

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042518\  
 Data File : BM014845.D  
 Acq On : 25 Apr 2018 21:59  
 Operator : SJ/JU  
 Sample : J2431-12DL2 20X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Apr 26 02:04:01 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 26 01:59:14 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.50  | 152  | 306168   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.35 | 136  | 1256096  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 15.10 | 164  | 654607   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.82 | 188  | 1366036  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.91 | 240  | 1422626  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 24.39 | 264  | 1545731  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |      |
|--------------------------------|-------|-----|-------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.65  | 96  | 1270  | 0.18 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.62  | 99  | 22487 | 0.95 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.80  | 67  | 16786 | 1.11 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 8.02  | 132 | 18794 | 0.95 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.20  | 113 | 17660 | 0.94 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.68  | 128 | 8405  | 0.93 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.42 | 143 | 7326  | 0.81 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.95 | 165 | 15899 | 0.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.47 | 131 | 19164 | 1.06 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.49 | 166 | 49443 | 0.97 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.80 | 160 | 54435 | 0.86 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.26 | 143 | 5548  | 0.59 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 16.08 | 176 | 46597 | 1.05 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.18 | 200 | 2661  | 0.36 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.92 | 188 | 65671 | 1.03 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.16 | 212 | 72050 | 1.07 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.23 | 264 | 79513 | 1.05 | ng/ul | 0.00 |

## Target Compounds

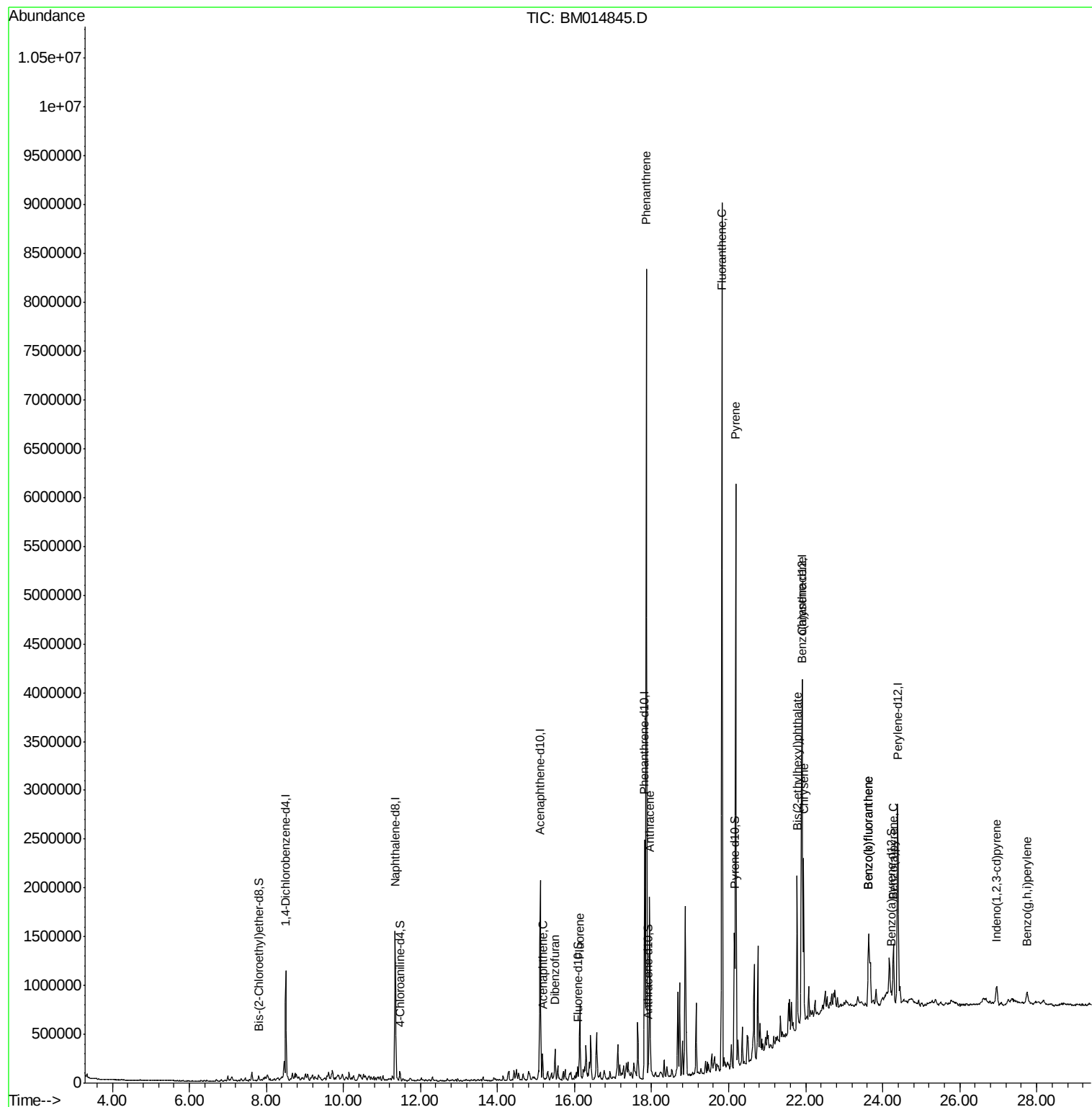
|                                |       |     |         |        | Ovalue |    |
|--------------------------------|-------|-----|---------|--------|--------|----|
| 49) Acenaphthene               | 15.17 | 153 | 88242   | 2.031  | ng/ul  | 96 |
| 53) Dibenzofuran               | 15.50 | 168 | 143664  | 2.381  | ng/ul  | 99 |
| 58) Fluorene                   | 16.14 | 166 | 327739  | 6.728  | ng/ul  | 98 |
| 69) Phenanthrene               | 17.86 | 178 | 4816656 | 65.656 | ng/ul  | 99 |
| 71) Anthracene                 | 17.95 | 178 | 1096631 | 14.729 | ng/ul  | 99 |
| 74) Fluoranthene               | 19.83 | 202 | 5132401 | 64.168 | ng/ul# | 83 |
| 77) Pyrene                     | 20.19 | 202 | 3475379 | 41.811 | ng/ul# | 79 |
| 80) Benzo(a)anthracene         | 21.89 | 228 | 1169914 | 14.063 | ng/ul  | 98 |
| 81) Bis(2-ethylhexyl)phthalate | 21.77 | 149 | 474325  | 9.529  | ng/ul# | 94 |
| 82) Chrysene                   | 21.94 | 228 | 931705  | 11.963 | ng/ul  | 98 |
| 85) Benzo(b)fluoranthene       | 23.63 | 252 | 750030  | 8.231  | ng/ul# | 95 |
| 86) Benzo(k)fluoranthene       | 23.63 | 252 | 750030  | 8.560  | ng/ul# | 93 |
| 88) Benzo(a)pyrene             | 24.28 | 252 | 460032  | 5.322  | ng/ul# | 95 |
| 89) Indeno(1,2,3-cd)pyrene     | 26.95 | 276 | 175898  | 1.682  | ng/ul# | 89 |
| 91) Benzo(g,h,i)perylene       | 27.75 | 276 | 142175  | 1.653  | ng/ul# | 88 |

