

Data File : BM023228.D  
Acq On : 17 Oct 2019 20:18  
Operator : JU  
Sample : K5236-12  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP2

Quant Time: Oct 18 06:56:15 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 18 06:52:01 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 355707   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 1406799  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.31 | 164  | 897251   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.06 | 188  | 1873698  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.25 | 240  | 2013721  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.46 | 264  | 2536928  | 20.00 | ng/ul | 0.00     |

System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.18  | 96  | 29282   | 3.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.84  | 99  | 550403  | 17.77 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 314611  | 17.95 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.20  | 132 | 454322  | 19.16 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.37  | 113 | 434039  | 17.44 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.81  | 128 | 214543  | 22.54 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.53  | 143 | 236352  | 26.08 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.07 | 165 | 468014  | 20.31 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.57 | 131 | 499258  | 17.81 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.73 | 166 | 1366904 | 19.88 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.00 | 160 | 1670795 | 20.72 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.51 | 143 | 147919  | 13.29 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.30 | 176 | 1226374 | 20.93 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.43 | 200 | 116065  | 15.62 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.16 | 188 | 1951805 | 21.60 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.45 | 212 | 2223748 | 22.80 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.33 | 264 | 2823138 | 21.95 | ng/ul | 0.00 |

Target Compounds

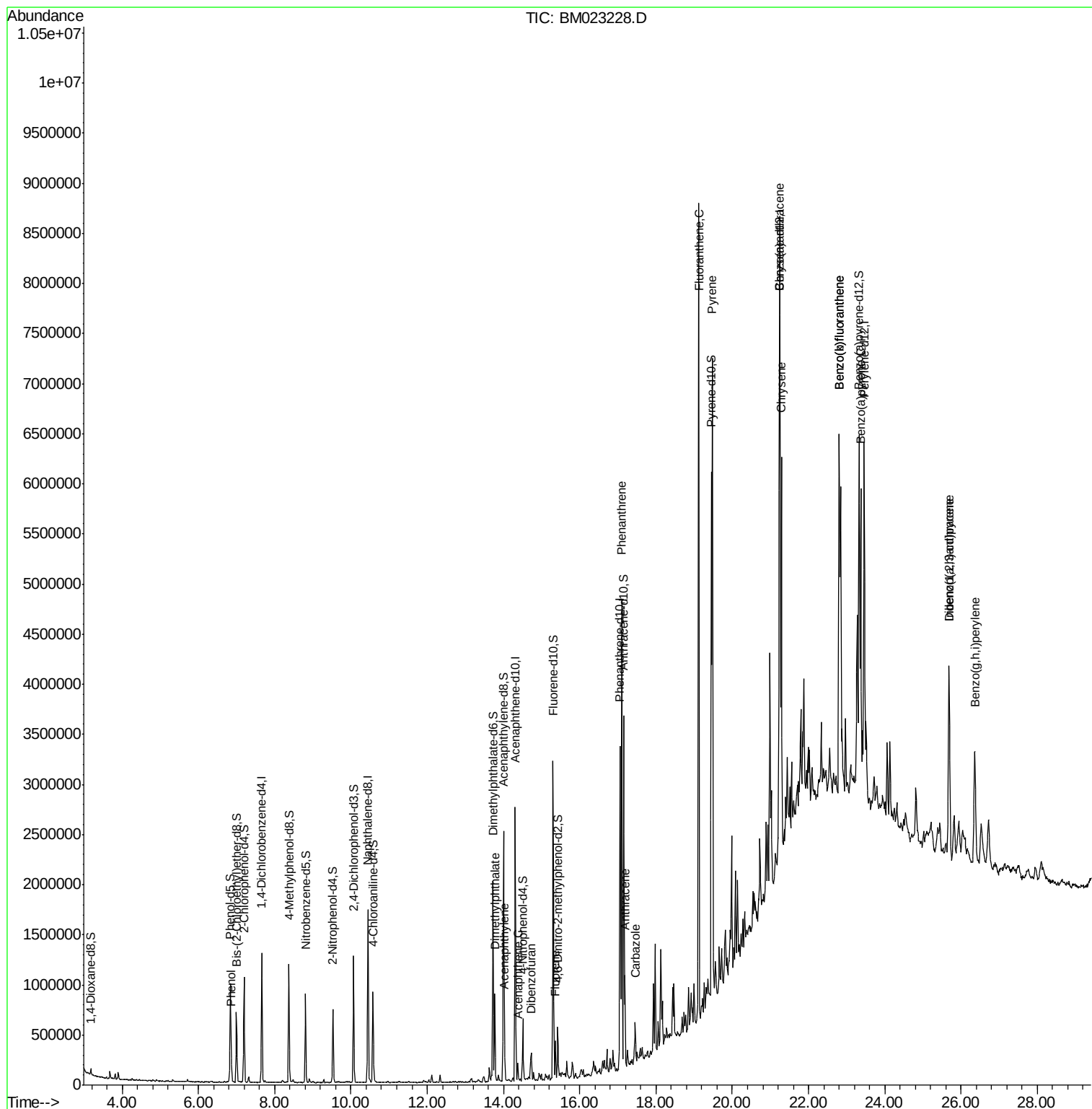
|                            |       |     |         |        | Qvalue |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| 6) Phenol                  | 6.86  | 94  | 98488   | 3.083  | ng/ul  | 98  |
| 45) Dimethylphthalate      | 13.77 | 163 | 564760  | 8.206  | ng/ul  | 100 |
| 48) Acenaphthylene         | 14.03 | 152 | 264587  | 3.209  | ng/ul  | 100 |
| 50) Acenaphthene           | 14.37 | 153 | 68020   | 1.185  | ng/ul  | 99  |
| 54) Dibenzofuran           | 14.71 | 168 | 87794   | 1.077  | ng/ul  | 98  |
| 59) Fluorene               | 15.36 | 166 | 158945  | 2.377  | ng/ul  | 99  |
| 70) Phenanthrene           | 17.10 | 178 | 2798363 | 26.612 | ng/ul  | 99  |
| 72) Anthracene             | 17.19 | 178 | 579728  | 5.335  | ng/ul  | 99  |
| 75) Carbazole              | 17.46 | 167 | 254459  | 2.621  | ng/ul  | 98  |
| 77) Fluoranthene           | 19.12 | 202 | 5028510 | 40.210 | ng/ul  | 98  |
| 80) Pyrene                 | 19.48 | 202 | 3944396 | 31.267 | ng/ul  | 100 |
| 83) Benzo(a)anthracene     | 21.23 | 228 | 2391304 | 17.526 | ng/ul  | 97  |
| 85) Chrysene               | 21.29 | 228 | 2167075 | 17.105 | ng/ul  | 97  |
| 88) Benzo(b)fluoranthene   | 22.80 | 252 | 3257655 | 21.179 | ng/ul  | 98  |
| 89) Benzo(k)fluoranthene   | 22.80 | 252 | 3257655 | 22.057 | ng/ul  | 97  |
| 91) Benzo(a)pyrene         | 23.37 | 252 | 2257387 | 15.297 | ng/ul  | 97  |
| 92) Indeno(1,2,3-cd)pyrene | 25.69 | 276 | 1629188 | 9.280  | ng/ul  | 97  |
| 93) Dibenzo(a,h)anthracene | 25.69 | 278 | 439354  | 2.993  | ng/ul# | 82  |
| 94) Benzo(g,h,i)perylene   | 26.36 | 276 | 1431993 | 9.907  | ng/ul  | 99  |

