

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG072715\  
 Data File : BG018152.D  
 Acq On : 28 Jul 2015 18:36  
 Operator : TP/UM  
 Sample : G3030-19  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02K0

Quant Time: Jul 29 02:01:41 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG072315.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 29 01:59:28 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.51  | 152  | 46731    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.29 | 136  | 212418   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.18 | 164  | 130479   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.93 | 188  | 260120   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.15 | 240  | 284924   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.35 | 264  | 297879   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.02  | 96  | 3024   | 4.04  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.69  | 99  | 73487  | 20.39 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.85  | 67  | 36290  | 20.39 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.04  | 132 | 72438  | 22.66 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.23  | 113 | 64931  | 20.31 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.66  | 128 | 37837  | 22.53 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.38  | 143 | 41523  | 23.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.92  | 165 | 69554  | 22.54 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.44 | 131 | 58255  | 16.23 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.60 | 166 | 205718 | 22.46 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.87 | 160 | 229178 | 20.36 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.40 | 143 | 25900  | 13.44 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.18 | 176 | 155711 | 18.39 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.31 | 200 | 16276  | 9.79  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.03 | 188 | 212705 | 18.88 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.34 | 212 | 223123 | 17.09 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.20 | 264 | 241039 | 16.96 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 6) Phenol                      | 6.72  | 94  | 12201  | 3.31  | ng/ul# | 90     |
| 14) Acetophenone               | 8.33  | 105 | 4530   | 1.01  | ng/ul  | 94     |
| 28) Naphthalene                | 10.34 | 128 | 22936  | 2.30  | ng/ul  | 97     |
| 34) 2-Methylnaphthalene        | 11.97 | 142 | 11993  | 1.60  | ng/ul  | 95     |
| 35) 1-Methylnaphthalene        | 12.19 | 142 | 9181   | 1.25  | ng/ul# | 91     |
| 45) Dimethylphthalate          | 13.64 | 163 | 132738 | 14.40 | ng/ul  | 98     |
| 50) Acenaphthene               | 14.24 | 153 | 48853  | 6.31  | ng/ul  | 100    |
| 54) Dibenzofuran               | 14.58 | 168 | 27274  | 2.48  | ng/ul  | 98     |
| 59) Fluorene                   | 15.24 | 166 | 35023  | 3.70  | ng/ul  | 99     |
| 70) Phenanthrene               | 16.98 | 178 | 518389 | 39.66 | ng/ul  | 99     |
| 72) Anthracene                 | 17.07 | 178 | 116191 | 8.76  | ng/ul  | 98     |
| 75) Carbazole                  | 17.35 | 167 | 73969  | 6.43  | ng/ul  | 98     |
| 76) Di-n-butylphthalate        | 17.92 | 149 | 163696 | 10.82 | ng/ul  | 98     |
| 77) Fluoranthene               | 19.01 | 202 | 942307 | 67.68 | ng/ul  | 97     |
| 80) Pyrene                     | 19.38 | 202 | 827318 | 50.70 | ng/ul  | 98     |
| 81) Butylbenzylphthalate       | 20.30 | 149 | 40802  | 6.11  | ng/ul  | 99     |
| 83) Benzo(a)anthracene         | 21.14 | 228 | 512949 | 34.04 | ng/ul  | 98     |
| 84) Bis(2-ethylhexyl)phthalate | 21.08 | 149 | 207192 | 21.66 | ng/ul  | 99     |
| 85) Chrysene                   | 21.18 | 228 | 510322 | 35.96 | ng/ul  | 95     |
| 87) Di-n-octyl phthalate       | 21.95 | 149 | 48489  | 3.04  | ng/ul  | 100    |
| 88) Benzo(b)fluoranthene       | 22.69 | 252 | 737525 | 45.19 | ng/ul  | 98     |
| 89) Benzo(k)fluoranthene       | 22.69 | 252 | 737525 | 46.69 | ng/ul  | 97     |
| 91) Benzo(a)pyrene             | 23.25 | 252 | 488404 | 30.90 | ng/ul  | 97     |

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Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02K0

Quant Time: Jul 29 02:01:41 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG072315.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 29 01:59:28 2015  
Response via : Initial Calibration

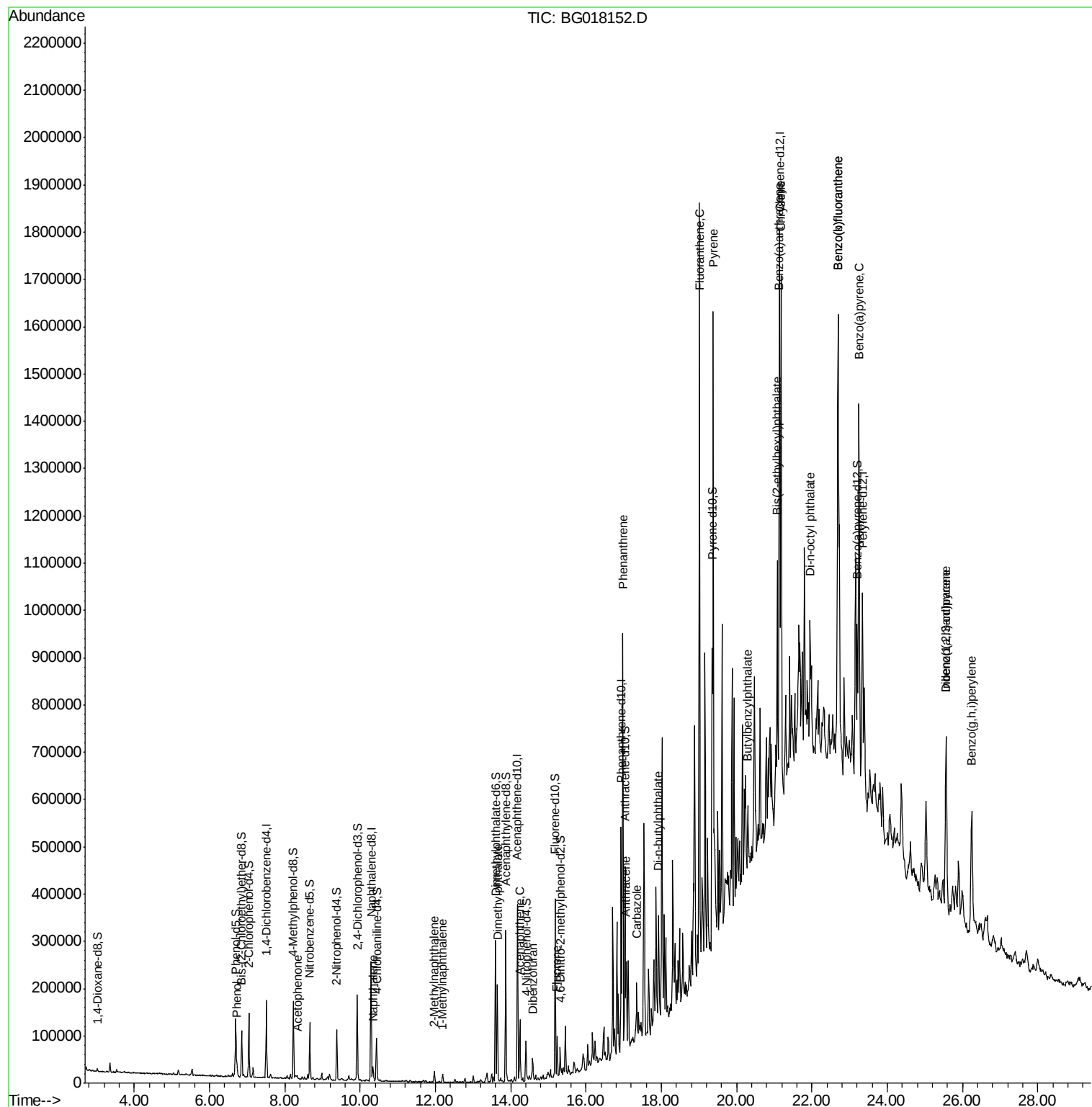
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 92) Indeno(1,2,3-cd)pyrene | 25.57 | 276  | 360209   | 19.75 | ng/ul  | 93       |
| 93) Dibenzo(a,h)anthracene | 25.57 | 278  | 98745    | 6.34  | ng/ul# | 75       |
| 94) Benzo(g,h,i)perylene   | 26.25 | 276  | 319758   | 21.22 | ng/ul  | 97       |

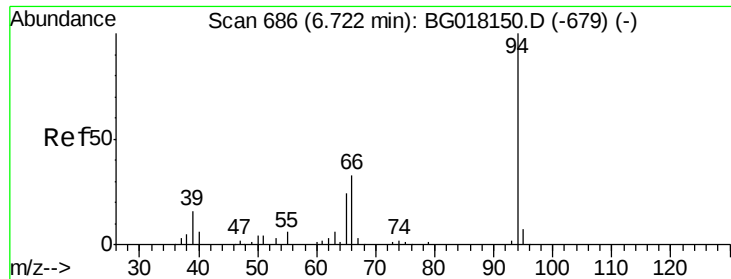
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 3.31 ng/ul

RT: 6.72 min Scan# 687

Delta R.T. 0.00 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

Instrument :

BNA\_M

ClientSampleId :

