

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\  
 Data File : BG046311.D  
 Acq On : 18 Aug 2020 1:17  
 Operator : CG/JU  
 Sample : L3632-14  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFM92

Quant Time: Aug 18 04:19:24 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 18 02:05:56 2020  
 Response via : Initial Calibration

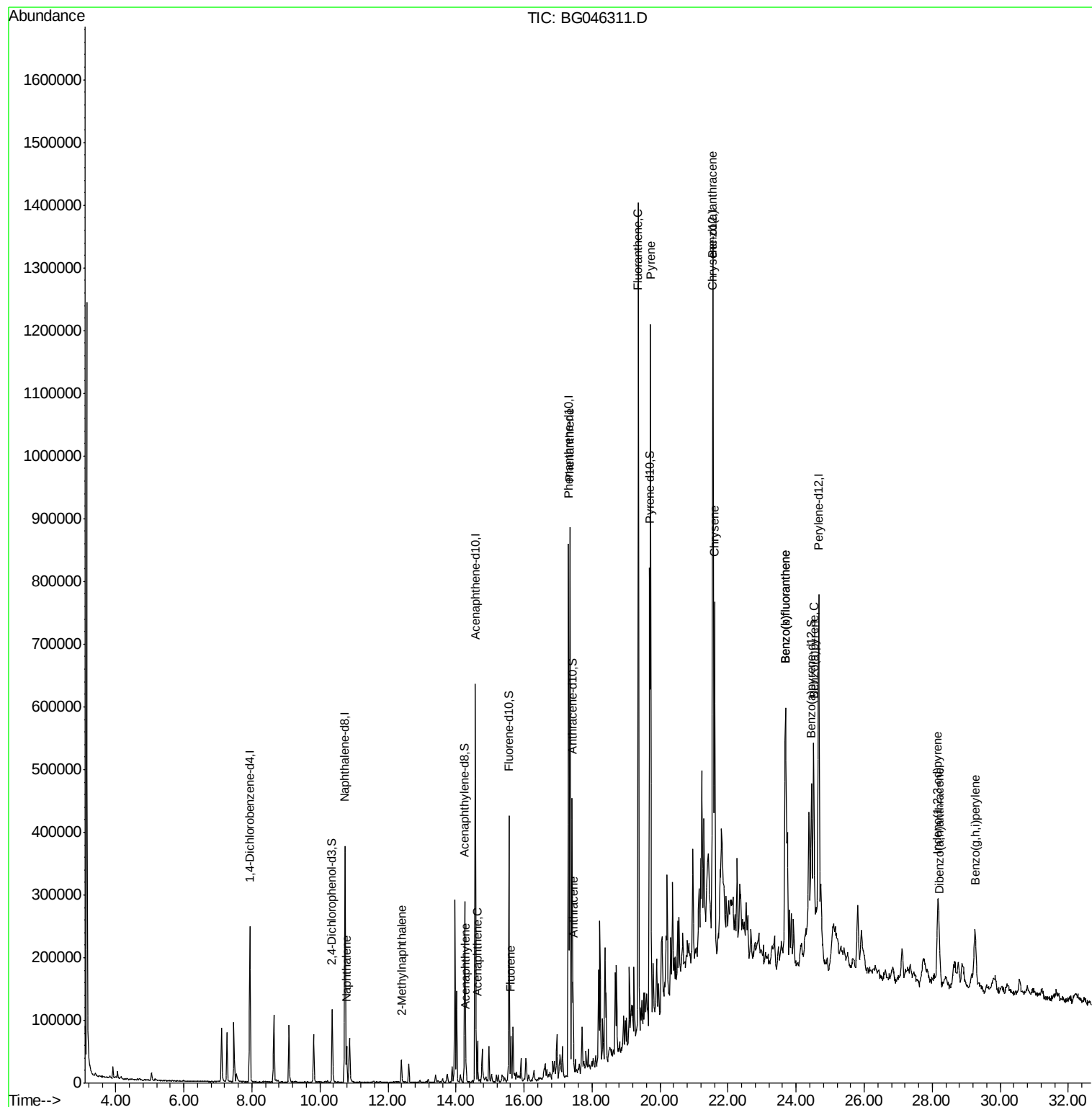
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.94  | 152  | 80064    | 20.00  | ng/ul | -0.01    |
| 2) Naphthalene-d8           | 10.73 | 136  | 338679   | 20.00  | ng/ul | -0.01    |
| 6) Acenaphthene-d10         | 14.57 | 164  | 237558   | 20.00  | ng/ul | -0.01    |
| 12) Phenanthrene-d10        | 17.31 | 188  | 554095   | 20.00  | ng/ul | 0.00     |
| 18) Chrysene-d12            | 21.56 | 240  | 536929   | 20.00  | ng/ul | 0.00     |
| 23) Perylene-d12            | 24.67 | 264  | 586379   | 20.00  | ng/ul | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 3) 2,4-Dichlorophenol-d3    | 10.36 | 165  | 53898    | 9.24   | ng/ul | 0.00     |
| 7) Acenaphthylene-d8        | 14.26 | 160  | 211854   | 9.69   | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.56 | 176  | 178123   | 10.63  | ng/ul | 0.00     |
| 15) Anthracene-d10          | 17.41 | 188  | 260343   | 10.14  | ng/ul | 0.00     |
| 19) Pyrene-d10              | 19.69 | 212  | 279243   | 10.10  | ng/ul | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.45 | 264  | 290023   | 9.06   | ng/ul | 0.00     |
| Target Compounds            |       |      |          | Qvalue |       |          |
| 4) Naphthalene              | 10.79 | 128  | 48438    | 2.750  | ng/ul | 99       |
| 5) 2-Methylnaphthalene      | 12.40 | 142  | 19509    | 1.453  | ng/ul | 98       |
| 8) Acenaphthylene           | 14.29 | 152  | 25878    | 1.164  | ng/ul | 98       |
| 9) Acenaphthene             | 14.63 | 153  | 28073    | 1.769  | ng/ul | 93       |
| 11) Fluorene                | 15.61 | 166  | 31805    | 1.714  | ng/ul | 98       |
| 14) Phenanthrene            | 17.35 | 178  | 562103   | 18.440 | ng/ul | 99       |
| 16) Anthracene              | 17.44 | 178  | 101695   | 3.306  | ng/ul | 97       |
| 17) Fluoranthene            | 19.36 | 202  | 828526   | 24.376 | ng/ul | 100      |
| 20) Pyrene                  | 19.72 | 202  | 721788   | 20.480 | ng/ul | 99       |
| 21) Benzo(a)anthracene      | 21.54 | 228  | 407221   | 11.657 | ng/ul | 97       |
| 22) Chrysene                | 21.60 | 228  | 419370   | 12.418 | ng/ul | 98       |
| 24) Benzo(b)fluoranthene    | 23.68 | 252  | 525255   | 13.546 | ng/ul | 98       |
| 25) Benzo(k)fluoranthene    | 23.68 | 252  | 525255   | 13.655 | ng/ul | 99       |
| 27) Benzo(a)pyrene          | 24.51 | 252  | 338045   | 9.496  | ng/ul | 98       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.17 | 276  | 243202   | 5.456  | ng/ul | 99       |
| 29) Dibenzo(a,h)anthracene  | 28.21 | 278  | 71325    | 1.974  | ng/ul | 93       |
| 30) Benzo(g,h,i)perylene    | 29.26 | 276  | 178228   | 4.778  | ng/ul | 98       |

