

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102417\  
 Data File : BG029421.D  
 Acq On : 24 Oct 2017 12:42  
 Operator : SJ/JU  
 Sample : I5925-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Oct 24 14:23:47 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Oct 17 07:42:23 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 66878    | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.98 | 136  | 322030   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.78 | 164  | 219615   | 20.00 | ng/ul | -0.01    |
| 61) Phenanthrene-d10      | 17.52 | 188  | 516785   | 20.00 | ng/ul | -0.01    |
| 75) Chrysene-d12          | 21.80 | 240  | 549570   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.10 | 264  | 563738   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.55  | 96  | 8825   | 5.36  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.31  | 99  | 173971 | 27.10 | ng/ul | -0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.48  | 67  | 98196  | 24.45 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.69  | 132 | 133998 | 29.59 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.86  | 113 | 150587 | 29.05 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 9.33  | 128 | 66350  | 28.70 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 10.06 | 143 | 80208  | 33.86 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.60 | 165 | 157791 | 29.23 | ng/ul | -0.01 |
| 29) 4-Chloroaniline-d4         | 11.11 | 131 | 170657 | 27.21 | ng/ul | -0.01 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 510222 | 27.17 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 637182 | 27.91 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.97 | 143 | 65367  | 18.86 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.77 | 176 | 463782 | 30.16 | ng/ul | -0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.88 | 200 | 60296  | 23.90 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.62 | 188 | 674576 | 27.60 | ng/ul | -0.01 |
| 76) Pyrene-d10                 | 19.89 | 212 | 781983 | 27.49 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 24.88 | 264 | 764655 | 28.64 | ng/ul | -0.01 |

## Target Compounds

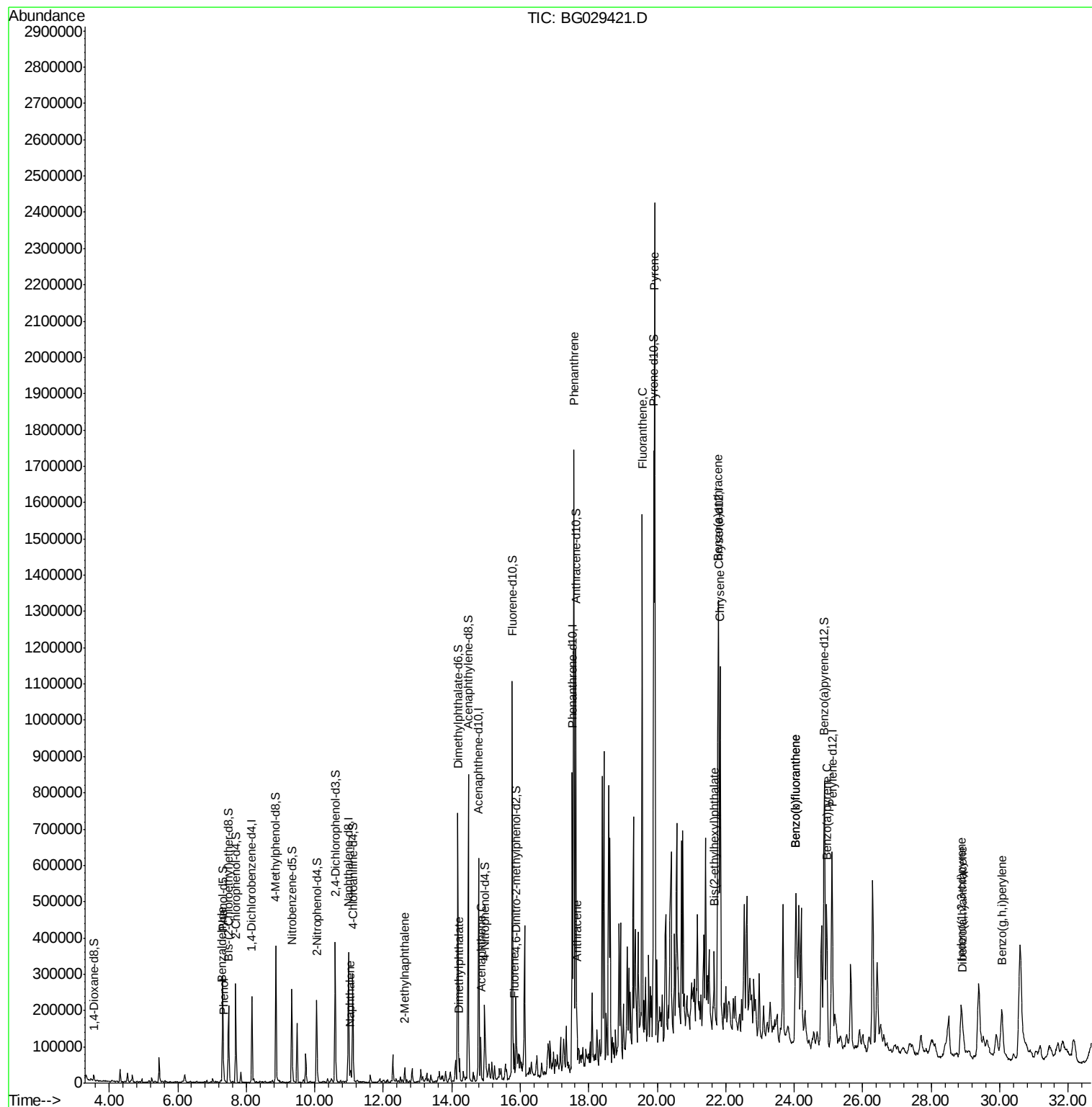
|                                |       |     |         |              | Ovalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 4) Benzaldehyde                | 7.29  | 77  | 4468    | 1.127 ng/ul# | 78     |
| 6) Phenol                      | 7.34  | 94  | 10211   | 1.537 ng/ul  | 95     |
| 28) Naphthalene                | 11.03 | 128 | 20110   | 1.180 ng/ul  | 98     |
| 34) 2-Methylnaphthalene        | 12.62 | 142 | 19294   | 1.368 ng/ul  | 96     |
| 44) Dimethylphthalate          | 14.22 | 163 | 42378   | 2.314 ng/ul# | 98     |
| 49) Acenaphthene               | 14.84 | 153 | 46431   | 2.914 ng/ul  | 93     |
| 58) Fluorene                   | 15.83 | 166 | 43804   | 2.520 ng/ul  | 95     |
| 69) Phenanthrene               | 17.56 | 178 | 1069321 | 38.276 ng/ul | 97     |
| 71) Anthracene                 | 17.65 | 178 | 111300  | 3.861 ng/ul  | 98     |
| 74) Fluoranthene               | 19.56 | 202 | 901224  | 28.865 ng/ul | 100    |
| 77) Pyrene                     | 19.93 | 202 | 1441679 | 39.141 ng/ul | 98     |
| 80) Benzo(a)anthracene         | 21.77 | 228 | 663687  | 19.270 ng/ul | 97     |
| 81) Bis(2-ethylhexyl)phthalate | 21.67 | 149 | 76230   | 3.522 ng/ul# | 98     |
| 82) Chrysene                   | 21.84 | 228 | 734900  | 23.484 ng/ul | 98     |
| 85) Benzo(b)fluoranthene       | 24.05 | 252 | 550578  | 16.269 ng/ul | 98     |
| 86) Benzo(k)fluoranthene       | 24.05 | 252 | 550578  | 16.826 ng/ul | 99     |
| 88) Benzo(a)pyrene             | 24.95 | 252 | 436518  | 13.251 ng/ul | 98     |
| 89) Indeno(1,2,3-cd)pyrene     | 28.88 | 276 | 243040  | 6.521 ng/ul  | 97     |
| 90) Dibenzo(a,h)anthracene     | 28.91 | 278 | 41044   | 1.326 ng/ul  | 99     |
| 91) Benzo(g,h,i)perylene       | 30.06 | 276 | 277606  | 8.986 ng/ul  | 94     |

