

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101017\  
 Data File : BG029139.D  
 Acq On : 10 Oct 2017 13:45  
 Operator : SJ/JU  
 Sample : I5576-21  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAHA2

Quant Time: Oct 11 04:46:40 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG100717MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 11 04:15:46 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.22  | 152  | 48962    | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.03 | 136  | 209049   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.83 | 164  | 137912   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.57 | 188  | 311259   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.85 | 240  | 332417   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 25.20 | 264  | 342481   | 20.00 | ng/ul | 0.00     |

|                             |       |     |        |       |       |      |
|-----------------------------|-------|-----|--------|-------|-------|------|
| System Monitoring Compounds |       |     |        |       |       |      |
| 7) Acenaphthylene-d8        | 14.52 | 160 | 499830 | 34.85 | ng/ul | 0.00 |
| 10) Fluorene-d10            | 15.82 | 176 | 389560 | 37.45 | ng/ul | 0.00 |
| 14) Anthracene-d10          | 17.66 | 188 | 569246 | 37.76 | ng/ul | 0.00 |
| 18) Pyrene-d10              | 19.93 | 212 | 658798 | 38.74 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12      | 24.97 | 264 | 615992 | 37.55 | ng/ul | 0.01 |

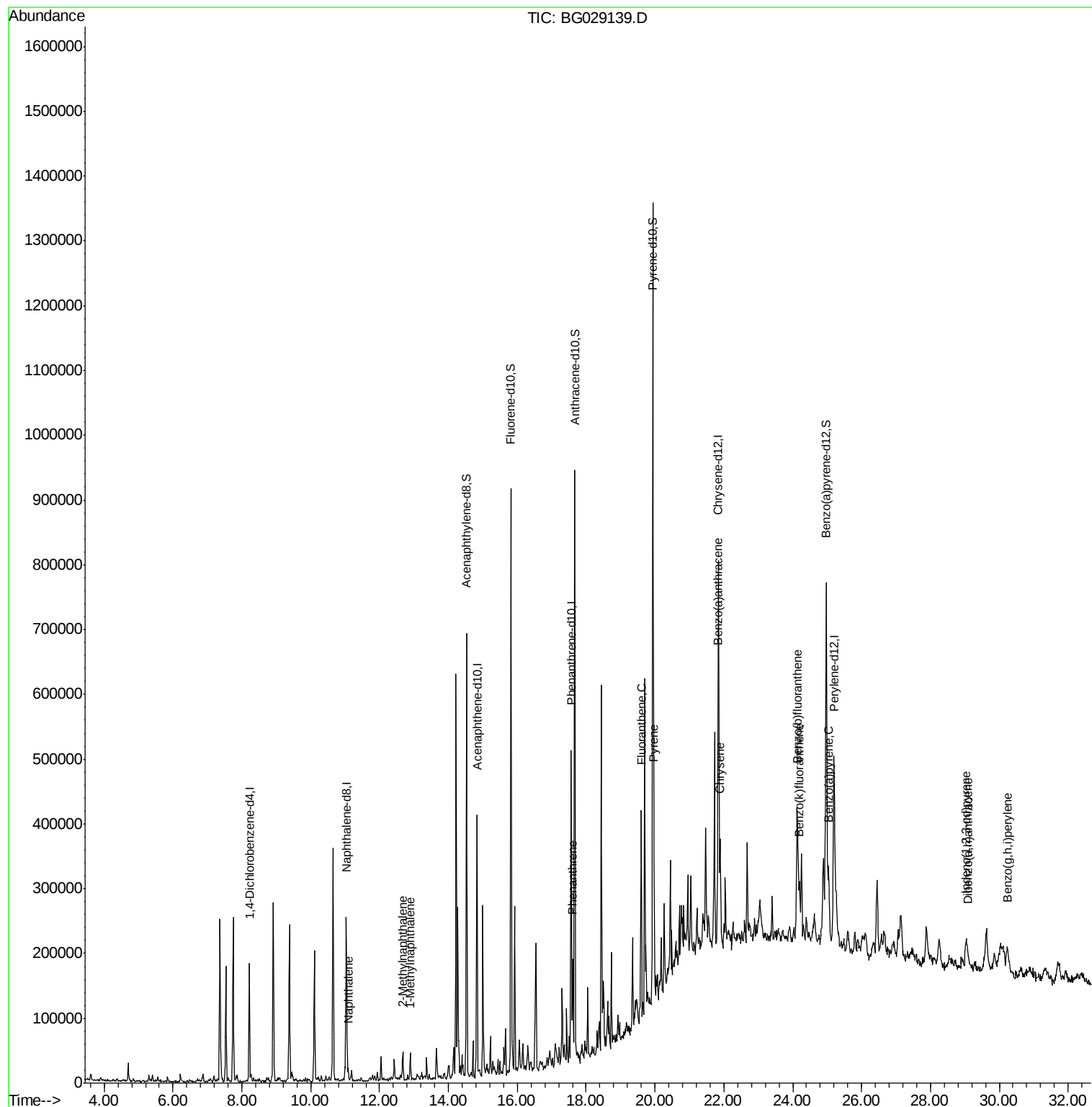
|                            |       |     |        |        |        |    |
|----------------------------|-------|-----|--------|--------|--------|----|
| Target Compounds           |       |     |        | Ovalue |        |    |
| 3) Naphthalene             | 11.08 | 128 | 15244  | 1.401  | ng/ul# | 95 |
| 4) 2-Methylnaphthalene     | 12.67 | 142 | 19533  | 2.365  | ng/ul  | 88 |
| 5) 1-Methylnaphthalene     | 12.89 | 142 | 21318  | 2.704  | ng/ul# | 92 |
| 13) Phenanthrene           | 17.61 | 178 | 99023  | 5.964  | ng/ul  | 98 |
| 16) Fluoranthene           | 19.61 | 202 | 181092 | 9.305  | ng/ul# | 90 |
| 19) Pyrene                 | 19.96 | 202 | 169590 | 8.184  | ng/ul# | 88 |
| 20) Benzo(a)anthracene     | 21.83 | 228 | 120689 | 6.165  | ng/ul  | 97 |
| 21) Chrysene               | 21.89 | 228 | 147884 | 8.250  | ng/ul  | 97 |
| 23) Benzo(b)fluoranthene   | 24.13 | 252 | 240419 | 11.734 | ng/ul# | 94 |
| 24) Benzo(k)fluoranthene   | 24.20 | 252 | 86343  | 4.318  | ng/ul# | 97 |
| 26) Benzo(a)pyrene         | 25.05 | 252 | 136155 | 6.842  | ng/ul  | 96 |
| 27) Indeno(1,2,3-cd)pyrene | 29.04 | 276 | 100991 | 4.471  | ng/ul# | 90 |
| 28) Dibenzo(a,h)anthracene | 29.09 | 278 | 33313  | 1.781  | ng/ul# | 81 |
| 29) Benzo(a,h,i)perylene   | 30.24 | 276 | 82449  | 4.427  | ng/ul# | 94 |

