

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061617\  
 Data File : BF095993.D  
 Acq On : 17 Jun 2017 12:32  
 Operator : SJ/MA  
 Sample : I3686-01 10X  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 19 01:10:50 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 16 17:12:03 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.32  | 152  | 63376    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 9.36  | 136  | 261961   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 12.17 | 164  | 106721   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 14.57 | 188  | 162760   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 18.29 | 240  | 133331   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 19.96 | 264  | 124771   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 5.31  | 112  | 25734    | 6.47 | ng    | 0.09     |
| 7) Phenol-d6                | 6.99  | 99   | 42790    | 8.99 | ng    | 0.08     |
| 23) Nitrobenzene-d5         | 8.30  | 82   | 21782    | 5.16 | ng    | 0.05     |
| 41) 2,4,6-Tribromophenol    | 13.50 | 330  | 6376     | 6.75 | ng    | 0.02     |
| 44) 2-Fluorobiphenyl        | 11.13 | 172  | 61183    | 7.98 | ng    | 0.00     |
| 78) Terphenyl-d14           | 16.94 | 244  | 37533    | 6.99 | ng    | -0.01    |

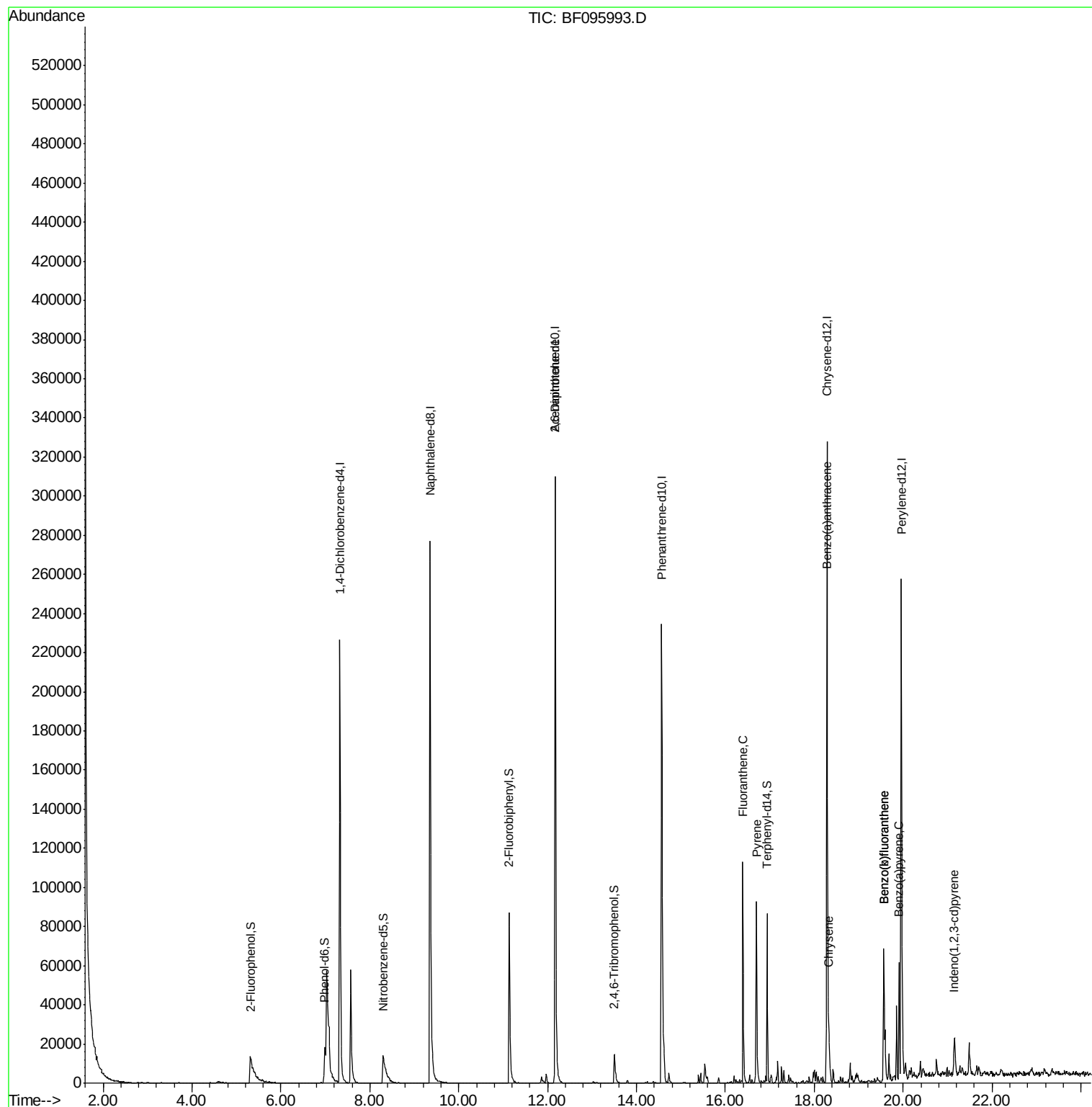
| Target Compounds           | R.T.  | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|------|-------|--------|
| 50) 2,6-Dinitrotoluene     | 12.17 | 165  | 12830    | 7.26 | ng    | # 31   |
| 74) Fluoranthene           | 16.39 | 202  | 66766    | 7.18 | ng    | 98     |
| 77) Pyrene                 | 16.70 | 202  | 58094    | 5.84 | ng    | 97     |
| 80) Benzo(a)anthracene     | 18.27 | 228  | 29459    | 3.80 | ng    | 97     |
| 82) Chrysene               | 18.33 | 228  | 25432    | 3.28 | ng    | 97     |
| 85) Indeno(1,2,3-cd)pyrene | 21.15 | 276  | 13976    | 2.11 | ng    | 92     |
| 87) Benzo(b)fluoranthene   | 19.56 | 252  | 38467    | 4.92 | ng    | # 96   |
| 88) Benzo(k)fluoranthene   | 19.56 | 252  | 38467    | 5.15 | ng    | 100    |
| 89) Benzo(a)pyrene         | 19.91 | 252  | 27623    | 3.85 | ng    | 95     |

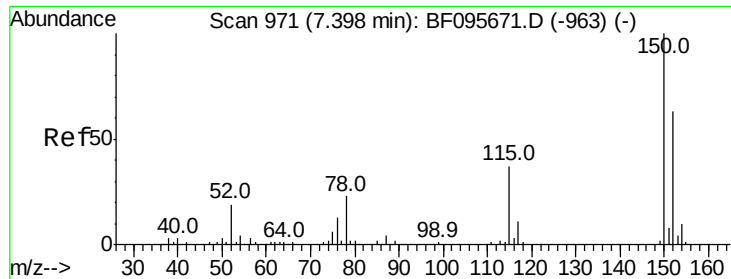
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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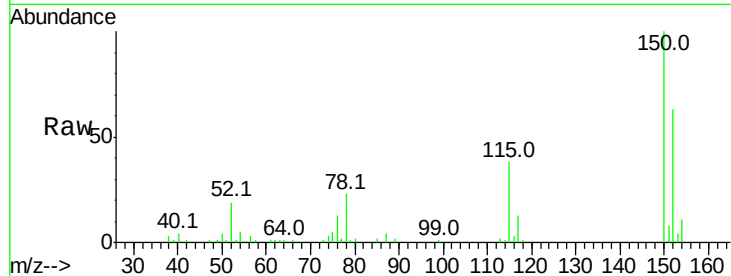


