

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\  
 Data File : BF096344.D  
 Acq On : 30 Jun 2017 18:55  
 Operator : SJ/MA  
 Sample : I3955-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 30 23:15:23 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 15:41:49 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.76  | 152  | 136786   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.04  | 136  | 518783   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.80  | 164  | 116556   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.30 | 188  | 142588   | 20.00 | ng    | 0.02     |
| 75) Chrysene-d12          | 13.94 | 240  | 103740   | 20.00 | ng    | 0.02     |
| 86) Perylene-d12          | 15.37 | 264  | 123677   | 20.00 | ng    | 0.04     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.36  | 112  | 30956    | 3.26  | ng    | -0.02    |
| 7) Phenol-d6                | 6.38  | 99   | 38587    | 3.36  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 124292   | 16.59 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 24201    | 26.38 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 185821   | 29.20 | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.89 | 244  | 73911    | 17.78 | ng    | 0.02     |

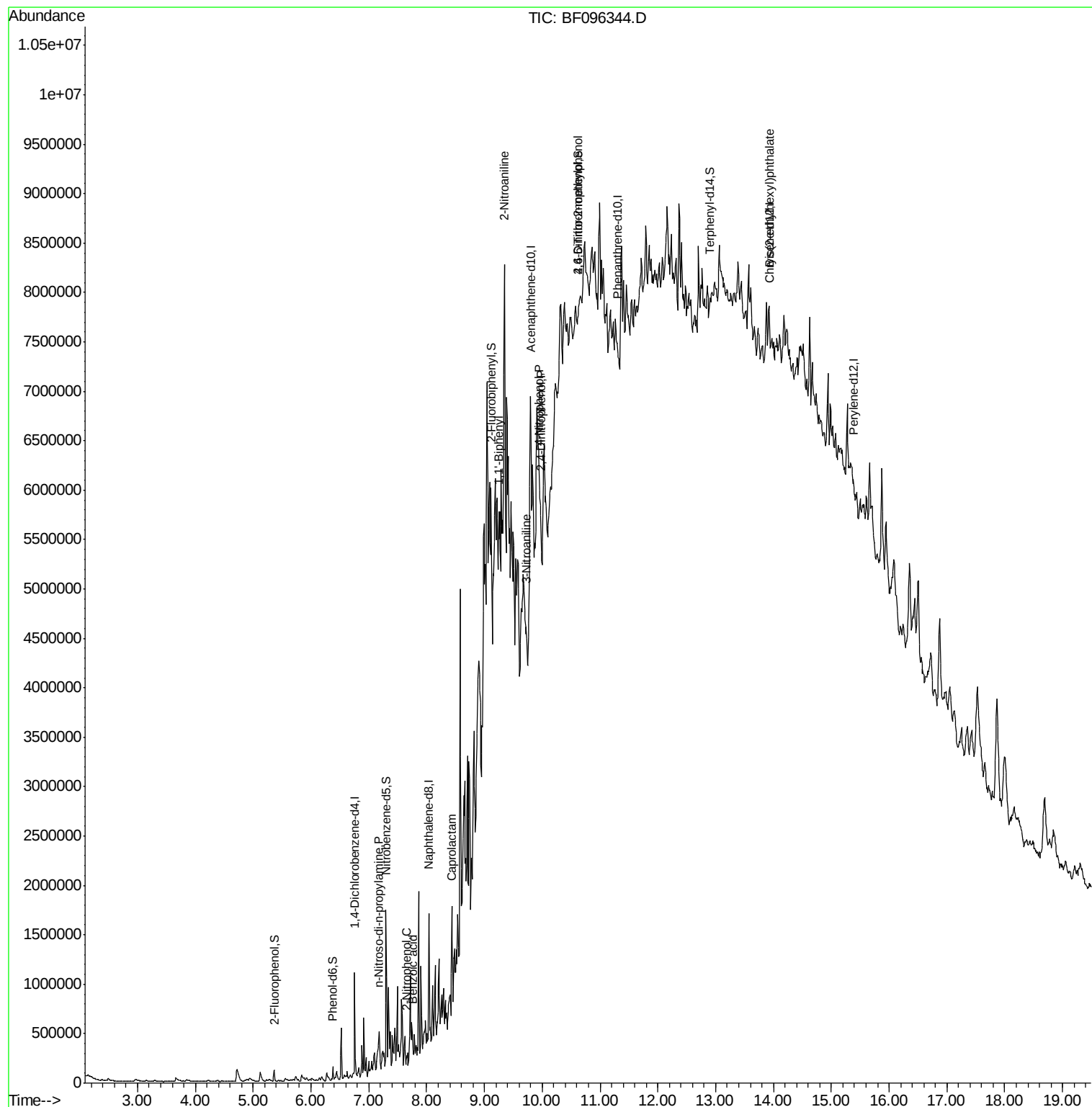
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.34  | 77   | 107      | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.18  | 70   | 27801    | 4.04      | ng    | 62     |
| 26) 2-Nitrophenol              | 7.66  | 139  | 770      | 6.22      | ng    | 1      |
| 32) Benzoic acid               | 7.77  | 122  | 128      | 8.81      | ng    | 1      |
| 35) Caprolactam                | 8.43  | 113  | 4602     | 2.03      | ng    | 1      |
| 45) 1,1'-Biphenyl              | 9.24  | 154  | 21313    | 2.38      | ng    | 78     |
| 47) 2-Nitroaniline             | 9.35  | 65   | 12679    | 5.41      | ng    | 21     |
| 52) 3-Nitroaniline             | 9.73  | 138  | 5215     | 2.35      | ng    | 16     |
| 53) 2,4-Dinitrophenol          | 9.98  | 184  | 119      | 7.75      | ng    | 1      |
| 55) 4-Nitrophenol              | 9.96  | 139  | 11028    | 6.14      | ng    | 48     |
| 57) Fluorene                   | 10.36 | 166  | 860      | Below Cal | #     | 1      |
| 60) 4-Chlorophenyl-phenylether | 10.19 | 204  | 110      | Below Cal | #     | 1      |
| 64) 4,6-Dinitro-2-methylphenol | 10.60 | 198  | 107      | 8.87      | ng    | 1      |
| 70) Phenanthrene               | 11.32 | 178  | 6178     | Below Cal | #     | 1      |
| 83) Bis(2-ethylhexyl)phthalate | 13.93 | 149  | 88968    | 20.95     | ng    | 76     |

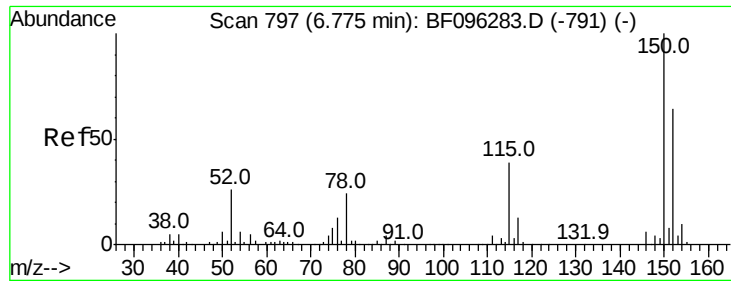
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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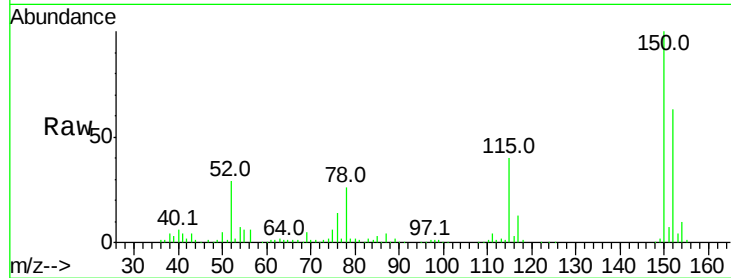


#1

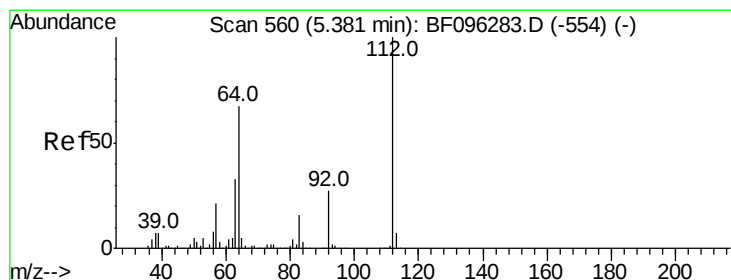
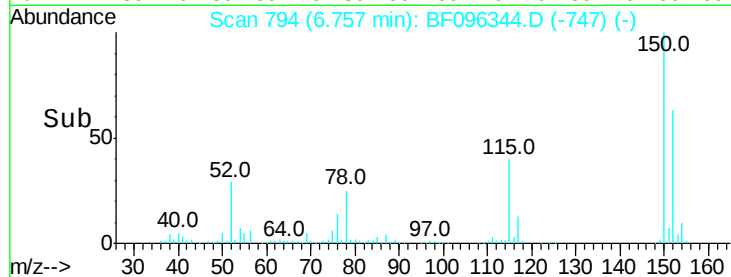
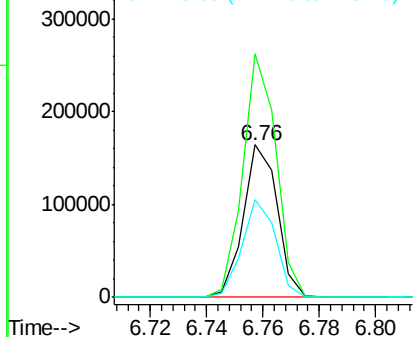
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.76 min Scan# 794  
Delta R.T. -0.02 min  
Lab File: BF096344.D  
Acq: 30 Jun 2017 18:55

