

Data Path : Z:\HPCHEM1\BNA F\DATA\BF043016\  
 Data File : BF086515.D  
 Acq On : 30 Apr 2016 11:12  
 Operator : UM/SJ  
 Sample : PB90053BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 01 01:19:05 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun May 01 01:17:37 2016  
 Response via : Initial Calibration

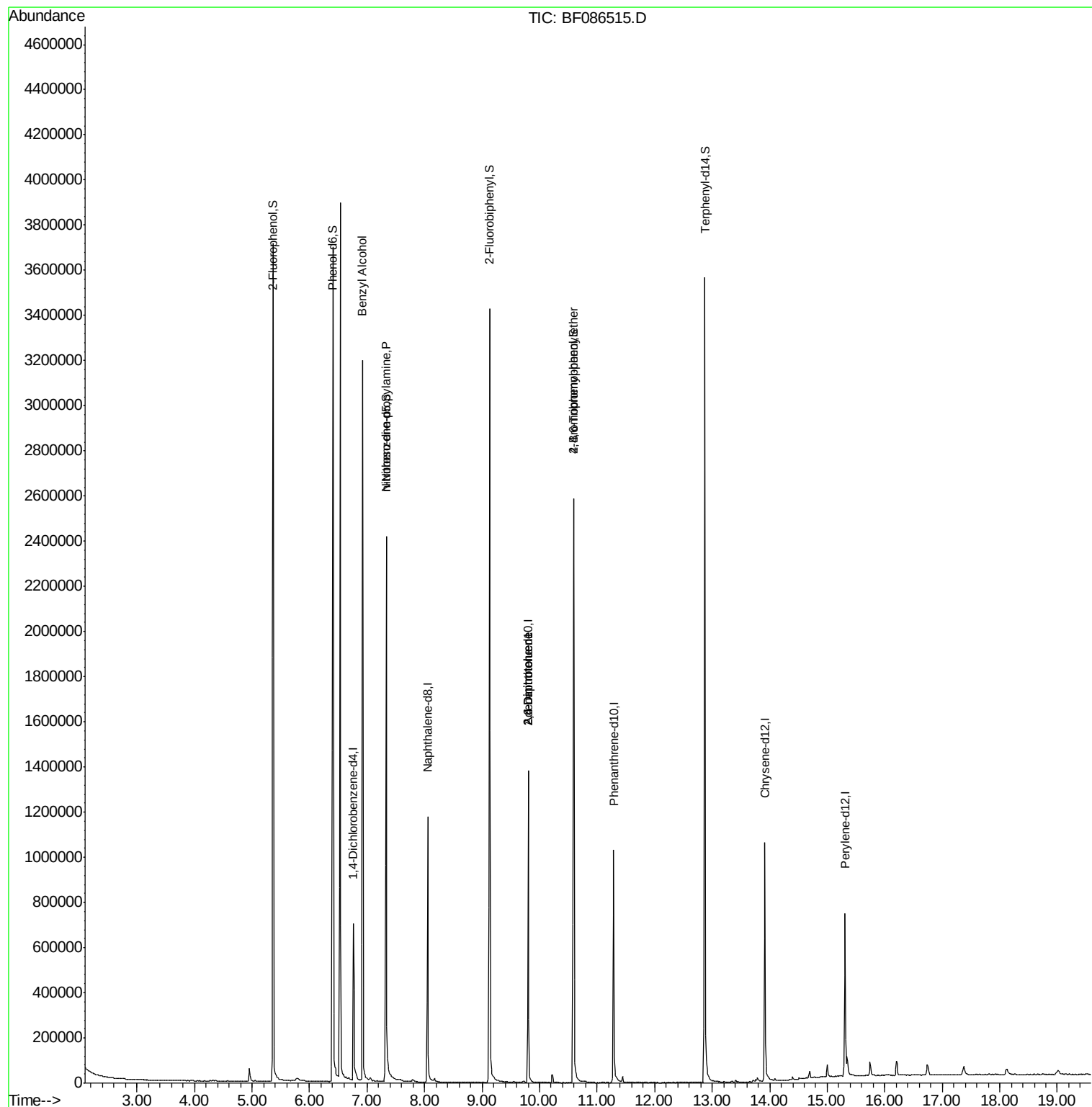
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.76  | 152  | 129436   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.05  | 136  | 584212   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.80  | 164  | 279956   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.29 | 188  | 564920   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.92 | 240  | 502372   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.31 | 264  | 383895   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.37  | 112  | 1053582  | 140.40 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.41  | 99   | 1295177  | 123.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.33  | 82   | 901923   | 83.21  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.59 | 330  | 317737   | 107.62 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.13  | 172  | 1392173  | 87.60  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.88 | 244  | 1557917  | 68.32  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 6.92  | 79   | 14384    | 2.17   | ng    | # 41     |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 118746   | 17.15  | ng    | # 78     |
| 50) 2,6-Dinitrotoluene         | 9.80  | 165  | 35353    | 8.12   | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 9.80  | 165  | 35356    | 6.37   | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.59 | 248  | 19071    | 3.28   | ng    | # 1      |

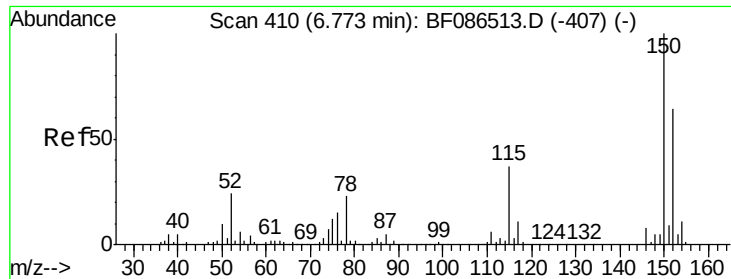
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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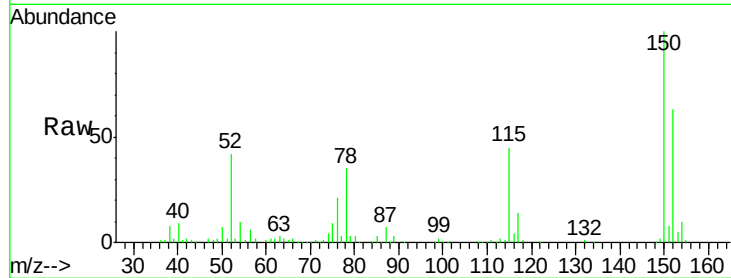


