

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG122215\  
 Data File : BG020464.D  
 Acq On : 24 Dec 2015 4:40  
 Operator : UM/SJ  
 Sample : G4848-17DL 10X  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N63MEDL

Quant Time: Dec 24 06:32:15 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 24 02:43:25 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.08  | 152  | 17965    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.90 | 136  | 79242    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.72 | 164  | 57874    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.46 | 188  | 142025   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.73 | 240  | 176271   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.00 | 264  | 167757   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0      | 0.00  | ng/uL |       |
| 5) Phenol-d5                   | 7.24  | 99  | 1772   | 1.12  | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.40  | 67  | 1110   | 1.17  | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.61  | 132 | 1601   | 1.39  | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.80  | 113 | 1359   | 1.00  | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.26  | 128 | 882    | 1.43  | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.98  | 143 | 473    | 0.69  | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.52 | 165 | 1789   | 1.28  | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.04 | 131 | 1562   | 1.00  | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 14.11 | 166 | 8525   | 1.82  | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.41 | 160 | 9823   | 1.80  | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00  | ng/ul |       |
| 58) Fluorene-d10               | 15.71 | 176 | 7992   | 1.88  | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.83 | 200 | 120    | 0.14  | ng/ul | 0.00  |
| 71) Anthracene-d10             | 17.46 | 188 | 142025 | 21.70 | ng/ul | -0.10 |
| 79) Pyrene-d10                 | 19.84 | 212 | 15138  | 1.84  | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 24.77 | 264 | 15261  | 1.82  | ng/ul | 0.00  |

## Target Compounds

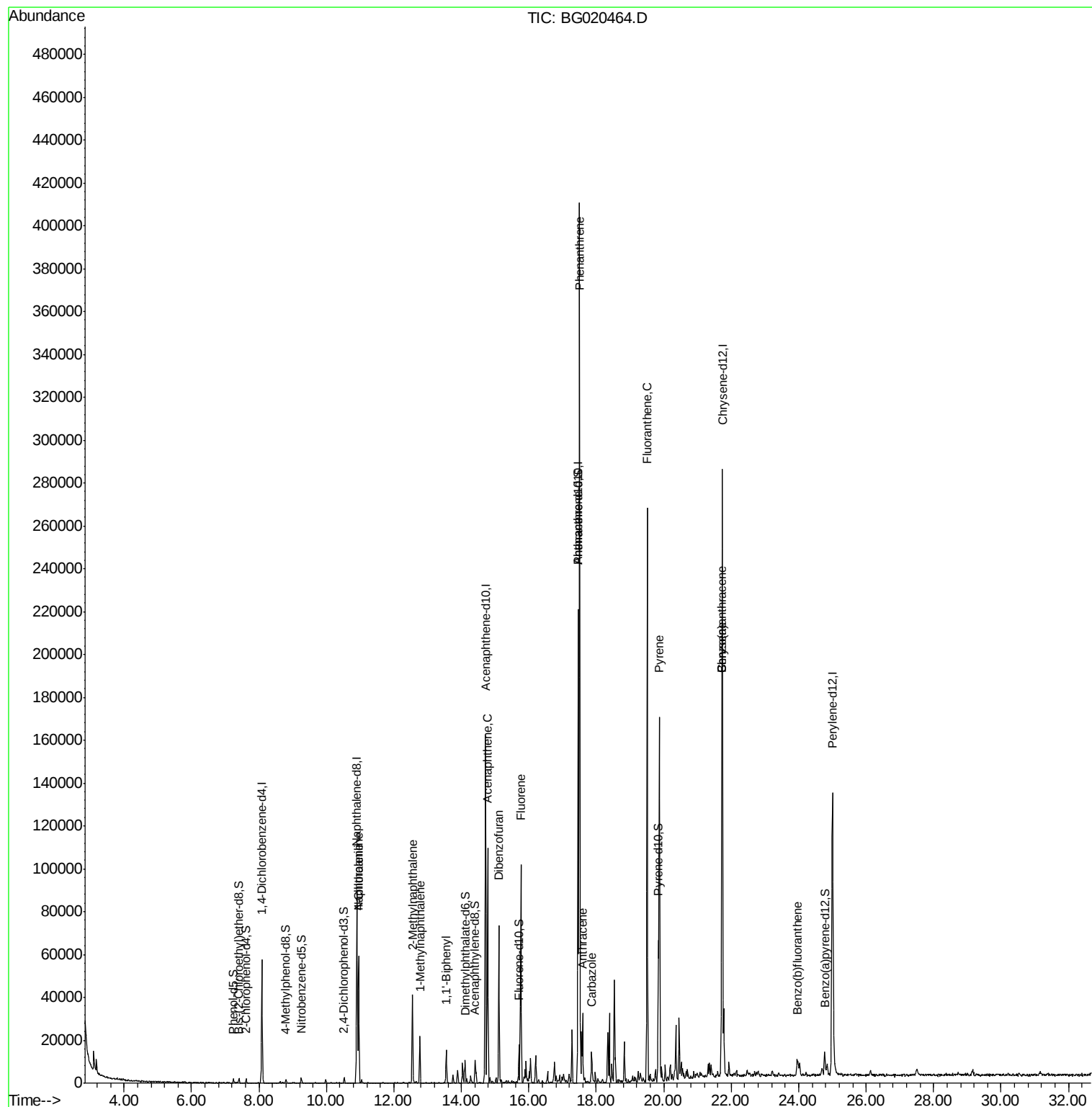
|                          |       |     |        |       |        | Qvalue |
|--------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene          | 10.95 | 128 | 51441  | 12.43 | ng/ul  | 98     |
| 30) 4-Chloroaniline      | 10.95 | 127 | 7272   | 4.55  | ng/ul# | 7      |
| 34) 2-Methylnaphthalene  | 12.55 | 142 | 22007  | 6.96  | ng/ul  | 93     |
| 35) 1-Methylnaphthalene  | 12.77 | 142 | 11057  | 3.64  | ng/ul  | 97     |
| 41) 1,1'-Biphenyl        | 13.55 | 154 | 9738   | 2.23  | ng/ul# | 94     |
| 50) Acenaphthene         | 14.78 | 153 | 49625  | 12.75 | ng/ul  | 99     |
| 54) Dibenzofuran         | 15.11 | 168 | 50188  | 8.67  | ng/ul  | 99     |
| 59) Fluorene             | 15.76 | 166 | 49268  | 10.59 | ng/ul  | 99     |
| 70) Phenanthrene         | 17.50 | 178 | 272828 | 35.12 | ng/ul  | 100    |
| 72) Anthracene           | 17.59 | 178 | 25054  | 3.18  | ng/ul  | 99     |
| 75) Carbazole            | 17.87 | 167 | 11506  | 1.74  | ng/ul  | 97     |
| 77) Fluoranthene         | 19.51 | 202 | 180279 | 19.86 | ng/ul  | 96     |
| 80) Pyrene               | 19.87 | 202 | 120250 | 11.27 | ng/ul  | 98     |
| 83) Benzo(a)anthracene   | 21.72 | 228 | 28263  | 2.75  | ng/ul  | 97     |
| 85) Chrysene             | 21.72 | 228 | 28263  | 2.92  | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene | 23.97 | 252 | 11131  | 1.10  | ng/ul# | 94     |