C02K0

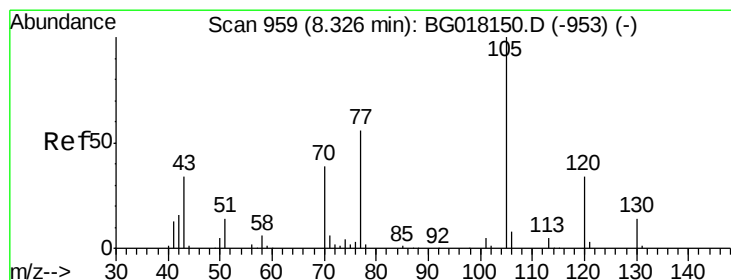
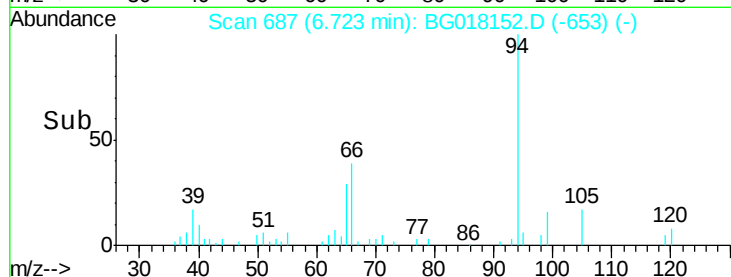
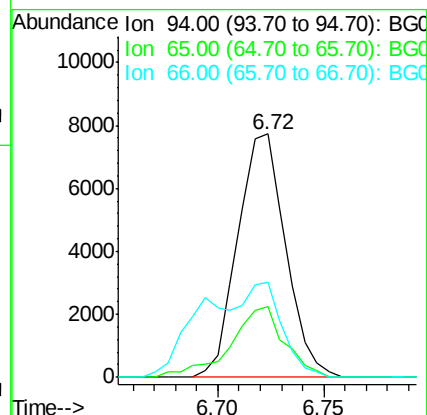
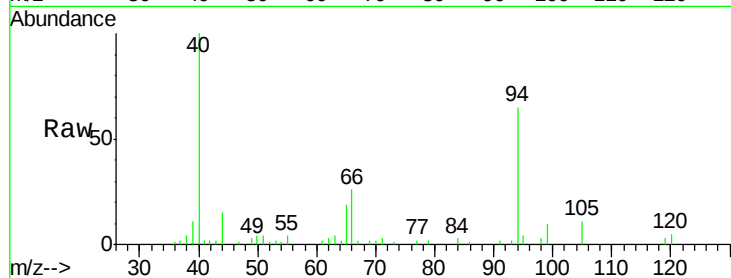
Tgt Ion: 94 Resp: 12201

Ion Ratio Lower Upper

94 100

65 29.0 20.1 30.1

66 39.3 25.9 38.9#



#14

Acetophenone

Concen: 1.01 ng/ul

RT: 8.33 min Scan# 960

Delta R.T. 0.00 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

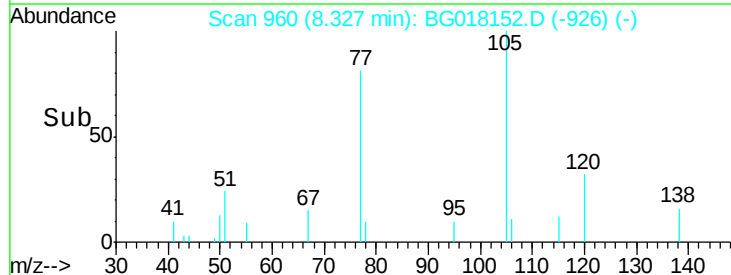
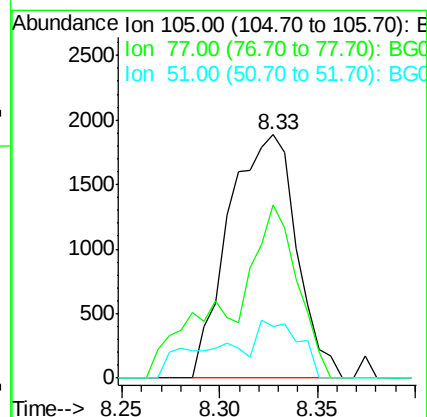
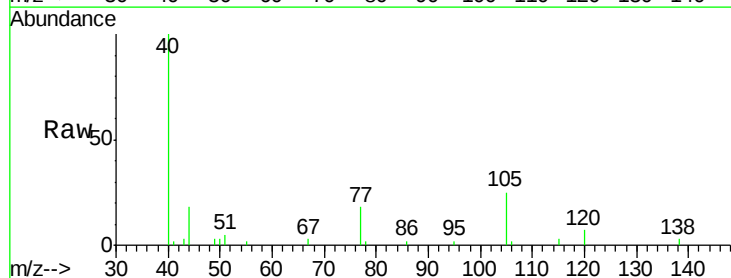
Tgt Ion: 105 Resp: 4530

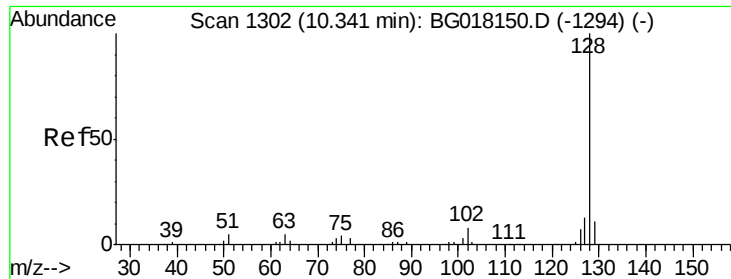
Ion Ratio Lower Upper

105 100

77 71.4 61.7 92.5

51 21.3 18.1 27.1

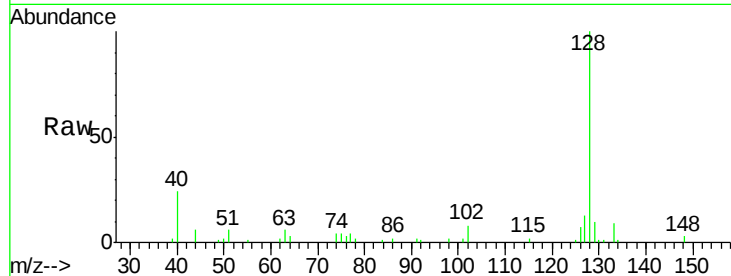




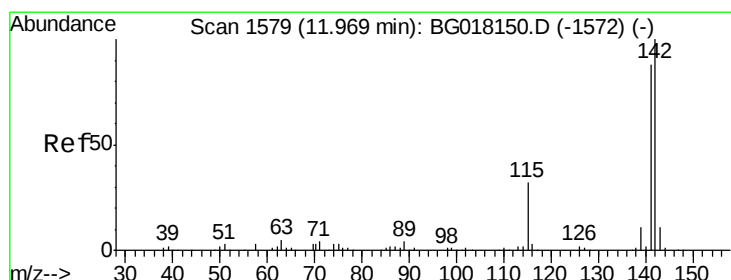
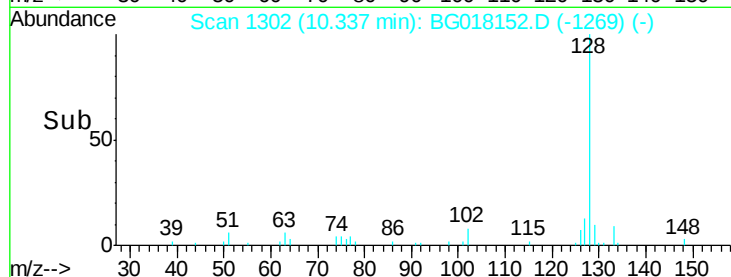
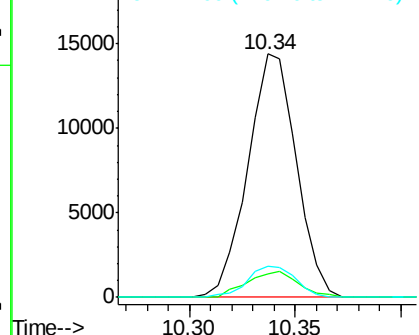
#28  
Naphthalene  
Concen: 2.30 ng/ul  
RT: 10.34 min Scan# 1302  
Delta R.T. -0.00 min  
Lab File: BG018152.D  
Acq: 28 Jul 2015 18:36

Instrument :  
BNA\_M  
ClientSampleId :  
C02K0

Tgt Ion:128 Resp: 22936  
Ion Ratio Lower Upper  
128 100  
129 9.9 9.5 14.3  
127 12.7 10.1 15.1

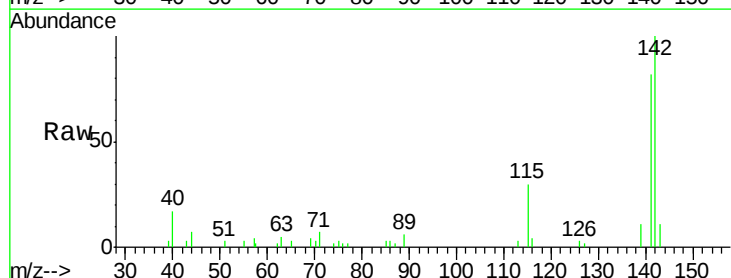


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

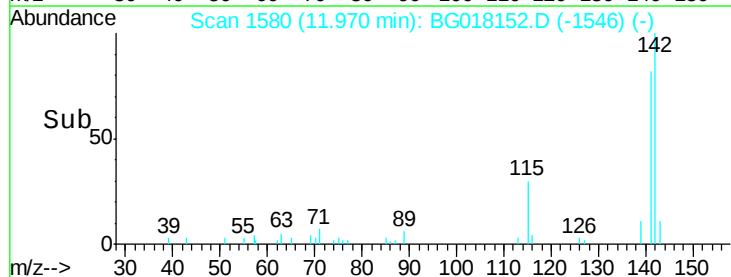
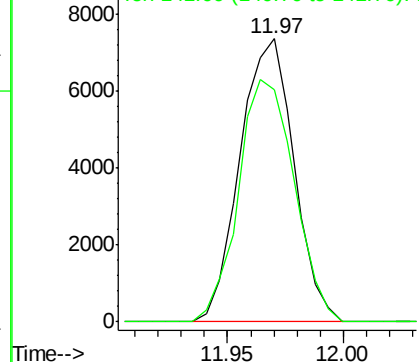


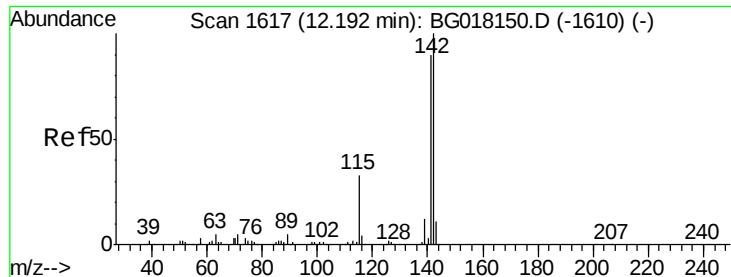
#34  
2-Methylnaphthalene  
Concen: 1.60 ng/ul  
RT: 11.97 min Scan# 1580  
Delta R.T. 0.00 min  
Lab File: BG018152.D  
Acq: 28 Jul 2015 18:36

