

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071417\  
 Data File : BF096795.D  
 Acq On : 15 Jul 2017 2:15  
 Operator : SJ/JU  
 Sample : I4187-05  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 15 04:06:58 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 13 14:49:34 2017  
 Response via : Initial Calibration

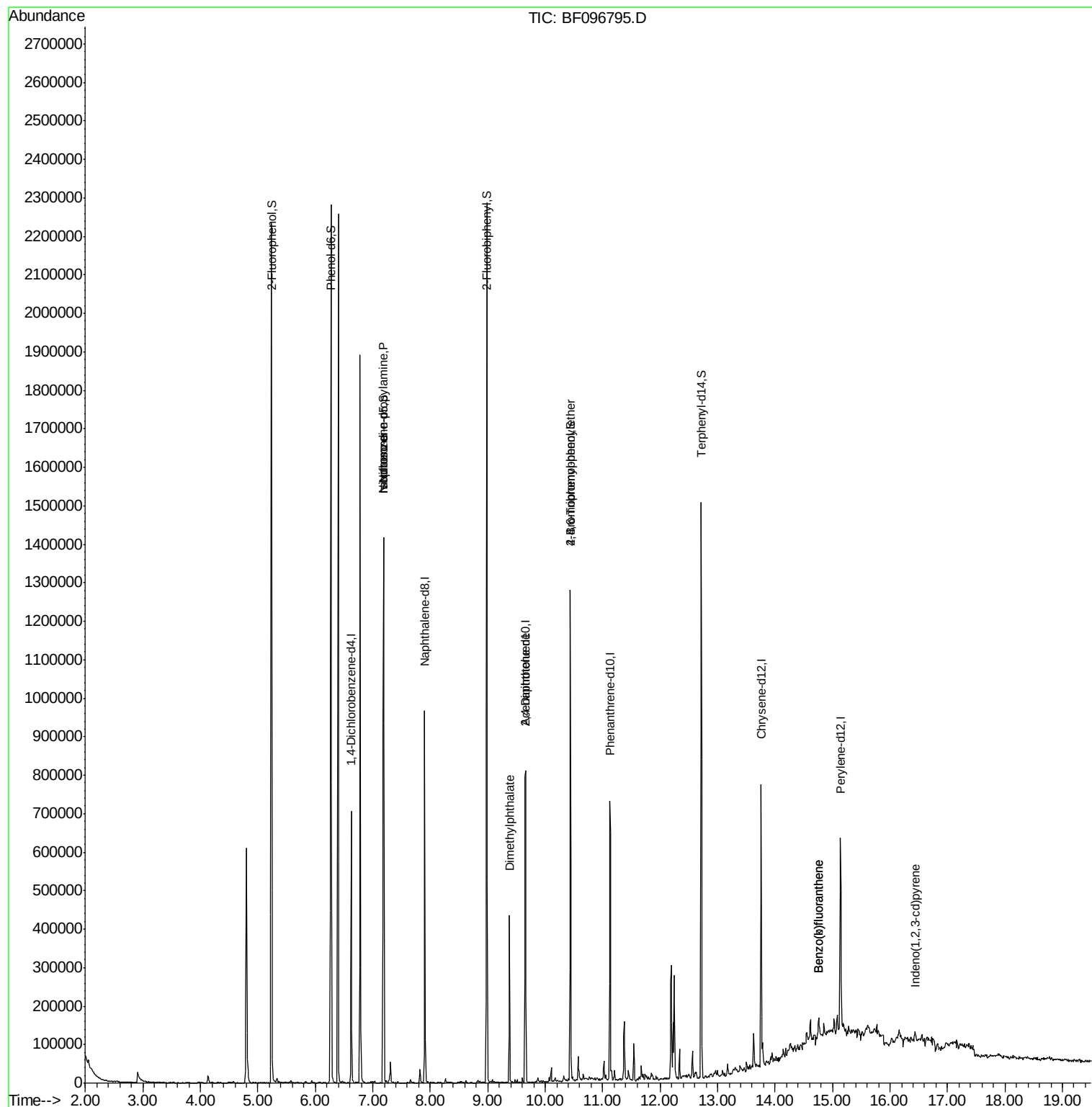
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.62  | 152  | 100001   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.90  | 136  | 413793   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.65  | 164  | 166060   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.13 | 188  | 252425   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.76 | 240  | 211420   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.14 | 264  | 200237   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.24  | 112  | 678875   | 102.07 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.27  | 99   | 778009   | 97.48  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.19  | 82   | 431427   | 64.58  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.44 | 330  | 127259   | 89.78  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.99  | 172  | 727572   | 69.22  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.72 | 244  | 417676   | 34.26  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70   | 57228    | 11.90  | ng    | # 87     |
| 25) Isophorone                 | 7.19  | 82   | 430838   | 34.67  | ng    | # 67     |
| 49) Dimethylphthalate          | 9.38  | 163  | 178125   | 14.25  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.65  | 165  | 21366    | 6.14   | ng    | # 34     |
| 66) 4-Bromophenyl-phenylether  | 10.44 | 248  | 8269     | 3.21   | ng    | # 1      |
| 85) Indeno(1,2,3-cd)pyrene     | 16.44 | 276  | 10524    | 4.17   | ng    | # 95     |
| 87) Benzo(b)fluoranthene       | 14.76 | 252  | 28910    | 2.39   | ng    | # 83     |
| 88) Benzo(k)fluoranthene       | 14.76 | 252  | 28910    | 2.53   | ng    | # 88     |

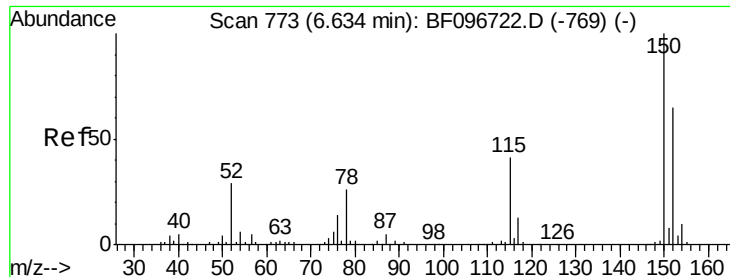
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration



