

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
 Data File : BM013986.D  
 Acq On : 30 Jan 2018 08:04  
 Operator : SJ/JU  
 Sample : J1243-09DL 10X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Jan 30 09:49:27 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 30 07:49:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.57  | 152  | 103206   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.34 | 136  | 414503   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 249274   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.97 | 188  | 586981   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.18 | 240  | 717730   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.36 | 264  | 708652   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.12  | 96  | 128    | 0.05  | ng/uL | -0.01 |
| 5) Phenol-d5                   | 6.78  | 99  | 3322   | 0.42  | ng/ul | 0.02  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 4641   | 0.97  | ng/ul | 0.02  |
| 9) 2-Chlorophenol-d4           | 7.12  | 132 | 7557   | 1.17  | ng/ul | 0.01  |
| 13) 4-Methylphenol-d8          | 8.32  | 113 | 4850   | 0.80  | ng/ul | 0.04  |
| 19) Nitrobenzene-d5            | 8.80  | 128 | 119    | 0.04  | ng/ul | 0.08  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 2344   | 0.69  | ng/ul | 0.01  |
| 26) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 5672   | 0.86  | ng/ul | 0.05  |
| 29) 4-Chloroaniline-d4         | 10.52 | 131 | 3130   | 0.55  | ng/ul | 0.02  |
| 43) Dimethylphthalate-d6       | 13.64 | 166 | 35792  | 1.74  | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 41265  | 1.57  | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 626    | 0.19  | ng/ul | 0.08  |
| 57) Fluorene-d10               | 15.22 | 176 | 33026  | 1.83  | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 1559   | 0.44  | ng/ul | 0.03  |
| 70) Anthracene-d10             | 16.97 | 188 | 586981 | 20.53 | ng/ul | -0.10 |
| 76) Pyrene-d10                 | 19.37 | 212 | 61332  | 1.84  | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.23 | 264 | 59351  | 1.82  | ng/ul | 0.00  |

## Target Compounds

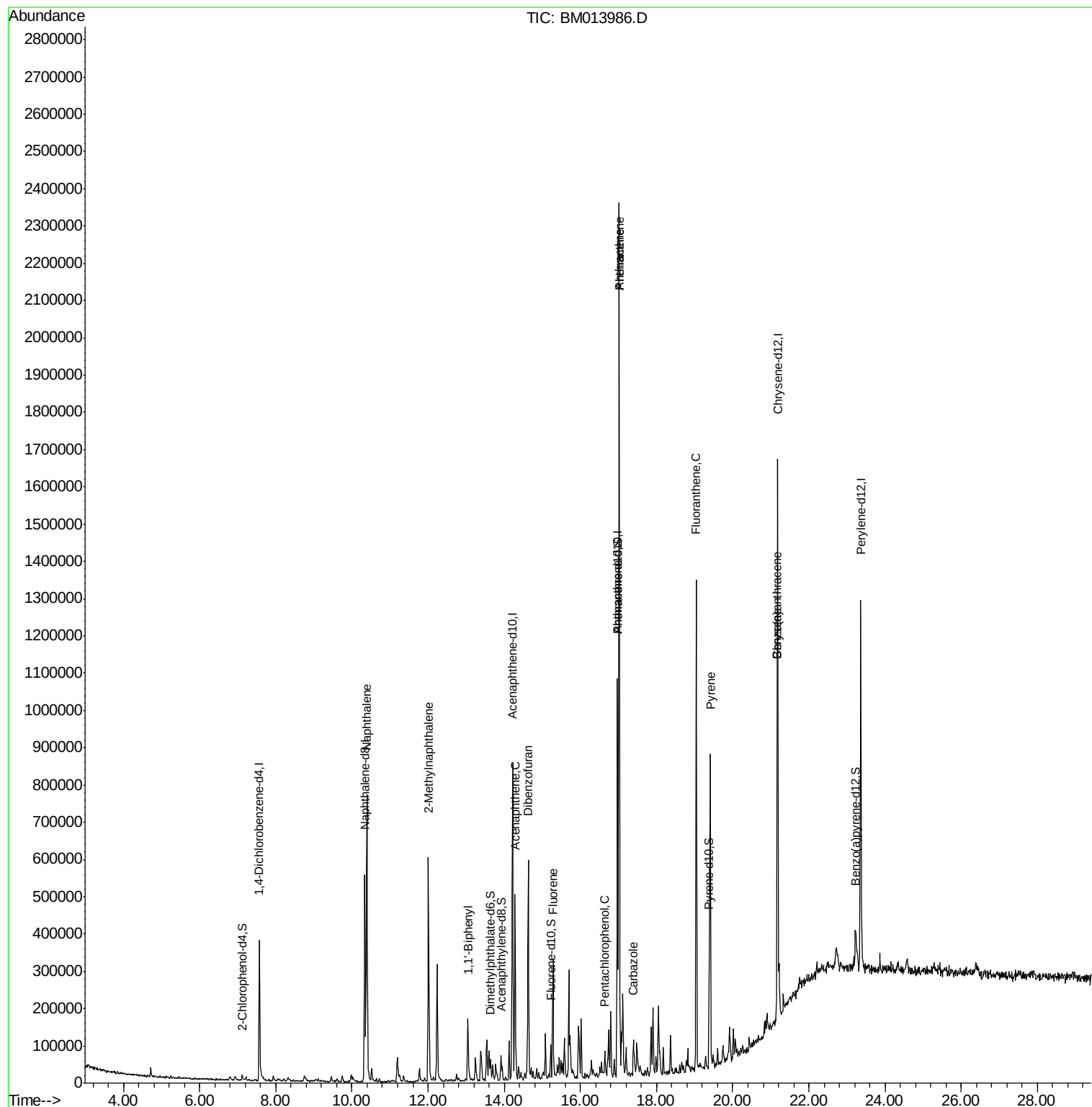
|                         |       |     |         |        | Ovalue    |
|-------------------------|-------|-----|---------|--------|-----------|
| 28) Naphthalene         | 10.39 | 128 | 597128  | 28.957 | ng/ul 99  |
| 34) 2-Methylnaphthalene | 12.01 | 142 | 271242  | 17.642 | ng/ul 99  |
| 40) 1,1'-Biphenyl       | 13.05 | 154 | 62847   | 3.029  | ng/ul 99  |
| 49) Acenaphthene        | 14.29 | 153 | 188902  | 11.379 | ng/ul 99  |
| 53) Dibenzofuran        | 14.63 | 168 | 349731  | 14.003 | ng/ul 97  |
| 58) Fluorene            | 15.28 | 166 | 140718  | 6.878  | ng/ul 98  |
| 68) Pentachlorophenol   | 16.64 | 266 | 7197    | 1.815  | ng/ul# 87 |
| 69) Phenanthrene        | 17.02 | 178 | 1377770 | 42.227 | ng/ul 99  |
| 71) Anthracene          | 17.02 | 178 | 1377770 | 40.939 | ng/ul 100 |
| 72) Carbazole           | 17.40 | 167 | 55723   | 2.006  | ng/ul 96  |
| 74) Fluoranthene        | 19.04 | 202 | 771167  | 19.800 | ng/ul# 97 |
| 77) Pyrene              | 19.41 | 202 | 503666  | 11.543 | ng/ul 97  |
| 80) Benzo(a)anthracene  | 21.16 | 228 | 94918   | 2.189  | ng/ul 93  |
| 82) Chrysene            | 21.16 | 228 | 96506   | 2.426  | ng/ul 97  |

