

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051817\  
 Data File : BG027022.D  
 Acq On : 19 May 2017 3:11  
 Operator : SJ/MA  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD02099

Quant Time: May 19 04:17:20 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 19 03:12:01 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.00  | 152  | 167981   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.80 | 136  | 816243   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.61 | 164  | 443278   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.35 | 188  | 853632   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.60 | 240  | 761272   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.76 | 264  | 758243   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                        |       |     |        |       |       |       |
|------------------------|-------|-----|--------|-------|-------|-------|
| 7) Acenaphthylene-d8   | 14.31 | 160 | 945303 | 20.79 | ng/ul | 0.00  |
| 10) Fluorene-d10       | 15.60 | 176 | 623192 | 20.55 | ng/ul | 0.00  |
| 14) Anthracene-d10     | 17.35 | 188 | 853632 | 20.51 | ng/ul | -0.10 |
| 18) Pyrene-d10         | 19.73 | 212 | 806293 | 20.28 | ng/ul | 0.00  |
| 25) Benzo(a)pyrene-d12 | 24.54 | 264 | 778591 | 20.67 | ng/ul | 0.00  |

## Target Compounds

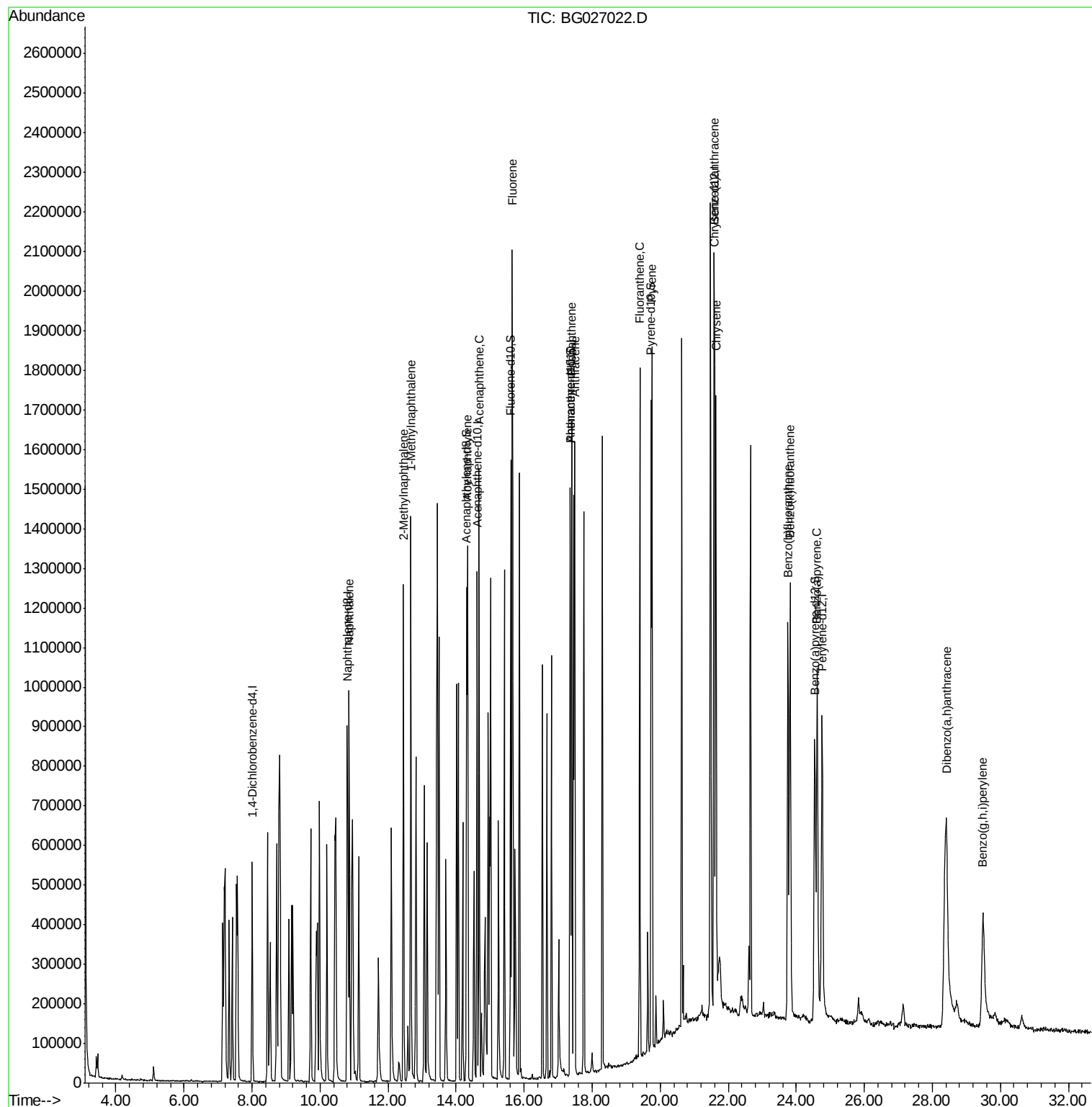
|                            |       |     |         |       |        | Qvalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 3) Naphthalene             | 10.85 | 128 | 863013  | 20.38 | ng/ul  | 98     |
| 4) 2-Methylnaphthalene     | 12.45 | 142 | 637308  | 20.31 | ng/ul  | 98     |
| 5) 1-Methylnaphthalene     | 12.67 | 142 | 691246  | 20.46 | ng/ul# | 95     |
| 8) Acenaphthylene          | 14.34 | 152 | 952601  | 20.85 | ng/ul  | 99     |
| 9) Acenaphthene            | 14.68 | 153 | 659054  | 21.07 | ng/ul  | 97     |
| 11) Fluorene               | 15.66 | 166 | 700348  | 21.01 | ng/ul  | 94     |
| 13) Phenanthrene           | 17.39 | 178 | 981819  | 20.57 | ng/ul  | 97     |
| 15) Anthracene             | 17.49 | 178 | 1019078 | 20.78 | ng/ul  | 98     |
| 16) Fluoranthene           | 19.40 | 202 | 1002083 | 20.54 | ng/ul# | 89     |
| 19) Pyrene                 | 19.76 | 202 | 1031537 | 20.73 | ng/ul# | 89     |
| 20) Benzo(a)anthracene     | 21.58 | 228 | 918906  | 20.03 | ng/ul  | 96     |
| 21) Chrysene               | 21.64 | 228 | 836938  | 19.88 | ng/ul  | 98     |
| 23) Benzo(b)fluoranthene   | 23.76 | 252 | 938101  | 20.82 | ng/ul# | 95     |
| 24) Benzo(k)fluoranthene   | 23.82 | 252 | 921199  | 19.87 | ng/ul# | 94     |
| 26) Benzo(a)pyrene         | 24.61 | 252 | 882576  | 20.02 | ng/ul# | 94     |
| 28) Dibenzo(a,h)anthracene | 28.42 | 278 | 681516  | 19.47 | ng/ul# | 91     |
| 29) Benzo(g,h,i)perylene   | 29.49 | 276 | 591676  | 18.35 | ng/ul# | 87     |