#1

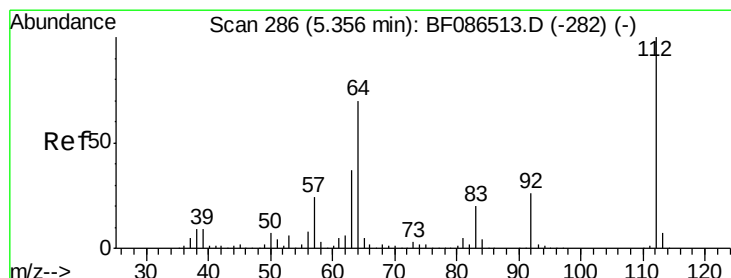
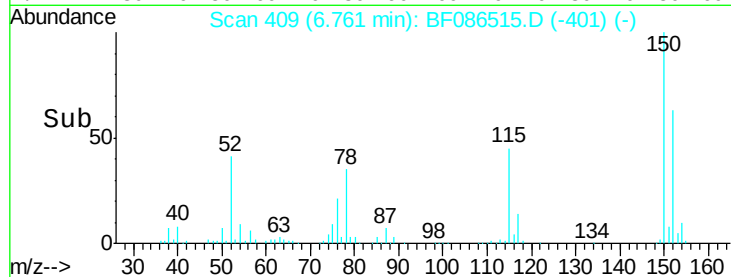
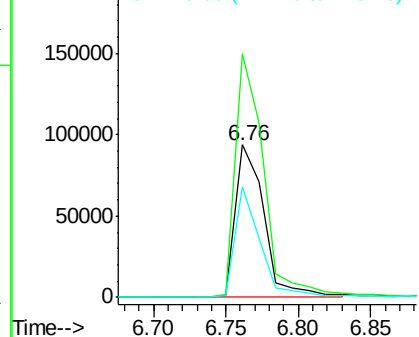
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.76 min Scan# 409  
Delta R.T. -0.01 min  
Lab File: BF086515.D  
Acq: 30 Apr 2016 11:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 129436  
Ion Ratio Lower Upper  
152 100  
150 159.7 125.8 188.6  
115 72.4 51.5 77.3



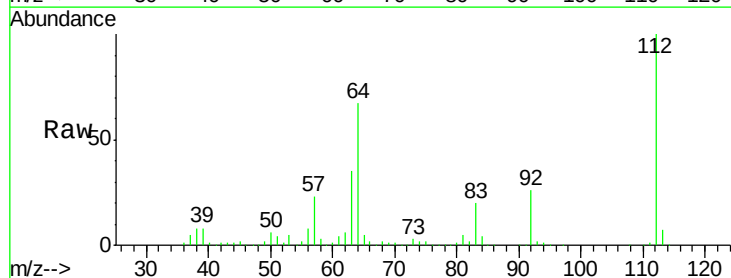
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



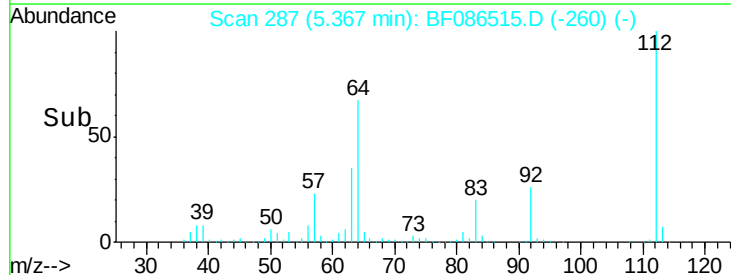
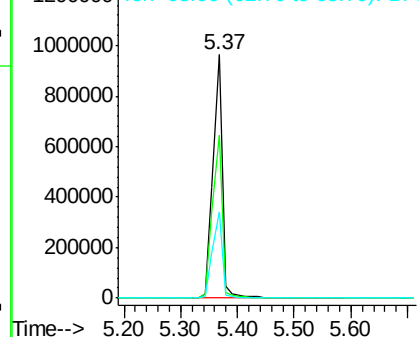
#5

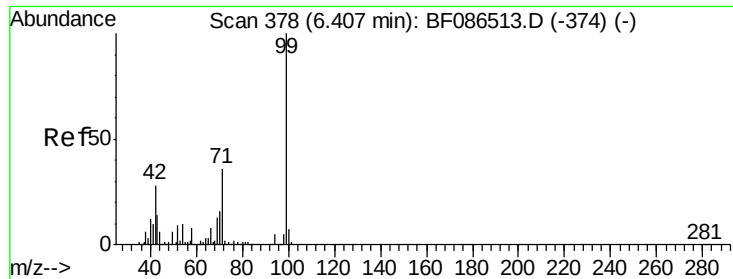
2-Fluorophenol  
Concen: 140.40 ng  
RT: 5.37 min Scan# 287  
Delta R.T. 0.01 min  
Lab File: BF086515.D  
Acq: 30 Apr 2016 11:12

Tgt Ion:112 Resp: 1053582  
Ion Ratio Lower Upper  
112 100  
64 66.7 52.1 78.1  
63 35.3 25.7 38.5



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: 123.66 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.00 min

Lab File: BF086515.D

Acq: 30 Apr 2016 11:12

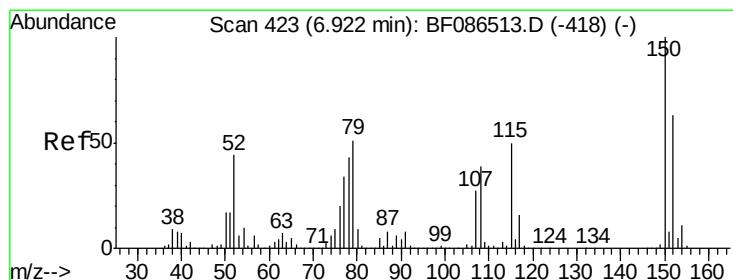
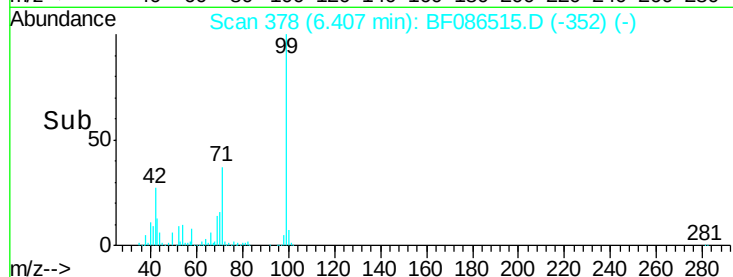
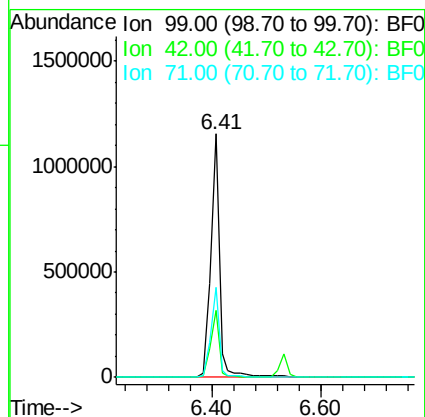
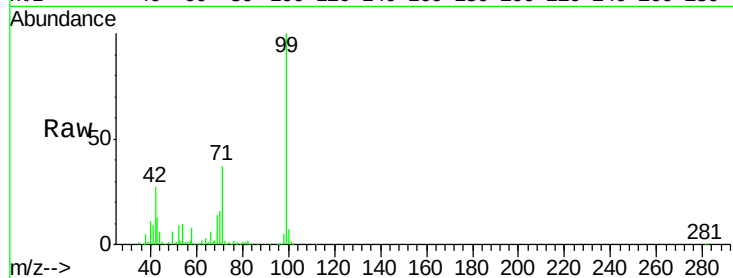
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1295177