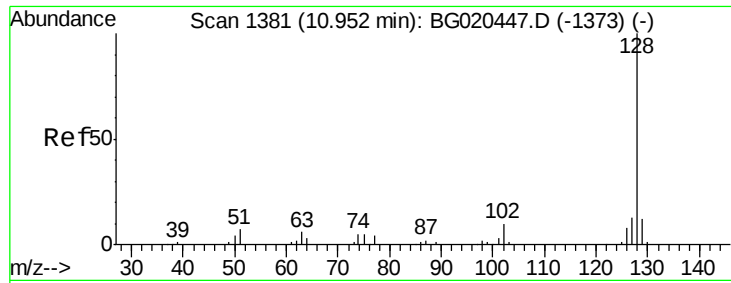
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 24 02:43:25 2015  
Response via : Initial Calibration

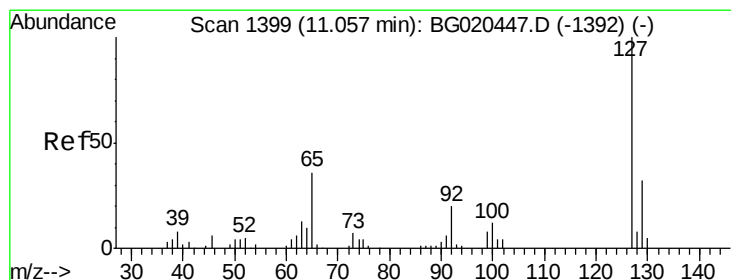
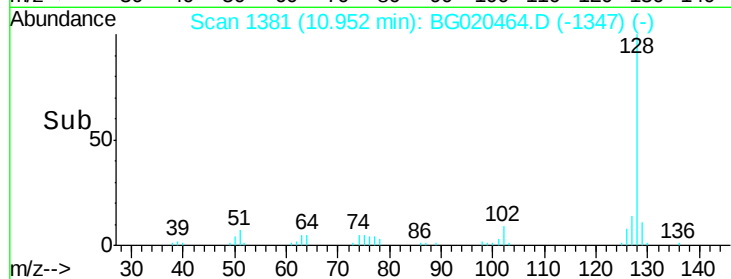
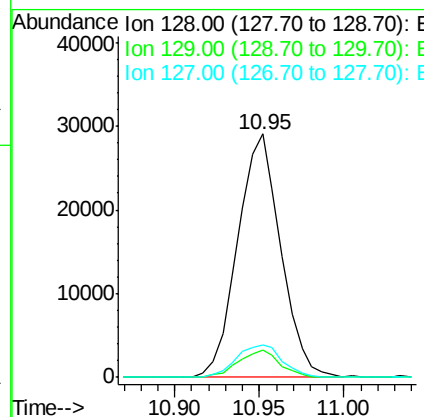
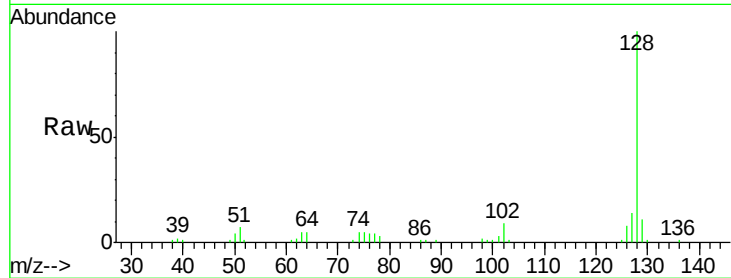




#28  
Naphthalene  
Concen: 12.43 ng/ul  
RT: 10.95 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: BG020464.D  
Acq: 24 Dec 2015 4:40

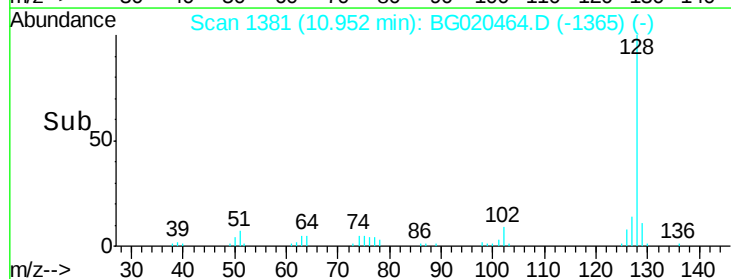
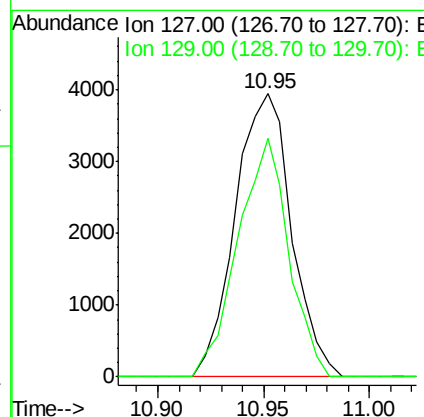
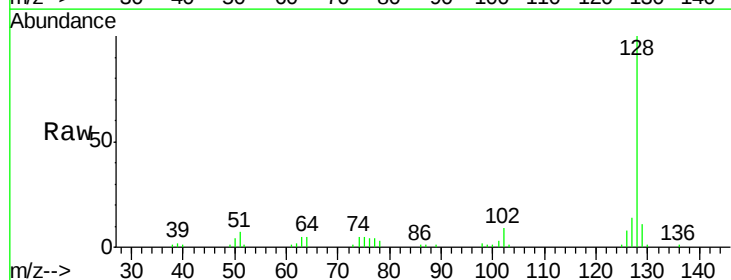
Instrument :  
BNA\_G  
ClientSampleId :  
D9N63MEDL

