

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\  
 Data File : BF091689.D  
 Acq On : 16 Dec 2016 22:50  
 Operator : UM/SJ  
 Sample : H6099-16  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP13-1.5FT

Quant Time: Dec 19 13:02:02 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 16 00:35:41 2016  
 Response via : Initial Calibration

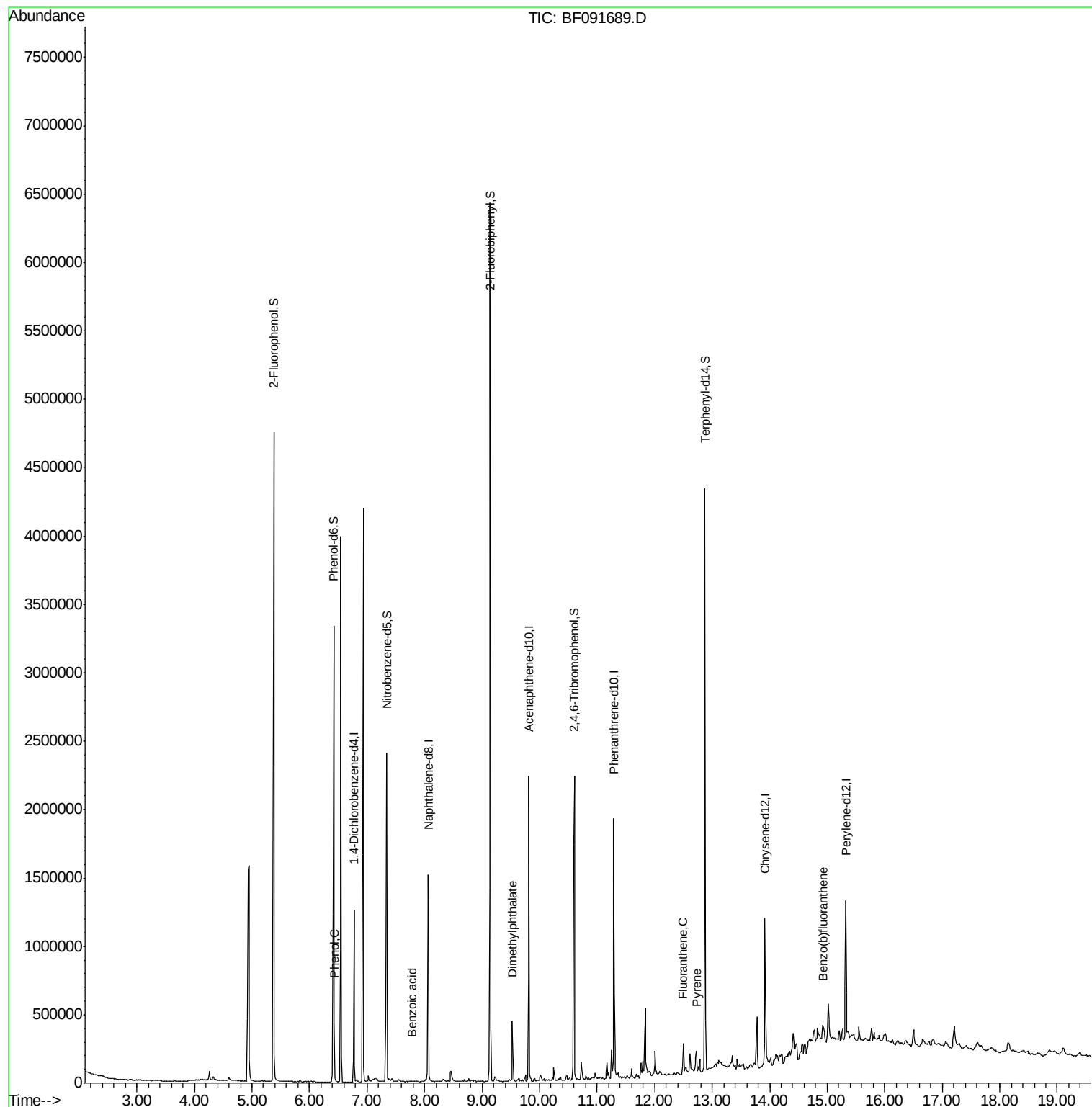
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 168396   | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8          | 8.06  | 136  | 1014885  | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10        | 9.81  | 164  | 497958   | 20.00  | ng    | -0.01     |
| 63) Phenanthrene-d10        | 11.29 | 188  | 640881   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12            | 13.92 | 240  | 375363   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12            | 15.32 | 264  | 466169   | 20.00  | ng    | -0.02     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.38  | 112  | 1425195  | 142.59 | ng    | 0.00      |
| 7) Phenol-d6                | 6.42  | 99   | 1066725  | 85.61  | ng    | -0.01     |
| 23) Nitrobenzene-d5         | 7.34  | 82   | 1282231  | 70.52  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 361779   | 87.47  | ng    | -0.01     |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 1859774  | 64.53  | ng    | -0.01     |
| 78) Terphenyl-d14           | 12.88 | 244  | 1290252  | 78.00  | ng    | -0.02     |
| Target Compounds            |       |      |          |        |       |           |
| 10) Phenol                  | 6.43  | 94   | 79441    | 5.45   | ng    | Qvalue 87 |
| 32) Benzoic acid            | 7.78  | 122  | 977      | 4.98   | ng    | # 80      |
| 49) Dimethylphthalate       | 9.53  | 163  | 199657   | 6.33   | ng    | 97        |
| 74) Fluoranthene            | 12.50 | 202  | 90571    | 2.73   | ng    | 98        |
| 77) Pyrene                  | 12.73 | 202  | 76833    | 2.58   | ng    | 97        |
| 87) Benzo(b)fluoranthene    | 14.92 | 252  | 73390m   | 2.64   | ng    |           |

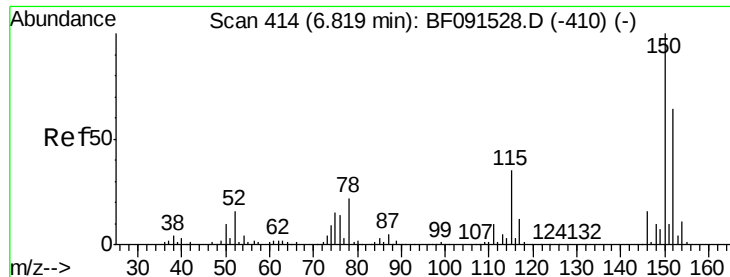
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\  
Data File : BF091689.D  
Acq On : 16 Dec 2016 22:50  
Operator : UM/SJ  
Sample : H6099-16  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP13-1.5FT

Quant Time: Dec 19 13:02:02 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 16 00:35:41 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

Instrument :

BNA\_F

ClientSampleId :

