

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070317\  
 Data File : BF096461.D  
 Acq On : 4 Jul 2017 1:52  
 Operator : SJ/MA  
 Sample : I3998-05  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 04 03:48:27 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 01:43:12 2017  
 Response via : Initial Calibration

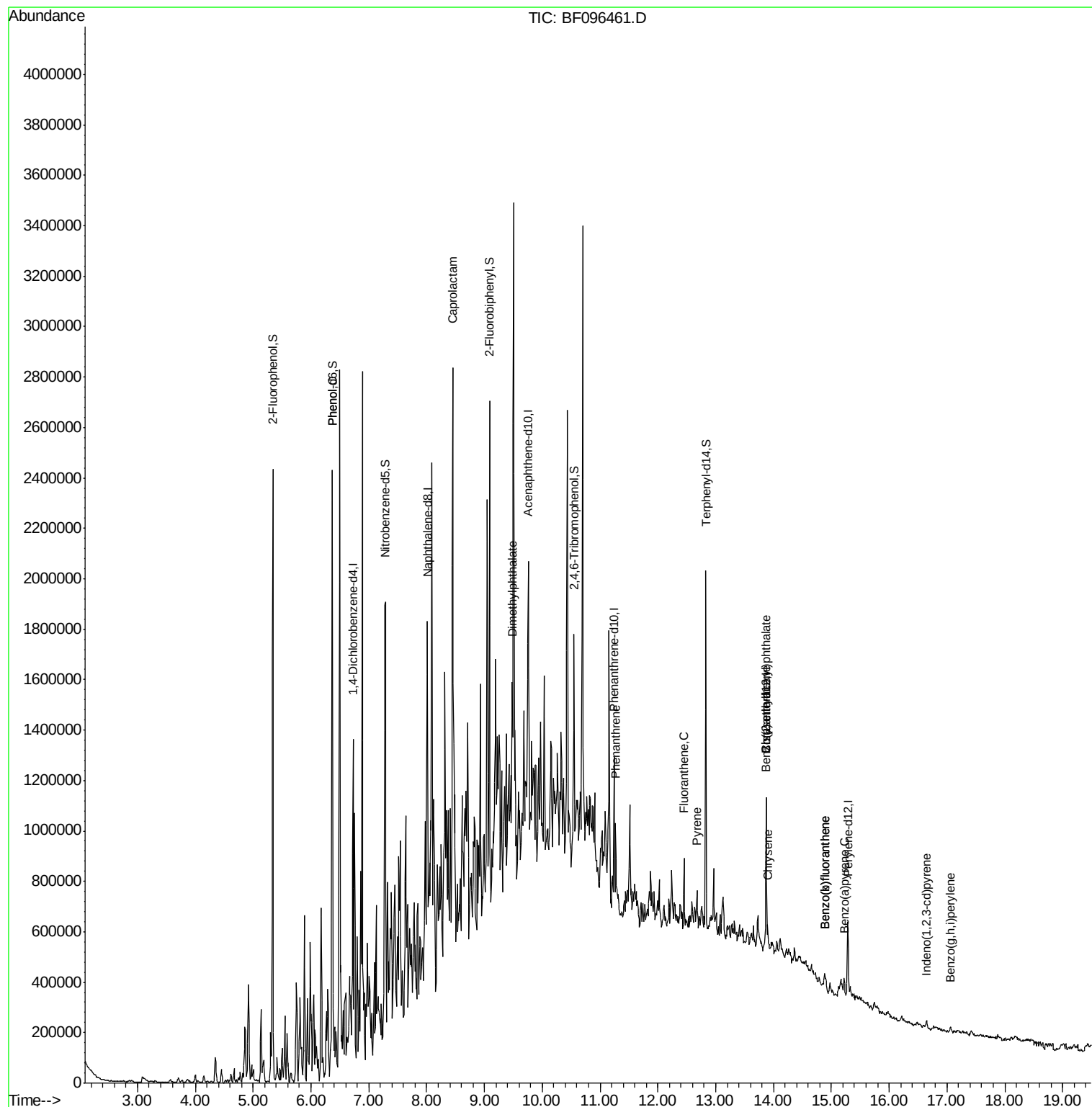
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 111464   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.01  | 136  | 378625   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.76  | 164  | 147092   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.25 | 188  | 210845   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 13.87 | 240  | 181259   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.29 | 264  | 135002   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 675434   | 89.44 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.37  | 99   | 827113   | 89.09 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 433369   | 68.78 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 107428   | 93.50 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 594695   | 69.13 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.83 | 244  | 428481   | 50.51 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 10) Phenol                     | 6.37  | 94   | 41580    | 3.93  | ng    | 99       |
| 35) Caprolactam                | 8.45  | 113  | 38597    | 21.78 | ng    | # 1      |
| 49) Dimethylphthalate          | 9.48  | 163  | 195753   | 17.83 | ng    | # 98     |
| 70) Phenanthrene               | 11.27 | 178  | 60714    | 5.33  | ng    | # 95     |
| 74) Fluoranthene               | 12.45 | 202  | 79158    | 7.08  | ng    | 97       |
| 77) Pyrene                     | 12.68 | 202  | 71380    | 4.91  | ng    | 99       |
| 80) Benzo(a)anthracene         | 13.86 | 228  | 36306    | 3.46  | ng    | 96       |
| 82) Chrysene                   | 13.90 | 228  | 30996    | 2.82  | ng    | 96       |
| 83) Bis(2-ethylhexyl)phthalate | 13.87 | 149  | 24380    | 2.97  | ng    | # 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.64 | 276  | 18972    | 2.19  | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 14.89 | 252  | 39769    | 4.70  | ng    | # 74     |
| 88) Benzo(k)fluoranthene       | 14.89 | 252  | 39769    | 5.26  | ng    | # 78     |
| 89) Benzo(a)pyrene             | 15.22 | 252  | 28238    | 3.74  | ng    | # 80     |
| 91) Benzo(a,h,i)perylene       | 17.06 | 276  | 16456    | 2.67  | ng    | 95       |

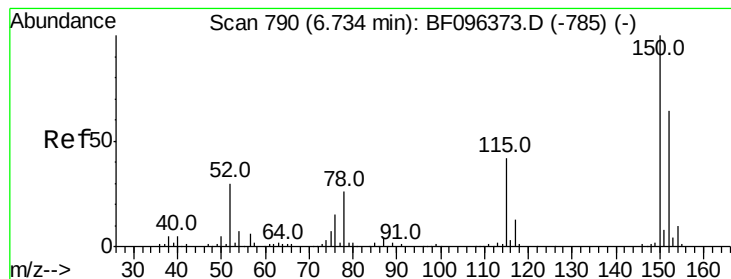
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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QLast Update : Mon Jul 03 01:43:12 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 789

Delta R.T. -0.01 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

Instrument :

BNA\_F

ClientSampled :

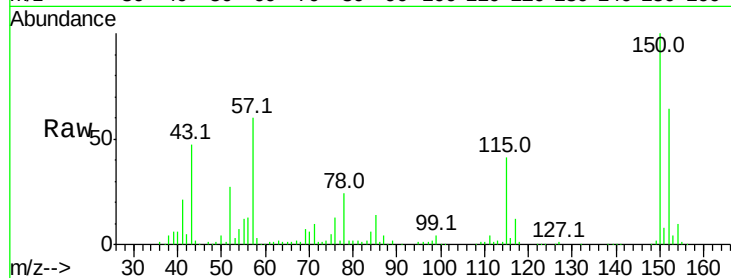
Tot Ion:152 Resp: 111464

Ion Ratio Lower Upper

152 100

150 157.3 126.2 189.2

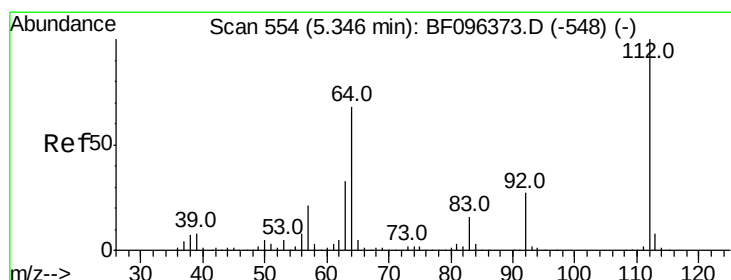
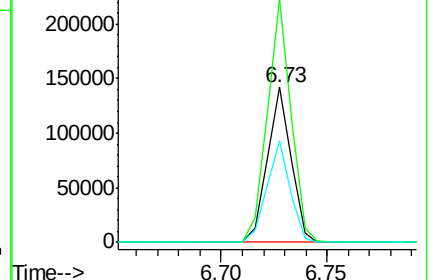
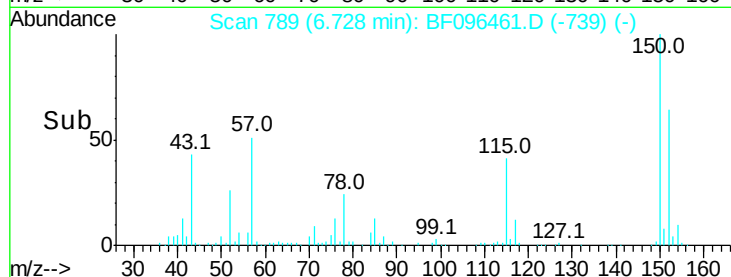
115 65.3 52.2 78.2