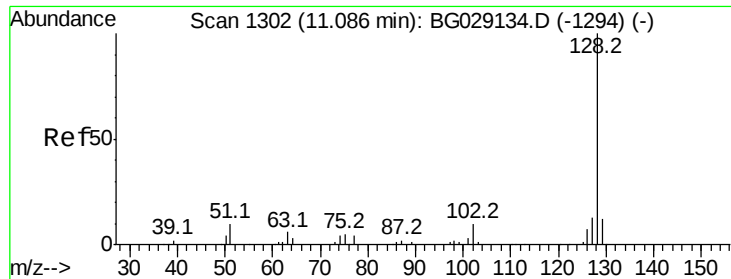
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101017\  
Data File : BG029139.D  
Acq On : 10 Oct 2017 13:45  
Operator : SJ/JU  
Sample : I5576-21  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DAHA2

Quant Time: Oct 11 04:46:40 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG100717MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 11 04:15:46 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.401 ng/ul

RT: 11.08 min Scan# 1301

Delta R.T. -0.00 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Instrument :

BNA\_G

ClientSampled :

DAHA2

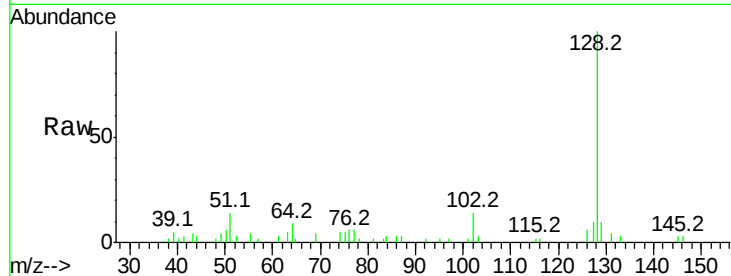
Tot Ion:128 Resp: 15244

Ion Ratio Lower Upper

128 100

129 9.7 8.7 13.1

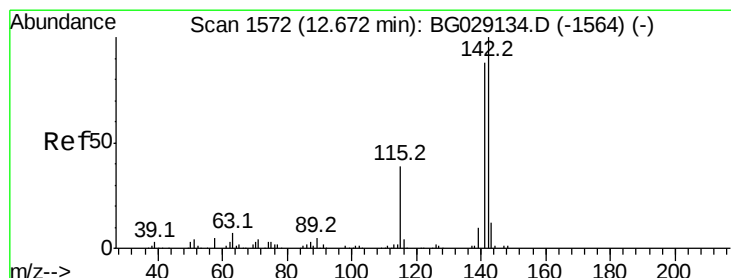
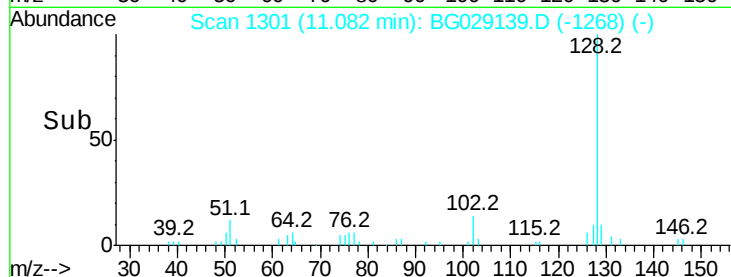
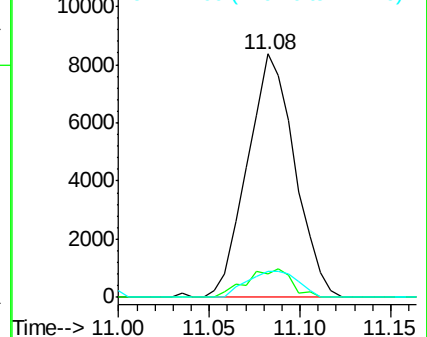
127 10.5 10.6 16.0#