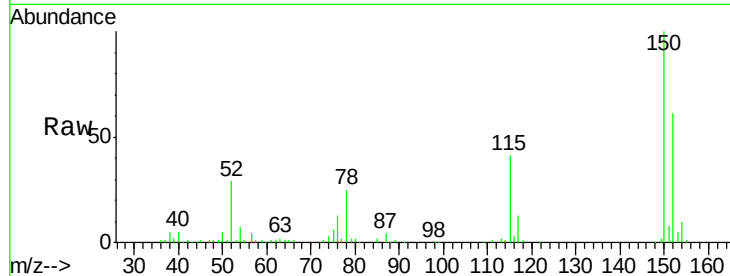


#1

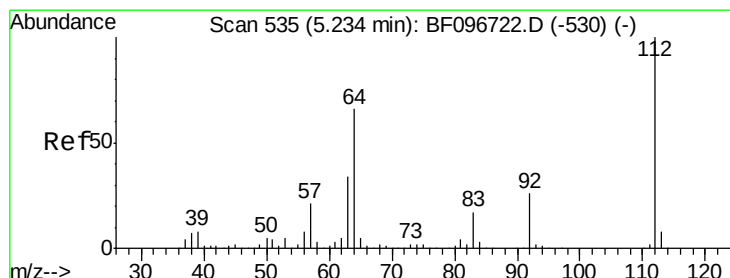
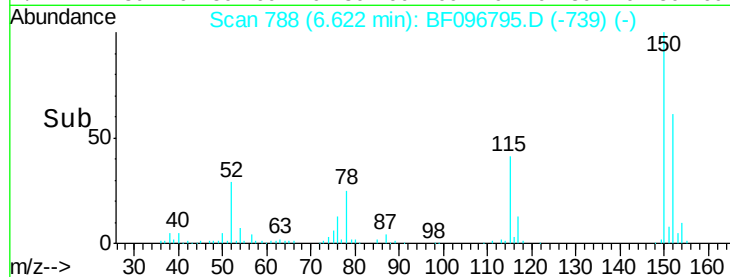
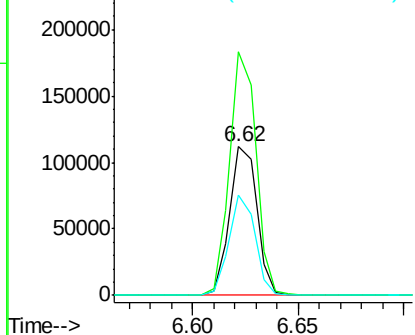
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.62 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 100001  
Ion Ratio Lower Upper  
152 100  
150 164.1 126.2 189.2  
115 67.4 52.2 78.2



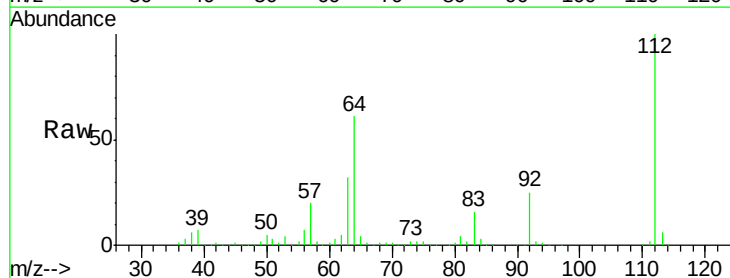
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



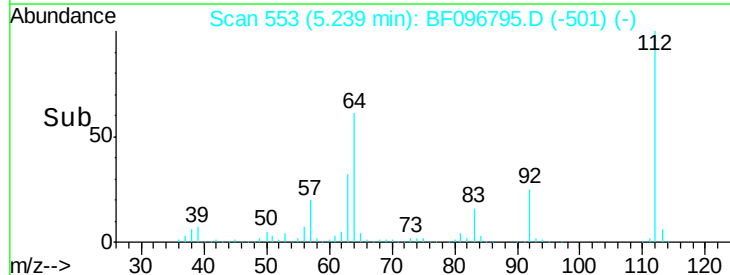
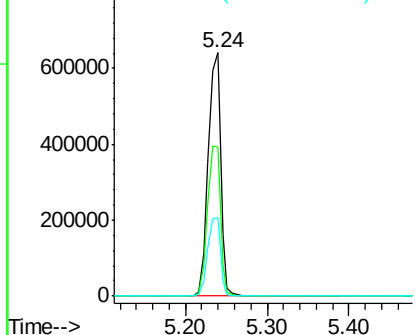
#5

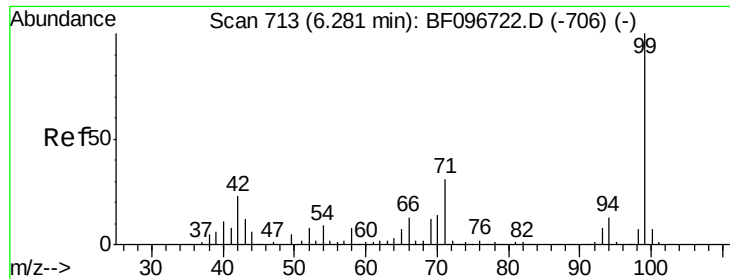
2-Fluorophenol  
Concen: 102.07 ng  
RT: 5.24 min Scan# 553  
Delta R.T. 0.01 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Tgt Ion:112 Resp: 678875  
Ion Ratio Lower Upper  
112 100  
64 61.4 46.0 69.0  
63 32.0 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: 97.48 ng

RT: 6.27 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

Instrument :

BNA\_F

ClientSampled :

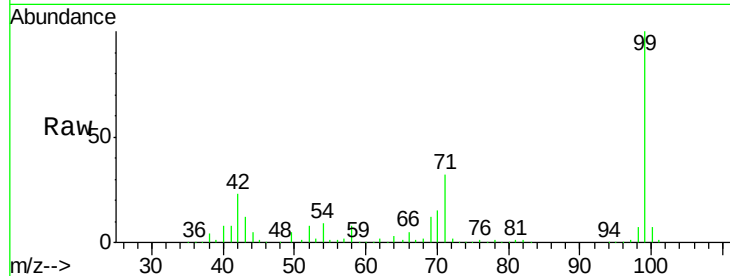
Tot Ion: 99 Resp: 778009

Ion Ratio Lower Upper

99 100

42 22.8 13.5 20.3#

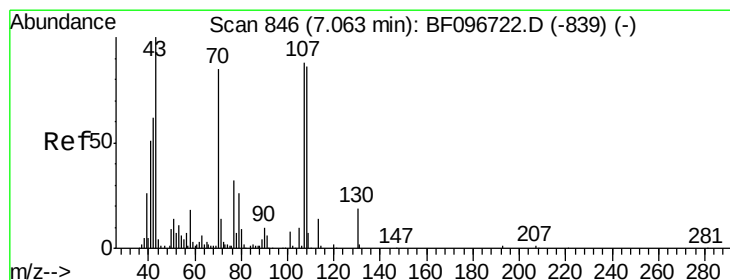
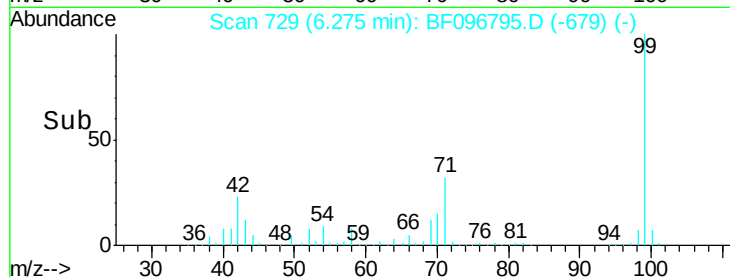
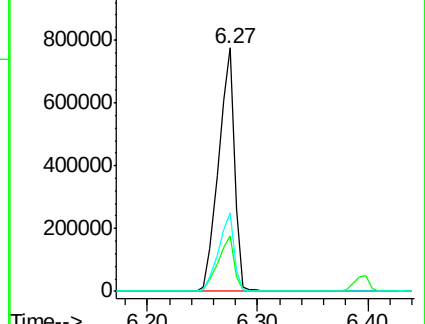
71 32.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 11.90 ng