#1

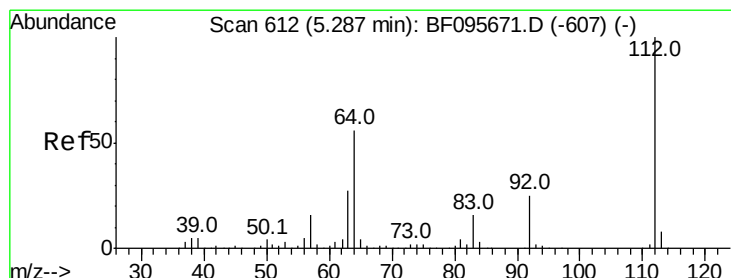
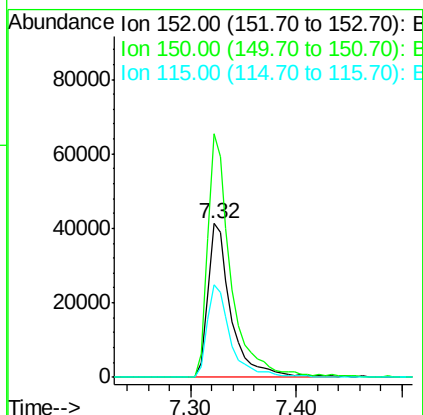
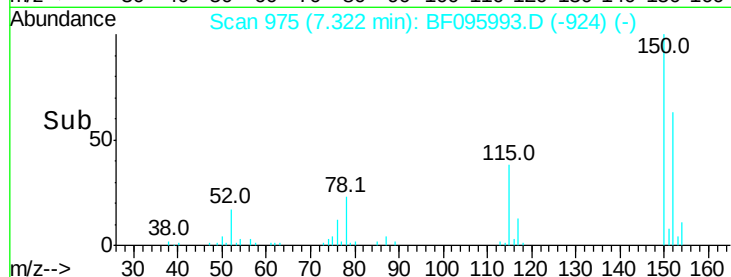
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.32 min Scan# 975  
Delta R.T. 0.00 min  
Lab File: BF095993.D  
Acq: 17 Jun 2017 12:32

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 63376  
Ion Ratio Lower Upper  
152 100  
150 158.6 126.2 189.2  
115 60.3 52.2 78.2



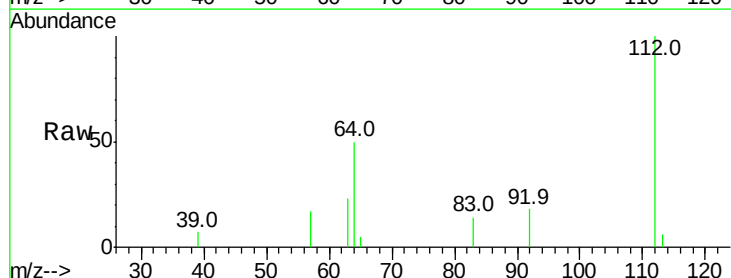
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



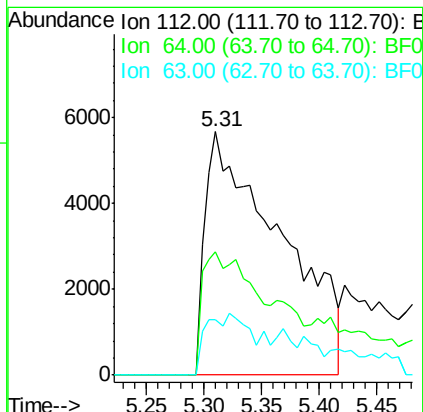
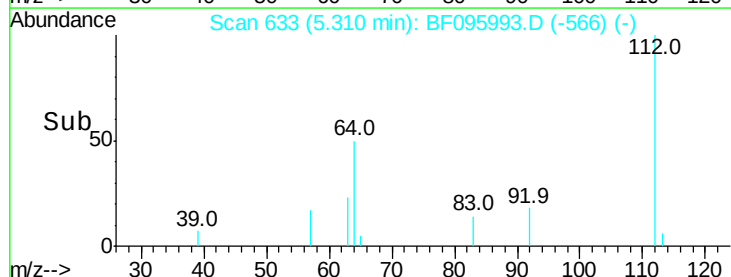
#5

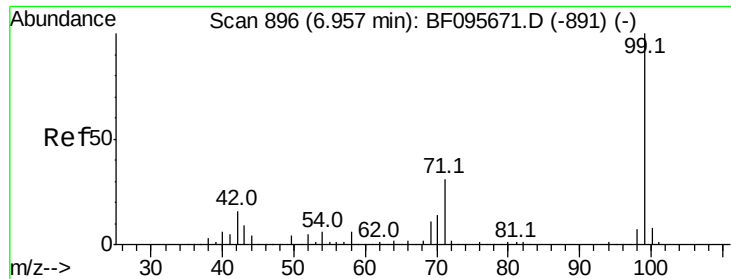
2-Fluorophenol  
Concen: 6.47 ng  
RT: 5.31 min Scan# 633  
Delta R.T. 0.09 min  
Lab File: BF095993.D  
Acq: 17 Jun 2017 12:32

Tgt Ion:112 Resp: 25734  
Ion Ratio Lower Upper  
112 100  
64 50.5 46.0 69.0  
63 22.8 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: 8.99 ng

RT: 6.99 min Scan# 918

Delta R.T. 0.08 min

Lab File: BF095993.D

Acq: 17 Jun 2017 12:32

Instrument :

BNA\_F

ClientSampleId :

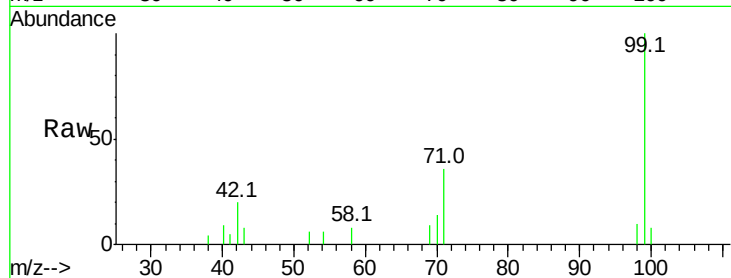
Tot Ion: 99 Resp: 42790

Ion Ratio Lower Upper

99 100

42 20.0 13.5 20.3

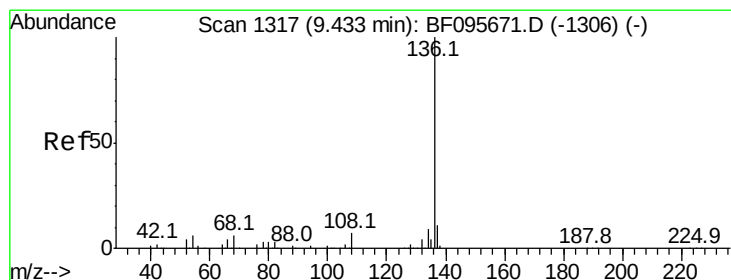
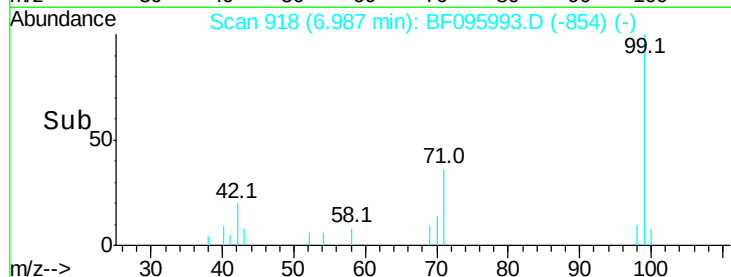
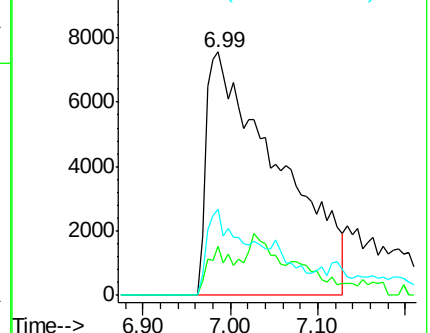
71 35.5 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.36 min Scan# 1321

Delta R.T. 0.00 min

Lab File: BF095993.D

Acq: 17 Jun 2017 12:32

Tgt Ion:136 Resp: 261961

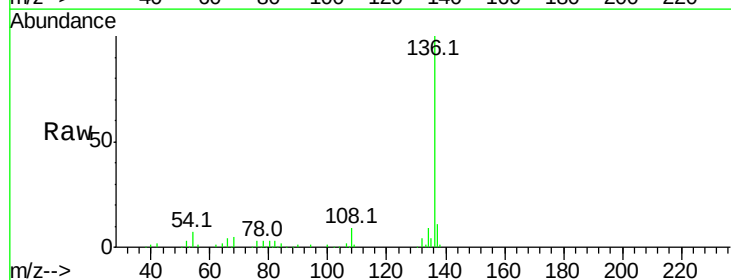
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.8 4.9 7.3