Tgt Ion:142 Resp: 11993  
Ion Ratio Lower Upper  
142 100  
141 82.2 69.4 104.0



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

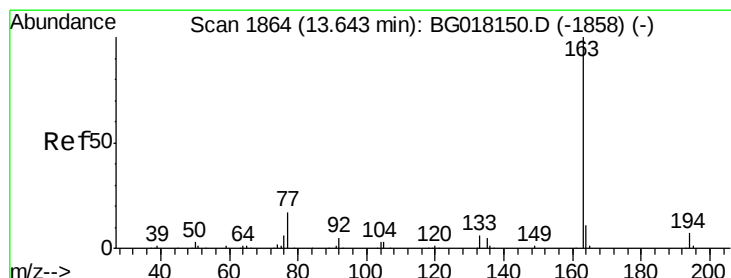
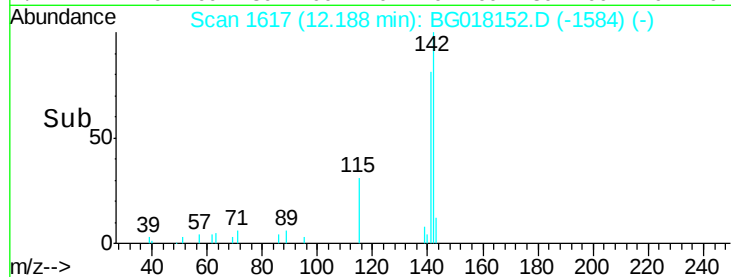
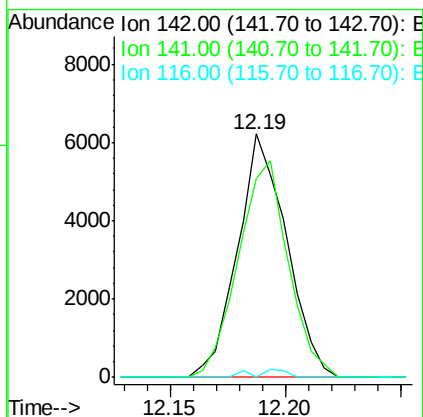
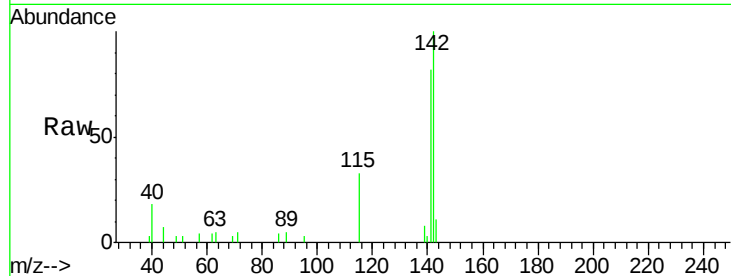




#35  
 1-Methylnaphthalene  
 Concen: 1.25 ng/ul  
 RT: 12.19 min Scan# 1617  
 Delta R.T. -0.00 min  
 Lab File: BG018152.D  
 Acq: 28 Jul 2015 18:36

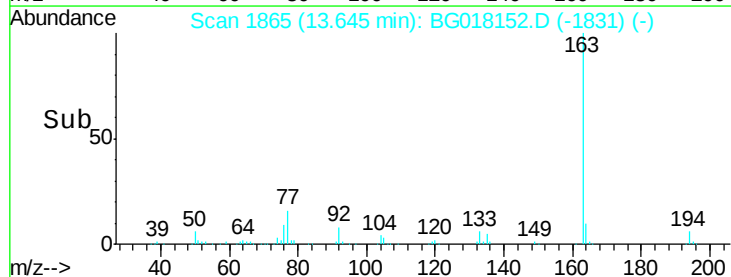
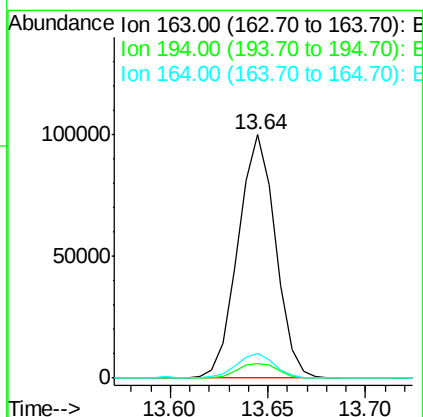
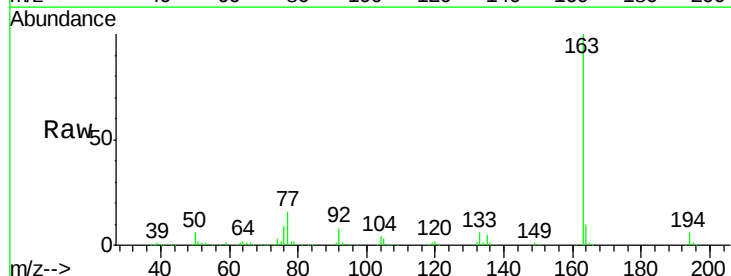
Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02K0

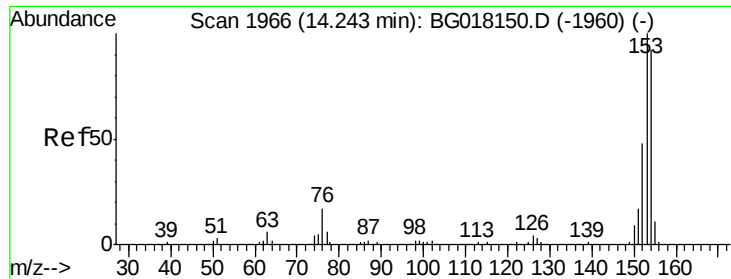
Tgt Ion:142 Resp: 9181  
 Ion Ratio Lower Upper  
 142 100  
 141 81.7 71.8 107.6  
 116 0.0 3.2 4.8#



#45  
 Dimethylphthalate  
 Concen: 14.40 ng/ul  
 RT: 13.64 min Scan# 1865  
 Delta R.T. 0.00 min  
 Lab File: BG018152.D  
 Acq: 28 Jul 2015 18:36

Tgt Ion:163 Resp: 132738  
 Ion Ratio Lower Upper  
 163 100  
 194 6.0 5.4 8.2  
 164 9.9 8.7 13.1





#50

Acenaphthene

Concen: 6.31 ng/ul

RT: 14.24 min Scan# 1967

Delta R.T. 0.00 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

Instrument :

BNA\_M

ClientSampleId :

C02K0

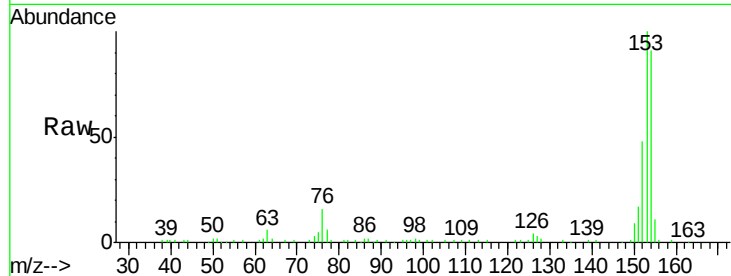
Tgt Ion:153 Resp: 48853

Ion Ratio Lower Upper

153 100

152 48.1 38.9 58.3

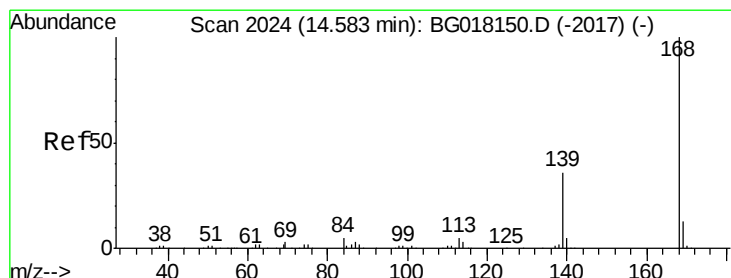
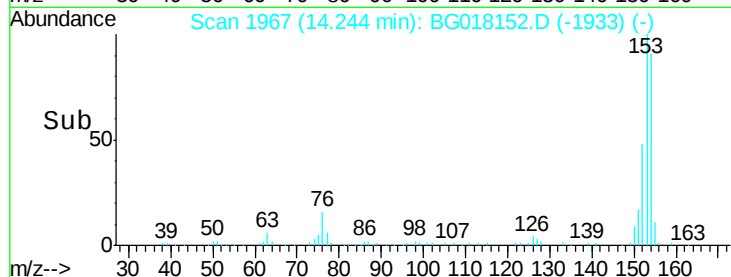
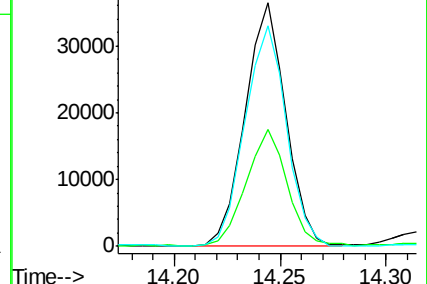
154 90.7 72.6 108.8



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



#54

Dibenzofuran

Concen: 2.48 ng/ul

RT: 14.58 min Scan# 2024

Delta R.T. -0.00 min

Lab File: BG018152.D

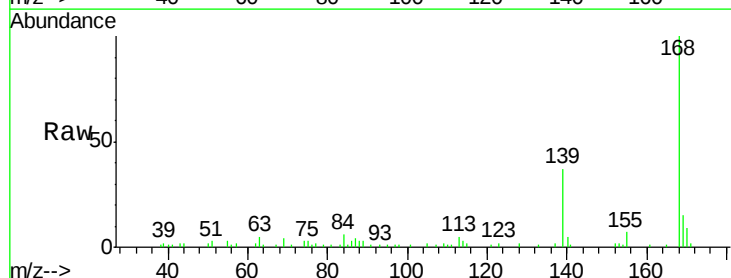
Acq: 28 Jul 2015 18:36

Tgt Ion:168 Resp: 27274

Ion Ratio Lower Upper

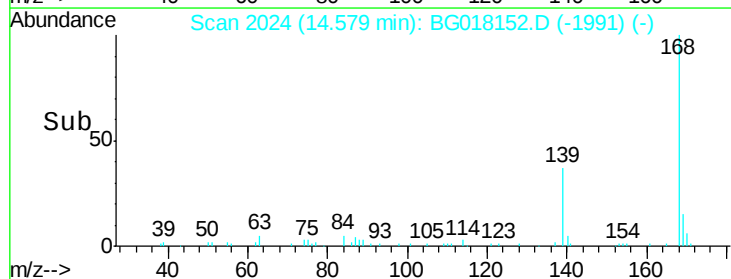
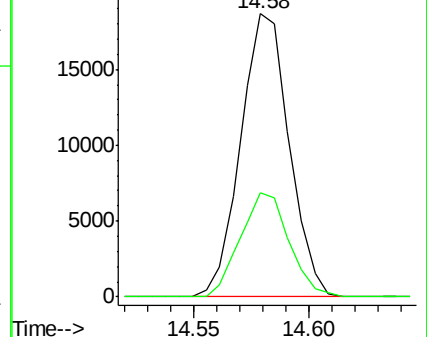
168 100

