

Data File : BM010642.D  
Acq On : 22 Jun 2017 02:39  
Operator : SJ/JU  
Sample : I3558-12  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F5C85

Quant Time: Jun 22 04:08:24 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 22 01:38:18 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.46  | 152  | 77708    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.23 | 136  | 353853   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.12 | 164  | 238615   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.87 | 188  | 564947   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.09 | 240  | 592195   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.24 | 264  | 428849   | 20.00 | ng/ul | 0.01     |

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| System Monitoring Compounds    |       |     |        |       |       |      |
| 3) 1,4-Dioxane-d8              | 3.08  | 96  | 5490   | 4.05  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.65  | 99  | 157317 | 21.25 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.82  | 67  | 82631  | 19.55 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.00  | 132 | 115834 | 22.31 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.17  | 113 | 134505 | 21.92 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.61  | 128 | 61454  | 24.35 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.32  | 143 | 72668  | 24.99 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.85  | 165 | 144491 | 23.60 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.37 | 131 | 159362 | 24.70 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.54 | 166 | 500262 | 23.88 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.80 | 160 | 577170 | 23.69 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.32 | 143 | 78360  | 21.26 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.12 | 176 | 427035 | 23.58 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.24 | 200 | 86832  | 25.03 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 16.97 | 188 | 688075 | 25.22 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.28 | 212 | 788244 | 28.65 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.10 | 264 | 490274 | 23.65 | ng/ul | 0.01 |

|                            |       |     |         |        |        |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds           |       |     |         | Qvalue |        |     |
| 6) Phenol                  | 6.67  | 94  | 15359   | 2.01   | ng/ul  | 91  |
| 28) Naphthalene            | 10.27 | 128 | 38872   | 2.21   | ng/ul  | 99  |
| 44) Dimethylphthalate      | 13.59 | 163 | 279193  | 13.60  | ng/ul  | 99  |
| 47) Acenaphthylene         | 13.83 | 152 | 113420  | 4.89   | ng/ul  | 98  |
| 69) Phenanthrene           | 16.91 | 178 | 163617  | 5.45   | ng/ul  | 98  |
| 71) Anthracene             | 17.00 | 178 | 308103  | 9.96   | ng/ul  | 98  |
| 72) Carbazole              | 17.27 | 167 | 116240  | 4.31   | ng/ul  | 97  |
| 74) Fluoranthene           | 18.94 | 202 | 2622308 | 67.75  | ng/ul# | 96  |
| 77) Pyrene                 | 19.32 | 202 | 3158039 | 92.33  | ng/ul# | 97  |
| 80) Benzo(a)anthracene     | 21.07 | 228 | 1857074 | 53.85  | ng/ul  | 96  |
| 82) Chrysene               | 21.13 | 228 | 2194055 | 71.36  | ng/ul  | 97  |
| 85) Benzo(b)fluoranthene   | 22.62 | 252 | 3493489 | 125.49 | ng/ul# | 99  |
| 86) Benzo(k)fluoranthene   | 22.62 | 252 | 3493489 | 132.37 | ng/ul# | 98  |
| 88) Benzo(a)pyrene         | 23.15 | 252 | 1343333 | 52.42  | ng/ul  | 100 |
| 89) Indeno(1,2,3-cd)pyrene | 25.36 | 276 | 816757  | 30.73  | ng/ul  | 98  |
| 90) Dibenzo(a,h)anthracene | 25.36 | 278 | 241581  | 10.91  | ng/ul# | 93  |
| 91) Benzo(g,h,i)perylene   | 26.00 | 276 | 597841  | 28.25  | ng/ul  | 99  |

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

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ClientSampleId :

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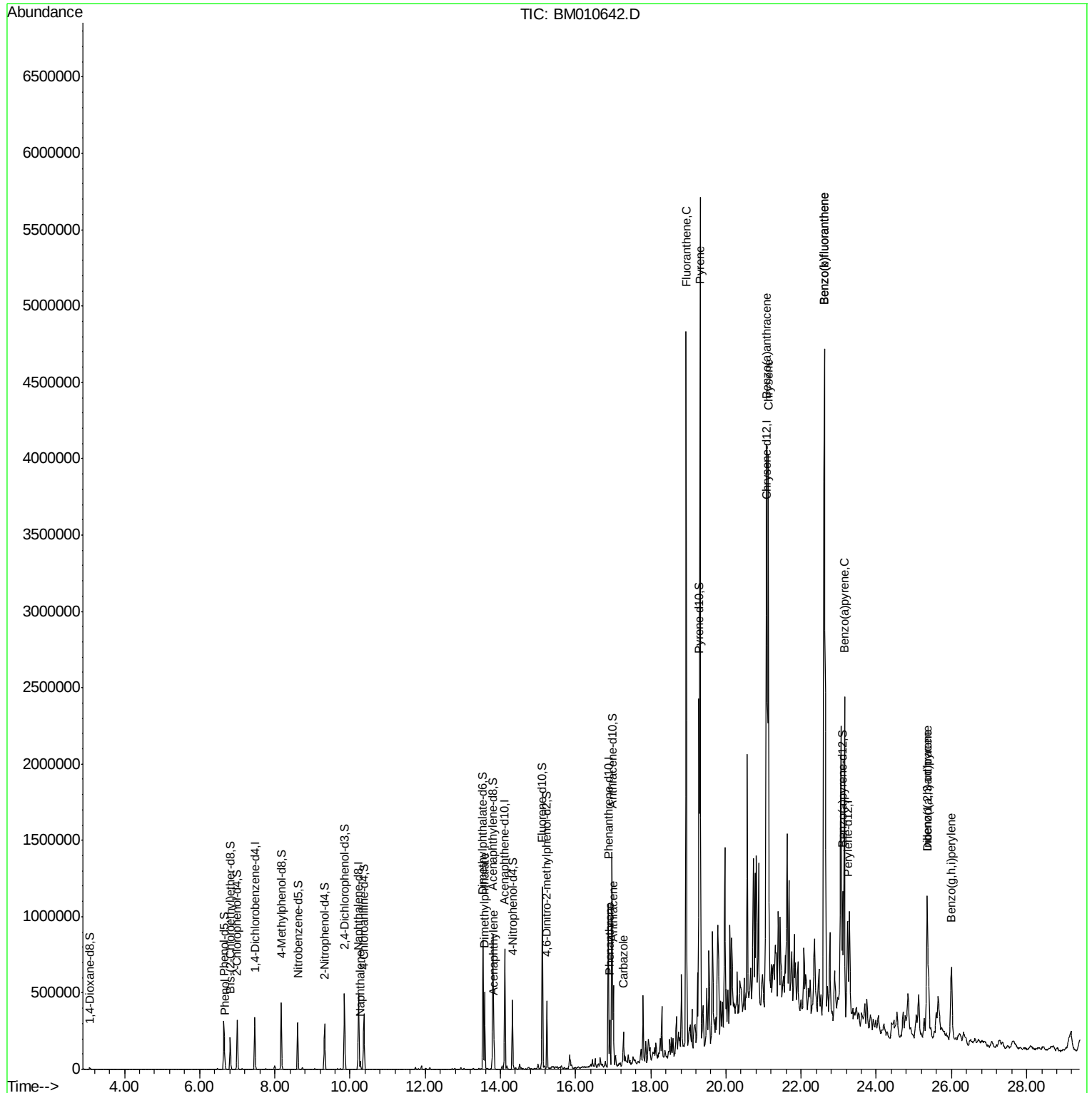
Quant Time: Jun 22 04:08:24 2017

