

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
 Data File : BM014802.D  
 Acq On : 24 Apr 2018 06:52  
 Operator : SJ/JU  
 Sample : J2434-11DL 2X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Apr 24 12:41:01 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Apr 24 02:13:13 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.53  | 152  | 380967   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.37 | 136  | 1608301  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 15.13 | 164  | 839514   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.84 | 188  | 1771745  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.93 | 240  | 1788614  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 24.42 | 264  | 1897165  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.67  | 96  | 15853  | 1.82  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.65  | 99  | 258111 | 8.76  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.83  | 67  | 186564 | 9.88  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 8.05  | 132 | 227601 | 9.24  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.22  | 113 | 177134 | 7.54  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.70  | 128 | 105990 | 9.11  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.43 | 143 | 105144 | 9.08  | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.97 | 165 | 202209 | 8.60  | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.49 | 131 | 233114 | 10.04 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.52 | 166 | 606869 | 9.26  | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.83 | 160 | 778790 | 9.62  | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.28 | 143 | 58421  | 4.80  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 16.10 | 176 | 526736 | 9.24  | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.20 | 200 | 26954  | 2.81  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.93 | 188 | 775840 | 9.40  | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.17 | 212 | 832985 | 9.84  | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.26 | 264 | 849939 | 9.12  | ng/ul | 0.00 |

## Target Compounds

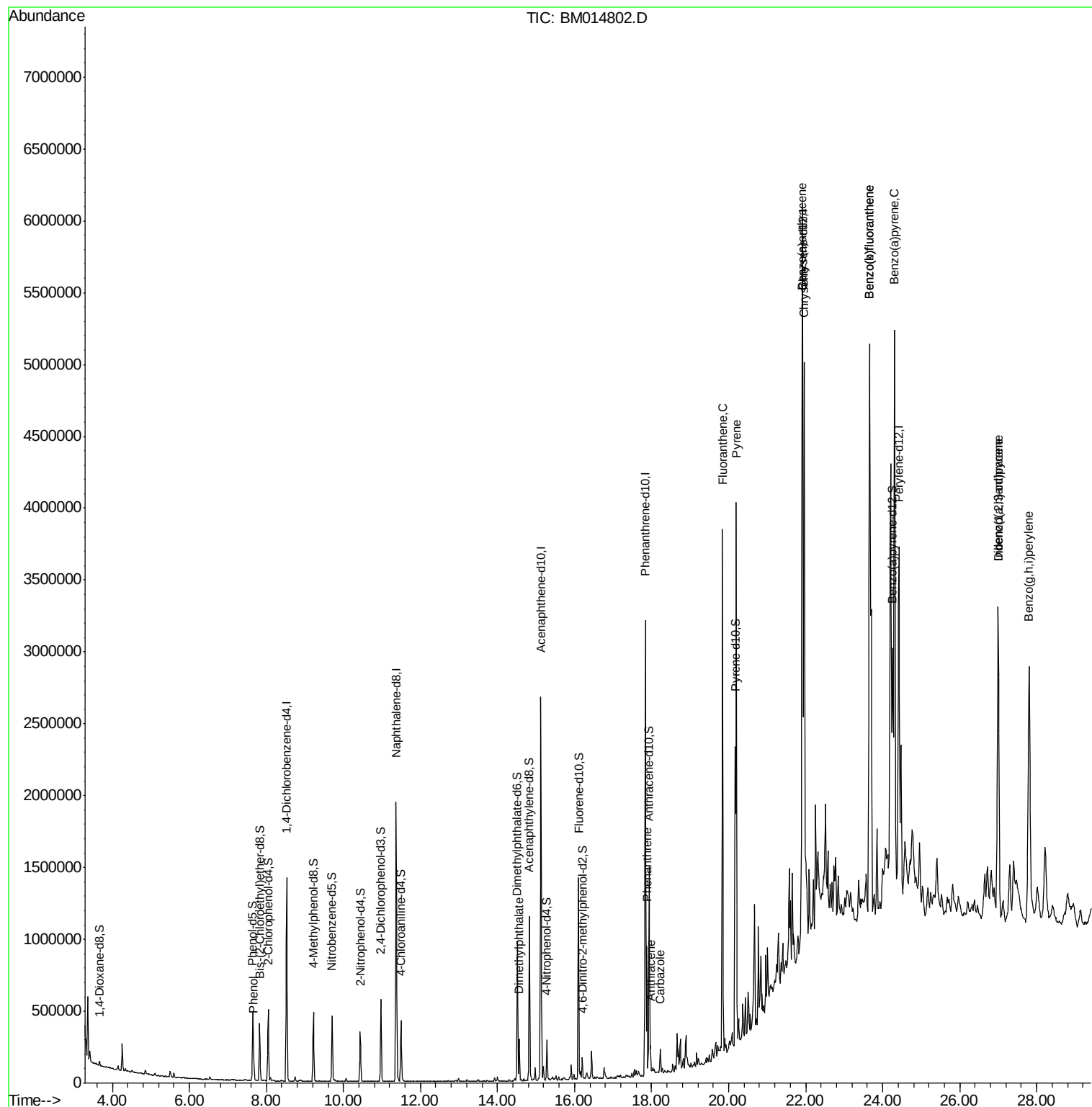
|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 6) Phenol                  | 7.67  | 94  | 61748   | 2.131  | ng/ul# | 79 |
| 44) Dimethylphthalate      | 14.56 | 163 | 169222  | 2.671  | ng/ul  | 99 |
| 69) Phenanthrene           | 17.88 | 178 | 508557  | 5.345  | ng/ul  | 98 |
| 71) Anthracene             | 17.97 | 178 | 109431  | 1.133  | ng/ul  | 99 |
| 72) Carbazole              | 18.23 | 167 | 90505   | 1.099  | ng/ul  | 97 |
| 74) Fluoranthene           | 19.84 | 202 | 2069744 | 19.951 | ng/ul# | 83 |
| 77) Pyrene                 | 20.20 | 202 | 2230865 | 21.347 | ng/ul# | 81 |
| 80) Benzo(a)anthracene     | 21.91 | 228 | 1843265 | 17.623 | ng/ul  | 98 |
| 82) Chrysene               | 21.96 | 228 | 2022961 | 20.660 | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene   | 23.66 | 252 | 3907743 | 34.942 | ng/ul# | 95 |
| 86) Benzo(k)fluoranthene   | 23.66 | 252 | 3907743 | 36.337 | ng/ul# | 93 |
| 88) Benzo(a)pyrene         | 24.31 | 252 | 2956372 | 27.868 | ng/ul# | 96 |
| 89) Indeno(1,2,3-cd)pyrene | 27.00 | 276 | 2216066 | 17.267 | ng/ul# | 92 |
| 90) Dibenzo(a,h)anthracene | 27.00 | 278 | 575690  | 5.328  | ng/ul# | 91 |
| 91) Benzo(g,h,i)perylene   | 27.80 | 276 | 2277539 | 21.571 | ng/ul# | 89 |