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



#4

2-Methylnaphthalene

Concen: 2.365 ng/ul

RT: 12.67 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BG029139.D

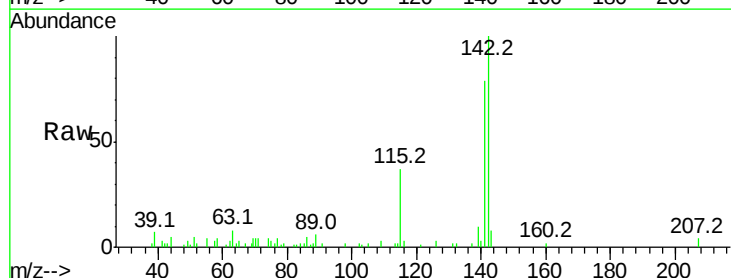
Acq: 10 Oct 2017 13:45

Tgt Ion:142 Resp: 19533

Ion Ratio Lower Upper

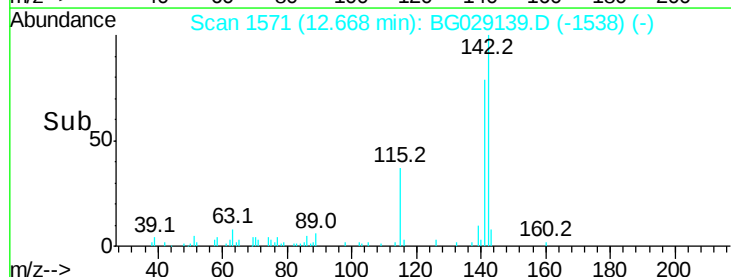
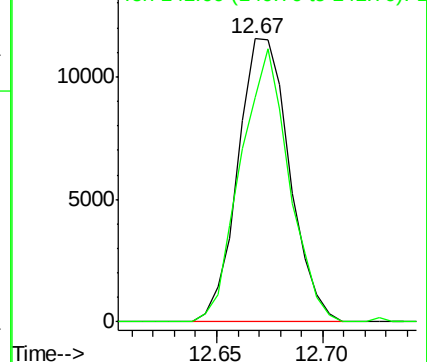
142 100

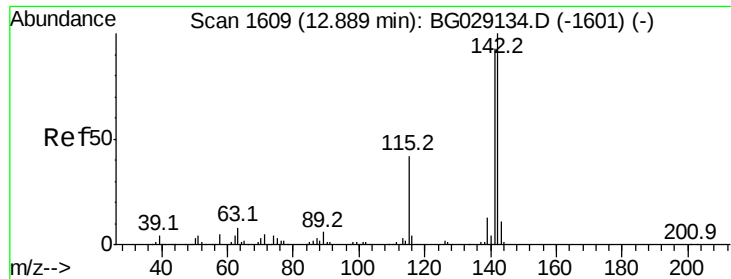
141 79.5 72.7 109.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 2.704 ng/ul

RT: 12.89 min Scan# 1609

Delta R.T. 0.00 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Instrument :

BNA\_G

ClientSampleId :

DAHA2

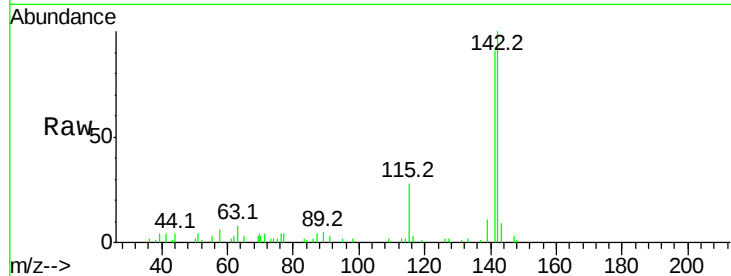
Tot Ion:142 Resp: 21318

Ion Ratio Lower Upper

142 100

141 91.4 79.3 118.9

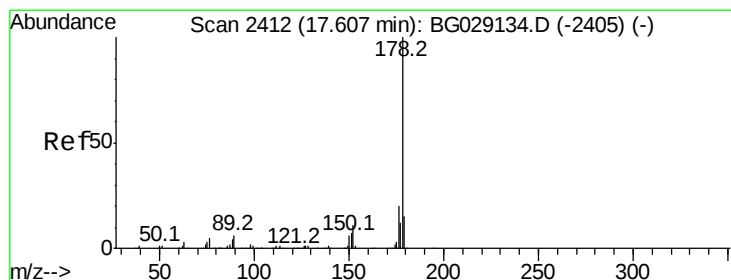
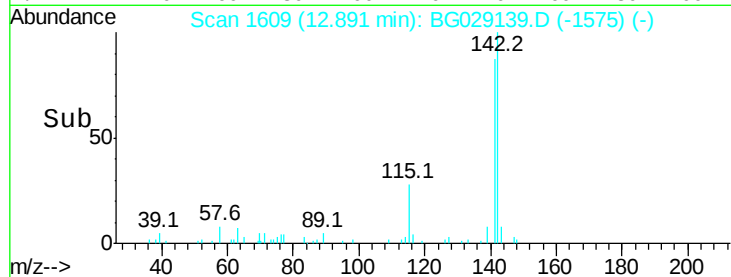
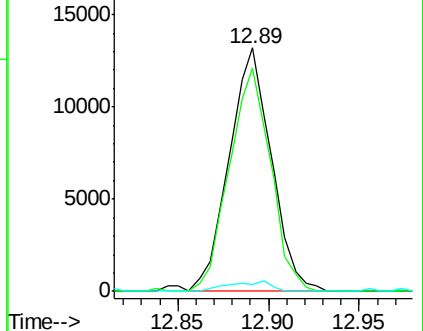
116 2.9 4.2 6.2#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#13

