

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\  
 Data File : BF097056.D  
 Acq On : 26 Jul 2017 4:43  
 Operator : SJ/JU  
 Sample : I4305-04  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M5-BASE

Quant Time: Jul 26 05:35:17 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.50  | 152  | 125740   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.78  | 136  | 477679   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.53  | 164  | 180575   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.00 | 188  | 272614   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.63 | 240  | 210657   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 14.97 | 264  | 159871   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |      |
|--------------------------|-------|-----|--------|-------|----|------|
| 5) 2-Fluorophenol        | 5.10  | 112 | 698928 | 83.79 | ng | 0.00 |
| 7) Phenol-d6             | 6.16  | 99  | 851255 | 89.40 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.07  | 82  | 472718 | 58.05 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.32 | 330 | 120767 | 84.65 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 8.86  | 172 | 722988 | 67.95 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.59 | 244 | 461836 | 44.70 | ng | 0.00 |

## Target Compounds

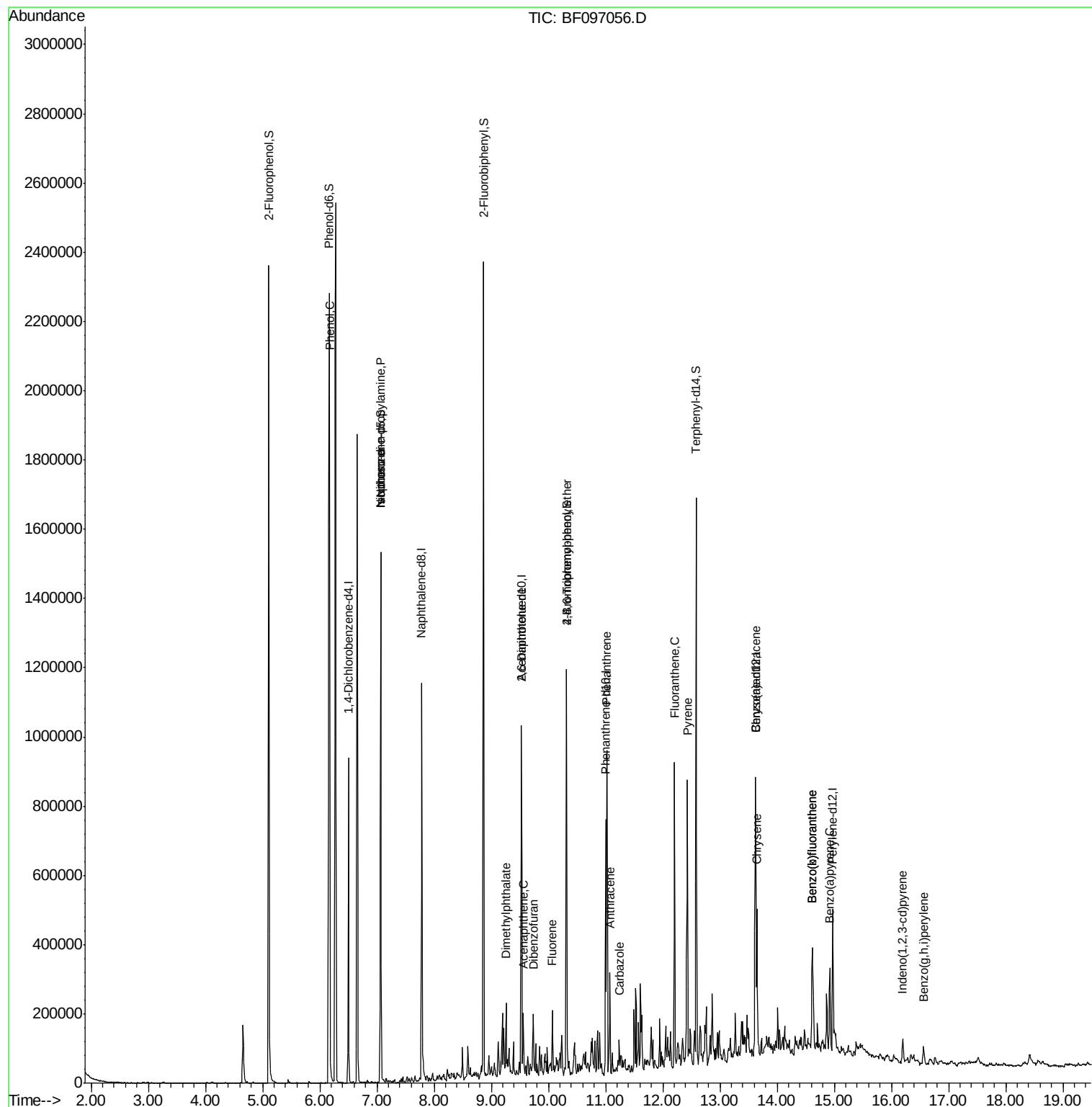
|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 10) Phenol                     | 6.17  | 94  | 32443  | 2.87  | ng | 99     |
| 19) n-Nitroso-di-n-propylamine | 7.07  | 70  | 64223  | 10.25 | ng | # 87   |
| 25) Isophorone                 | 7.07  | 82  | 467330 | 29.31 | ng | # 67   |
| 49) Dimethylphthalate          | 9.26  | 163 | 69415  | 5.06  | ng | 100    |
| 50) 2,6-Dinitrotoluene         | 9.53  | 165 | 27100  | 9.32  | ng | # 35   |
| 51) Acenaphthene               | 9.56  | 154 | 32935  | 3.21  | ng | 95     |
| 54) Dibenzofuran               | 9.73  | 168 | 41007  | 3.00  | ng | # 95   |
| 57) Fluorene                   | 10.07 | 166 | 39020  | 3.80  | ng | 98     |
| 66) 4-Bromophenyl-phenylether  | 10.32 | 248 | 7675   | 2.82  | ng | # 1    |
| 70) Phenanthrene               | 11.03 | 178 | 365243 | 25.01 | ng | 97     |
| 71) Anthracene                 | 11.07 | 178 | 100140 | 6.69  | ng | 98     |
| 72) Carbazole                  | 11.24 | 167 | 37150  | 2.52  | ng | 97     |
| 74) Fluoranthene               | 12.20 | 202 | 352592 | 24.64 | ng | 98     |
| 77) Pyrene                     | 12.43 | 202 | 343168 | 19.90 | ng | 97     |
| 80) Benzo(a)anthracene         | 13.62 | 228 | 173943 | 12.76 | ng | 99     |
| 82) Chrysene                   | 13.65 | 228 | 141582 | 10.64 | ng | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.20 | 276 | 39397  | 3.45  | ng | # 92   |
| 87) Benzo(b)fluoranthene       | 14.62 | 252 | 176020 | 18.32 | ng | # 97   |
| 88) Benzo(k)fluoranthene       | 14.62 | 252 | 176020 | 19.22 | ng | 98     |
| 89) Benzo(a)pyrene             | 14.92 | 252 | 94515  | 10.75 | ng | 97     |
| 91) Benzo(g,h,i)perylene       | 16.56 | 276 | 36160  | 4.78  | ng | 97     |

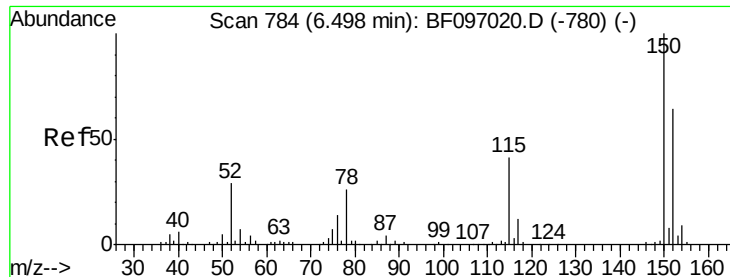
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\  
Data File : BF097056.D  
Acq On : 26 Jul 2017 4:43  
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Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
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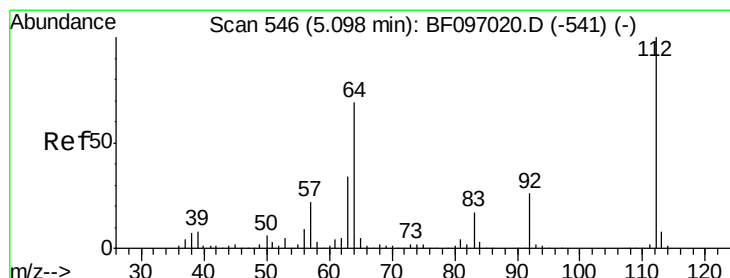
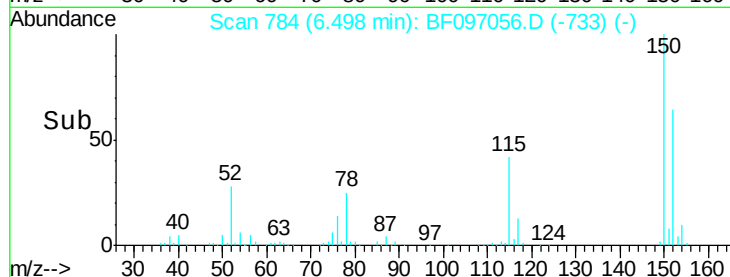
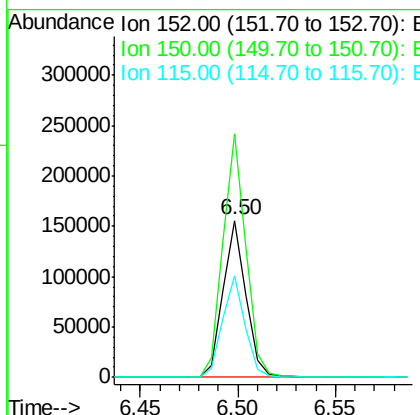
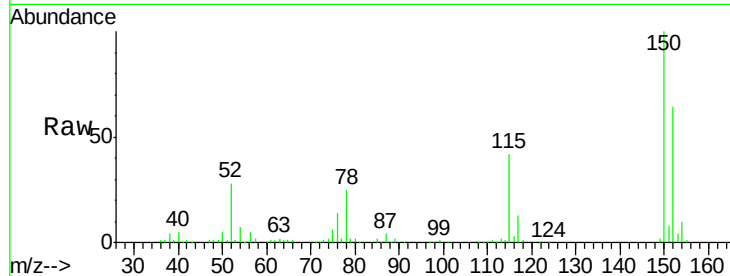


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.50 min Scan# 784  
Delta R.T. -0.00 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

Instrument :  
BNA\_F  
ClientSampleId :  
E2-M5-BASE

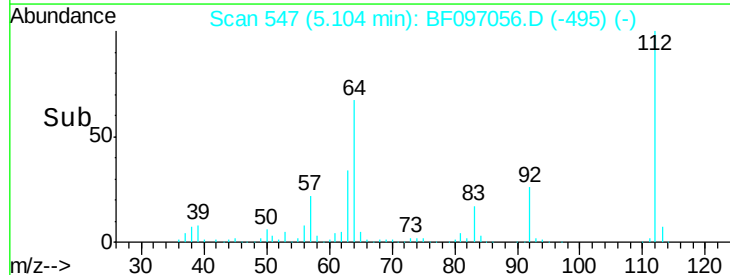
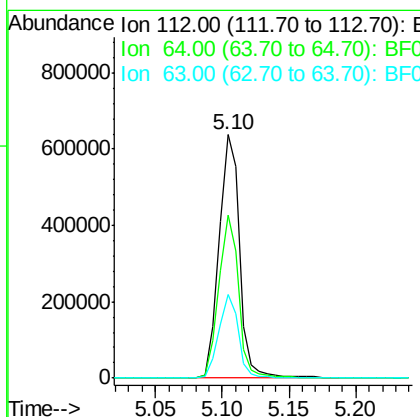
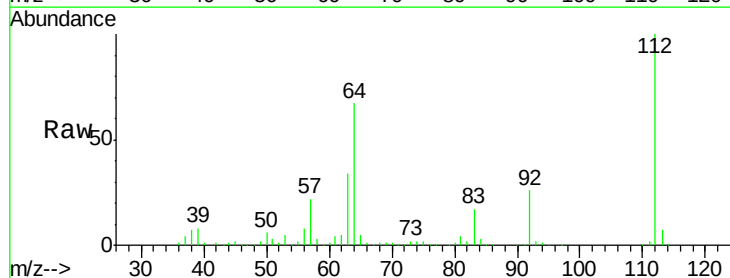
Tot Ion:152 Resp: 125740  
Ion Ratio Lower Upper  
152 100  
150 155.4 126.2 189.2  
115 64.5 52.2 78.2

