

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062717\  
 Data File : BF096239.D  
 Acq On : 28 Jun 2017 1:52  
 Operator : SJ/MA  
 Sample : I3926-06  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 28 04:11:43 2017  
 Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF062717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 27 15:17:15 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.78  | 152  | 189470   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.06  | 136  | 753462   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.82  | 164  | 280113   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.29 | 188  | 434469   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.92 | 240  | 323954   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.35 | 264  | 238282   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.40  | 112  | 1127615  | 85.74 | ng    | 0.02     |
| 7) Phenol-d6                | 6.41  | 99   | 1409297  | 88.50 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.34  | 82   | 750030   | 68.91 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 192811   | 87.46 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 1193633  | 78.04 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.88 | 244  | 797773   | 61.45 | ng    | 0.01     |

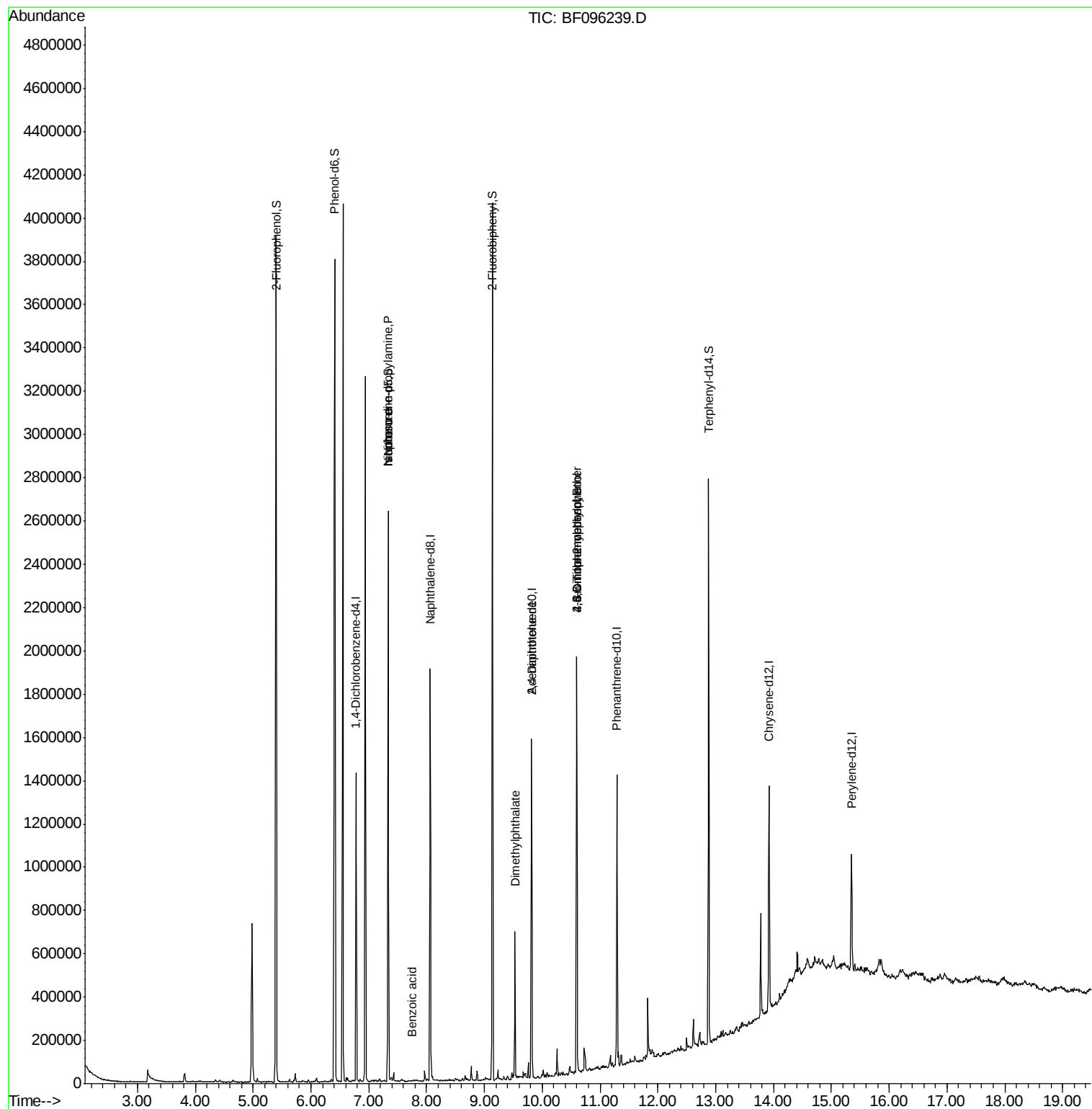
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.42  | 77   | 2467     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.34  | 70   | 98780    | 10.35     | ng    | 88     |
| 25) Isophorone                 | 7.34  | 82   | 749845   | 30.34     | ng    | 67     |
| 32) Benzoic acid               | 7.74  | 122  | 365      | 8.82      | ng    | 87     |
| 49) Dimethylphthalate          | 9.53  | 163  | 226378   | 11.29     | ng    | 99     |
| 56) 2,4-Dinitrotoluene         | 9.82  | 165  | 36788    | 7.00      | ng    | 34     |
| 64) 4,6-Dinitro-2-methylphenol | 10.60 | 198  | 221      | 8.83      | ng    | 1      |
| 66) 4-Bromophenyl-phenylether  | 10.60 | 248  | 13000    | 2.91      | ng    | 1      |
| 70) Phenanthrene               | 11.32 | 178  | 18103    | Below Cal |       | 96     |

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

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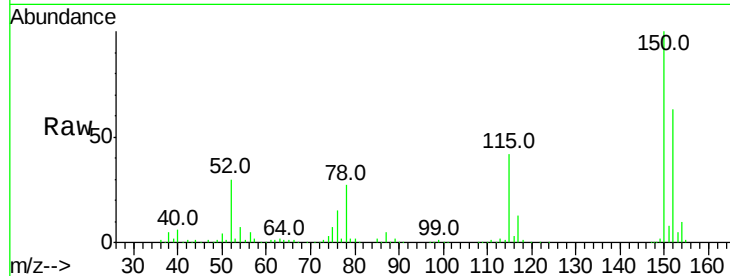


#1

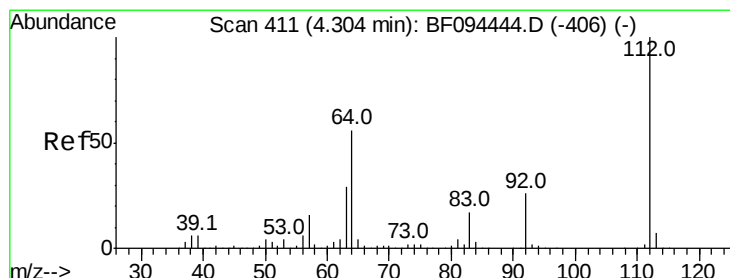
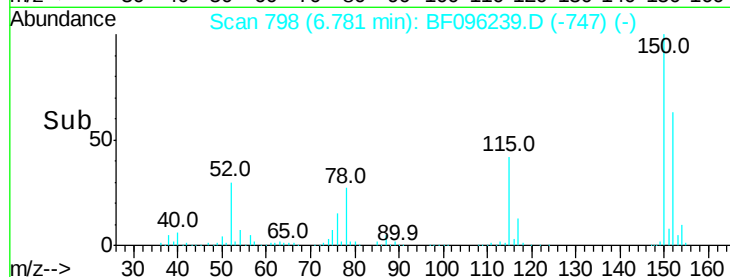
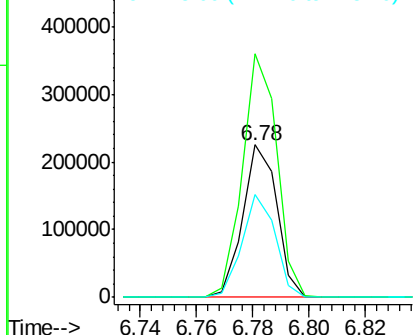
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.78 min Scan# 798  
Delta R.T. -0.00 min  
Lab File: BF096239.D  
Acq: 28 Jun 2017 1:52

