

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\  
 Data File : BG046390.D  
 Acq On : 20 Aug 2020 22:38  
 Operator : CG/JU  
 Sample : L3634-02  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMFO

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 8/21/2020 12:47:54 PM

Quant Time: Aug 21 01:41:03 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 21 00:37:00 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|---------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.94  | 152  | 83785    | 20.00   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.74 | 136  | 348091   | 20.00   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.57 | 164  | 234503   | 20.00   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.31 | 188  | 513124   | 20.00   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.57 | 240  | 500873   | 20.00   | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.68 | 264  | 552652   | 20.00   | ng/ul  | 0.02     |
| System Monitoring Compounds |       |      |          |         |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.36 | 165  | 179652   | 29.97   | ng/ul  | 0.00     |
| 7) Acenaphthylene-d8        | 14.26 | 160  | 651853   | 30.20   | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.56 | 176  | 495725   | 29.98   | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.41 | 188  | 708851   | 29.80   | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.70 | 212  | 794847   | 30.83   | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.48 | 264  | 919246   | 30.48   | ng/ul  | 0.03     |
| Target Compounds            |       |      |          |         |        |          |
|                             |       |      |          |         | Qvalue |          |
| 4) Naphthalene              | 10.79 | 128  | 144085   | 7.958   | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.40 | 142  | 79091    | 5.730   | ng/ul  | 94       |
| 8) Acenaphthylene           | 14.29 | 152  | 67917    | 3.095   | ng/ul  | 96       |
| 9) Acenaphthene             | 14.63 | 153  | 234221   | 14.949  | ng/ul  | 98       |
| 11) Fluorene                | 15.62 | 166  | 278284   | 15.190  | ng/ul  | 96       |
| 14) Phenanthrene            | 17.36 | 178  | 2861849m | 101.380 | ng/ul  |          |
| 16) Anthracene              | 17.45 | 178  | 763392   | 26.802  | ng/ul  | 97       |
| 17) Fluoranthene            | 19.38 | 202  | 3089269  | 98.145  | ng/ul# | 89       |
| 20) Pyrene                  | 19.73 | 202  | 2811405m | 85.511  | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.55 | 228  | 2027582  | 62.218  | ng/ul# | 90       |
| 22) Chrysene                | 21.61 | 228  | 1877125  | 59.585  | ng/ul# | 91       |
| 24) Benzo(b)fluoranthene    | 23.71 | 252  | 2500715  | 68.427  | ng/ul  | 94       |
| 25) Benzo(k)fluoranthene    | 23.76 | 252  | 957457m  | 26.411  | ng/ul  |          |
| 27) Benzo(a)pyrene          | 24.55 | 252  | 1820422  | 54.257  | ng/ul  | 94       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.22 | 276  | 1098376  | 26.145  | ng/ul  | 99       |
| 29) Dibenzo(a,h)anthracene  | 28.26 | 278  | 336809m  | 9.888   | ng/ul  |          |
| 30) Benzo(g,h,i)perylene    | 29.31 | 276  | 625790   | 17.799  | ng/ul  | 99       |

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

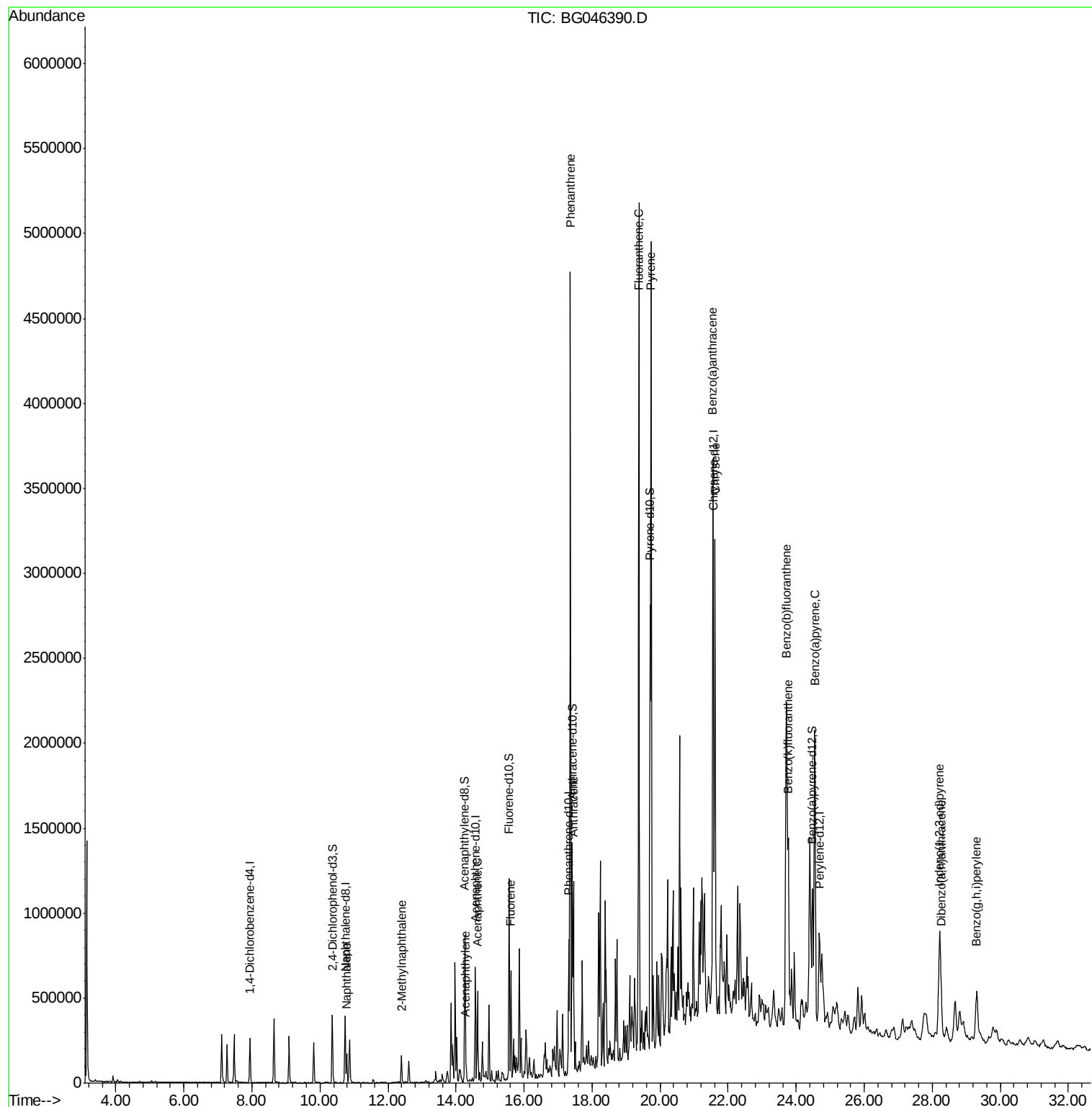
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\  
Data File : BG046390.D  
Acq On : 20 Aug 2020 22:38  
Operator : CG/JU  
Sample : L3634-02  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