68 5.2 4.1 6.1

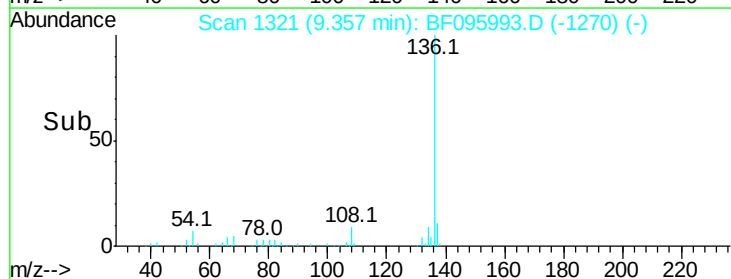
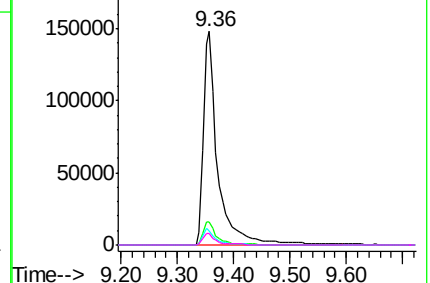


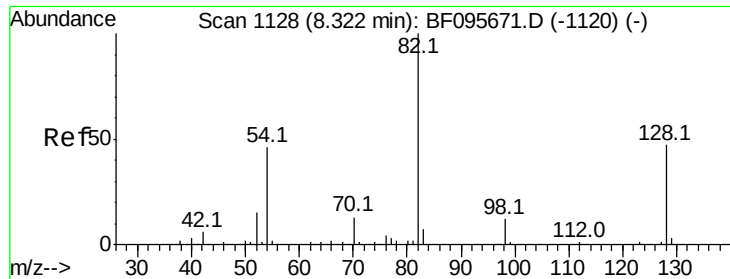
Abundance Ion 136.00 (135.70 to 136.70): E

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

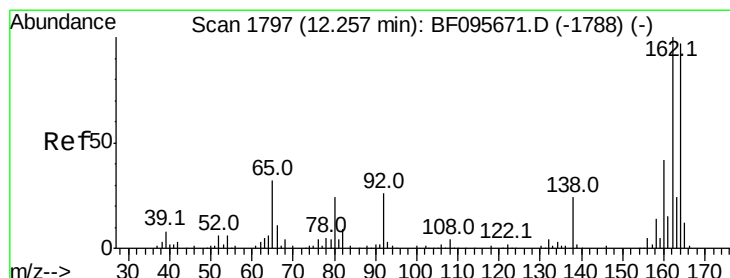
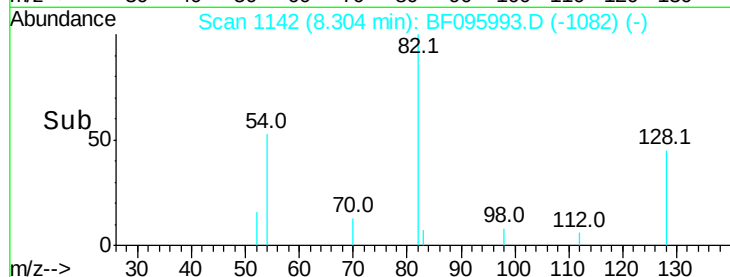
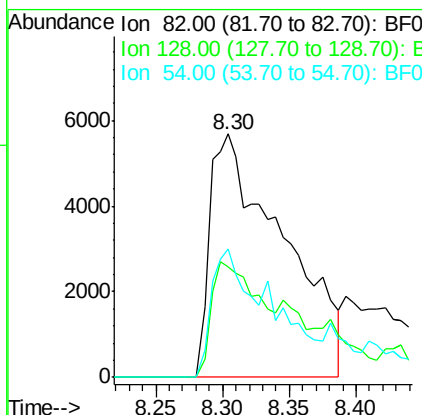
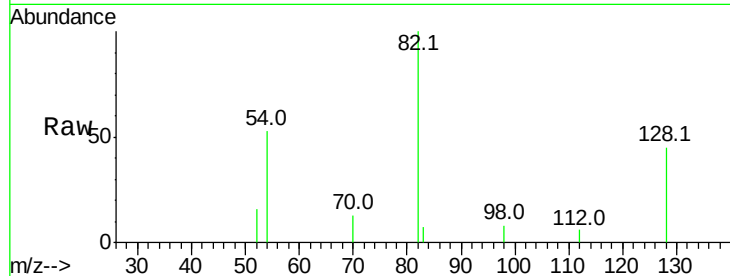




#23  
 Nitrobenzene-d5  
 Concen: 5.16 ng  
 RT: 8.30 min Scan# 1142  
 Delta R.T. 0.05 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

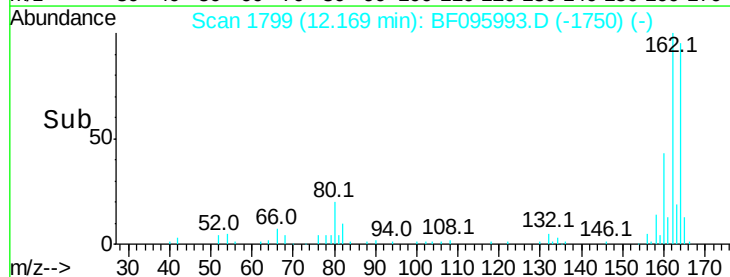
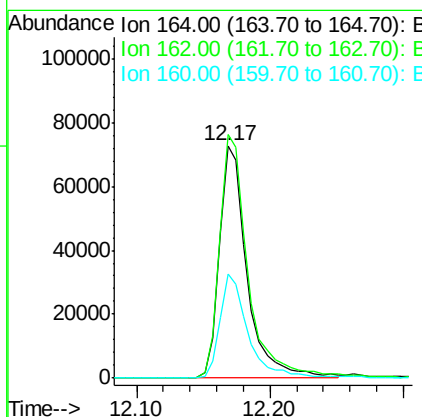
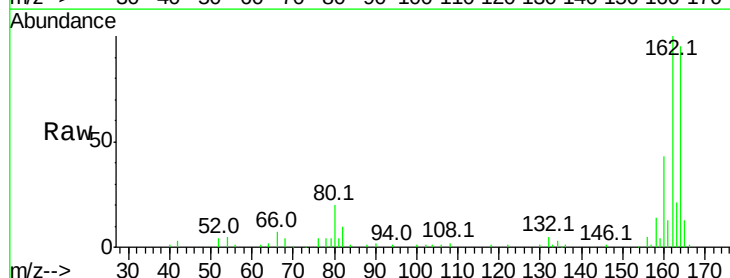
Instrument :  
 BNA\_F  
 ClientSampled :

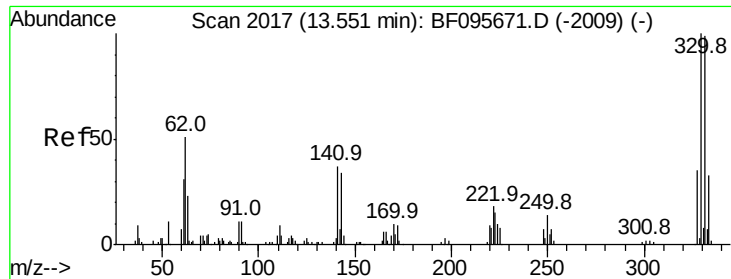
Tot Ion: 82 Resp: 21782  
 Ion Ratio Lower Upper  
 82 100  
 128 45.2 34.0 51.0  
 54 52.7 42.2 63.2



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.17 min Scan# 1799  
 Delta R.T. -0.01 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

Tgt Ion: 164 Resp: 106721  
 Ion Ratio Lower Upper  
 164 100  
 162 104.8 82.6 123.8  
 160 44.6 36.2 54.2