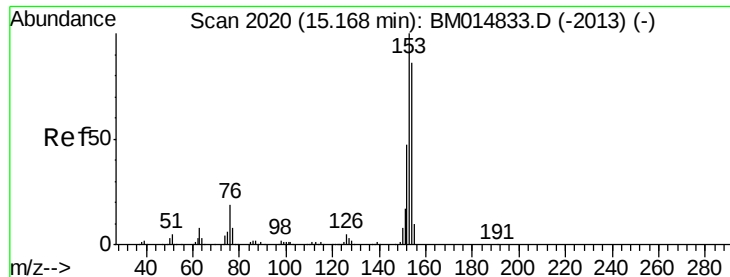
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#49

Acenaphthene

Concen: 2.031 ng/ul

RT: 15.17 min Scan# 2020

Delta R.T. -0.00 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

Instrument :

BNA\_M

ClientSampleId :

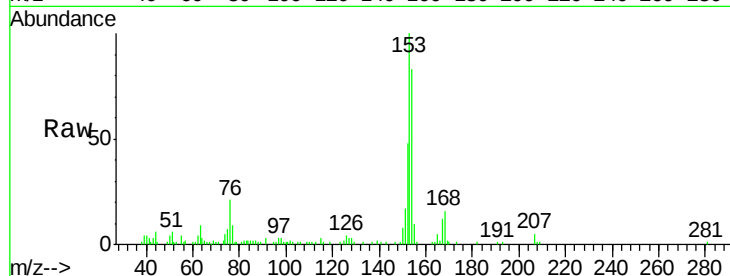
Tot Ion:153 Resp: 88242

Ion Ratio Lower Upper

153 100

152 48.3 37.6 56.4

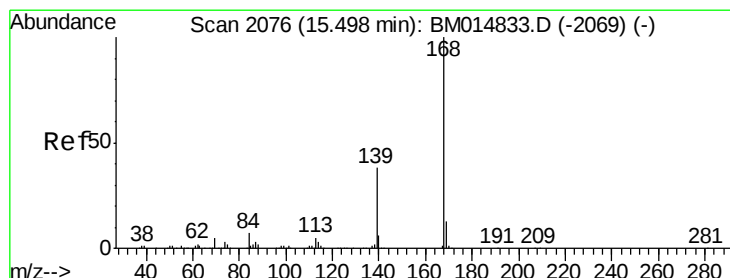
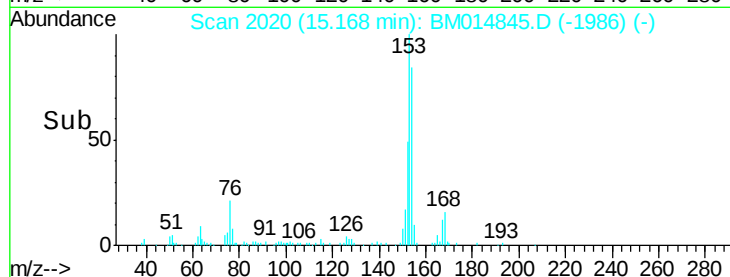
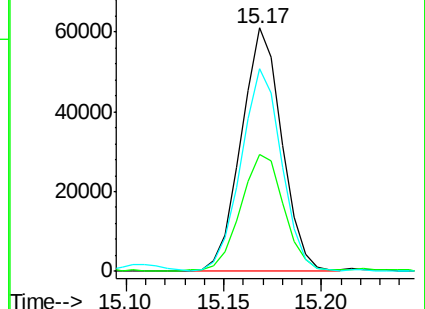
154 83.4 70.4 105.6



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



#53

Dibenzofuran

Concen: 2.381 ng/ul

RT: 15.50 min Scan# 2076

Delta R.T. -0.00 min

Lab File: BM014845.D

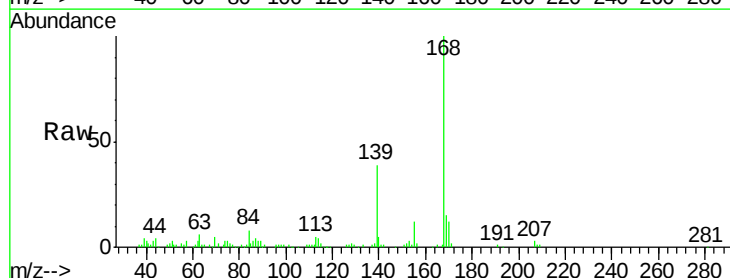
Acq: 25 Apr 2018 21:59

Tgt Ion:168 Resp: 143664

Ion Ratio Lower Upper

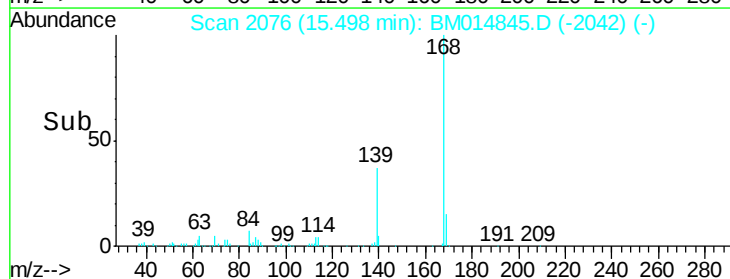
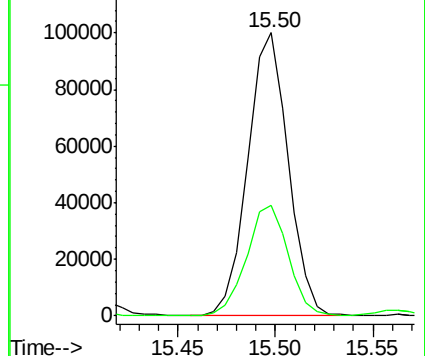
168 100