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 136786  
Ion Ratio Lower Upper  
152 100  
150 159.5 126.2 189.2  
115 64.1 52.2 78.2



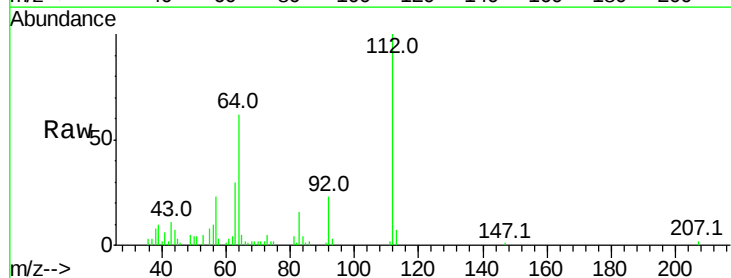
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



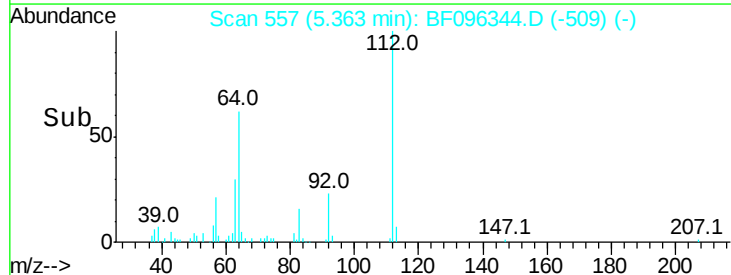
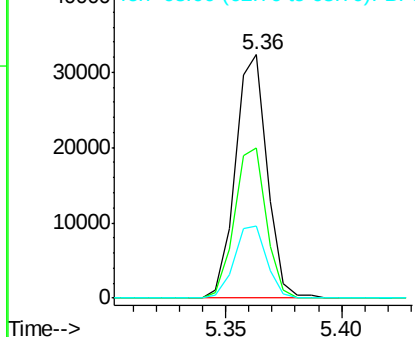
#5

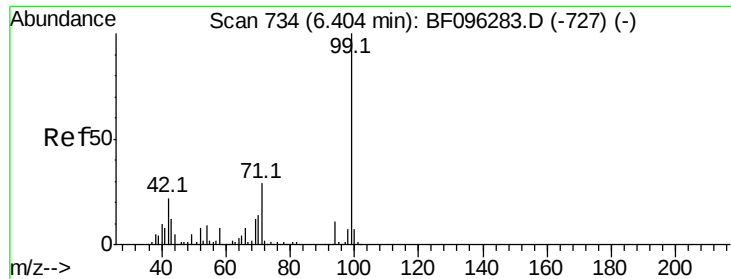
2-Fluorophenol  
Concen: 3.26 ng  
RT: 5.36 min Scan# 557  
Delta R.T. -0.02 min  
Lab File: BF096344.D  
Acq: 30 Jun 2017 18:55

Tgt Ion:112 Resp: 30956  
Ion Ratio Lower Upper  
112 100  
64 61.9 46.0 69.0  
63 29.8 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: 3.36 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :

BNA\_F

ClientSampleId :

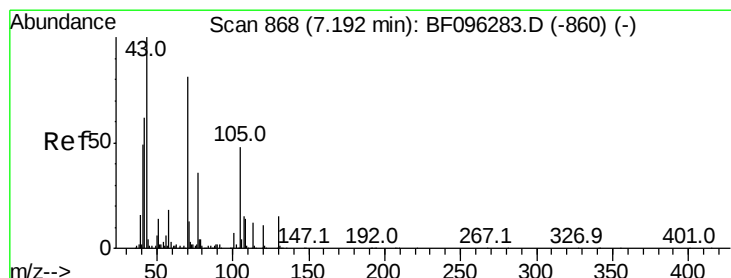
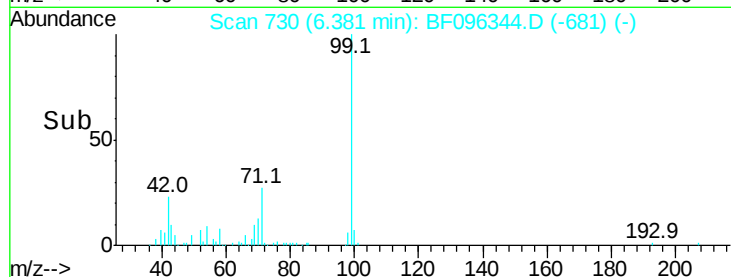
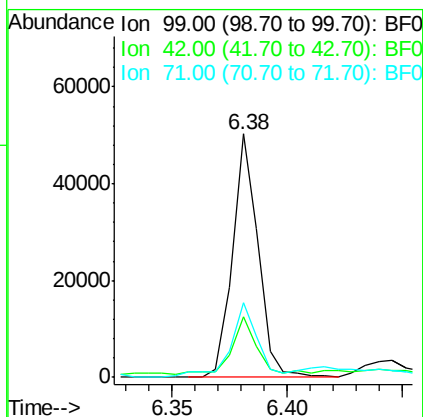
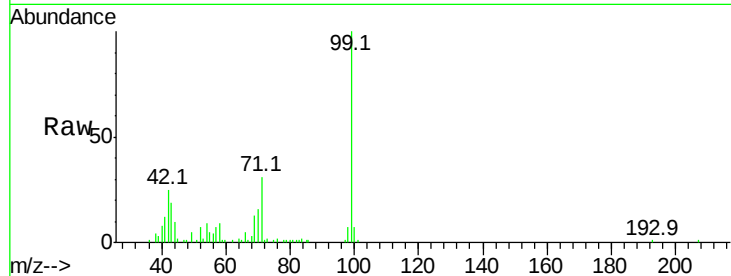
Tot Ion: 99 Resp: 38587

Ion Ratio Lower Upper

99 100

42 24.7 13.5 20.3#

71 30.5 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 4.04 ng

RT: 7.18 min Scan# 866

Delta R.T. -0.00 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Tgt Ion: 70 Resp: 27801

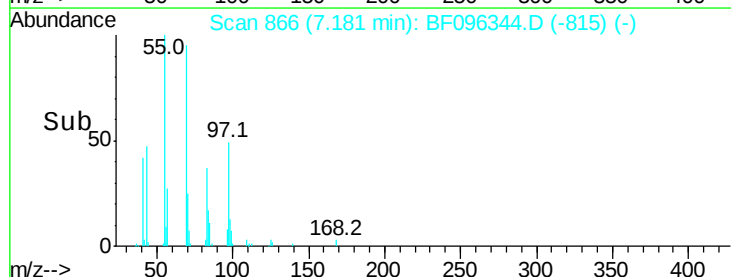
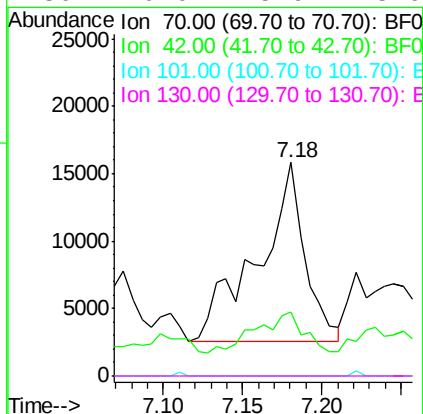
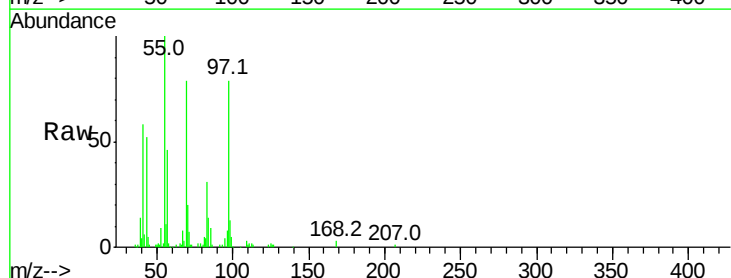
Ion Ratio Lower Upper