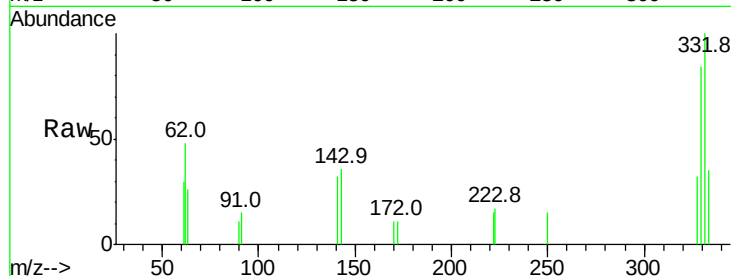




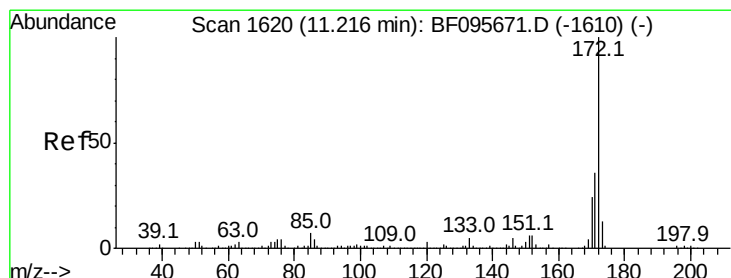
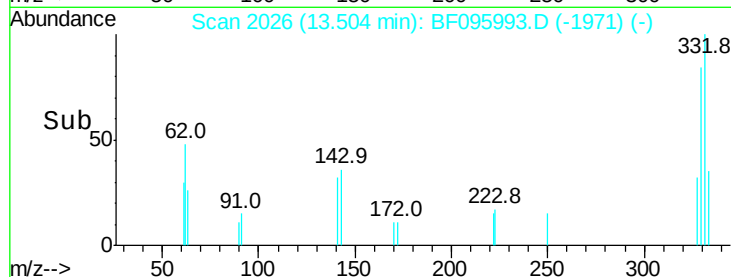
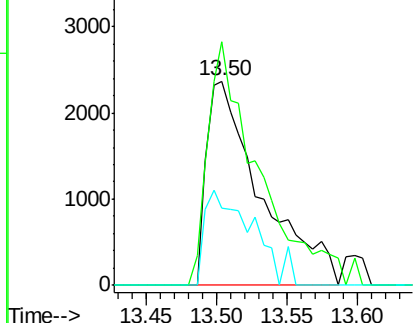
#41  
 2,4,6-Tribromophenol  
 Concen: 6.75 ng  
 RT: 13.50 min Scan# 2026  
 Delta R.T. 0.02 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 6376  
 Ion Ratio Lower Upper  
 330 100  
 332 112.3 76.6 115.0  
 141 40.9 31.4 47.2

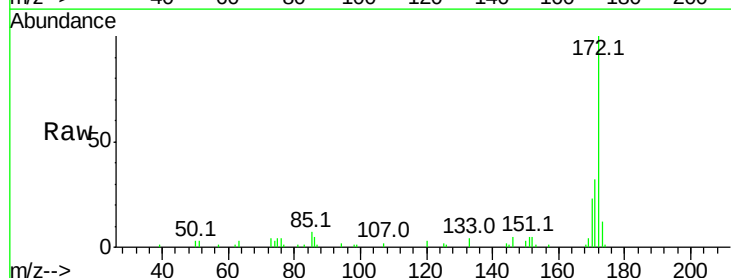


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

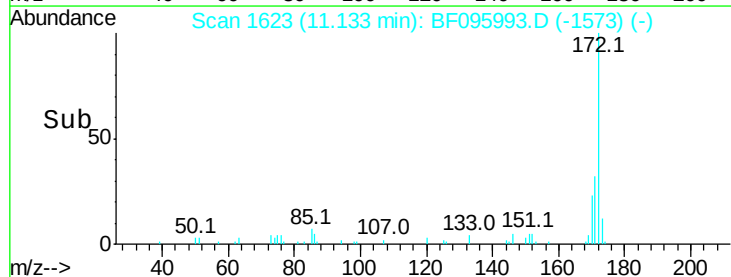
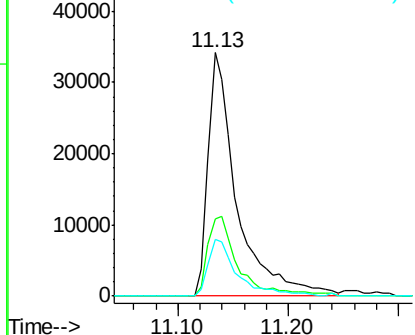


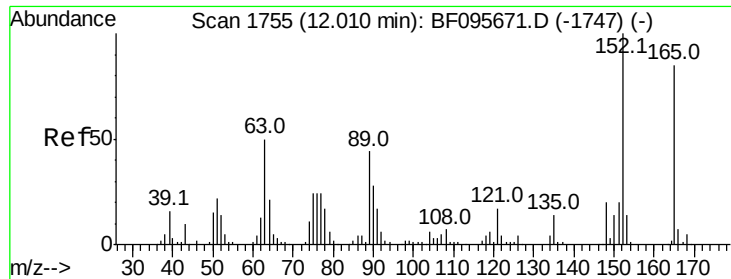
#44  
 2-Fluorobiphenyl  
 Concen: 7.98 ng  
 RT: 11.13 min Scan# 1623  
 Delta R.T. -0.01 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

Tgt Ion:172 Resp: 61183  
 Ion Ratio Lower Upper  
 172 100  
 171 31.5 29.6 44.4  
 170 23.2 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

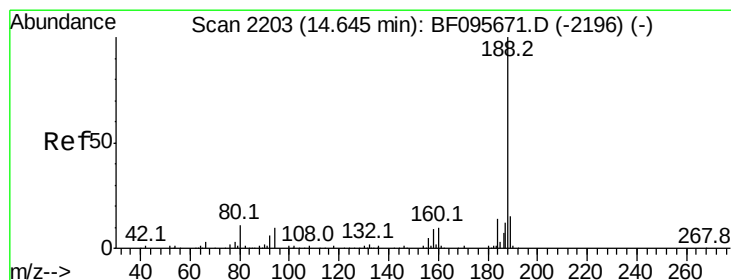
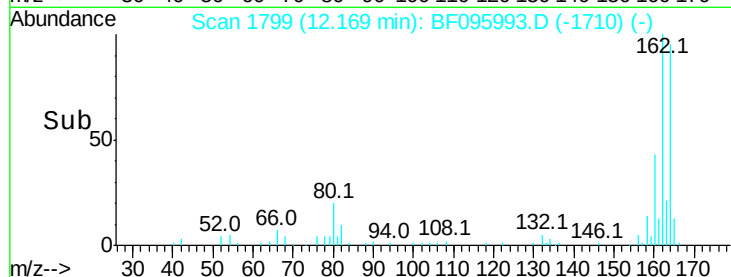
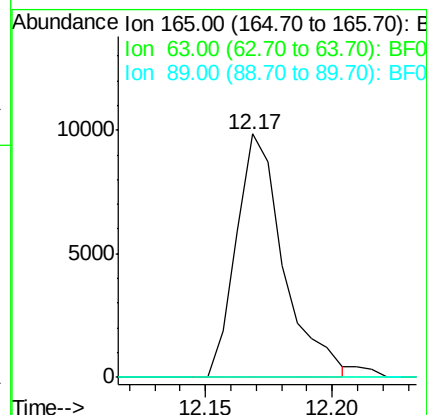
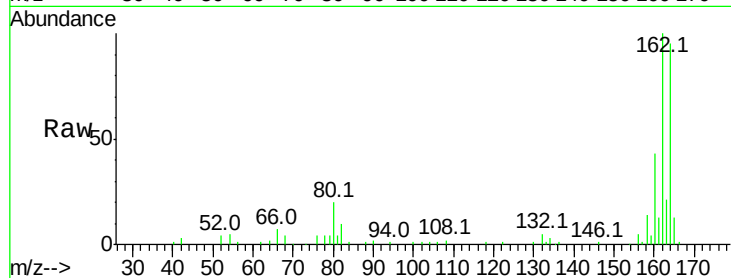