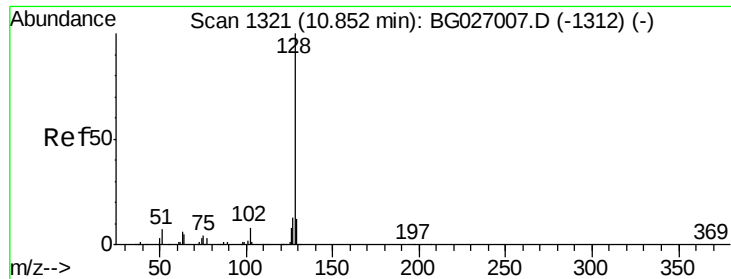
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051817\  
Data File : BG027022.D  
Acq On : 19 May 2017 3:11  
Operator : SJ/MA  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD02099

Quant Time: May 19 04:17:20 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 19 03:12:01 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 20.38 ng/ul

RT: 10.85 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

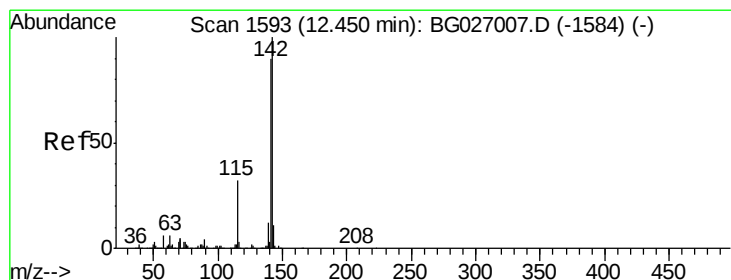
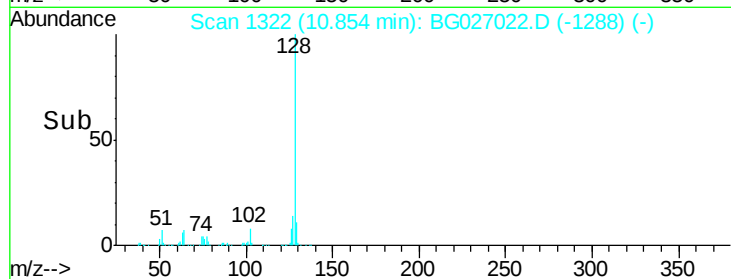
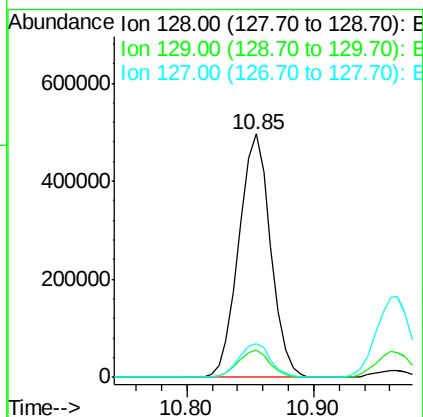
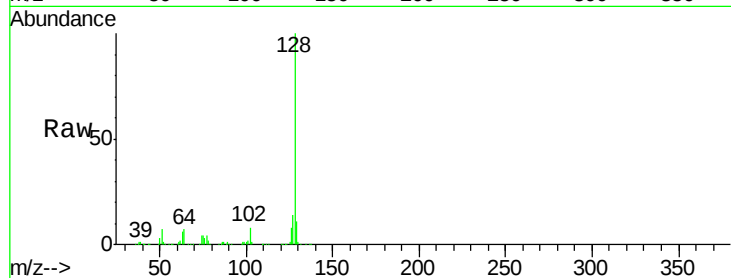
Tgt Ion:128 Resp: 863013

Ion Ratio Lower Upper

128 100

129 11.5 8.7 13.1

127 14.0 10.6 16.0



#4

2-Methylnaphthalene

Concen: 20.31 ng/ul

RT: 12.45 min Scan# 1594

Delta R.T. 0.00 min

Lab File: BG027022.D

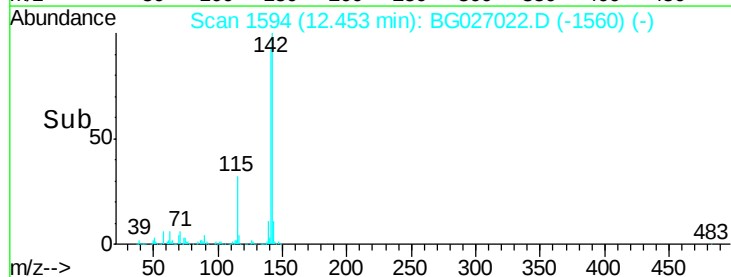
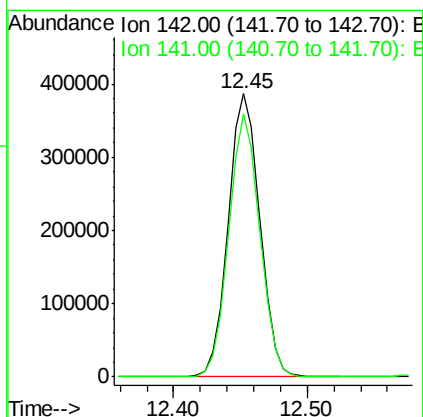
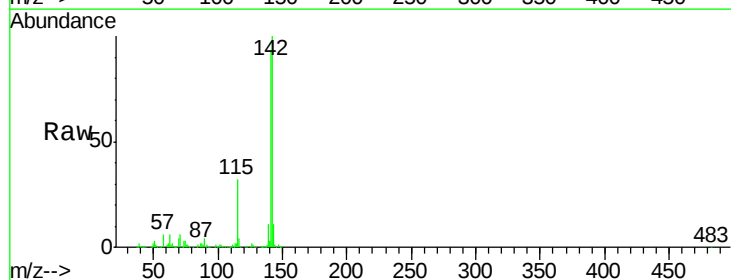
Acq: 19 May 2017 3:11