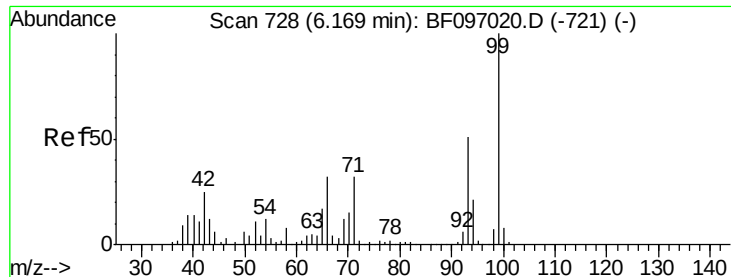


#5

2-Fluorophenol  
Concen: 83.79 ng  
RT: 5.10 min Scan# 547  
Delta R.T. 0.01 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

Tgt Ion:112 Resp: 698928  
Ion Ratio Lower Upper  
112 100  
64 66.9 46.0 69.0  
63 34.3 23.4 35.0





#7

Phenol-d6

Concen: 89.40 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

E2-M5-BASE

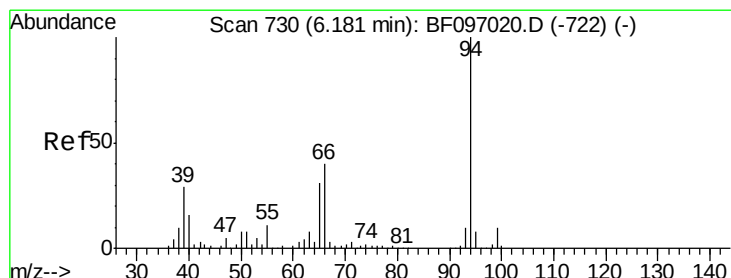
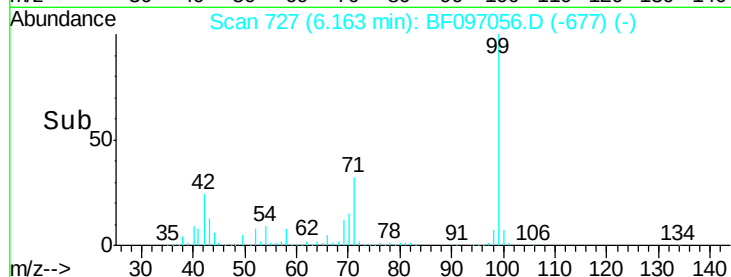
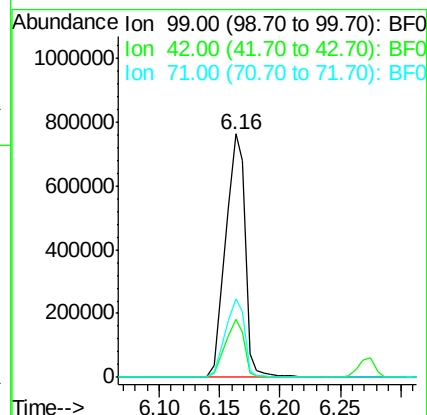
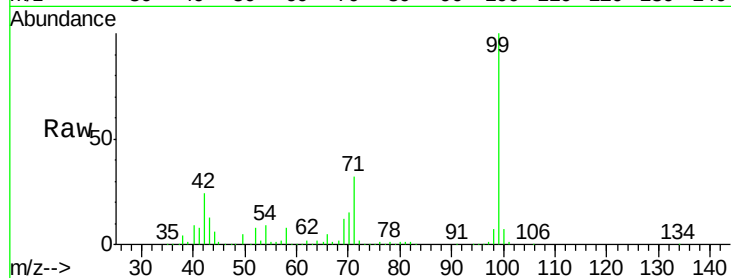
Tot Ion: 99 Resp: 851255

Ion Ratio Lower Upper

99 100

42 23.9 13.5 20.3#

71 32.3 24.5 36.7



#10

Phenol

Concen: 2.87 ng

RT: 6.17 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

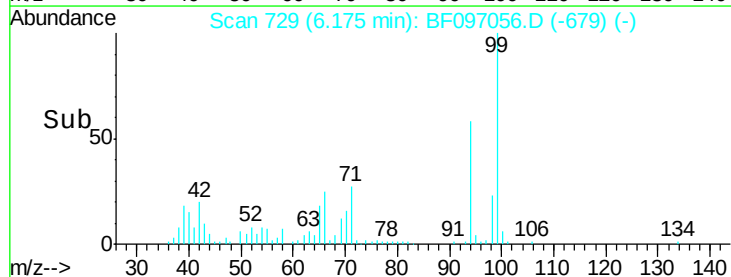
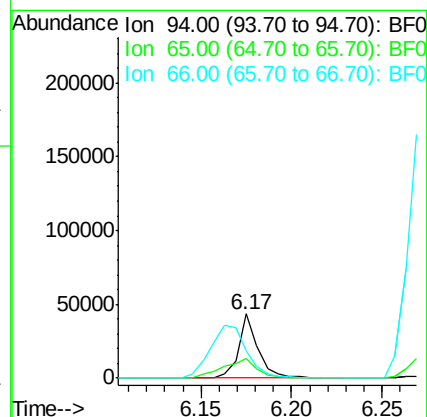
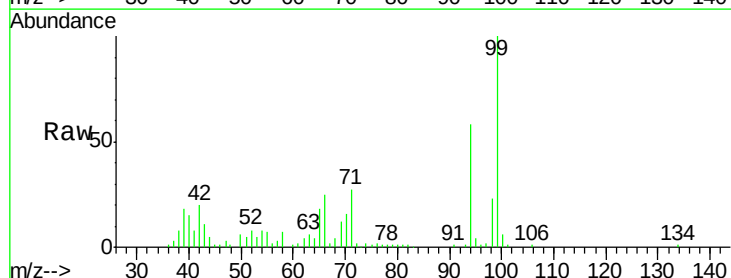
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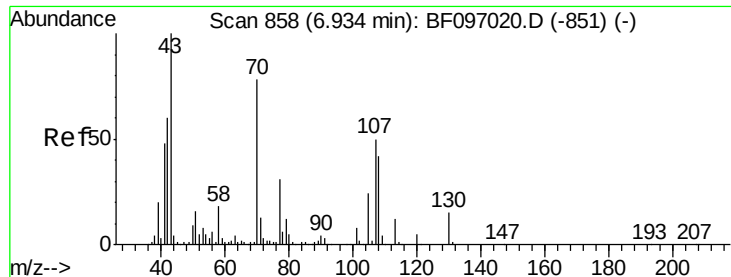
Ion Ratio Lower Upper

94 100

65 31.4 9.9 49.9

66 43.4 23.1 63.1

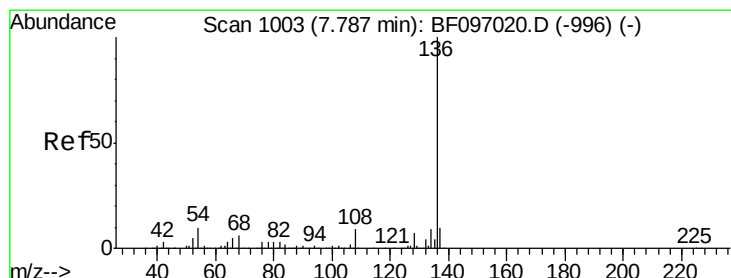
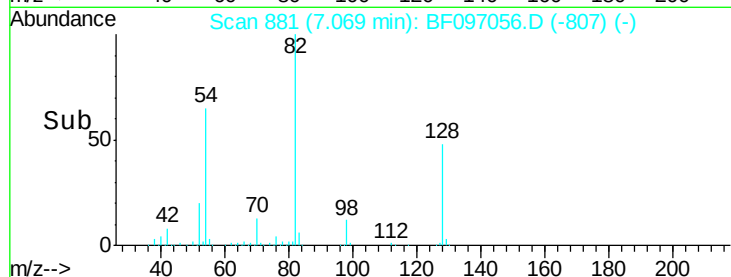
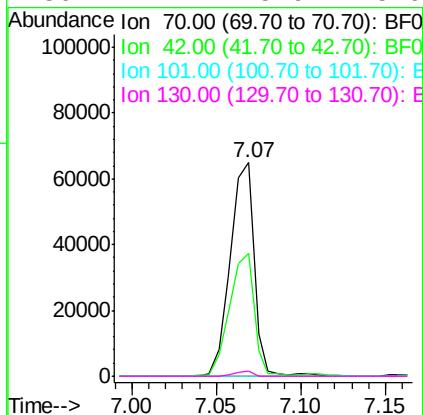
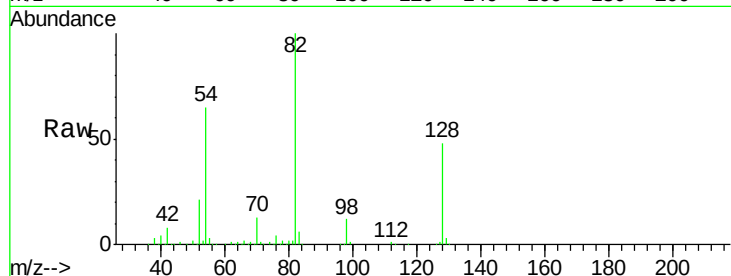




#19  
n-Nitroso-di-n-propylamine  
Concen: 10.25 ng  
RT: 7.07 min Scan# 881  
Delta R.T. 0.14 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

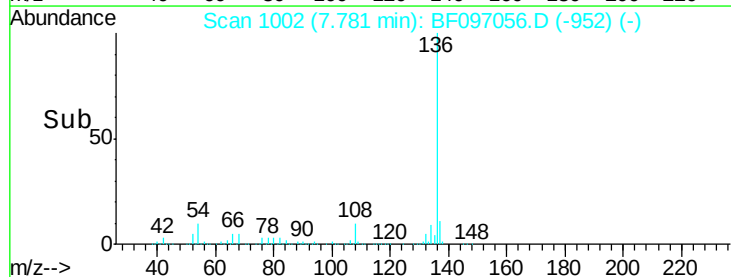
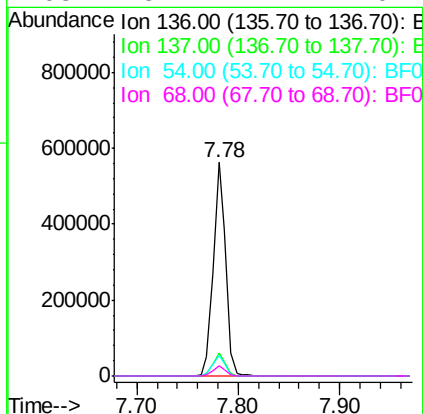
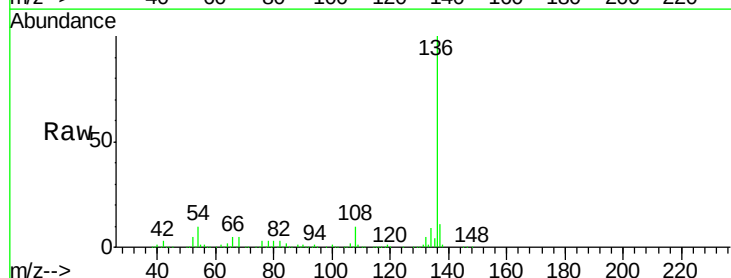
Instrument :  
BNA\_F  
ClientSampled :  
E2-M5-BASE

