

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
 Data File : BF096321.D  
 Acq On : 30 Jun 2017 4:50  
 Operator : SJ/MA  
 Sample : I3883-06 10X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 30 07:39:37 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 | 6.77  | 152  | 145154   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.06  | 136  | 545673   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.80  | 164  | 196667   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.29 | 188  | 315481   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.92 | 240  | 215891   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.34 | 264  | 187038   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.38  | 112  | 79813    | 7.92  | ng    | 0.00     |
| 7) Phenol-d6                | 6.39  | 99   | 121361   | 9.95  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 56744    | 7.20  | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 10.59 | 330  | 8133     | 5.25  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.13  | 172  | 109803   | 10.22 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.87 | 244  | 87281    | 10.09 | ng    | 0.00     |

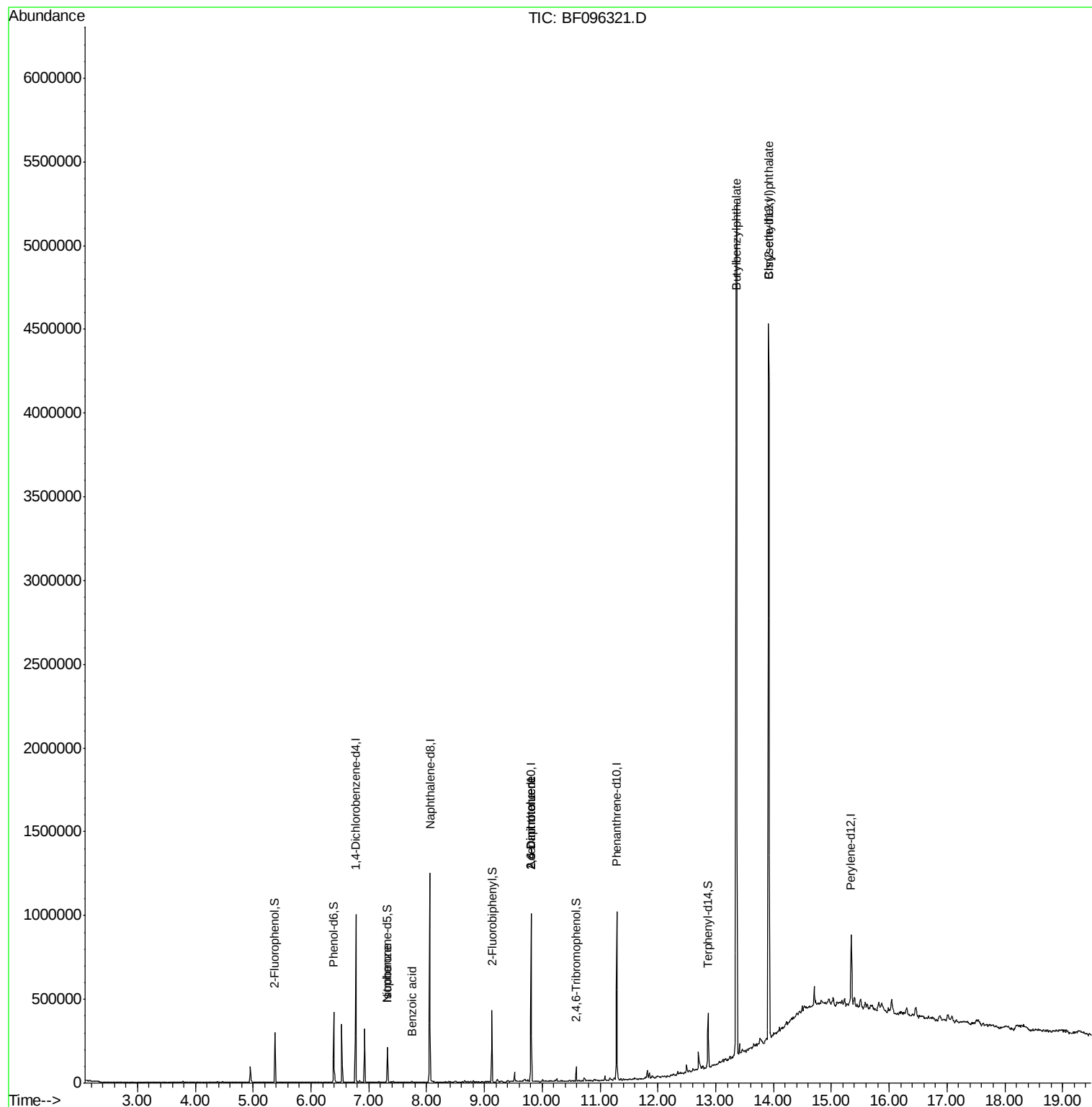
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.31  | 77   | 292      | Below Cal |       | 83     |
| 25) Isophorone                 | 7.32  | 82   | 56743    | 3.17 ng   | #     | 67     |
| 32) Benzoic acid               | 7.75  | 122  | 1998     | 9.07 ng   |       | 88     |
| 50) 2,6-Dinitrotoluene         | 9.80  | 165  | 24302    | 8.30 ng   | #     | 33     |
| 56) 2,4-Dinitrotoluene         | 9.80  | 165  | 24302    | 6.59 ng   | #     | 33     |
| 57) Fluorene                   | 10.35 | 166  | 697      | Below Cal | #     | 28     |
| 70) Phenanthrene               | 11.31 | 178  | 9890     | Below Cal |       | 94     |
| 79) Butylbenzylphthalate       | 13.36 | 149  | 1554931  | 191.25 ng | #     | 78     |
| 83) Bis(2-ethylhexyl)phthalate | 13.92 | 149  | 1101704  | 124.69 ng | #     | 99     |

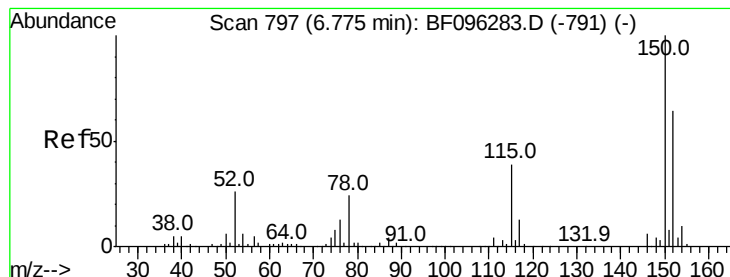
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 797

Delta R.T. -0.01 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

Instrument :

BNA\_F

ClientSampleId :