RT: 7.19 min Scan# 884

Delta R.T. 0.12 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

Tgt Ion: 70 Resp: 57228

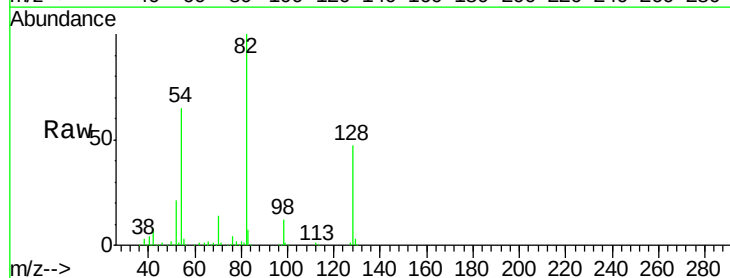
Ion Ratio Lower Upper

70 100

42 57.0 47.2 70.8

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#

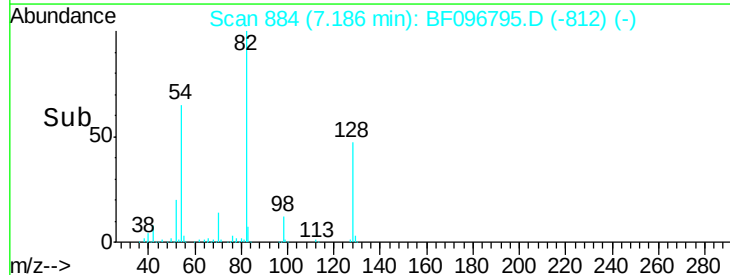
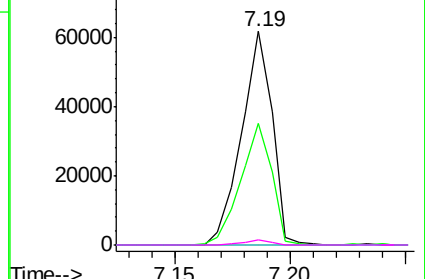


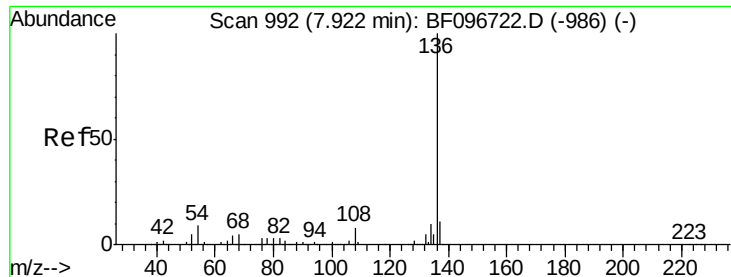
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

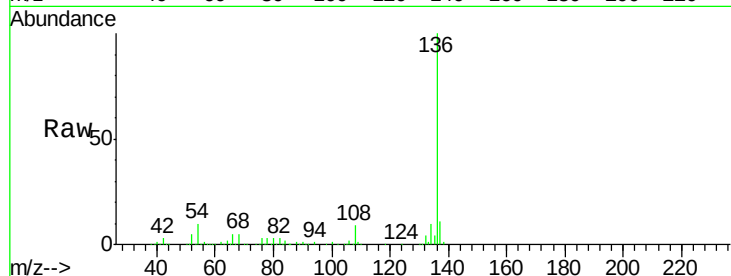




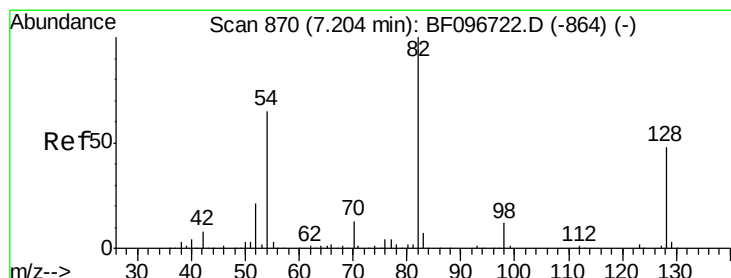
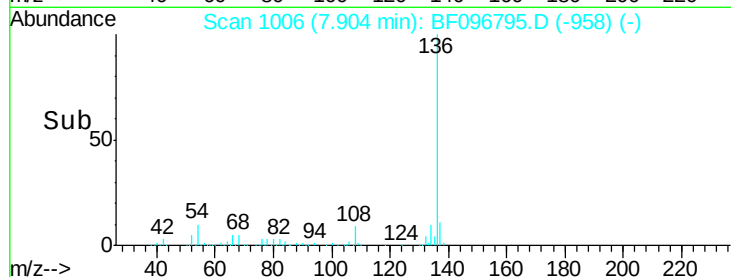
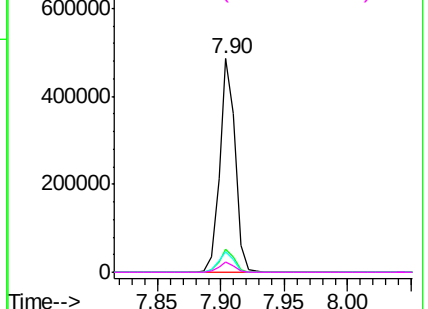
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.90 min Scan# 1006  
Delta R.T. -0.02 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 413793   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.5 12.7 |
| 54          | 9.8   | 4.9 7.3# |
| 68          | 5.1   | 4.1 6.1  |

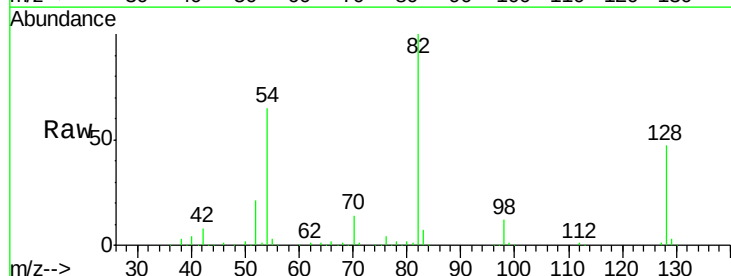


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

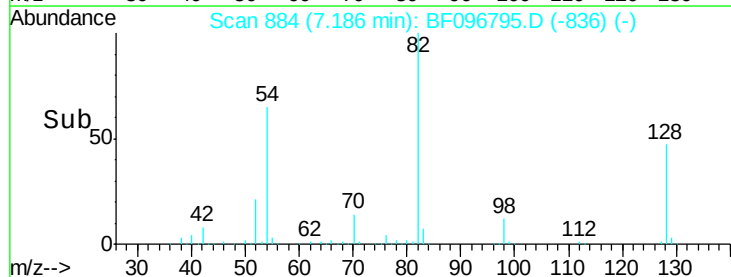
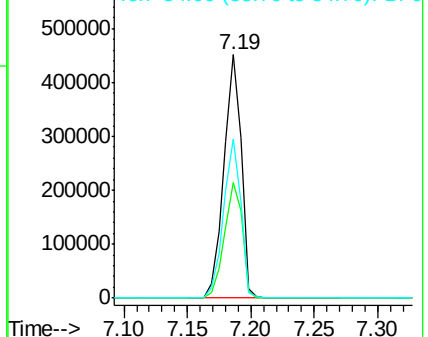


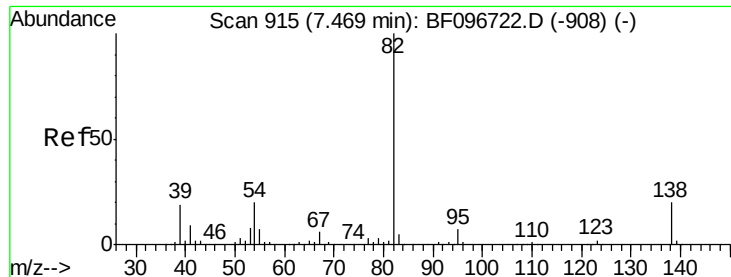
#23  
Nitrobenzene-d5  
Concen: 64.58 ng  
RT: 7.19 min Scan# 884  
Delta R.T. -0.02 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 431427     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 47.4  | 34.0 51.0  |
| 54          | 65.5  | 42.2 63.2# |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 34.67 ng