#50  
 2,6-Dinitrotoluene  
 Concen: 7.26 ng  
 RT: 12.17 min Scan# 1799  
 Delta R.T. 0.22 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

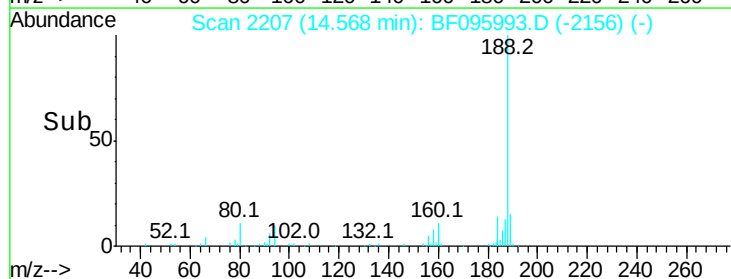
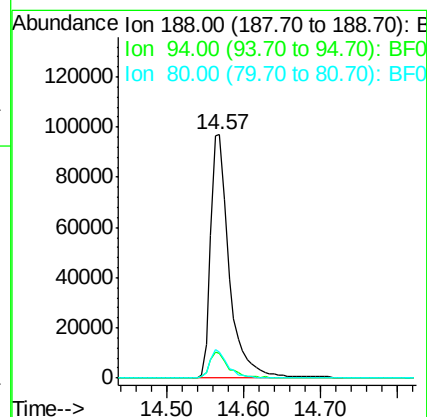
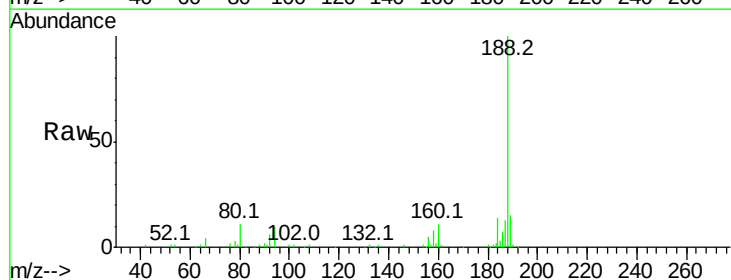
Instrument :  
 BNA\_F  
 ClientSampled :

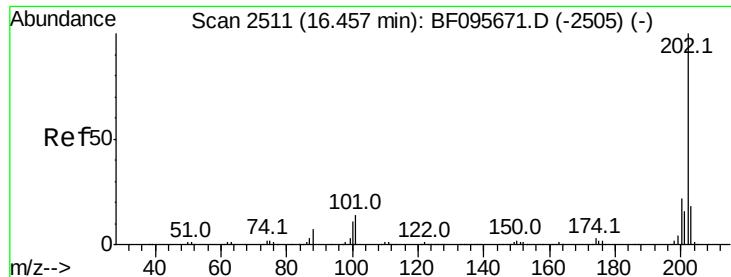
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.57 min Scan# 2207  
 Delta R.T. 0.00 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.3  | 9.4   | 14.2  |
| 80      | 10.5  | 10.2  | 15.2  |

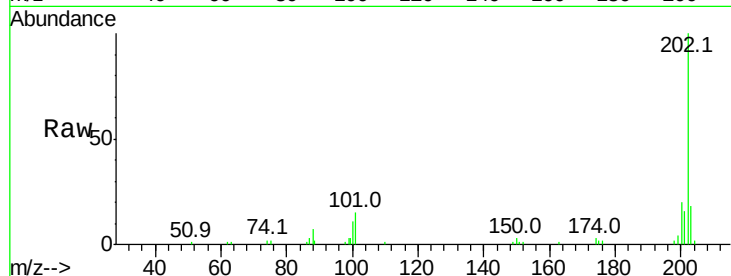




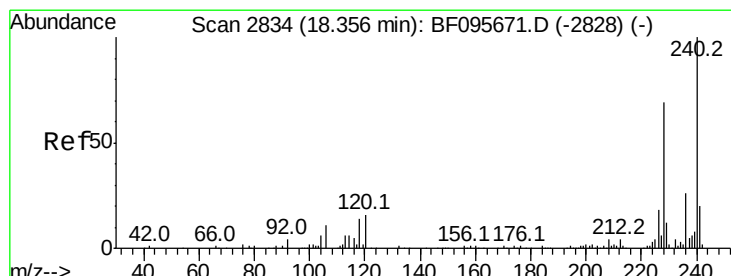
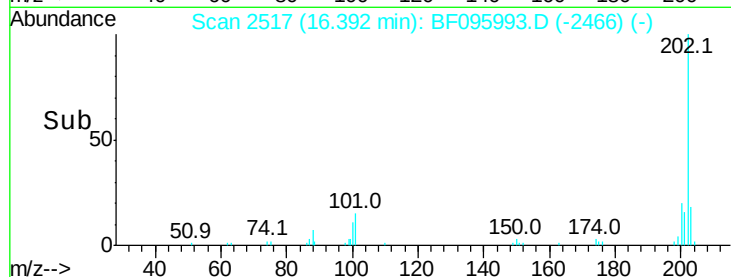
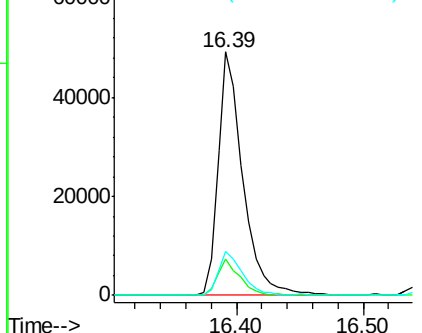
#74  
 Fluoranthene  
 Concen: 7.18 ng  
 RT: 16.39 min Scan# 2517  
 Delta R.T. 0.00 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.9  | 0.0   | 33.2  |
| 203     | 18.2  | 0.0   | 38.1  |

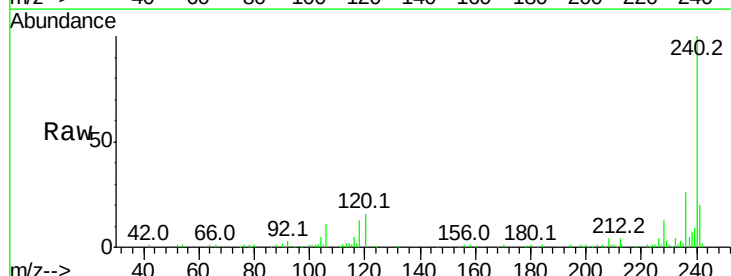


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

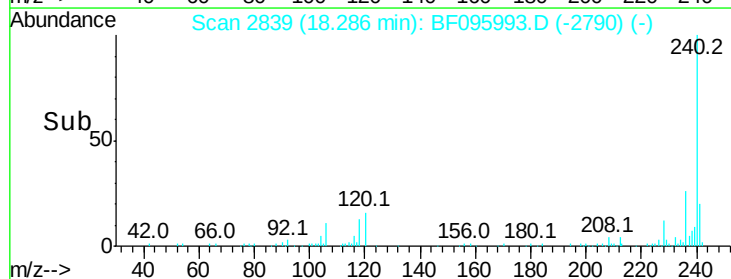
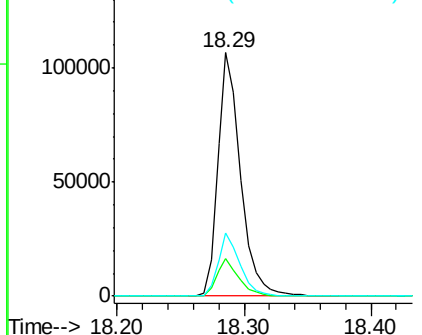


#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.29 min Scan# 2839  
 Delta R.T. -0.01 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

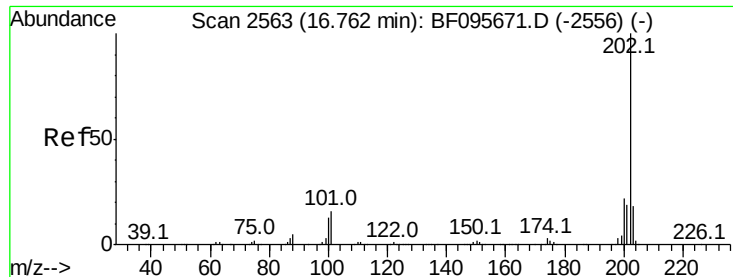
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.6  | 5.8   | 8.8#  |
| 236     | 25.8  | 20.5  | 30.7  |