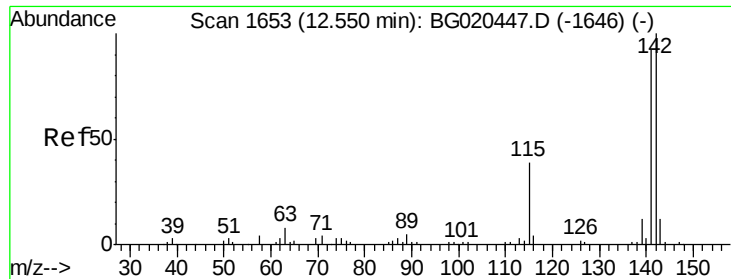
Tgt Ion:128 Resp: 51441  
Ion Ratio Lower Upper  
128 100  
129 11.4 8.6 12.8  
127 13.6 10.1 15.1



#30  
4-Chloroaniline  
Concen: 4.55 ng/ul  
RT: 10.95 min Scan# 1381  
Delta R.T. -0.11 min  
Lab File: BG020464.D  
Acq: 24 Dec 2015 4:40

Tgt Ion:127 Resp: 7272  
Ion Ratio Lower Upper  
127 100  
129 84.1 25.7 38.5#

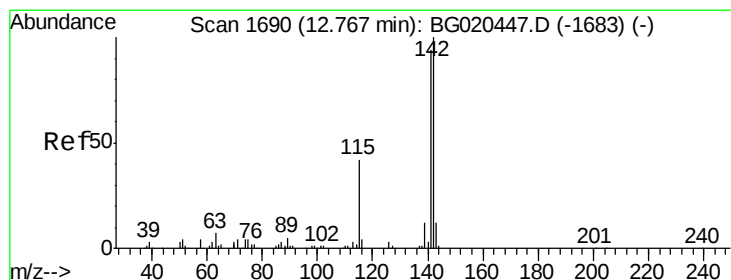
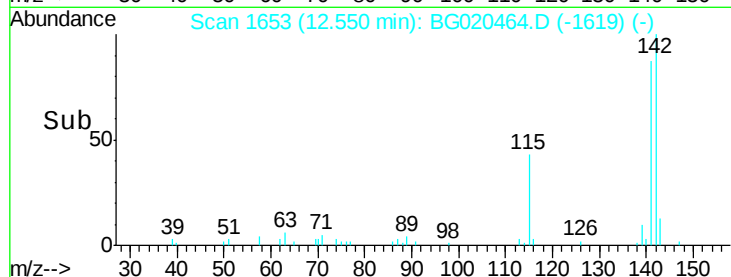
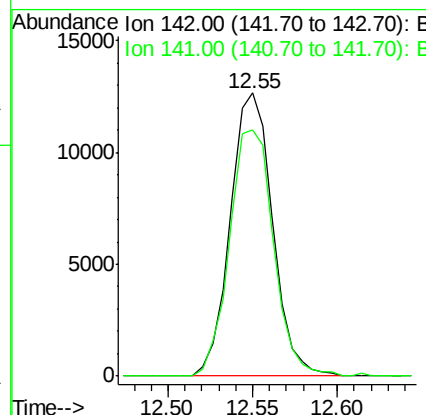
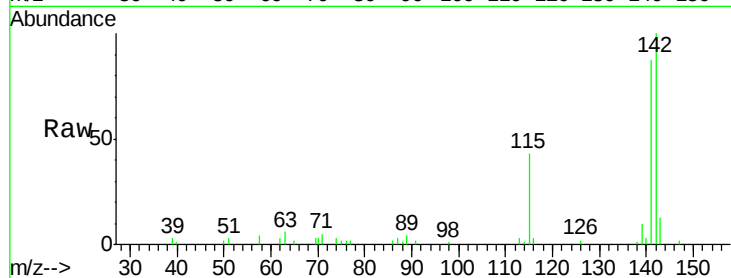




#34  
 2-Methylnaphthalene  
 Concen: 6.96 ng/ul  
 RT: 12.55 min Scan# 1653  
 Delta R.T. 0.00 min  
 Lab File: BG020464.D  
 Acq: 24 Dec 2015 4:40

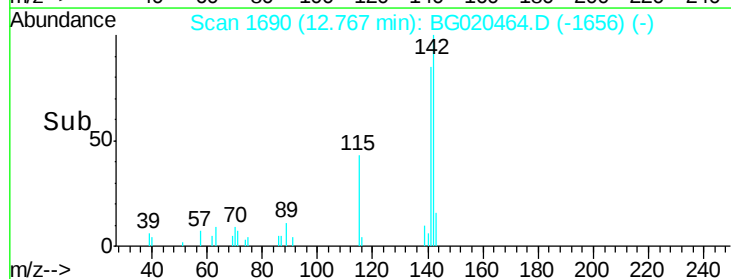
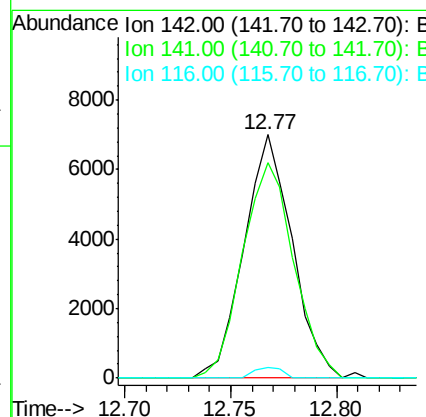
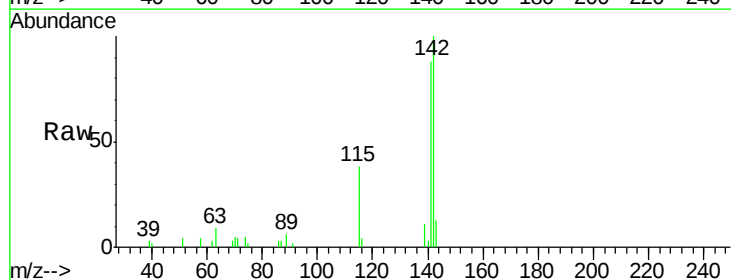
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N63MEDL

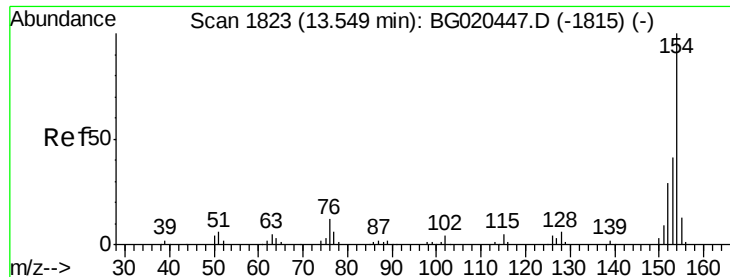
Tgt Ion:142 Resp: 22007  
 Ion Ratio Lower Upper  
 142 100  
 141 87.0 74.9 112.3