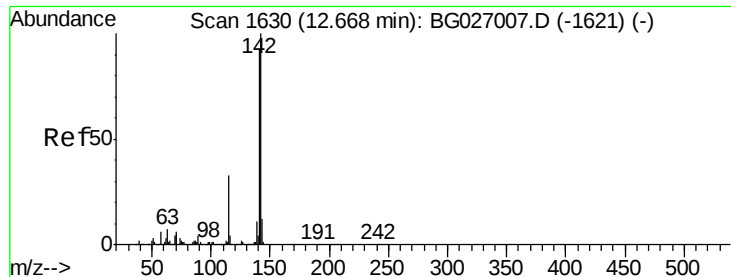
Tgt Ion:142 Resp: 637308

Ion Ratio Lower Upper

142 100

141 92.8 72.7 109.1





#5

1-Methylnaphthalene

Concen: 20.46 ng/ul

RT: 12.67 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

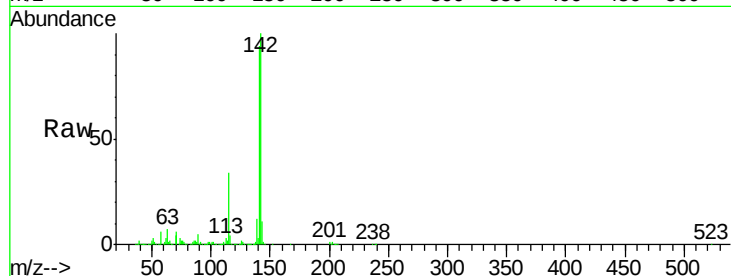
Tgt Ion:142 Resp: 691246

Ion Ratio Lower Upper

142 100

141 94.3 79.3 118.9

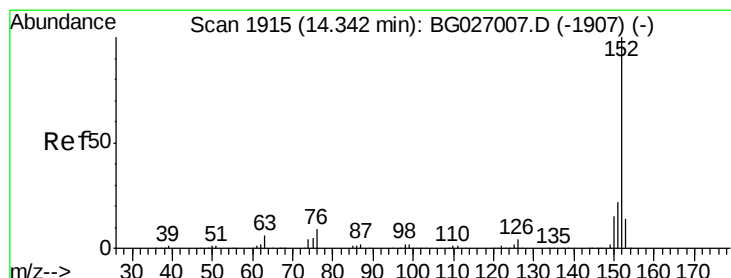
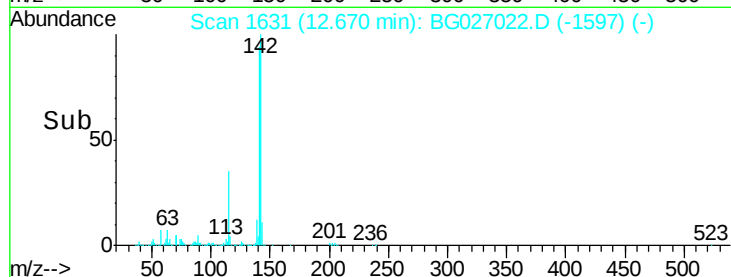
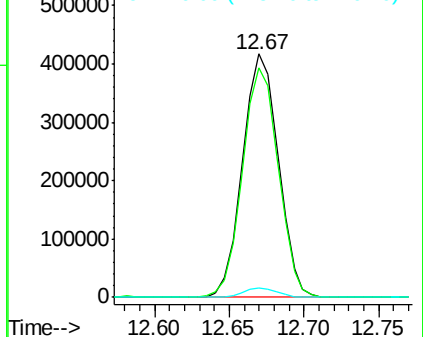
116 3.8 4.2 6.2#



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



#8

Acenaphthylene

Concen: 20.85 ng/ul

RT: 14.34 min Scan# 1915

Delta R.T. -0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

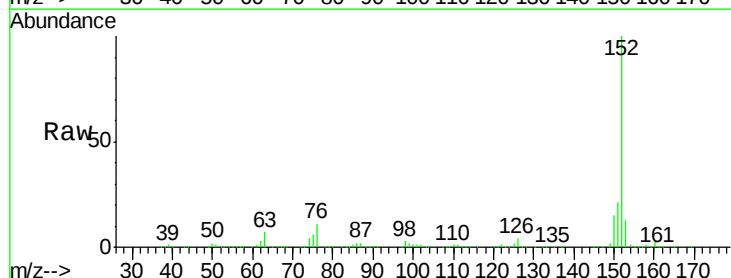
Tgt Ion:152 Resp: 952601

Ion Ratio Lower Upper

152 100

151 21.3 16.7 25.1

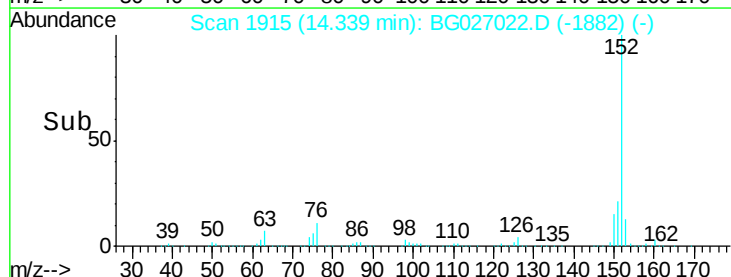
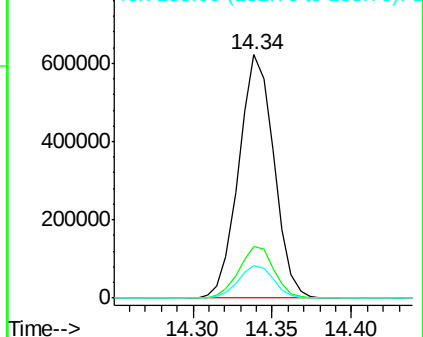
153 13.4 10.2 15.4

