

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050817\  
 Data File : BF095018.D  
 Acq On : 9 May 2017 12:07  
 Operator : SJ/MA  
 Sample : I3013-03  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 09 13:04:14 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

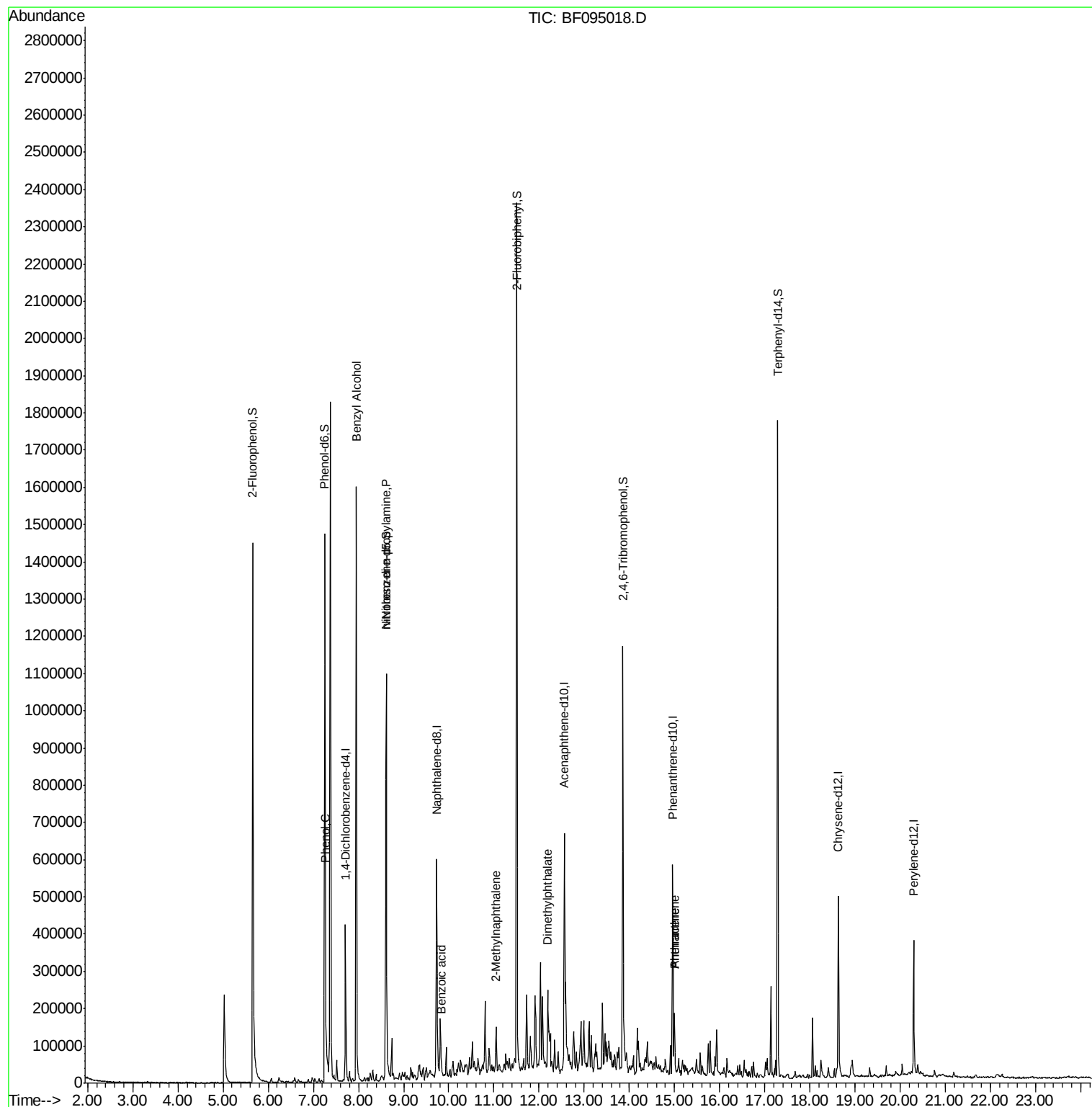
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.71  | 152  | 86254    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 9.73  | 136  | 365769   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 12.56 | 164  | 174416   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 14.96 | 188  | 273676   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 18.63 | 240  | 209804   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 20.30 | 264  | 170222   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.66  | 112  | 709118   | 137.07 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.26  | 99   | 878947   | 141.60 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 8.61  | 82   | 530488   | 91.46  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.86 | 330  | 182117   | 127.50 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 11.51 | 172  | 988511   | 81.58  | ng    | -0.02    |
| 78) Terphenyl-d14              | 17.29 | 244  | 653584   | 68.61  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 10) Phenol                     | 7.27  | 94   | 18196    | 2.78   | ng    | 85       |
| 15) Benzyl Alcohol             | 7.95  | 79   | 8511     | 2.13   | ng    | # 40     |
| 19) n-Nitroso-di-n-propylamine | 8.61  | 70   | 69415    | 16.53  | ng    | # 77     |
| 32) Benzoic acid               | 9.84  | 122  | 782      | 5.28   | ng    | 88       |
| 37) 2-Methylnaphthalene        | 11.05 | 142  | 37347    | 3.10   | ng    | 98       |
| 49) Dimethylphthalate          | 12.20 | 163  | 114119   | 7.97   | ng    | 99       |
| 70) Phenanthrene               | 15.00 | 178  | 87481    | 5.56   | ng    | 98       |
| 71) Anthracene                 | 15.00 | 178  | 87481    | 5.45   | ng    | 99       |

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

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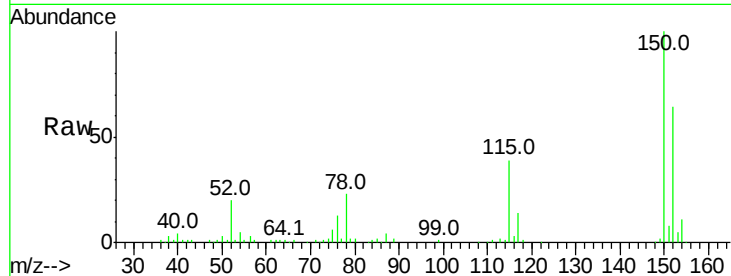


#1

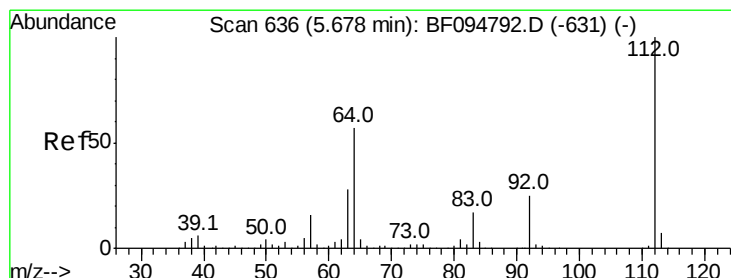
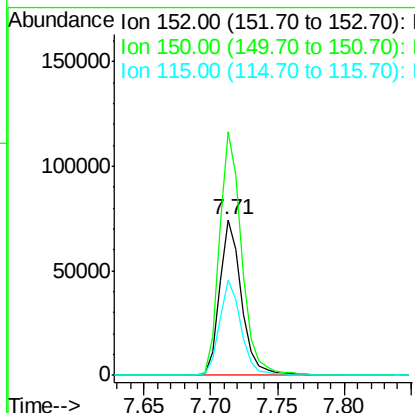
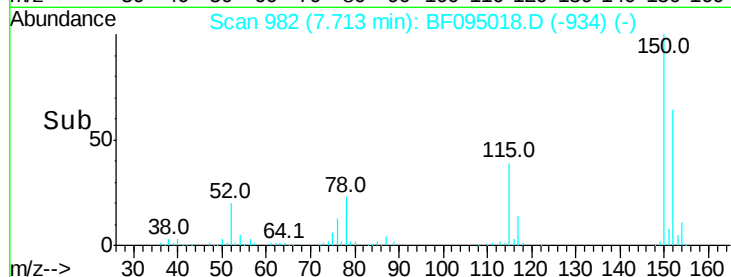
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.71 min Scan# 982  
Delta R.T. -0.02 min  
Lab File: BF095018.D  
Acq: 9 May 2017 12:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 86254  
Ion Ratio Lower Upper  
152 100  
150 156.2 126.2 189.2  
115 60.9 52.2 78.2