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



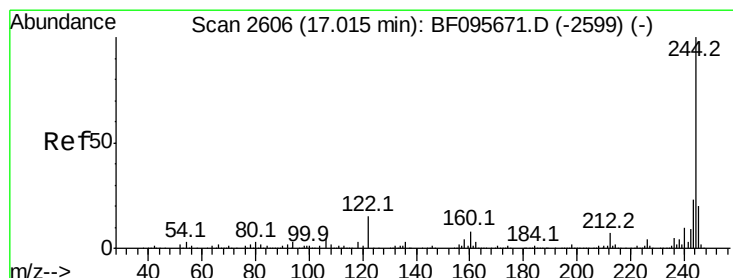
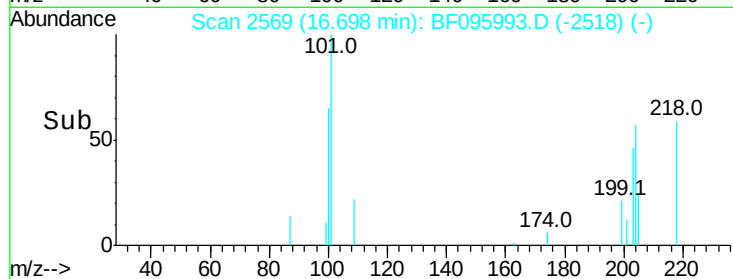
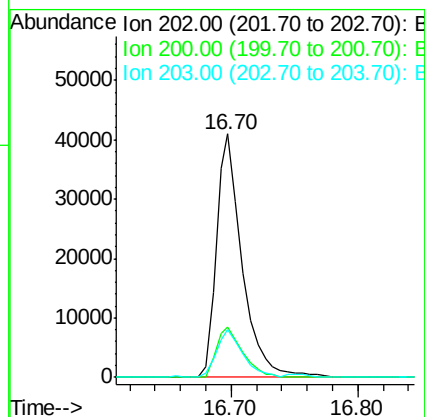
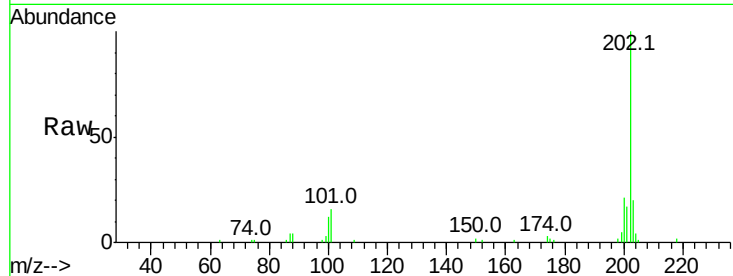




#77  
Pvrene  
Concen: 5.84 ng  
RT: 16.70 min Scan# 2569  
Delta R.T. 0.00 min  
Lab File: BF095993.D  
Acq: 17 Jun 2017 12:32

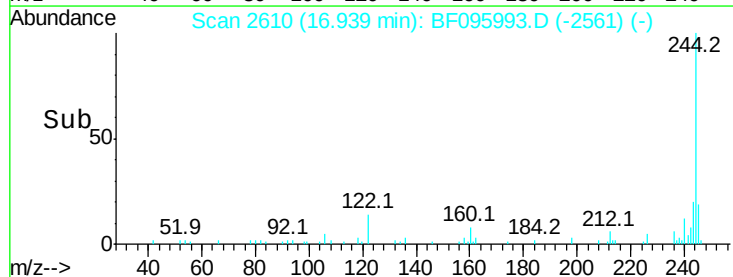
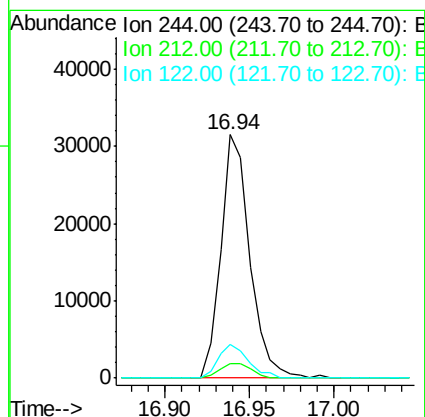
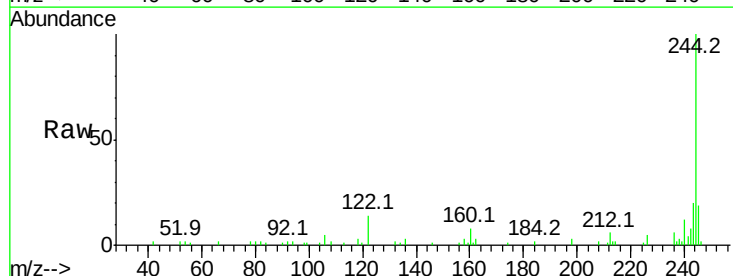
Instrument :  
BNA\_F  
ClientSampleId :

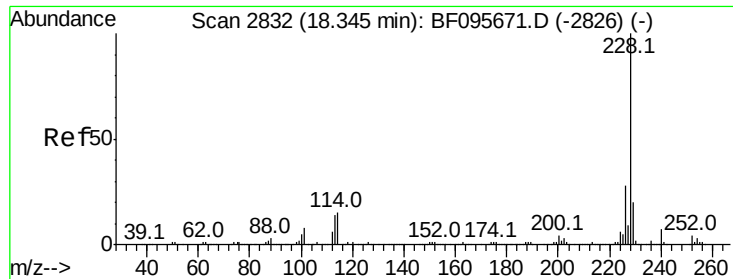
Tot Ion:202 Resp: 58094  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.6 26.4  
203 19.7 14.4 21.6



#78  
Terphenyl-d14  
Concen: 6.99 ng  
RT: 16.94 min Scan# 2610  
Delta R.T. -0.01 min  
Lab File: BF095993.D  
Acq: 17 Jun 2017 12:32

Tgt Ion:244 Resp: 37533  
Ion Ratio Lower Upper  
244 100  
212 6.1 6.0 9.0  
122 14.1 10.3 15.5





#80

Benzo(a)anthracene

Concen: 3.80 ng

RT: 18.27 min Scan# 2837

Delta R.T. -0.01 min

Lab File: BF095993.D

Acq: 17 Jun 2017 12:32

Instrument :

BNA\_F

ClientSampleId :

