

Data Path : Z:\HPCHEM1\BNA G\DATA\BG100917\  
 Data File : BG029111.D  
 Acq On : 9 Oct 2017 17:17  
 Operator : SJ/JU  
 Sample : I5579-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAHB7

Quant Time: Oct 10 04:48:34 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG100717MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Oct 10 04:45:55 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.21  | 152  | 53482    | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.03 | 136  | 245082   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.83 | 164  | 164461   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.56 | 188  | 374619   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.84 | 240  | 382217   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 25.18 | 264  | 399775   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 14.52 | 160  | 373345   | 21.83 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.81 | 176  | 290021   | 23.38 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 17.66 | 188  | 418120   | 23.04 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 19.93 | 212  | 464850   | 23.77 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.96 | 264  | 445990   | 23.29 | ng/ul | 0.00     |

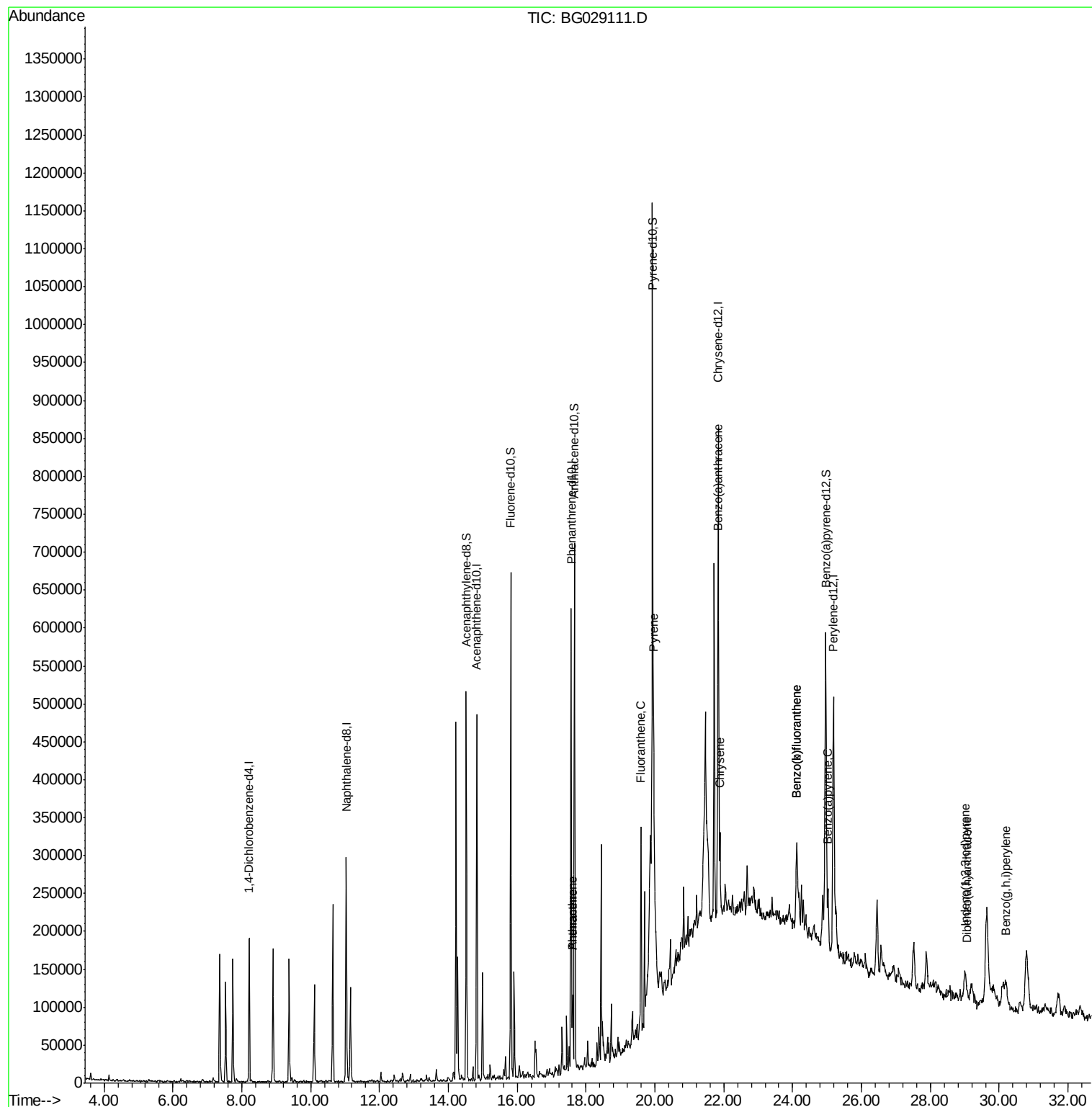
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 13) Phenanthrene           | 17.60 | 178  | 65655    | 3.286 | ng/ul  | 97     |
| 15) Anthracene             | 17.60 | 178  | 65655    | 3.212 | ng/ul  | 96     |
| 16) Fluoranthene           | 19.60 | 202  | 147102   | 6.280 | ng/ul# | 92     |
| 19) Pyrene                 | 19.96 | 202  | 128272   | 5.384 | ng/ul# | 91     |
| 20) Benzo(a)anthracene     | 21.82 | 228  | 77203    | 3.430 | ng/ul  | 93     |
| 21) Chrysene               | 21.89 | 228  | 97518    | 4.731 | ng/ul  | 98     |
| 23) Benzo(b)fluoranthene   | 24.12 | 252  | 135997   | 5.686 | ng/ul  | 94     |
| 24) Benzo(k)fluoranthene   | 24.12 | 252  | 135997   | 5.826 | ng/ul  | 95     |
| 26) Benzo(a)pyrene         | 25.02 | 252  | 87384    | 3.762 | ng/ul  | 97     |
| 27) Indeno(1,2,3-cd)pyrene | 29.00 | 276  | 74129    | 2.812 | ng/ul# | 91     |
| 28) Dibenzo(a,h)anthracene | 29.06 | 278  | 22365    | 1.025 | ng/ul# | 89     |
| 29) Benzo(g,h,i)perylene   | 30.20 | 276  | 68920    | 3.170 | ng/ul# | 94     |