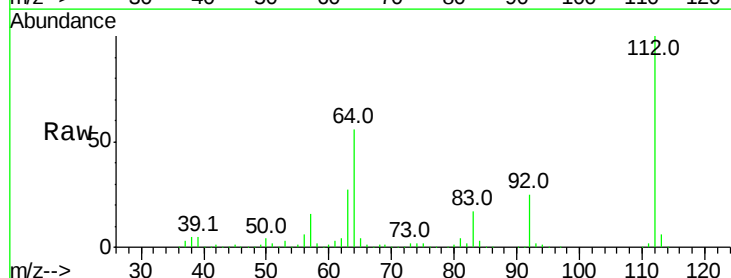
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



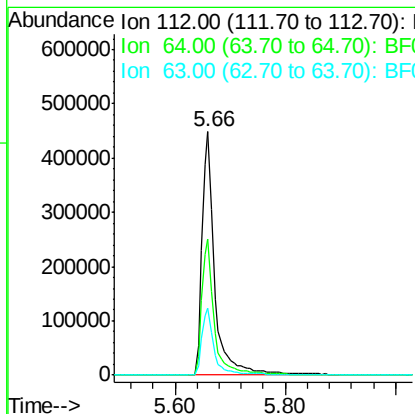
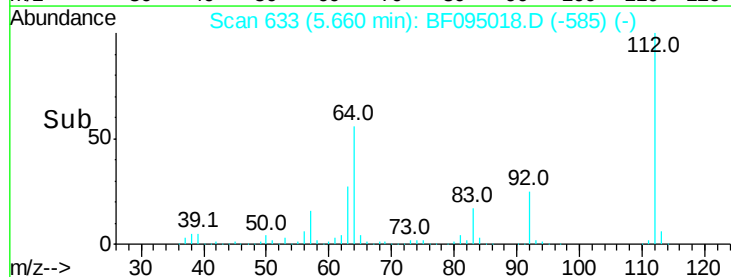
#5

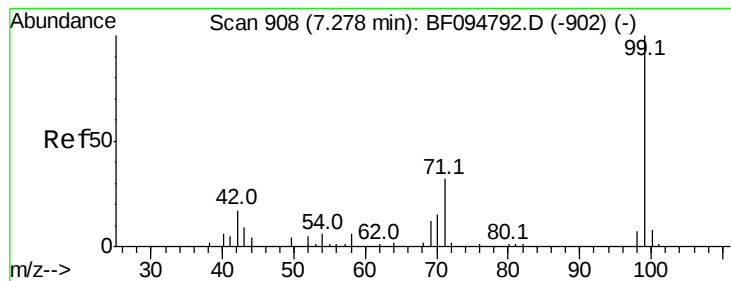
2-Fluorophenol  
Concen: 137.07 ng  
RT: 5.66 min Scan# 633  
Delta R.T. -0.02 min  
Lab File: BF095018.D  
Acq: 9 May 2017 12:07

Tgt Ion:112 Resp: 709118  
Ion Ratio Lower Upper  
112 100  
64 56.1 46.0 69.0  
63 27.3 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: 141.60 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

Instrument :

BNA\_F

ClientSampled :

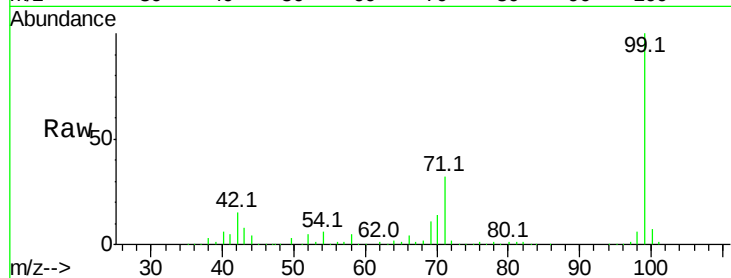
Tot Ion: 99 Resp: 878947

Ion Ratio Lower Upper

99 100

42 15.5 13.5 20.3

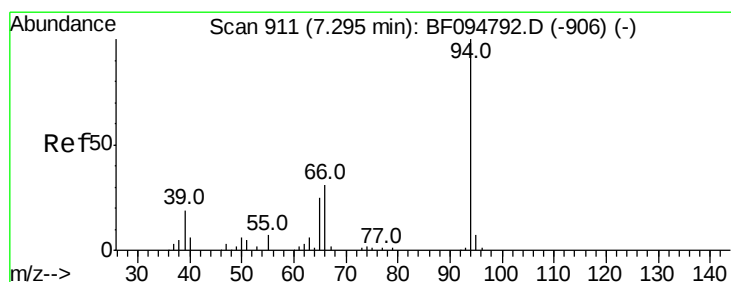
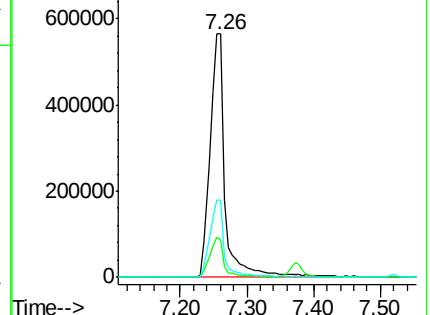
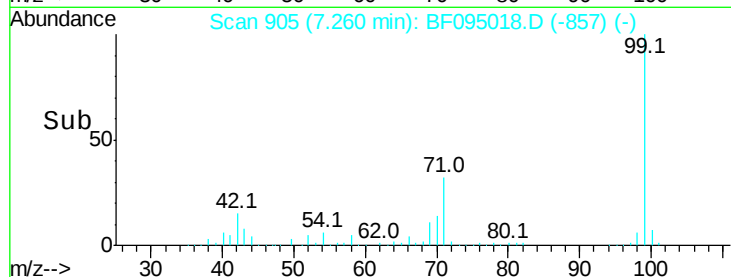
71 31.6 24.5 36.7