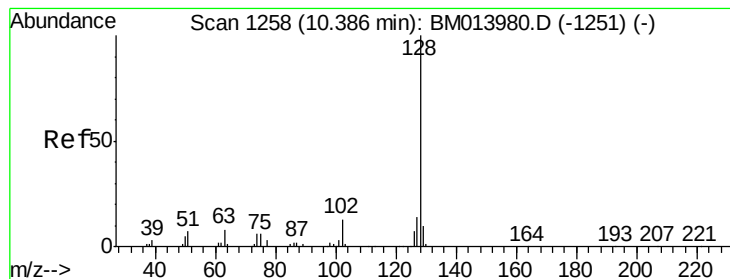
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 30 09:49:27 2018  
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Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jan 30 07:49:34 2018  
Response via : Initial Calibration





#28

Naphthalene

Concen: 28.957 ng/ul

RT: 10.39 min Scan# 1259

Delta R.T. 0.01 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

Instrument :

BNA\_M

ClientSampleId :

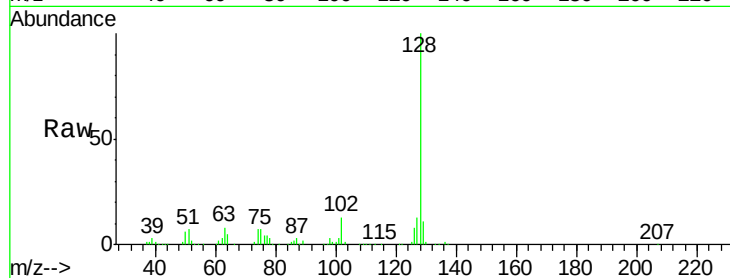
Tot Ion:128 Resp: 597128

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

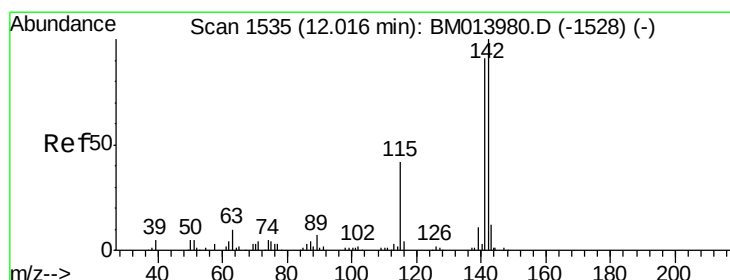
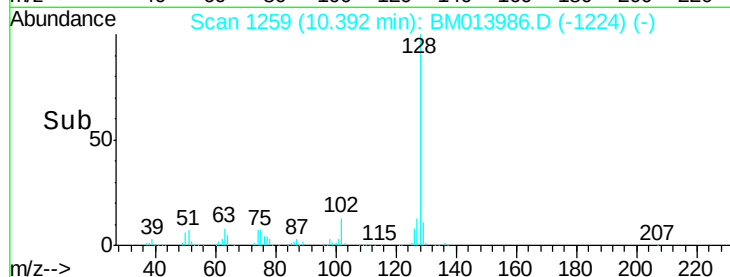
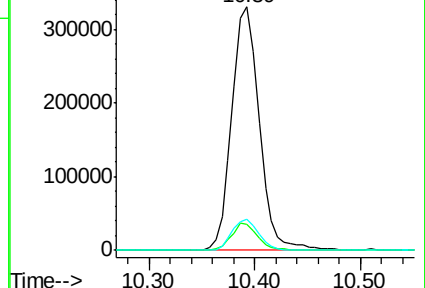
127 13.0 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 17.642 ng/ul