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: 89.44 ng

RT: 5.34 min Scan# 553

Delta R.T. -0.01 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

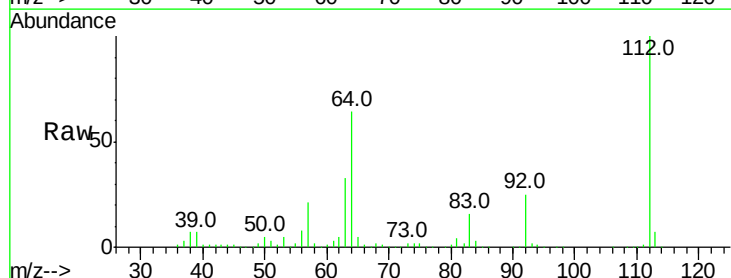
Tgt Ion:112 Resp: 675434

Ion Ratio Lower Upper

112 100

64 64.2 46.0 69.0

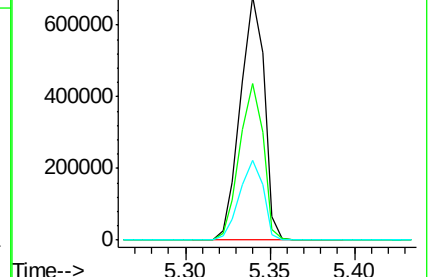
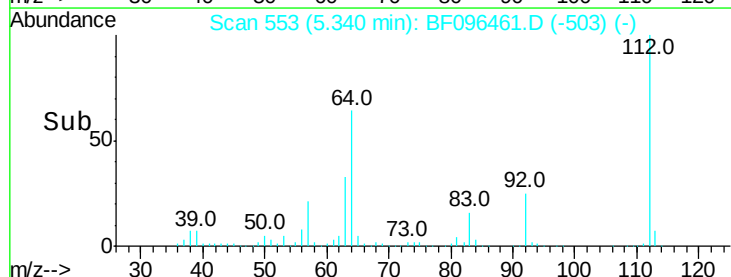
63 32.6 23.4 35.0

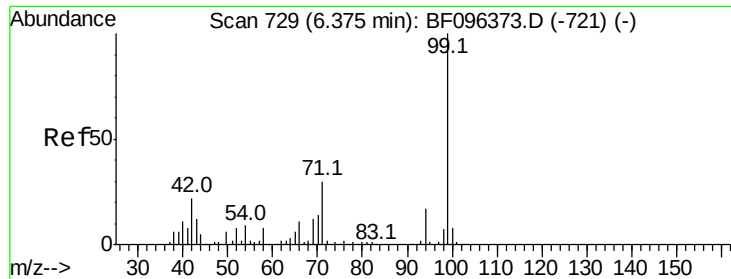


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 89.09 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

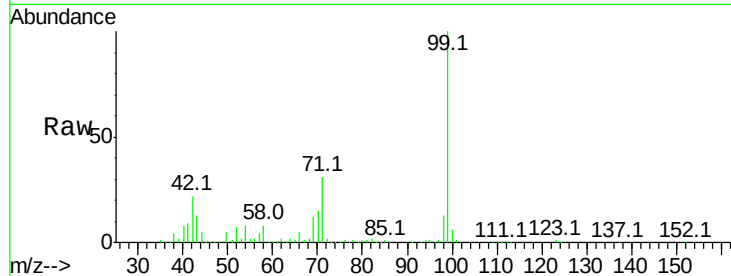
Instrument :

BNA\_F

ClientSampled :

Tot Ion: 99 Resp: 827113

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.7  | 13.5  | 20.3# |
| 71  | 31.2  | 24.5  | 36.7  |



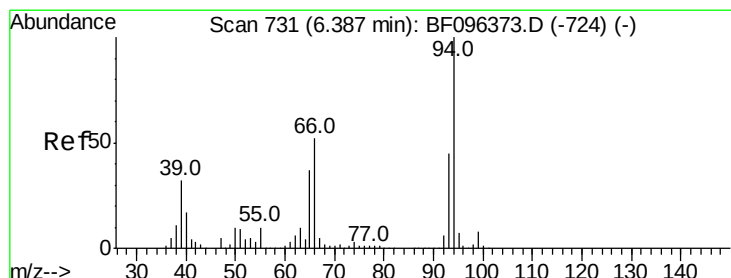
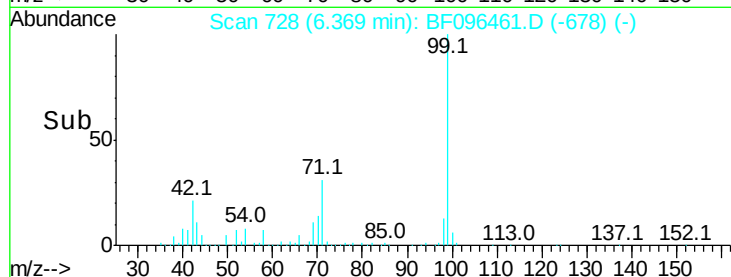
Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

6.37

Time-->



#10

Phenol

Concen: 3.93 ng

RT: 6.37 min Scan# 729

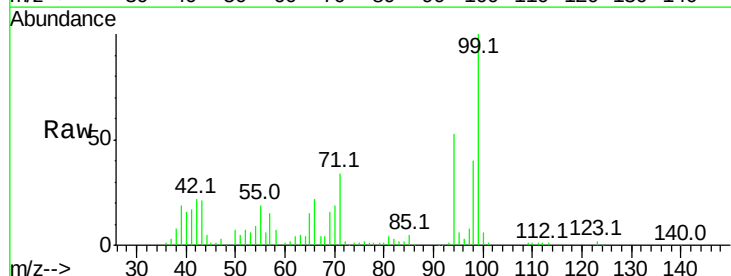
Delta R.T. -0.01 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

Tgt Ion: 94 Resp: 41580

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 29.2  | 9.9   | 49.9  |
| 66  | 42.6  | 23.1  | 63.1  |



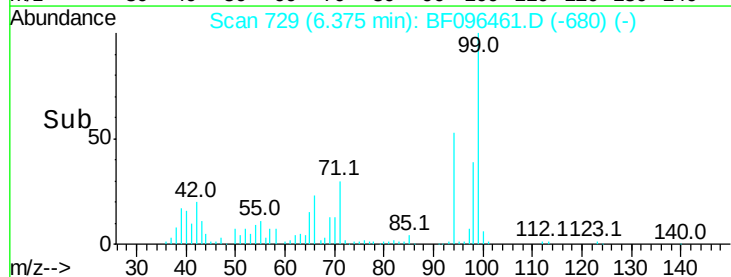
Abundance Ion 94.00 (93.70 to 94.70): BF0

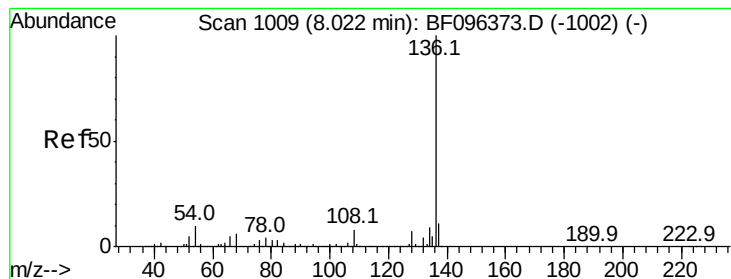
Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

6.37

Time-->

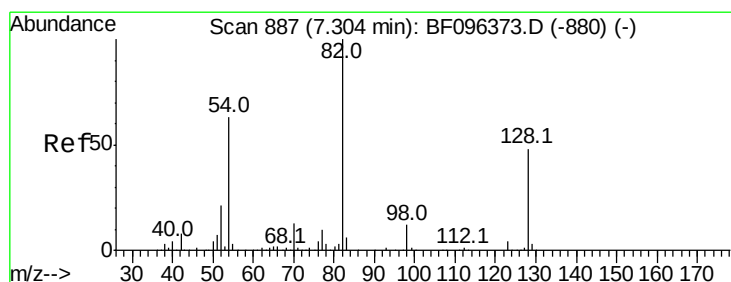
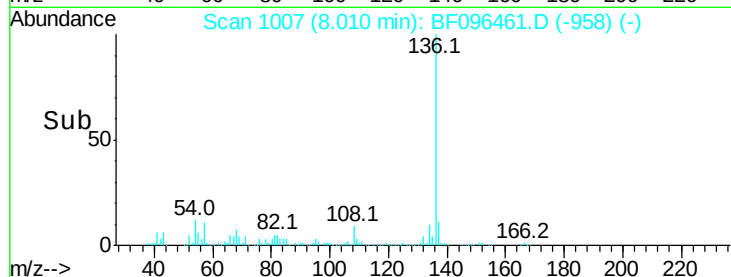
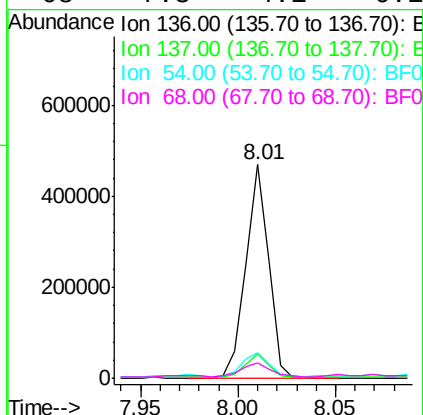
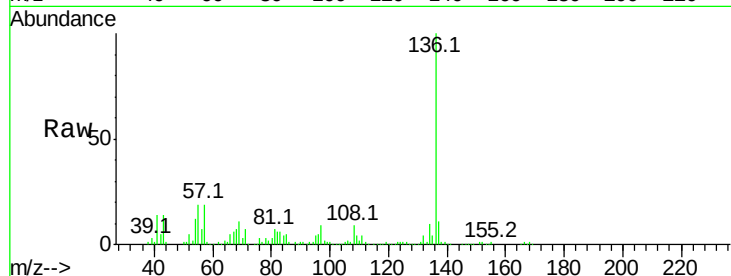




