

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\  
 Data File : BF094045.D  
 Acq On : 30 Mar 2017 5:23  
 Operator : SJ/MA  
 Sample : I2443-04  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-P12.5-ESW

Quant Time: Mar 30 06:45:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 27 16:10:49 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 5.92  | 152  | 167997   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 7.42  | 136  | 670035   | 20.00 | ng    | -0.04    |
| 38) Acenaphthene-d10      | 9.56  | 164  | 300599   | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10      | 11.39 | 188  | 512992   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 14.64 | 240  | 333747   | 20.00 | ng    | -0.04    |
| 86) Perylene-d12          | 16.28 | 264  | 292119   | 20.00 | ng    | -0.03    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 4.46  | 112 | 1044806 | 105.04 | ng | -0.02 |
| 7) Phenol-d6                | 5.53  | 99  | 1357602 | 110.33 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 6.57  | 82  | 859808  | 73.23  | ng | -0.04 |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330 | 231943  | 97.64  | ng | -0.04 |
| 44) 2-Fluorobiphenyl        | 8.75  | 172 | 1444304 | 73.29  | ng | -0.03 |
| 78) Terphenyl-d14           | 13.37 | 244 | 981463  | 65.92  | ng | -0.04 |

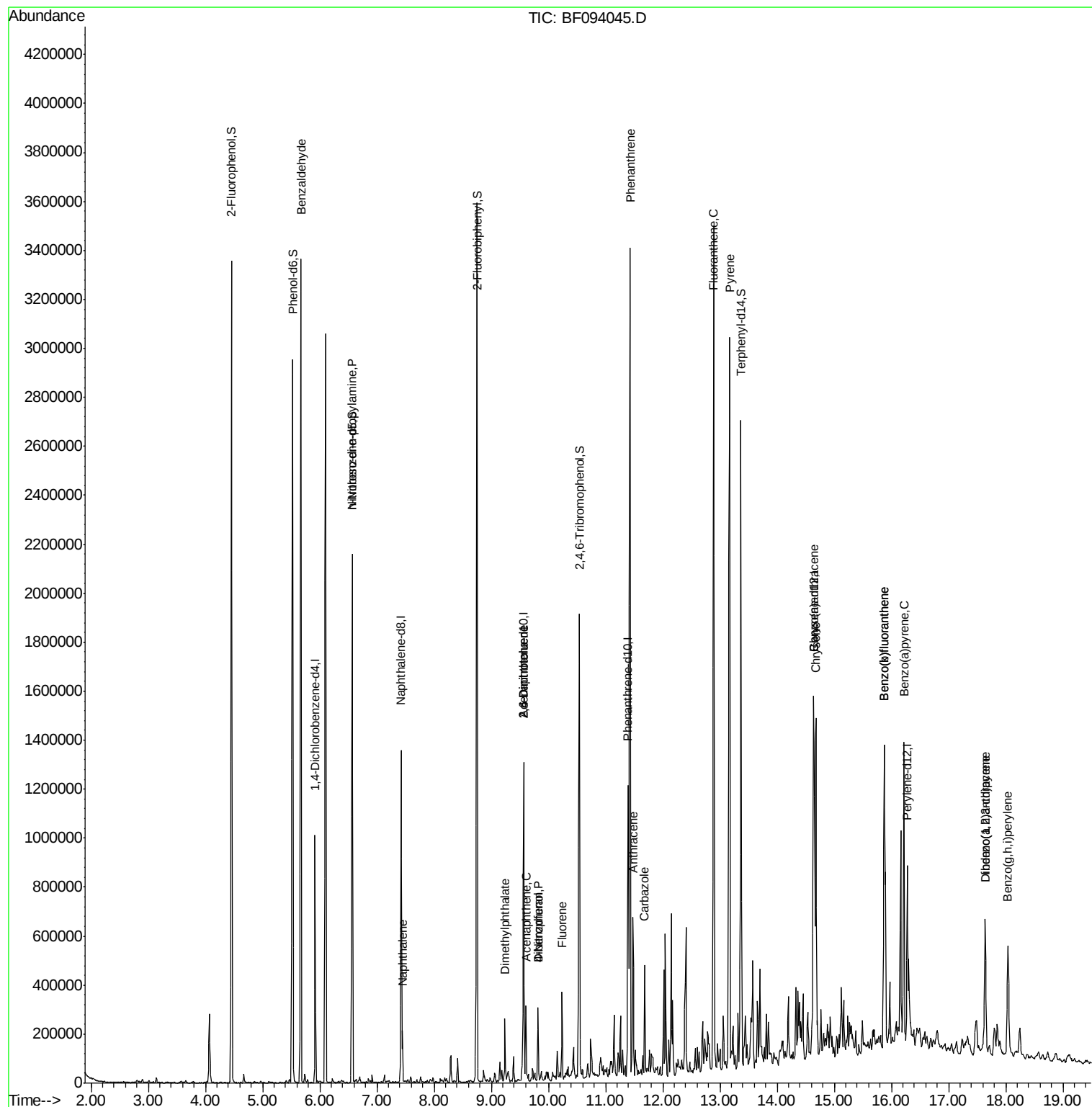
|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 9) Benzaldehyde                | 5.67  | 77  | 23760   | 2.86   | ng | 83   |
| 19) n-Nitroso-di-n-propylamine | 6.57  | 70  | 112873  | 14.27  | ng | # 78 |
| 31) Naphthalene                | 7.45  | 128 | 93550   | 2.90   | ng | 99   |
| 49) Dimethylphthalate          | 9.24  | 163 | 106849  | 5.00   | ng | 100  |
| 50) 2,6-Dinitrotoluene         | 9.56  | 165 | 40102   | 8.19   | ng | # 35 |
| 51) Acenaphthene               | 9.60  | 154 | 71237   | 3.87   | ng | 98   |
| 54) Dibenzofuran               | 9.82  | 168 | 117184  | 4.68   | ng | 98   |
| 55) 4-Nitrophenol              | 9.82  | 139 | 42344   | 9.40   | ng | # 27 |
| 56) 2,4-Dinitrotoluene         | 9.56  | 165 | 40103   | 6.52   | ng | # 34 |
| 57) Fluorene                   | 10.24 | 166 | 111806  | 5.38   | ng | 98   |
| 70) Phenanthrene               | 11.43 | 178 | 1562126 | 54.74  | ng | 99   |
| 71) Anthracene                 | 11.48 | 178 | 261626  | 8.90   | ng | 98   |
| 72) Carbazole                  | 11.68 | 167 | 188728  | 6.26   | ng | 97   |
| 74) Fluoranthene               | 12.89 | 202 | 1699066 | 58.15  | ng | 100  |
| 77) Pyrene                     | 13.17 | 202 | 1480061 | 61.11  | ng | 100  |
| 80) Benzo(a)anthracene         | 14.63 | 228 | 578326  | 29.72  | ng | 98   |
| 82) Chrysene                   | 14.68 | 228 | 621342  | 34.40  | ng | 97   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.64 | 276 | 333973  | 21.35  | ng | 96   |
| 87) Benzo(b)fluoranthene       | 15.87 | 252 | 942366  | 52.63  | ng | # 97 |
| 88) Benzo(k)fluoranthene       | 15.87 | 252 | 942366  | 53.79  | ng | 98   |
| 89) Benzo(a)pyrene             | 16.22 | 252 | 510708  | 30.97  | ng | 98   |
| 90) Dibenzo(a,h)anthracene     | 17.65 | 278 | 84615   | 6.06   | ng | 93   |
| 91) Benzo(g,h,i)perylene       | 18.04 | 276 | 318810  | 22.65  | ng | 99   |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.92 min Scan# 686

Delta R.T. -0.03 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

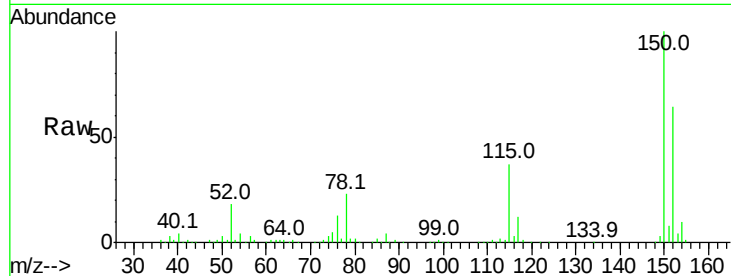
Tot Ion:152 Resp: 167997

Ion Ratio Lower Upper

152 100

150 156.0 126.2 189.2

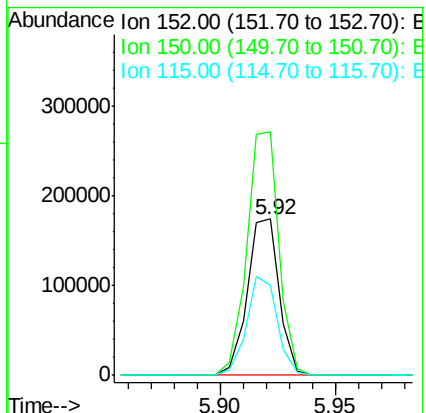
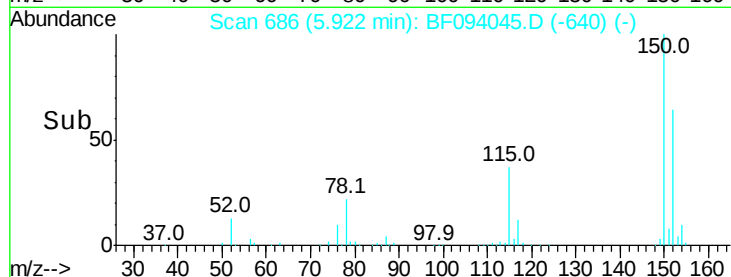
115 57.8 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 105.04 ng

RT: 4.46 min Scan# 437

Delta R.T. -0.02 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

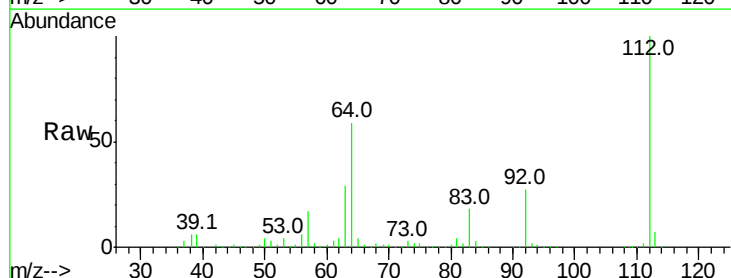
Tgt Ion:112 Resp: 1044806

Ion Ratio Lower Upper

112 100

64 58.5 46.0 69.0

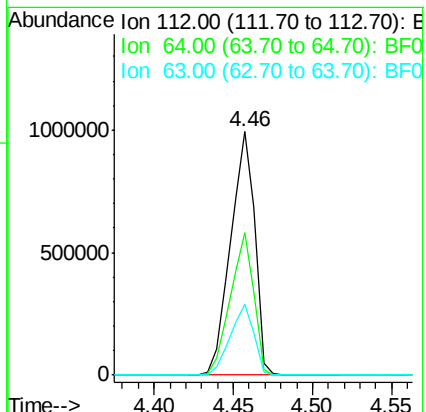
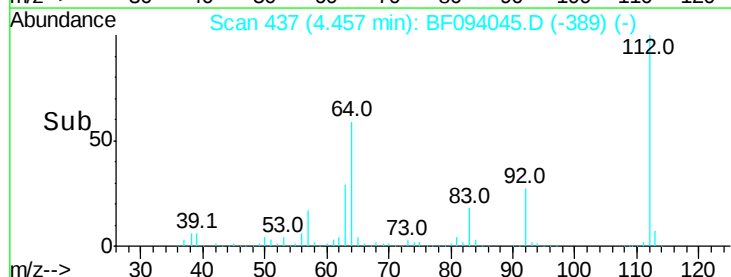
63 28.8 23.4 35.0