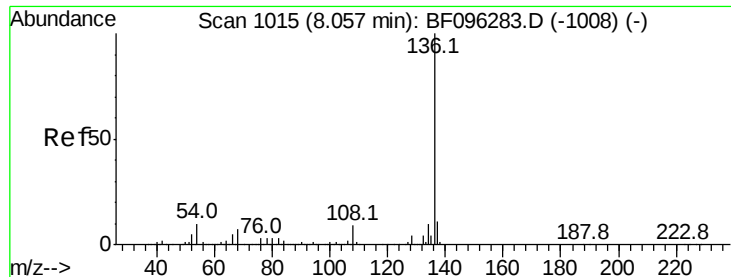
70 100

42 30.2 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 1012

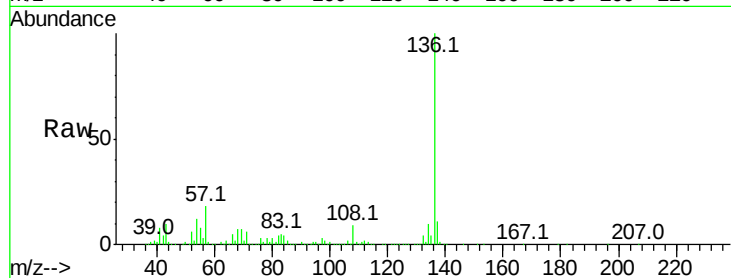
Delta R.T. -0.02 min

Lab File: BF096344.D

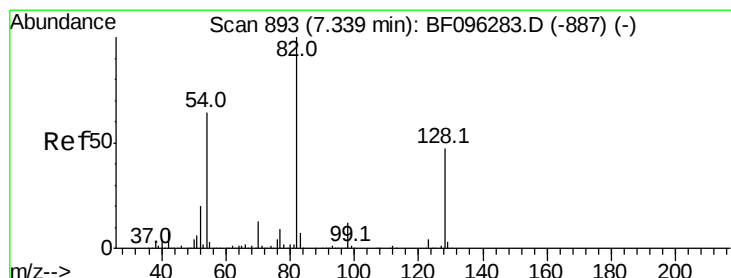
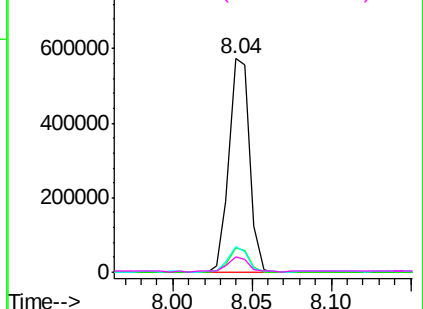
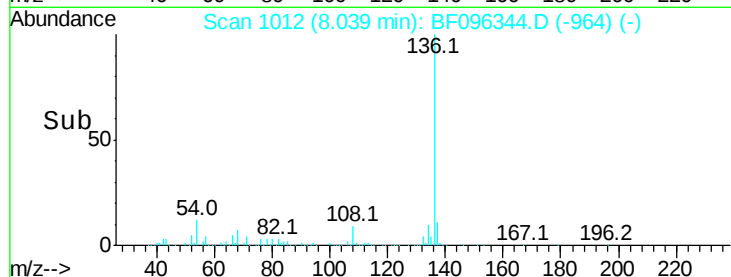
Acq: 30 Jun 2017 18:55

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 518783   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 8.5 12.7 |
| 54          | 11.9  | 4.9 7.3# |
| 68          | 7.1   | 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: 16.59 ng

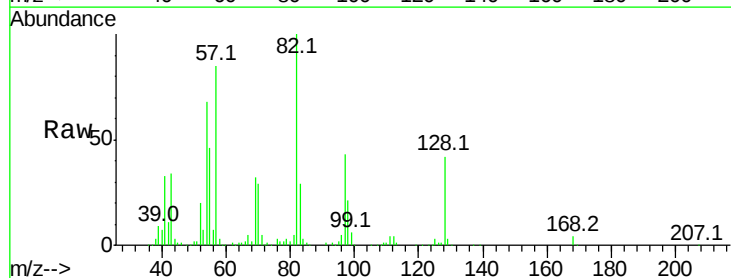
RT: 7.31 min Scan# 888

Delta R.T. -0.05 min

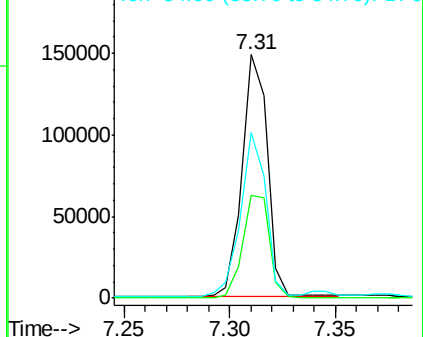
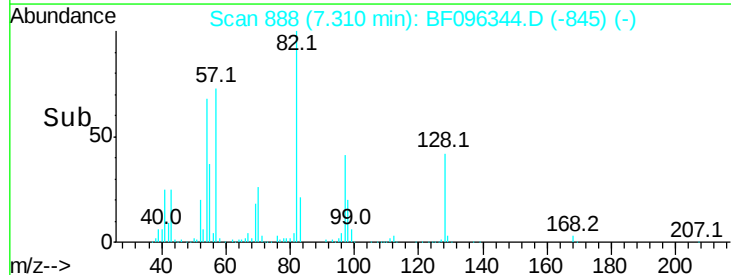
Lab File: BF096344.D

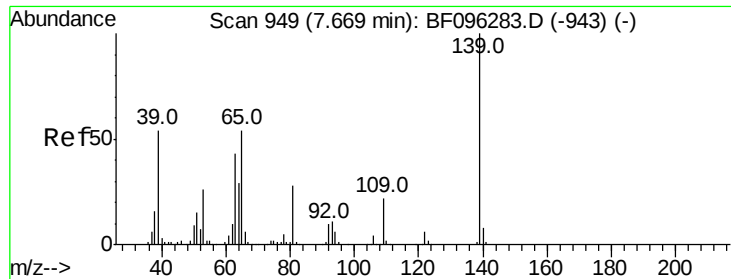
Acq: 30 Jun 2017 18:55

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 124292     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 42.2  | 34.0 51.0  |
| 54          | 68.1  | 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

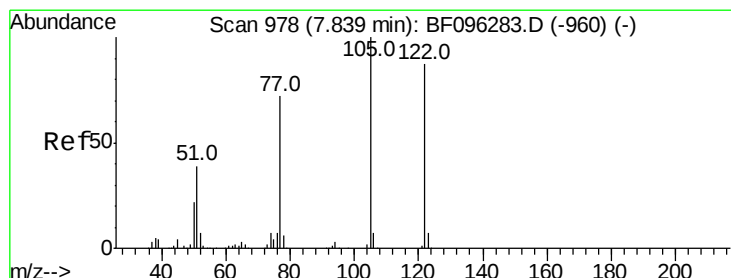
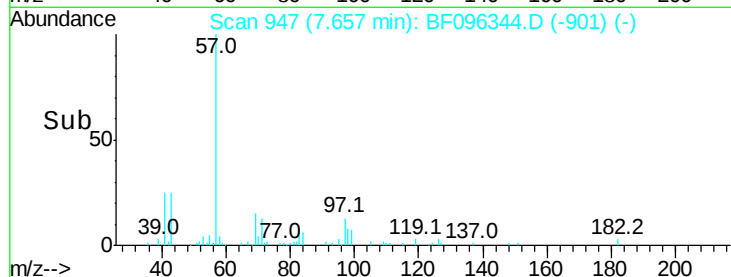
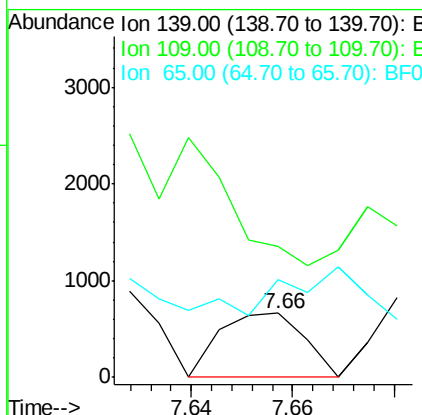
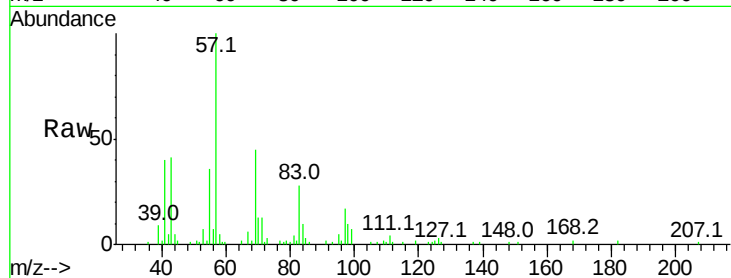




#26  
2-Nitrophenol  
Concen: 6.22 ng  
RT: 7.66 min Scan# 947  
Delta R.T. -0.03 min  
Lab File: BF096344.D  
Acq: 30 Jun 2017 18:55

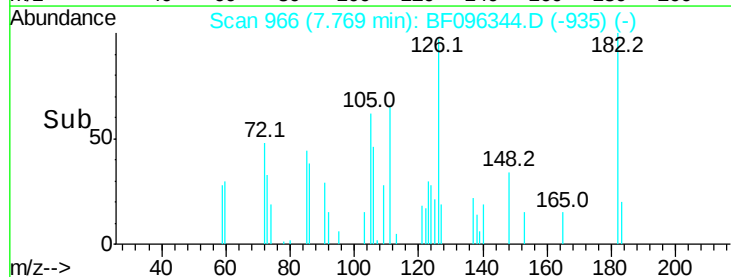
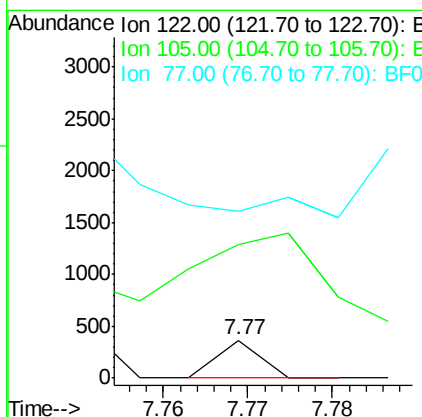
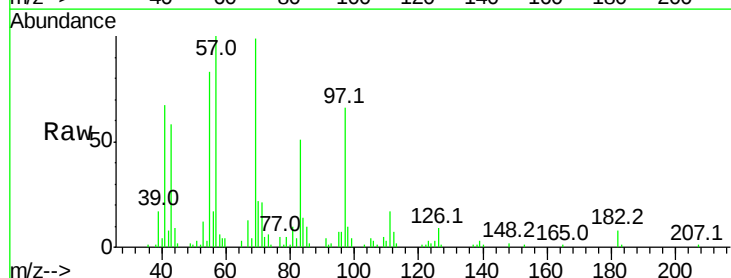
Instrument :  
BNA\_F  
ClientSampleId :