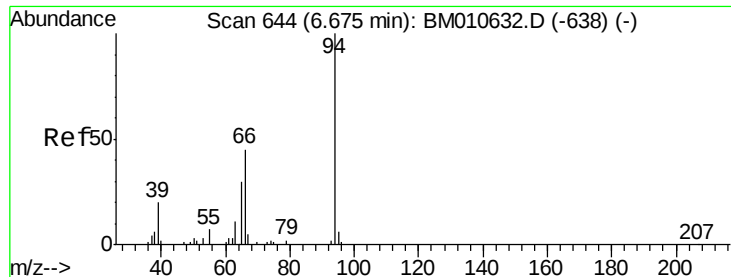
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M

Quant Title : SVOA CALIBRATION

QLast Update : Thu Jun 22 01:38:18 2017

Response via : Initial Calibration





#6

Phenol

Concen: 2.01 ng/ul

RT: 6.67 min Scan# 644

Delta R.T. -0.00 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

Instrument :

BNA\_M

ClientSampleId :

F5C85

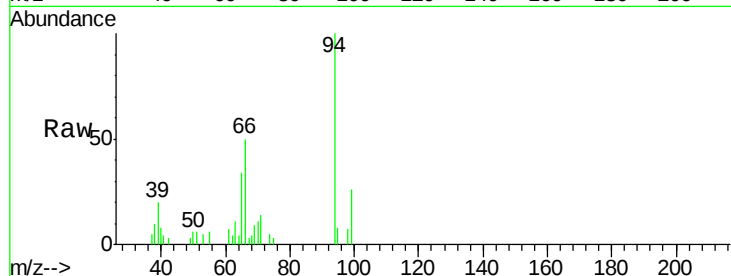
Tgt Ion: 94 Resp: 15359

Ion Ratio Lower Upper

94 100

65 33.9 28.2 42.4

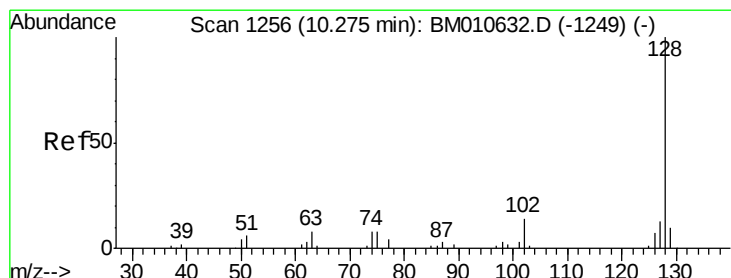
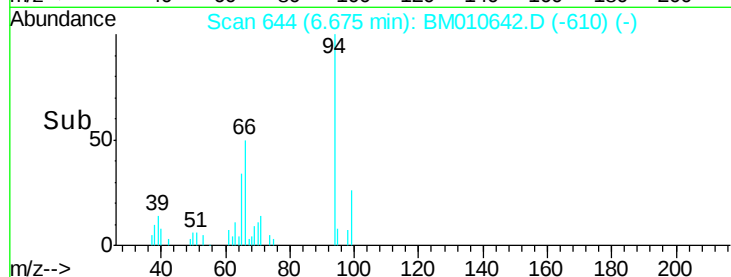
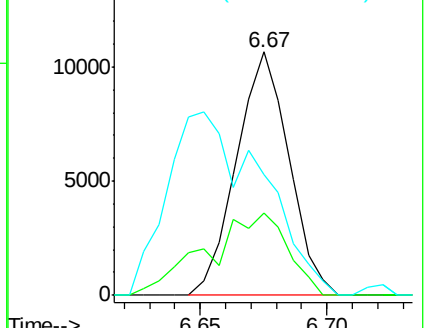
66 49.5 47.2 70.8



Abundance Ion 94.00 (93.70 to 94.70): BM010642.D (-610) (-)

Ion 65.00 (64.70 to 65.70): BM010642.D (-610) (-)

Ion 66.00 (65.70 to 66.70): BM010642.D (-610) (-)



#28

Naphthalene

Concen: 2.21 ng/ul

RT: 10.27 min Scan# 1256

Delta R.T. -0.00 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

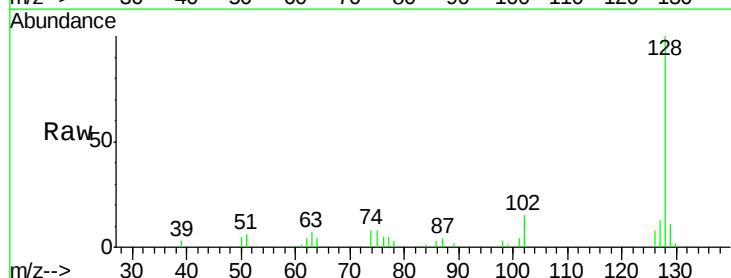
Tgt Ion: 128 Resp: 38872

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

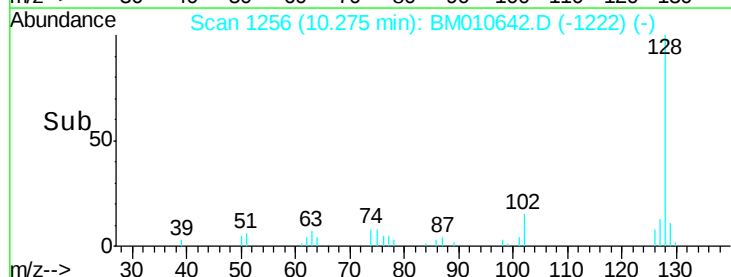
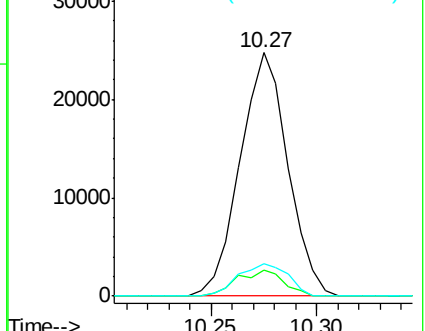
127 13.2 10.6 16.0

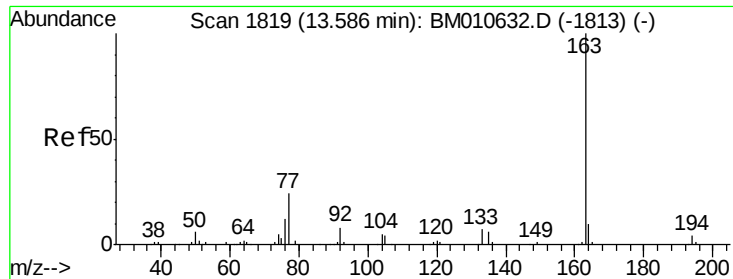


Abundance Ion 128.00 (127.70 to 128.70): BM010642.D (-1222) (-)