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 27.4  | 13.6  | 20.4# |
| 71  | 36.8  | 24.6  | 36.8  |



#15

Benzyl Alcohol

Concen: 2.17 ng

RT: 6.92 min Scan# 423

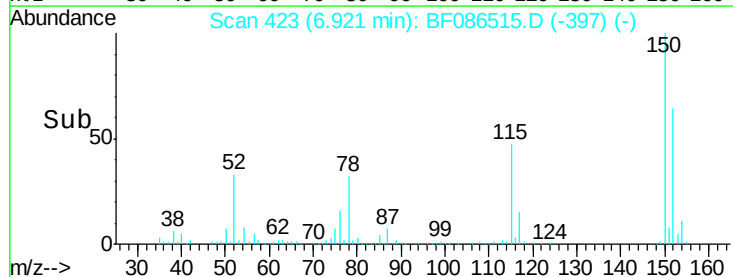
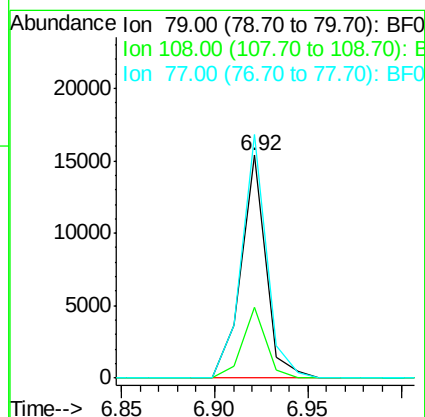
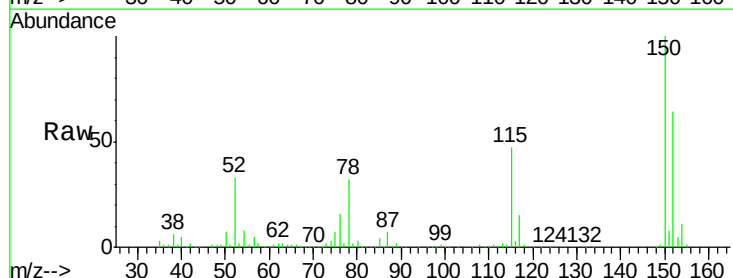
Delta R.T. -0.00 min

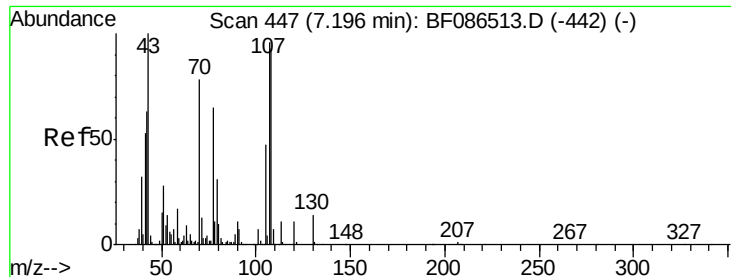
Lab File: BF086515.D

Acq: 30 Apr 2016 11:12

Tgt Ion: 79 Resp: 14384

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 79  | 100   |       |        |
| 108 | 31.7  | 68.4  | 102.6# |
| 77  | 109.2 | 50.6  | 76.0#  |

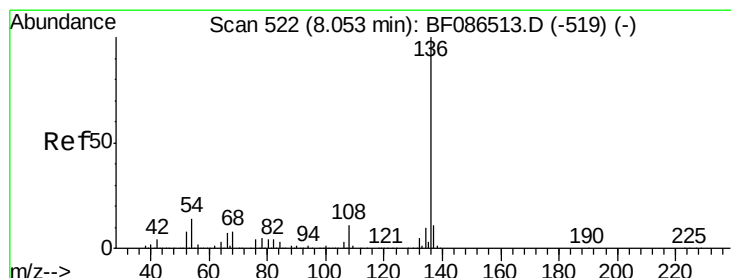
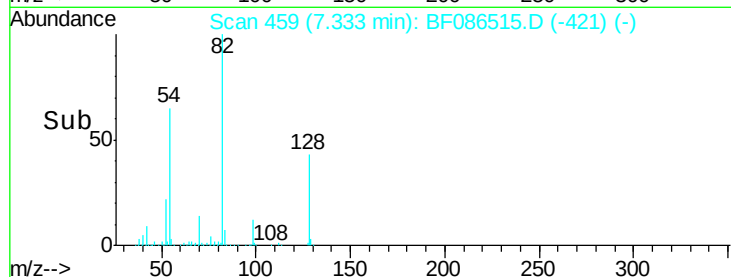
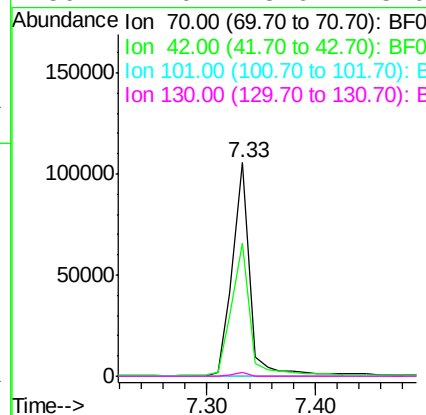
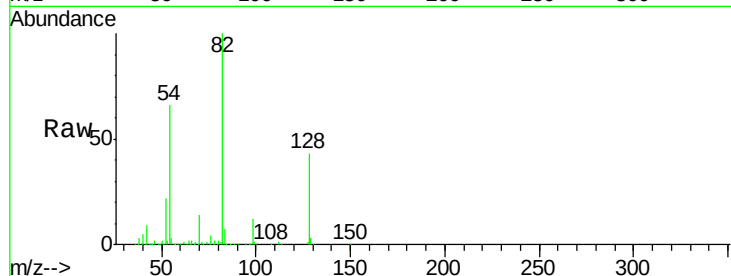