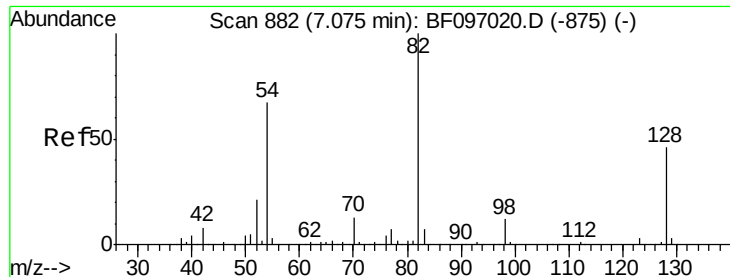
Tot Ion: 70 Resp: 64223  
Ion Ratio Lower Upper  
70 100  
42 57.5 47.2 70.8  
101 0.0 7.2 10.8#  
130 2.2 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.78 min Scan# 1002  
Delta R.T. -0.01 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

Tgt Ion:136 Resp: 477679  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.5 12.7  
54 9.9 4.9 7.3#  
68 5.1 4.1 6.1

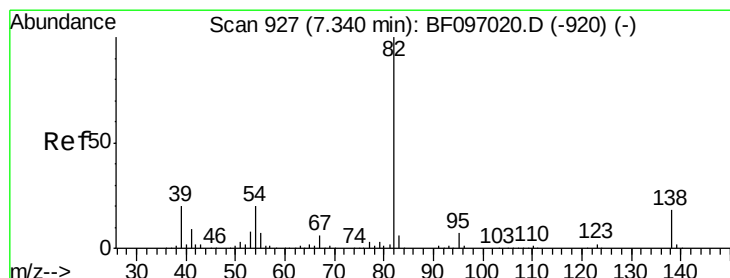
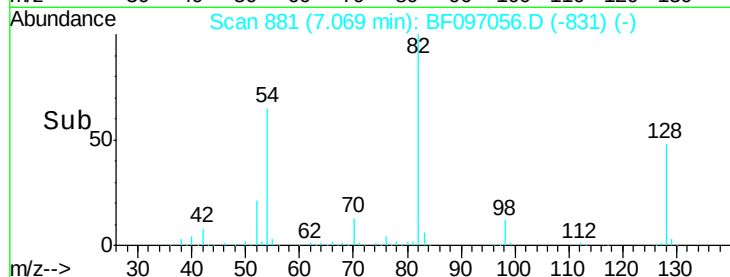
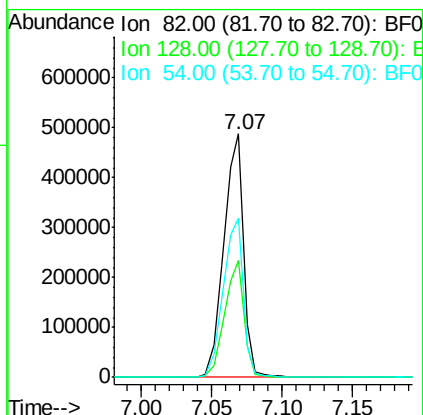
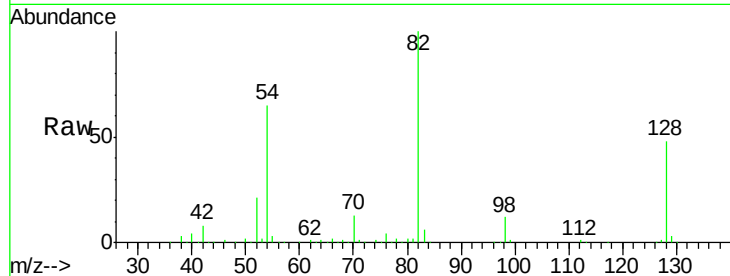




#23  
 Nitrobenzene-d5  
 Concen: 58.05 ng  
 RT: 7.07 min Scan# 881  
 Delta R.T. -0.01 min  
 Lab File: BF097056.D  
 Acq: 26 Jul 2017 4:43

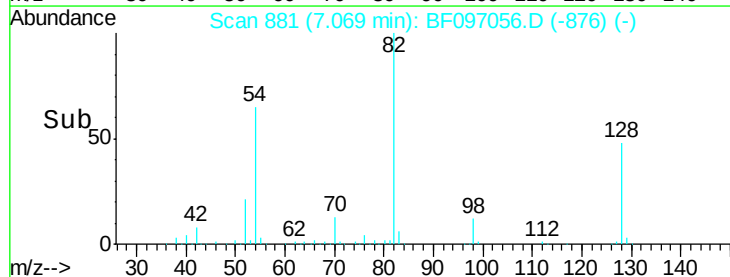
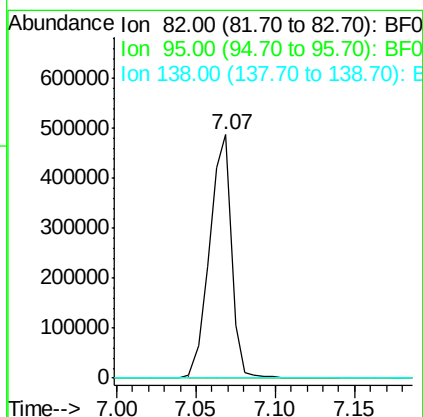
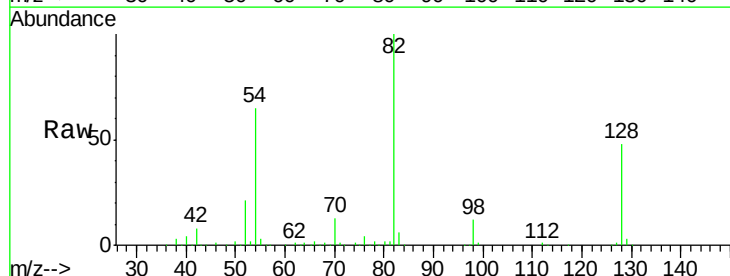
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M5-BASE

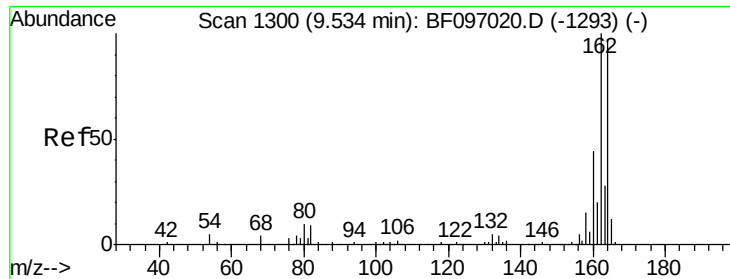
Tot Ion: 82 Resp: 472718  
 Ion Ratio Lower Upper  
 82 100  
 128 48.1 34.0 51.0  
 54 65.4 42.2 63.2#



#25  
 Isophorone  
 Concen: 29.31 ng  
 RT: 7.07 min Scan# 881  
 Delta R.T. -0.27 min  
 Lab File: BF097056.D  
 Acq: 26 Jul 2017 4:43

Tgt Ion: 82 Resp: 467330  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#

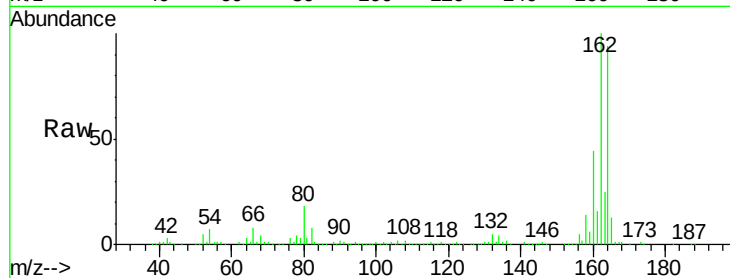




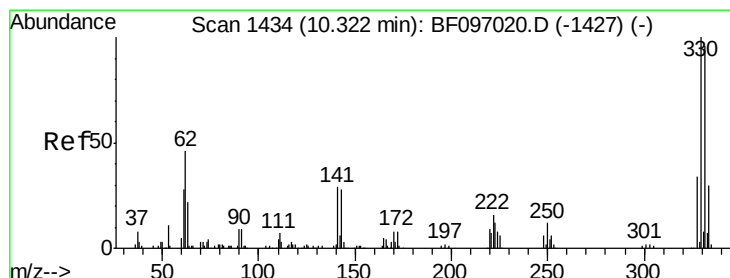
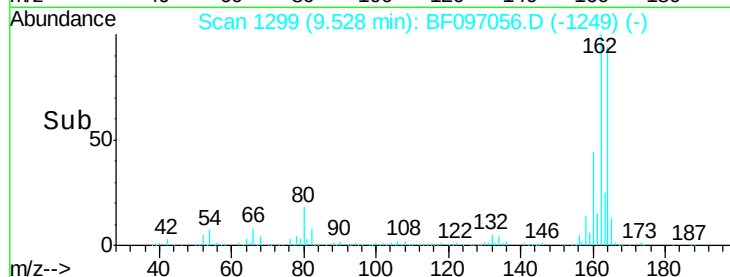
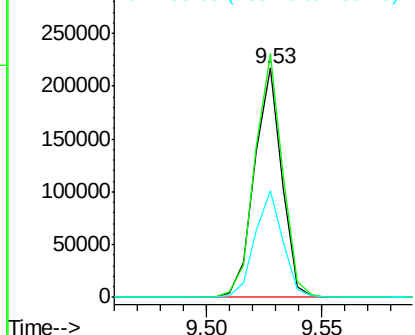
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.53 min Scan# 1299  
 Delta R.T. -0.01 min  
 Lab File: BF097056.D  
 Acq: 26 Jul 2017 4:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M5-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.2 | 82.6  | 123.8 |
| 160     | 46.4  | 36.2  | 54.2  |

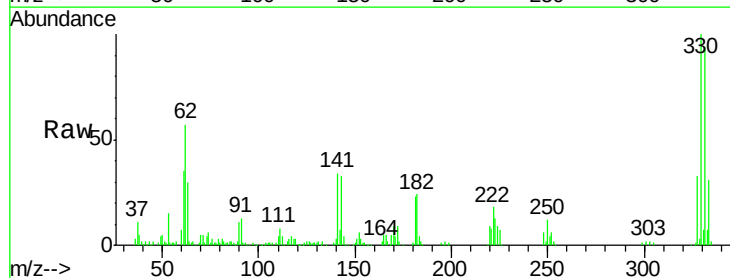


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

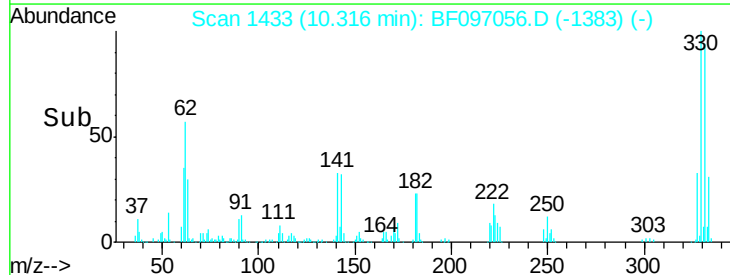
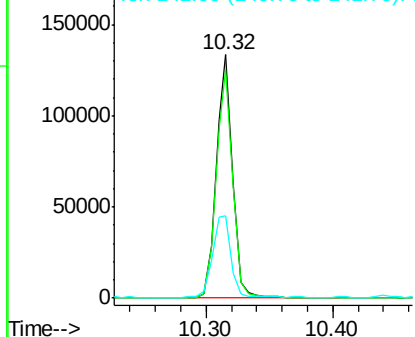


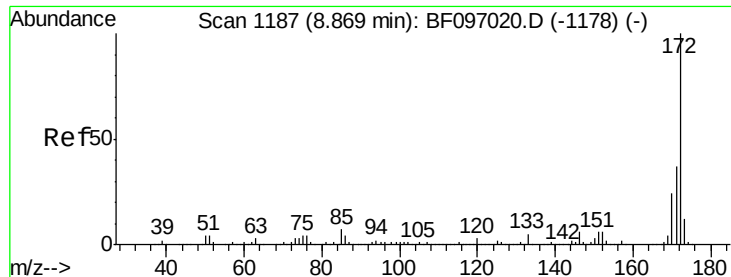
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 2,4,6-Tribromophenol  
 Concen: 84.65 ng  
 RT: 10.32 min Scan# 1433  
 Delta R.T. -0.01 min  
 Lab File: BF097056.D  
 Acq: 26 Jul 2017 4:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.9  | 76.6  | 115.0 |
| 141     | 40.4  | 31.4  | 47.2  |