Ion 129.00 (128.70 to 129.70): BM010642.D (-1222) (-)

Ion 127.00 (126.70 to 127.70): BM010642.D (-1222) (-)

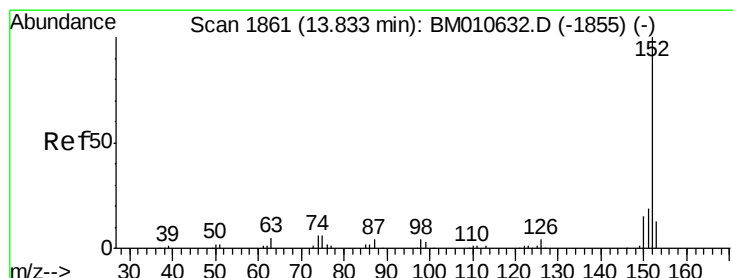
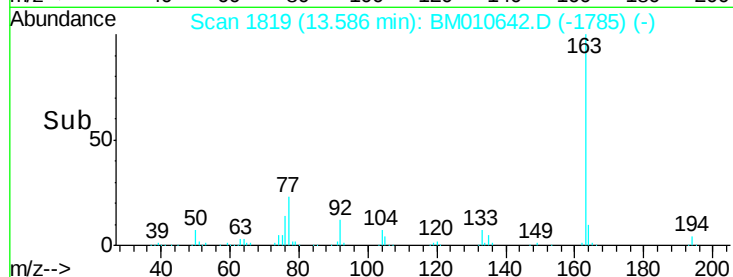
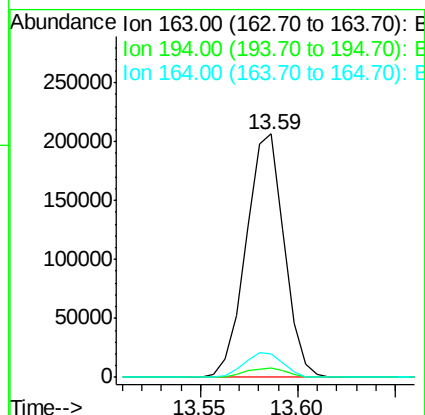
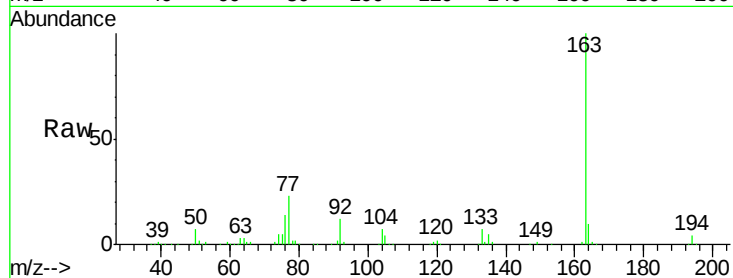




#44  
Dimethylphthalate  
Concen: 13.60 ng/ul  
RT: 13.59 min Scan# 1819  
Delta R.T. -0.00 min  
Lab File: BM010642.D  
Acq: 22 Jun 2017 02:39

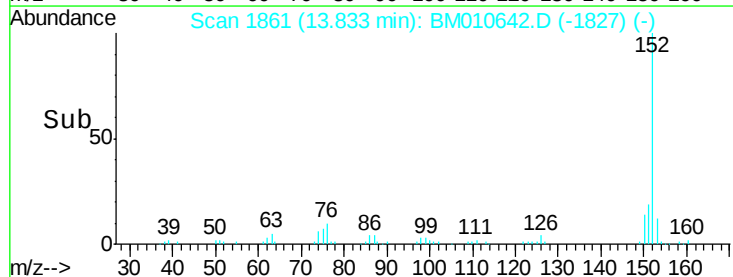
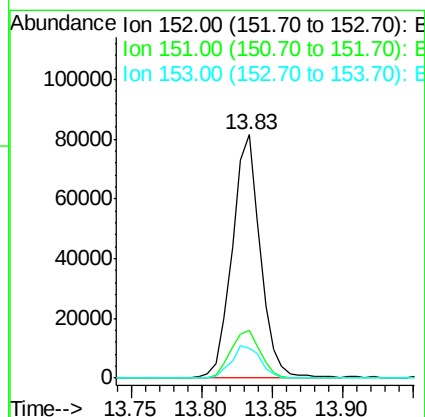
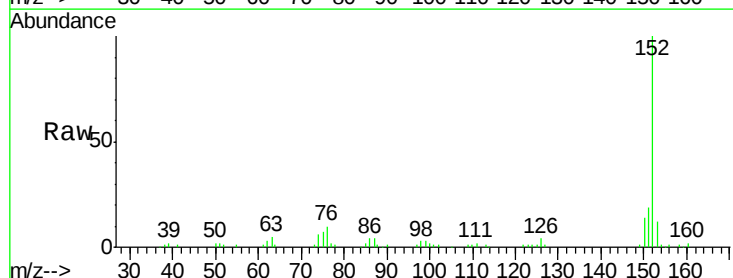
Instrument :  
BNA\_M  
ClientSampled :  
F5C85

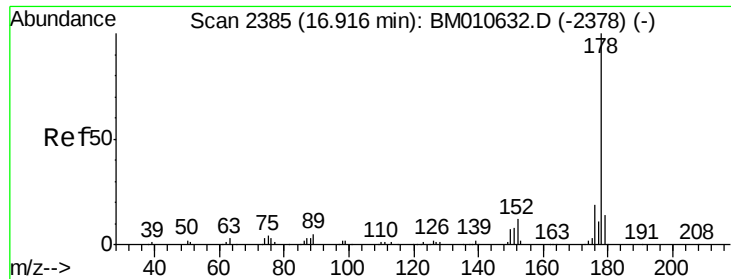
Tgt Ion:163 Resp: 279193  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.5 5.3  
164 9.8 8.2 12.4



#47  
Acenaphthylene  
Concen: 4.89 ng/ul  
RT: 13.83 min Scan# 1861  
Delta R.T. -0.00 min  
Lab File: BM010642.D  
Acq: 22 Jun 2017 02:39

Tgt Ion:152 Resp: 113420  
Ion Ratio Lower Upper  
152 100  
151 19.4 16.3 24.5  
153 12.1 10.2 15.4





#69

Phenanthrene

Concen: 5.45 ng/ul

RT: 16.91 min Scan# 2384

Delta R.T. -0.01 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

Instrument :

BNA\_M

ClientSampleId :