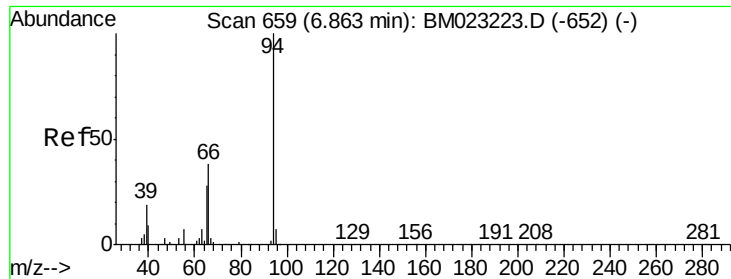
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#6

Phenol

Concen: 3.083 ng/ul

RT: 6.86 min Scan# 659

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

Instrument :

BNA\_M

ClientSampleId :

BEPM2

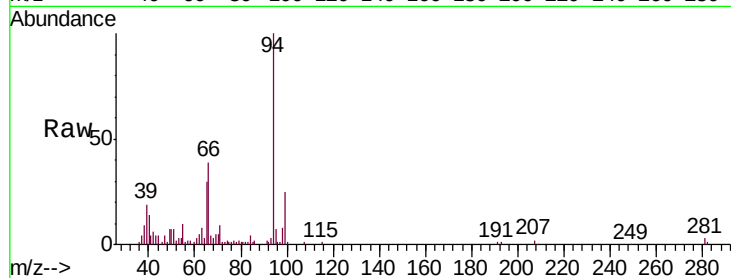
Tgt Ion: 94 Resp: 98488

Ion Ratio Lower Upper

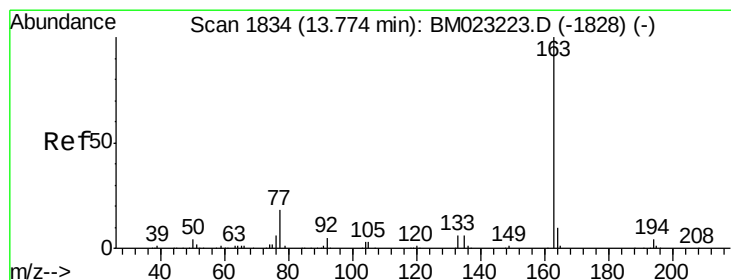
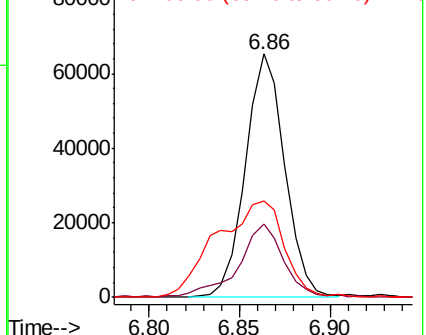
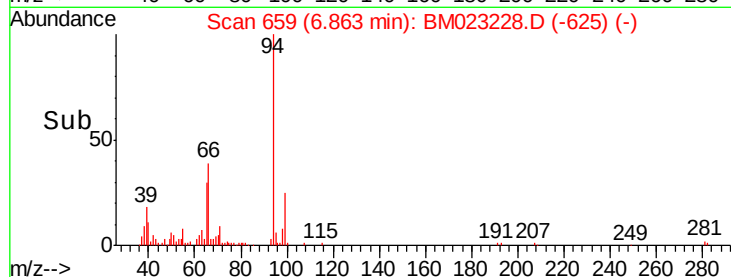
94 100

65 30.3 23.7 35.5

66 39.5 32.9 49.3



Abundance Ion 94.00 (93.70 to 94.70): BM023228.D (-625) (-)



#45

Dimethylphthalate

Concen: 8.206 ng/ul

RT: 13.77 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

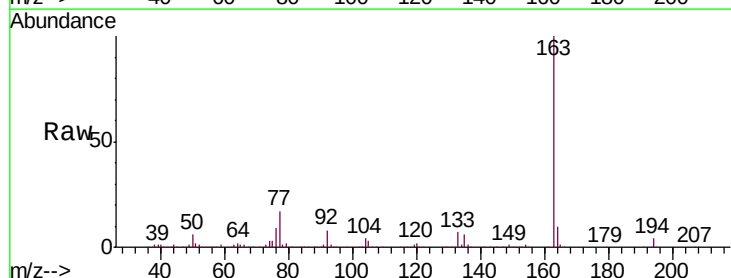
Tgt Ion: 163 Resp: 564760

Ion Ratio Lower Upper

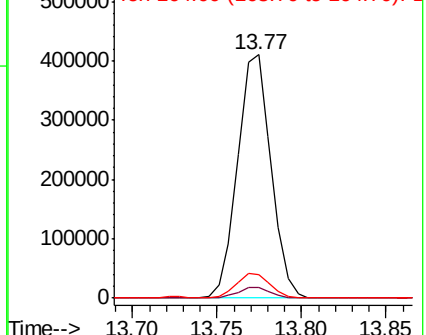
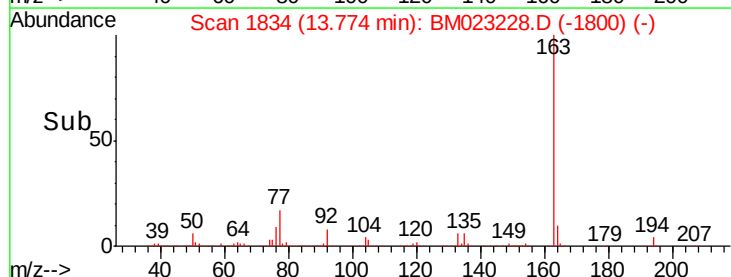
163 100

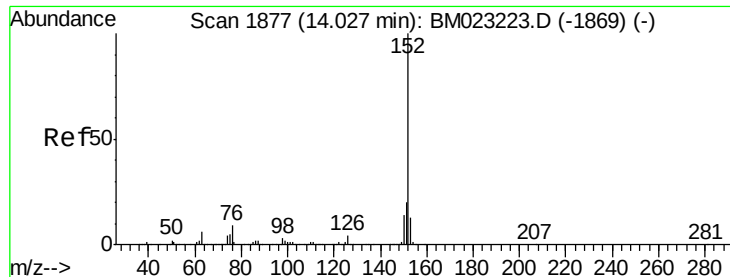
194 4.5 3.5 5.3

164 9.8 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): BM023228.D (-1800) (-)





#48

Acenaphthylene

Concen: 3.209 ng/ul

RT: 14.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

Instrument :

BNA\_M

ClientSampleId :