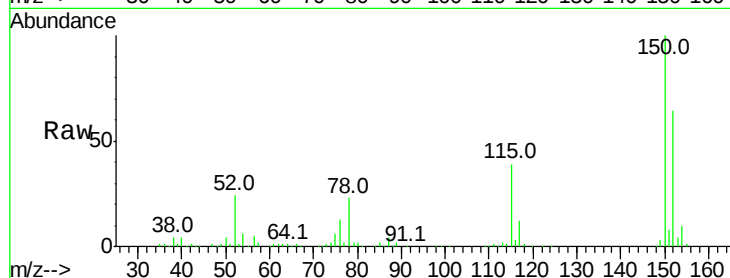
Tot Ion:152 Resp: 145154

Ion Ratio Lower Upper

152 100

150 155.8 126.2 189.2

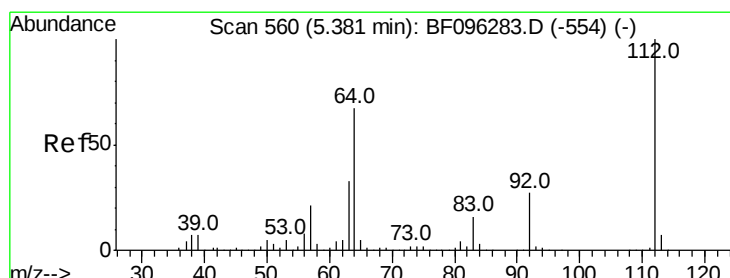
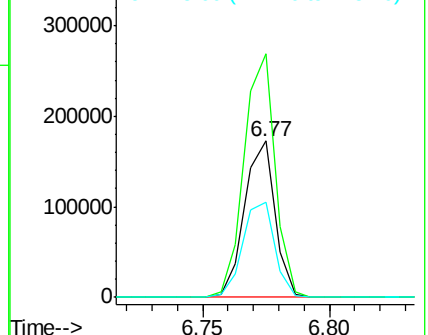
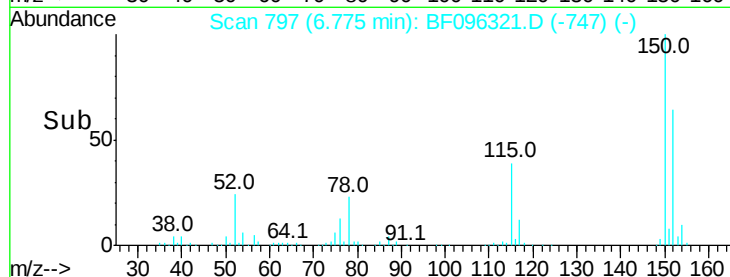
115 60.6 52.2 78.2



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: 7.92 ng

RT: 5.38 min Scan# 560

Delta R.T. 0.00 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

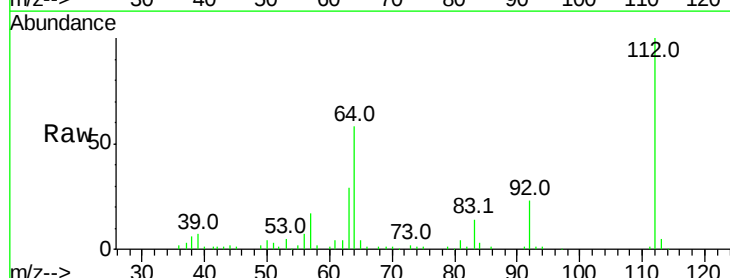
Tgt Ion:112 Resp: 79813

Ion Ratio Lower Upper

112 100

64 58.2 46.0 69.0

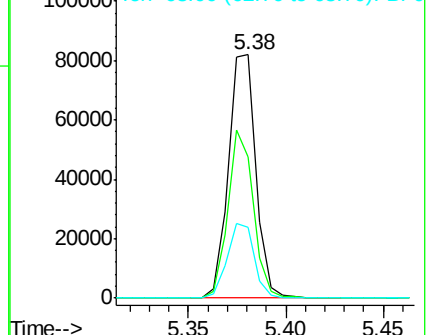
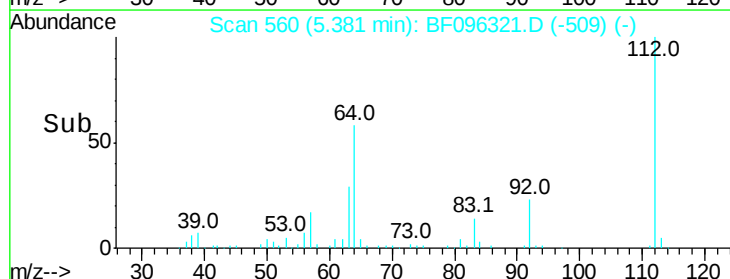
63 28.8 23.4 35.0

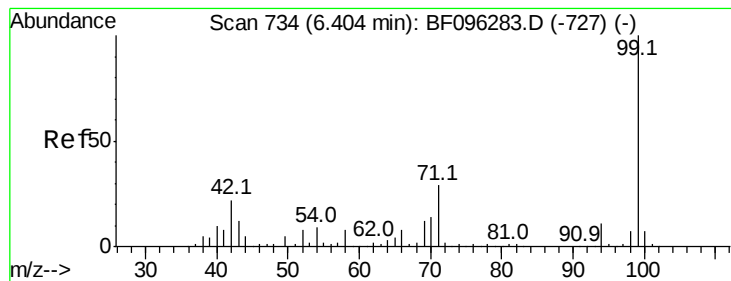


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 9.95 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

Instrument :

BNA\_F

ClientSampleId :

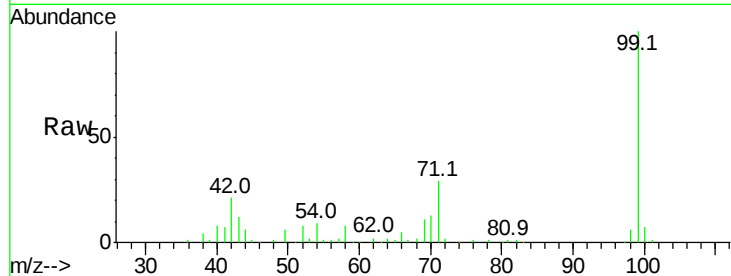
Tot Ion: 99 Resp: 121361

Ion Ratio Lower Upper

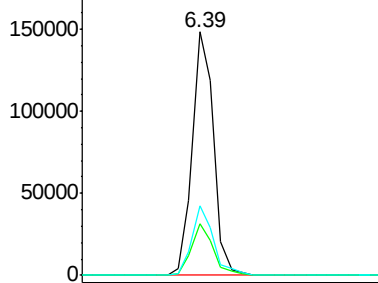
99 100

42 21.0 13.5 20.3#

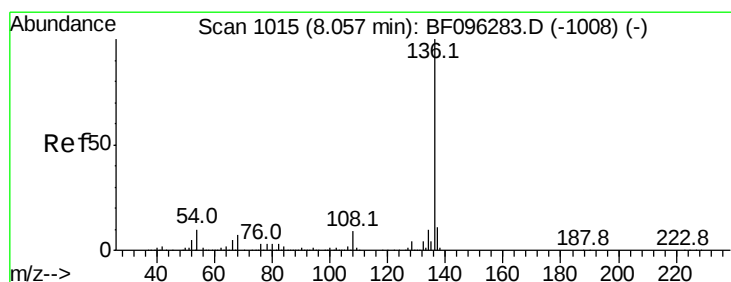
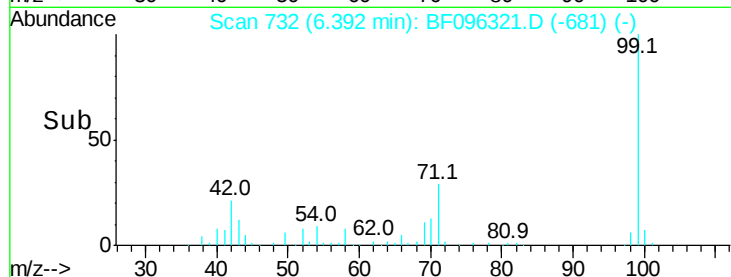
71 28.8 24.5 36.7



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



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.00 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