F5C85

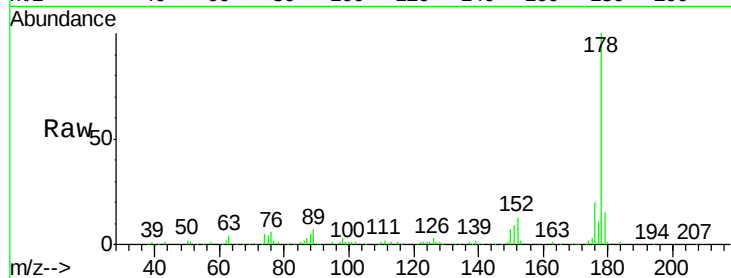
Tgt Ion:178 Resp: 163617

Ion Ratio Lower Upper

178 100

179 15.4 12.6 19.0

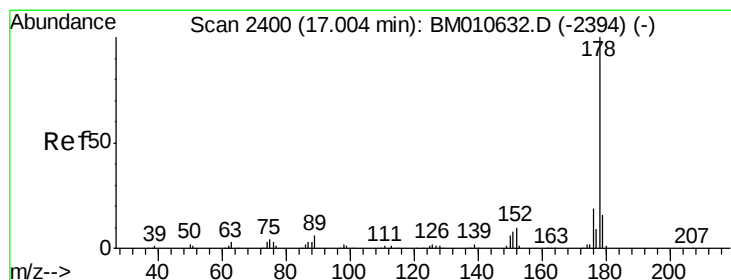
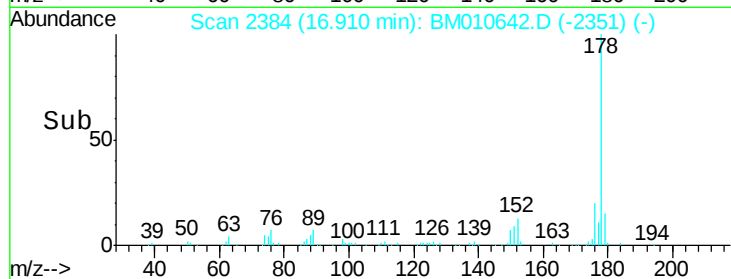
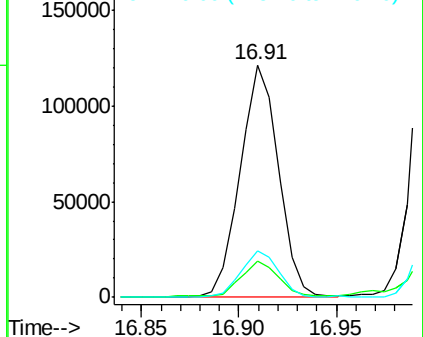
176 19.9 14.9 22.3



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: 9.96 ng/ul

RT: 17.00 min Scan# 2400

Delta R.T. -0.00 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

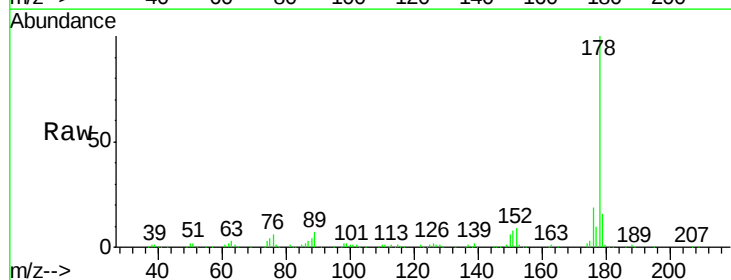
Tgt Ion:178 Resp: 308103

Ion Ratio Lower Upper

178 100

179 16.0 11.7 17.5

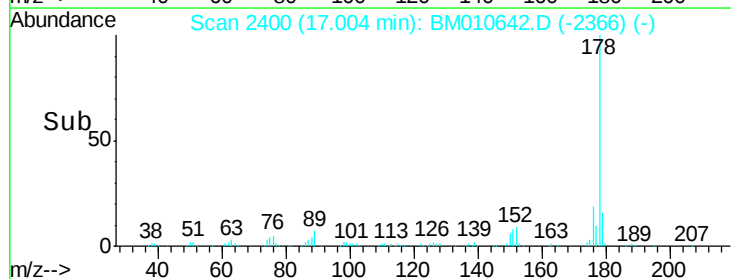
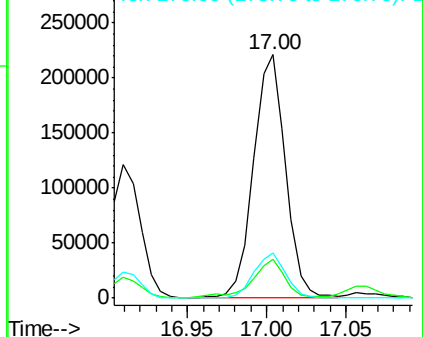
176 18.8 14.6 21.8

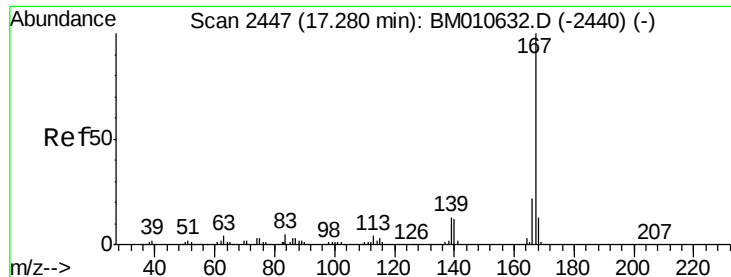


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 4.31 ng/ul

RT: 17.27 min Scan# 2446

Delta R.T. -0.01 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

Instrument :

BNA\_M

ClientSampleId :

F5C85

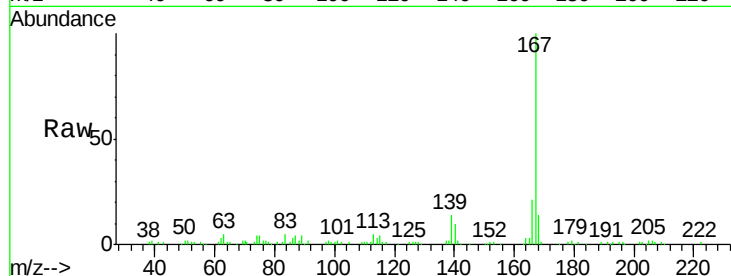
Tgt Ion:167 Resp: 116240

Ion Ratio Lower Upper

167 100

166 20.6 17.1 25.7

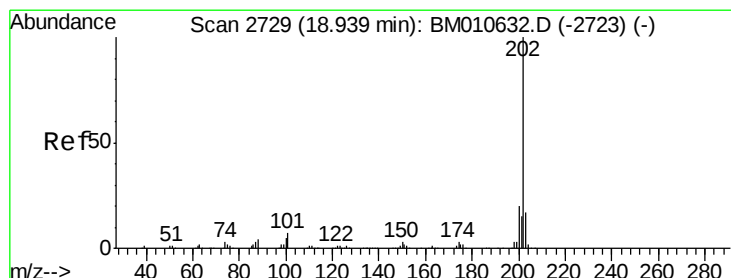
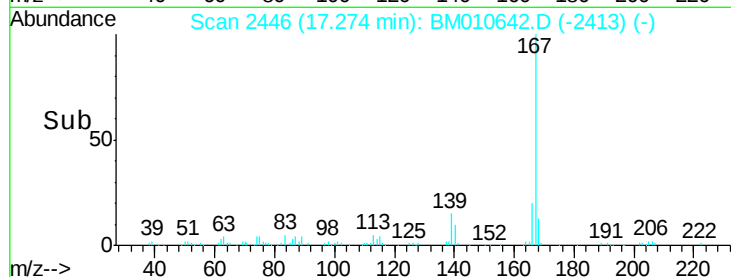
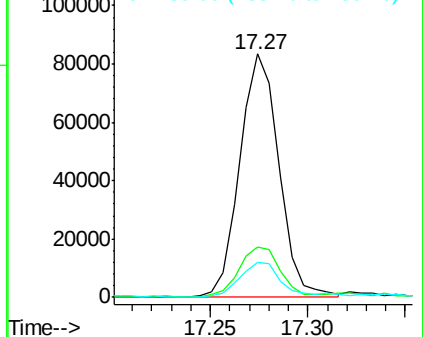
139 14.4 10.0 15.0