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



#10

Phenol

Concen: 2.78 ng

RT: 7.27 min Scan# 907

Delta R.T. -0.02 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

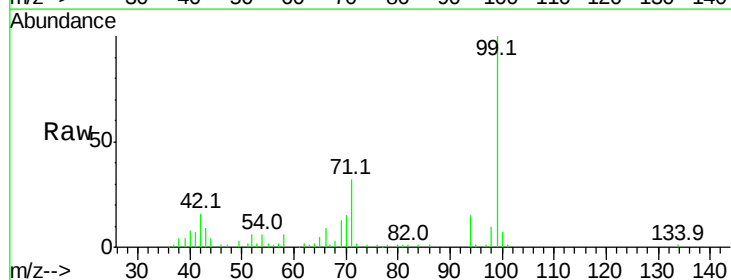
Tgt Ion: 94 Resp: 18196

Ion Ratio Lower Upper

94 100

65 32.4 9.9 49.9

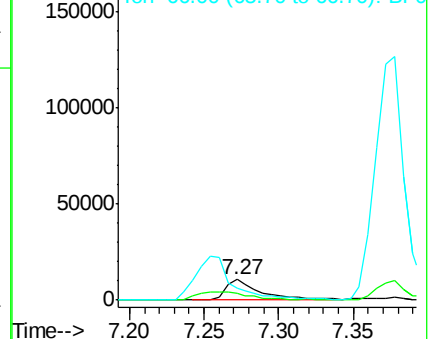
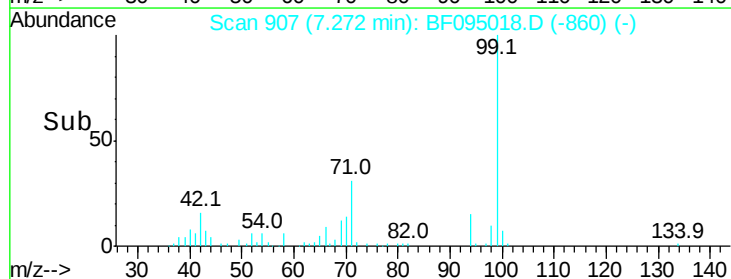
66 57.5 23.1 63.1

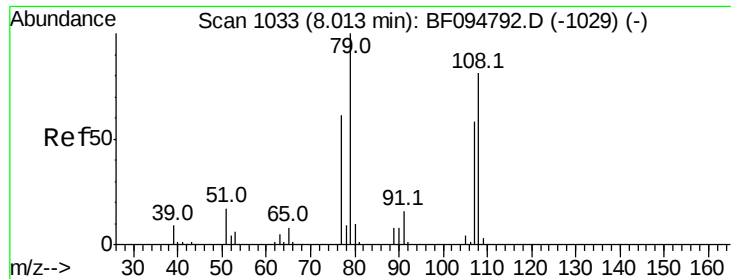


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.13 ng

RT: 7.95 min Scan# 1022

Delta R.T. -0.06 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

Instrument :

BNA\_F

ClientSampled :

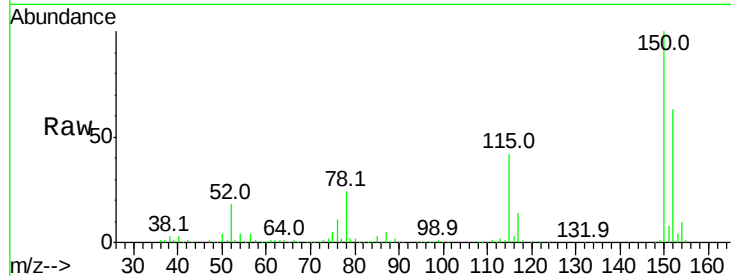
Tot Ion: 79 Resp: 8511

Ion Ratio Lower Upper

79 100

108 22.5 63.4 95.0#

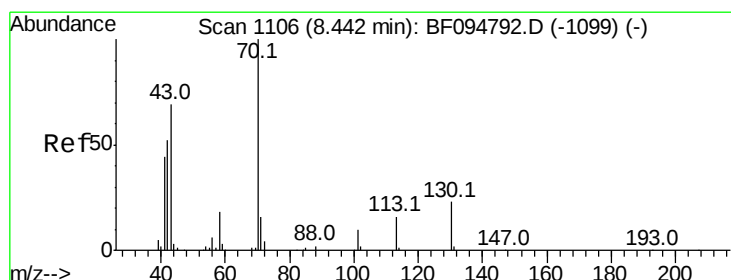
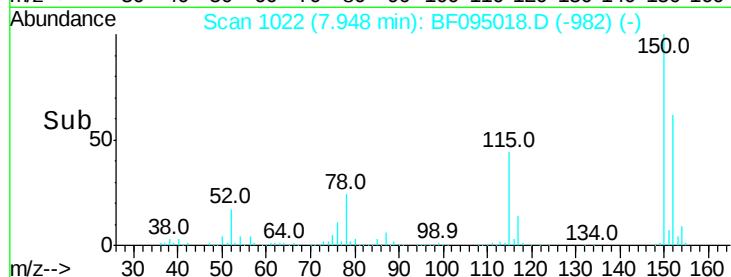
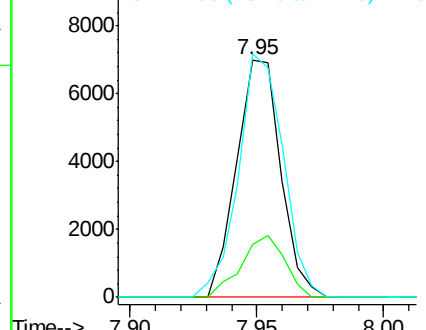
77 102.6 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 16.53 ng

RT: 8.61 min Scan# 1135

Delta R.T. 0.17 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

Tgt Ion: 70 Resp: 69415

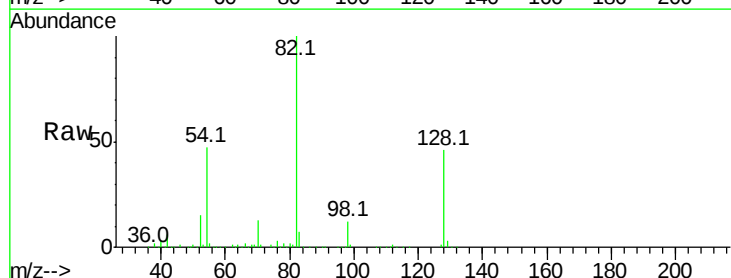
Ion Ratio Lower Upper

70 100

42 46.2 47.2 70.8#

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#

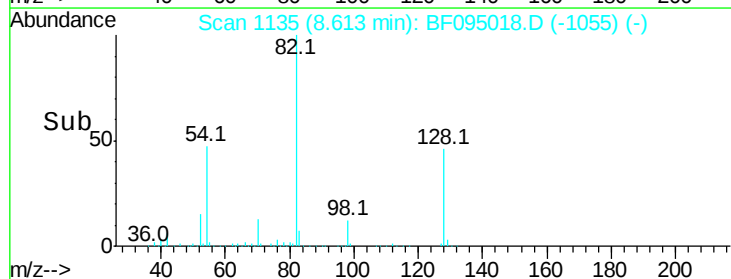
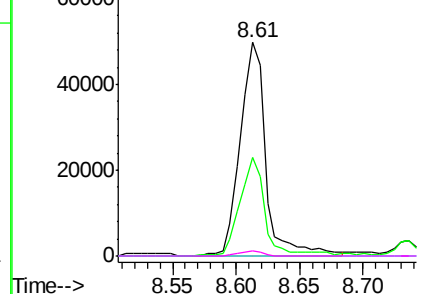


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 9.73 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 365769

