

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\  
 Data File : BG046405.D  
 Acq On : 21 Aug 2020 9:21  
 Operator : CG/JU  
 Sample : L3635-03  
 Misc :  
 ALS Vial : 69 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMG9

Manual Integrations  
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Quant Time: Aug 21 12:52:30 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 20 11:14:19 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.94  | 152  | 94984    | 20.00  | ng/ul | 0.00     |
| 2) Naphthalene-d8           | 10.73 | 136  | 390319   | 20.00  | ng/ul | 0.00     |
| 6) Acenaphthene-d10         | 14.57 | 164  | 259151   | 20.00  | ng/ul | 0.00     |
| 12) Phenanthrene-d10        | 17.31 | 188  | 571869   | 20.00  | ng/ul | 0.00     |
| 18) Chrysene-d12            | 21.56 | 240  | 535160   | 20.00  | ng/ul | 0.00     |
| 23) Perylene-d12            | 24.68 | 264  | 598469   | 20.00  | ng/ul | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 3) 2,4-Dichlorophenol-d3    | 10.36 | 165  | 266115   | 39.60  | ng/ul | 0.00     |
| 7) Acenaphthylene-d8        | 14.26 | 160  | 952570   | 39.94  | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.56 | 176  | 723704   | 39.60  | ng/ul | 0.00     |
| 15) Anthracene-d10          | 17.41 | 188  | 1037988  | 39.16  | ng/ul | 0.00     |
| 19) Pyrene-d10              | 19.70 | 212  | 1138047  | 41.31  | ng/ul | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.47 | 264  | 1284157  | 39.32  | ng/ul | 0.02     |
| Target Compounds            |       |      |          | Qvalue |       |          |
| 14) Phenanthrene            | 17.36 | 178  | 480056   | 15.259 | ng/ul | 99       |
| 16) Anthracene              | 17.44 | 178  | 53018    | 1.670  | ng/ul | 99       |
| 17) Fluoranthene            | 19.37 | 202  | 905156   | 25.802 | ng/ul | 100      |
| 20) Pyrene                  | 19.73 | 202  | 808789   | 23.024 | ng/ul | 98       |
| 21) Benzo(a)anthracene      | 21.55 | 228  | 463578   | 13.314 | ng/ul | 97       |
| 22) Chrysene                | 21.60 | 228  | 518052   | 15.391 | ng/ul | 97       |
| 24) Benzo(b)fluoranthene    | 23.70 | 252  | 759336   | 19.187 | ng/ul | 98       |
| 25) Benzo(k)fluoranthene    | 23.75 | 252  | 260802m  | 6.643  | ng/ul |          |
| 27) Benzo(a)pyrene          | 24.53 | 252  | 500731   | 13.782 | ng/ul | 99       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.20 | 276  | 343402   | 7.548  | ng/ul | 98       |
| 29) Dibenzo(a,h)anthracene  | 28.25 | 278  | 89581    | 2.429  | ng/ul | 95       |
| 30) Benzo(a,h,i)perylene    | 29.29 | 276  | 297035   | 7.802  | ng/ul | 99       |

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

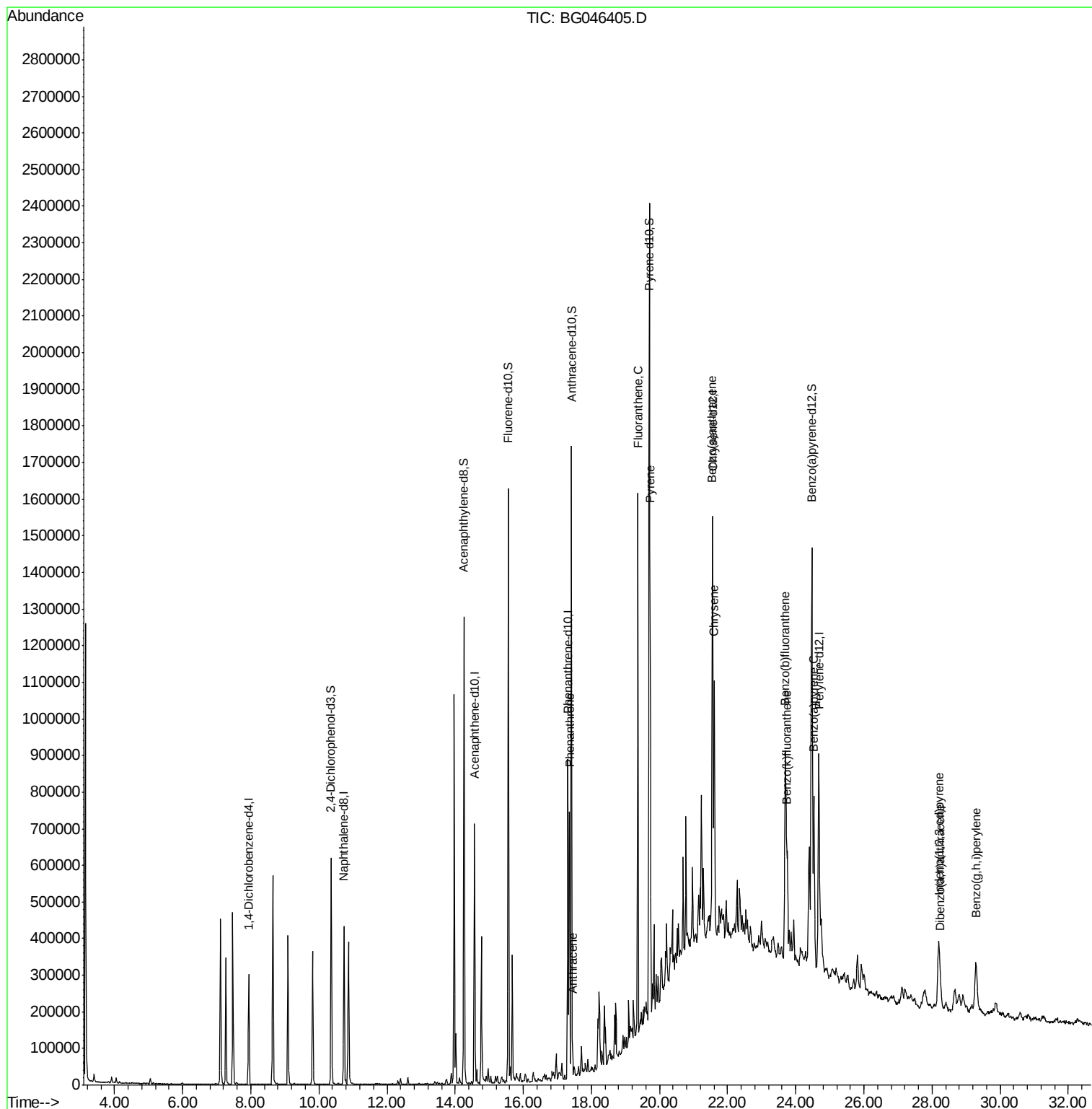
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\  
Data File : BG046405.D  
Acq On : 21 Aug 2020 9:21  
Operator : CG/JU  
Sample : L3635-03  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