RT: 12.01 min Scan# 1534

Delta R.T. -0.01 min

Lab File: BM013986.D

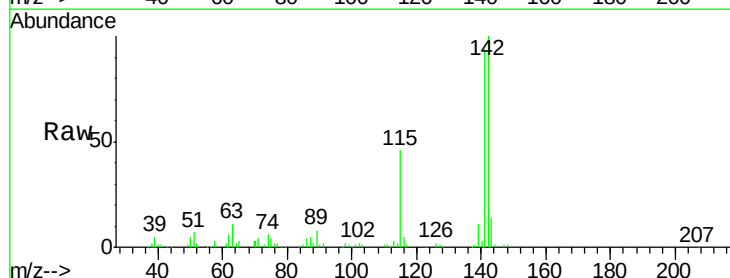
Acq: 30 Jan 2018 08:04

Tgt Ion:142 Resp: 271242

Ion Ratio Lower Upper

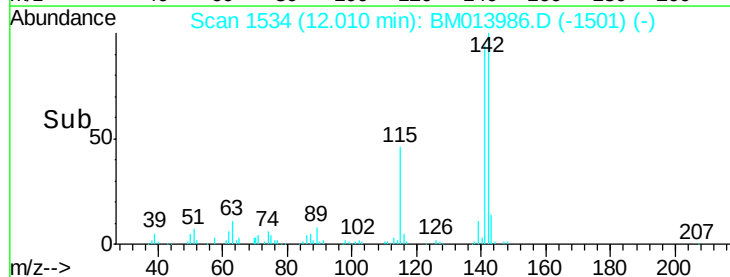
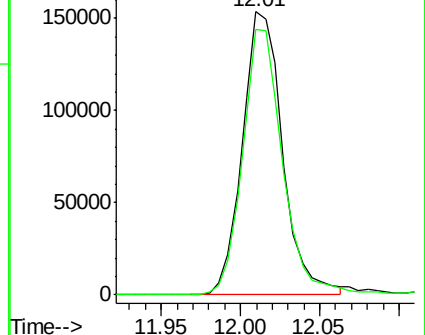
142 100

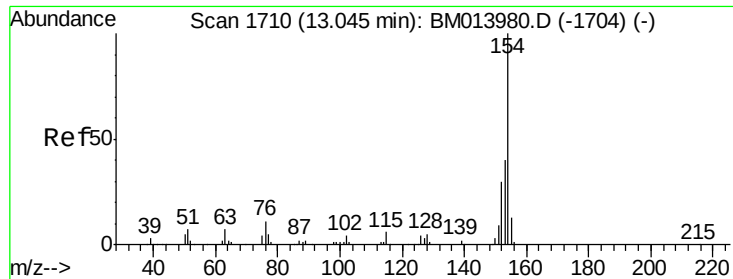
141 93.9 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

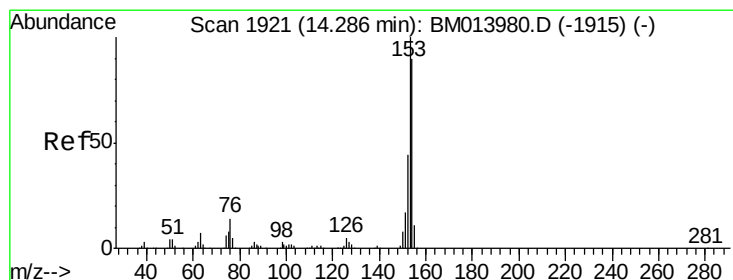
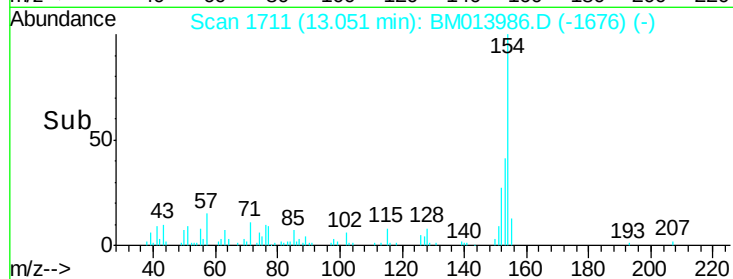
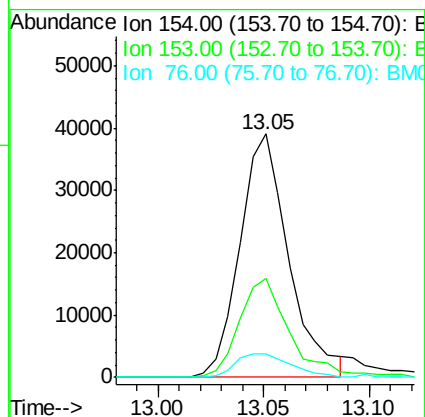
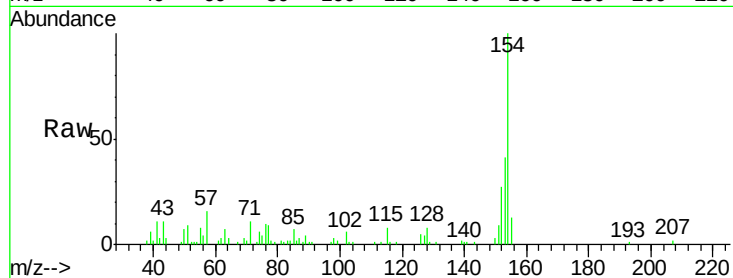




#40  
 1,1'-Biphenyl  
 Concen: 3.029 ng/ul  
 RT: 13.05 min Scan# 1711  
 Delta R.T. 0.01 min  
 Lab File: BM013986.D  
 Acq: 30 Jan 2018 08:04

