

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040216\  
 Data File : BF086029.D  
 Acq On : 2 Apr 2016 23:30  
 Operator : UM/SJ  
 Sample : H1970-13  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

Quant Time: Apr 04 04:08:51 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 01 23:17:06 2016  
 Response via : Initial Calibration

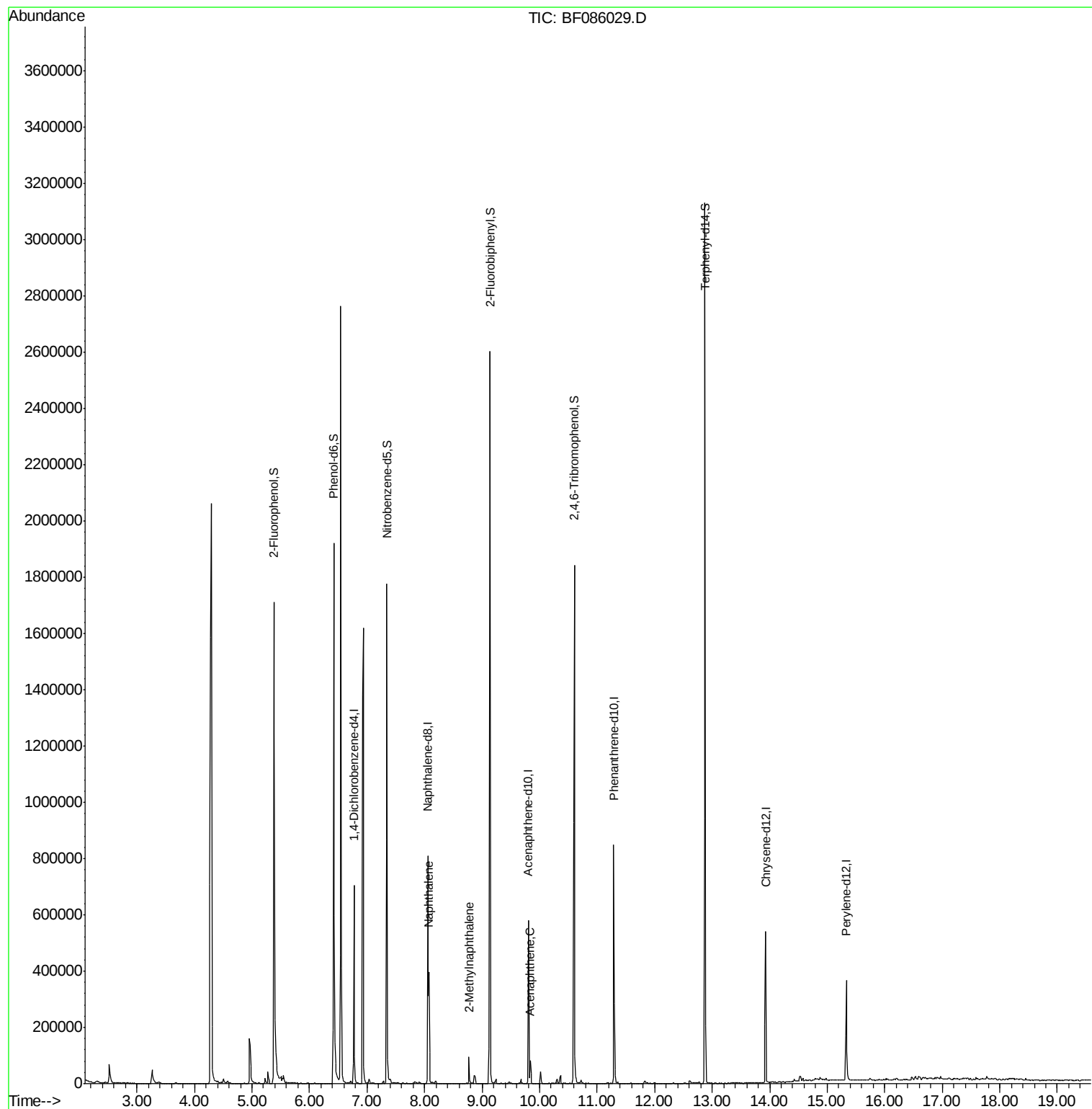
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 103964   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.05  | 136  | 392033   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.80  | 164  | 166917   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.29 | 188  | 320603   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.93 | 240  | 202859   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.33 | 264  | 154054   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.38  | 112  | 762358   | 125.34 | ng    | 0.01     |
| 7) Phenol-d6                | 6.42  | 99   | 815579   | 105.57 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.34  | 82   | 697192   | 104.88 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 277542   | 177.15 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 1149470  | 114.50 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.88 | 244  | 974940   | 112.97 | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.08  | 128  | 185319   | 9.40   | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.77  | 142  | 26843    | 2.08   | ng    | 97       |
| 51) Acenaphthene            | 9.84  | 154  | 21766    | 2.19   | ng    | 98       |

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040216\  
Data File : BF086029.D  
Acq On : 2 Apr 2016 23:30  
Operator : UM/SJ  
Sample : H1970-13  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

Quant Time: Apr 04 04:08:51 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 01 23:17:06 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

Instrument :

BNA\_F

ClientSampleId :