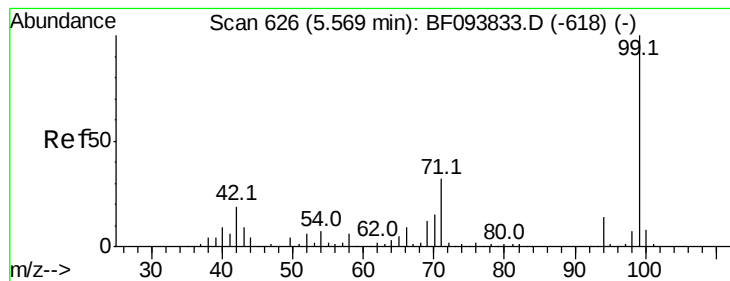


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 110.33 ng

RT: 5.53 min Scan# 619

Delta R.T. -0.02 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

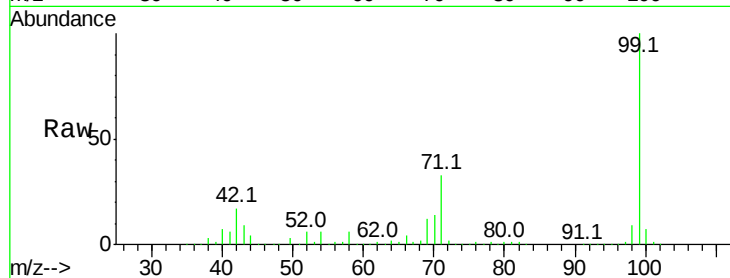
Tot Ion: 99 Resp: 1357602

Ion Ratio Lower Upper

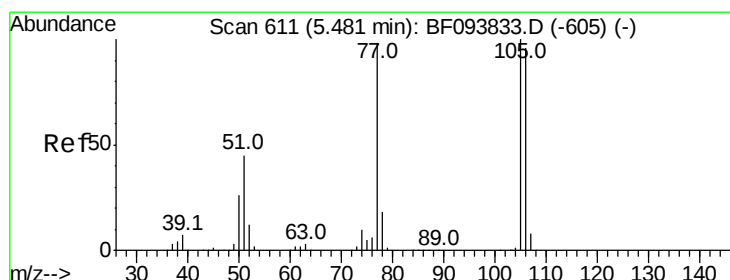
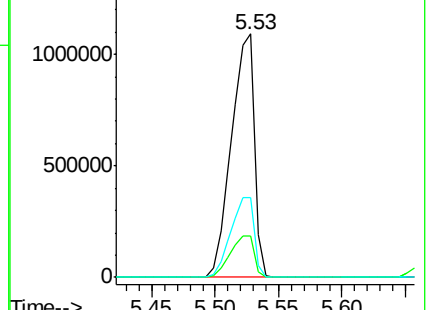
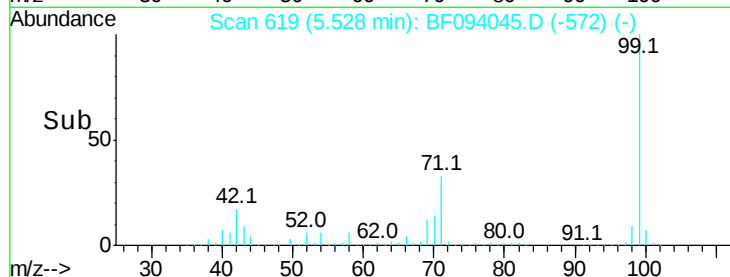
99 100

42 17.0 13.5 20.3

71 32.9 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 2.86 ng

RT: 5.67 min Scan# 643

Delta R.T. 0.22 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

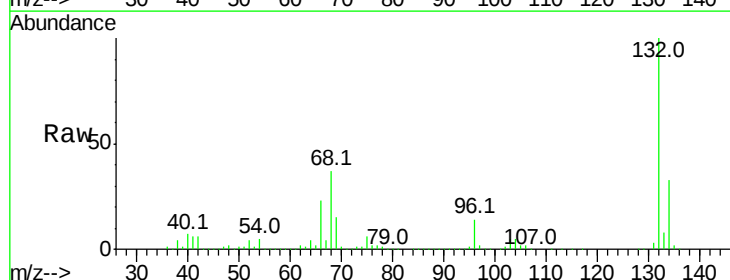
Tgt Ion: 77 Resp: 23760

Ion Ratio Lower Upper

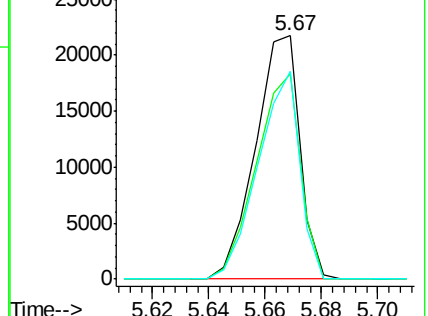
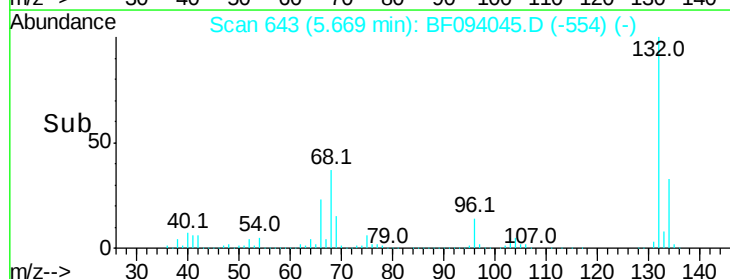
77 100

105 84.2 83.8 123.8

106 85.1 79.1 119.1



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): BF0  
Ion 106.00 (105.70 to 106.70): BF0

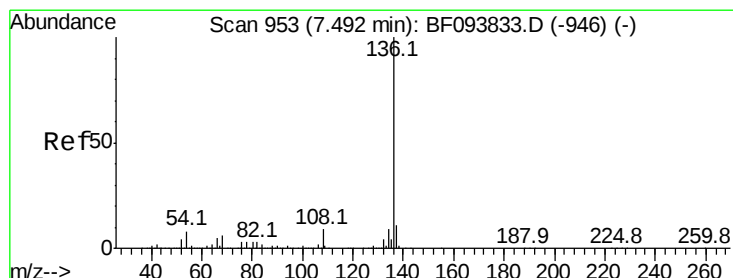
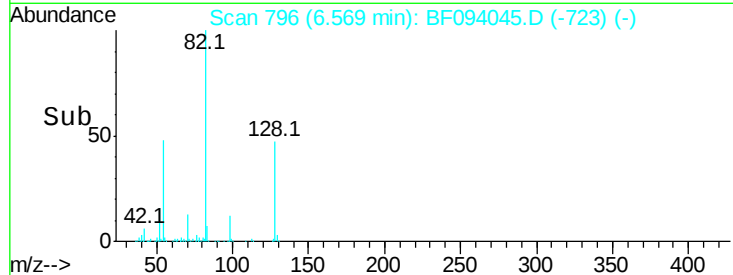
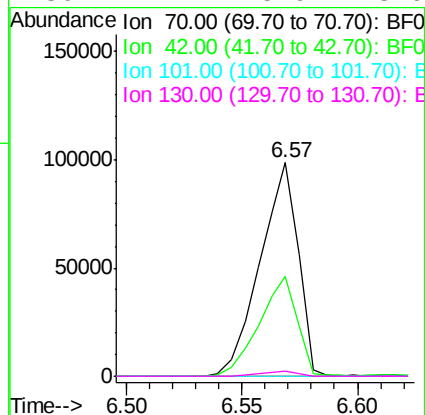
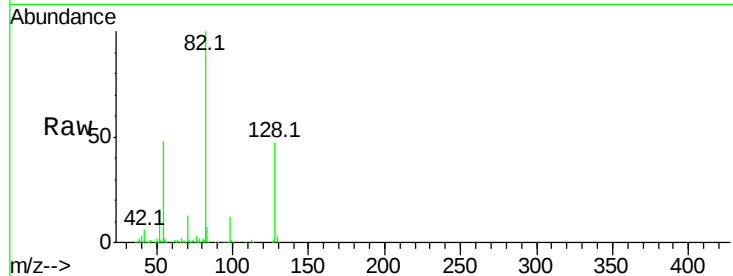




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.27 ng  
RT: 6.57 min Scan# 796  
Delta R.T. 0.13 min  
Lab File: BF094045.D  
Acq: 30 Mar 2017 5:23

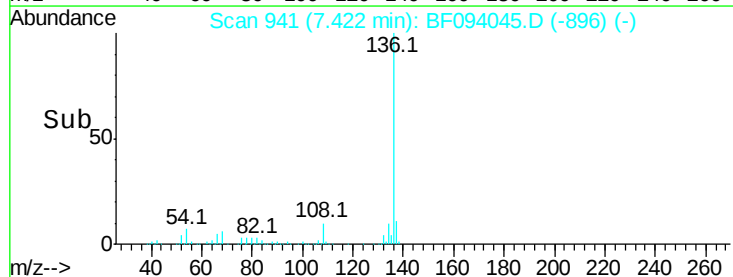
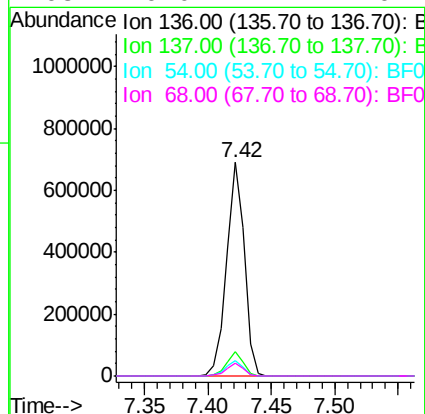
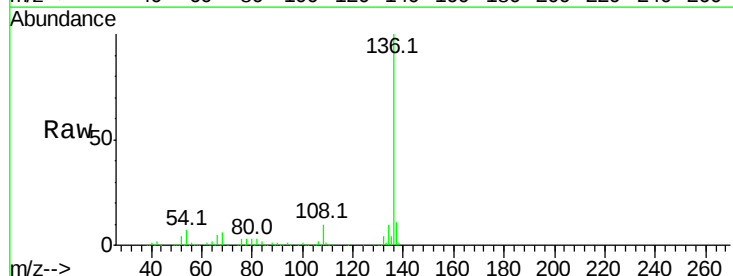
Instrument :  
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E2-P12.5-ESW

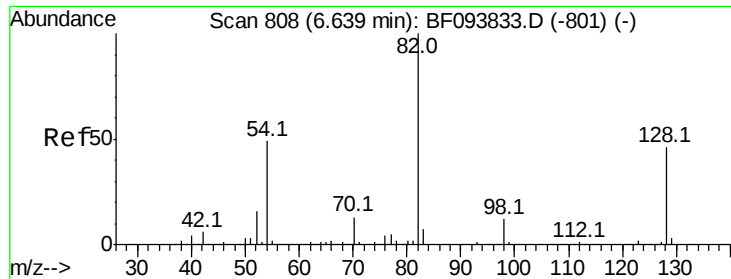
Tot Ion: 70 Resp: 112873  
Ion Ratio Lower Upper  
70 100  
42 46.9 47.2 70.8#  
101 0.0 7.2 10.8#  
130 2.2 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.42 min Scan# 941  
Delta R.T. -0.04 min  
Lab File: BF094045.D  
Acq: 30 Mar 2017 5:23

Tgt Ion: 136 Resp: 670035  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.5 12.7  
54 7.3 4.9 7.3#  
68 6.0 4.1 6.1

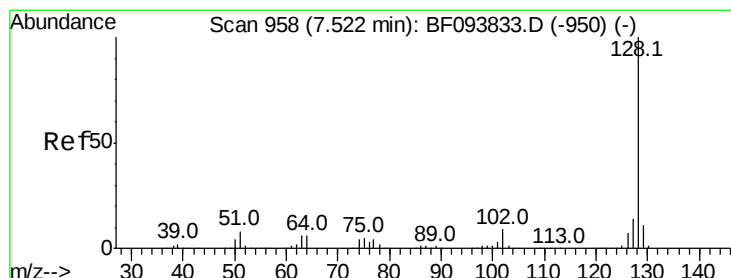
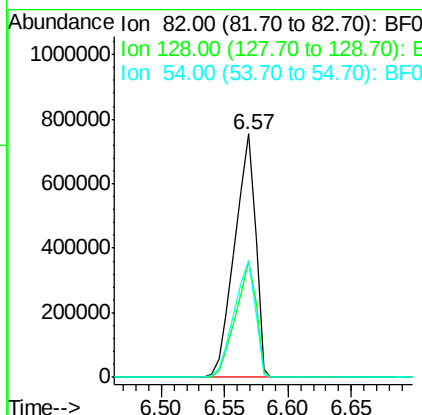
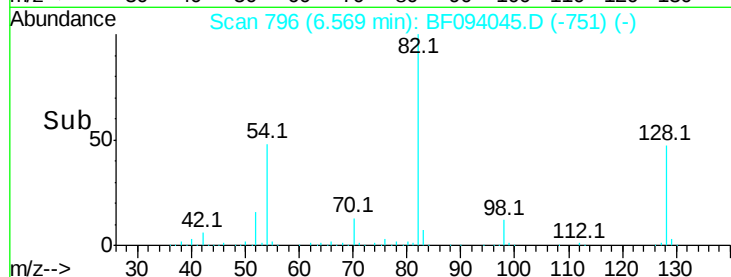
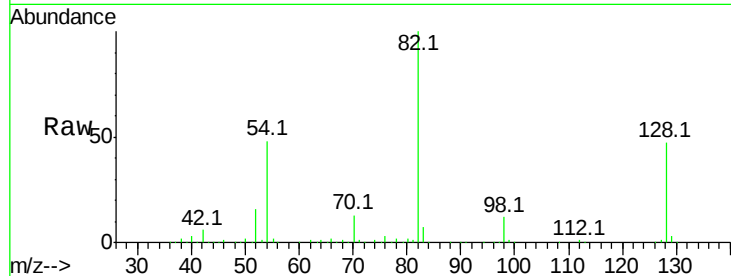