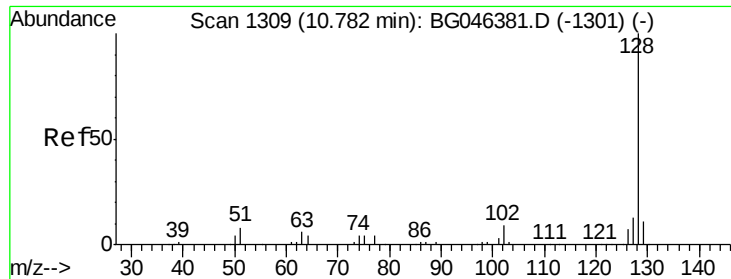
Instrument :  
BNA\_G  
ClientSampleId :  
BFMF0

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Quant Time: Aug 21 01:41:03 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Aug 21 00:37:00 2020  
Response via : Initial Calibration





#4

Naphthalene

Concen: 7.958 ng/ul

RT: 10.79 min Scan# 1310

Delta R.T. 0.00 min

Lab File: BG046390.D

Acq: 20 Aug 2020 22:38

Instrument :

BNA\_G

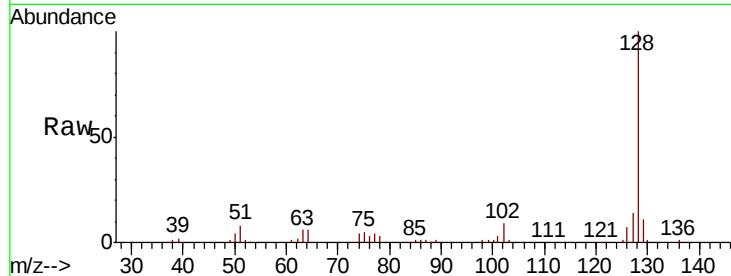
ClientSampled :

BFMF0

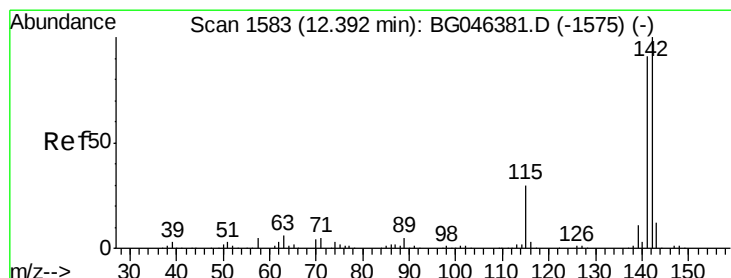
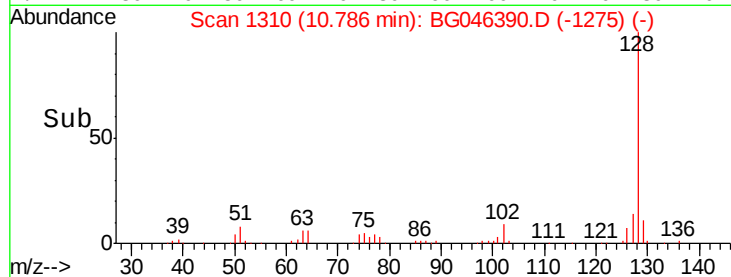
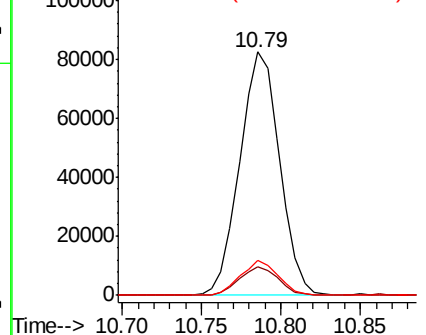
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 144085 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 11.5  | 9.0   | 13.6   |
| 127       | 14.1  | 10.9  | 16.3   |

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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: 5.730 ng/ul

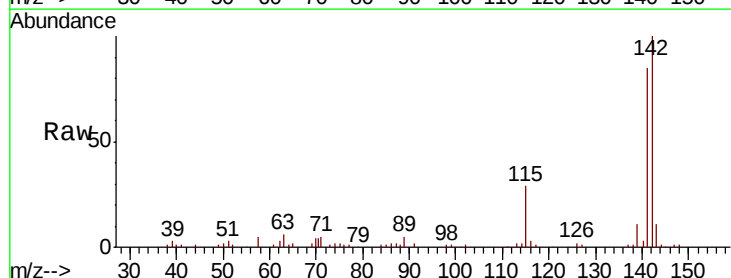
RT: 12.40 min Scan# 1584

Delta R.T. 0.00 min

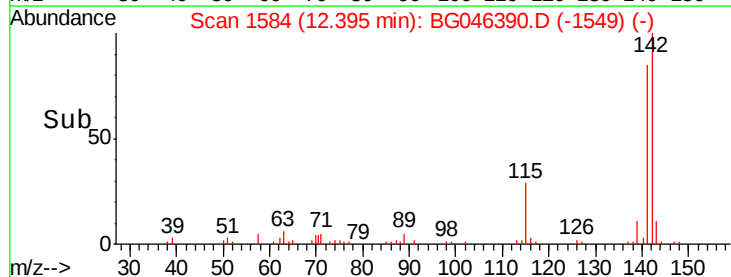
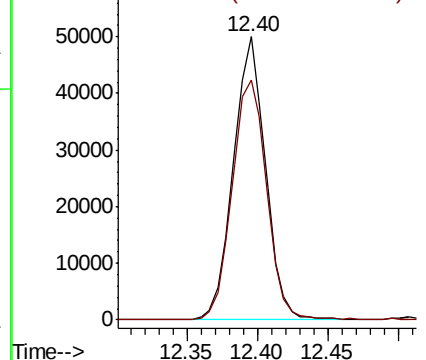
Lab File: BG046390.D

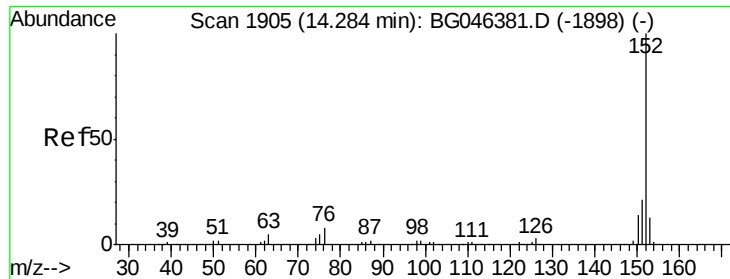
Acq: 20 Aug 2020 22:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 79091 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 84.8  | 72.5  | 108.7 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