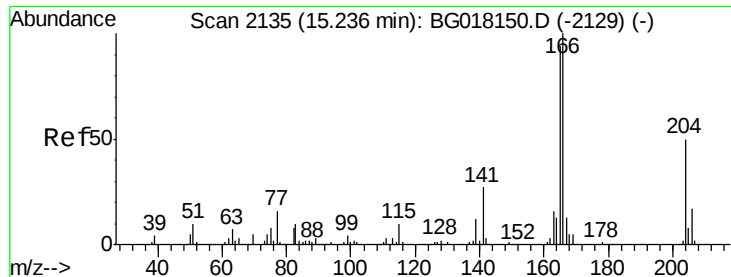
139 36.8 30.6 46.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 3.70 ng/ul

RT: 15.24 min Scan# 2136

Delta R.T. 0.00 min

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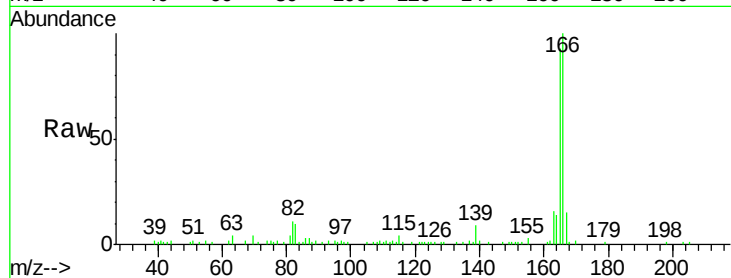
Tgt Ion:166 Resp: 35023

Ion Ratio Lower Upper

166 100

165 92.6 73.6 110.4

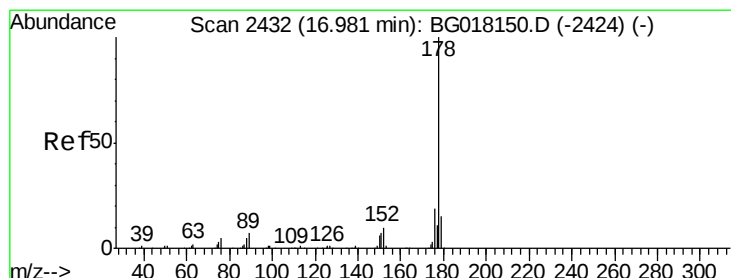
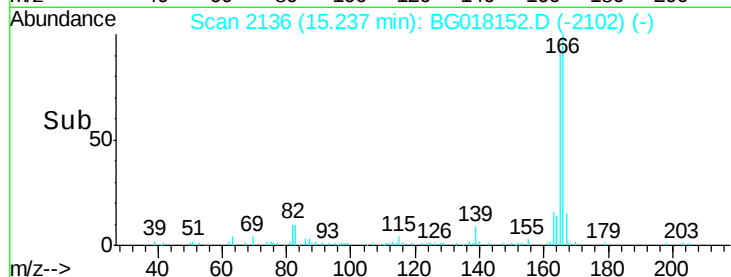
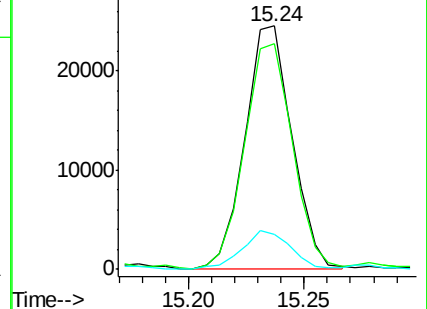
167 14.5 10.8 16.2



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



#70

Phenanthrene

Concen: 39.66 ng/ul

RT: 16.98 min Scan# 2433

Delta R.T. 0.00 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

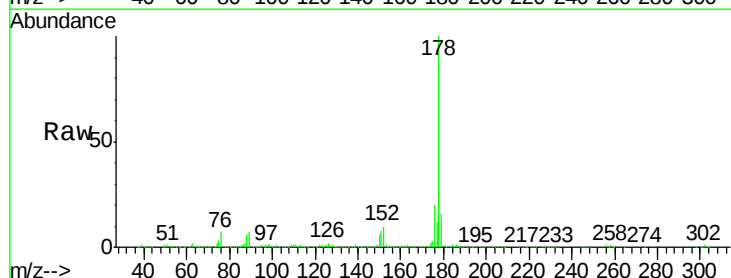
Tgt Ion:178 Resp: 518389

Ion Ratio Lower Upper

178 100

179 15.9 13.0 19.6

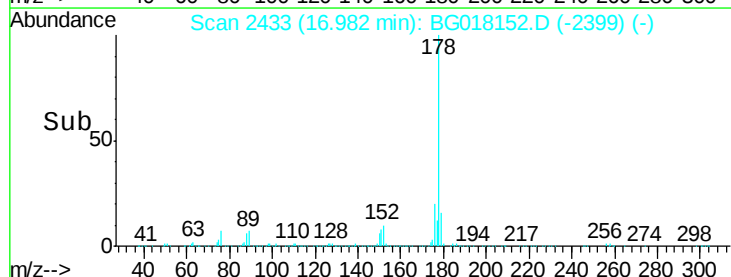
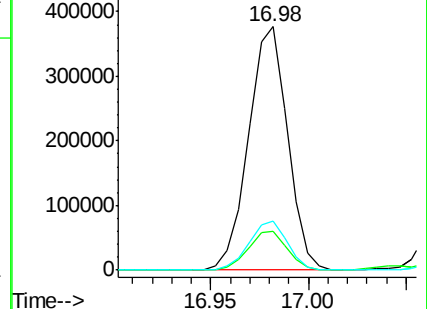
176 20.4 15.8 23.8

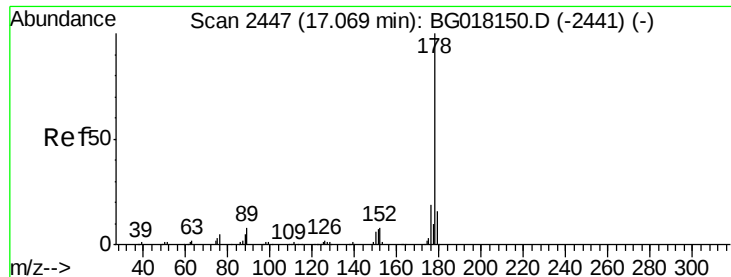


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 8.76 ng/ul

RT: 17.07 min Scan# 2448

Delta R.T. 0.00 min

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ClientSampleId :

C02K0

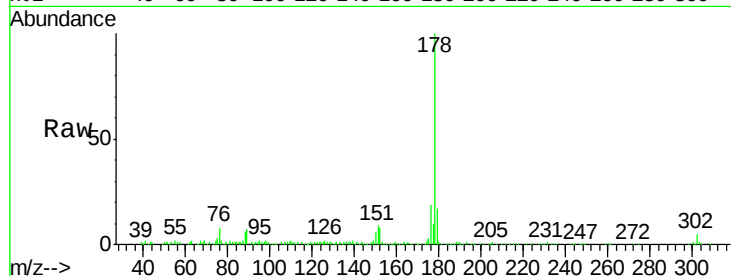
Tgt Ion:178 Resp: 116191

Ion Ratio Lower Upper

178 100

179 16.6 12.4 18.6

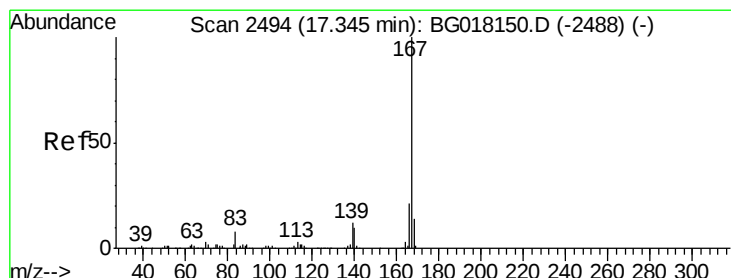
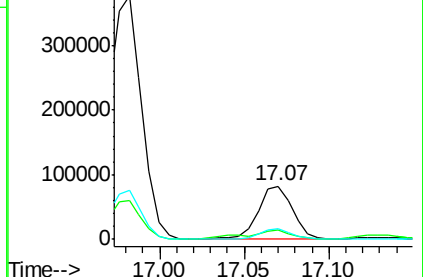
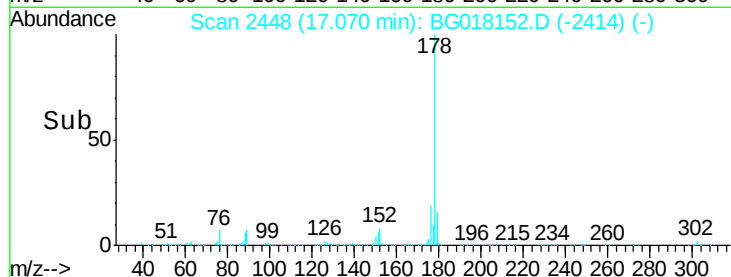
176 19.0 15.8 23.8