#23  
 Nitrobenzene-d5  
 Concen: 73.23 ng  
 RT: 6.57 min Scan# 796  
 Delta R.T. -0.04 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

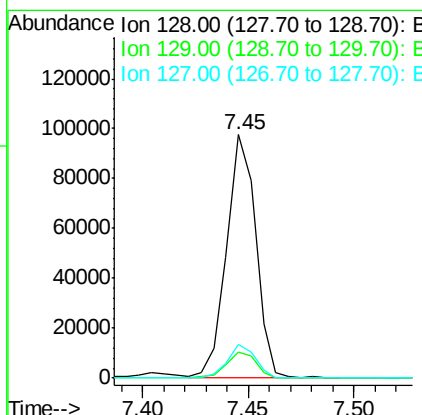
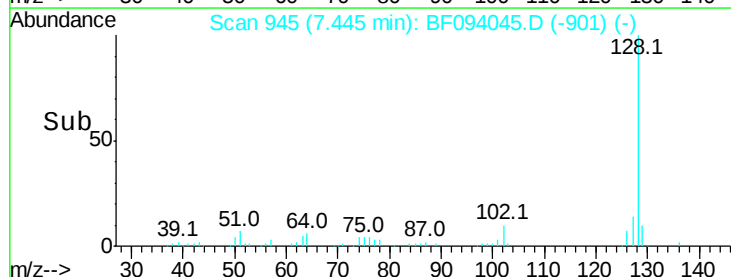
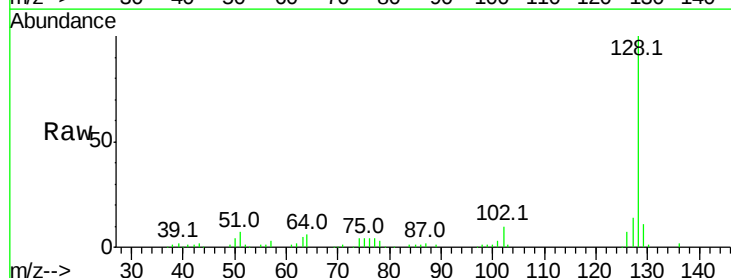
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-P12.5-ESW

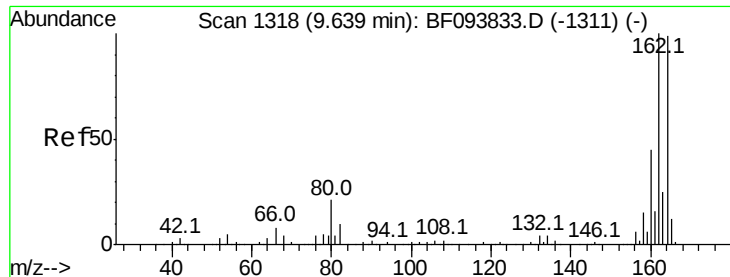
Tot Ion: 82 Resp: 859808  
 Ion Ratio Lower Upper  
 82 100  
 128 47.4 34.0 51.0  
 54 48.0 42.2 63.2



#31  
 Naphthalene  
 Concen: 2.90 ng  
 RT: 7.45 min Scan# 945  
 Delta R.T. -0.04 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

Tgt Ion: 128 Resp: 93550  
 Ion Ratio Lower Upper  
 128 100  
 129 10.9 9.0 13.6  
 127 13.9 10.8 16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 1305

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

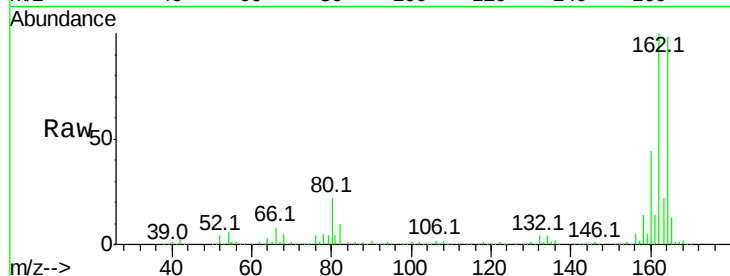
Tot Ion:164 Resp: 300599

Ion Ratio Lower Upper

164 100

162 101.6 82.6 123.8

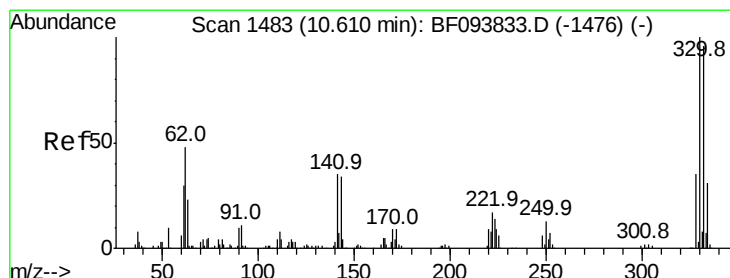
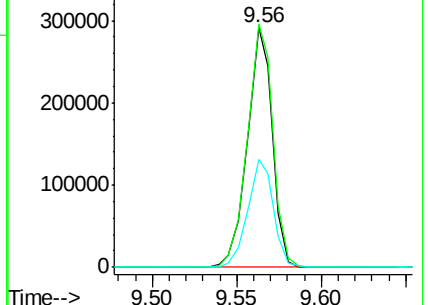
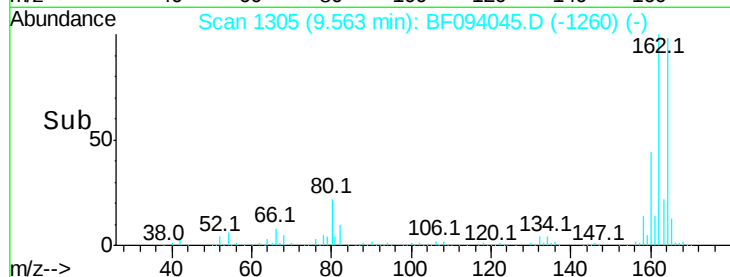
160 45.2 36.2 54.2



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



#41

2,4,6-Tribromophenol

Concen: 97.64 ng

RT: 10.54 min Scan# 1471

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

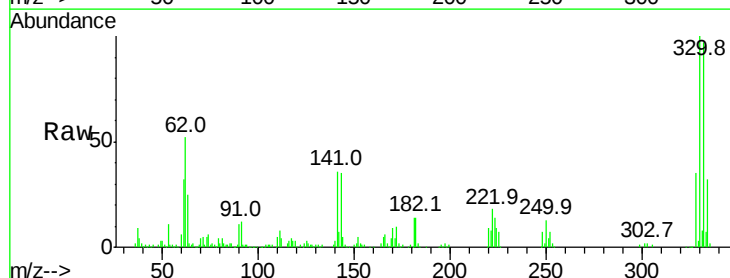
Tgt Ion:330 Resp: 231943

Ion Ratio Lower Upper

330 100

332 97.4 76.6 115.0

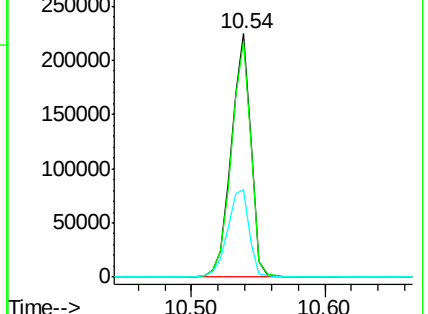
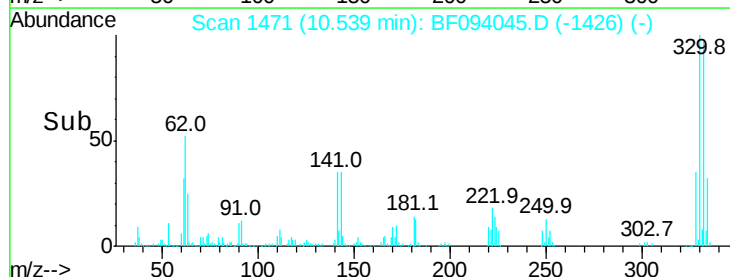
141 39.5 31.4 47.2



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



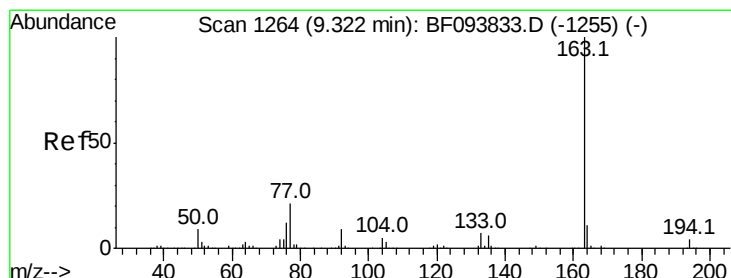
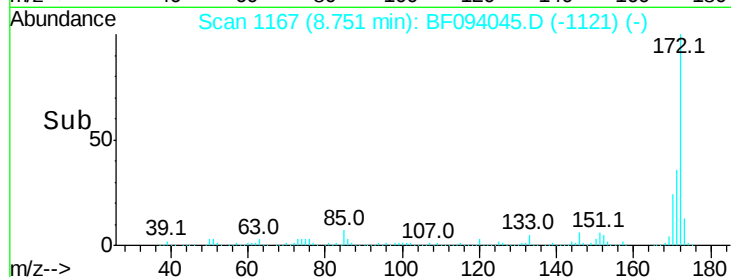
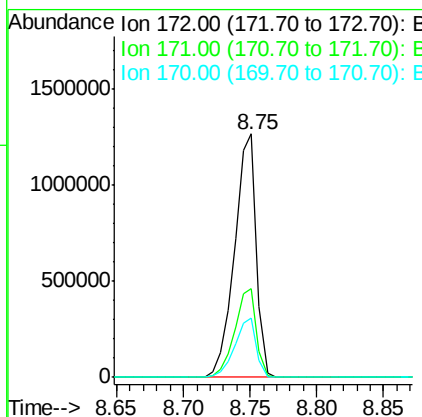
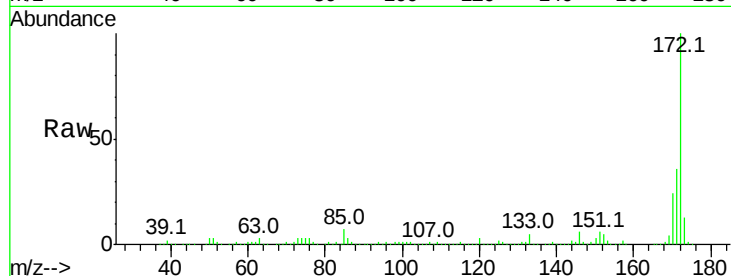


#44  
 2-Fluorobiphenyl  
 Concen: 73.29 ng  
 RT: 8.75 min Scan# 1167  
 Delta R.T. -0.03 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-P12.5-ESW

Tot Ion:172 Resp: 1444304  

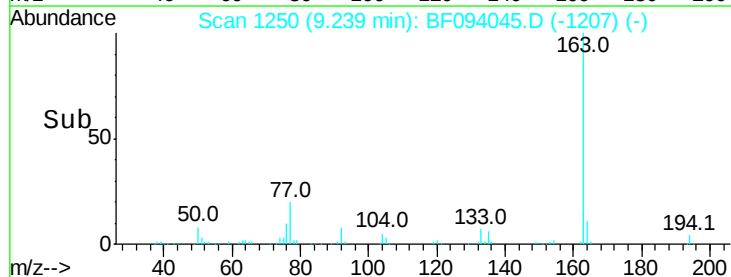
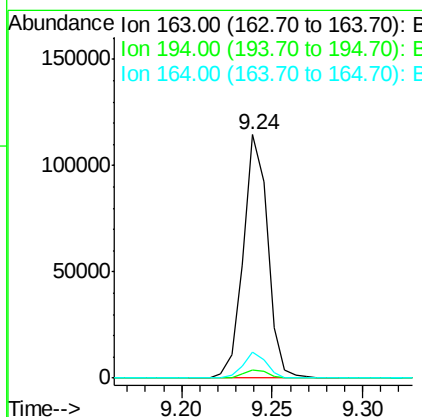
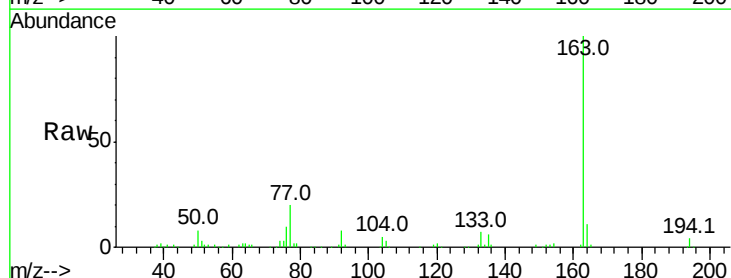
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.2  | 29.6  | 44.4  |
| 170 | 24.2  | 19.8  | 29.8  |