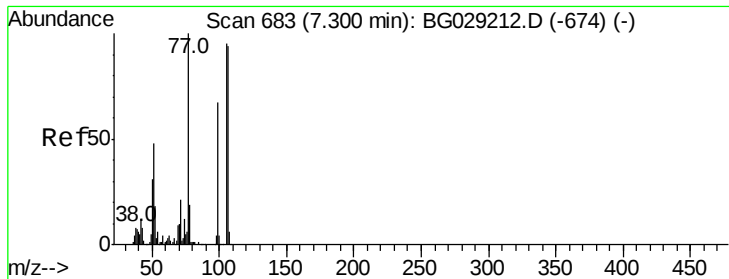
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102417\  
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Operator : SJ/JU  
Sample : I5925-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampled :

Quant Time: Oct 24 14:23:47 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101417.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Oct 17 07:42:23 2017  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 1.127 ng/ul

RT: 7.29 min Scan# 682

Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

Instrument :

BNA\_G

ClientSampleId :

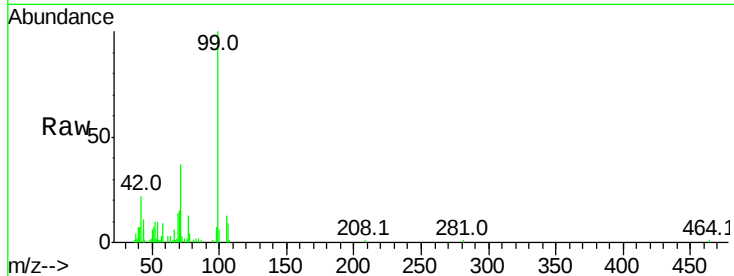
Tot Ion: 77 Resp: 4468

Ion Ratio Lower Upper

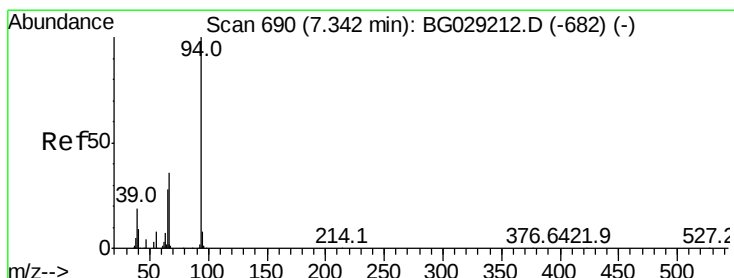
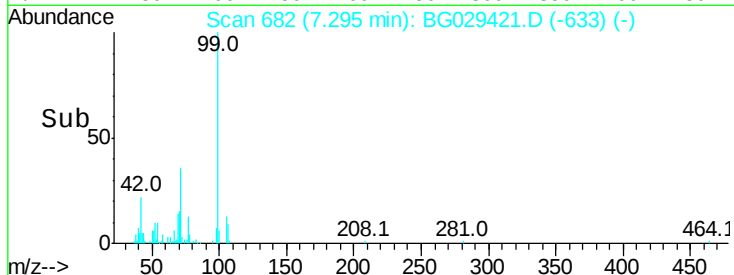
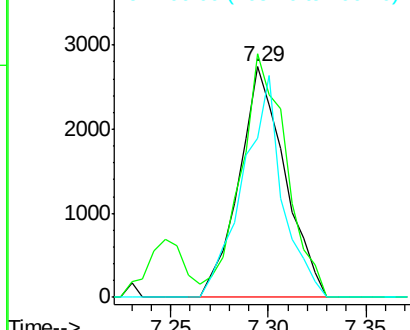
77 100

105 105.6 70.5 105.7

106 69.0 74.1 111.1#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC



#6

Phenol

Concen: 1.537 ng/ul

RT: 7.34 min Scan# 690

Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

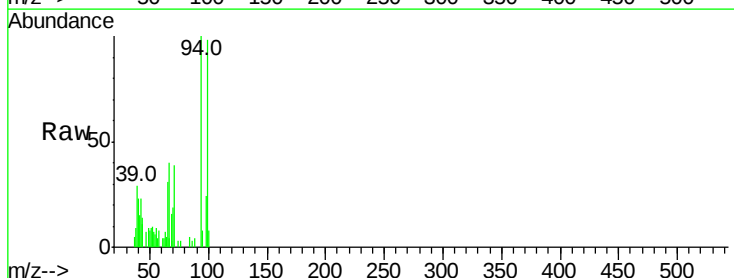
Tgt Ion: 94 Resp: 10211

Ion Ratio Lower Upper

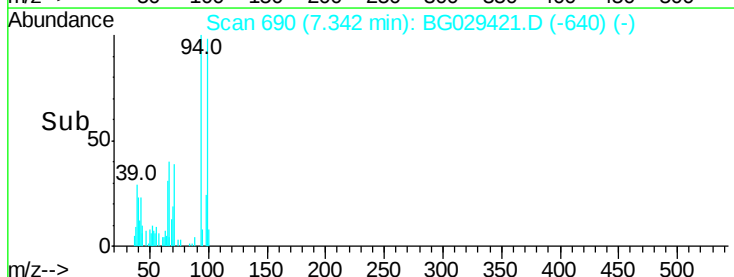
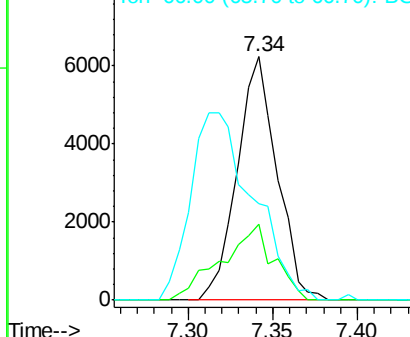
94 100

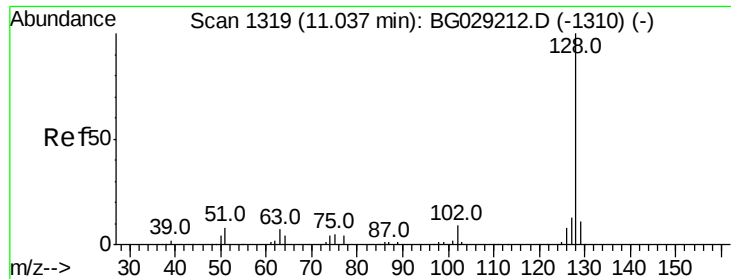
65 31.1 27.1 40.7

66 39.6 34.6 52.0



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

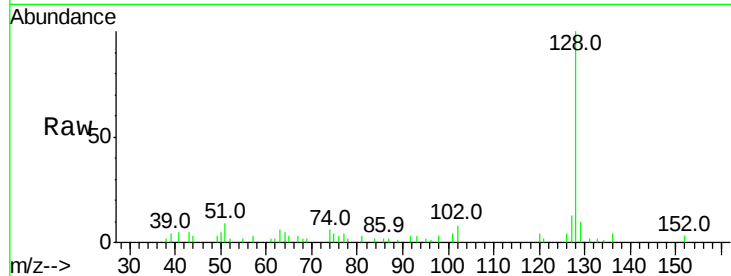




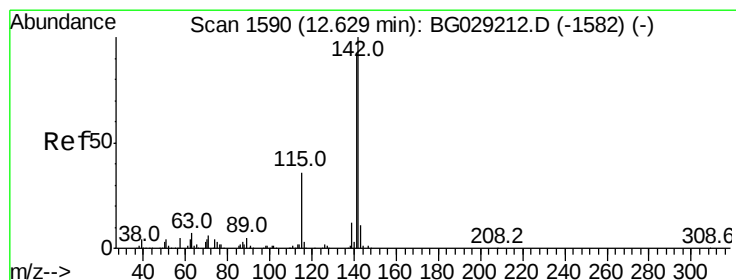
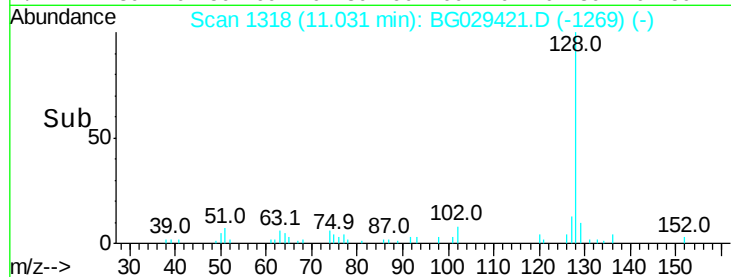
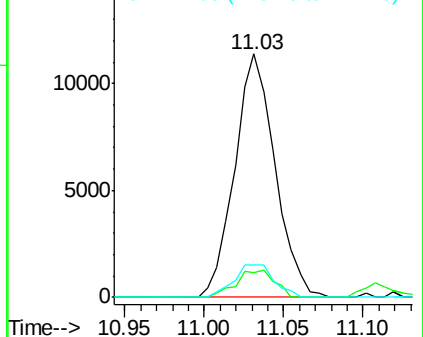
#28  
Naphthalene  
Concen: 1.180 ng/ul  
RT: 11.03 min Scan# 1318  
Delta R.T. -0.01 min  
Lab File: BG029421.D  
Acq: 24 Oct 2017 12:42