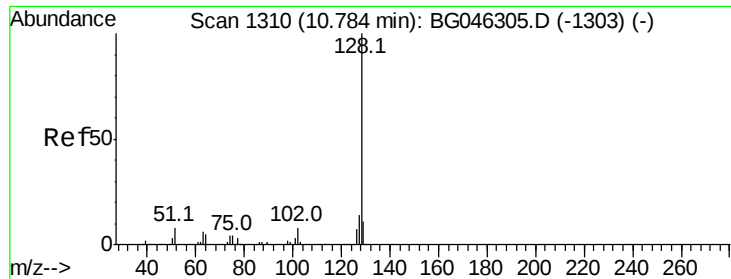
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Time: Aug 18 04:19:24 2020  
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Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 18 02:05:56 2020  
Response via : Initial Calibration





#4

Naphthalene

Concen: 2.750 ng/ul

RT: 10.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

Instrument :

BNA\_G

ClientSampleId :

BFM92

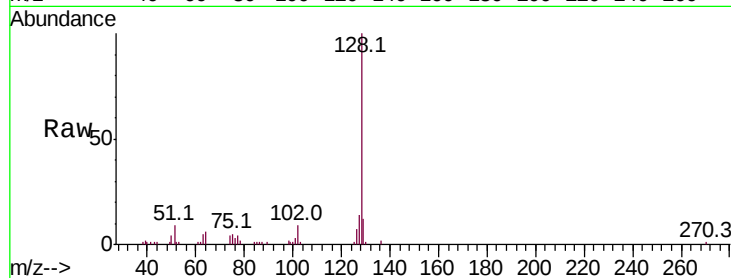
Tot Ion:128 Resp: 48438

Ion Ratio Lower Upper

128 100

129 12.3 9.0 13.6

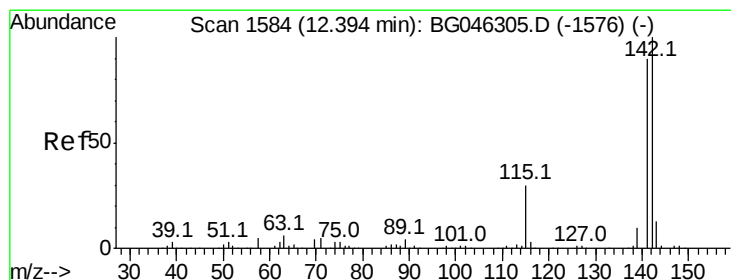
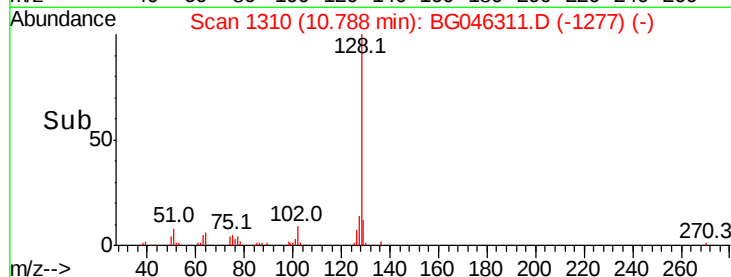
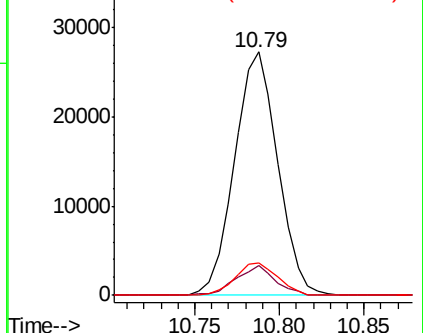
127 13.5 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 1.453 ng/ul

RT: 12.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BG046311.D

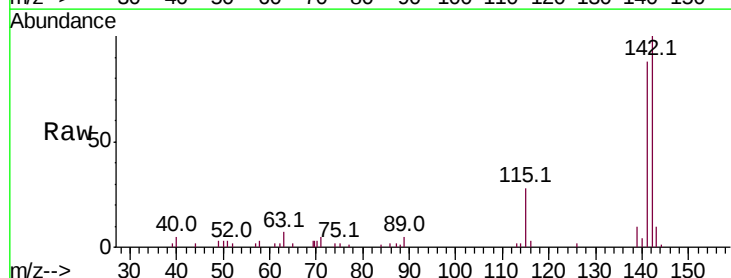
Acq: 18 Aug 2020 1:17

Tgt Ion:142 Resp: 19509

Ion Ratio Lower Upper

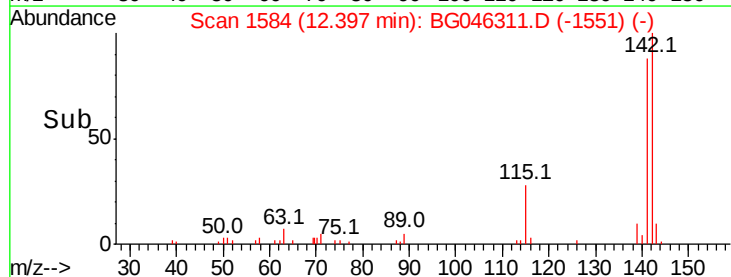
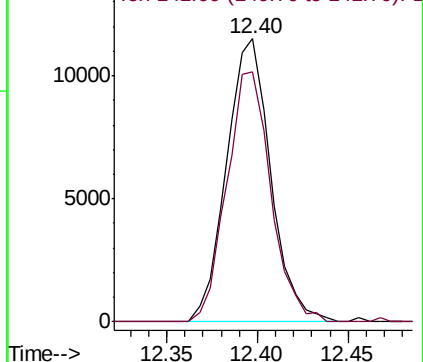
142 100

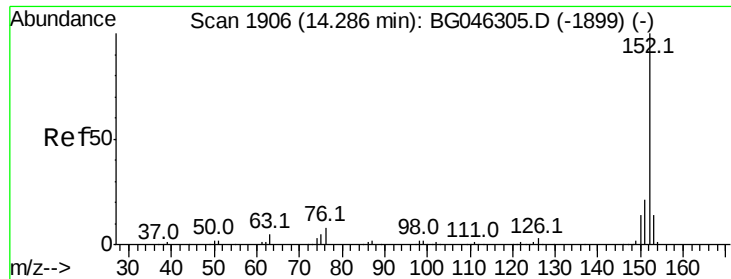
141 88.4 72.5 108.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#8