Tgt Ion: 136 Resp: 545673

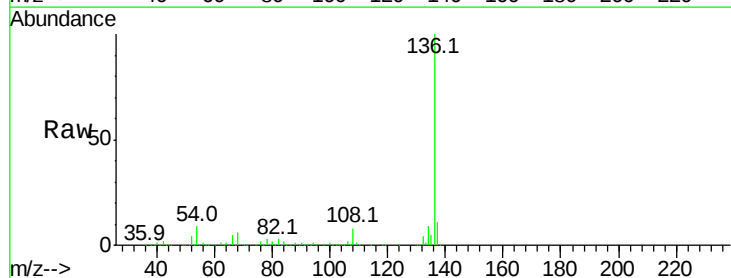
Ion Ratio Lower Upper

136 100

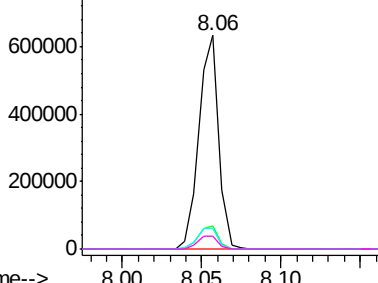
137 10.9 8.5 12.7

54 9.4 4.9 7.3#

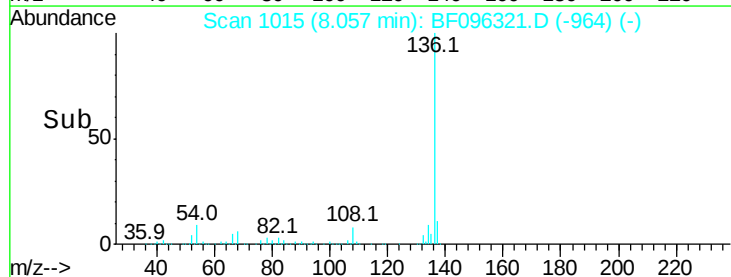
68 6.2 4.1 6.1#

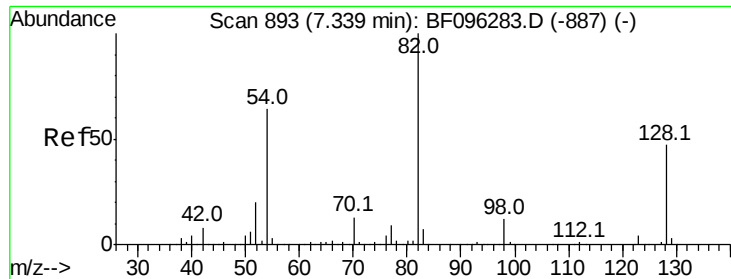


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0



Time-->

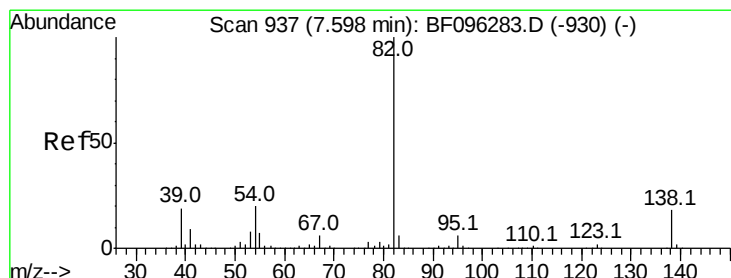
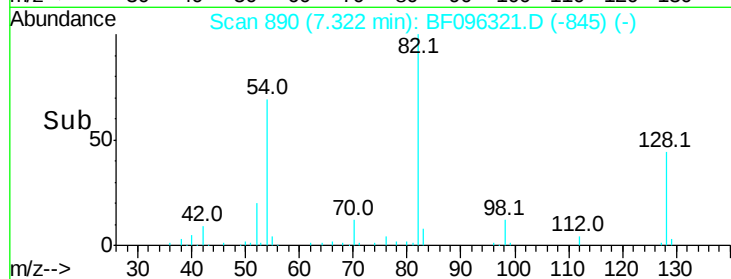
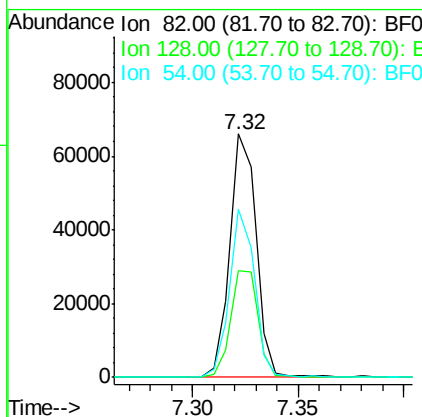
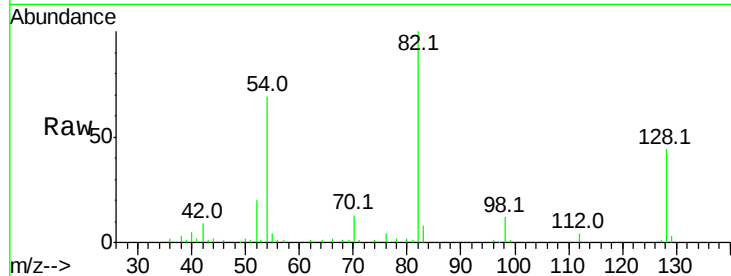




#23  
 Nitrobenzene-d5  
 Concen: 7.20 ng  
 RT: 7.32 min Scan# 890  
 Delta R.T. -0.04 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

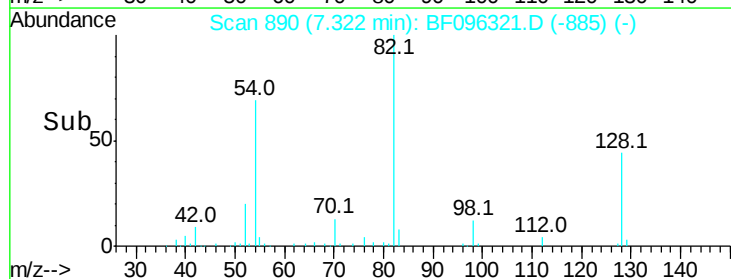
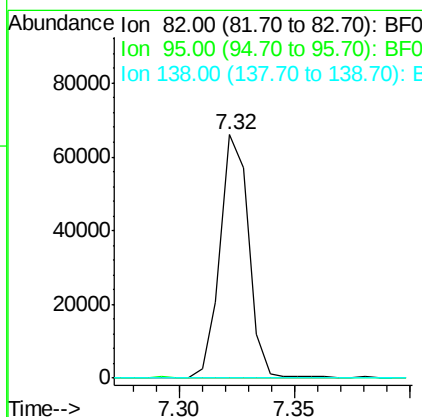
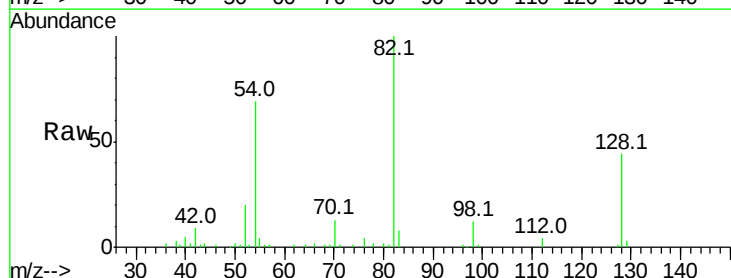
Instrument :  
 BNA\_F  
 ClientSampleId :

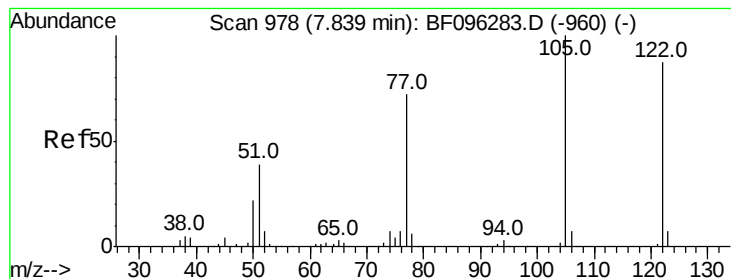
| Tot Ion   | 82   | Resp  | 56744 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 128       | 43.7 | 34.0  | 51.0  |
| 54        | 69.0 | 42.2  | 63.2# |