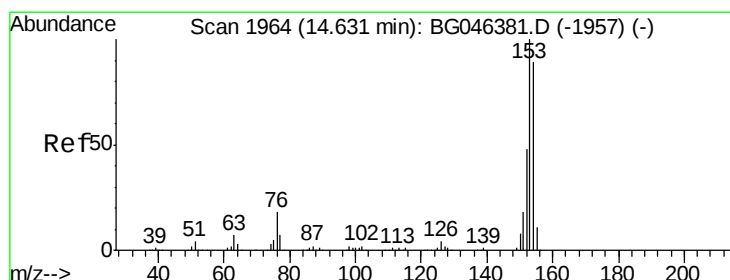
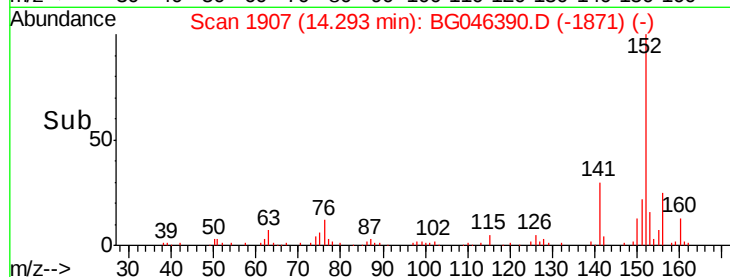
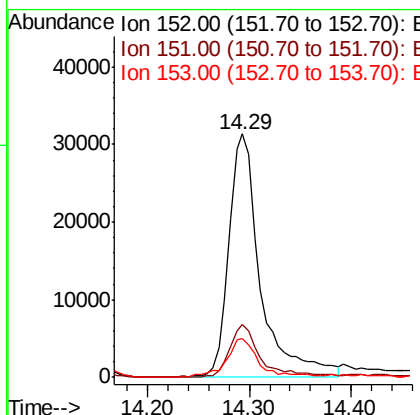
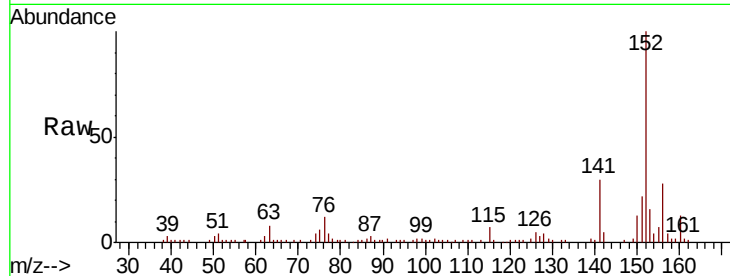
#8  
Acenaphthylene  
Concen: 3.095 ng/ul  
RT: 14.29 min Scan# 1907  
Delta R.T. 0.01 min  
Lab File: BG046390.D  
Acq: 20 Aug 2020 22:38

Instrument :  
BNA\_G  
ClientSampleId :  
BFMF0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 67917 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 21.9  | 16.5  | 24.7  |
| 153       | 16.1  | 11.0  | 16.6  |

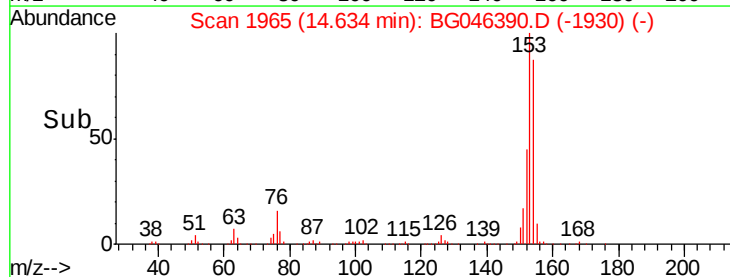
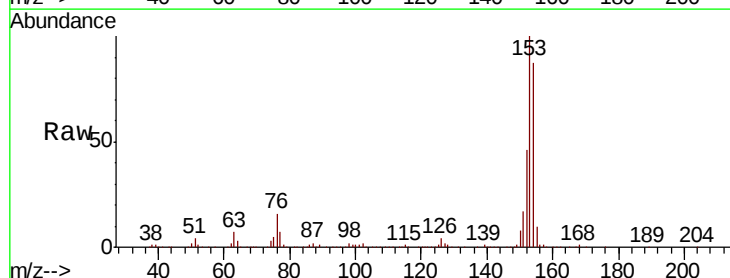
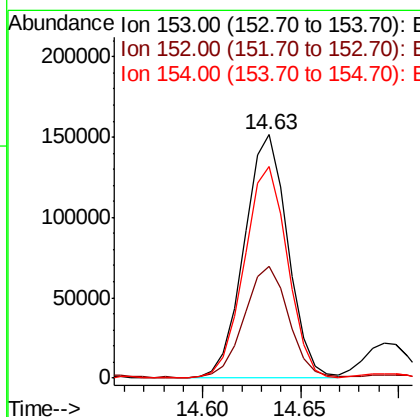
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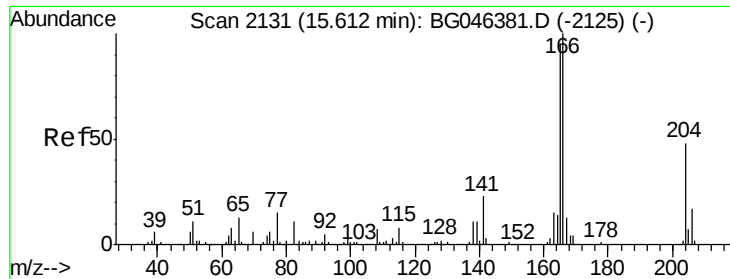
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#9  
Acenaphthene  
Concen: 14.949 ng/ul  
RT: 14.63 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: BG046390.D  
Acq: 20 Aug 2020 22:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 234221 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 45.8  | 37.2  | 55.8   |
| 154       | 86.9  | 67.8  | 101.6  |





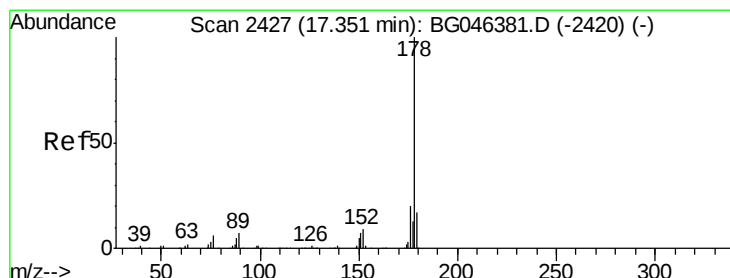
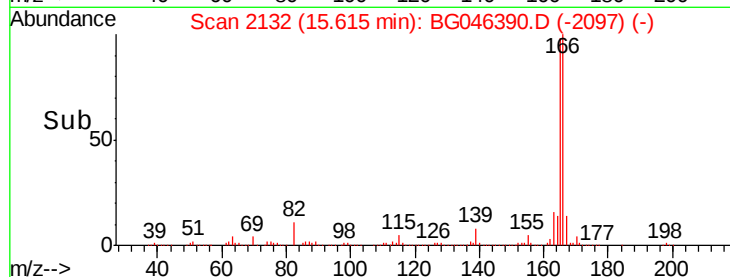
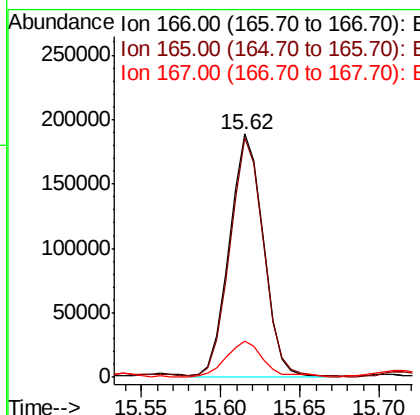
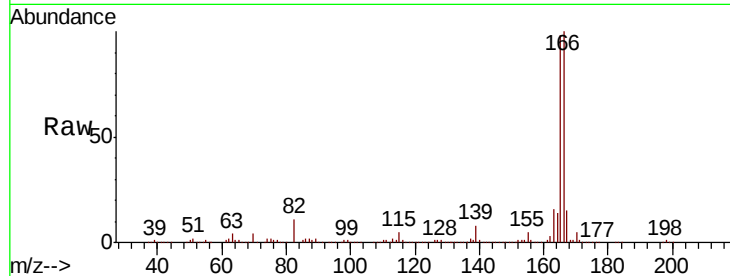
#11  
**Fluorene**  
 Concen: 15.190 ng/ul  
 RT: 15.62 min Scan# 2132  
 Delta R.T. 0.00 min  
 Lab File: BG046390.D  
 Acq: 20 Aug 2020 22:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMFO

