

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\  
 Data File : BG021942.D  
 Acq On : 18 May 2016 21:16  
 Operator : UM/SJ  
 Sample : H3092-10  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XC4

Quant Time: May 19 03:10:09 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG051816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 19 03:03:18 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 24904    | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.98 | 136  | 135887   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.78 | 164  | 84952    | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.53 | 188  | 188505   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.81 | 240  | 160574   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 25.14 | 264  | 146213   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.54  | 96  | 2217   | 4.08  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 7.31  | 99  | 32759  | 14.90 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.48  | 67  | 22646  | 19.34 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.69  | 132 | 33619  | 18.62 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.87  | 113 | 12378  | 6.32  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 9.32  | 128 | 18669  | 19.58 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 10.06 | 143 | 19473  | 19.14 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.70 | 165 | 238    | 0.13  | ng/ul | 0.10 |
| 12) 4-Chloroaniline-d4         | 11.25 | 131 | 268    | 0.19  | ng/ul | 0.13 |
| 16) Dimethylphthalate-d6       | 14.24 | 166 | 1064   | 0.16  | ng/ul | 0.06 |
| 17) Acenaphthylene-d8          | 14.48 | 160 | 181602 | 21.52 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.99 | 143 | 3342   | 2.90  | ng/ul | 0.01 |
| 21) Fluorene-d10               | 15.77 | 176 | 125382 | 21.27 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.89 | 200 | 11505  | 12.30 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.63 | 188 | 174026 | 20.04 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.90 | 212 | 191806 | 22.64 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 24.90 | 264 | 139592 | 21.50 | ng/ul | 0.00 |

## Target Compounds

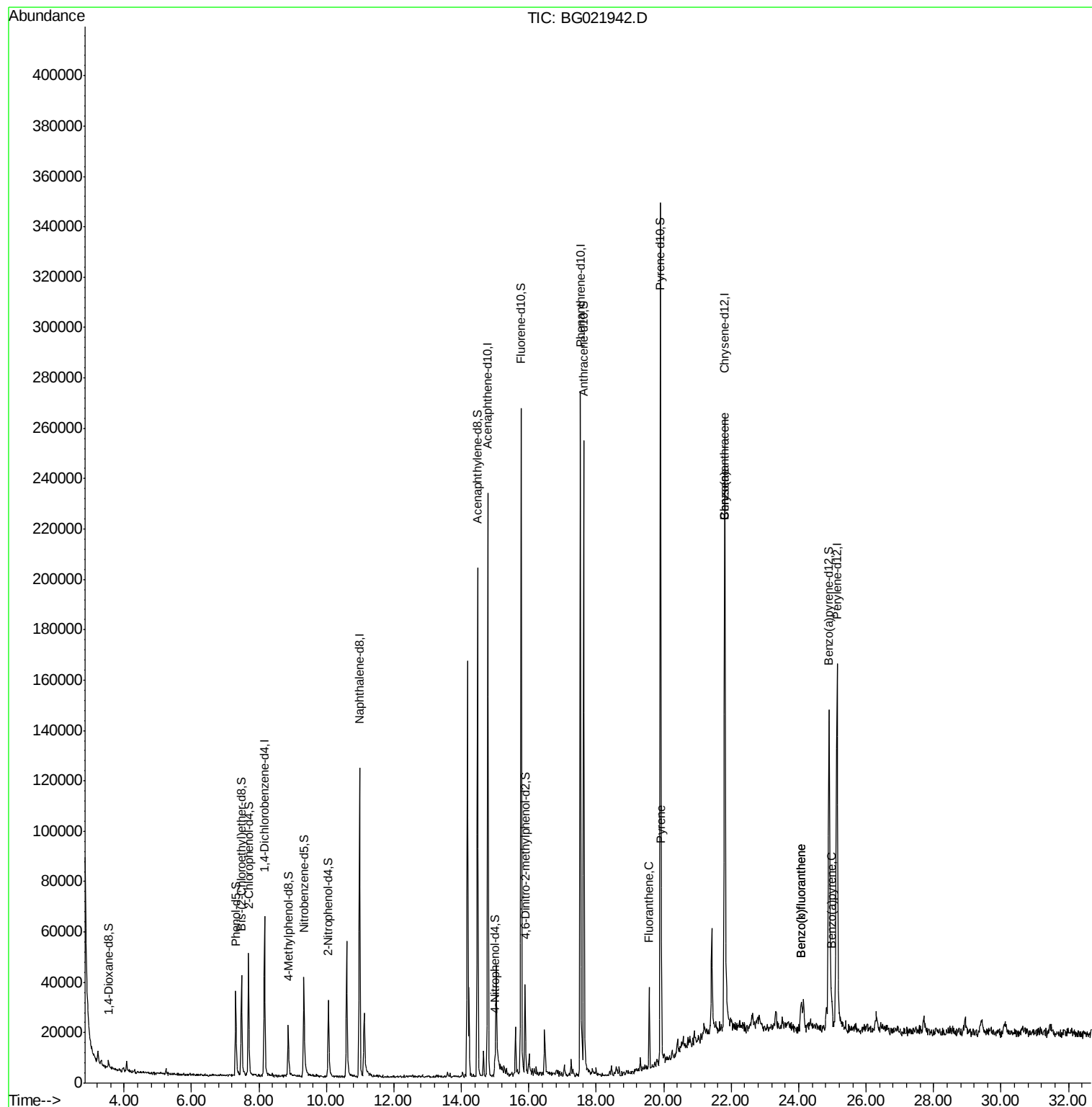
|                          |       |     |       |      |        | Ovalue |
|--------------------------|-------|-----|-------|------|--------|--------|
| 28) Fluoranthene         | 19.57 | 202 | 22521 | 2.15 | ng/ul# | 92     |
| 31) Pyrene               | 19.93 | 202 | 20968 | 1.90 | ng/ul# | 95     |
| 32) Benzo(a)anthracene   | 21.79 | 228 | 11590 | 1.30 | ng/ul  | 97     |
| 33) Chrysene             | 21.79 | 228 | 11590 | 1.34 | ng/ul  | 99     |
| 35) Benzo(b)fluoranthene | 24.07 | 252 | 11443 | 1.36 | ng/ul# | 82     |
| 36) Benzo(k)fluoranthene | 24.07 | 252 | 11443 | 1.38 | ng/ul# | 82     |
| 38) Benzo(a)pyrene       | 24.97 | 252 | 8931  | 1.11 | ng/ul# | 88     |