#25  
 Isophorone  
 Concen: 3.17 ng  
 RT: 7.32 min Scan# 890  
 Delta R.T. -0.27 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

| Tgt Ion   | 82  | Resp  | 56743 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 95        | 0.0 | 5.3   | 7.9#  |
| 138       | 0.0 | 13.1  | 19.7# |





#32

Benzoic acid

Concen: 9.07 ng

RT: 7.75 min Scan# 962

Delta R.T. -0.14 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

Instrument :

BNA\_F

ClientSampled :

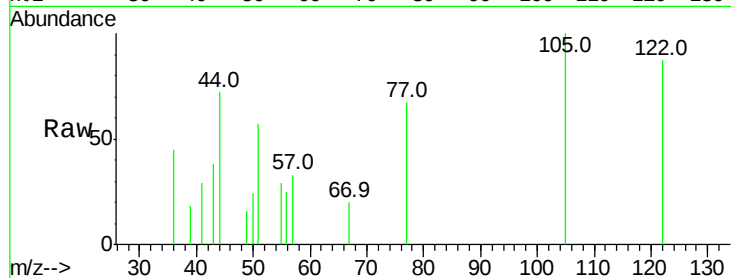
Tot Ion:122 Resp: 1998

Ion Ratio Lower Upper

122 100

105 115.0 103.3 143.3

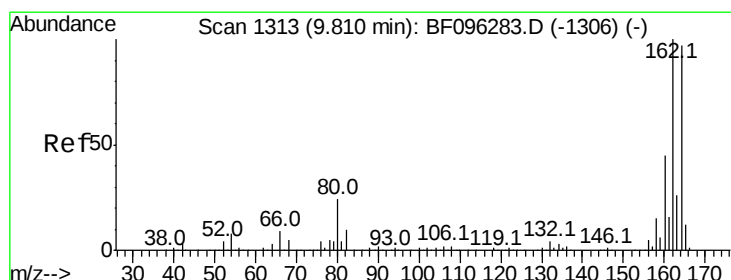
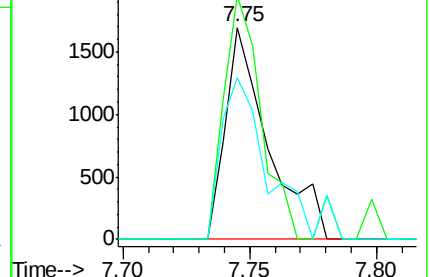
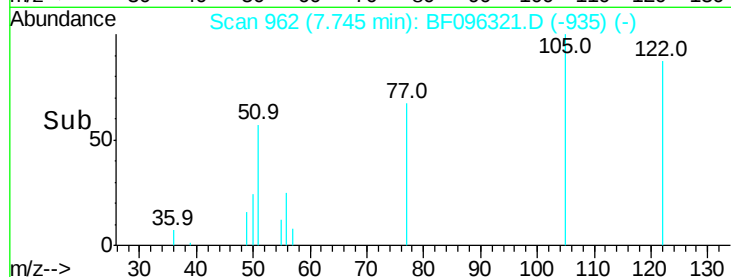
77 76.5 73.7 113.7



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: 9.80 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

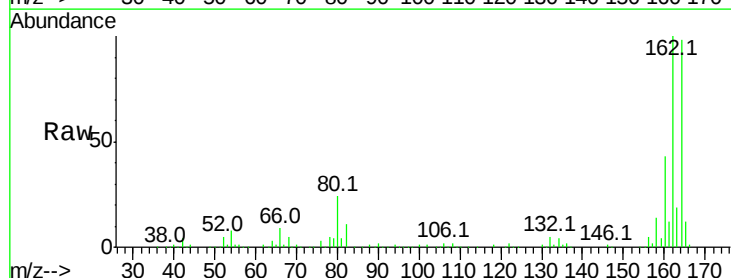
Tgt Ion:164 Resp: 196667

Ion Ratio Lower Upper

164 100

162 101.6 82.6 123.8

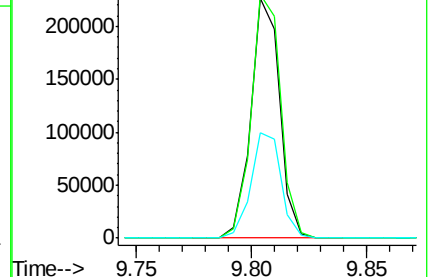
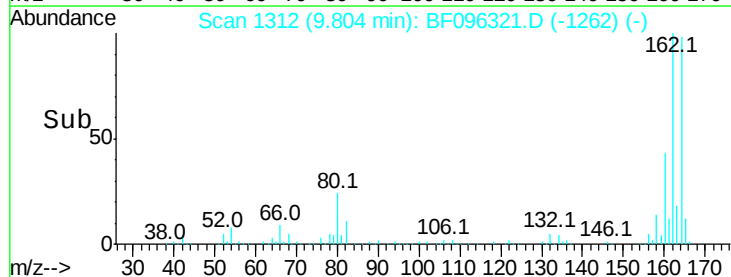
160 44.2 36.2 54.2

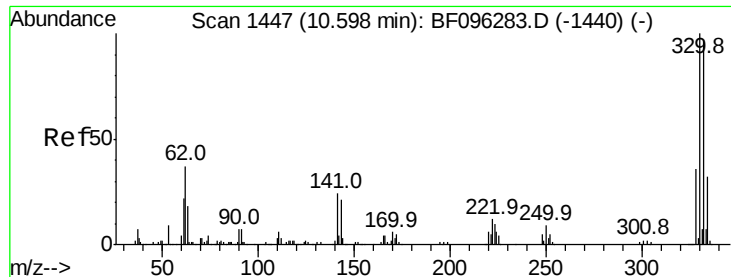


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 5.25 ng

RT: 10.59 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

Instrument :

BNA\_F

ClientSampleId :

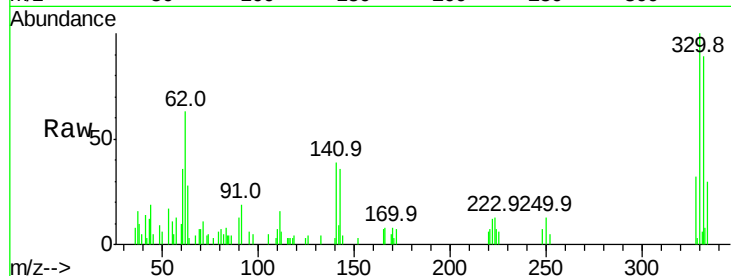
Tot Ion:330 Resp: 8133

Ion Ratio Lower Upper

330 100

332 92.4 76.6 115.0

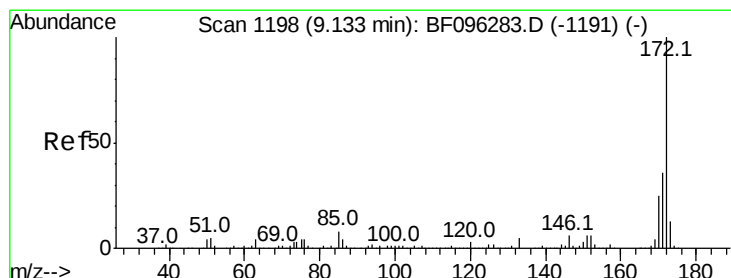
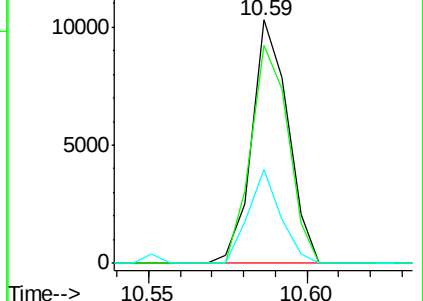
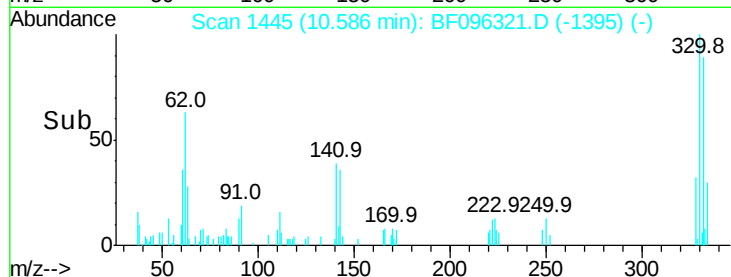
141 34.6 31.4 47.2