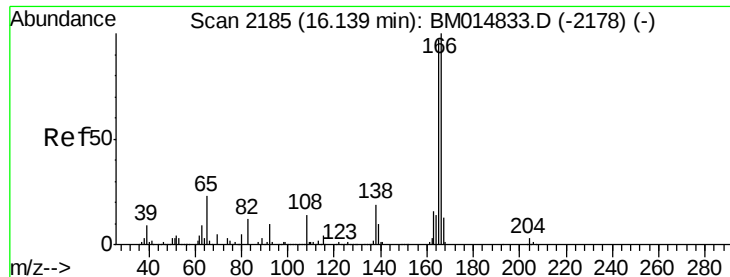
139 39.0 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 6.728 ng/ul

RT: 16.14 min Scan# 2185

Delta R.T. -0.00 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

Instrument :

BNA\_M

ClientSampleId :

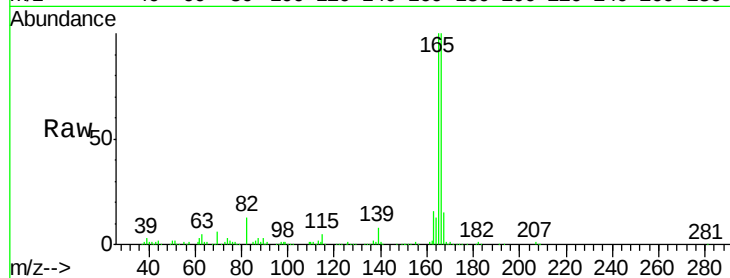
Tot Ion:166 Resp: 327739

Ion Ratio Lower Upper

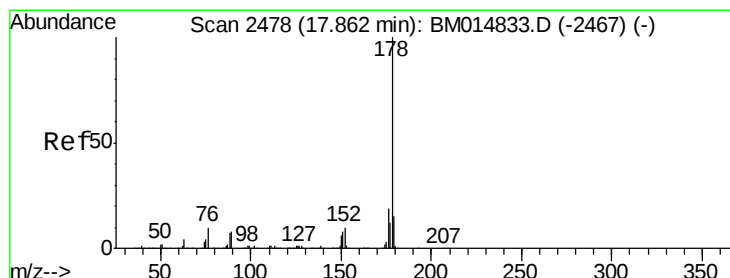
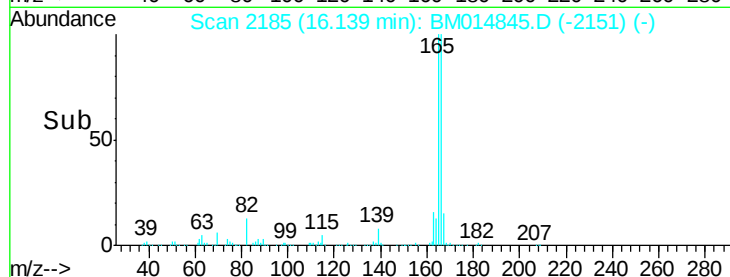
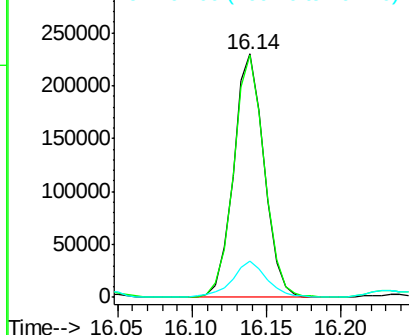
166 100

165 99.6 77.9 116.9

167 14.7 10.6 16.0



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: 65.656 ng/ul

RT: 17.86 min Scan# 2478

Delta R.T. -0.00 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

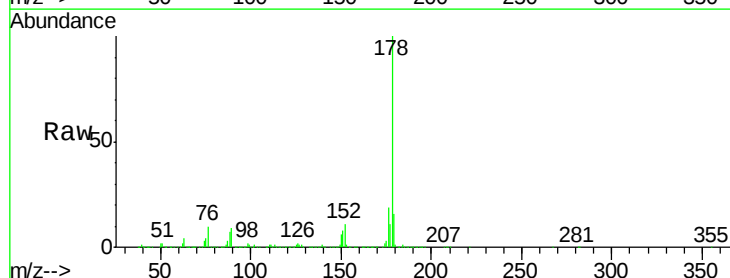
Tgt Ion:178 Resp: 4816656

Ion Ratio Lower Upper

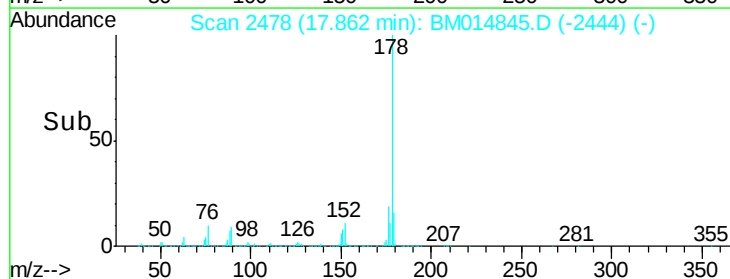
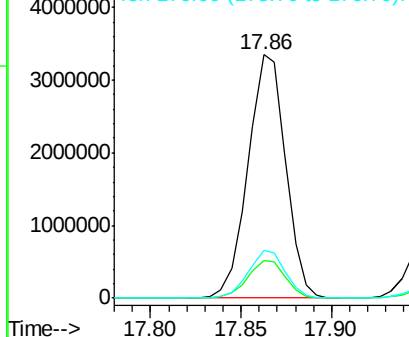
178 100