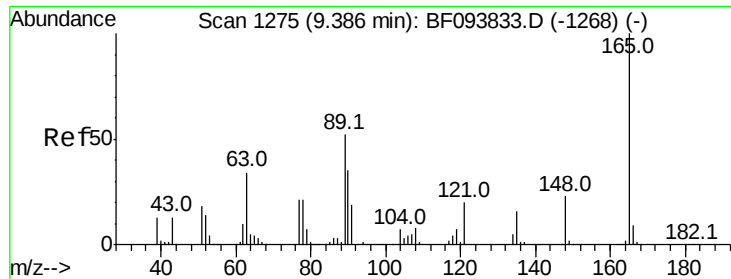


#49  
 Dimethylphthalate  
 Concen: 5.00 ng  
 RT: 9.24 min Scan# 1250  
 Delta R.T. -0.05 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

Tgt Ion:163 Resp: 106849  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 3.5   | 2.6   | 4.0   |
| 164 | 10.6  | 8.4   | 12.6  |





#50

2,6-Dinitrotoluene

Concen: 8.19 ng

RT: 9.56 min Scan# 1305

Delta R.T. 0.21 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

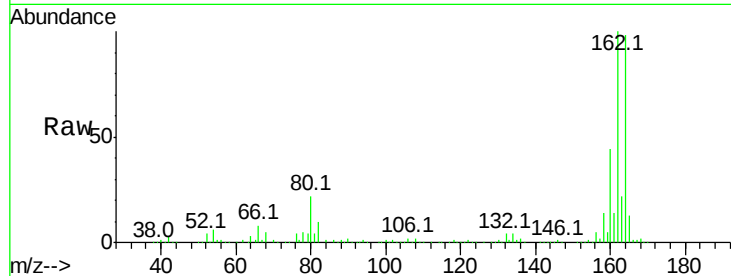
Tot Ion:165 Resp: 40102

Ion Ratio Lower Upper

165 100

63 2.3 34.3 51.5#

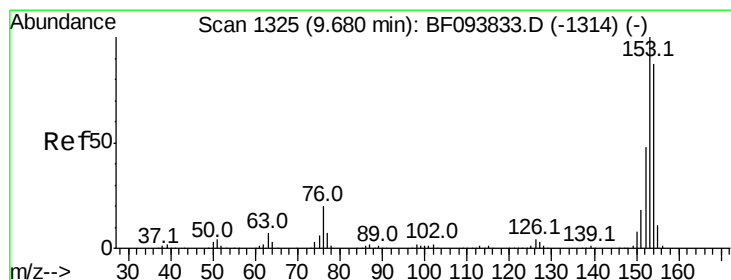
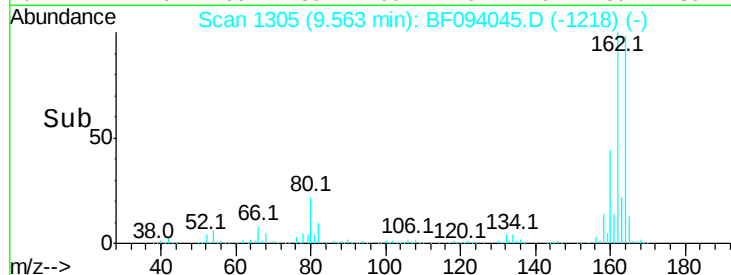
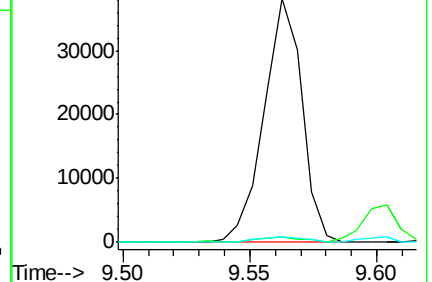
89 2.1 37.1 55.7#



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: 3.87 ng

RT: 9.60 min Scan# 1312

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

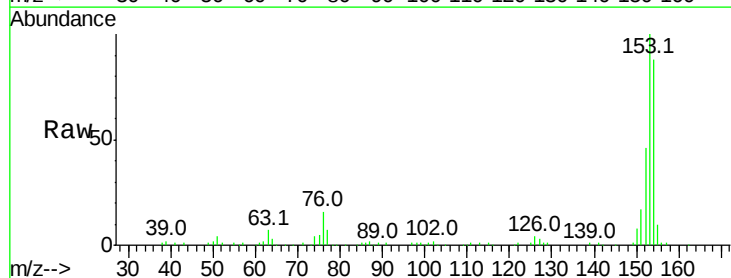
Tgt Ion:154 Resp: 71237

Ion Ratio Lower Upper

154 100

153 113.7 90.5 135.7

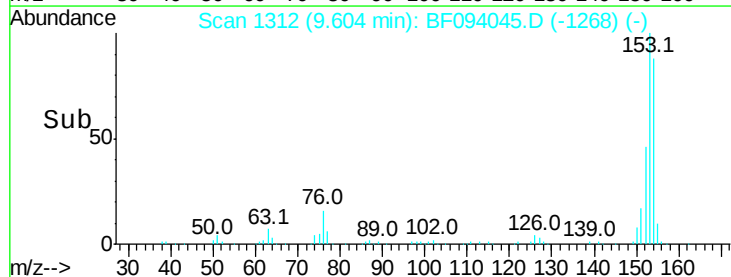
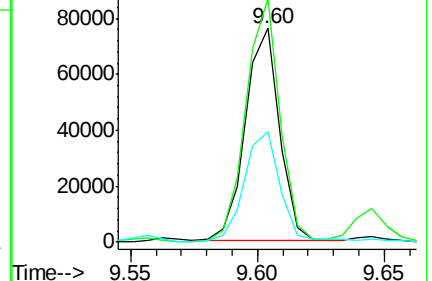
152 51.8 43.6 65.4

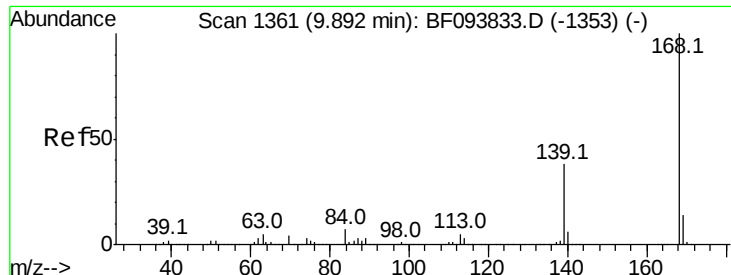


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

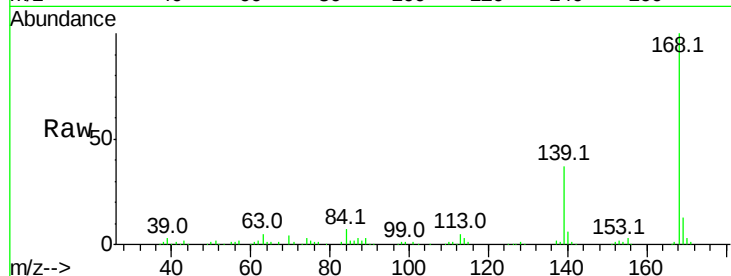




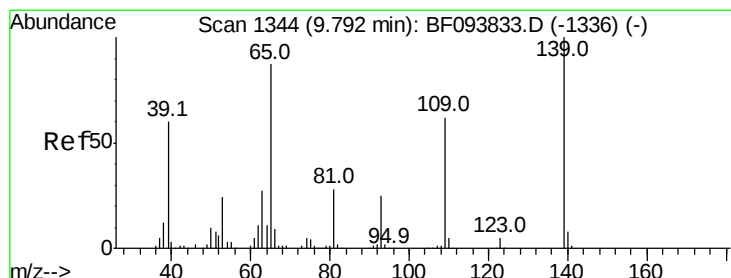
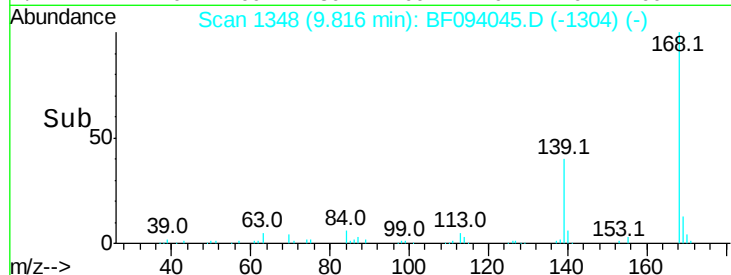
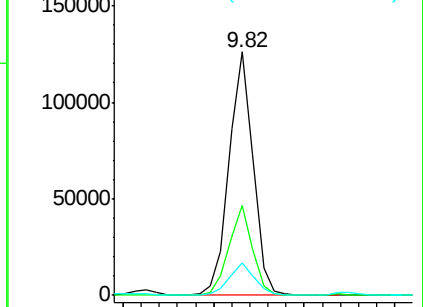
#54  
Dibenzofuran  
Concen: 4.68 ng  
RT: 9.82 min Scan# 1348  
Delta R.T. -0.04 min  
Lab File: BF094045.D  
Acq: 30 Mar 2017 5:23

Instrument :  
BNA\_F  
ClientSampleId :  
E2-P12.5-ESW

Tot Ion:168 Resp: 117184  
Ion Ratio Lower Upper  
168 100  
139 37.0 30.6 45.8  
169 13.4 10.8 16.2

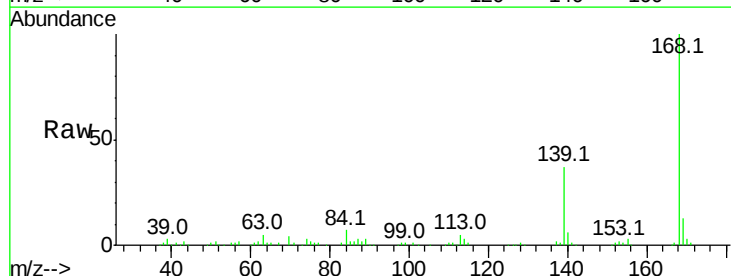


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

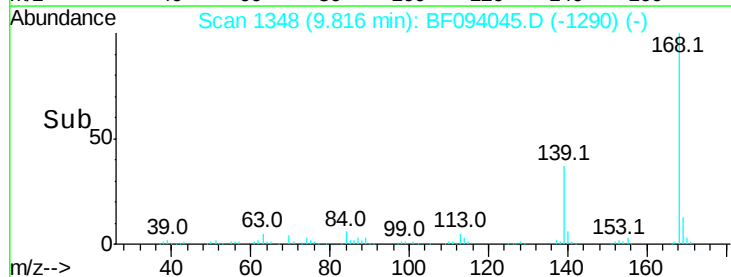
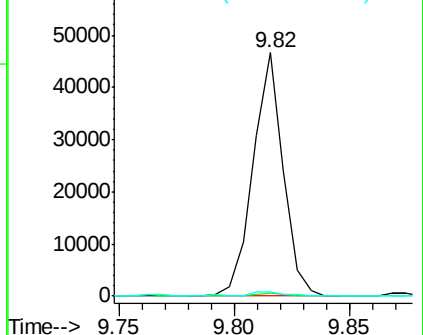


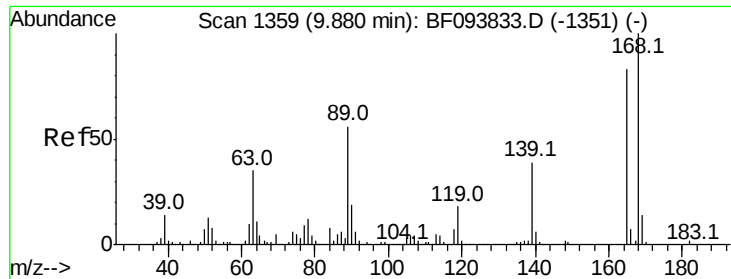
#55  
4-Nitrophenol  
Concen: 9.40 ng  
RT: 9.82 min Scan# 1348  
Delta R.T. 0.04 min  
Lab File: BF094045.D  
Acq: 30 Mar 2017 5:23