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

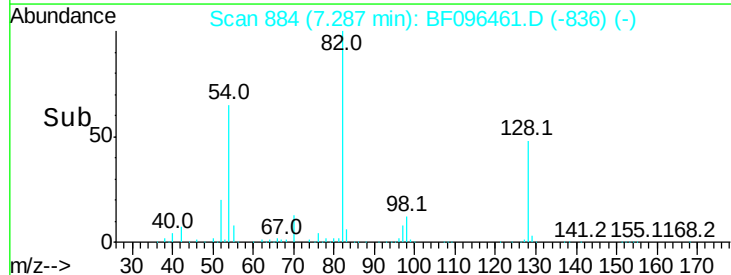
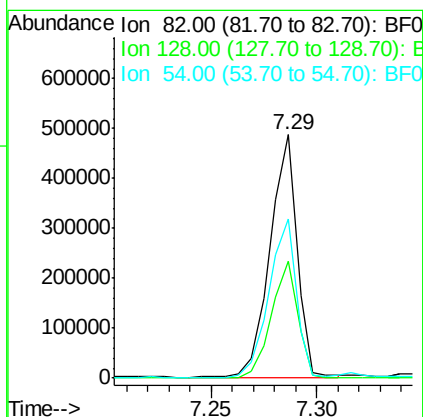
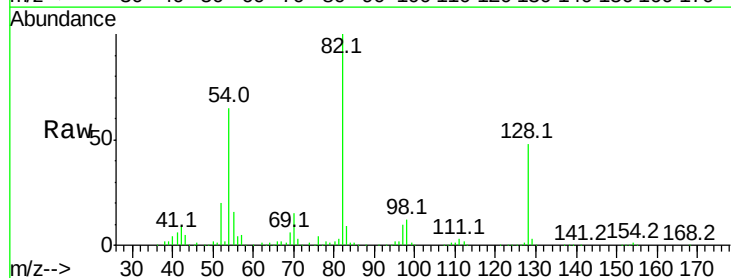
Instrument :  
BNA\_F  
ClientSampleId :

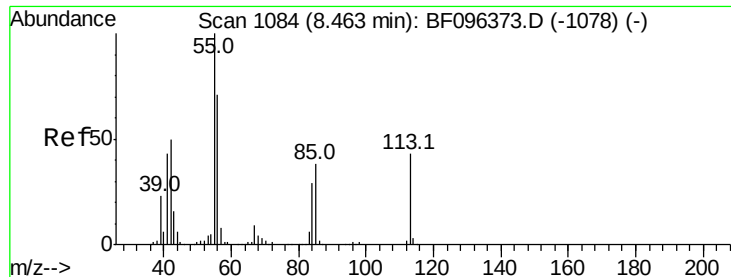
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 378625 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.5   | 12.7   |
| 54       | 12.3  | 4.9   | 7.3#   |
| 68       | 7.3   | 4.1   | 6.1#   |



#23  
Nitrobenzene-d5  
Concen: 68.78 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.02 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 433369 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.9  | 34.0  | 51.0   |
| 54       | 65.4  | 42.2  | 63.2#  |





#35

Caprolactam

Concen: 21.78 ng

RT: 8.45 min Scan# 1082

Delta R.T. -0.01 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

Instrument :

BNA\_F

ClientSampleId :

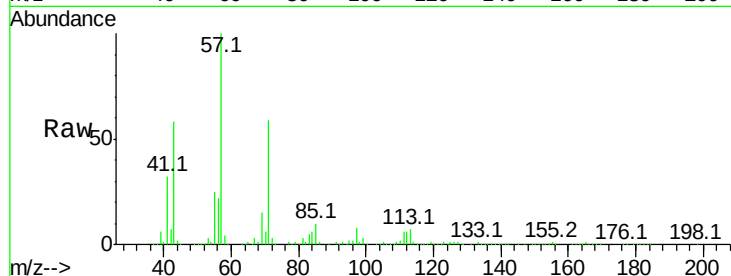
Tot Ion:113 Resp: 38597

Ion Ratio Lower Upper

113 100

55 331.3 150.2 190.2#

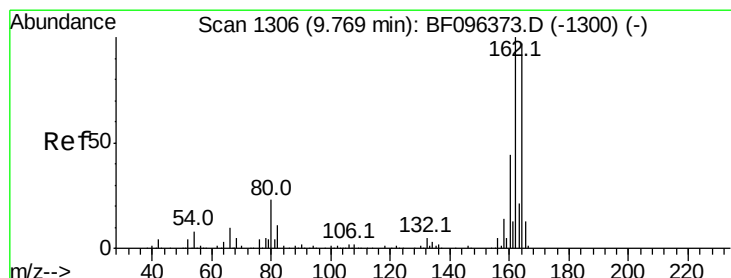
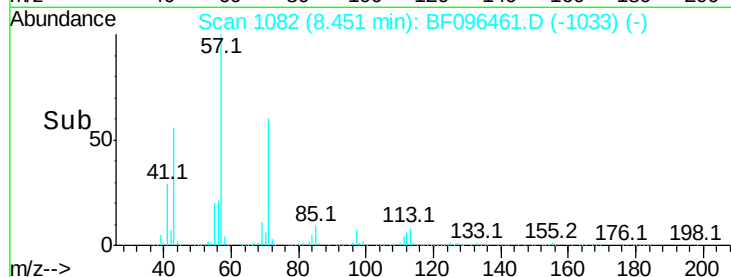
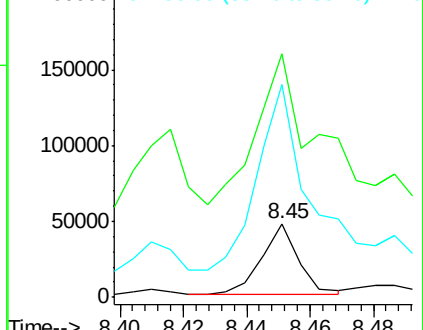
56 290.0 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

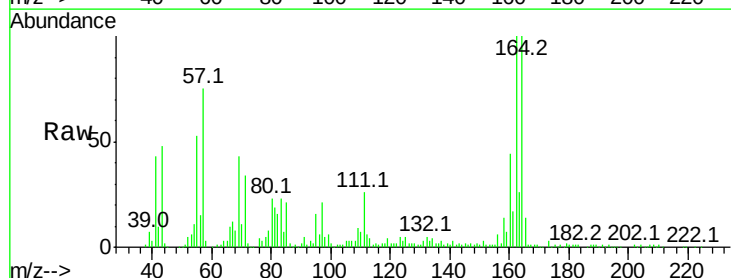
Tgt Ion:164 Resp: 147092

Ion Ratio Lower Upper

164 100

162 99.5 82.6 123.8

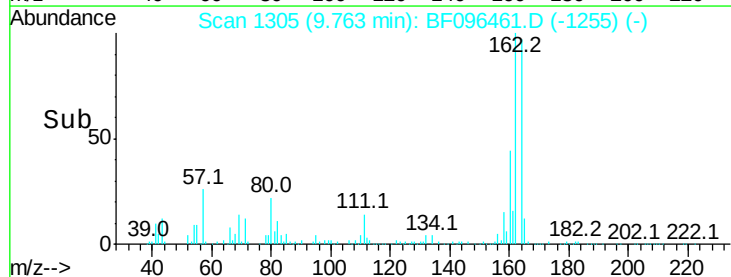
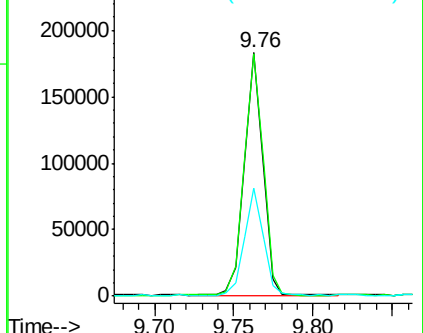
160 44.1 36.2 54.2

