

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050317\  
 Data File : BF094849.D  
 Acq On : 3 May 2017 23:13  
 Operator : SJ/MA  
 Sample : I2940-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 04 01:12:49 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

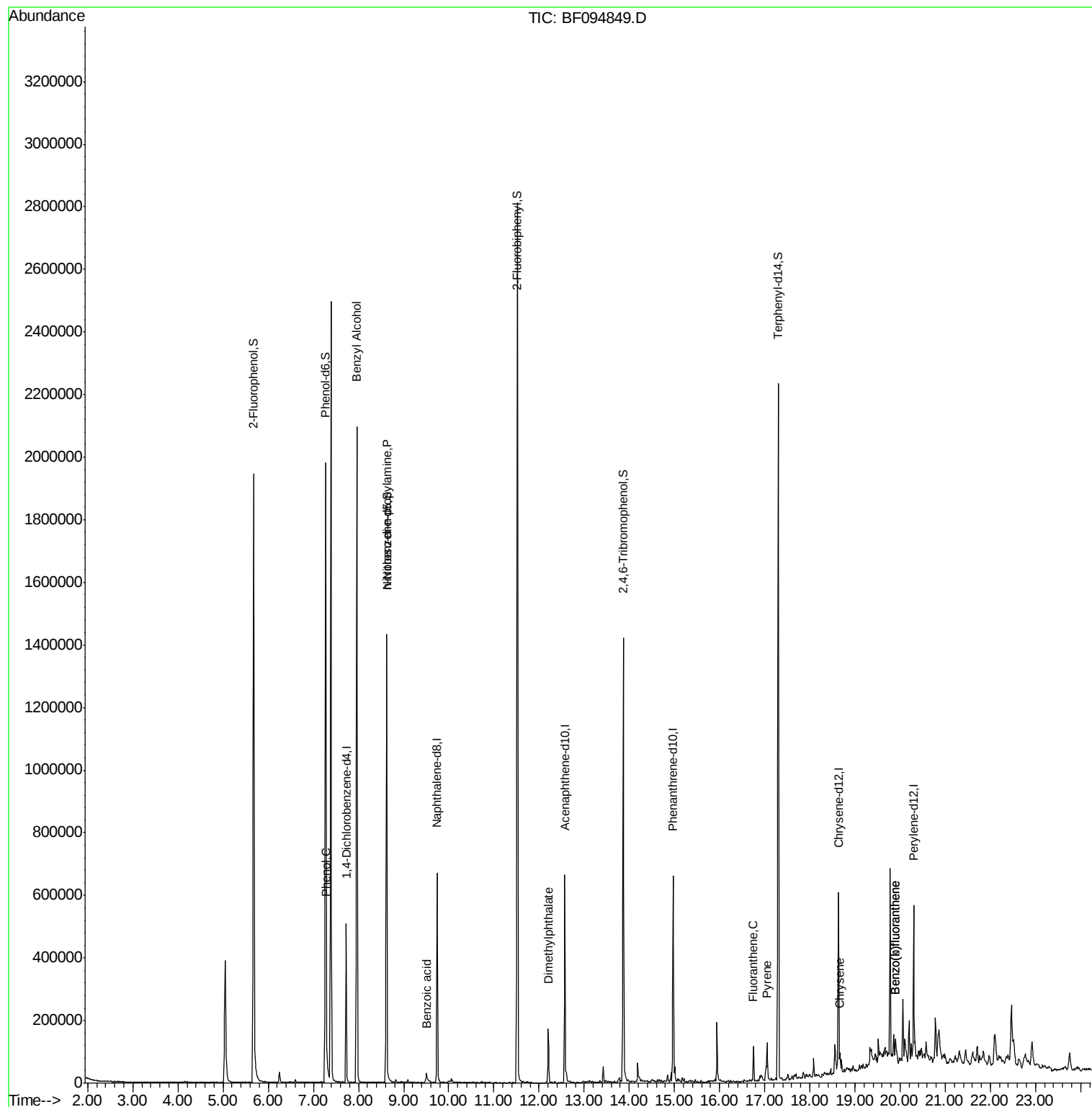
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.72  | 152  | 101006   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 9.74  | 136  | 412507   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 12.57 | 164  | 182255   | 20.00  | ng    | -0.01     |
| 63) Phenanthrene-d10           | 14.97 | 188  | 319850   | 20.00  | ng    | -0.01     |
| 75) Chrysene-d12               | 18.64 | 240  | 222524   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12               | 20.30 | 264  | 198402   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.68  | 112  | 878299   | 144.97 | ng    | 0.00      |
| 7) Phenol-d6                   | 7.27  | 99   | 1162884  | 159.98 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 8.62  | 82   | 683373   | 104.46 | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 13.87 | 330  | 238744   | 159.95 | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 11.52 | 172  | 1275616  | 100.74 | ng    | -0.01     |
| 78) Terphenyl-d14              | 17.30 | 244  | 866028   | 85.72  | ng    | -0.01     |
| Target Compounds               |       |      |          |        |       |           |
| 10) Phenol                     | 7.29  | 94   | 15751    | 2.06   | ng    | Qvalue 92 |
| 15) Benzyl Alcohol             | 7.97  | 79   | 10691    | 2.29   | ng    | # 43      |
| 19) n-Nitroso-di-n-propylamine | 8.62  | 70   | 89465    | 18.20  | ng    | # 75      |
| 32) Benzoic acid               | 9.51  | 122  | 10541    | 7.48   | ng    | 94        |
| 49) Dimethylphthalate          | 12.21 | 163  | 98133    | 6.56   | ng    | 99        |
| 74) Fluoranthene               | 16.75 | 202  | 59011    | 3.13   | ng    | 98        |
| 77) Pyrene                     | 17.05 | 202  | 49939    | 3.00   | ng    | 97        |
| 82) Chrysene                   | 18.67 | 228  | 28315    | 2.26   | ng    | 96        |
| 87) Benzo(b)fluoranthene       | 19.90 | 252  | 35164    | 2.87   | ng    | # 96      |
| 88) Benzo(k)fluoranthene       | 19.90 | 252  | 35164    | 2.97   | ng    | 100       |

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

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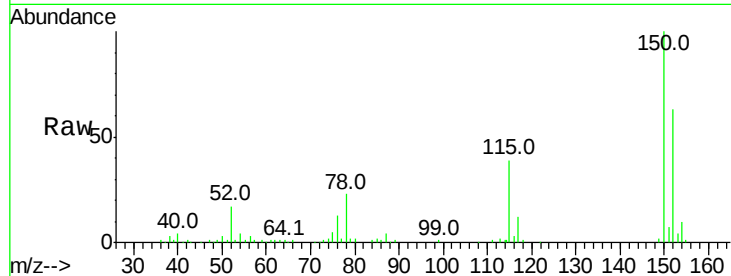


#1

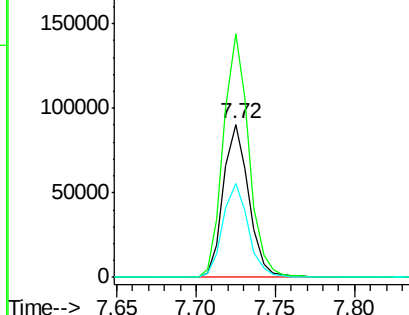
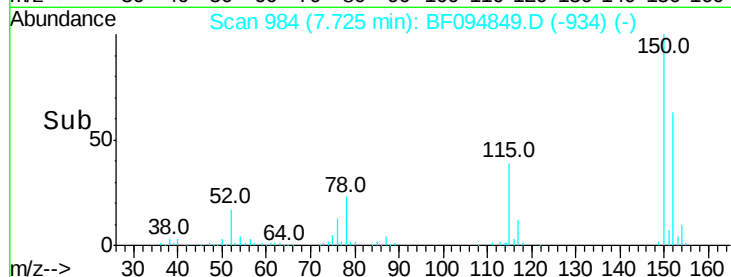
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.72 min Scan# 984  
Delta R.T. -0.01 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 101006  
Ion Ratio Lower Upper  
152 100  
150 159.0 126.2 189.2  
115 61.4 52.2 78.2