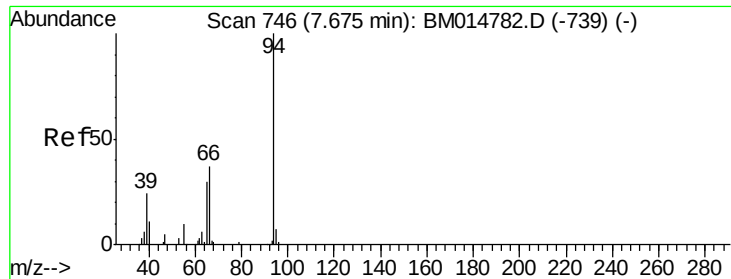
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 24 02:13:13 2018  
Response via : Initial Calibration





#6

Phenol

Concen: 2.131 ng/ul

RT: 7.67 min Scan# 746

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

Instrument :

BNA\_M

ClientSampleId :

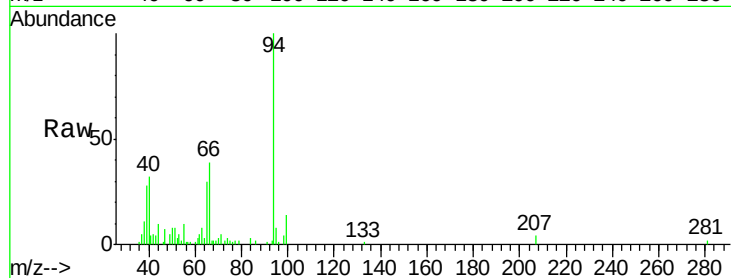
Tot Ion: 94 Resp: 61748

Ion Ratio Lower Upper

94 100

65 29.5 28.2 42.4

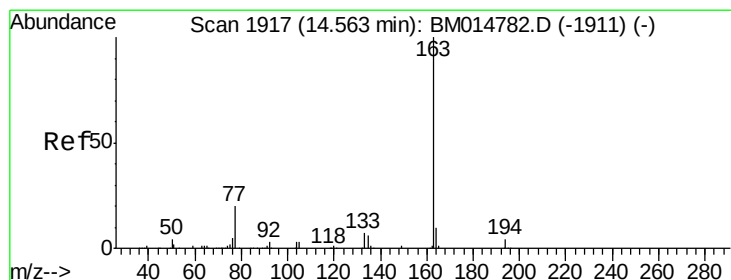
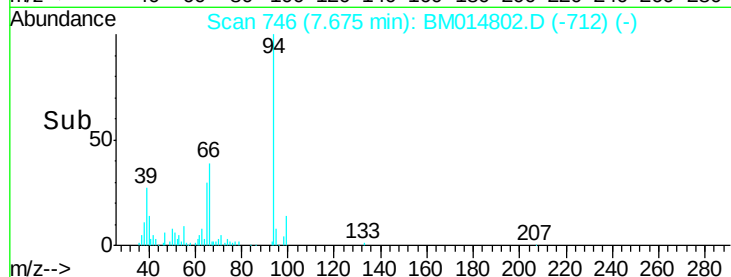
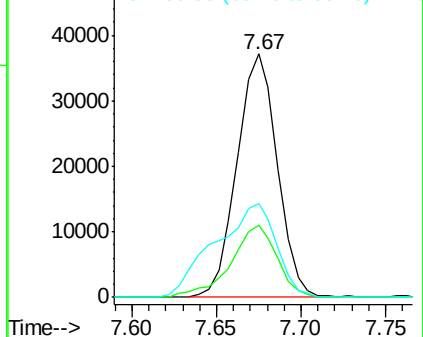
66 38.5 47.2 70.8#



Abundance Ion 94.00 (93.70 to 94.70): BM014802.D (-712) (-)

Ion 65.00 (64.70 to 65.70): BM014802.D (-712) (-)

Ion 66.00 (65.70 to 66.70): BM014802.D (-712) (-)



#44

Dimethylphthalate

Concen: 2.671 ng/ul

RT: 14.56 min Scan# 1917

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

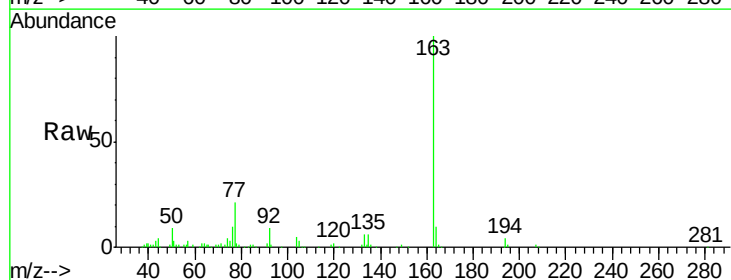
Tgt Ion: 163 Resp: 169222

Ion Ratio Lower Upper

163 100

194 4.5 3.5 5.3

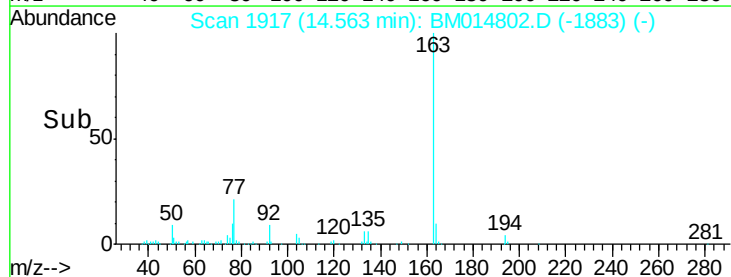
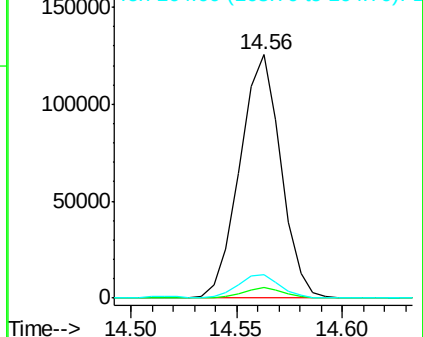
164 9.8 8.2 12.4