Phenanthrene

Concen: 5.964 ng/ul

RT: 17.61 min Scan# 2412

Delta R.T. 0.00 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

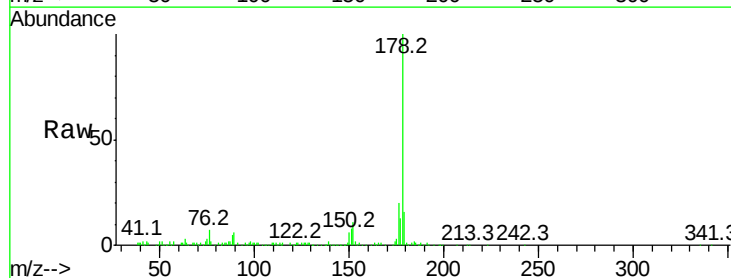
Tgt Ion:178 Resp: 99023

Ion Ratio Lower Upper

178 100

179 16.3 12.3 18.5

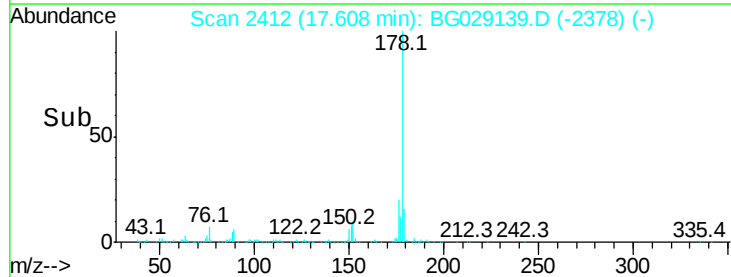
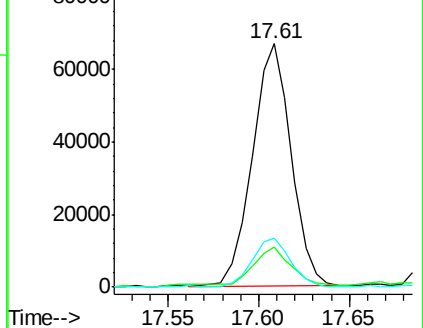
176 20.0 15.1 22.7

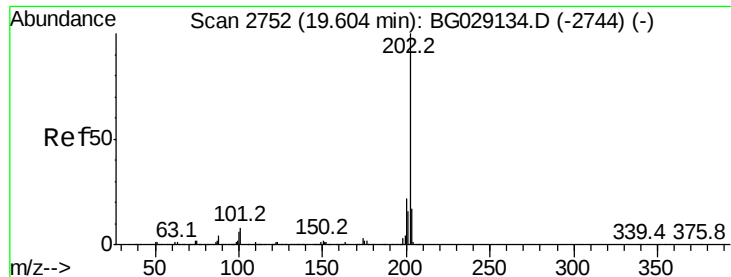


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

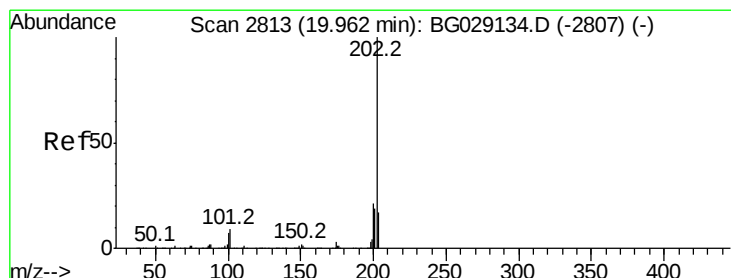
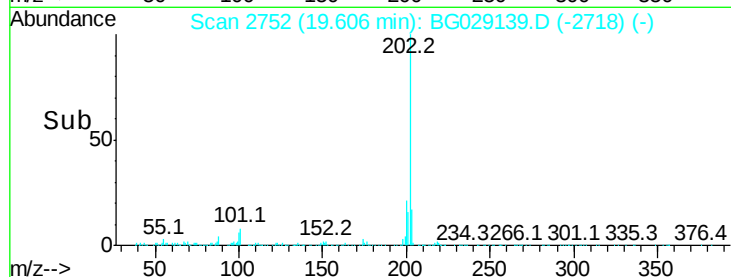
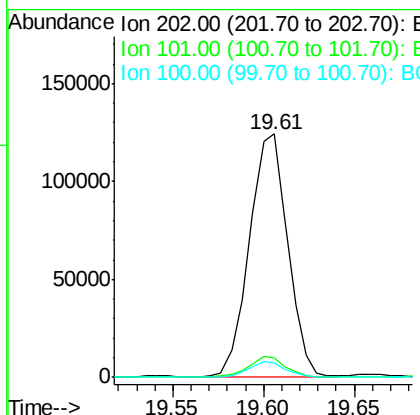
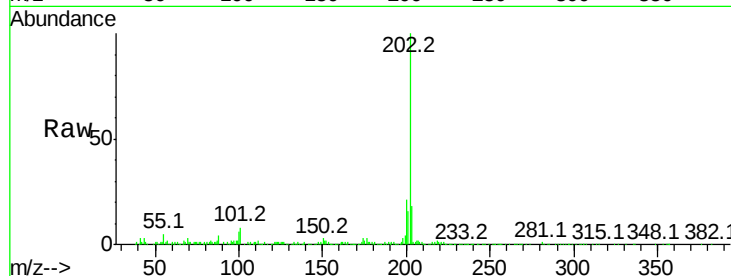




#16  
Fluoranthene  
Concen: 9.305 ng/ul  
RT: 19.61 min Scan# 2752  
Delta R.T. 0.00 min  
Lab File: BG029139.D  
Acq: 10 Oct 2017 13:45