TP-10

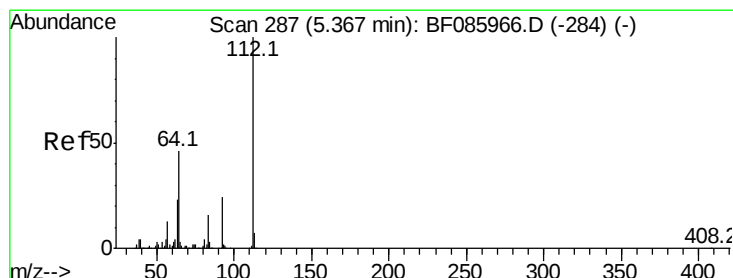
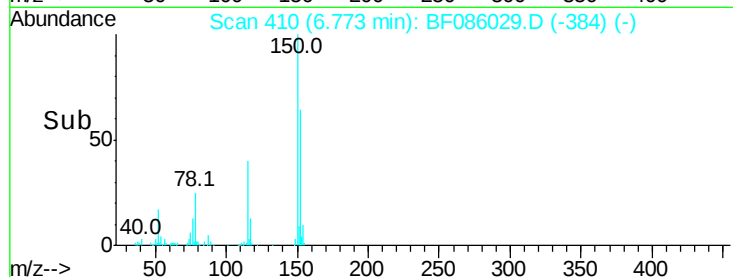
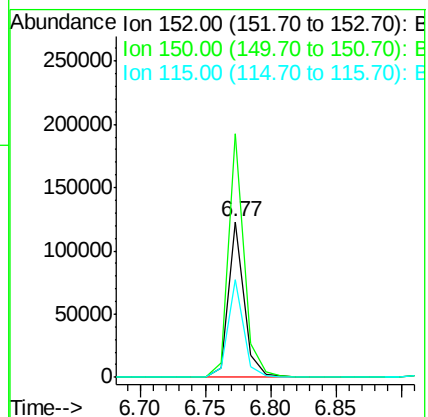
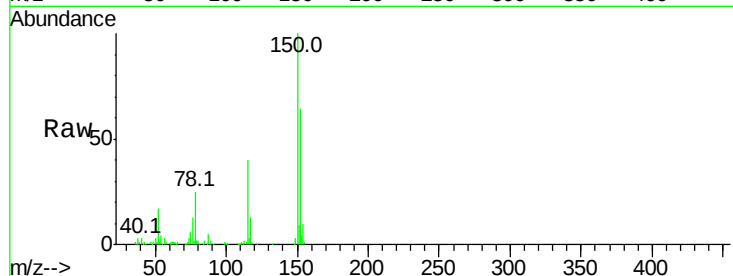
Tot Ion:152 Resp: 103964

Ion Ratio Lower Upper

152 100

150 156.8 124.2 186.2

115 63.1 47.0 70.6



#5

2-Fluorophenol

Concen: 125.34 ng

RT: 5.38 min Scan# 288

Delta R.T. 0.01 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

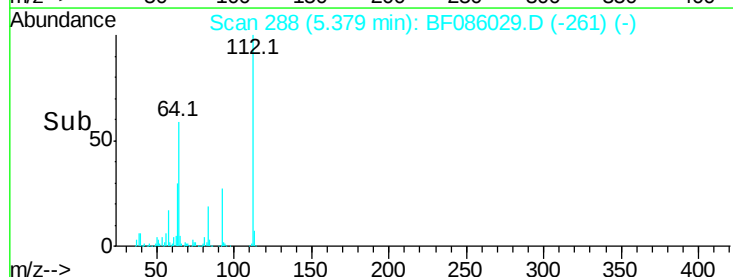
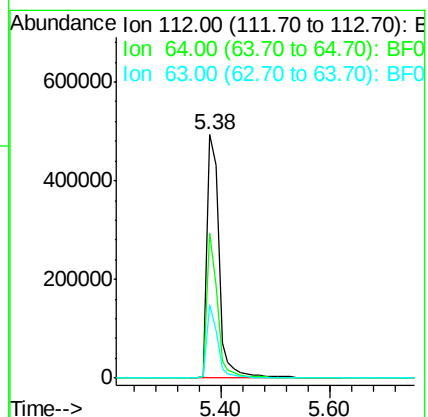
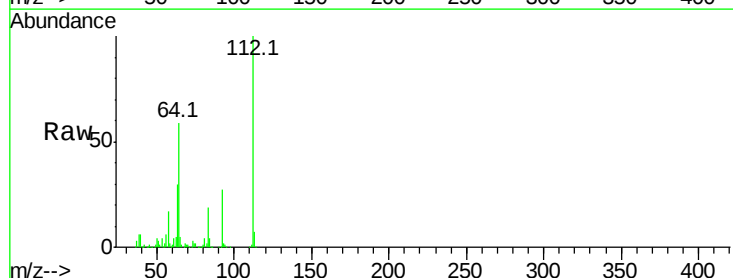
Tgt Ion:112 Resp: 762358

Ion Ratio Lower Upper

112 100

64 59.4 39.9 59.9

63 29.9 20.2 30.2





#7

Phenol-d6

Concen: 105.57 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

Instrument :

BNA\_F

ClientSampled :