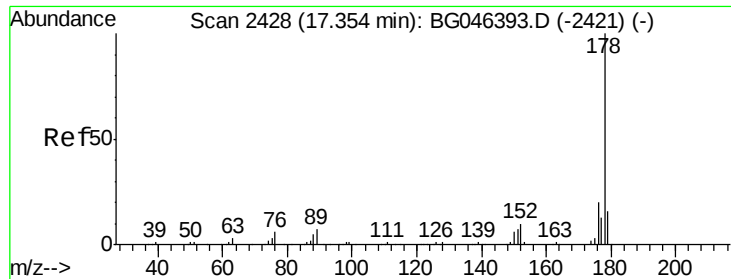
Instrument :  
BNA\_G  
ClientSampleId :  
BFMG9

Quant Time: Aug 21 12:52:30 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 20 11:14:19 2020  
Response via : Initial Calibration

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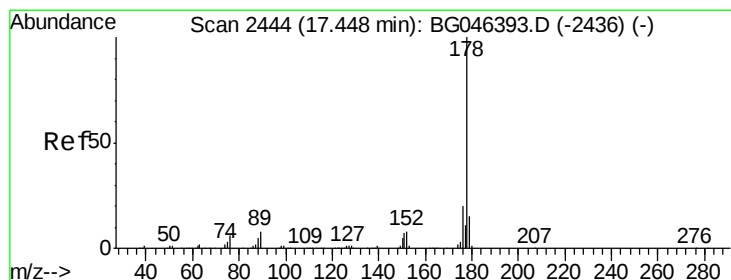
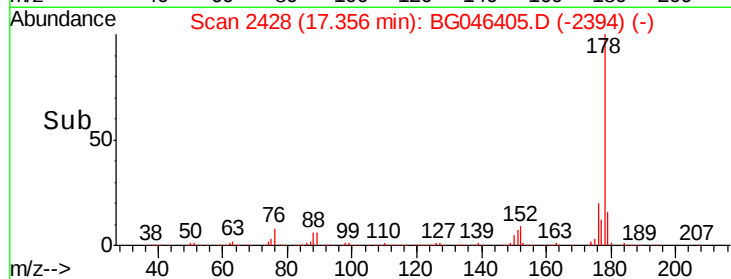
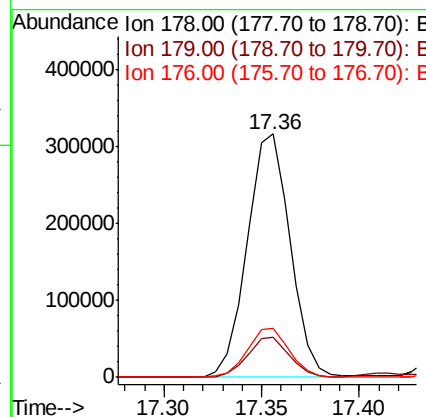
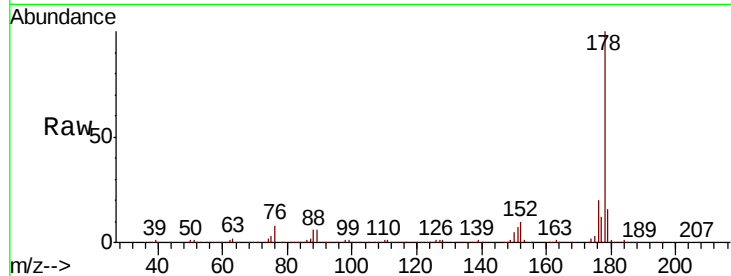
#14  
Phenanthrene  
Concen: 15.259 ng/ul  
RT: 17.36 min Scan# 2428  
Delta R.T. 0.00 min  
Lab File: BG046405.D  
Acq: 21 Aug 2020 9:21