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:128 Resp: 20110  
Ion Ratio Lower Upper  
128 100  
129 10.3 9.3 13.9  
127 13.4 10.7 16.1

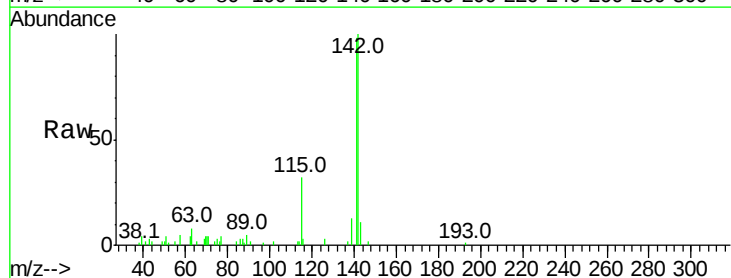


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

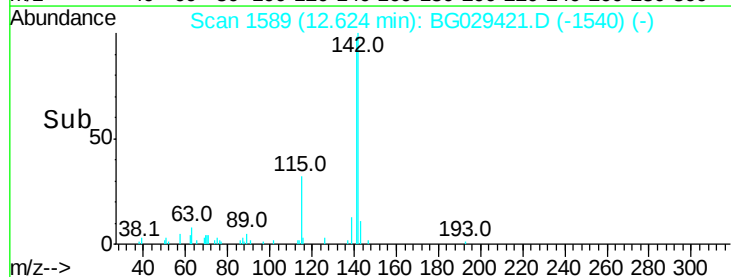
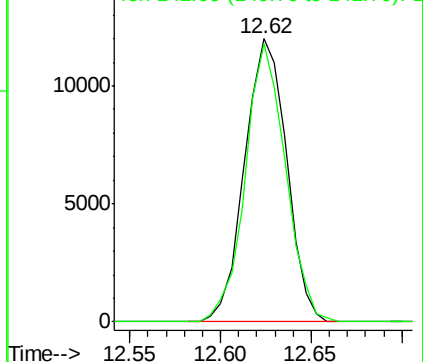


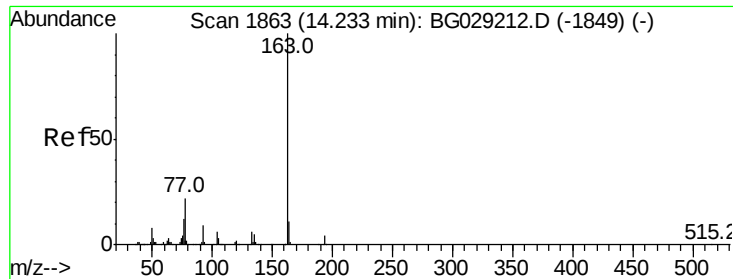
#34  
2-Methylnaphthalene  
Concen: 1.368 ng/ul  
RT: 12.62 min Scan# 1589  
Delta R.T. -0.01 min  
Lab File: BG029421.D  
Acq: 24 Oct 2017 12:42

Tgt Ion:142 Resp: 19294  
Ion Ratio Lower Upper  
142 100  
141 98.1 75.4 113.0



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

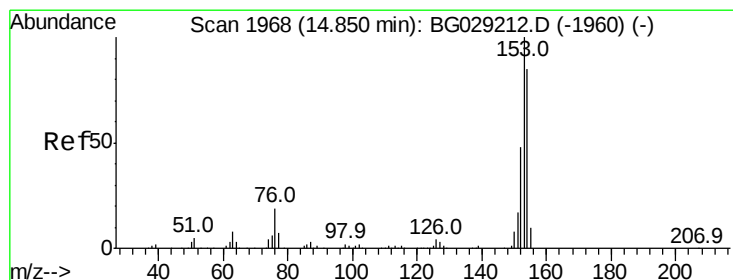
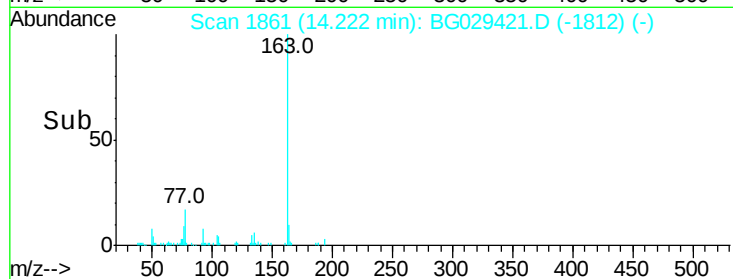
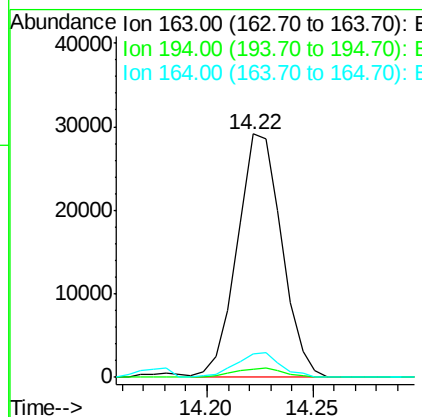
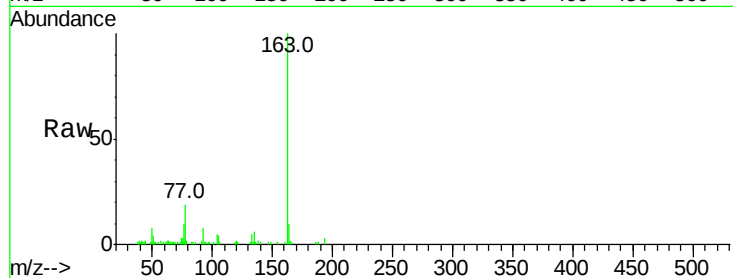




#44  
Dimethylphthalate  
Concen: 2.314 ng/ul  
RT: 14.22 min Scan# 1861  
Delta R.T. -0.01 min  
Lab File: BG029421.D  
Acq: 24 Oct 2017 12:42

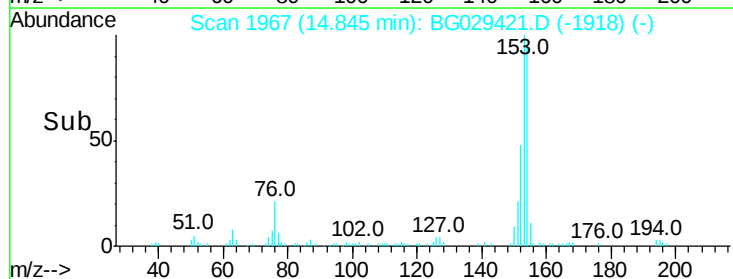
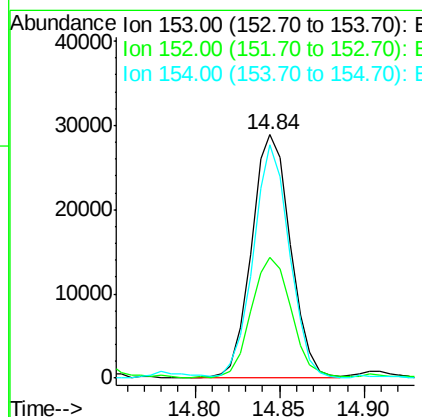
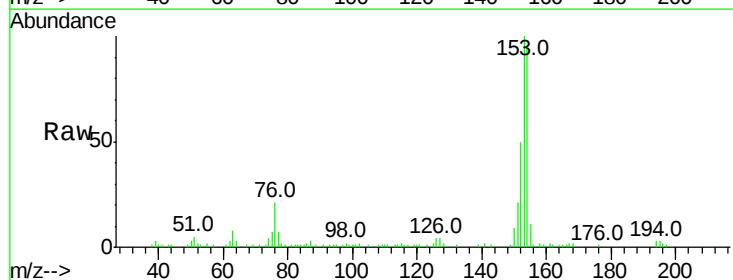
Instrument :  
BNA\_G  
ClientSampleId :