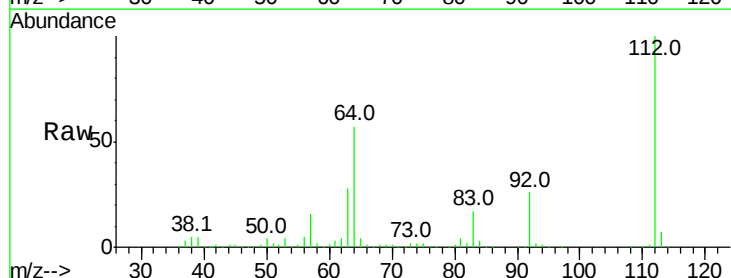
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



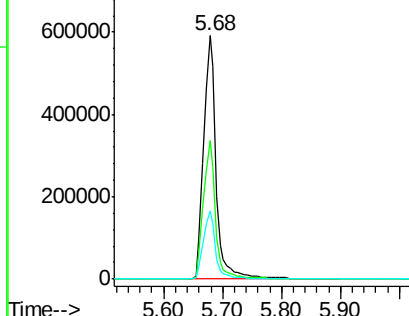
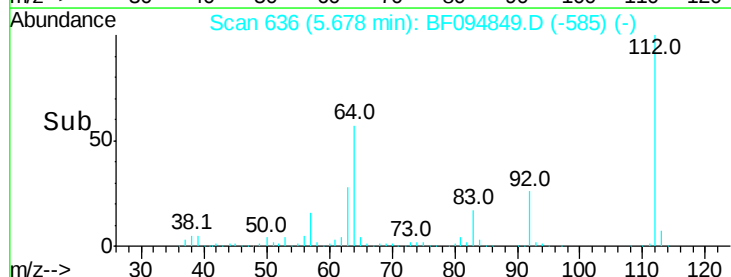
#5

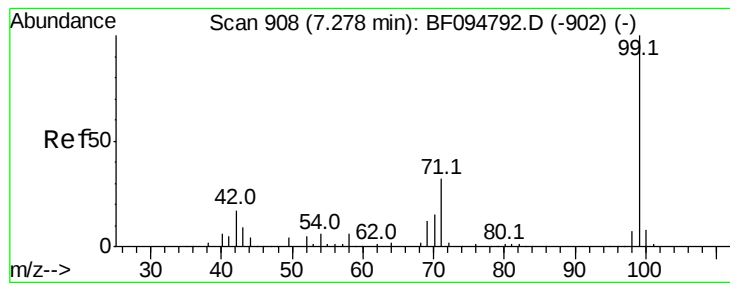
2-Fluorophenol  
Concen: 144.97 ng  
RT: 5.68 min Scan# 636  
Delta R.T. 0.00 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Tgt Ion:112 Resp: 878299  
Ion Ratio Lower Upper  
112 100  
64 56.7 46.0 69.0  
63 27.8 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: 159.98 ng

RT: 7.27 min Scan# 907

Delta R.T. -0.01 min

Lab File: BF094849.D

Acq: 3 May 2017 23:13

Instrument :

BNA\_F

ClientSampled :

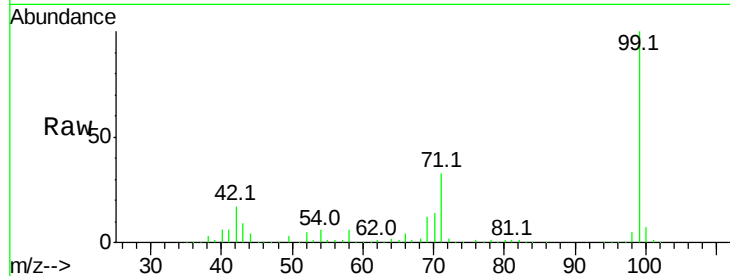
Tot Ion: 99 Resp: 1162884

Ion Ratio Lower Upper

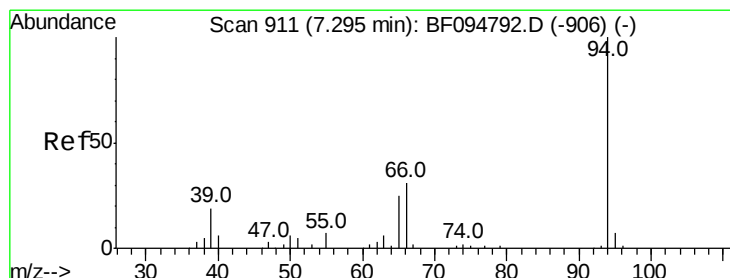
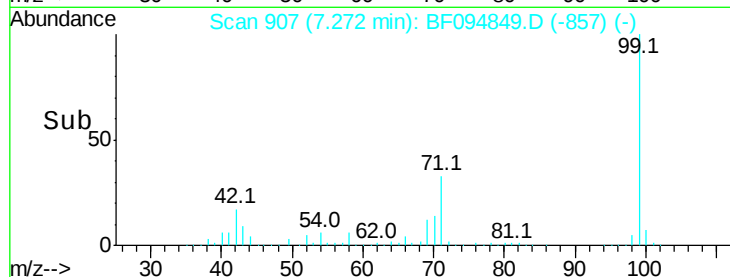
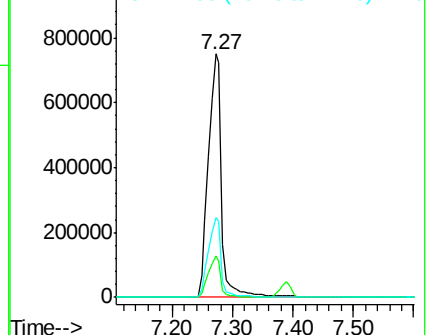
99 100

42 17.0 13.5 20.3

71 32.8 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



#10

Phenol

Concen: 2.06 ng

RT: 7.29 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF094849.D

Acq: 3 May 2017 23:13

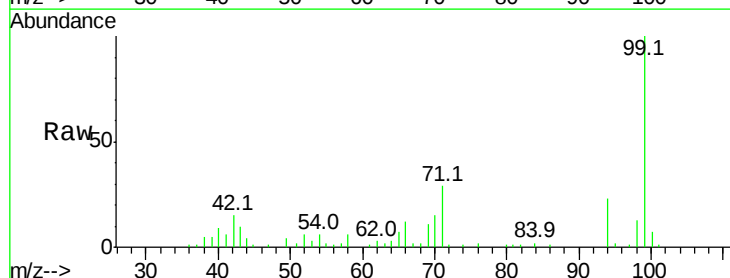
Tgt Ion: 94 Resp: 15751

Ion Ratio Lower Upper

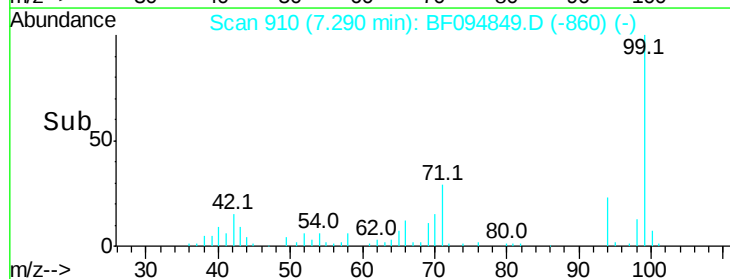
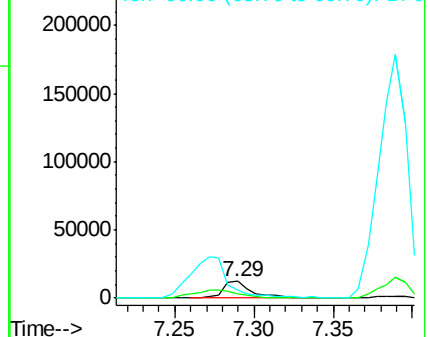
94 100