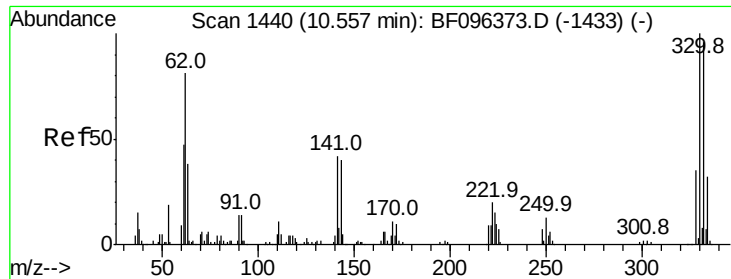


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

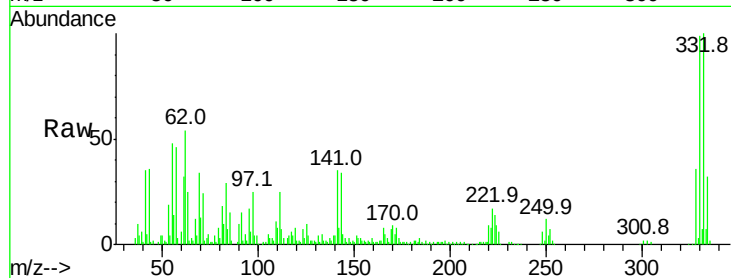




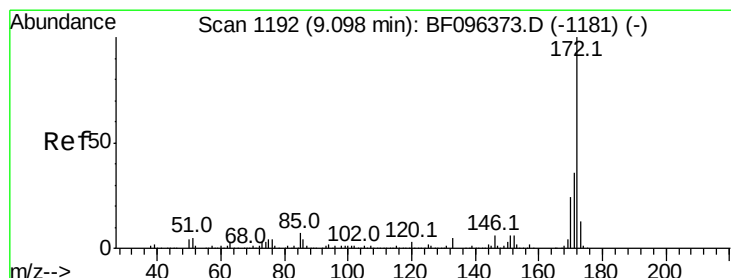
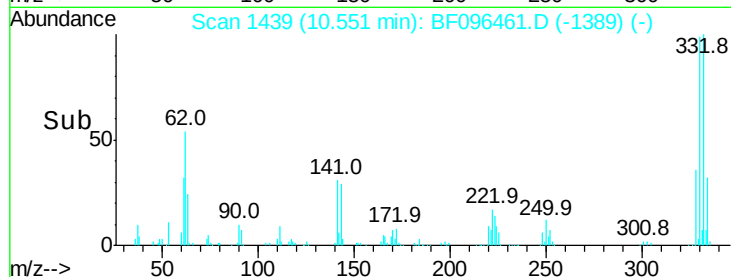
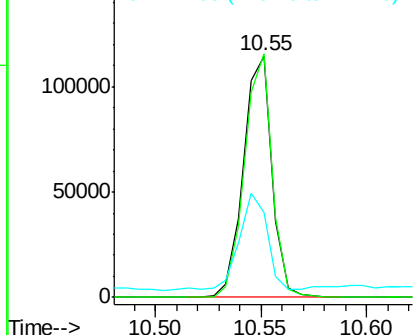
#41  
 2,4,6-Tribromophenol  
 Concen: 93.50 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 107428  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 76.6 115.0  
 141 39.5 31.4 47.2

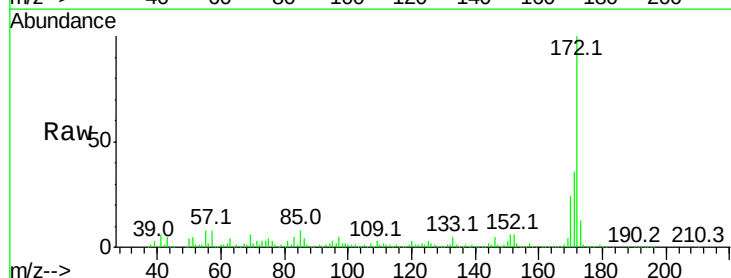


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

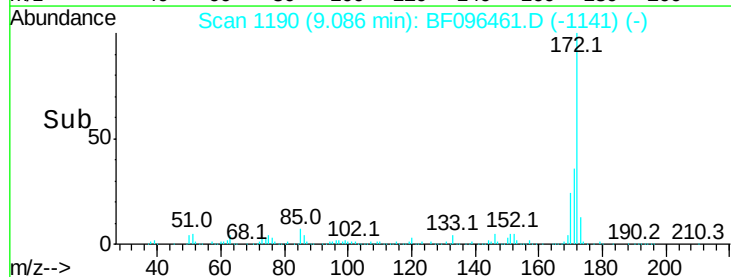
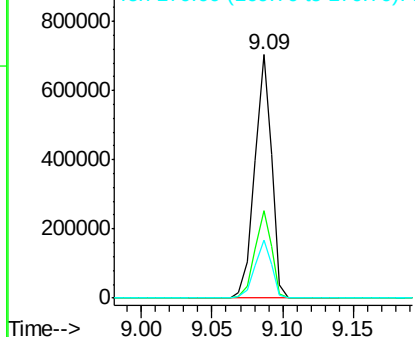


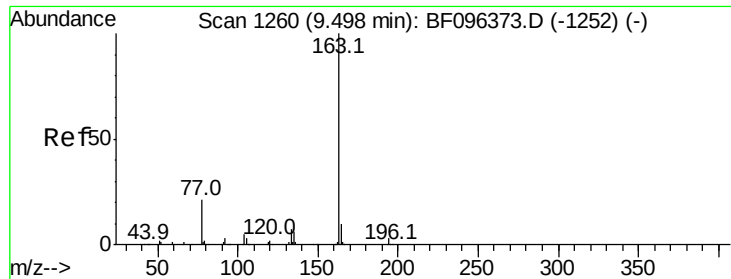
#44  
 2-Fluorobiphenyl  
 Concen: 69.13 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

Tgt Ion:172 Resp: 594695  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 29.6 44.4  
 170 24.0 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

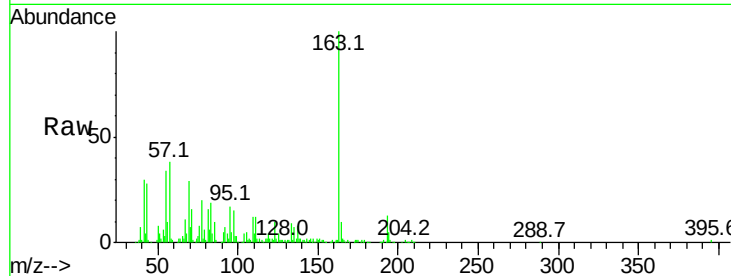




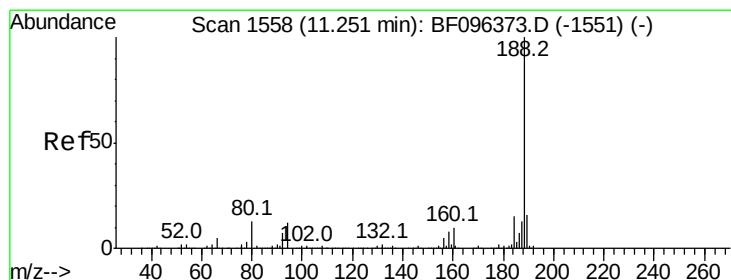
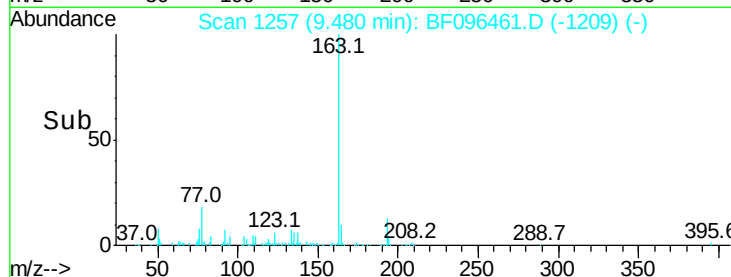
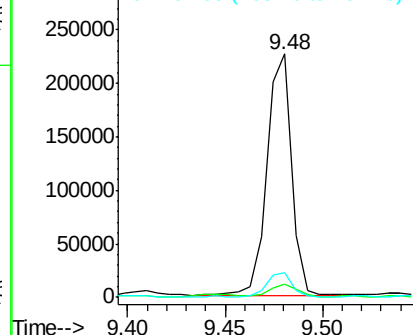
#49  
Dimethylphthalate  
Concen: 17.83 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 195753  
Ion Ratio Lower Upper  
163 100  
194 5.3 2.6 4.0#  
164 10.2 8.4 12.6

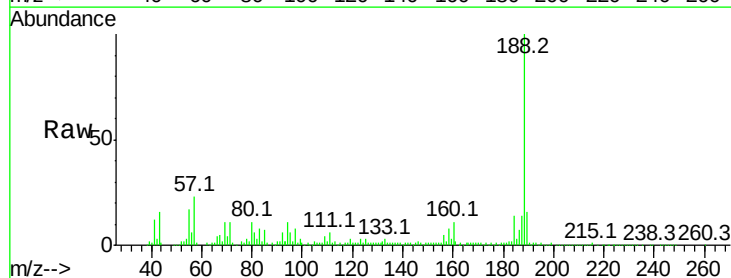


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

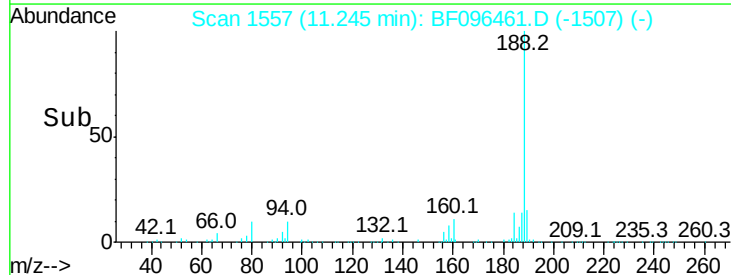
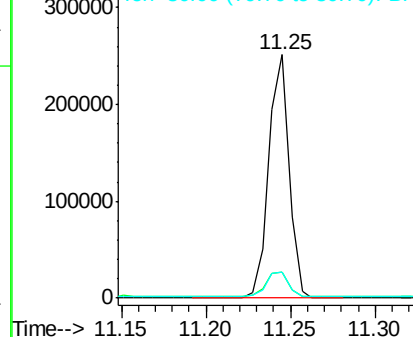


#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

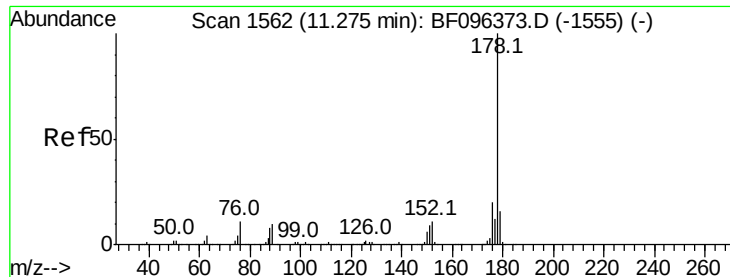
Tgt Ion:188 Resp: 210845  
Ion Ratio Lower Upper  
188 100  
94 10.9 9.4 14.2  
80 10.6 10.2 15.2