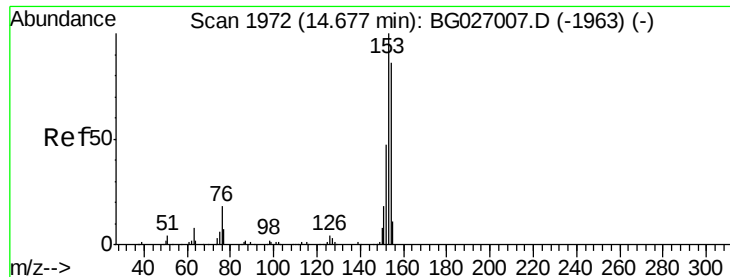


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 21.07 ng/ul

RT: 14.68 min Scan# 1973

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

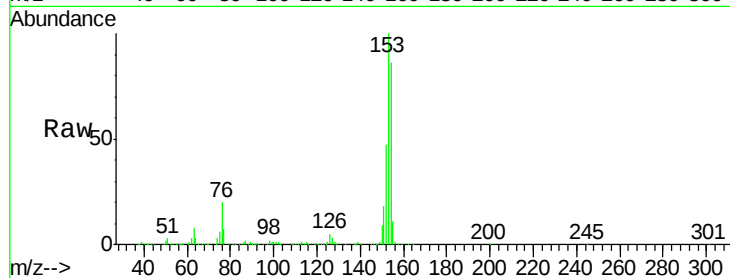
Tgt Ion:153 Resp: 659054

Ion Ratio Lower Upper

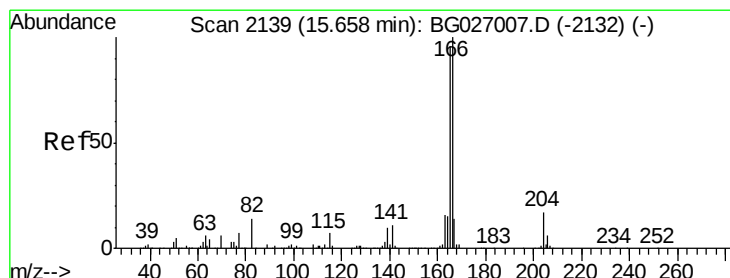
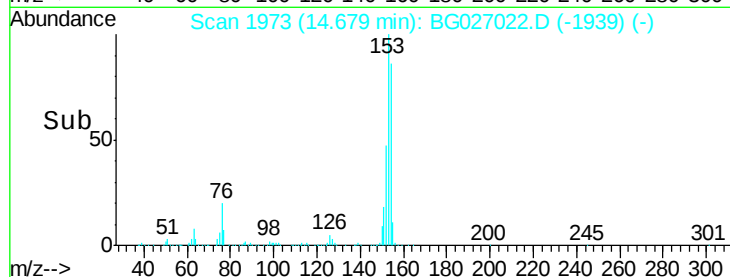
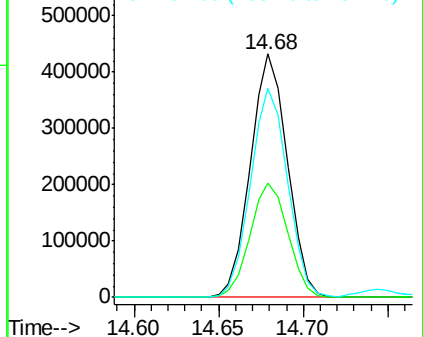
153 100

152 46.8 39.0 58.6

154 85.7 66.8 100.2



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: 21.01 ng/ul

RT: 15.66 min Scan# 2140

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

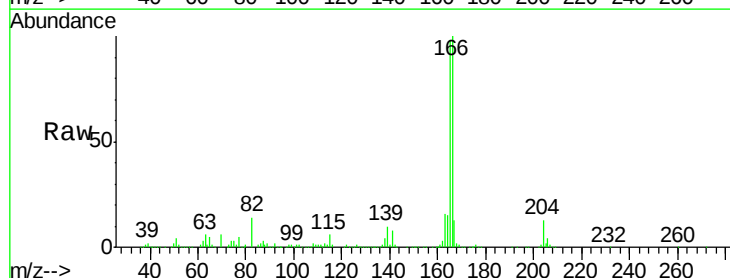
Tgt Ion:166 Resp: 700348

Ion Ratio Lower Upper

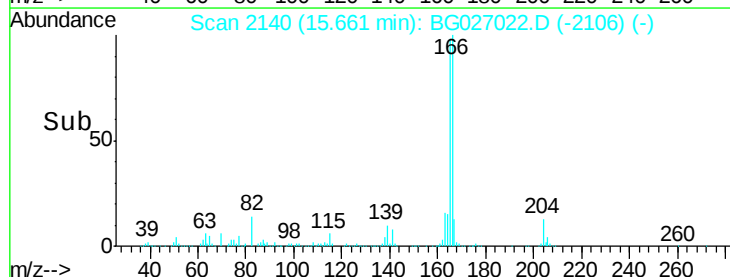
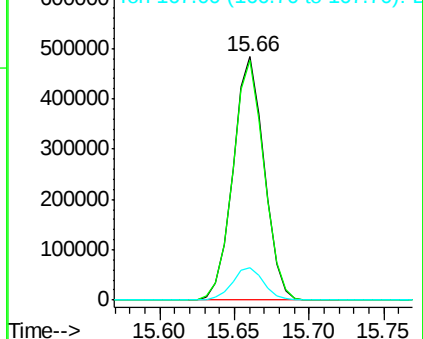
166 100

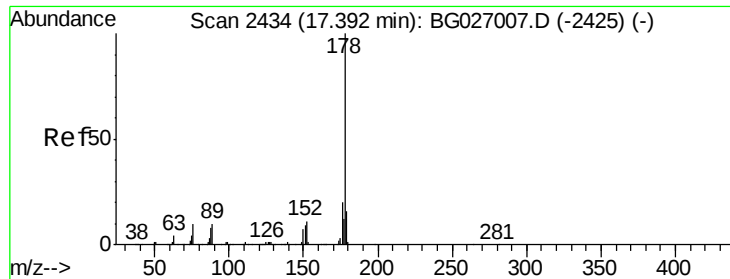
165 98.3 83.8 125.8

167 13.2 11.5 17.3



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





#13

Phenanthrene

Concen: 20.57 ng/ul

RT: 17.39 min Scan# 2435

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

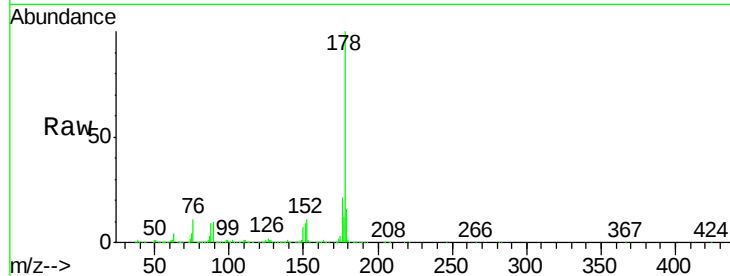
Tgt Ion:178 Resp: 981819

Ion Ratio Lower Upper

178 100

179 16.5 12.3 18.5

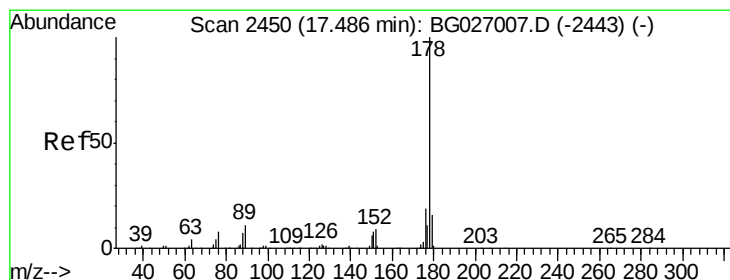
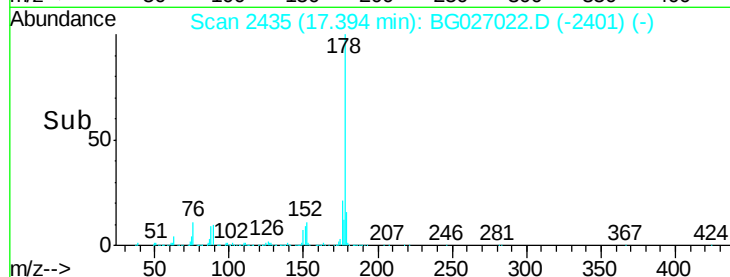
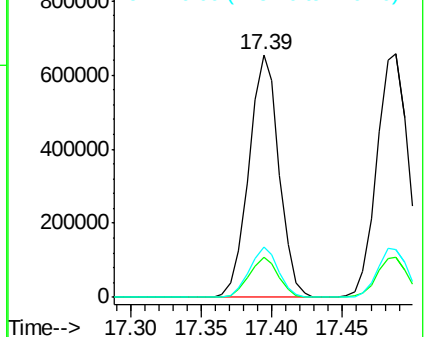
176 20.6 15.1 22.7