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: 10.22 ng

RT: 9.13 min Scan# 1197

Delta R.T. -0.02 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

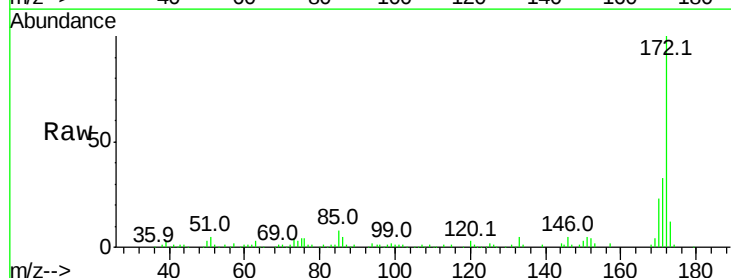
Tgt Ion:172 Resp: 109803

Ion Ratio Lower Upper

172 100

171 33.3 29.6 44.4

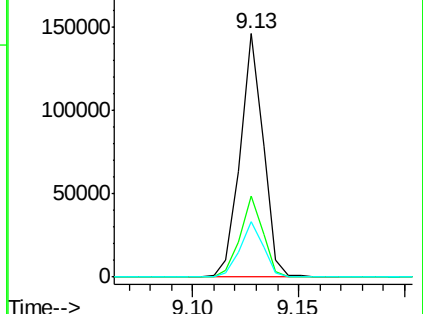
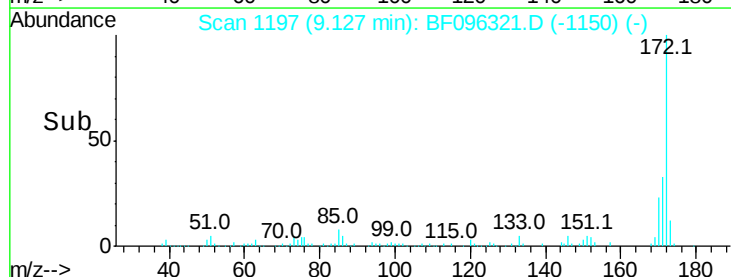
170 22.9 19.8 29.8

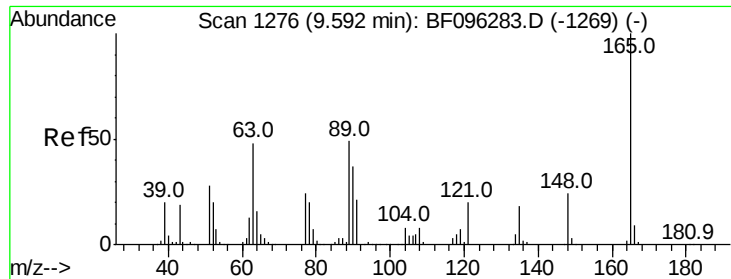


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

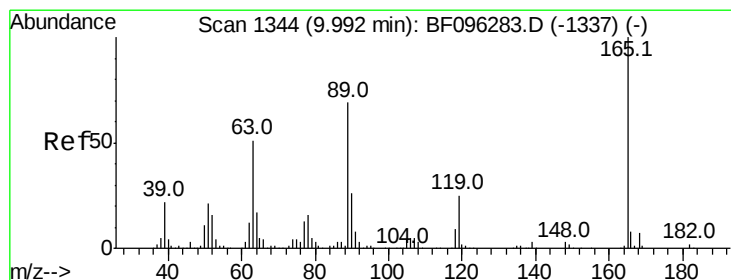
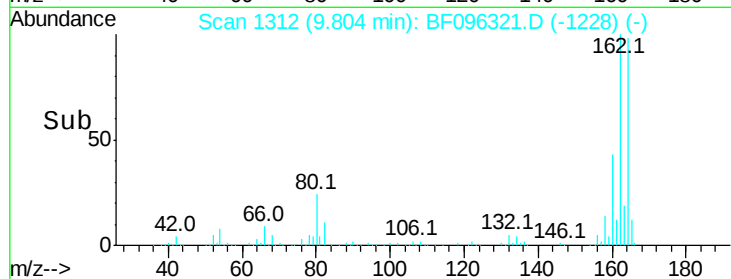
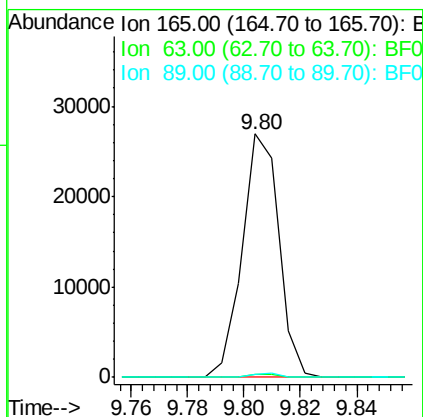
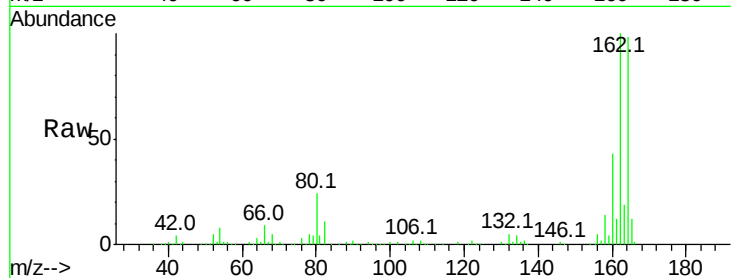




#50  
 2,6-Dinitrotoluene  
 Concen: 8.30 ng  
 RT: 9.80 min Scan# 1312  
 Delta R.T. 0.19 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

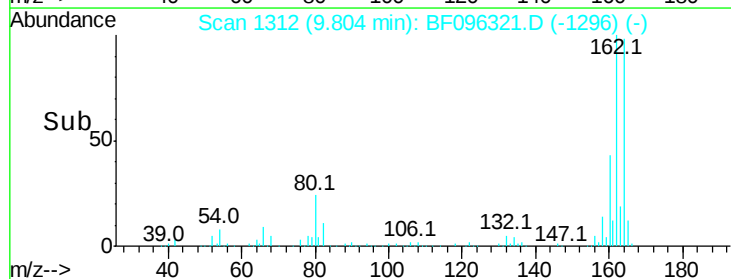
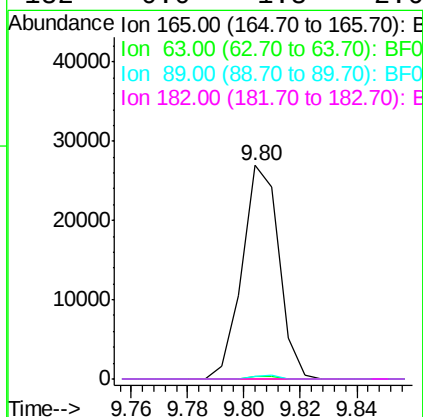
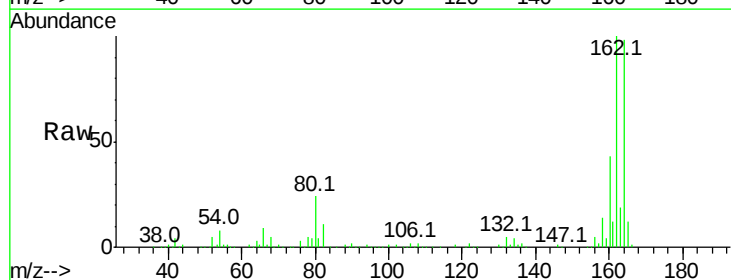
Instrument :  
 BNA\_F  
 ClientSampleId :