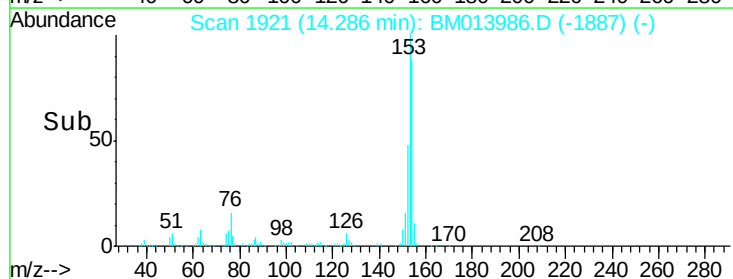
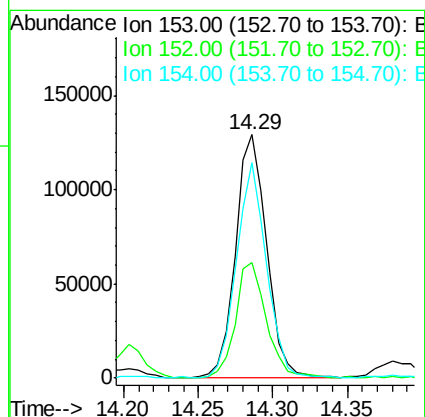
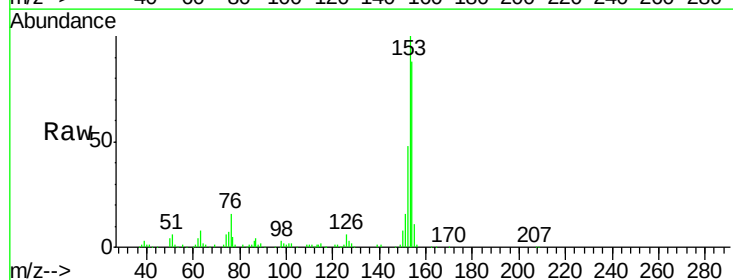
Instrument :  
 BNA\_M  
 ClientSampleId :

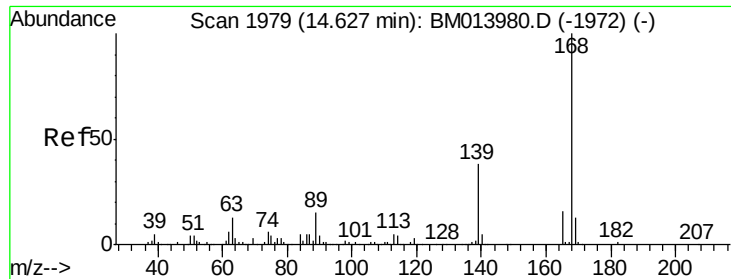
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.8  | 32.6  | 48.8  |
| 76      | 9.7   | 8.5   | 12.7  |



#49  
 Acenaphthene  
 Concen: 11.379 ng/ul  
 RT: 14.29 min Scan# 1921  
 Delta R.T. 0.00 min  
 Lab File: BM013986.D  
 Acq: 30 Jan 2018 08:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.6  | 37.6  | 56.4  |
| 154     | 88.4  | 70.4  | 105.6 |





#53

Dibenzenofuran

Concen: 14.003 ng/ul

RT: 14.63 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

Instrument :

BNA\_M

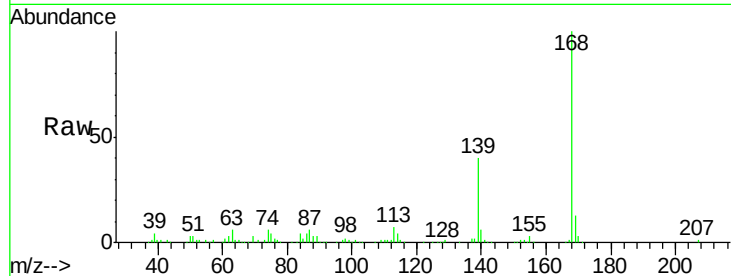
ClientSampled :

Tot Ion:168 Resp: 349731

Ion Ratio Lower Upper

168 100

139 40.1 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

250000

200000

150000

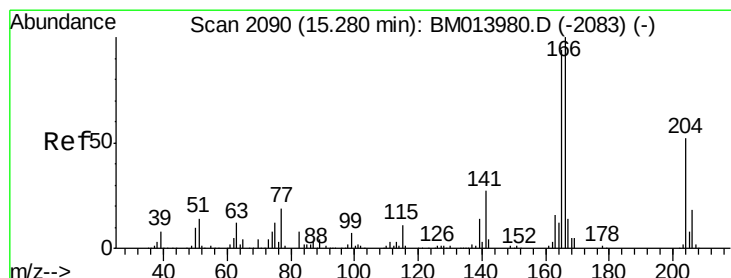
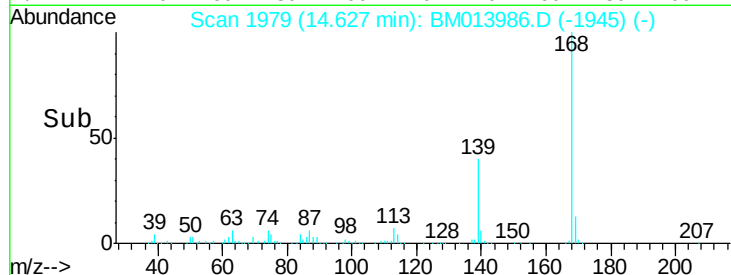
100000