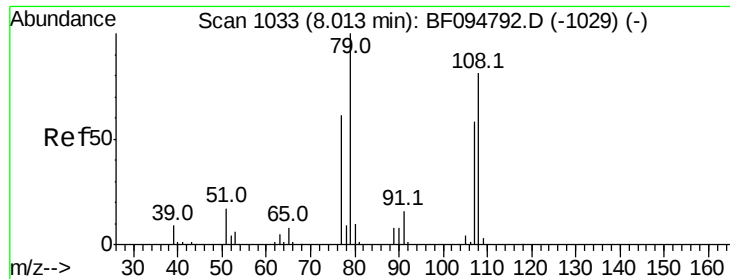
65 28.7 9.9 49.9

66 51.3 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

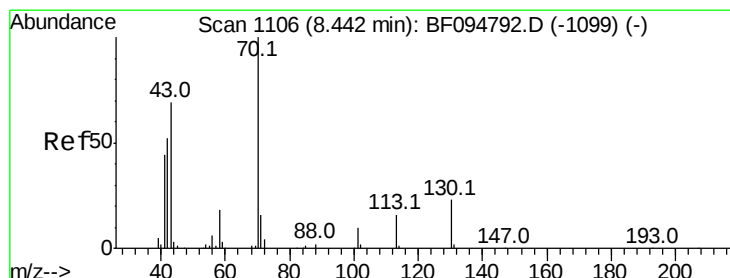
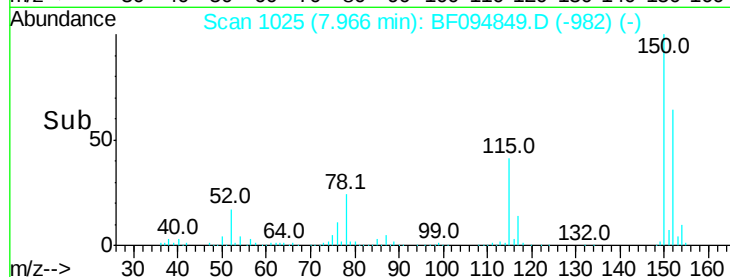
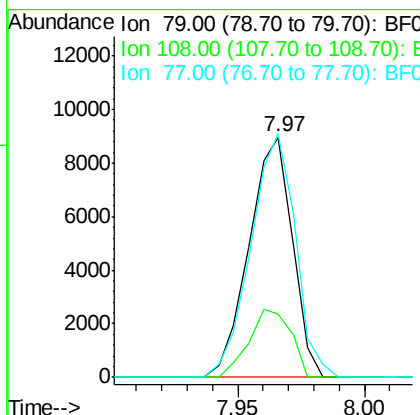
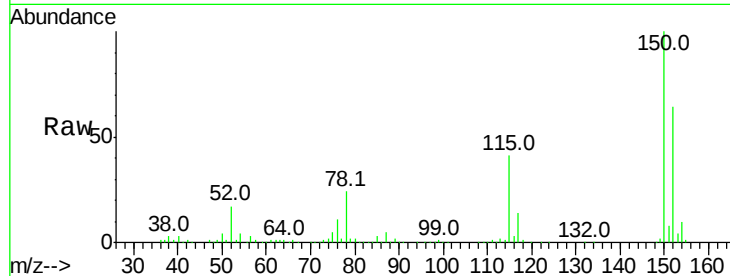




#15  
Benzyl Alcohol  
Concen: 2.29 ng  
RT: 7.97 min Scan# 1025  
Delta R.T. -0.05 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

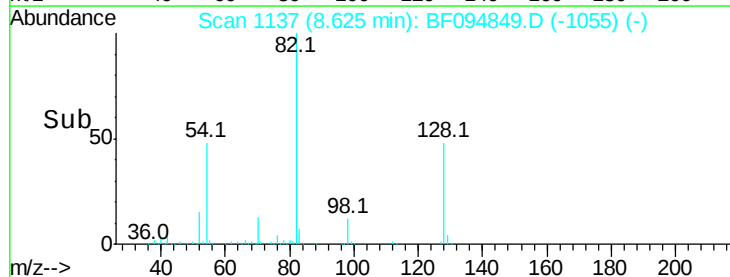
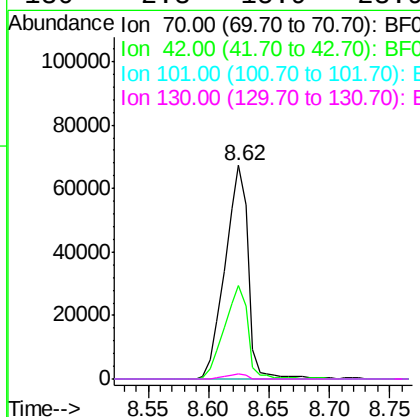
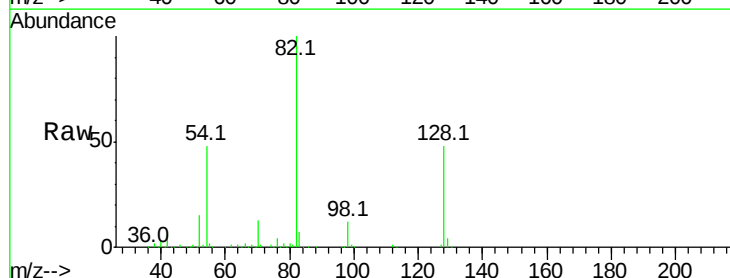
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 79 Resp: 10691  
Ion Ratio Lower Upper  
79 100  
108 26.3 63.4 95.0#  
77 101.5 49.2 73.8#



#19  
n-Nitroso-di-n-propylamine  
Concen: 18.20 ng  
RT: 8.62 min Scan# 1137  
Delta R.T. 0.18 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Tgt Ion: 70 Resp: 89465  
Ion Ratio Lower Upper  
70 100  
42 43.6 47.2 70.8#  
101 0.0 7.2 10.8#  
130 2.3 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.74 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF094849.D

Acq: 3 May 2017 23:13

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 412507

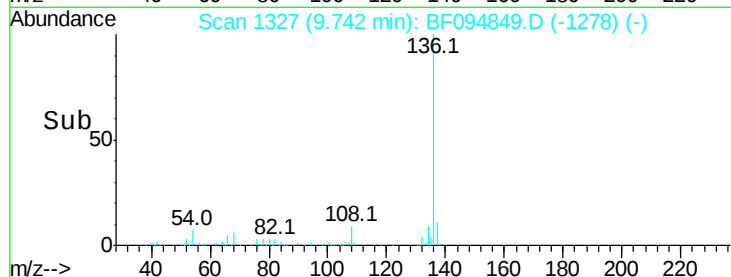
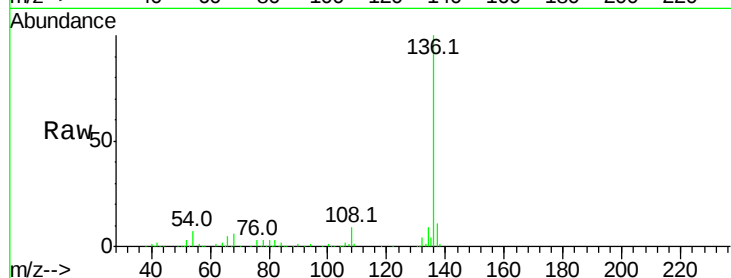
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.0 4.9 7.3

68 5.9 4.1 6.1

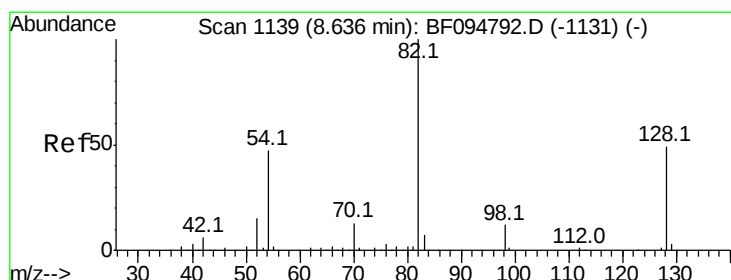
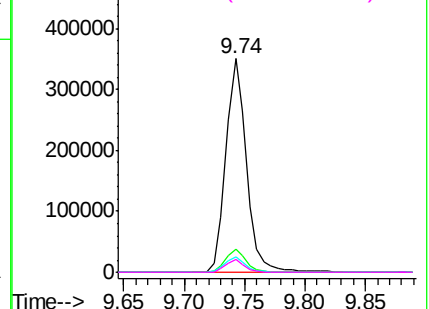