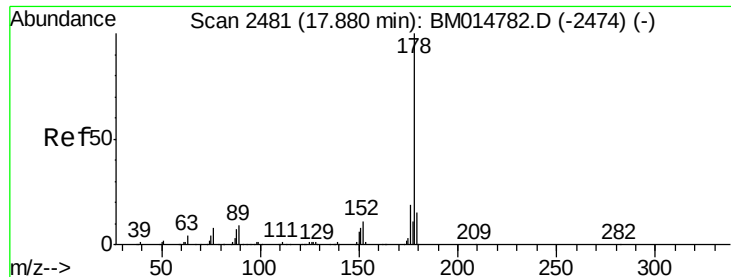


Abundance Ion 163.00 (162.70 to 163.70): BM014802.D (-1883) (-)

Ion 194.00 (193.70 to 194.70): BM014802.D (-1883) (-)

Ion 164.00 (163.70 to 164.70): BM014802.D (-1883) (-)





#69

Phenanthrene

Concen: 5.345 ng/ul

RT: 17.88 min Scan# 2481

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

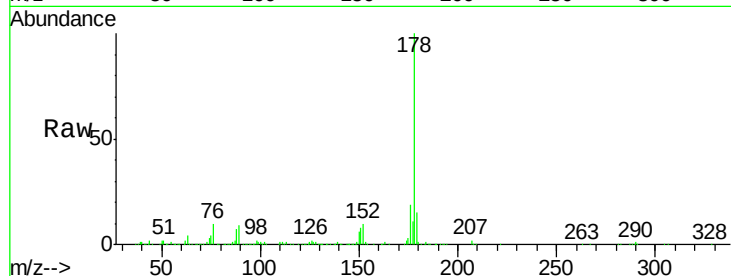
Instrument :

BNA\_M

ClientSampled :

Tot Ion:178 Resp: 508557

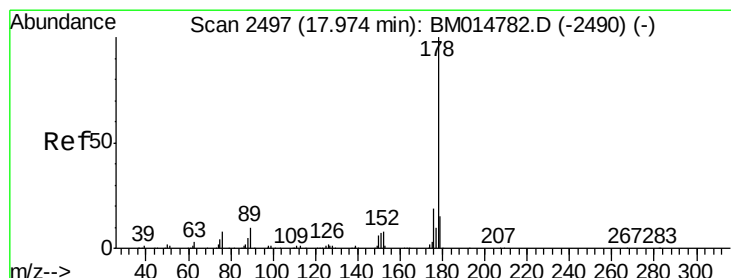
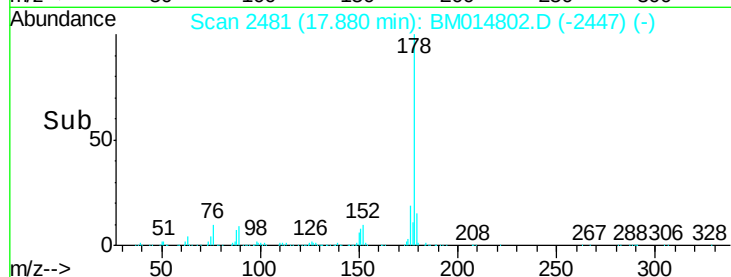
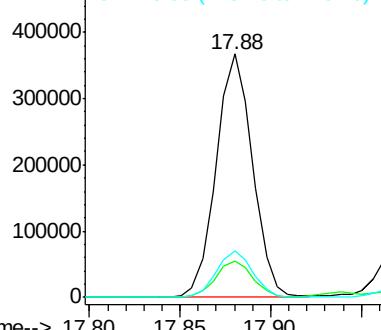
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 14.9  | 12.6  | 19.0  |
| 176 | 19.1  | 14.9  | 22.3  |



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: 1.133 ng/ul

RT: 17.97 min Scan# 2496

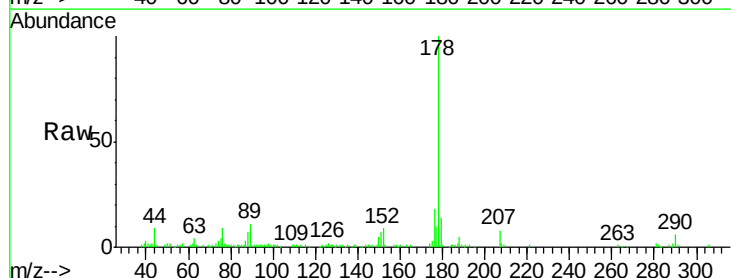
Delta R.T. -0.01 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

Tgt Ion:178 Resp: 109431

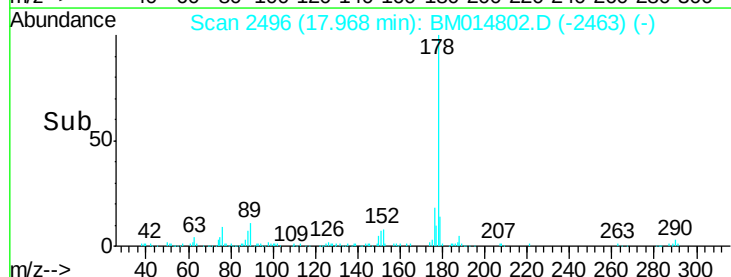
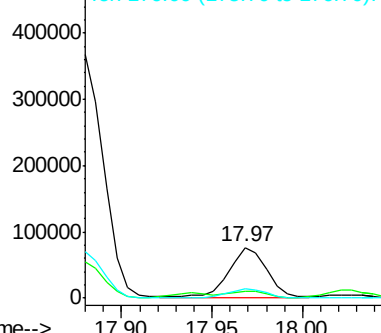
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 14.2  | 11.7  | 17.5  |
| 176 | 18.3  | 14.6  | 21.8  |