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



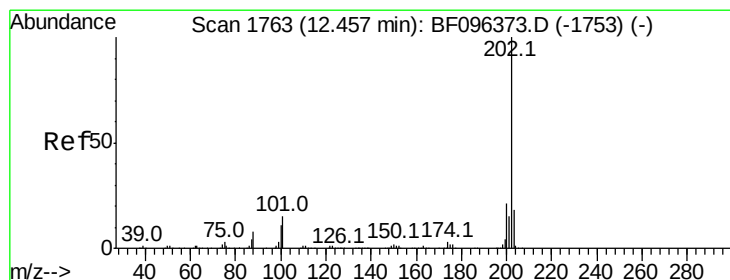
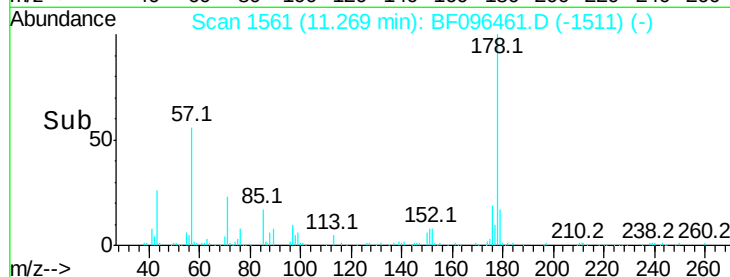
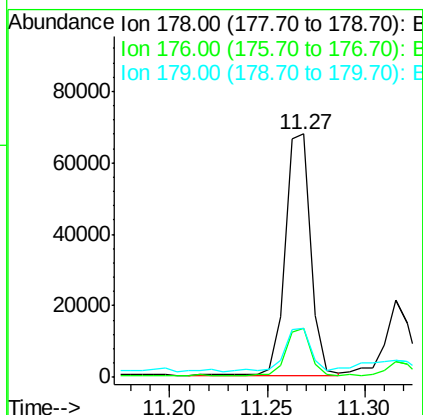
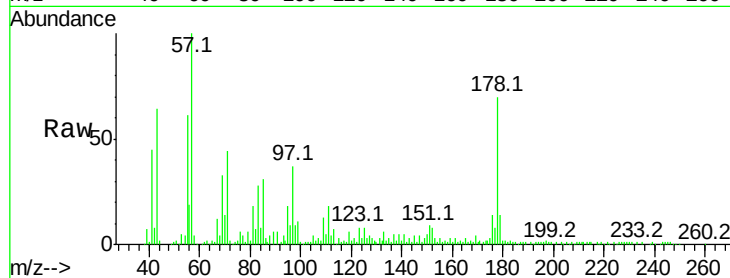




#70  
Phenanthrene  
Concen: 5.33 ng  
RT: 11.27 min Scan# 1561  
Delta R.T. -0.01 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

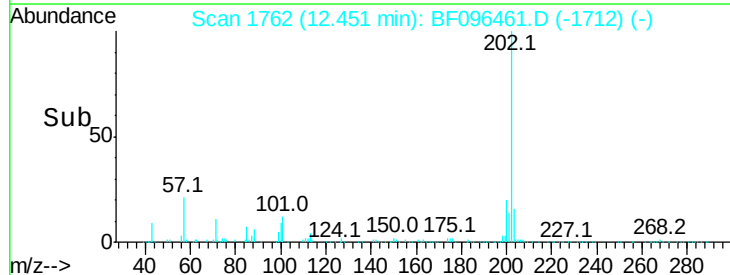
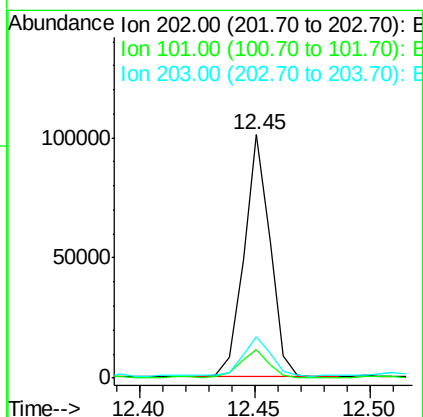
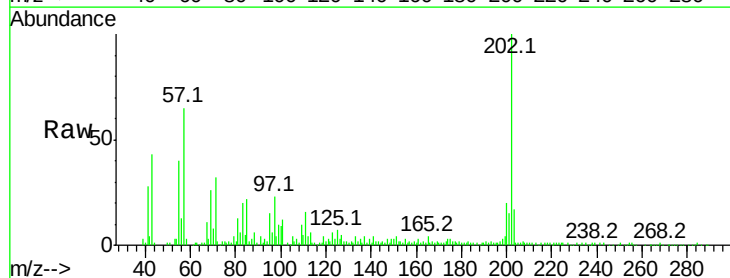
Instrument :  
BNA\_F  
ClientSampleId :

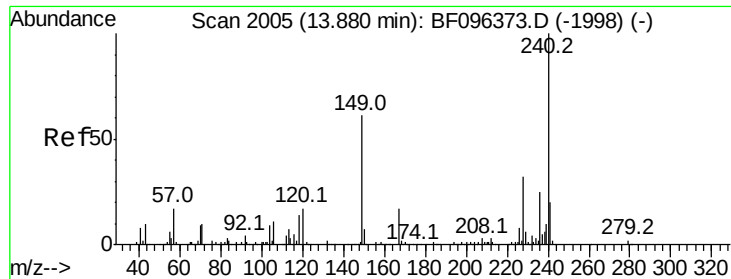
Tot Ion:178 Resp: 60714  
Ion Ratio Lower Upper  
178 100  
176 20.0 16.2 24.4  
179 20.2 12.6 19.0#



#74  
Fluoranthene  
Concen: 7.08 ng  
RT: 12.45 min Scan# 1762  
Delta R.T. -0.01 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

Tgt Ion:202 Resp: 79158  
Ion Ratio Lower Upper  
202 100  
101 11.8 0.0 33.2  
203 17.0 0.0 38.1

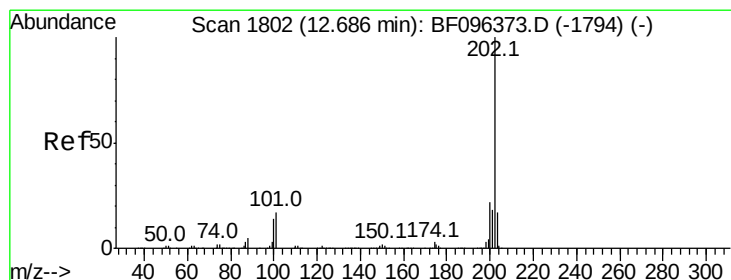
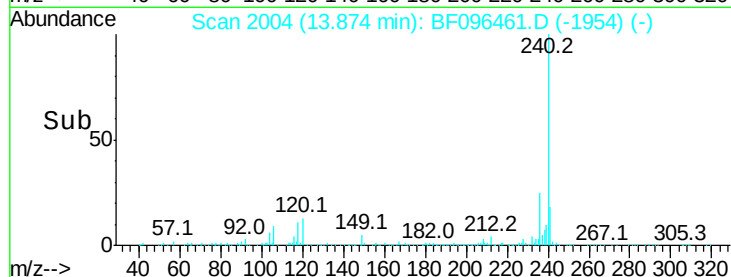
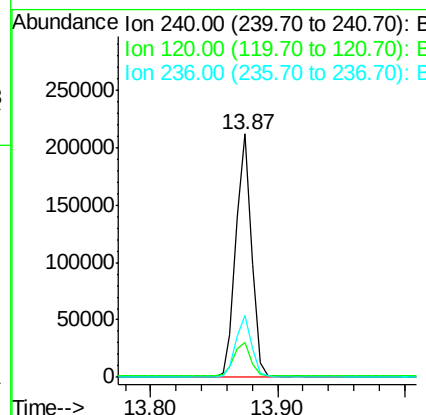
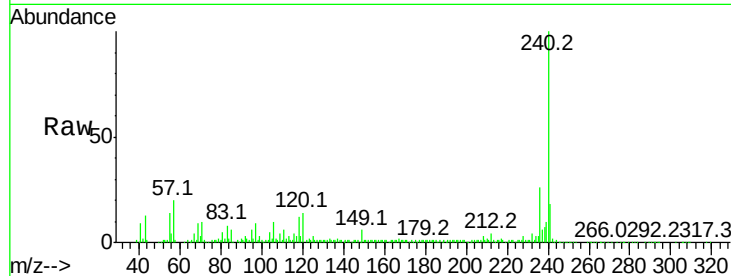




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.87 min Scan# 2004  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