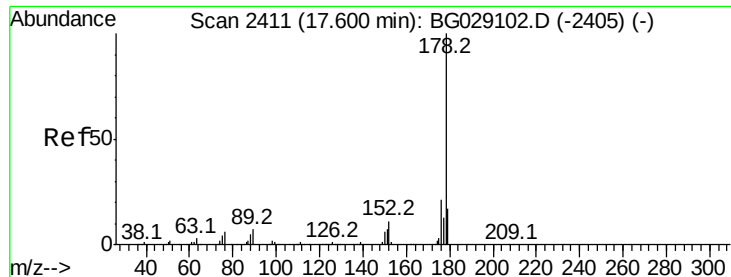
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Phenanthrene

Concen: 3.286 ng/ul

RT: 17.60 min Scan# 2411

Delta R.T. 0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

Instrument :

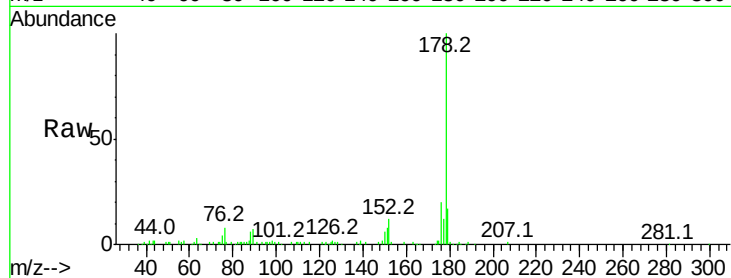
BNA\_G

ClientSampleId :

DAHB7

Tot Ion:178 Resp: 65655

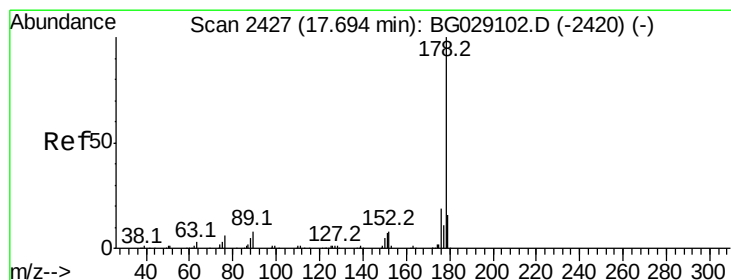
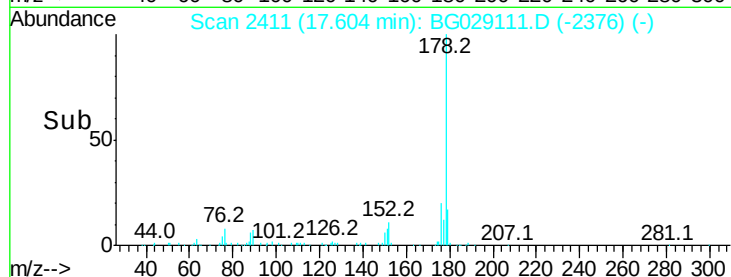
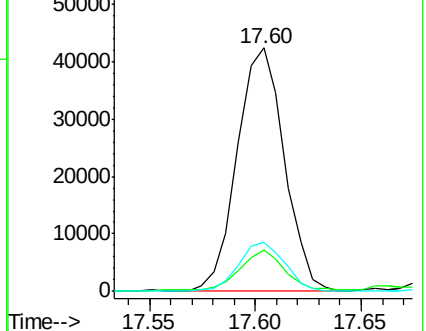
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.9  | 12.3  | 18.5  |
| 176 | 20.1  | 15.1  | 22.7  |