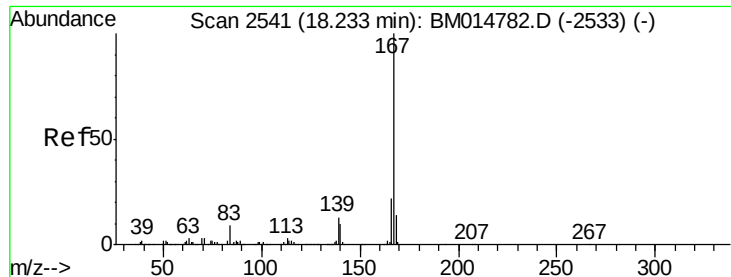


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 1.099 ng/ul

RT: 18.23 min Scan# 2540

Delta R.T. -0.01 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

Instrument :

BNA\_M

ClientSampleId :

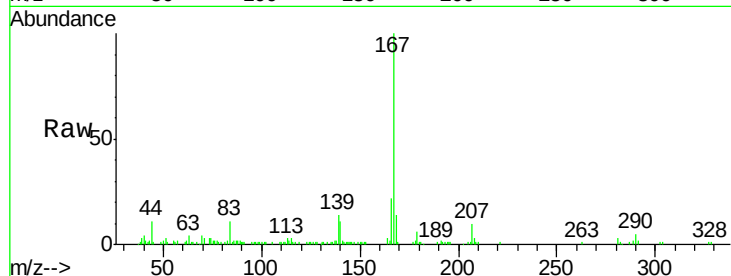
Tot Ion:167 Resp: 90505

Ion Ratio Lower Upper

167 100

166 22.4 17.1 25.7

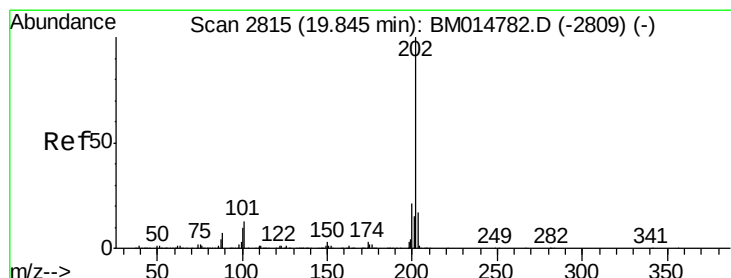
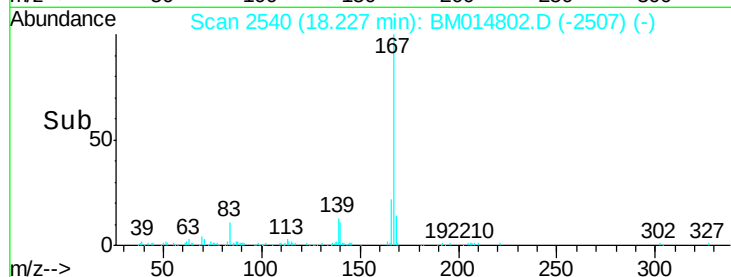
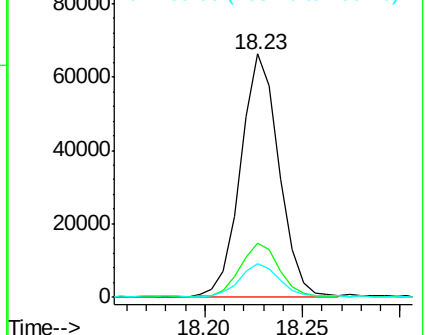
139 14.0 10.0 15.0



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: 19.951 ng/ul

RT: 19.84 min Scan# 2815

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

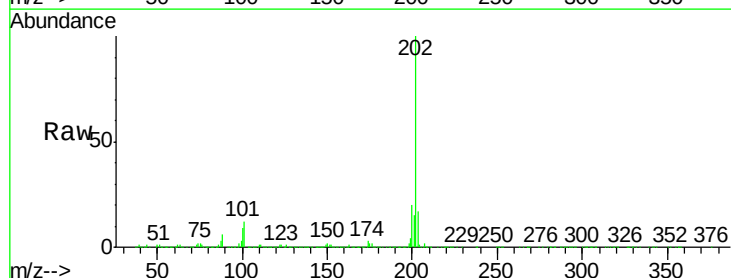
Tgt Ion:202 Resp: 2069744

Ion Ratio Lower Upper

202 100

101 12.0 4.6 7.0#

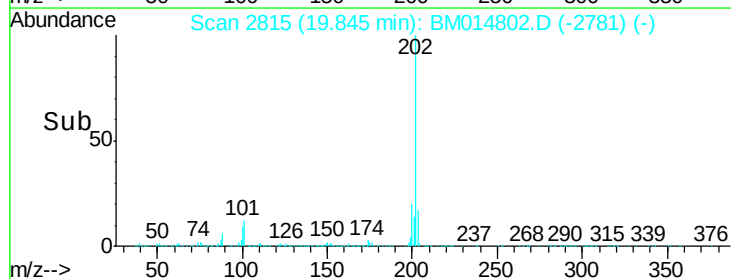
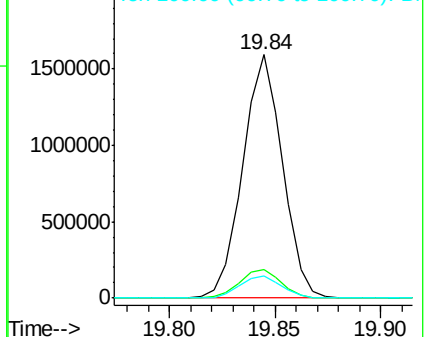
100 9.1 3.4 5.2#