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: 20.78 ng/ul

RT: 17.49 min Scan# 2451

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

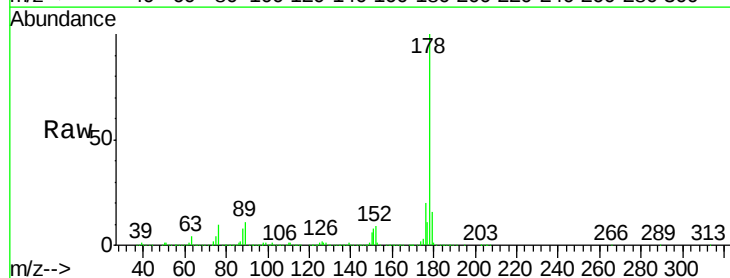
Tgt Ion:178 Resp: 1019078

Ion Ratio Lower Upper

178 100

179 16.3 11.8 17.8

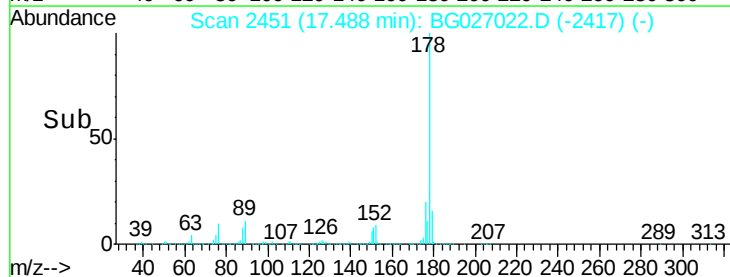
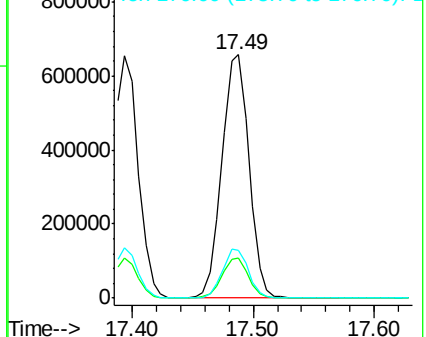
176 19.6 15.2 22.8

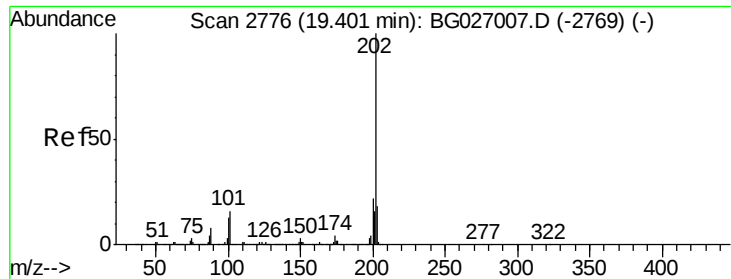


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#16

Fluoranthene

Concen: 20.54 ng/ul

RT: 19.40 min Scan# 2776

Delta R.T. -0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

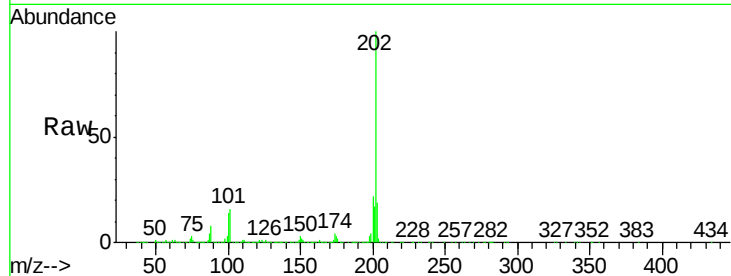
Tgt Ion:202 Resp: 1002083

Ion Ratio Lower Upper

202 100

101 16.1 9.9 14.9#

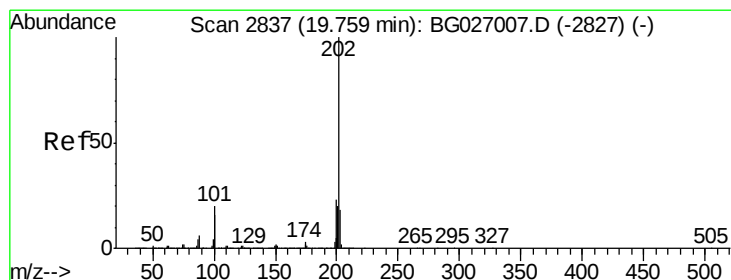
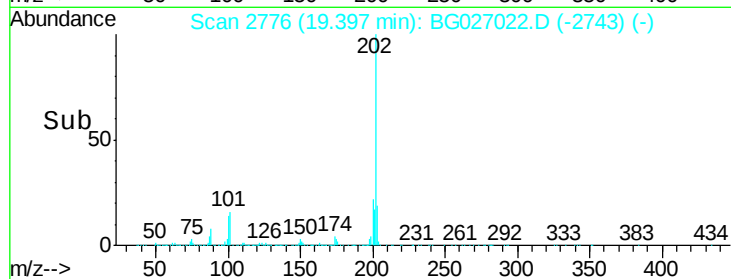
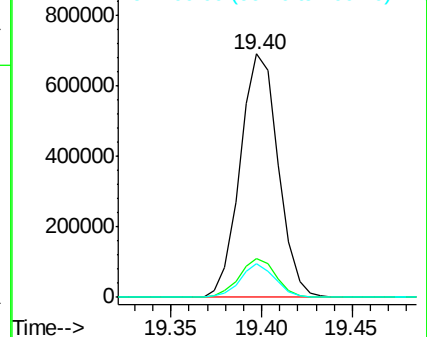
100 13.8 7.4 11.0#