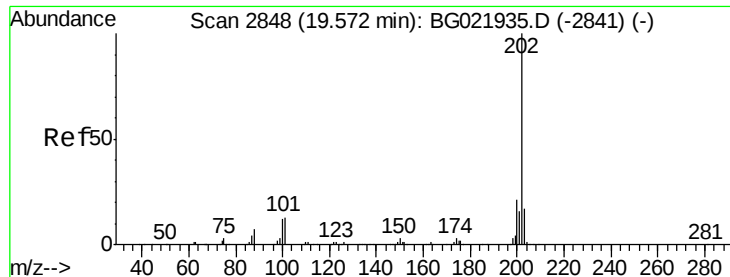
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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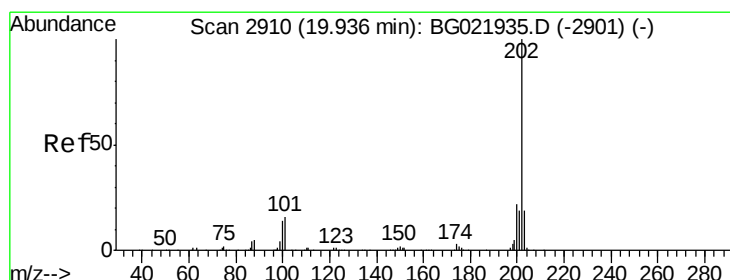
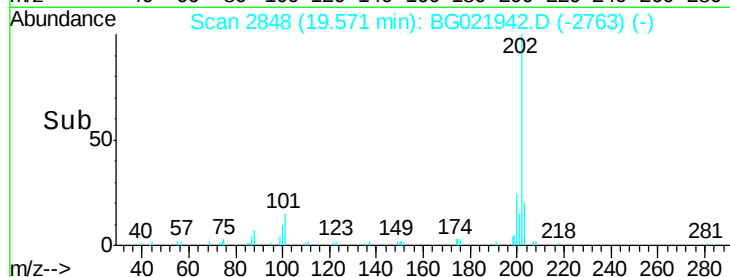
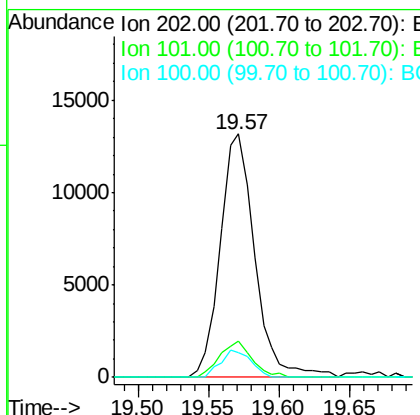
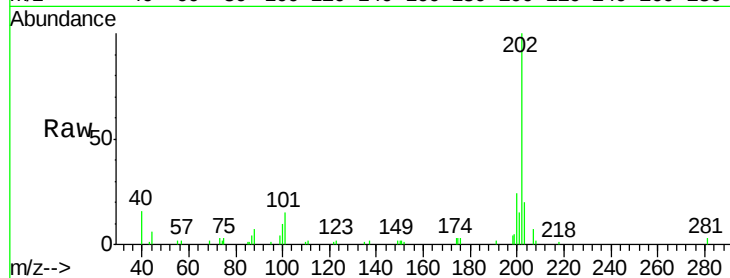