50000

0

14.55 14.60 14.65 14.70

Time-->



#58

Fluorene

Concen: 6.878 ng/ul

RT: 15.28 min Scan# 2090

Delta R.T. 0.00 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

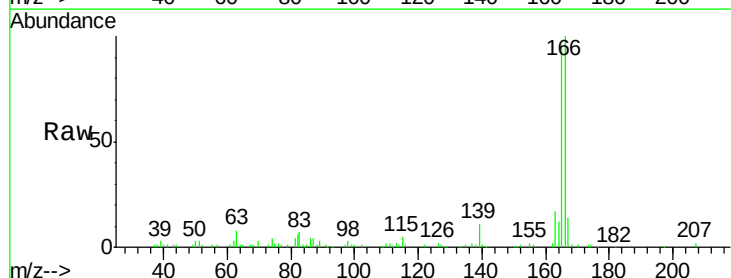
Tgt Ion:166 Resp: 140718

Ion Ratio Lower Upper

166 100

165 95.8 77.9 116.9

167 14.3 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

120000

100000

80000

60000

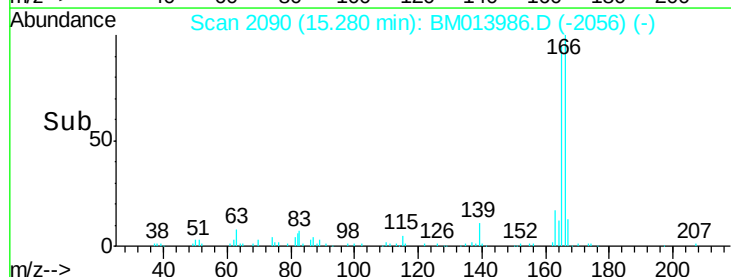
40000

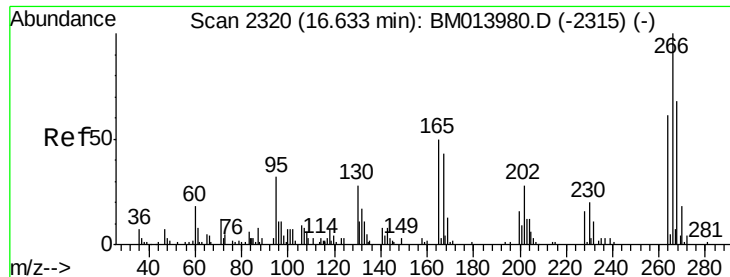
20000

0

15.20 15.25 15.30 15.35

Time-->

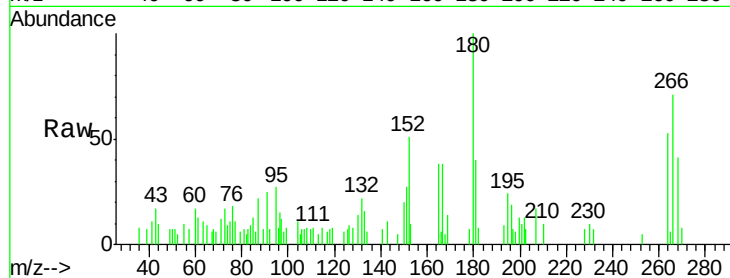




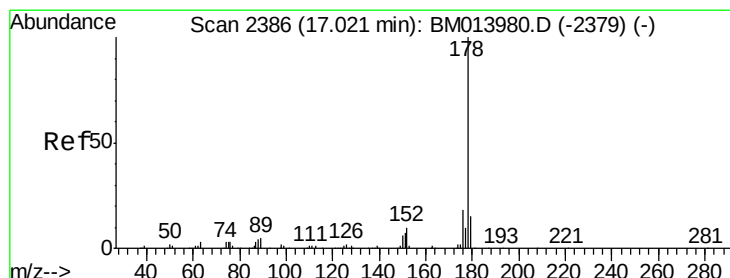
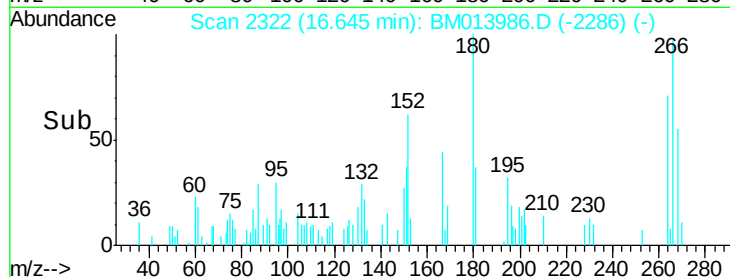
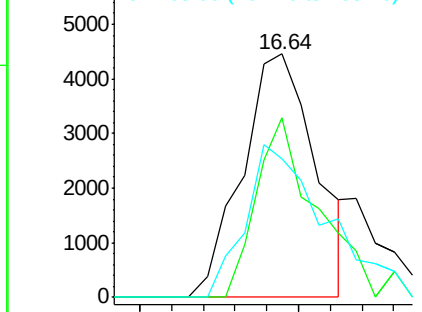
#68  
 Pentachlorophenol  
 Concen: 1.815 ng/ul  
 RT: 16.64 min Scan# 2322  
 Delta R.T. 0.01 min  
 Lab File: BM013986.D  
 Acq: 30 Jan 2018 08:04

Instrument :  
 BNA\_M  
 ClientSampleId :

Tot Ion:266 Resp: 7197  
 Ion Ratio Lower Upper  
 266 100  
 264 74.0 49.3 73.9#  
 268 57.0 52.6 78.8