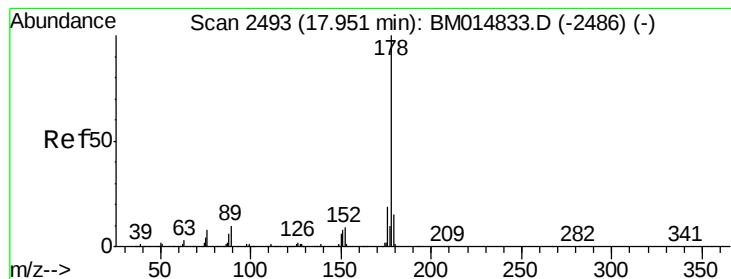
179 15.6 12.6 19.0

176 19.5 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: 14.729 ng/ul

RT: 17.95 min Scan# 2493

Delta R.T. -0.00 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

Instrument :

BNA\_M

ClientSampleId :

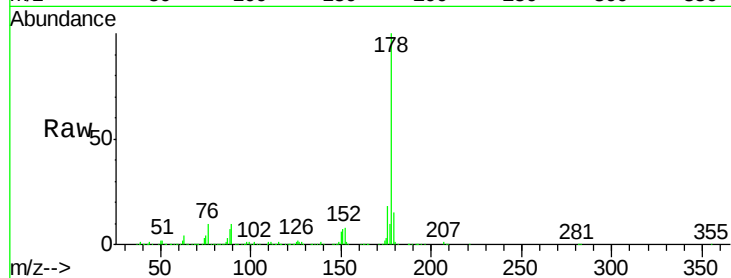
Tot Ion:178 Resp: 1096631

Ion Ratio Lower Upper

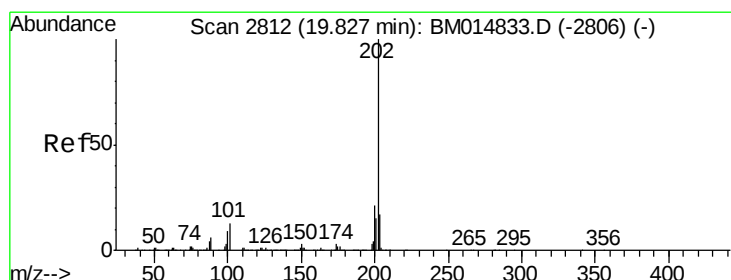
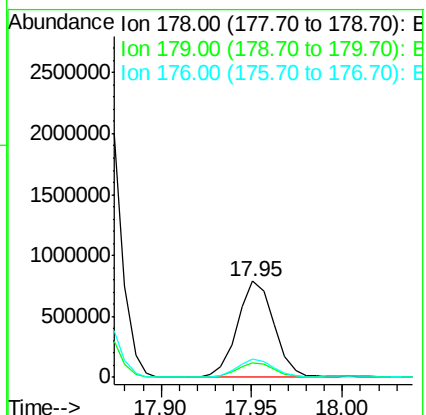
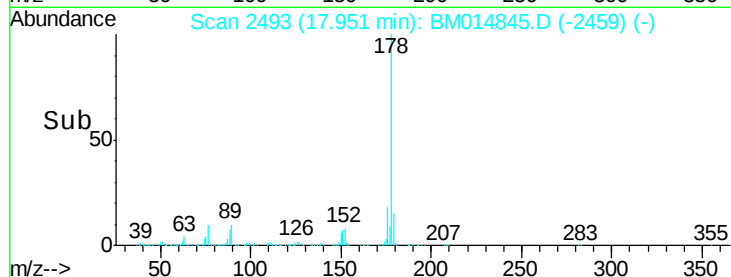
178 100

179 15.2 11.7 17.5

176 18.5 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



#74

Fluoranthene

Concen: 64.168 ng/ul

RT: 19.83 min Scan# 2813

Delta R.T. 0.01 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

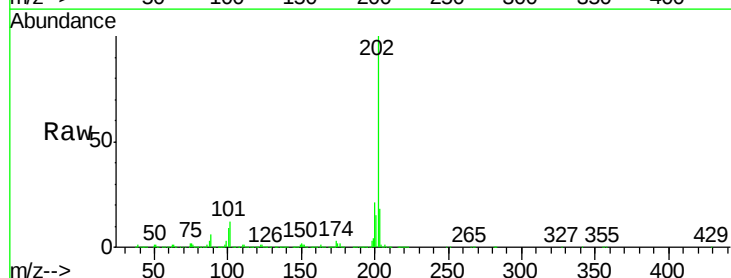
Tgt Ion:202 Resp: 5132401

Ion Ratio Lower Upper

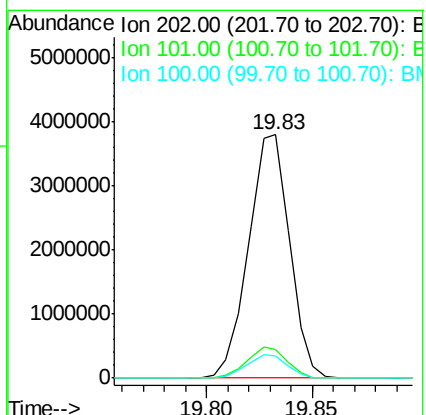
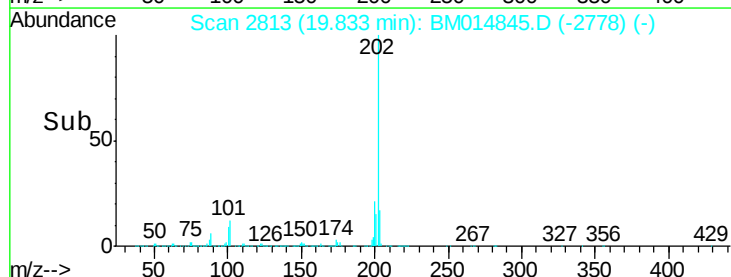
202 100