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



#75

Carbazole

Concen: 6.43 ng/ul

RT: 17.35 min Scan# 2495

Delta R.T. 0.00 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

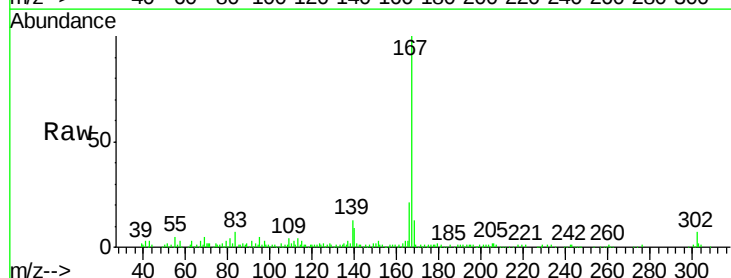
Tgt Ion:167 Resp: 73969

Ion Ratio Lower Upper

167 100

166 20.5 17.4 26.2

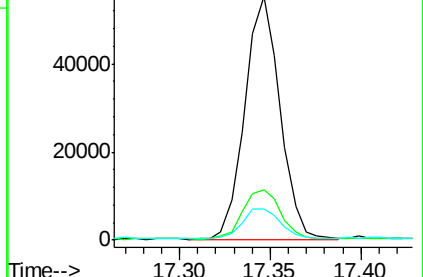
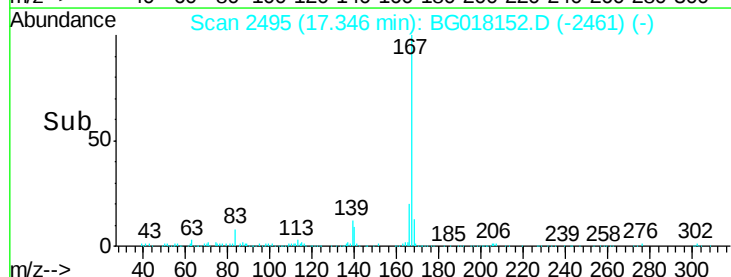
139 12.7 10.6 15.8

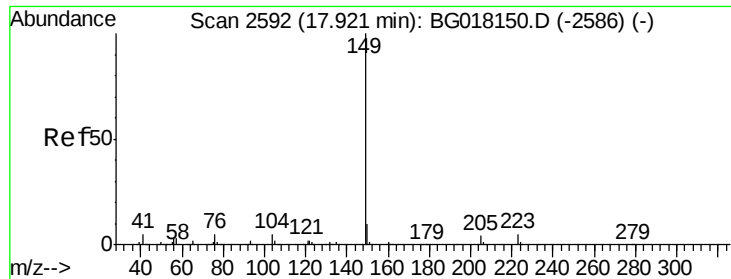


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

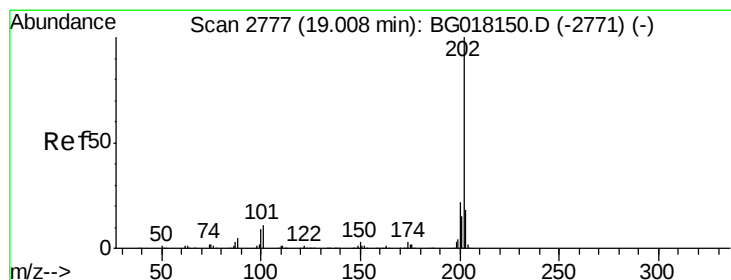
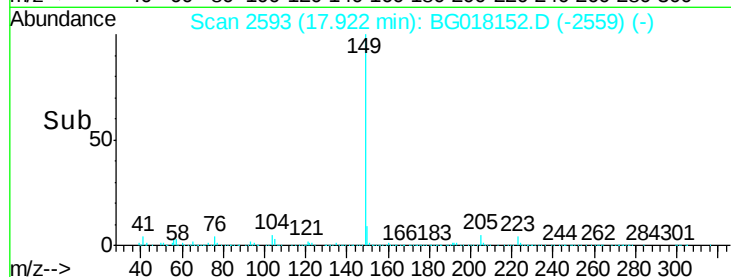
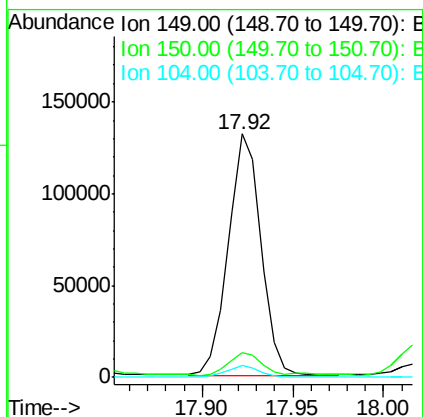
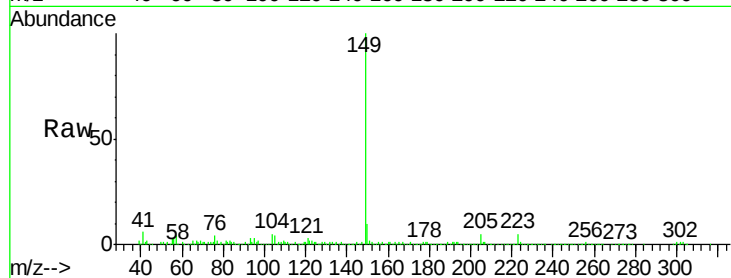




#76  
Di-n-butylphthalate  
Concen: 10.82 ng/ul  
RT: 17.92 min Scan# 2593  
Delta R.T. 0.00 min  
Lab File: BG018152.D  
Acq: 28 Jul 2015 18:36

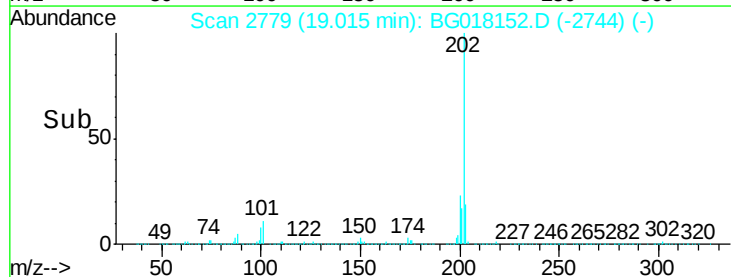
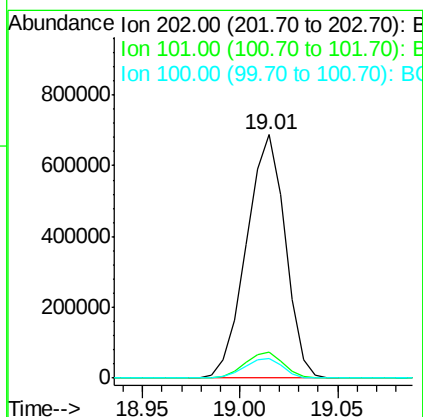
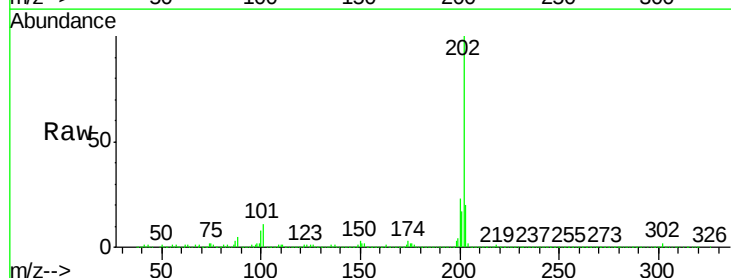
Instrument :  
BNA\_M  
ClientSampleId :  
C02K0

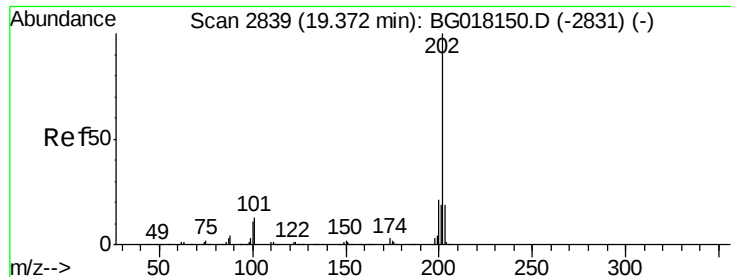
Tgt Ion:149 Resp: 163696  
Ion Ratio Lower Upper  
149 100  
150 10.4 7.4 11.0  
104 4.8 3.8 5.8



#77  
Fluoranthene  
Concen: 67.68 ng/ul  
RT: 19.01 min Scan# 2779  
Delta R.T. 0.01 min  
Lab File: BG018152.D  
Acq: 28 Jul 2015 18:36

Tgt Ion:202 Resp: 942307  
Ion Ratio Lower Upper  
202 100  
101 10.7 9.1 13.7  
100 8.2 7.5 11.3

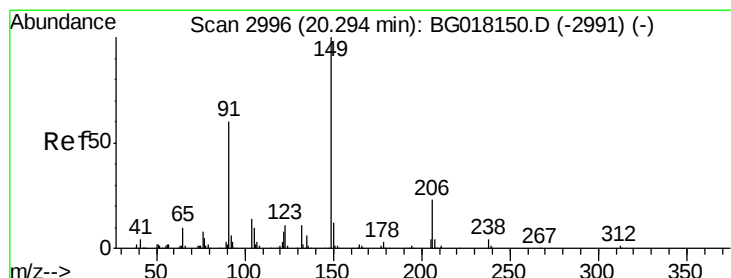
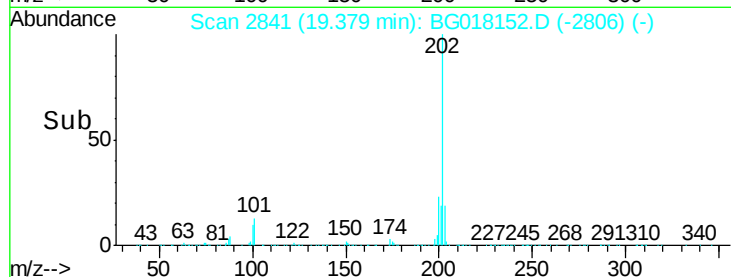
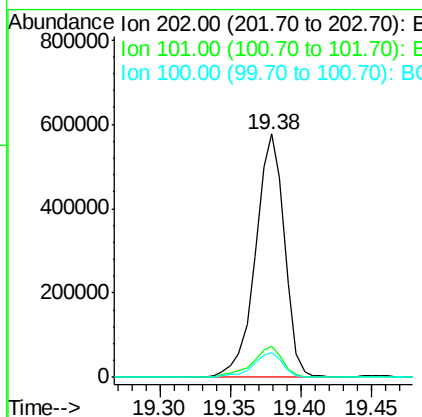
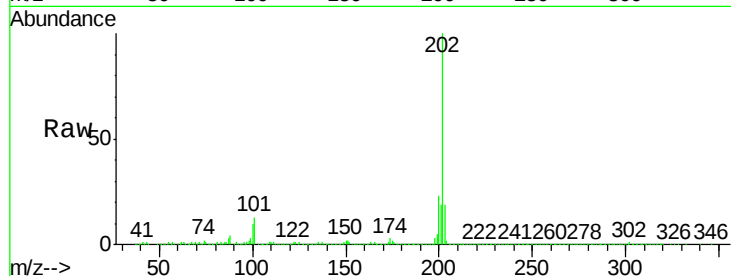