#28  
**Fluoranthene**  
 Concen: 2.15 ng/ul  
 RT: 19.57 min Scan# 2848  
 Delta R.T. -0.00 min  
 Lab File: BG021942.D  
 Acq: 18 May 2016 21:16

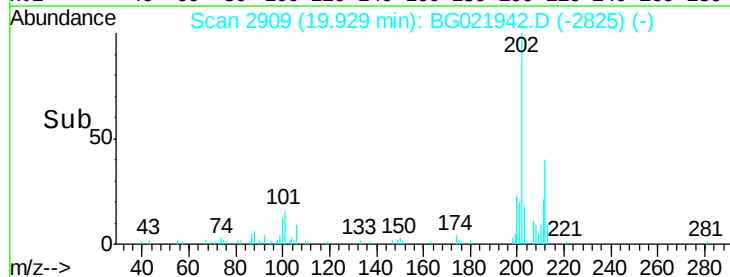
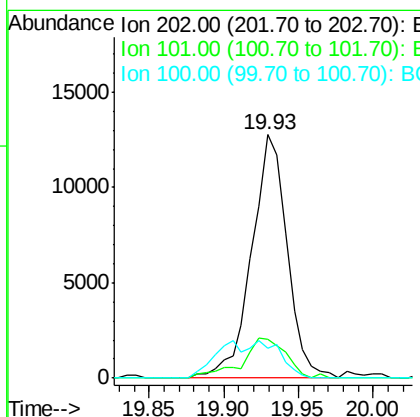
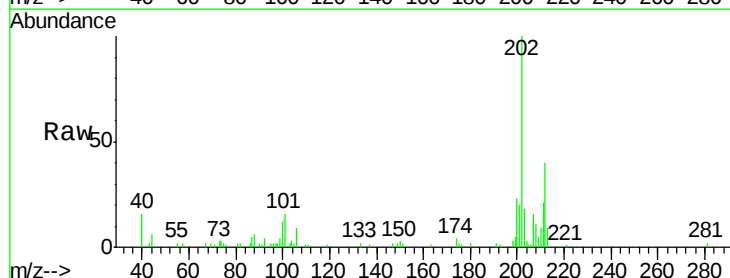
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XC4

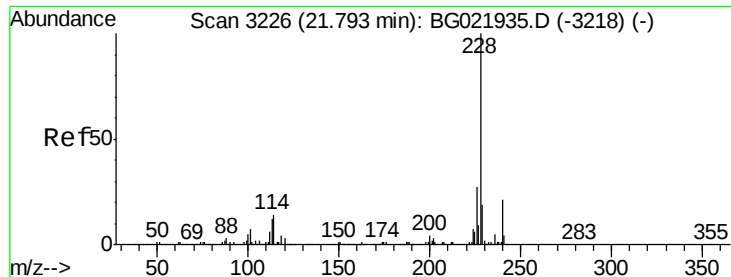
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.9  | 8.9   | 13.3# |
| 100     | 10.3  | 7.0   | 10.4  |



#31  
**Pyrene**  
 Concen: 1.90 ng/ul  
 RT: 19.93 min Scan# 2909  
 Delta R.T. -0.01 min  
 Lab File: BG021942.D  
 Acq: 18 May 2016 21:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.8  | 9.8   | 14.8# |
| 100     | 12.2  | 9.3   | 13.9  |