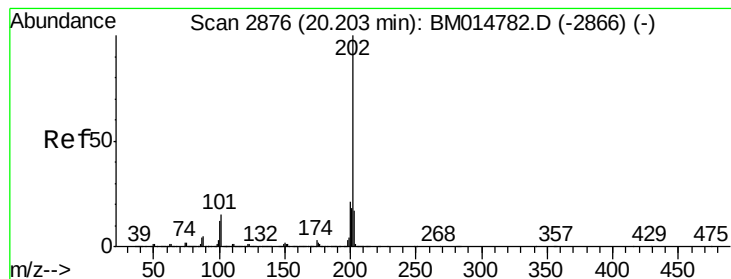


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pvrene

Concen: 21.347 ng/ul

RT: 20.20 min Scan# 2876

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

Instrument :

BNA\_M

ClientSampleId :

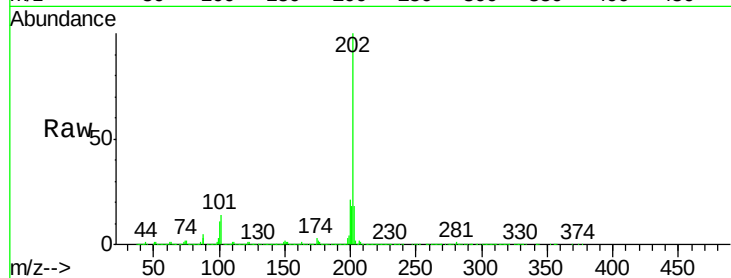
Tot Ion:202 Resp: 2230865

Ion Ratio Lower Upper

202 100

101 13.7 5.1 7.7#

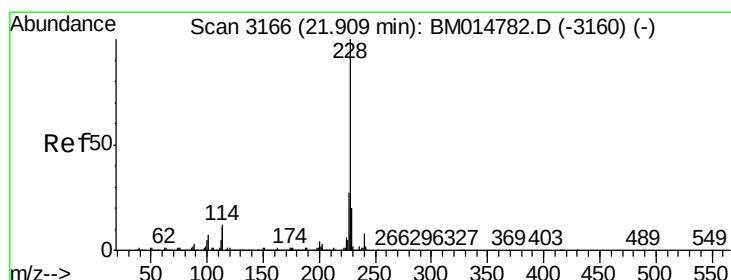
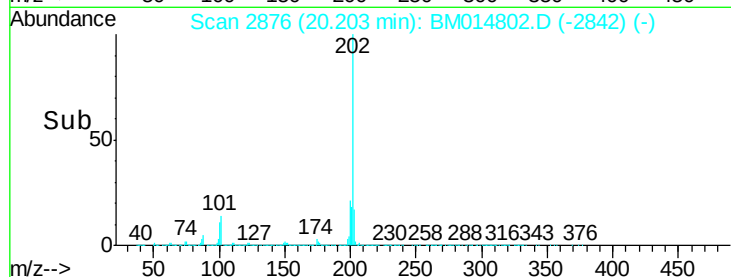
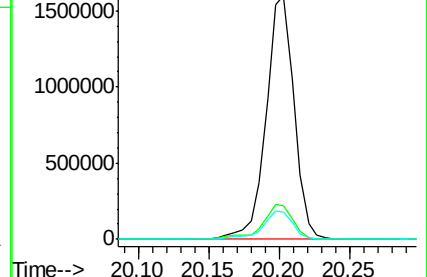
100 11.4 4.9 7.3#



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

Benzo(a)anthracene

Concen: 17.623 ng/ul

RT: 21.91 min Scan# 3166

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

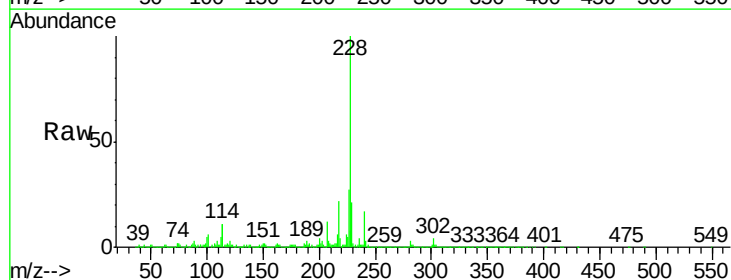
Tgt Ion:228 Resp: 1843265

Ion Ratio Lower Upper

228 100

229 20.9 15.4 23.0

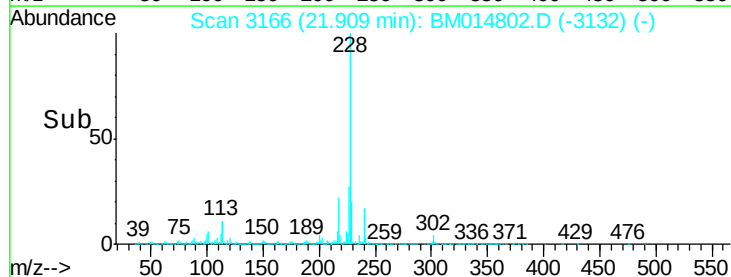
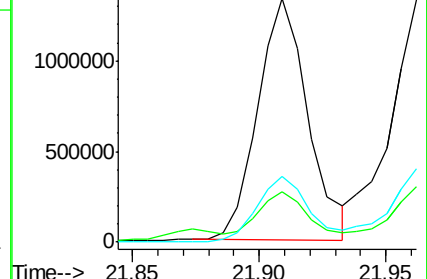
226 27.2 21.4 32.0

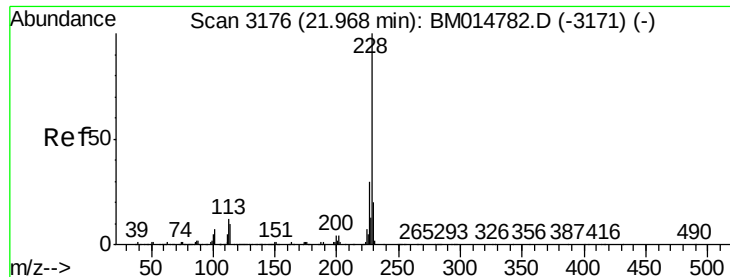


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 20.660 ng/ul

RT: 21.96 min Scan# 3175

Delta R.T. -0.01 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

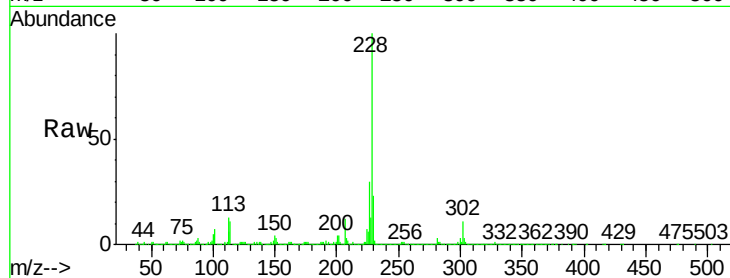
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:228 Resp: 2022961

