

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\  
 Data File : BF095139.D  
 Acq On : 15 May 2017 22:28  
 Operator : SJ/MA  
 Sample : I3140-13  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 16 06:00:21 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

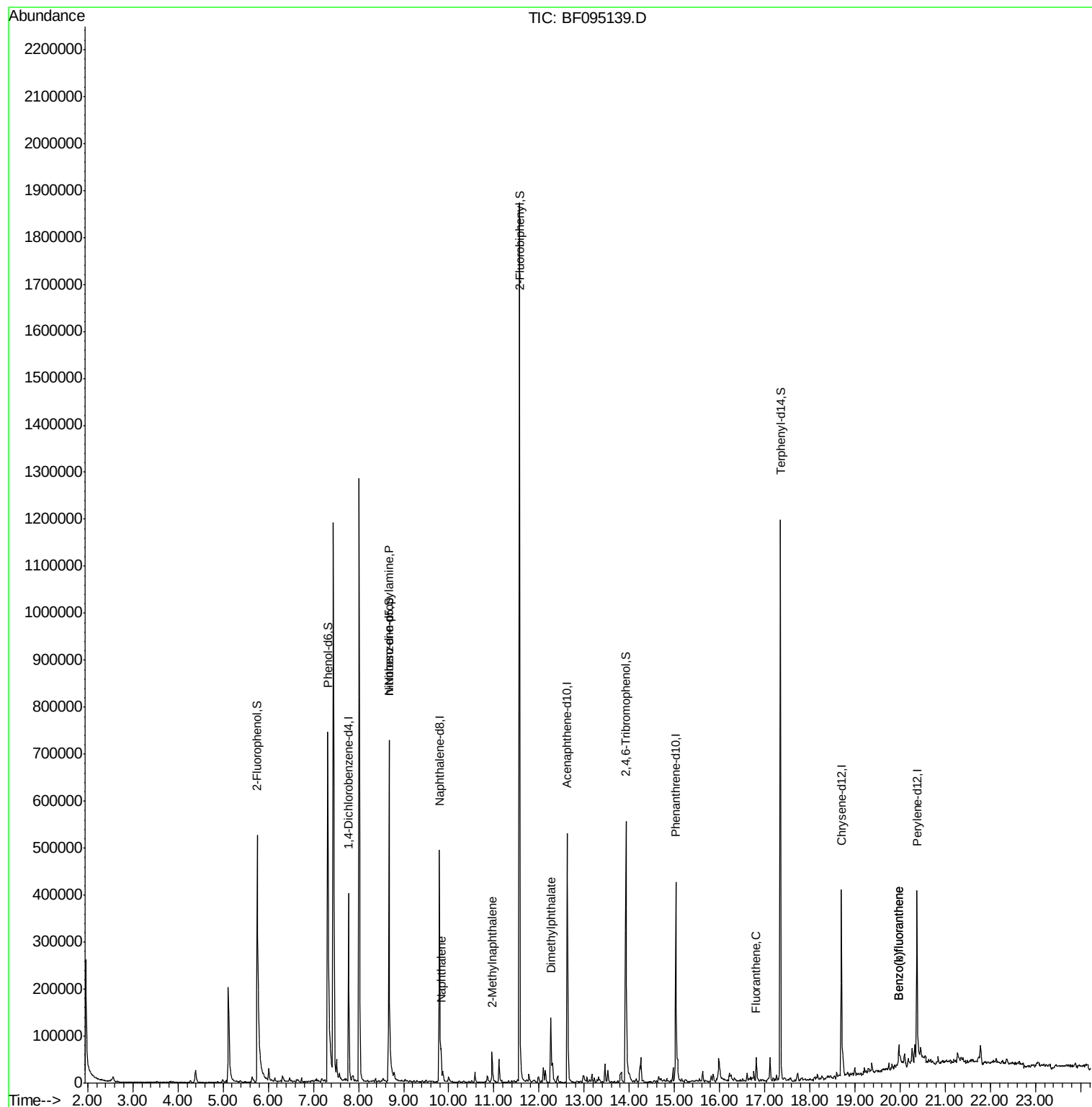
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.78  | 152  | 91335    | 20.00 | ng    | 0.05     |
| 21) Naphthalene-d8             | 9.80  | 136  | 354906   | 20.00 | ng    | 0.04     |
| 38) Acenaphthene-d10           | 12.62 | 164  | 154129   | 20.00 | ng    | 0.04     |
| 63) Phenanthrene-d10           | 15.03 | 188  | 233757   | 20.00 | ng    | 0.05     |
| 75) Chrysene-d12               | 18.70 | 240  | 185652   | 20.00 | ng    | 0.05     |
| 86) Perylene-d12               | 20.37 | 264  | 169745   | 20.00 | ng    | 0.06     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.75  | 112  | 400703   | 73.14 | ng    | 0.08     |
| 7) Phenol-d6                   | 7.32  | 99   | 539885   | 82.14 | ng    | 0.04     |
| 23) Nitrobenzene-d5            | 8.68  | 82   | 394817   | 70.15 | ng    | 0.04     |
| 41) 2,4,6-Tribromophenol       | 13.92 | 330  | 105954   | 83.94 | ng    | 0.04     |
| 44) 2-Fluorobiphenyl           | 11.57 | 172  | 810725   | 75.71 | ng    | 0.04     |
| 78) Terphenyl-d14              | 17.35 | 244  | 463520   | 54.99 | ng    | 0.04     |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 8.67  | 70   | 49007    | 11.02 | ng    | # 75     |
| 31) Naphthalene                | 9.83  | 128  | 40128    | 2.25  | ng    | # 96     |
| 37) 2-Methylnaphthalene        | 10.96 | 142  | 30685    | 2.62  | ng    | 93       |
| 49) Dimethylphthalate          | 12.26 | 163  | 101812   | 8.05  | ng    | 99       |
| 74) Fluoranthene               | 16.81 | 202  | 29163    | 2.12  | ng    | 94       |
| 87) Benzo(b)fluoranthene       | 19.98 | 252  | 31595    | 3.01  | ng    | 96       |
| 88) Benzo(k)fluoranthene       | 19.98 | 252  | 31595    | 3.12  | ng    | 97       |

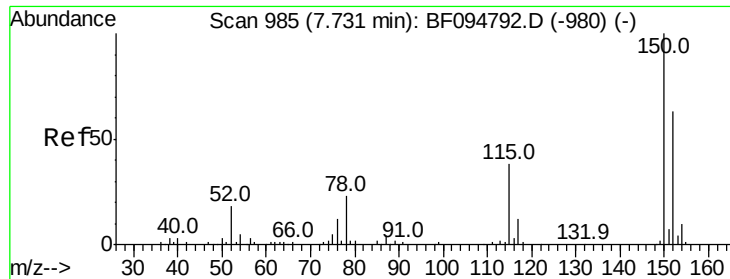
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\  
Data File : BF095139.D  
Acq On : 15 May 2017 22:28  
Operator : SJ/MA  
Sample : I3140-13  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: May 16 06:00:21 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.78 min Scan# 993

Delta R.T. 0.05 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

Instrument :

BNA\_F

ClientSampled :