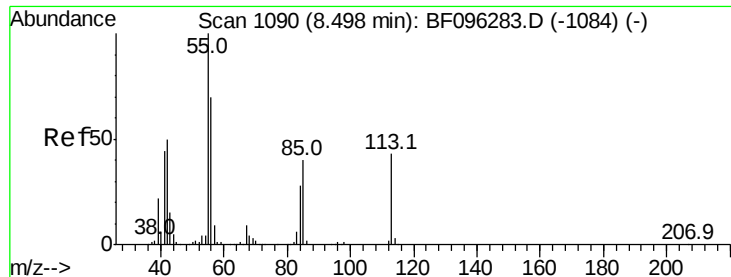
Tot Ion:139 Resp: 770  
Ion Ratio Lower Upper  
139 100  
109 203.0 21.0 31.6#  
65 151.1 33.0 49.6#



#32  
Benzoic acid  
Concen: 8.81 ng  
RT: 7.77 min Scan# 966  
Delta R.T. -0.12 min  
Lab File: BF096344.D  
Acq: 30 Jun 2017 18:55

Tgt Ion:122 Resp: 128  
Ion Ratio Lower Upper  
122 100  
105 354.1 103.3 143.3#  
77 442.8 73.7 113.7#





#35

Caprolactam

Concen: 2.03 ng

RT: 8.43 min Scan# 1078

Delta R.T. -0.01 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :

BNA\_F

ClientSampleId :

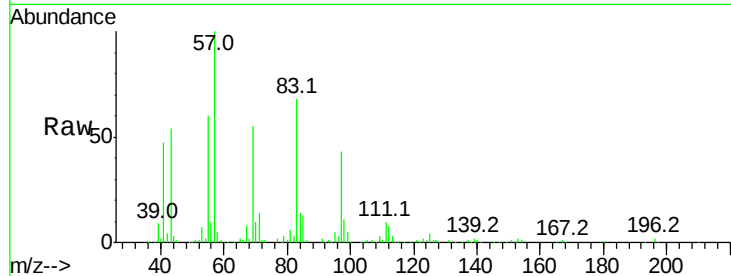
Tot Ion:113 Resp: 4602

Ion Ratio Lower Upper

113 100

55 2028.9 150.2 190.2#

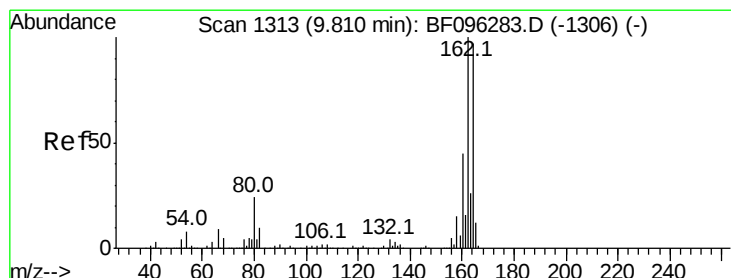
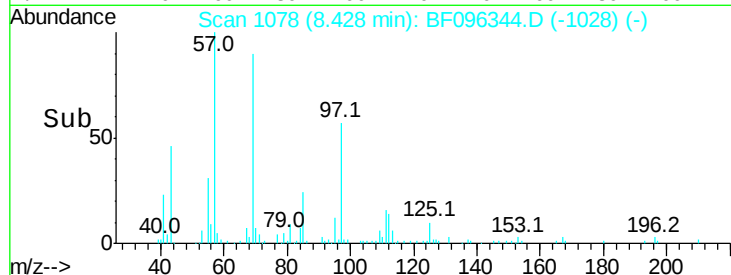
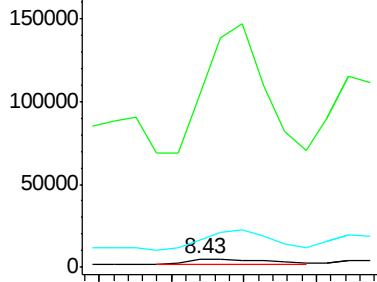
56 324.0 107.8 147.8#



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: 9.80 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

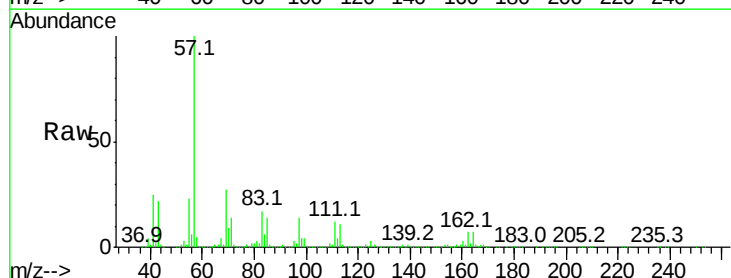
Tgt Ion:164 Resp: 116556

Ion Ratio Lower Upper

164 100

162 104.6 82.6 123.8

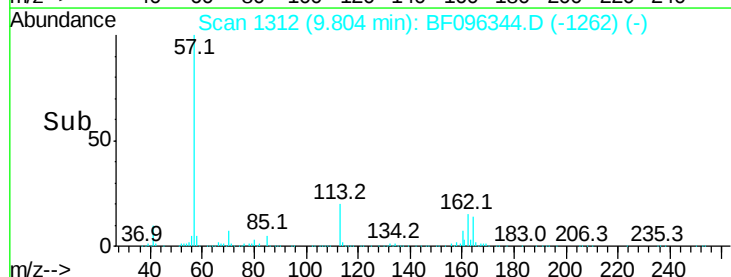
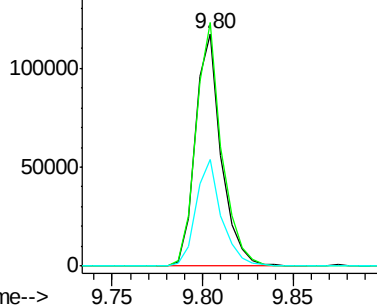
160 45.8 36.2 54.2

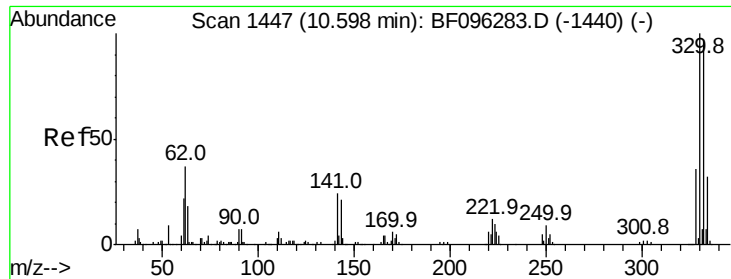


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

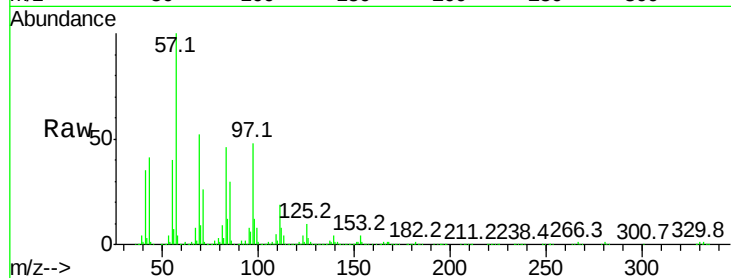




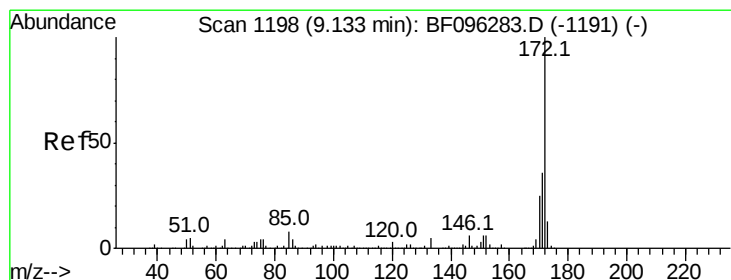
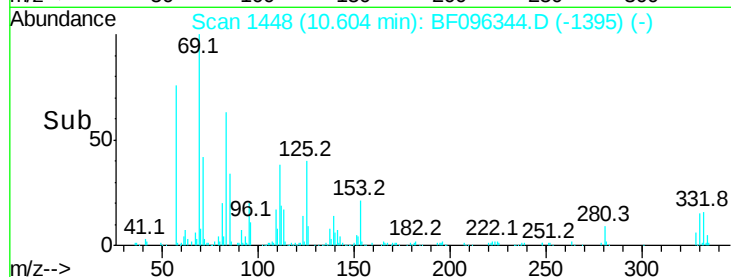
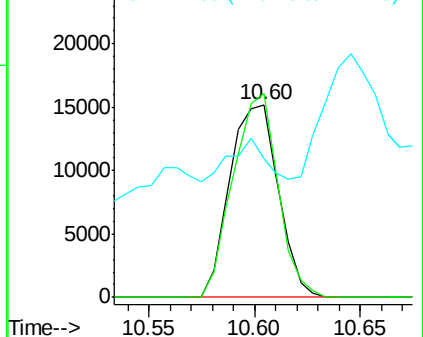
#41  
 2,4,6-Tribromophenol  
 Concen: 26.38 ng  
 RT: 10.60 min Scan# 1448  
 Delta R.T. 0.01 min  
 Lab File: BF096344.D  
 Acq: 30 Jun 2017 18:55