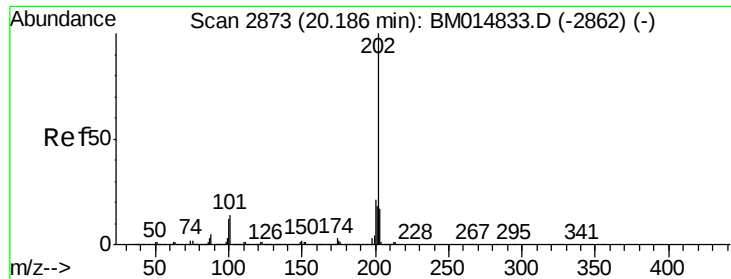
101 11.9 4.6 7.0#

100 9.2 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: 41.811 ng/ul

RT: 20.19 min Scan# 2873

Delta R.T. -0.00 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

Instrument :

BNA\_M

ClientSampleId :

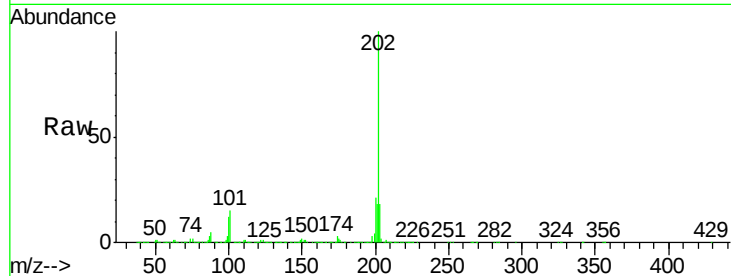
Tot Ion:202 Resp: 3475379

Ion Ratio Lower Upper

202 100

101 14.8 5.1 7.7#

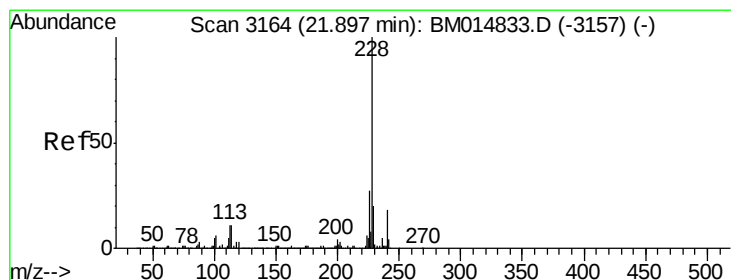
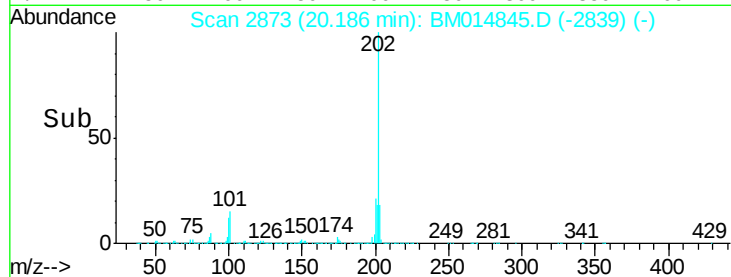
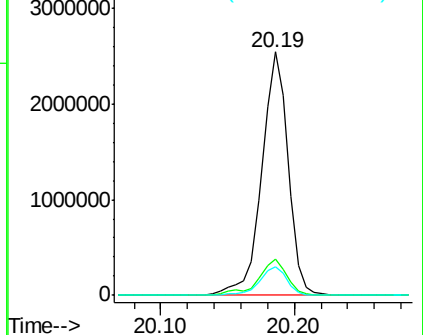
100 11.9 4.9 7.3#



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): B



#80

Benzo(a)anthracene

Concen: 14.063 ng/ul

RT: 21.89 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

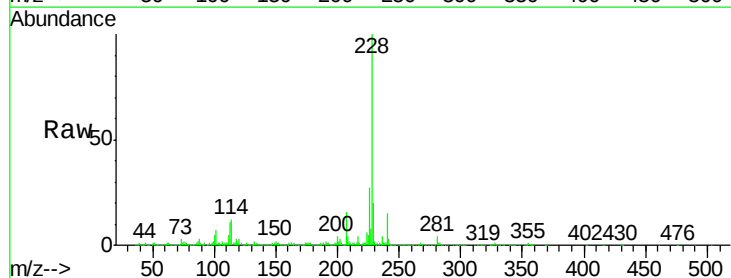
Tgt Ion:228 Resp: 1169914

Ion Ratio Lower Upper

228 100

229 20.4 15.4 23.0

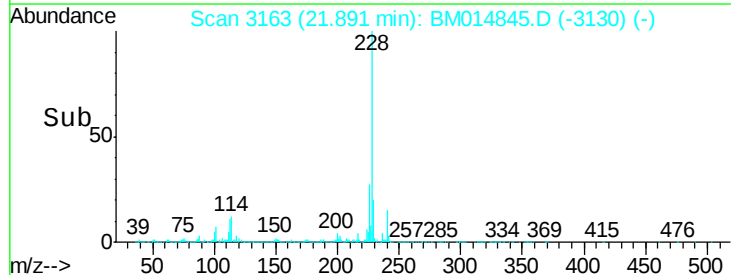
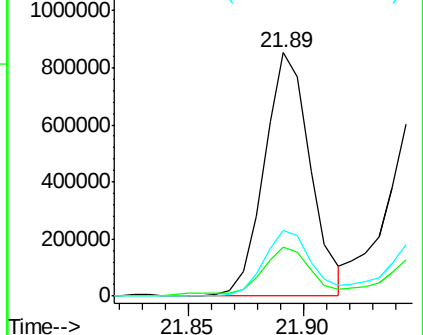
226 27.1 21.4 32.0