#80  
 Pyrene  
 Concen: 50.70 ng/ul  
 RT: 19.38 min Scan# 2841  
 Delta R.T. 0.01 min  
 Lab File: BG018152.D  
 Acq: 28 Jul 2015 18:36

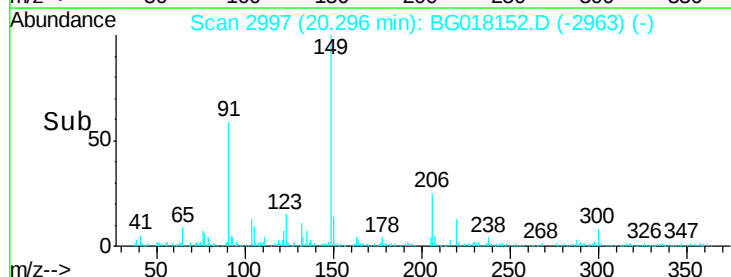
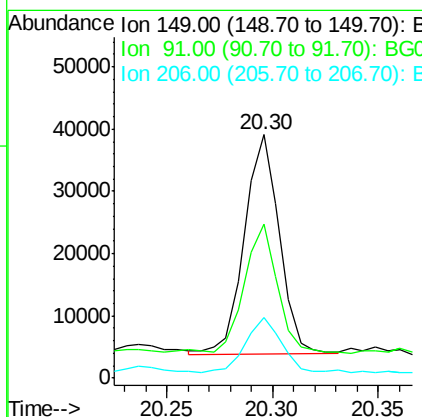
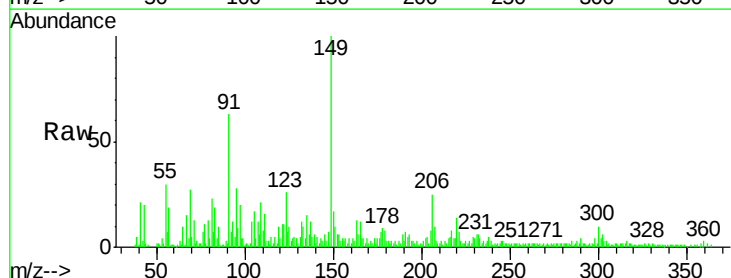
Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02K0

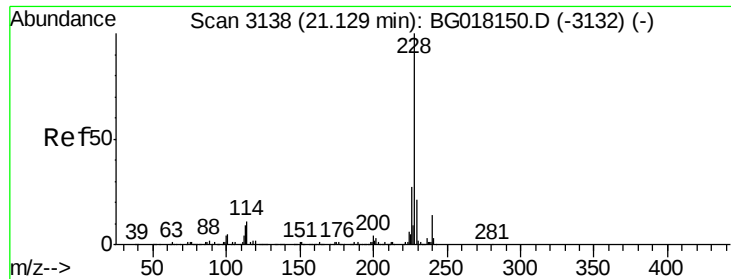
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.8  | 10.9  | 16.3  |
| 100     | 10.0  | 8.5   | 12.7  |



#81  
 Butylbenzylphthalate  
 Concen: 6.11 ng/ul  
 RT: 20.30 min Scan# 2997  
 Delta R.T. 0.00 min  
 Lab File: BG018152.D  
 Acq: 28 Jul 2015 18:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 63.3  | 51.1  | 76.7  |
| 206     | 24.6  | 19.9  | 29.9  |

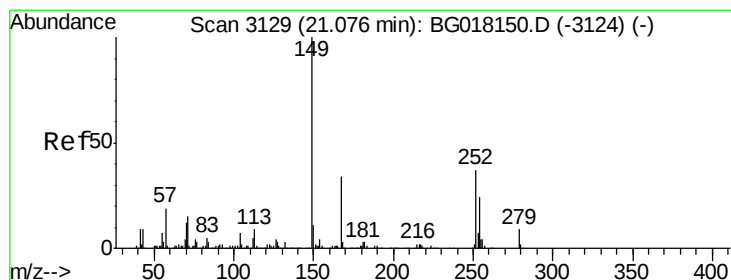
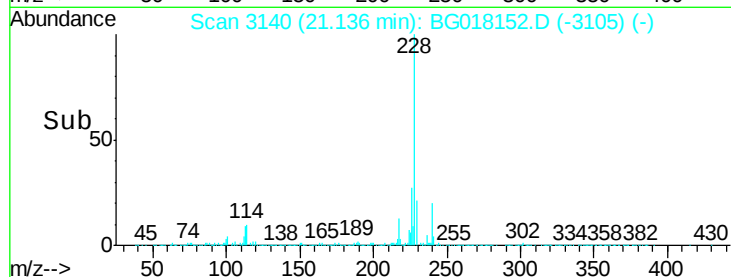
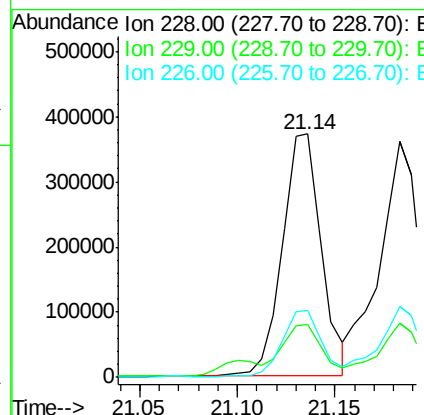
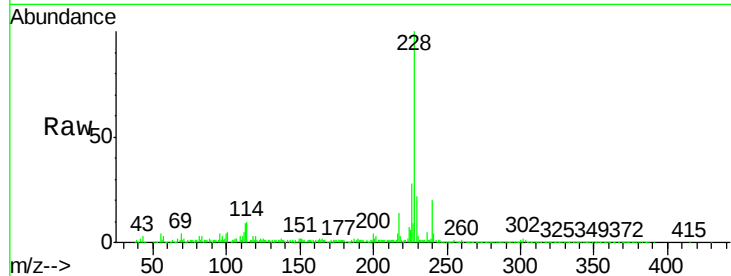




#83  
Benzo(a)anthracene  
Concen: 34.04 ng/ul  
RT: 21.14 min Scan# 3140  
Delta R.T. 0.01 min  
Lab File: BG018152.D  
Acq: 28 Jul 2015 18:36

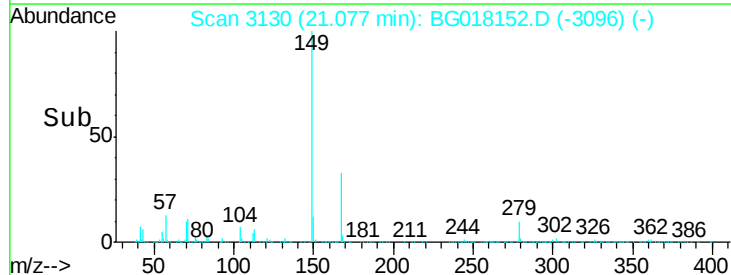
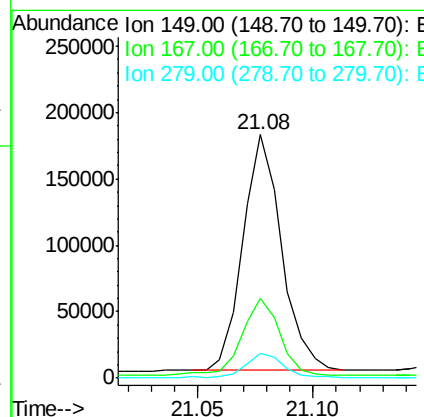
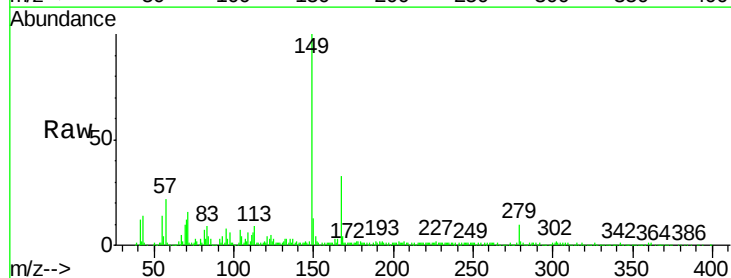
Instrument :  
BNA\_M  
ClientSampleId :  
C02K0

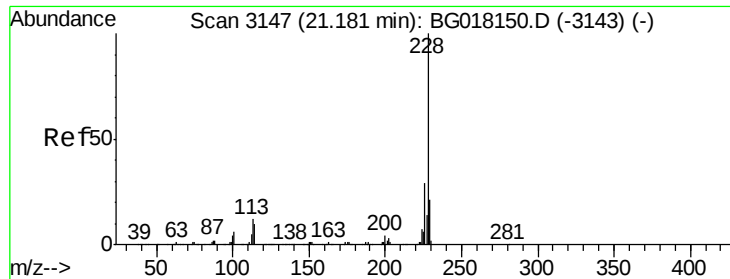
Tgt Ion:228 Resp: 512949  
Ion Ratio Lower Upper  
228 100  
229 21.9 16.6 24.8  
226 27.6 21.1 31.7



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 21.66 ng/ul  
RT: 21.08 min Scan# 3130  
Delta R.T. 0.00 min  
Lab File: BG018152.D  
Acq: 28 Jul 2015 18:36

Tgt Ion:149 Resp: 207192  
Ion Ratio Lower Upper  
149 100  
167 32.9 26.2 39.4  
279 9.9 7.2 10.8





#85

Chrysene

Concen: 35.96 ng/ul

RT: 21.18 min Scan# 3148

Delta R.T. 0.00 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

Instrument :

BNA\_M

ClientSampleId :

