

Data Path : Z:\HPCHEM1\BNA M\DATA\BM110717\  
 Data File : BM012800.D  
 Acq On : 07 Nov 2017 17:56  
 Operator : SJ/JU  
 Sample : I6164-10  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Nov 08 01:54:44 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 08 01:41:22 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 100419   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.59 | 136  | 441554   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.44 | 164  | 292149   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 703068   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.36 | 240  | 715799   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.64 | 264  | 630669   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 7810   | 4.20  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 171824 | 23.00 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.13  | 67  | 98092  | 24.22 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 146998 | 23.62 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.51  | 113 | 104782 | 16.25 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 75141  | 23.04 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 89386  | 23.95 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 163661 | 21.39 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.73 | 131 | 121304 | 16.43 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.84 | 166 | 572125 | 23.67 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 675761 | 22.60 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.66 | 143 | 65720  | 16.97 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.43 | 176 | 496449 | 23.98 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.57 | 200 | 69966  | 15.07 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.28 | 188 | 753391 | 22.18 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.57 | 212 | 834191 | 25.12 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.50 | 264 | 683400 | 22.92 | ng/ul | 0.00 |

## Target Compounds

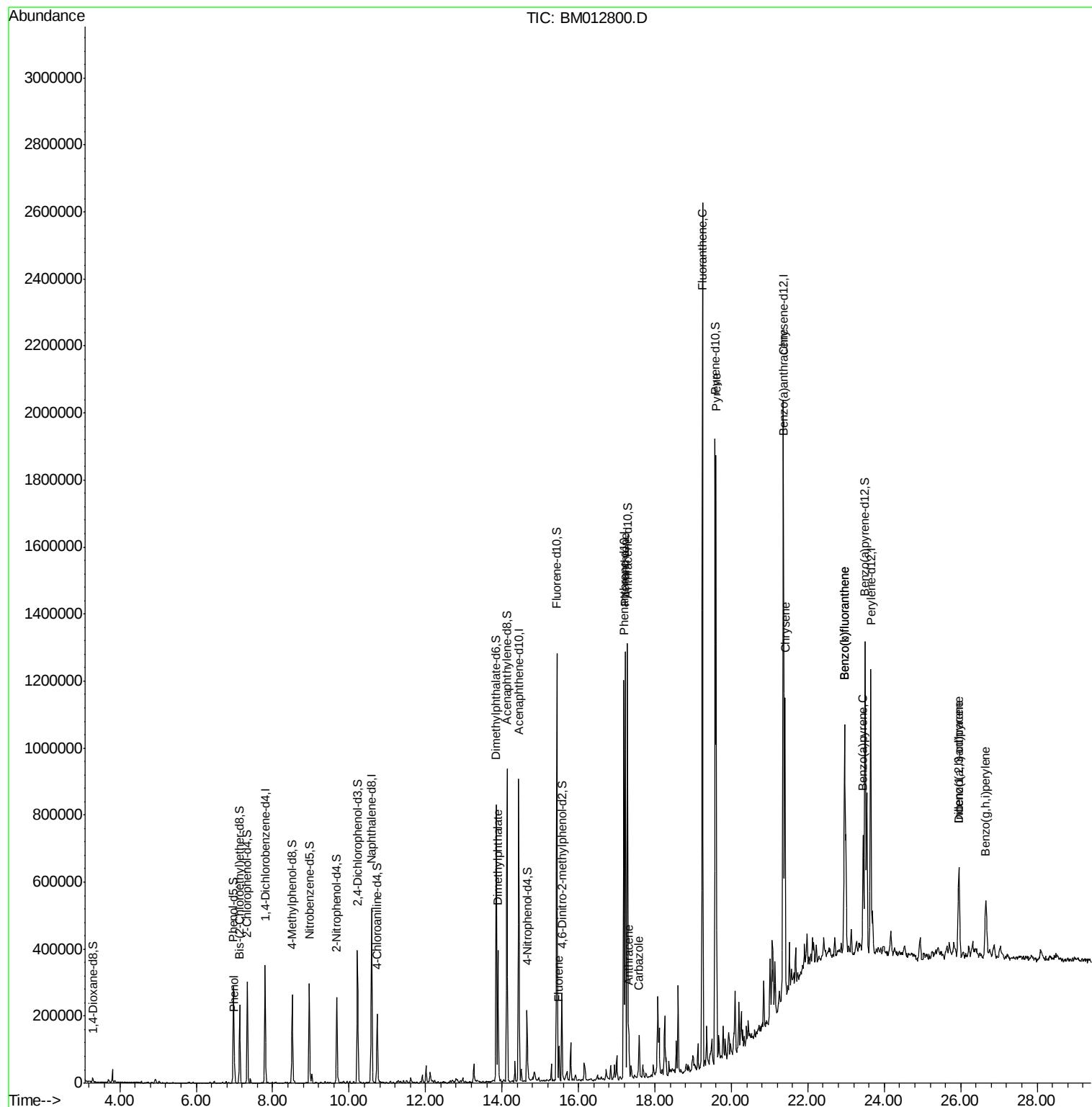
|                            |       |     |         |       |        | Ovalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 6) Phenol                  | 7.00  | 94  | 27088   | 3.53  | ng/ul  | 95     |
| 44) Dimethylphthalate      | 13.89 | 163 | 251954  | 10.50 | ng/ul  | 98     |
| 58) Fluorene               | 15.49 | 166 | 26766   | 1.12  | ng/ul  | 97     |
| 69) Phenanthrene           | 17.23 | 178 | 767027  | 19.96 | ng/ul  | 99     |
| 71) Anthracene             | 17.32 | 178 | 90339   | 2.27  | ng/ul  | 99     |
| 74) Carbazole              | 17.59 | 167 | 80228   | 2.41  | ng/ul  | 99     |
| 76) Fluoranthene           | 19.24 | 202 | 1549419 | 33.55 | ng/ul# | 92     |
| 79) Pyrene                 | 19.61 | 202 | 1144484 | 26.80 | ng/ul# | 91     |
| 82) Benzo(a)anthracene     | 21.35 | 228 | 417267  | 9.63  | ng/ul  | 99     |
| 84) Chrysene               | 21.40 | 228 | 530166  | 13.51 | ng/ul  | 98     |
| 87) Benzo(b)fluoranthene   | 22.96 | 252 | 604420  | 15.68 | ng/ul# | 95     |
| 88) Benzo(k)fluoranthene   | 22.96 | 252 | 604420  | 16.50 | ng/ul# | 95     |
| 90) Benzo(a)pyrene         | 23.45 | 252 | 273654  | 7.46  | ng/ul  | 97     |
| 91) Indeno(1,2,3-cd)pyrene | 25.95 | 276 | 271329  | 6.14  | ng/ul# | 86     |
| 92) Dibenzo(a,h)anthracene | 25.95 | 278 | 62328   | 1.67  | ng/ul# | 74     |
| 93) Benzo(g,h,i)perylene   | 26.66 | 276 | 235398  | 6.46  | ng/ul# | 89     |