TP-10

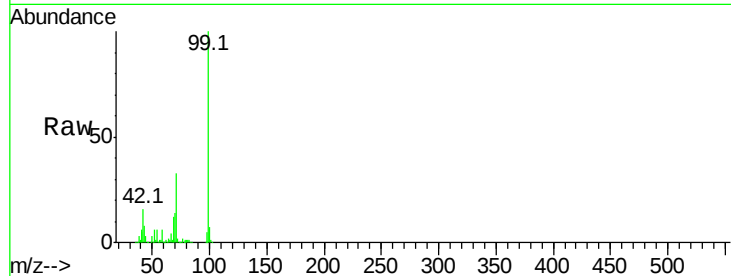
Tot Ion: 99 Resp: 815579

Ion Ratio Lower Upper

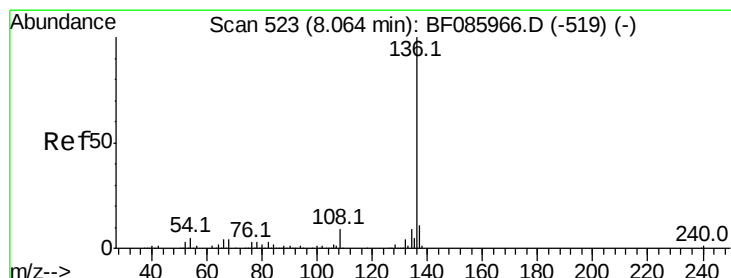
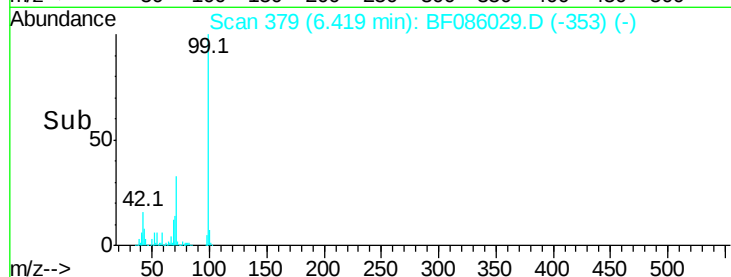
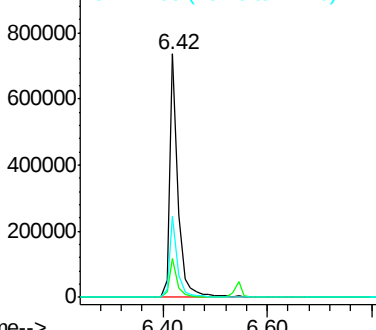
99 100

42 15.7 11.1 16.7

71 33.2 24.9 37.3



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: 8.05 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

Tgt Ion: 136 Resp: 392033

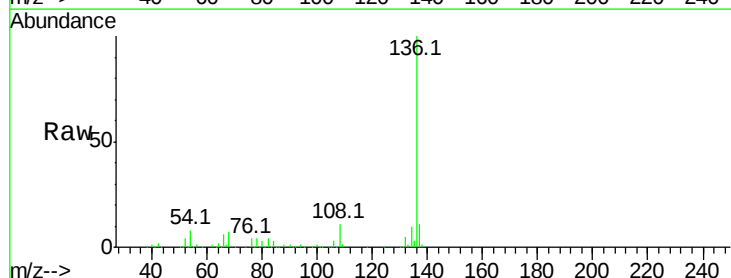
Ion Ratio Lower Upper

136 100

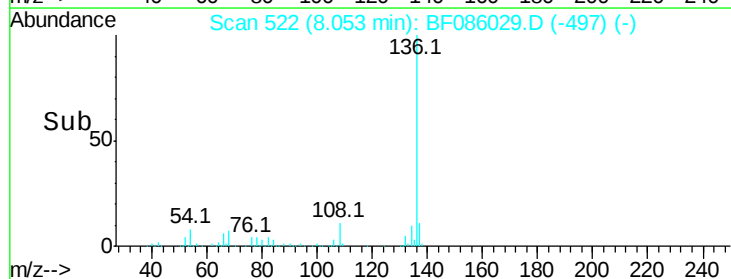
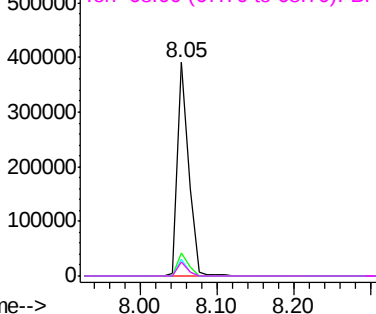
137 11.1 9.1 13.7