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 24201  
 Ion Ratio Lower Upper  
 330 100  
 332 98.5 76.6 115.0  
 141 22.1 31.4 47.2#

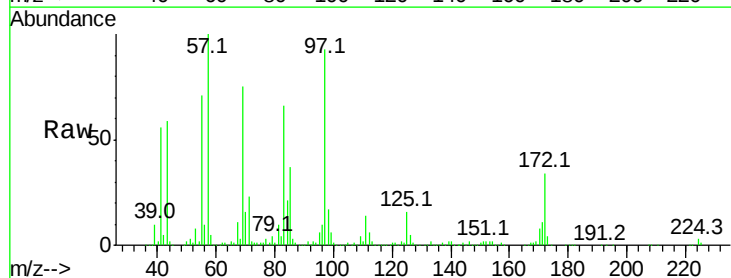


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

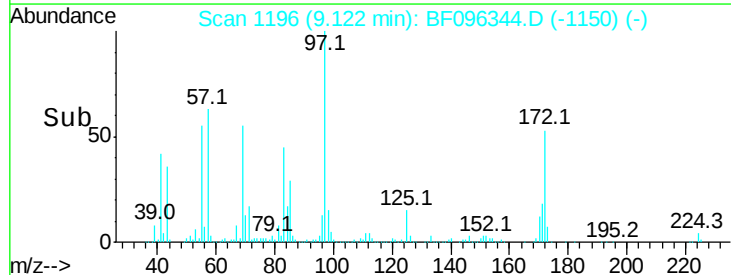
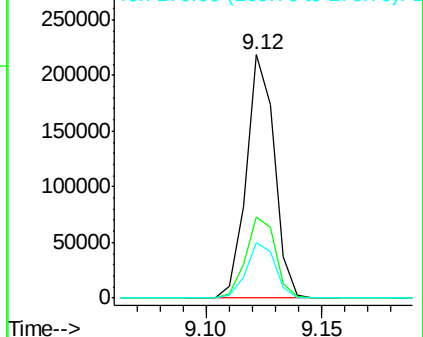


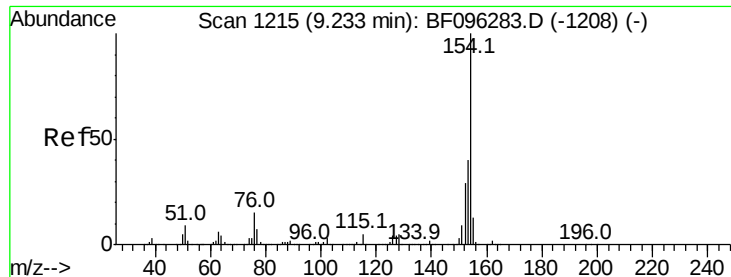
#44  
 2-Fluorobiphenyl  
 Concen: 29.20 ng  
 RT: 9.12 min Scan# 1196  
 Delta R.T. -0.03 min  
 Lab File: BF096344.D  
 Acq: 30 Jun 2017 18:55

Tgt Ion:172 Resp: 185821  
 Ion Ratio Lower Upper  
 172 100  
 171 33.3 29.6 44.4  
 170 23.0 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





#45

1,1'-Biphenyl

Concen: 2.38 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.01 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :

BNA\_F

ClientSampled :

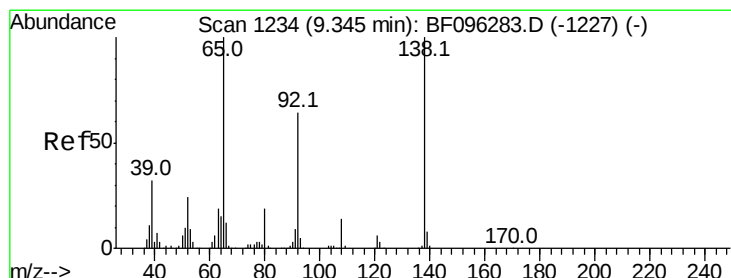
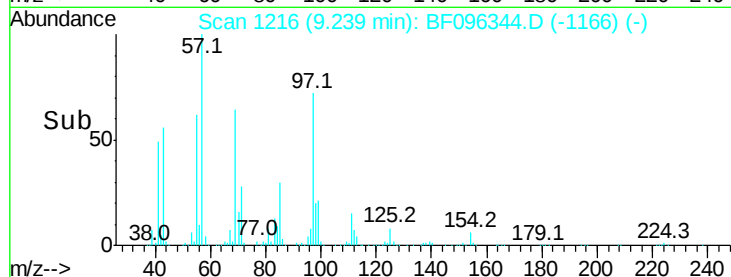
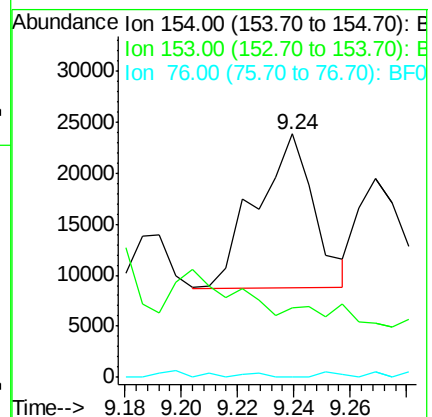
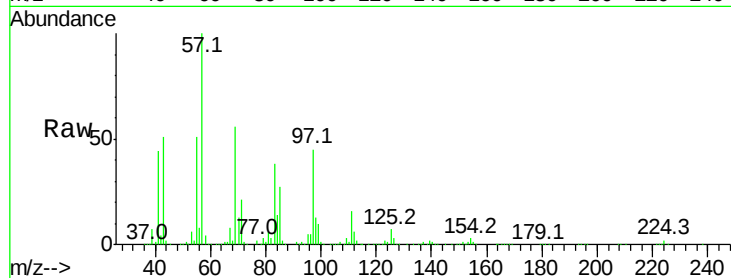
Tot Ion:154 Resp: 21313

Ion Ratio Lower Upper

154 100

153 28.5 21.2 61.2

76 0.0 0.0 29.9



#47

2-Nitroaniline

Concen: 5.41 ng

RT: 9.35 min Scan# 1234

Delta R.T. -0.02 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

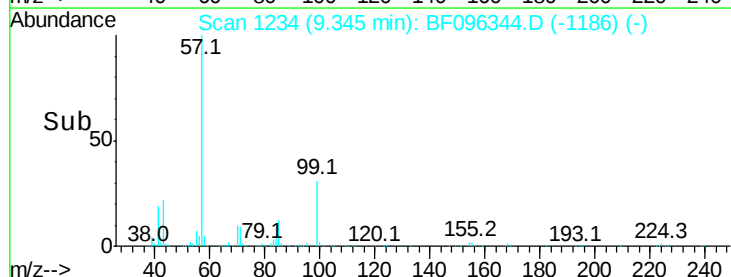
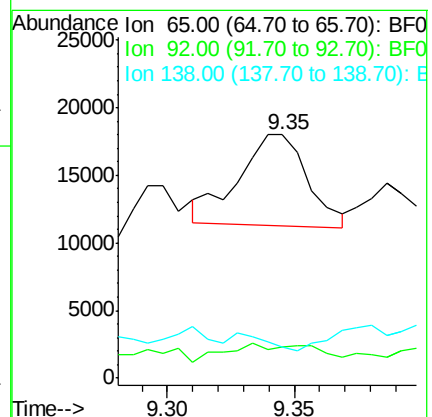
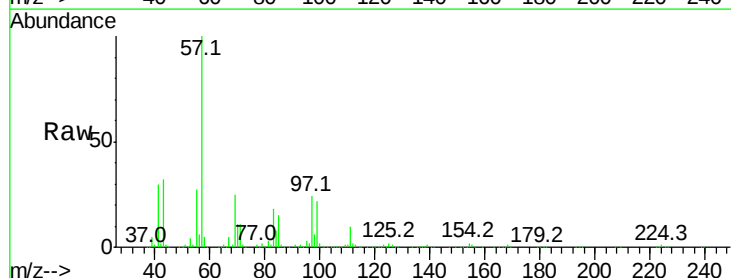
Tgt Ion: 65 Resp: 12679

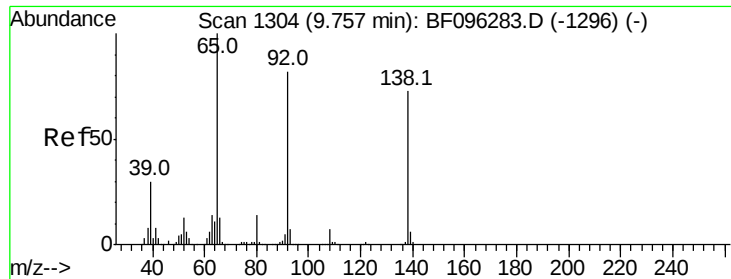
Ion Ratio Lower Upper

65 100

92 12.7 53.9 80.9#

138 12.8 78.8 118.2#





#52

3-Nitroaniline

Concen: 2.35 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.04 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :

BNA\_F

ClientSampleId :