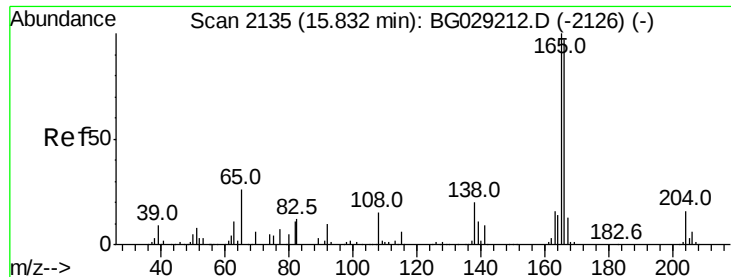
Tot Ion:163 Resp: 42378  
Ion Ratio Lower Upper  
163 100  
194 3.3 3.5 5.3#  
164 9.8 7.6 11.4



#49  
Acenaphthene  
Concen: 2.914 ng/ul  
RT: 14.84 min Scan# 1967  
Delta R.T. -0.01 min  
Lab File: BG029421.D  
Acq: 24 Oct 2017 12:42

Tgt Ion:153 Resp: 46431  
Ion Ratio Lower Upper  
153 100  
152 49.8 38.2 57.2  
154 96.0 70.6 105.8





#58

Fluorene

Concen: 2.520 ng/ul

RT: 15.83 min Scan# 2134

Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

Instrument :

BNA\_G

ClientSampleId :

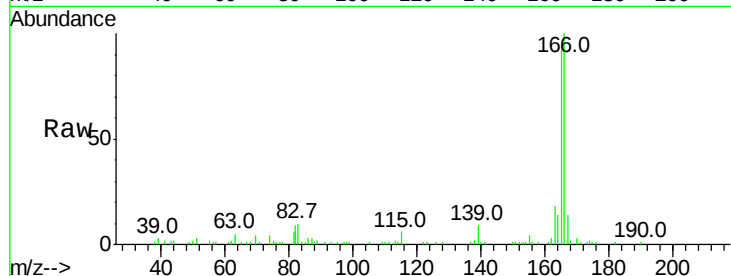
Tot Ion:166 Resp: 43804

Ion Ratio Lower Upper

166 100

165 94.4 79.9 119.9

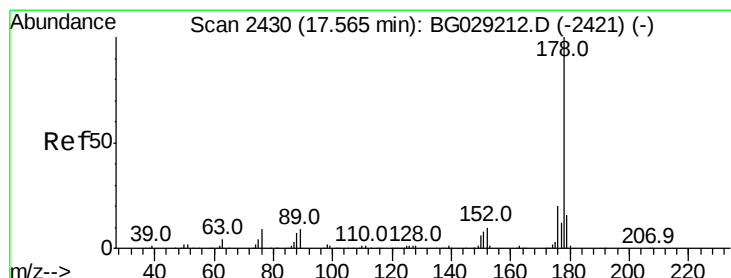
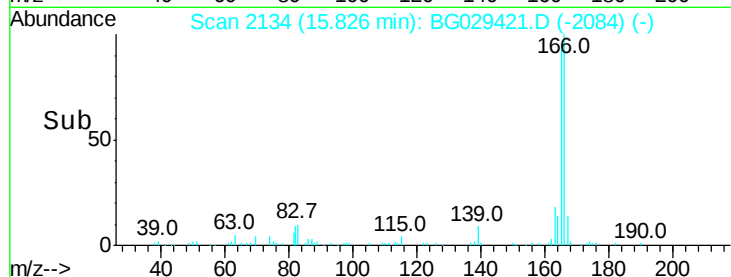
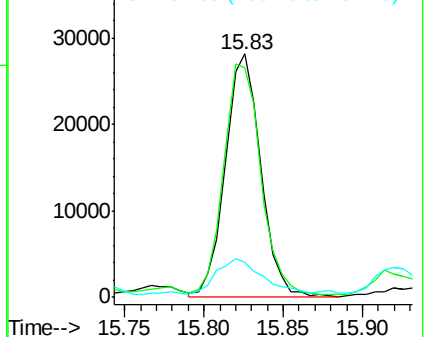
167 14.2 10.6 16.0



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



#69

Phenanthrene

Concen: 38.276 ng/ul

RT: 17.56 min Scan# 2430

Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

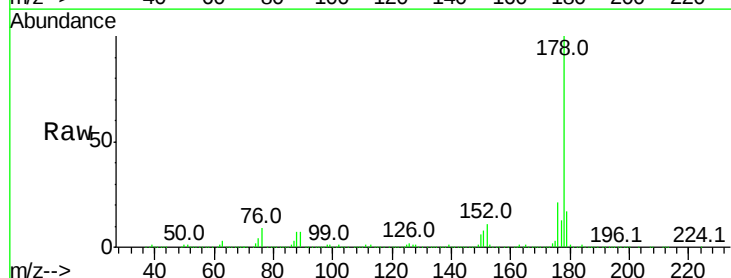
Tgt Ion:178 Resp: 1069321

Ion Ratio Lower Upper

178 100

179 16.7 13.0 19.6

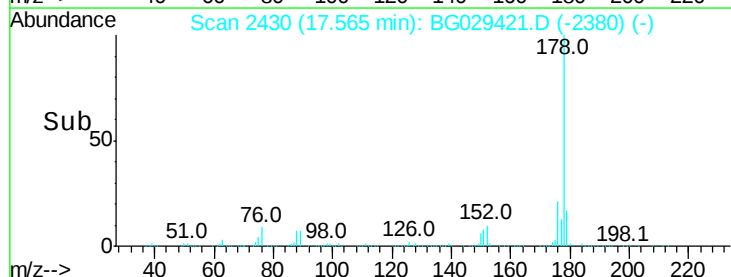
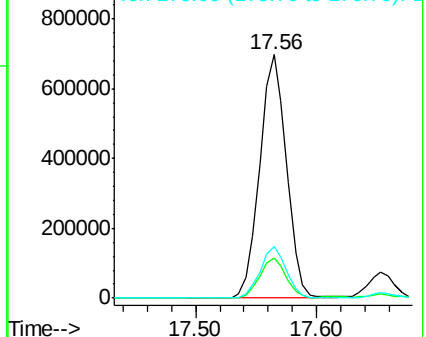
176 21.0 15.3 22.9

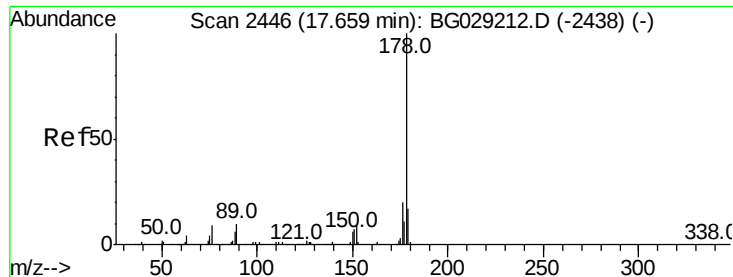


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 3.861 ng/ul

RT: 17.65 min Scan# 2445

Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

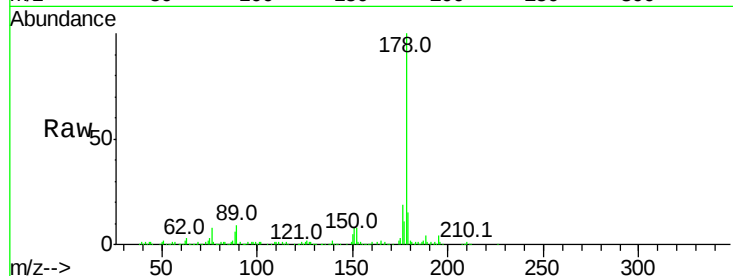
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:178 Resp: 111300