BEPM2

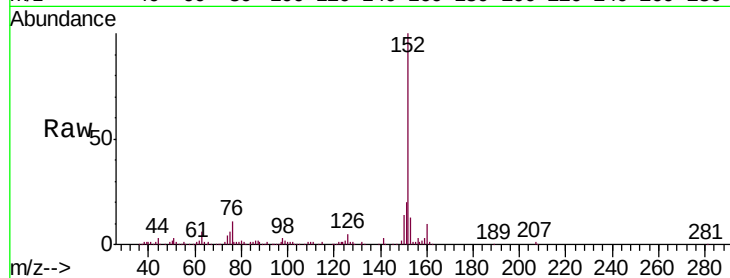
Tgt Ion:152 Resp: 264587

Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.6

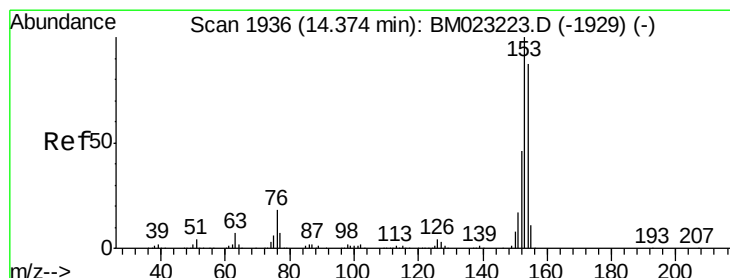
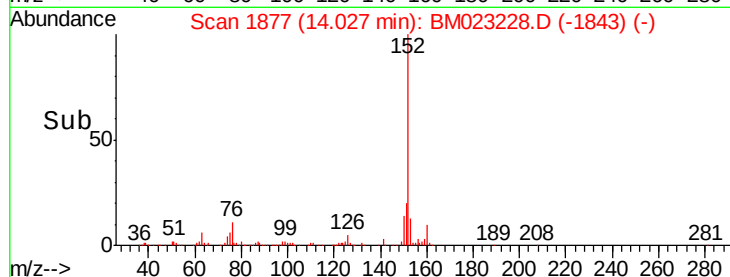
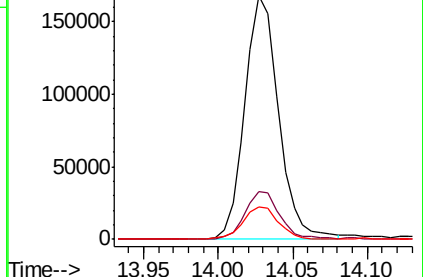
153 13.2 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 1.185 ng/ul

RT: 14.37 min Scan# 1936

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

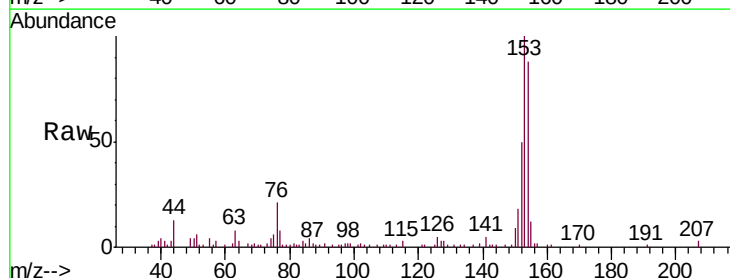
Tgt Ion:153 Resp: 68020

Ion Ratio Lower Upper

153 100

152 49.6 38.0 57.0

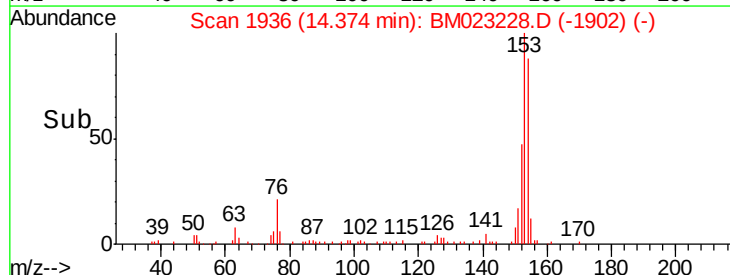
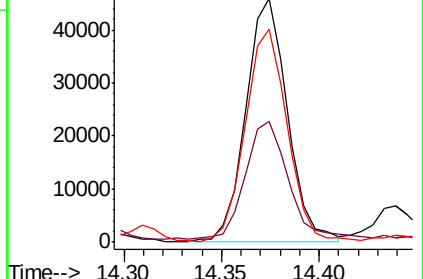
154 87.6 70.4 105.6

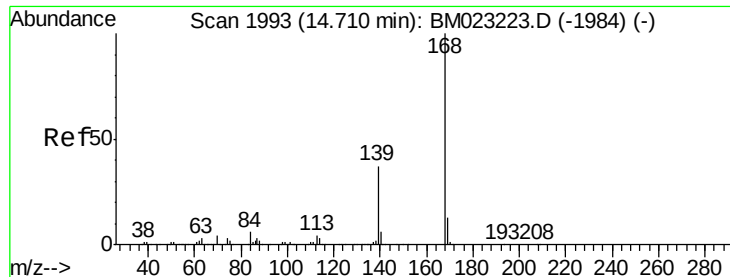


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 1.077 ng/ul

RT: 14.71 min Scan# 1993

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

Instrument :

BNA\_M

ClientSampleId :

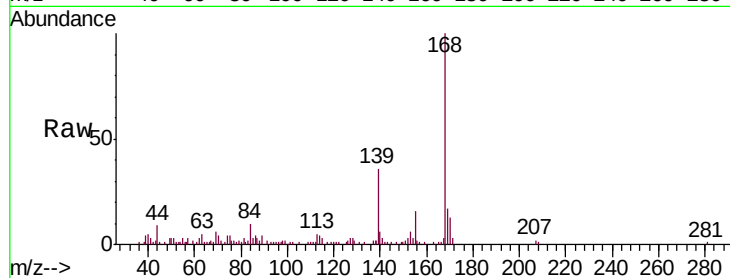
BEPM2

Tgt Ion:168 Resp: 87794

Ion Ratio Lower Upper

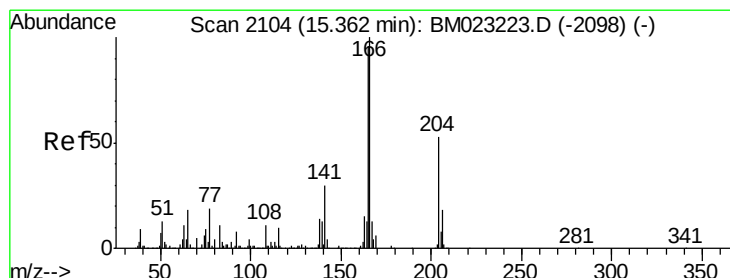
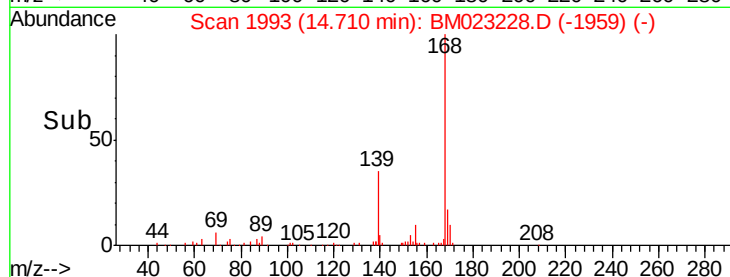
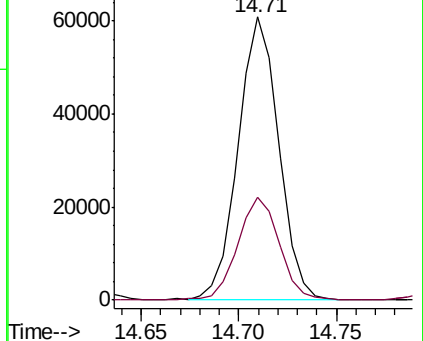
168 100