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



#15

Anthracene

Concen: 3.212 ng/ul

RT: 17.60 min Scan# 2411

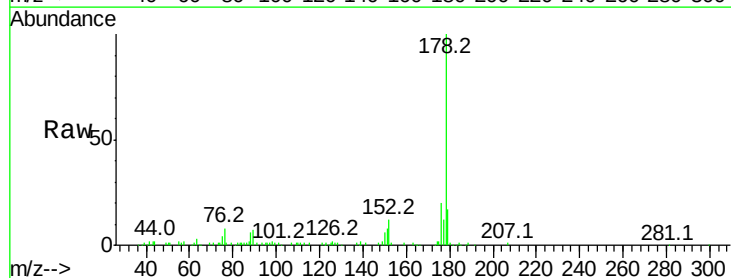
Delta R.T. -0.09 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

Tgt Ion:178 Resp: 65655

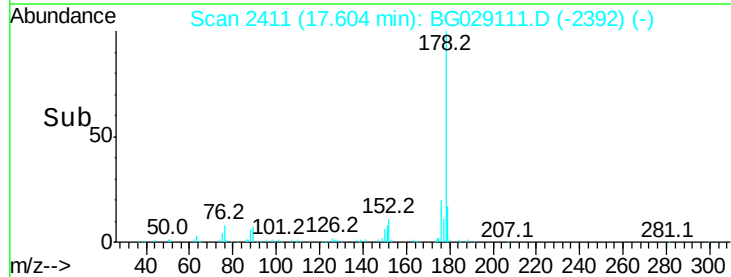
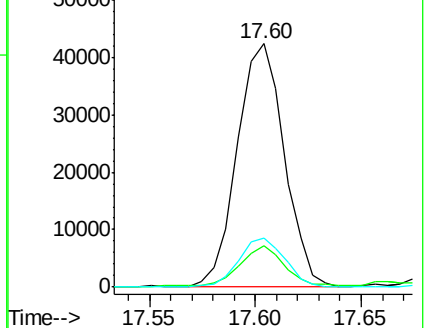
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.9  | 11.8  | 17.8  |
| 176 | 20.1  | 15.2  | 22.8  |

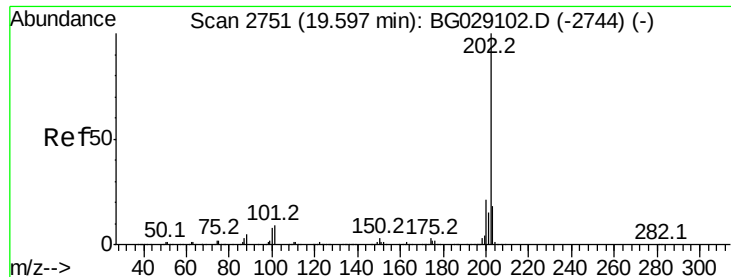


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#16

Fluoranthene

Concen: 6.280 ng/ul

RT: 19.60 min Scan# 2750

Delta R.T. -0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

Instrument :

BNA\_G

ClientSampleId :

DAHB7

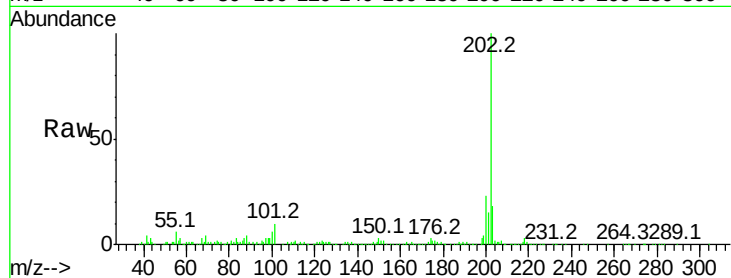
Tot Ion:202 Resp: 147102

Ion Ratio Lower Upper

202 100

101 9.6 9.9 14.9#

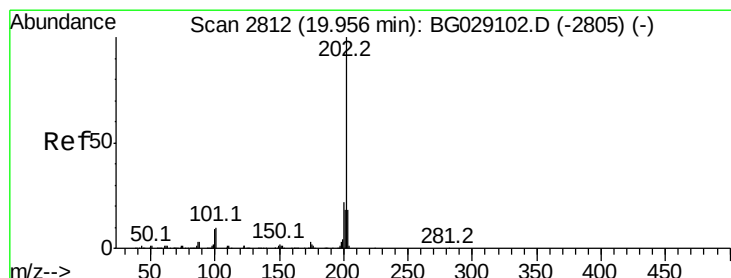
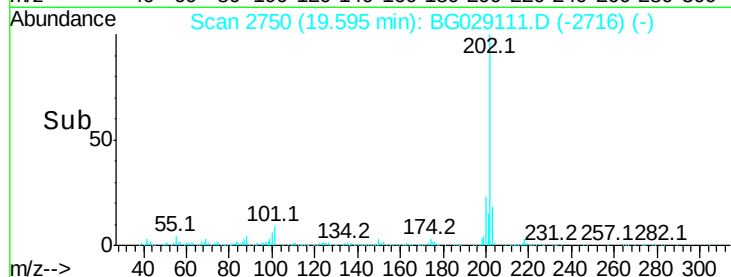
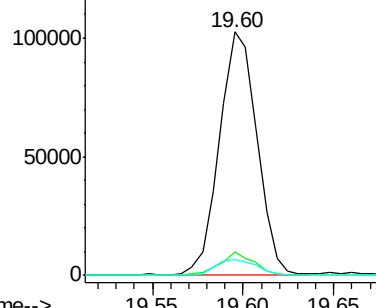
100 6.3 7.4 11.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#19