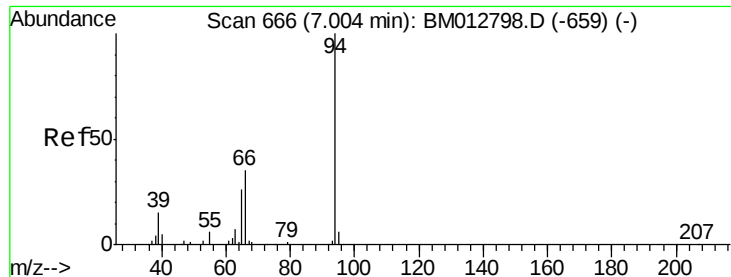
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 08 01:41:22 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 3.53 ng/ul

RT: 7.00 min Scan# 666

Delta R.T. -0.00 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

Instrument :

BNA\_M

ClientSampleId :

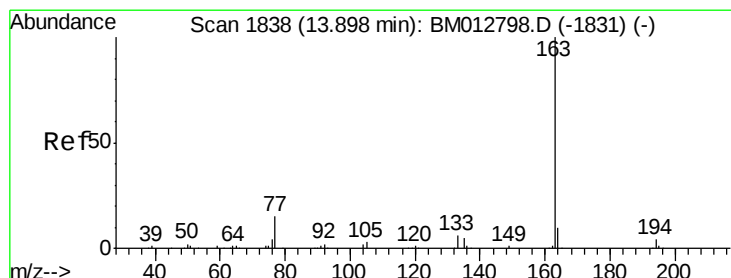
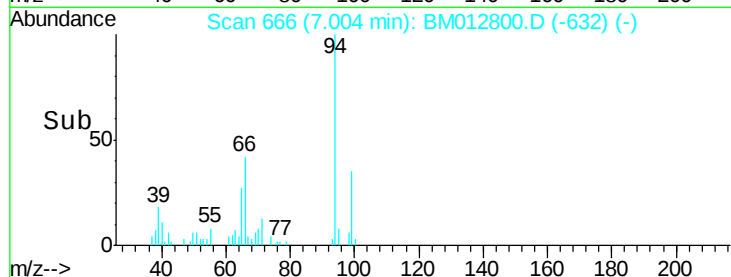
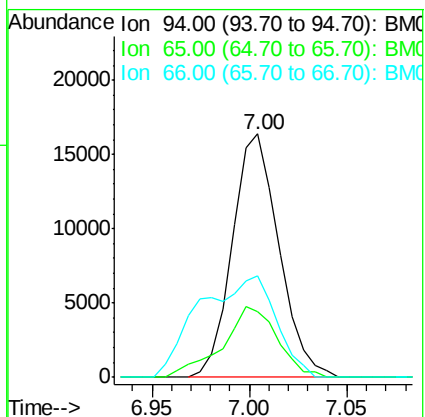
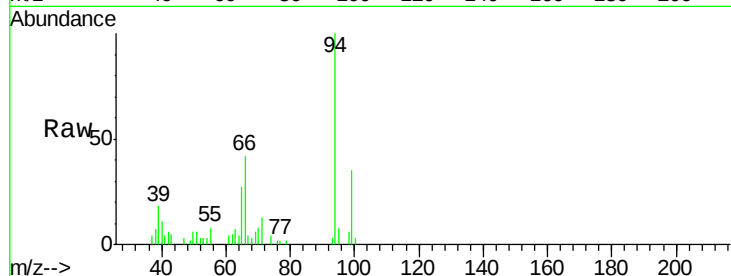
Tot Ion: 94 Resp: 27088

Ion Ratio Lower Upper

94 100

65 26.8 21.0 31.6

66 41.6 29.3 43.9



#44

Dimethylphthalate

Concen: 10.50 ng/ul

RT: 13.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

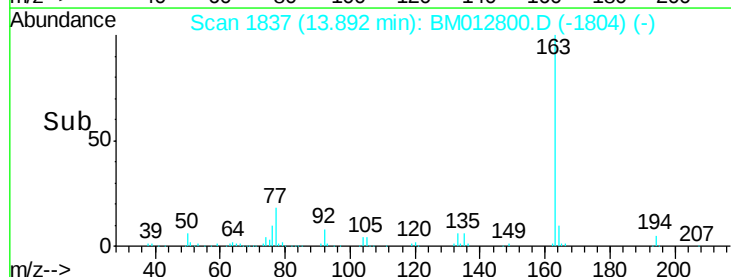
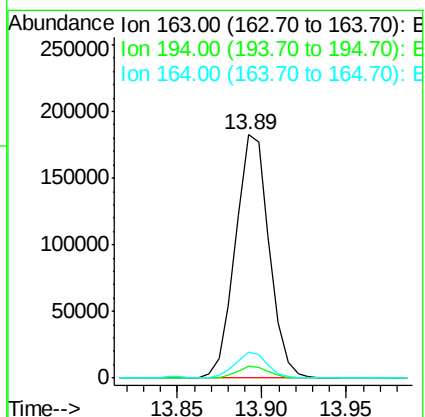
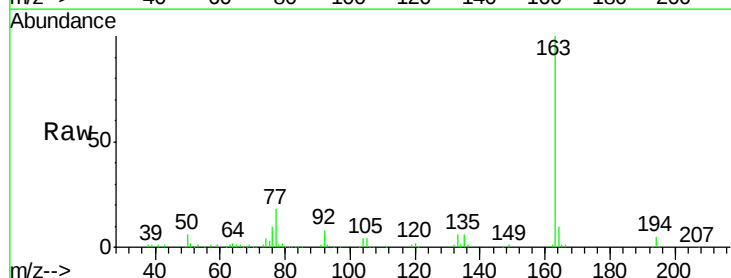
Tgt Ion: 163 Resp: 251954