#35  
 1-Methylnaphthalene  
 Concen: 3.64 ng/ul  
 RT: 12.77 min Scan# 1690  
 Delta R.T. 0.00 min  
 Lab File: BG020464.D  
 Acq: 24 Dec 2015 4:40

Tgt Ion:142 Resp: 11057  
 Ion Ratio Lower Upper  
 142 100  
 141 88.3 73.0 109.6  
 116 4.4 3.0 4.6

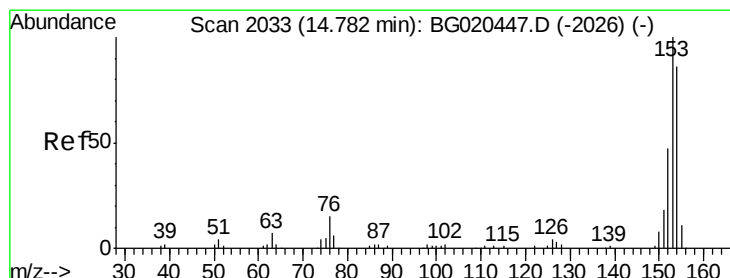
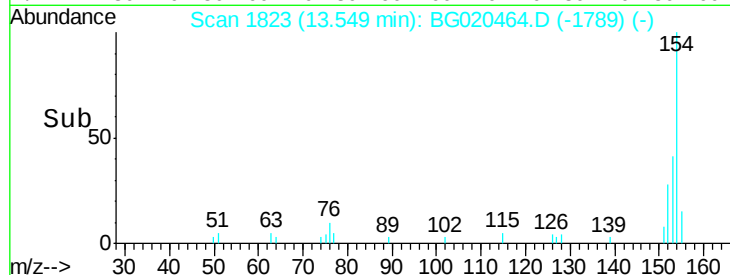
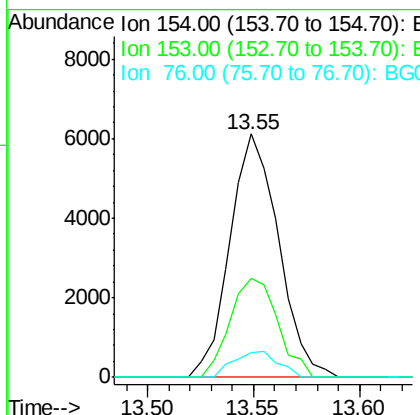
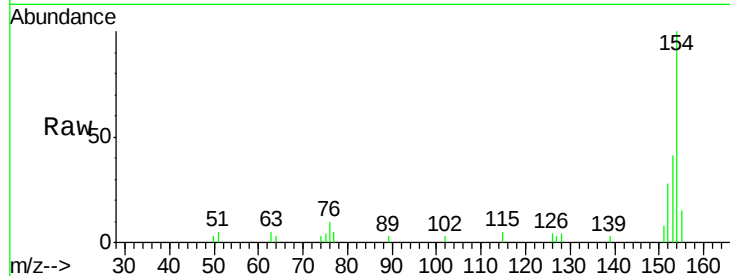




#41  
 1,1'-Biphenyl  
 Concen: 2.23 ng/ul  
 RT: 13.55 min Scan# 1823  
 Delta R.T. 0.00 min  
 Lab File: BG020464.D  
 Acq: 24 Dec 2015 4:40

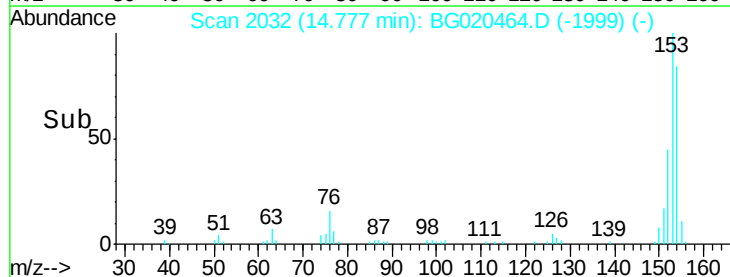
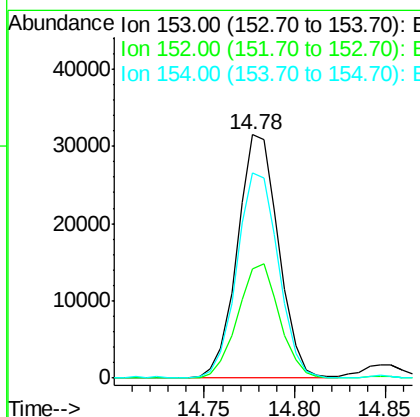
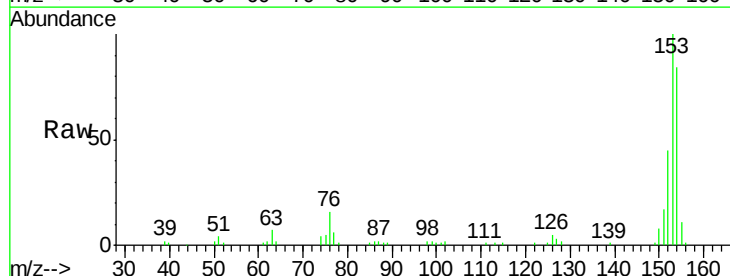
Instrument :  
 BNA\_G  
 ClientSampleId :  
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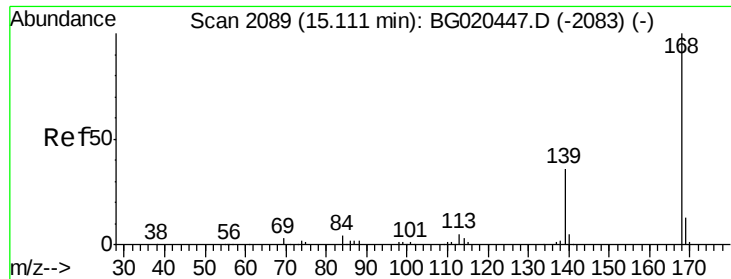
Tgt Ion:154 Resp: 9738  
 Ion Ratio Lower Upper  
 154 100  
 153 40.6 35.5 53.3  
 76 10.3 10.4 15.6#



#50  
 Acenaphthene  
 Concen: 12.75 ng/ul  
 RT: 14.78 min Scan# 2032  
 Delta R.T. -0.01 min  
 Lab File: BG020464.D  
 Acq: 24 Dec 2015 4:40

Tgt Ion:153 Resp: 49625  
 Ion Ratio Lower Upper  
 153 100  
 152 45.0 37.6 56.4  
 154 84.3 67.9 101.9