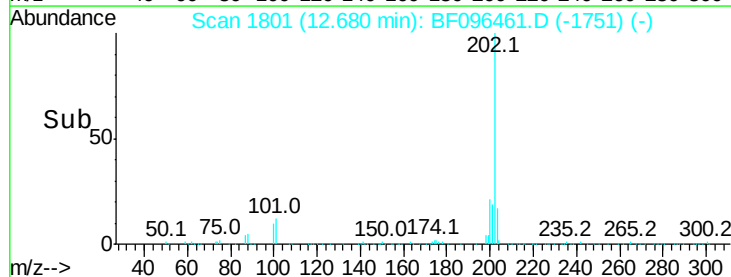
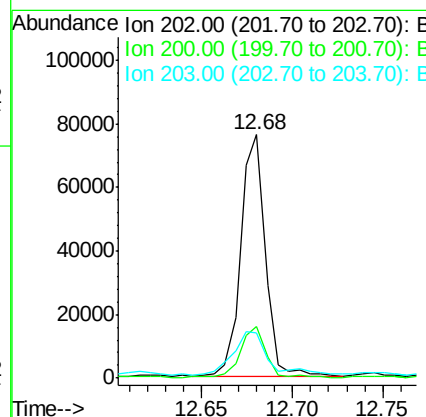
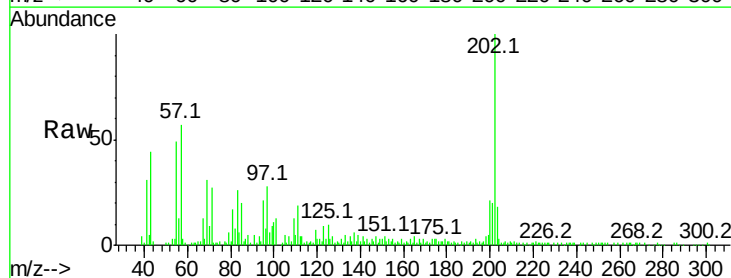
Instrument :  
 BNA\_F  
 ClientSampleId :

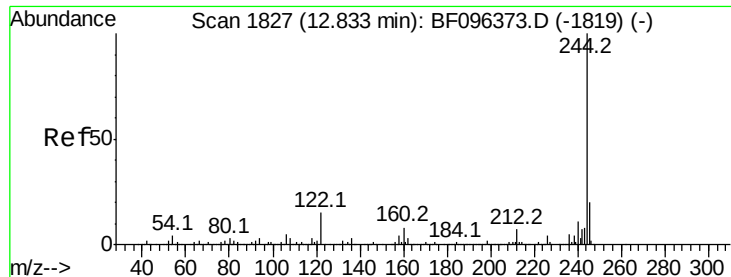
Tot Ion:240 Resp: 181259  
 Ion Ratio Lower Upper  
 240 100  
 120 14.3 5.8 8.8#  
 236 25.6 20.5 30.7



#77  
 Pyrene  
 Concen: 4.91 ng  
 RT: 12.68 min Scan# 1801  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

Tgt Ion:202 Resp: 71380  
 Ion Ratio Lower Upper  
 202 100  
 200 21.2 17.6 26.4  
 203 18.3 14.4 21.6

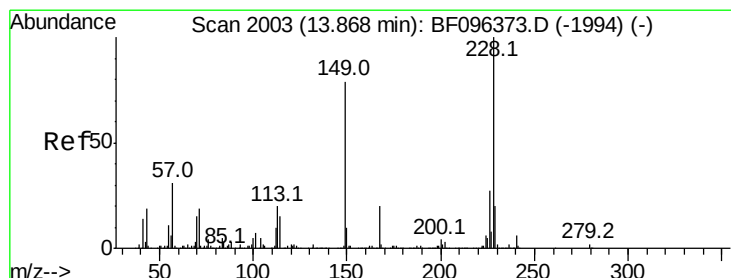
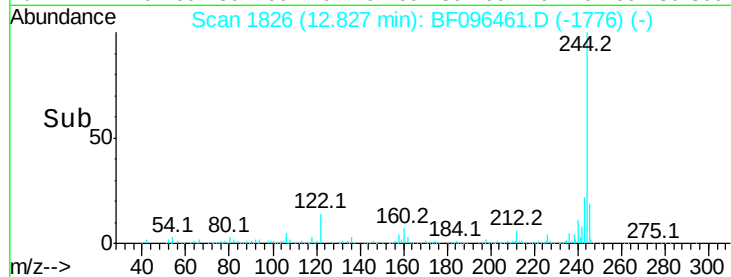
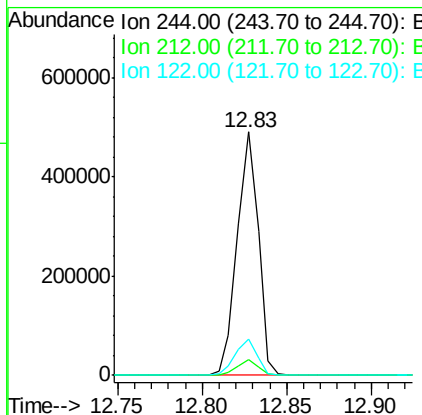
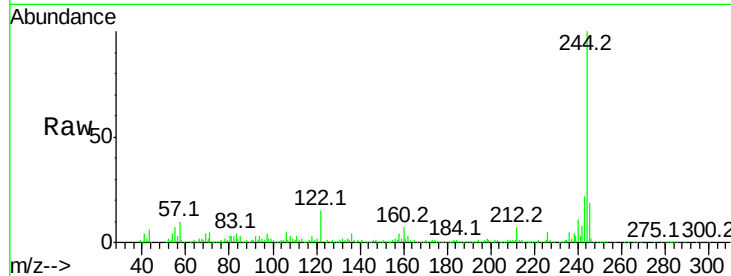




#78  
 Terphenyl-d14  
 Concen: 50.51 ng  
 RT: 12.83 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

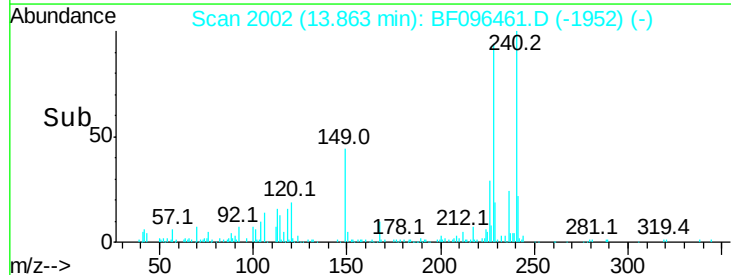
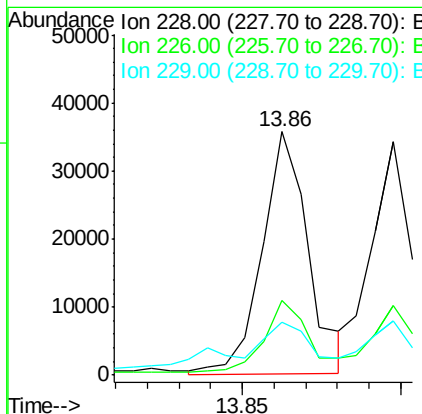
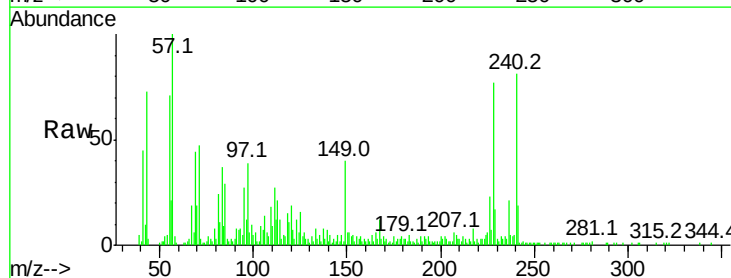
Instrument :  
 BNA\_F  
 ClientSampleId :

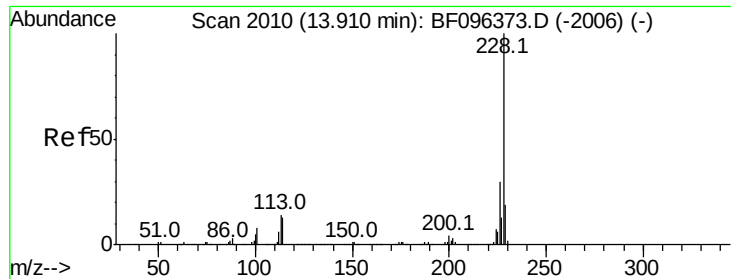
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 6.0   | 9.0   |
| 122     | 14.7  | 10.3  | 15.5  |



#80  
 Benzo(a)anthracene  
 Concen: 3.46 ng  
 RT: 13.86 min Scan# 2002  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 22.6  | 33.8  |
| 229     | 21.8  | 16.3  | 24.5  |

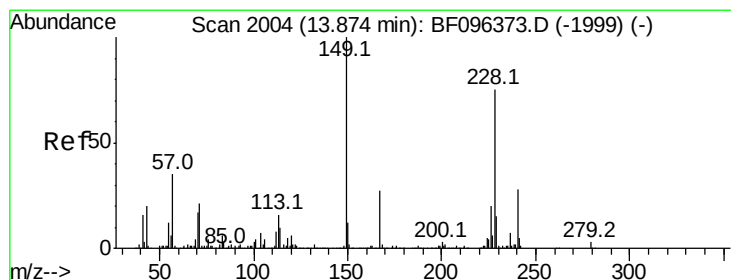
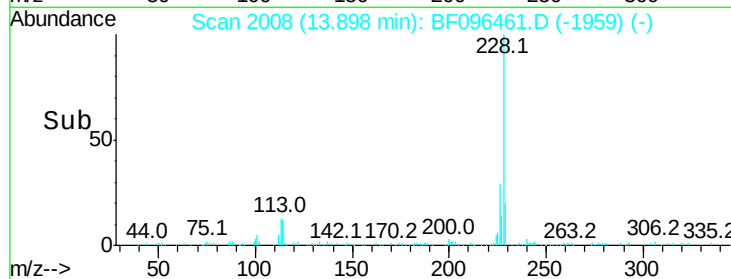
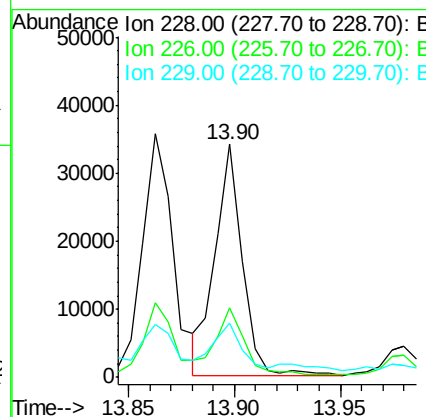
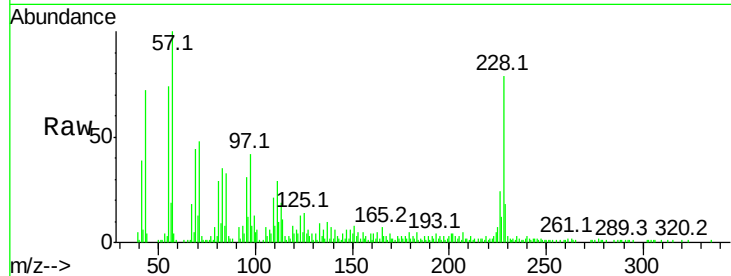