Tgt Ion:139 Resp: 42344  
Ion Ratio Lower Upper  
139 100  
109 1.0 34.1 74.1#  
65 1.5 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

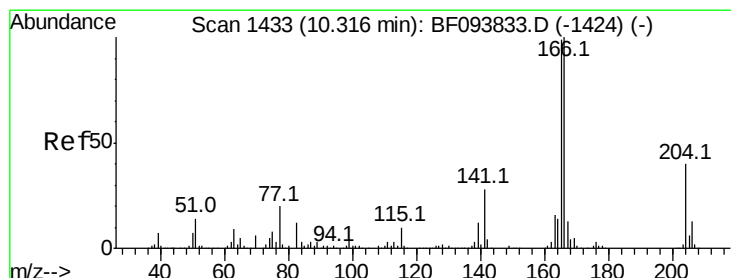
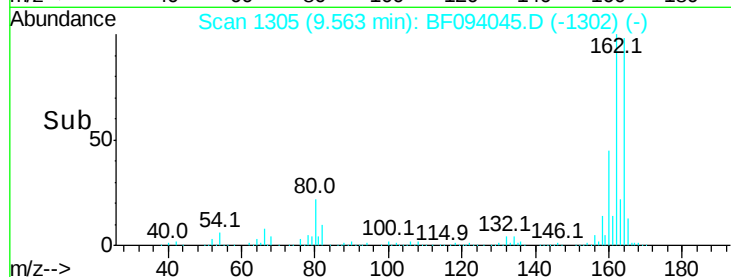
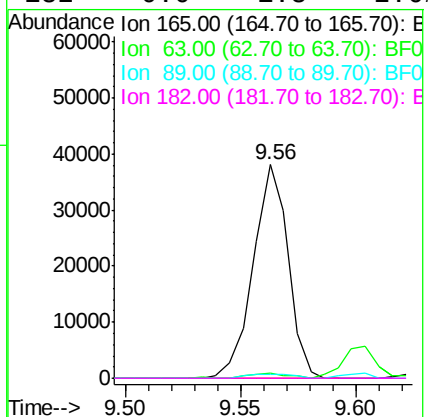
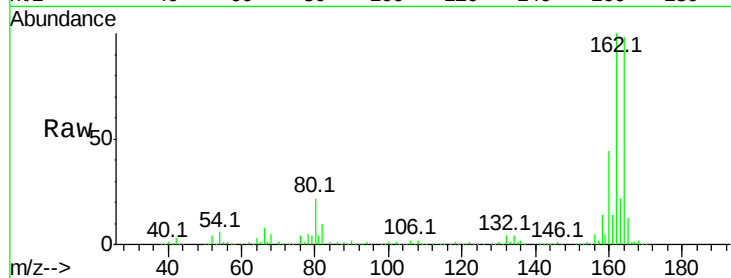




#56  
 2,4-Dinitrotoluene  
 Concen: 6.52 ng  
 RT: 9.56 min Scan# 1305  
 Delta R.T. -0.28 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

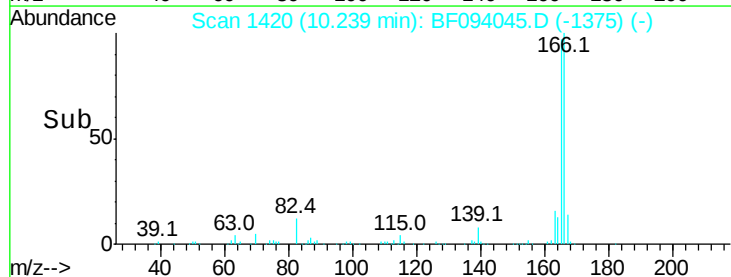
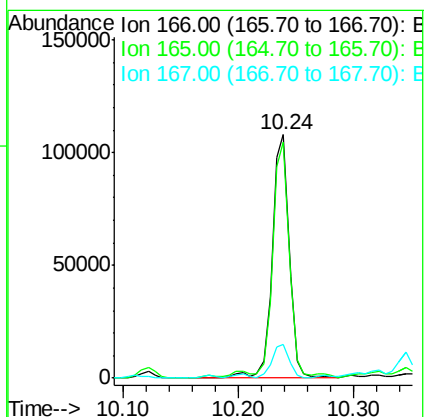
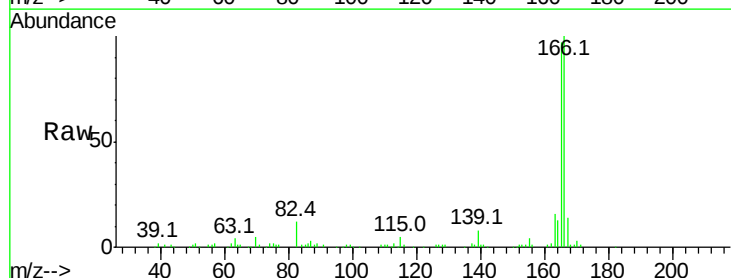
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-P12.5-ESW

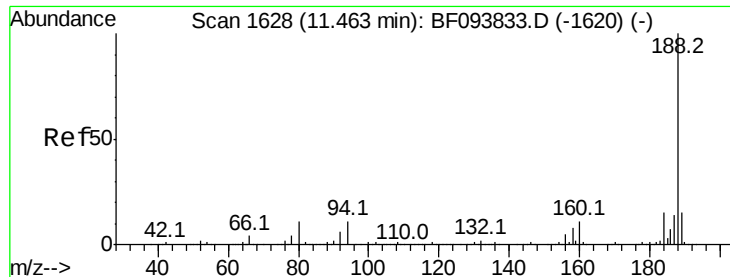
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 40103 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 2.3   | 25.4  | 38.0# |
| 89       | 2.1   | 46.4  | 69.6# |
| 182      | 0.0   | 1.8   | 2.6#  |



#57  
 Fluorene  
 Concen: 5.38 ng  
 RT: 10.24 min Scan# 1420  
 Delta R.T. -0.04 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 111806 |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 96.8  | 78.8  | 118.2  |
| 167      | 13.9  | 10.6  | 16.0   |

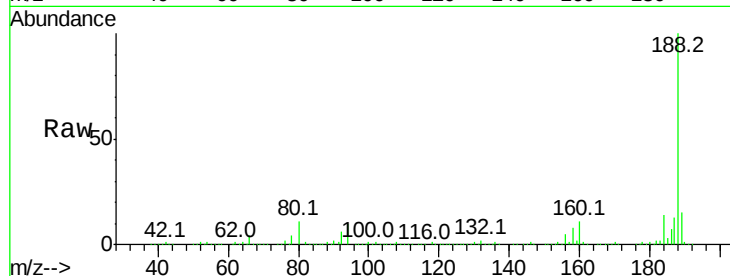




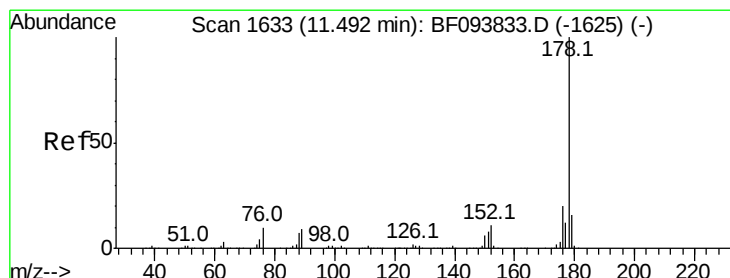
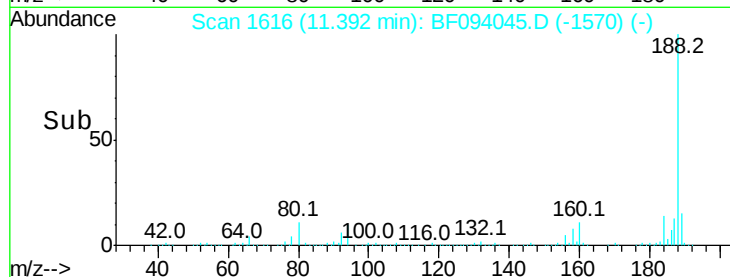
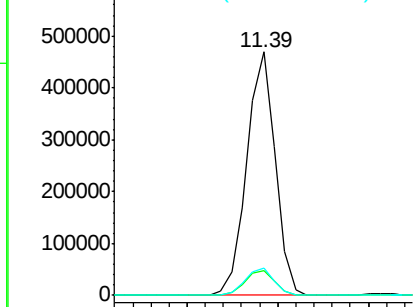
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 1616  
Delta R.T. -0.03 min  
Lab File: BF094045.D  
Acq: 30 Mar 2017 5:23

Instrument :  
BNA\_F  
ClientSampleId :  
E2-P12.5-ESW

Tot Ion:188 Resp: 512992  
Ion Ratio Lower Upper  
188 100  
94 10.2 9.4 14.2  
80 11.3 10.2 15.2

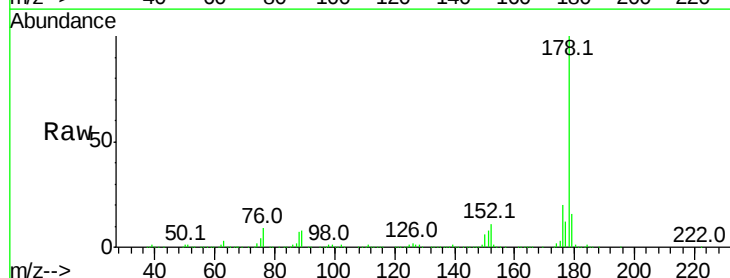


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

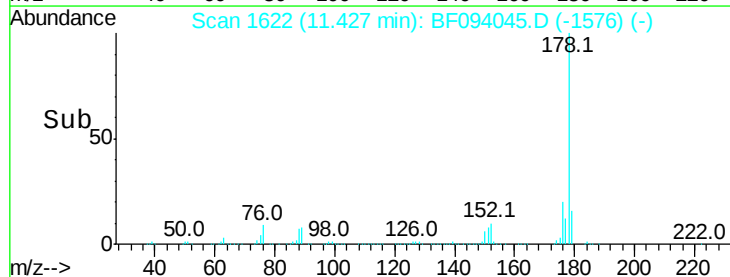
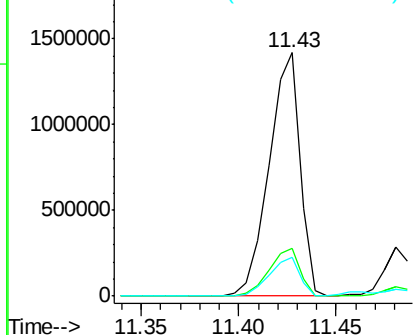


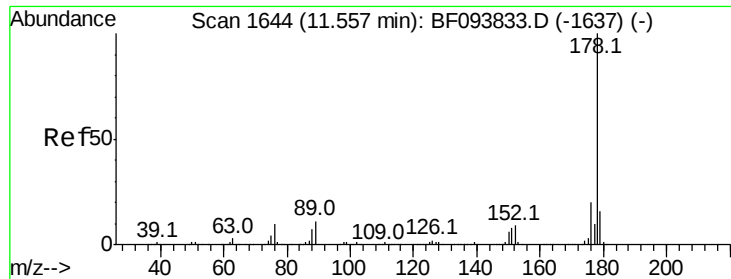
#70  
Phenanthrene  
Concen: 54.74 ng  
RT: 11.43 min Scan# 1622  
Delta R.T. -0.03 min  
Lab File: BF094045.D  
Acq: 30 Mar 2017 5:23

Tgt Ion:178 Resp: 1562126  
Ion Ratio Lower Upper  
178 100  
176 19.6 16.2 24.4  
179 15.8 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