#32

Benzo(a)anthracene

Concen: 1.30 ng/ul

RT: 21.79 min Scan# 3226

Delta R.T. -0.00 min

Lab File: BG021942.D

Acq: 18 May 2016 21:16

Instrument :

BNA\_G

ClientSampleId :

D9XC4

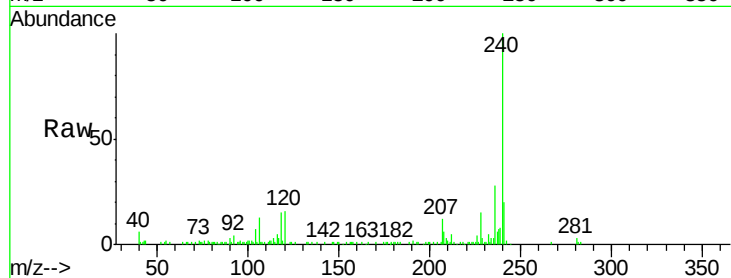
Tot Ion:228 Resp: 11590

Ion Ratio Lower Upper

228 100

229 21.1 16.6 25.0

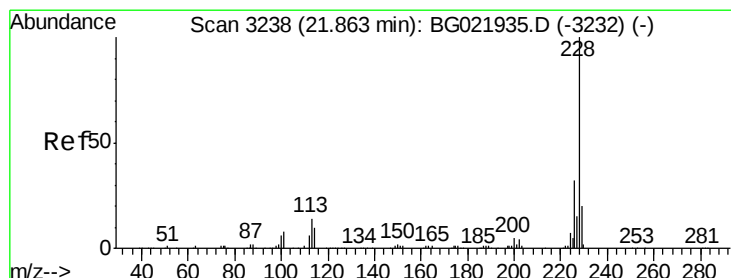
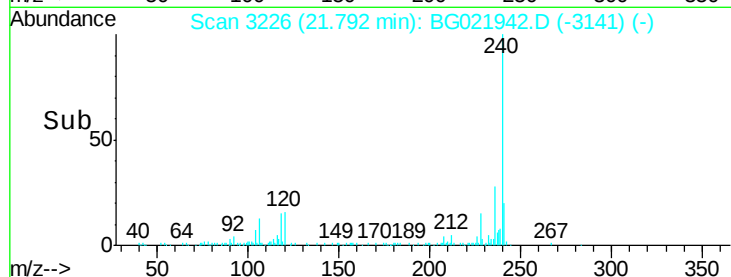
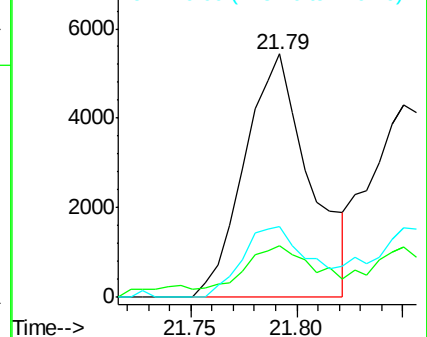
226 28.8 21.0 31.4