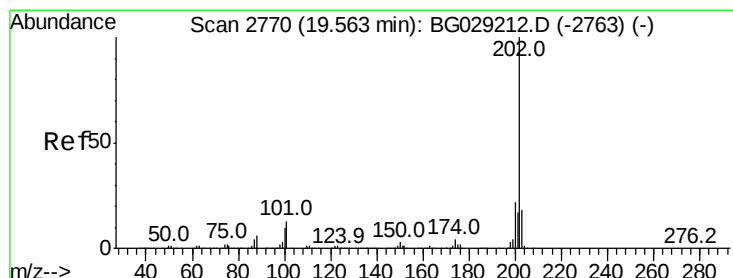
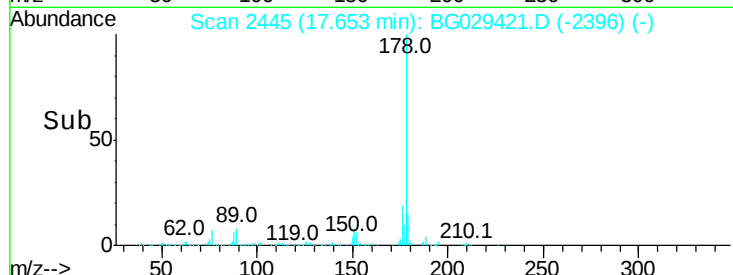
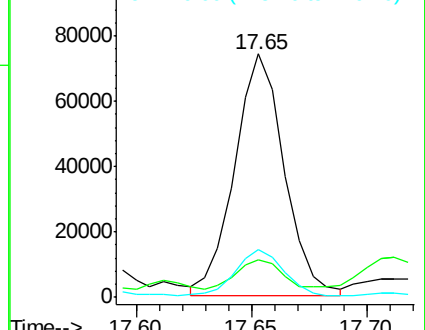
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.4  | 13.2  | 19.8  |
| 176 | 19.4  | 16.0  | 24.0  |



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



#74

Fluoranthene

Concen: 28.865 ng/ul

RT: 19.56 min Scan# 2770

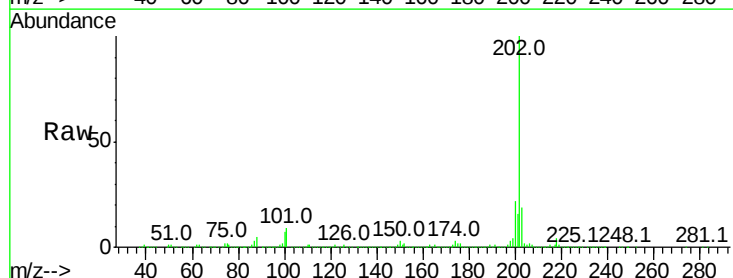
Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

Tgt Ion:202 Resp: 901224

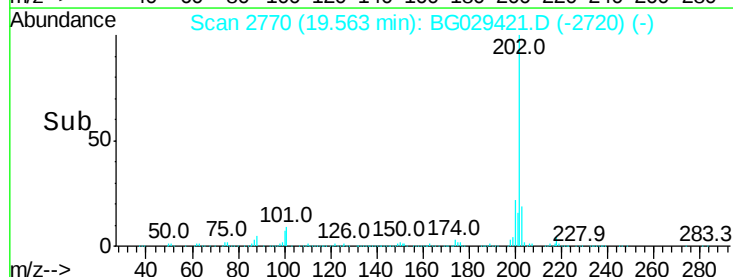
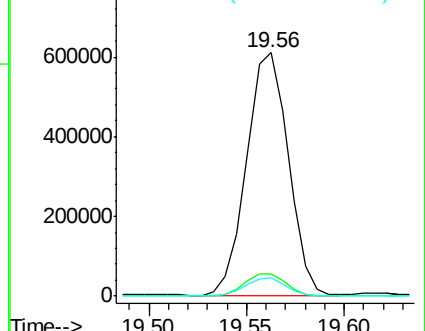
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 9.3   | 7.4   | 11.2  |
| 100 | 7.4   | 5.6   | 8.4   |

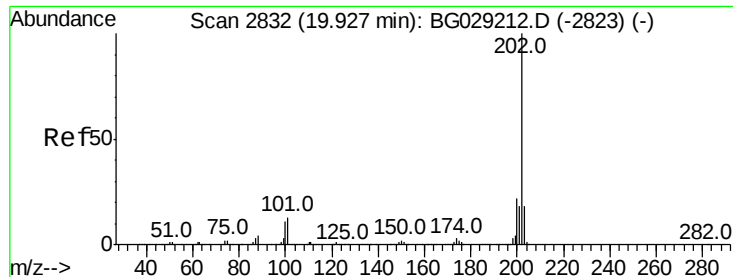


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

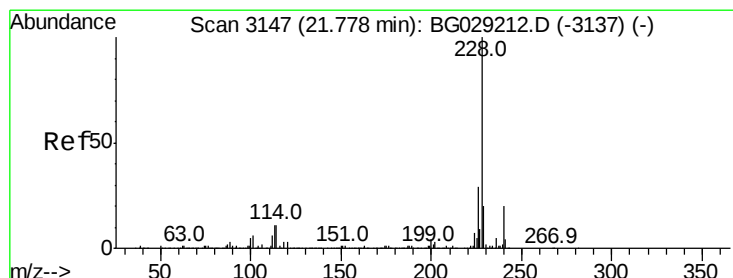
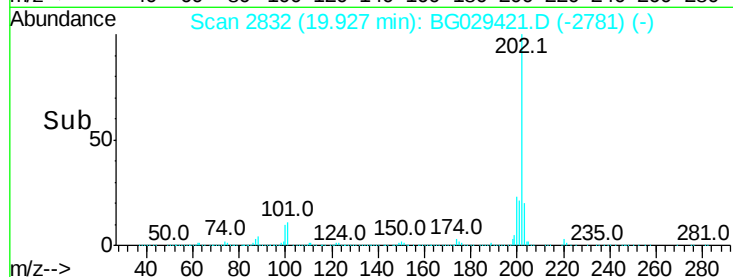
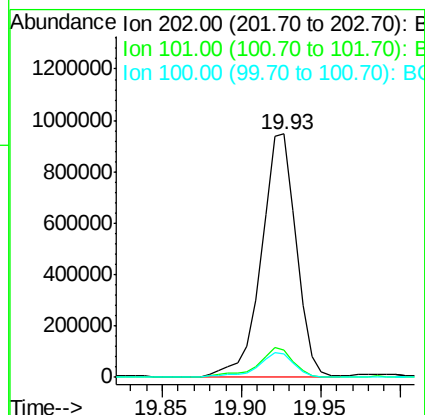
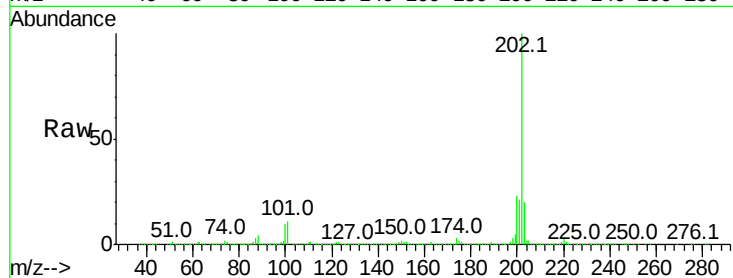




#77  
Pvrene  
Concen: 39.141 ng/ul  
RT: 19.93 min Scan# 2832  
Delta R.T. -0.00 min  
Lab File: BG029421.D  
Acq: 24 Oct 2017 12:42