Instrument :  
BNA\_G  
ClientSampleId :  
BFMG9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.5  | 12.8  | 19.2  |
| 176     | 20.1  | 15.8  | 23.8  |

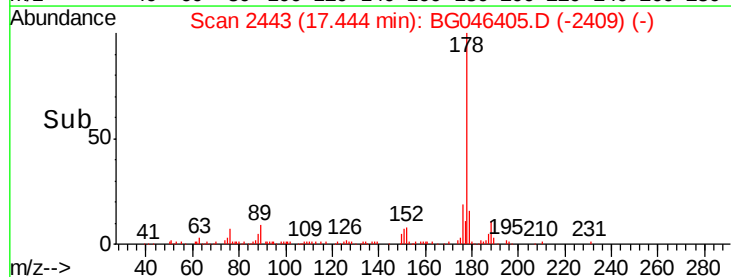
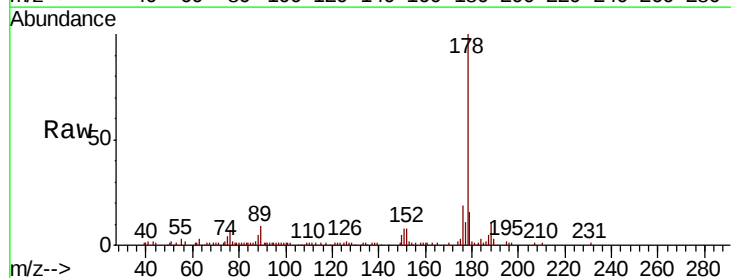
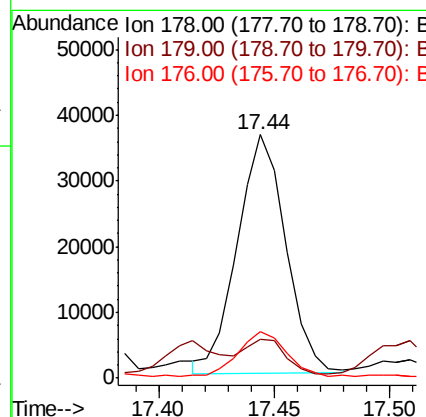
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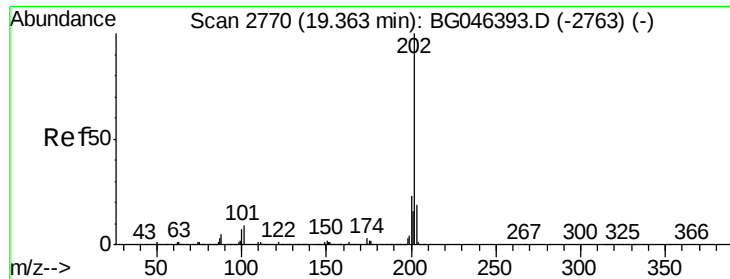
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#16  
Anthracene  
Concen: 1.670 ng/ul  
RT: 17.44 min Scan# 2443  
Delta R.T. 0.00 min  
Lab File: BG046405.D  
Acq: 21 Aug 2020 9:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 13.2  | 19.8  |
| 176     | 19.3  | 15.2  | 22.8  |





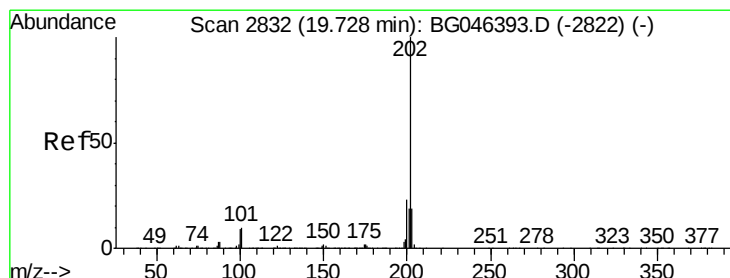
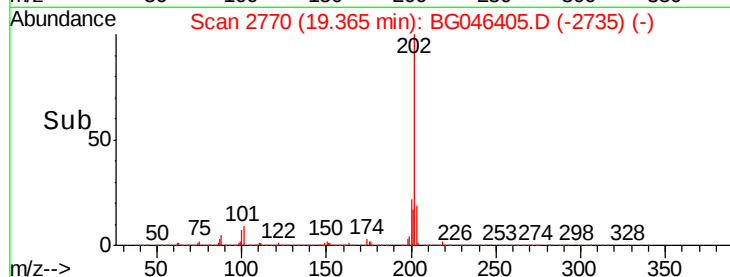
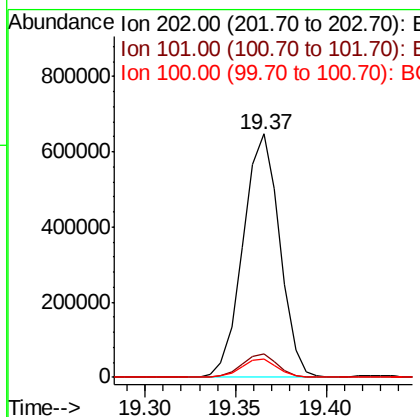
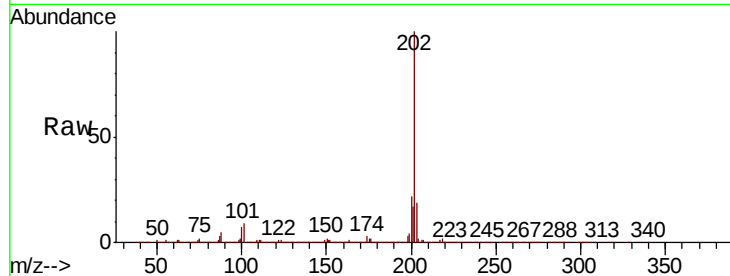
#17  
**Fluoranthene**  
 Concen: 25.802 ng/ul  
 RT: 19.37 min Scan# 2770  
 Delta R.T. 0.01 min  
 Lab File: BG046405.D  
 Acq: 21 Aug 2020 9:21