139 36.4 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 2.377 ng/ul

RT: 15.36 min Scan# 2104

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

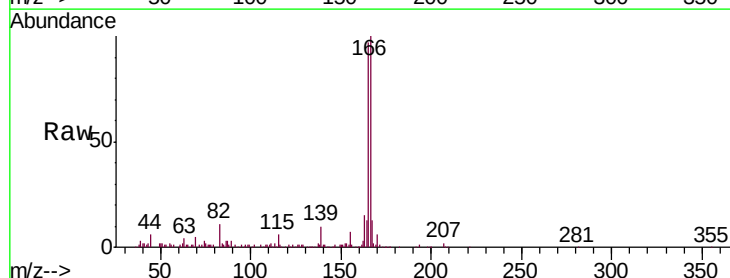
Tgt Ion:166 Resp: 158945

Ion Ratio Lower Upper

166 100

165 97.3 77.4 116.0

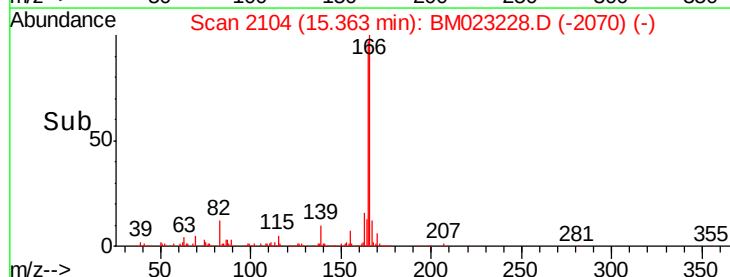
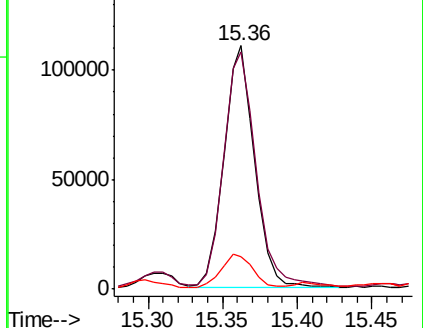
167 13.1 10.8 16.2

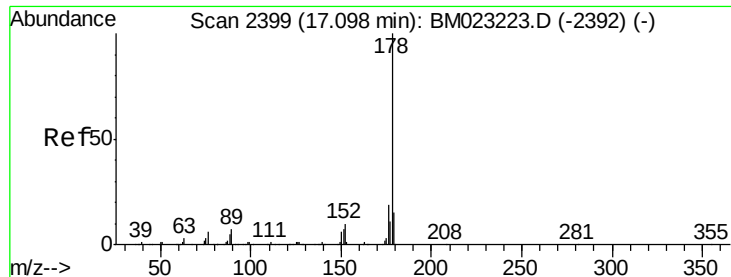


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 26.612 ng/ul

RT: 17.10 min Scan# 2399

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

Instrument :

BNA\_M

ClientSampled :

BEPM2

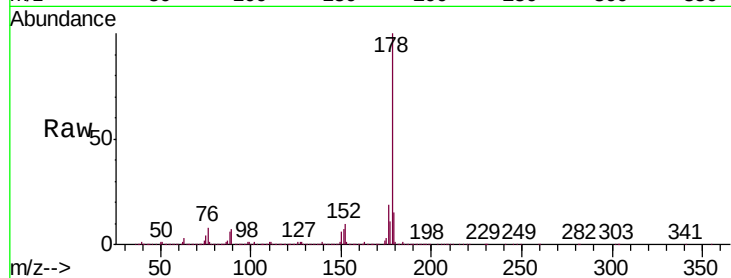
Tgt Ion:178 Resp: 2798363

Ion Ratio Lower Upper

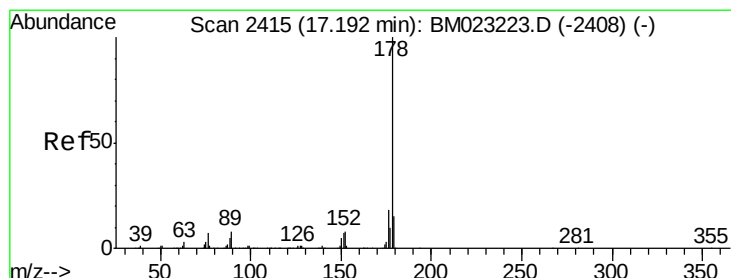
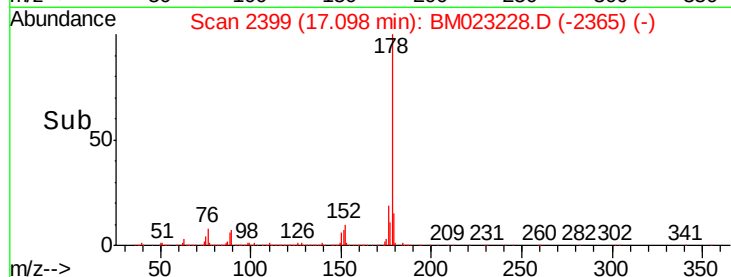
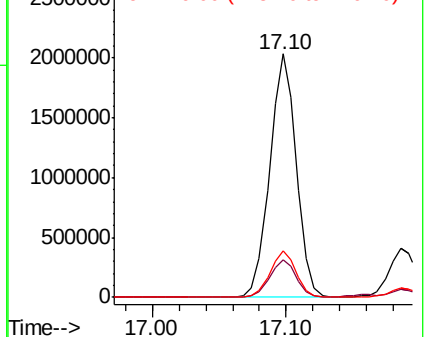
178 100

179 15.3 12.3 18.5

176 19.0 15.5 23.3



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



#72

Anthracene

Concen: 5.335 ng/ul

RT: 17.19 min Scan# 2414

Delta R.T. -0.01 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

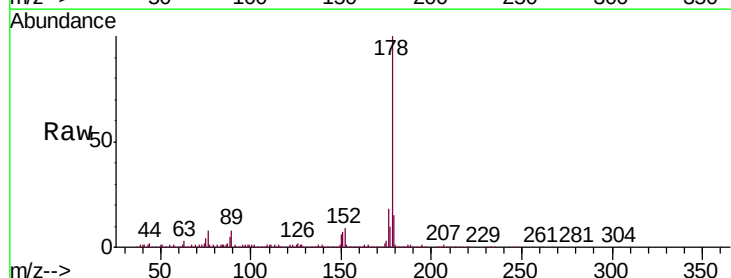
Tgt Ion:178 Resp: 579728

Ion Ratio Lower Upper

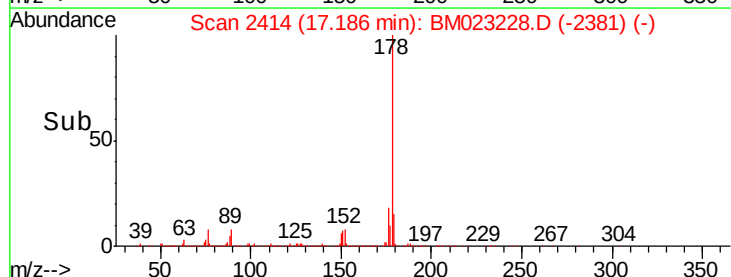
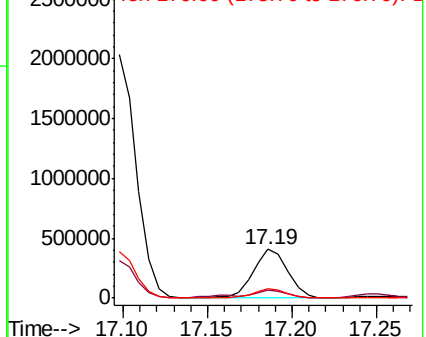
178 100