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 189470  
Ion Ratio Lower Upper  
152 100  
150 159.6 126.2 189.2  
115 67.2 52.2 78.2



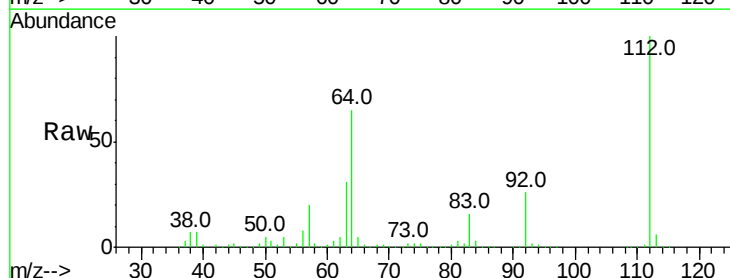
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



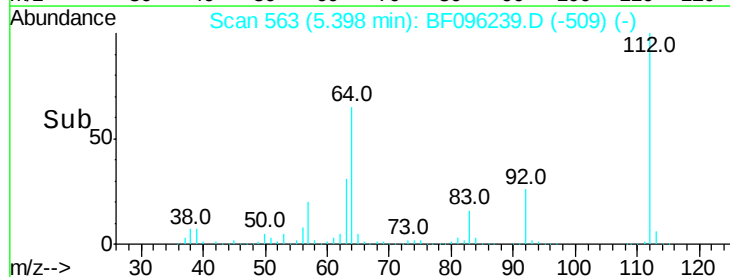
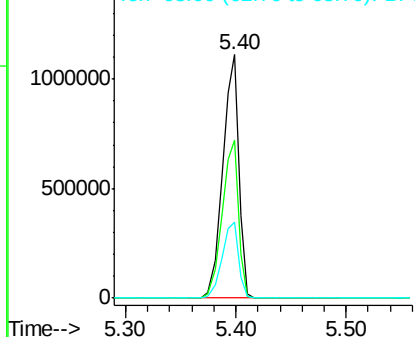
#5

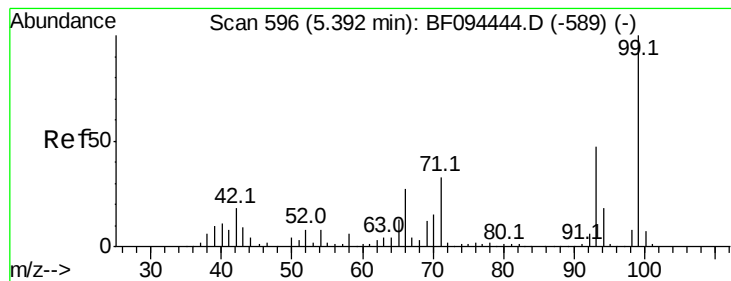
2-Fluorophenol  
Concen: 85.74 ng  
RT: 5.40 min Scan# 563  
Delta R.T. 0.02 min  
Lab File: BF096239.D  
Acq: 28 Jun 2017 1:52

Tgt Ion:112 Resp: 1127615  
Ion Ratio Lower Upper  
112 100  
64 64.7 46.0 69.0  
63 31.2 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: 88.50 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.02 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

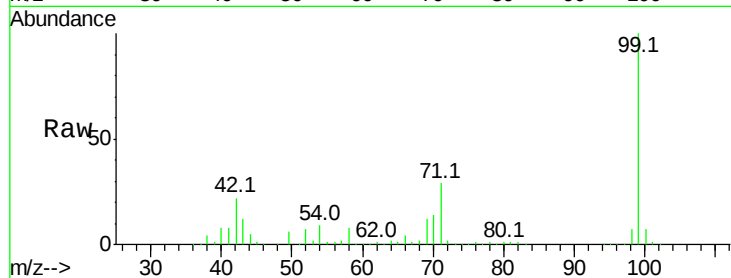
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1409297

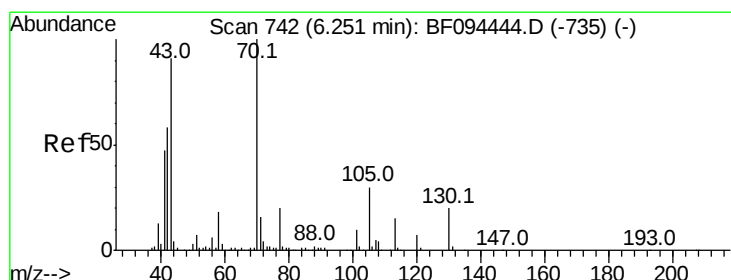
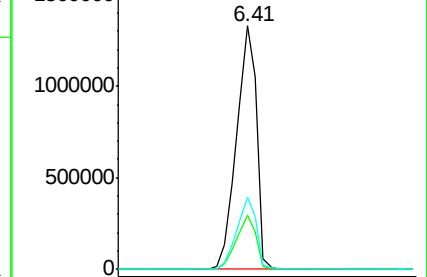
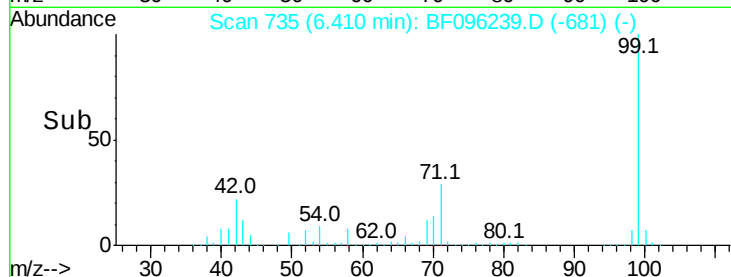
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.0  | 13.5  | 20.3# |
| 71  | 29.4  | 24.5  | 36.7  |



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: 10.35 ng

RT: 7.34 min Scan# 893

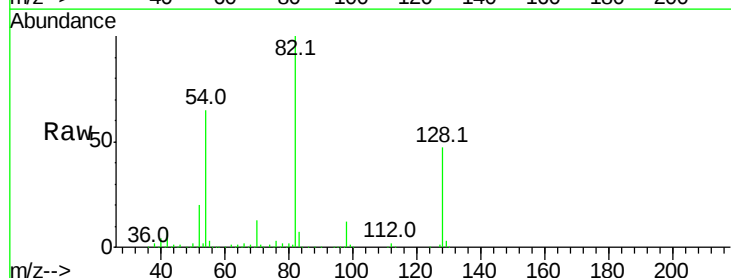
Delta R.T. 0.16 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