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMG9

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 905156 |       |       |
| 101     | 9.5   | 7.8    | 11.6  |       |
| 100     | 7.4   | 5.9    | 8.9   |       |

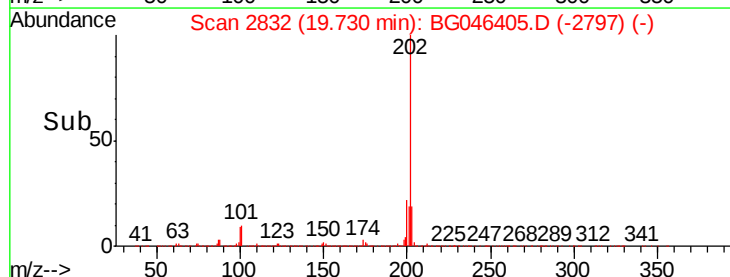
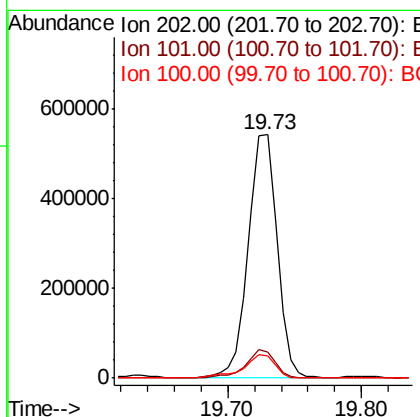
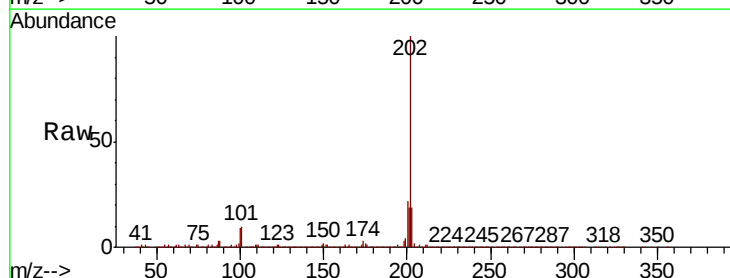
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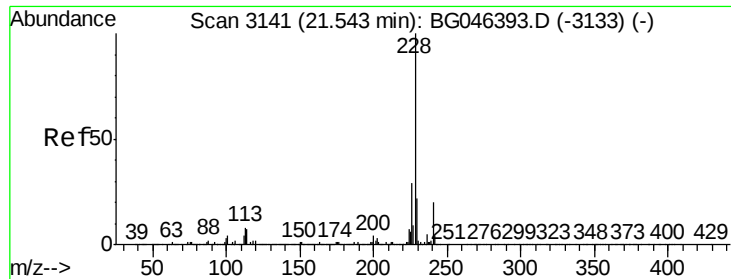
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#20  
**Pyrene**  
 Concen: 23.024 ng/ul  
 RT: 19.73 min Scan# 2832  
 Delta R.T. 0.01 min  
 Lab File: BG046405.D  
 Acq: 21 Aug 2020 9:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 808789 |       |       |
| 101     | 10.5  | 8.9    | 13.3  |       |
| 100     | 9.0   | 7.9    | 11.9  |       |





#21

Benzo(a)anthracene

Concen: 13.314 ng/ul

RT: 21.55 min Scan# 3141

Delta R.T. 0.01 min

Lab File: BG046405.D

Acq: 21 Aug 2020 9:21

Instrument :