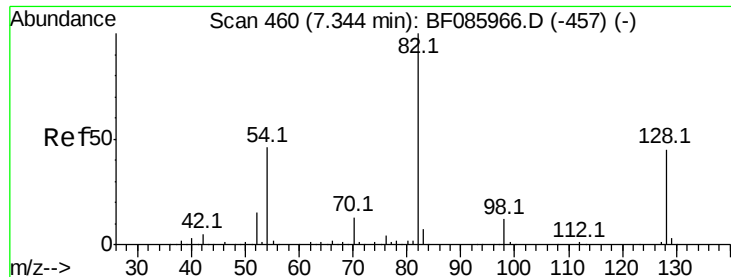
54 8.1 7.4 11.0

68 6.5 5.8 8.8



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

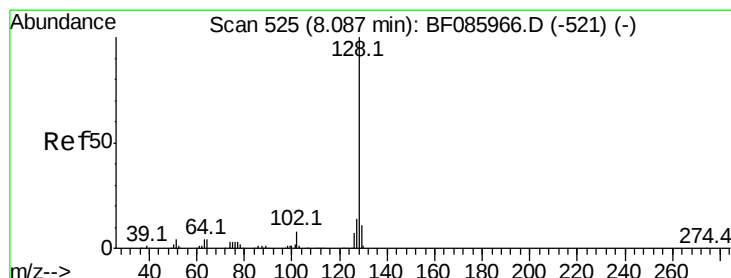
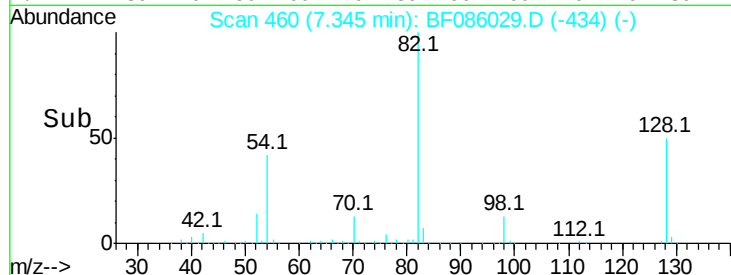
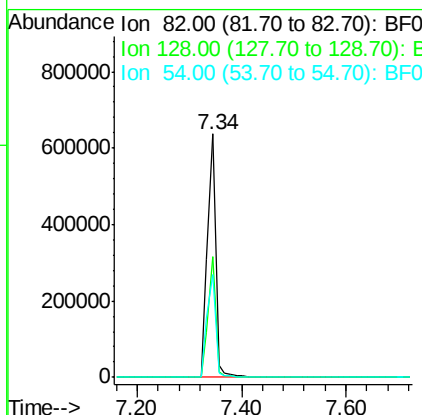
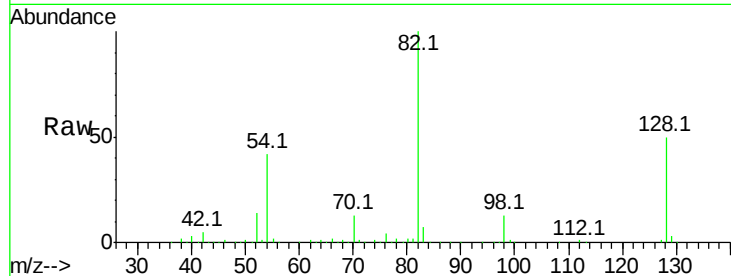




#23  
 Nitrobenzene-d5  
 Concen: 104.88 ng  
 RT: 7.34 min Scan# 460  
 Delta R.T. 0.00 min  
 Lab File: BF086029.D  
 Acq: 2 Apr 2016 23:30

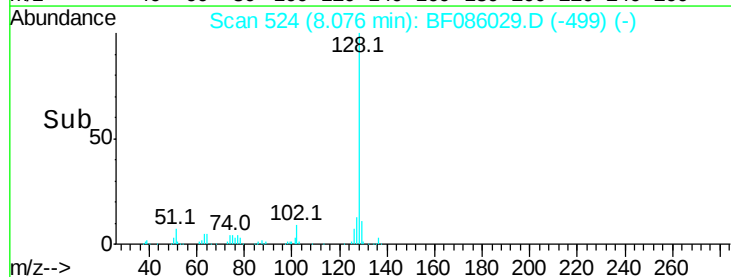
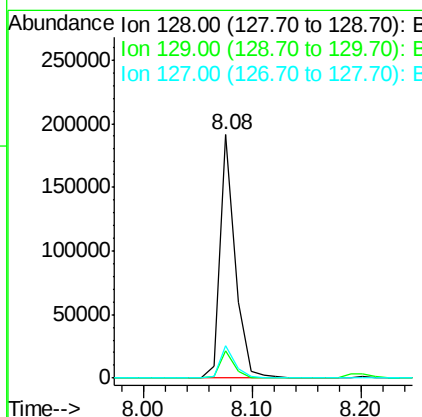
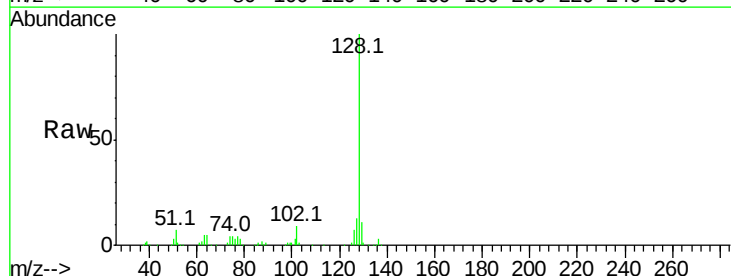
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

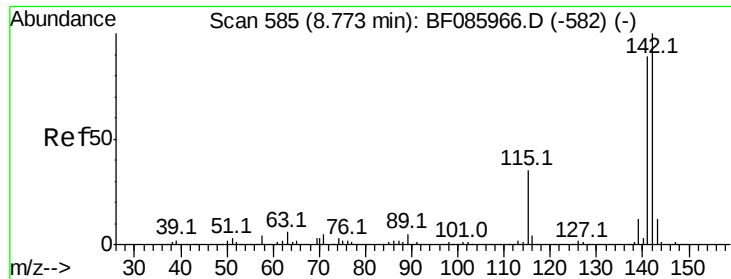
Tot Ion: 82 Resp: 697192  
 Ion Ratio Lower Upper  
 82 100  
 128 49.6 41.8 62.8  
 54 42.3 33.4 50.0



#31  
 Naphthalene  
 Concen: 9.40 ng  
 RT: 8.08 min Scan# 524  
 Delta R.T. -0.01 min  
 Lab File: BF086029.D  
 Acq: 2 Apr 2016 23:30

Tgt Ion: 128 Resp: 185319  
 Ion Ratio Lower Upper  
 128 100  
 129 11.0 9.4 14.0  
 127 13.2 11.0 16.6