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



#74

Fluoranthene

Concen: 67.75 ng/ul

RT: 18.94 min Scan# 2730

Delta R.T. 0.01 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

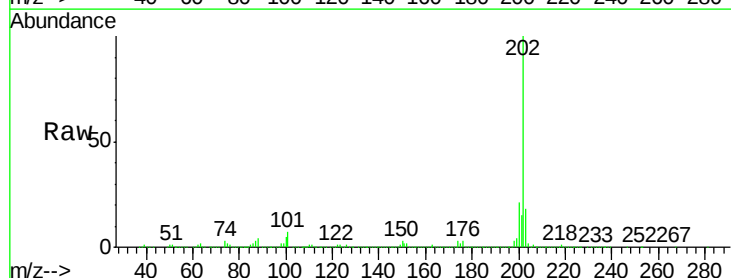
Tgt Ion:202 Resp: 2622308

Ion Ratio Lower Upper

202 100

101 7.1 4.6 7.0#

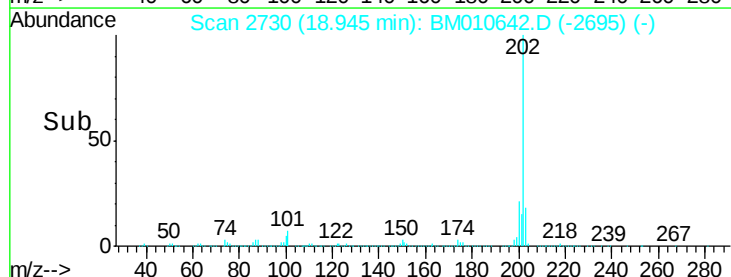
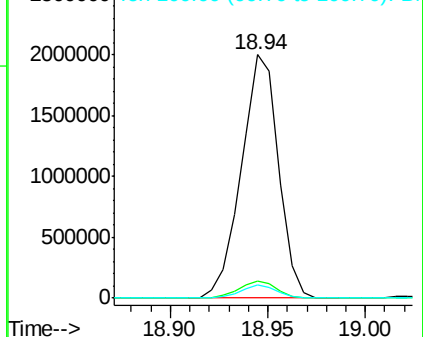
100 5.4 3.4 5.2#

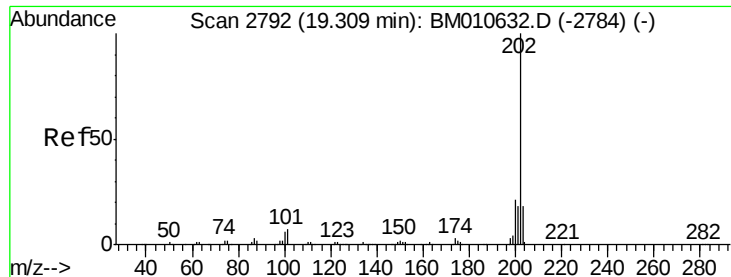


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

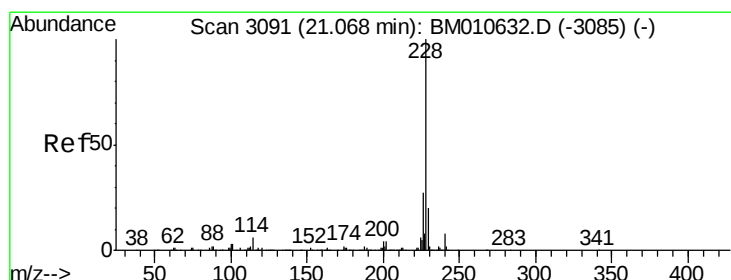
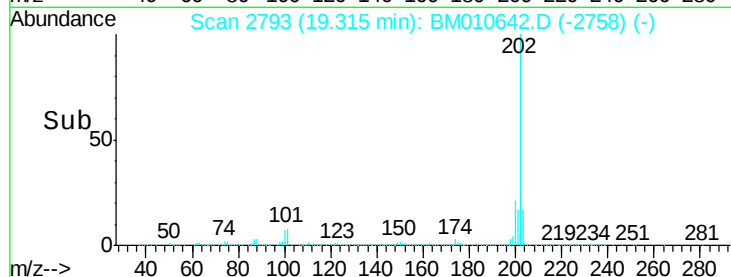
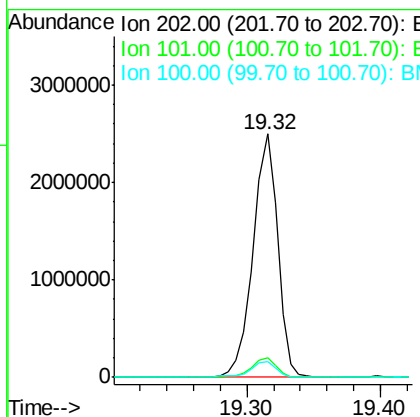
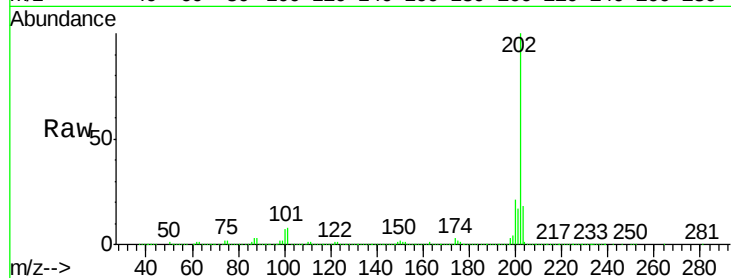




#77  
 Pyrene  
 Concen: 92.33 ng/ul  
 RT: 19.32 min Scan# 2793  
 Delta R.T. 0.01 min  
 Lab File: BM010642.D  
 Acq: 22 Jun 2017 02:39