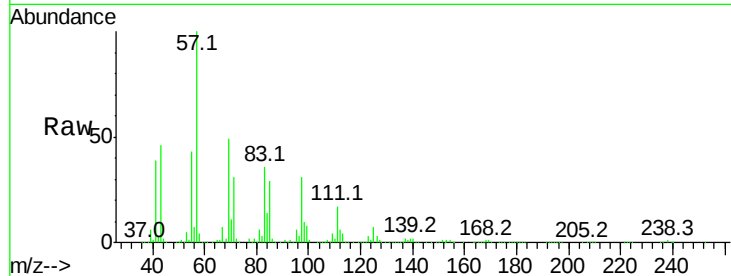
Tot Ion:138 Resp: 5215

Ion Ratio Lower Upper

138 100

108 43.7 9.1 13.7#

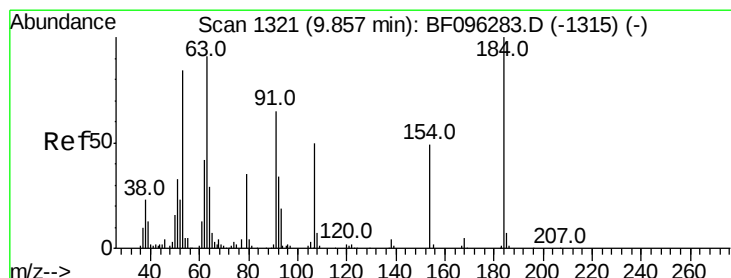
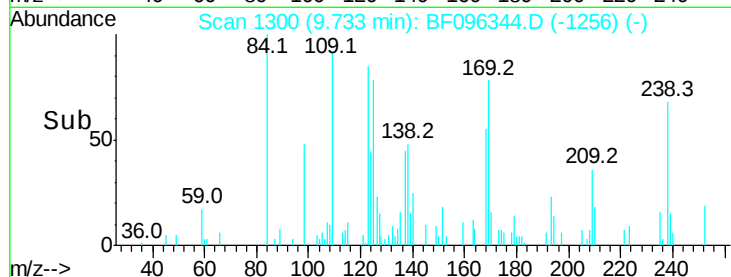
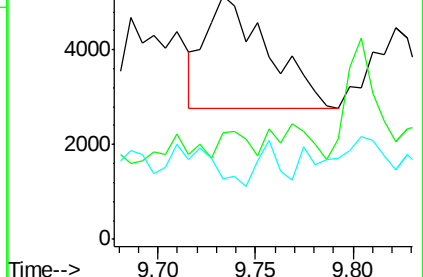
92 24.7 93.8 140.6#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0



#53

2,4-Dinitrophenol

Concen: 7.75 ng

RT: 9.98 min Scan# 1342

Delta R.T. 0.11 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

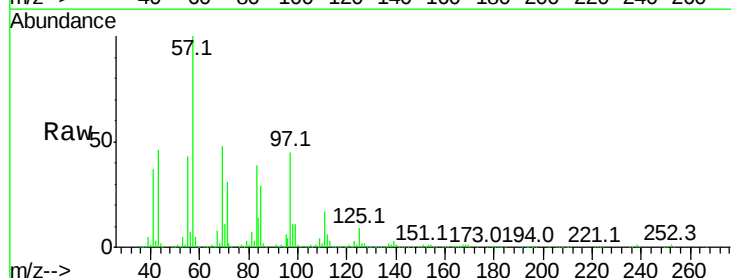
Tgt Ion:184 Resp: 119

Ion Ratio Lower Upper

184 100

63 226.0 62.7 94.1#

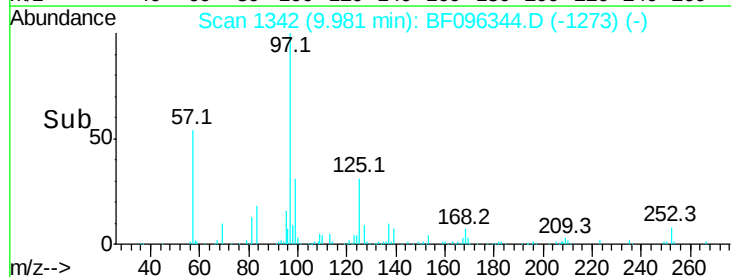
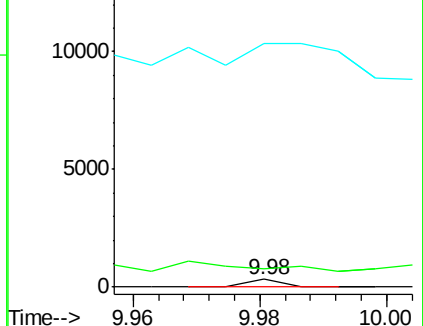
154 3059.8 81.1 121.7#

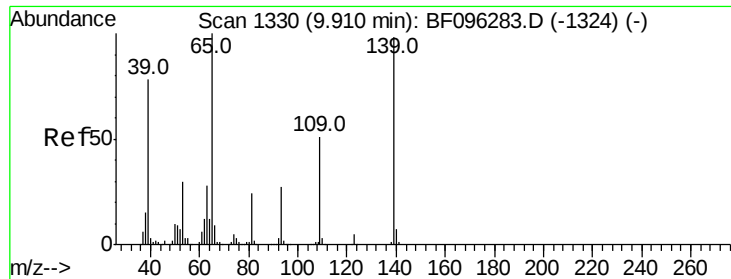


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E





#55

4-Nitrophenol

Concen: 6.14 na

RT: 9.96 min Scan# 1338

Delta R.T. 0.03 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :

BNA\_F

ClientSampled :

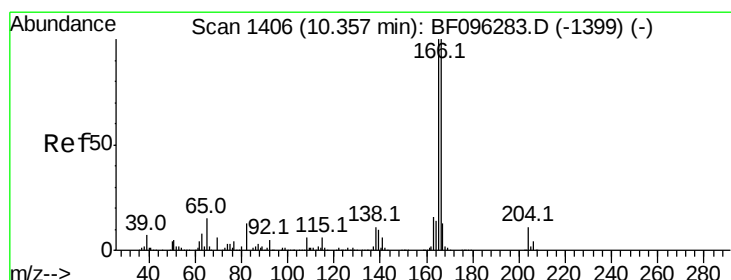
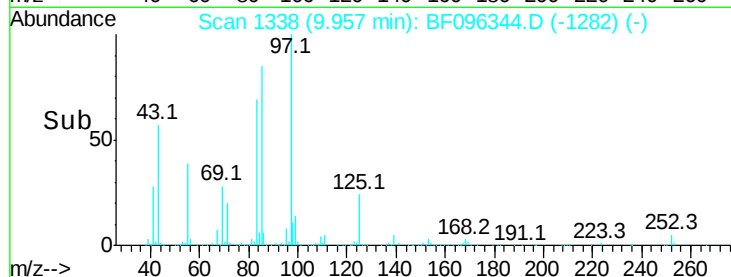
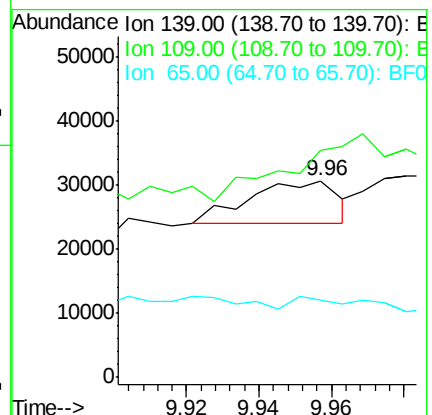
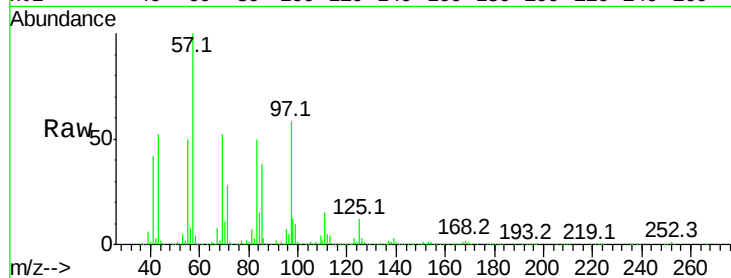
Tot Ion:139 Resp: 11028

Ion Ratio Lower Upper

139 100

109 115.4 34.1 74.1#

65 39.3 31.4 71.4



#57

Fluorene

Concen: Below Cal

RT: 10.36 min Scan# 1406

Delta R.T. -0.01 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

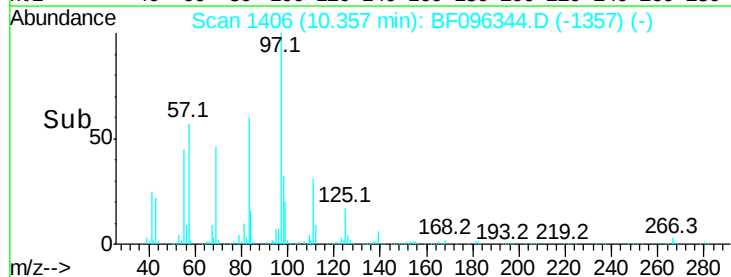
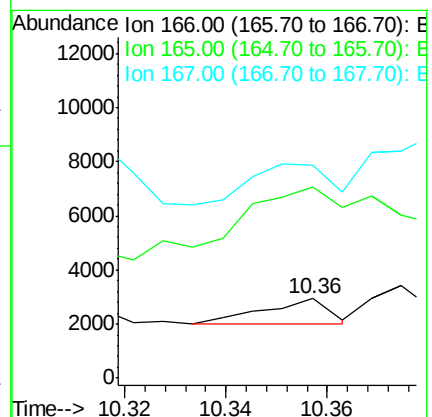
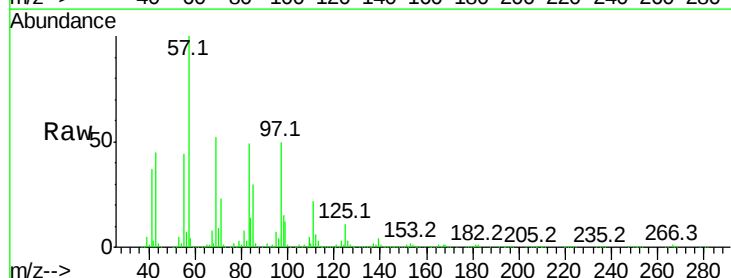
Tgt Ion:166 Resp: 860