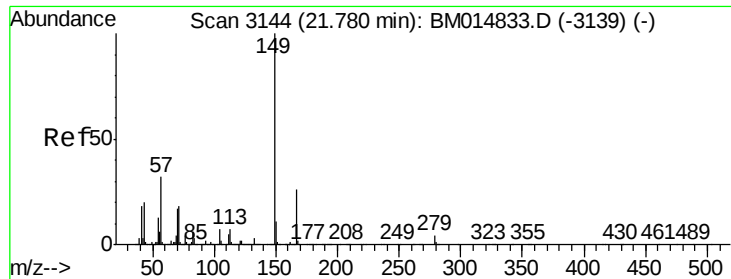


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

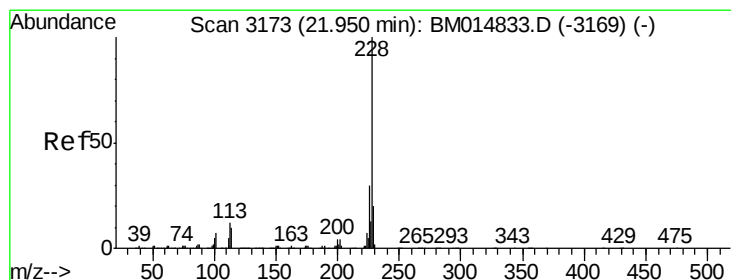
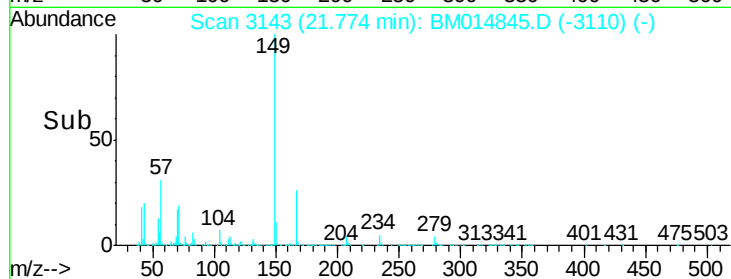
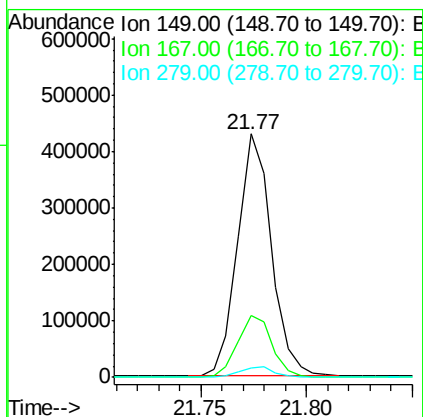
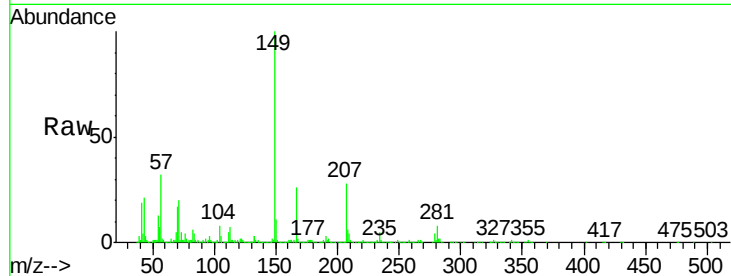




#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 9.529 ng/ul  
 RT: 21.77 min Scan# 3143  
 Delta R.T. -0.01 min  
 Lab File: BM014845.D  
 Acq: 25 Apr 2018 21:59

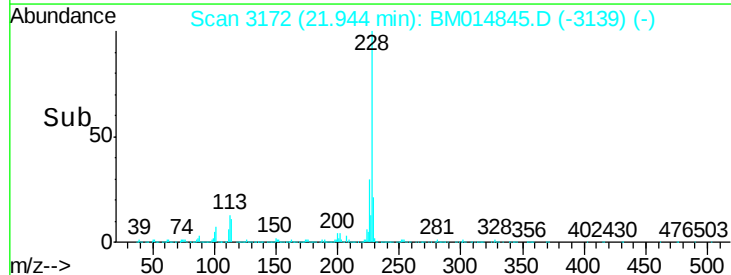
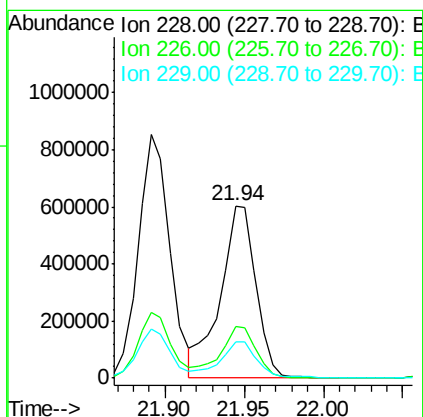
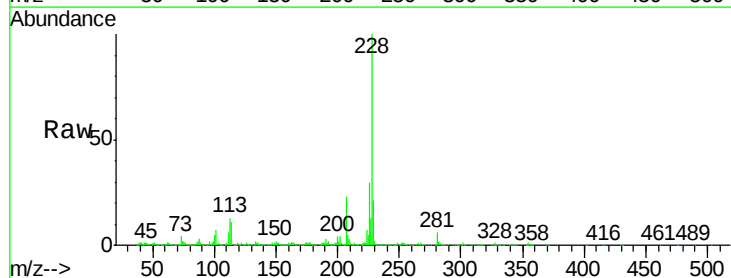
Instrument :  
 BNA\_M  
 ClientSampleId :

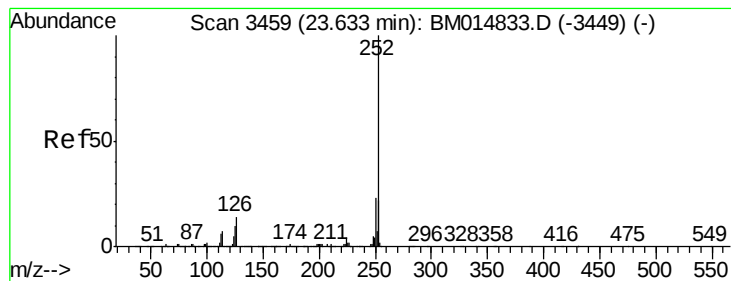
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.6  | 22.8  | 34.2  |
| 279     | 4.1   | 4.9   | 7.3   |



#82  
 Chrysene  
 Concen: 11.963 ng/ul  
 RT: 21.94 min Scan# 3172  
 Delta R.T. -0.01 min  
 Lab File: BM014845.D  
 Acq: 25 Apr 2018 21:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 23.4  | 35.2  |
| 229     | 21.1  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 8.231 ng/u1