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: 20.73 ng/ul

RT: 19.76 min Scan# 2838

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

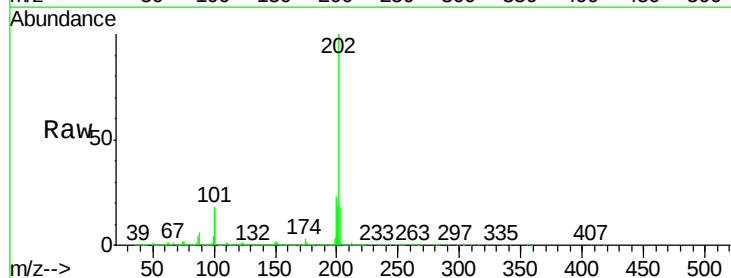
Tgt Ion:202 Resp: 1031537

Ion Ratio Lower Upper

202 100

101 17.7 11.0 16.4#

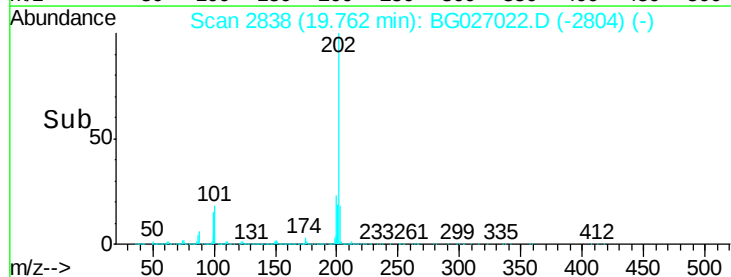
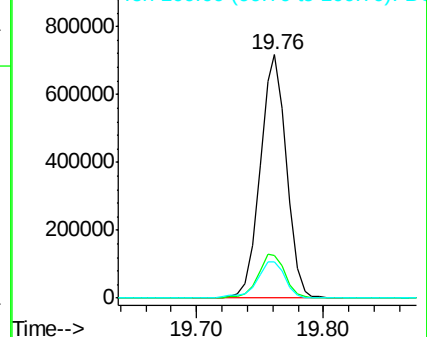
100 15.0 8.1 12.1#

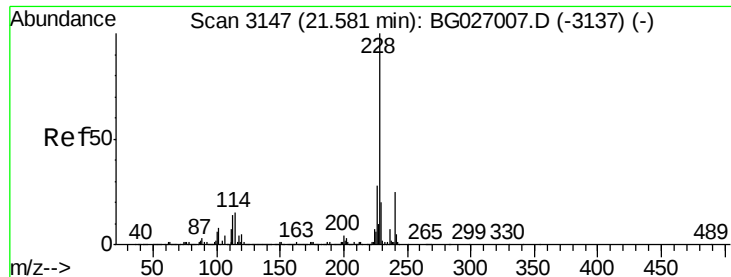


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#20

Benzo(a)anthracene

Concen: 20.03 ng/ul

RT: 21.58 min Scan# 3147

Delta R.T. -0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

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ClientSampleId :

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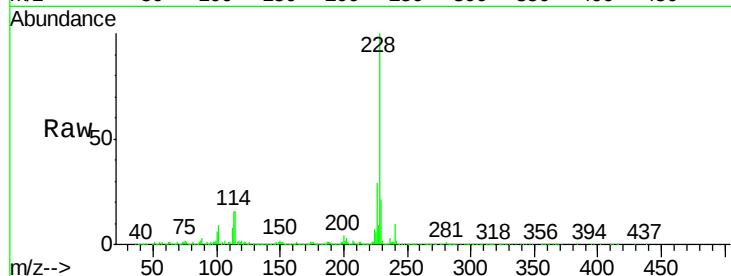
Tgt Ion:228 Resp: 918906

Ion Ratio Lower Upper

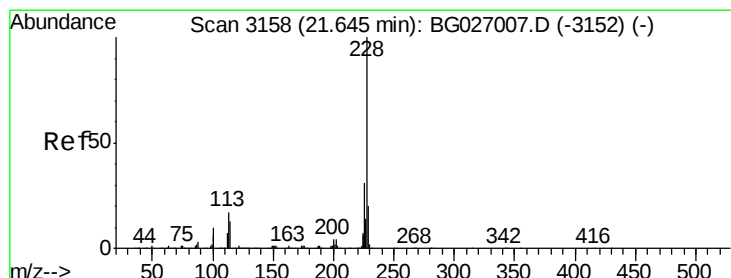
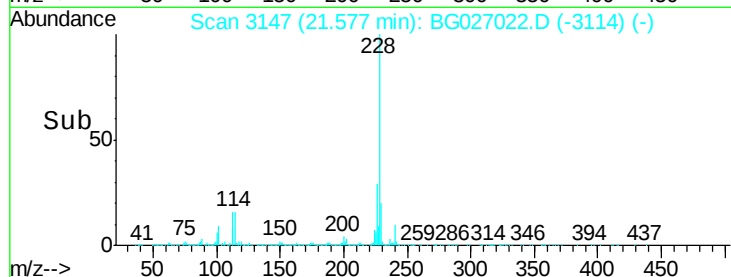
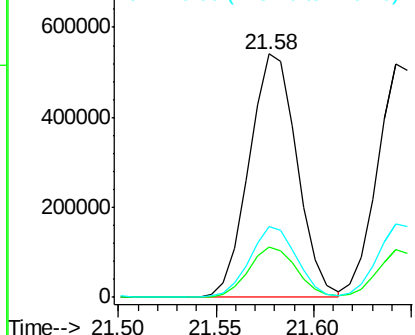
228 100

229 20.5 15.7 23.5

226 28.9 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: 19.88 ng/ul

RT: 21.64 min Scan# 3158

Delta R.T. -0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

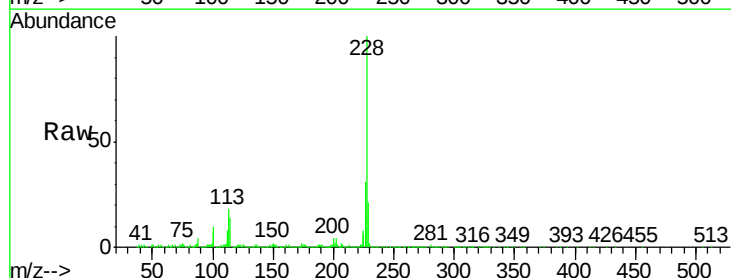
Tgt Ion:228 Resp: 836938

Ion Ratio Lower Upper

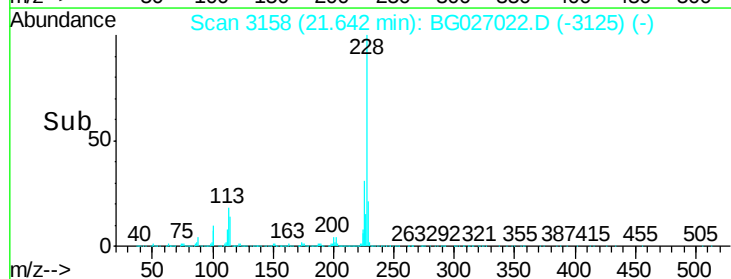
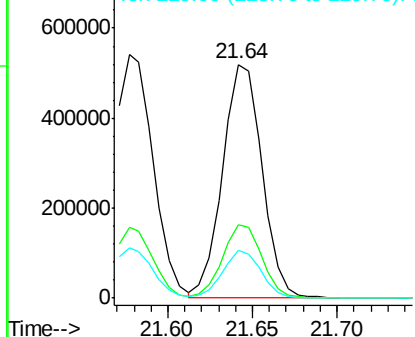
228 100