#19  
 n-Nitroso-di-n-propylamine  
 Concen: 17.15 ng  
 RT: 7.33 min Scan# 459  
 Delta R.T. 0.14 min  
 Lab File: BF086515.D  
 Acq: 30 Apr 2016 11:12

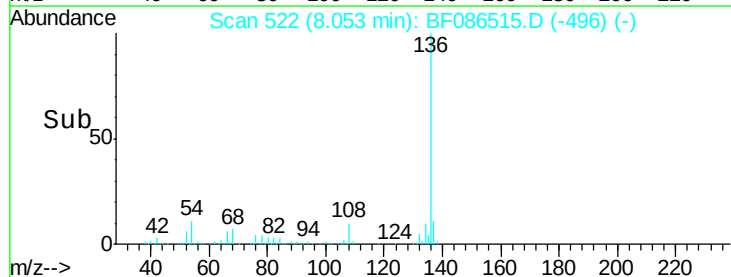
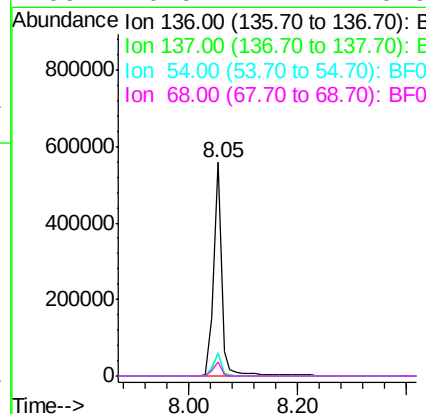
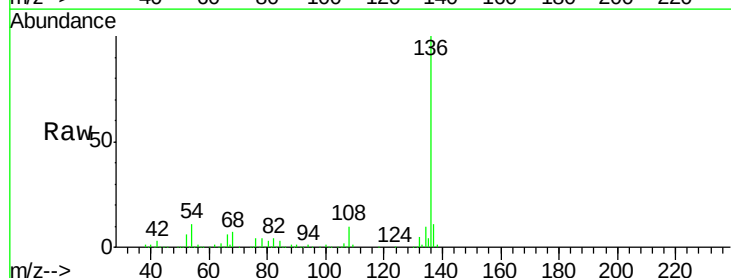
Instrument :  
 BNA\_F  
 ClientSampleId :

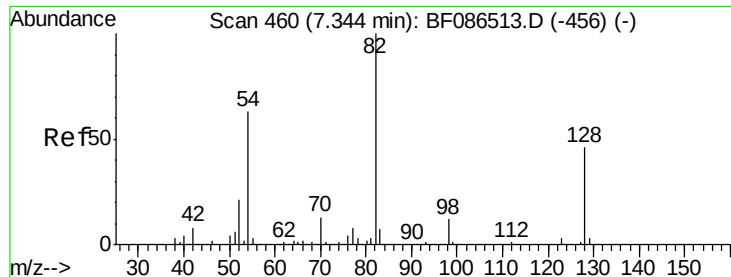
Tot Ion: 70 Resp: 118746  
 Ion Ratio Lower Upper  
 70 100  
 42 62.2 43.1 64.7  
 101 0.0 8.1 12.1#  
 130 2.0 18.6 28.0#



#21  
 Naphthalene-d8  
 Concen: 20.00 ng  
 RT: 8.05 min Scan# 522  
 Delta R.T. -0.00 min  
 Lab File: BF086515.D  
 Acq: 30 Apr 2016 11:12

Tgt Ion: 136 Resp: 584212  
 Ion Ratio Lower Upper  
 136 100  
 137 10.8 8.8 13.2  
 54 10.7 5.0 7.4#  
 68 6.5 4.4 6.6

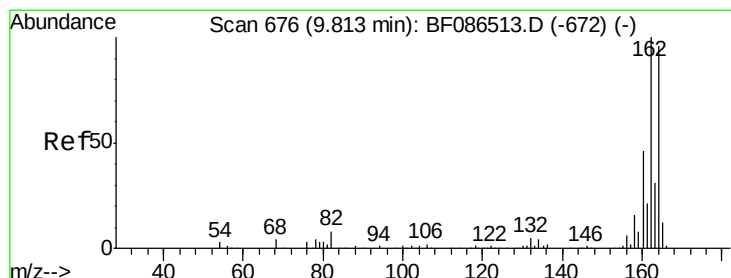
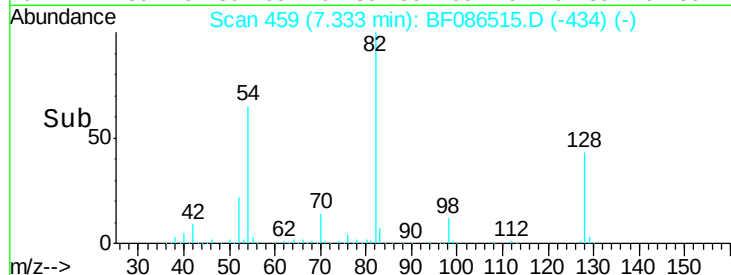
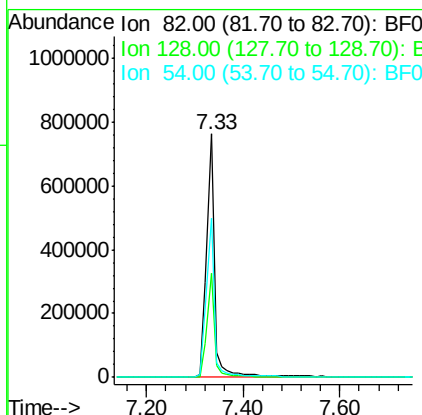
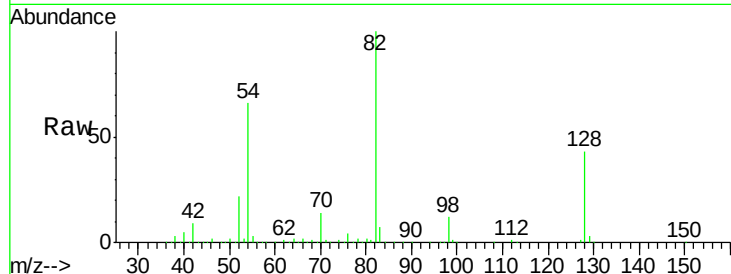




#23  
 Nitrobenzene-d5  
 Concen: 83.21 ng  
 RT: 7.33 min Scan# 459  
 Delta R.T. -0.01 min  
 Lab File: BF086515.D  
 Acq: 30 Apr 2016 11:12