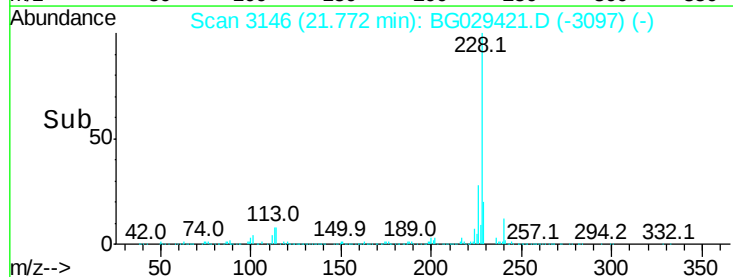
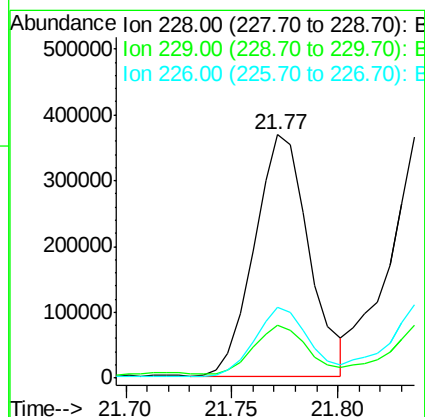
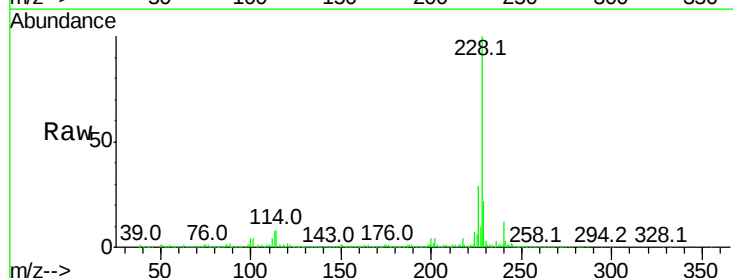
Instrument :  
BNA\_G  
ClientSampleId :

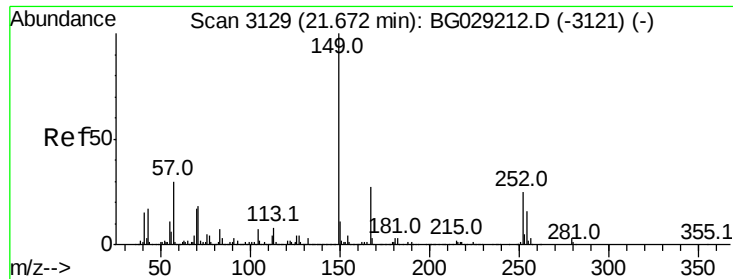
Tot Ion:202 Resp: 1441679  
Ion Ratio Lower Upper  
202 100  
101 11.4 8.4 12.6  
100 9.5 7.0 10.6



#80  
Benzo(a)anthracene  
Concen: 19.270 ng/ul  
RT: 21.77 min Scan# 3146  
Delta R.T. -0.01 min  
Lab File: BG029421.D  
Acq: 24 Oct 2017 12:42

Tgt Ion:228 Resp: 663687  
Ion Ratio Lower Upper  
228 100  
229 22.0 16.2 24.4  
226 29.2 22.2 33.2

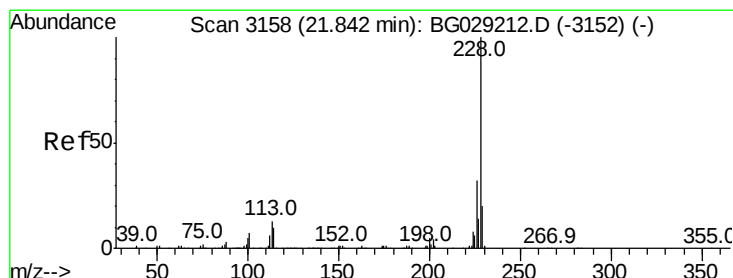
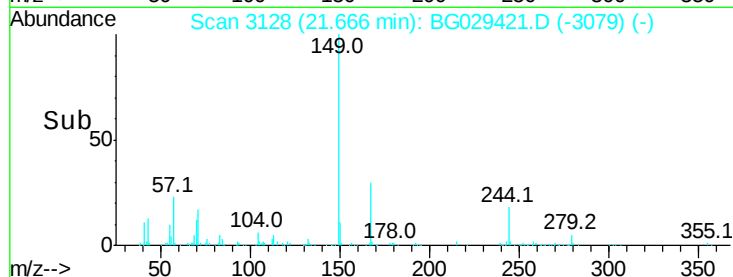
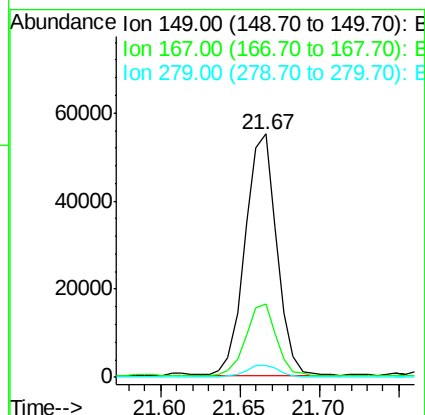
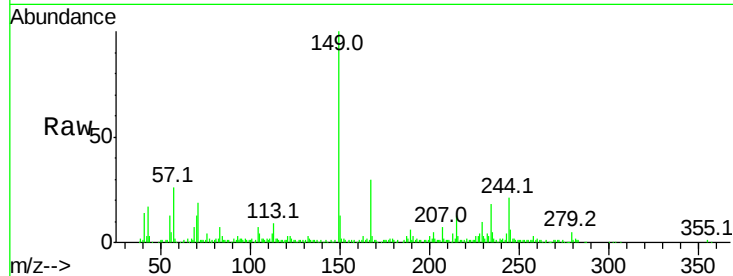




#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.522 ng/ul  
 RT: 21.67 min Scan# 3128  
 Delta R.T. -0.01 min  
 Lab File: BG029421.D  
 Acq: 24 Oct 2017 12:42

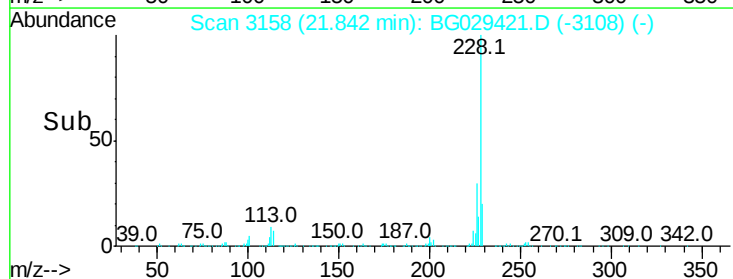
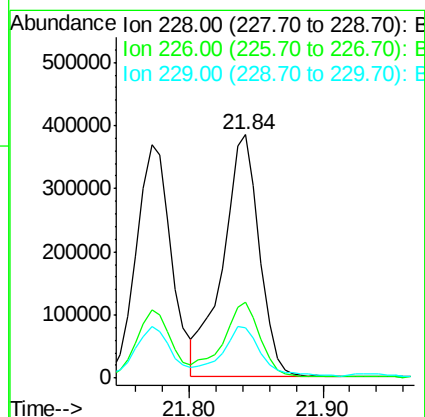
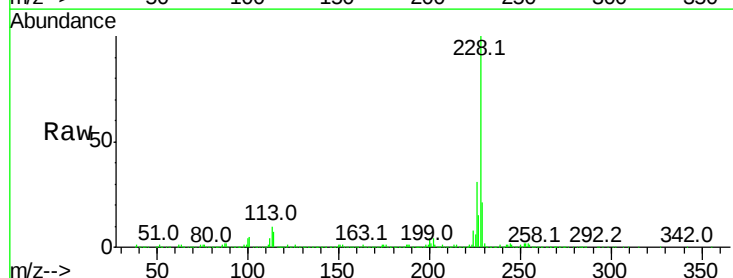
Instrument :  
 BNA\_G  
 ClientSampleId :