Acenaphthylene

Concen: 1.164 ng/ul

RT: 14.29 min Scan# 1906

Delta R.T. -0.01 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

Instrument :

BNA\_G

ClientSampleId :

BFM92

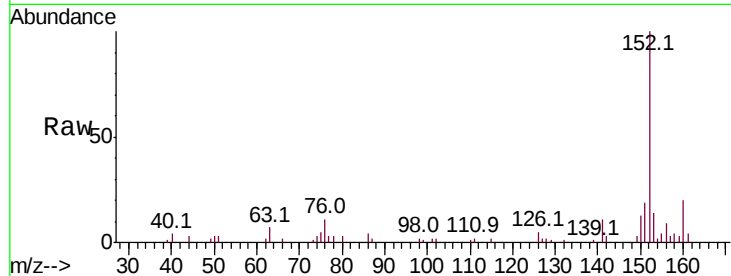
Tot Ion:152 Resp: 25878

Ion Ratio Lower Upper

152 100

151 19.4 16.5 24.7

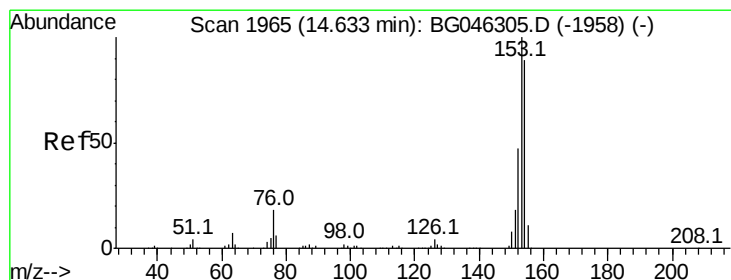
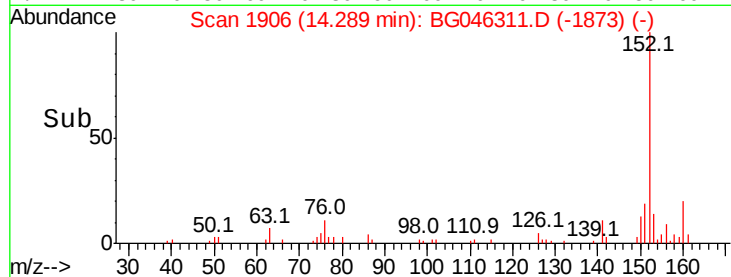
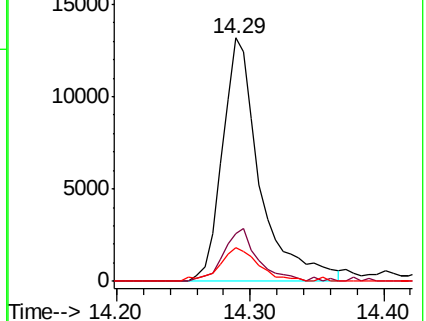
153 14.0 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#9

Acenaphthene

Concen: 1.769 ng/ul

RT: 14.63 min Scan# 1964

Delta R.T. -0.01 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

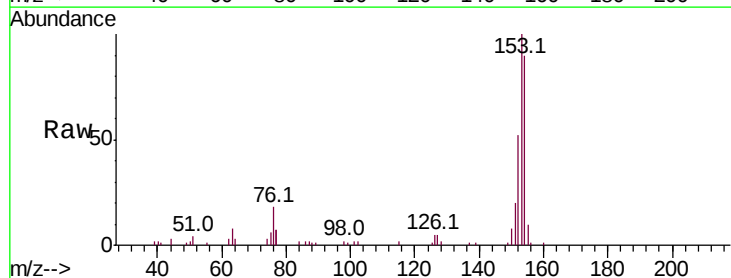
Tgt Ion:153 Resp: 28073

Ion Ratio Lower Upper

153 100

152 51.8 37.2 55.8

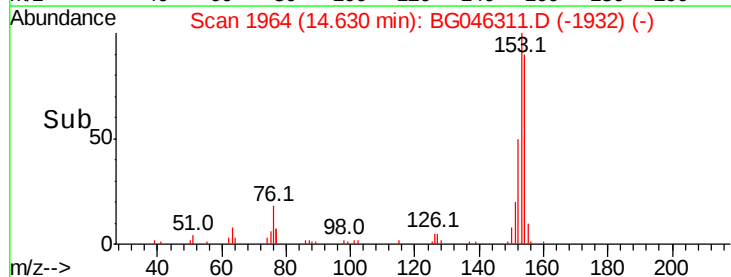
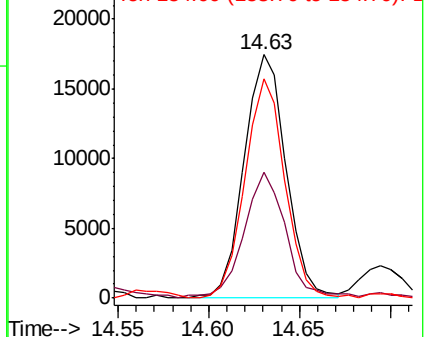
154 90.0 67.8 101.6