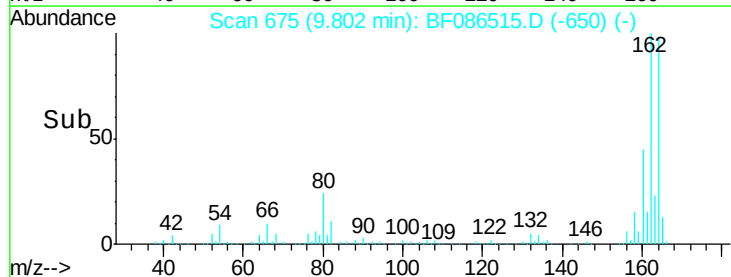
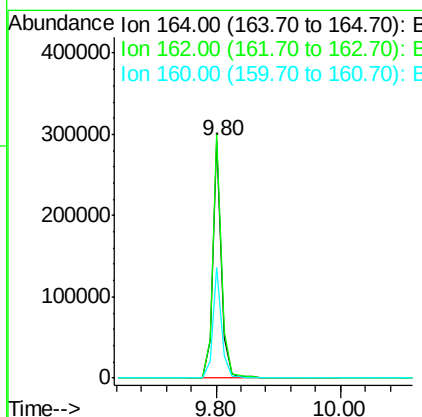
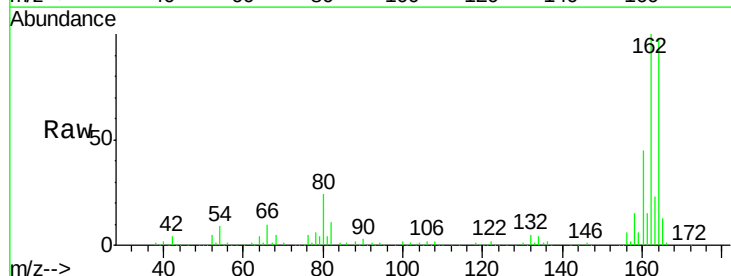
Instrument :  
 BNA\_F  
 ClientSampleId :

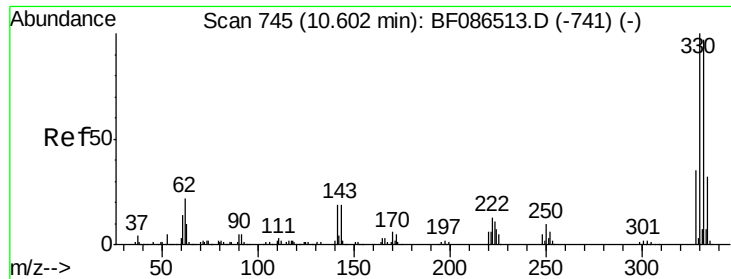
Tot Ion: 82 Resp: 901923  
 Ion Ratio Lower Upper  
 82 100  
 128 42.8 40.6 61.0  
 54 65.5 38.1 57.1#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.80 min Scan# 675  
 Delta R.T. -0.01 min  
 Lab File: BF086515.D  
 Acq: 30 Apr 2016 11:12

Tgt Ion:164 Resp: 279956  
 Ion Ratio Lower Upper  
 164 100  
 162 102.4 82.8 124.2  
 160 46.5 36.9 55.3

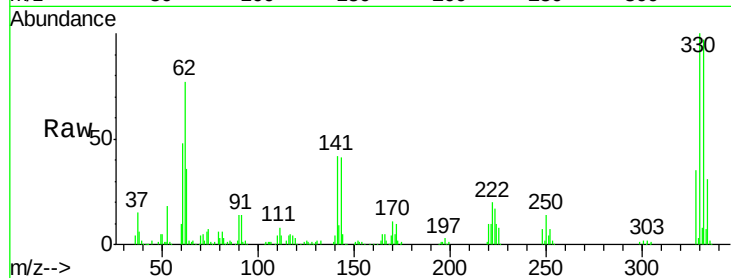




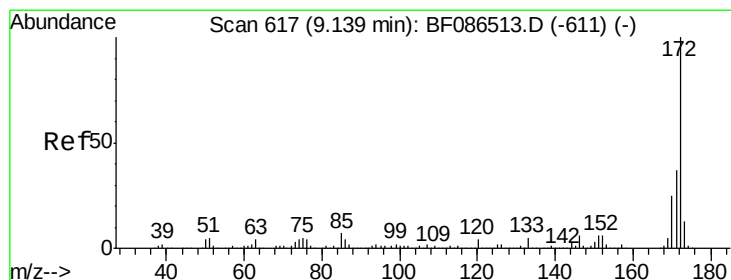
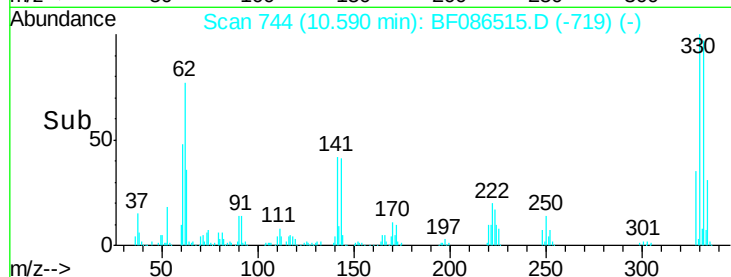
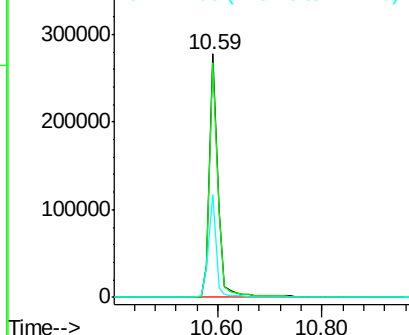
#41  
 2,4,6-Tribromophenol  
 Concen: 107.62 ng  
 RT: 10.59 min Scan# 744  
 Delta R.T. -0.01 min  
 Lab File: BF086515.D  
 Acq: 30 Apr 2016 11:12

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.3  | 79.0  | 118.4 |
| 141     | 38.5  | 31.2  | 46.8  |