#82  
 Chrysene  
 Concen: 2.82 ng  
 RT: 13.90 min Scan# 2008  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

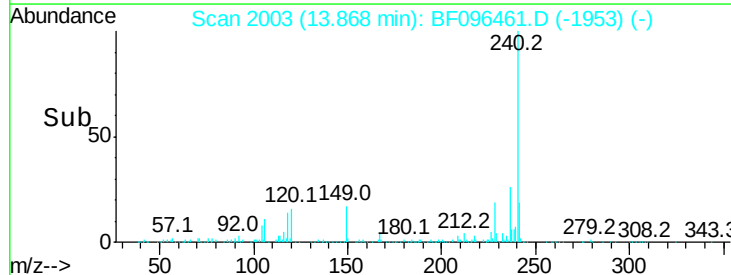
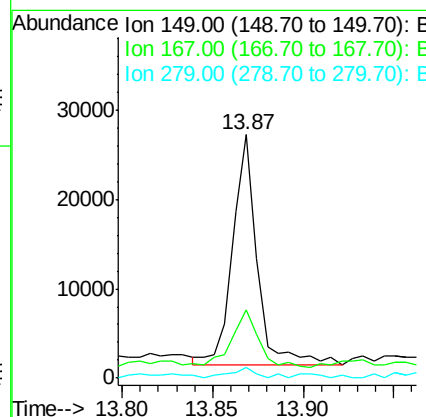
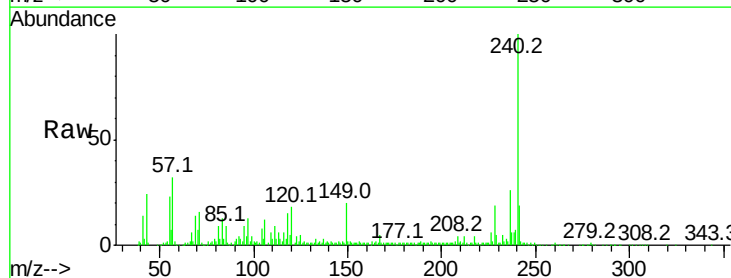
Instrument :  
 BNA\_F  
 ClientSampled :

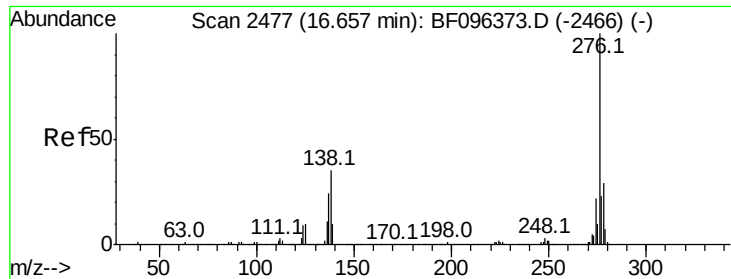
Tot Ion:228 Resp: 30996  
 Ion Ratio Lower Upper  
 228 100  
 226 29.9 24.9 37.3  
 229 23.4 15.8 23.6



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.97 ng  
 RT: 13.87 min Scan# 2003  
 Delta R.T. -0.01 min  
 Lab File: BF096461.D  
 Acq: 4 Jul 2017 1:52

Tgt Ion:149 Resp: 24380  
 Ion Ratio Lower Upper  
 149 100  
 167 28.1 21.0 31.4  
 279 4.2 1.9 2.9#

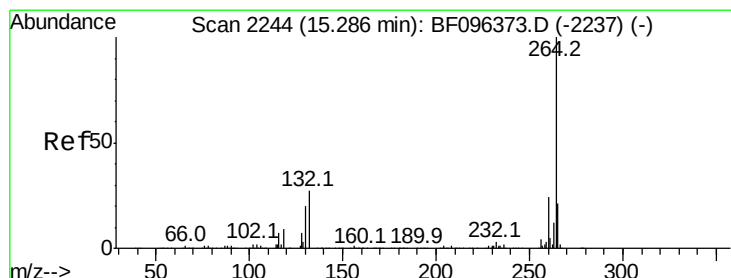
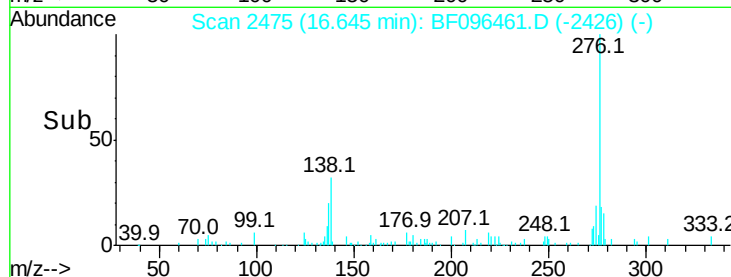
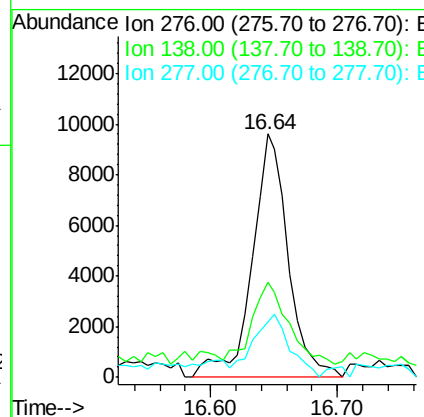
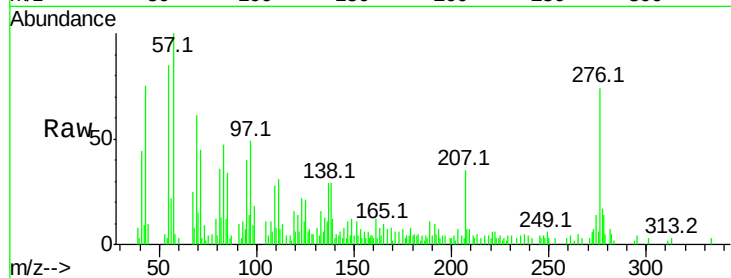




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.19 ng  
RT: 16.64 min Scan# 2475  
Delta R.T. -0.01 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

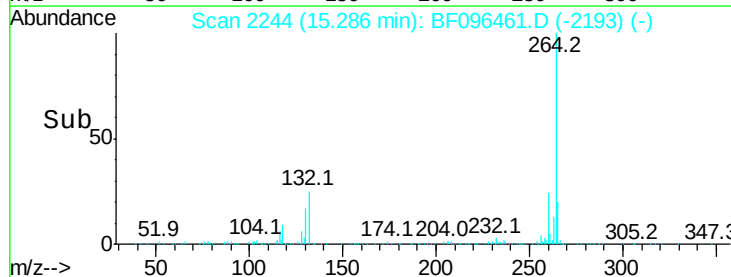
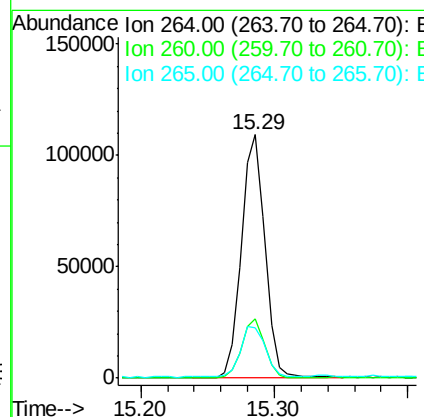
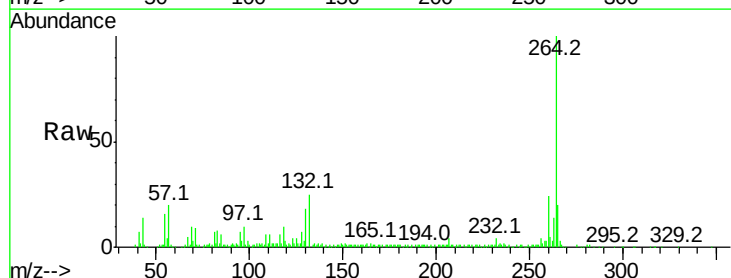
Instrument :  
BNA\_F  
ClientSampleId :