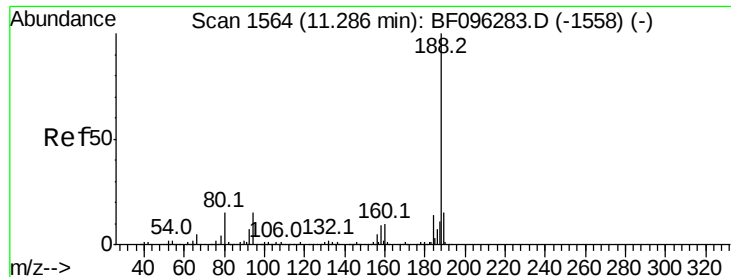
Ion Ratio Lower Upper

166 100

165 241.9 78.8 118.2#

167 268.2 10.6 16.0#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.30 min Scan# 1567

Delta R.T. 0.02 min

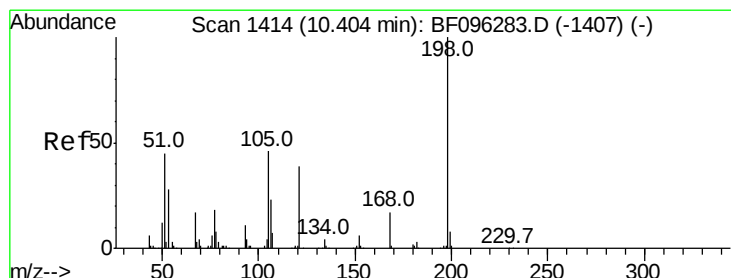
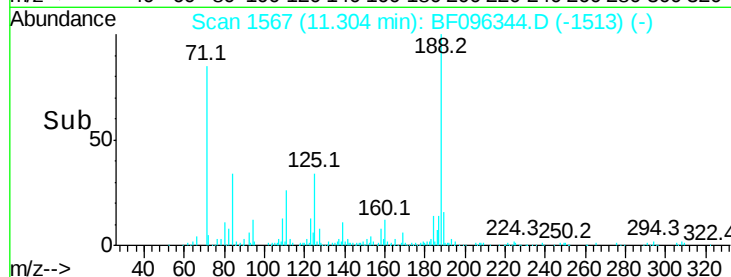
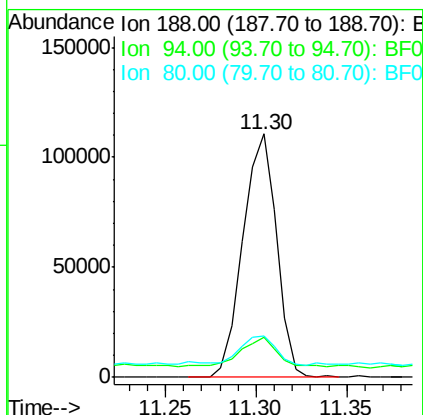
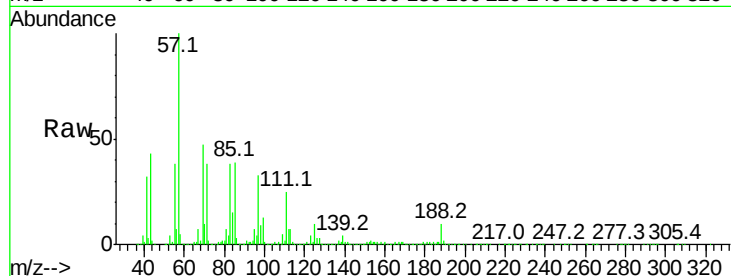
Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :  
BNA\_F  
ClientSampleID :

Tot Ion:188 Resp: 142588

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 16.7  | 9.4   | 14.2# |
| 80  | 17.2  | 10.2  | 15.2# |



#64

4,6-Dinitro-2-methylphenol

Concen: 8.87 ng

RT: 10.60 min Scan# 1448

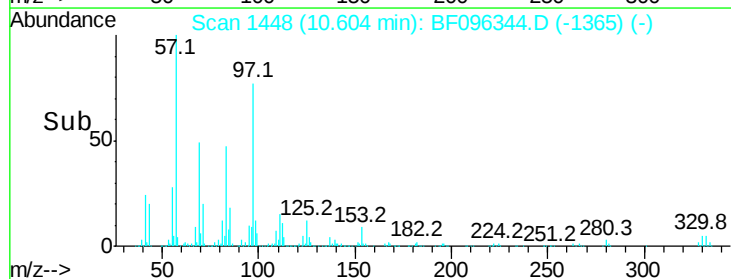
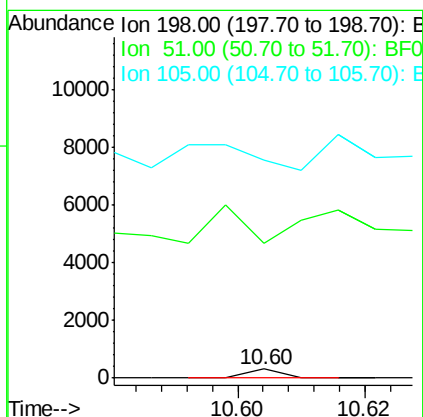
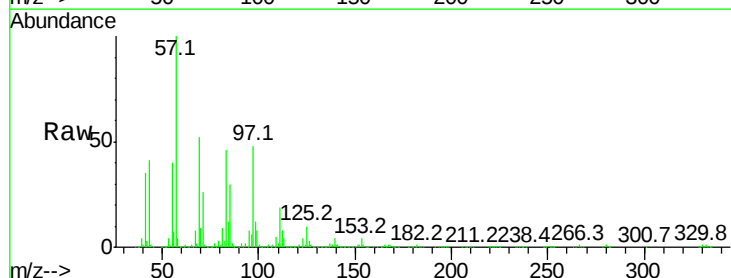
Delta R.T. 0.19 min

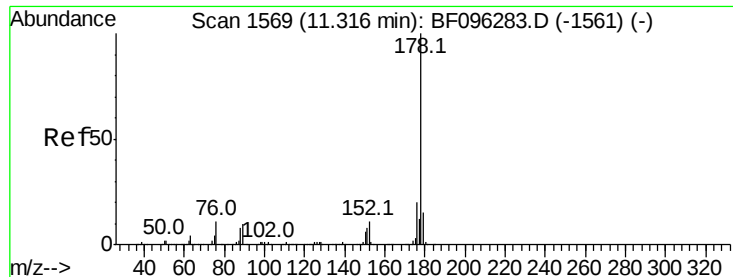
Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Tgt Ion:198 Resp: 107

| Ion | Ratio  | Lower | Upper |
|-----|--------|-------|-------|
| 198 | 100    |       |       |
| 51  | 1538.2 | 53.2  | 93.2# |
| 105 | 2492.1 | 45.8  | 85.8# |





#70

Phenanthrene

Concen: Below Cal

RT: 11.32 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :

BNA\_F

ClientSampleId :

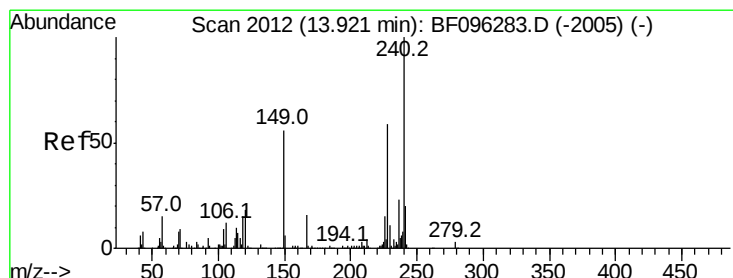
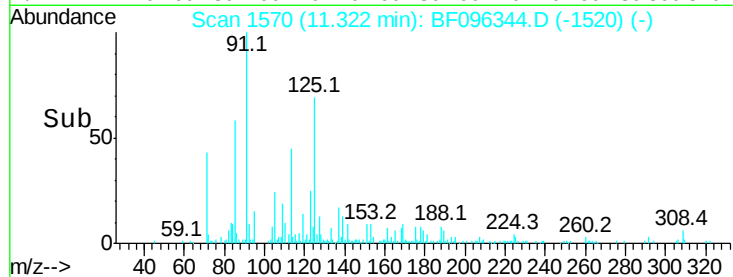
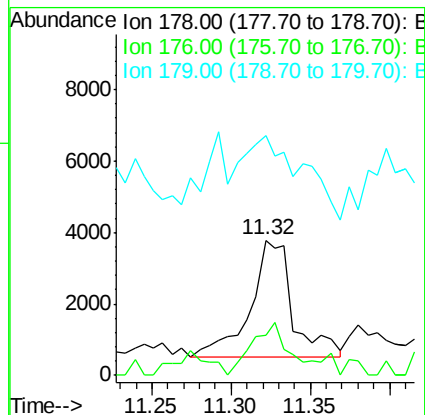
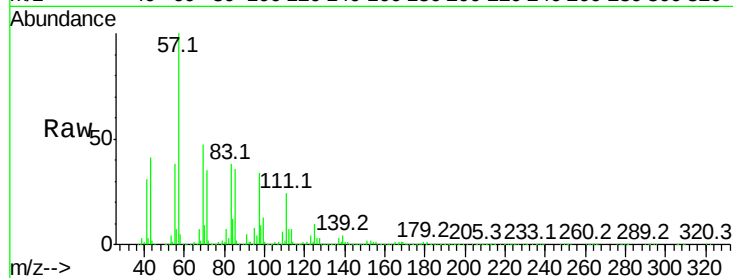
Tot Ion:178 Resp: 6178