Abundance Ion 136.00 (135.70 to 136.70): E

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: 104.46 ng

RT: 8.62 min Scan# 1137

Delta R.T. -0.01 min

Lab File: BF094849.D

Acq: 3 May 2017 23:13

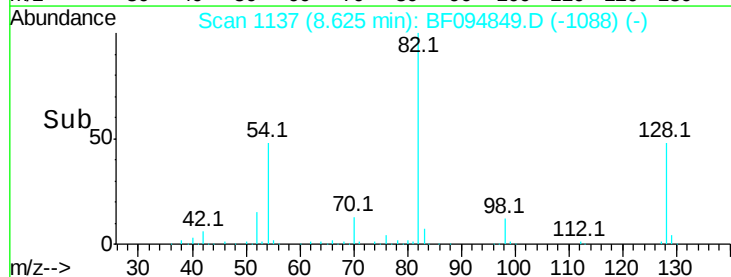
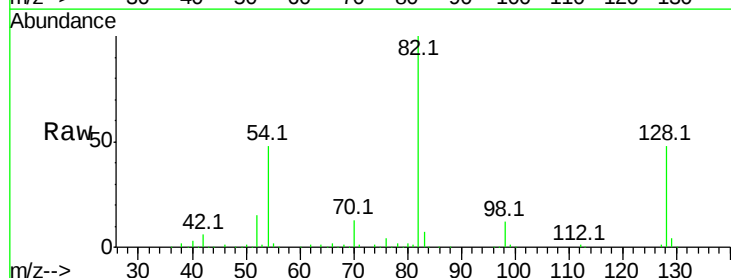
Tgt Ion: 82 Resp: 683373

Ion Ratio Lower Upper

82 100

128 47.7 34.0 51.0

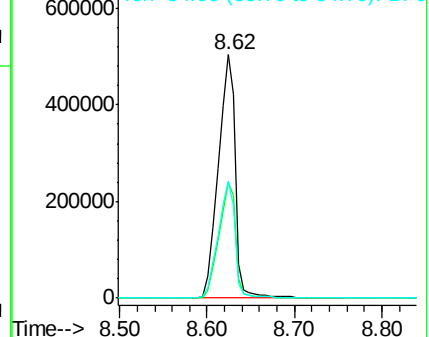
54 47.9 42.2 63.2

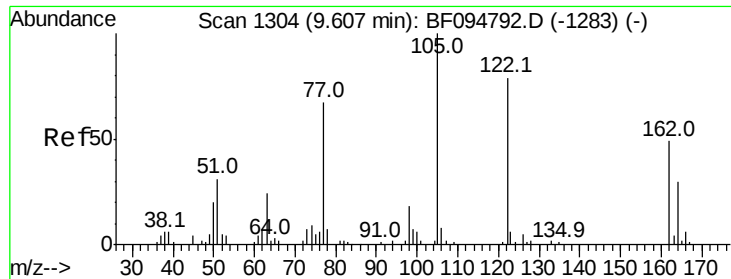


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#32

Benzoic acid

Concen: 7.48 ng

RT: 9.51 min Scan# 1287

Delta R.T. -0.10 min

Lab File: BF094849.D

Acq: 3 May 2017 23:13

Instrument :

BNA\_F

ClientSampleId :

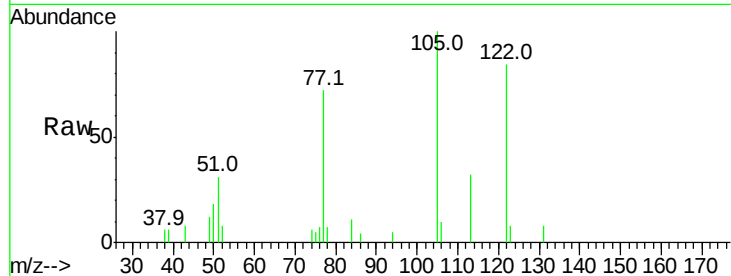
Tot Ion:122 Resp: 10541

Ion Ratio Lower Upper

122 100

105 118.8 103.3 143.3

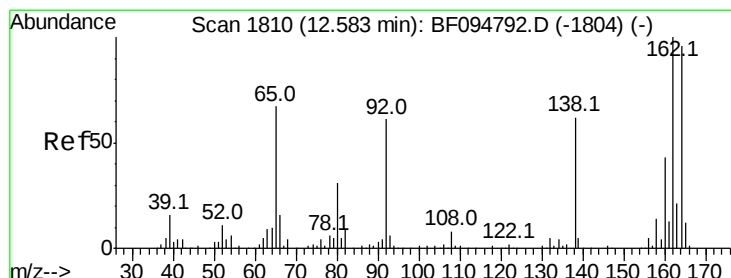
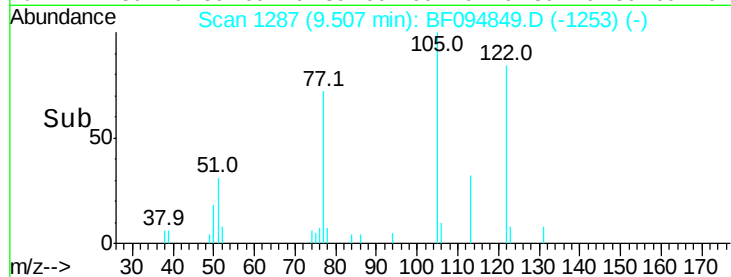
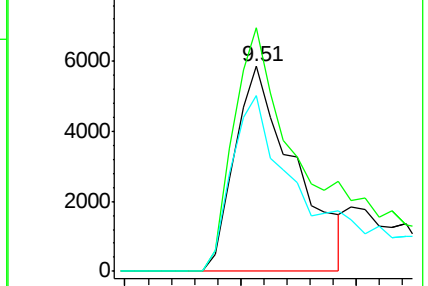
77 85.9 73.7 113.7



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: 12.57 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF094849.D

Acq: 3 May 2017 23:13

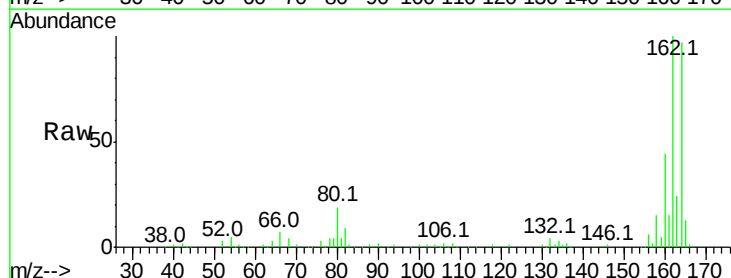
Tgt Ion:164 Resp: 182255

Ion Ratio Lower Upper

164 100

162 103.3 82.6 123.8

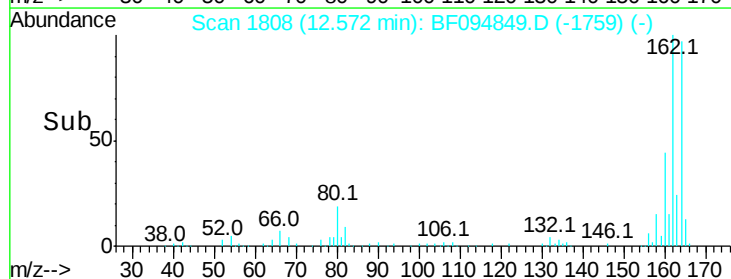
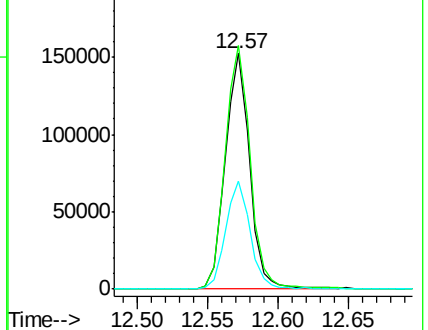
160 45.6 36.2 54.2

