

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\  
 Data File : BF097065.D  
 Acq On : 26 Jul 2017 8:51  
 Operator : SJ/JU  
 Sample : I4399-07 5X  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS4-BASE

Quant Time: Jul 26 11:46:51 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

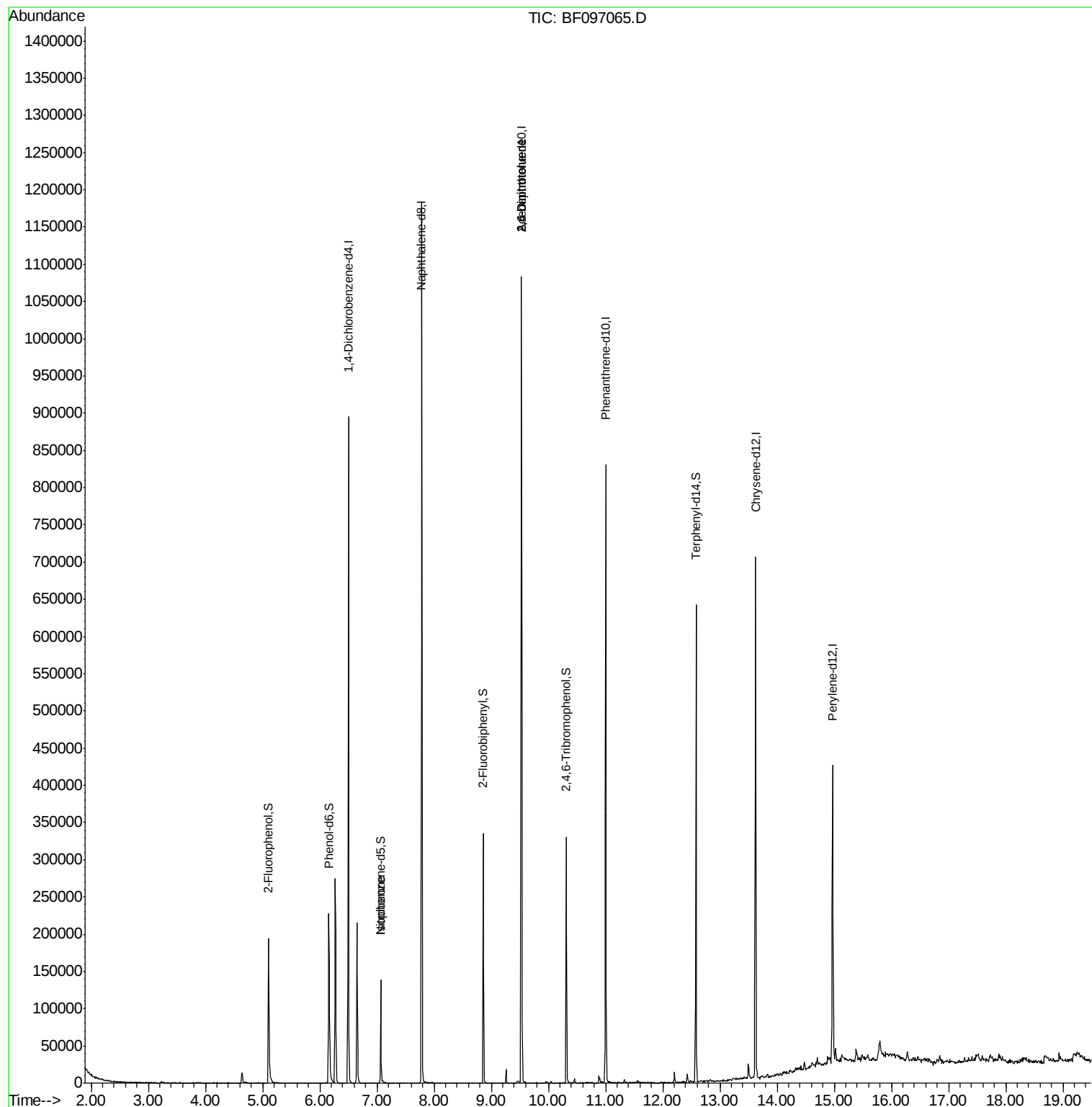
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.50  | 152  | 127784   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.78  | 136  | 495930   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.53  | 164  | 202169   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.00 | 188  | 278131   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.62 | 240  | 229511   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 14.97 | 264  | 164373   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.10  | 112  | 66488    | 7.84  | ng    | 0.00     |
| 7) Phenol-d6                | 6.16  | 99   | 85324    | 8.82  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 42142    | 4.99  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.31 | 330  | 33529    | 20.99 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.86  | 172  | 92213    | 7.74  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.58 | 244  | 178224   | 15.83 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.06  | 82   | 42141    | 2.545 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene      | 9.53  | 165  | 25459    | 7.819 | ng    | # 32     |
| 56) 2,4-Dinitrotoluene      | 9.53  | 165  | 25459    | 6.801 | ng    | # 32     |

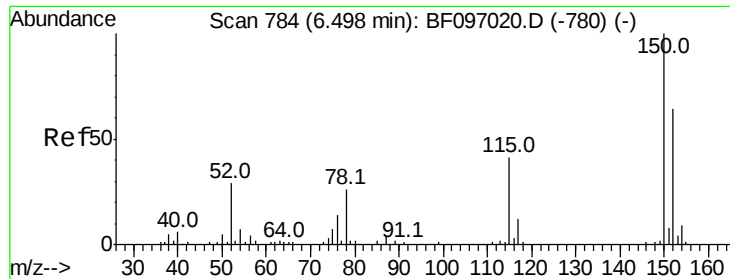
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\  
Data File : BF097065.D  
Acq On : 26 Jul 2017 8:51  
Operator : SJ/JU  
Sample : I4399-07 5X  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
E2-HS4-BASE