TP13-1.5FT

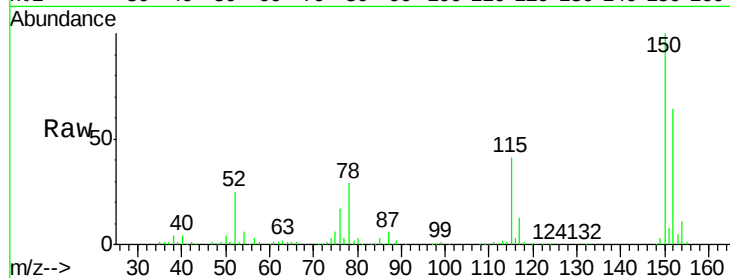
Tot Ion:152 Resp: 168396

Ion Ratio Lower Upper

152 100

150 157.4 122.5 183.7

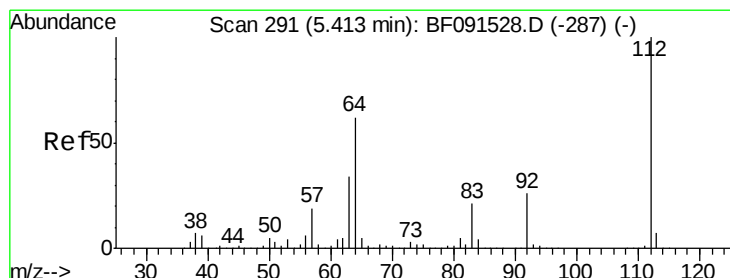
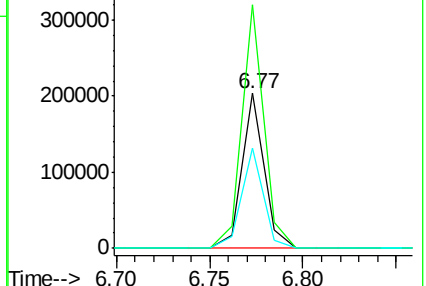
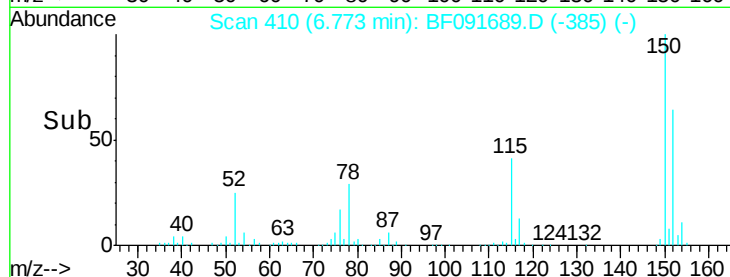
115 65.0 51.8 77.8



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: 142.59 ng

RT: 5.38 min Scan# 288

Delta R.T. 0.00 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

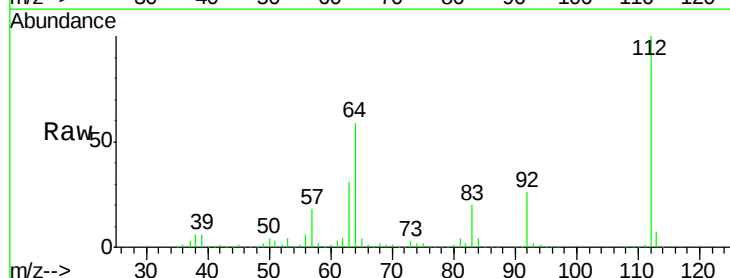
Tgt Ion:112 Resp: 1425195

Ion Ratio Lower Upper

112 100

64 58.9 61.5 92.3#

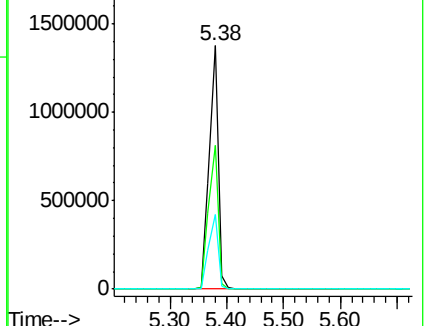
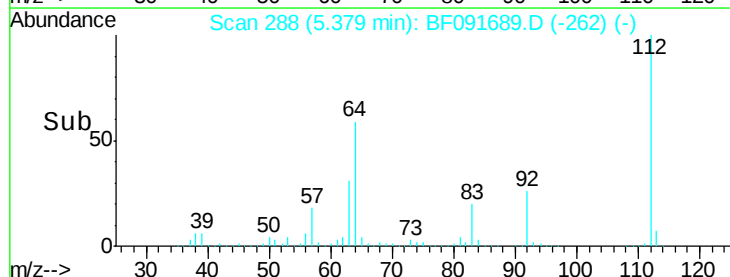
63 30.6 33.3 49.9#



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: 85.61 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

Instrument :

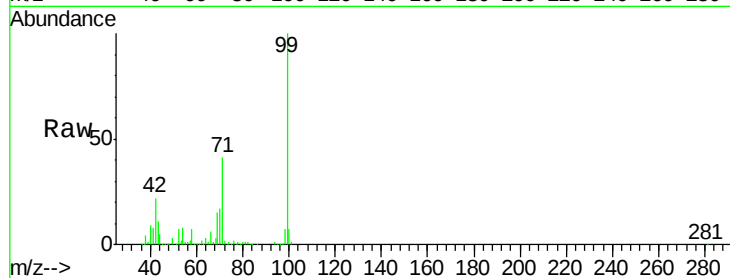
BNA\_F

ClientSampleId :

TP13-1.5FT

Tot Ion: 99 Resp: 1066725

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.3  | 20.6  | 31.0  |
| 71  | 40.7  | 29.9  | 44.9  |

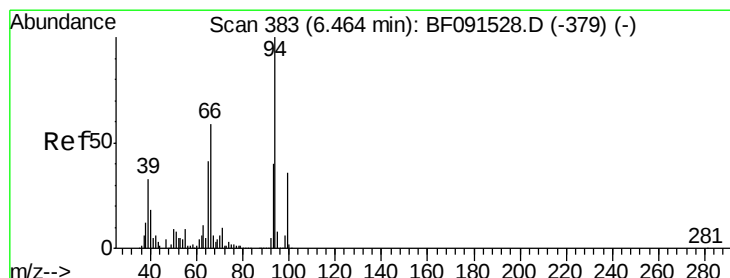
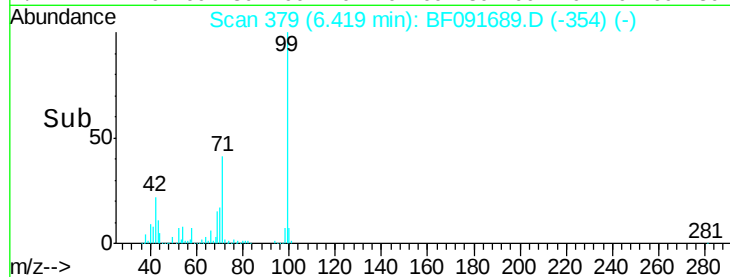
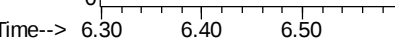
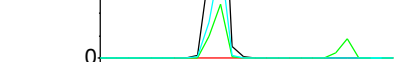
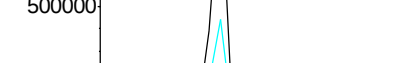
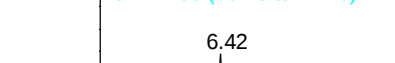