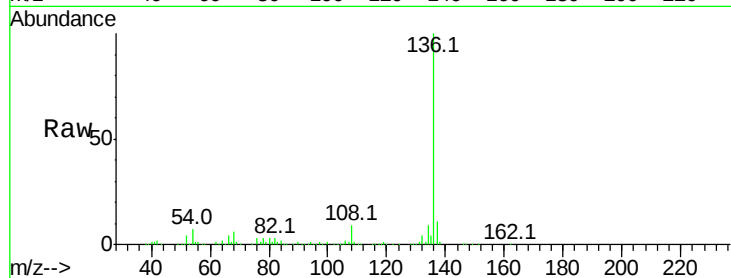
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.1 4.9 7.3

68 5.5 4.1 6.1

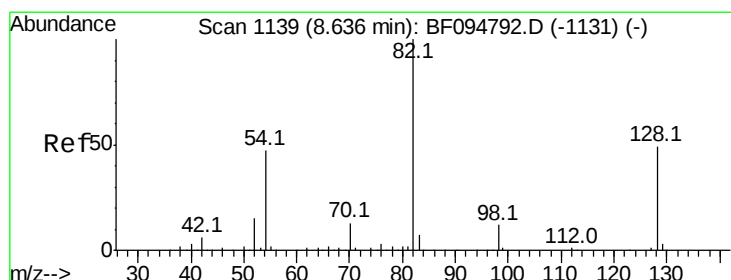
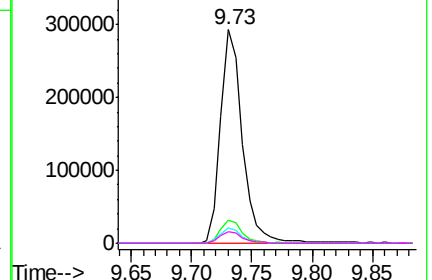
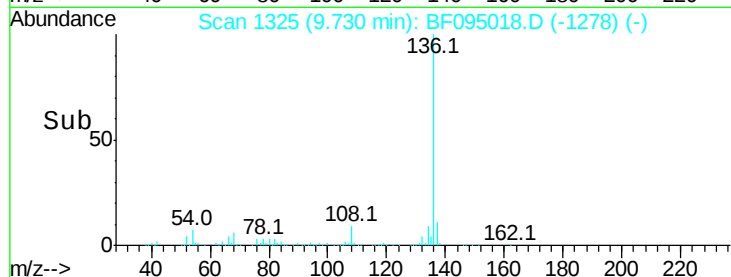


Abundance Ion 136.00 (135.70 to 136.70): E

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: 91.46 ng

RT: 8.61 min Scan# 1135

Delta R.T. -0.02 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

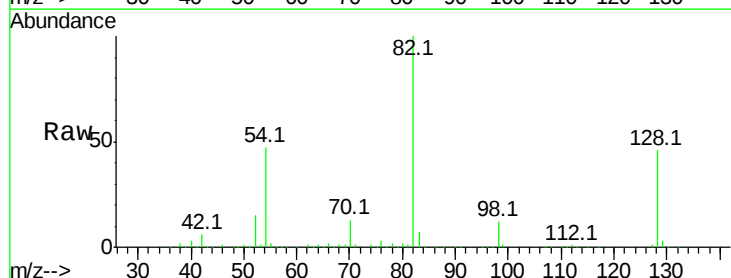
Tgt Ion: 82 Resp: 530488

Ion Ratio Lower Upper

82 100

128 46.1 34.0 51.0

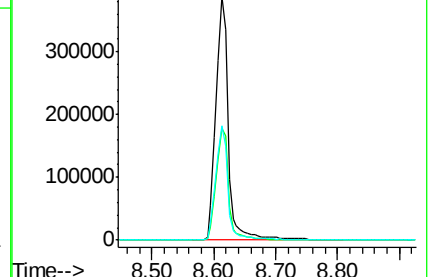
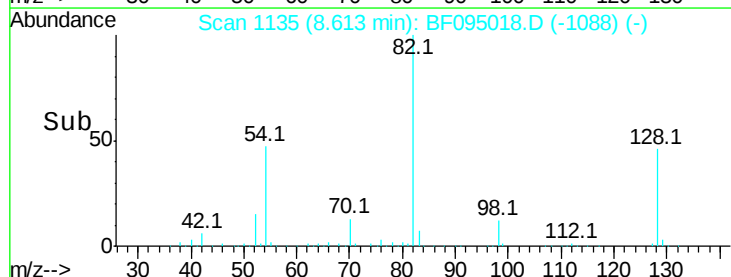
54 46.8 42.2 63.2

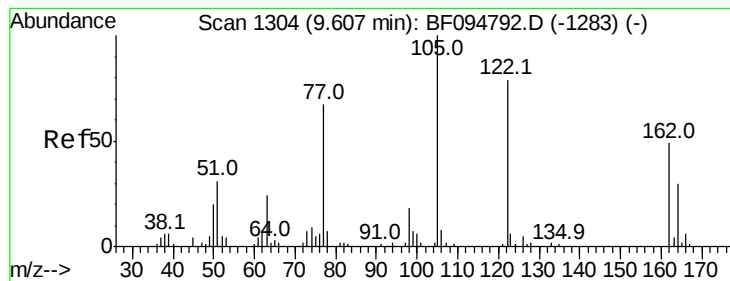


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#32

Benzoic acid

Concen: 5.28 ng

RT: 9.84 min Scan# 1344

Delta R.T. 0.24 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

Instrument :

BNA\_F

ClientSampled :

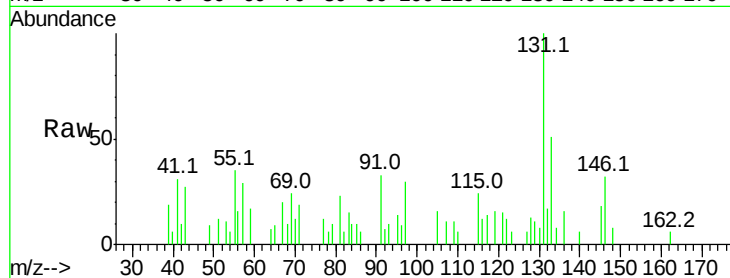
Tot Ion:122 Resp: 782

Ion Ratio Lower Upper

122 100

105 135.5 103.3 143.3

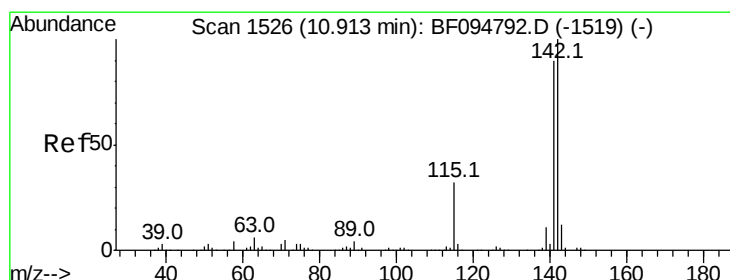
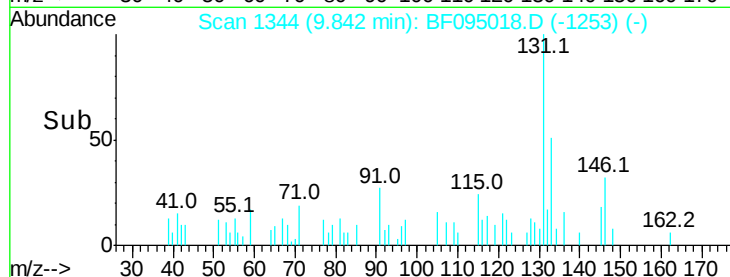
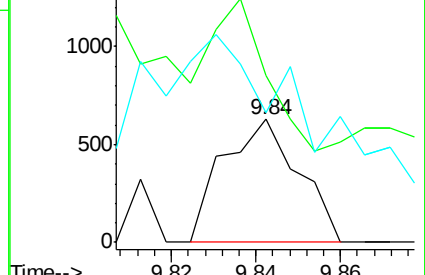
77 105.7 73.7 113.7