Tgt Ion: 70 Resp: 98780

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 58.2  | 47.2  | 70.8  |
| 101 | 0.0   | 7.2   | 10.8# |
| 130 | 2.6   | 15.9  | 23.9# |

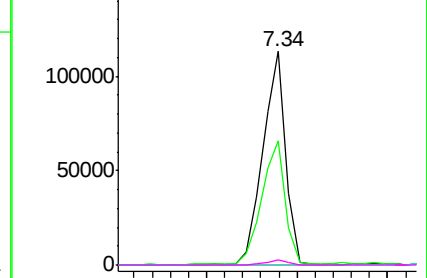
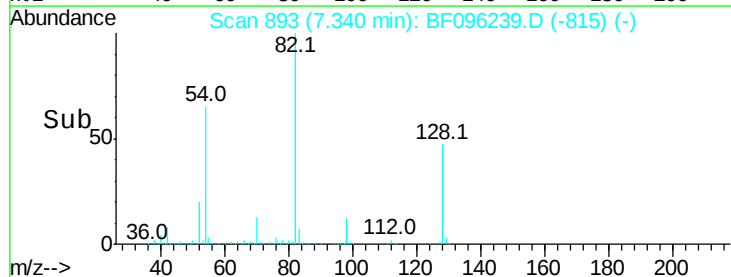


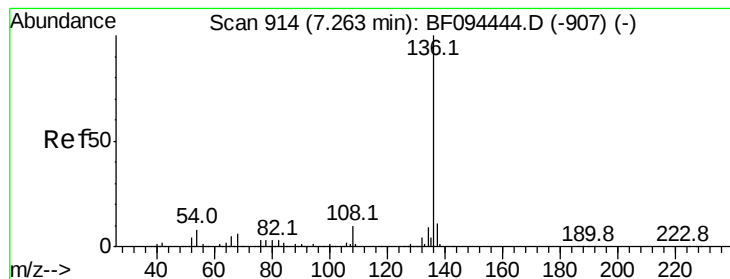
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.06 min Scan# 1016

Delta R.T. 0.01 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 753462

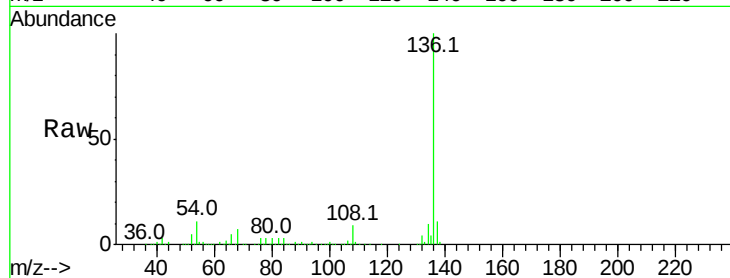
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 11.3 4.9 7.3#

68 7.3 4.1 6.1#

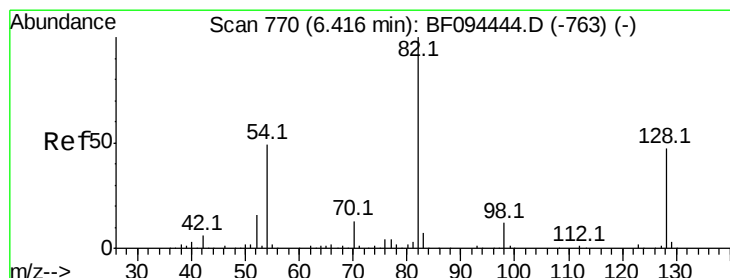
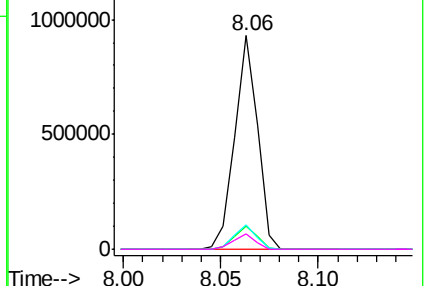
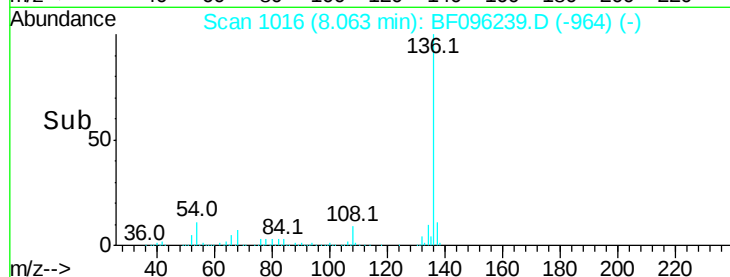


Abundance Ion 136.00 (135.70 to 136.70): E

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: 68.91 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.02 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

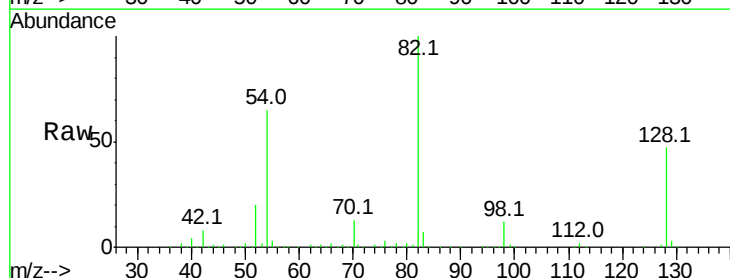
Tgt Ion: 82 Resp: 750030

Ion Ratio Lower Upper

82 100

128 46.6 34.0 51.0

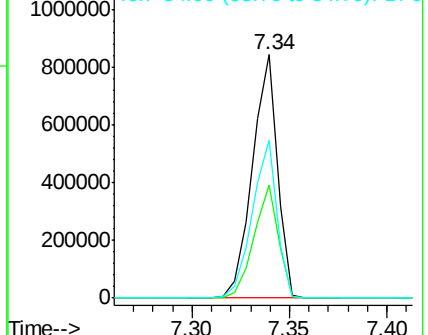
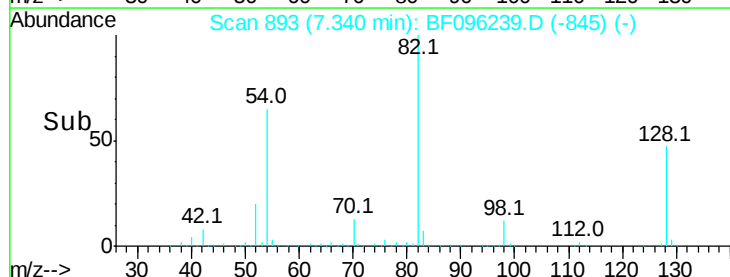
54 64.9 42.2 63.2#

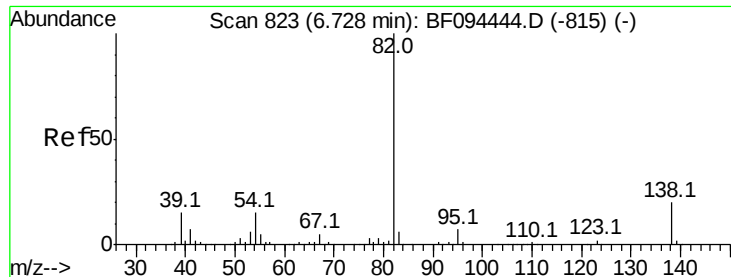


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 30.34 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.25 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

Instrument :

BNA\_F

ClientSampleId :