RT: 7.19 min Scan# 884

Delta R.T. -0.28 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

Instrument :

BNA\_F

ClientSampleId :

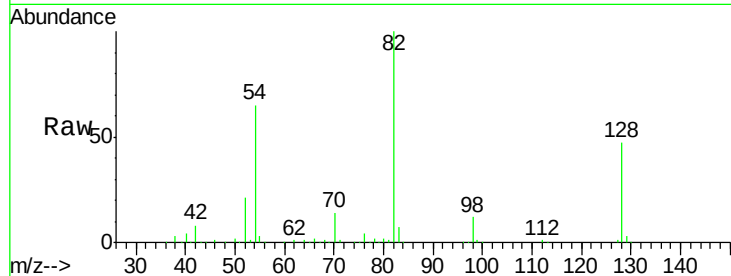
Tot Ion: 82 Resp: 430838

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

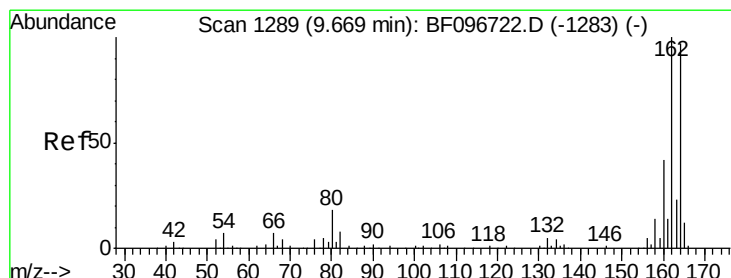
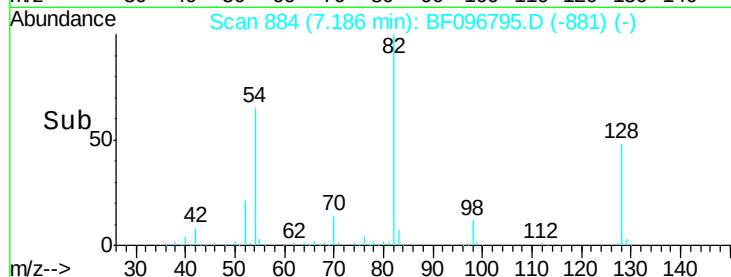
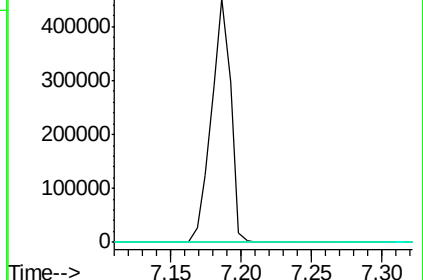
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.65 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

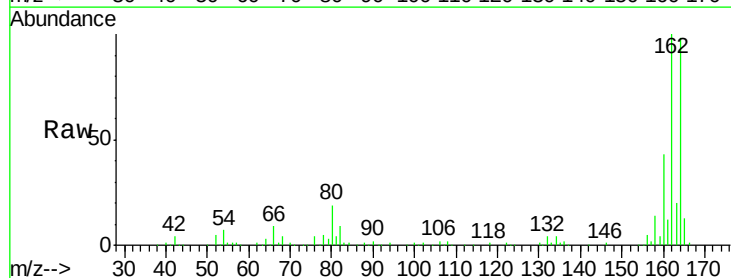
Tgt Ion:164 Resp: 166060

Ion Ratio Lower Upper

164 100

162 101.9 82.6 123.8

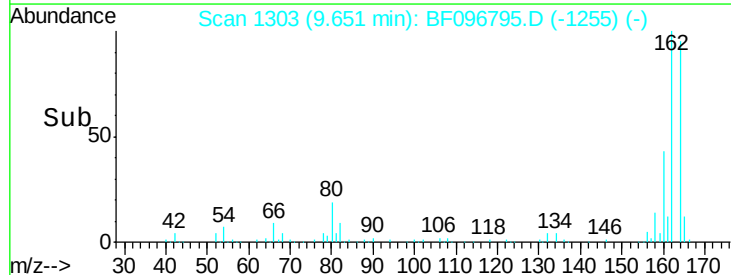
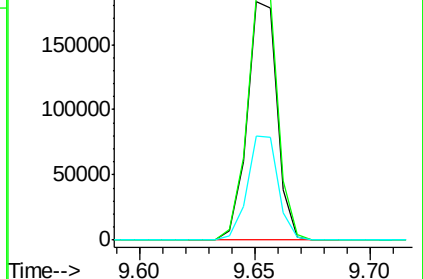
160 43.7 36.2 54.2

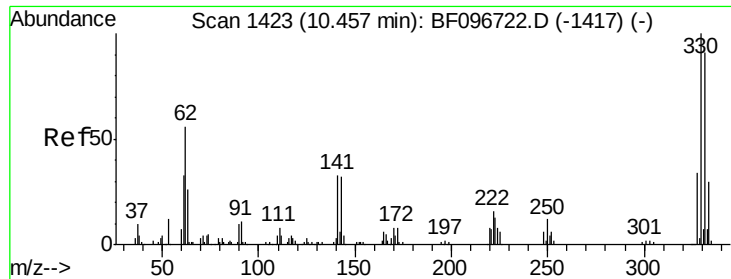


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 89.78 ng

RT: 10.44 min Scan# 1437

Delta R.T. -0.02 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

Instrument :

BNA\_F

ClientSampleId :

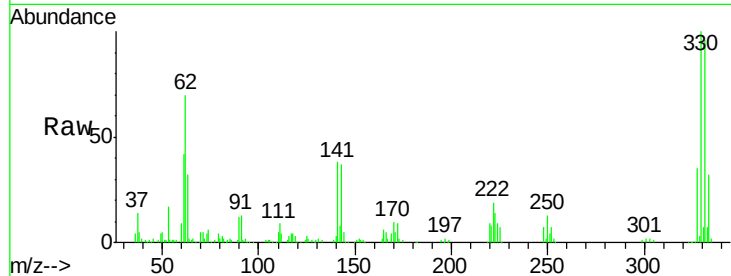
Tot Ion:330 Resp: 127259

Ion Ratio Lower Upper

330 100

332 94.9 76.6 115.0

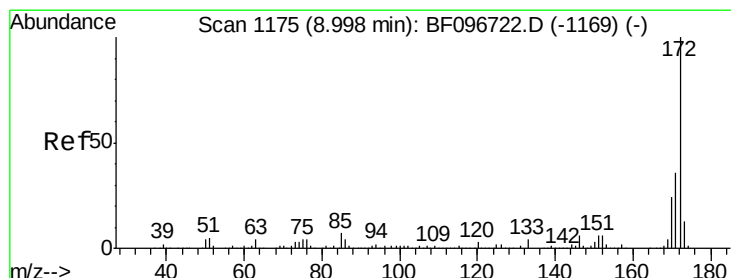
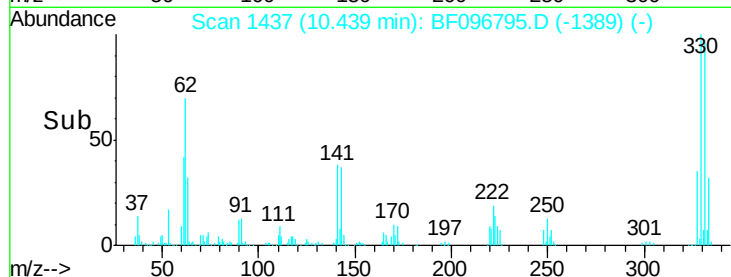
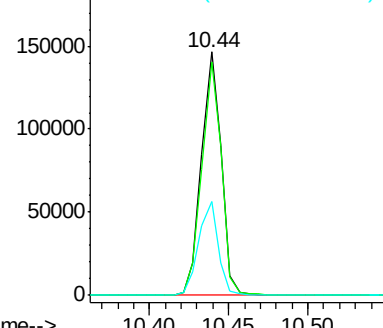
141 38.2 31.4 47.2