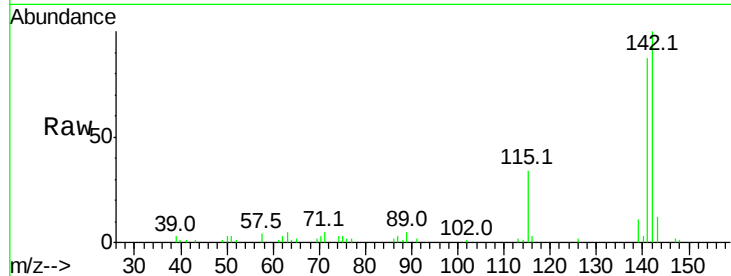




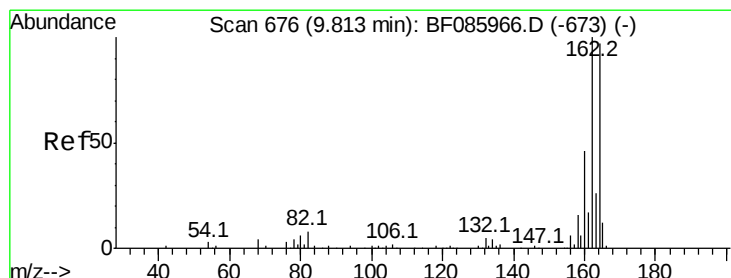
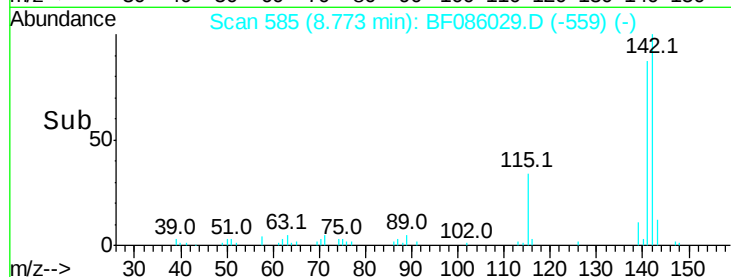
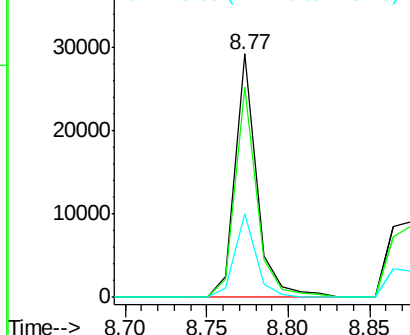
#37  
2-Methylnaphthalene  
Concen: 2.08 ng  
RT: 8.77 min Scan# 585  
Delta R.T. 0.00 min  
Lab File: BF086029.D  
Acq: 2 Apr 2016 23:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

Tot Ion:142 Resp: 26843  
Ion Ratio Lower Upper  
142 100  
141 86.5 71.6 107.4  
115 34.3 26.8 40.2

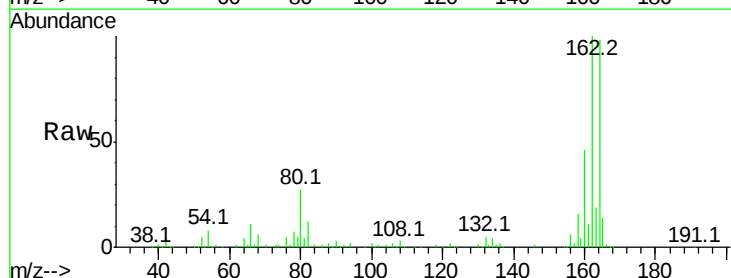


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

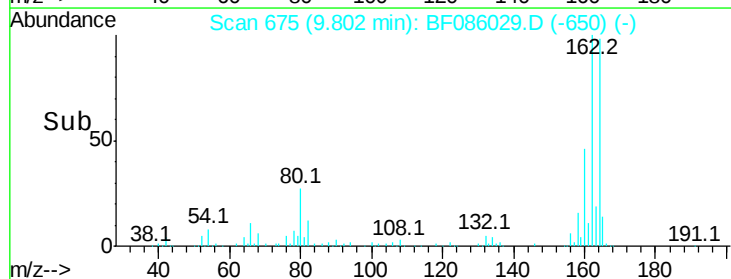
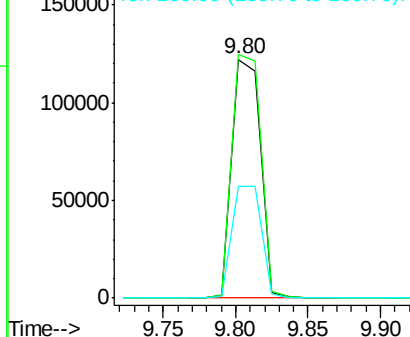


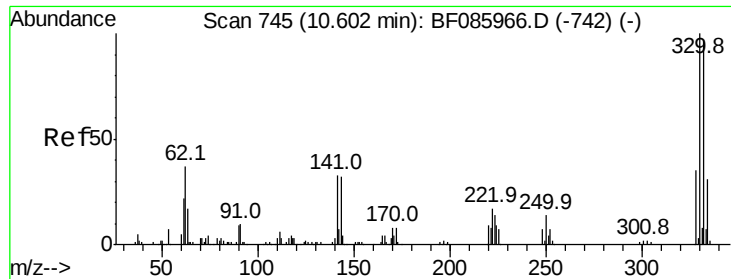
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.80 min Scan# 675  
Delta R.T. -0.01 min  
Lab File: BF086029.D  
Acq: 2 Apr 2016 23:30

Tgt Ion:164 Resp: 166917  
Ion Ratio Lower Upper  
164 100  
162 101.8 82.1 123.1  
160 46.8 37.4 56.2