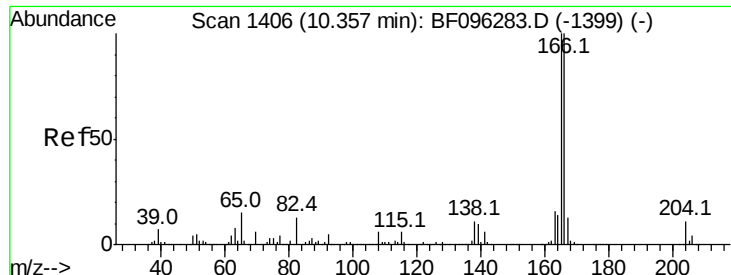
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 34.3  | 51.5# |
| 89      | 1.3   | 37.1  | 55.7# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.59 ng  
 RT: 9.80 min Scan# 1312  
 Delta R.T. -0.21 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 25.4  | 38.0# |
| 89      | 1.3   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

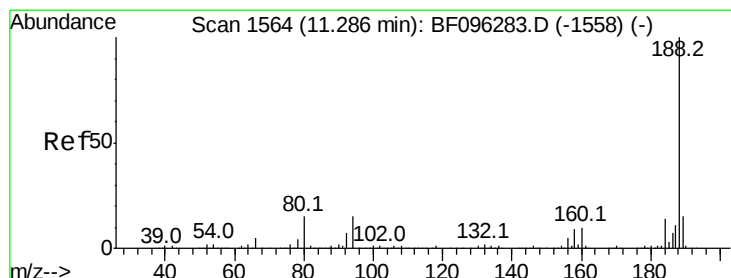
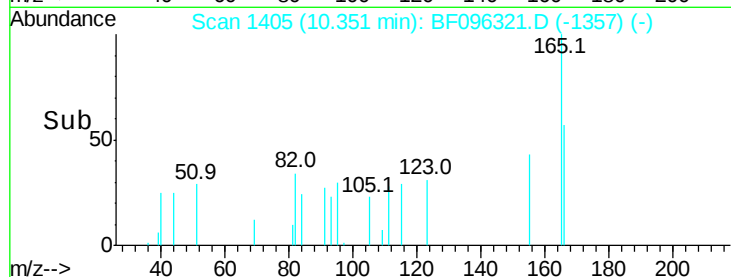
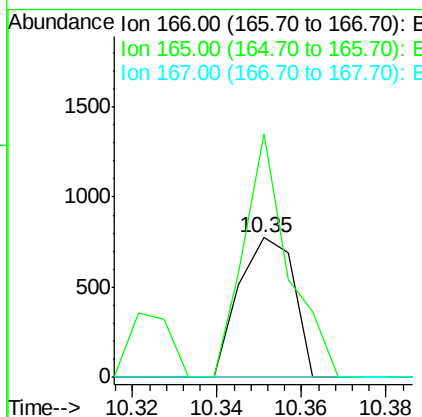
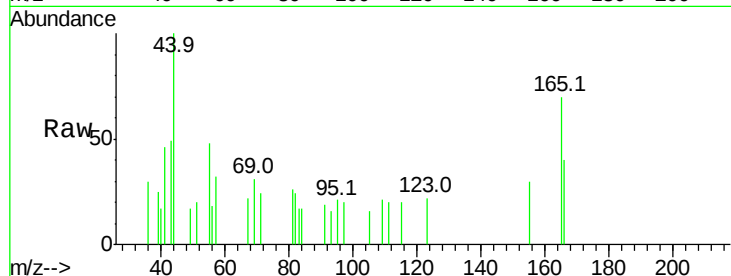




#57  
**Fluorene**  
 Concen: Below Cal  
 RT: 10.35 min Scan# 1405  
 Delta R.T. -0.02 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

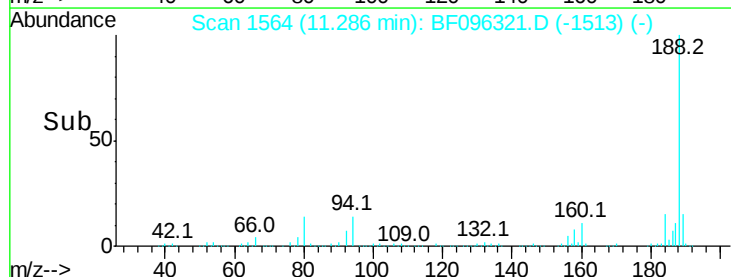
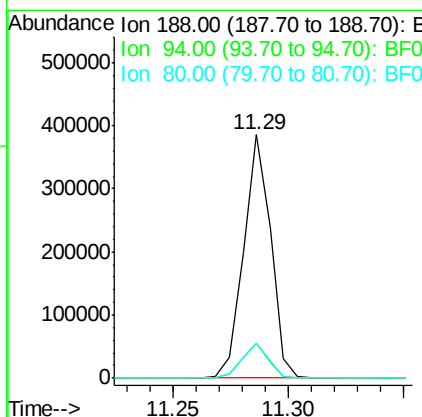
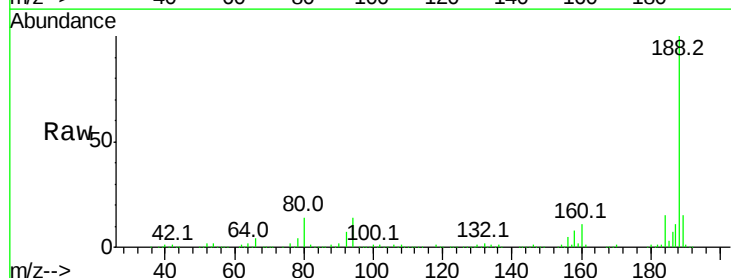
Instrument :  
 BNA\_F  
 ClientSampled :

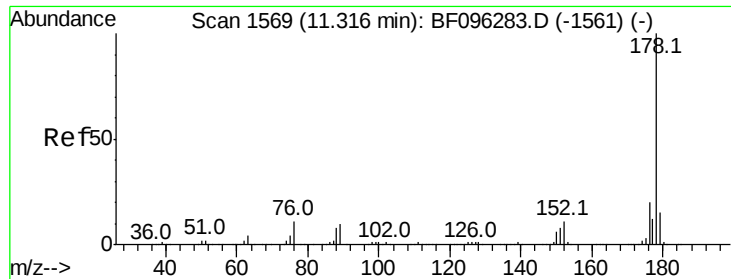
Tot Ion:166 Resp: 697  
 Ion Ratio Lower Upper  
 166 100  
 165 174.5 78.8 118.2#  
 167 0.0 10.6 16.0#



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.29 min Scan# 1564  
 Delta R.T. -0.00 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

Tgt Ion:188 Resp: 315481  
 Ion Ratio Lower Upper  
 188 100  
 94 14.2 9.4 14.2#  
 80 14.4 10.2 15.2