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

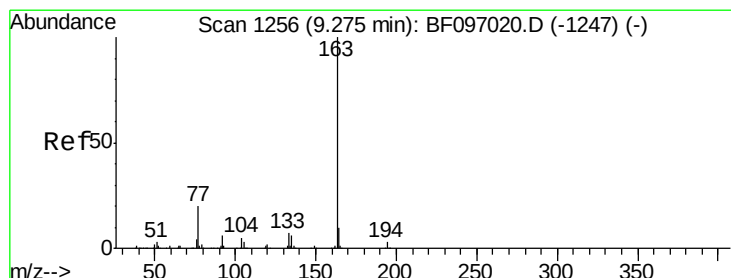
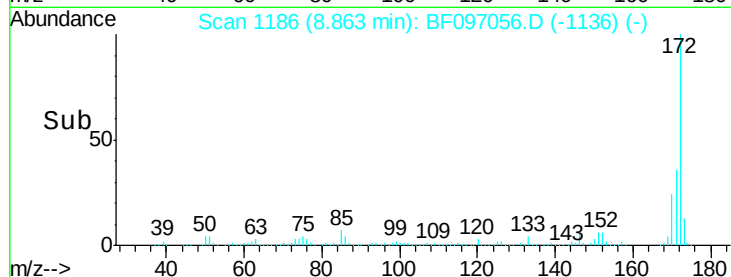
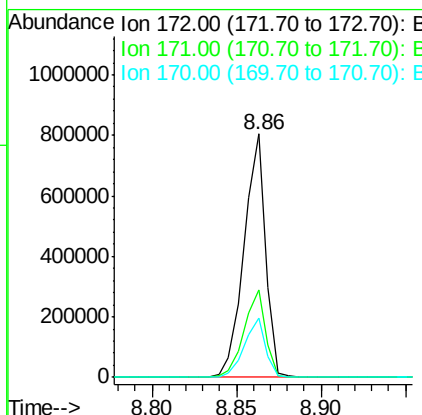
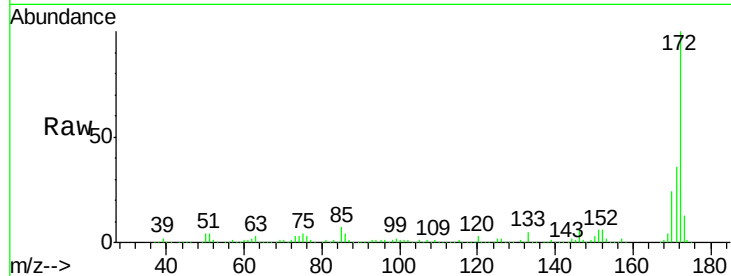




#44  
2-Fluorobiphenyl  
Concen: 67.95 ng  
RT: 8.86 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

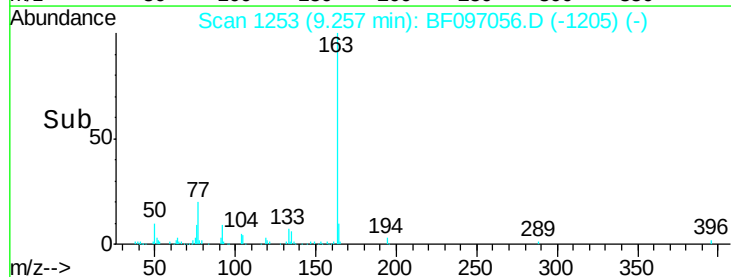
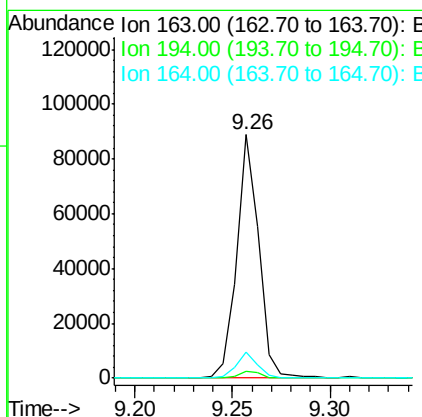
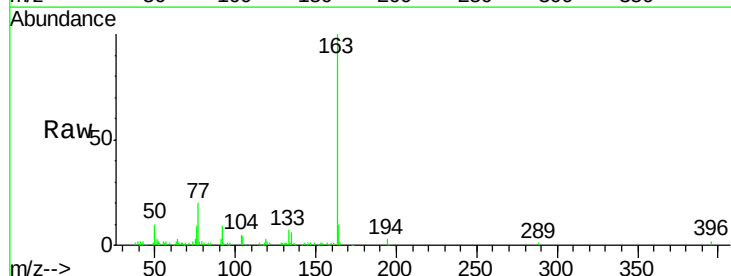
Instrument :  
BNA\_F  
ClientSampleId :  
E2-M5-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.6  | 44.4  |
| 170     | 24.1  | 19.8  | 29.8  |

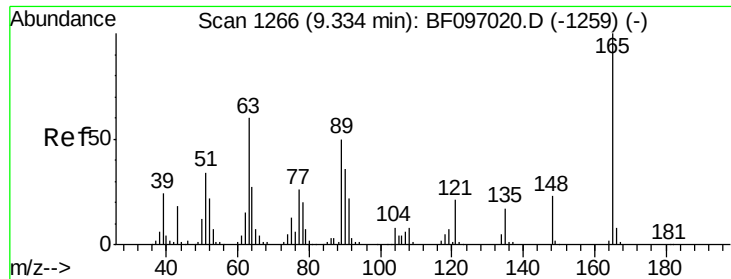


#49  
Dimethylphthalate  
Concen: 5.06 ng  
RT: 9.26 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.0   | 2.6   | 4.0   |
| 164     | 10.4  | 8.4   | 12.6  |



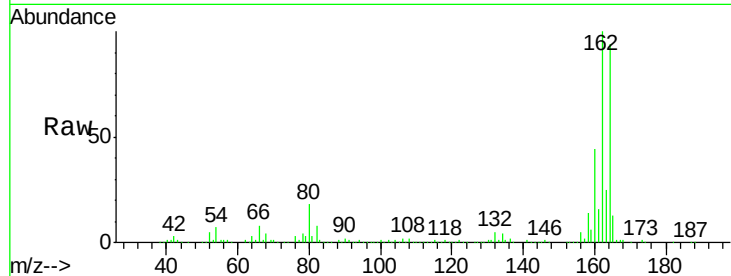




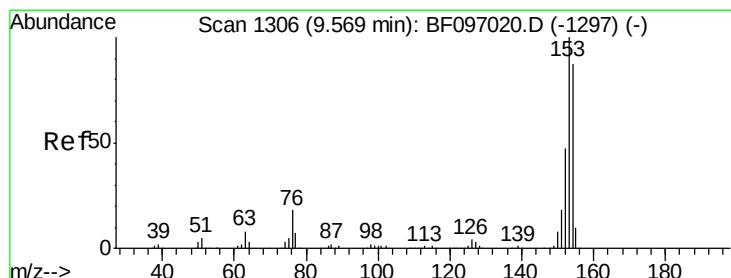
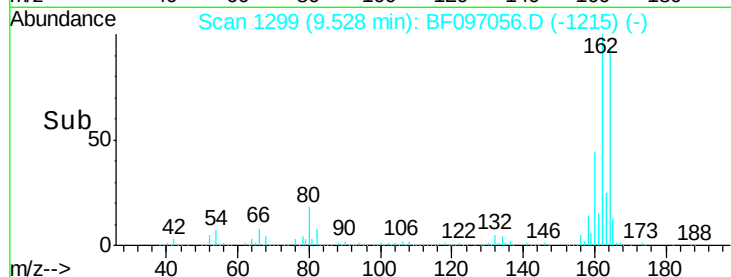
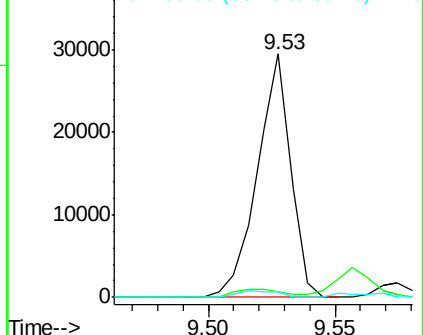
#50  
2,6-Dinitrotoluene  
Concen: 9.32 ng  
RT: 9.53 min Scan# 1299  
Delta R.T. 0.19 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

Instrument :  
BNA\_F  
ClientSampleId :  
E2-M5-BASE

Tot Ion:165 Resp: 27100  
Ion Ratio Lower Upper  
165 100  
63 2.4 34.3 51.5#  
89 2.2 37.1 55.7#

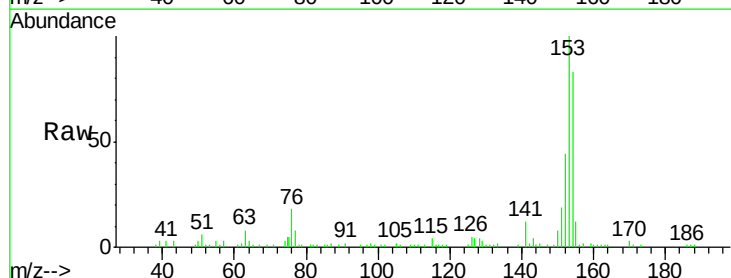


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

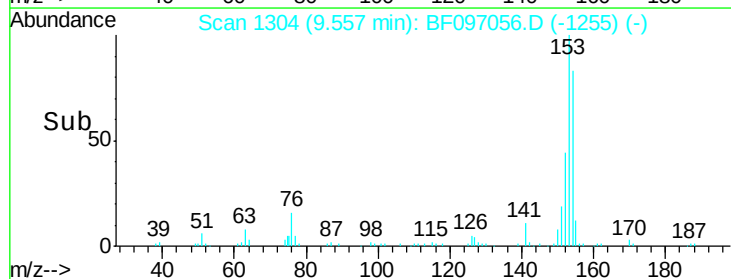
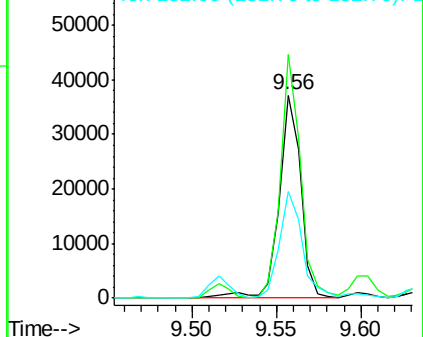


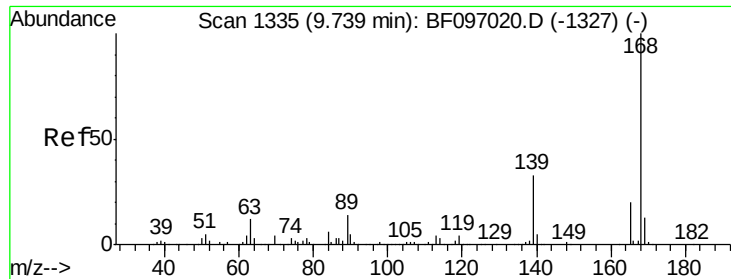
#51  
Acenaphthene  
Concen: 3.21 ng  
RT: 9.56 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

Tgt Ion:154 Resp: 32935  
Ion Ratio Lower Upper  
154 100  
153 119.8 90.5 135.7  
152 52.2 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 3.00 ng