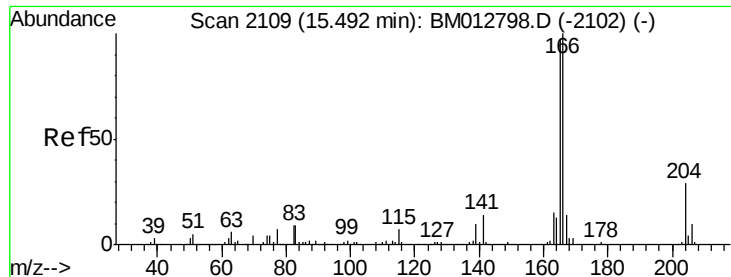
Ion Ratio Lower Upper

163 100

194 4.8 3.2 4.8

164 10.4 7.8 11.8





#58

Fluorene

Concen: 1.12 ng/ul

RT: 15.49 min Scan# 2108

Delta R.T. -0.01 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

Instrument :

BNA\_M

ClientSampleId :

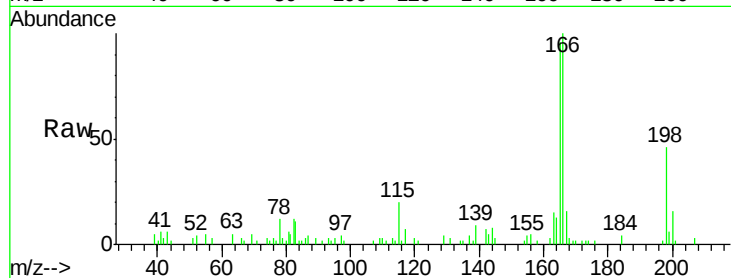
Tot Ion:166 Resp: 26766

Ion Ratio Lower Upper

166 100

165 95.8 78.5 117.7

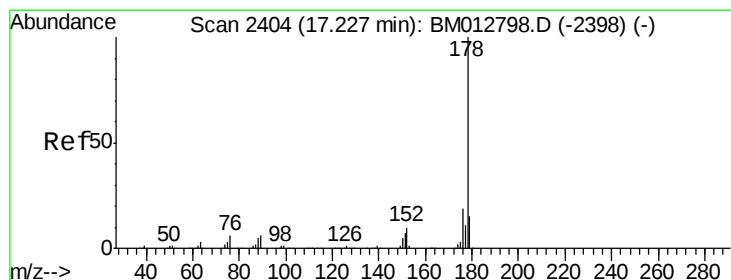
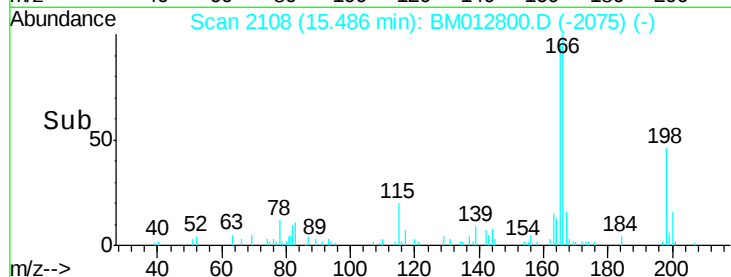
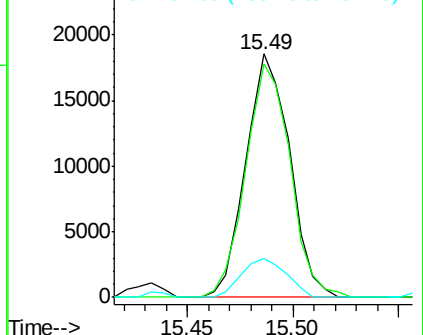
167 16.0 10.7 16.1



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: 19.96 ng/ul

RT: 17.23 min Scan# 2404

Delta R.T. -0.00 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

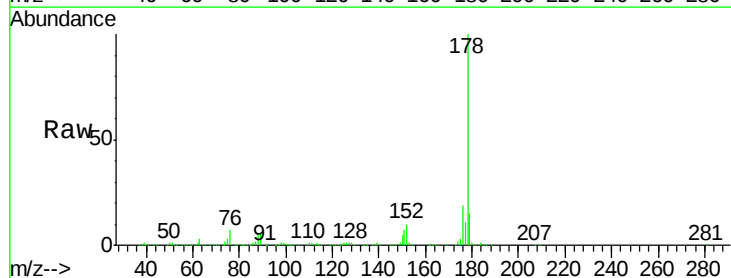
Tgt Ion:178 Resp: 767027

Ion Ratio Lower Upper

178 100

179 15.1 12.2 18.4

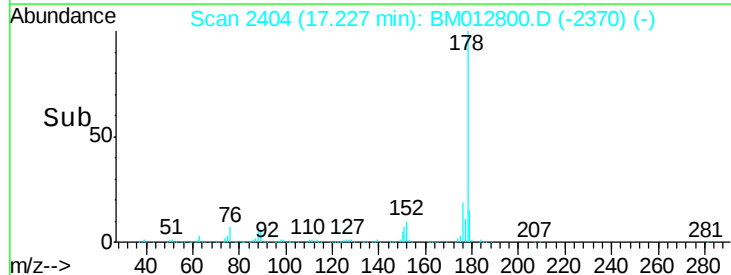
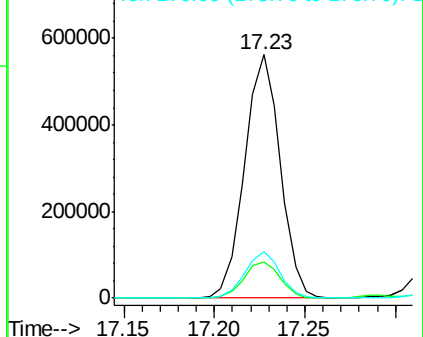
176 18.9 15.6 23.4