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: 69.22 ng

RT: 8.99 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

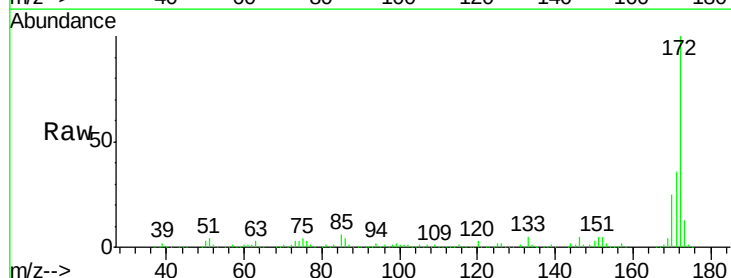
Tgt Ion:172 Resp: 727572

Ion Ratio Lower Upper

172 100

171 36.1 29.6 44.4

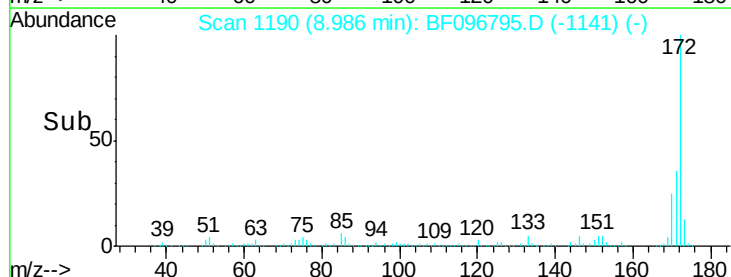
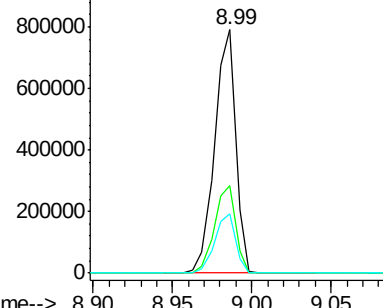
170 24.6 19.8 29.8

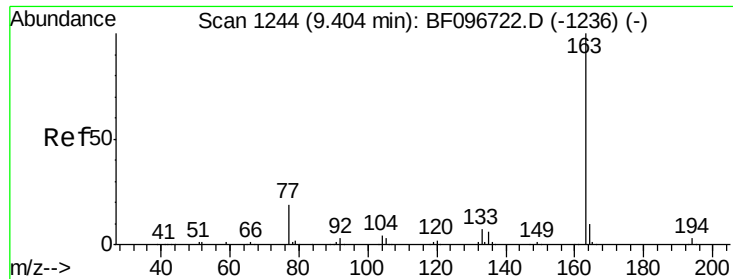


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

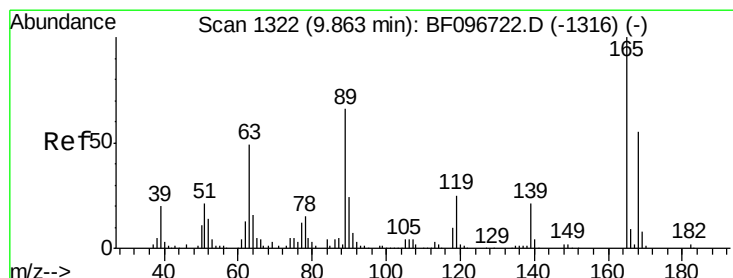
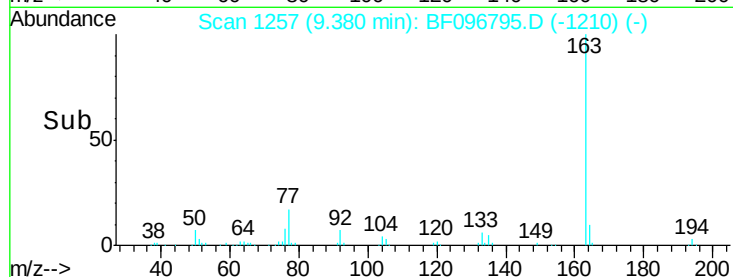
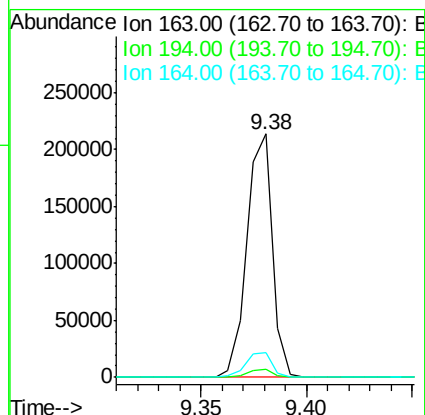
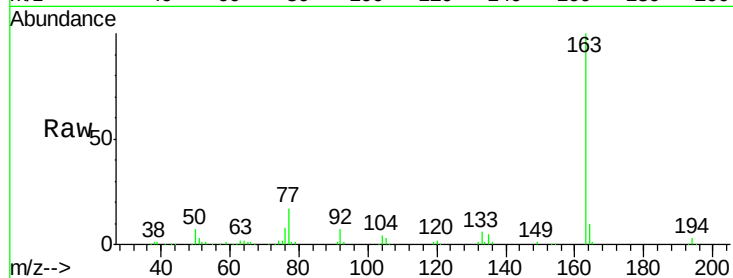




#49  
Dimethylphthalate  
Concen: 14.25 ng  
RT: 9.38 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