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.4  | 75.9  | 113.9 |
| 167     | 14.9  | 10.7  | 16.1  |

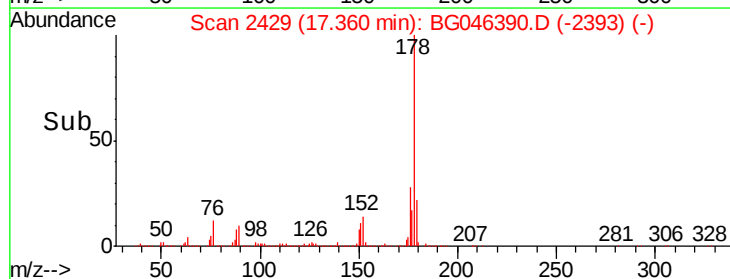
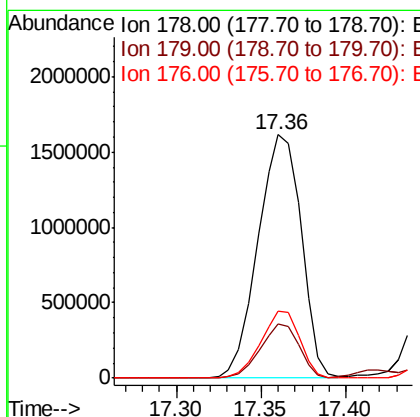
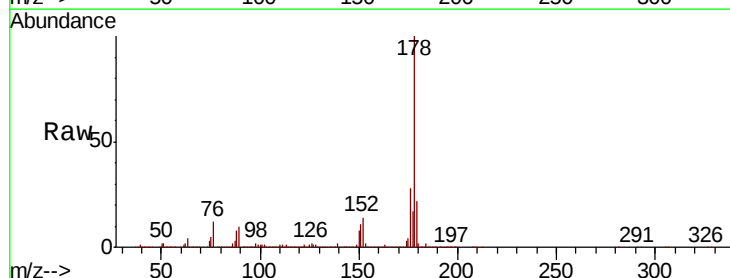
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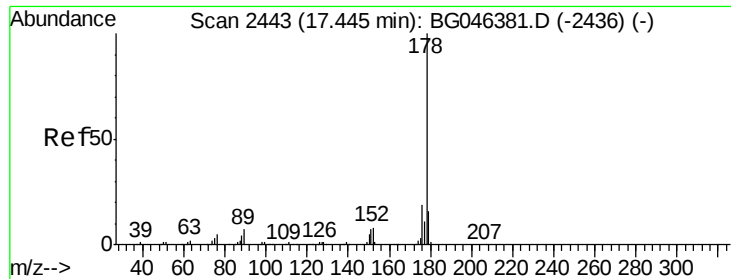
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#14  
**Phenanthrene**  
 Concen: 101.380 ng/ul m  
 RT: 17.36 min Scan# 2429  
 Delta R.T. 0.01 min  
 Lab File: BG046390.D  
 Acq: 20 Aug 2020 22:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 22.4  | 12.8  | 19.2# |
| 176     | 27.6  | 15.8  | 23.8# |





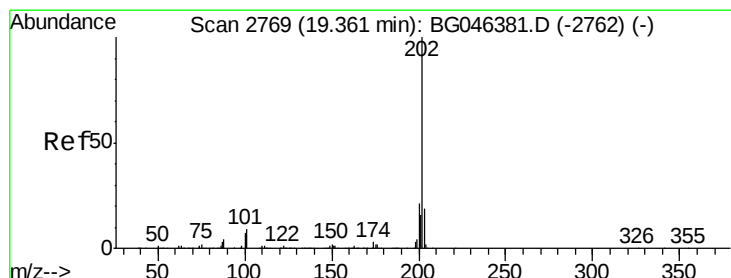
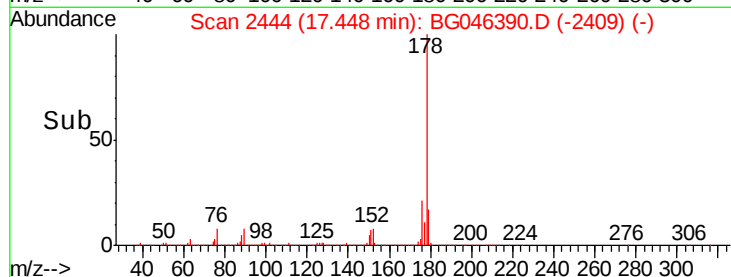
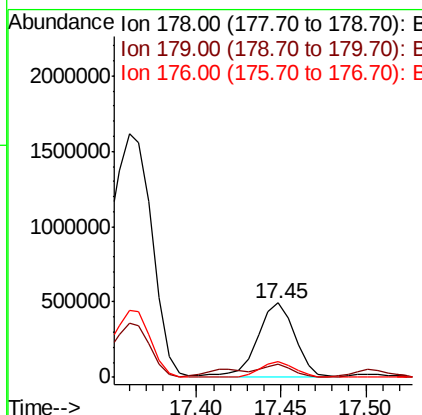
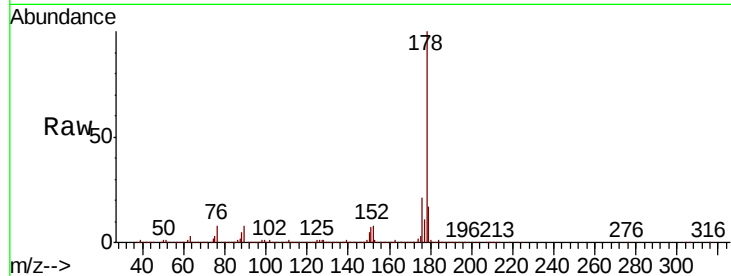
#16  
 Anthracene  
 Concen: 26.802 ng/ul  
 RT: 17.45 min Scan# 2444  
 Delta R.T. 0.00 min  
 Lab File: BG046390.D  
 Acq: 20 Aug 2020 22:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMFO