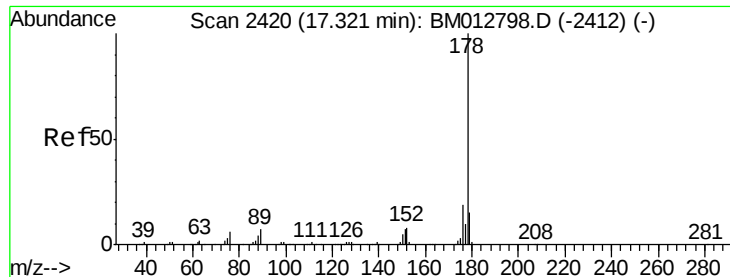


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

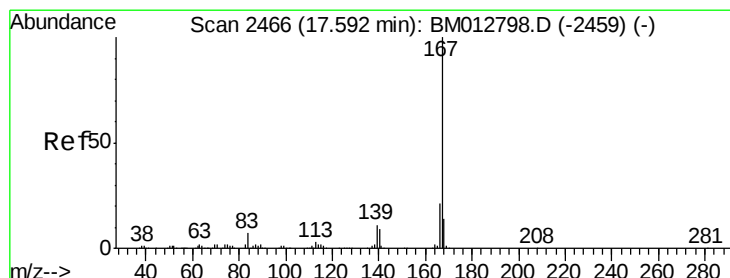
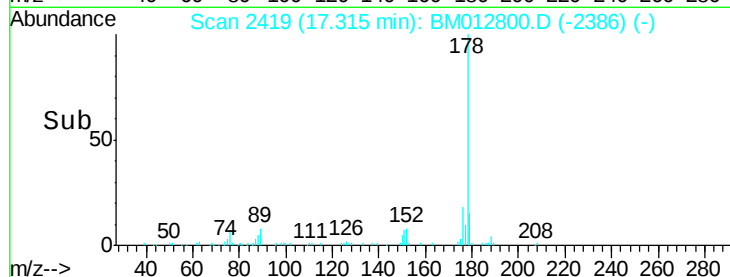
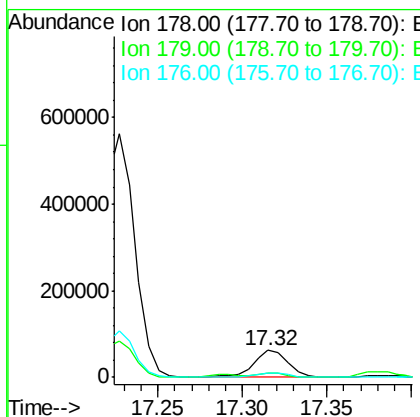
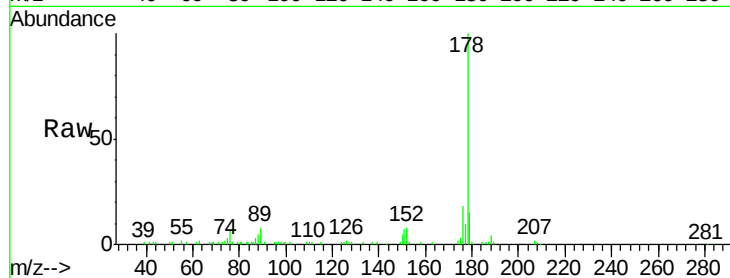




#71  
 Anthracene  
 Concen: 2.27 ng/ul  
 RT: 17.32 min Scan# 2419  
 Delta R.T. -0.01 min  
 Lab File: BM012800.D  
 Acq: 07 Nov 2017 17:56

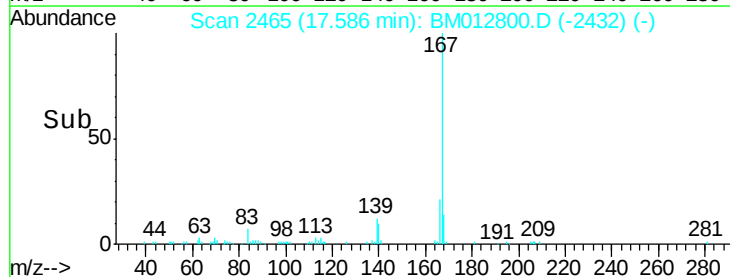
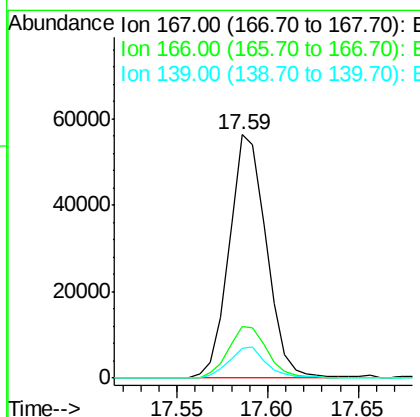
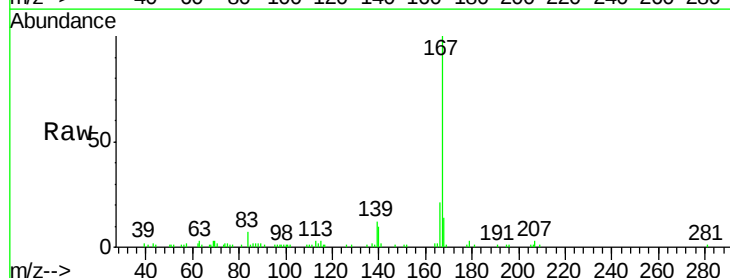
Instrument :  
 BNA\_M  
 ClientSampleId :

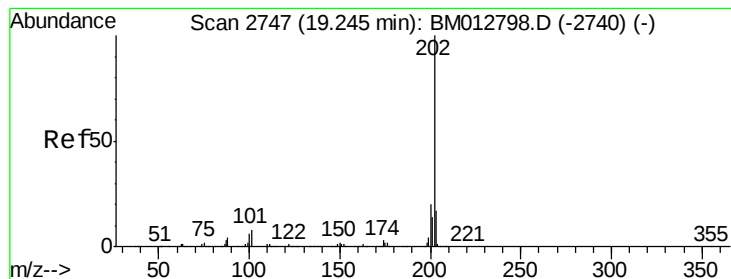
Tot Ion:178 Resp: 90339  
 Ion Ratio Lower Upper  
 178 100  
 179 15.0 12.1 18.1  
 176 17.5 14.8 22.2



#74  
 Carbazole  
 Concen: 2.41 ng/ul  
 RT: 17.59 min Scan# 2465  
 Delta R.T. -0.01 min  
 Lab File: BM012800.D  
 Acq: 07 Nov 2017 17:56

Tgt Ion:167 Resp: 80228  
 Ion Ratio Lower Upper  
 167 100  
 166 21.2 17.0 25.6  
 139 12.3 11.0 16.4





#76

Fluoranthene

Concen: 33.55 ng/ul

RT: 19.24 min Scan# 2747

Delta R.T. -0.00 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

Instrument :

BNA\_M

ClientSampleId :