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

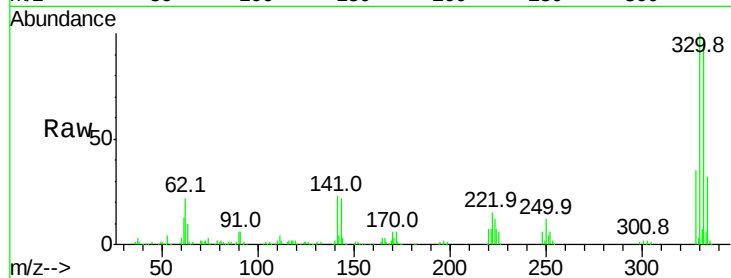




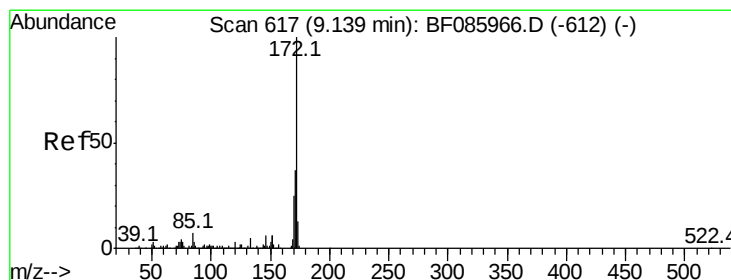
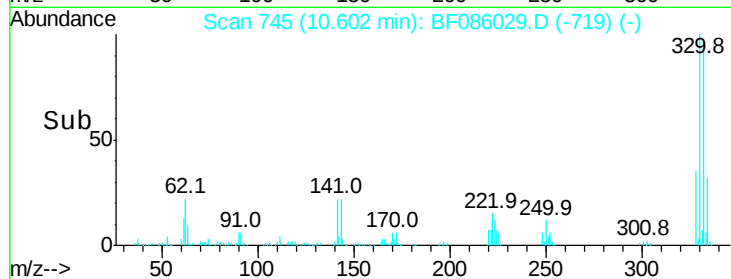
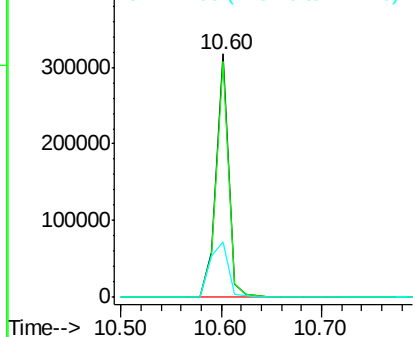
#41  
 2,4,6-Tribromophenol  
 Concen: 177.15 ng  
 RT: 10.60 min Scan# 745  
 Delta R.T. 0.00 min  
 Lab File: BF086029.D  
 Acq: 2 Apr 2016 23:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

Tot Ion:330 Resp: 277542  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 78.2 117.2  
 141 33.3 31.5 47.3

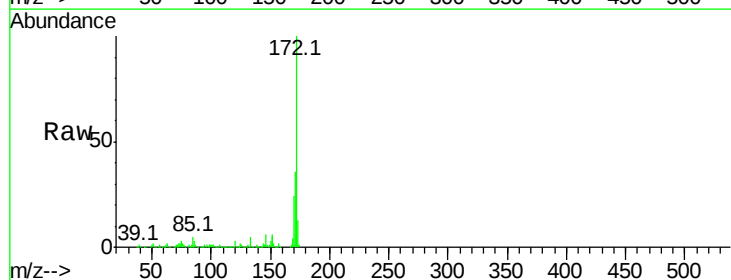


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

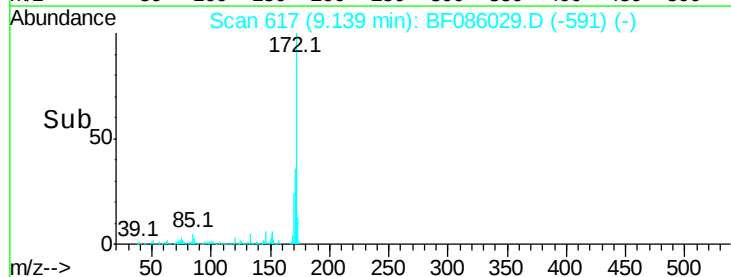
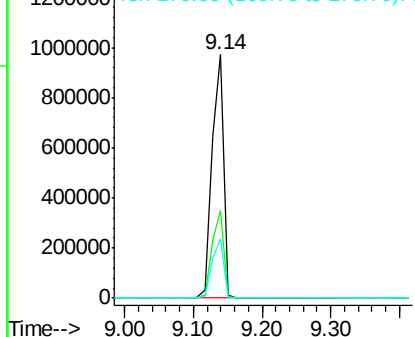


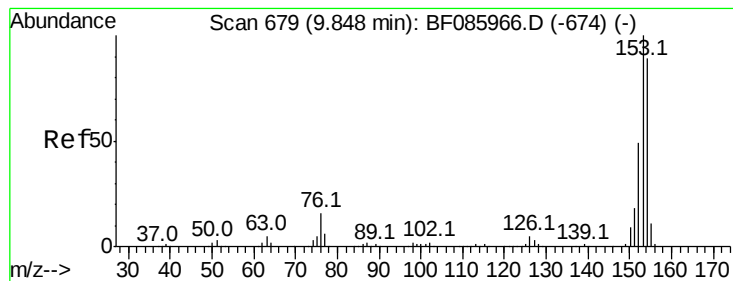
#44  
 2-Fluorobiphenyl  
 Concen: 114.50 ng  
 RT: 9.14 min Scan# 617  
 Delta R.T. 0.00 min  
 Lab File: BF086029.D  
 Acq: 2 Apr 2016 23:30

Tgt Ion:172 Resp: 1149470  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.4 44.2  
 170 24.3 19.8 29.6



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





#51

Acenaphthene

Concen: 2.19 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

Instrument :

BNA\_F

ClientSampleId :