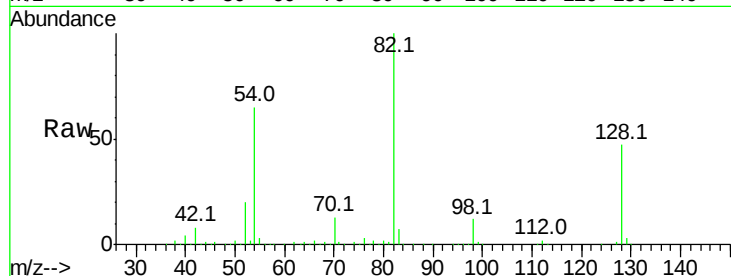
Tot Ion: 82 Resp: 749845

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

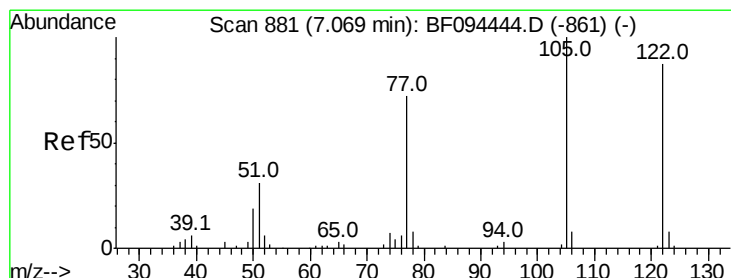
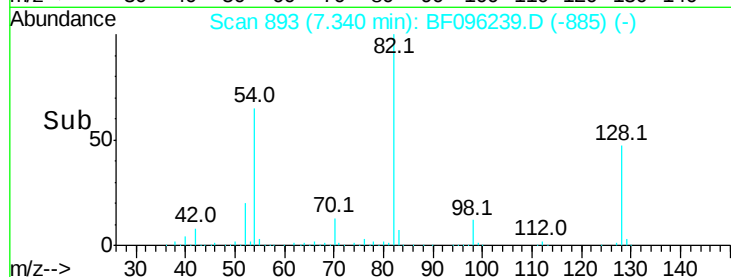
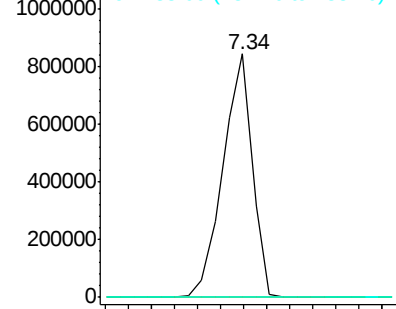
138 0.0 13.1 19.7#



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): E



#32

Benzoic acid

Concen: 8.82 ng

RT: 7.74 min Scan# 961

Delta R.T. -0.15 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

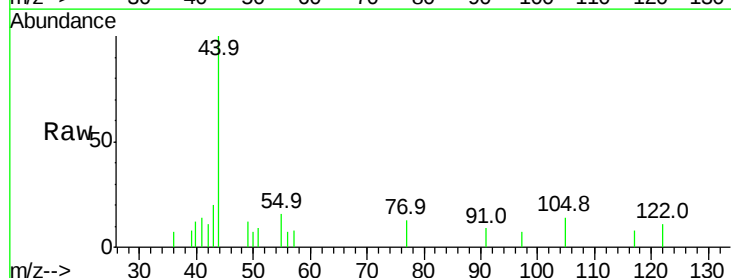
Tgt Ion:122 Resp: 365

Ion Ratio Lower Upper

122 100

105 126.8 103.3 143.3

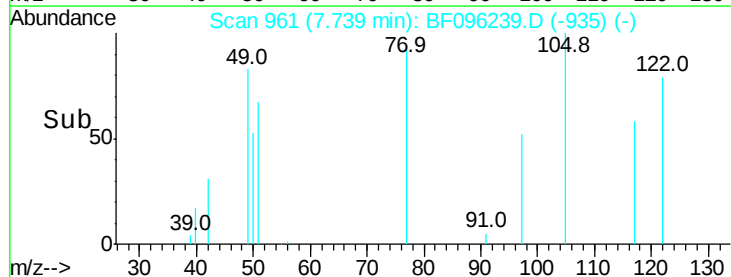
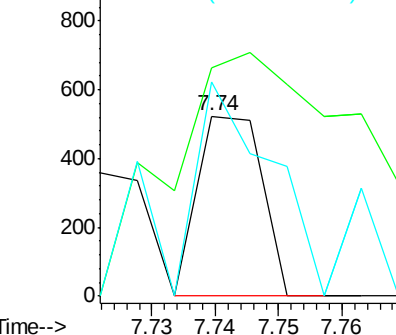
77 119.3 73.7 113.7#

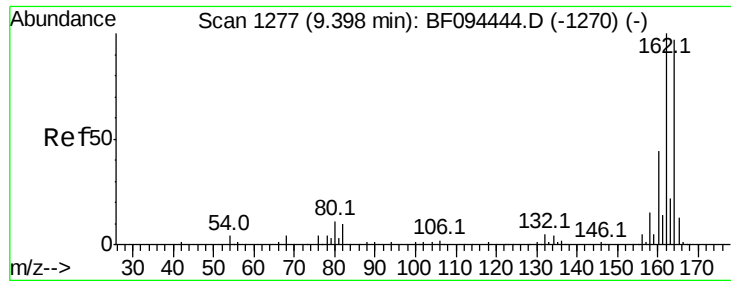


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

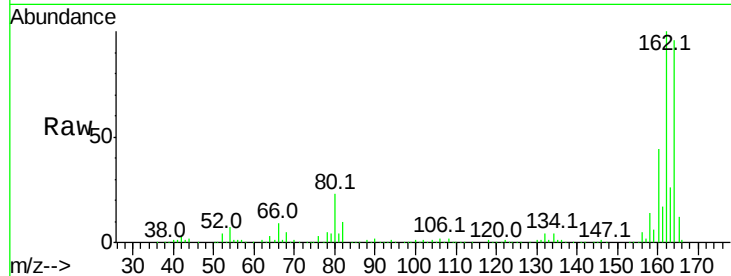




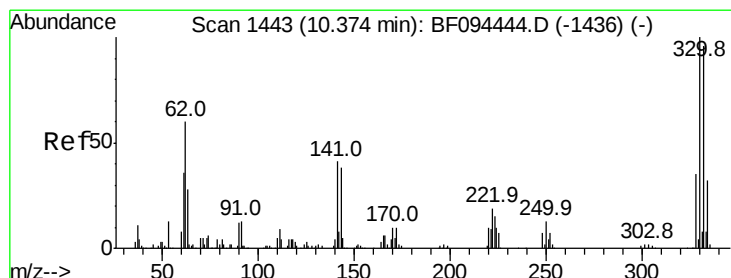
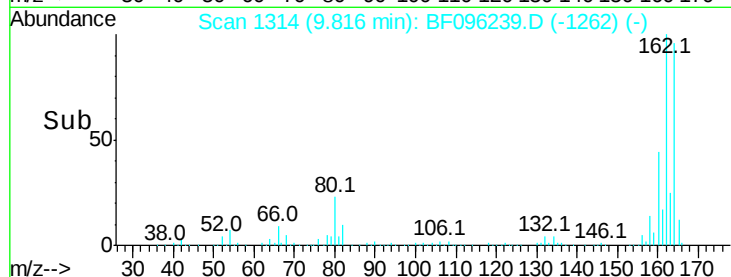
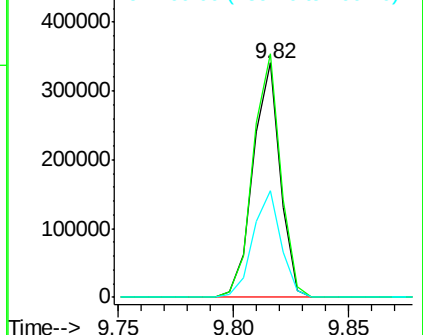
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.82 min Scan# 1314  
Delta R.T. 0.01 min  
Lab File: BF096239.D  
Acq: 28 Jun 2017 1:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 280113  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.6 123.8  
160 45.4 36.2 54.2