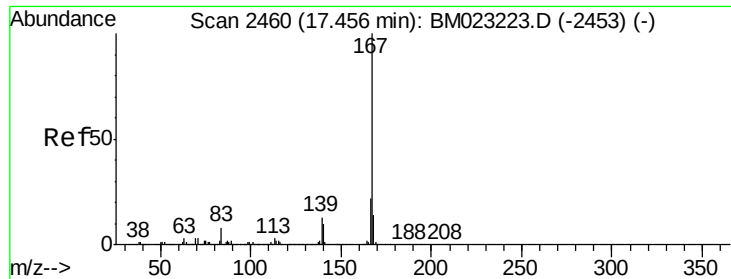
179 15.4 12.3 18.5

176 18.2 15.0 22.4



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

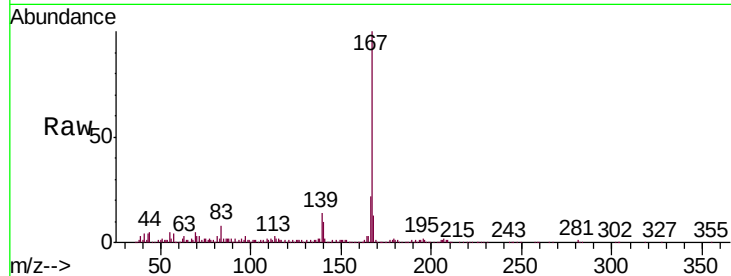




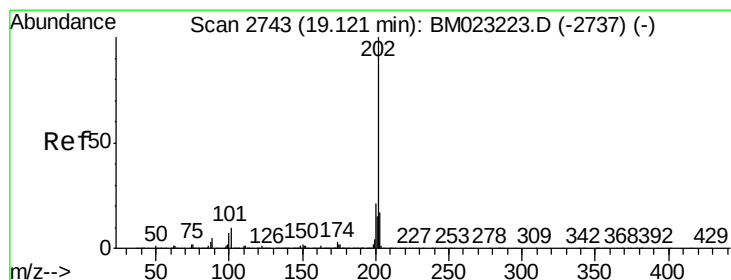
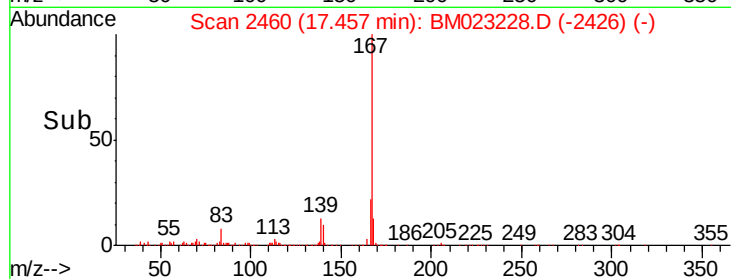
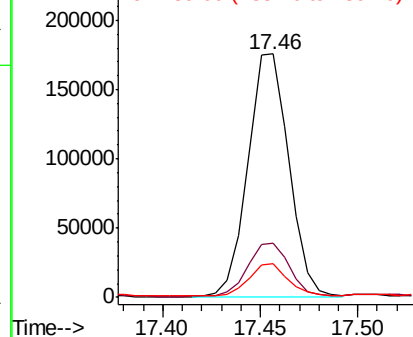
#75  
 Carbazole  
 Concen: 2.621 ng/ul  
 RT: 17.46 min Scan# 2460  
 Delta R.T. 0.00 min  
 Lab File: BM023228.D  
 Acq: 17 Oct 2019 20:18

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEPM2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.3  | 17.4  | 26.0  |
| 139     | 13.6  | 10.2  | 15.2  |

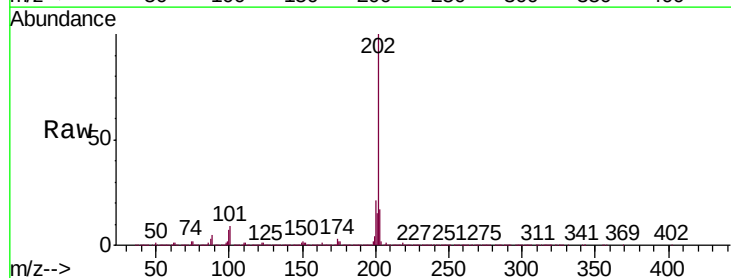


Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

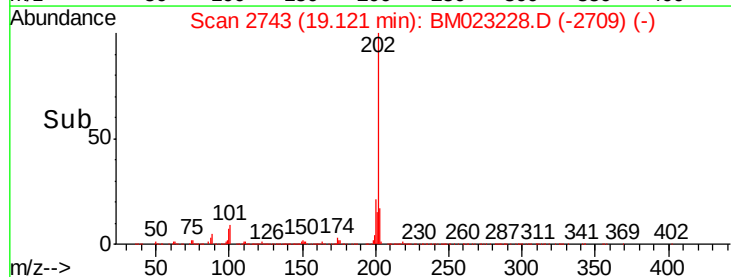
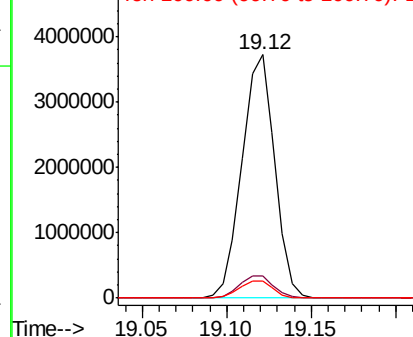


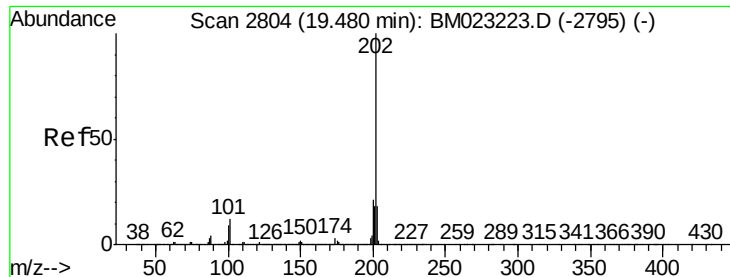
#77  
 Fluoranthene  
 Concen: 40.210 ng/ul  
 RT: 19.12 min Scan# 2743  
 Delta R.T. 0.00 min  
 Lab File: BM023228.D  
 Acq: 17 Oct 2019 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.9   | 7.8   | 11.8  |
| 100     | 6.9   | 6.1   | 9.1   |



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): E

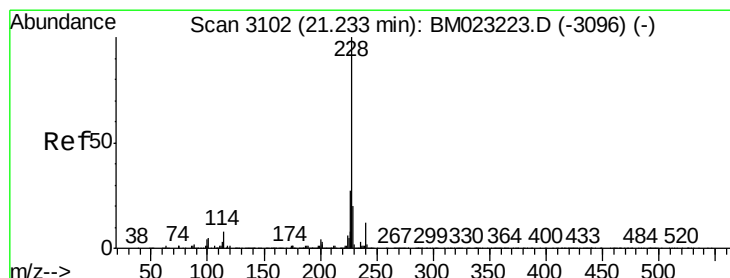
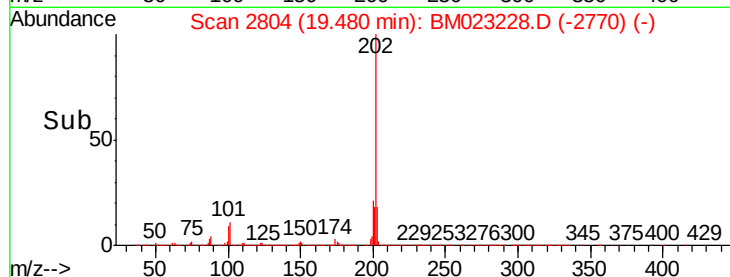
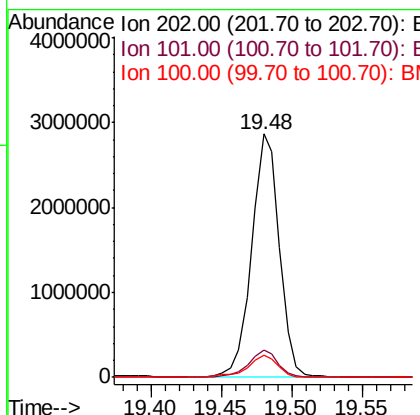
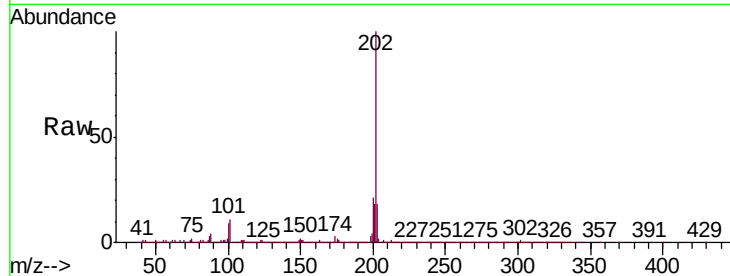