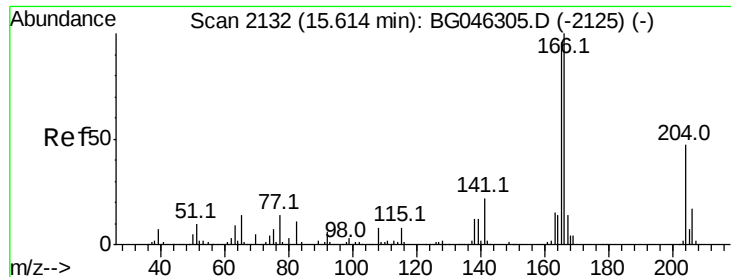


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

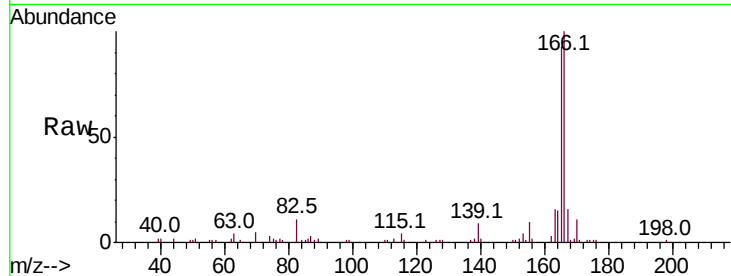




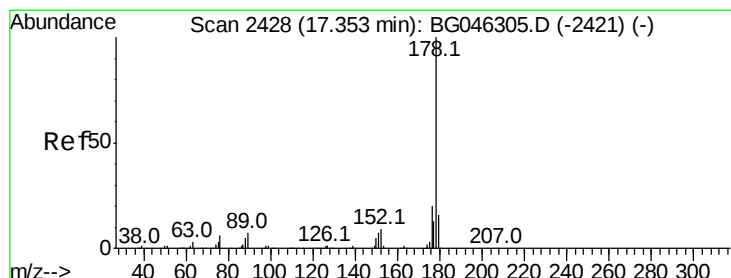
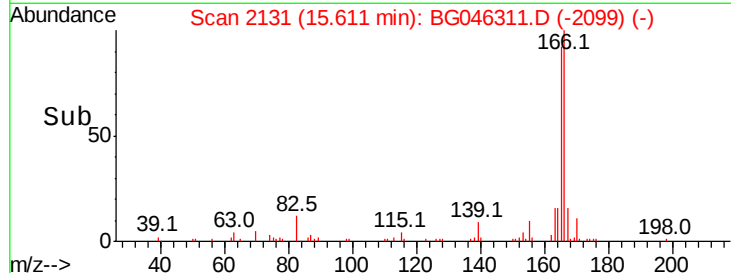
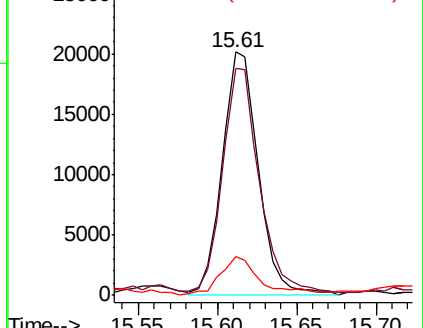
#11  
 Fluorene  
 Concen: 1.714 ng/ul  
 RT: 15.61 min Scan# 2131  
 Delta R.T. -0.01 min  
 Lab File: BG046311.D  
 Acq: 18 Aug 2020 1:17

Instrument :  
 BNA\_G  
 ClientSampled :  
 BFM92

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 93.1  | 75.9  | 113.9 |
| 167     | 15.9  | 10.7  | 16.1  |

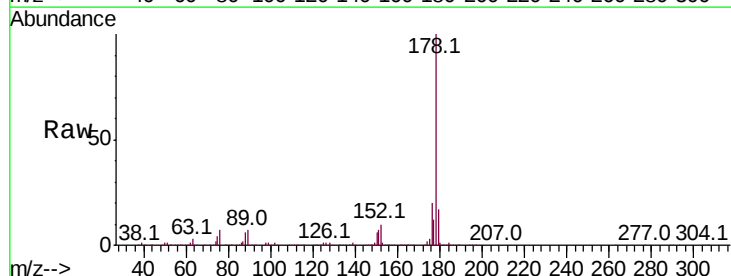


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

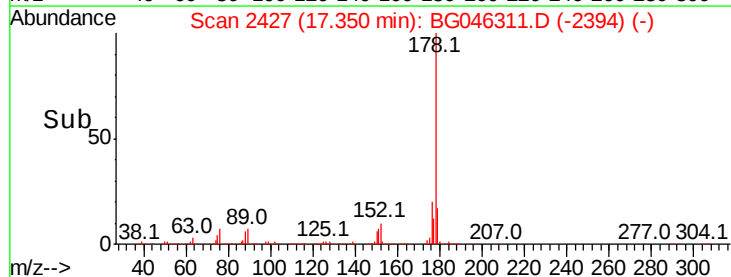
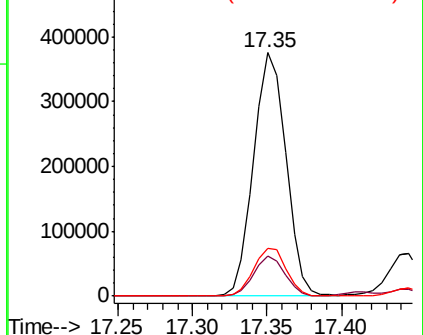


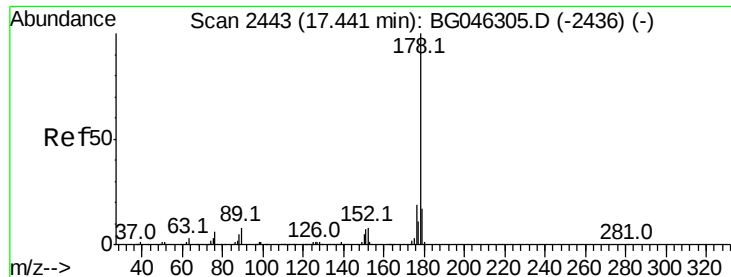
#14  
 Phenanthrene  
 Concen: 18.440 ng/ul  
 RT: 17.35 min Scan# 2427  
 Delta R.T. -0.01 min  
 Lab File: BG046311.D  
 Acq: 18 Aug 2020 1:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.6  | 12.8  | 19.2  |
| 176     | 19.6  | 15.8  | 23.8  |



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E

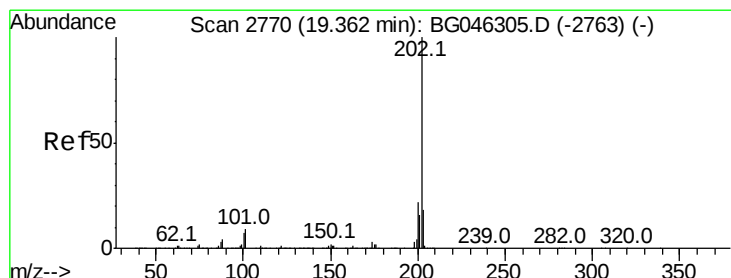
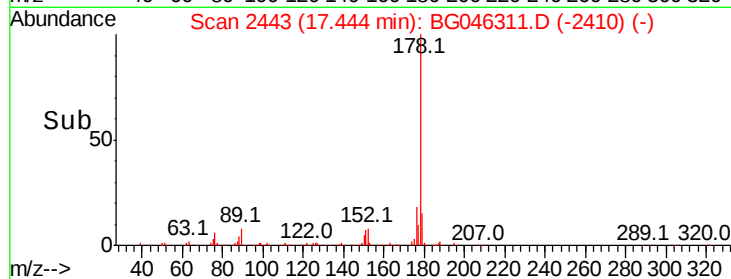
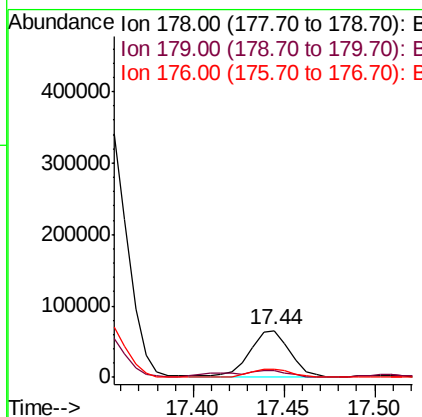
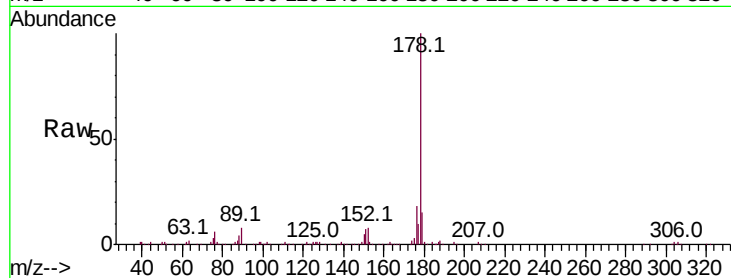