#54

Dibenzenofuran

Concen: 8.67 ng/ul

RT: 15.11 min Scan# 2089

Delta R.T. 0.00 min

Lab File: BG020464.D

Acq: 24 Dec 2015 4:40

Instrument :

BNA\_G

ClientSampleId :

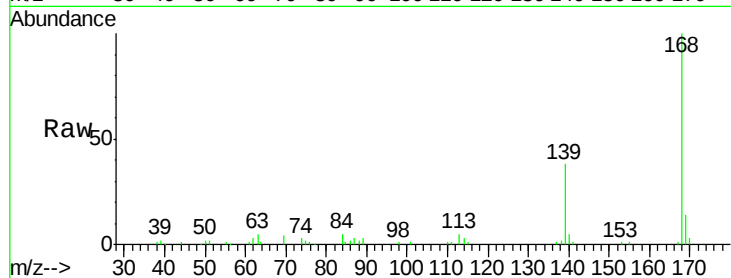
D9N63MEDL

Tgt Ion:168 Resp: 50188

Ion Ratio Lower Upper

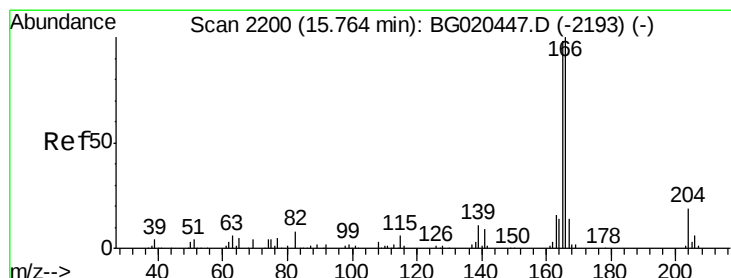
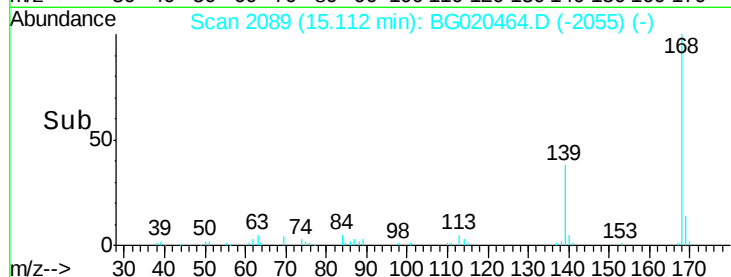
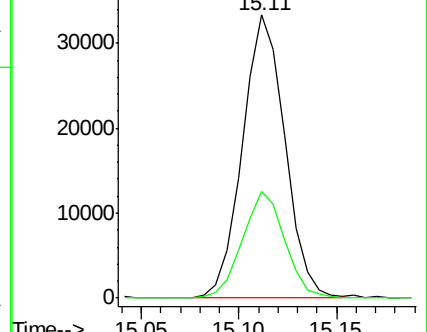
168 100

139 37.5 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 10.59 ng/ul

RT: 15.76 min Scan# 2200

Delta R.T. 0.00 min

Lab File: BG020464.D

Acq: 24 Dec 2015 4:40

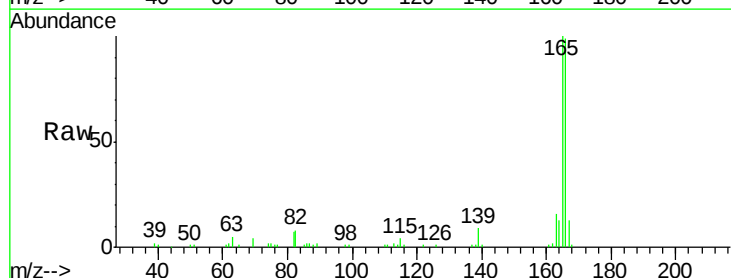
Tgt Ion:166 Resp: 49268

Ion Ratio Lower Upper

166 100

165 100.6 81.4 122.0

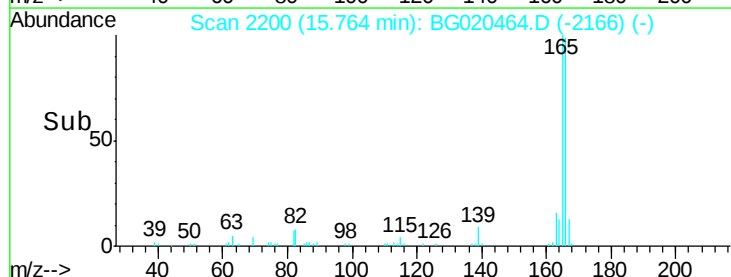
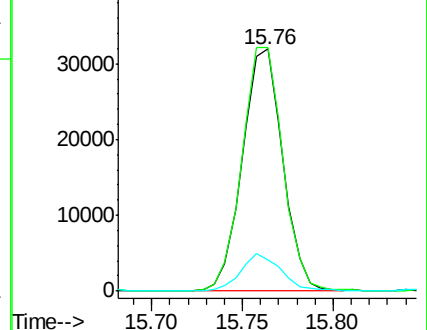
167 12.9 11.2 16.8

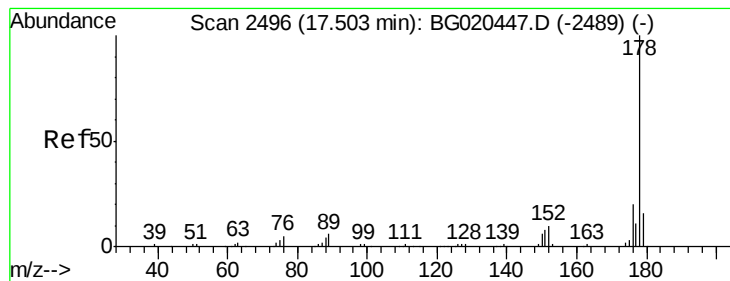


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 35.12 ng/u1

RT: 17.50 min Scan# 2496

Delta R.T. 0.00 min

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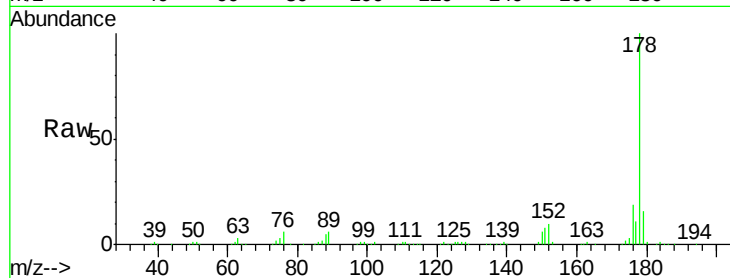
Tgt Ion:178 Resp: 272828