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.2  | 13.2  | 19.8  |
| 176     | 20.6  | 15.2  | 22.8  |

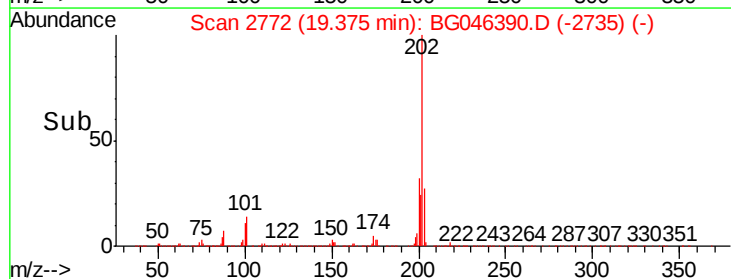
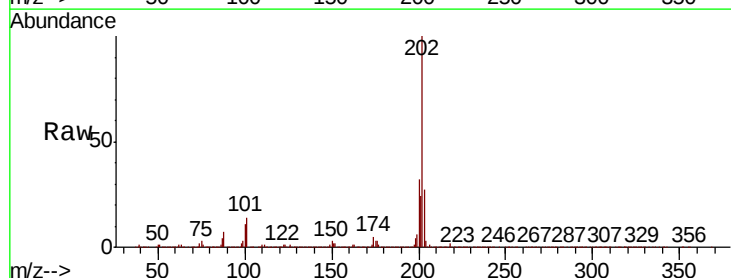
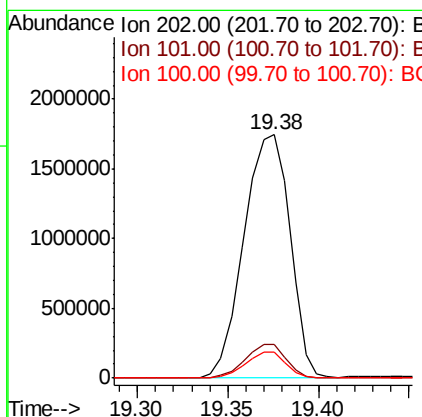
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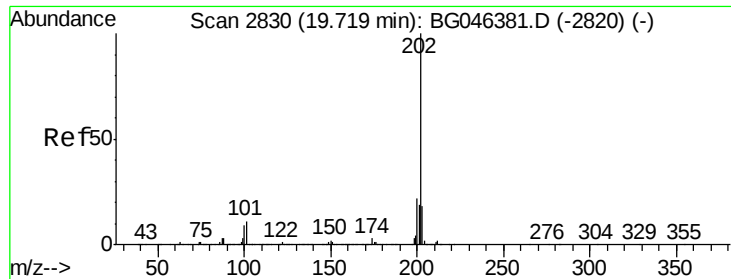
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#17  
 Fluoranthene  
 Concen: 98.145 ng/ul  
 RT: 19.38 min Scan# 2772  
 Delta R.T. 0.01 min  
 Lab File: BG046390.D  
 Acq: 20 Aug 2020 22:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.8  | 7.8   | 11.6# |
| 100     | 10.8  | 5.9   | 8.9#  |





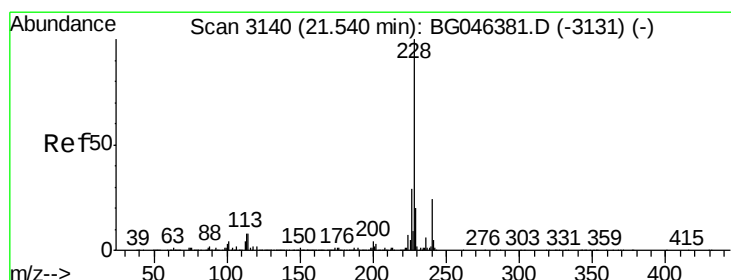
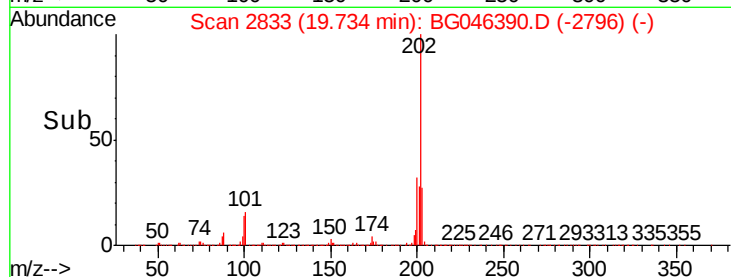
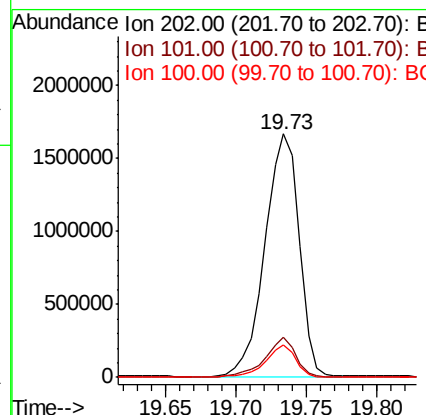
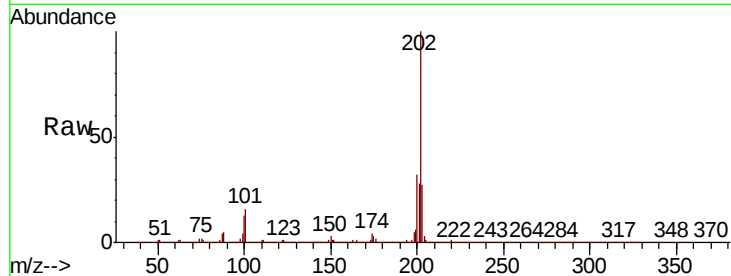
#20  
Pvrene  
Concen: 85.511 ng/ul m  
RT: 19.73 min Scan# 2833  
Delta R.T. 0.01 min  
Lab File: BG046390.D  
Acq: 20 Aug 2020 22:38

Instrument :  
BNA\_G  
ClientSampleId :  
BFMF0

| Tot Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 2811405 |       |       |
| 101     | 16.3  |         | 8.9   | 13.3# |
| 100     | 13.3  |         | 7.9   | 11.9# |