Abundance

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: 5.45 ng

RT: 6.43 min Scan# 380

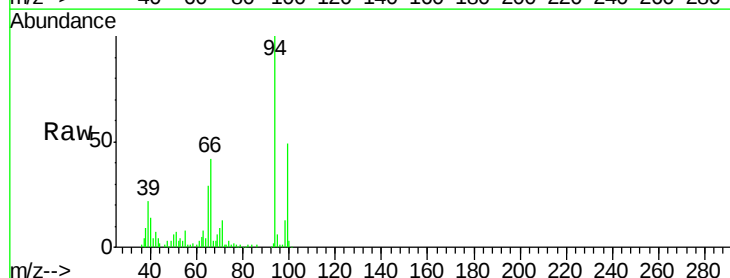
Delta R.T. -0.01 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

Tgt Ion: 94 Resp: 79441

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 29.4  | 16.9  | 56.9  |
| 66  | 41.8  | 30.6  | 70.6  |

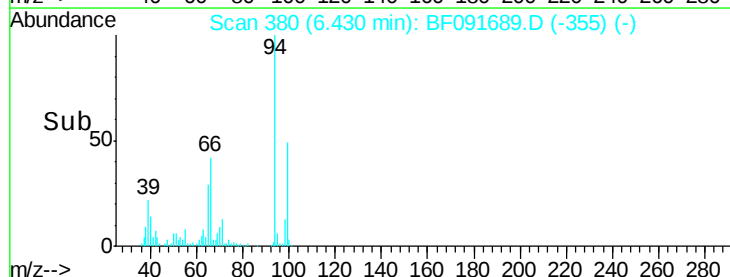
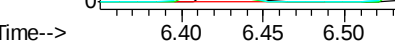
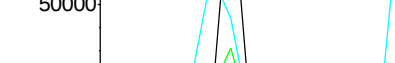


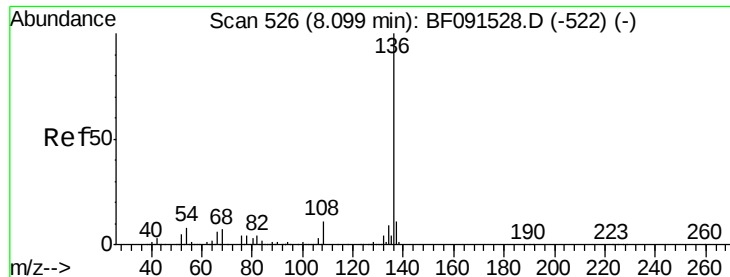
Abundance

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

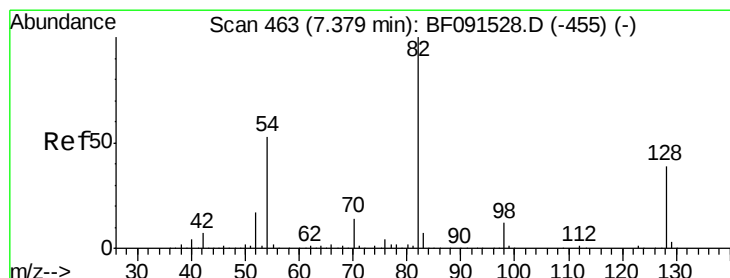
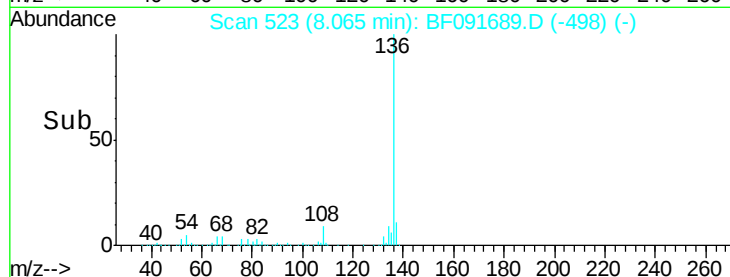
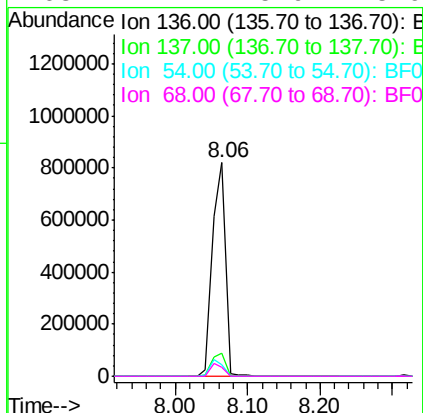
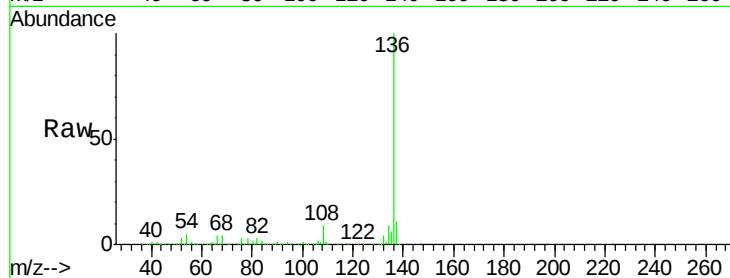




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.06 min Scan# 523  
Delta R.T. -0.01 min  
Lab File: BF091689.D  
Acq: 16 Dec 2016 22:50