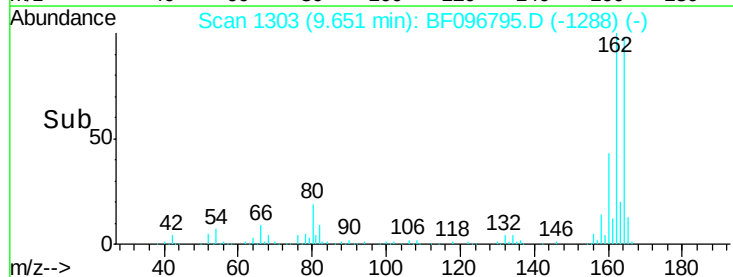
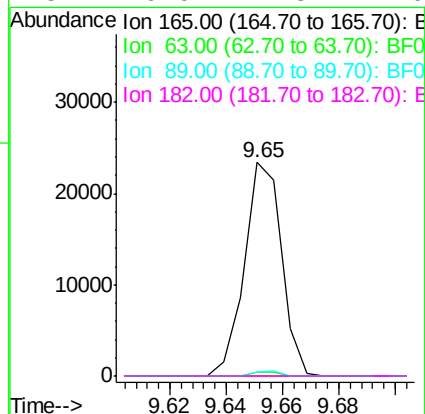
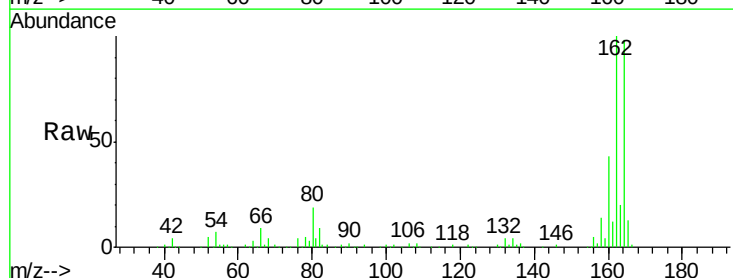
Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:163 Resp: 178125  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.6 4.0  
164 10.2 8.4 12.6

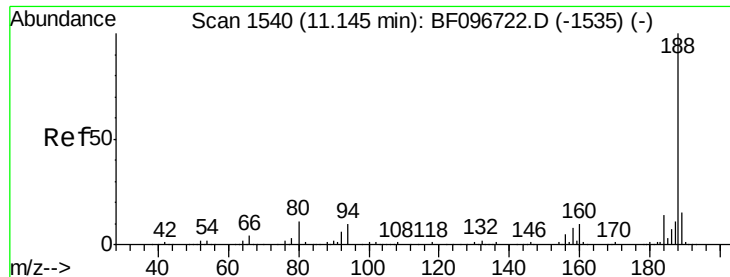


#56  
2,4-Dinitrotoluene  
Concen: 6.14 ng  
RT: 9.65 min Scan# 1303  
Delta R.T. -0.21 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Tgt Ion:165 Resp: 21366  
Ion Ratio Lower Upper  
165 100  
63 1.8 25.4 38.0#  
89 2.0 46.4 69.6#  
182 0.0 1.8 2.6#



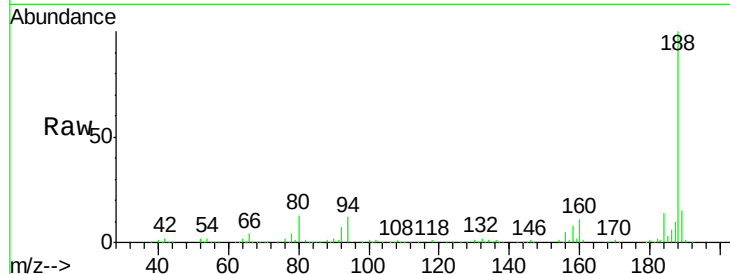




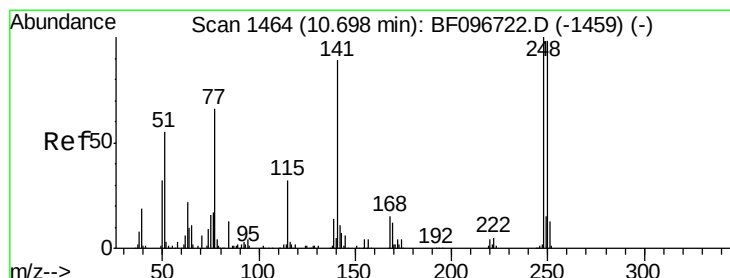
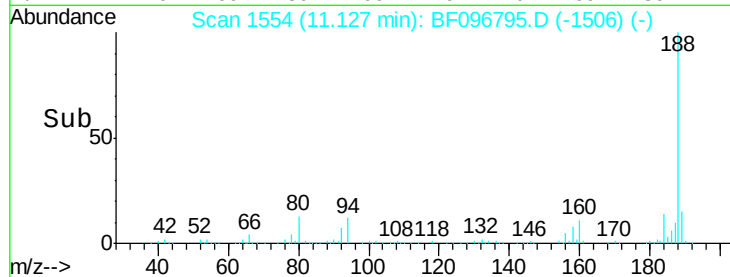
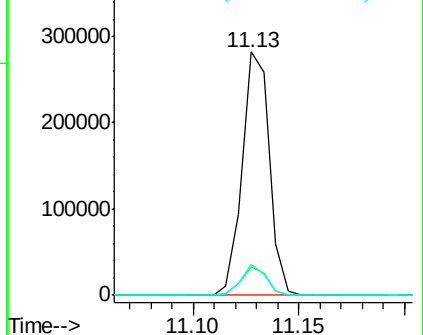
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 1554  
Delta R.T. -0.02 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 252425  
Ion Ratio Lower Upper  
188 100  
94 11.8 9.4 14.2  
80 12.6 10.2 15.2

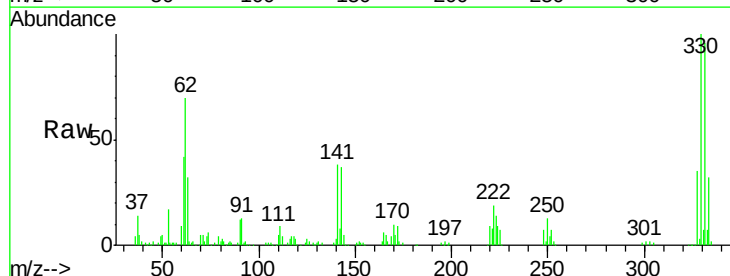


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

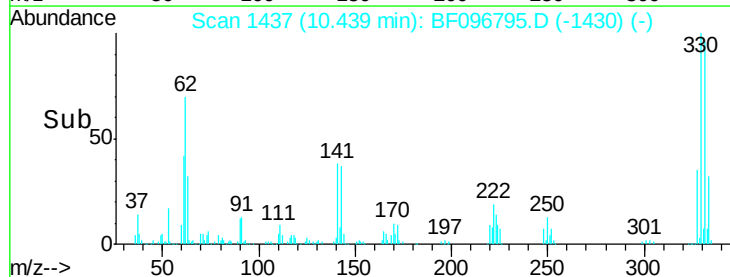
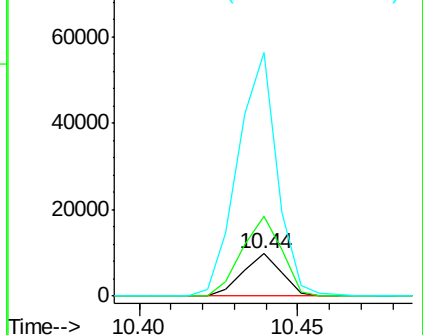


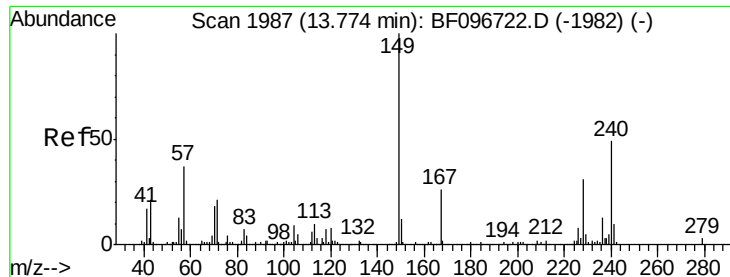
#66  
4-Bromophenyl-phenylether  
Concen: 3.21 ng  
RT: 10.44 min Scan# 1437  
Delta R.T. -0.26 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Tgt Ion:248 Resp: 8269  
Ion Ratio Lower Upper  
248 100  
250 188.9 76.8 115.2#  
141 572.3 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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