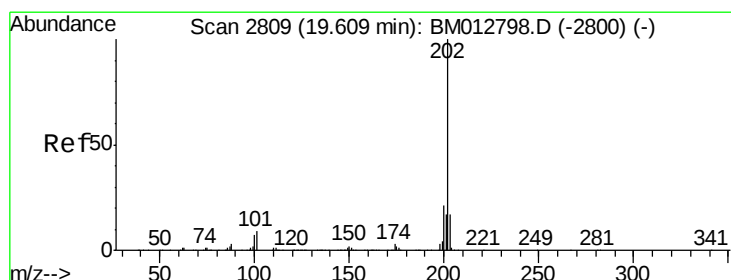
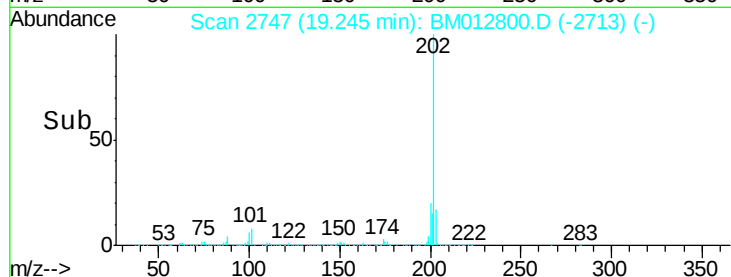
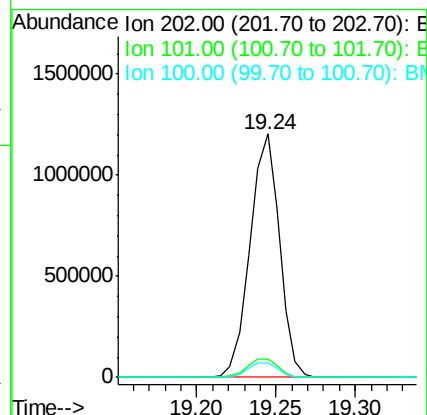
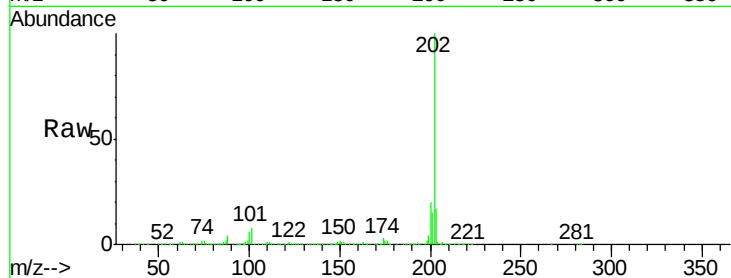
Tot Ion:202 Resp: 1549419

Ion Ratio Lower Upper

202 100

101 7.7 8.8 13.2#

100 6.1 6.6 9.8#



#79

Pyrene

Concen: 26.80 ng/ul

RT: 19.61 min Scan# 2809

Delta R.T. -0.00 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

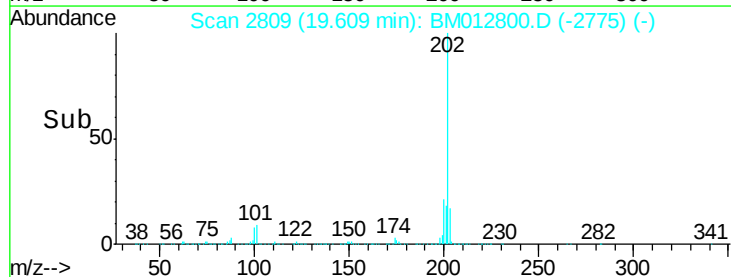
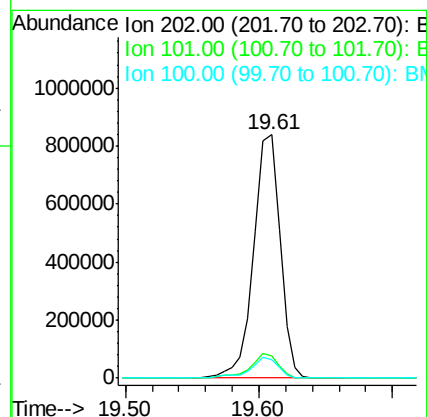
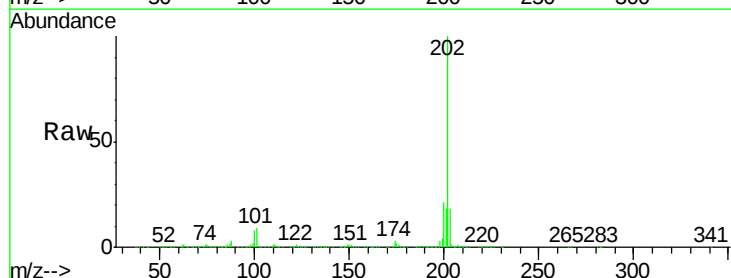
Tgt Ion:202 Resp: 1144484

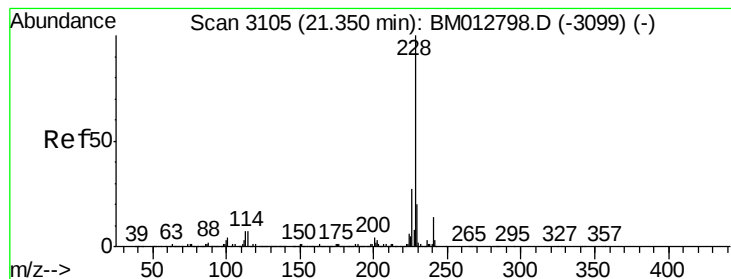
Ion Ratio Lower Upper

202 100

101 9.0 10.2 15.2#

100 7.6 8.5 12.7#





#82

Benzo(a)anthracene

Concen: 9.63 ng/ul

RT: 21.35 min Scan# 3105

Delta R.T. -0.00 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

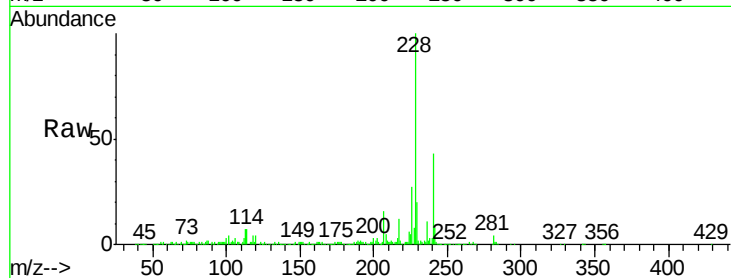
Instrument :

BNA\_M

ClientSampled :

Tot Ion:228 Resp: 417267

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 19.9  | 15.7  | 23.5  |
| 226 | 27.0  | 21.8  | 32.6  |