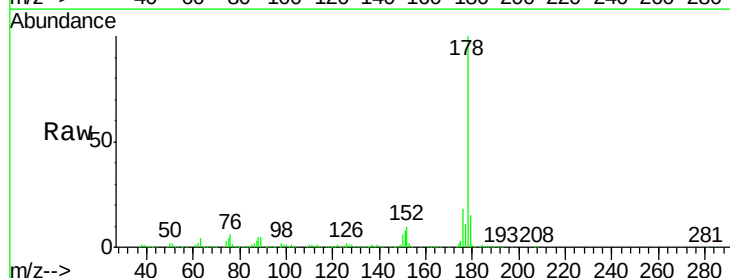


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

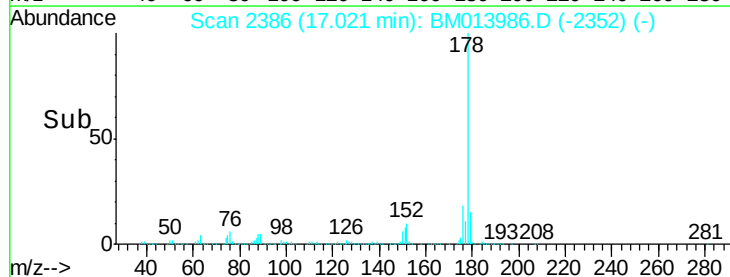
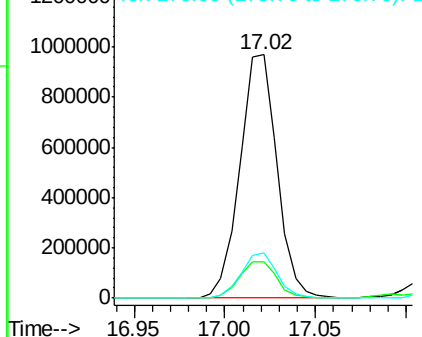


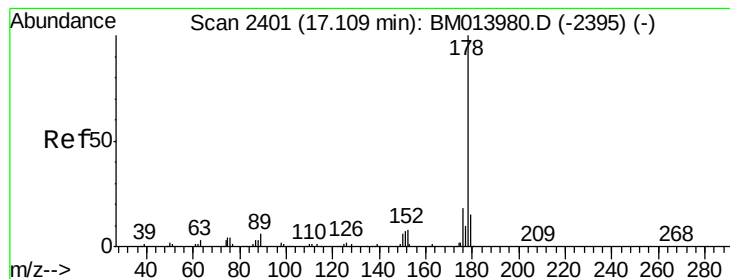
#69  
 Phenanthrene  
 Concen: 42.227 ng/ul  
 RT: 17.02 min Scan# 2386  
 Delta R.T. 0.00 min  
 Lab File: BM013986.D  
 Acq: 30 Jan 2018 08:04

Tgt Ion:178 Resp: 1377770  
 Ion Ratio Lower Upper  
 178 100  
 179 14.7 12.6 19.0  
 176 18.4 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: 40.939 ng/ul

RT: 17.02 min Scan# 2386

Delta R.T. -0.09 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

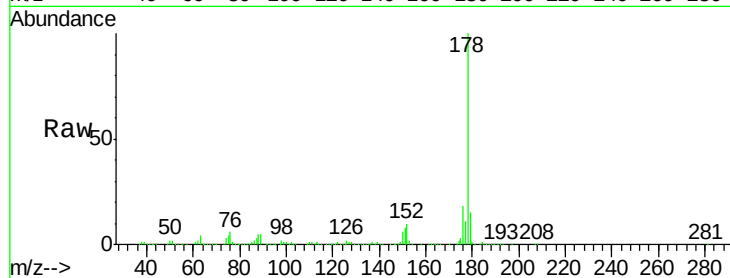
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:178 Resp: 1377770

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 14.7  | 11.7  | 17.5  |
| 176 | 18.4  | 14.6  | 21.8  |

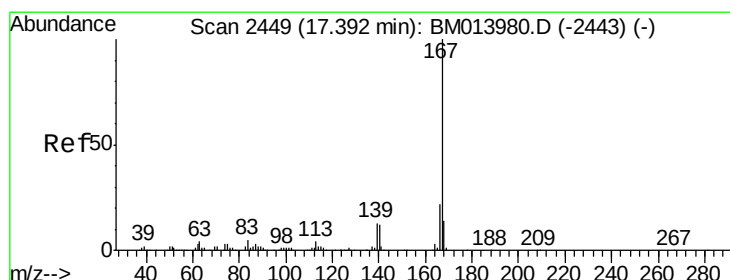
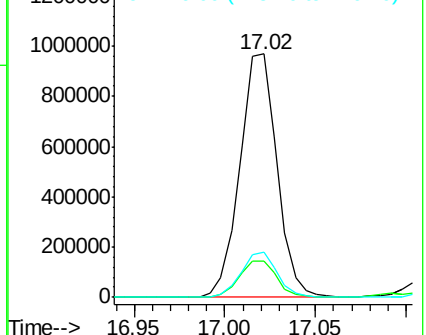
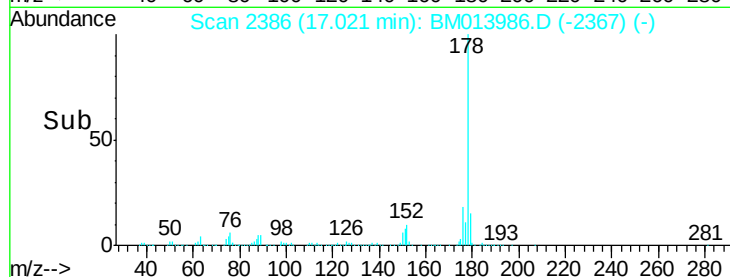


Abundance

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: 2.006 ng/ul

RT: 17.40 min Scan# 2450

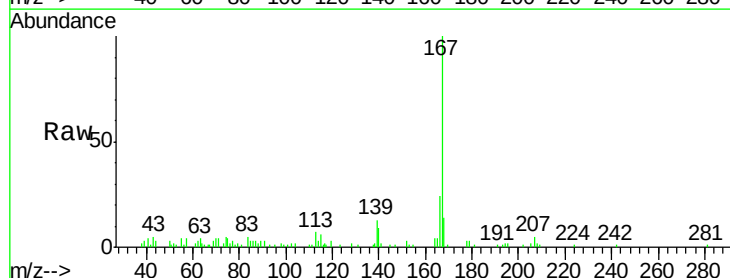
Delta R.T. 0.01 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