Pyrene

Concen: 5.384 ng/ul

RT: 19.96 min Scan# 2812

Delta R.T. 0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

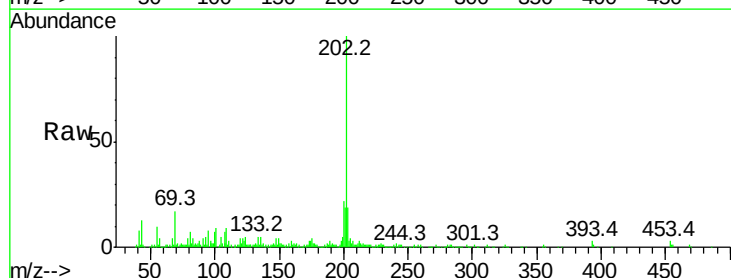
Tgt Ion:202 Resp: 128272

Ion Ratio Lower Upper

202 100

101 9.4 11.0 16.4#

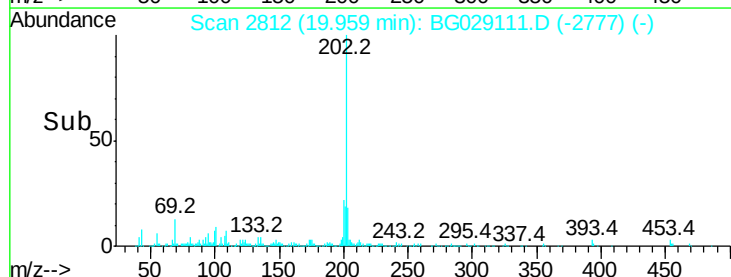
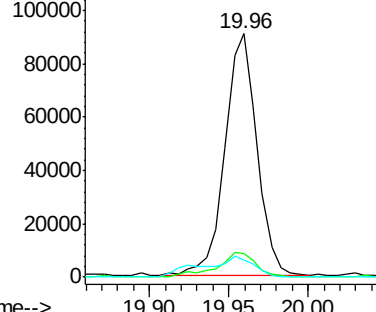
100 7.2 8.1 12.1#

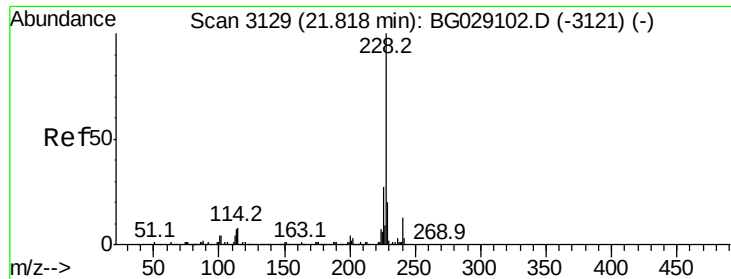


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#20

Benzo(a)anthracene

Concen: 3.430 ng/ul

RT: 21.82 min Scan# 3129

Delta R.T. 0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

Instrument :

BNA\_G

ClientSampleId :

DAHB7

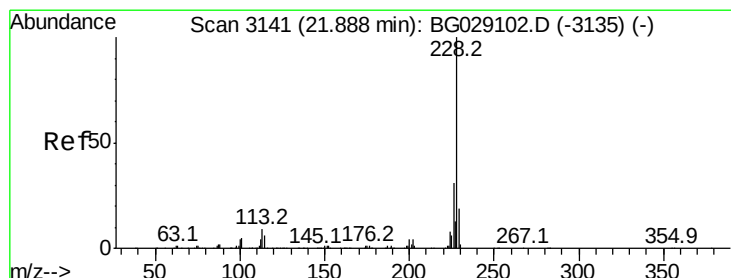
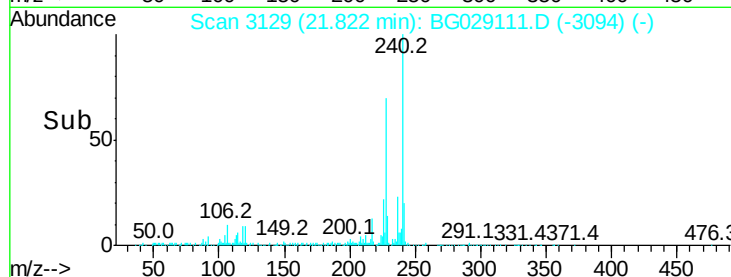
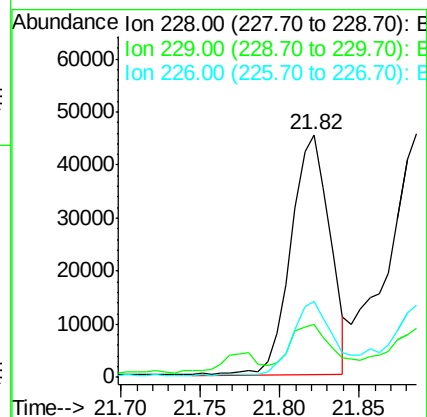
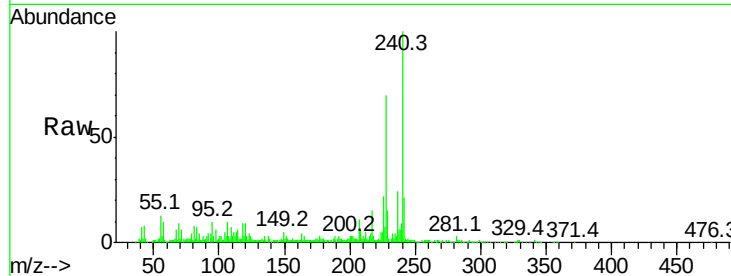
Tot Ion:228 Resp: 77203