RT: 23.63 min Scan# 3459

Delta R.T. -0.00 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

Instrument :

BNA\_M

ClientSampleId :

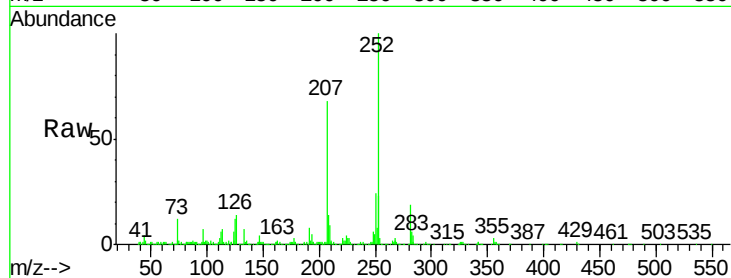
Tot Ion:252 Resp: 750030

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

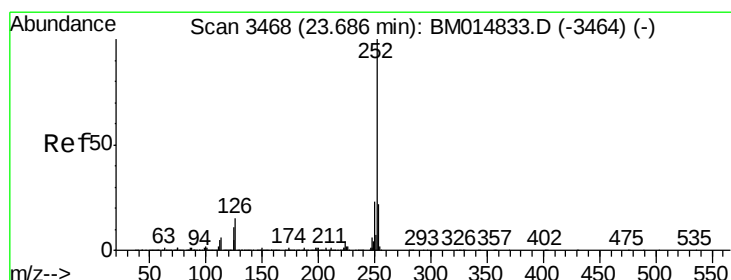
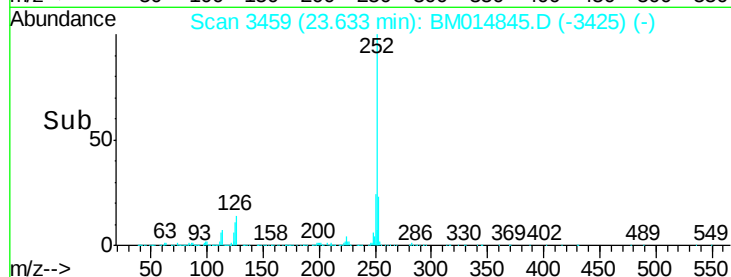
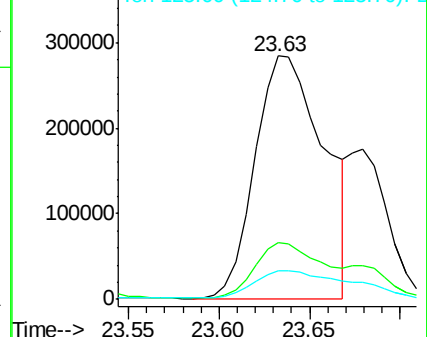
125 11.9 3.6 5.4#



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: 8.560 ng/u1

RT: 23.63 min Scan# 3459

Delta R.T. -0.05 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

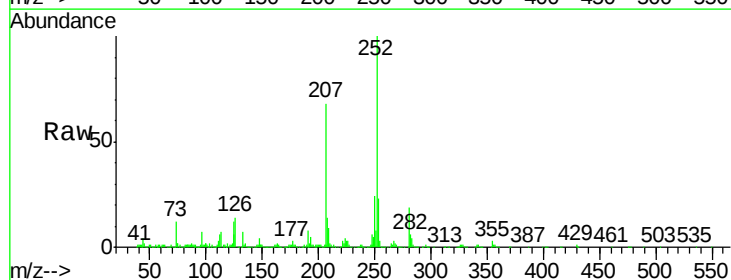
Tgt Ion:252 Resp: 750030

Ion Ratio Lower Upper

252 100

253 23.2 17.1 25.7

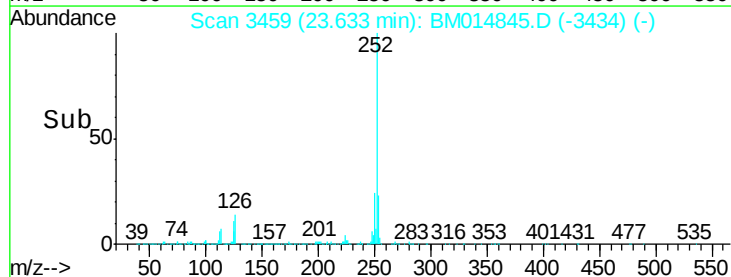
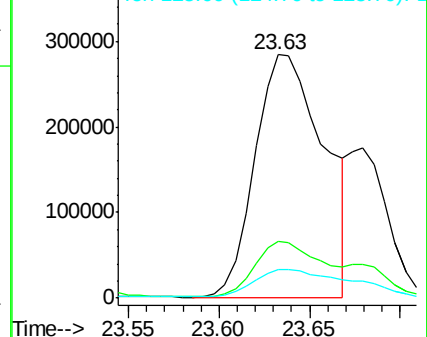
125 11.9 3.4 5.2#

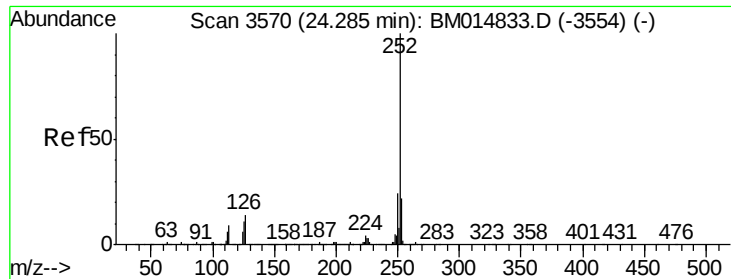


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 5.322 ng/ul

RT: 24.28 min Scan# 3569

Delta R.T. -0.01 min

Lab File: BM014845.D

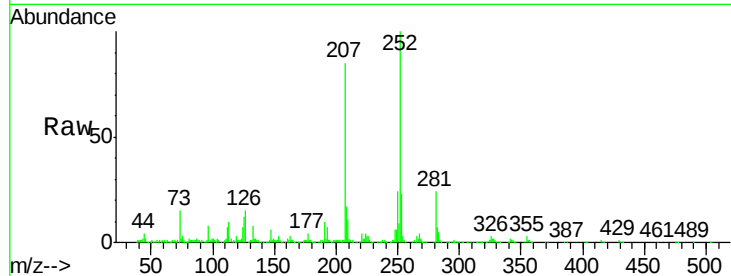
Acq: 25 Apr 2018 21:59

Instrument :