#16  
 Anthracene  
 Concen: 3.306 ng/ul  
 RT: 17.44 min Scan# 2443  
 Delta R.T. -0.01 min  
 Lab File: BG046311.D  
 Acq: 18 Aug 2020 1:17

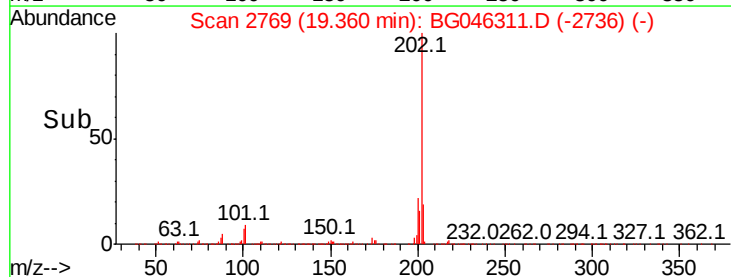
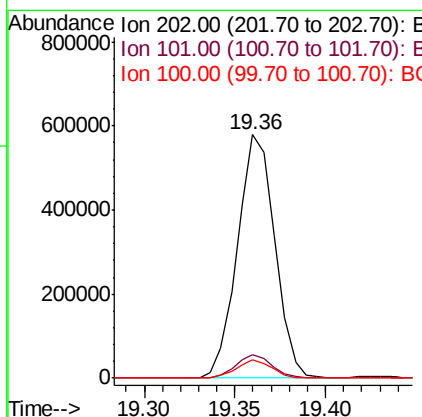
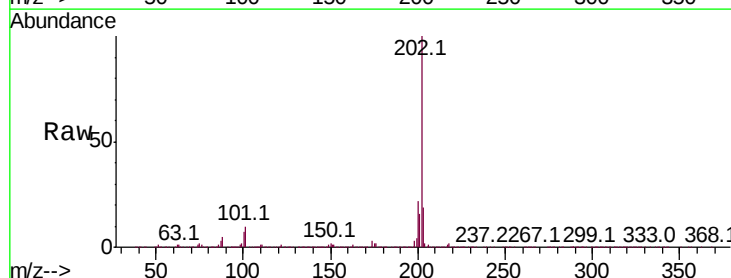
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 BNA\_G  
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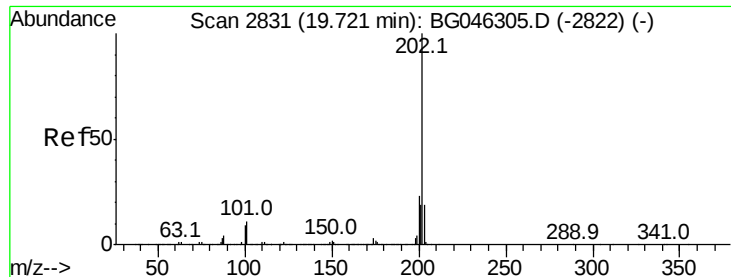
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.0  | 13.2  | 19.8  |
| 176     | 18.0  | 15.2  | 22.8  |



#17  
 Fluoranthene  
 Concen: 24.376 ng/ul  
 RT: 19.36 min Scan# 2769  
 Delta R.T. -0.01 min  
 Lab File: BG046311.D  
 Acq: 18 Aug 2020 1:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.6   | 7.8   | 11.6  |
| 100     | 7.3   | 5.9   | 8.9   |

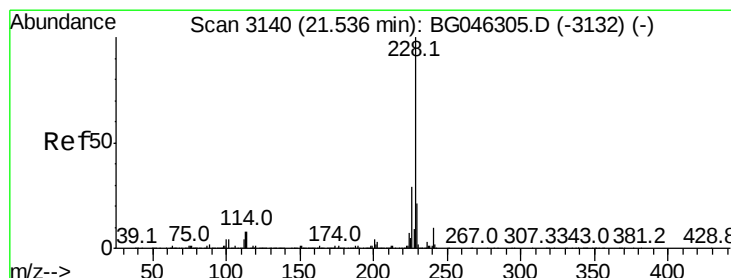
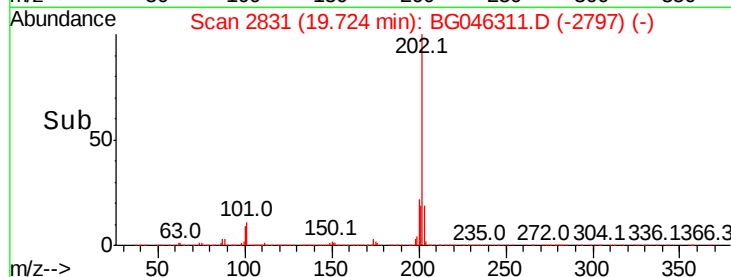
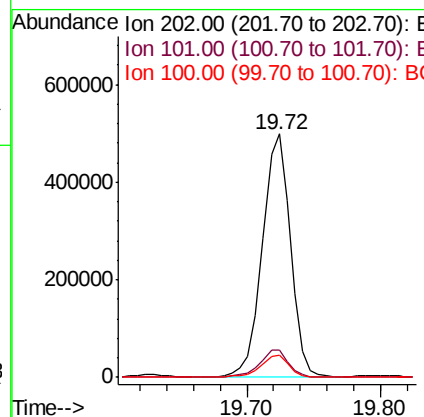
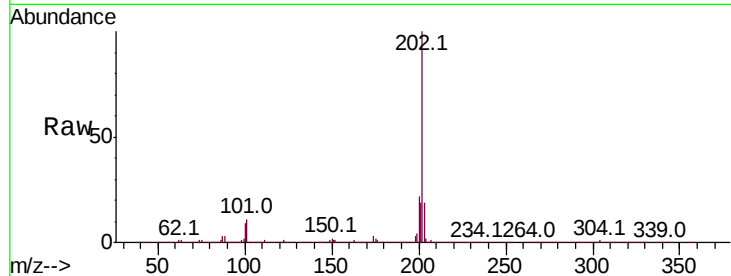




#20  
Pvrene  
Concen: 20.480 ng/ul  
RT: 19.72 min Scan# 2831  
Delta R.T. 0.00 min  
Lab File: BG046311.D  
Acq: 18 Aug 2020 1:17