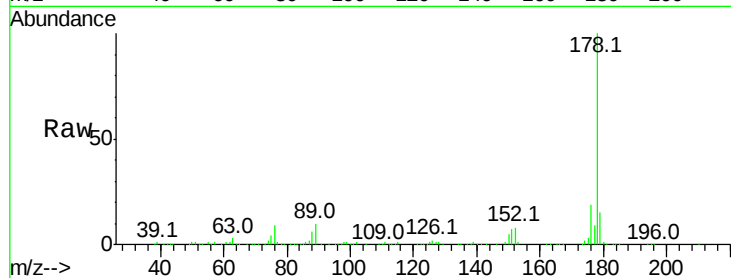




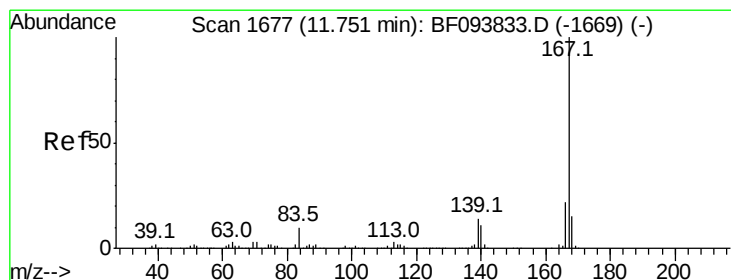
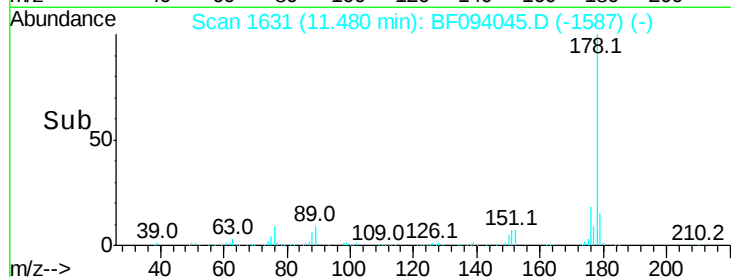
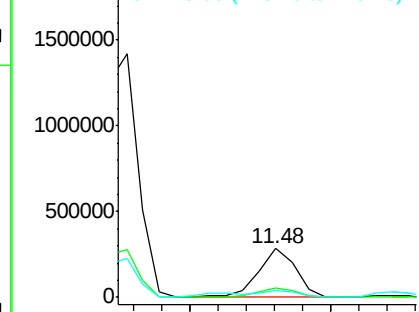
#71  
 Anthracene  
 Concen: 8.90 ng  
 RT: 11.48 min Scan# 1631  
 Delta R.T. -0.04 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-P12.5-ESW

Tot Ion:178 Resp: 261626  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 15.8 23.8  
 179 15.2 12.7 19.1

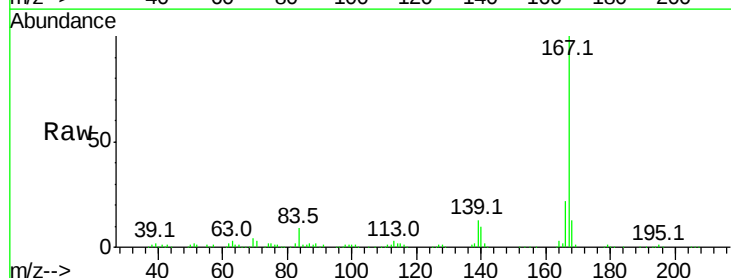


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

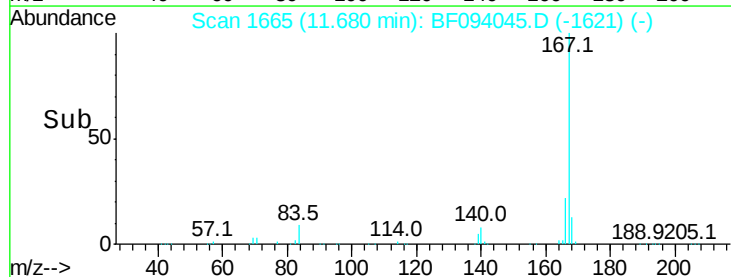
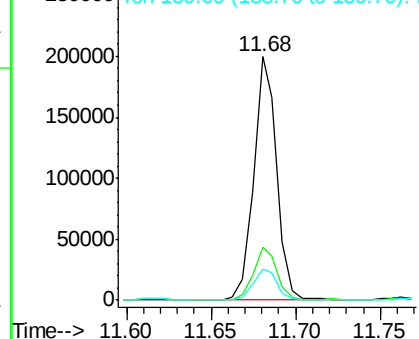


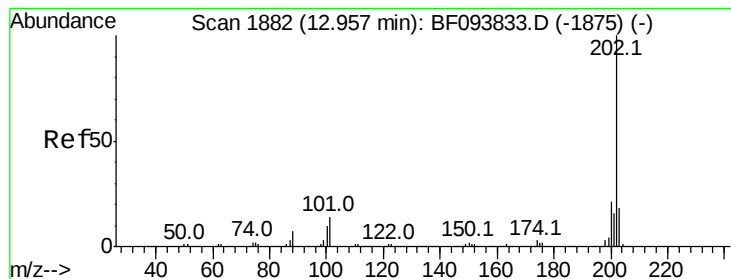
#72  
 Carbazole  
 Concen: 6.26 ng  
 RT: 11.68 min Scan# 1665  
 Delta R.T. -0.04 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

Tgt Ion:167 Resp: 188728  
 Ion Ratio Lower Upper  
 167 100  
 166 21.8 18.1 27.1  
 139 12.9 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: 58.15 ng

RT: 12.89 min Scan# 1871

Delta R.T. -0.03 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

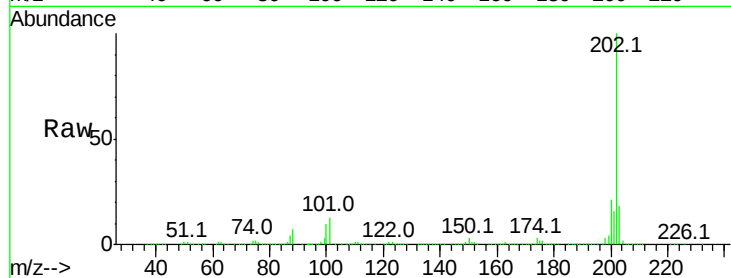
Tot Ion:202 Resp: 1699066

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

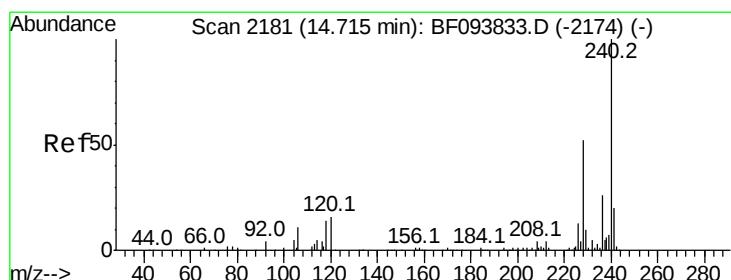
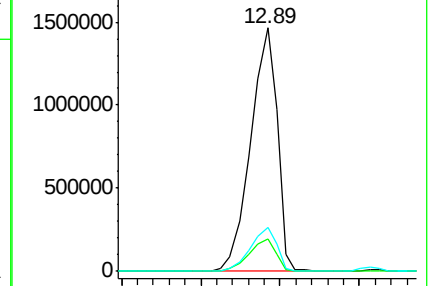
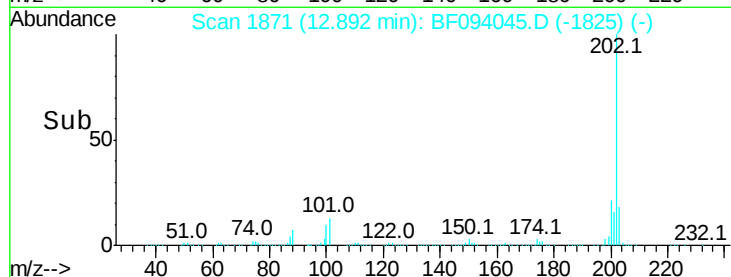
203 18.0 0.0 38.1



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: 14.64 min Scan# 2169

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

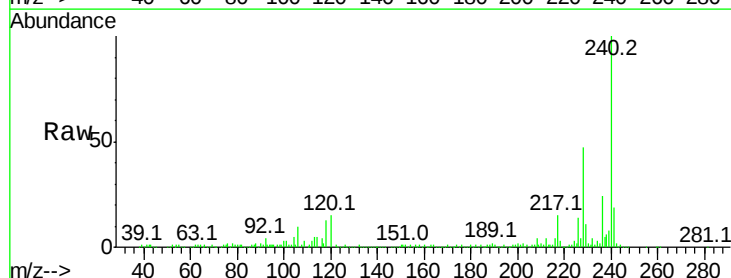
Tgt Ion:240 Resp: 333747

Ion Ratio Lower Upper

240 100

120 14.9 5.8 8.8#

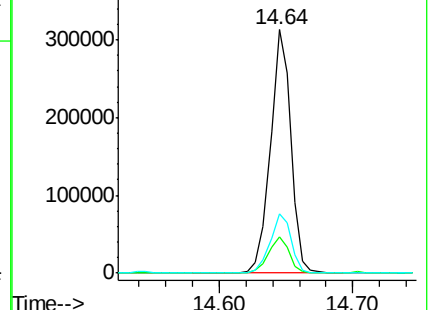
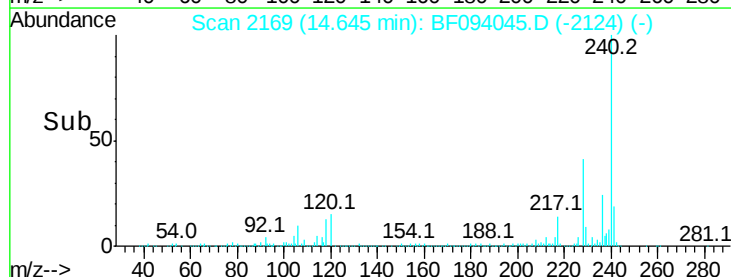
236 24.2 20.5 30.7

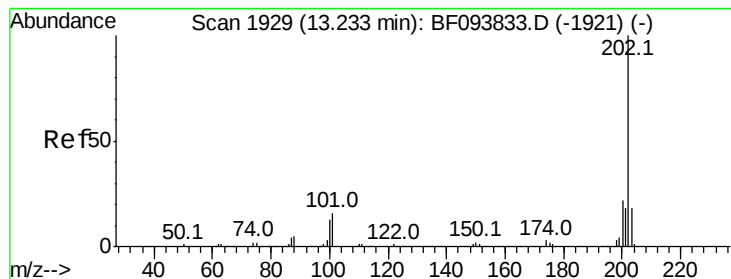


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 61.11 ng

RT: 13.17 min Scan# 1918

Delta R.T. -0.03 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

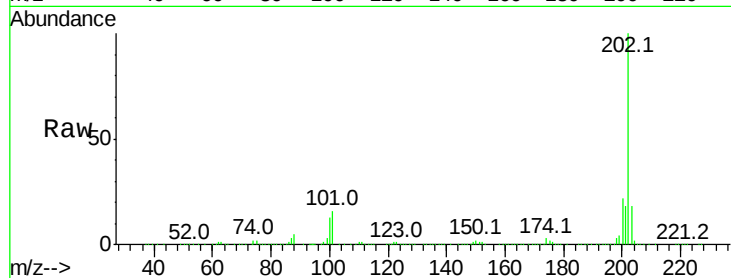
Tot Ion:202 Resp: 1480061

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

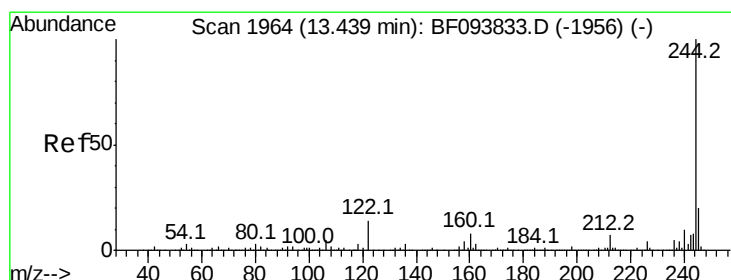
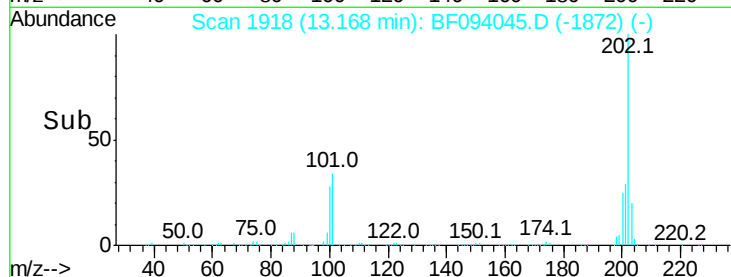
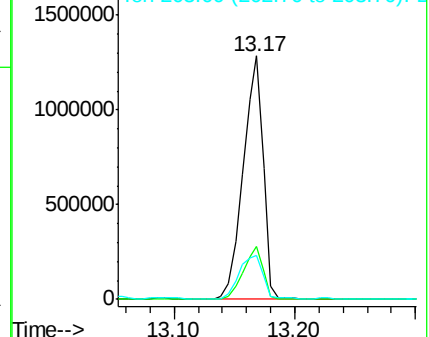
203 17.8 14.4 21.6