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



#33

Chrysene

Concen: 1.34 ng/ul

RT: 21.79 min Scan# 3226

Delta R.T. -0.07 min

Lab File: BG021942.D

Acq: 18 May 2016 21:16

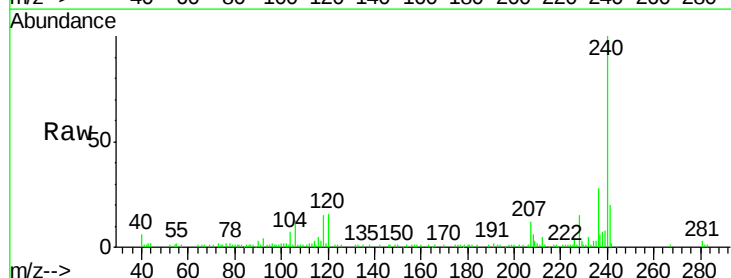
Tgt Ion:228 Resp: 11590

Ion Ratio Lower Upper

228 100

226 28.8 23.4 35.2

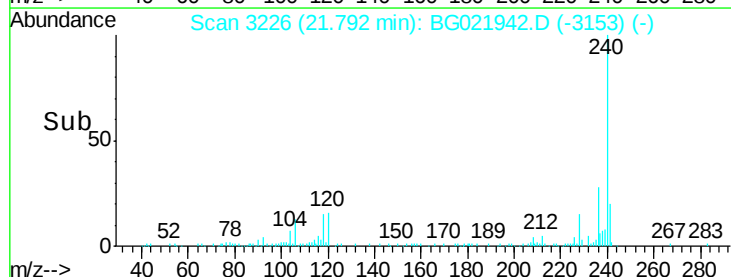
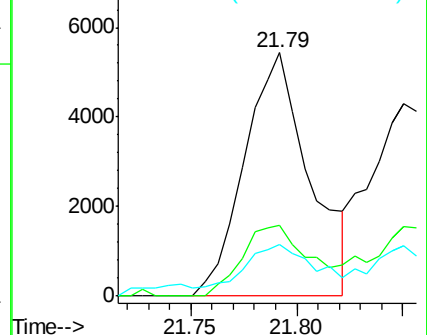
229 21.1 16.2 24.2

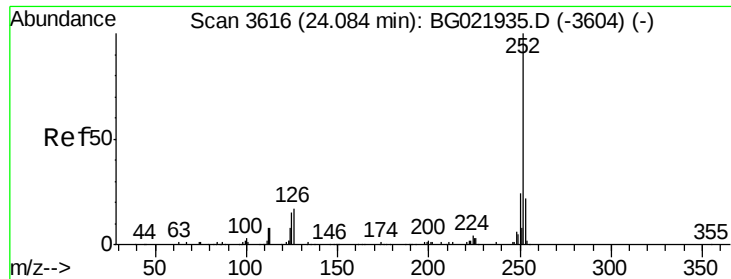


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#35

Benzo(b)fluoranthene

Concen: 1.36 ng/ul

RT: 24.07 min Scan# 3614

Delta R.T. -0.01 min

Lab File: BG021942.D

Acq: 18 May 2016 21:16

Instrument :

BNA\_G

ClientSampleId :

D9XC4

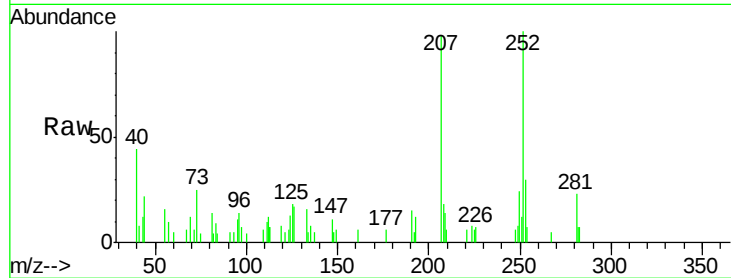
Tot Ion:252 Resp: 11443

Ion Ratio Lower Upper

252 100

253 30.3 18.1 27.1#

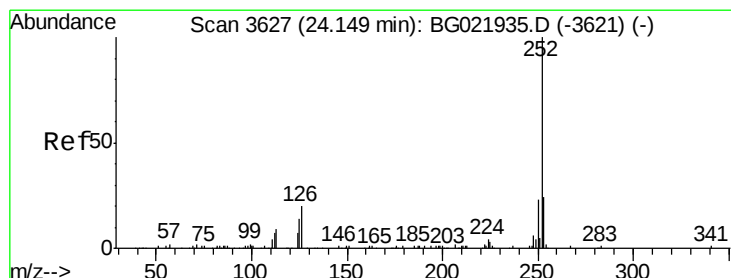
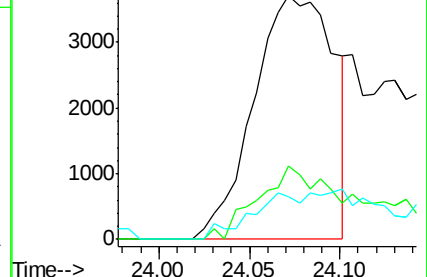
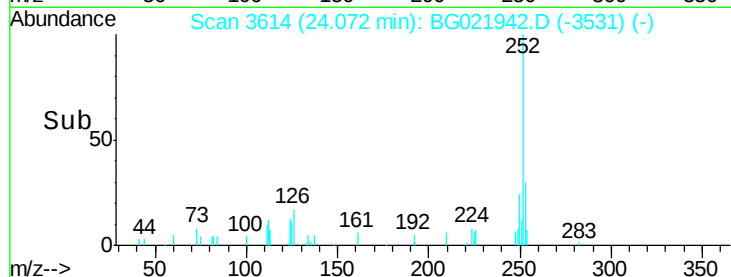
125 17.7 7.6 11.4#