BNA\_M

ClientSampleId :

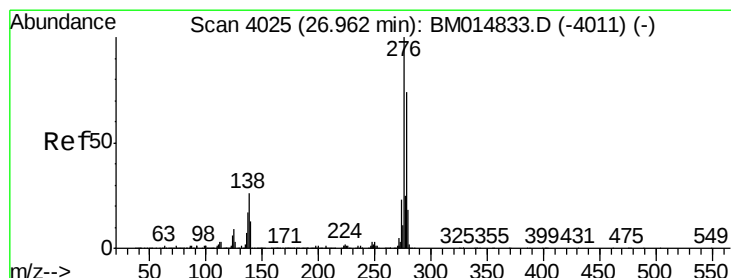
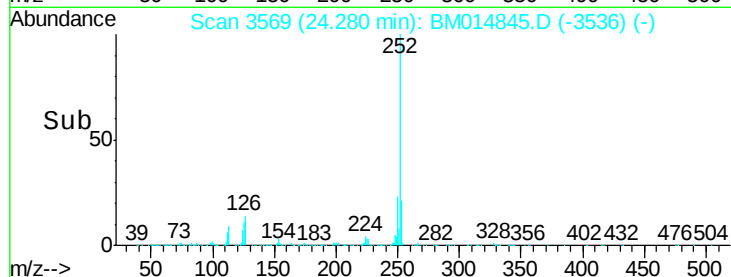
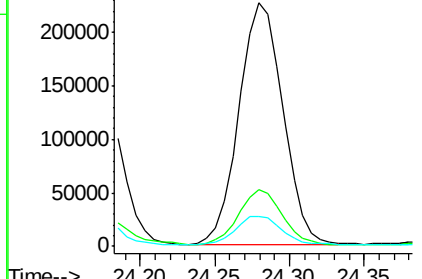
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 460032 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 18.2  | 27.2   |
| 125       | 12.4  | 4.0   | 6.0#   |



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: 1.682 ng/ul

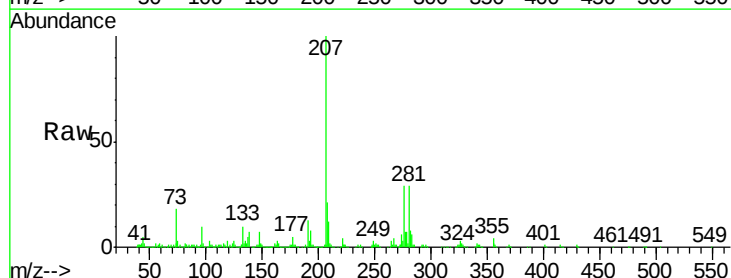
RT: 26.95 min Scan# 4023

Delta R.T. -0.01 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

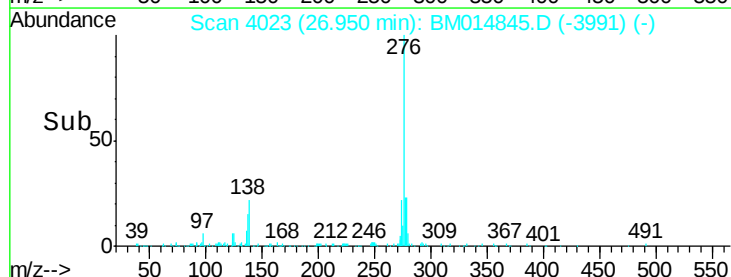
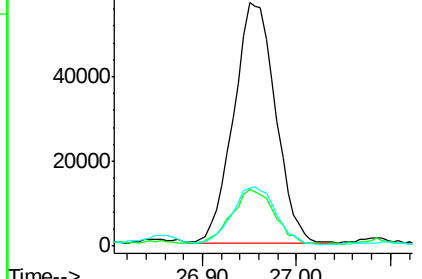
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 175898 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 23.2  | 9.3   | 13.9#  |
| 277       | 23.7  | 19.9  | 29.9   |

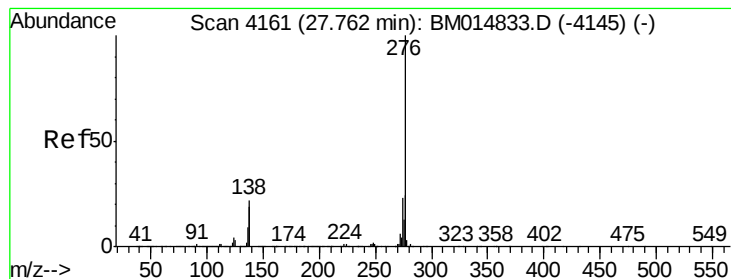


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#91

Benzo(a,h,i)perylene

Concen: 1.653 ng/ul

RT: 27.75 min Scan# 4159

Delta R.T. -0.01 min

Lab File: BM014845.D

Acq: 25 Apr 2018 21:59

Instrument :

BNA\_M

ClientSampleId :

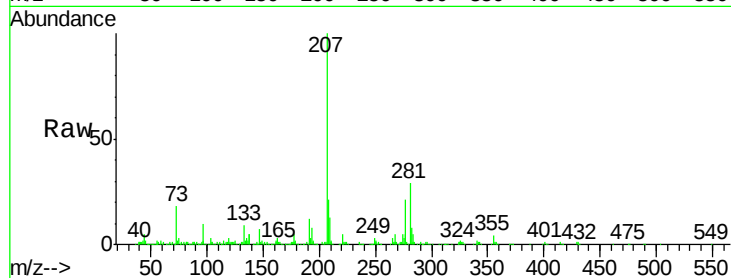
Tot Ion:276 Resp: 142175

Ion Ratio Lower Upper

276 100

138 23.9 8.5 12.7#

277 22.4 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