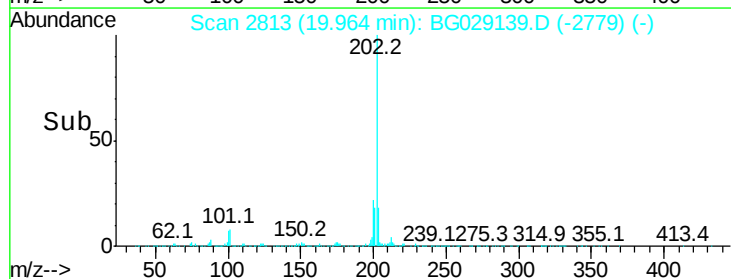
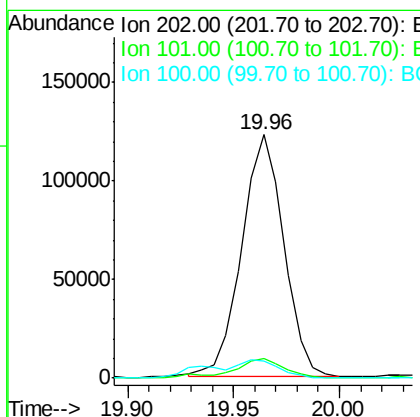
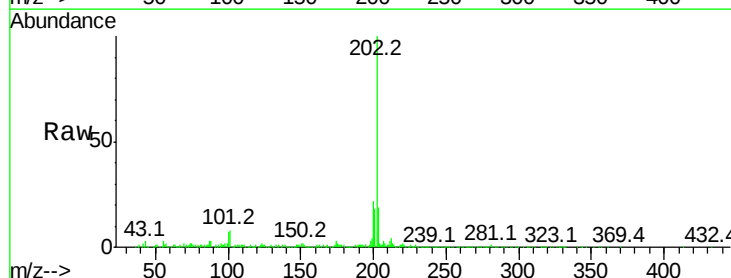
Instrument :  
BNA\_G  
ClientSampleId :  
DAHA2

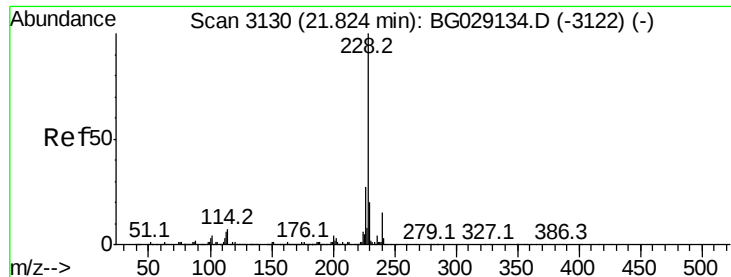
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.1   | 9.9   | 14.9# |
| 100     | 5.9   | 7.4   | 11.0# |



#19  
Pyrene  
Concen: 8.184 ng/ul  
RT: 19.96 min Scan# 2813  
Delta R.T. 0.00 min  
Lab File: BG029139.D  
Acq: 10 Oct 2017 13:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.0   | 11.0  | 16.4# |
| 100     | 6.8   | 8.1   | 12.1# |





#20

Benzo(a)anthracene

Concen: 6.165 ng/ul

RT: 21.83 min Scan# 3130

Delta R.T. 0.00 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Instrument :

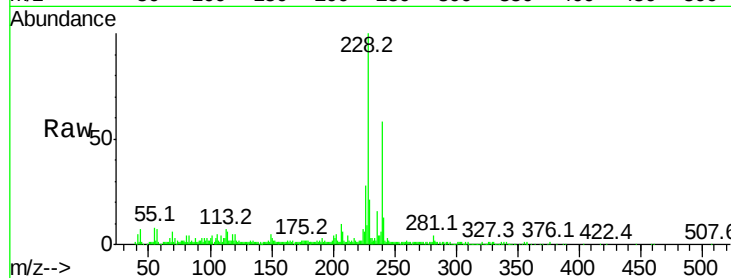
BNA\_G

ClientSampleId :

DAHA2

Tot Ion:228 Resp: 120689

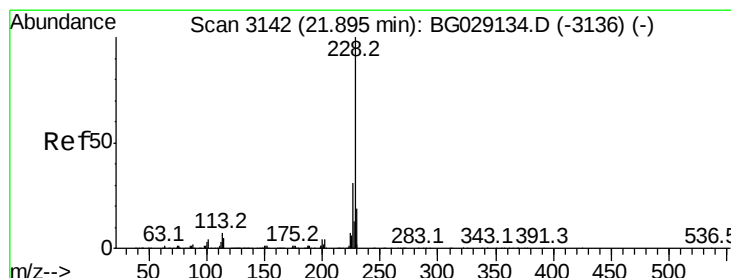
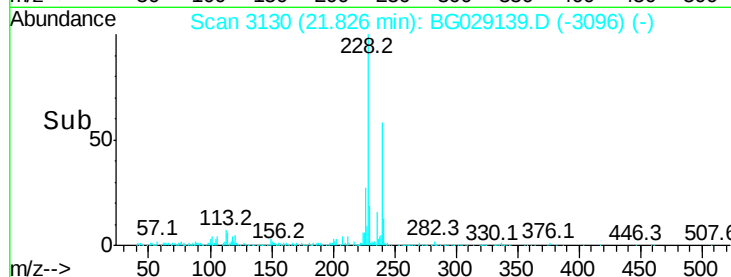
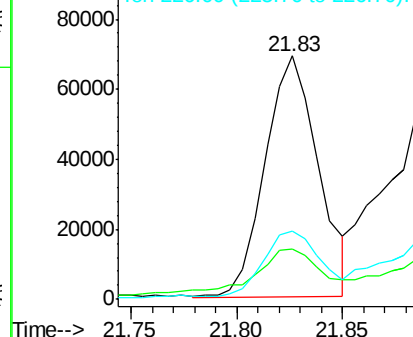
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 20.5  | 15.7  | 23.5  |
| 226 | 28.0  | 21.1  | 31.7  |



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



#21

Chrysene

Concen: 8.250 ng/ul

RT: 21.89 min Scan# 3141

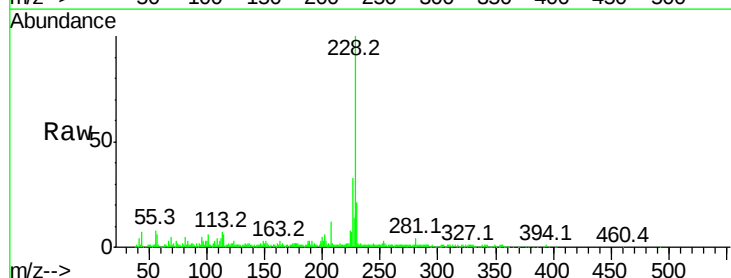
Delta R.T. -0.00 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Tgt Ion:228 Resp: 147884