Tgt Ion:167 Resp: 55723

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 23.7  | 17.1  | 25.7  |
| 139 | 13.2  | 10.0  | 15.0  |

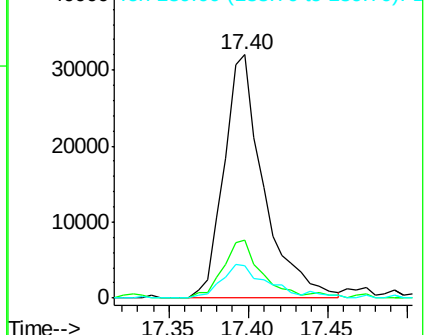
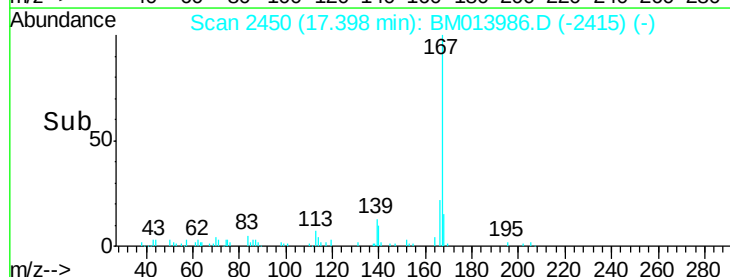


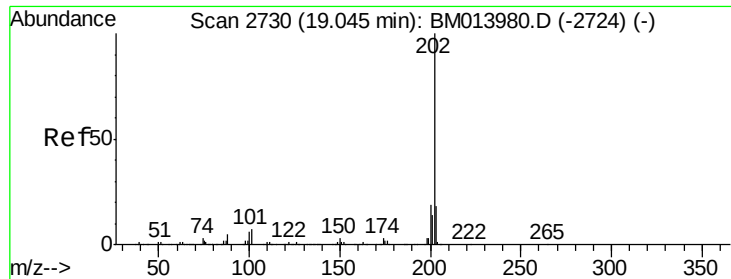
Abundance

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: 19.800 ng/ul

RT: 19.04 min Scan# 2730

Delta R.T. 0.00 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

Instrument :

BNA\_M

ClientSampleId :

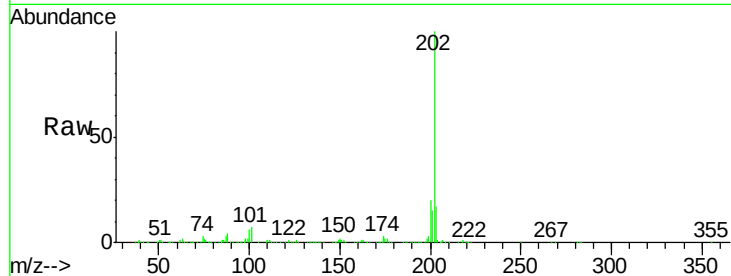
Tot Ion:202 Resp: 771167

Ion Ratio Lower Upper

202 100

101 6.7 4.6 7.0

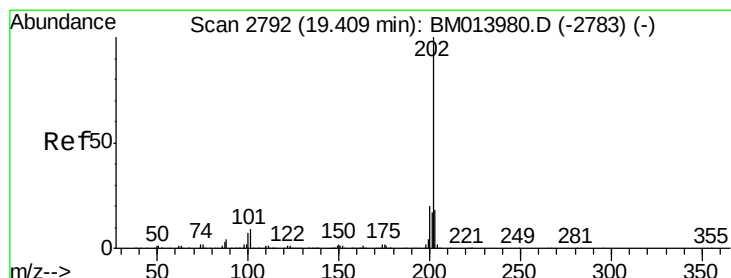
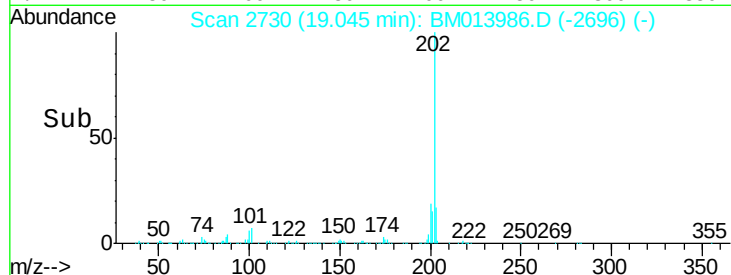
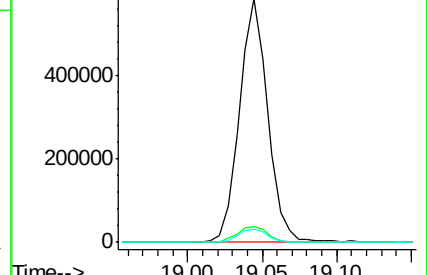
100 5.5 3.4 5.2#