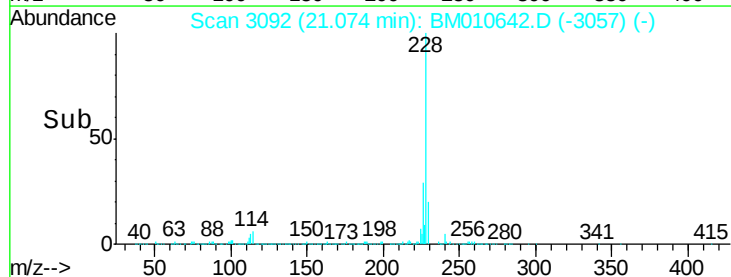
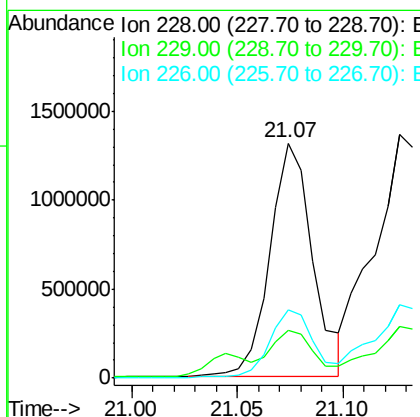
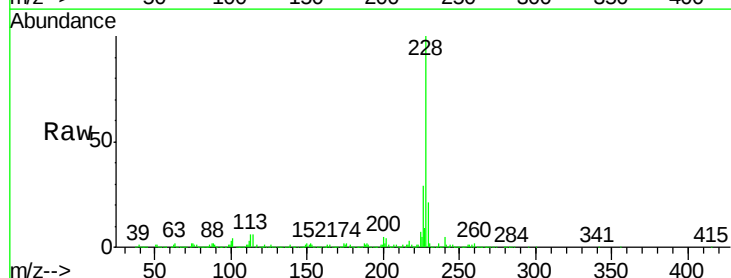
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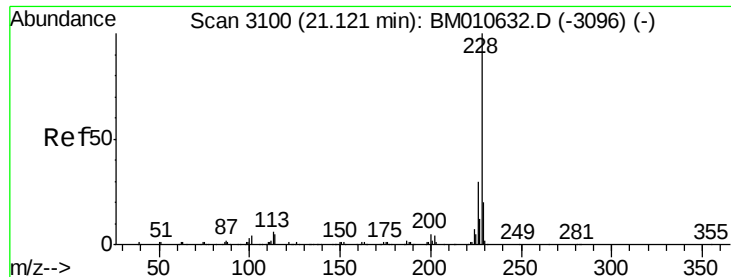
Tgt Ion:202 Resp: 3158039  
 Ion Ratio Lower Upper  
 202 100  
 101 8.1 5.1 7.7#  
 100 6.6 4.9 7.3



#80  
 Benzo(a)anthracene  
 Concen: 53.85 ng/ul  
 RT: 21.07 min Scan# 3092  
 Delta R.T. 0.01 min  
 Lab File: BM010642.D  
 Acq: 22 Jun 2017 02:39

Tgt Ion:228 Resp: 1857074  
 Ion Ratio Lower Upper  
 228 100  
 229 20.6 15.4 23.0  
 226 29.3 21.4 32.0

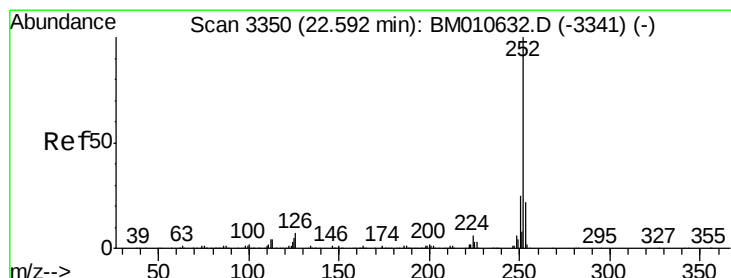
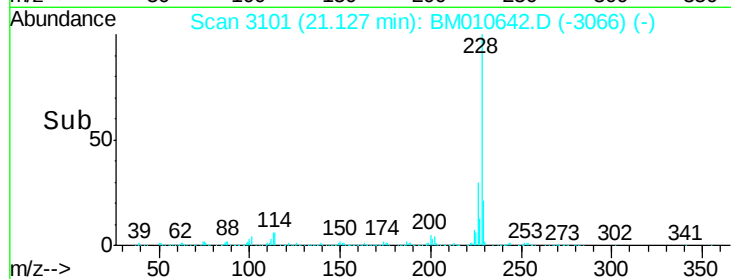
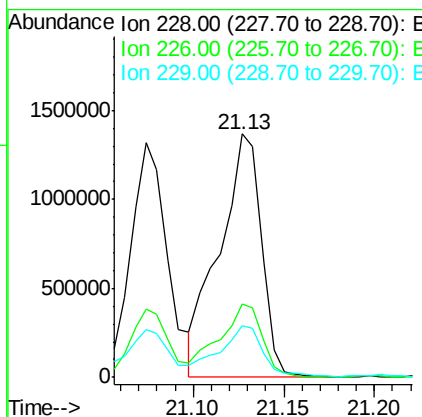
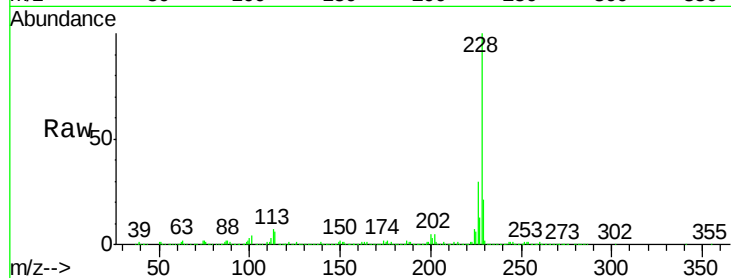




#82  
 Chrysene  
 Concen: 71.36 ng/ul  
 RT: 21.13 min Scan# 3101  
 Delta R.T. 0.01 min  
 Lab File: BM010642.D  
 Acq: 22 Jun 2017 02:39

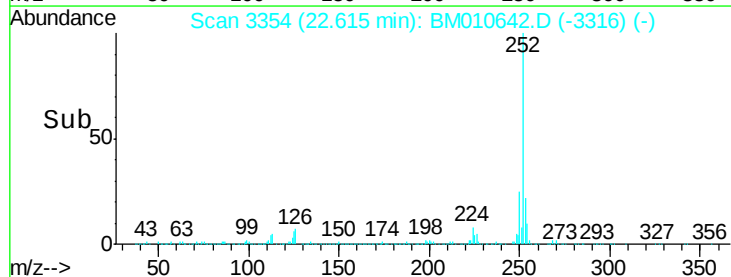
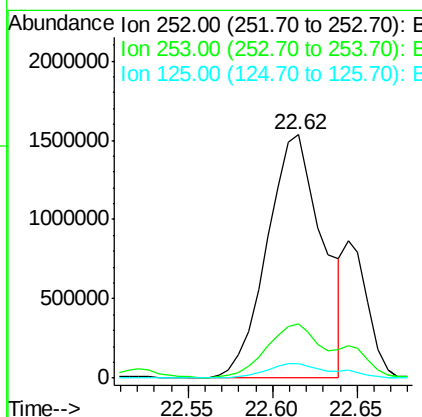
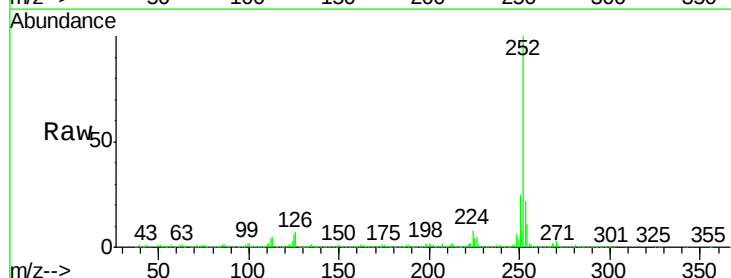
Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C85