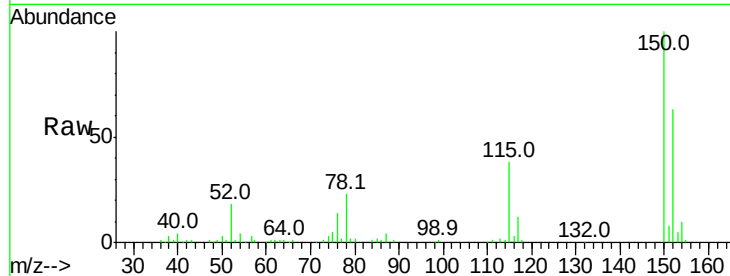
Tot Ion:152 Resp: 91335

Ion Ratio Lower Upper

152 100

150 158.6 126.2 189.2

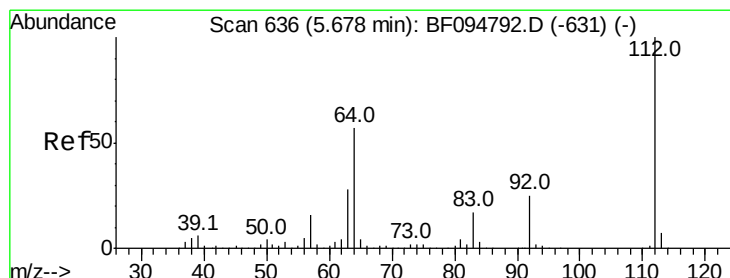
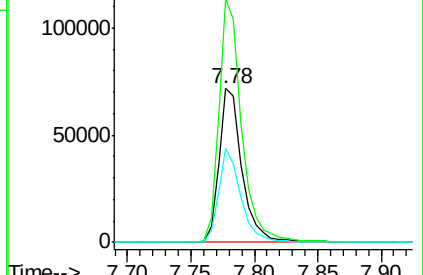
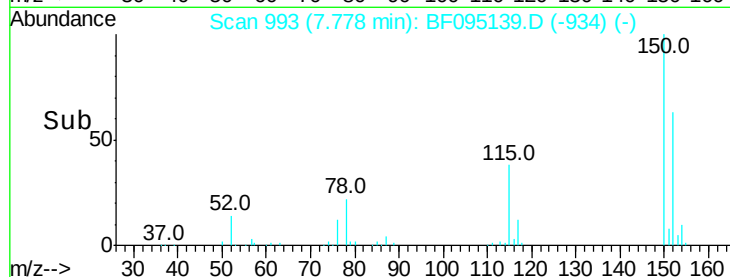
115 61.0 52.2 78.2



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: 73.14 ng

RT: 5.75 min Scan# 649

Delta R.T. 0.08 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

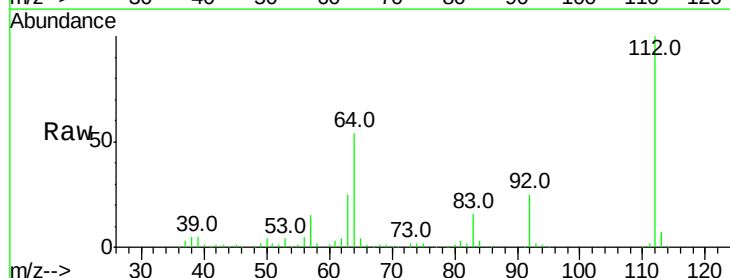
Tgt Ion:112 Resp: 400703

Ion Ratio Lower Upper

112 100

64 53.8 46.0 69.0

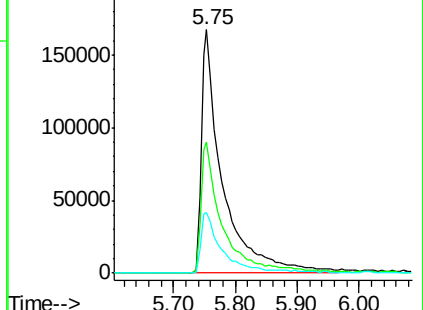
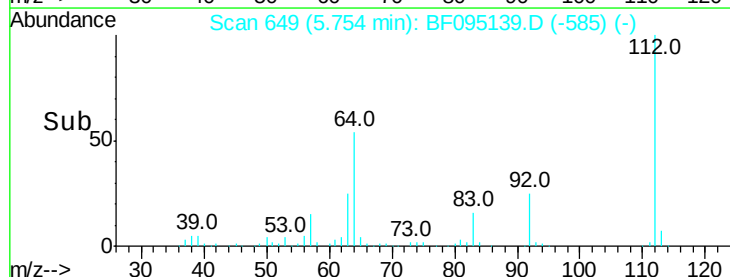
63 24.9 23.4 35.0

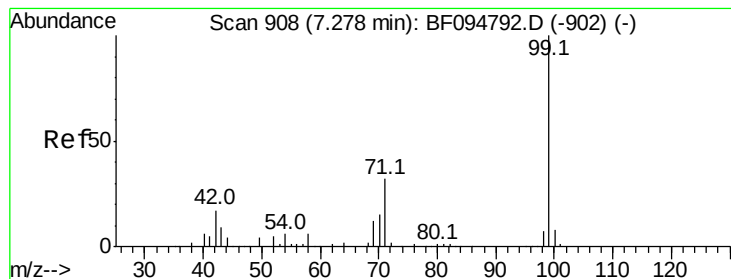


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 82.14 ng

RT: 7.32 min Scan# 915

Delta R.T. 0.04 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

Instrument :

BNA\_F

ClientSampleId :

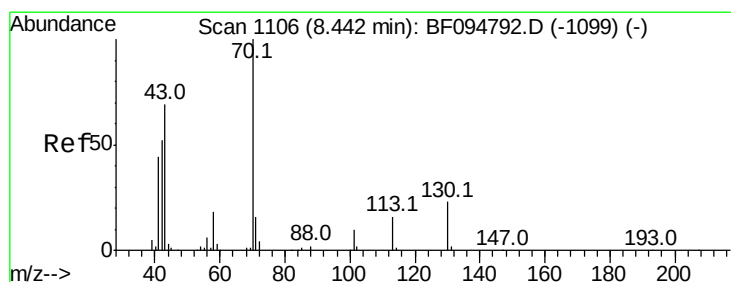
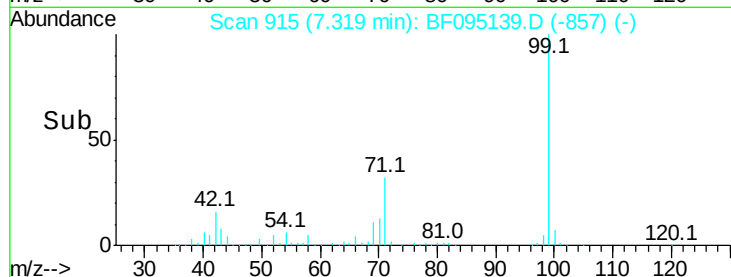
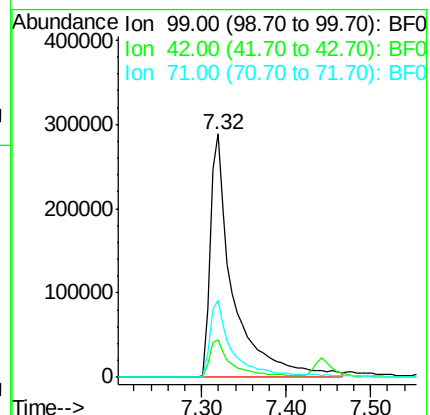
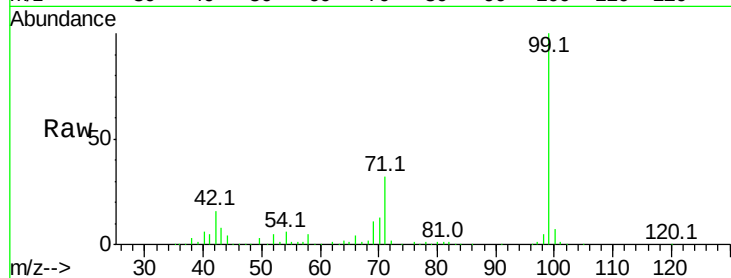
Tot Ion: 99 Resp: 539885