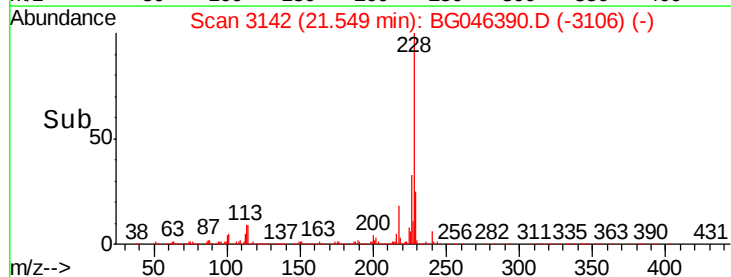
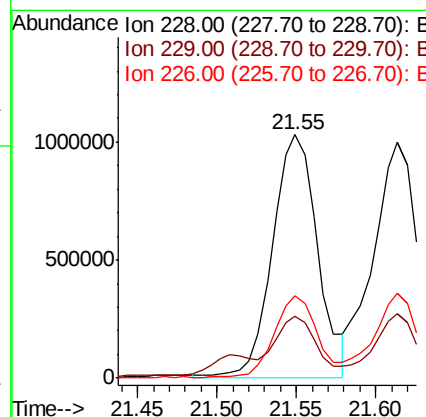
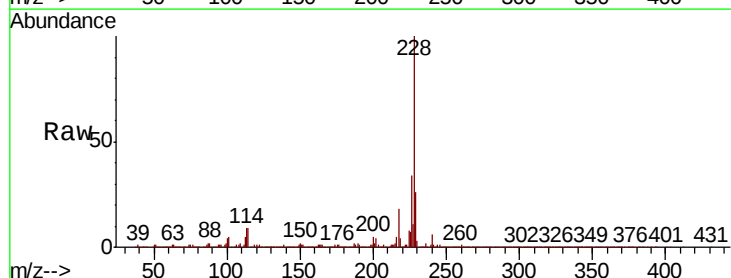
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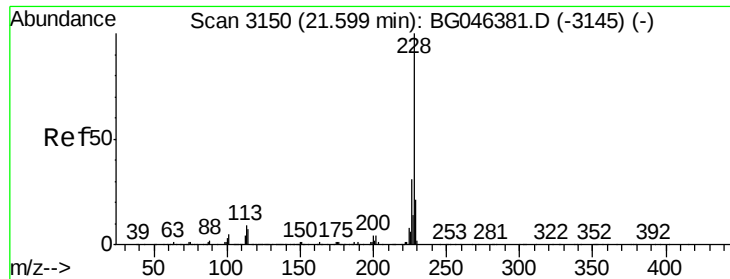
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#21  
Benzo(a)anthracene  
Concen: 62.218 ng/ul  
RT: 21.55 min Scan# 3142  
Delta R.T. 0.01 min  
Lab File: BG046390.D  
Acq: 20 Aug 2020 22:38

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 228     | 100   | 2027582 |       |       |
| 229     | 25.6  |         | 16.6  | 25.0# |
| 226     | 33.7  |         | 22.6  | 33.8  |





#22

Chrysene

Concen: 59.585 ng/ul

RT: 21.61 min Scan# 3153

Delta R.T. 0.01 min

Lab File: BG046390.D

Acq: 20 Aug 2020 22:38

Instrument :

BNA\_G

ClientSampleId :

BFMF0

Tot Ion:228 Resp: 1877125

Ion Ratio Lower Upper

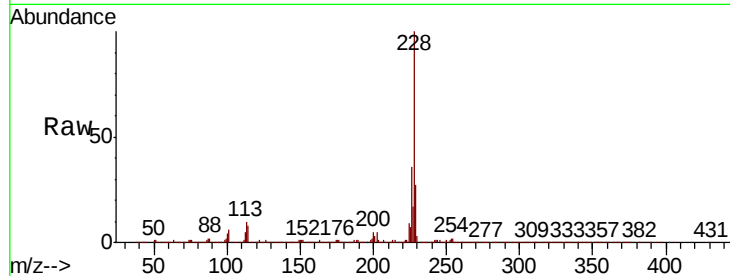
228 100

226 35.7 25.5 38.3

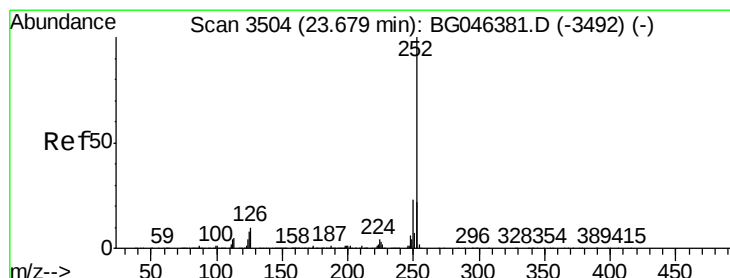
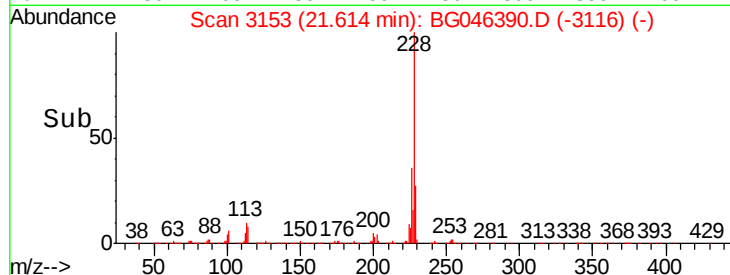
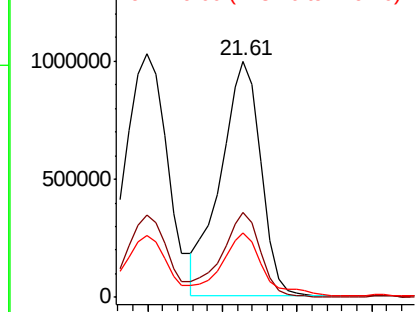
229 27.3 17.0 25.4#

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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



#24

Benzo(b)fluoranthene

Concen: 68.427 ng/ul

RT: 23.71 min Scan# 3510

Delta R.T. 0.03 min

Lab File: BG046390.D

Acq: 20 Aug 2020 22:38

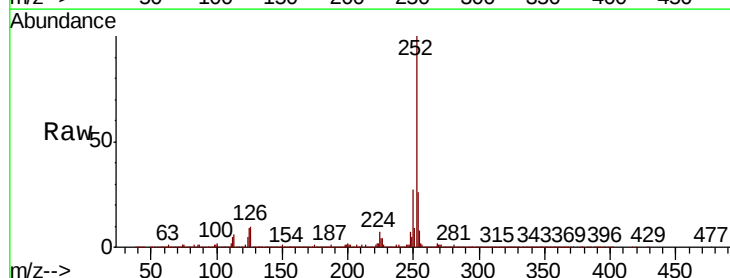
Tgt Ion:252 Resp: 2500715

Ion Ratio Lower Upper

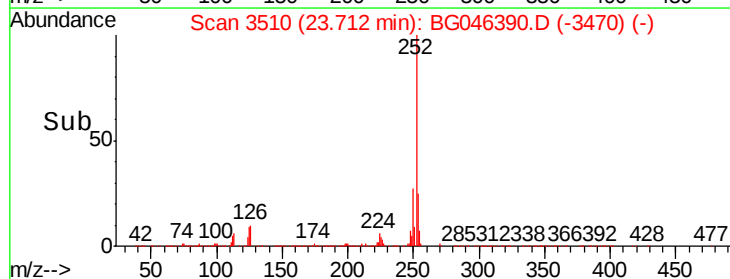
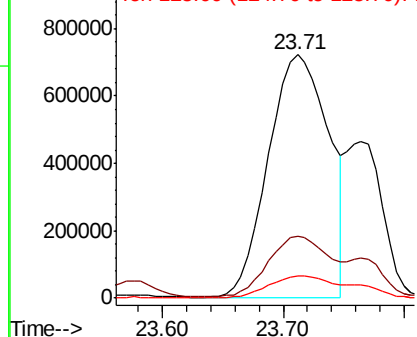
252 100