Instrument :

BNA\_F

ClientSampleId :

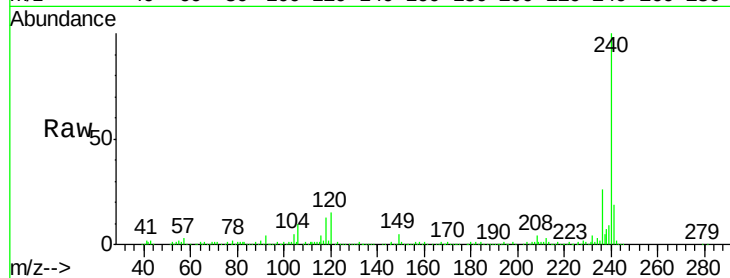
Tot Ion:240 Resp: 211420

Ion Ratio Lower Upper

240 100

120 15.3 5.8 8.8#

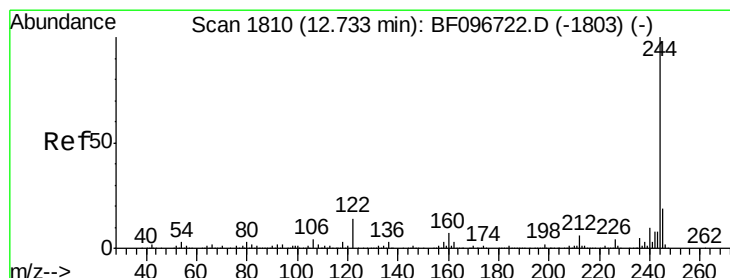
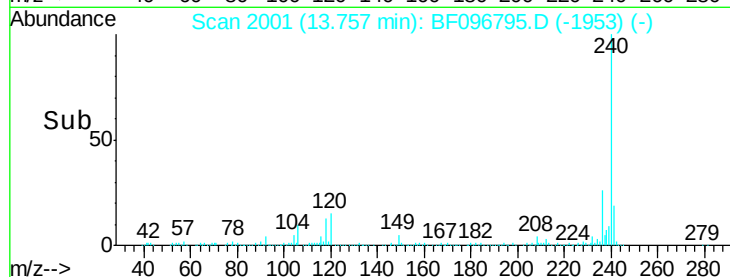
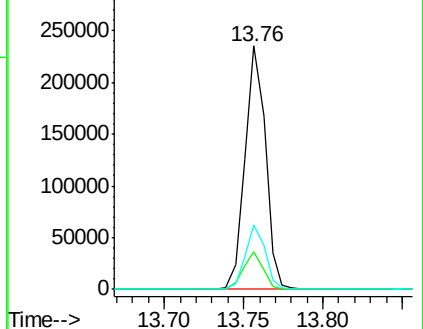
236 26.3 20.5 30.7



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



#78

Terphenyl-d14

Concen: 34.26 ng

RT: 12.72 min Scan# 1824

Delta R.T. -0.02 min

Lab File: BF096795.D

Acq: 15 Jul 2017 2:15

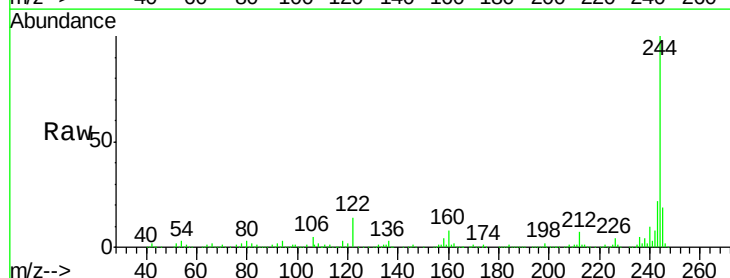
Tgt Ion:244 Resp: 417676

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

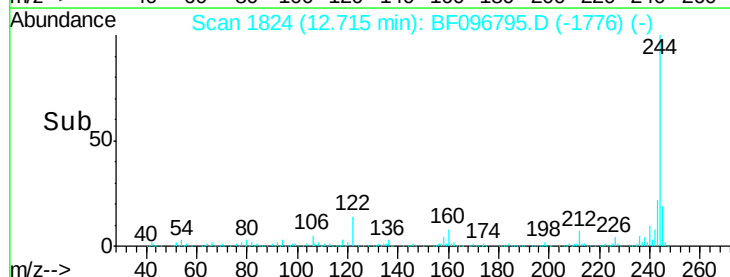
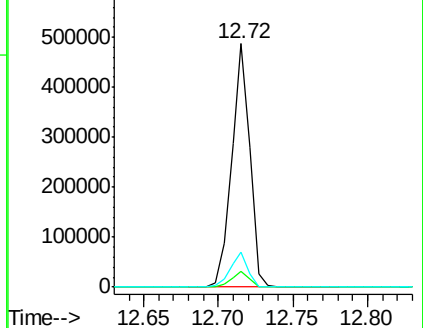
122 14.2 10.3 15.5

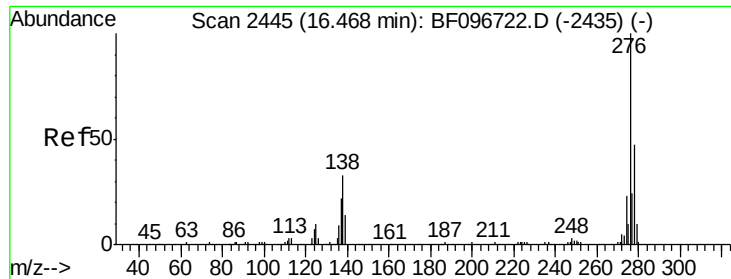


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

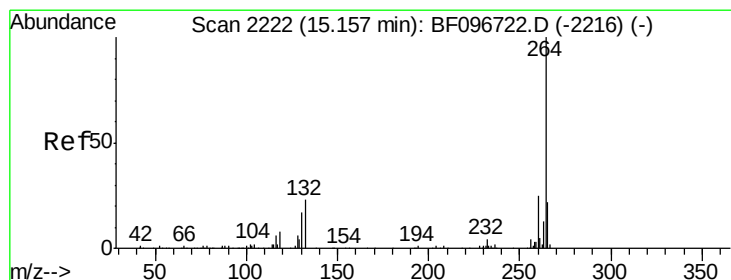
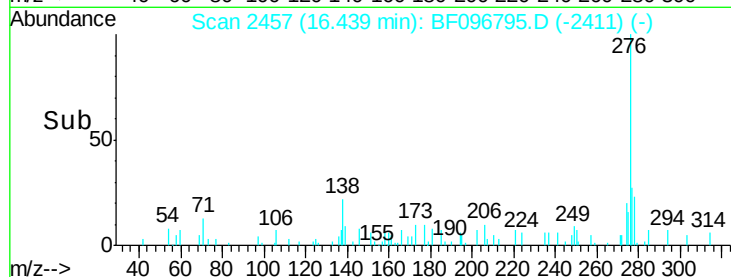
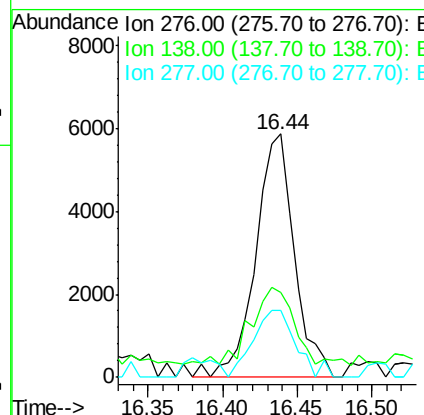
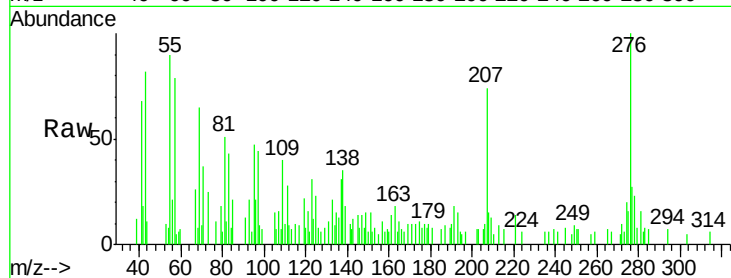