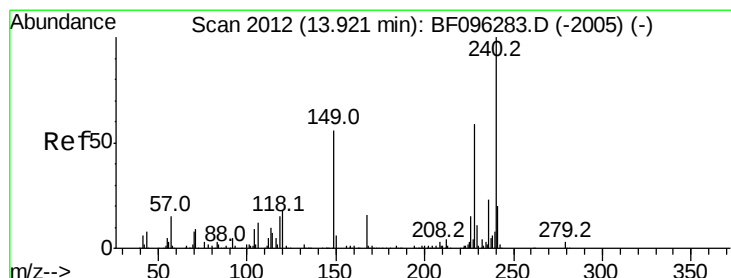
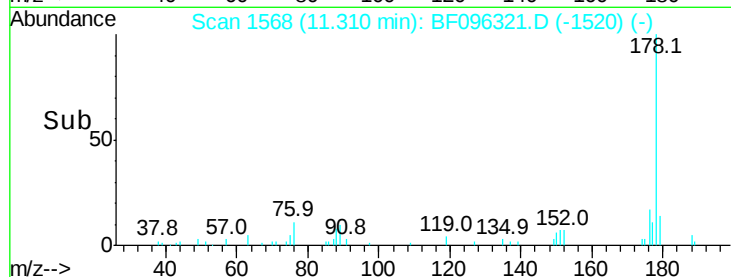
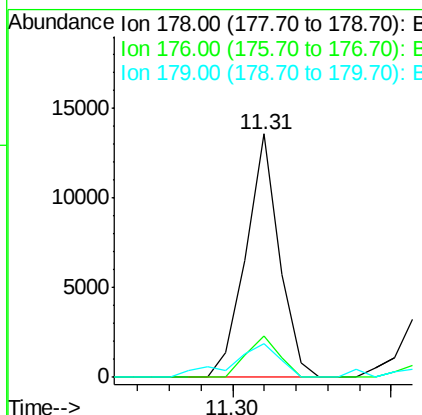
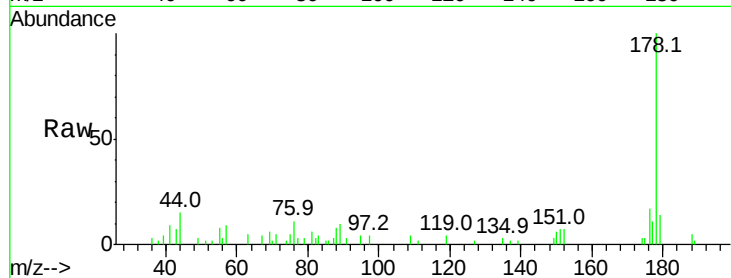




#70  
Phenanthrene  
Concen: Below Cal  
RT: 11.31 min Scan# 1568  
Delta R.T. -0.02 min  
Lab File: BF096321.D  
Acq: 30 Jun 2017 4:50

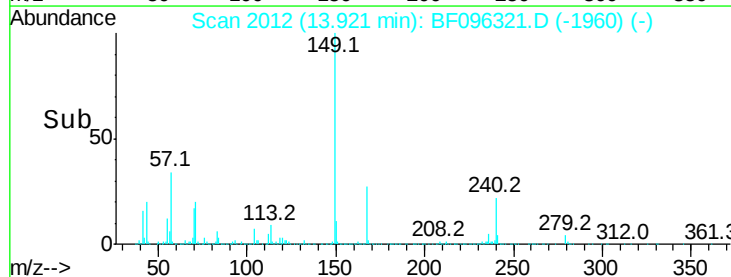
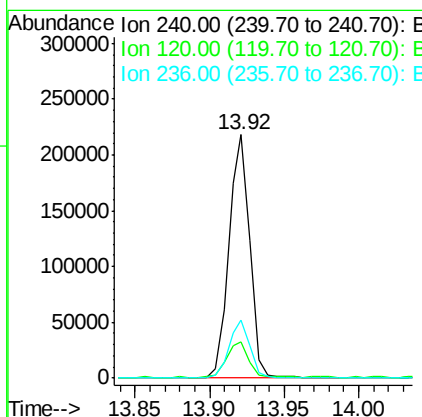
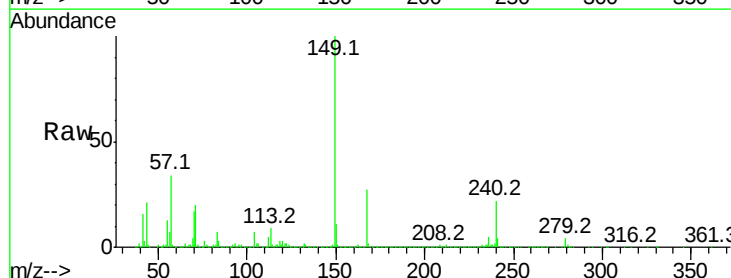
Instrument :  
BNA\_F  
ClientSampleId :

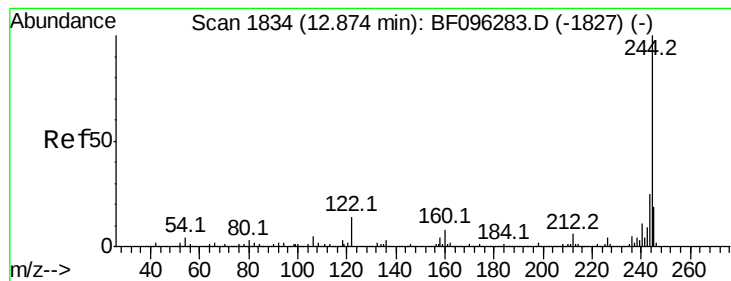
Tot Ion:178 Resp: 9890  
Ion Ratio Lower Upper  
178 100  
176 17.1 16.2 24.4  
179 13.9 12.6 19.0



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. 0.01 min  
Lab File: BF096321.D  
Acq: 30 Jun 2017 4:50

Tgt Ion:240 Resp: 215891  
Ion Ratio Lower Upper  
240 100  
120 15.2 5.8 8.8#  
236 23.7 20.5 30.7





#78

Terphenyl-d14

Concen: 10.09 ng

RT: 12.87 min Scan# 1833

Delta R.T. -0.00 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

Instrument :

BNA\_F

ClientSampleId :

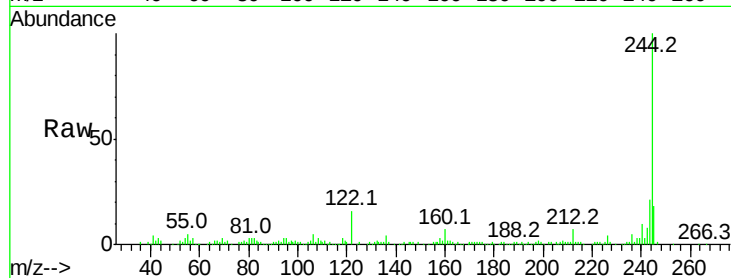
Tot Ion:244 Resp: 87281

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

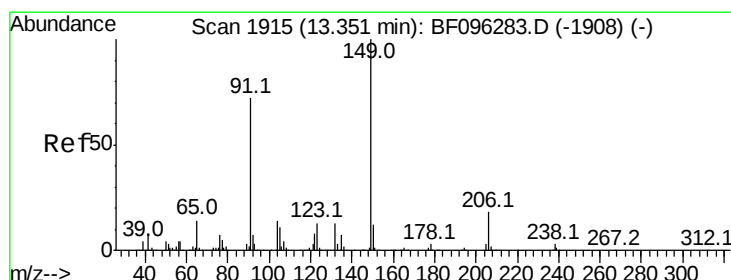
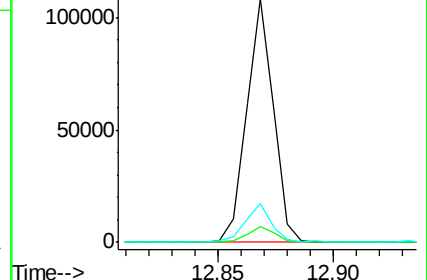
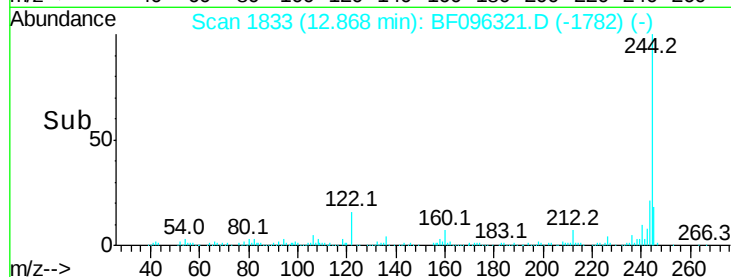
122 15.9 10.3 15.5#