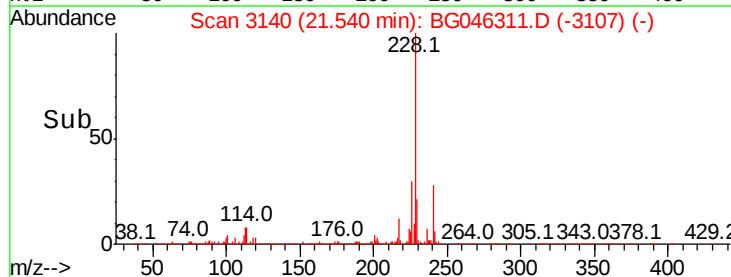
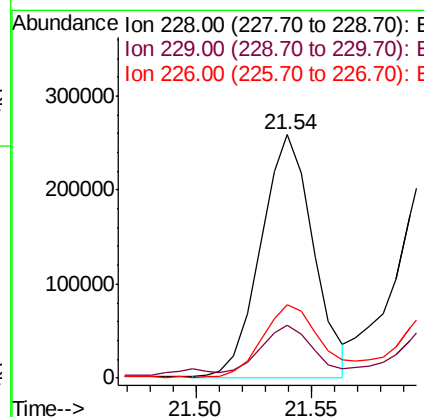
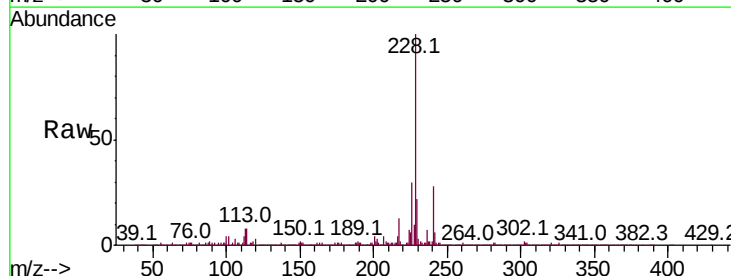
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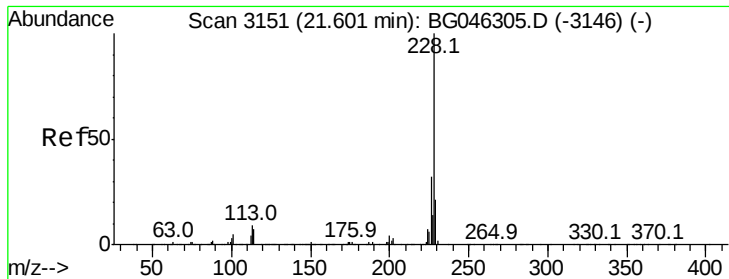
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.0  | 8.9   | 13.3  |
| 100     | 9.0   | 7.9   | 11.9  |



#21  
Benzo(a)anthracene  
Concen: 11.657 ng/ul  
RT: 21.54 min Scan# 3140  
Delta R.T. -0.01 min  
Lab File: BG046311.D  
Acq: 18 Aug 2020 1:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.5  | 16.6  | 25.0  |
| 226     | 30.0  | 22.6  | 33.8  |





#22

Chrysene

Concen: 12.418 ng/ul

RT: 21.60 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

Instrument :

BNA\_G

ClientSampleId :

BFM92

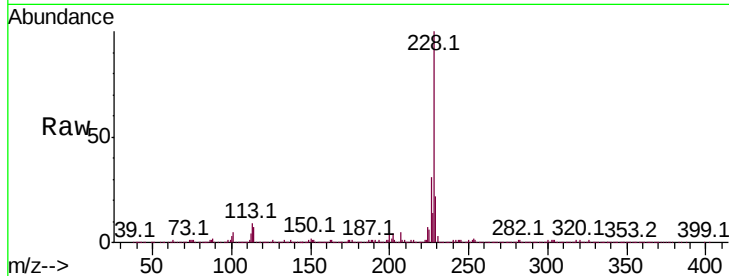
Tot Ion:228 Resp: 419370

Ion Ratio Lower Upper

228 100

226 31.2 25.5 38.3

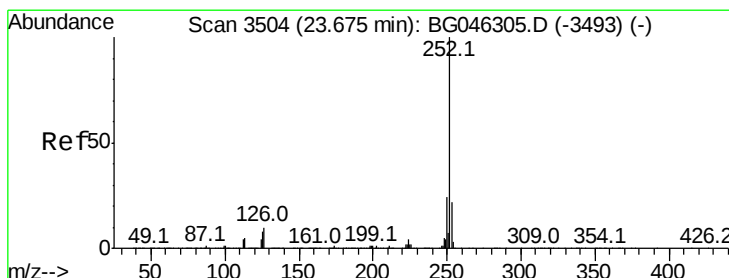
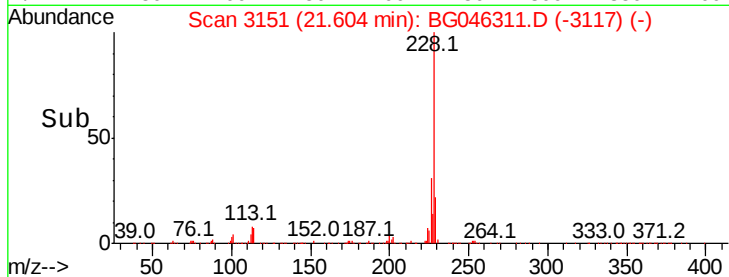
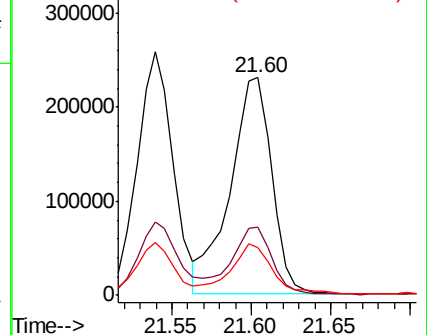
229 22.2 17.0 25.4



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: 13.546 ng/ul

RT: 23.68 min Scan# 3505

Delta R.T. 0.00 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

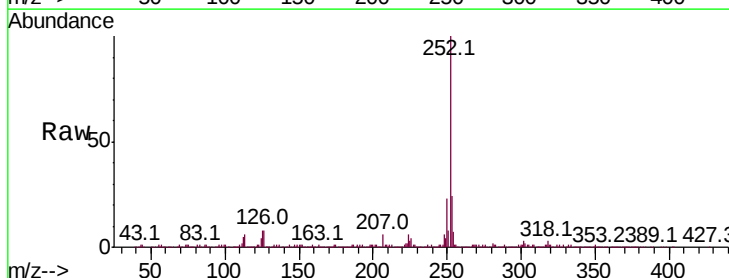
Tgt Ion:252 Resp: 525255

Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.6

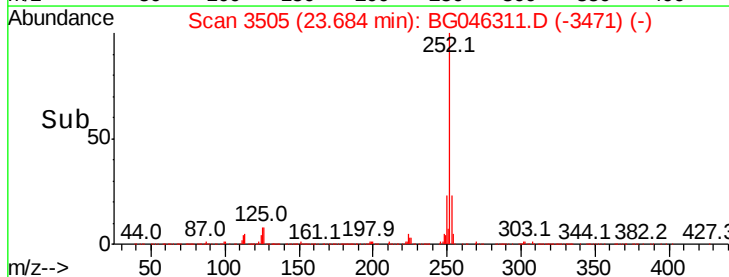
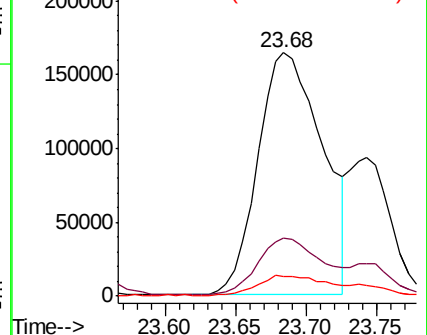
125 8.0 6.4 9.6