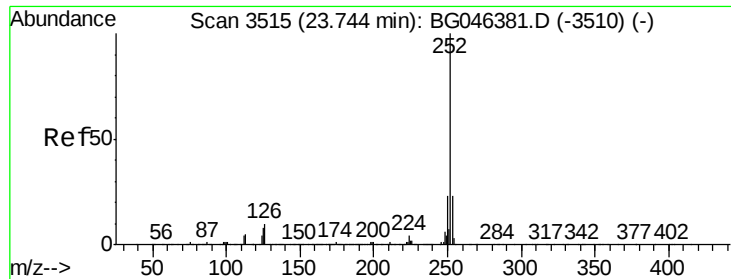
253 25.6 17.8 26.6

125 9.0 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: 26.411 ng/ul m

RT: 23.76 min Scan# 3519

Delta R.T. 0.02 min

Lab File: BG046390.D

Acq: 20 Aug 2020 22:38

Instrument :

BNA\_G

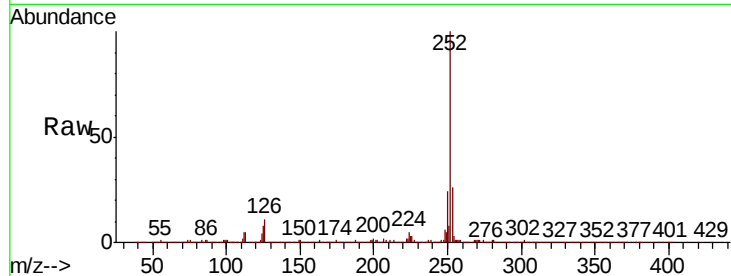
ClientSampled :

BFMF0

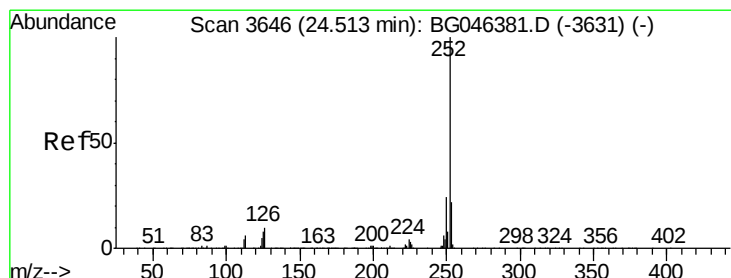
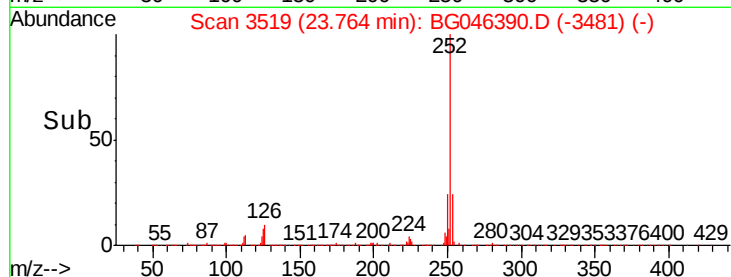
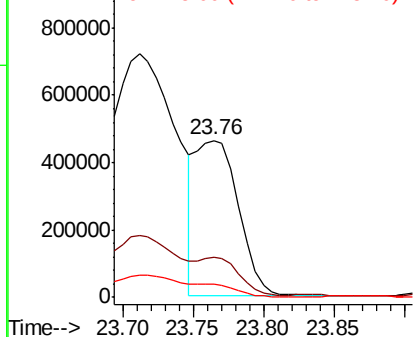
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 957457 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.9  | 18.5  | 27.7   |
| 125       | 8.4   | 6.2   | 9.2    |

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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



#27

Benzo(a)pyrene

Concen: 54.257 ng/ul

RT: 24.55 min Scan# 3652

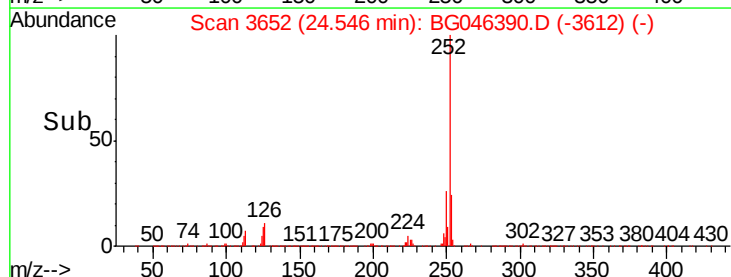
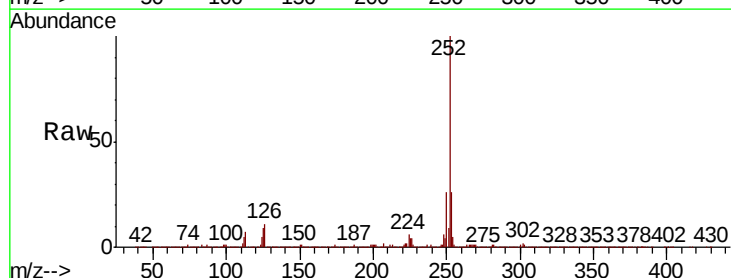
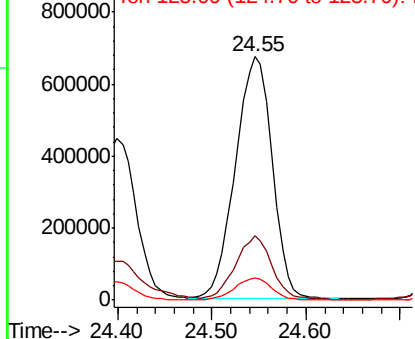
Delta R.T. 0.03 min

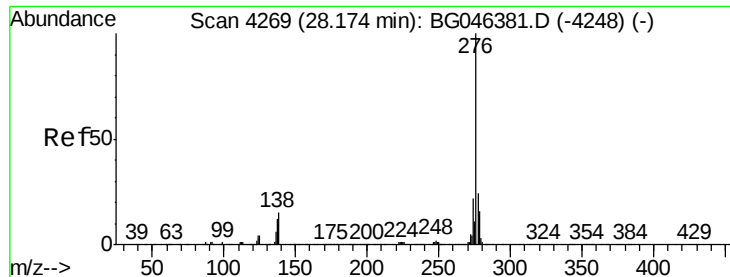
Lab File: BG046390.D

Acq: 20 Aug 2020 22:38

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1820422 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 26.2  | 17.8  | 26.8    |
| 125       | 9.4   | 7.1   | 10.7    |