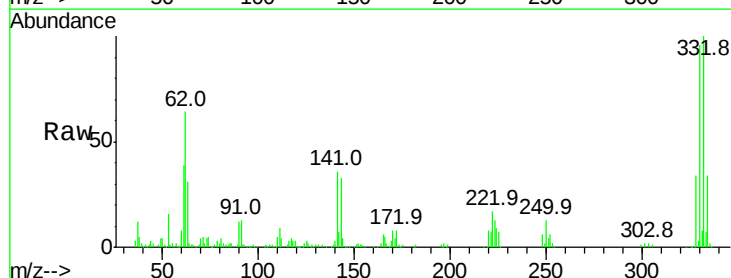


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

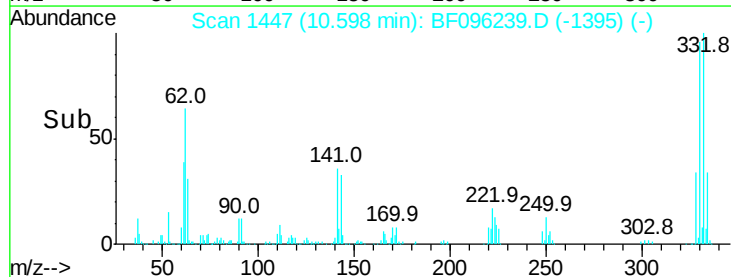
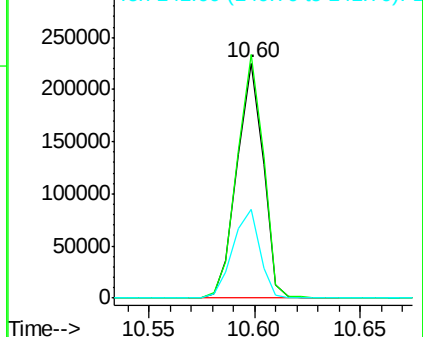


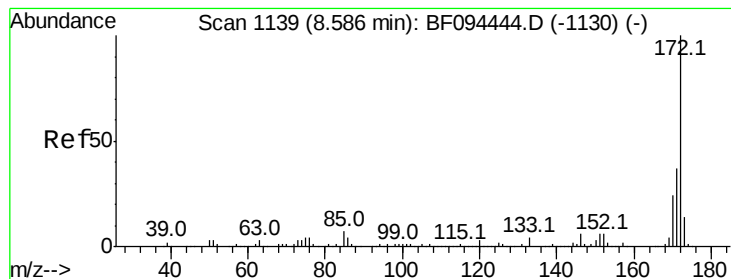
#41  
2,4,6-Tribromophenol  
Concen: 87.46 ng  
RT: 10.60 min Scan# 1447  
Delta R.T. 0.01 min  
Lab File: BF096239.D  
Acq: 28 Jun 2017 1:52

Tgt Ion:330 Resp: 192811  
Ion Ratio Lower Upper  
330 100  
332 103.8 76.6 115.0  
141 39.0 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: 78.04 ng

RT: 9.14 min Scan# 1199

Delta R.T. -0.01 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

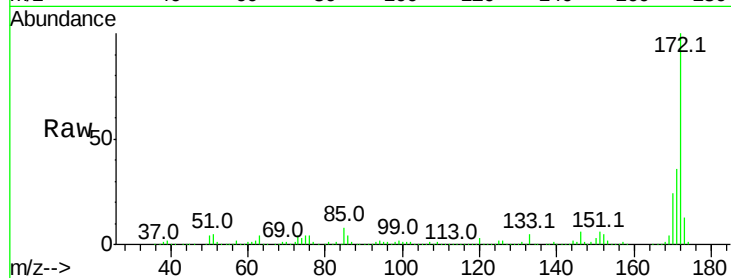
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:172 Resp: 1193633

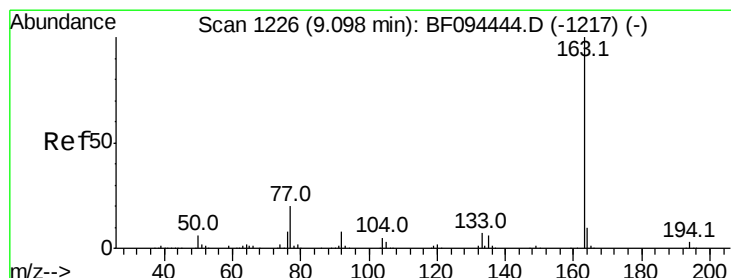
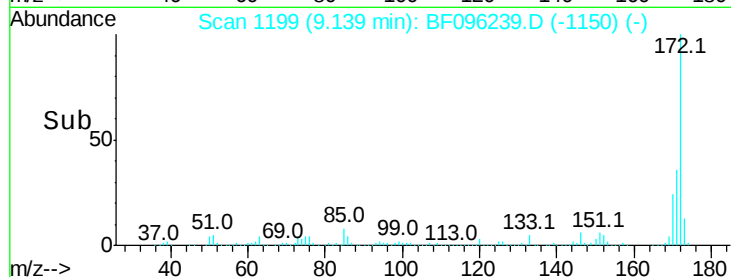
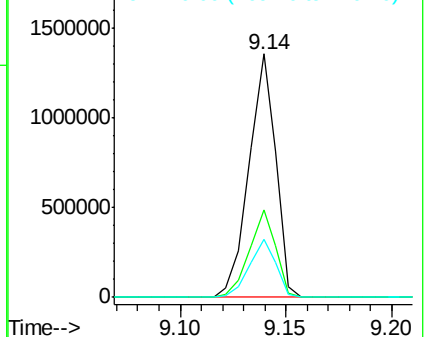
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.9  | 29.6  | 44.4  |
| 170 | 24.0  | 19.8  | 29.8  |



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: 11.29 ng

RT: 9.53 min Scan# 1265

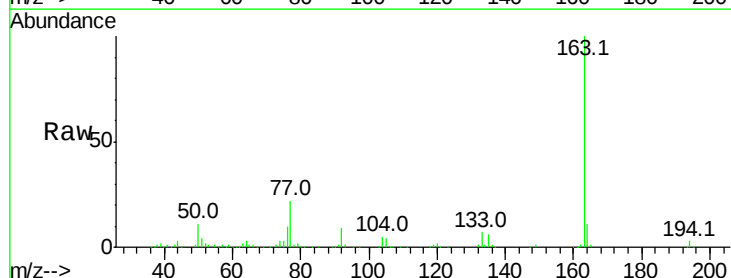
Delta R.T. -0.00 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