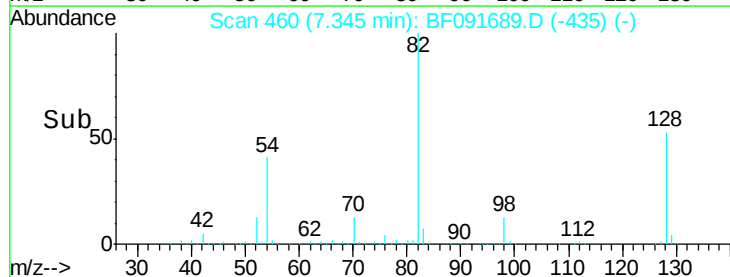
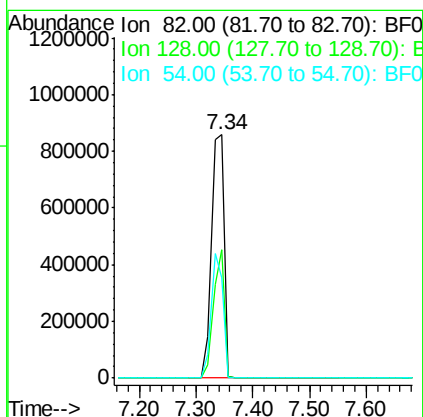
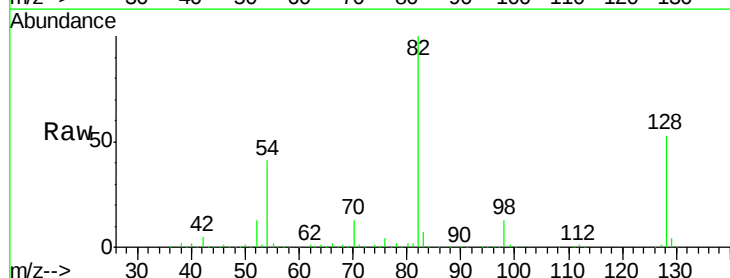
Instrument :  
BNA\_F  
ClientSampleId :  
TP13-1.5FT

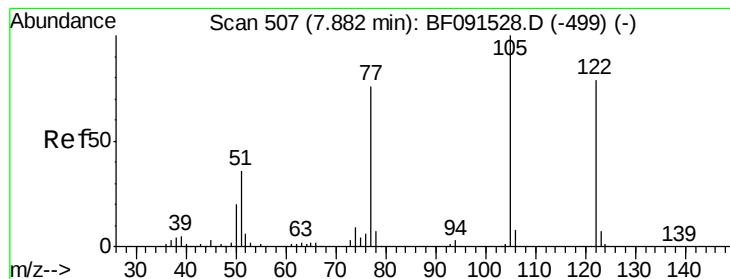
Tot Ion:136 Resp: 1014885  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.1 13.7  
54 5.2 9.1 13.7#  
68 4.2 5.9 8.9#



#23  
Nitrobenzene-d5  
Concen: 70.52 ng  
RT: 7.34 min Scan# 460  
Delta R.T. -0.01 min  
Lab File: BF091689.D  
Acq: 16 Dec 2016 22:50

Tgt Ion: 82 Resp: 1282231  
Ion Ratio Lower Upper  
82 100  
128 52.7 31.8 47.6#  
54 41.4 49.1 73.7#





#32

Benzoic acid

Concen: 4.98 ng

RT: 7.78 min Scan# 498

Delta R.T. -0.08 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

Instrument :

BNA\_F

ClientSampleId :

TP13-1.5FT

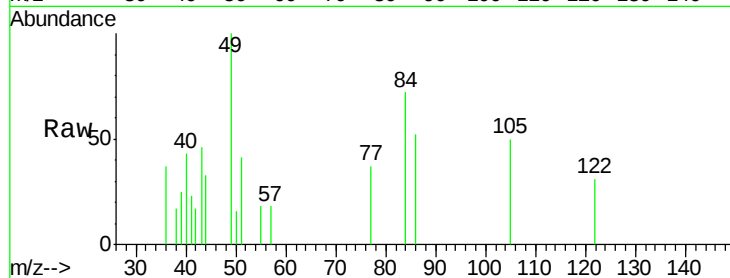
Tot Ion:122 Resp: 977

Ion Ratio Lower Upper

122 100

105 159.6 113.0 153.0#

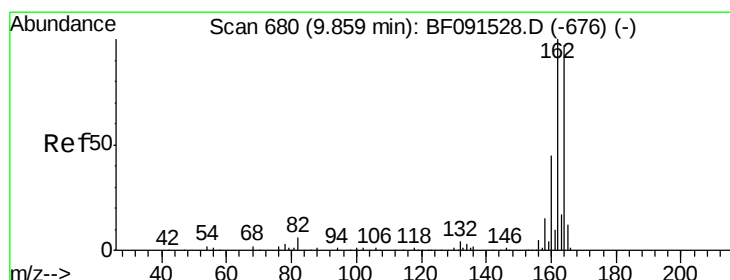
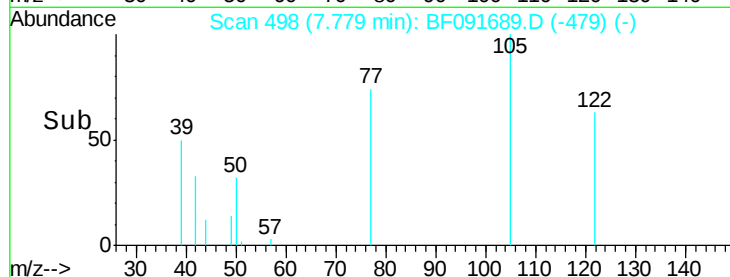
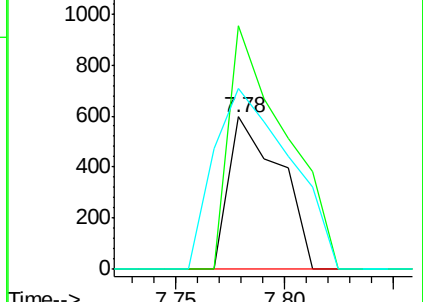
77 118.4 82.0 122.0



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 676

Delta R.T. -0.01 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

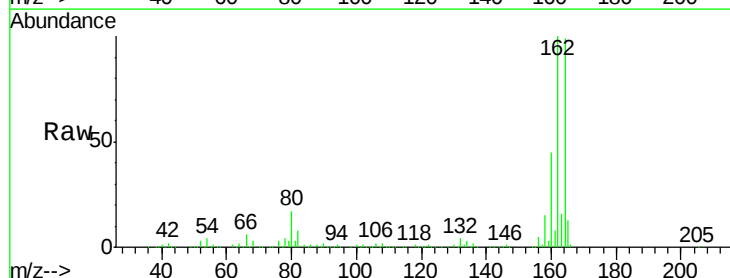
Tgt Ion:164 Resp: 497958

Ion Ratio Lower Upper

164 100

162 101.1 82.6 124.0

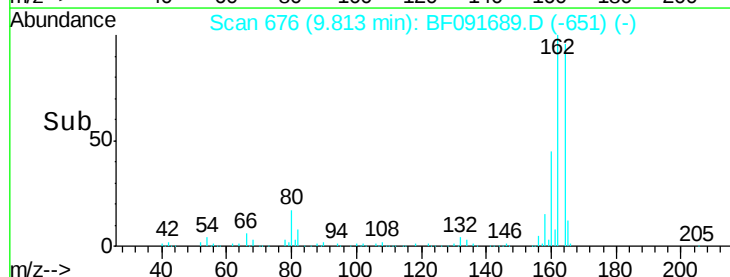
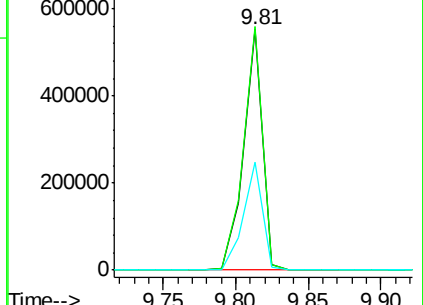
160 45.0 36.7 55.1