C02K0

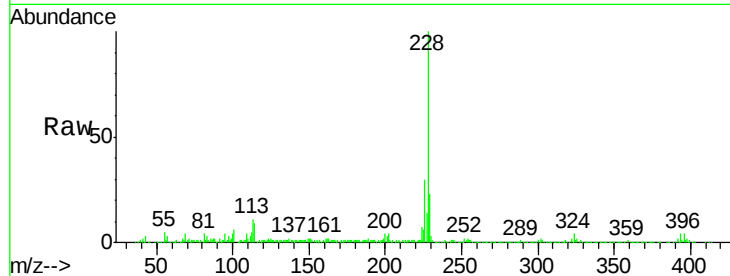
Tgt Ion:228 Resp: 510322

Ion Ratio Lower Upper

228 100

226 30.2 22.9 34.3

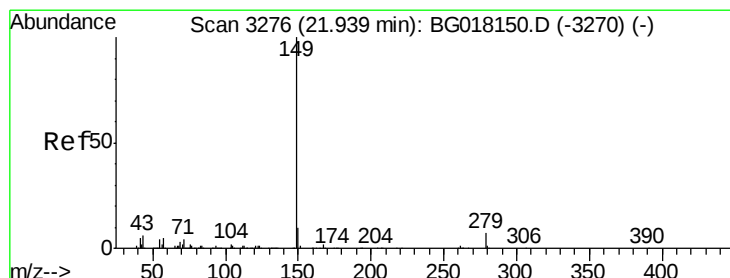
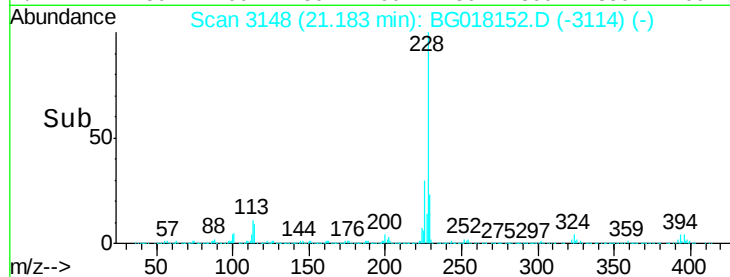
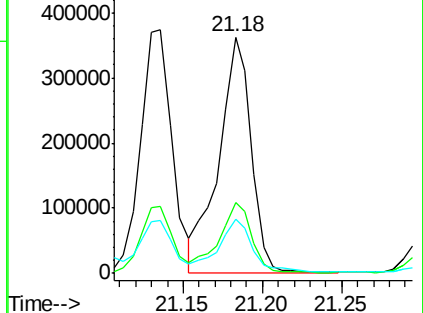
229 23.0 15.6 23.4



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



#87

Di-n-octyl phthalate

Concen: 3.04 ng/ul

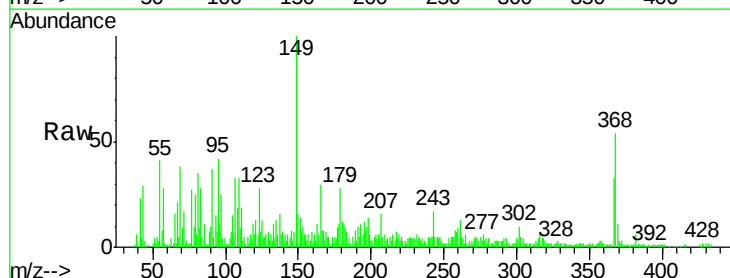
RT: 21.95 min Scan# 3278

Delta R.T. 0.01 min

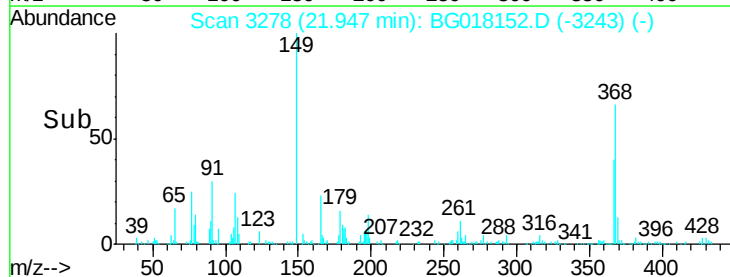
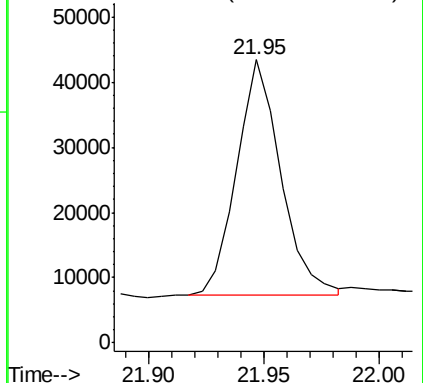
Lab File: BG018152.D

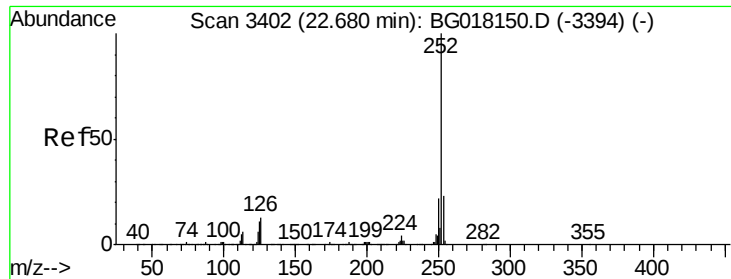
Acq: 28 Jul 2015 18:36

Tgt Ion:149 Resp: 48489



Abundance Ion 149.00 (148.70 to 149.70): E





#88

Benzo(b)fluoranthene

Concen: 45.19 ng/ul

RT: 22.69 min Scan# 3405

Delta R.T. 0.01 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

Instrument :

BNA\_M

ClientSampleId :

C02K0

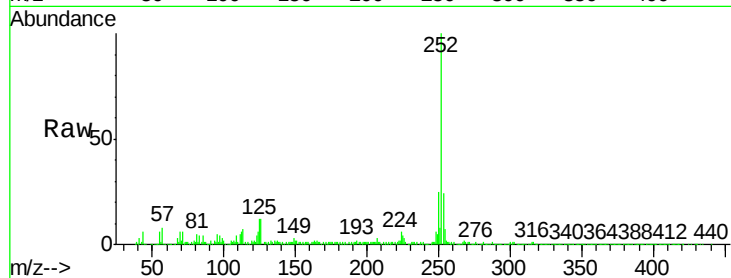
Tgt Ion:252 Resp: 737525

Ion Ratio Lower Upper

252 100

253 24.2 18.5 27.7

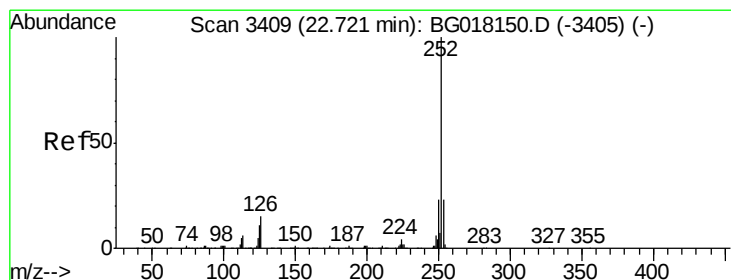
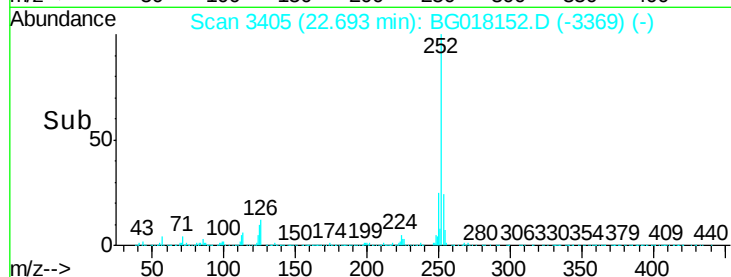
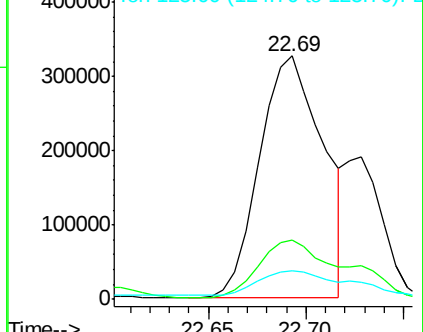
125 11.8 9.1 13.7



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

Benzo(k)fluoranthene

Concen: 46.69 ng/ul

RT: 22.69 min Scan# 3405

Delta R.T. -0.03 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

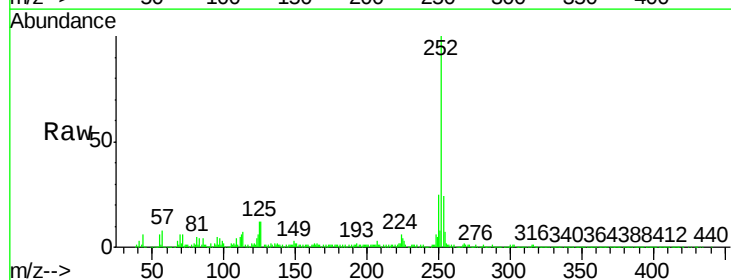
Tgt Ion:252 Resp: 737525

Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.8

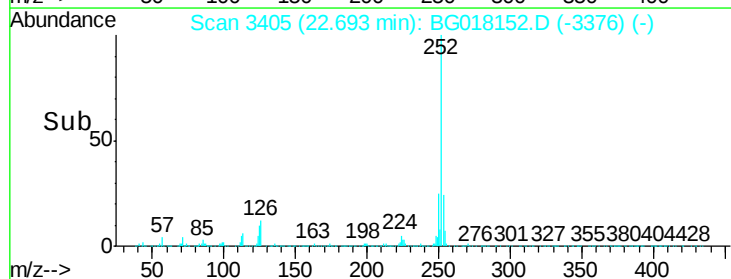
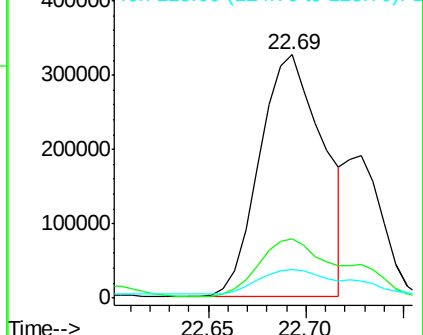
125 11.8 9.3 13.9