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



#37

2-Methylnaphthalene

Concen: 3.10 ng

RT: 11.05 min Scan# 1549

Delta R.T. 0.14 min

Lab File: BF095018.D

Acq: 9 May 2017 12:07

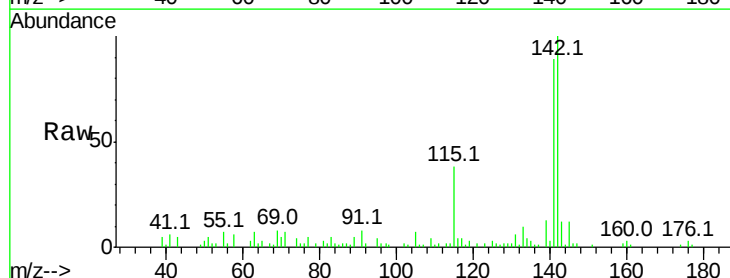
Tgt Ion:142 Resp: 37347

Ion Ratio Lower Upper

142 100

141 89.1 71.3 106.9

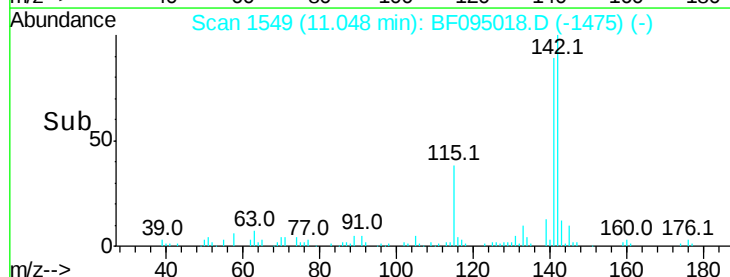
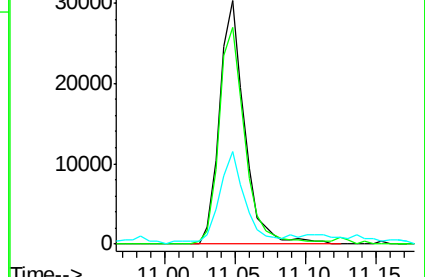
115 37.8 27.1 40.7

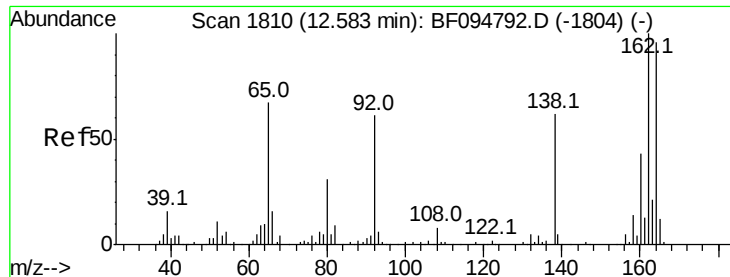


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

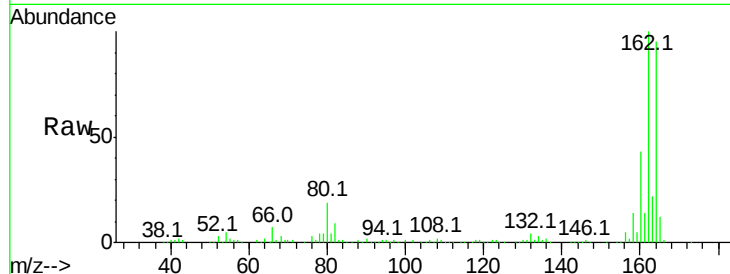




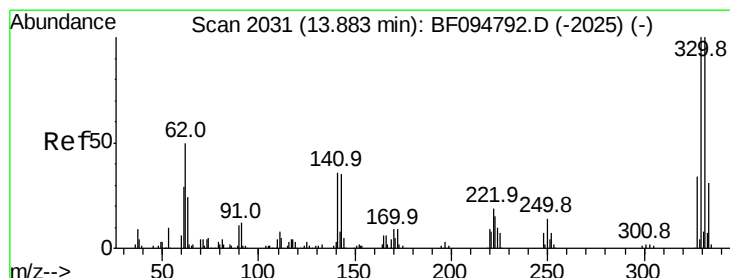
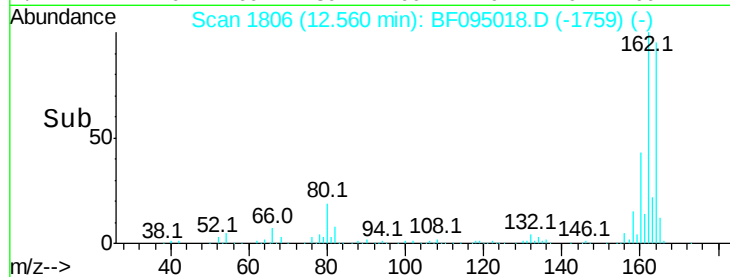
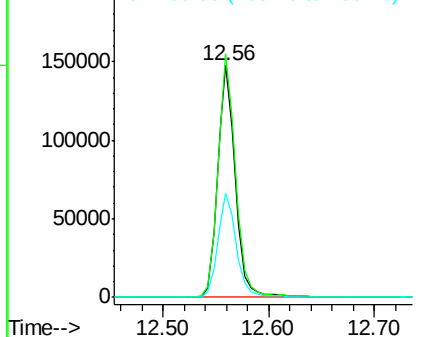
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.56 min Scan# 1806  
 Delta R.T. -0.02 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.0 | 82.6  | 123.8 |
| 160     | 44.6  | 36.2  | 54.2  |

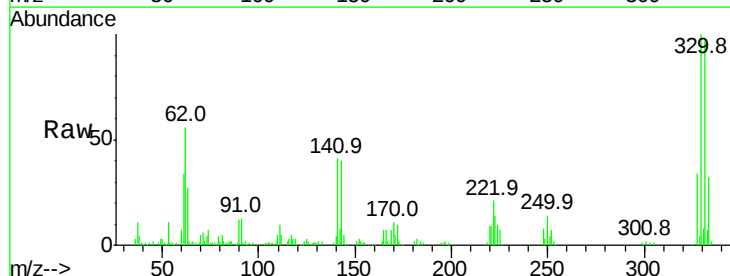


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

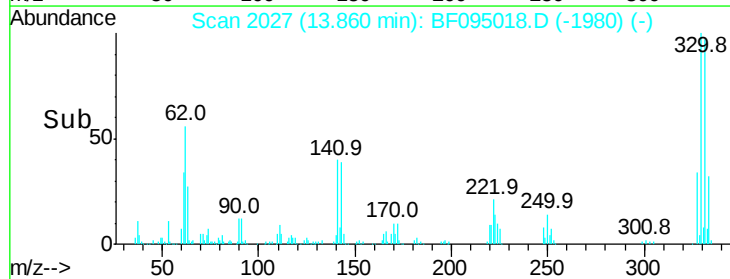
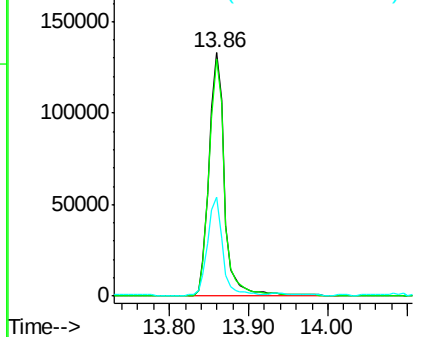