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



#36

Benzo(k)fluoranthene

Concen: 1.38 ng/ul

RT: 24.07 min Scan# 3614

Delta R.T. -0.08 min

Lab File: BG021942.D

Acq: 18 May 2016 21:16

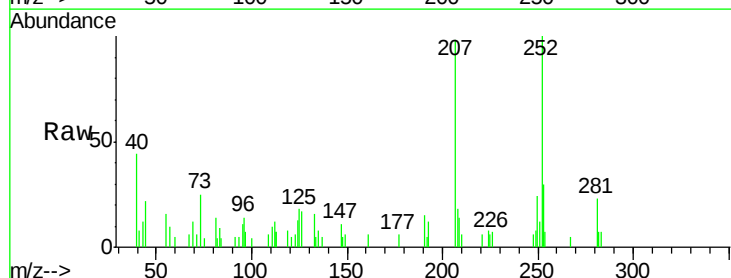
Tgt Ion:252 Resp: 11443

Ion Ratio Lower Upper

252 100

253 30.3 17.8 26.8#

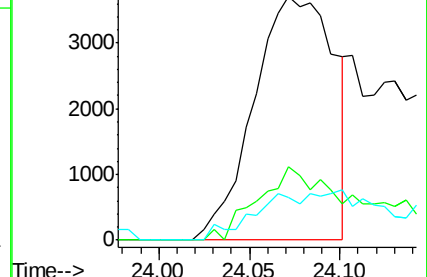
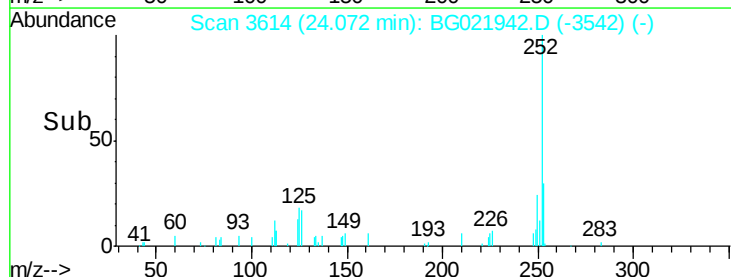
125 17.7 7.7 11.5#

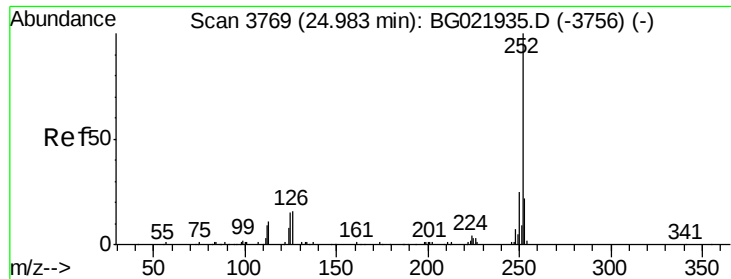


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 1.11 ng/ul

RT: 24.97 min Scan# 3767

Delta R.T. -0.01 min

Lab File: BG021942.D

Acq: 18 May 2016 21:16

Instrument :

BNA\_G

ClientSampleId :

D9XC4

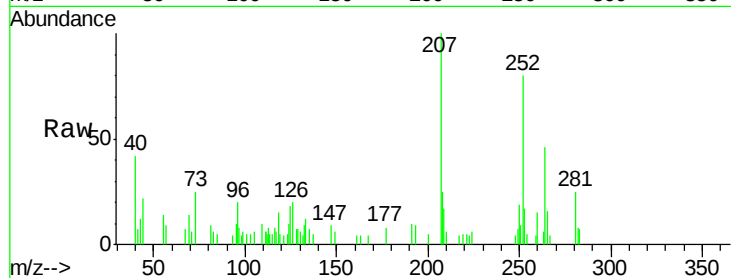
Tot Ion: 252 Resp: 8931

Ion Ratio Lower Upper

252 100

253 21.0 17.4 26.0

125 22.7 8.2 12.2#



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