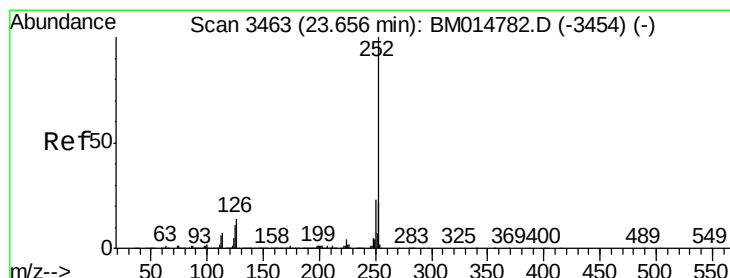
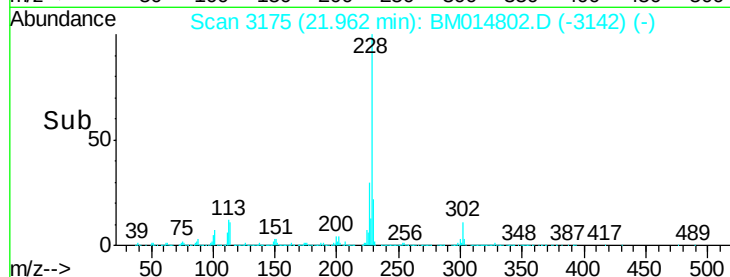
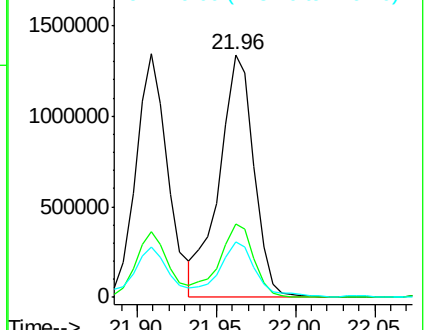
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.3  | 23.4  | 35.2  |
| 229 | 22.7  | 15.5  | 23.3  |



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



#85

Benzo(b)fluoranthene

Concen: 34.942 ng/ul

RT: 23.66 min Scan# 3464

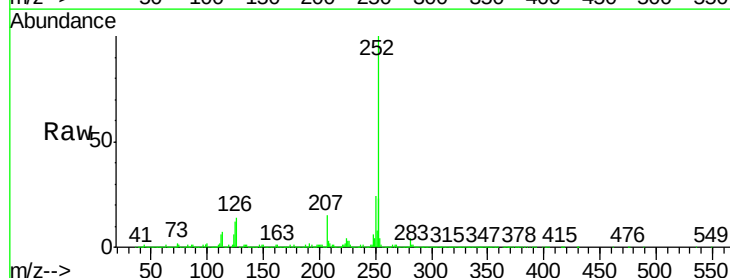
Delta R.T. 0.01 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

Tgt Ion:252 Resp: 3907743

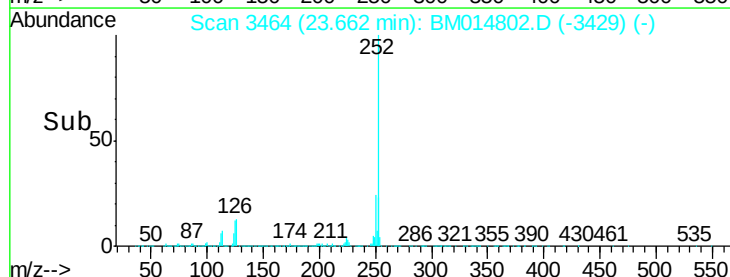
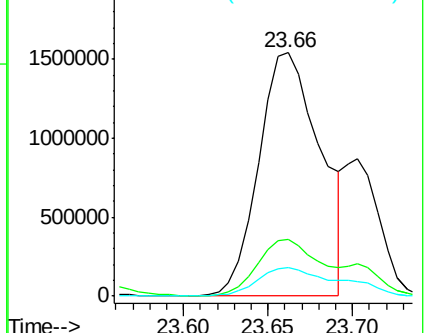
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.3  | 17.9  | 26.9  |
| 125 | 11.7  | 3.6   | 5.4   |

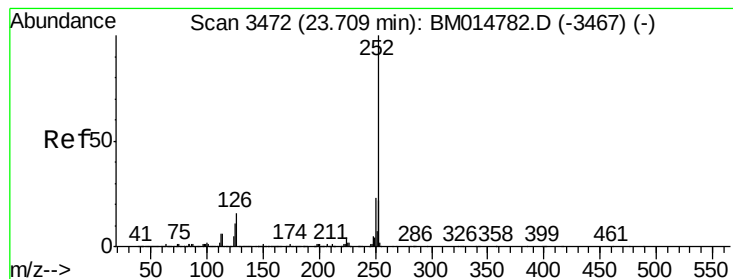


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#86

Benzo(k)fluoranthene

Concen: 36.337 ng/ul

RT: 23.66 min Scan# 3464

Delta R.T. -0.05 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

Instrument :

BNA\_M

ClientSampleId :