Ion Ratio Lower Upper

99 100

42 15.6 13.5 20.3

71 31.7 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 11.02 ng

RT: 8.67 min Scan# 1145

Delta R.T. 0.23 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

Tgt Ion: 70 Resp: 49007

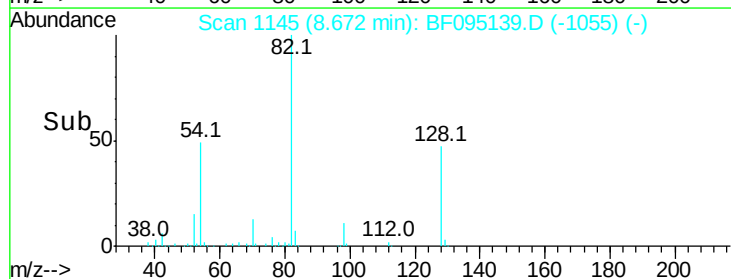
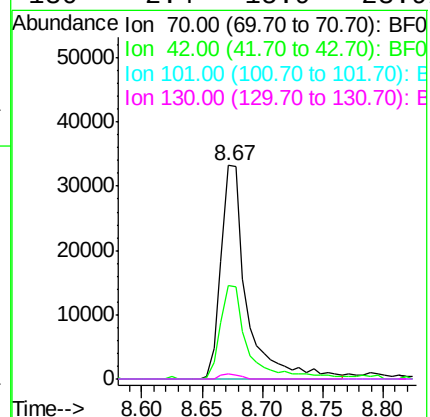
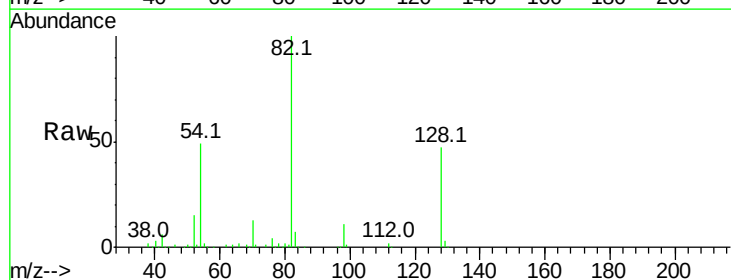
Ion Ratio Lower Upper

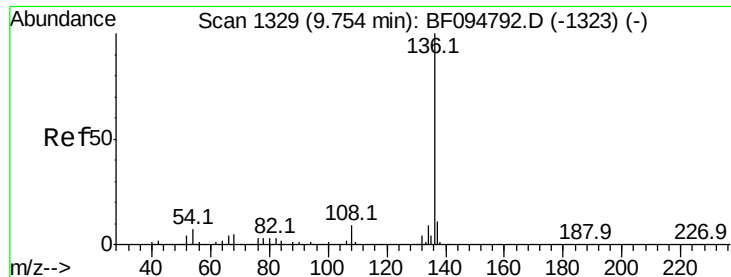
70 100

42 43.7 47.2 70.8#

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#

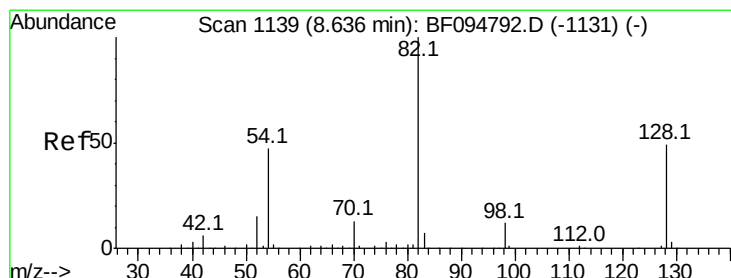
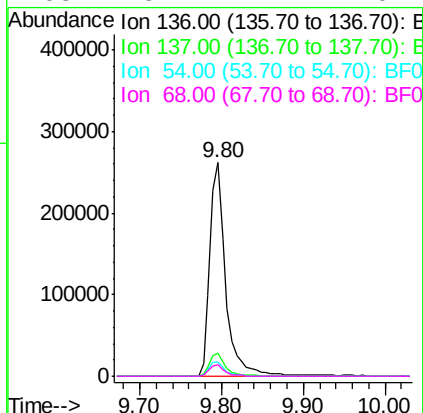
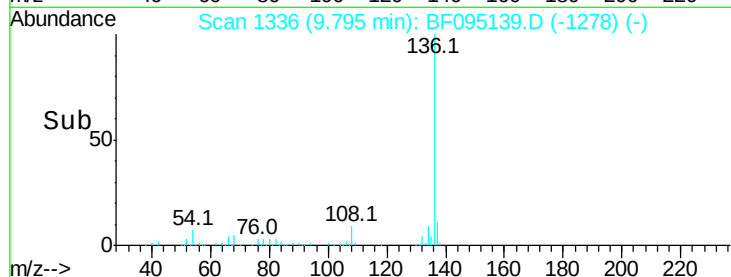
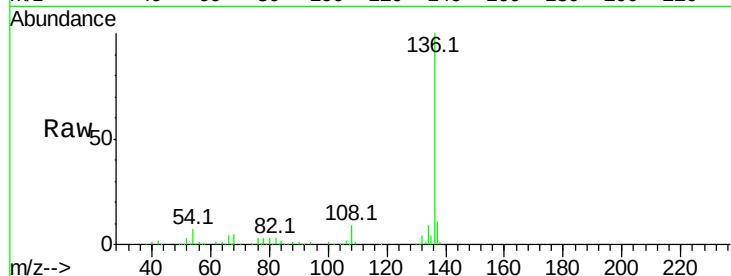




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.80 min Scan# 1336  
Delta R.T. 0.04 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

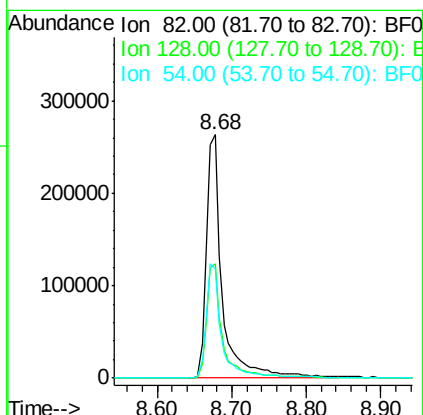
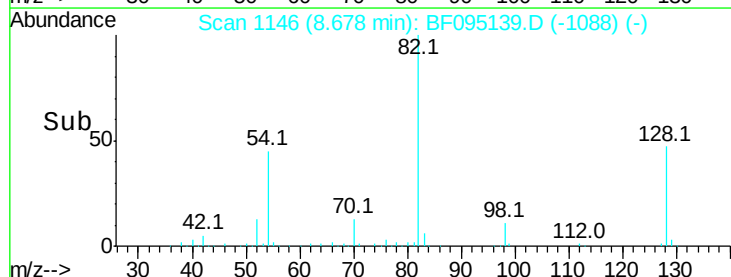
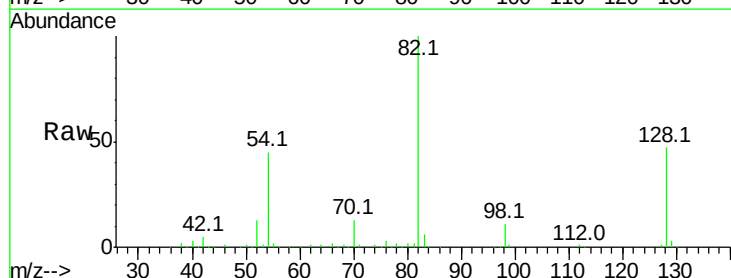
Instrument :  
BNA\_F  
ClientSampleId :