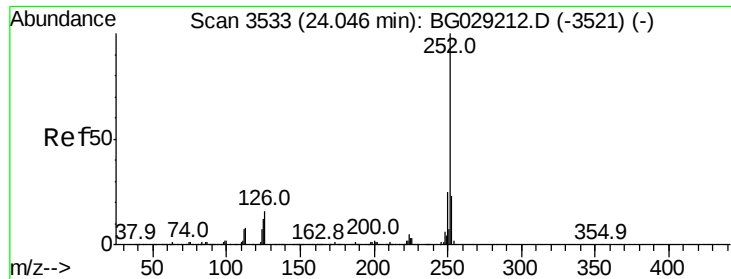
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 30.2  | 23.2  | 34.8  |
| 279     | 5.1   | 3.1   | 4.7   |



#82  
 Chrysene  
 Concen: 23.484 ng/ul  
 RT: 21.84 min Scan# 3158  
 Delta R.T. -0.01 min  
 Lab File: BG029421.D  
 Acq: 24 Oct 2017 12:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 24.2  | 36.2  |
| 229     | 20.9  | 15.2  | 22.8  |





#85

Benzo(b)fluoranthene

Concen: 16.269 ng/ul

RT: 24.05 min Scan# 3534

Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

Instrument :

BNA\_G

ClientSampleId :

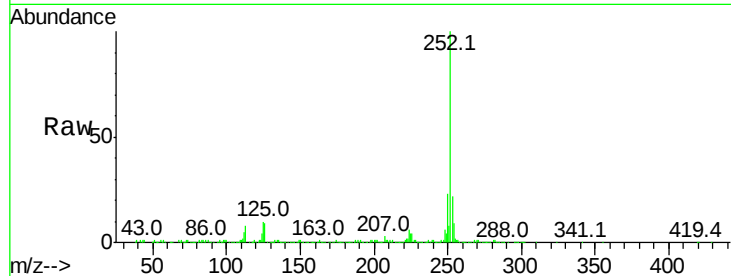
Tot Ion:252 Resp: 550578

Ion Ratio Lower Upper

252 100

253 21.9 17.0 25.4

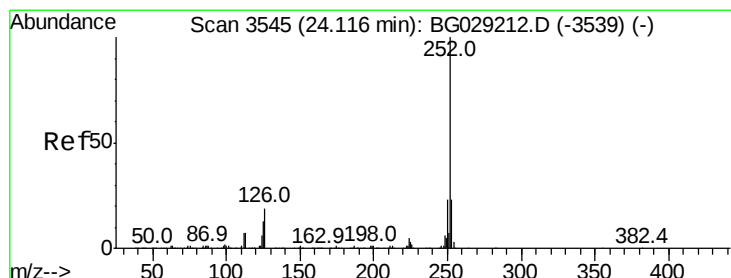
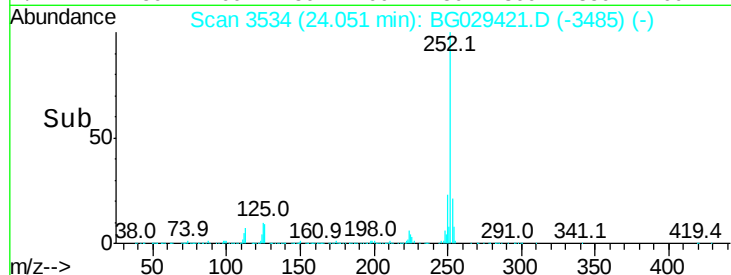
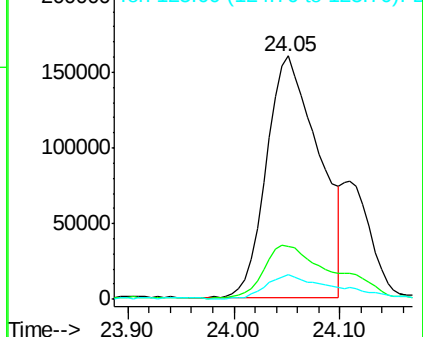
125 10.0 7.5 11.3



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



#86

Benzo(k)fluoranthene

Concen: 16.826 ng/ul

RT: 24.05 min Scan# 3534

Delta R.T. -0.08 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

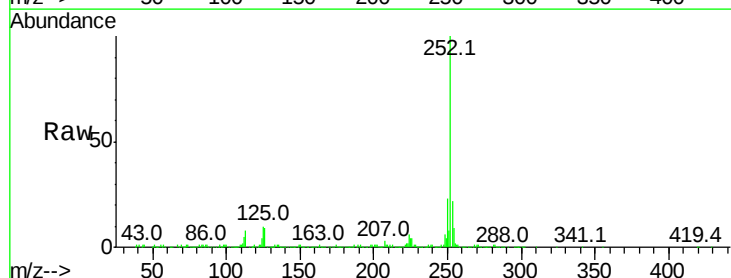
Tgt Ion:252 Resp: 550578

Ion Ratio Lower Upper

252 100

253 21.9 17.2 25.8

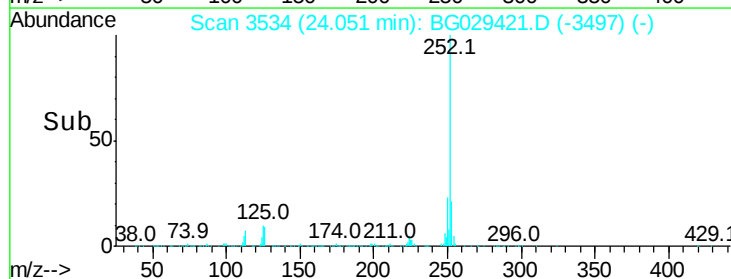
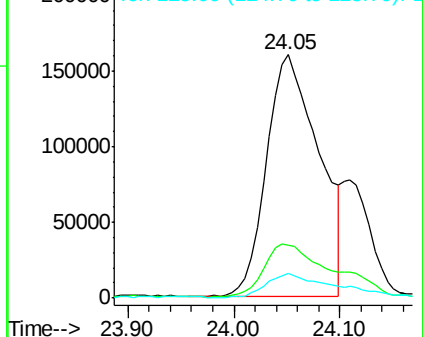
125 10.0 7.8 11.8

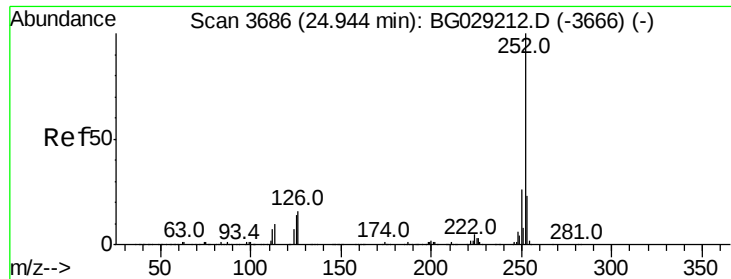


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 13.251 ng/ul

RT: 24.95 min Scan# 3687

Delta R.T. -0.01 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

Instrument :

BNA\_G

ClientSampleId :