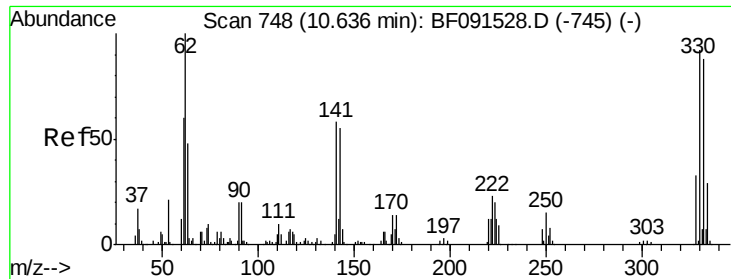


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

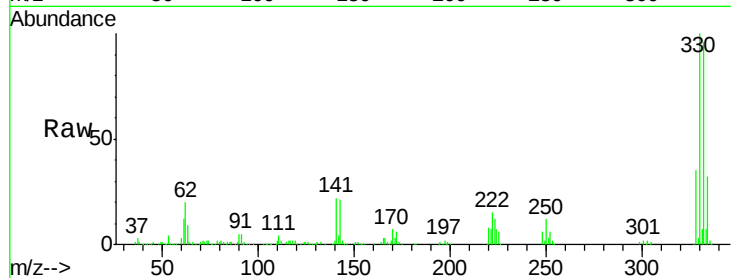




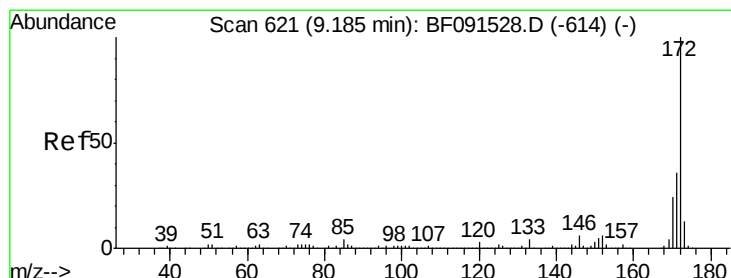
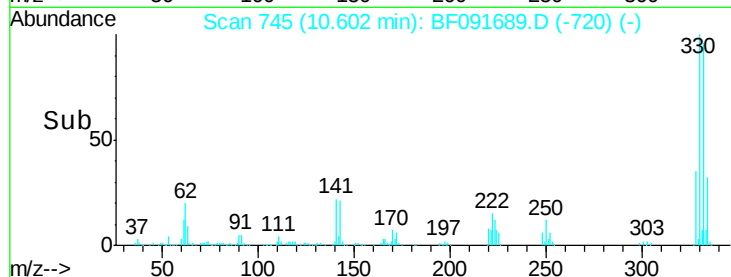
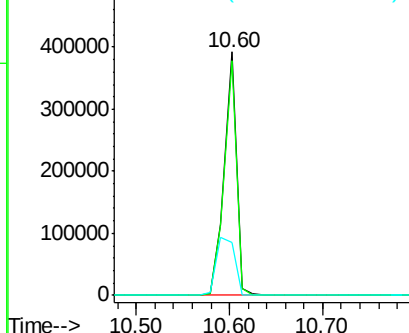
#41  
 2,4,6-Tribromophenol  
 Concen: 87.47 ng  
 RT: 10.60 min Scan# 745  
 Delta R.T. -0.01 min  
 Lab File: BF091689.D  
 Acq: 16 Dec 2016 22:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP13-1.5FT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 76.2  | 114.4 |
| 141     | 35.4  | 33.6  | 50.4  |

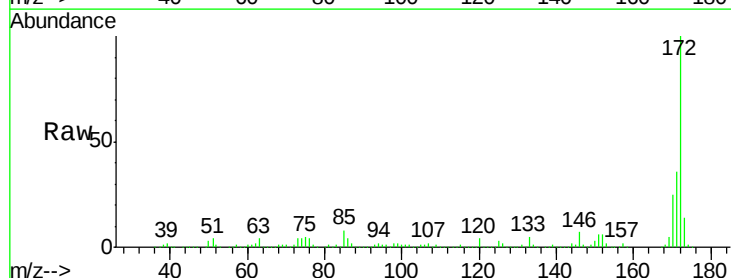


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

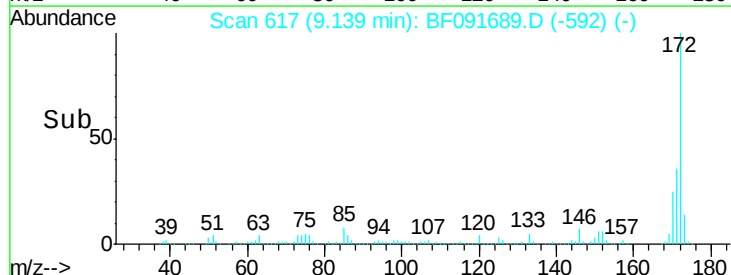
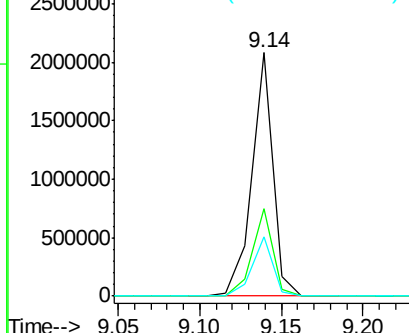


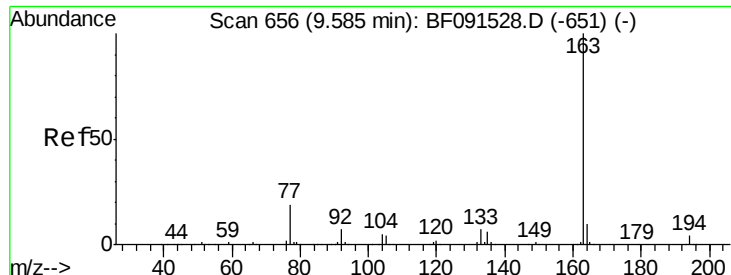
#44  
 2-Fluorobiphenyl  
 Concen: 64.53 ng  
 RT: 9.14 min Scan# 617  
 Delta R.T. -0.01 min  
 Lab File: BF091689.D  
 Acq: 16 Dec 2016 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.4  | 44.0  |
| 170     | 24.6  | 19.7  | 29.5  |