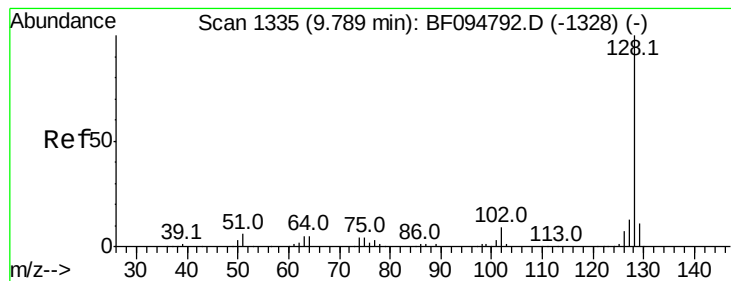
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 354906   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.7  | 8.5 12.7 |
| 54          | 6.5   | 4.9 7.3  |
| 68          | 5.2   | 4.1 6.1  |



#23  
Nitrobenzene-d5  
Concen: 70.15 ng  
RT: 8.68 min Scan# 1146  
Delta R.T. 0.04 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 394817    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.0  | 34.0 51.0 |
| 54          | 44.8  | 42.2 63.2 |





#31

Naphthalene

Concen: 2.25 ng

RT: 9.83 min Scan# 1342

Delta R.T. 0.04 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

Instrument :

BNA\_F

ClientSampleId :

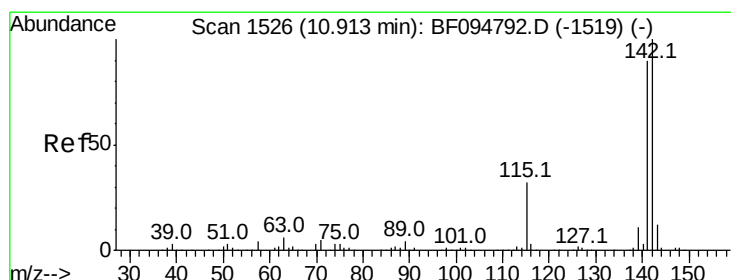
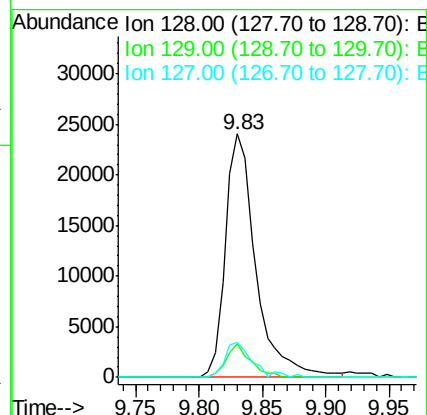
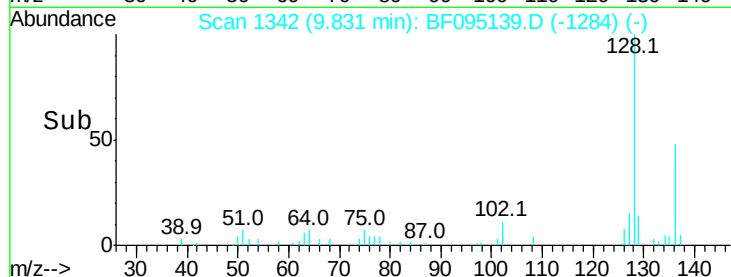
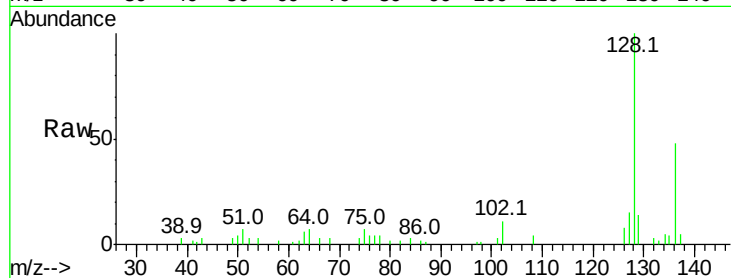
Tot Ion:128 Resp: 40128

Ion Ratio Lower Upper

128 100

129 13.6 9.0 13.6#

127 14.6 10.8 16.2



#37

2-Methylnaphthalene

Concen: 2.62 ng

RT: 10.96 min Scan# 1534

Delta R.T. 0.05 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

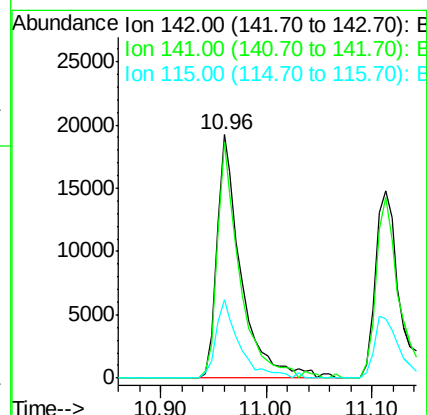
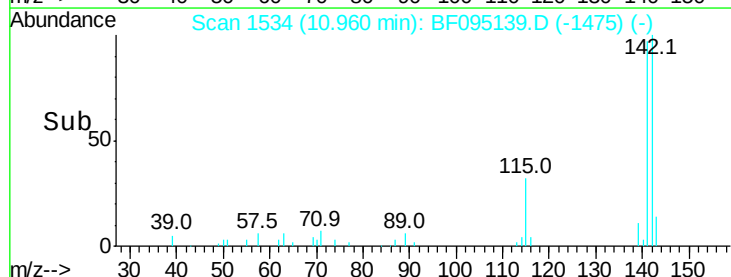
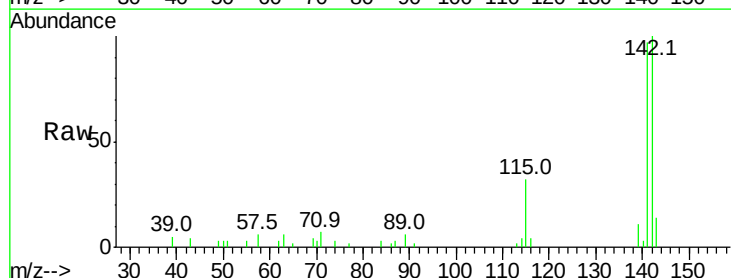
Tgt Ion:142 Resp: 30685