RT: 9.73 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

E2-M5-BASE

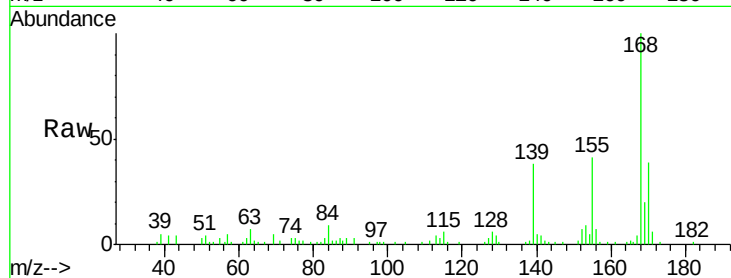
Tot Ion:168 Resp: 41007

Ion Ratio Lower Upper

168 100

139 37.7 30.6 45.8

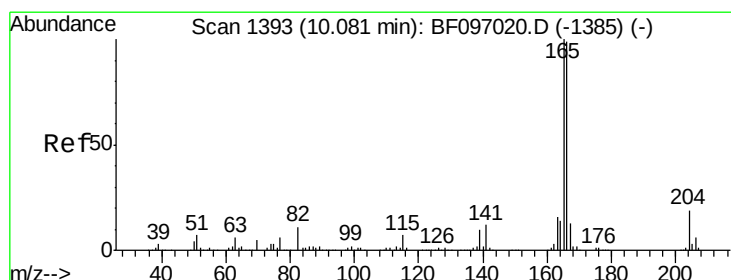
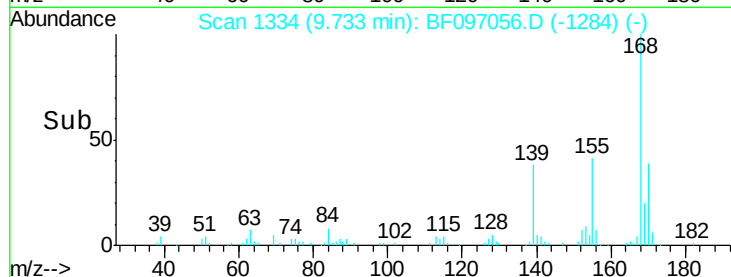
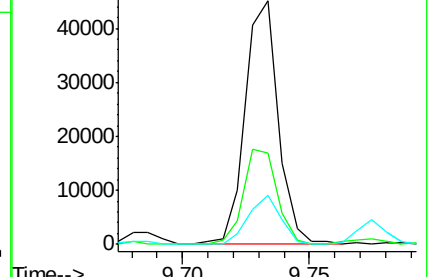
169 20.2 10.8 16.2#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 3.80 ng

RT: 10.07 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

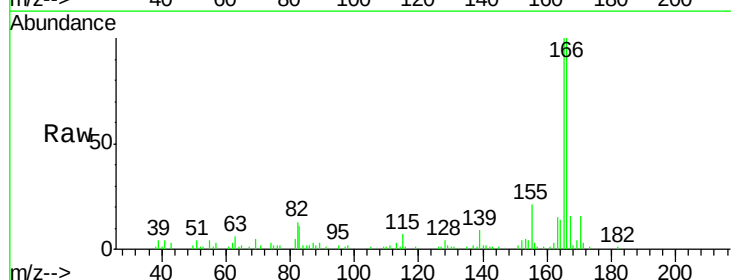
Tgt Ion:166 Resp: 39020

Ion Ratio Lower Upper

166 100

165 99.6 78.8 118.2

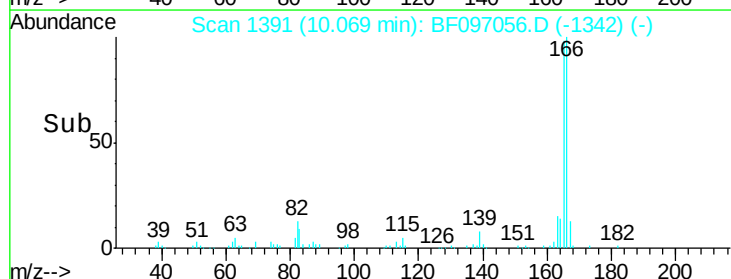
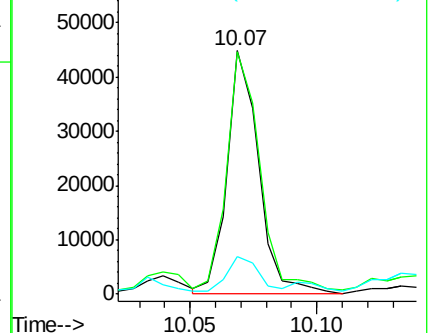
167 15.5 10.6 16.0

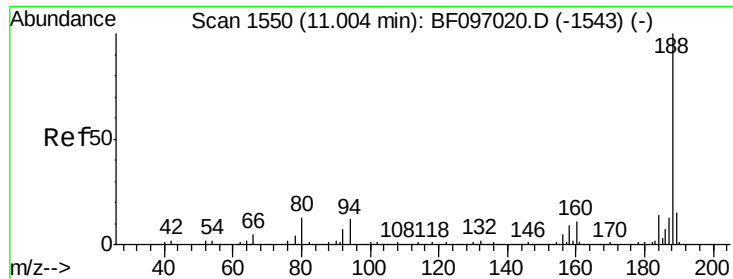


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.00 min Scan# 1549

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

E2-M5-BASE

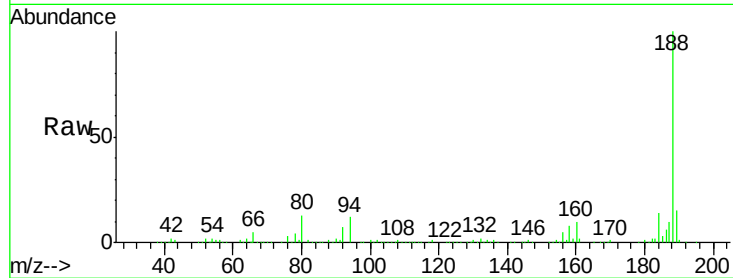
Tot Ion:188 Resp: 272614

Ion Ratio Lower Upper

188 100

94 11.8 9.4 14.2

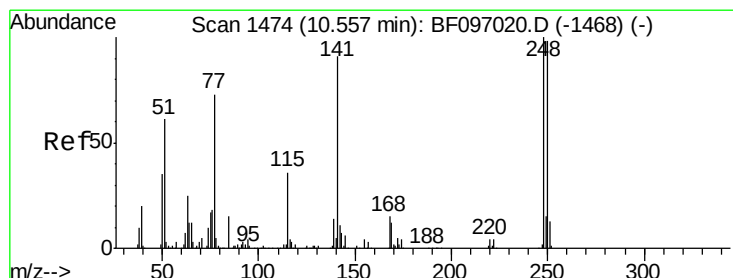
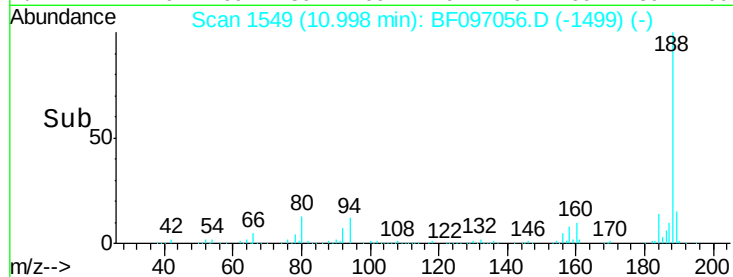
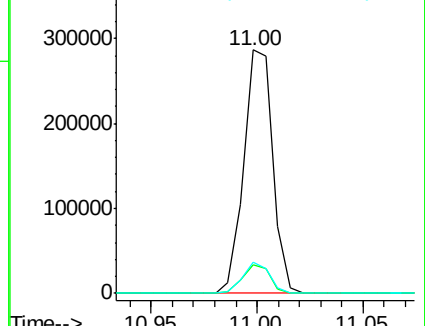
80 13.0 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66

4-Bromophenyl-phenylether

Concen: 2.82 ng

RT: 10.32 min Scan# 1433

Delta R.T. -0.24 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

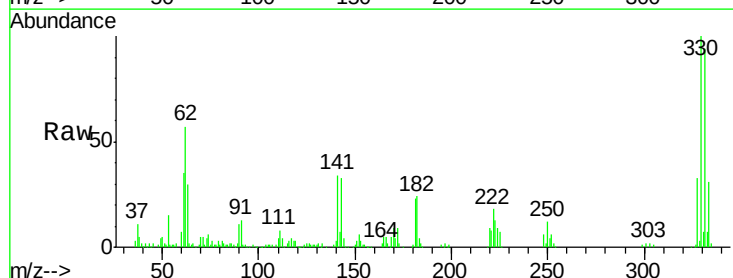
Tgt Ion:248 Resp: 7675

Ion Ratio Lower Upper

248 100

250 210.0 76.8 115.2#

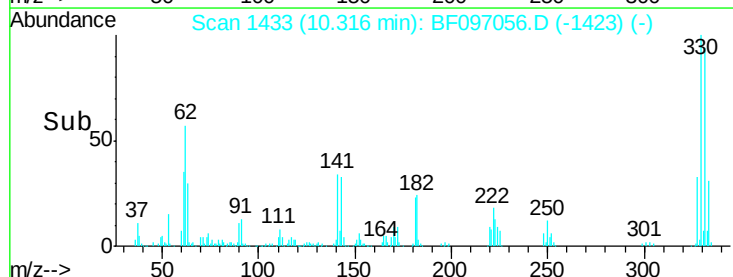
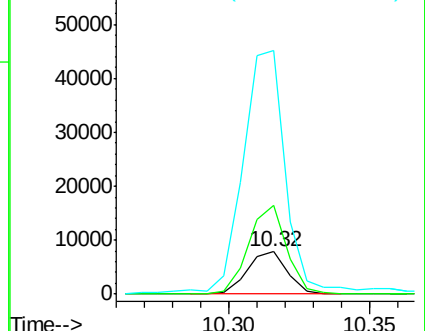
141 576.9 68.6 103.0#

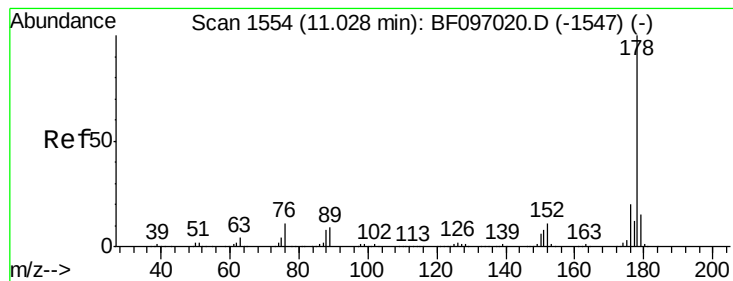


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 25.01 ng

RT: 11.03 min Scan# 1554

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

E2-M5-BASE

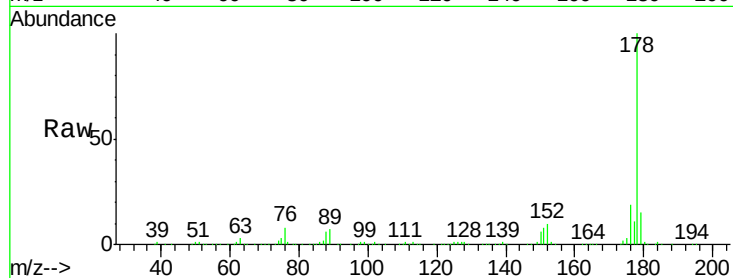
Tot Ion:178 Resp: 365243

Ion Ratio Lower Upper

178 100

176 18.8 16.2 24.4

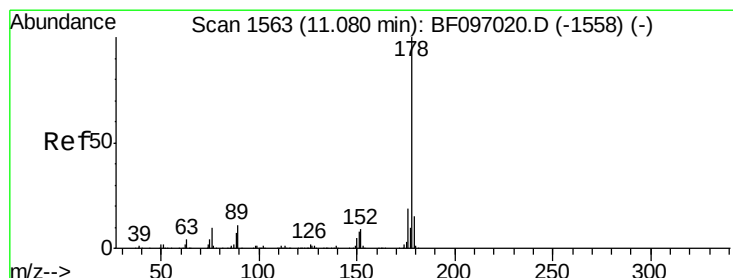
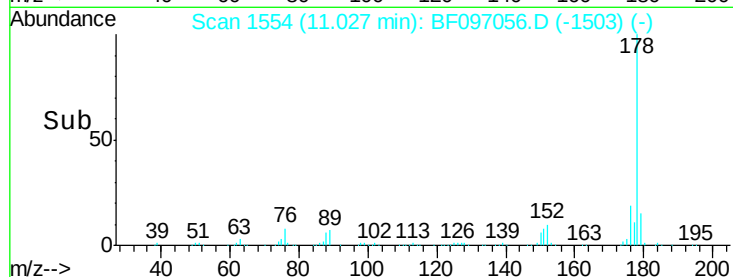
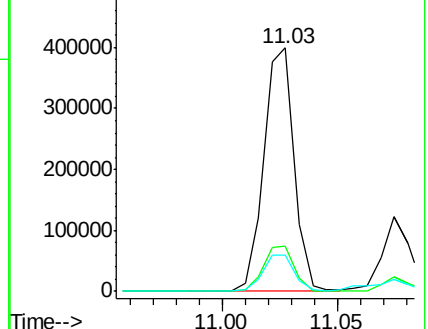
179 15.1 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 6.69 ng