BNA\_G

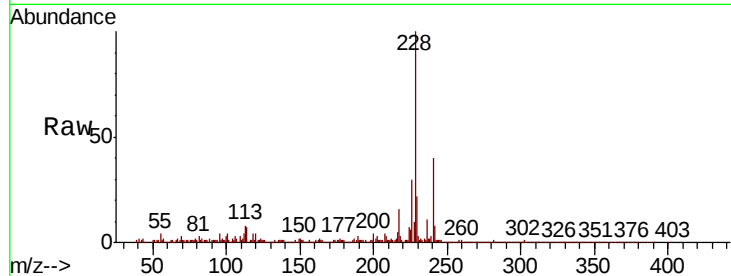
ClientSampleId :

BFMG9

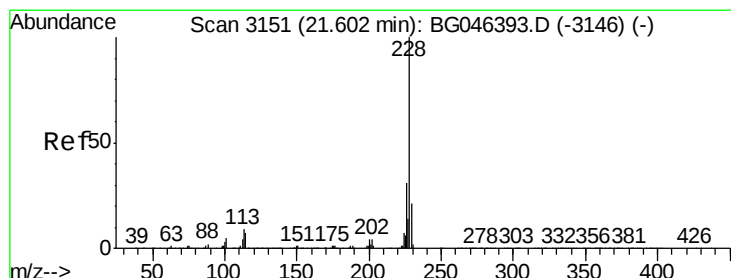
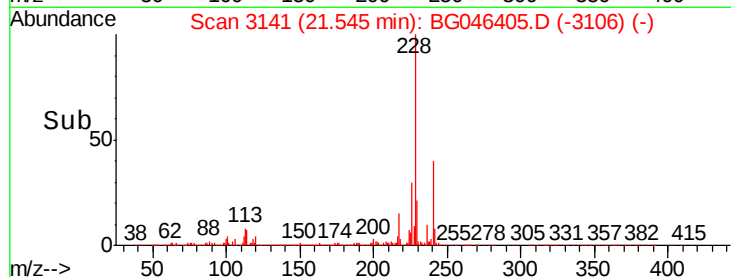
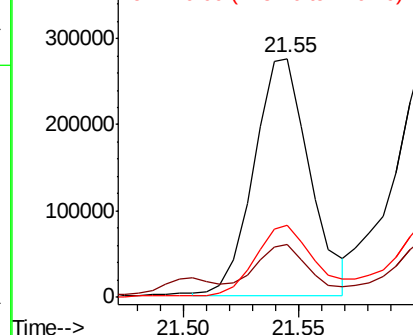
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 463578 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.9  | 16.6  | 25.0   |
| 226       | 30.4  | 22.6  | 33.8   |

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



#22

Chrysene

Concen: 15.391 ng/ul

RT: 21.60 min Scan# 3151

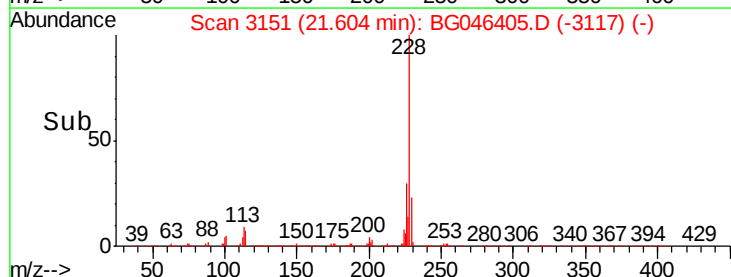
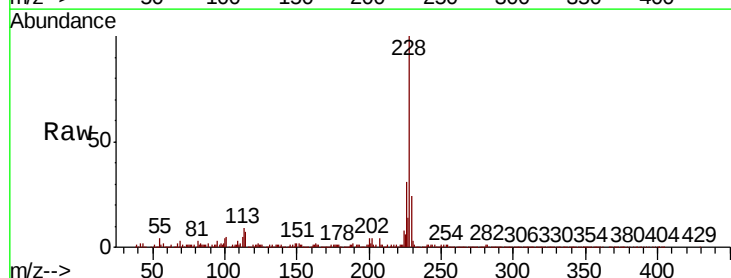
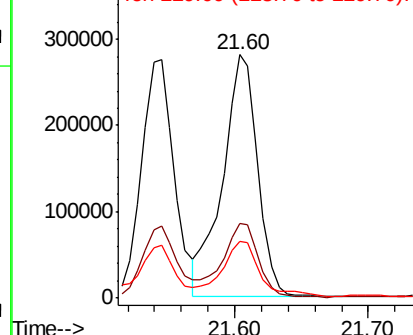
Delta R.T. 0.00 min

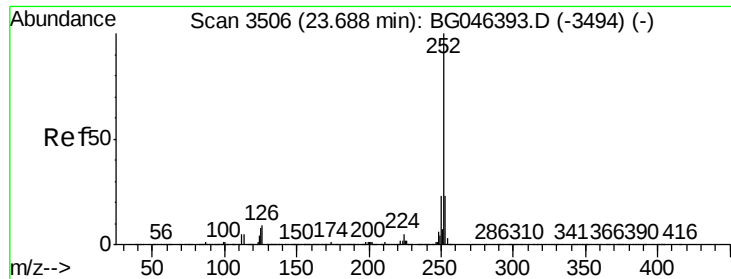
Lab File: BG046405.D

Acq: 21 Aug 2020 9:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 518052 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.7  | 25.5  | 38.3   |
| 229       | 23.5  | 17.0  | 25.4   |