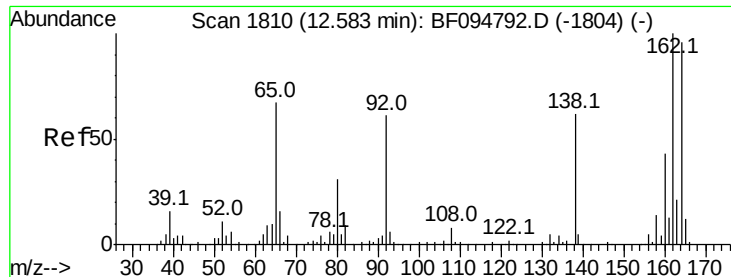
Ion Ratio Lower Upper

142 100

141 96.7 71.3 106.9

115 32.4 27.1 40.7





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.62 min Scan# 1817

Delta R.T. 0.04 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

Instrument :

BNA\_F

ClientSampleId :

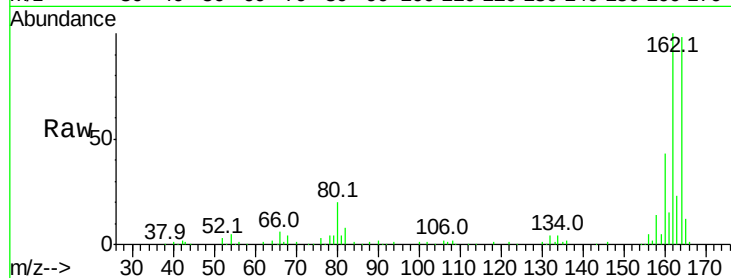
Tot Ion:164 Resp: 154129

Ion Ratio Lower Upper

164 100

162 102.2 82.6 123.8

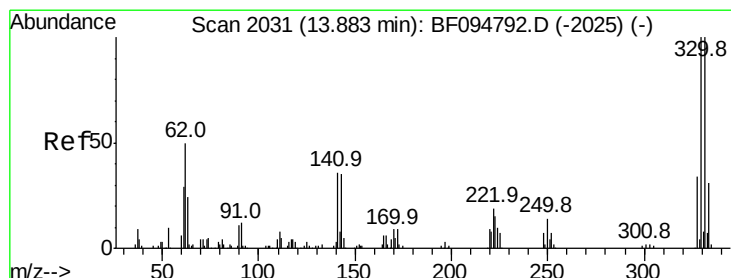
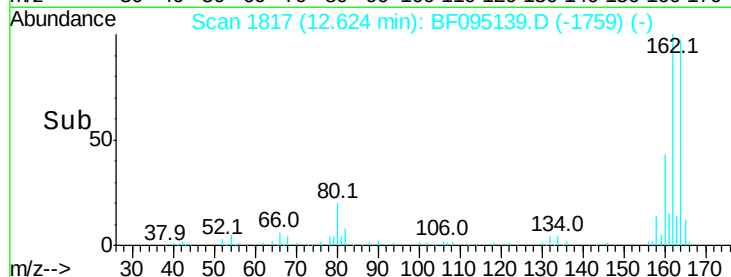
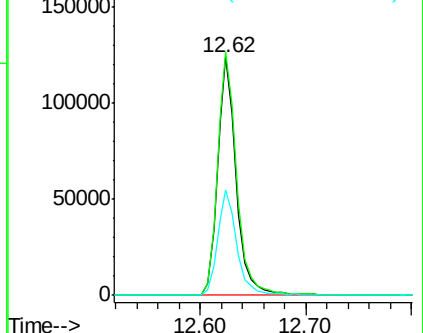
160 44.3 36.2 54.2



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: 83.94 ng

RT: 13.92 min Scan# 2038

Delta R.T. 0.04 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

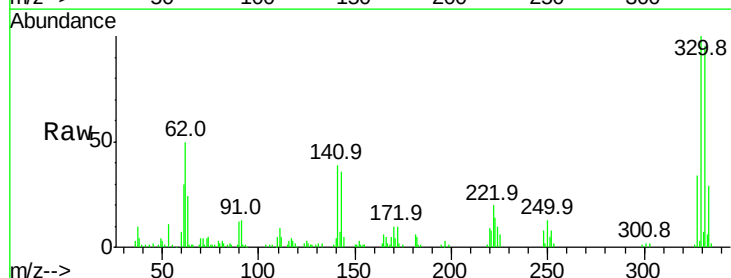
Tgt Ion:330 Resp: 105954

Ion Ratio Lower Upper

330 100

332 95.9 76.6 115.0

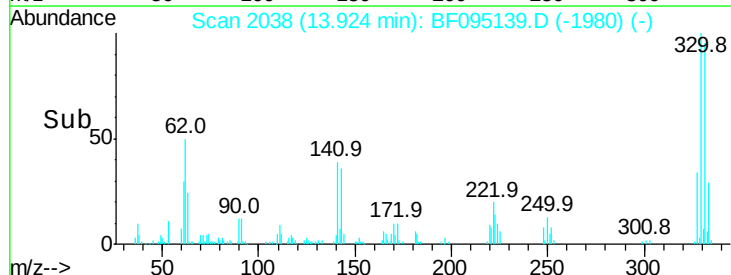
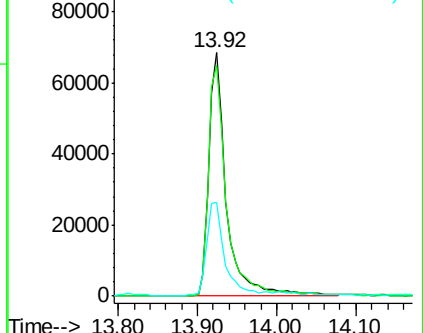
141 39.4 31.4 47.2

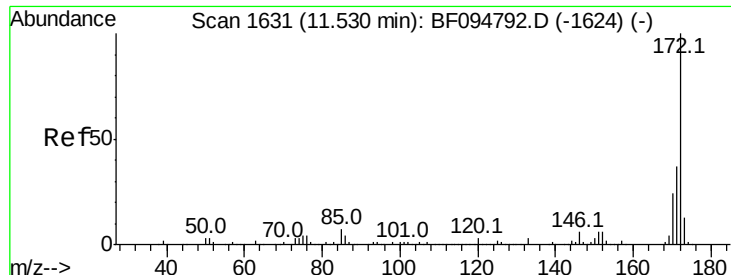


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

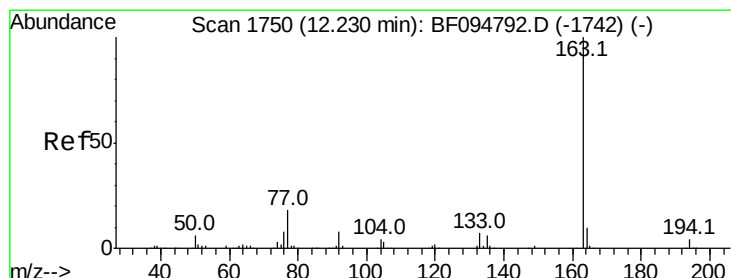
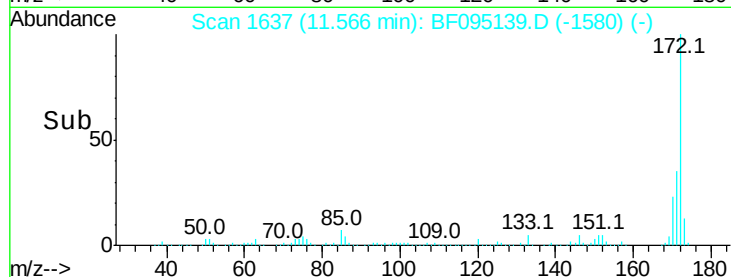
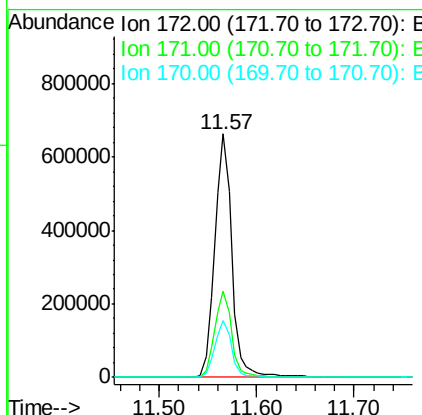
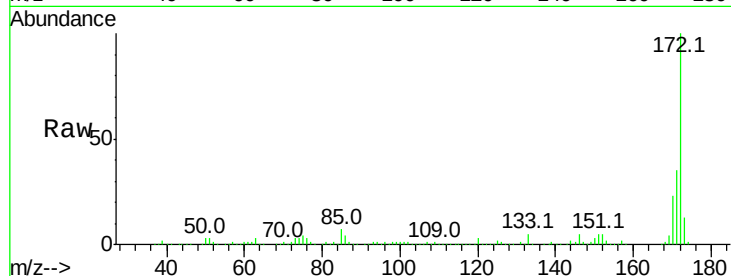