RT: 11.07 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

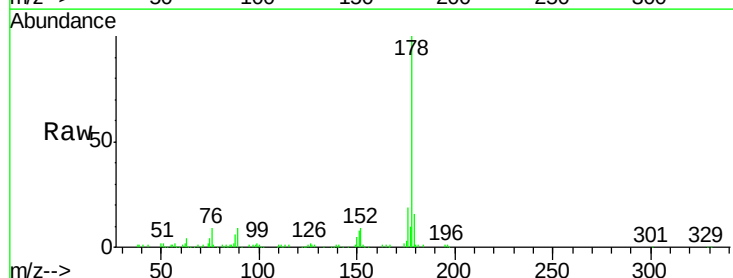
Tgt Ion:178 Resp: 100140

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

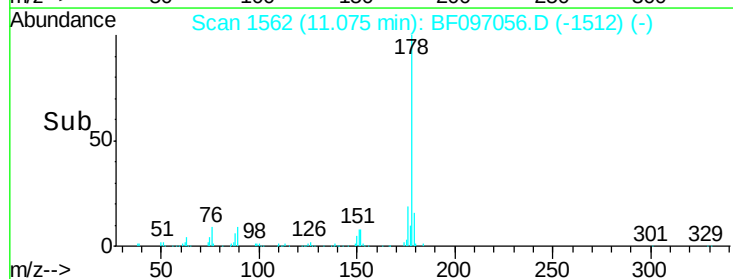
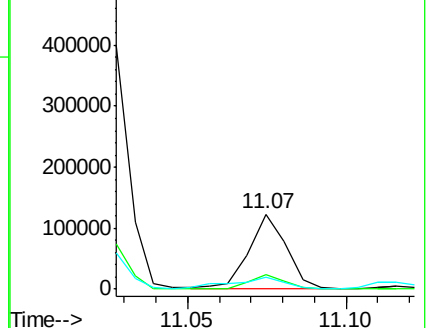
179 15.8 12.7 19.1

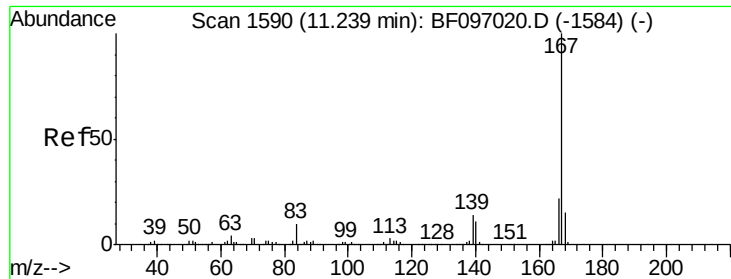


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.52 ng

RT: 11.24 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampled :

E2-M5-BASE

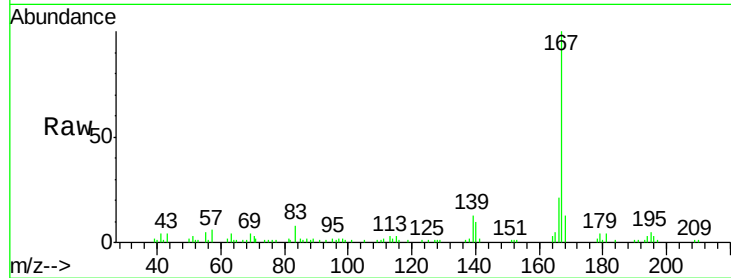
Tot Ion:167 Resp: 37150

Ion Ratio Lower Upper

167 100

166 21.4 18.1 27.1

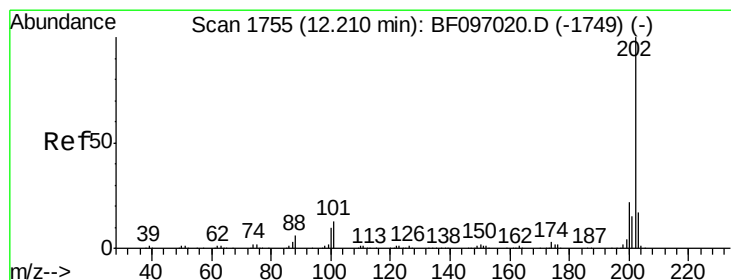
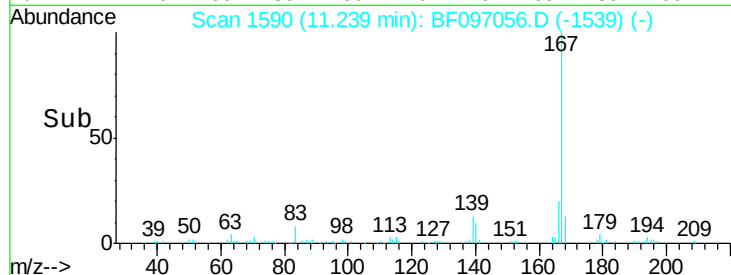
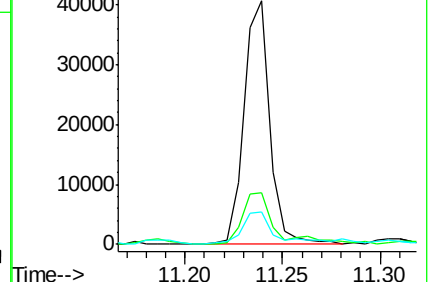
139 13.4 11.7 17.5



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: 24.64 ng

RT: 12.20 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

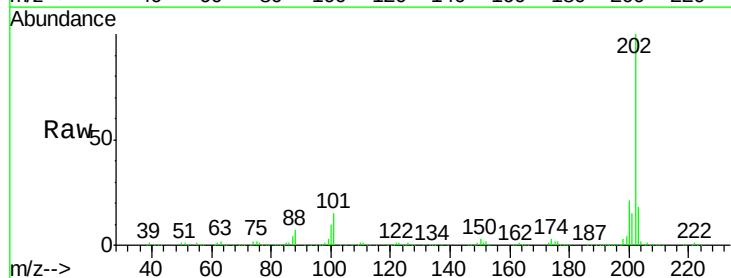
Tgt Ion:202 Resp: 352592

Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.2

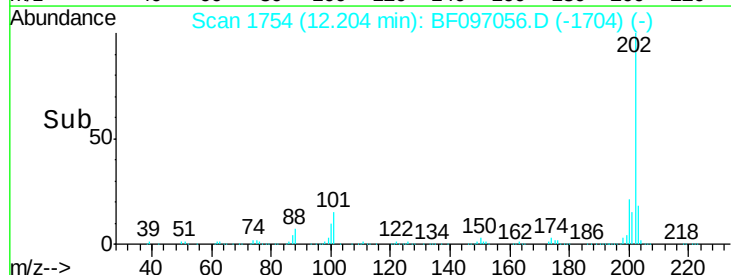
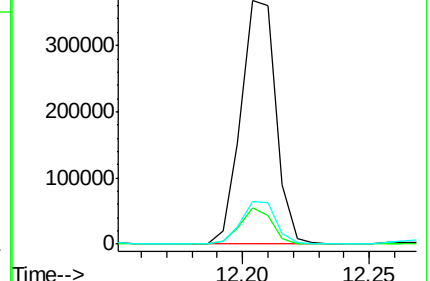
203 17.7 0.0 38.1

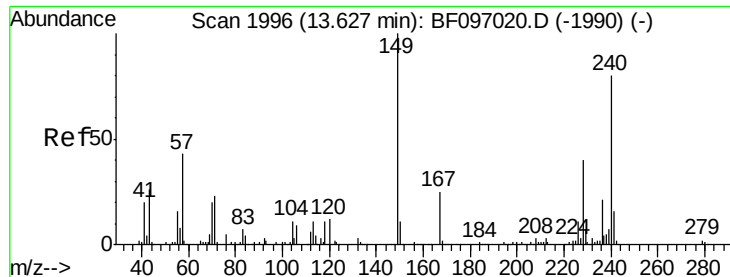


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.63 min Scan# 1996

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

E2-M5-BASE

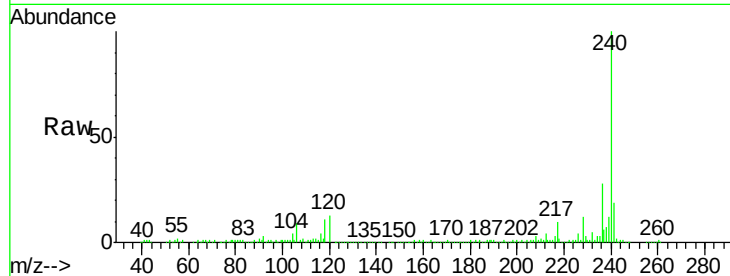
Tot Ion:240 Resp: 210657

Ion Ratio Lower Upper

240 100

120 12.8 5.8 8.8#

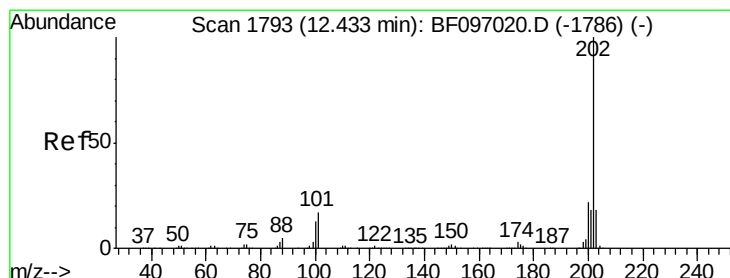
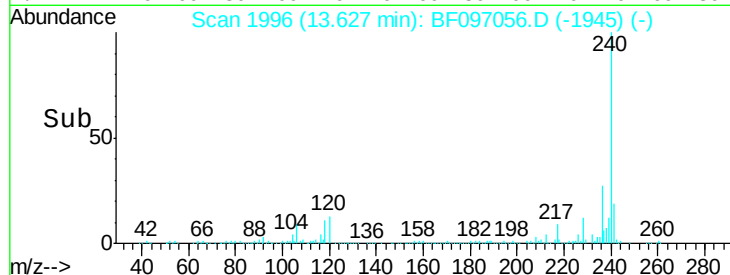
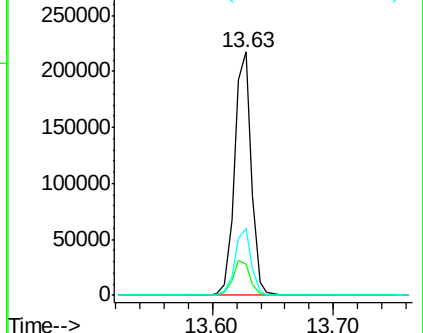
236 27.6 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 19.90 ng