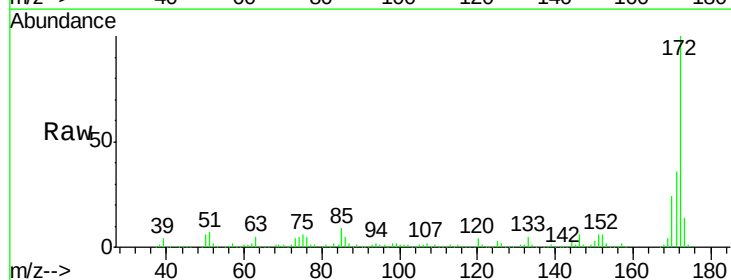


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

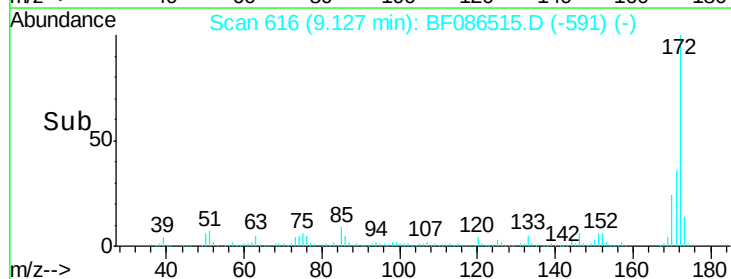
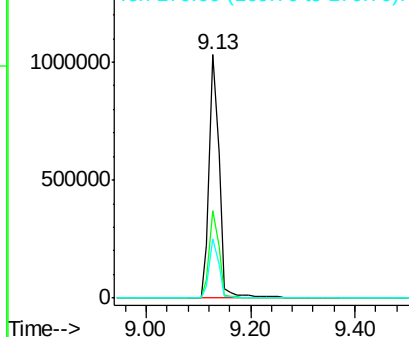


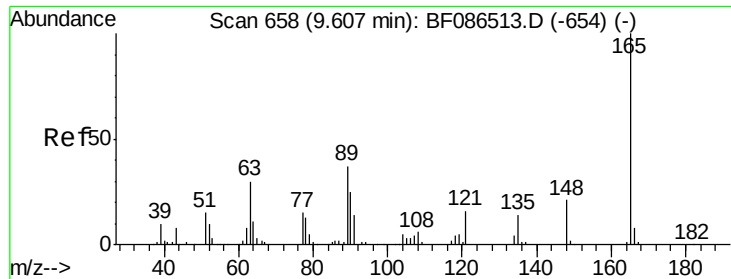
#44  
 2-Fluorobiphenyl  
 Concen: 87.60 ng  
 RT: 9.13 min Scan# 616  
 Delta R.T. -0.01 min  
 Lab File: BF086515.D  
 Acq: 30 Apr 2016 11:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.0  | 43.6  |
| 170     | 24.3  | 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: 8.12 ng

RT: 9.80 min Scan# 675

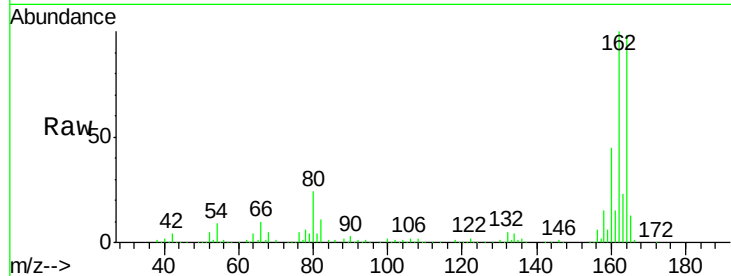
Delta R.T. 0.19 min

Lab File: BF086515.D

Acq: 30 Apr 2016 11:12

Instrument :  
BNA\_F  
ClientSampleId :

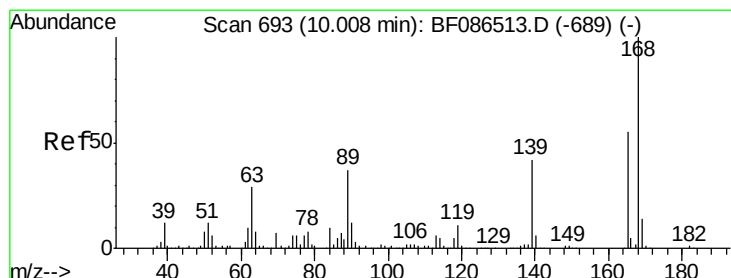
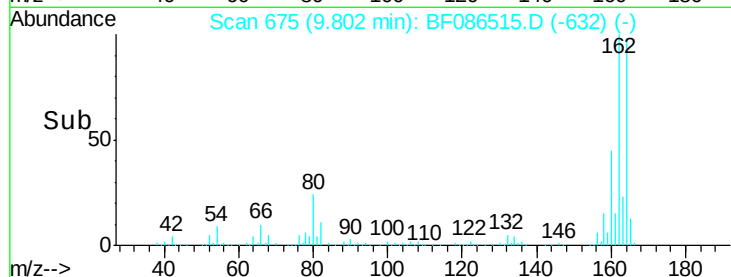
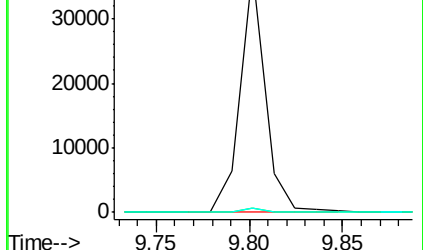
|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 35353      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.7   | 51.8 77.8# |
| 89          | 1.7   | 50.7 76.1# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.37 ng

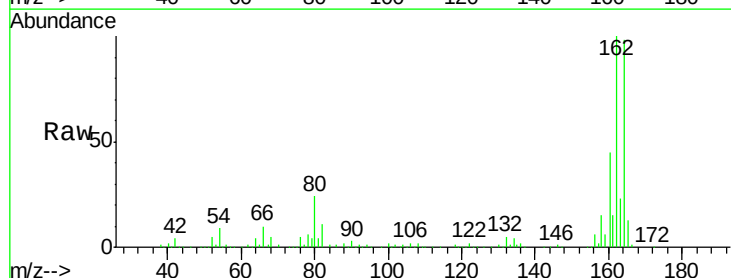
RT: 9.80 min Scan# 675

Delta R.T. -0.21 min

Lab File: BF086515.D

Acq: 30 Apr 2016 11:12

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:165 | Resp: | 35356       |
| Ion Ratio   | Lower | Upper       |
| 165         | 100   |             |
| 63          | 1.7   | 44.3 66.5#  |
| 89          | 1.7   | 70.0 105.0# |
| 182         | 0.0   | 1.8 2.6#    |

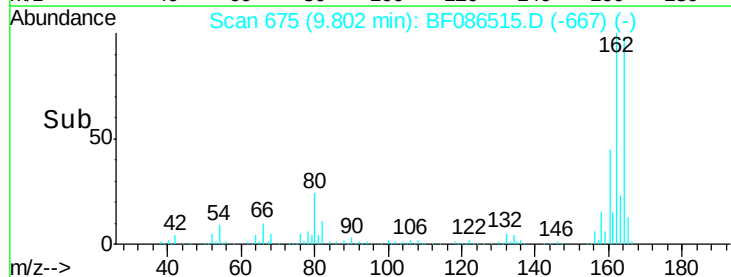
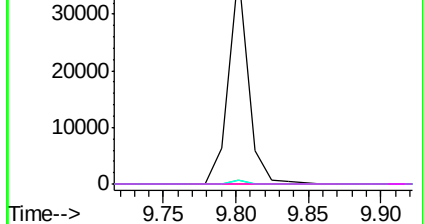