#44  
2-Fluorobiphenyl  
Concen: 75.71 ng  
RT: 11.57 min Scan# 1637  
Delta R.T. 0.04 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

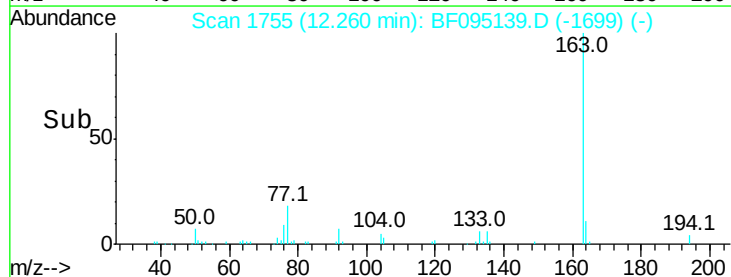
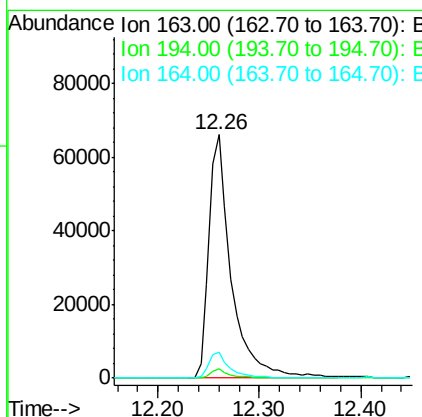
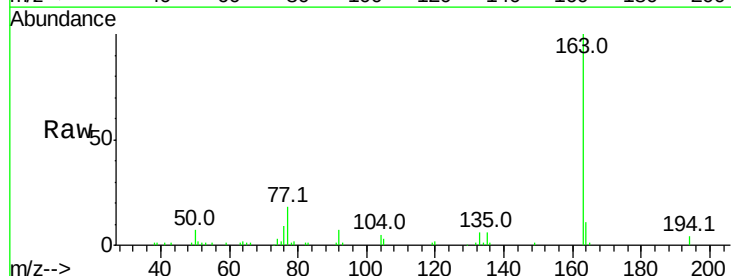
Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 29.6  | 44.4  |
| 170     | 23.2  | 19.8  | 29.8  |

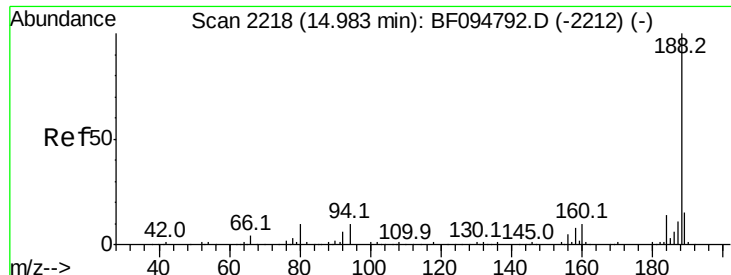


#49  
Dimethylphthalate  
Concen: 8.05 ng  
RT: 12.26 min Scan# 1755  
Delta R.T. 0.03 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.7   | 2.6   | 4.0   |
| 164     | 10.7  | 8.4   | 12.6  |







#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 15.03 min Scan# 2226

Delta R.T. 0.05 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

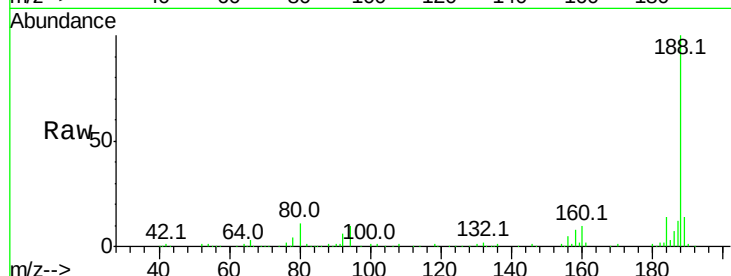
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:188 Resp: 233757

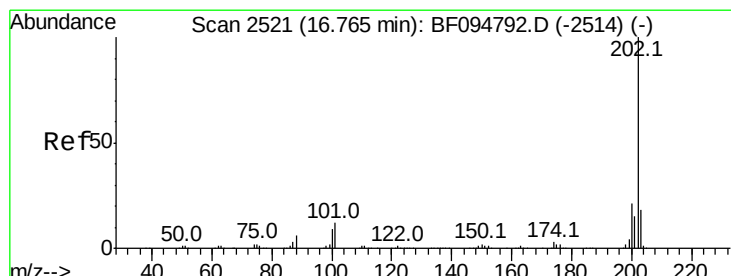
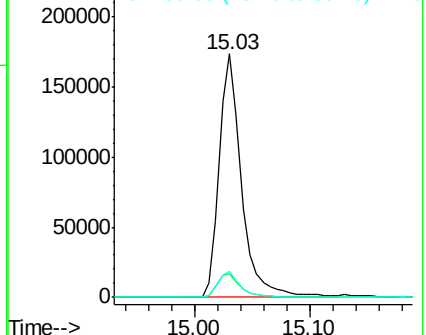
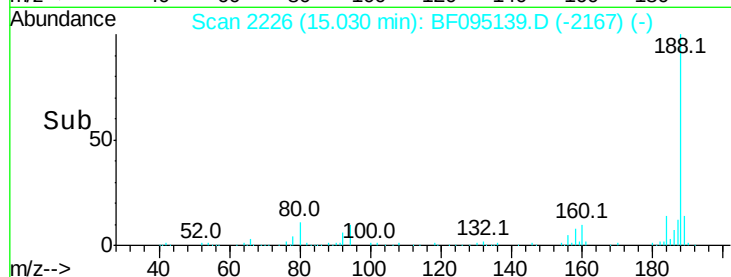
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 9.9   | 9.4   | 14.2  |
| 80  | 10.6  | 10.2  | 15.2  |