TP-10

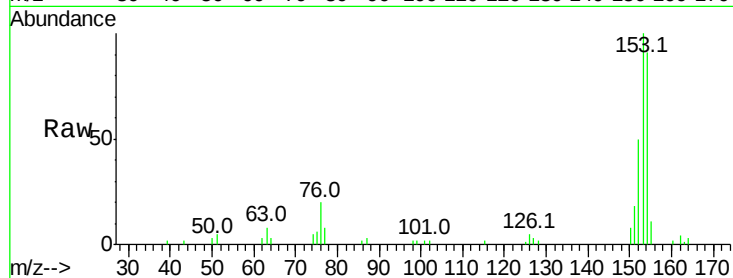
Tot Ion:154 Resp: 21766

Ion Ratio Lower Upper

154 100

153 109.8 90.1 135.1

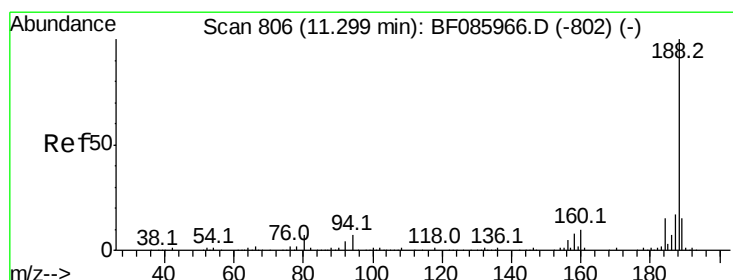
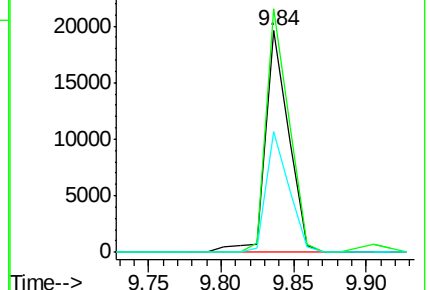
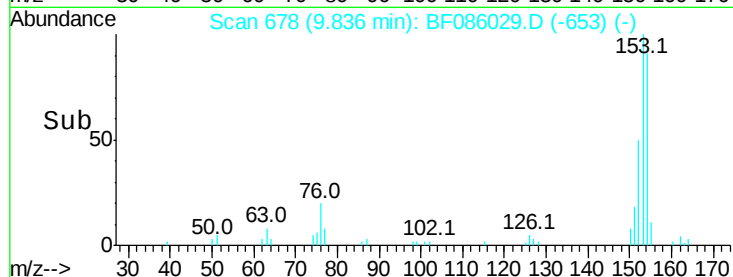
152 54.5 44.2 66.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 805

Delta R.T. -0.01 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

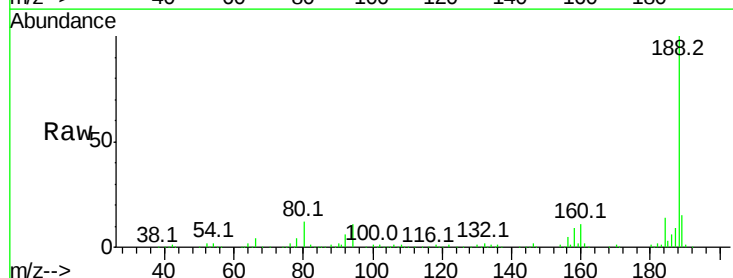
Tgt Ion:188 Resp: 320603

Ion Ratio Lower Upper

188 100

94 11.5 5.4 8.0#

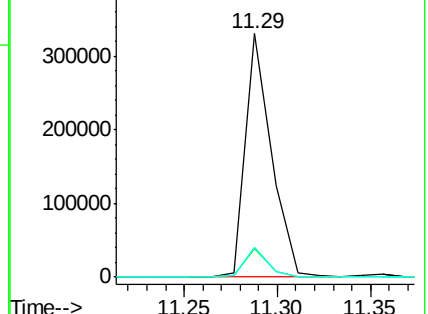
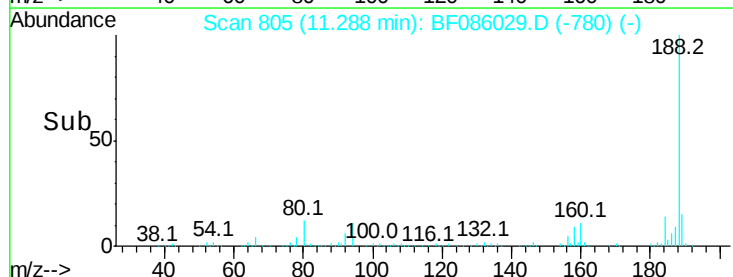
80 12.4 5.5 8.3#

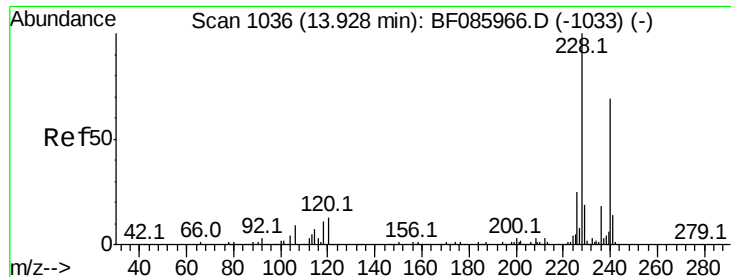


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

Instrument :

BNA\_F

ClientSampled :