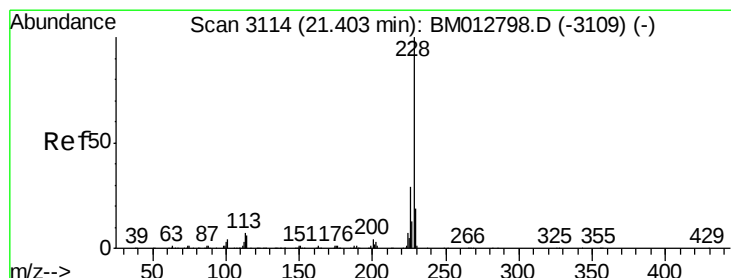
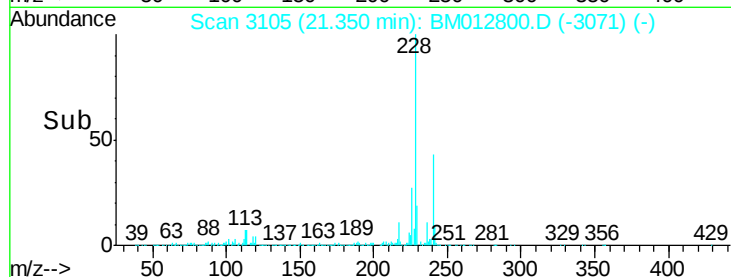
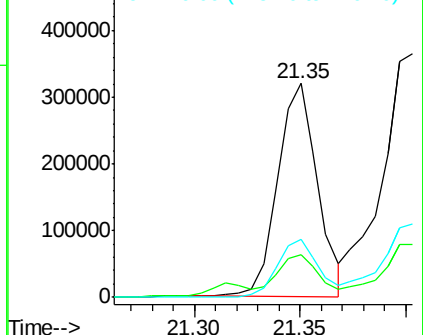


Abundance

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



#84

Chrysene

Concen: 13.51 ng/ul

RT: 21.40 min Scan# 3114

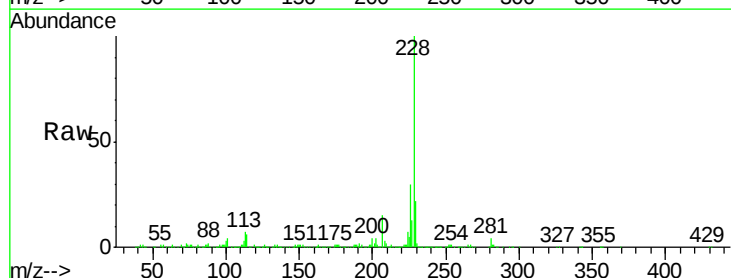
Delta R.T. -0.00 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

Tgt Ion:228 Resp: 530166

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.0  | 24.0  | 36.0  |
| 229 | 21.5  | 15.6  | 23.4  |

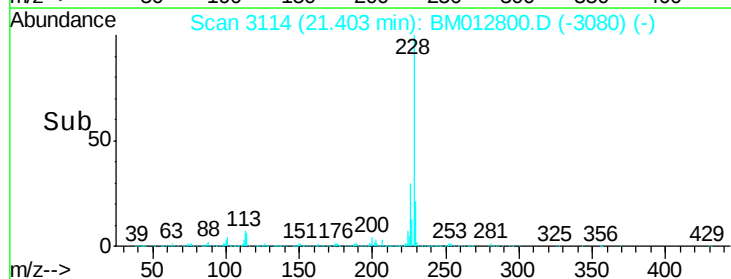
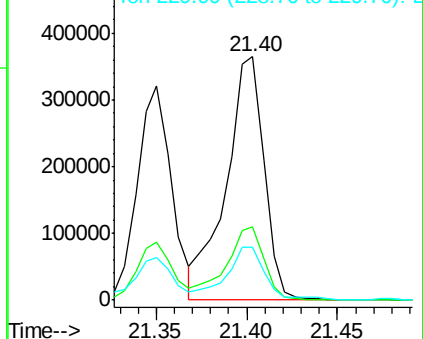


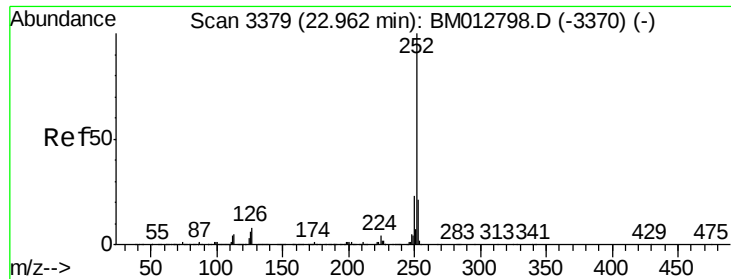
Abundance

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

Benzo(b)fluoranthene

Concen: 15.68 ng/ul

RT: 22.96 min Scan# 3379

Delta R.T. -0.00 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

Instrument :

BNA\_M

ClientSampleId :

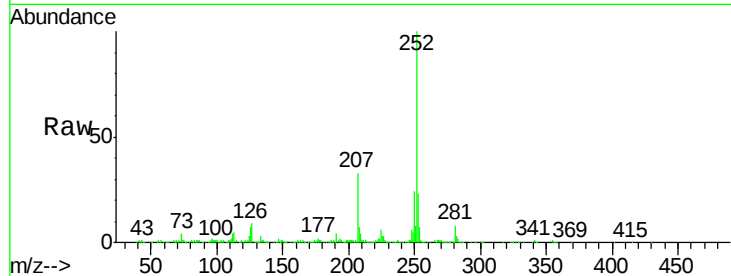
Tot Ion:252 Resp: 604420

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

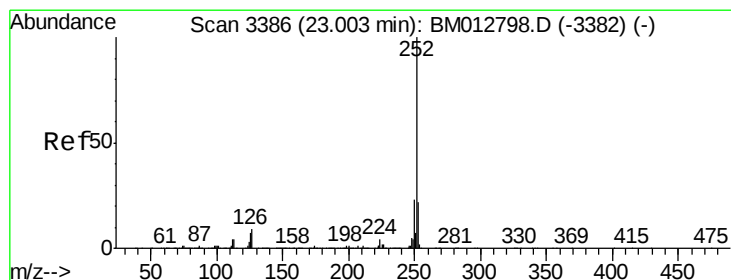
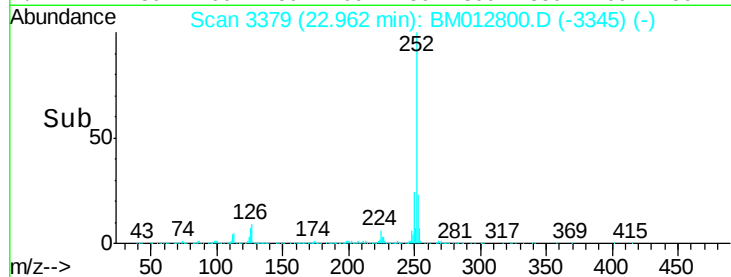
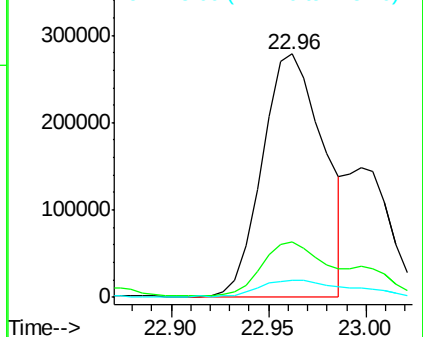
125 7.0 8.5 12.7#