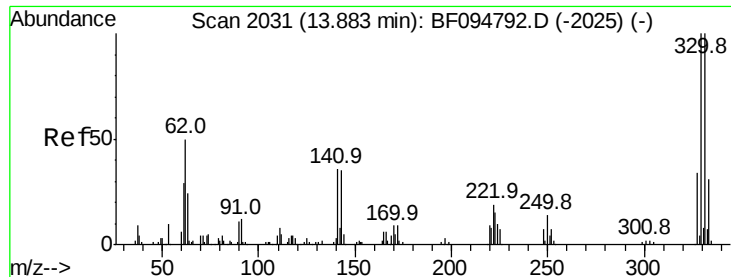


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

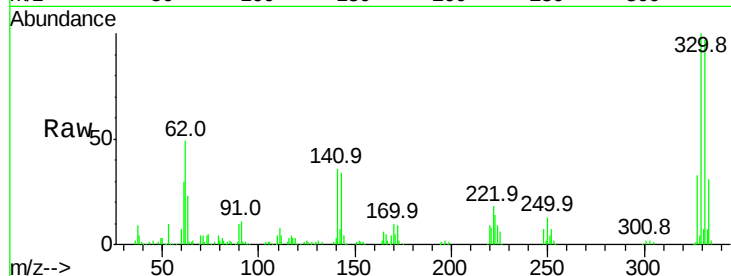




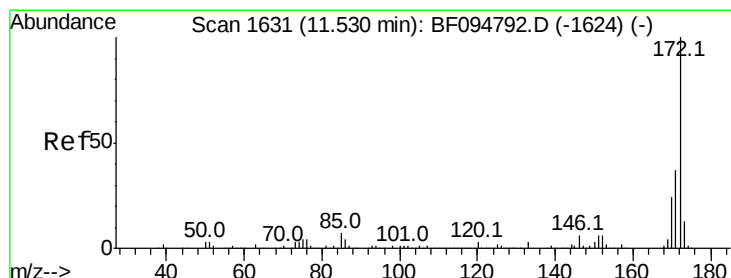
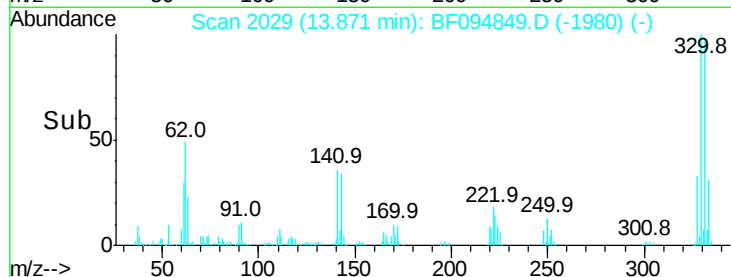
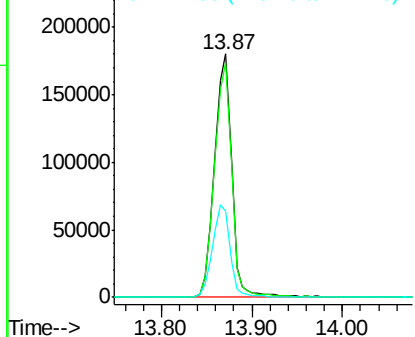
#41  
 2,4,6-Tribromophenol  
 Concen: 159.95 ng  
 RT: 13.87 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF094849.D  
 Acq: 3 May 2017 23:13

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 238744  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 76.6 115.0  
 141 39.3 31.4 47.2

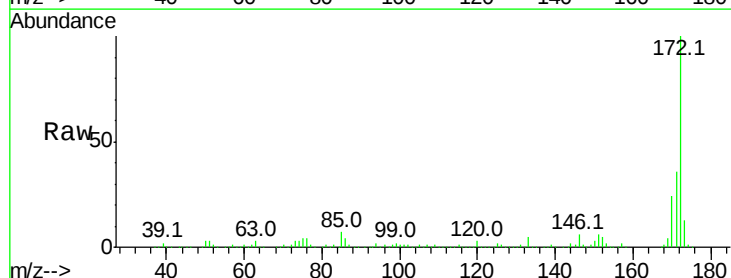


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

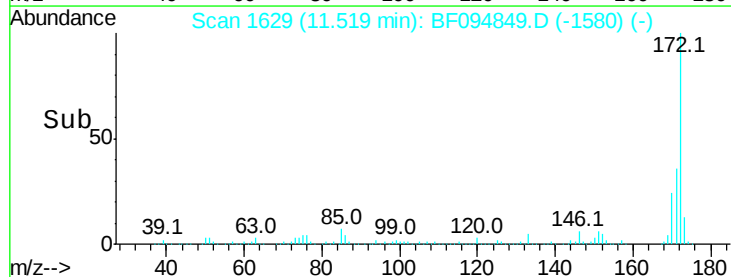
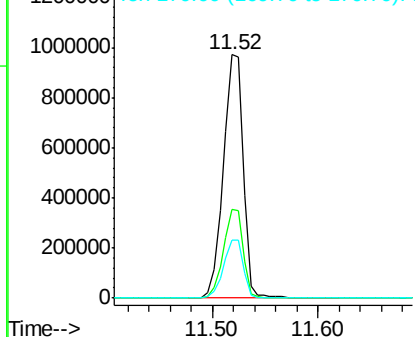


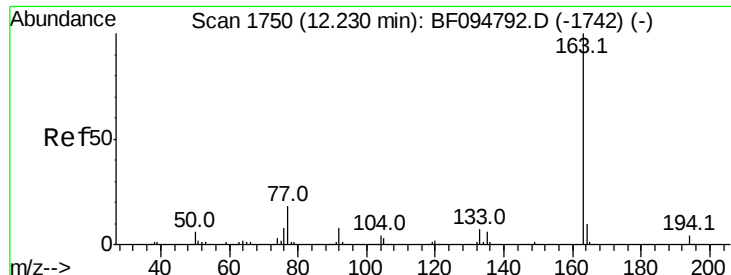
#44  
 2-Fluorobiphenyl  
 Concen: 100.74 ng  
 RT: 11.52 min Scan# 1629  
 Delta R.T. -0.01 min  
 Lab File: BF094849.D  
 Acq: 3 May 2017 23:13

Tgt Ion:172 Resp: 1275616  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.6 44.4  
 170 23.6 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

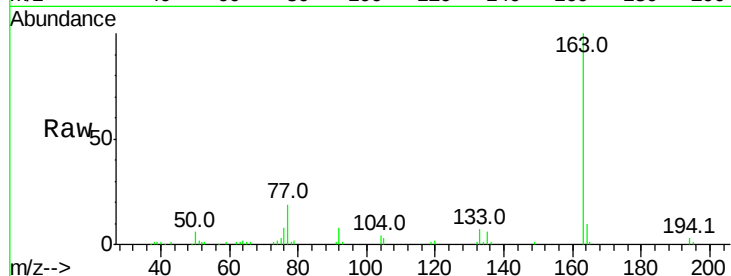




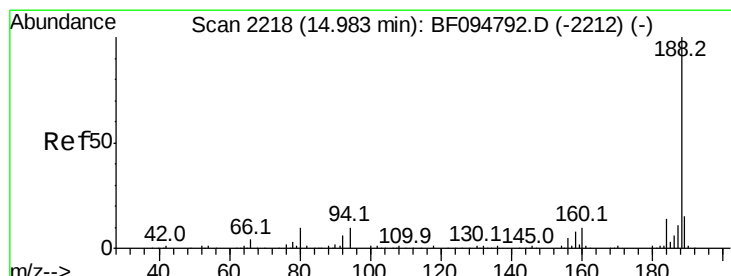
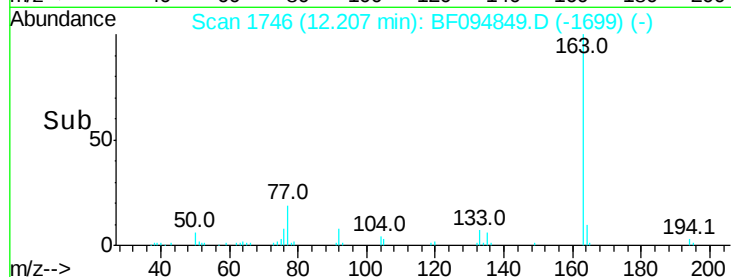
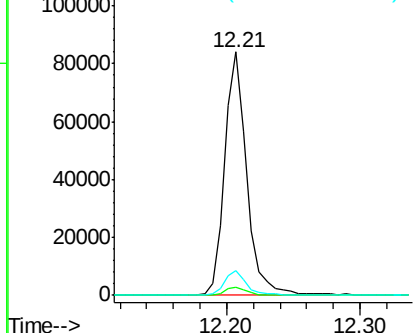
#49  
Dimethylphthalate  
Concen: 6.56 ng  
RT: 12.21 min Scan# 1746  
Delta R.T. -0.02 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:163 Resp: 98133  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.6 4.0  
164 10.0 8.4 12.6