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 21.6  | 15.7  | 23.5  |
| 226 | 31.2  | 21.1  | 31.7  |

228 100

229 21.6 15.7 23.5

226 31.2 21.1 31.7



#21

Chrysene

Concen: 4.731 ng/ul

RT: 21.89 min Scan# 3140

Delta R.T. -0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

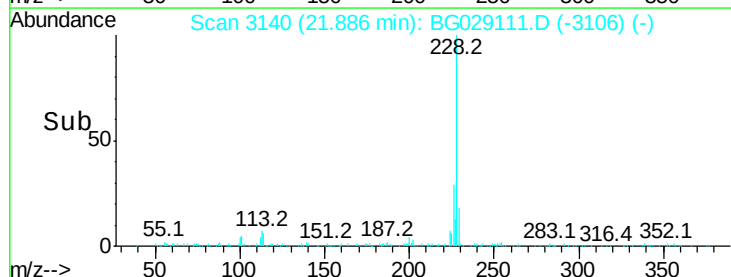
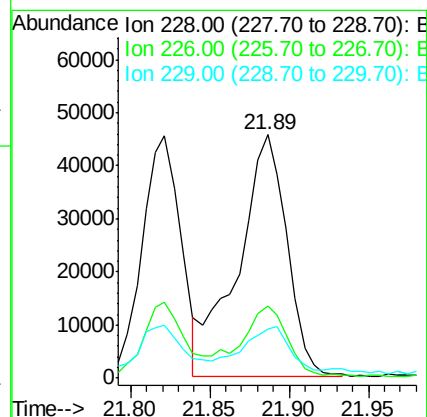
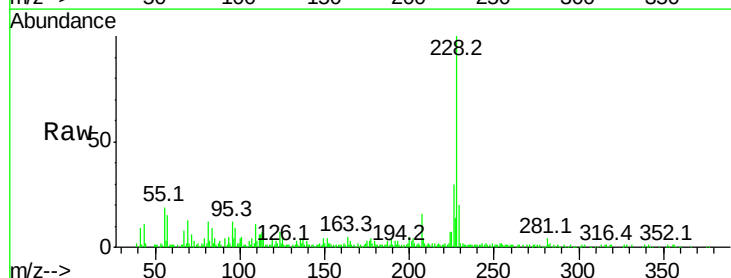
Tgt Ion:228 Resp: 97518

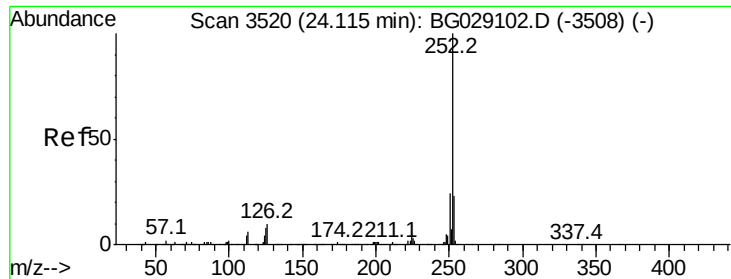
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.6  | 24.5  | 36.7  |
| 229 | 20.2  | 15.8  | 23.8  |

228 100

226 29.6 24.5 36.7

229 20.2 15.8 23.8





#23

Benzo(b)fluoranthene

Concen: 5.686 ng/ul

RT: 24.12 min Scan# 3520

Delta R.T. 0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

Instrument :

BNA\_G

ClientSampleId :