Ion Ratio Lower Upper

178 100

179 16.3 12.9 19.3

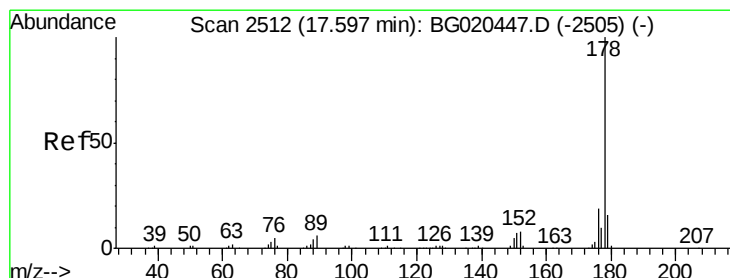
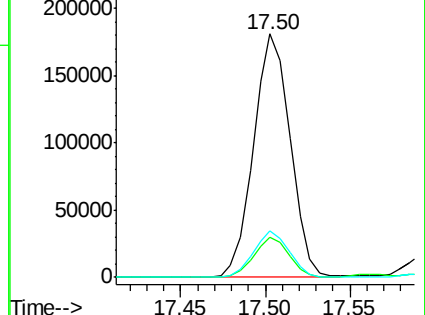
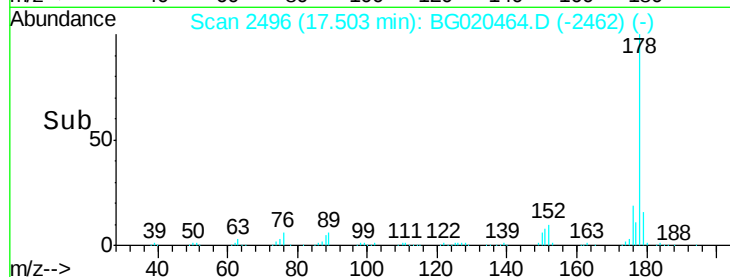
176 19.1 15.3 22.9



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



#72

Anthracene

Concen: 3.18 ng/u1

RT: 17.59 min Scan# 2511

Delta R.T. -0.01 min

Lab File: BG020464.D

Acq: 24 Dec 2015 4:40

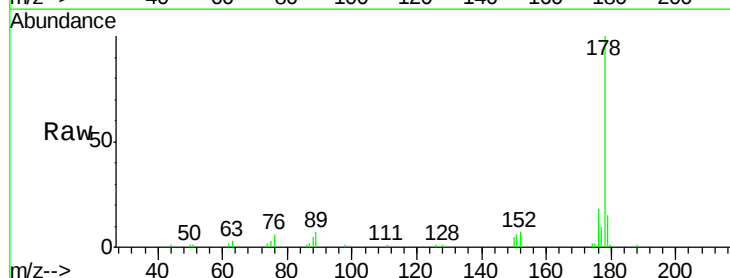
Tgt Ion:178 Resp: 25054

Ion Ratio Lower Upper

178 100

179 15.1 12.3 18.5

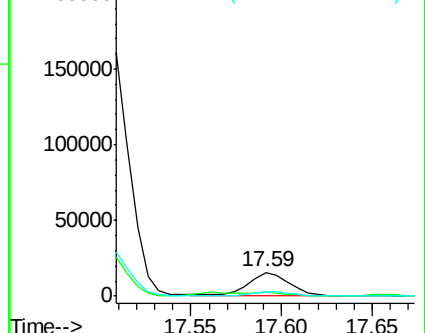
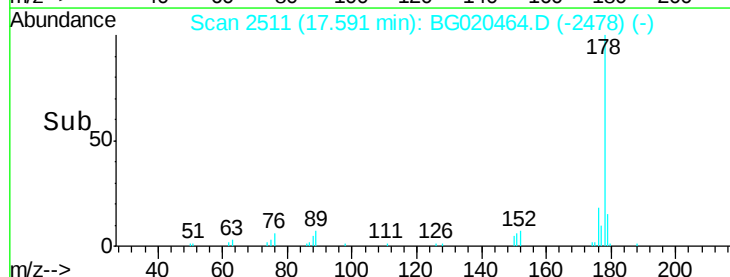
176 17.7 14.3 21.5

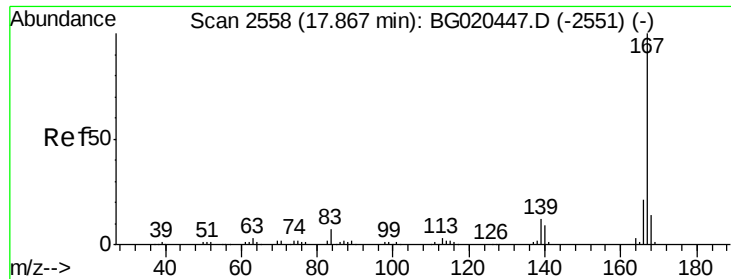


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 1.74 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. 0.00 min

Lab File: BG020464.D

Acq: 24 Dec 2015 4:40

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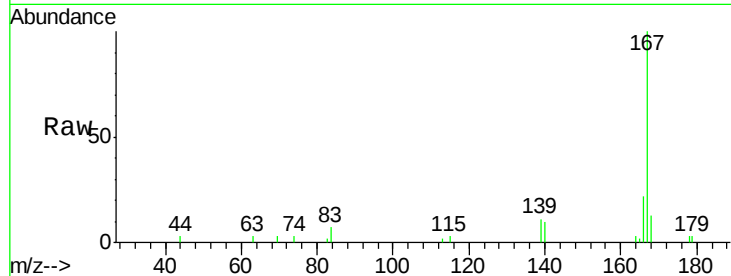
Tgt Ion:167 Resp: 11506