Tgt Ion:163 Resp: 226378

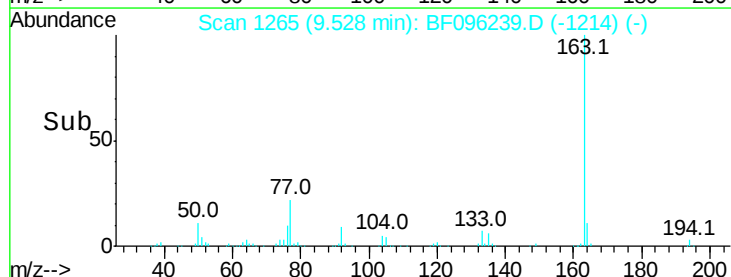
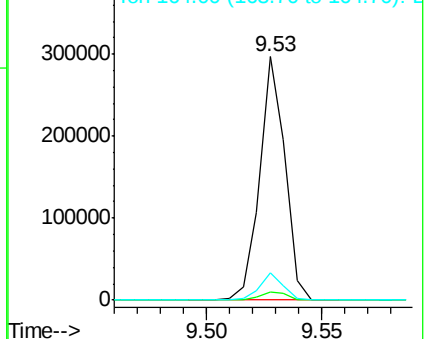
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 3.2   | 2.6   | 4.0   |
| 164 | 11.0  | 8.4   | 12.6  |

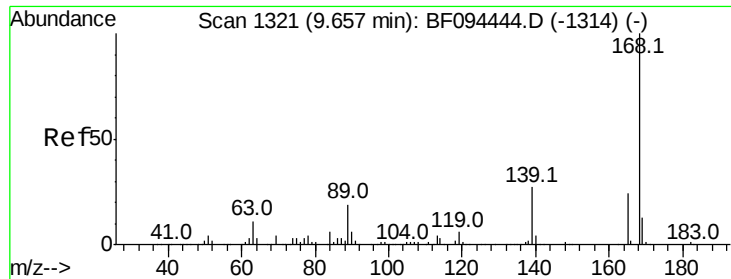


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

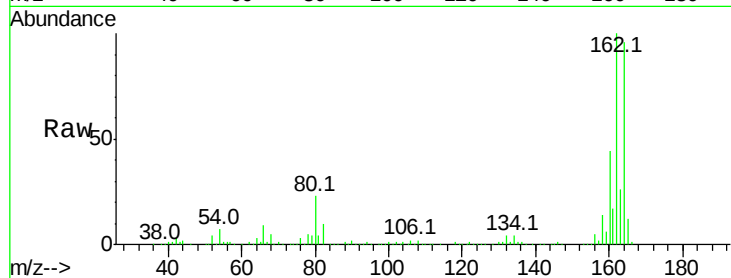




#56  
 2,4-Dinitrotoluene  
 Concen: 7.00 ng  
 RT: 9.82 min Scan# 1314  
 Delta R.T. -0.19 min  
 Lab File: BF096239.D  
 Acq: 28 Jun 2017 1:52

Instrument :  
 BNA\_F  
 ClientSampleId :

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

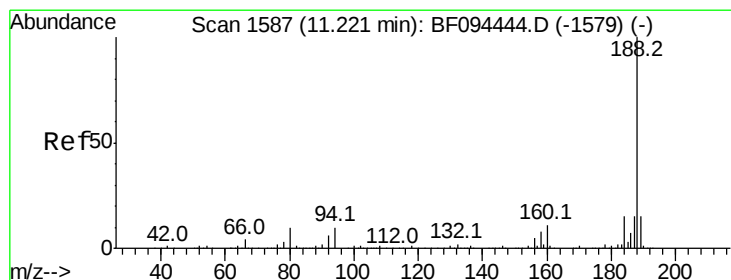
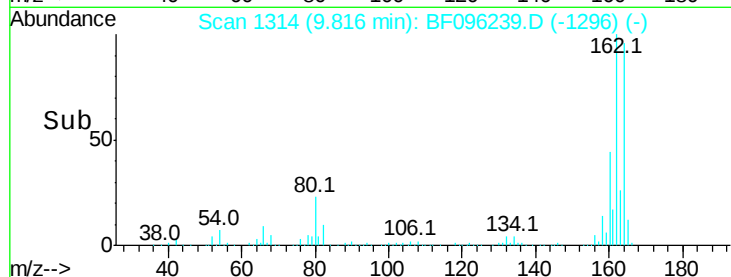
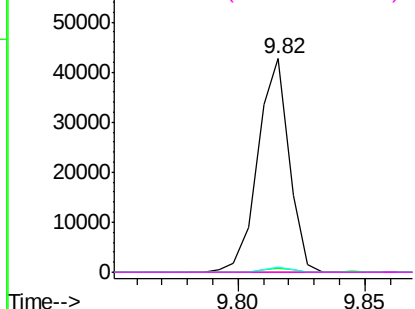


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

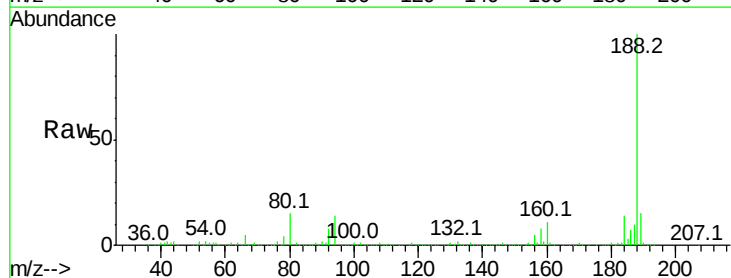
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.29 min Scan# 1565  
 Delta R.T. 0.01 min  
 Lab File: BF096239.D  
 Acq: 28 Jun 2017 1:52

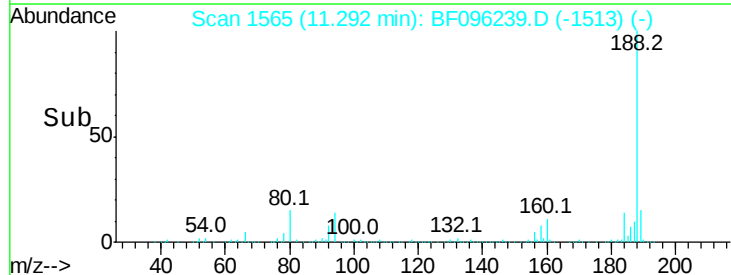
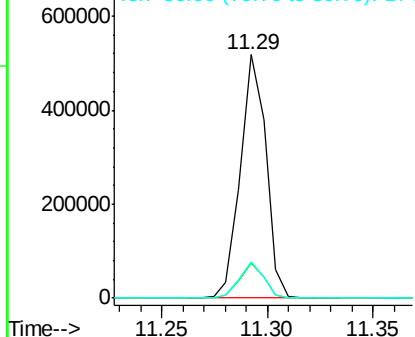
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 14.1  | 9.4   | 14.2  |
| 80      | 15.1  | 10.2  | 15.2  |

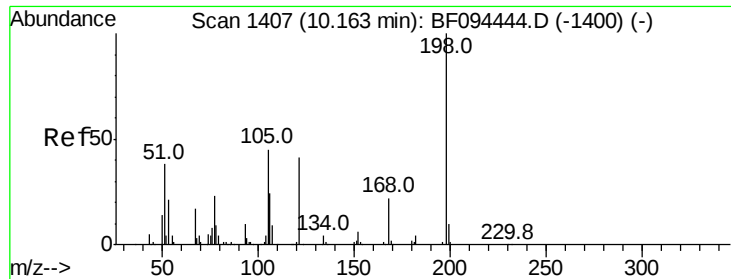


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 8.83 ng

RT: 10.60 min Scan# 1447

Delta R.T. 0.18 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

Instrument :