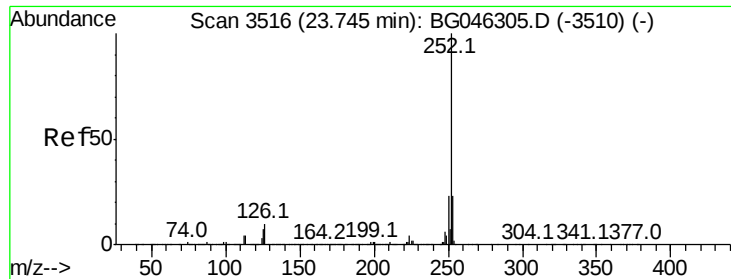


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

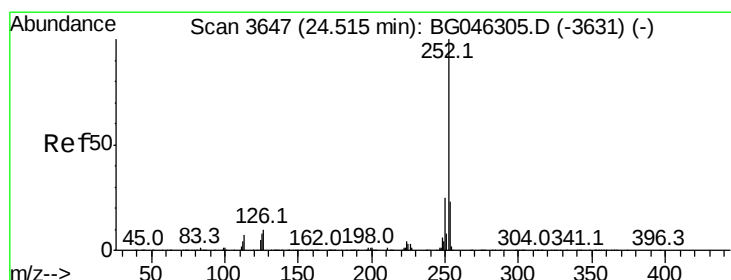
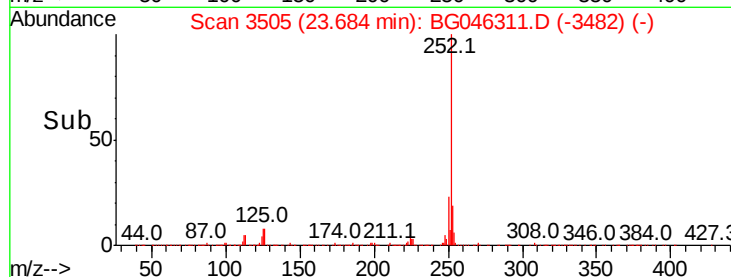
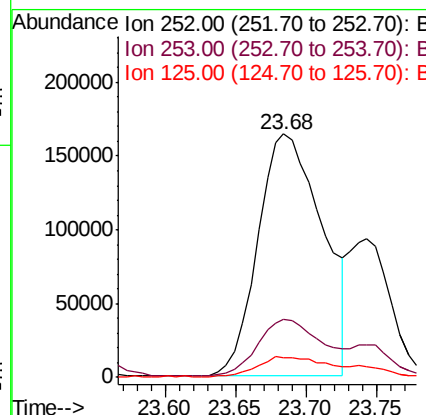
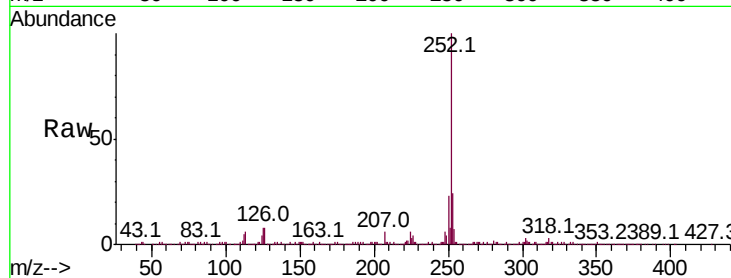




#25  
Benzo(k)fluoranthene  
Concen: 13.655 ng/ul  
RT: 23.68 min Scan# 3505  
Delta R.T. -0.06 min  
Lab File: BG046311.D  
Acq: 18 Aug 2020 1:17

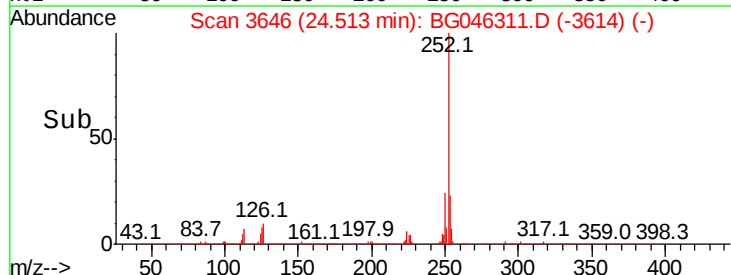
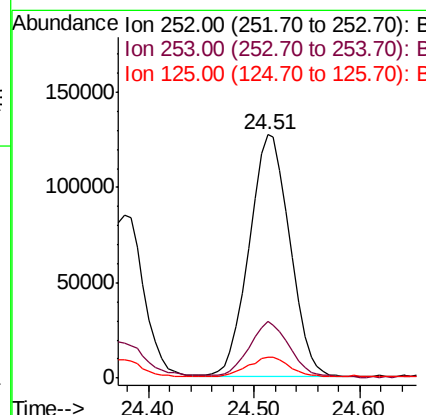
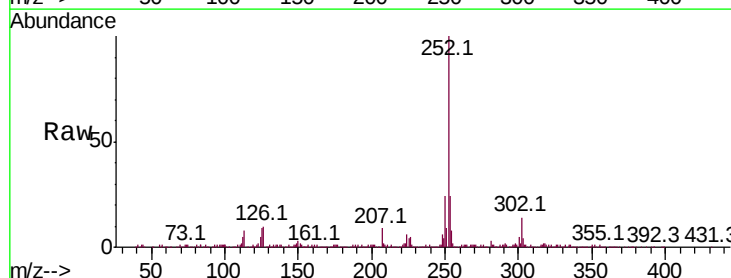
Instrument :  
BNA\_G  
ClientSampleId :  
BFM92