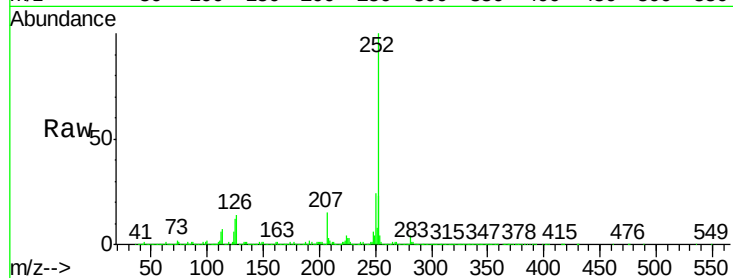
Tot Ion:252 Resp: 3907743

Ion Ratio Lower Upper

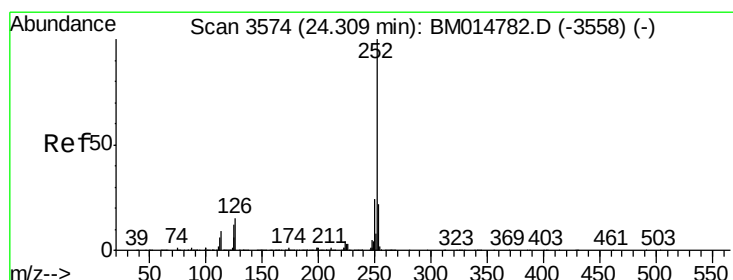
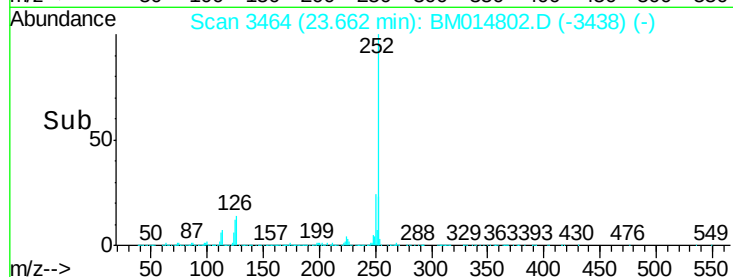
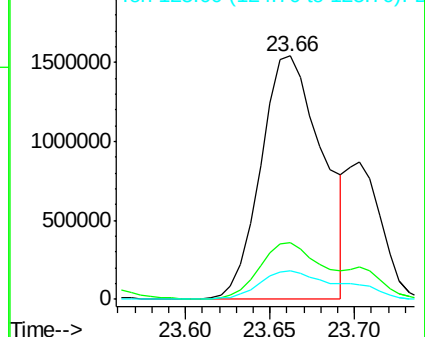
252 100

253 23.3 17.1 25.7

125 11.7 3.4 5.2#



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



#88

Benzo(a)pyrene

Concen: 27.868 ng/ul

RT: 24.31 min Scan# 3574

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

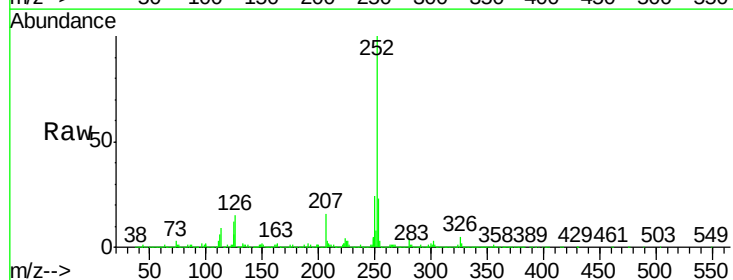
Tgt Ion:252 Resp: 2956372

Ion Ratio Lower Upper

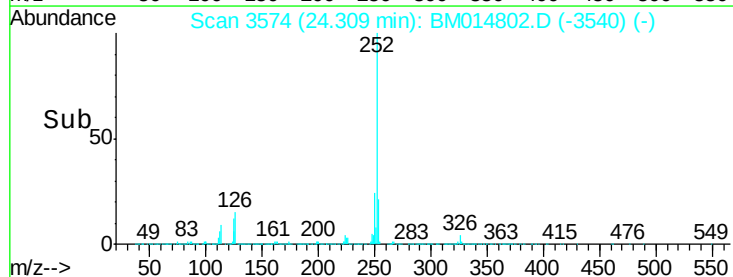
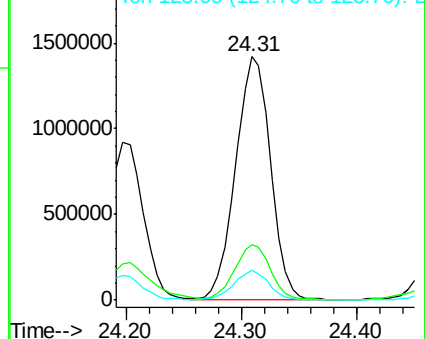
252 100