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

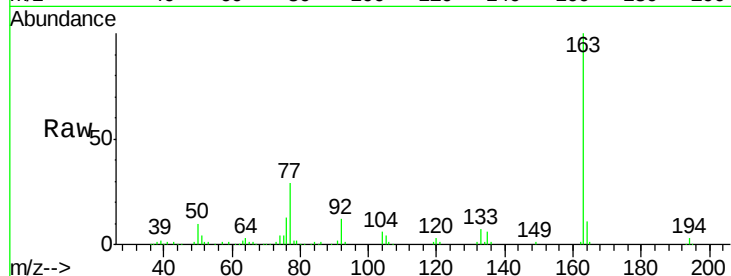




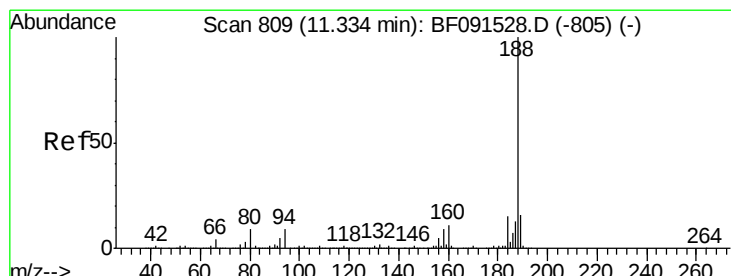
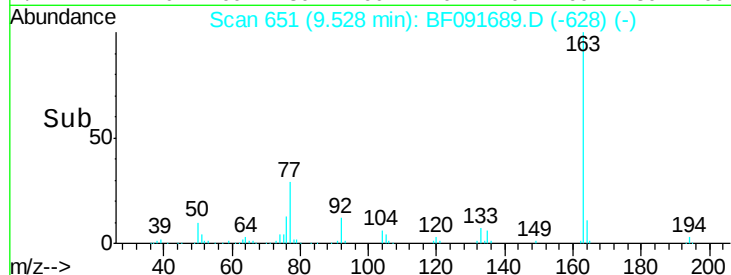
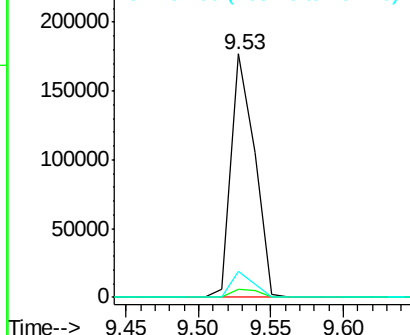
#49  
Dimethylphthalate  
Concen: 6.33 ng  
RT: 9.53 min Scan# 651  
Delta R.T. -0.03 min  
Lab File: BF091689.D  
Acq: 16 Dec 2016 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
TP13-1.5FT

Tot Ion:163 Resp: 199657  
Ion Ratio Lower Upper  
163 100  
194 3.1 3.0 4.4  
164 10.9 7.8 11.8

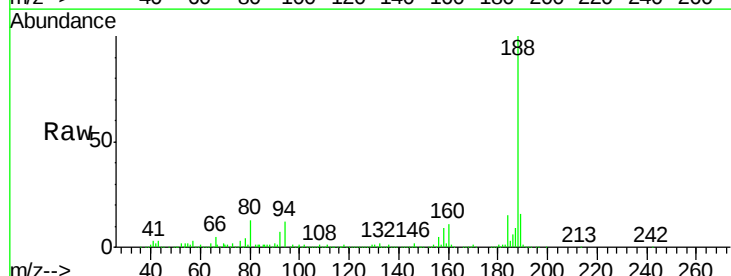


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

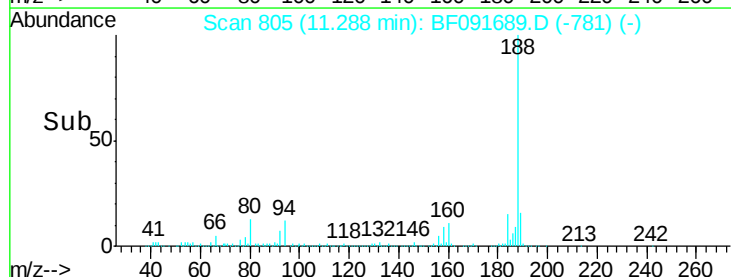
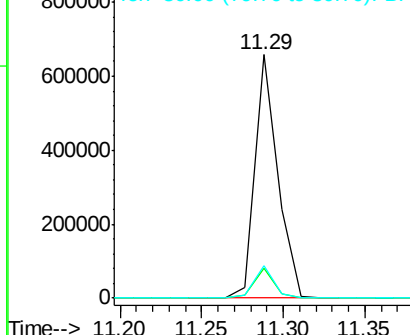


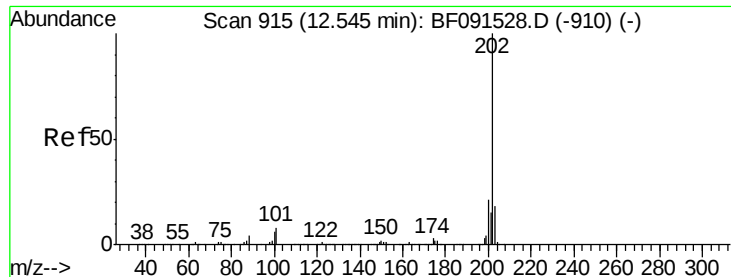
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.29 min Scan# 805  
Delta R.T. -0.02 min  
Lab File: BF091689.D  
Acq: 16 Dec 2016 22:50

Tgt Ion:188 Resp: 640881  
Ion Ratio Lower Upper  
188 100  
94 12.4 9.2 13.8  
80 13.4 10.5 15.7



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: 2.73 ng

RT: 12.50 min Scan# 911

Delta R.T. -0.02 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

Instrument :

BNA\_F

ClientSampleId :