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



#88

Benzo(k)fluoranthene

Concen: 16.50 ng/ul

RT: 22.96 min Scan# 3379

Delta R.T. -0.04 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

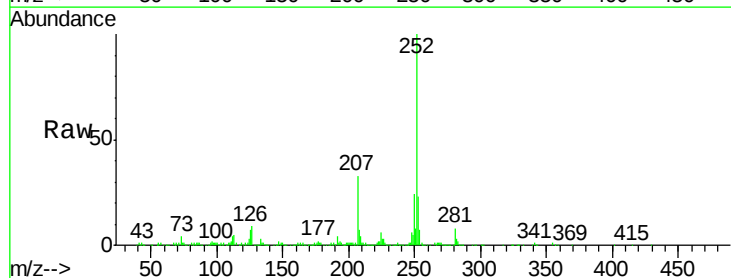
Tgt Ion:252 Resp: 604420

Ion Ratio Lower Upper

252 100

253 22.9 17.3 25.9

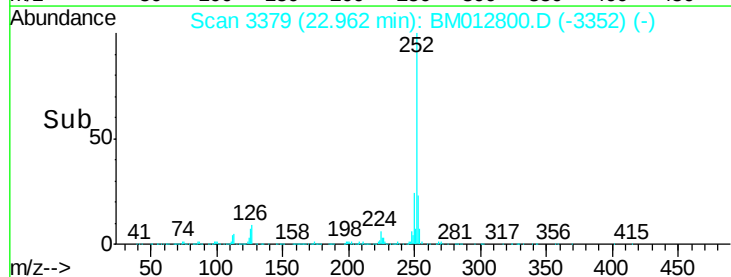
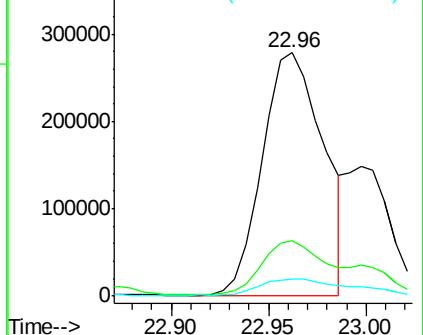
125 7.0 8.2 12.2#

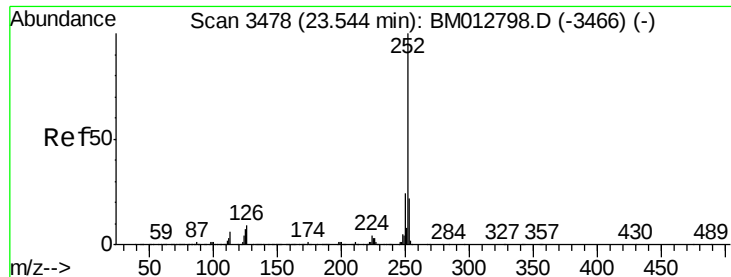


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 7.46 ng/ul

RT: 23.45 min Scan# 3462

Delta R.T. -0.09 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

Instrument :

BNA\_M

ClientSampleId :

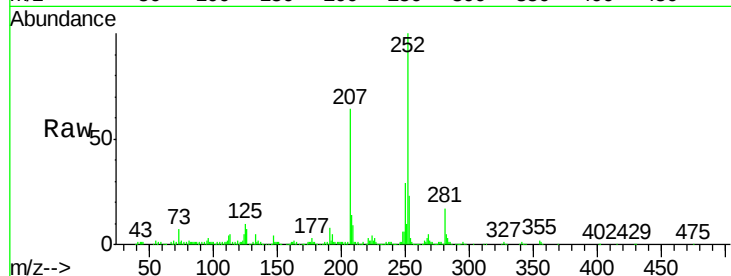
Tot Ion:252 Resp: 273654

Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

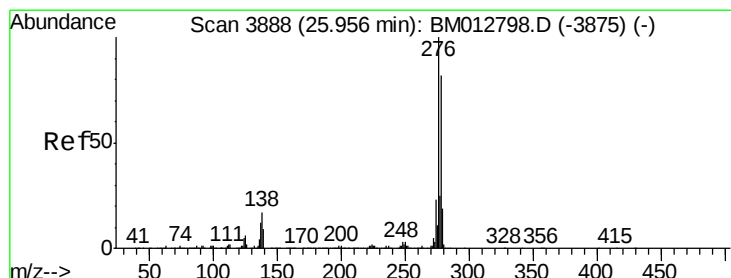
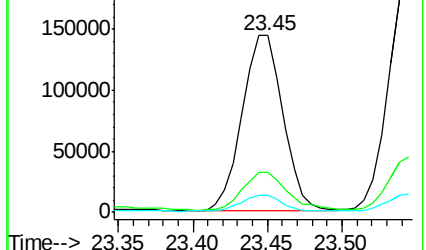
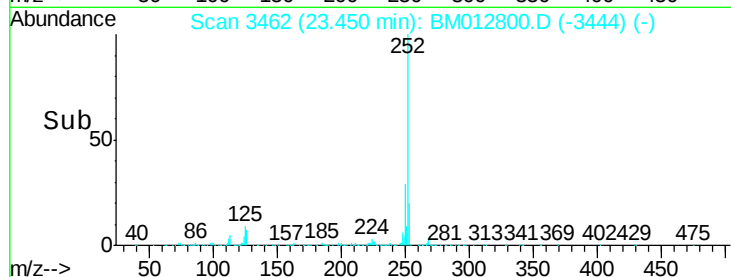
125 9.7 9.0 13.6