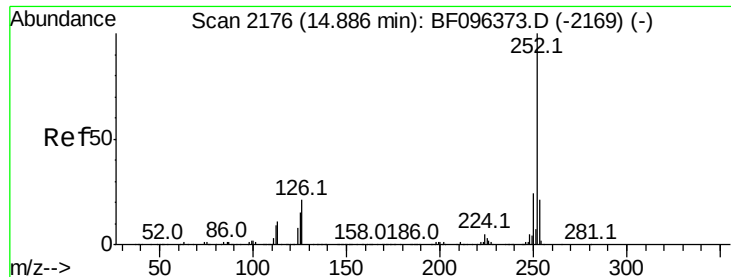
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 34.0  | 27.8  | 41.6  |
| 277     | 26.1  | 20.2  | 30.4  |



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 2244  
Delta R.T. -0.00 min  
Lab File: BF096461.D  
Acq: 4 Jul 2017 1:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.5  | 29.3  |
| 265     | 20.4  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 4.70 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

Instrument :

BNA\_F

ClientSampleId :

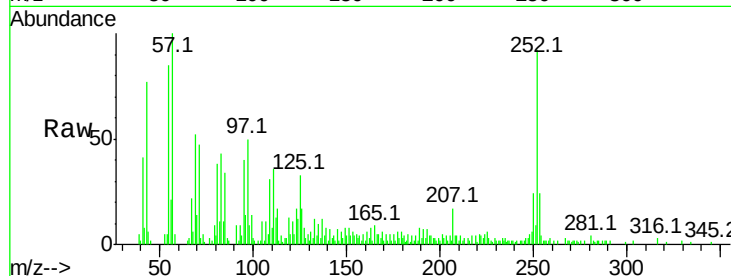
Tot Ion:252 Resp: 39769

Ion Ratio Lower Upper

252 100

253 25.8 18.1 27.1

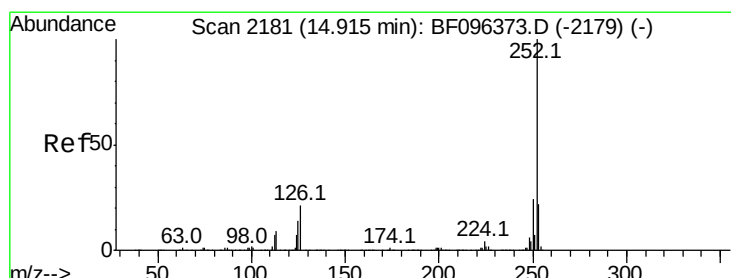
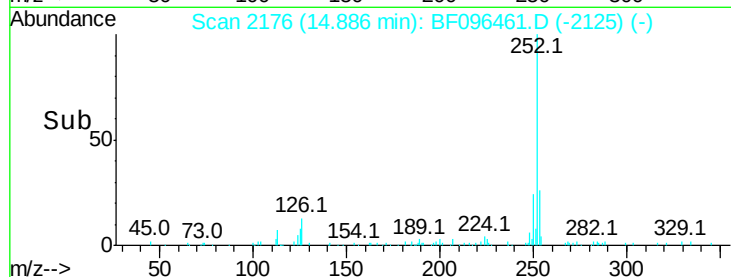
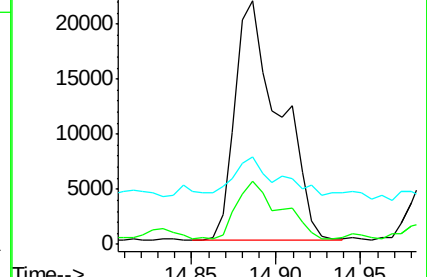
125 35.9 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 5.26 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.03 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

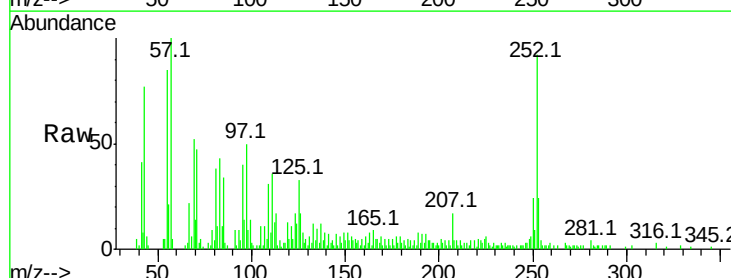
Tgt Ion:252 Resp: 39769

Ion Ratio Lower Upper

252 100

253 25.8 18.4 27.6

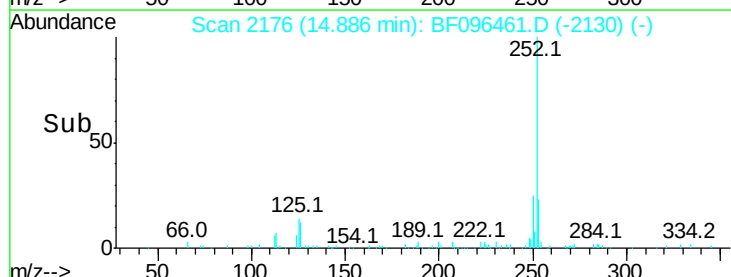
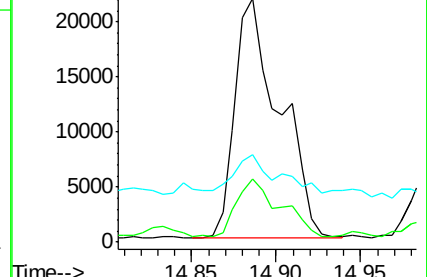
125 35.9 13.1 19.7#

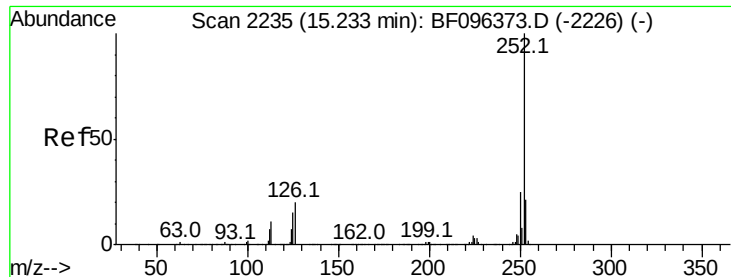


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.74 ng

RT: 15.22 min Scan# 2233

Delta R.T. -0.01 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

Instrument :

BNA\_F

ClientSampleId :

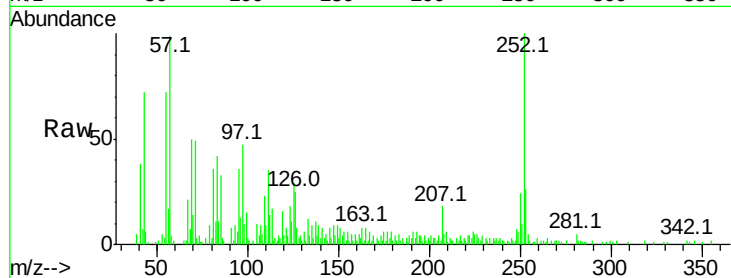
Tot Ion:252 Resp: 28238

Ion Ratio Lower Upper

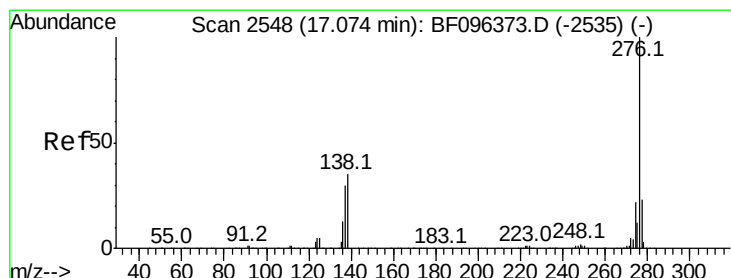
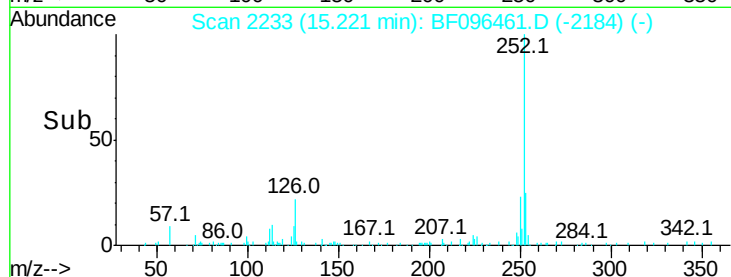
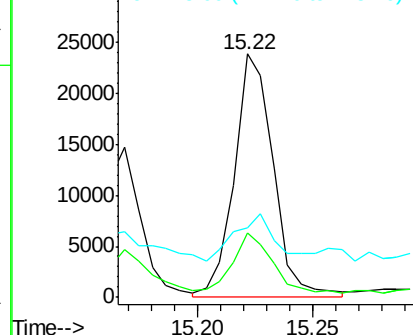
252 100

253 26.3 17.5 26.3#

125 28.7 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(g,h,i)perylene

Concen: 2.67 ng

RT: 17.06 min Scan# 2545

Delta R.T. -0.02 min

Lab File: BF096461.D

Acq: 4 Jul 2017 1:52

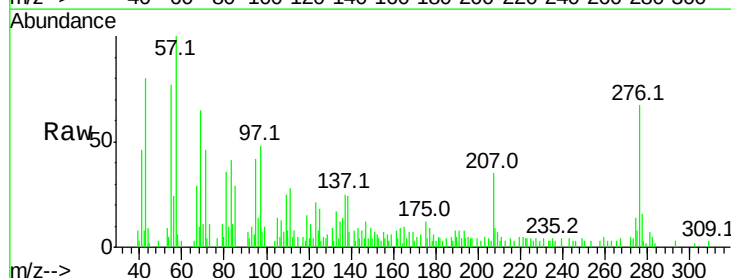
Tgt Ion:276 Resp: 16456

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 36.0 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