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: 2.12 ng

RT: 16.81 min Scan# 2529

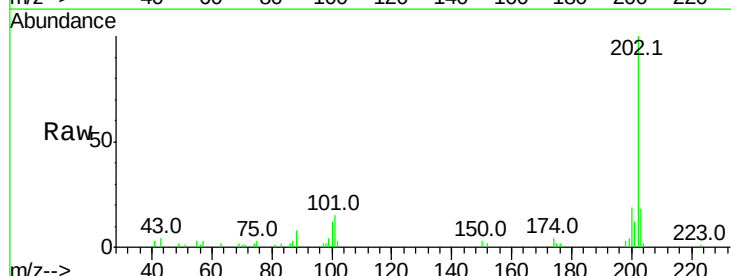
Delta R.T. 0.05 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

Tgt Ion:202 Resp: 29163

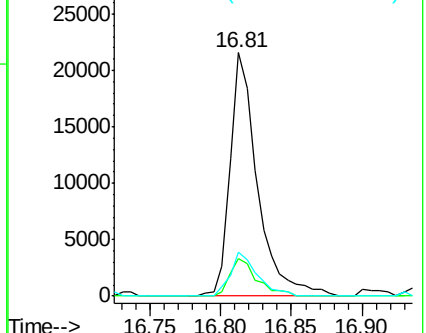
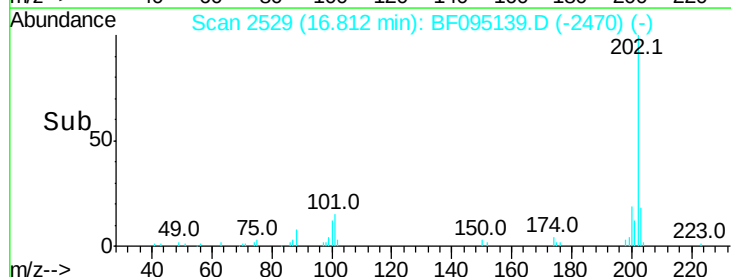
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 18.3  | 0.0   | 33.2  |
| 203 | 17.8  | 0.0   | 38.1  |

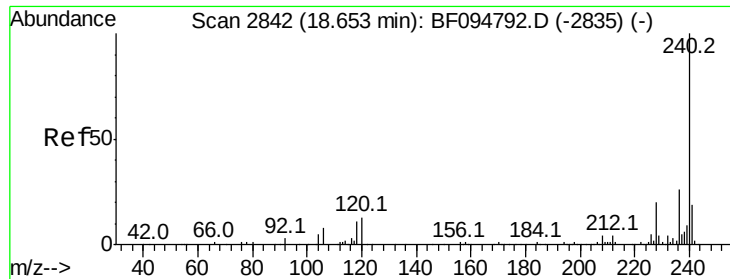


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

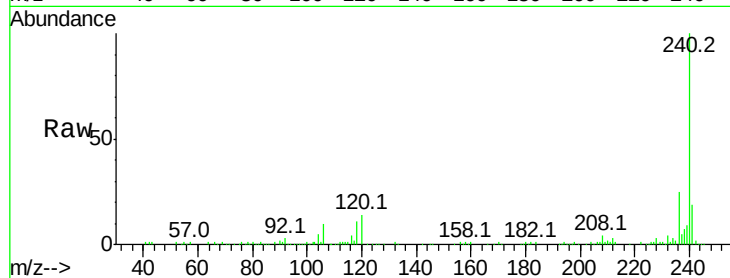




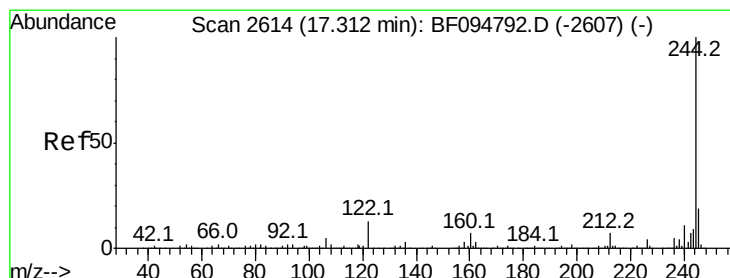
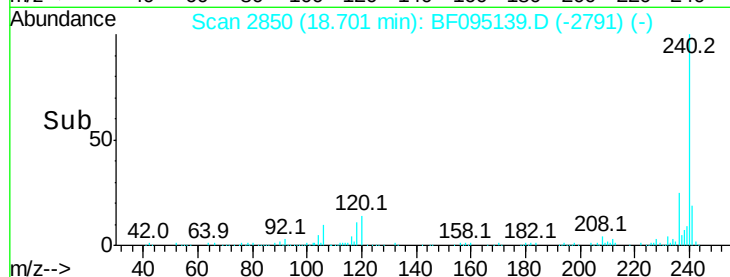
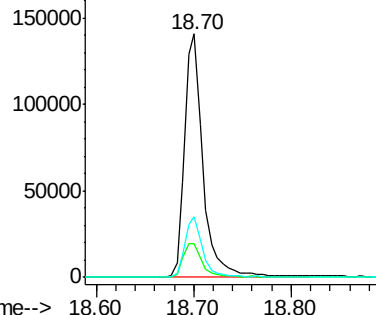
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.70 min Scan# 2850  
Delta R.T. 0.05 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:240 Resp: 185652  
Ion Ratio Lower Upper  
240 100  
120 14.0 5.8 8.8#  
236 24.9 20.5 30.7

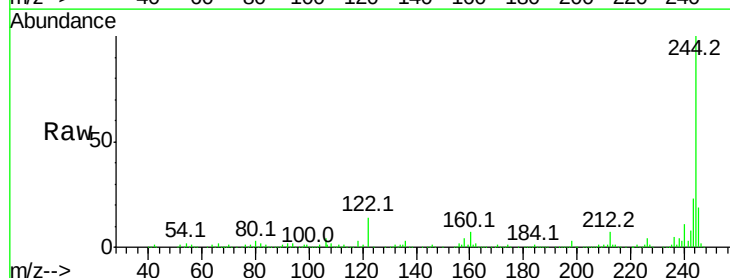


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

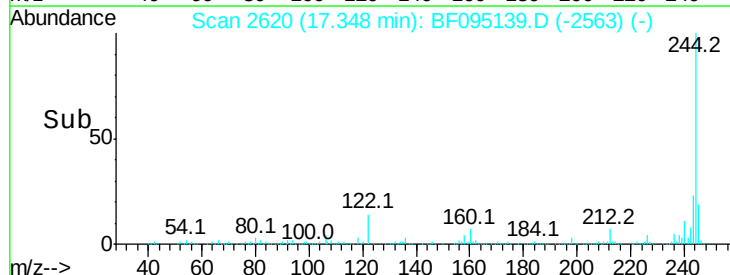
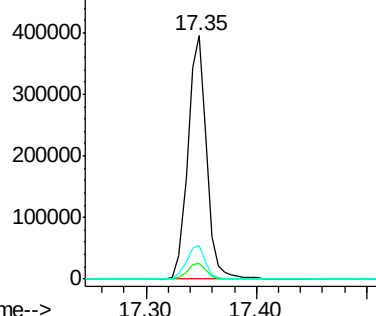


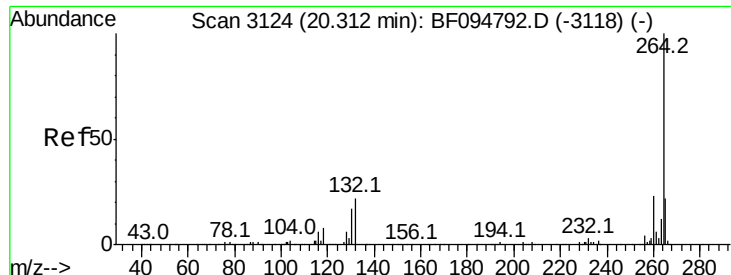
#78  
Terphenyl-d14  
Concen: 54.99 ng  
RT: 17.35 min Scan# 2620  
Delta R.T. 0.04 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