RT: 12.43 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

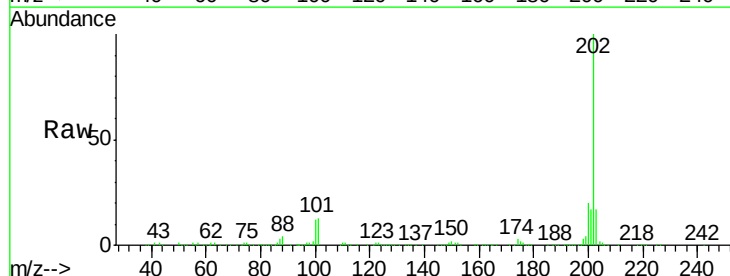
Tgt Ion:202 Resp: 343168

Ion Ratio Lower Upper

202 100

200 20.3 17.6 26.4

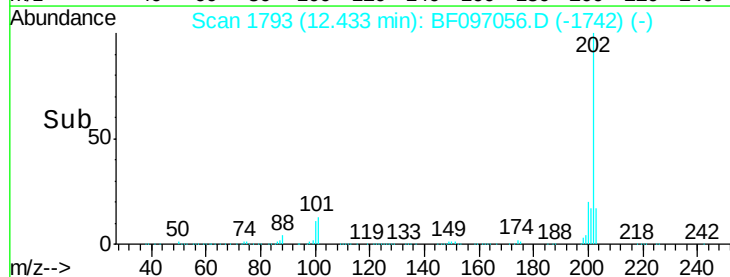
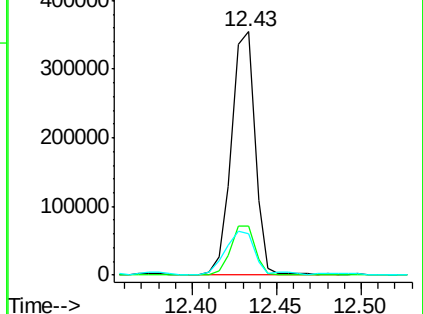
203 17.0 14.4 21.6

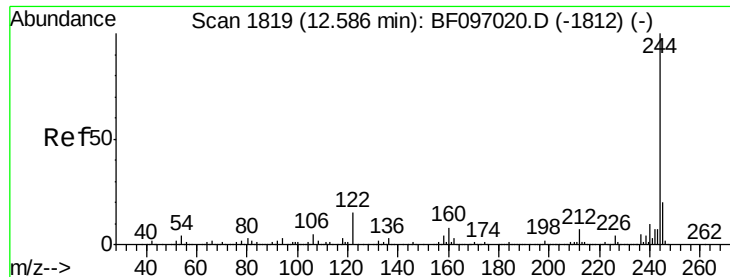


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 44.70 ng

RT: 12.59 min Scan# 1819

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

E2-M5-BASE

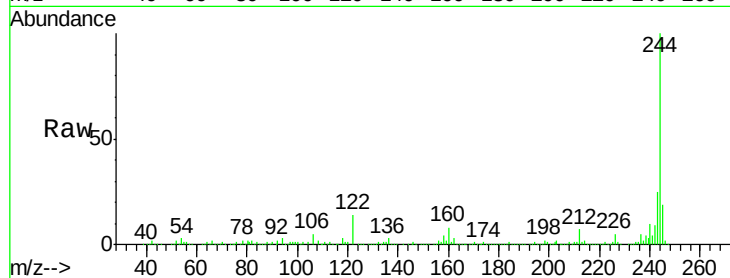
Tot Ion:244 Resp: 461836

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

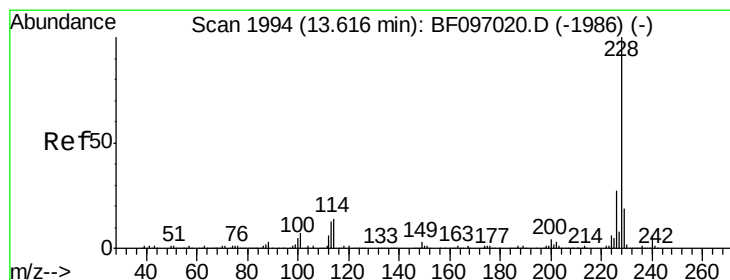
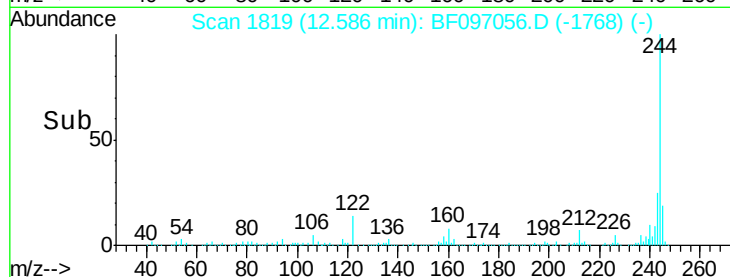
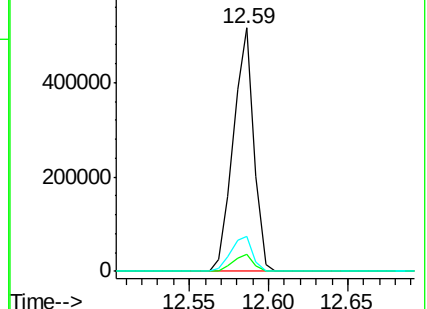
122 14.2 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 12.76 ng

RT: 13.62 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

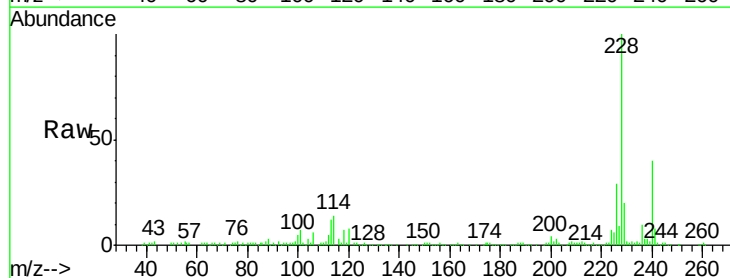
Tgt Ion:228 Resp: 173943

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

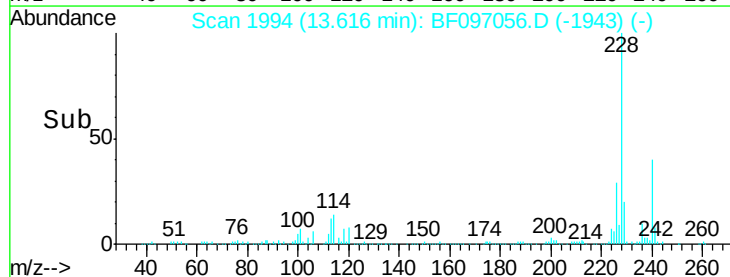
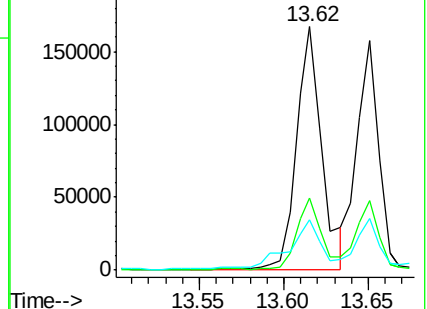
229 20.5 16.3 24.5

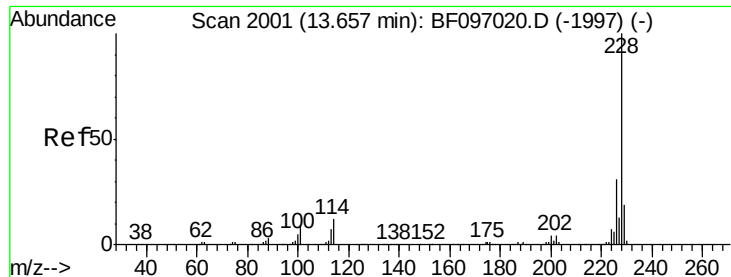


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.64 ng

RT: 13.65 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

E2-M5-BASE

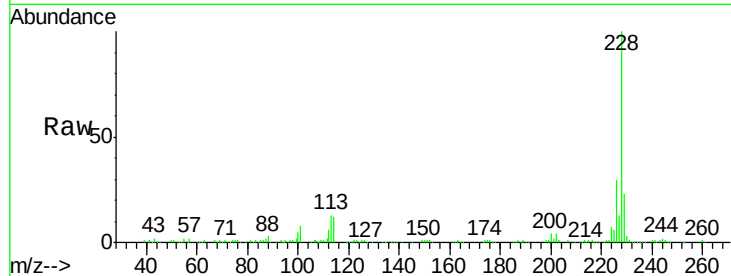
Tot Ion:228 Resp: 141582

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

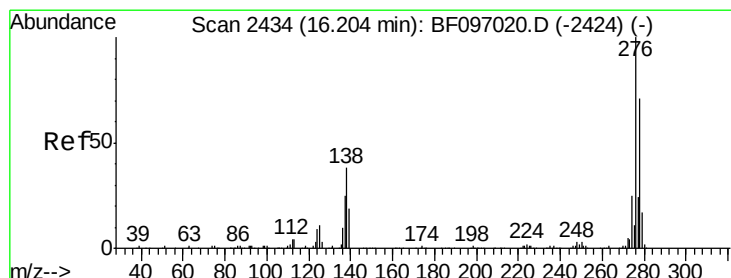
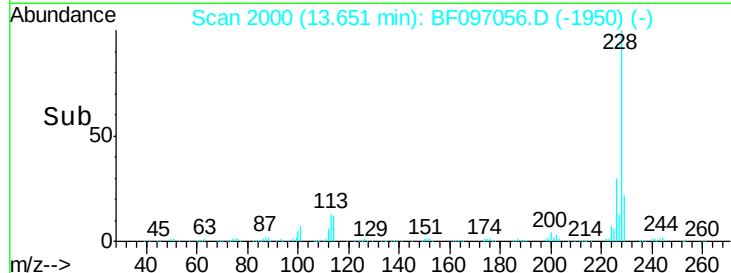
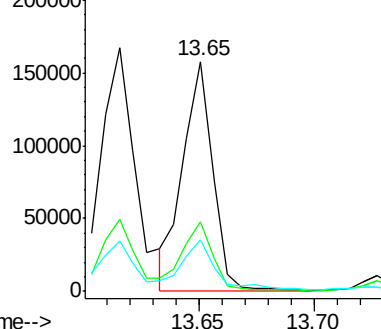
229 22.6 15.8 23.6



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

Indeno(1,2,3-cd)pyrene

Concen: 3.45 ng

RT: 16.20 min Scan# 2434

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

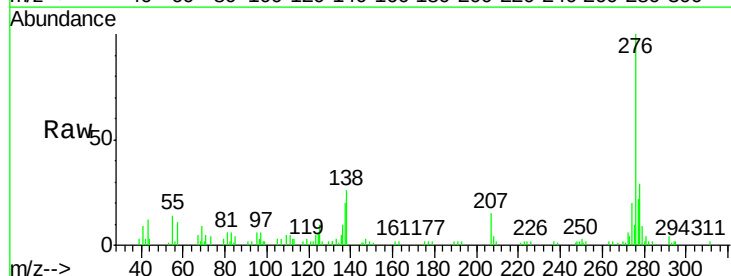
Tgt Ion:276 Resp: 39397

Ion Ratio Lower Upper

276 100

138 27.4 27.8 41.6#

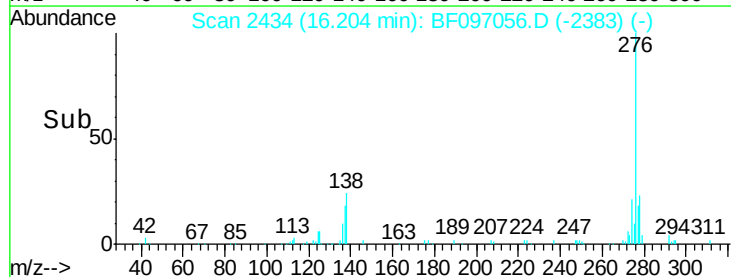
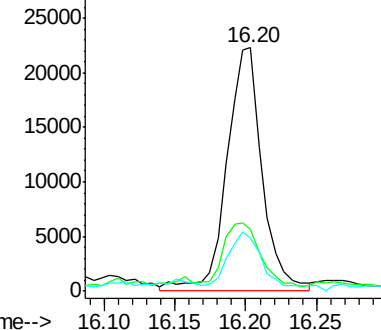
277 24.4 20.2 30.4