Ion Ratio Lower Upper

167 100

166 21.9 17.0 25.6

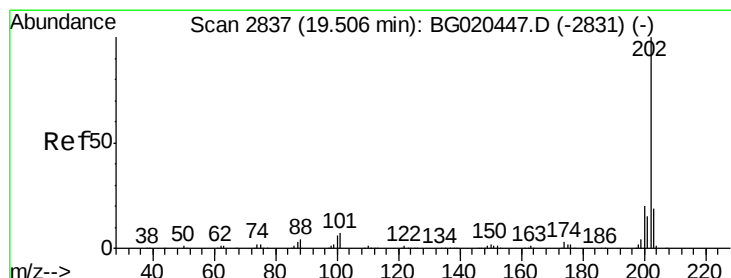
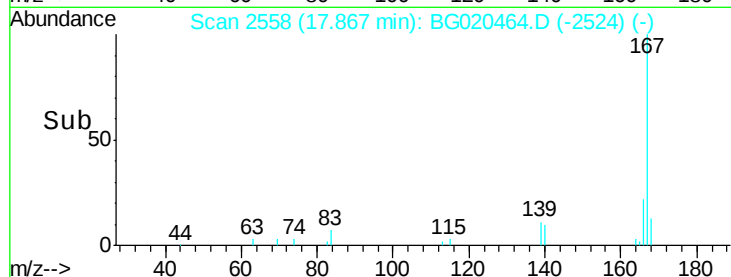
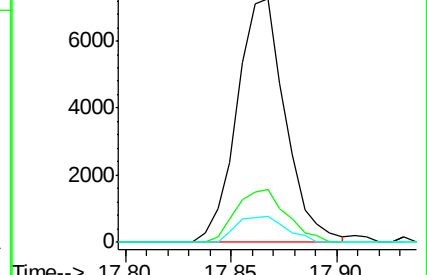
139 10.6 10.1 15.1



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



#77

Fluoranthene

Concen: 19.86 ng/ul

RT: 19.51 min Scan# 2838

Delta R.T. 0.01 min

Lab File: BG020464.D

Acq: 24 Dec 2015 4:40

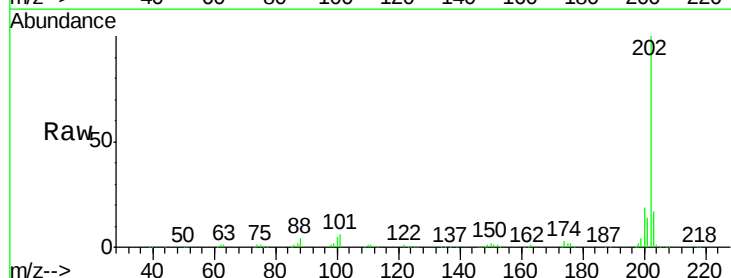
Tgt Ion:202 Resp: 180279

Ion Ratio Lower Upper

202 100

101 6.5 6.2 9.4

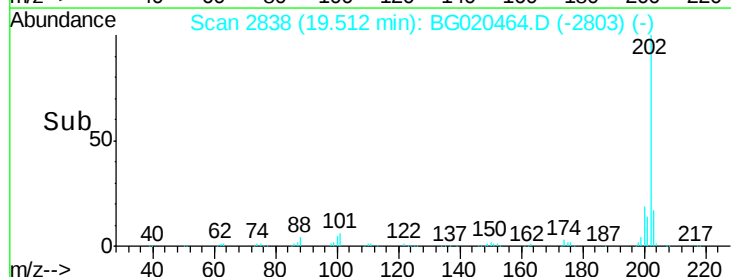
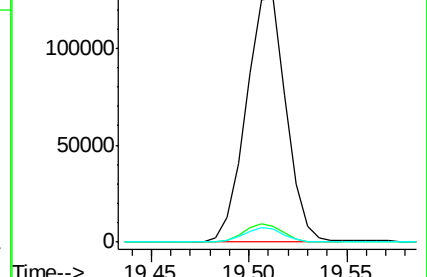
100 5.2 5.1 7.7

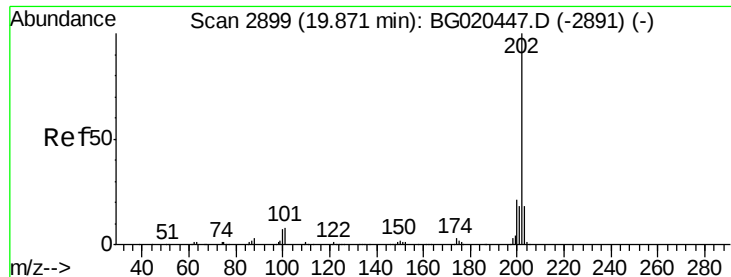


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Pyrene

Concen: 11.27 ng/ul

RT: 19.87 min Scan# 2899

Delta R.T. 0.00 min

Lab File: BG020464.D

Acq: 24 Dec 2015 4:40

Instrument :

BNA\_G

ClientSampleId :

D9N63MEDL

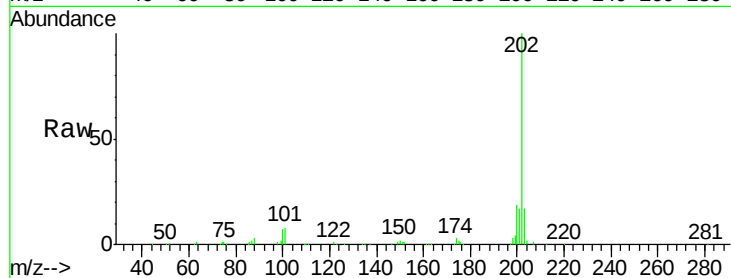
Tgt Ion:202 Resp: 120250

Ion Ratio Lower Upper

202 100

101 7.7 7.0 10.4

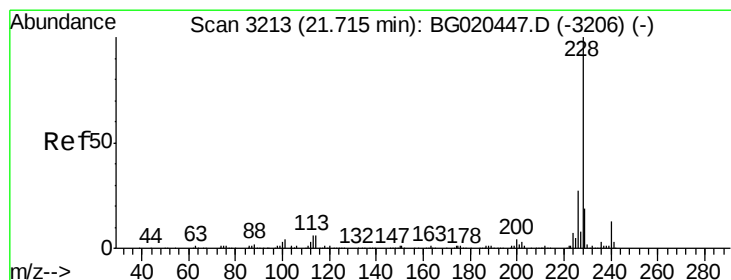
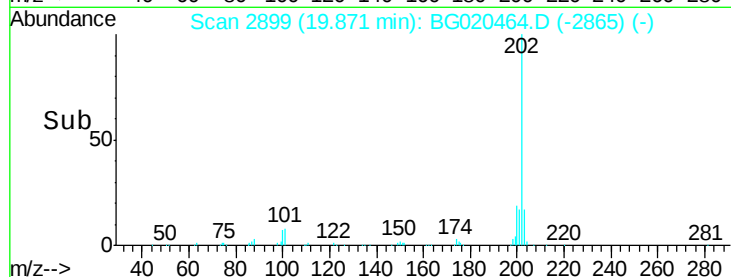
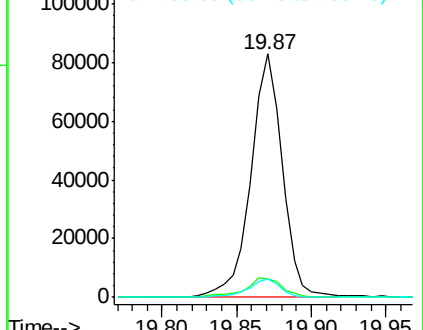
100 7.4 6.4 9.6