#80  
 Pyrene  
 Concen: 31.267 ng/ul  
 RT: 19.48 min Scan# 2804  
 Delta R.T. 0.00 min  
 Lab File: BM023228.D  
 Acq: 17 Oct 2019 20:18

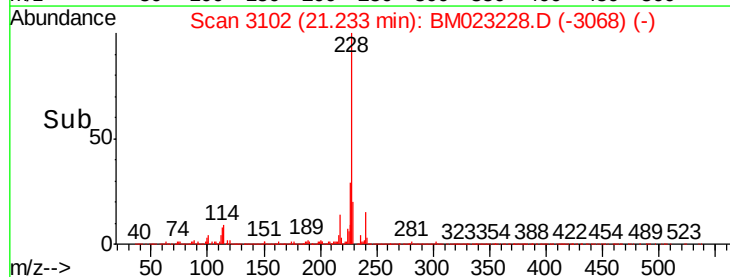
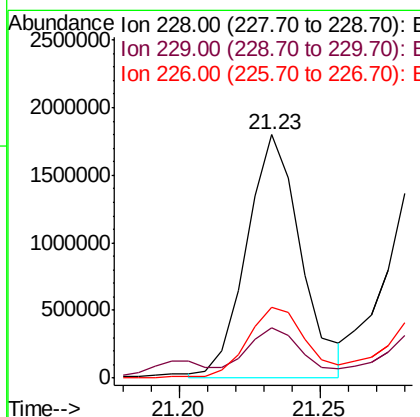
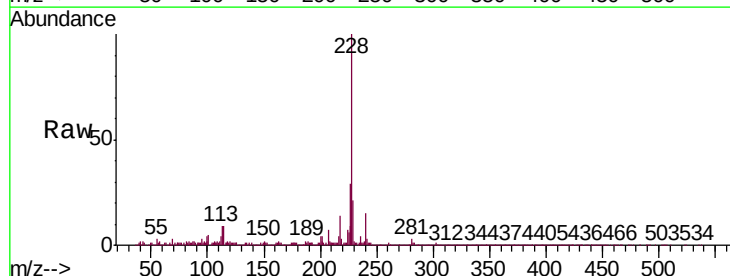
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEPM2

Tgt Ion:202 Resp: 3944396  
 Ion Ratio Lower Upper  
 202 100  
 101 11.3 9.1 13.7  
 100 9.2 7.5 11.3

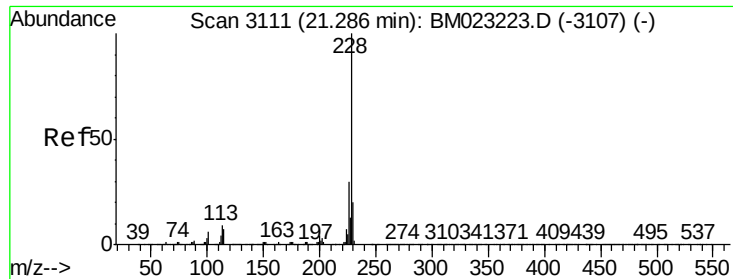


#83  
 Benzo(a)anthracene  
 Concen: 17.526 ng/ul  
 RT: 21.23 min Scan# 3102  
 Delta R.T. 0.00 min  
 Lab File: BM023228.D  
 Acq: 17 Oct 2019 20:18

Tgt Ion:228 Resp: 2391304  
 Ion Ratio Lower Upper  
 228 100  
 229 20.6 15.7 23.5  
 226 29.0 21.6 32.4



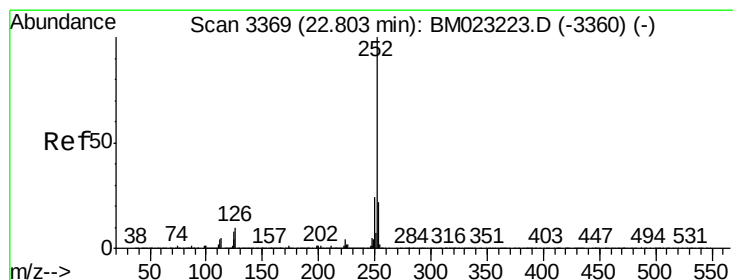
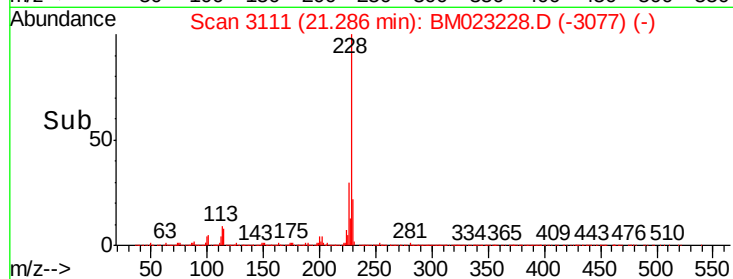
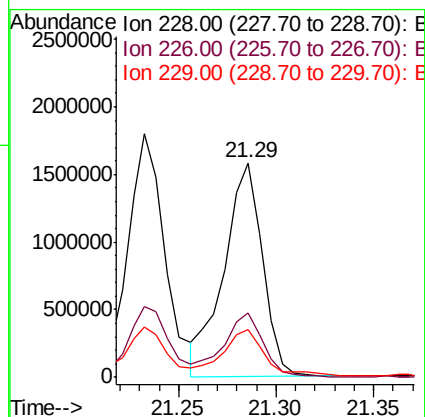
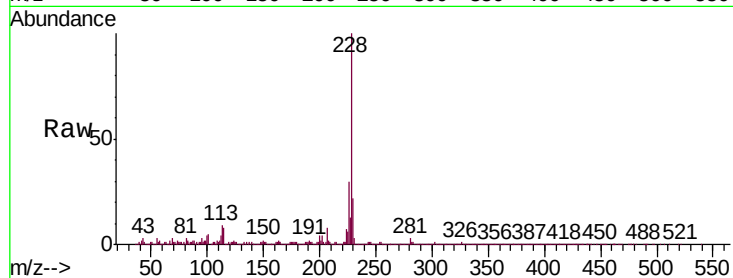




#85  
Chrysene  
Concen: 17.105 ng/ul  
RT: 21.29 min Scan# 3111  
Delta R.T. 0.00 min  
Lab File: BM023228.D  
Acq: 17 Oct 2019 20:18