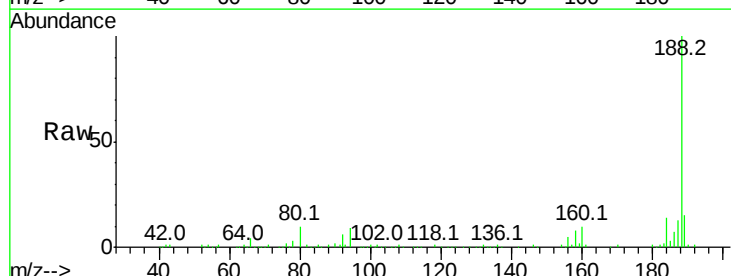


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

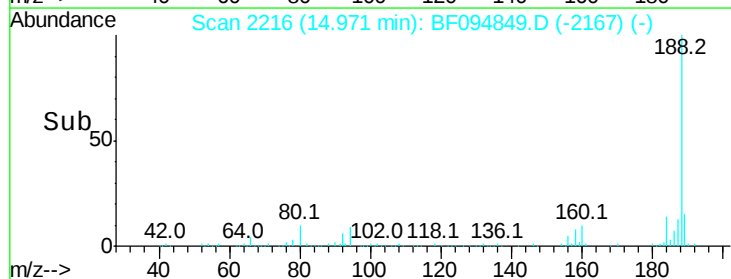
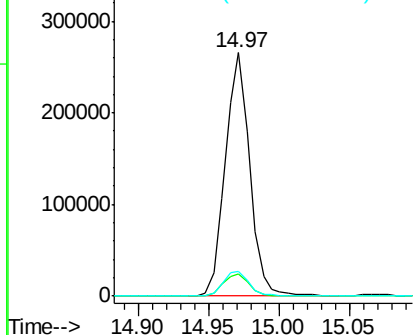


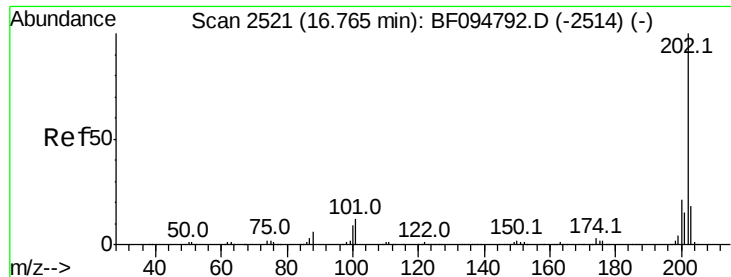
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.97 min Scan# 2216  
Delta R.T. -0.01 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Tgt Ion:188 Resp: 319850  
Ion Ratio Lower Upper  
188 100  
94 9.2 9.4 14.2#  
80 10.3 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

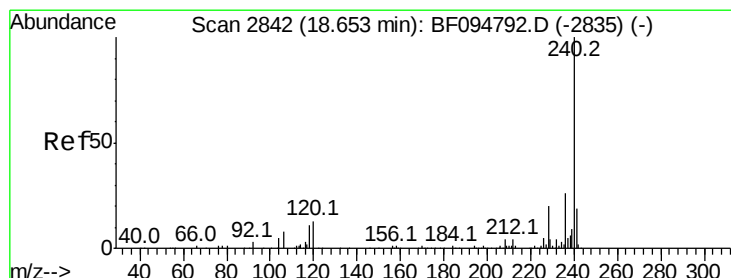
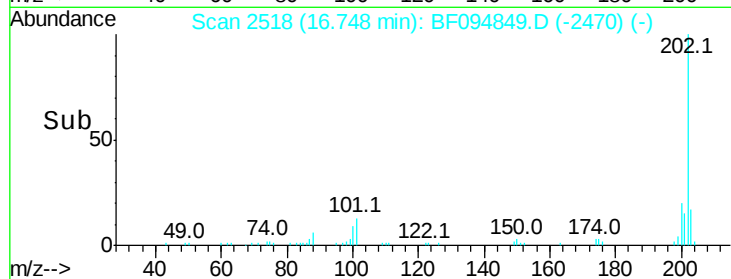
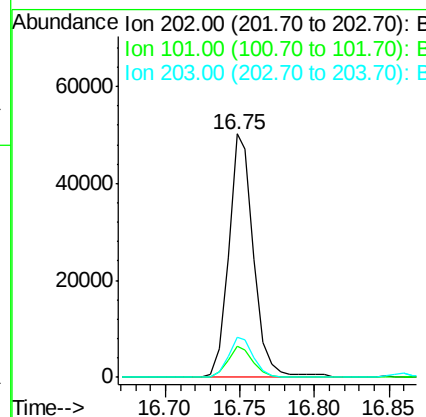
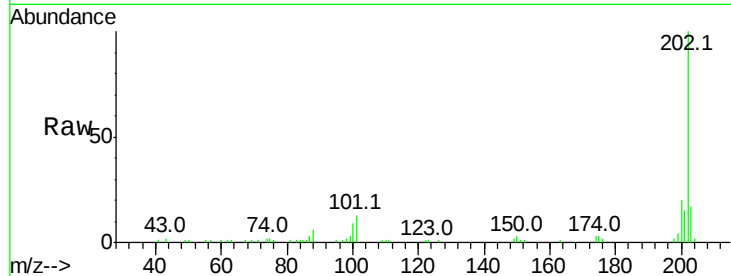




#74  
 Fluoranthene  
 Concen: 3.13 ng  
 RT: 16.75 min Scan# 2518  
 Delta R.T. -0.02 min  
 Lab File: BF094849.D  
 Acq: 3 May 2017 23:13

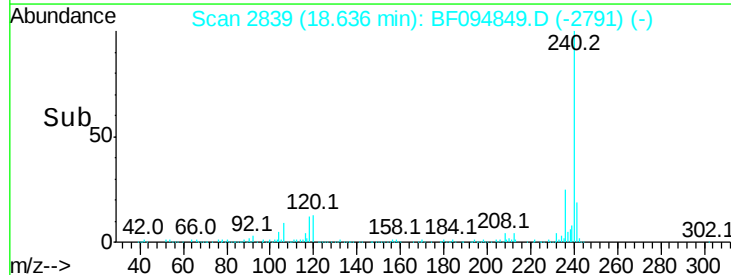
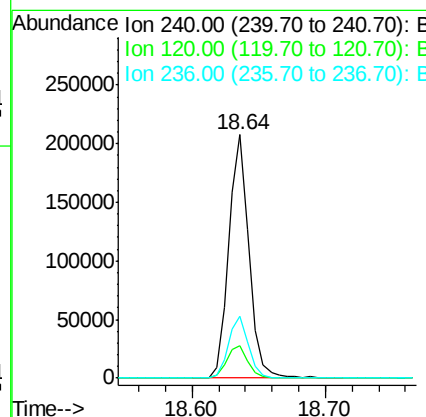
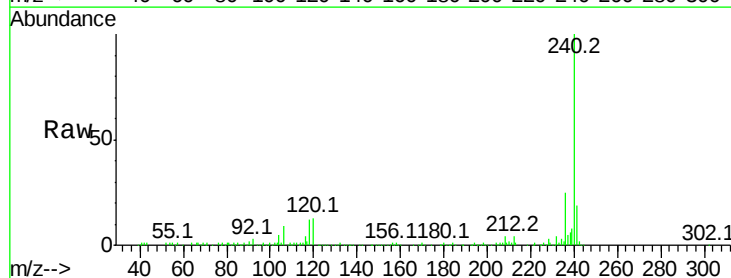
Instrument :  
 BNA\_F  
 ClientSampleId :