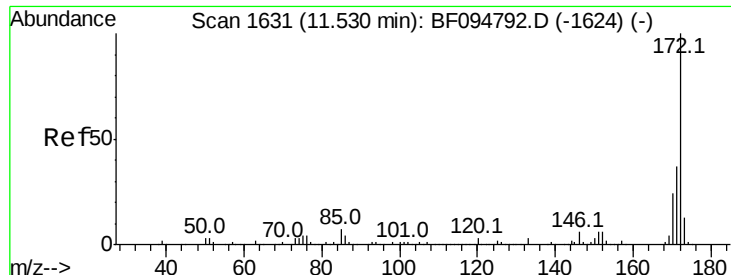
#41  
 2,4,6-Tribromophenol  
 Concen: 127.50 ng  
 RT: 13.86 min Scan# 2027  
 Delta R.T. -0.02 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 76.6  | 115.0 |
| 141     | 38.9  | 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

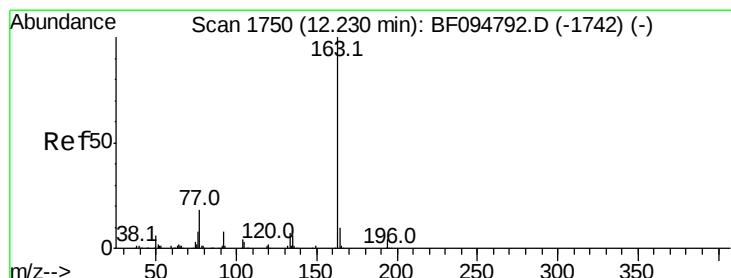
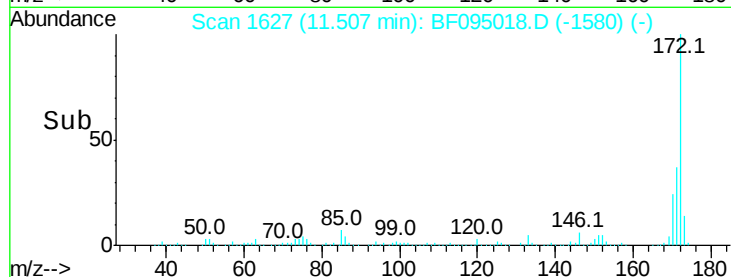
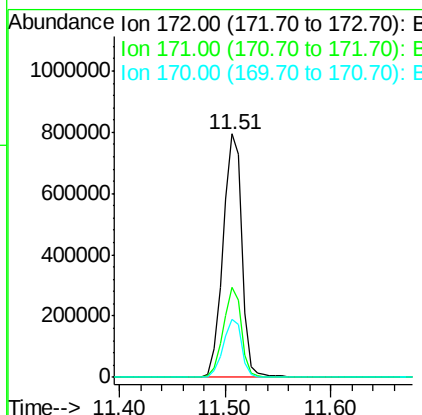
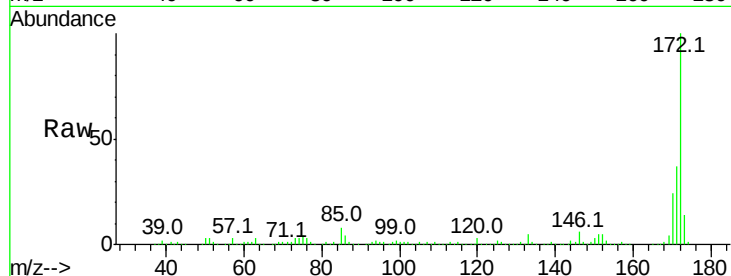




#44  
 2-Fluorobiphenyl  
 Concen: 81.58 ng  
 RT: 11.51 min Scan# 1627  
 Delta R.T. -0.02 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

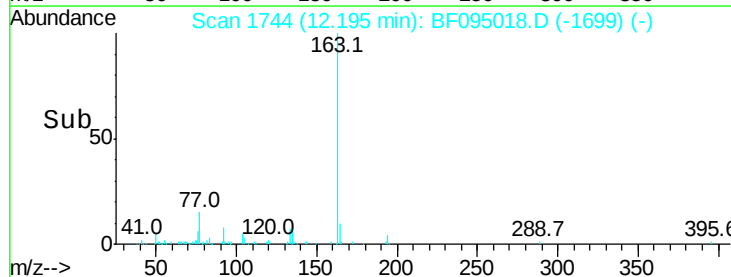
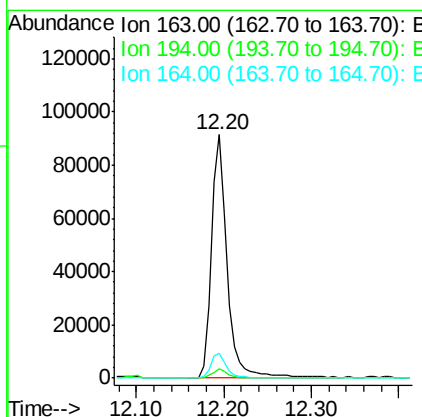
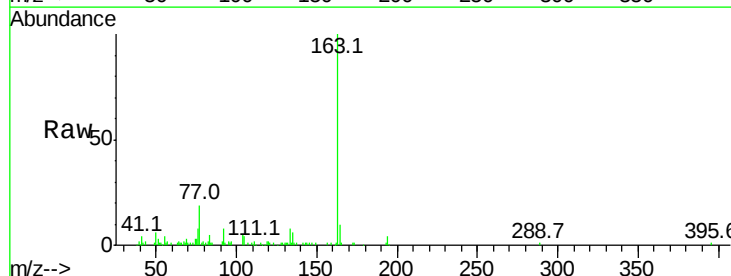
Instrument :  
 BNA\_F  
 ClientSampleId :

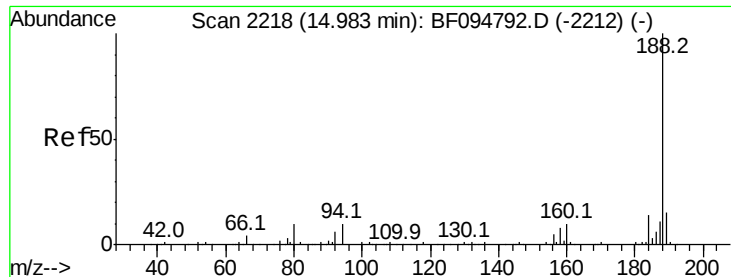
Tot Ion:172 Resp: 988511  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.6 44.4  
 170 23.9 19.8 29.8



#49  
 Dimethylphthalate  
 Concen: 7.97 ng  
 RT: 12.20 min Scan# 1744  
 Delta R.T. -0.04 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

Tgt Ion:163 Resp: 114119  
 Ion Ratio Lower Upper  
 163 100  
 194 3.8 2.6 4.0  
 164 9.9 8.4 12.6