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



#83

Benzo(a)anthracene

Concen: 2.75 ng/ul

RT: 21.72 min Scan# 3213

Delta R.T. 0.00 min

Lab File: BG020464.D

Acq: 24 Dec 2015 4:40

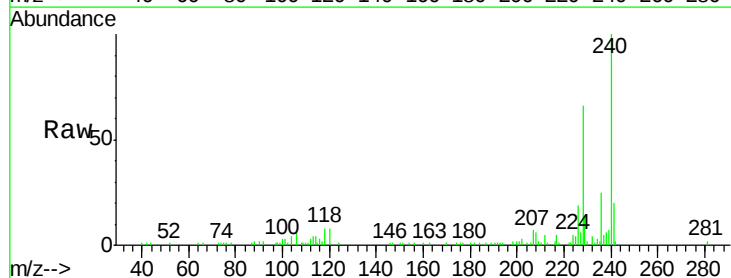
Tgt Ion:228 Resp: 28263

Ion Ratio Lower Upper

228 100

229 21.0 15.8 23.8

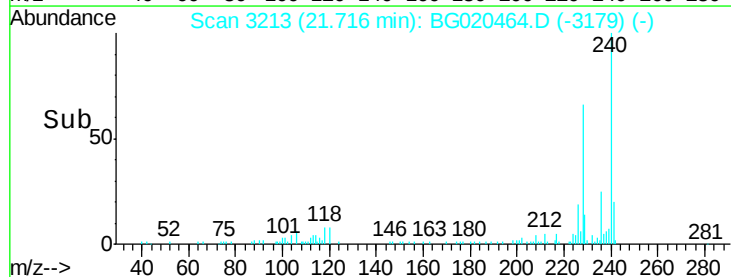
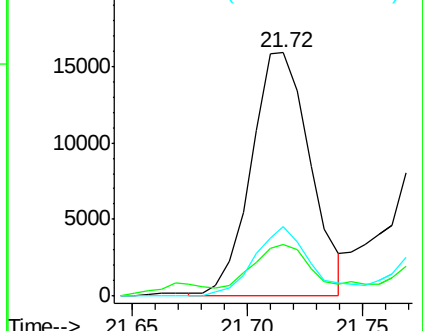
226 28.5 21.8 32.6

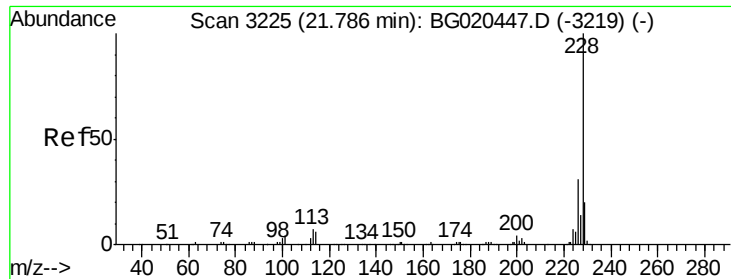


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

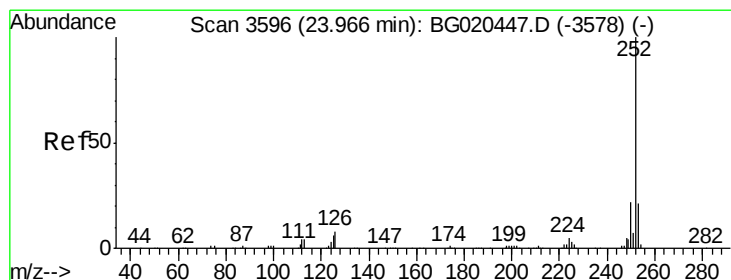
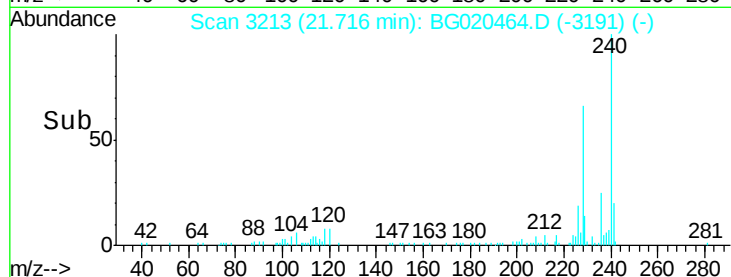
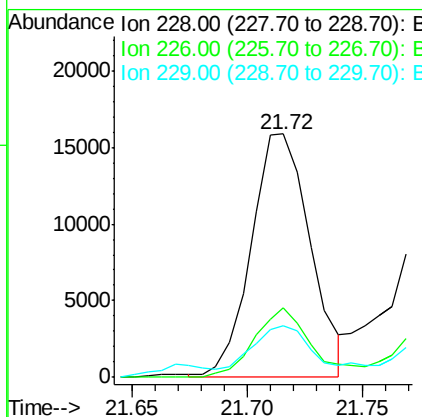
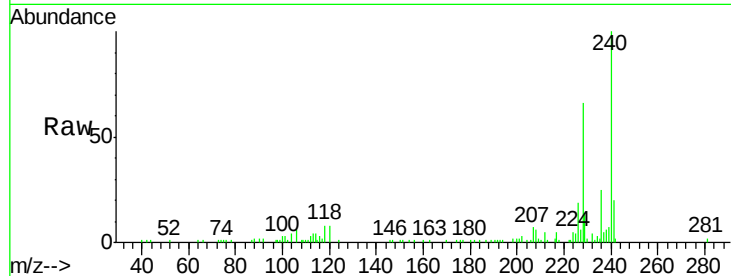




#85  
 Chrysene  
 Concen: 2.92 ng/ul  
 RT: 21.72 min Scan# 3213  
 Delta R.T. -0.07 min  
 Lab File: BG020464.D  
 Acq: 24 Dec 2015 4:40

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N63MEDL

Tgt Ion: 228 Resp: 28263  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 23.9 35.9  
 229 21.0 15.6 23.4



#88  
 Benzo(b)fluoranthene  
 Concen: 1.10 ng/ul  
 RT: 23.97 min Scan# 3597  
 Delta R.T. 0.01 min  
 Lab File: BG020464.D  
 Acq: 24 Dec 2015 4:40

Tgt Ion: 252 Resp: 11131  
 Ion Ratio Lower Upper  
 252 100  
 253 17.7 16.7 25.1  
 125 5.9 6.2 9.2#