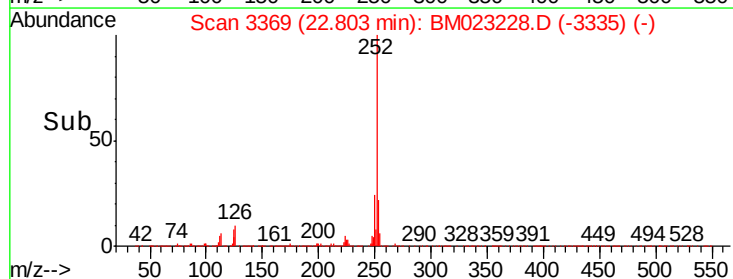
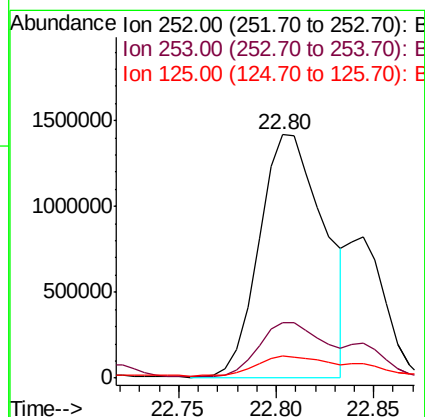
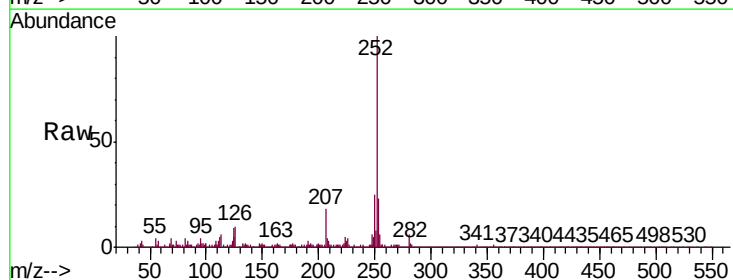
Instrument :  
BNA\_M  
ClientSampleId :  
BEPM2

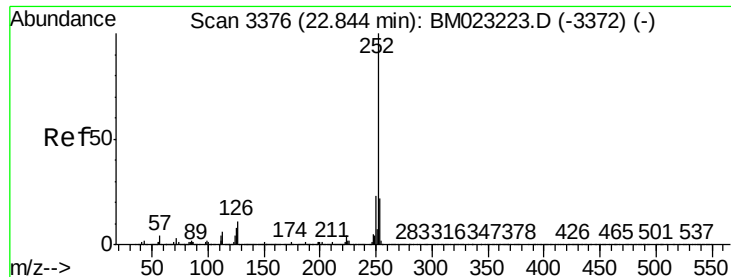
Tgt Ion:228 Resp: 2167075  
Ion Ratio Lower Upper  
228 100  
226 30.1 23.8 35.6  
229 22.1 15.5 23.3



#88  
Benzo(b)fluoranthene  
Concen: 21.179 ng/ul  
RT: 22.80 min Scan# 3369  
Delta R.T. 0.00 min  
Lab File: BM023228.D  
Acq: 17 Oct 2019 20:18

Tgt Ion:252 Resp: 3257655  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.6 26.4  
125 9.1 6.4 9.6





#89

Benzo(k)fluoranthene

Concen: 22.057 ng/ul

RT: 22.80 min Scan# 3369

Delta R.T. -0.04 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

Instrument :

BNA\_M

ClientSampleId :

BEPM2

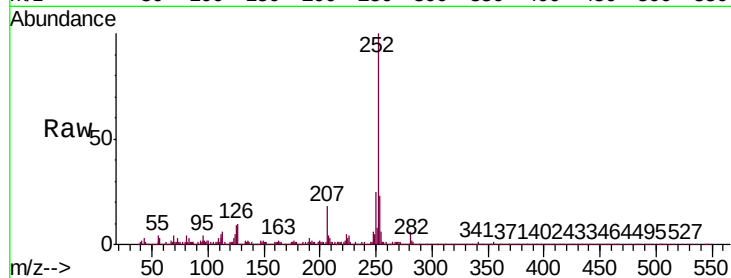
Tgt Ion:252 Resp: 3257655

Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

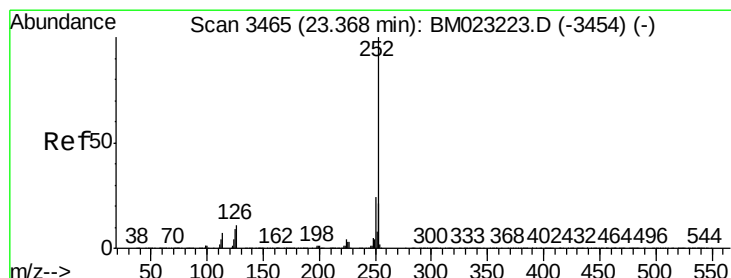
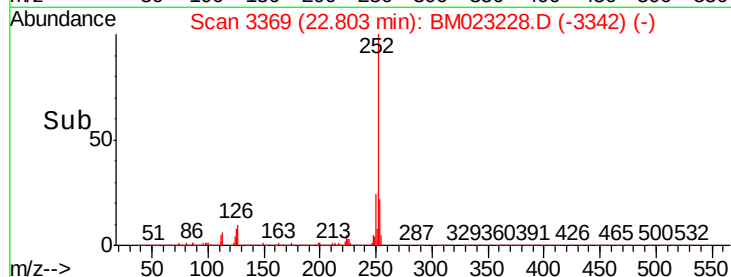
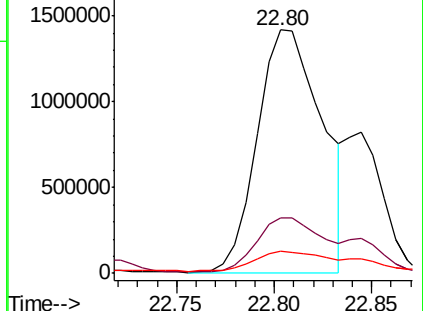
125 9.1 6.5 9.7



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



#91

Benzo(a)pyrene

Concen: 15.297 ng/ul

RT: 23.37 min Scan# 3465

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

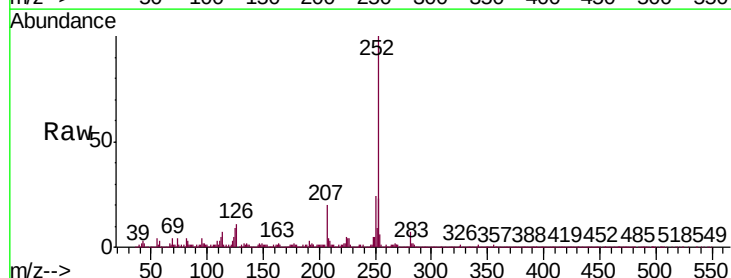
Tgt Ion:252 Resp: 2257387

Ion Ratio Lower Upper

252 100

253 23.1 17.2 25.8

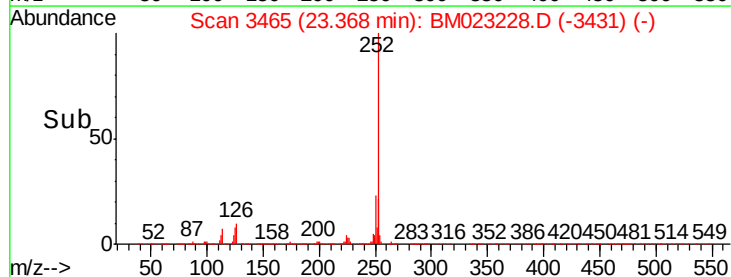
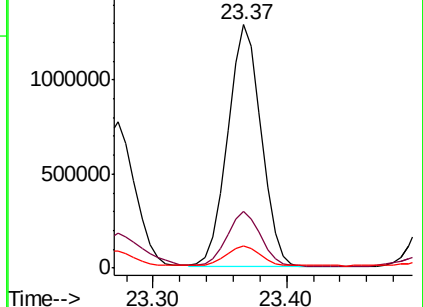
125 9.0 7.4 11.0