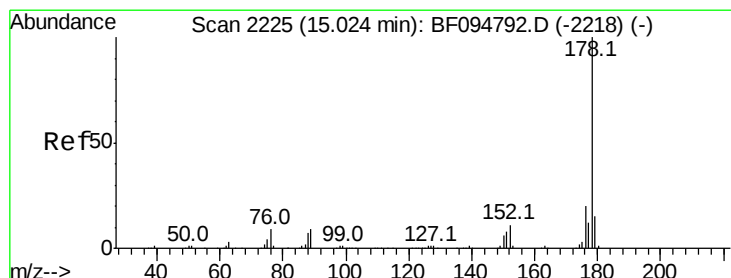
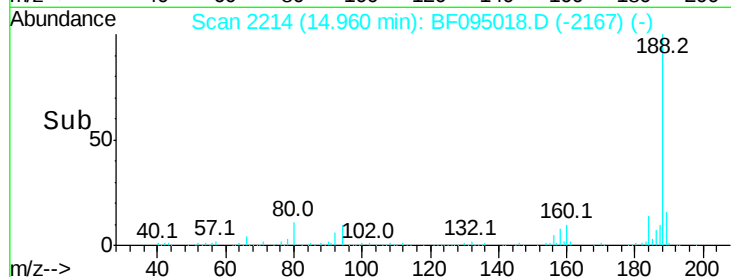
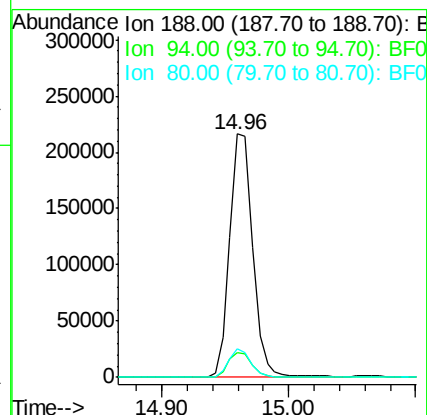
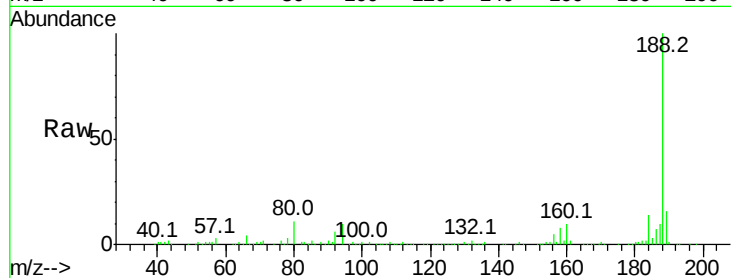




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.96 min Scan# 2214  
 Delta R.T. -0.02 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

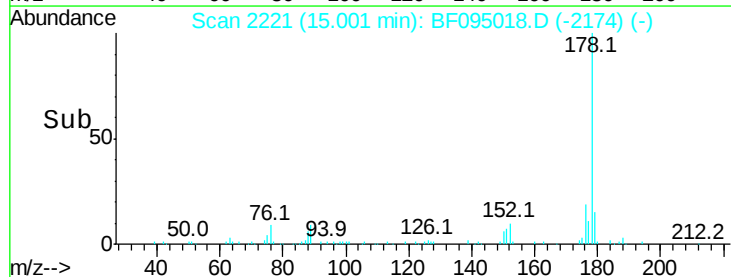
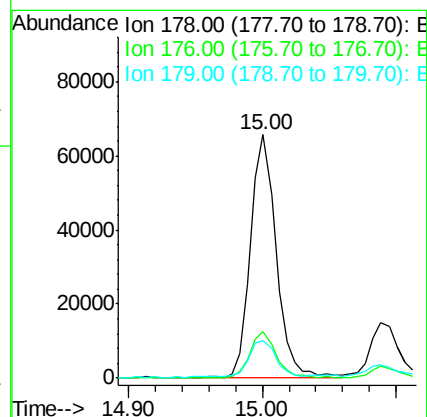
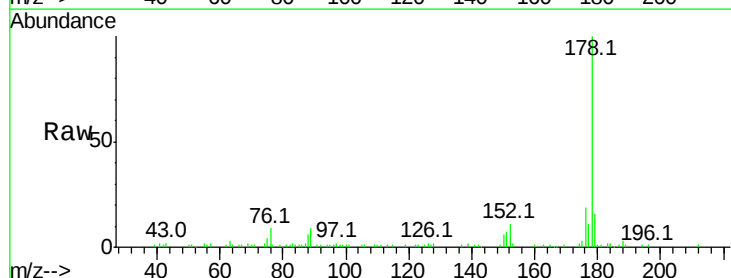
Instrument :  
 BNA\_F  
 ClientSampled :

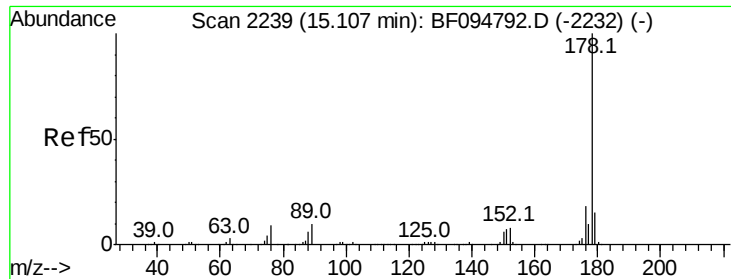
Tot Ion:188 Resp: 273676  
 Ion Ratio Lower Upper  
 188 100  
 94 10.3 9.4 14.2  
 80 11.5 10.2 15.2



#70  
 Phenanthrene  
 Concen: 5.56 ng  
 RT: 15.00 min Scan# 2221  
 Delta R.T. -0.02 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

Tgt Ion:178 Resp: 87481  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 16.2 24.4  
 179 15.6 12.6 19.0

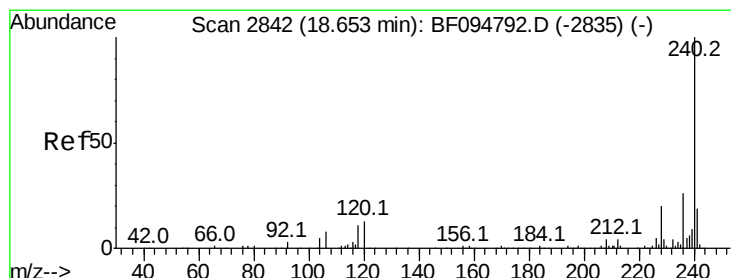
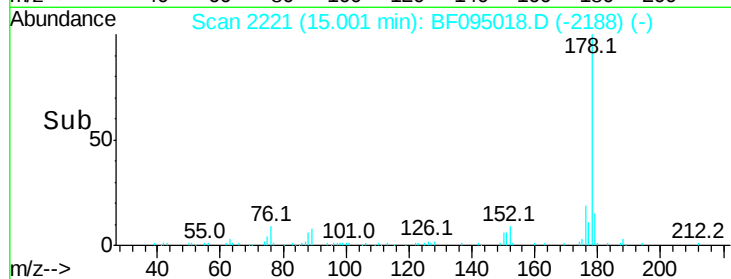
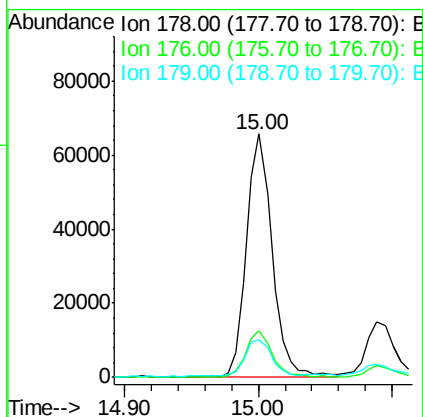
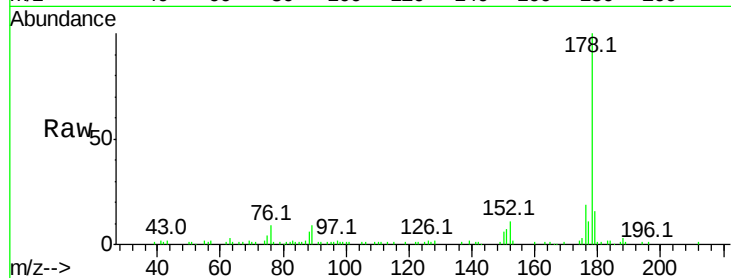