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





#28

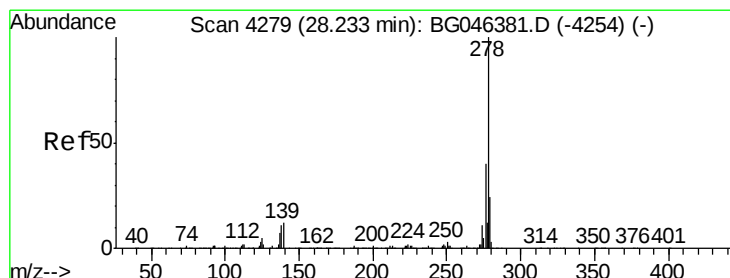
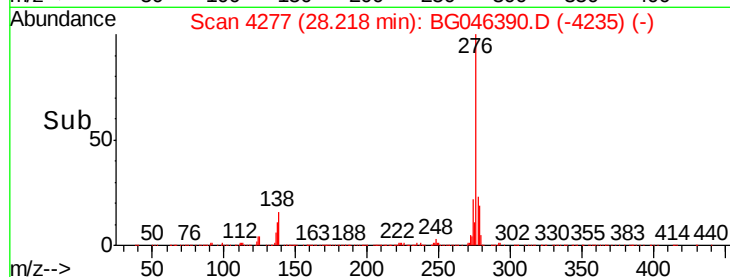
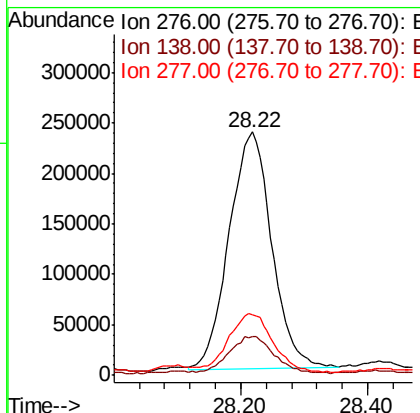
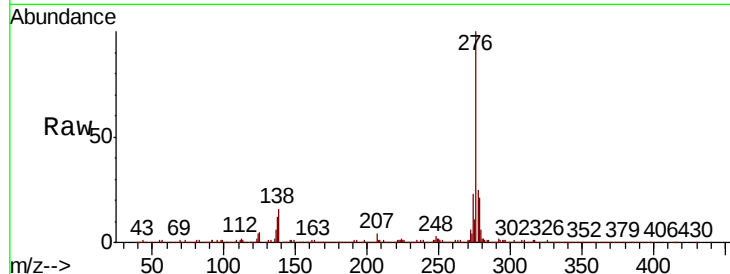
Indeno(1,2,3-cd)pyrene  
Concen: 26.145 ng/ul  
RT: 28.22 min Scan# 4277  
Delta R.T. 0.04 min  
Lab File: BG046390.D  
Acq: 20 Aug 2020 22:38

Instrument :  
BNA\_G  
ClientSampleId :  
BFMF0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.0  | 13.2  | 19.8  |
| 277     | 25.0  | 19.9  | 29.9  |

Manual Integrations  
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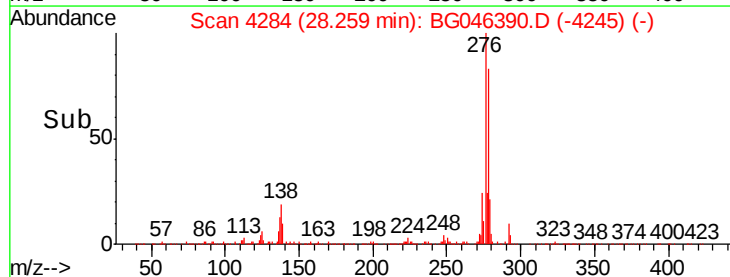
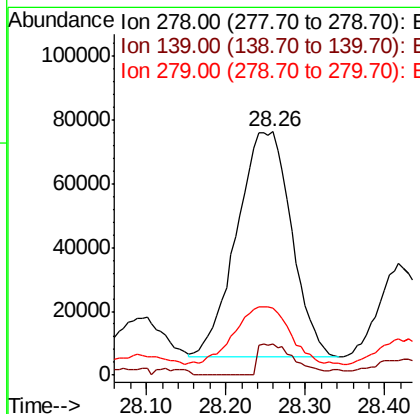
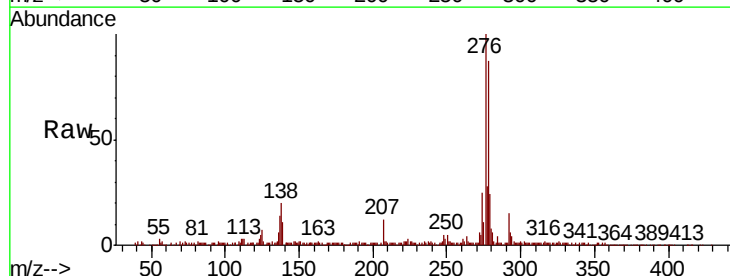
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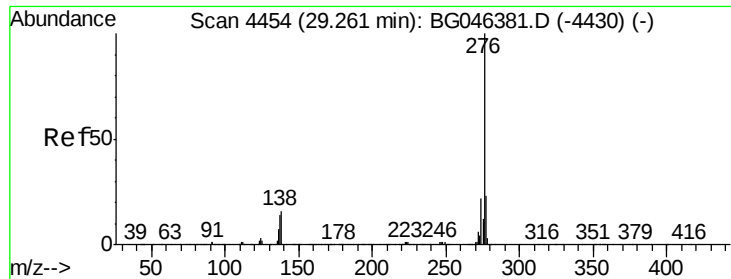


#29

Dibenzo(a,h)anthracene  
Concen: 9.888 ng/ul m  
RT: 28.26 min Scan# 4284  
Delta R.T. 0.03 min  
Lab File: BG046390.D  
Acq: 20 Aug 2020 22:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 12.8  | 9.8   | 14.8  |
| 279     | 27.7  | 19.7  | 29.5  |





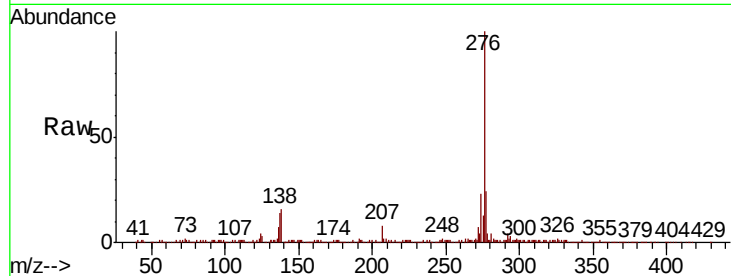
#30  
 Benzo(a,h,i)perylene  
 Concen: 17.799 ng/ul  
 RT: 29.31 min Scan# 4463  
 Delta R.T. 0.05 min  
 Lab File: BG046390.D  
 Acq: 20 Aug 2020 22:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMFO

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.4  | 12.9  | 19.3  |
| 277     | 23.8  | 19.4  | 29.0  |

Manual Integrations  
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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