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





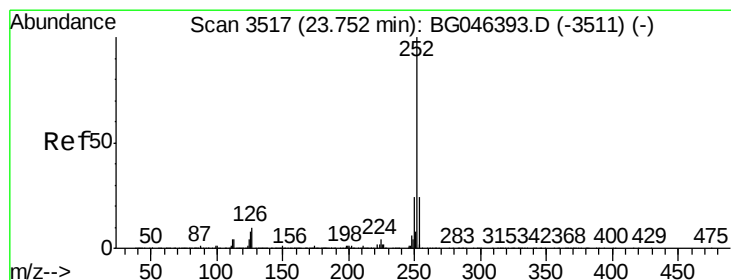
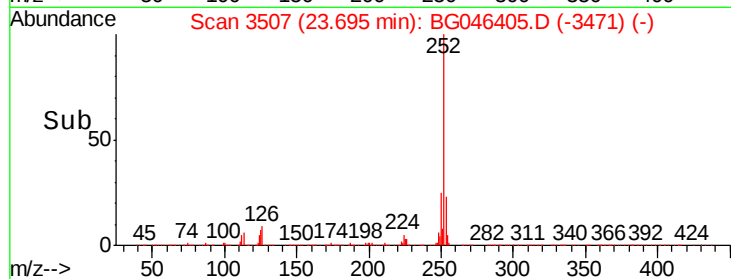
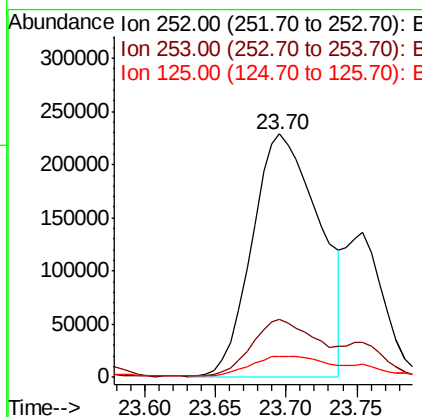
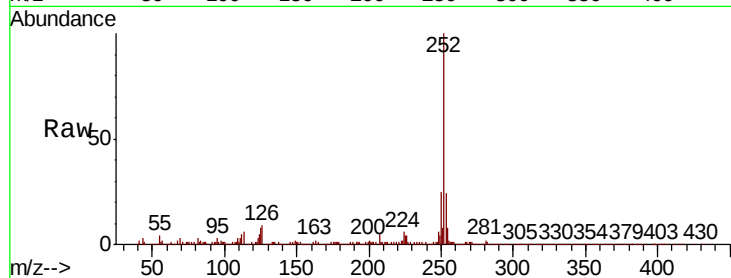
#24  
Benzo(b)fluoranthene  
Concen: 19.187 ng/ul  
RT: 23.70 min Scan# 3507  
Delta R.T. 0.01 min  
Lab File: BG046405.D  
Acq: 21 Aug 2020 9:21

Instrument :  
BNA\_G  
ClientSampleId :  
BFMG9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.8  | 26.6  |
| 125     | 8.5   | 6.4   | 9.6   |

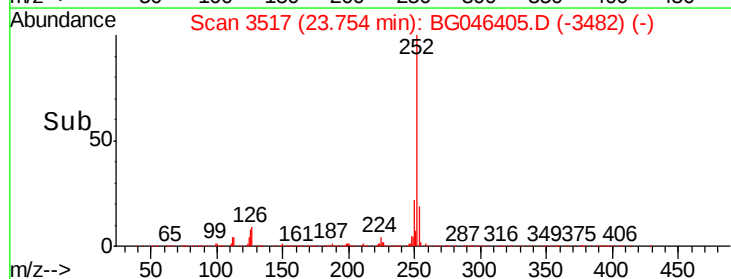
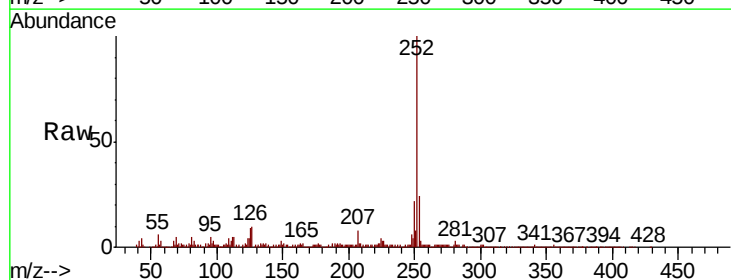
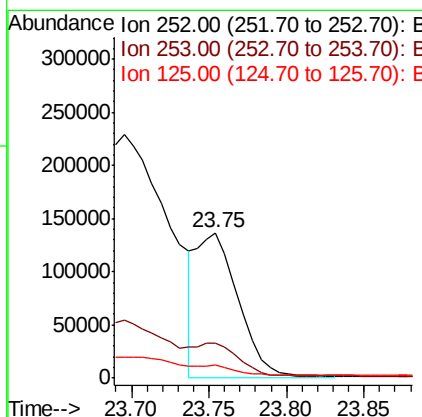
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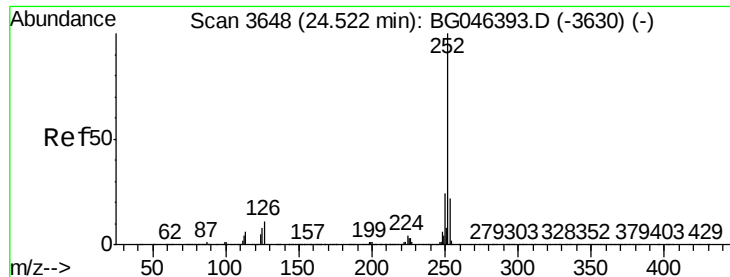
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#25  
Benzo(k)fluoranthene  
Concen: 6.643 ng/ul m  
RT: 23.75 min Scan# 3517  
Delta R.T. 0.01 min  
Lab File: BG046405.D  
Acq: 21 Aug 2020 9:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.5  | 27.7  |
| 125     | 8.8   | 6.2   | 9.2   |