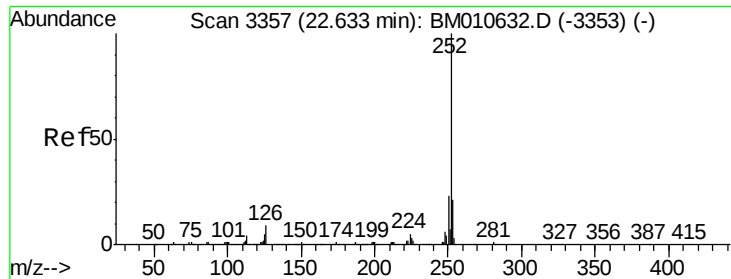
Tgt Ion:228 Resp: 2194055  
 Ion Ratio Lower Upper  
 228 100  
 226 30.3 23.4 35.2  
 229 21.4 15.5 23.3



#85  
 Benzo(b)fluoranthene  
 Concen: 125.49 ng/ul  
 RT: 22.62 min Scan# 3354  
 Delta R.T. 0.02 min  
 Lab File: BM010642.D  
 Acq: 22 Jun 2017 02:39

Tgt Ion:252 Resp: 3493489  
 Ion Ratio Lower Upper  
 252 100  
 253 22.2 17.9 26.9  
 125 5.9 3.6 5.4#

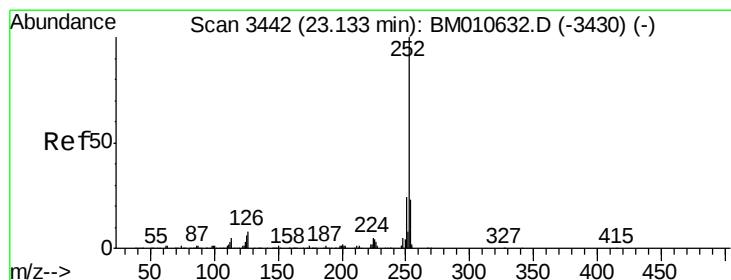
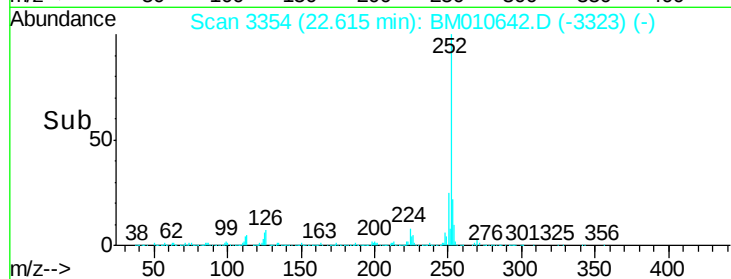
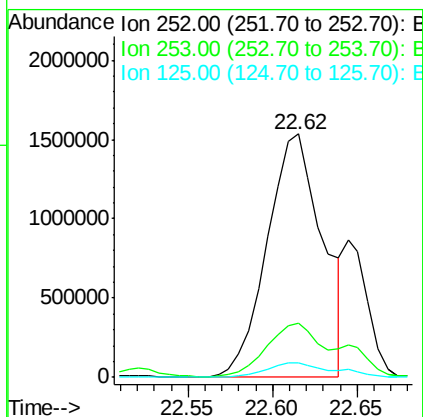
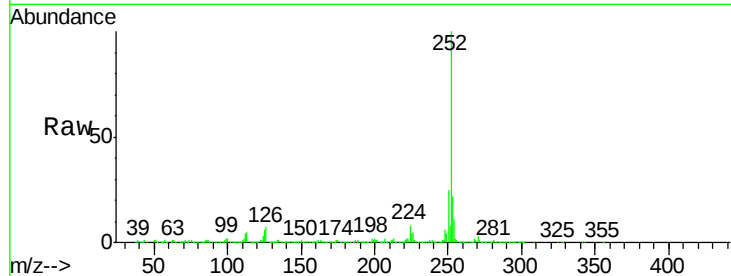




#86  
Benzo(k)fluoranthene  
Concen: 132.37 ng/ul  
RT: 22.62 min Scan# 3354  
Delta R.T. -0.02 min  
Lab File: BM010642.D  
Acq: 22 Jun 2017 02:39

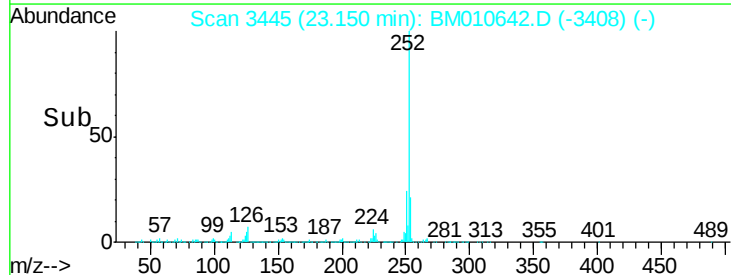
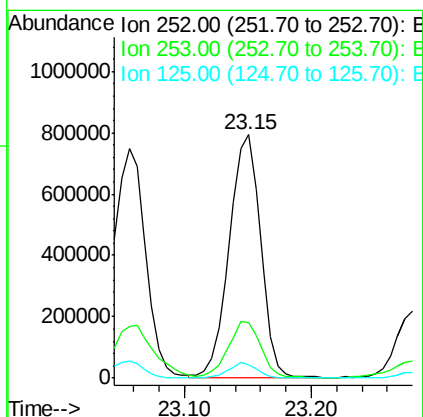
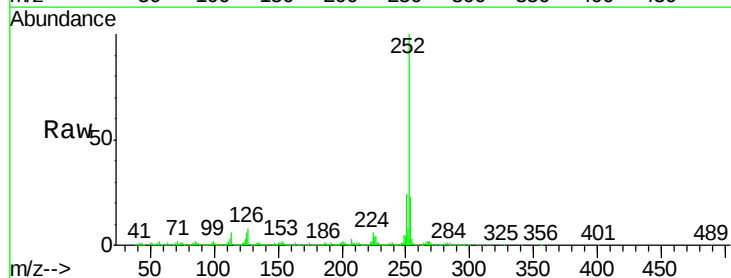
Instrument :  
BNA\_M  
ClientSampleId :  
F5C85