DAHB7

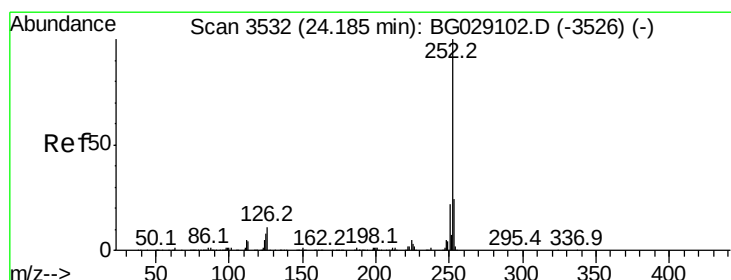
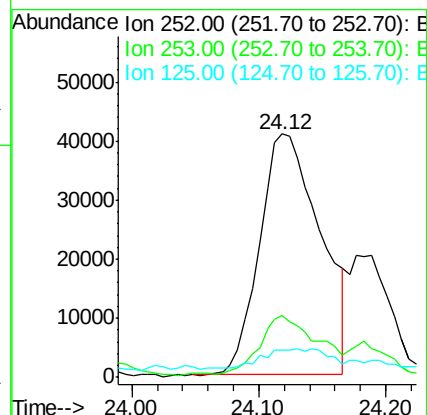
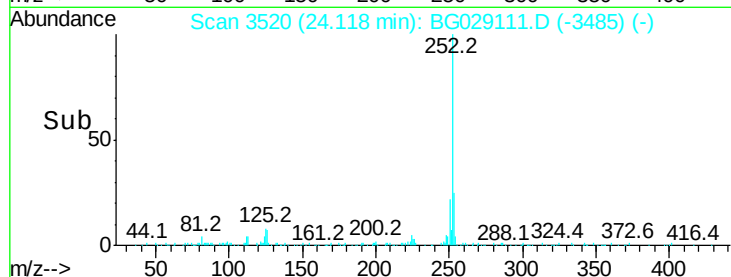
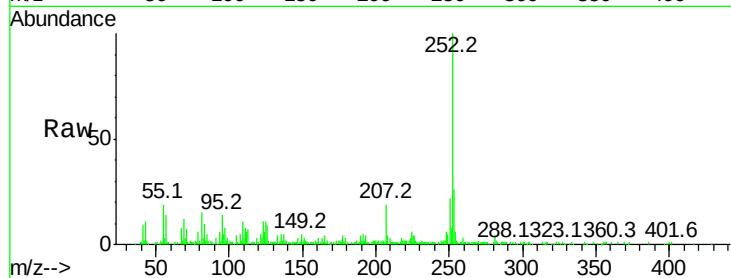
Tot Ion:252 Resp: 135997

Ion Ratio Lower Upper

252 100

253 25.5 18.0 27.0

125 11.4 8.0 12.0



#24

Benzo(k)fluoranthene

Concen: 5.826 ng/ul

RT: 24.12 min Scan# 3520

Delta R.T. -0.07 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

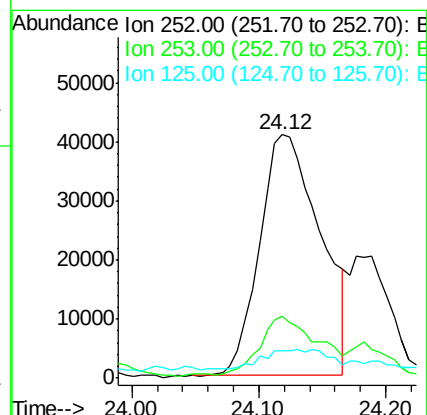
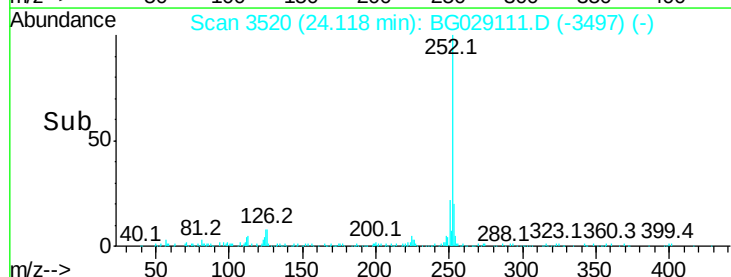
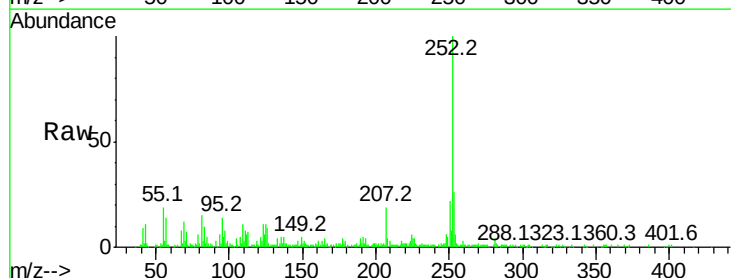
Tgt Ion:252 Resp: 135997