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: 65.92 ng

RT: 13.37 min Scan# 1952

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

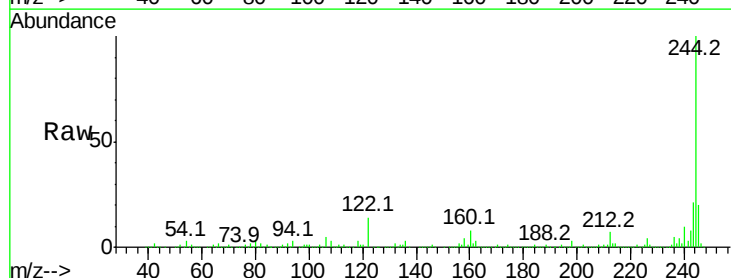
Tgt Ion:244 Resp: 981463

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

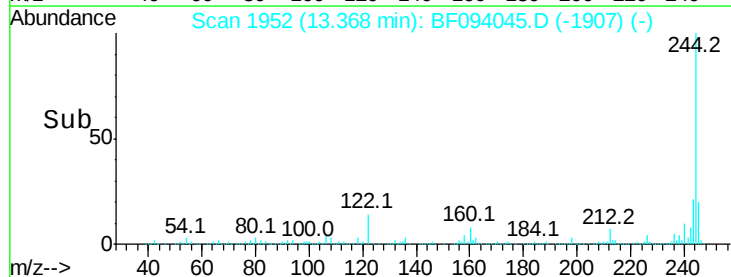
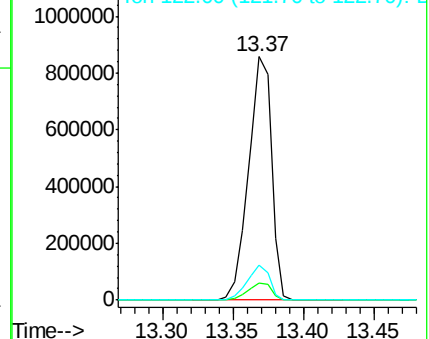
122 14.4 10.3 15.5

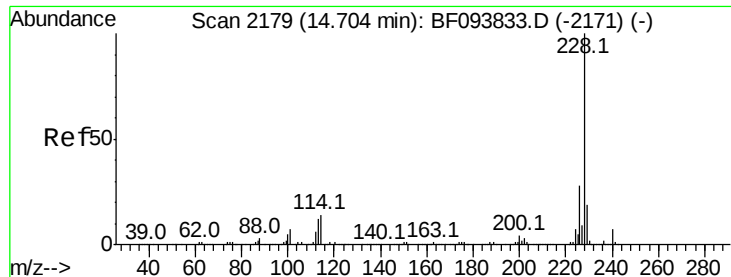


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 29.72 ng

RT: 14.63 min Scan# 2167

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

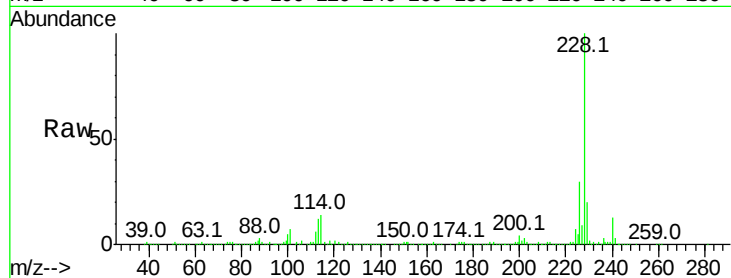
Tot Ion:228 Resp: 578326

Ion Ratio Lower Upper

228 100

226 29.7 22.6 33.8

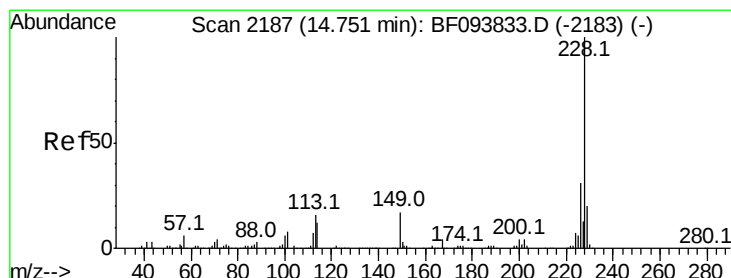
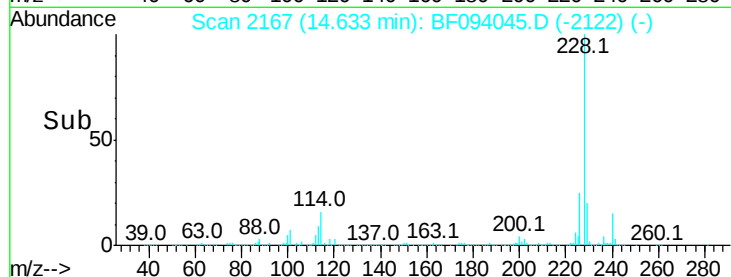
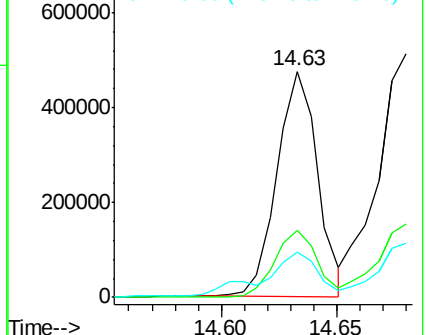
229 20.0 16.3 24.5



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: 34.40 ng

RT: 14.68 min Scan# 2175

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

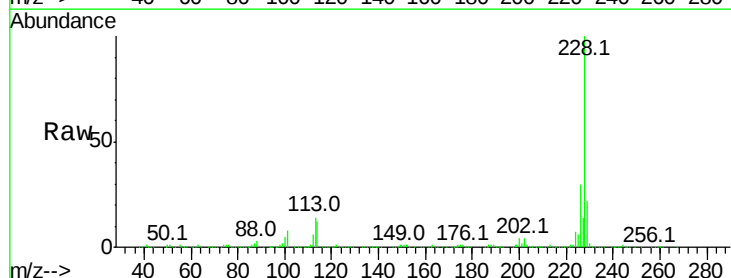
Tgt Ion:228 Resp: 621342

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

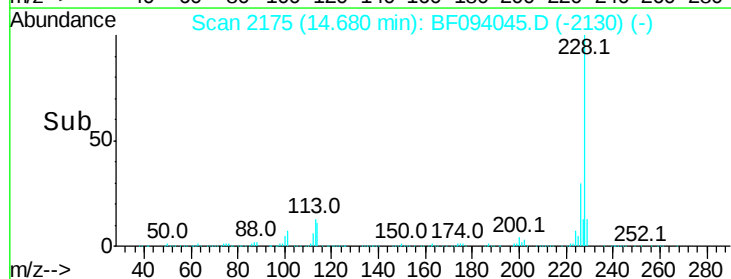
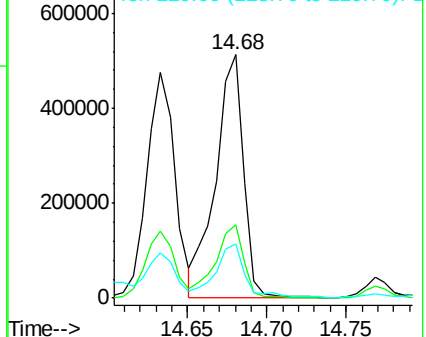
229 22.2 15.8 23.6

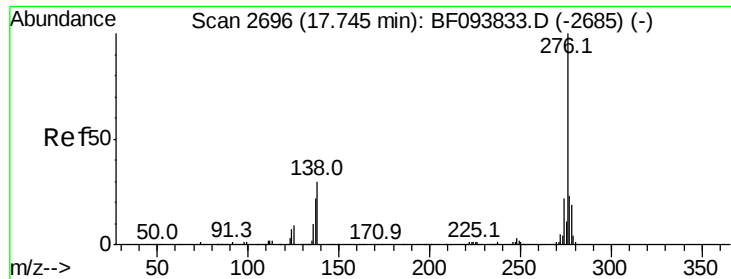


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

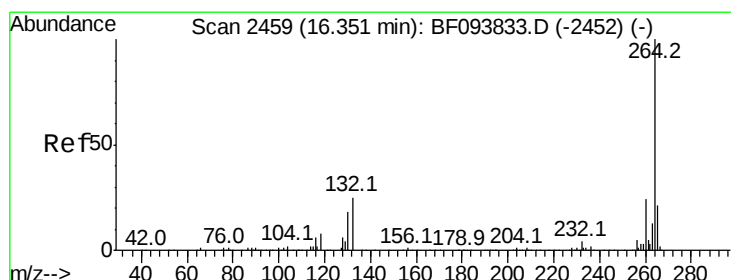
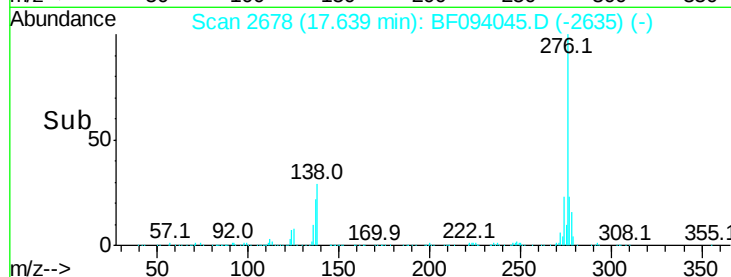
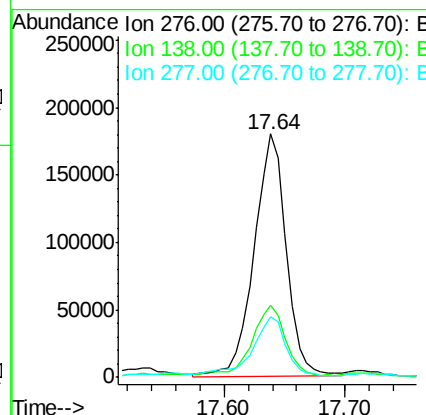
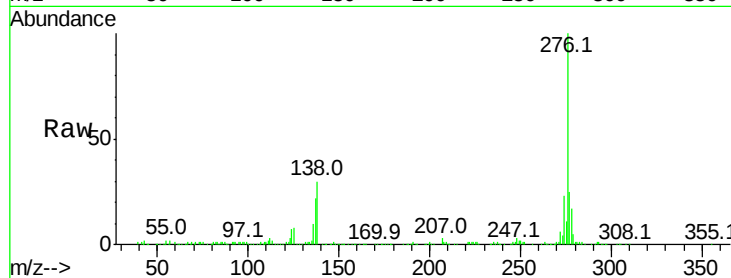




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 21.35 ng  
 RT: 17.64 min Scan# 2678  
 Delta R.T. -0.05 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

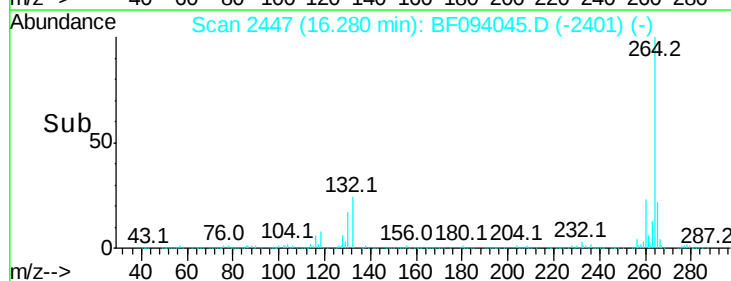
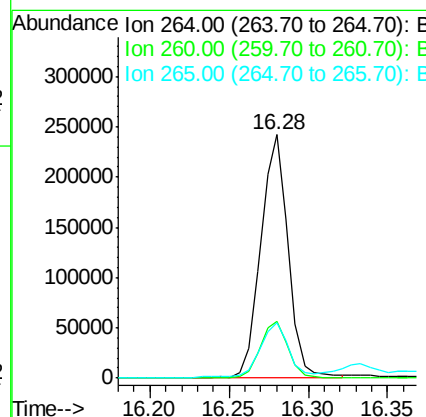
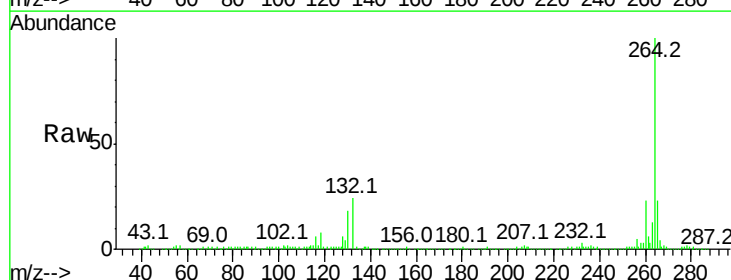
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-P12.5-ESW