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.17 ng  
RT: 16.44 min Scan# 2457  
Delta R.T. -0.03 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

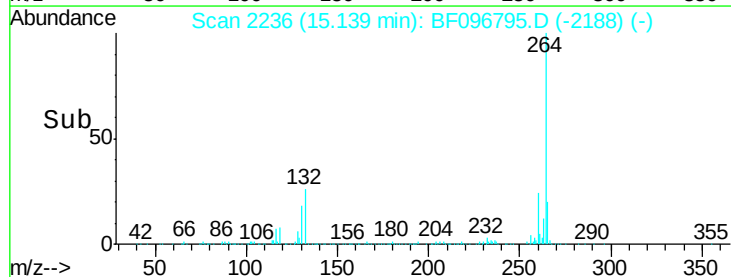
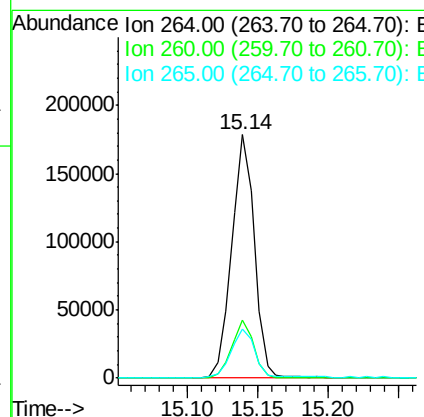
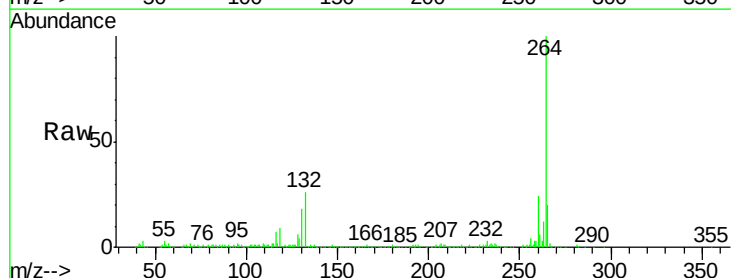
Instrument :  
BNA\_F  
ClientSampleId :

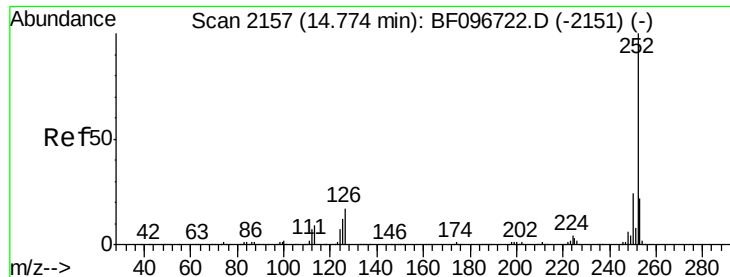
Tot Ion:276 Resp: 10524  
Ion Ratio Lower Upper  
276 100  
138 35.0 27.8 41.6  
277 30.4 20.2 30.4#



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.14 min Scan# 2236  
Delta R.T. -0.02 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Tgt Ion:264 Resp: 200237  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.5 29.3  
265 20.4 17.2 25.8

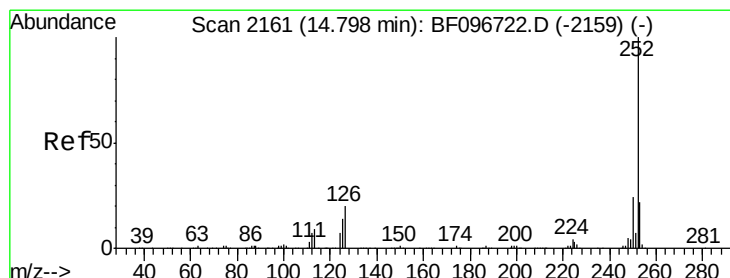
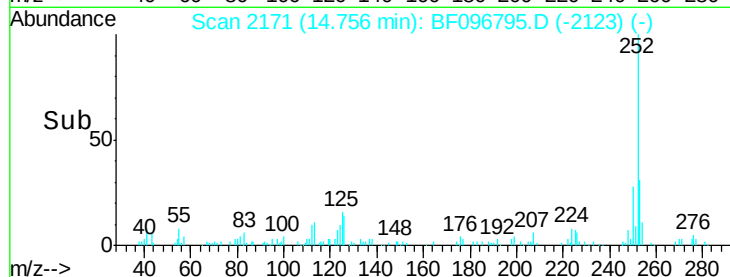
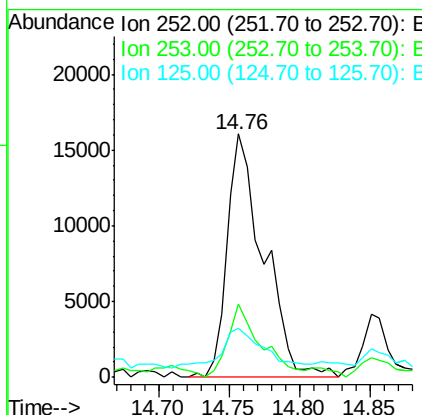
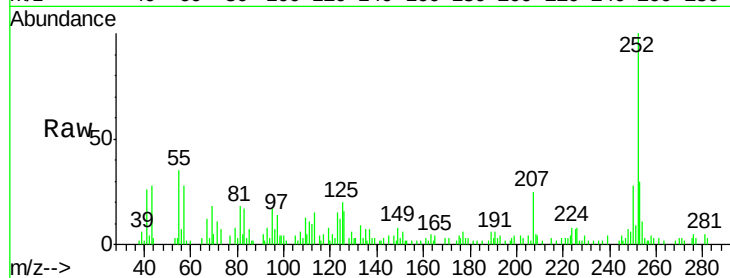




#87  
Benzo(b)fluoranthene  
Concen: 2.39 ng  
RT: 14.76 min Scan# 2171  
Delta R.T. -0.02 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.1  | 18.1  | 27.1# |
| 125     | 20.3  | 9.8   | 14.8# |



#88  
Benzo(k)fluoranthene  
Concen: 2.53 ng  
RT: 14.76 min Scan# 2171  
Delta R.T. -0.04 min  
Lab File: BF096795.D  
Acq: 15 Jul 2017 2:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.1  | 18.4  | 27.6# |
| 125     | 20.3  | 13.1  | 19.7# |