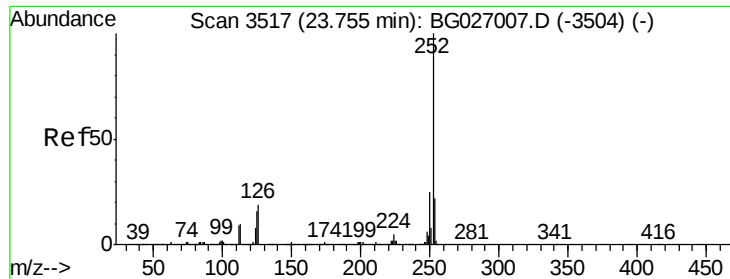
226 31.5 24.5 36.7

229 20.6 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: 20.82 ng/ul

RT: 23.76 min Scan# 3518

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

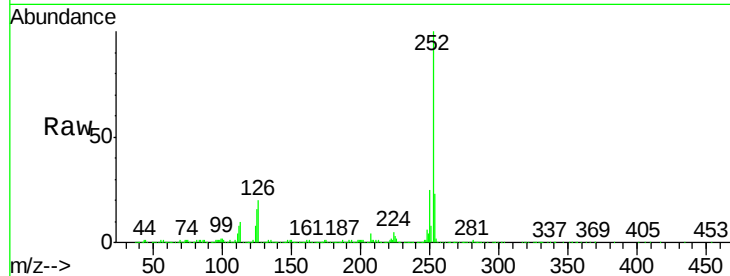
Tgt Ion:252 Resp: 938101

Ion Ratio Lower Upper

252 100

253 22.6 18.0 27.0

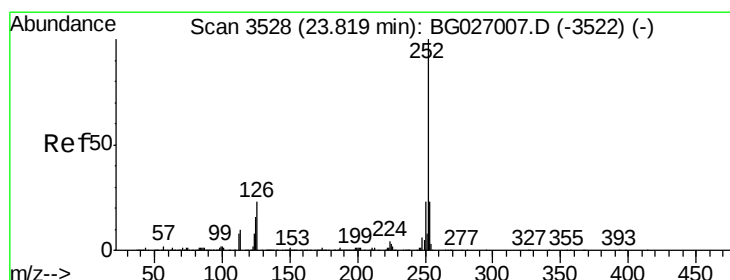
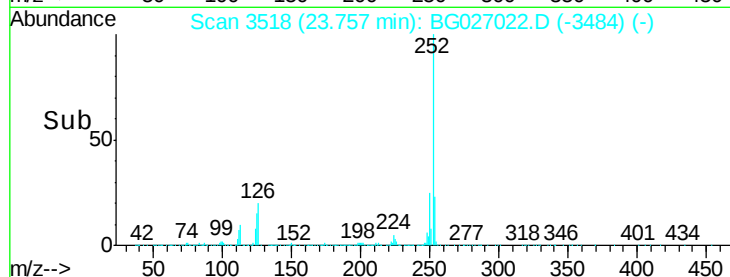
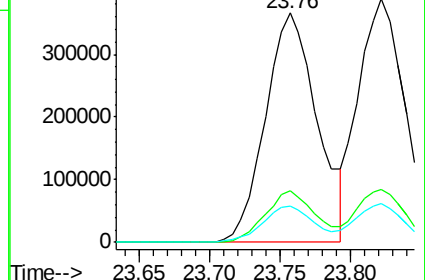
125 15.6 8.0 12.0#



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: 19.87 ng/ul

RT: 23.82 min Scan# 3529

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

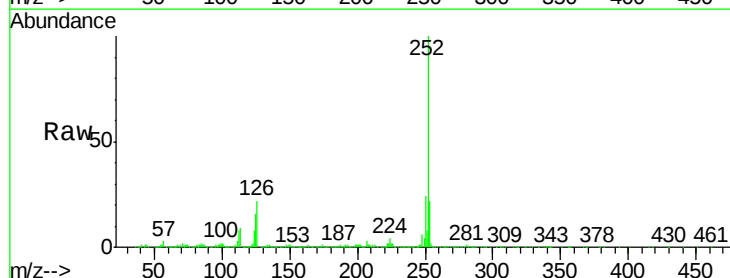
Tgt Ion:252 Resp: 921199

Ion Ratio Lower Upper

252 100

253 22.0 18.0 27.0

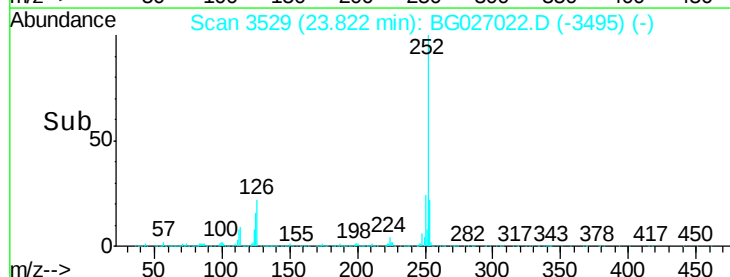
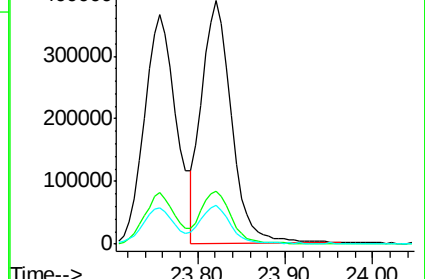
125 16.0 8.1 12.1#