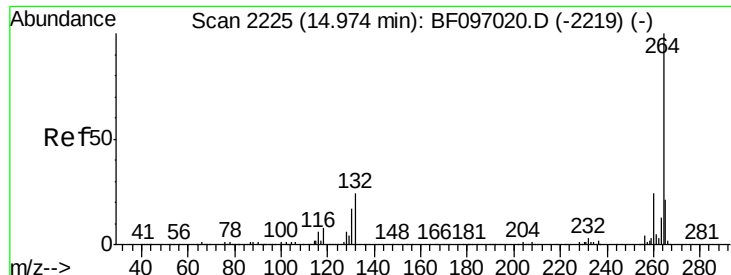
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



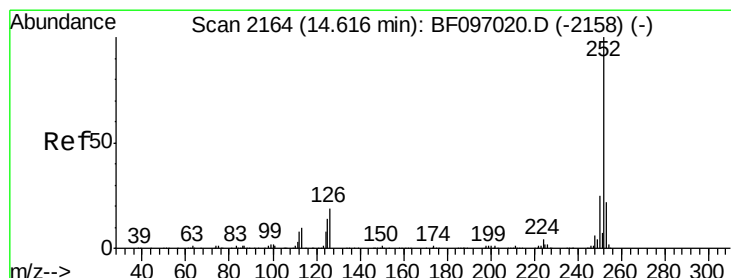
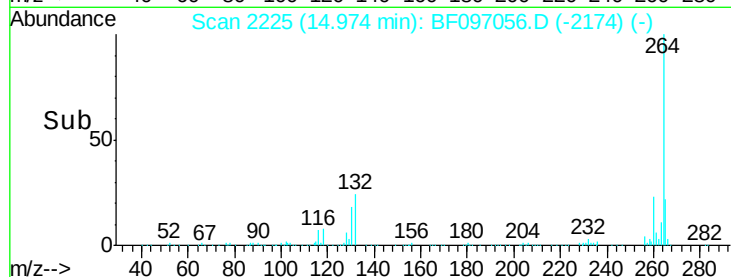
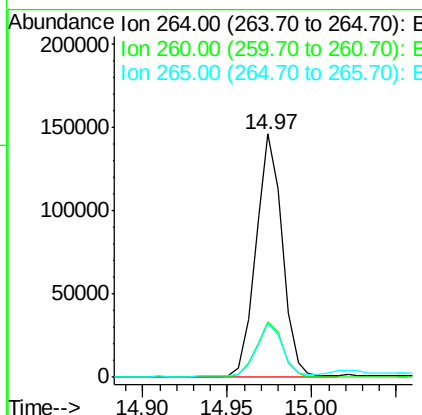
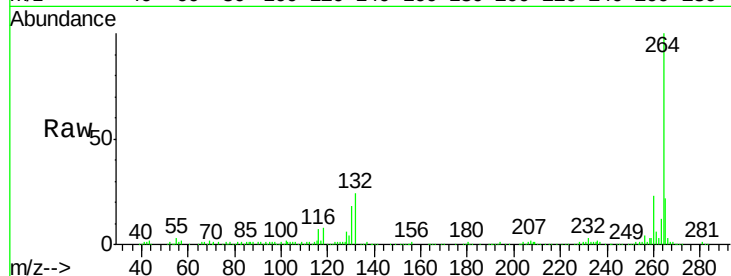




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.97 min Scan# 2225  
Delta R.T. -0.00 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

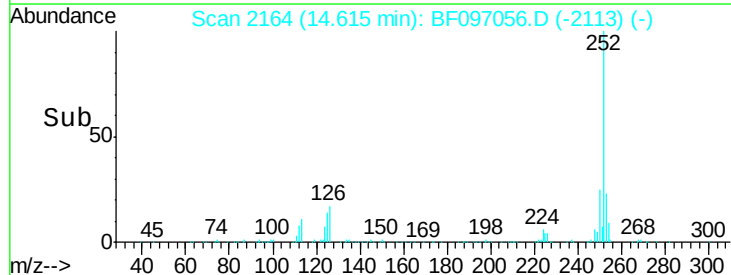
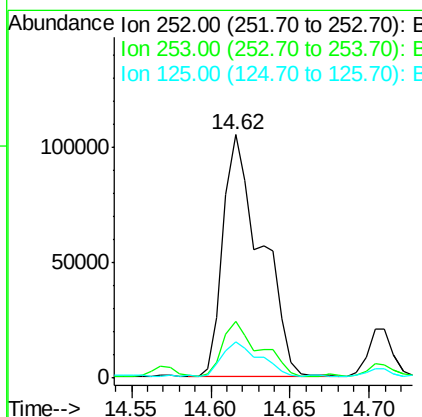
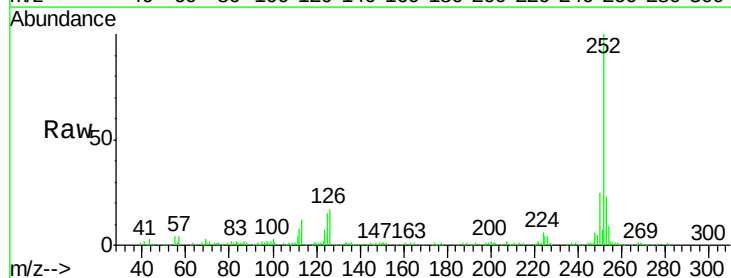
Instrument :  
BNA\_F  
ClientSampleId :  
E2-M5-BASE

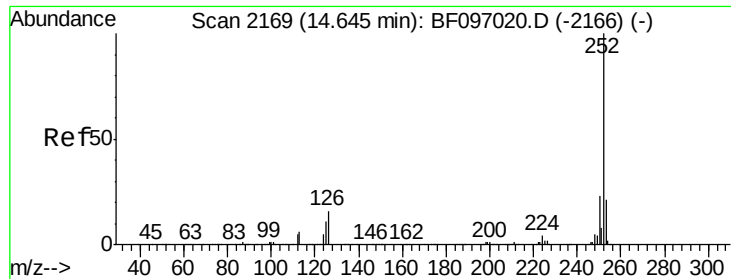
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 19.5  | 29.3  |
| 265     | 22.2  | 17.2  | 25.8  |



#87  
Benzo(b)fluoranthene  
Concen: 18.32 ng  
RT: 14.62 min Scan# 2164  
Delta R.T. -0.00 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.1  | 27.1  |
| 125     | 15.0  | 9.8   | 14.8  |

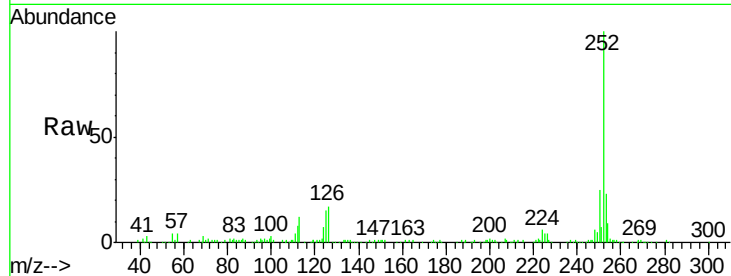




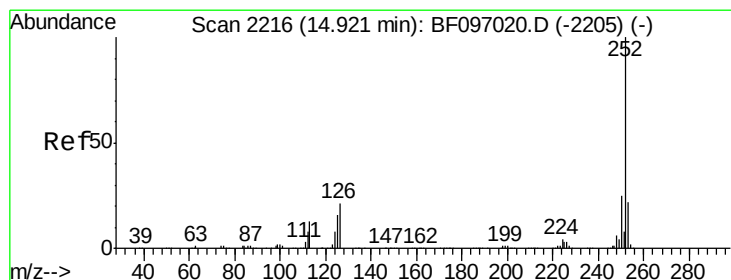
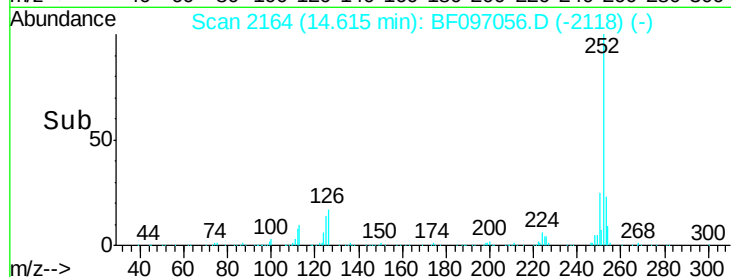
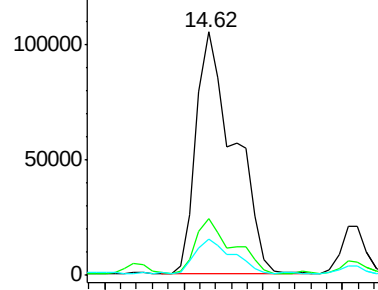
#88  
Benzo(k)fluoranthene  
Concen: 19.22 ng  
RT: 14.62 min Scan# 2164  
Delta R.T. -0.03 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

Instrument :  
BNA\_F  
ClientSampleId :  
E2-M5-BASE

Tot Ion:252 Resp: 176020  
Ion Ratio Lower Upper  
252 100  
253 23.3 18.4 27.6  
125 15.0 13.1 19.7

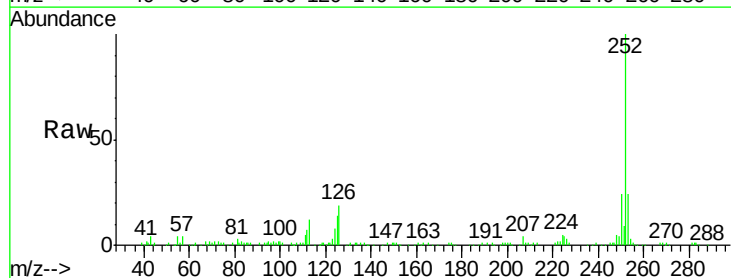


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

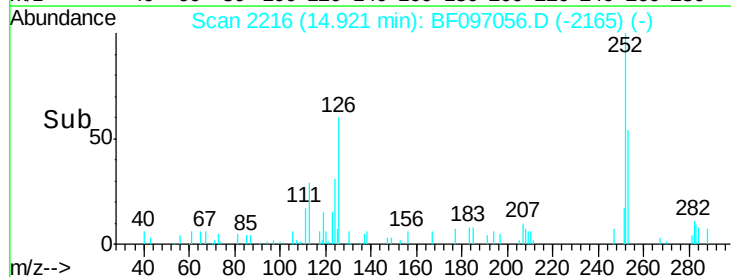
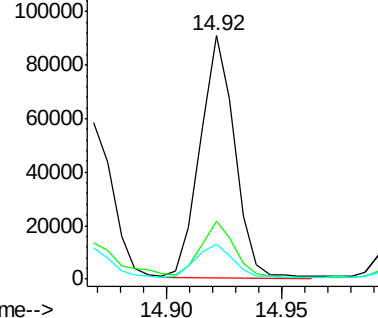


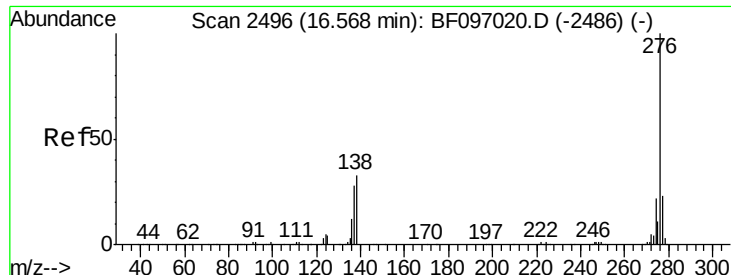
#89  
Benzo(a)pyrene  
Concen: 10.75 ng  
RT: 14.92 min Scan# 2216  
Delta R.T. -0.00 min  
Lab File: BF097056.D  
Acq: 26 Jul 2017 4:43

Tgt Ion:252 Resp: 94515  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.5 26.3  
125 14.4 11.0 16.4



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





#91  
 Benzo(a,h,i)perylene  
 Concen: 4.78 ng  
 RT: 16.56 min Scan# 2495  
 Delta R.T. -0.01 min  
 Lab File: BF097056.D  
 Acq: 26 Jul 2017 4:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M5-BASE

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:276 | Resp: | 36160     |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 277         | 22.3  | 18.6 28.0 |
| 138         | 29.7  | 25.4 38.0 |