Abundance Ion 165.00 (164.70 to 165.70): E

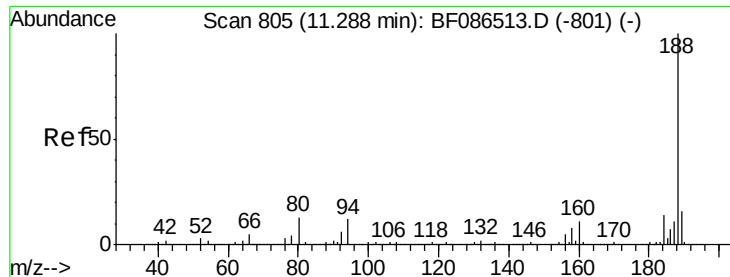
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



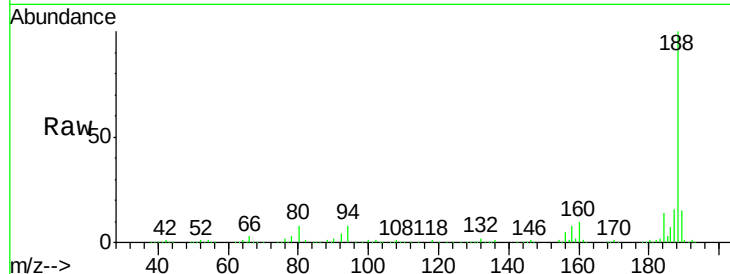




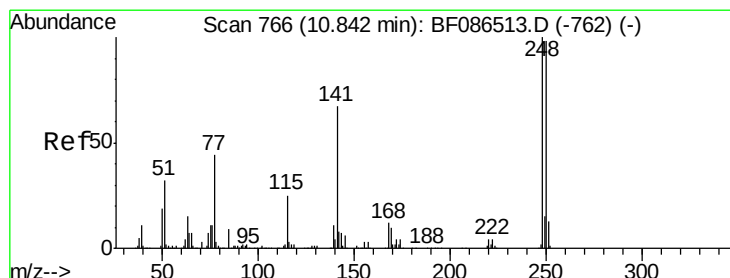
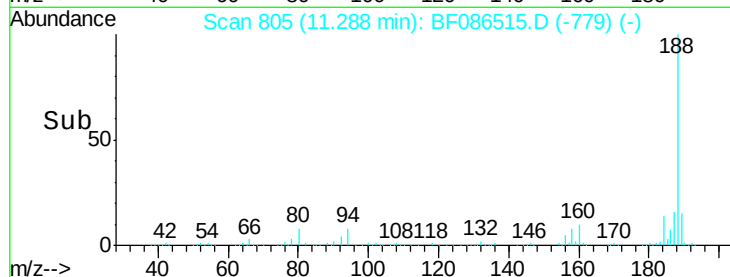
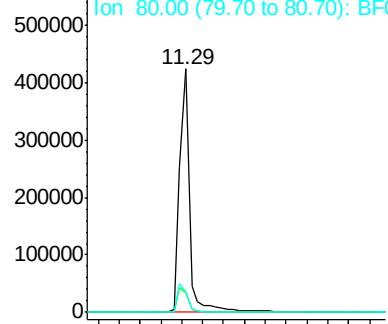
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.29 min Scan# 805  
Delta R.T. -0.00 min  
Lab File: BF086515.D  
Acq: 30 Apr 2016 11:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 564920  
Ion Ratio Lower Upper  
188 100  
94 8.3 6.8 10.2  
80 8.5 7.1 10.7

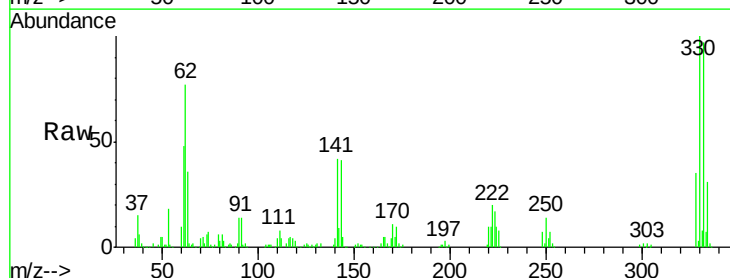


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

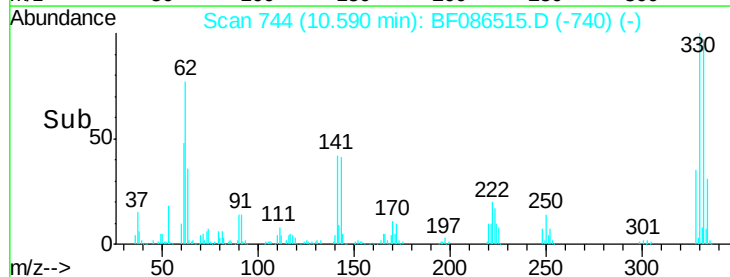
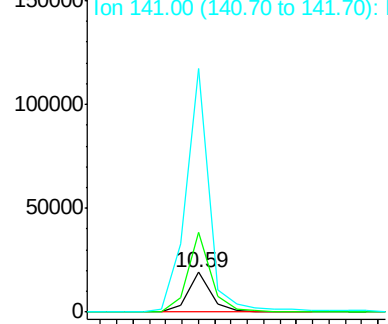


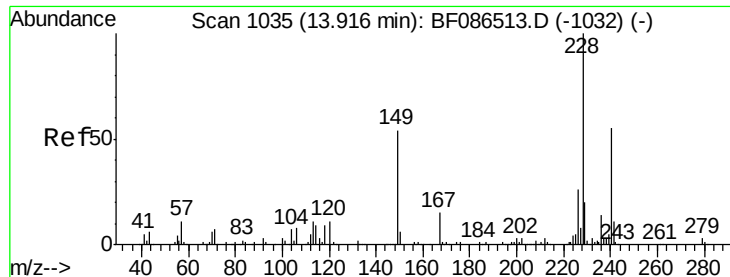
#66  
4-Bromophenyl-phenylether  
Concen: 3.28 ng  
RT: 10.59 min Scan# 744  
Delta R.T. -0.25 min  
Lab File: BF086515.D  
Acq: 30 Apr 2016 11:12