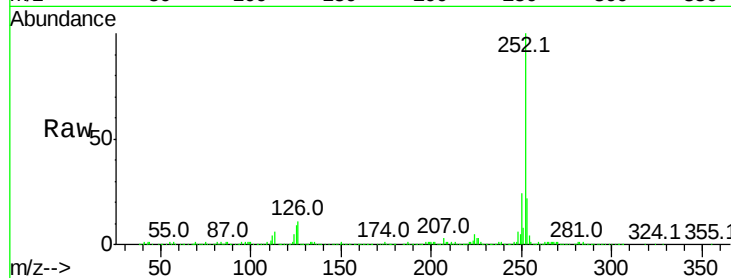
Tot Ion:252 Resp: 436518

Ion Ratio Lower Upper

252 100

253 22.0 17.1 25.7

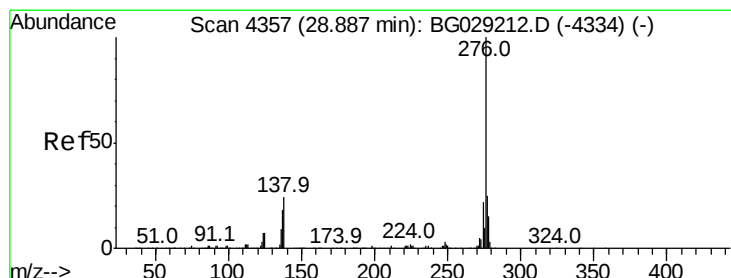
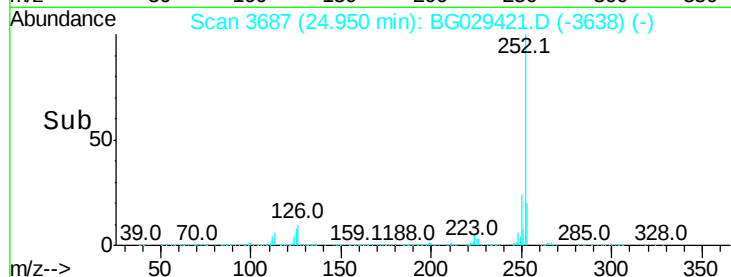
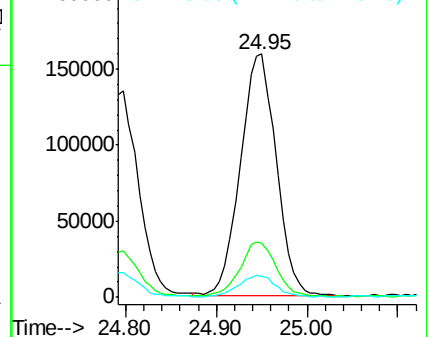
125 8.6 7.8 11.8



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 6.521 ng/ul

RT: 28.88 min Scan# 4355

Delta R.T. -0.04 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

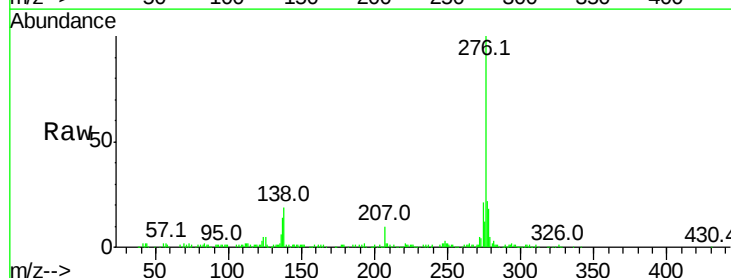
Tgt Ion:276 Resp: 243040

Ion Ratio Lower Upper

276 100

138 18.7 13.4 20.0

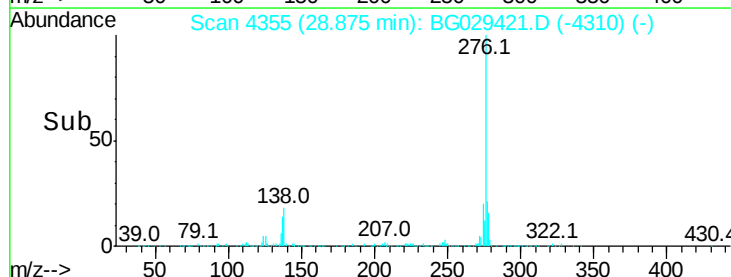
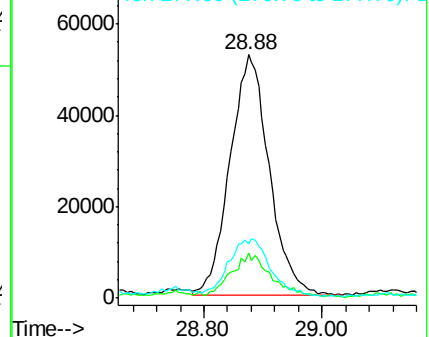
277 22.4 18.6 28.0

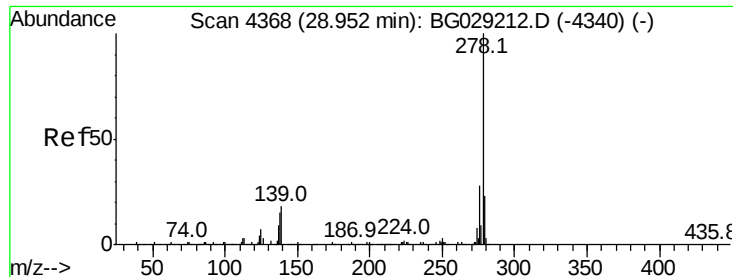


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 1.326 ng/ul

RT: 28.91 min Scan# 4361

Delta R.T. -0.07 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

Instrument :

BNA\_G

ClientSampleId :

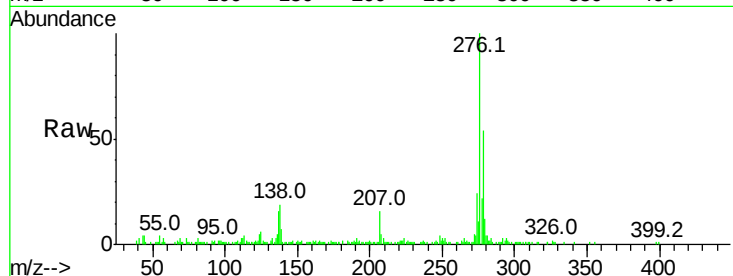
Tot Ion:278 Resp: 41044

Ion Ratio Lower Upper

278 100

139 12.3 9.4 14.2

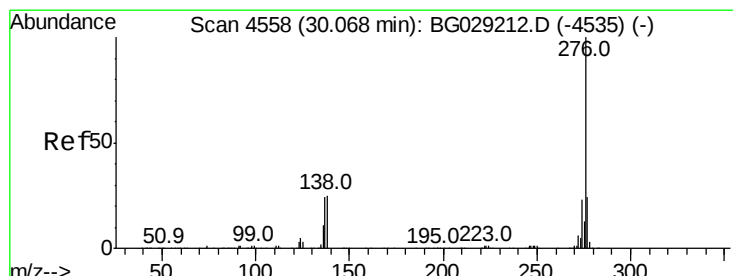
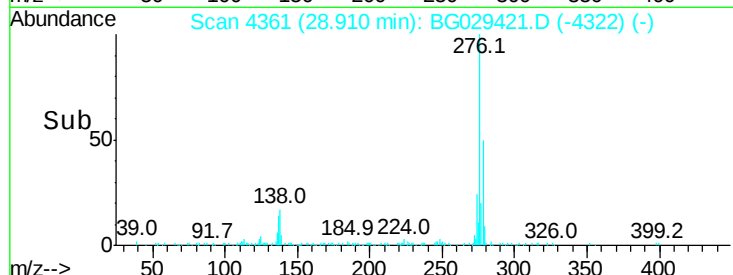
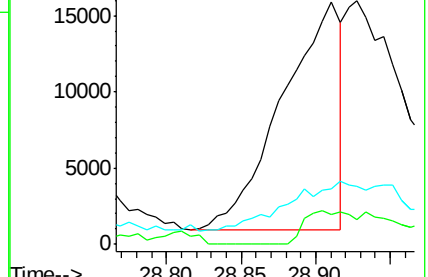
279 22.8 18.4 27.6



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



#91

Benzo(g,h,i)perylene

Concen: 8.986 ng/ul

RT: 30.06 min Scan# 4557

Delta R.T. -0.04 min

Lab File: BG029421.D

Acq: 24 Oct 2017 12:42

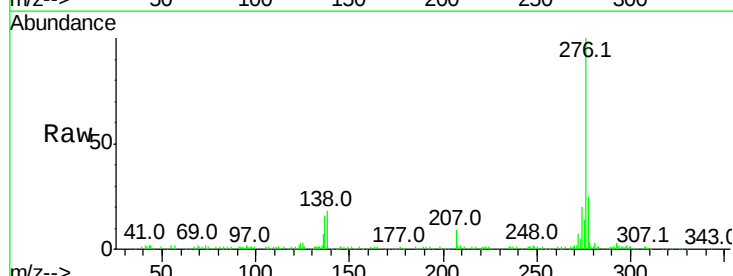
Tgt Ion:276 Resp: 277606

Ion Ratio Lower Upper

276 100

138 17.7 12.1 18.1

277 24.7 17.7 26.5



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