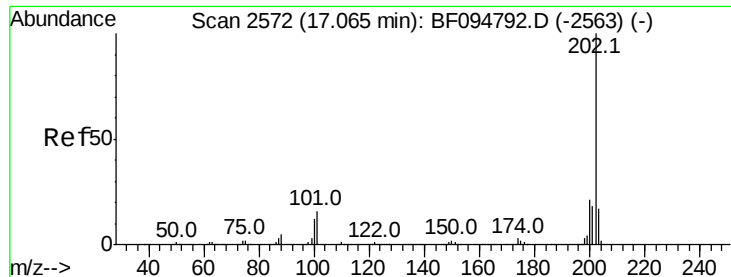
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.6  | 0.0   | 33.2  |
| 203     | 16.7  | 0.0   | 38.1  |



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.64 min Scan# 2839  
 Delta R.T. -0.02 min  
 Lab File: BF094849.D  
 Acq: 3 May 2017 23:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.1  | 5.8   | 8.8#  |
| 236     | 25.2  | 20.5  | 30.7  |

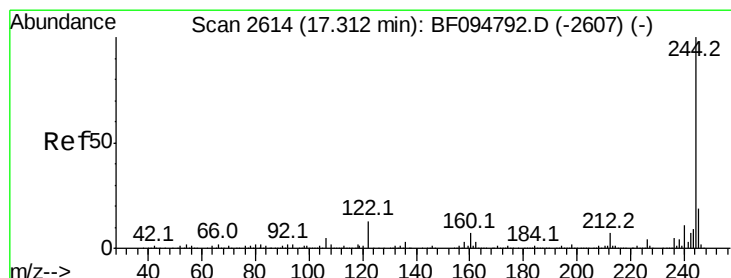
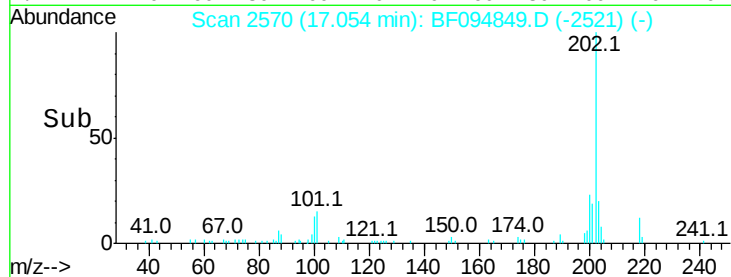
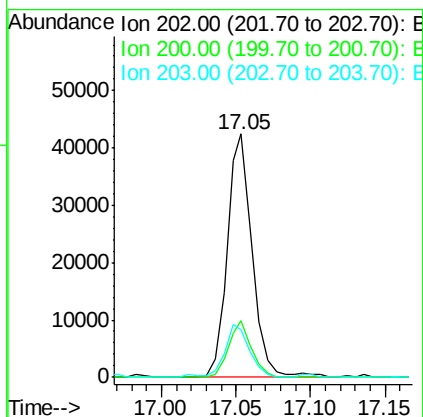
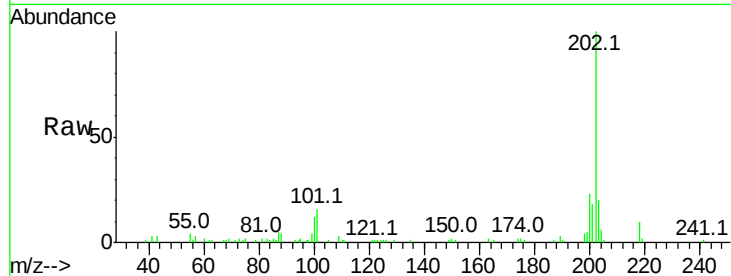




#77  
Pvrene  
Concen: 3.00 ng  
RT: 17.05 min Scan# 2570  
Delta R.T. -0.01 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

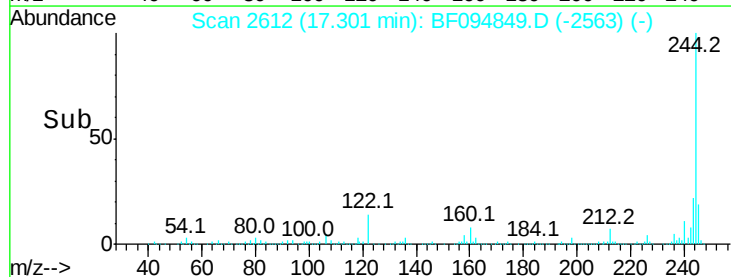
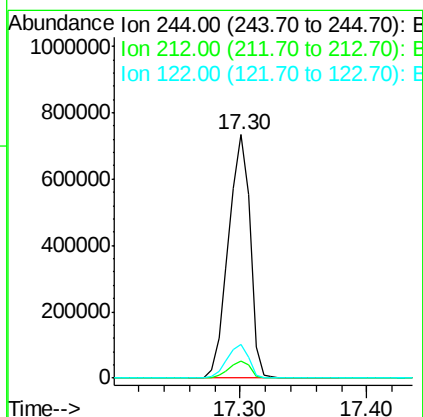
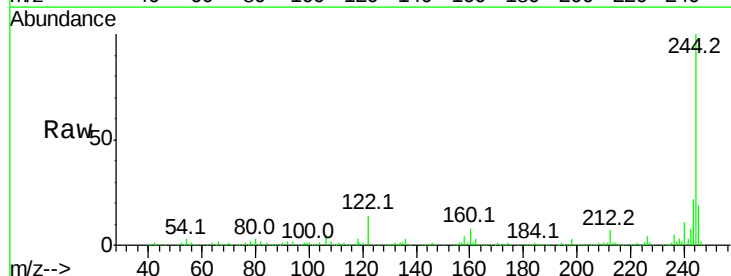
Instrument :  
BNA\_F  
ClientSampled :

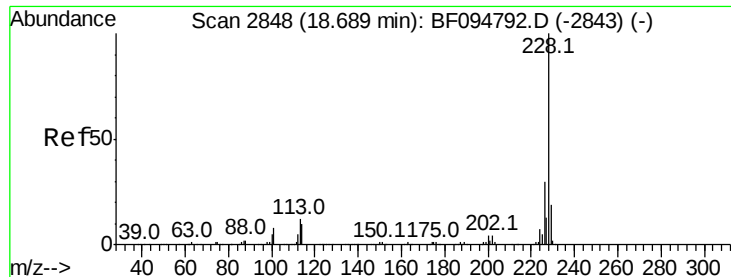
Tot Ion:202 Resp: 49939  
Ion Ratio Lower Upper  
202 100  
200 23.1 17.6 26.4  
203 19.8 14.4 21.6



#78  
Terphenyl-d14  
Concen: 85.72 ng  
RT: 17.30 min Scan# 2612  
Delta R.T. -0.01 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Tgt Ion:244 Resp: 866028  
Ion Ratio Lower Upper  
244 100  
212 6.9 6.0 9.0  
122 13.9 10.3 15.5