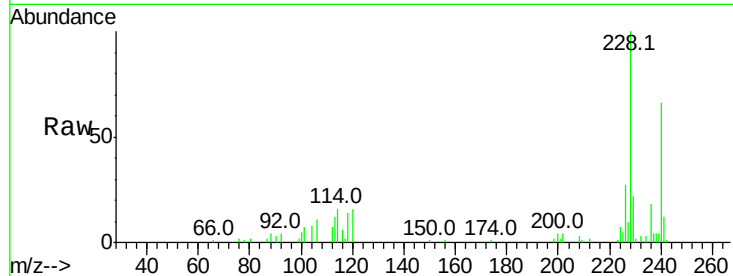
Tot Ion:228 Resp: 29459

Ion Ratio Lower Upper

228 100

226 26.8 22.6 33.8

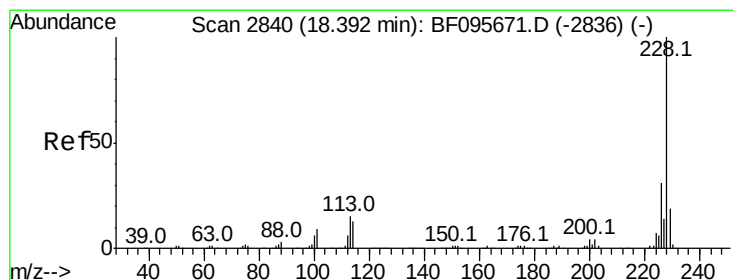
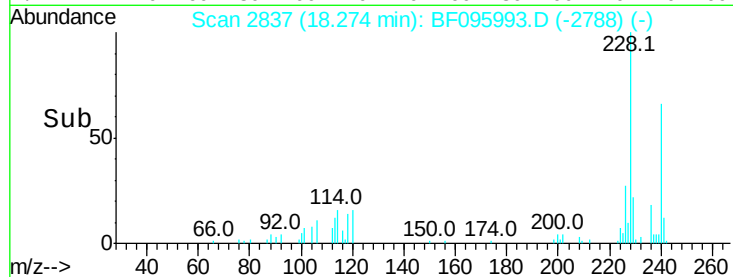
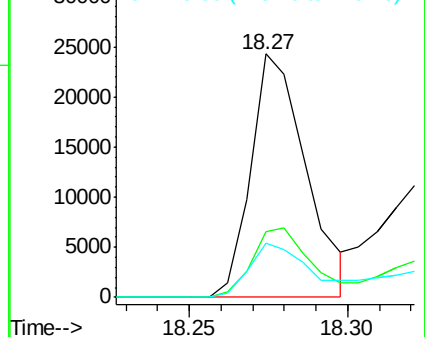
229 22.3 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 3.28 ng

RT: 18.33 min Scan# 2846

Delta R.T. -0.01 min

Lab File: BF095993.D

Acq: 17 Jun 2017 12:32

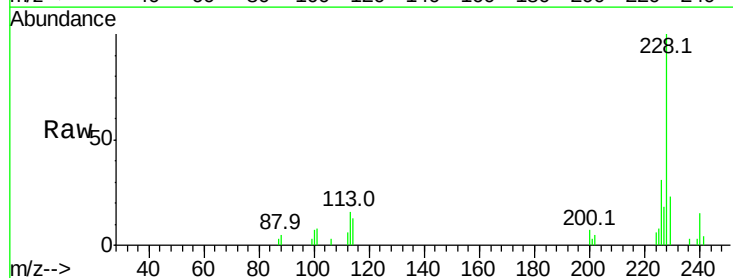
Tgt Ion:228 Resp: 25432

Ion Ratio Lower Upper

228 100

226 31.4 24.9 37.3

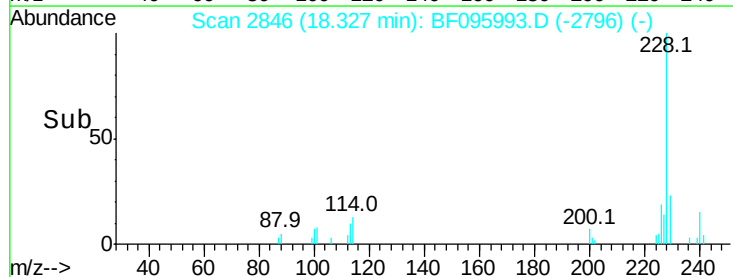
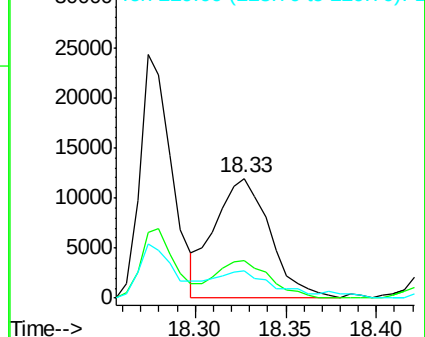
229 22.7 15.8 23.6

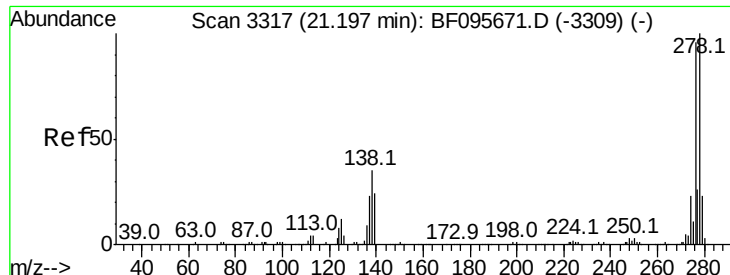


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



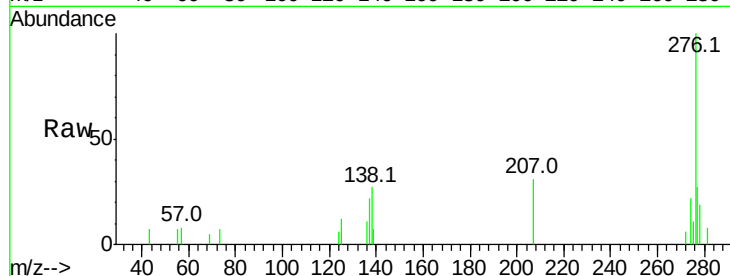


#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.11 ng  
 RT: 21.15 min Scan# 3326  
 Delta R.T. 0.02 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

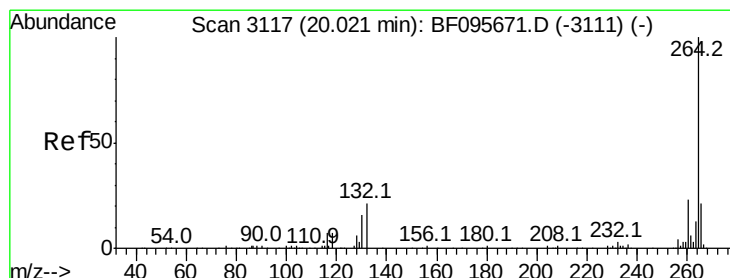
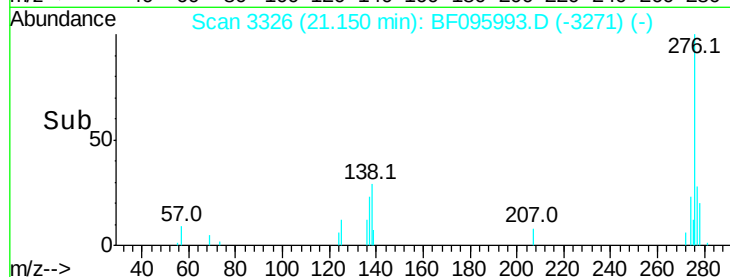
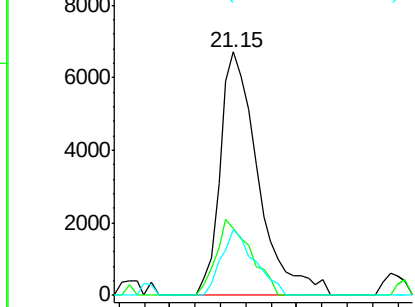
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:276 Resp: 13976  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 28.5  | 27.8  | 41.6  |
| 277 | 23.6  | 20.2  | 30.4  |



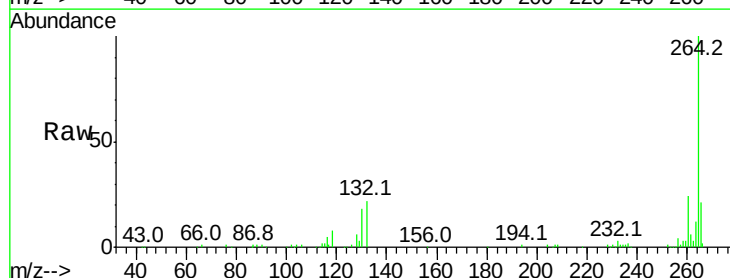
Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E



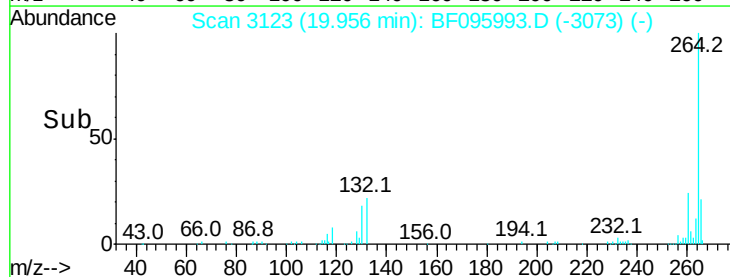
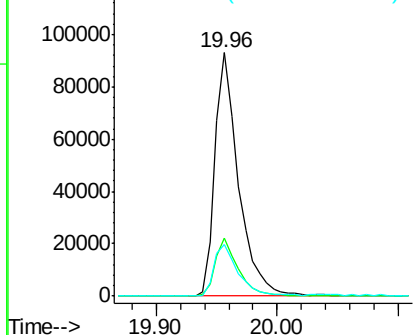
#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 19.96 min Scan# 3123  
 Delta R.T. -0.01 min  
 Lab File: BF095993.D  
 Acq: 17 Jun 2017 12:32