Ion Ratio Lower Upper

178 100

176 29.9 16.2 24.4#

179 177.7 12.6 19.0#



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 2015

Delta R.T. 0.02 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

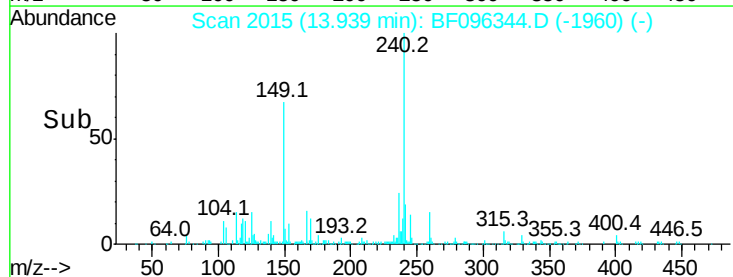
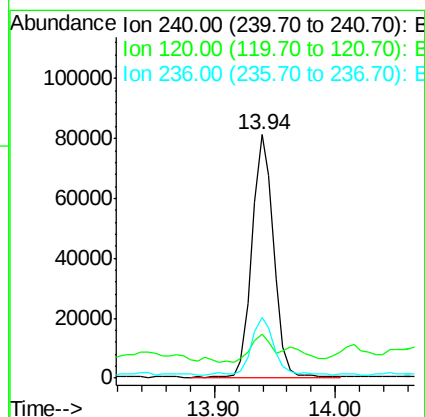
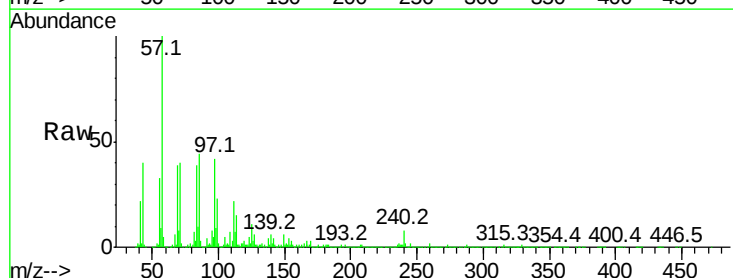
Tgt Ion:240 Resp: 103740

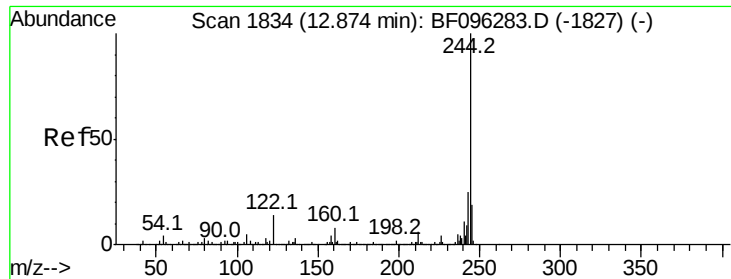
Ion Ratio Lower Upper

240 100

120 18.1 5.8 8.8#

236 25.0 20.5 30.7





#78

Terphenyl-d14

Concen: 17.78 ng

RT: 12.89 min Scan# 1836

Delta R.T. 0.02 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

Instrument :

BNA\_F

ClientSampled :

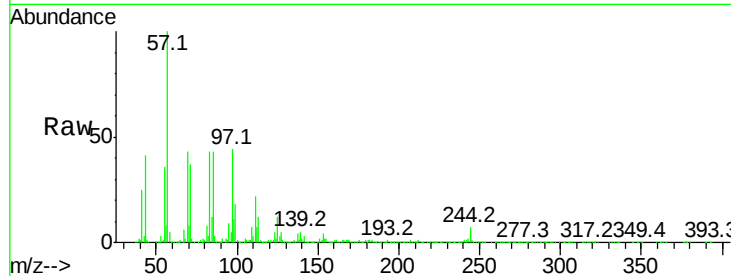
Tot Ion:244 Resp: 73911

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

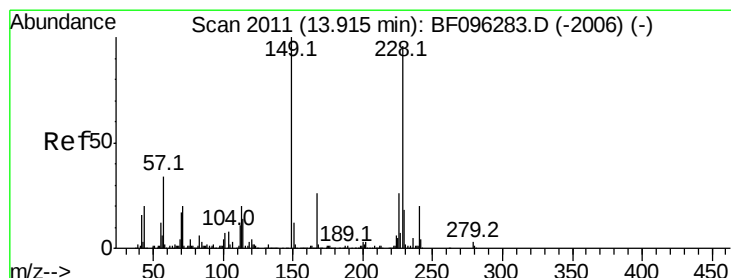
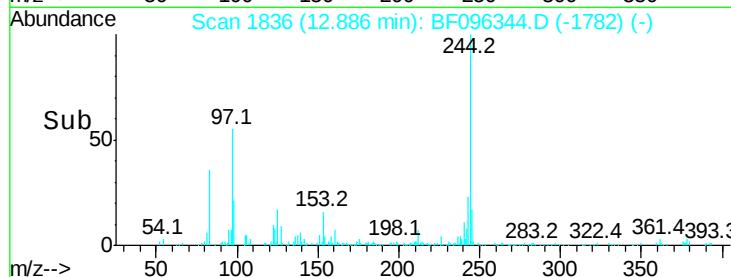
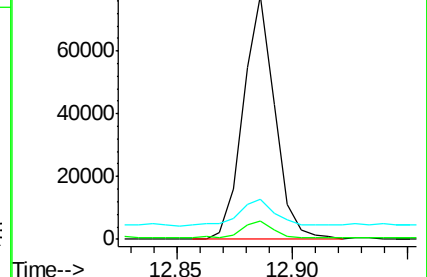
122 16.4 10.3 15.5#



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 20.95 ng

RT: 13.93 min Scan# 2014

Delta R.T. 0.02 min

Lab File: BF096344.D

Acq: 30 Jun 2017 18:55

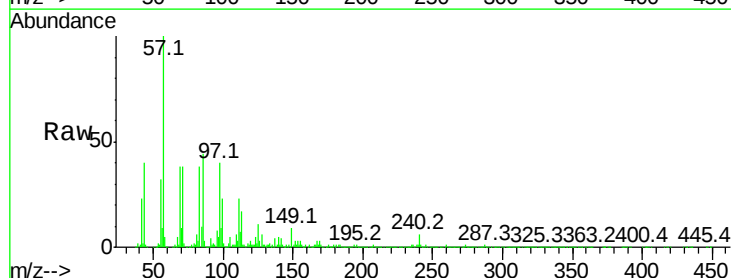
Tgt Ion:149 Resp: 88968

Ion Ratio Lower Upper

149 100

167 39.4 21.0 31.4#

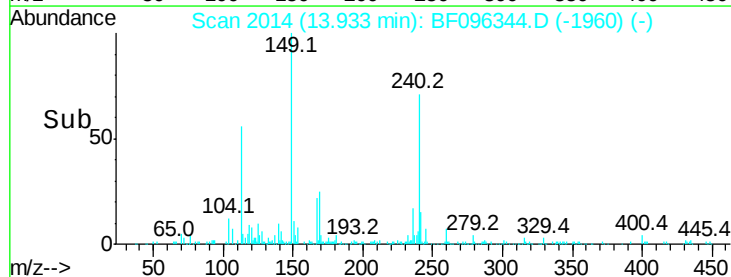
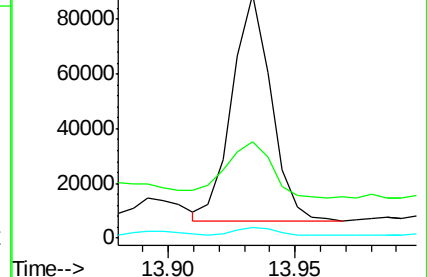
279 4.3 1.9 2.9#

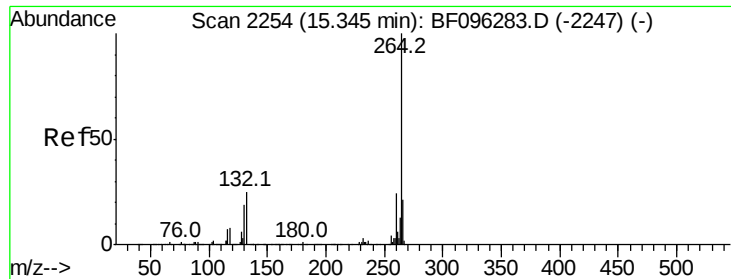


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.37 min Scan# 2259  
Delta R.T. 0.04 min  
Lab File: BF096344.D  
Acq: 30 Jun 2017 18:55

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.5  | 29.3  |
| 265     | 22.9  | 17.2  | 25.8  |