TP13-1.5FT

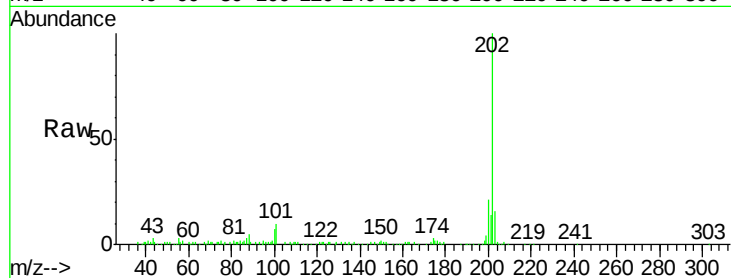
Tot Ion:202 Resp: 90571

Ion Ratio Lower Upper

202 100

101 9.7 0.0 29.5

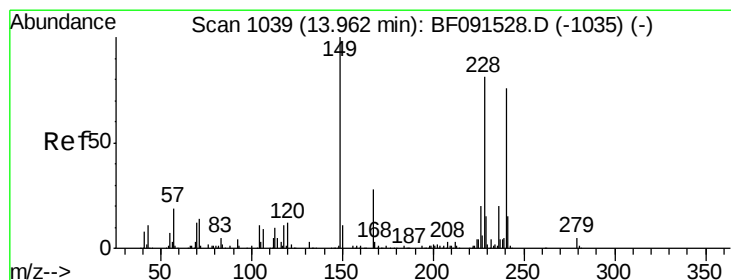
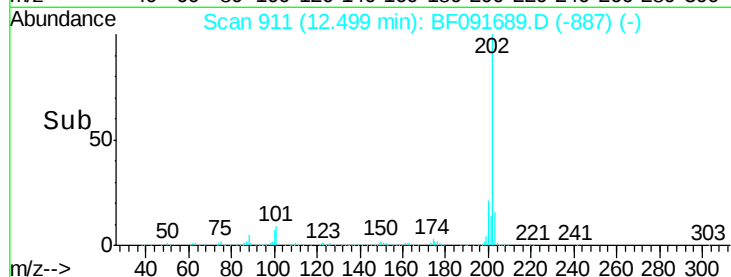
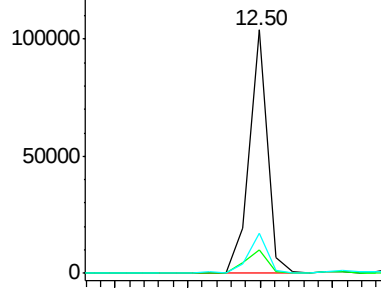
203 16.4 0.0 37.8



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: 13.92 min Scan# 1035

Delta R.T. -0.02 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

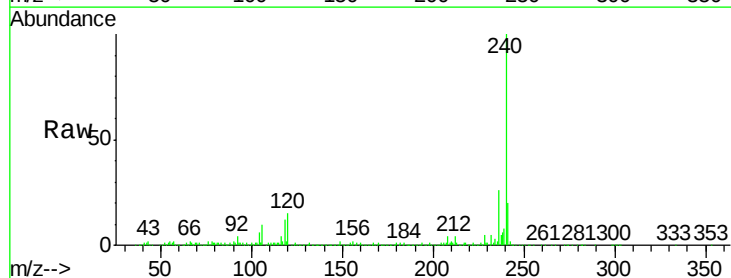
Tgt Ion:240 Resp: 375363

Ion Ratio Lower Upper

240 100

120 14.6 12.1 18.1

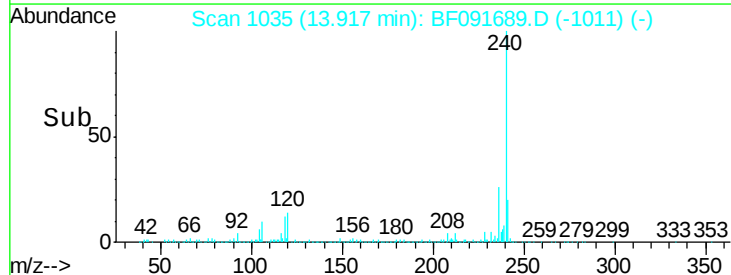
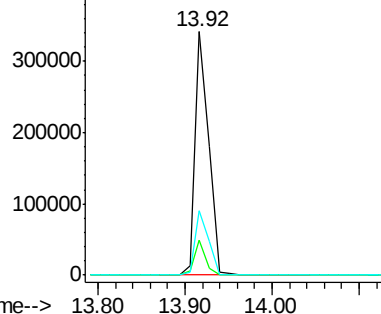
236 26.2 21.0 31.6

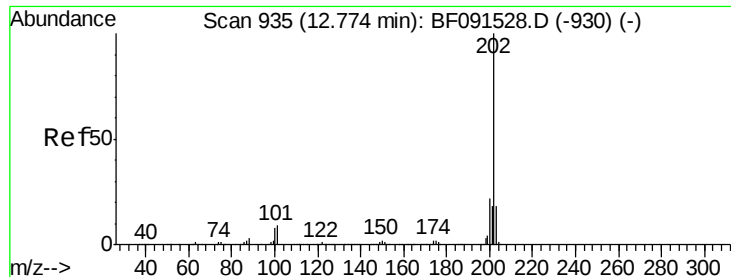


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 2.58 ng

RT: 12.73 min Scan# 931

Delta R.T. -0.01 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

Instrument :

BNA\_F

ClientSampleId :

TP13-1.5FT

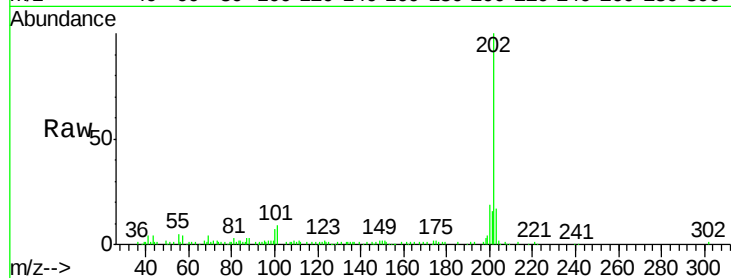
Tot Ion:202 Resp: 76833

Ion Ratio Lower Upper

202 100

200 19.3 17.6 26.4

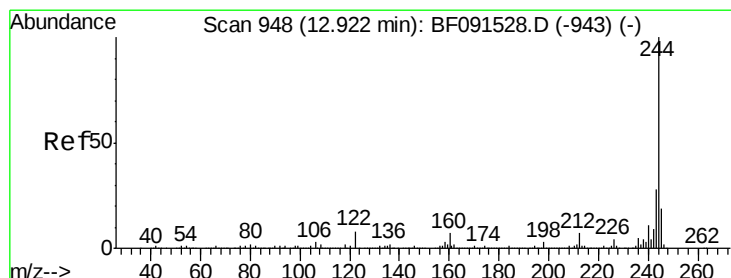
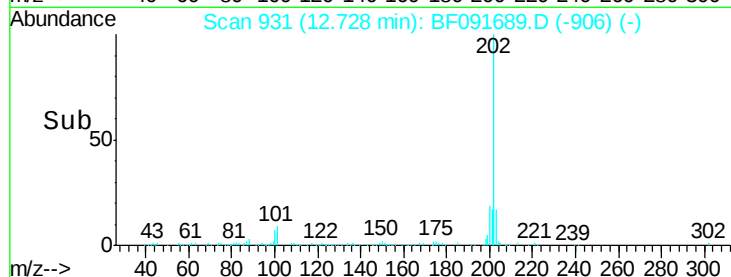
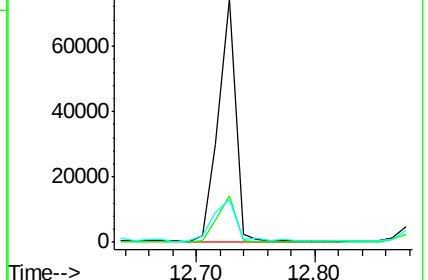
203 17.3 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 78.00 ng