BNA\_F

ClientSampleId :

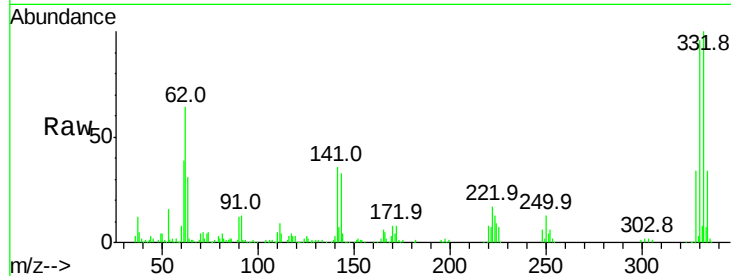
Tot Ion:198 Resp: 221

Ion Ratio Lower Upper

198 100

51 261.2 53.2 93.2#

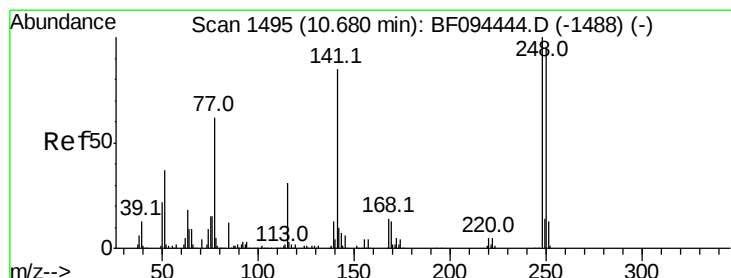
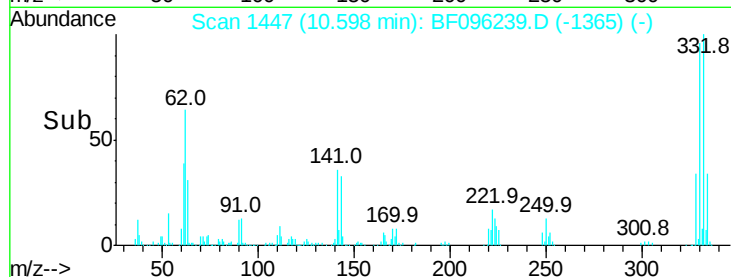
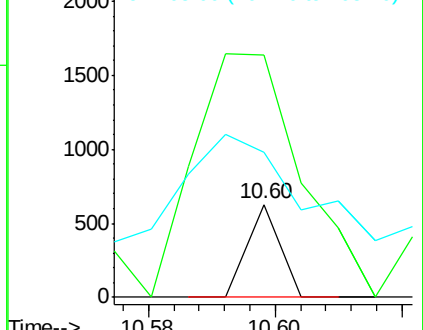
105 156.5 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 2.91 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.24 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

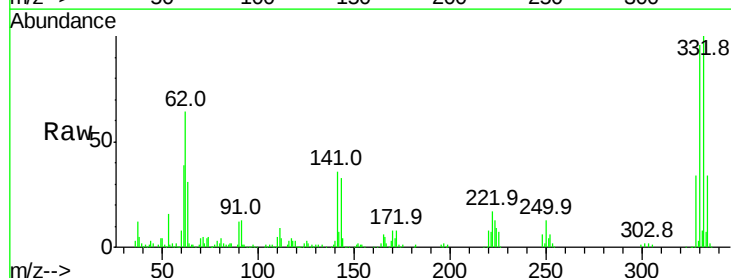
Tgt Ion:248 Resp: 13000

Ion Ratio Lower Upper

248 100

250 207.1 76.8 115.2#

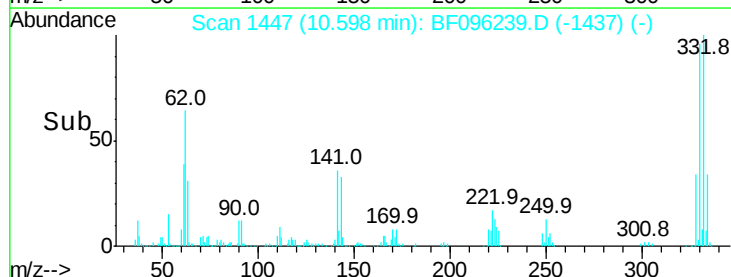
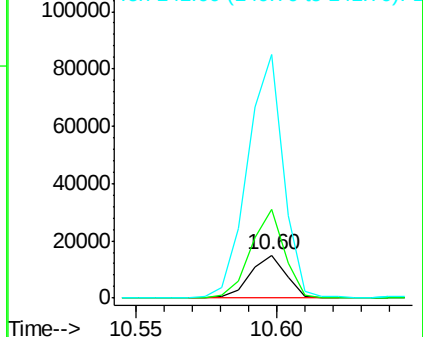
141 565.6 68.6 103.0#

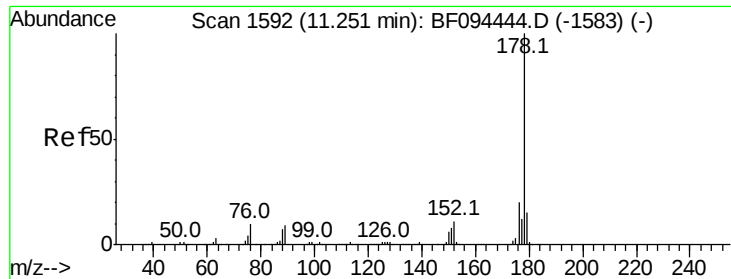


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: Below Cal

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

Instrument :

BNA\_F

ClientSampleId :

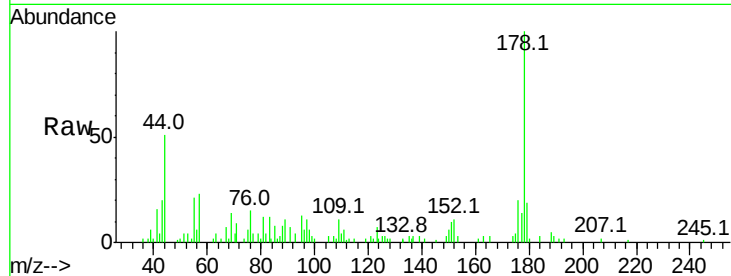
Tot Ion:178 Resp: 18103

Ion Ratio Lower Upper

178 100

176 19.6 16.2 24.4

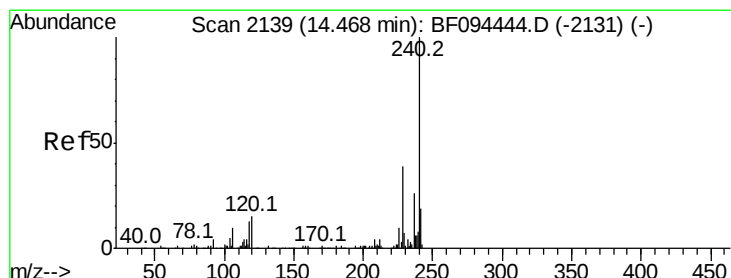
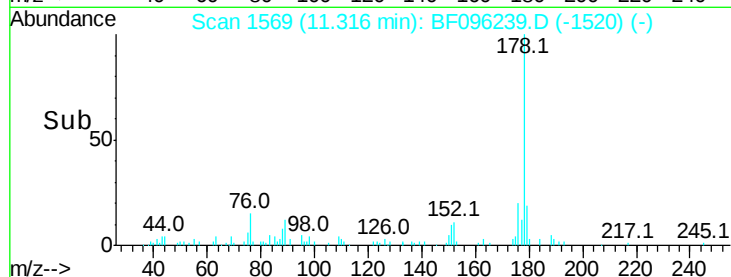
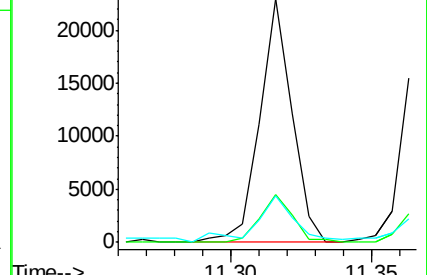
179 18.9 12.6 19.0