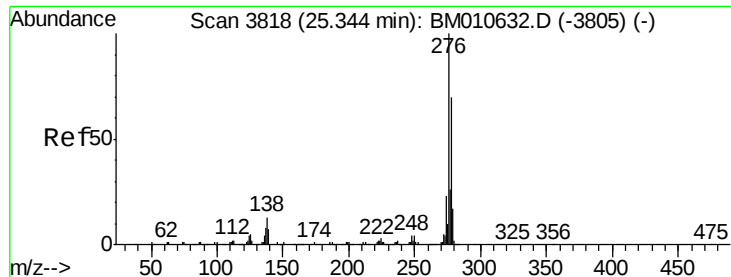
Tgt Ion:252 Resp: 3493489  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.1 25.7  
125 5.9 3.4 5.2#



#88  
Benzo(a)pyrene  
Concen: 52.42 ng/ul  
RT: 23.15 min Scan# 3445  
Delta R.T. 0.02 min  
Lab File: BM010642.D  
Acq: 22 Jun 2017 02:39

Tgt Ion:252 Resp: 1343333  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.2 27.2  
125 5.6 4.0 6.0





#89

Indeno(1,2,3-cd)pyrene

Concen: 30.73 ng/ul

RT: 25.36 min Scan# 3820

Delta R.T. 0.01 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

Instrument :

BNA\_M

ClientSampleId :

F5C85

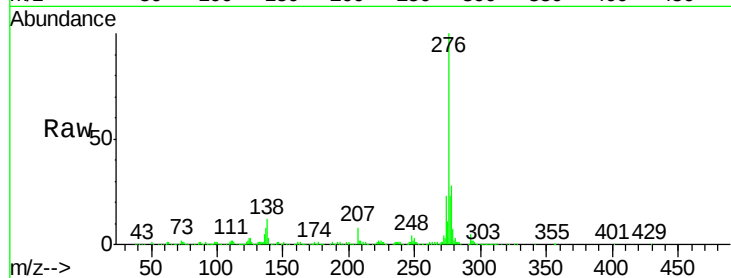
Tgt Ion:276 Resp: 816757

Ion Ratio Lower Upper

276 100

138 12.0 9.3 13.9

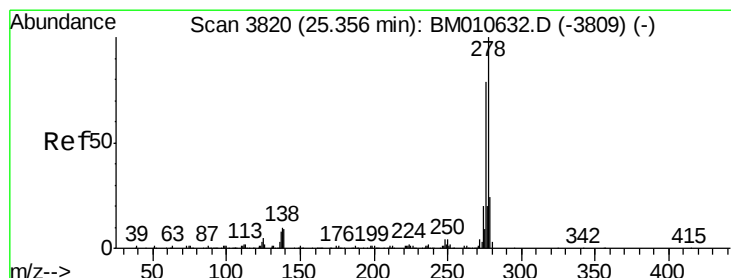
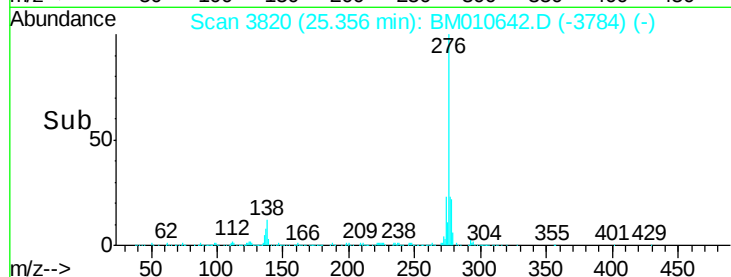
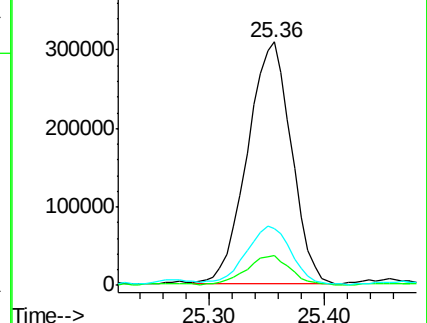
277 23.4 19.9 29.9



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



#90

Dibenzo(a,h)anthracene

Concen: 10.91 ng/ul

RT: 25.36 min Scan# 3820

Delta R.T. -0.00 min

Lab File: BM010642.D

Acq: 22 Jun 2017 02:39

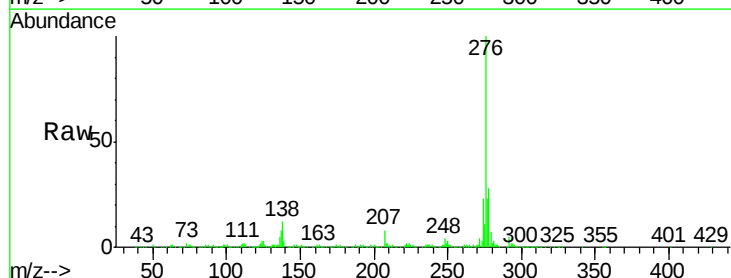
Tgt Ion:278 Resp: 241581

Ion Ratio Lower Upper

278 100

139 10.4 5.8 8.8#

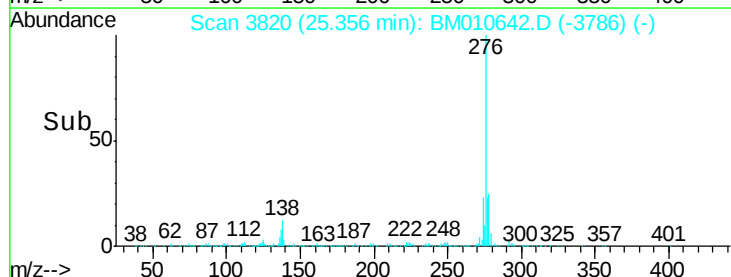
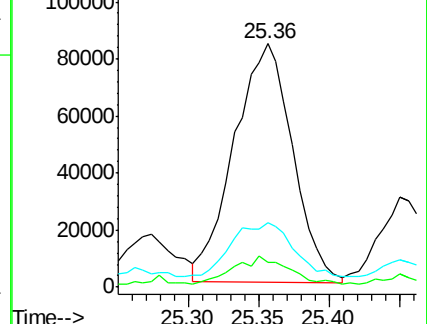
279 26.2 18.6 27.8

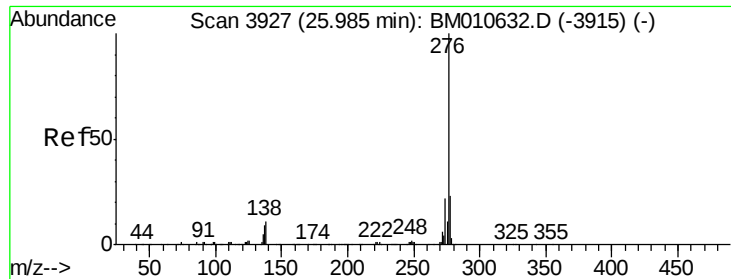


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91  
 Benzo(g,h,i)perylene  
 Concen: 28.25 ng/ul  
 RT: 26.00 min Scan# 3929  
 Delta R.T. 0.01 min  
 Lab File: BM010642.D  
 Acq: 22 Jun 2017 02:39

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C85

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 11.1  | 8.5   | 12.7  |
| 277     | 23.0  | 18.6  | 28.0  |