#27

Benzo(a)pyrene

Concen: 13.782 ng/ul

RT: 24.53 min Scan# 3649

Delta R.T. 0.01 min

Lab File: BG046405.D

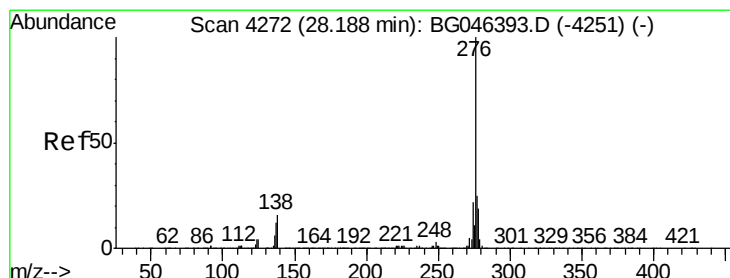
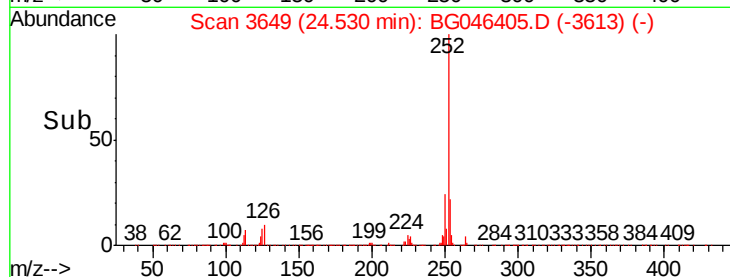
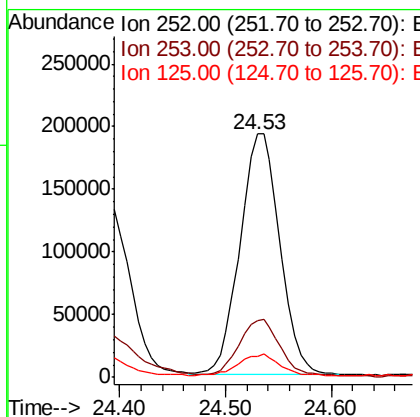
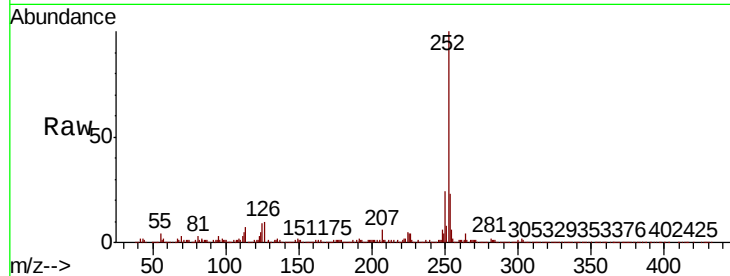
Acq: 21 Aug 2020 9:21

Instrument :  
BNA\_G  
ClientSampled :  
BFMG9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 500731 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 17.8  | 26.8   |
| 125       | 8.7   | 7.1   | 10.7   |

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#28

Indeno(1,2,3-cd)pyrene

Concen: 7.548 ng/ul

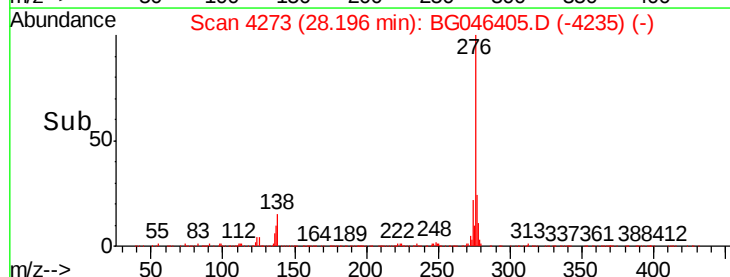
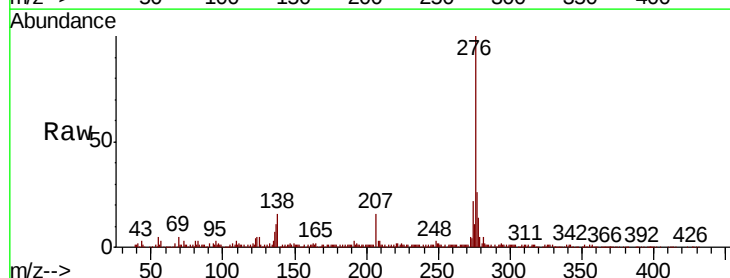
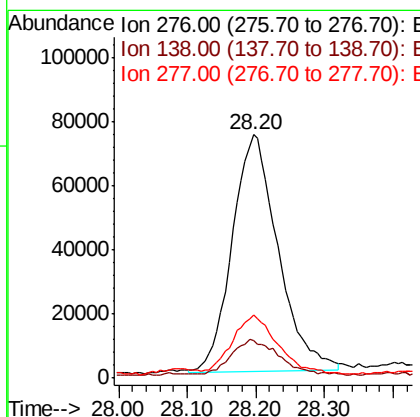
RT: 28.20 min Scan# 4273