Tgt Ion:244 Resp: 463520  
Ion Ratio Lower Upper  
244 100  
212 6.5 6.0 9.0  
122 13.7 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E

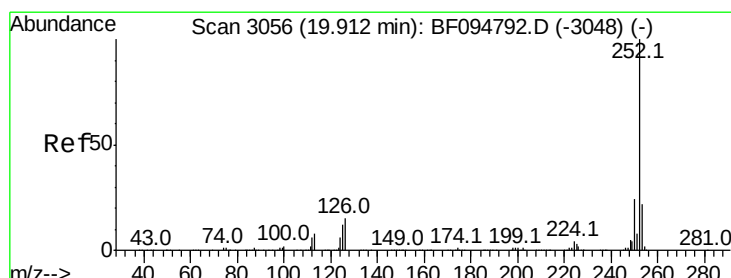
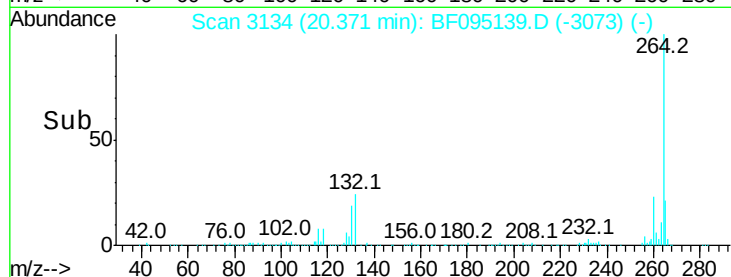
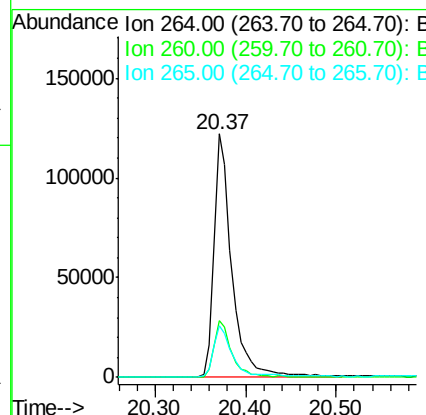
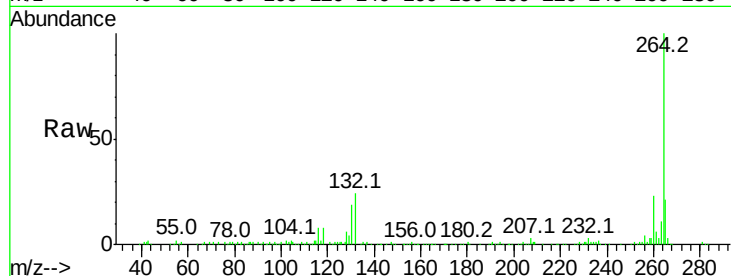




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.37 min Scan# 3134  
Delta R.T. 0.06 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

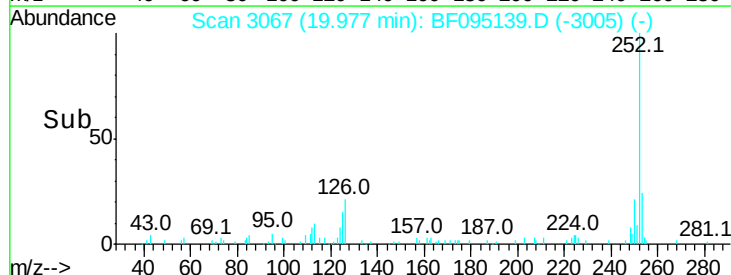
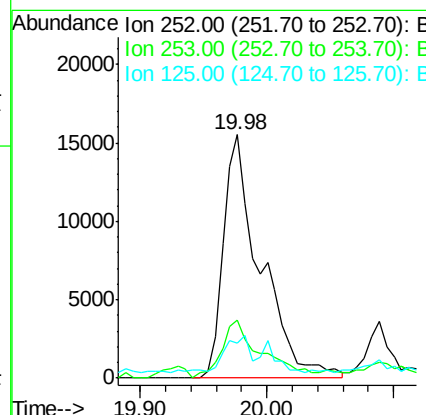
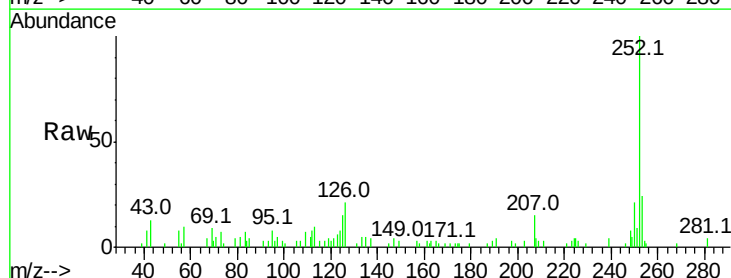
Instrument :  
BNA\_F  
ClientSampleId :

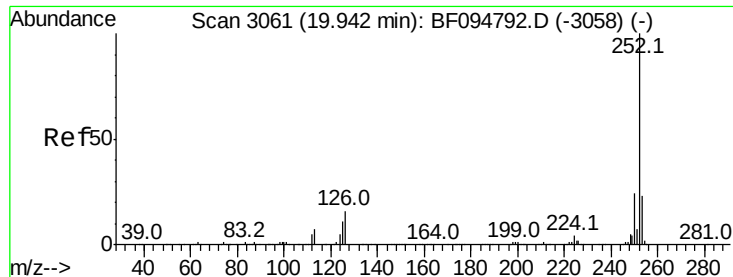
Tot Ion:264 Resp: 169745  
Ion Ratio Lower Upper  
264 100  
260 23.3 19.5 29.3  
265 21.0 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 3.01 ng  
RT: 19.98 min Scan# 3067  
Delta R.T. 0.06 min  
Lab File: BF095139.D  
Acq: 15 May 2017 22:28

Tgt Ion:252 Resp: 31595  
Ion Ratio Lower Upper  
252 100  
253 23.7 18.1 27.1  
125 14.6 9.8 14.8





#88

Benzo(k)fluoranthene

Concen: 3.12 ng

RT: 19.98 min Scan# 3067

Delta R.T. 0.04 min

Lab File: BF095139.D

Acq: 15 May 2017 22:28

Instrument :

BNA\_F

ClientSampleId :

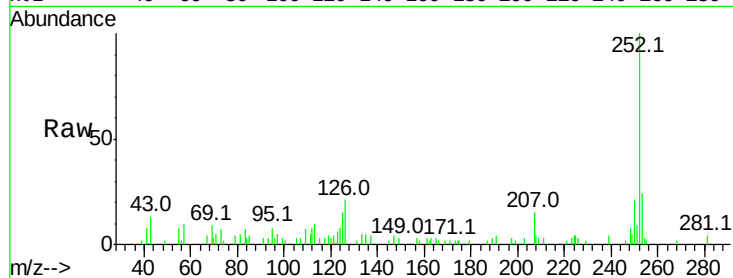
Tot Ion:252 Resp: 31595

Ion Ratio Lower Upper

252 100

253 23.7 18.4 27.6

125 14.6 13.1 19.7



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