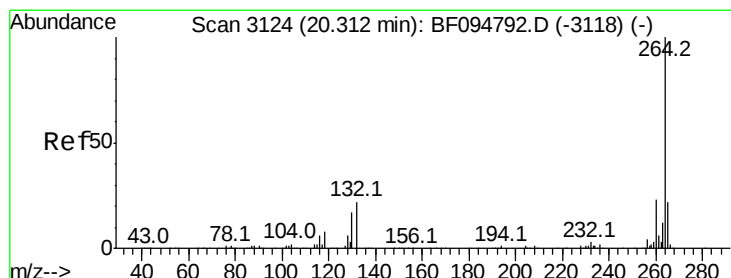
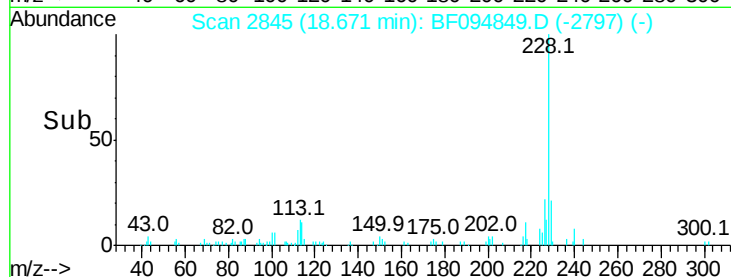
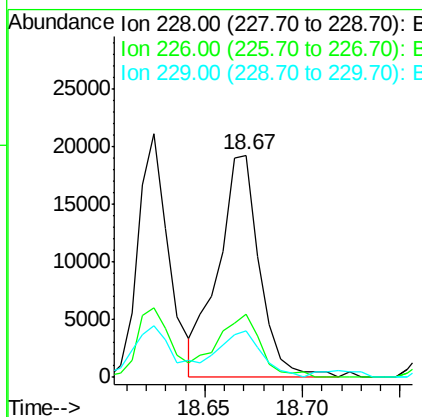
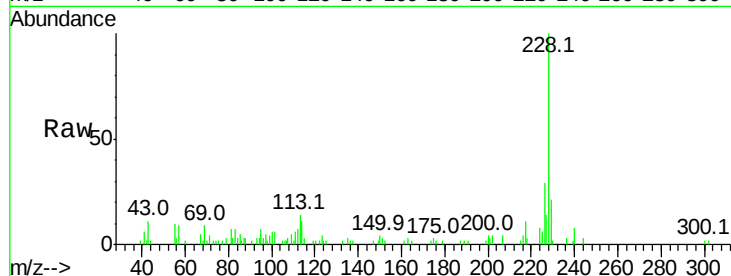




#82  
Chrysene  
Concen: 2.26 ng  
RT: 18.67 min Scan# 2845  
Delta R.T. -0.02 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

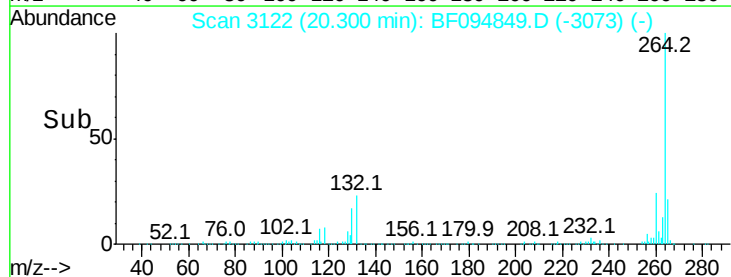
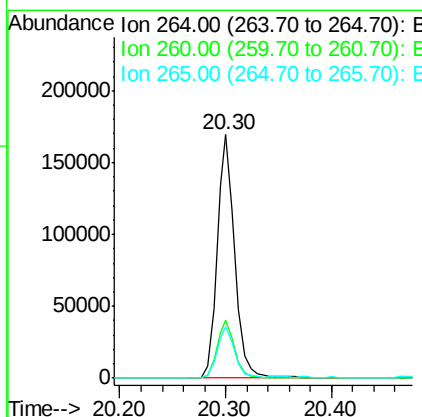
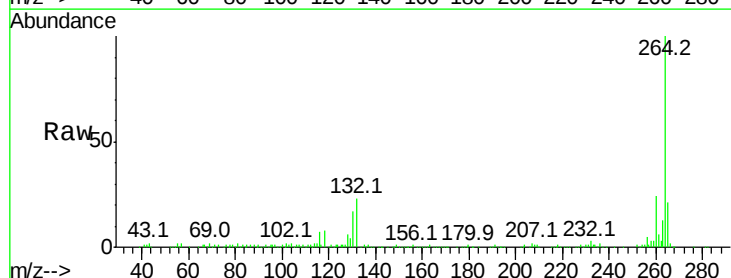
Instrument :  
BNA\_F  
ClientSampled :

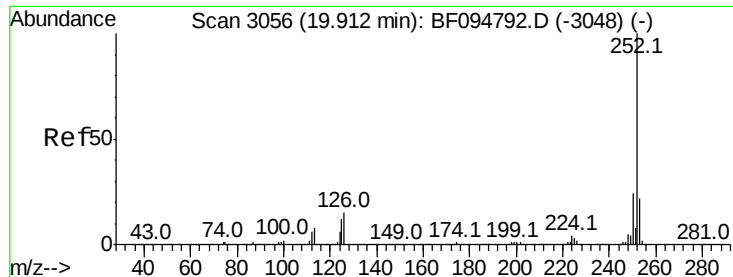
Tot Ion:228 Resp: 28315  
Ion Ratio Lower Upper  
228 100  
226 28.5 24.9 37.3  
229 20.9 15.8 23.6



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 20.30 min Scan# 3122  
Delta R.T. -0.01 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Tgt Ion:264 Resp: 198402  
Ion Ratio Lower Upper  
264 100  
260 23.6 19.5 29.3  
265 21.1 17.2 25.8

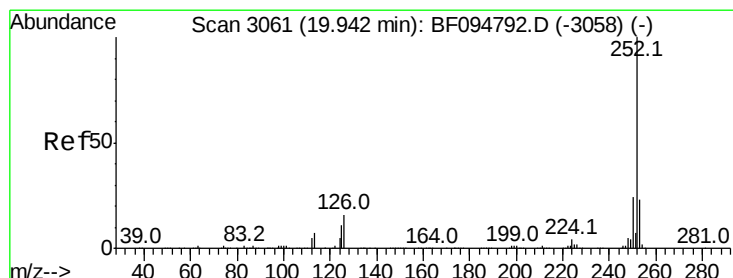
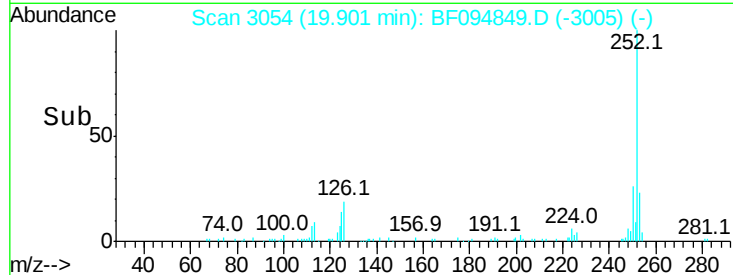
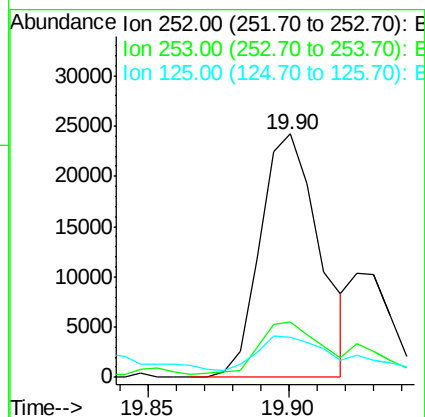
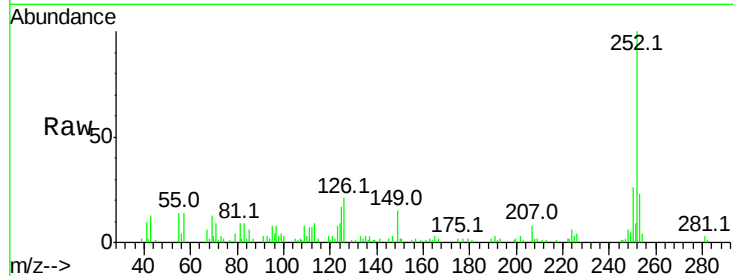




#87  
Benzo(b)fluoranthene  
Concen: 2.87 ng  
RT: 19.90 min Scan# 3054  
Delta R.T. -0.01 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.1  | 27.1  |
| 125     | 16.7  | 9.8   | 14.8  |



#88  
Benzo(k)fluoranthene  
Concen: 2.97 ng  
RT: 19.90 min Scan# 3054  
Delta R.T. -0.04 min  
Lab File: BF094849.D  
Acq: 3 May 2017 23:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.4  | 27.6  |
| 125     | 16.7  | 13.1  | 19.7  |