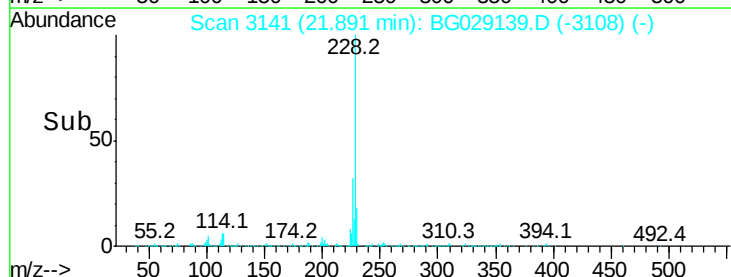
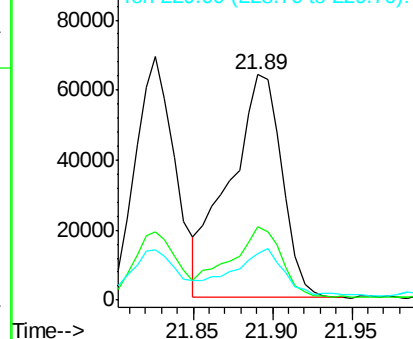
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 32.7  | 24.5  | 36.7  |
| 229 | 20.7  | 15.8  | 23.8  |

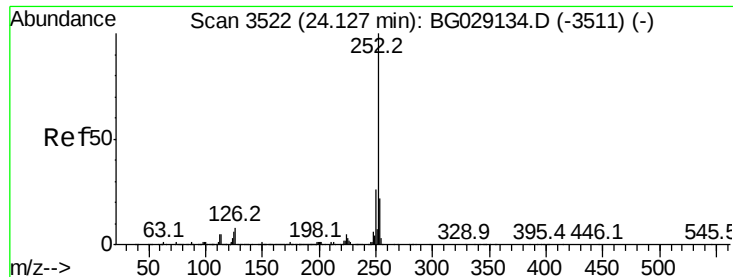


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Benzo(b)fluoranthene

Concen: 11.734 ng/ul

RT: 24.13 min Scan# 3523

Delta R.T. 0.01 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Instrument :

BNA\_G

ClientSampleId :

DAHA2

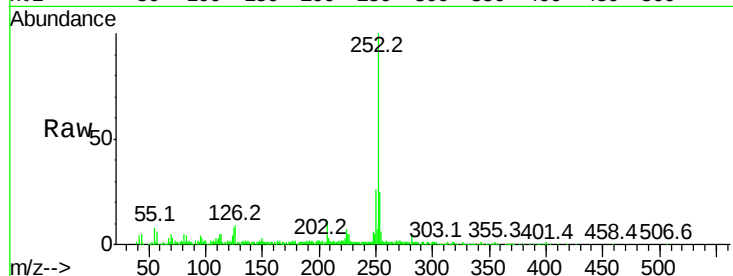
Tot Ion:252 Resp: 240419

Ion Ratio Lower Upper

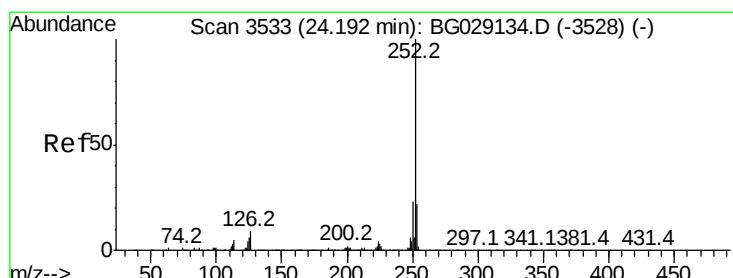
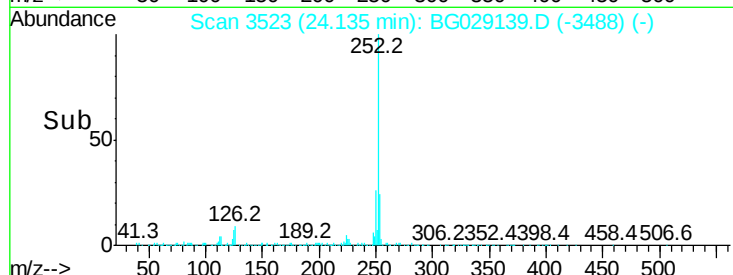
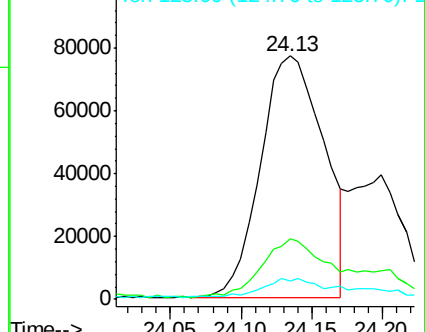
252 100