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

Indeno(1,2,3-cd)pyrene

Concen: 6.14 ng/ul

RT: 25.95 min Scan# 3887

Delta R.T. -0.01 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

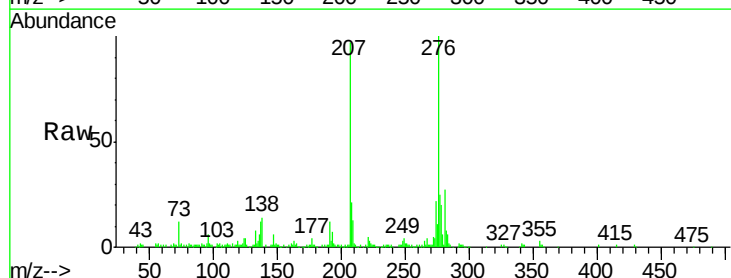
Tgt Ion:276 Resp: 271329

Ion Ratio Lower Upper

276 100

138 14.0 22.3 33.5#

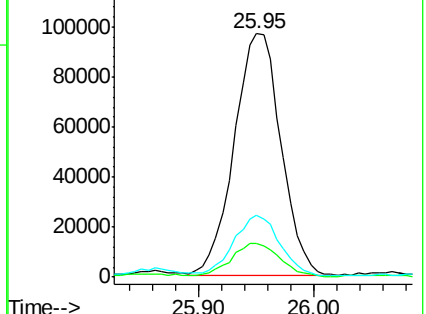
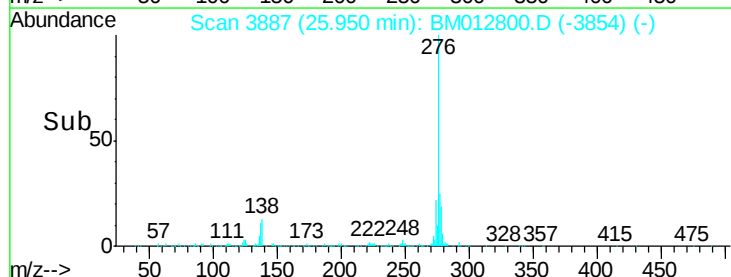
277 25.4 20.2 30.2

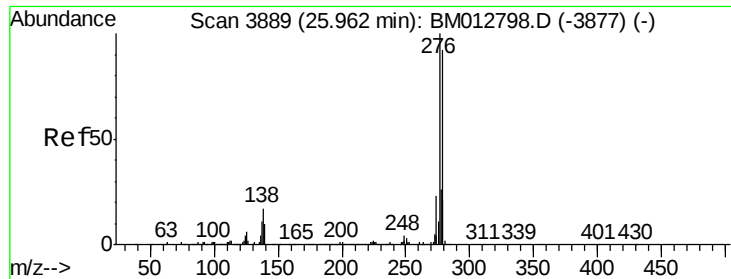


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 1.67 ng/ul

RT: 25.95 min Scan# 3887

Delta R.T. -0.01 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

Instrument :

BNA\_M

ClientSampleId :

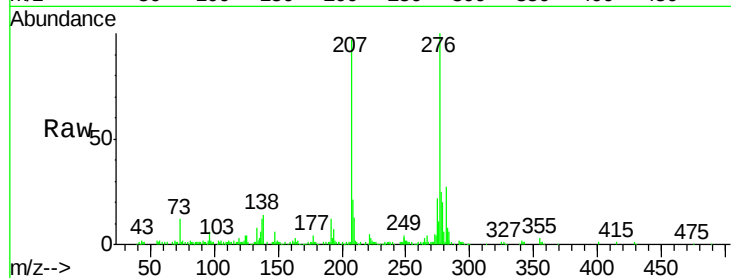
Tot Ion:278 Resp: 62328

Ion Ratio Lower Upper

278 100

139 0.0 13.9 20.9#

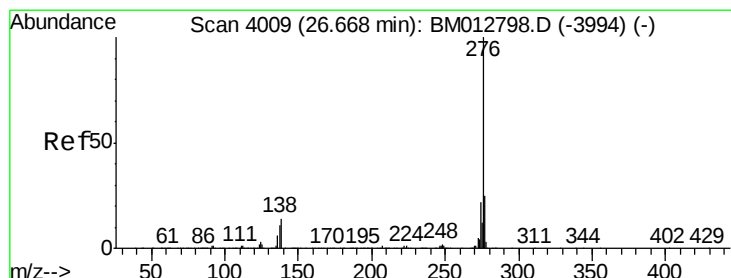
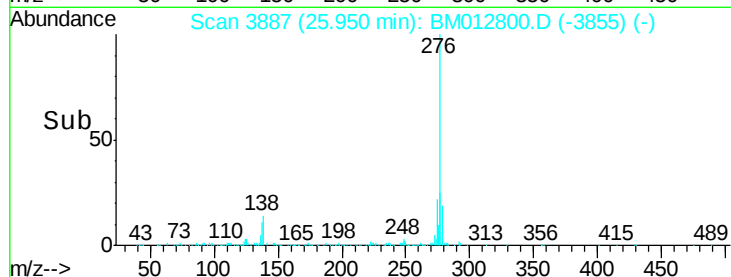
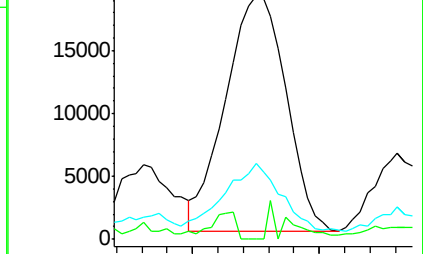
279 31.3 19.0 28.4#



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



#93

Benzo(g,h,i)perylene

Concen: 6.46 ng/ul

RT: 26.66 min Scan# 4007

Delta R.T. -0.01 min

Lab File: BM012800.D

Acq: 07 Nov 2017 17:56

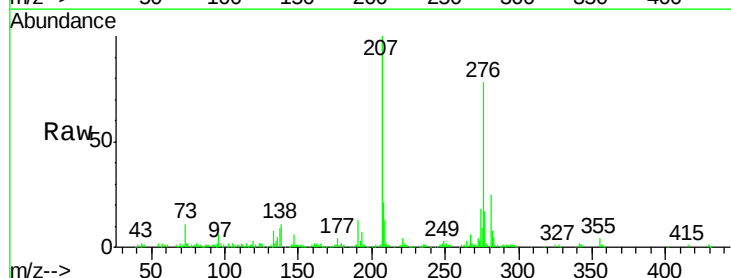
Tgt Ion:276 Resp: 235398

Ion Ratio Lower Upper

276 100

138 14.6 18.9 28.3#

277 21.9 19.2 28.8



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