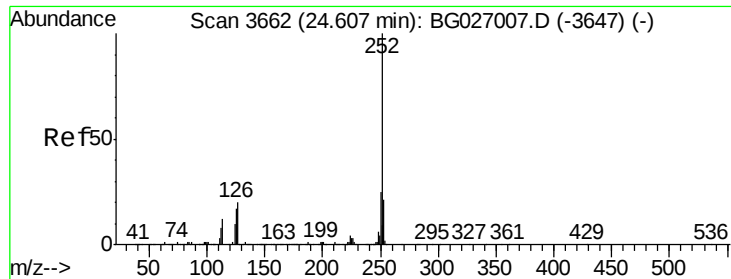


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 20.02 ng/ul

RT: 24.61 min Scan# 3664

Delta R.T. 0.01 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

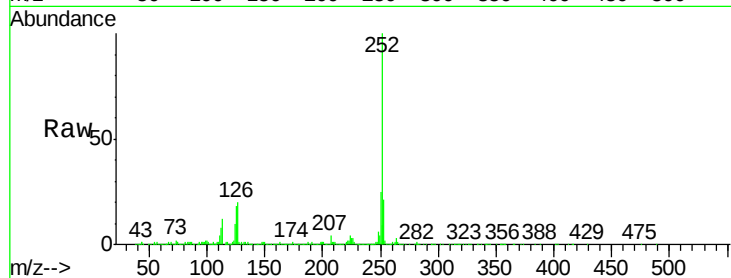
Tgt Ion:252 Resp: 882576

Ion Ratio Lower Upper

252 100

253 21.5 17.2 25.8

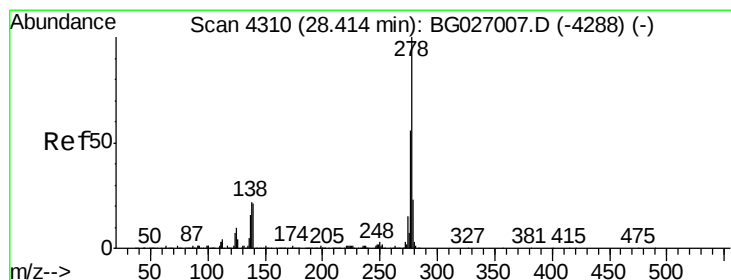
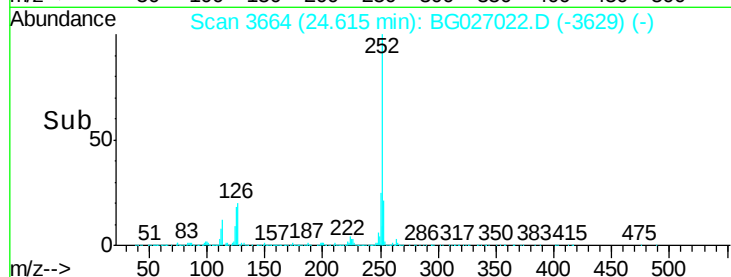
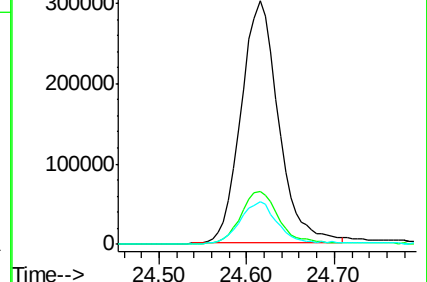
125 17.7 8.2 12.4#



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



#28

Dibenzo(a,h)anthracene

Concen: 19.47 ng/ul

RT: 28.42 min Scan# 4311

Delta R.T. 0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

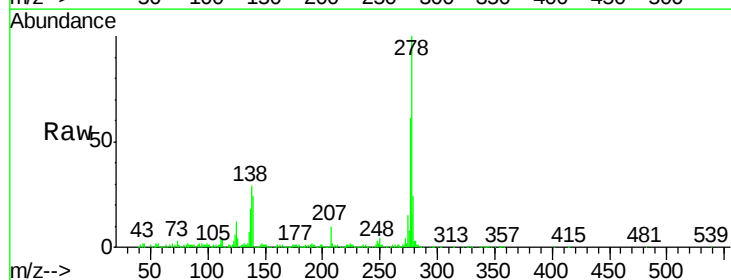
Tgt Ion:278 Resp: 681516

Ion Ratio Lower Upper

278 100

139 24.5 12.2 18.4#

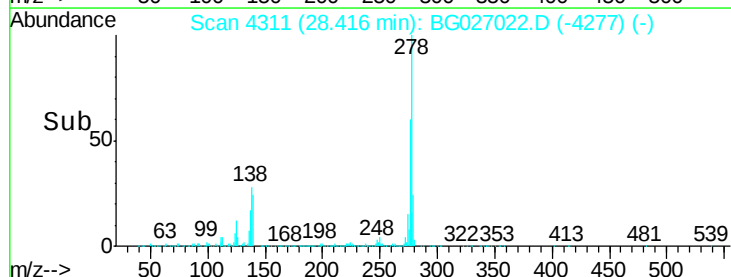
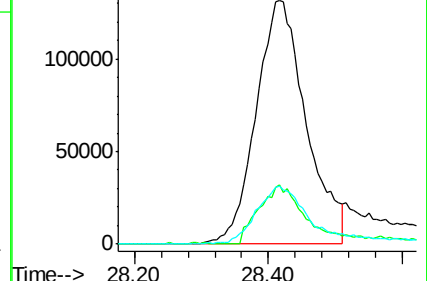
279 23.9 19.2 28.8

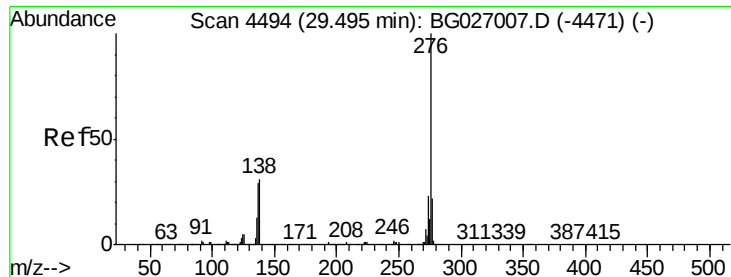


Abundance Ion 278.00 (277.70 to 278.70): E

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: 18.35 ng/ul

RT: 29.49 min Scan# 4494

Delta R.T. -0.00 min

Lab File: BG027022.D

Acq: 19 May 2017 3:11

Instrument :

BNA\_G

ClientSampleId :

SSTD02099

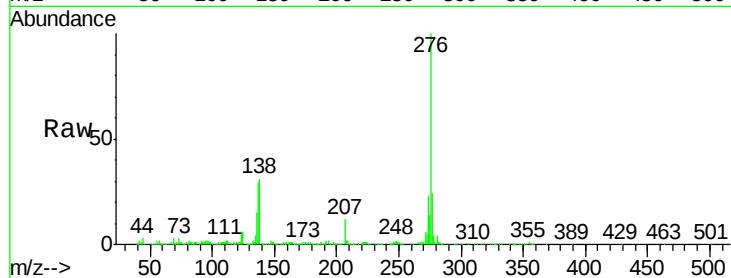
Tgt Ion: 276 Resp: 591676

Ion Ratio Lower Upper

276 100

138 31.5 15.3 22.9#

277 24.4 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

