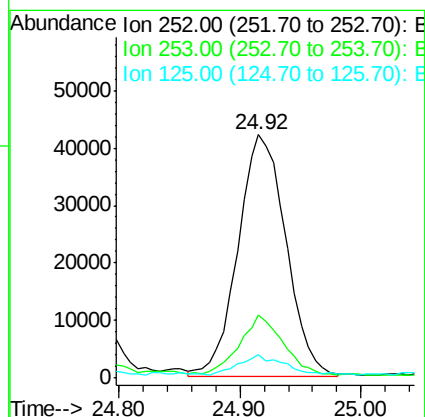
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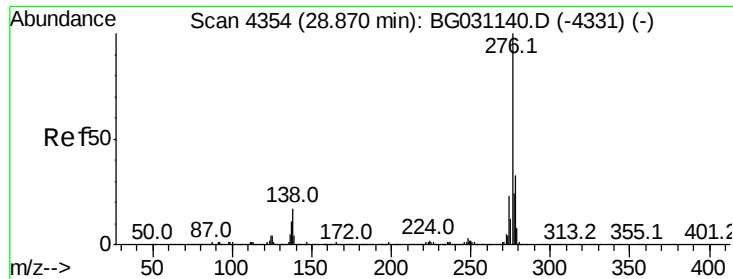
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#27  
Benzo(a)pyrene  
Concen: 3.251 ng/ul m  
RT: 24.92 min Scan# 3681  
Delta R.T. -0.01 min  
Lab File: BG031149.D  
Acq: 21 Nov 2017 2:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.0  | 17.1  | 25.7# |
| 125     | 9.7   | 9.4   | 14.2  |





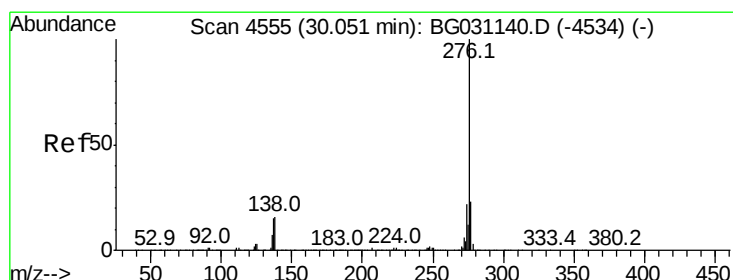
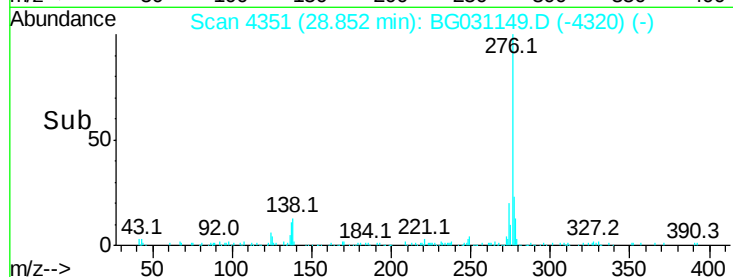
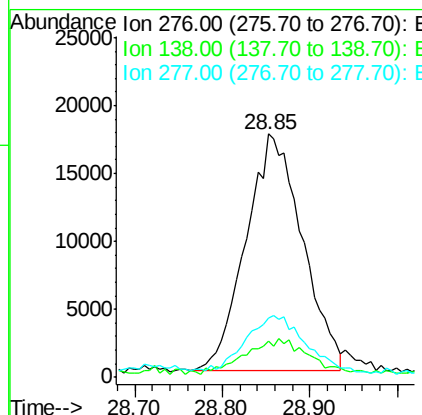
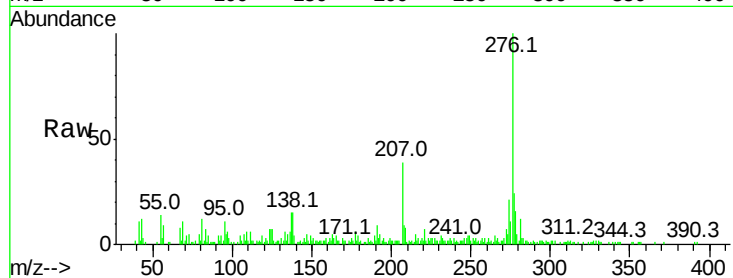
#28  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.888 ng/ul  
 RT: 28.85 min Scan# 4351  
 Delta R.T. -0.02 min  
 Lab File: BG031149.D  
 Acq: 21 Nov 2017 2:37

Instrument :  
 BNA\_G  
 ClientSampled :  
 B0G66

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.1  | 17.8  | 26.6# |
| 277     | 24.2  | 19.4  | 29.0  |

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#30  
 Benzo(g,h,i)perylene  
 Concen: 2.106 ng/ul  
 RT: 30.05 min Scan# 4555  
 Delta R.T. 0.00 min  
 Lab File: BG031149.D  
 Acq: 21 Nov 2017 2:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.5  | 19.0  | 28.4# |
| 277     | 29.2  | 19.7  | 29.5  |