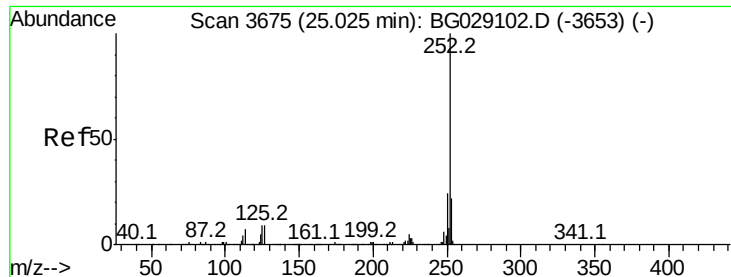
Ion Ratio Lower Upper

252 100

253 25.5 18.0 27.0

125 11.4 8.1 12.1





#26

Benzo(a)pyrene

Concen: 3.762 ng/ul

RT: 25.02 min Scan# 3674

Delta R.T. -0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

Instrument :

BNA\_G

ClientSampleId :

DAHB7

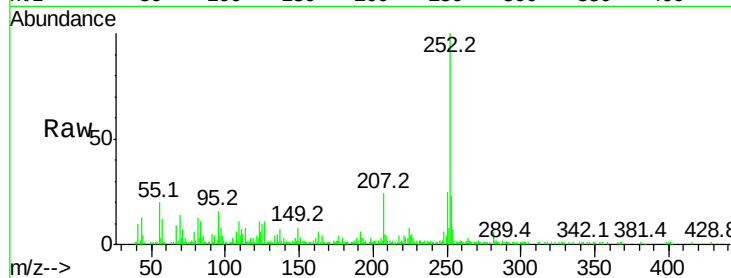
Tot Ion:252 Resp: 87384

Ion Ratio Lower Upper

252 100

253 23.3 17.2 25.8

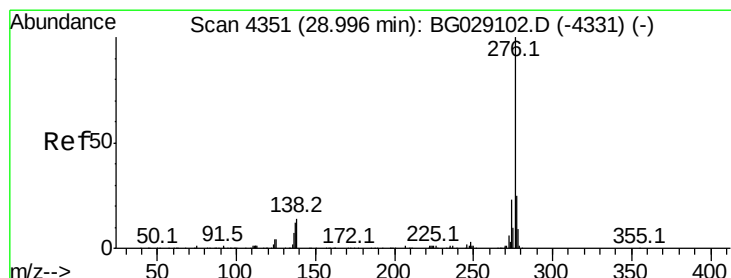
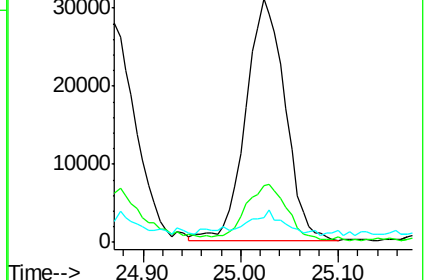
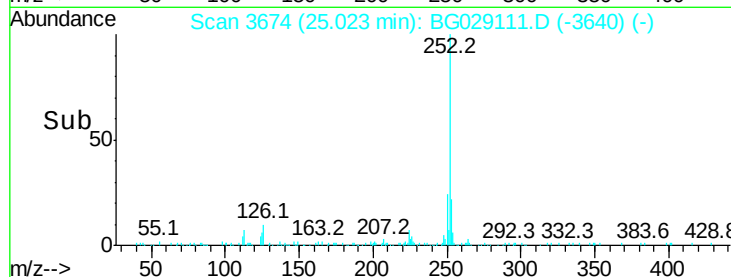
125 10.3 8.2 12.4



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: 2.812 ng/ul

RT: 29.00 min Scan# 4351

Delta R.T. 0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

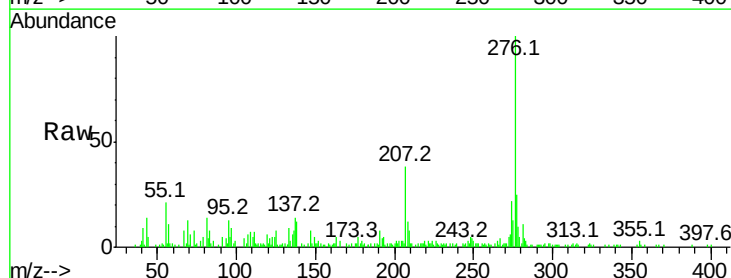
Tgt Ion:276 Resp: 74129

Ion Ratio Lower Upper

276 100

138 11.8 14.4 21.6#

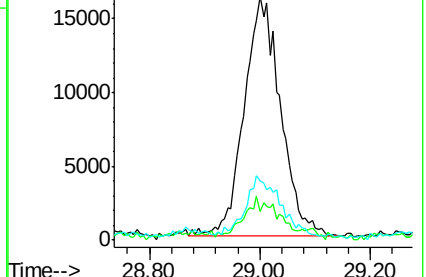
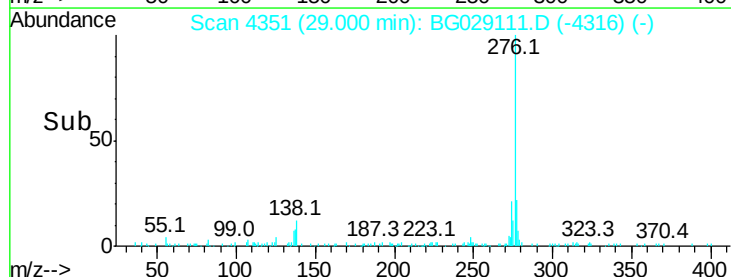
277 24.6 18.0 27.0