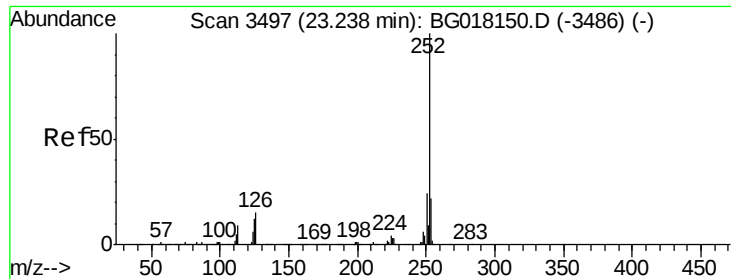


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 30.90 ng/ul

RT: 23.25 min Scan# 3500

Delta R.T. 0.01 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

Instrument :

BNA\_M

ClientSampleId :

C02K0

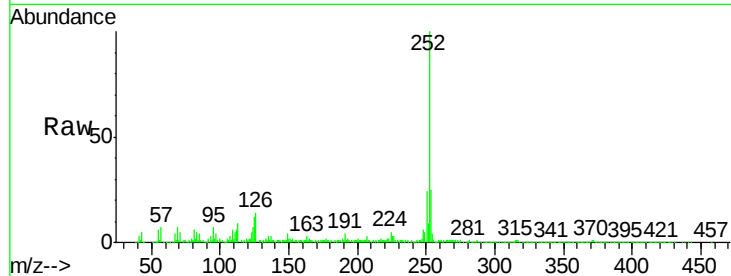
Tgt Ion:252 Resp: 488404

Ion Ratio Lower Upper

252 100

253 24.5 18.0 27.0

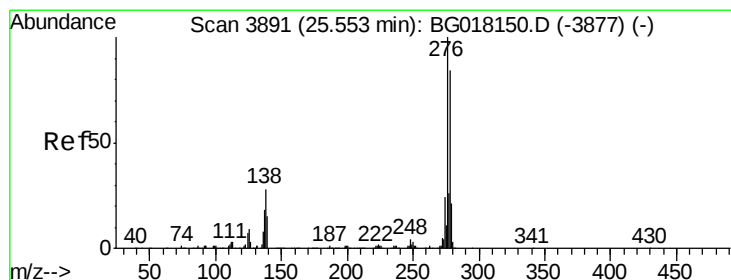
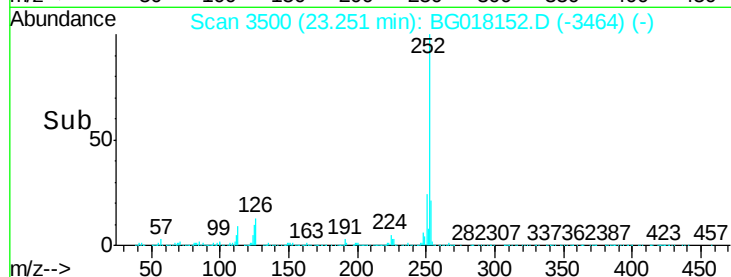
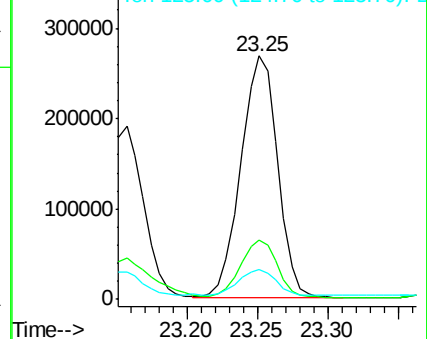
125 12.3 10.2 15.2



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 19.75 ng/ul

RT: 25.57 min Scan# 3894

Delta R.T. 0.01 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

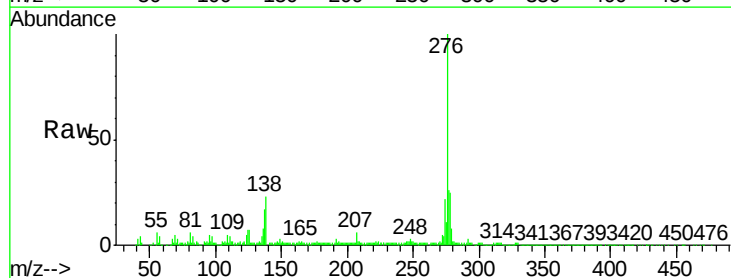
Tgt Ion:276 Resp: 360209

Ion Ratio Lower Upper

276 100

138 22.6 22.6 33.8

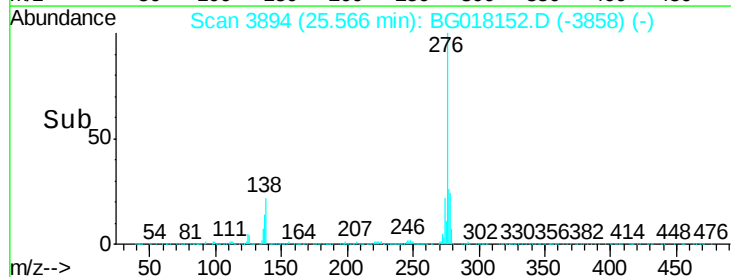
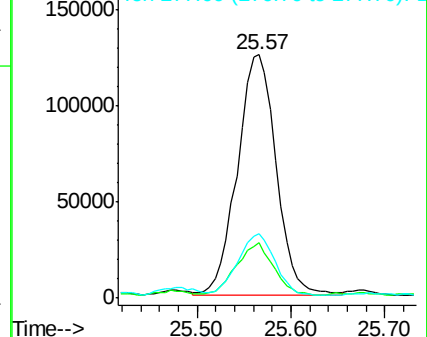
277 26.3 19.8 29.8

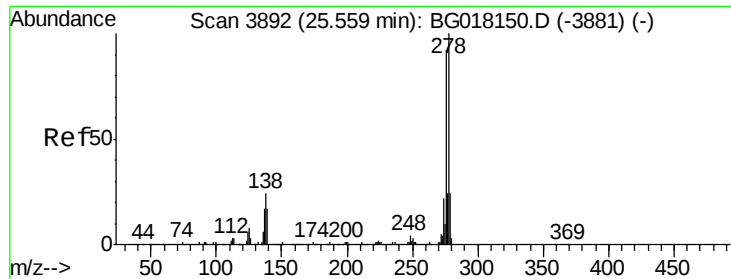


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 6.34 ng/ul

RT: 25.57 min Scan# 3895

Delta R.T. 0.01 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

Instrument :

BNA\_M

ClientSampleId :

C02K0

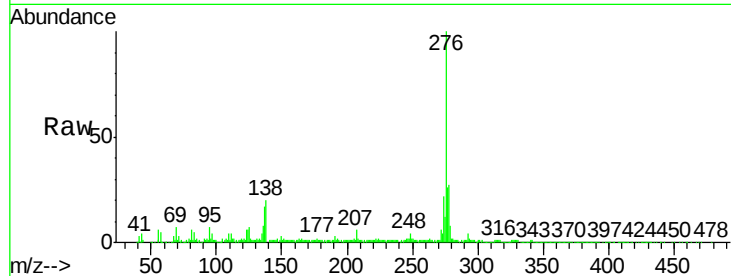
Tgt Ion:278 Resp: 98745

Ion Ratio Lower Upper

278 100

139 0.0 13.7 20.5#

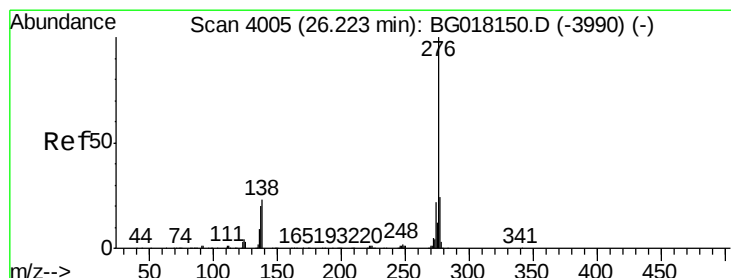
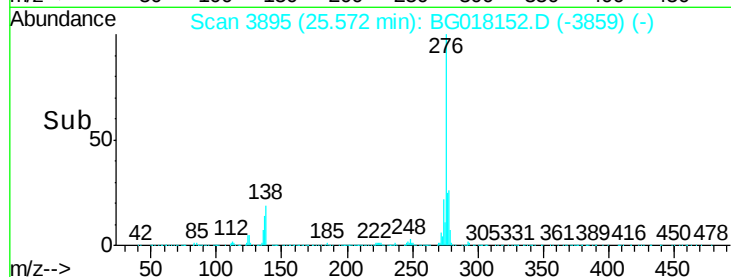
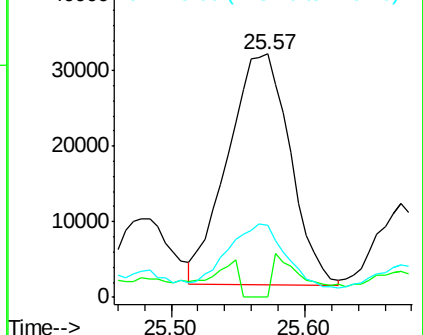
279 29.4 18.1 27.1#



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



#94

Benzo(g,h,i)perylene

Concen: 21.22 ng/ul

RT: 26.25 min Scan# 4010

Delta R.T. 0.02 min

Lab File: BG018152.D

Acq: 28 Jul 2015 18:36

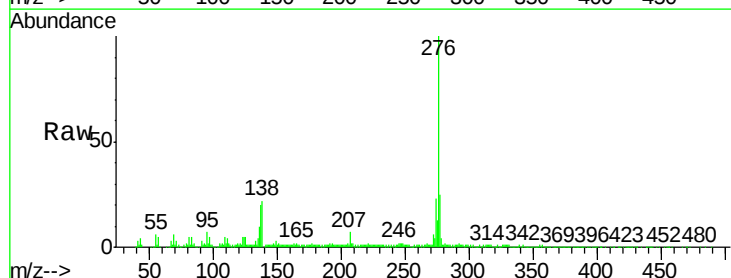
Tgt Ion:276 Resp: 319758

Ion Ratio Lower Upper

276 100

138 21.5 18.8 28.2

277 24.7 19.3 28.9



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