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



#79

Butylbenzylphthalate

Concen: 191.25 ng

RT: 13.36 min Scan# 1917

Delta R.T. 0.01 min

Lab File: BF096321.D

Acq: 30 Jun 2017 4:50

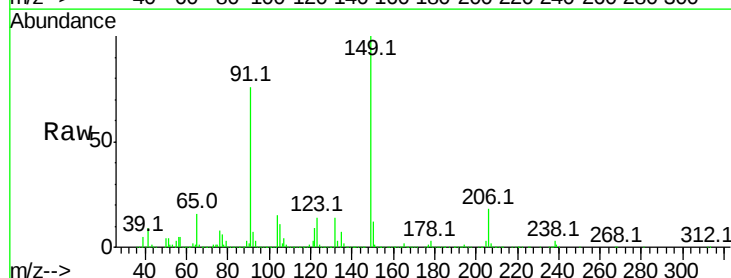
Tgt Ion:149 Resp: 1554931

Ion Ratio Lower Upper

149 100

91 76.4 45.0 67.4#

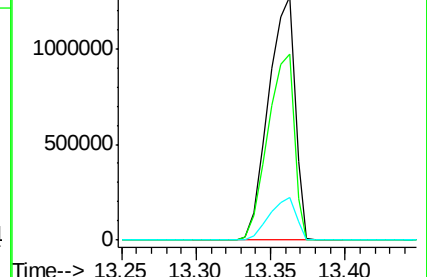
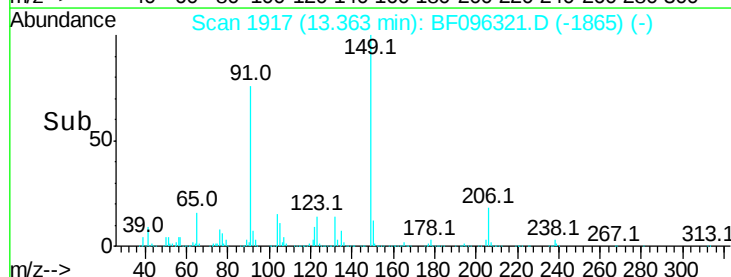
206 17.7 17.0 25.6

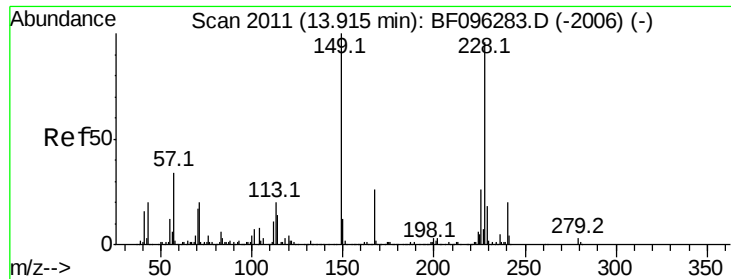


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E

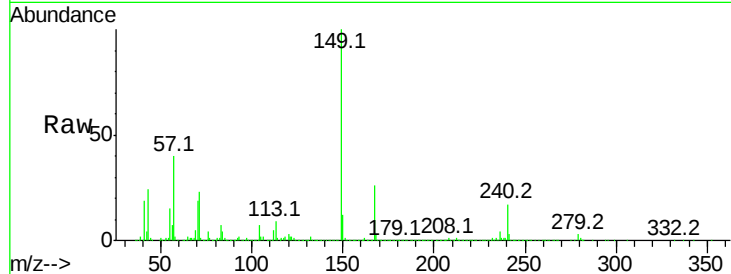




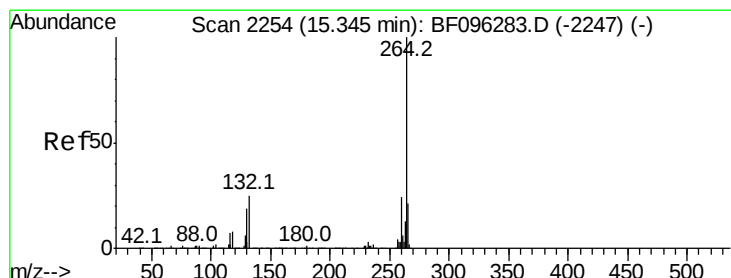
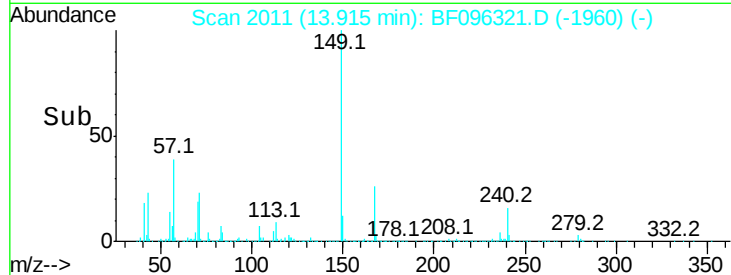
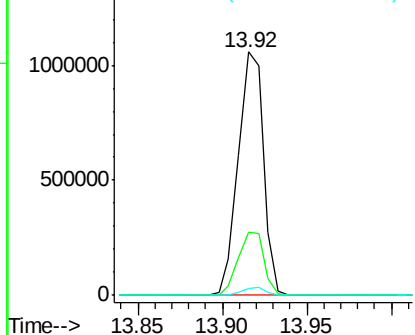
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 124.69 ng  
 RT: 13.92 min Scan# 2011  
 Delta R.T. -0.00 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:149 Resp: 1101704  
 Ion Ratio Lower Upper  
 149 100  
 167 26.0 21.0 31.4  
 279 3.0 1.9 2.9#

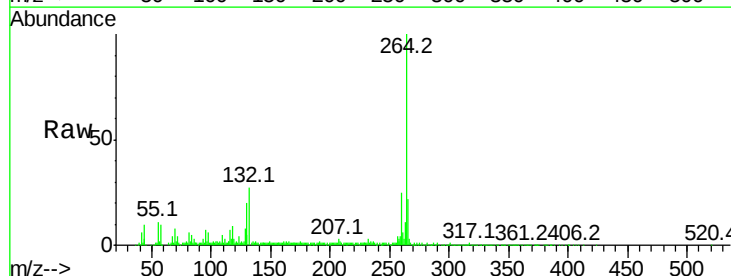


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.34 min Scan# 2254  
 Delta R.T. 0.01 min  
 Lab File: BF096321.D  
 Acq: 30 Jun 2017 4:50

Tgt Ion:264 Resp: 187038  
 Ion Ratio Lower Upper  
 264 100  
 260 25.2 19.5 29.3  
 265 22.2 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