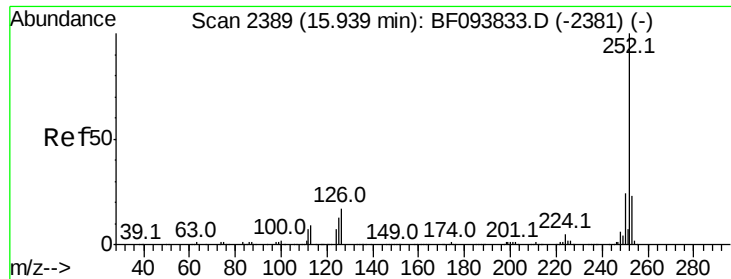
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.4  | 27.8  | 41.6  |
| 277     | 26.4  | 20.2  | 30.4  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.28 min Scan# 2447  
 Delta R.T. -0.03 min  
 Lab File: BF094045.D  
 Acq: 30 Mar 2017 5:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.5  | 29.3  |
| 265     | 22.6  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 52.63 ng

RT: 15.87 min Scan# 2378

Delta R.T. -0.02 min

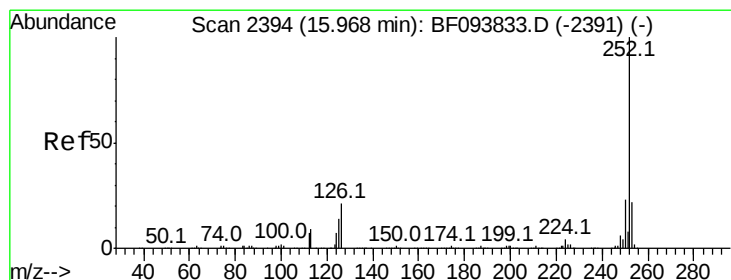
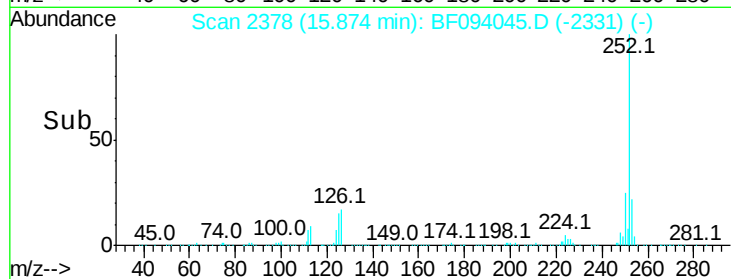
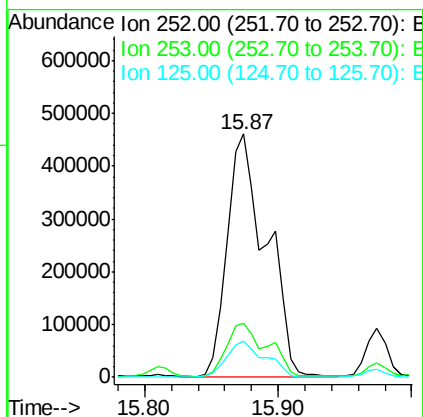
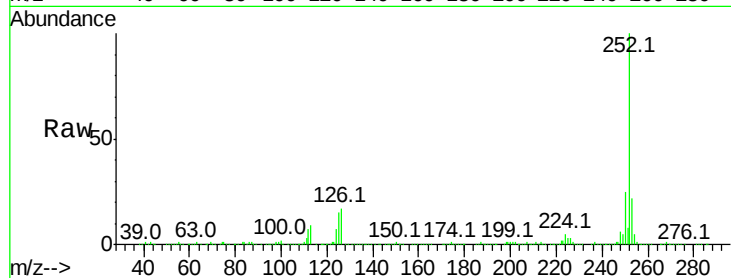
Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :  
BNA\_F  
ClientSampleId :  
E2-P12.5-ESW

Tot Ion:252 Resp: 942366

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.5  | 18.1  | 27.1  |
| 125 | 15.1  | 9.8   | 14.8# |



#88

Benzo(k)fluoranthene

Concen: 53.79 ng

RT: 15.87 min Scan# 2378

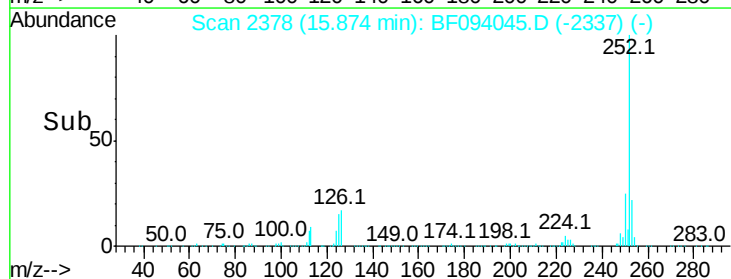
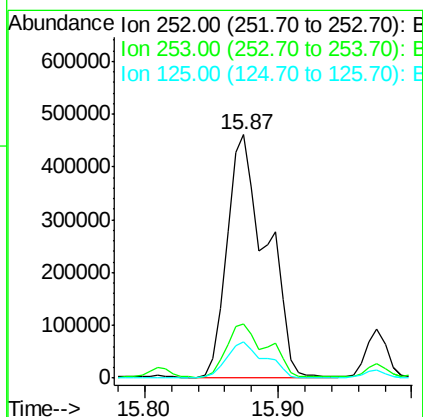
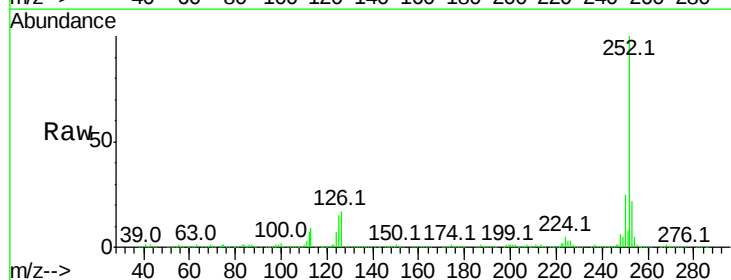
Delta R.T. -0.06 min

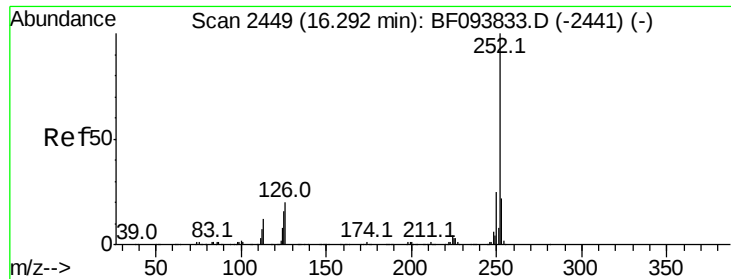
Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Tgt Ion:252 Resp: 942366

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.5  | 18.4  | 27.6  |
| 125 | 15.1  | 13.1  | 19.7  |





#89

Benzo(a)pyrene

Concen: 30.97 ng

RT: 16.22 min Scan# 2437

Delta R.T. -0.03 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

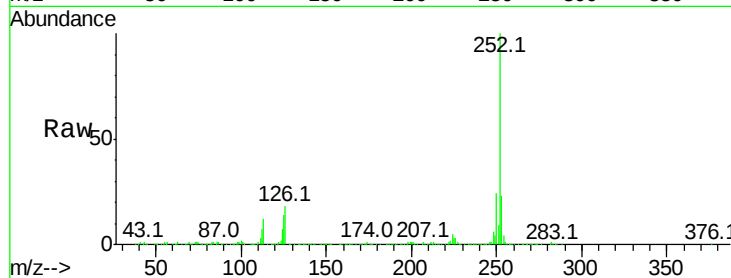
Tot Ion:252 Resp: 510708

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

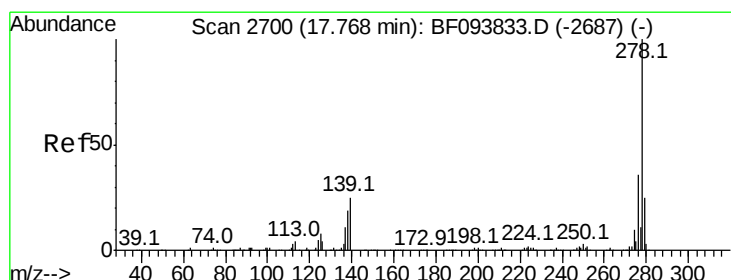
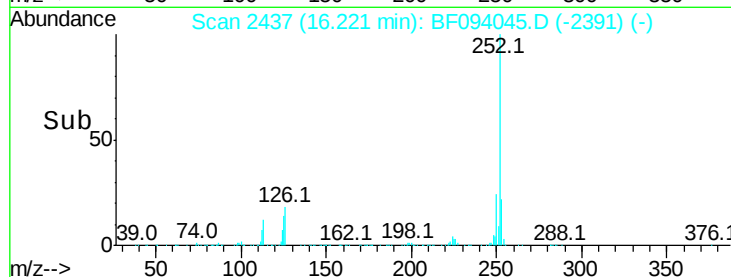
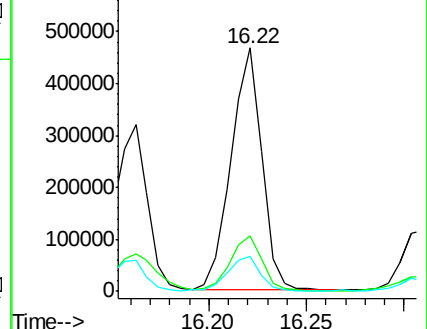
125 14.2 11.0 16.4



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



#90

Dibenzo(a,h)anthracene

Concen: 6.06 ng

RT: 17.65 min Scan# 2680

Delta R.T. -0.06 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

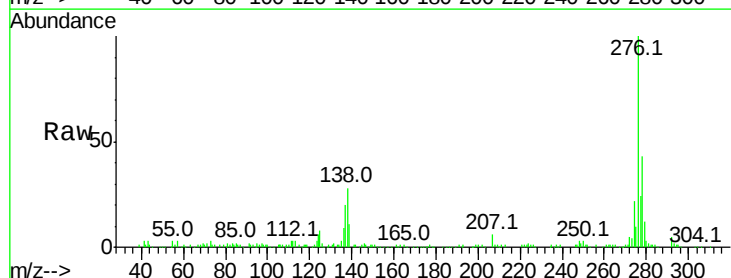
Tgt Ion:278 Resp: 84615

Ion Ratio Lower Upper

278 100

139 24.2 16.6 24.8

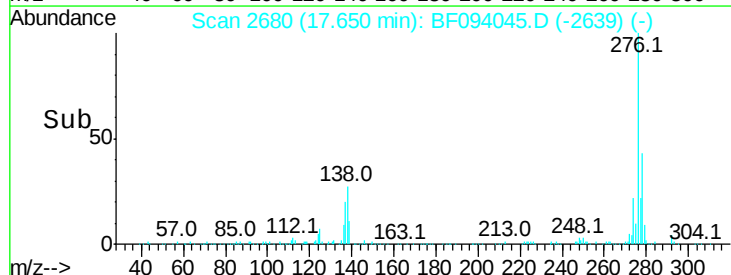
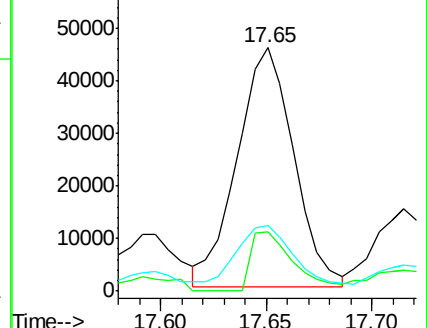
279 27.1 19.3 28.9

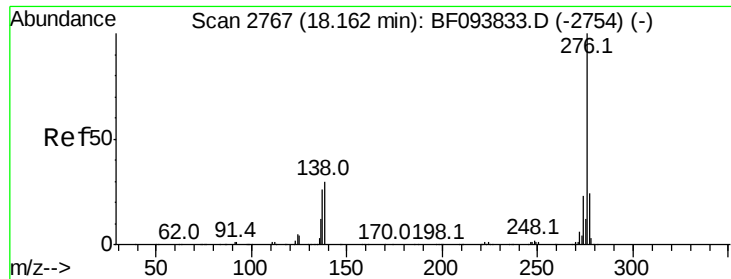


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 22.65 ng

RT: 18.04 min Scan# 2746

Delta R.T. -0.06 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA\_F

ClientSampleId :

E2-P12.5-ESW

Tot Ion:276 Resp: 318810

Ion Ratio Lower Upper

276 100

277 24.5 18.6 28.0

138 31.8 25.4 38.0