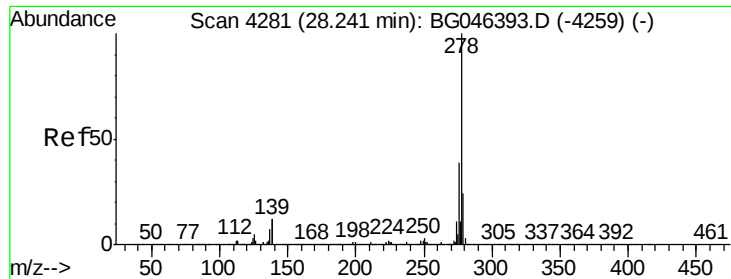
Delta R.T. 0.02 min

Lab File: BG046405.D

Acq: 21 Aug 2020 9:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 343402 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 15.6  | 13.2  | 19.8   |
| 277       | 25.8  | 19.9  | 29.9   |





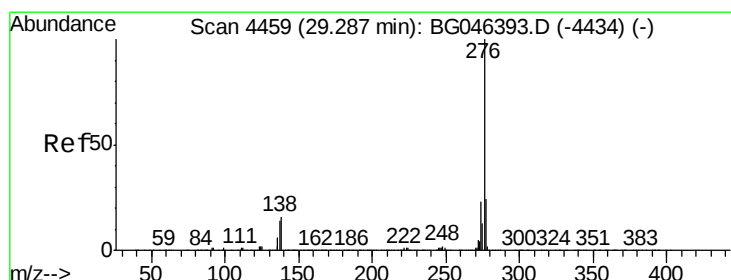
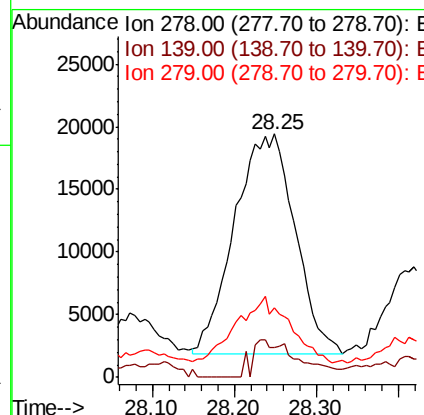
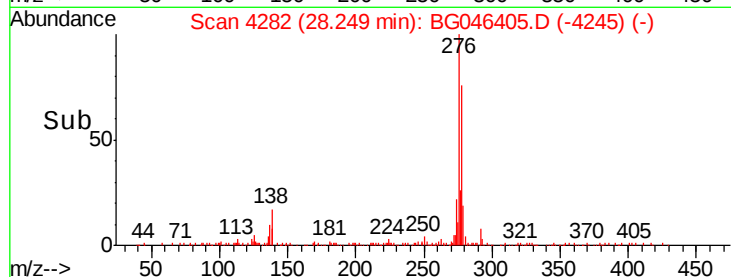
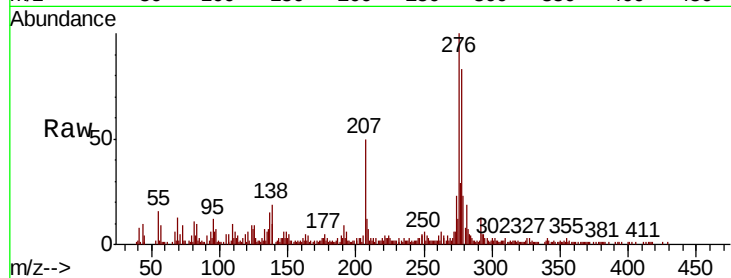
#29  
Dibenzo(a,h)anthracene  
Concen: 2.429 ng/ul  
RT: 28.25 min Scan# 4282  
Delta R.T. 0.02 min  
Lab File: BG046405.D  
Acq: 21 Aug 2020 9:21

Instrument :  
BNA\_G  
ClientSampled :  
BFMG9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 89581 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 12.5  | 9.8   | 14.8  |
| 279       | 28.3  | 19.7  | 29.5  |

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#30  
Benzo(g,h,i)perylene  
Concen: 7.802 ng/ul  
RT: 29.29 min Scan# 4460  
Delta R.T. 0.02 min  
Lab File: BG046405.D  
Acq: 21 Aug 2020 9:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 297035 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.5  | 12.9  | 19.3   |
| 277       | 24.9  | 19.4  | 29.0   |