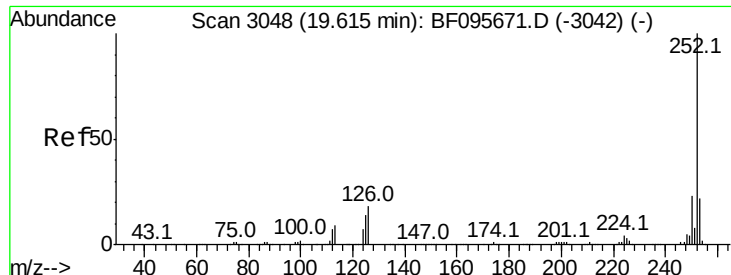
Tgt Ion:264 Resp: 124771  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 19.5  | 29.3  |
| 265 | 21.1  | 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

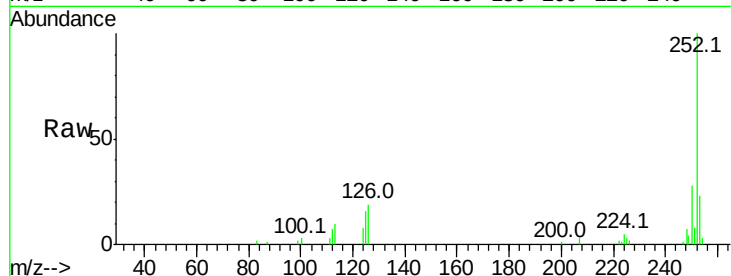




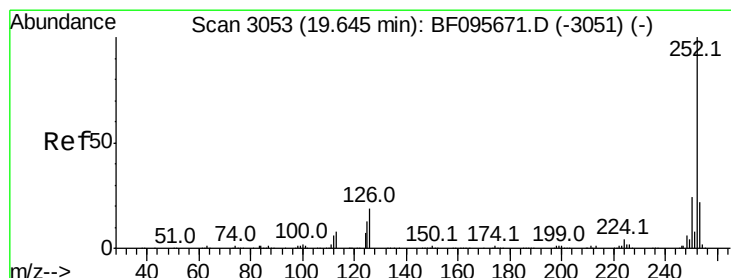
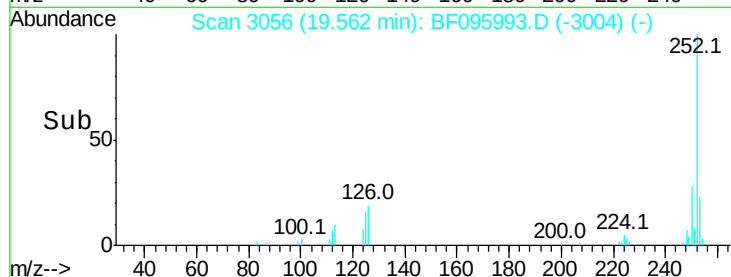
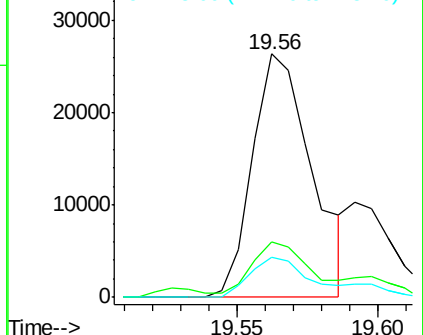
#87  
Benzo(b)fluoranthene  
Concen: 4.92 ng  
RT: 19.56 min Scan# 3056  
Delta R.T. 0.01 min  
Lab File: BF095993.D  
Acq: 17 Jun 2017 12:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 38467  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.1 27.1  
125 16.3 9.8 14.8#

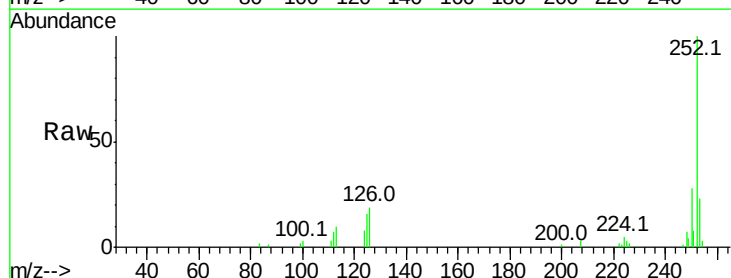


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

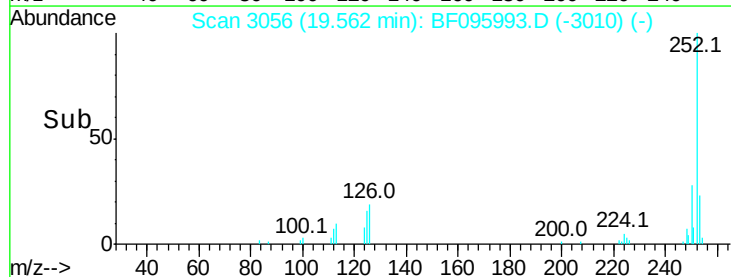
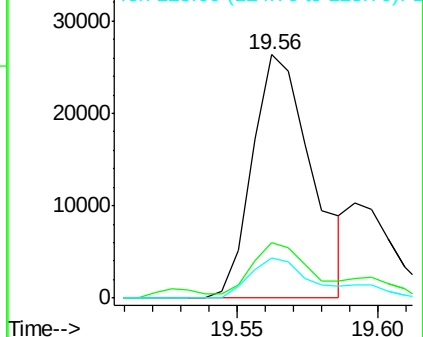


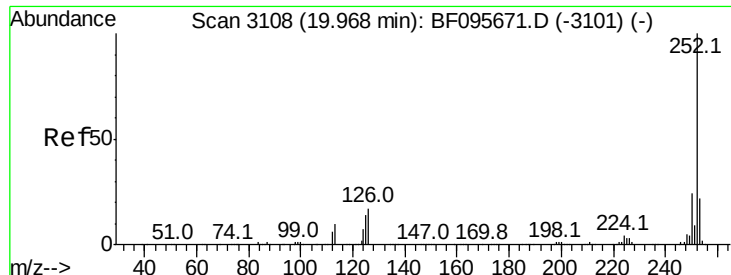
#88  
Benzo(k)fluoranthene  
Concen: 5.15 ng  
RT: 19.56 min Scan# 3056  
Delta R.T. -0.03 min  
Lab File: BF095993.D  
Acq: 17 Jun 2017 12:32

Tgt Ion:252 Resp: 38467  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.4 27.6  
125 16.3 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





#89

Benzo(a)pyrene

Concen: 3.85 ng

RT: 19.91 min Scan# 3115

Delta R.T. 0.00 min

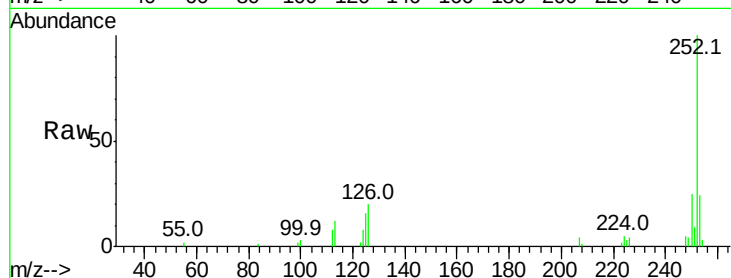
Lab File: BF095993.D

Acq: 17 Jun 2017 12:32

Instrument :

BNA\_F

ClientSampleId :



Tot Ion:252 Resp: 27623

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

125 16.3 11.0 16.4