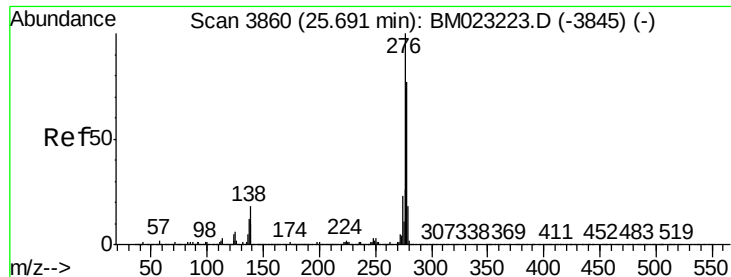


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



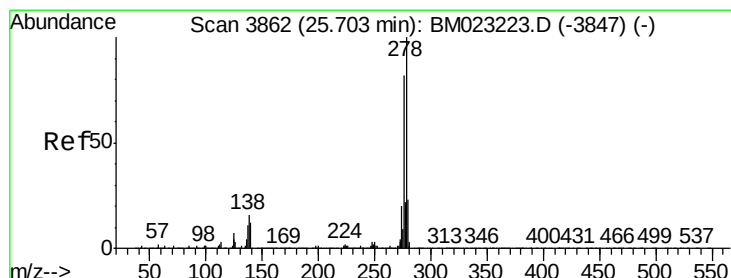
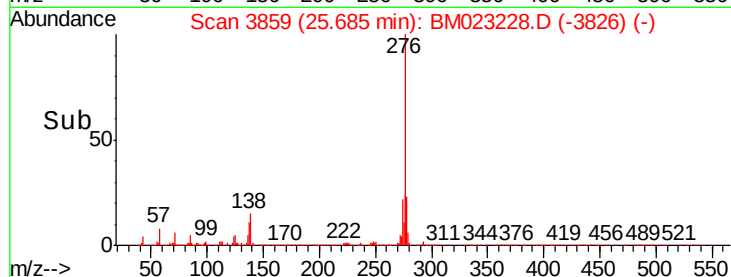
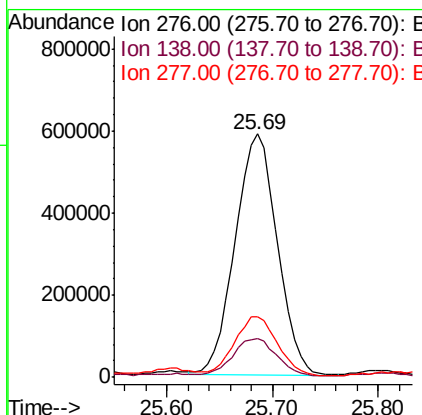
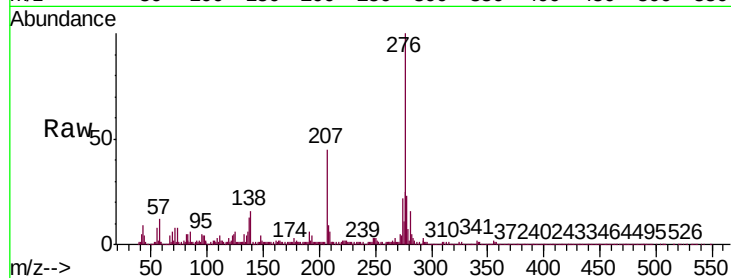


#92

Indeno(1,2,3-cd)pyrene  
Concen: 9.280 ng/ul  
RT: 25.69 min Scan# 3859  
Delta R.T. -0.01 min  
Lab File: BM023228.D  
Acq: 17 Oct 2019 20:18

Instrument :  
BNA\_M  
ClientSampleId :  
BEPM2

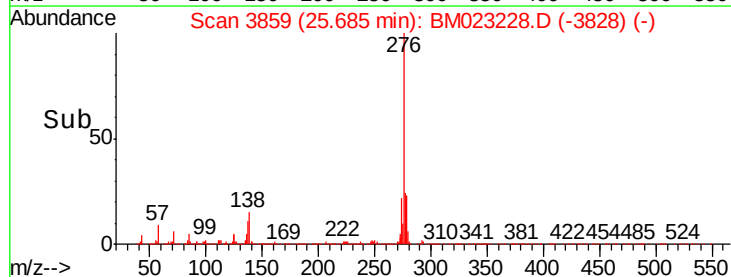
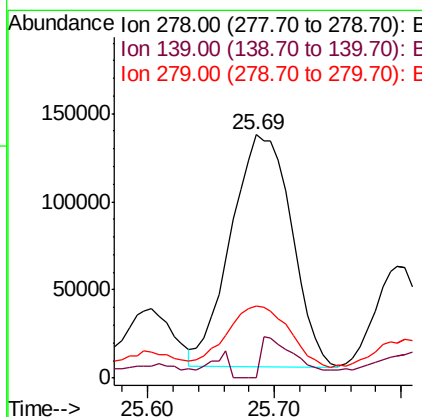
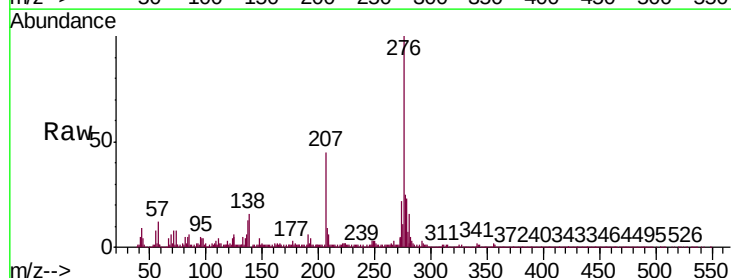
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.9  | 14.9  | 22.3  |
| 277     | 24.7  | 19.8  | 29.8  |

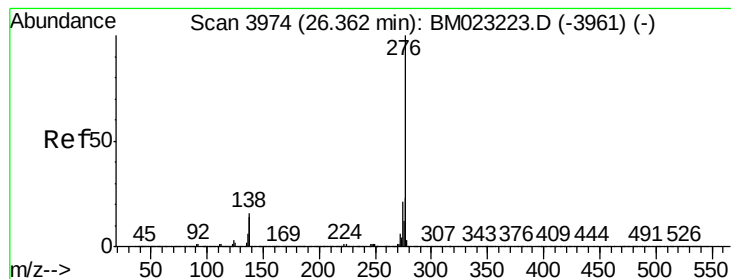


#93

Dibenzo(a,h)anthracene  
Concen: 2.993 ng/ul  
RT: 25.69 min Scan# 3859  
Delta R.T. -0.02 min  
Lab File: BM023228.D  
Acq: 17 Oct 2019 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 10.0  | 15.0# |
| 279     | 29.8  | 19.4  | 29.0# |





#94

Benzo(g,h,i)perylene

Concen: 9.907 ng/ul

RT: 26.36 min Scan# 3974

Delta R.T. 0.00 min

Lab File: BM023228.D

Acq: 17 Oct 2019 20:18

Instrument :

BNA\_M

ClientSampleId :

BEPM2

Tgt Ion:276 Resp: 1431993

Ion Ratio Lower Upper

276 100

138 16.5 14.4 21.6

277 24.3 19.4 29.2