#71  
 Anthracene  
 Concen: 5.45 ng  
 RT: 15.00 min Scan# 2221  
 Delta R.T. -0.11 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

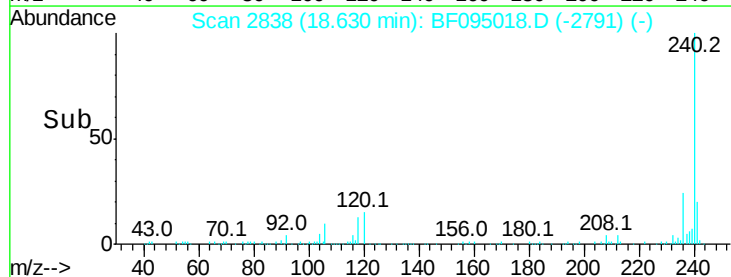
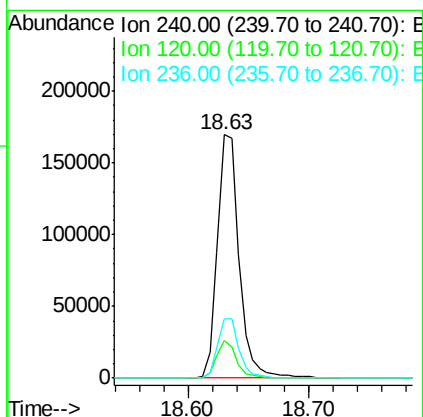
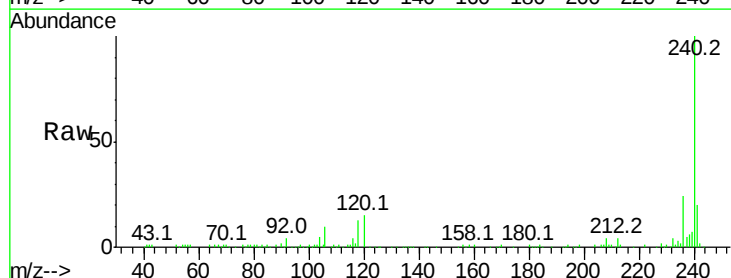
Instrument :  
 BNA\_F  
 ClientSampleId :

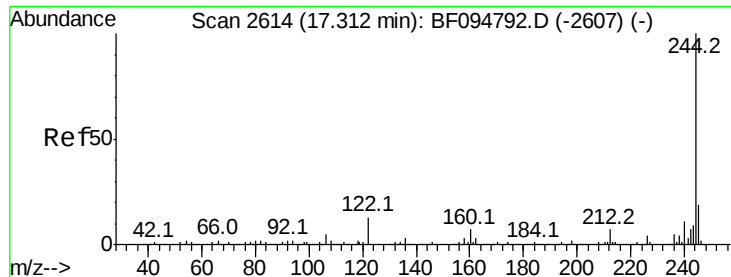
Tot Ion:178 Resp: 87481  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 15.8 23.8  
 179 15.6 12.7 19.1



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.63 min Scan# 2838  
 Delta R.T. -0.02 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

Tgt Ion:240 Resp: 209804  
 Ion Ratio Lower Upper  
 240 100  
 120 15.3 5.8 8.8#  
 236 24.3 20.5 30.7

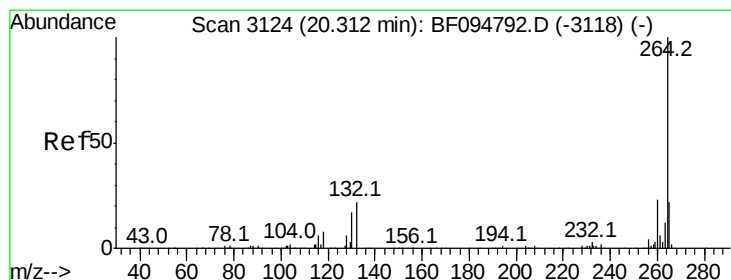
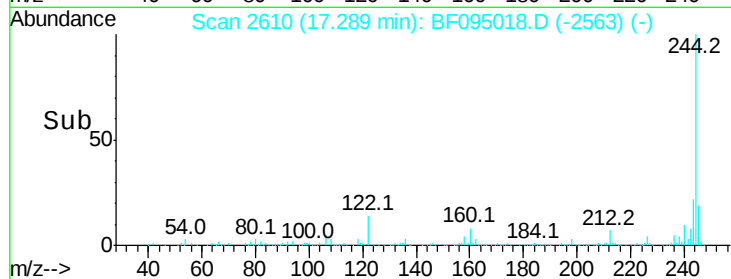
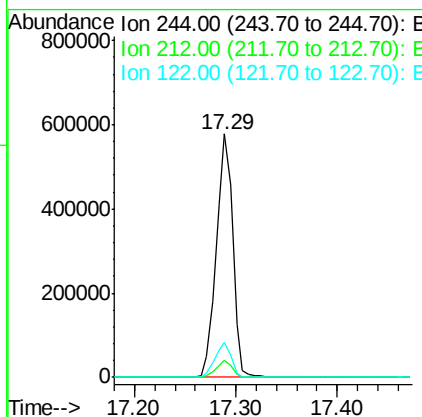
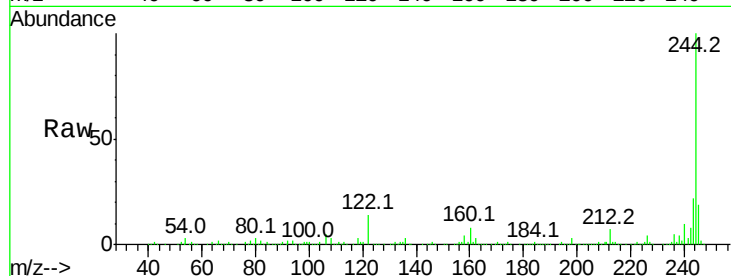




#78  
 Terphenyl-d14  
 Concen: 68.61 ng  
 RT: 17.29 min Scan# 2610  
 Delta R.T. -0.02 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 653584  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 6.0 9.0  
 122 14.4 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.30 min Scan# 3122  
 Delta R.T. -0.01 min  
 Lab File: BF095018.D  
 Acq: 9 May 2017 12:07

Tgt Ion:264 Resp: 170222  
 Ion Ratio Lower Upper  
 264 100  
 260 22.7 19.5 29.3  
 265 22.0 17.2 25.8