253 25.0 18.0 27.0

125 7.7 8.0 12.0#



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



#24

Benzo(k)fluoranthene

Concen: 4.318 ng/ul

RT: 24.20 min Scan# 3534

Delta R.T. 0.01 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

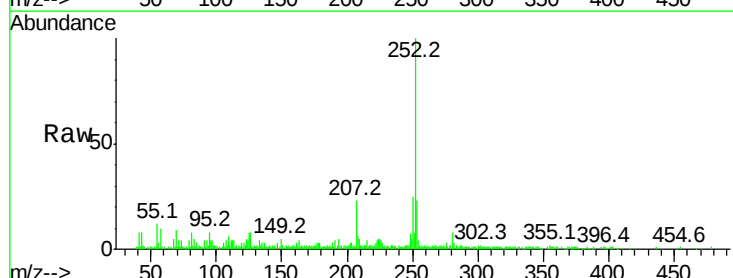
Tgt Ion:252 Resp: 86343

Ion Ratio Lower Upper

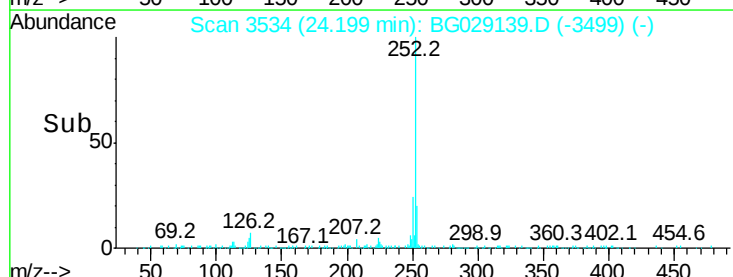
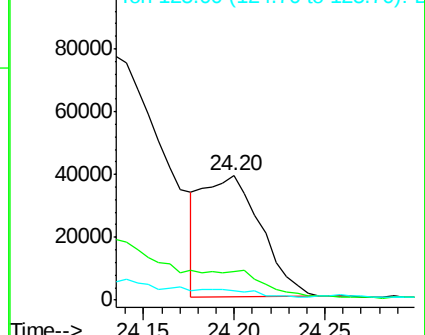
252 100

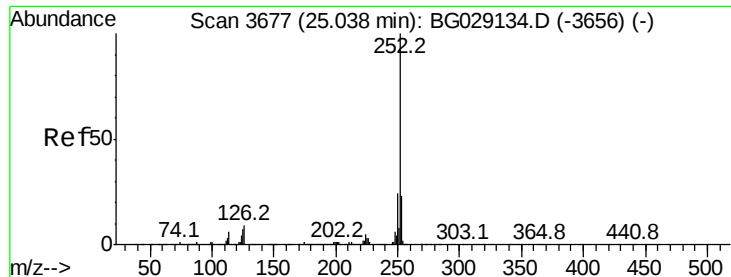
253 23.2 18.0 27.0

125 7.9 8.1 12.1#



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





#26

Benzo(a)pyrene

Concen: 6.842 ng/ul

RT: 25.05 min Scan# 3678

Delta R.T. 0.01 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Instrument :

BNA\_G

ClientSampleId :

DAHA2

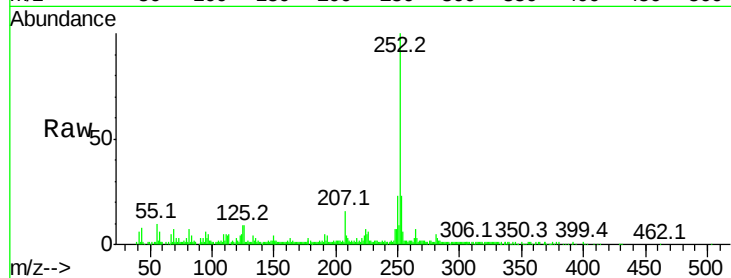
Tot Ion:252 Resp: 136155

Ion Ratio Lower Upper

252 100

253 23.4 17.2 25.8

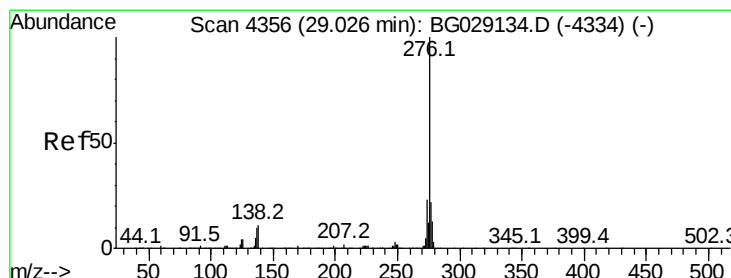
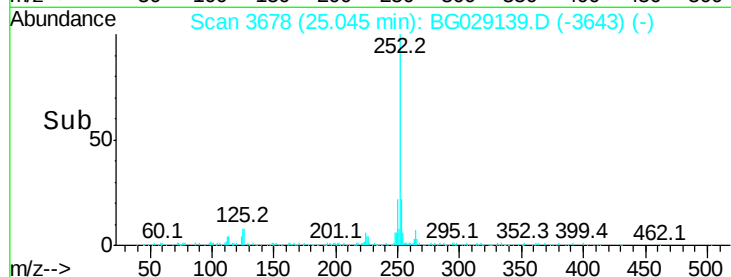
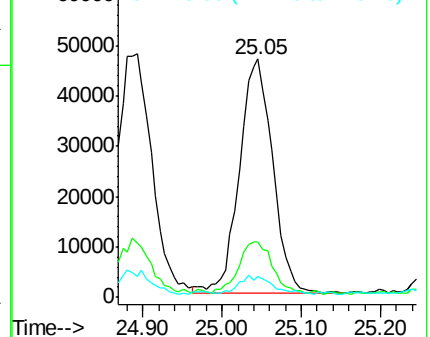
125 8.6 8.2 12.4