253 22.7 18.2 27.2

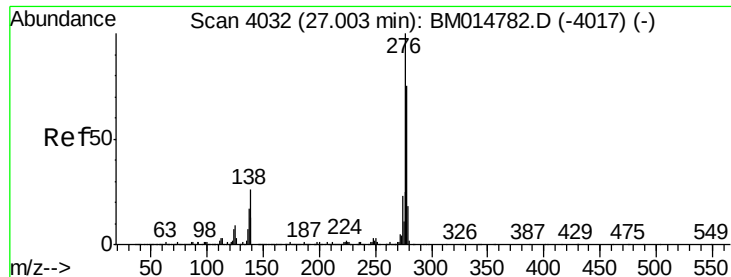
125 12.2 4.0 6.0#



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





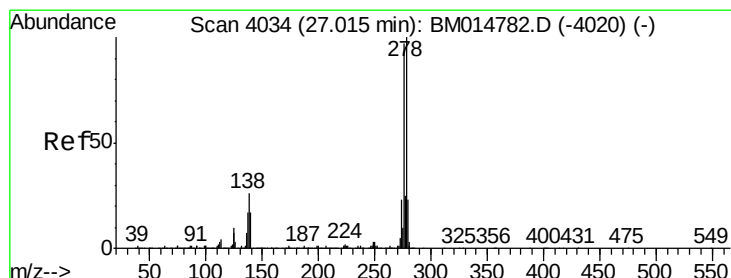
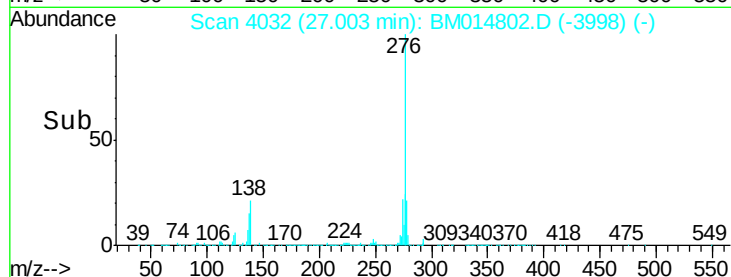
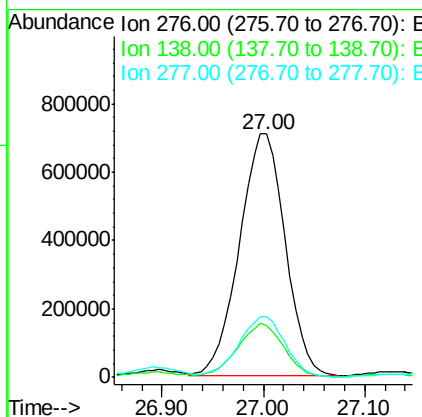
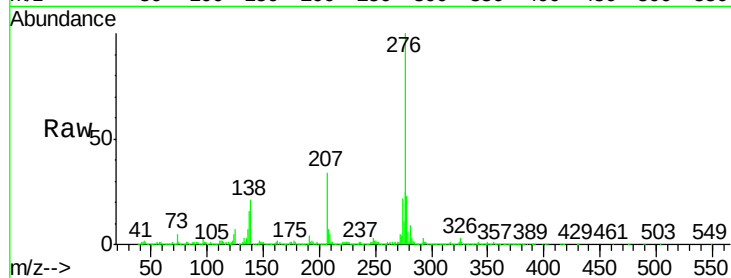


#89

Indeno(1,2,3-cd)pyrene  
Concen: 17.267 ng/ul  
RT: 27.00 min Scan# 4032  
Delta R.T. -0.00 min  
Lab File: BM014802.D  
Acq: 24 Apr 2018 06:52

Instrument :  
BNA\_M  
ClientSampleId :

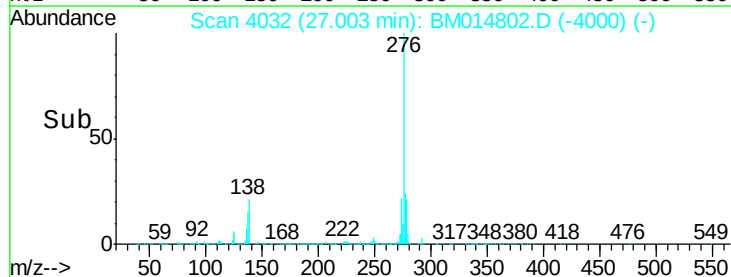
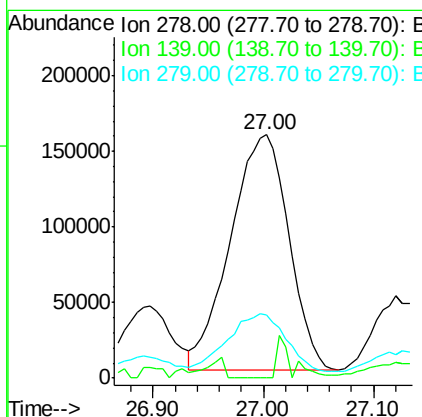
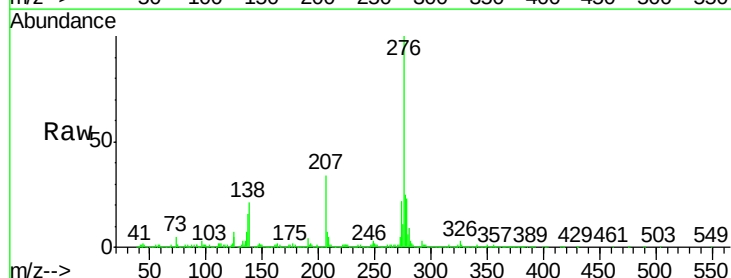
Tot Ion:276 Resp: 2216066  
Ion Ratio Lower Upper  
276 100  
138 21.4 9.3 13.9#  
277 24.9 19.9 29.9

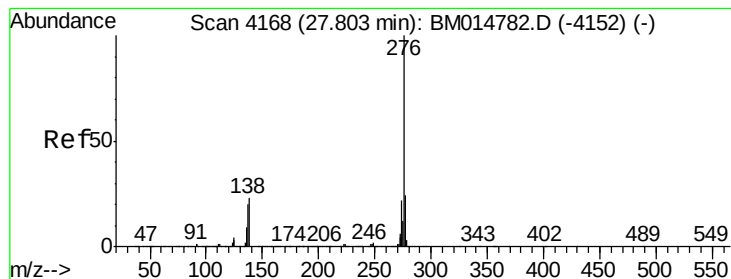


#90

Dibenzo(a,h)anthracene  
Concen: 5.328 ng/ul  
RT: 27.00 min Scan# 4032  
Delta R.T. -0.01 min  
Lab File: BM014802.D  
Acq: 24 Apr 2018 06:52

Tgt Ion:278 Resp: 575690  
Ion Ratio Lower Upper  
278 100  
139 0.0 5.8 8.8#  
279 25.7 18.6 27.8





#91

Benzo(a,h,i)perylene

Concen: 21.571 ng/ul

RT: 27.80 min Scan# 4168

Delta R.T. -0.00 min

Lab File: BM014802.D

Acq: 24 Apr 2018 06:52

Instrument :

BNA\_M

ClientSampleId :

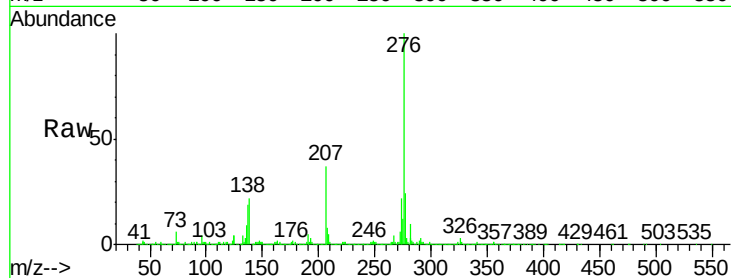
Tot Ion:276 Resp: 2277539

Ion Ratio Lower Upper

276 100

138 22.4 8.5 12.7#

277 23.9 18.6 28.0



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