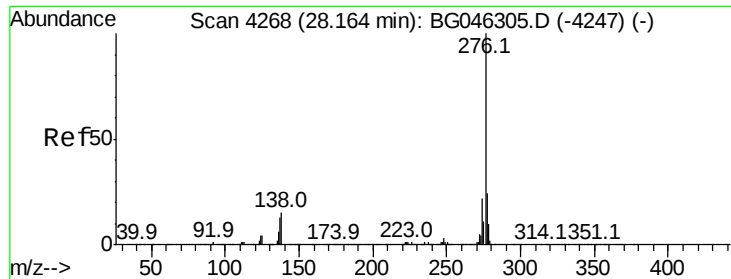
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.5  | 27.7  |
| 125     | 8.0   | 6.2   | 9.2   |



#27  
Benzo(a)pyrene  
Concen: 9.496 ng/ul  
RT: 24.51 min Scan# 3646  
Delta R.T. -0.01 min  
Lab File: BG046311.D  
Acq: 18 Aug 2020 1:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.8  | 26.8  |
| 125     | 8.6   | 7.1   | 10.7  |





#28

Indeno(1,2,3-cd)pyrene

Concen: 5.456 ng/ul

RT: 28.17 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

Instrument :

BNA\_G

ClientSampled :

BFM92

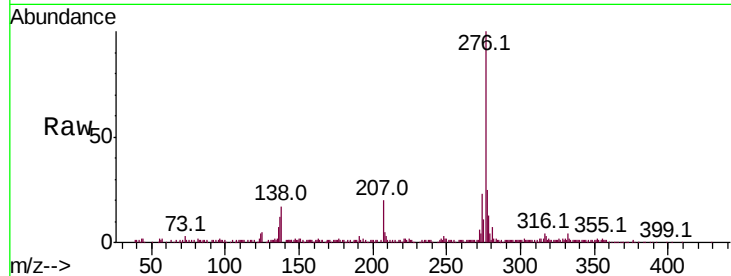
Tot Ion:276 Resp: 243202

Ion Ratio Lower Upper

276 100

138 16.9 13.2 19.8

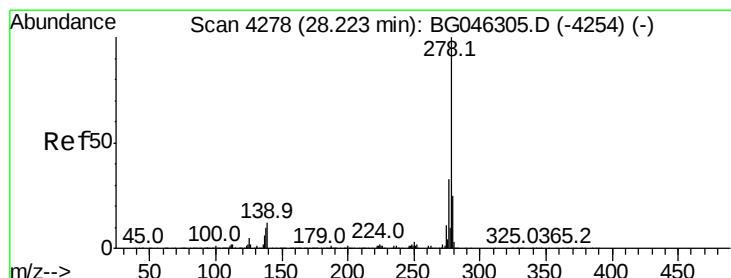
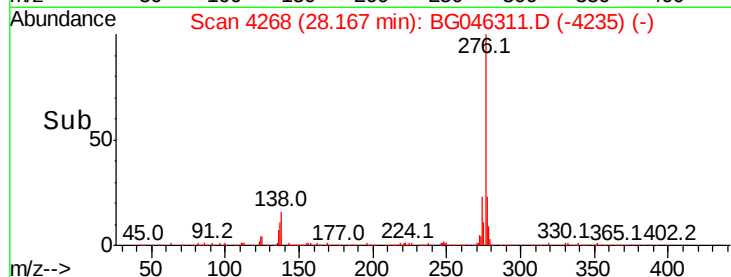
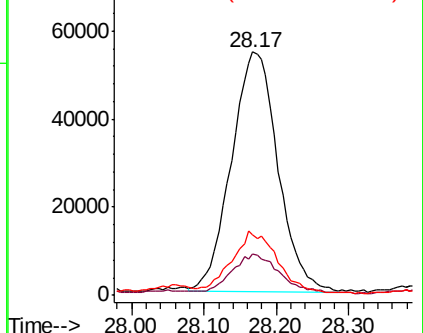
277 24.8 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#29

Dibenzo(a,h)anthracene

Concen: 1.974 ng/ul

RT: 28.21 min Scan# 4276

Delta R.T. -0.02 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

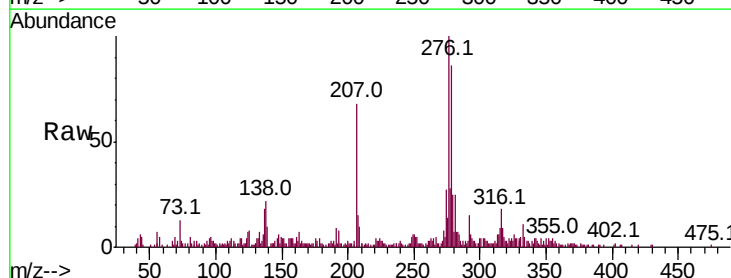
Tgt Ion:278 Resp: 71325

Ion Ratio Lower Upper

278 100

139 11.3 9.8 14.8

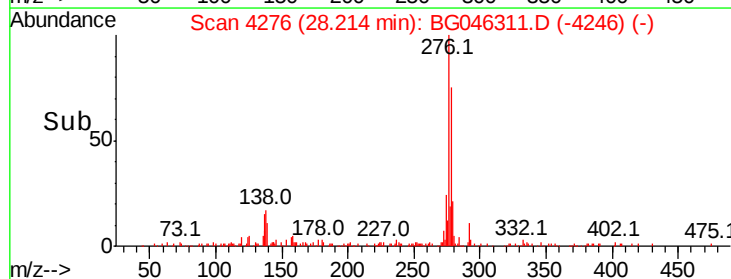
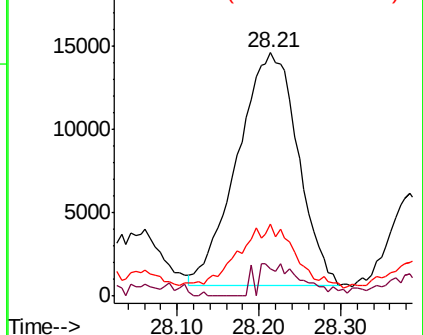
279 29.4 19.7 29.5

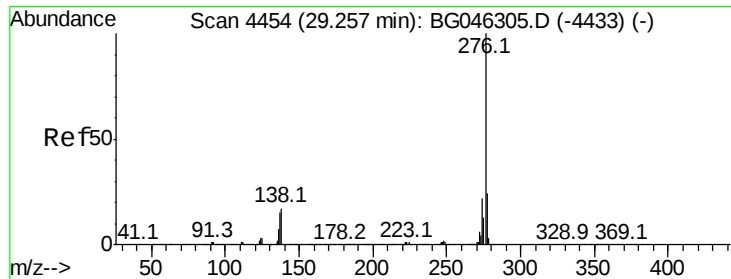


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(a,h,i)perylene

Concen: 4.778 ng/ul

RT: 29.26 min Scan# 4454

Delta R.T. -0.01 min

Lab File: BG046311.D

Acq: 18 Aug 2020 1:17

Instrument :

BNA\_G

ClientSampleId :

BFM92

Tot Ion:276 Resp: 178228

Ion Ratio Lower Upper

276 100

138 16.1 12.9 19.3

277 22.9 19.4 29.0