RT: 12.88 min Scan# 944

Delta R.T. -0.02 min

Lab File: BF091689.D

Acq: 16 Dec 2016 22:50

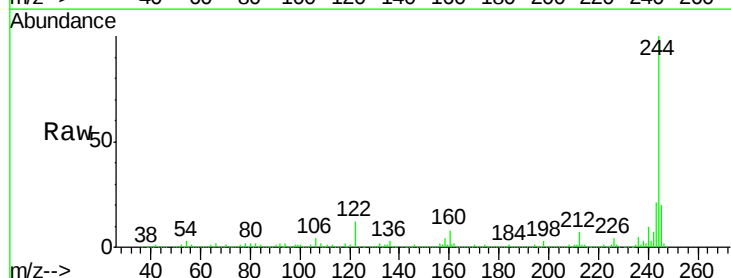
Tgt Ion:244 Resp: 1290252

Ion Ratio Lower Upper

244 100

212 7.2 6.5 9.7

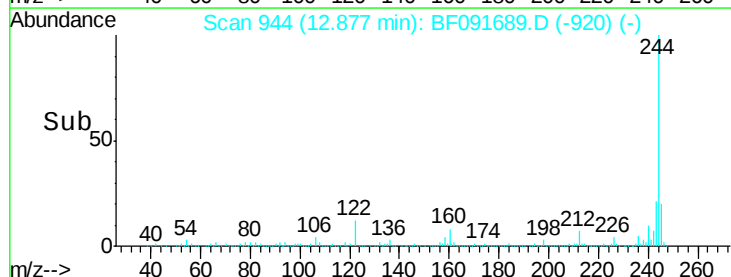
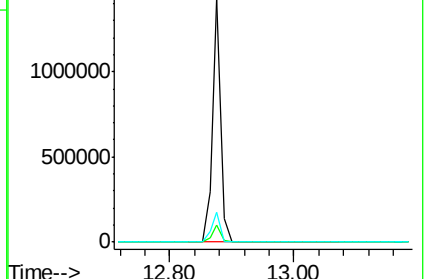
122 12.0 9.5 14.3

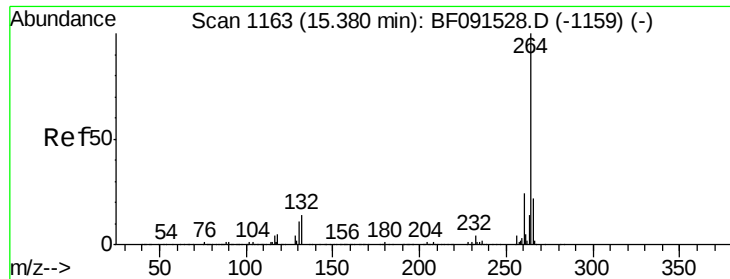


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

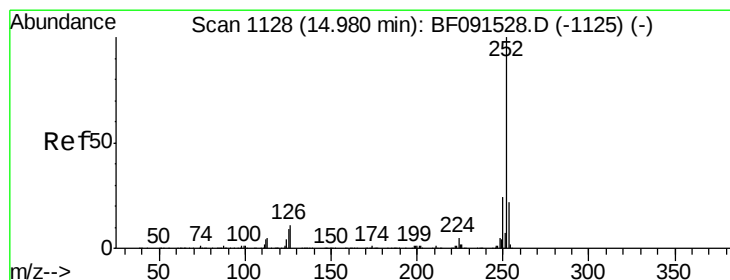
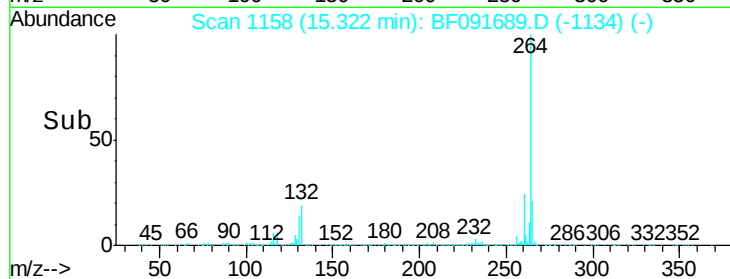
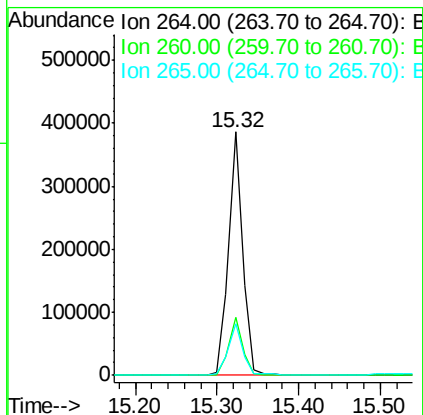
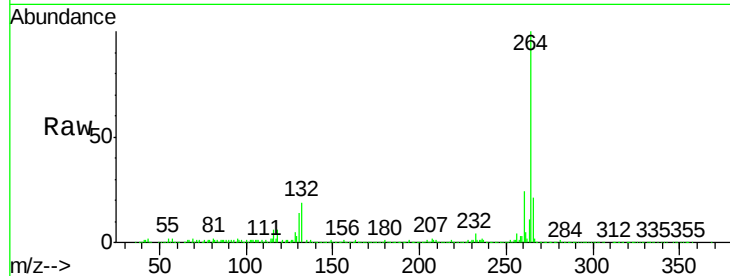




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.32 min Scan# 1158  
Delta R.T. -0.02 min  
Lab File: BF091689.D  
Acq: 16 Dec 2016 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
TP13-1.5FT

Tot Ion:264 Resp: 466169  
Ion Ratio Lower Upper  
264 100  
260 23.6 18.8 28.2  
265 21.3 17.0 25.6



#87  
Benzo(b)fluoranthene  
Concen: 2.64 ng m  
RT: 14.92 min Scan# 1123  
Delta R.T. -0.02 min  
Lab File: BF091689.D  
Acq: 16 Dec 2016 22:50

Tgt Ion:252 Resp: 73390  
Ion Ratio Lower Upper  
252 100  
253 25.3 18.2 27.2  
125 16.6 8.6 13.0#