Tgt Ion:248 Resp: 19071  
Ion Ratio Lower Upper  
248 100  
250 200.5 78.6 117.8#  
141 608.5 76.0 114.0#



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.00 min

Lab File: BF086515.D

Acq: 30 Apr 2016 11:12

Instrument :

BNA\_F

ClientSampleId :

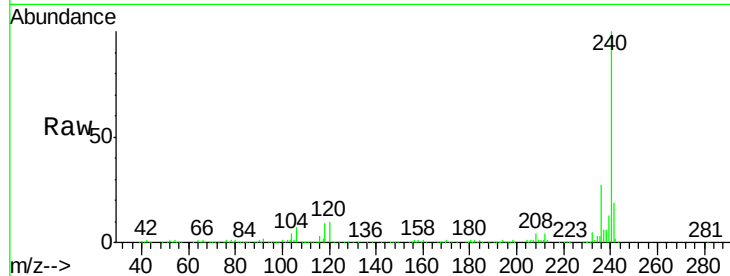
Tot Ion:240 Resp: 502372

Ion Ratio Lower Upper

240 100

120 10.5 11.2 16.8#

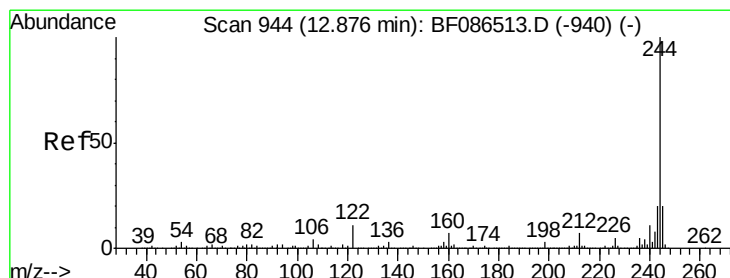
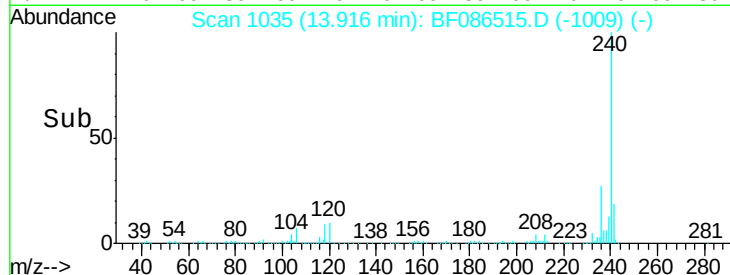
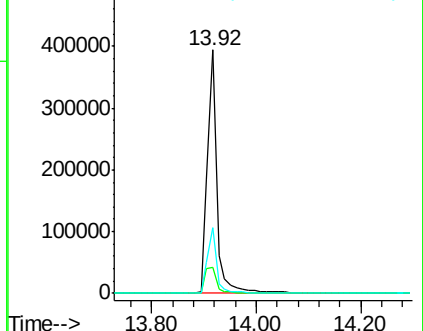
236 27.2 21.2 31.8



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: 68.32 ng

RT: 12.88 min Scan# 944

Delta R.T. -0.00 min

Lab File: BF086515.D

Acq: 30 Apr 2016 11:12

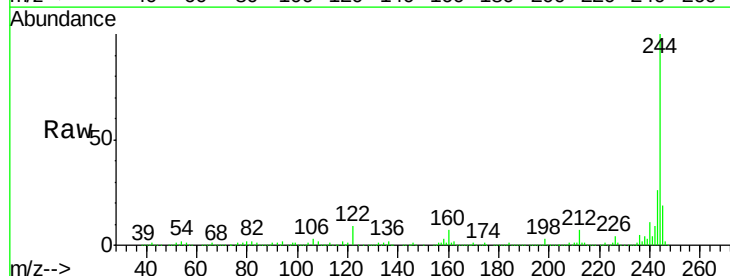
Tgt Ion:244 Resp: 1557917

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

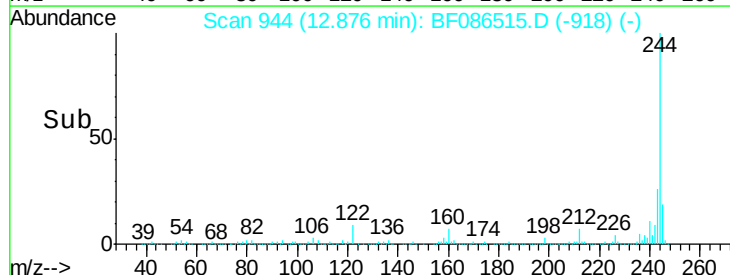
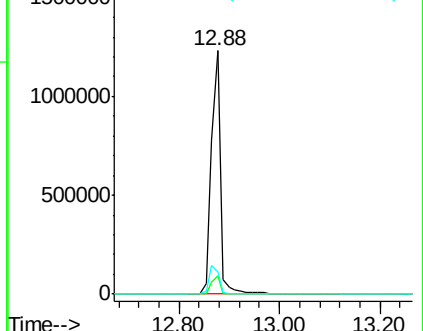
122 9.0 12.0 18.0#

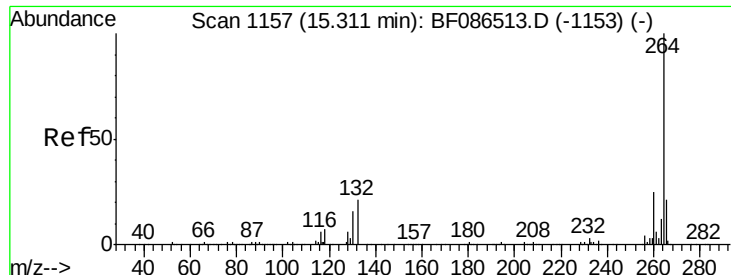


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

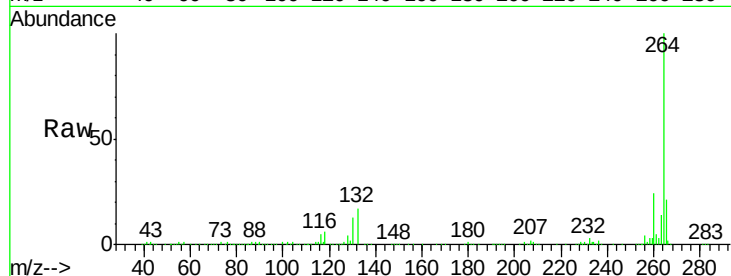




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.31 min Scan# 1157  
Delta R.T. -0.00 min  
Lab File: BF086515.D  
Acq: 30 Apr 2016 11:12

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.5  | 29.3  |
| 265     | 21.0  | 17.3  | 25.9  |



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