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

Indeno(1,2,3-cd)pyrene

Concen: 4.471 ng/ul

RT: 29.04 min Scan# 4358

Delta R.T. 0.01 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

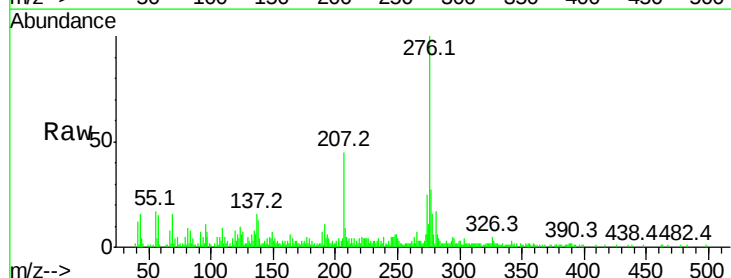
Tgt Ion:276 Resp: 100991

Ion Ratio Lower Upper

276 100

138 13.4 14.4 21.6#

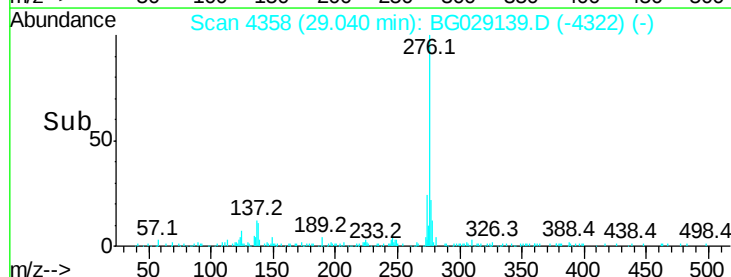
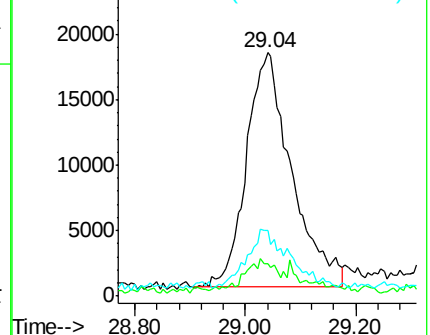
277 27.2 18.0 27.0#

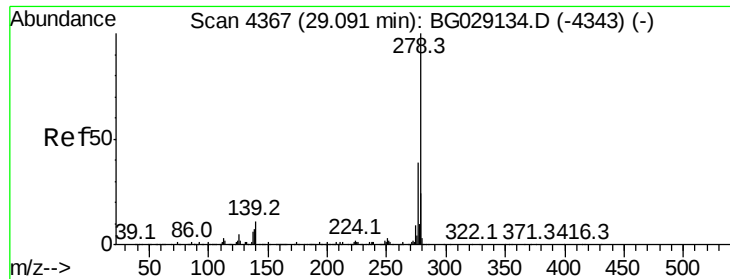


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#28

Dibenzo(a,h)anthracene

Concen: 1.781 ng/ul

RT: 29.09 min Scan# 4366

Delta R.T. -0.00 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Instrument :

BNA\_G

ClientSampleId :

DAHA2

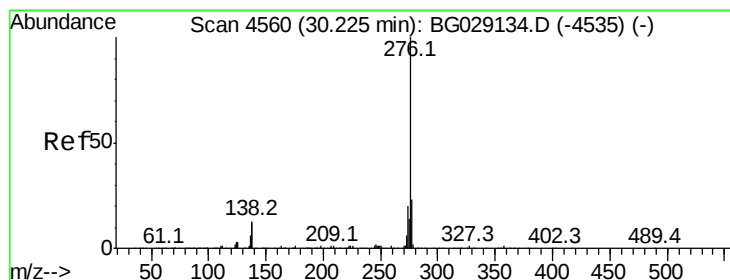
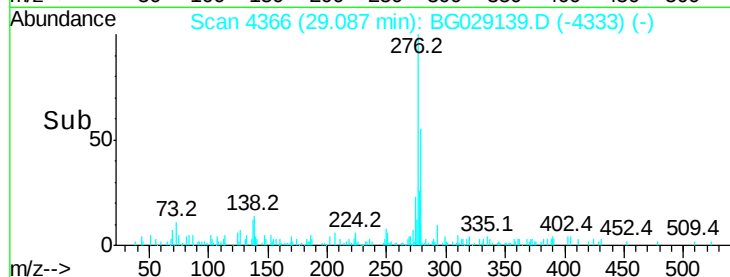
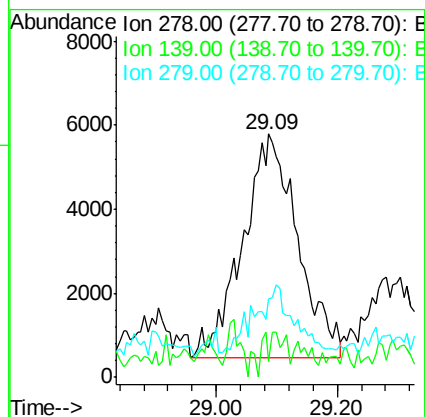
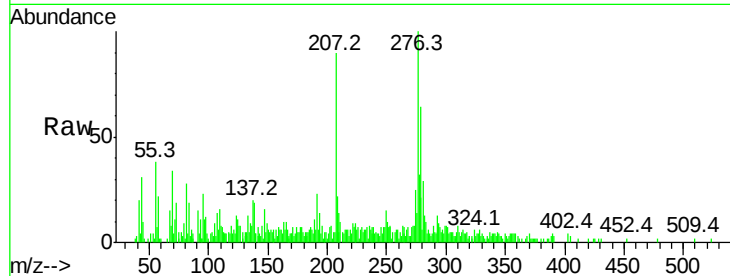
Tot Ion:278 Resp: 33313

Ion Ratio Lower Upper

278 100

139 6.4 12.2 18.4#

279 32.4 19.2 28.8#



#29

Benzo(g,h,i)perylene

Concen: 4.427 ng/ul

RT: 30.24 min Scan# 4562

Delta R.T. 0.01 min

Lab File: BG029139.D

Acq: 10 Oct 2017 13:45

Tgt Ion:276 Resp: 82449

Ion Ratio Lower Upper

276 100

138 13.6 15.3 22.9#

277 24.1 19.0 28.4