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: 11.543 ng/ul

RT: 19.41 min Scan# 2792

Delta R.T. 0.00 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

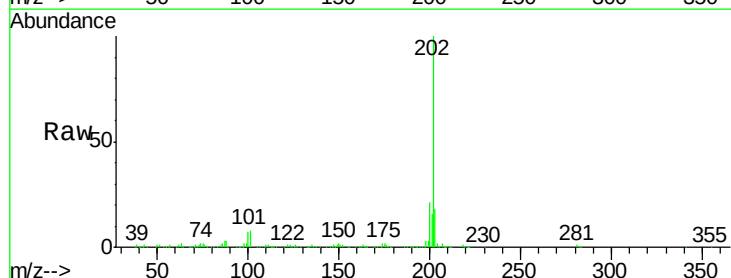
Tgt Ion:202 Resp: 503666

Ion Ratio Lower Upper

202 100

101 7.6 5.1 7.7

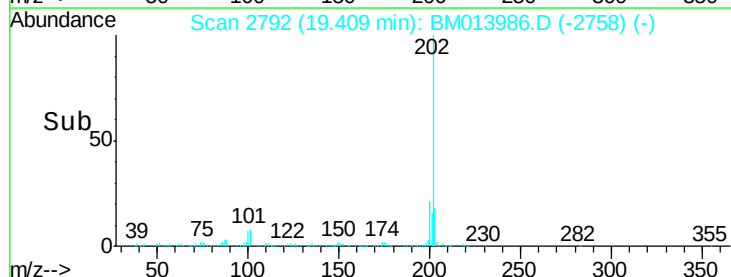
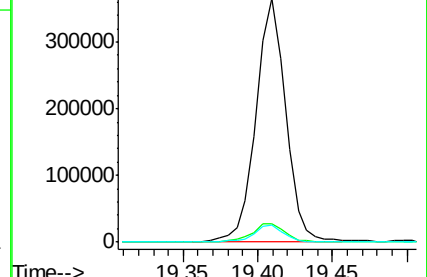
100 6.9 4.9 7.3



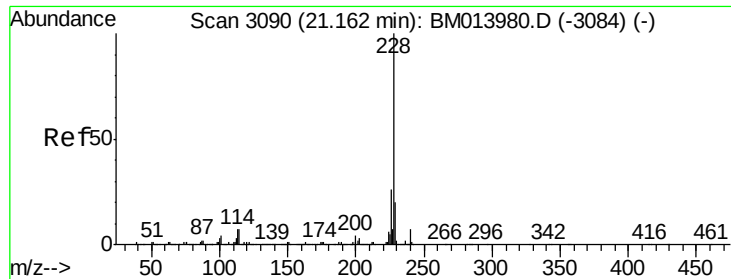
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B







#80

Benzo(a)anthracene

Concen: 2.189 ng/ul

RT: 21.16 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

Instrument :

BNA\_M

ClientSampleId :

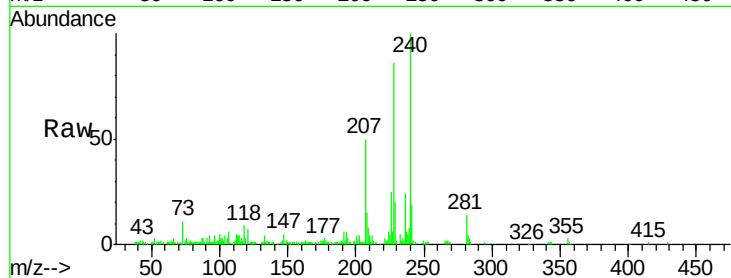
Tot Ion:228 Resp: 94918

Ion Ratio Lower Upper

228 100

229 22.9 15.4 23.0

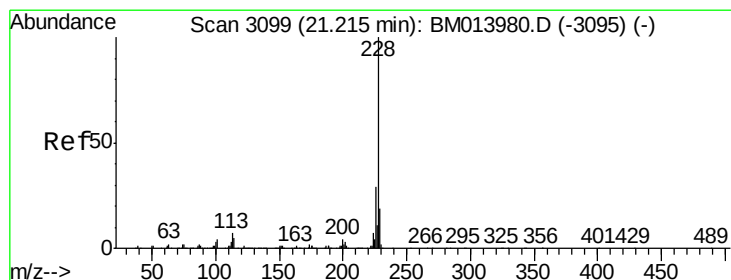
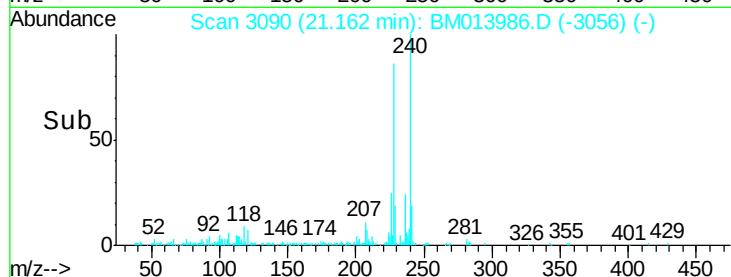
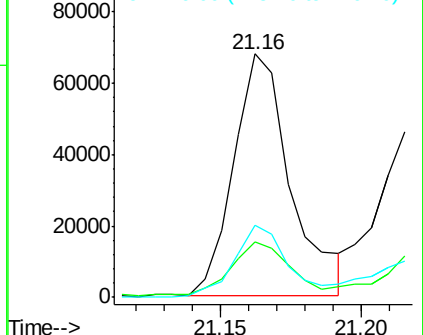
226 29.5 21.4 32.0



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: 2.426 ng/ul

RT: 21.16 min Scan# 3090

Delta R.T. -0.05 min

Lab File: BM013986.D

Acq: 30 Jan 2018 08:04

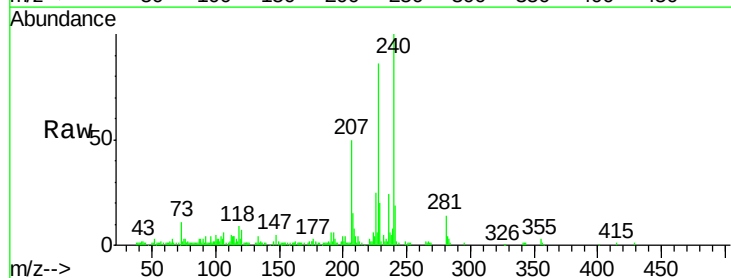
Tgt Ion:228 Resp: 96506

Ion Ratio Lower Upper

228 100

226 29.5 23.4 35.2

229 22.9 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