TP-10

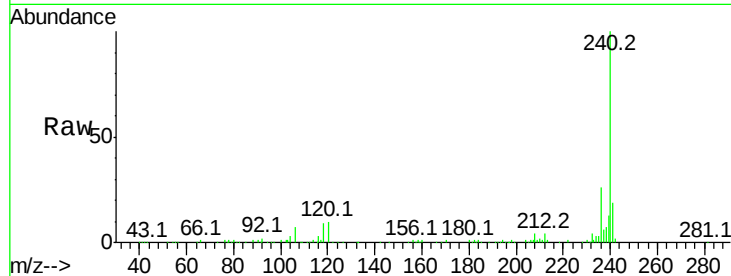
Tot Ion:240 Resp: 202859

Ion Ratio Lower Upper

240 100

120 9.8 13.8 20.8#

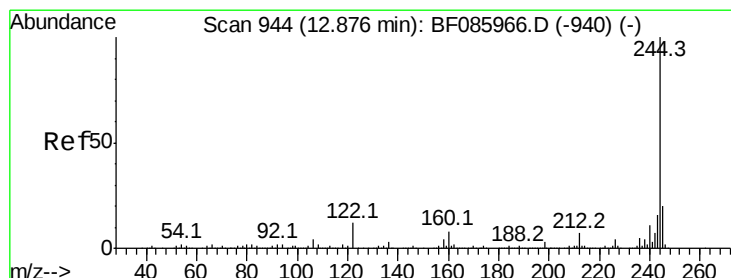
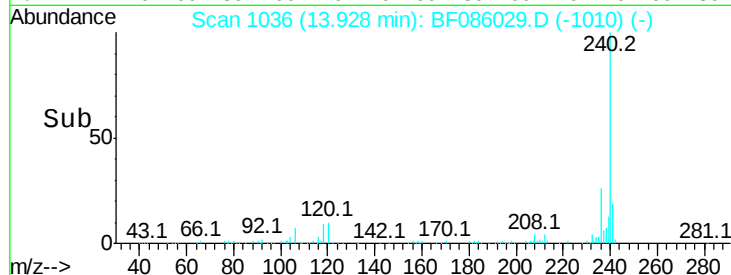
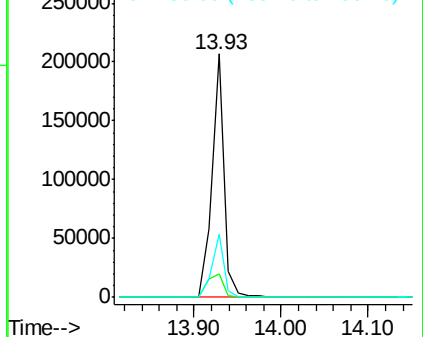
236 26.1 20.6 30.8



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: 112.97 ng

RT: 12.88 min Scan# 944

Delta R.T. 0.00 min

Lab File: BF086029.D

Acq: 2 Apr 2016 23:30

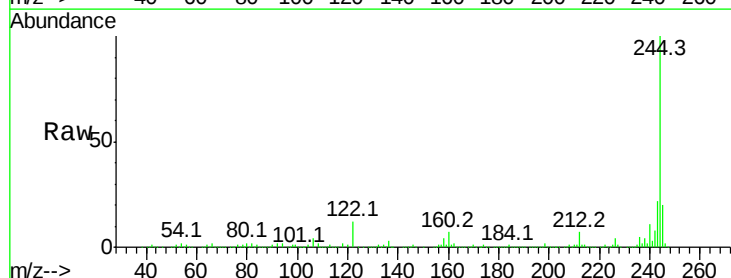
Tgt Ion:244 Resp: 974940

Ion Ratio Lower Upper

244 100

212 7.3 6.1 9.1

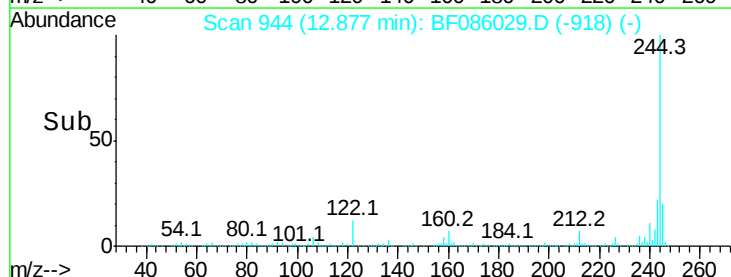
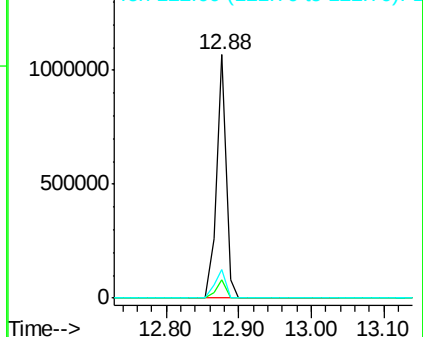
122 11.5 10.2 15.4

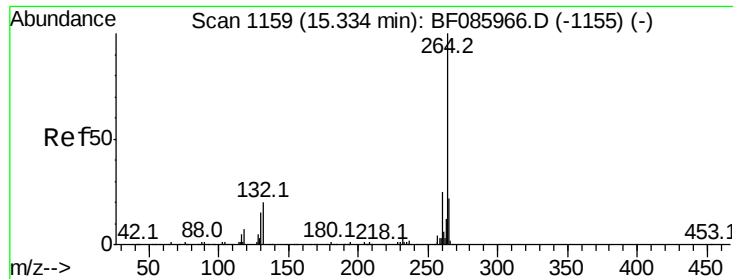


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.33 min Scan# 1159  
Delta R.T. 0.00 min  
Lab File: BF086029.D  
Acq: 2 Apr 2016 23:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 154054 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.8  | 19.4  | 29.2   |
| 265      | 20.6  | 17.2  | 25.8   |