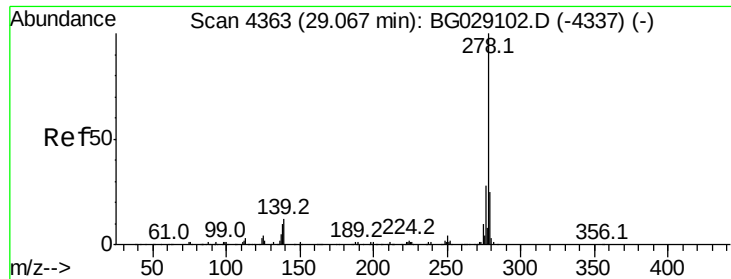


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#28

Dibenzo(a,h)anthracene

Concen: 1.025 ng/ul

RT: 29.06 min Scan# 4362

Delta R.T. -0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

Instrument :

BNA\_G

ClientSampleId :

DAHB7

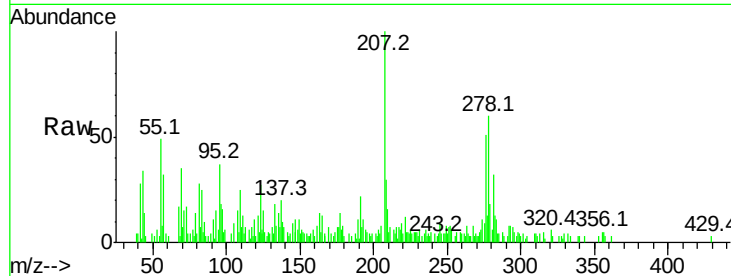
Tot Ion:278 Resp: 22365

Ion Ratio Lower Upper

278 100

139 11.2 12.2 18.4#

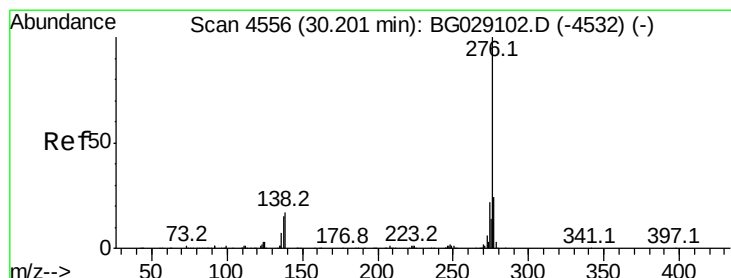
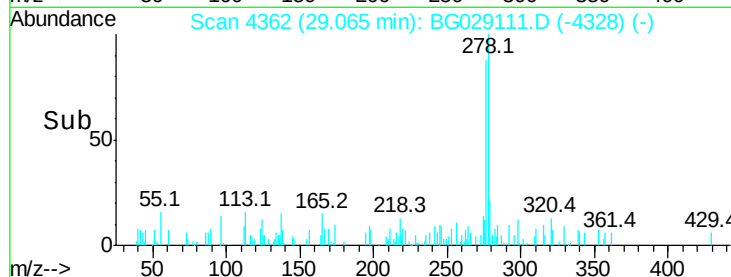
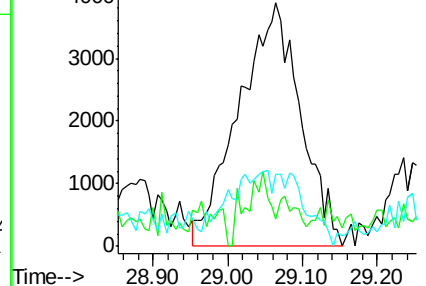
279 29.7 19.2 28.8#



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



#29

Benzo(g,h,i)perylene

Concen: 3.170 ng/ul

RT: 30.20 min Scan# 4556

Delta R.T. 0.00 min

Lab File: BG029111.D

Acq: 9 Oct 2017 17:17

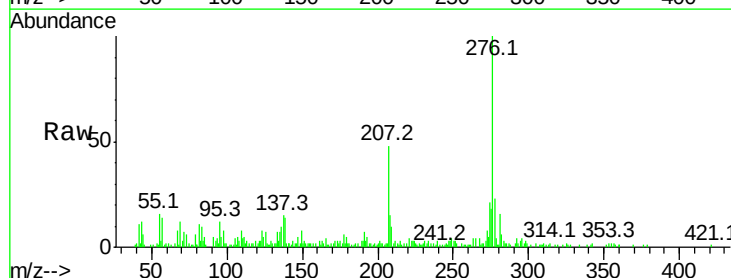
Tgt Ion:276 Resp: 68920

Ion Ratio Lower Upper

276 100

138 14.1 15.3 22.9#

277 23.0 19.0 28.4



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