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

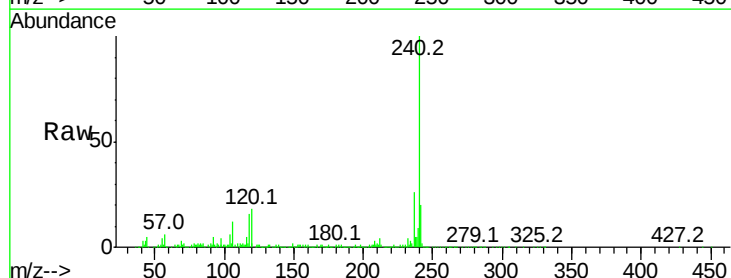
Tgt Ion:240 Resp: 323954

Ion Ratio Lower Upper

240 100

120 18.3 5.8 8.8#

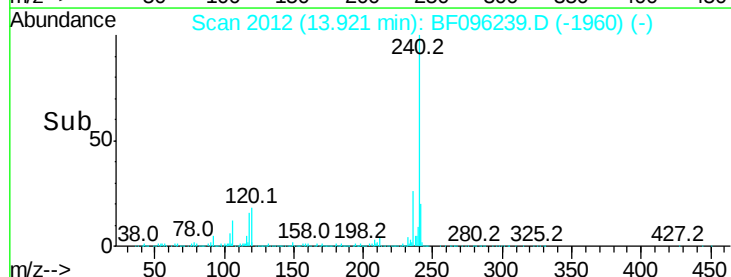
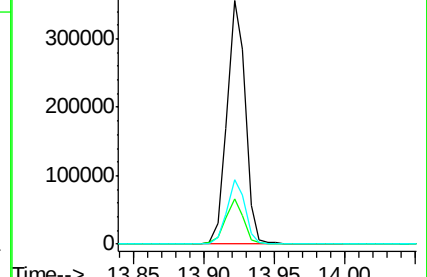
236 26.2 20.5 30.7

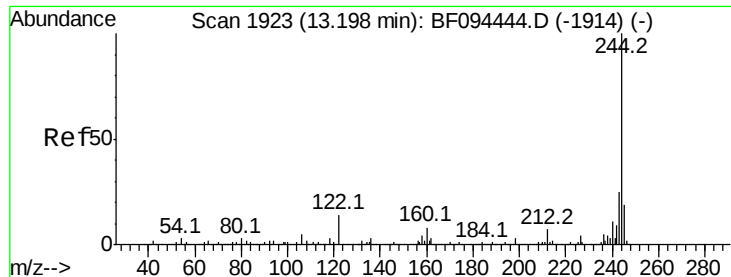


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 61.45 ng

RT: 12.88 min Scan# 1835

Delta R.T. 0.01 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

Instrument :

BNA\_F

ClientSampled :

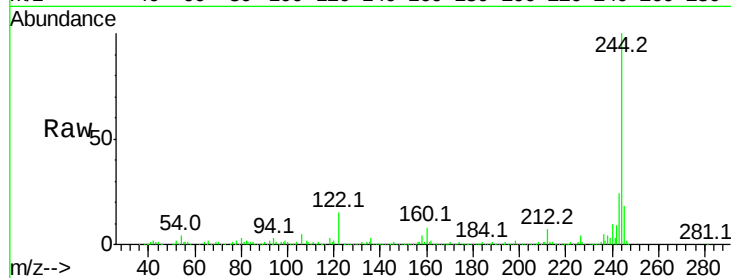
Tot Ion:244 Resp: 797773

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

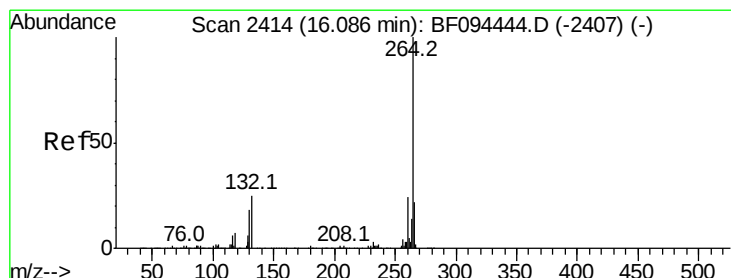
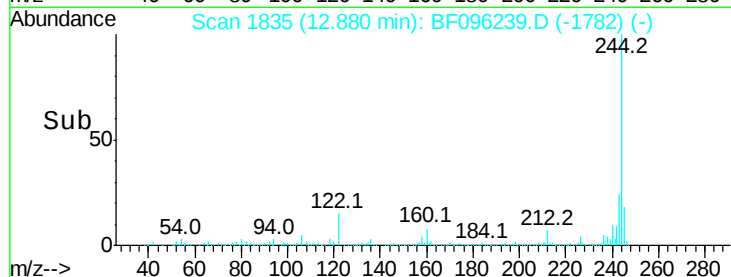
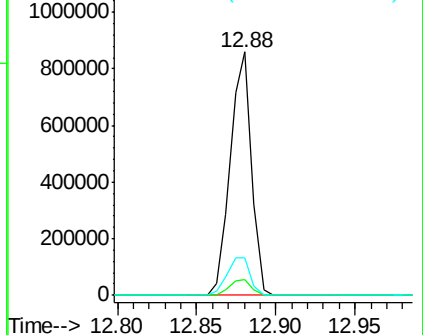
122 15.4 10.3 15.5



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.35 min Scan# 2255

Delta R.T. 0.01 min

Lab File: BF096239.D

Acq: 28 Jun 2017 1:52

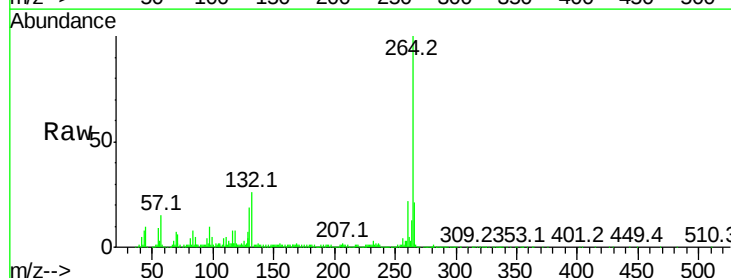
Tgt Ion:264 Resp: 238282

Ion Ratio Lower Upper

264 100

260 22.1 19.5 29.3

265 20.6 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