Quant Time: Jul 26 11:46:51 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 14:11:51 2017  
Response via : Initial Calibration



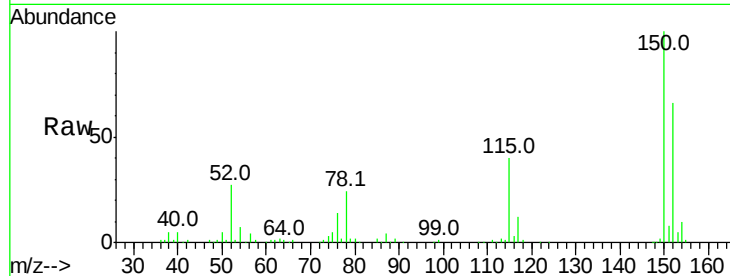


#1

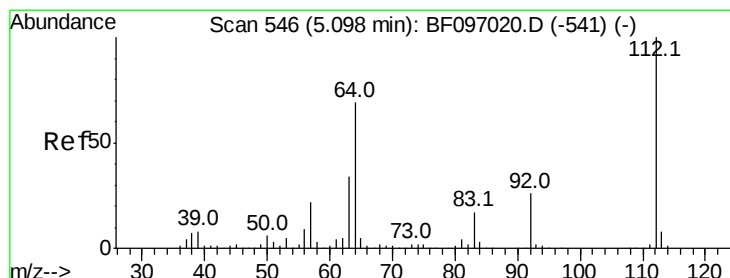
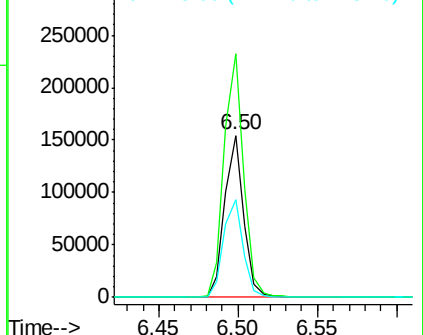
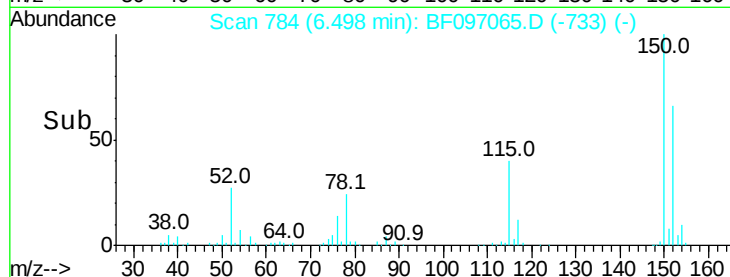
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.50 min Scan# 784  
 Delta R.T. -0.00 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS4-BASE

Tot Ion:152 Resp: 127784  
 Ion Ratio Lower Upper  
 152 100  
 150 150.5 126.2 189.2  
 115 60.3 52.2 78.2



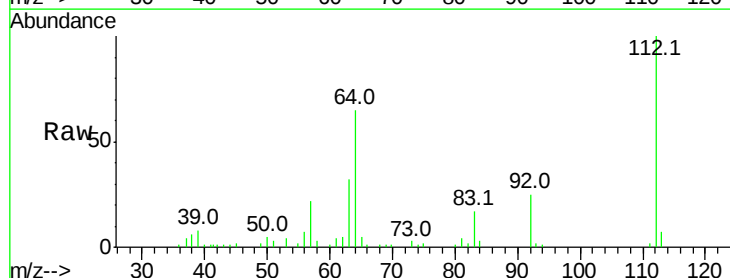
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



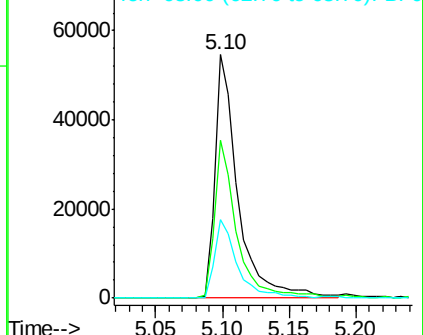
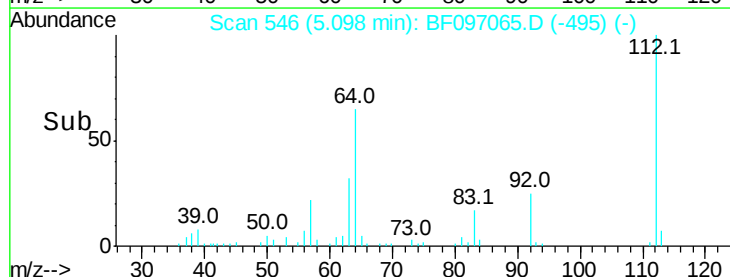
#5

2-Fluorophenol  
 Concen: 7.844 ng  
 RT: 5.10 min Scan# 546  
 Delta R.T. 0.00 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

Tgt Ion:112 Resp: 66488  
 Ion Ratio Lower Upper  
 112 100  
 64 64.7 46.0 69.0  
 63 32.2 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: 8.817 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097065.D

Acq: 26 Jul 2017 8:51

Instrument :

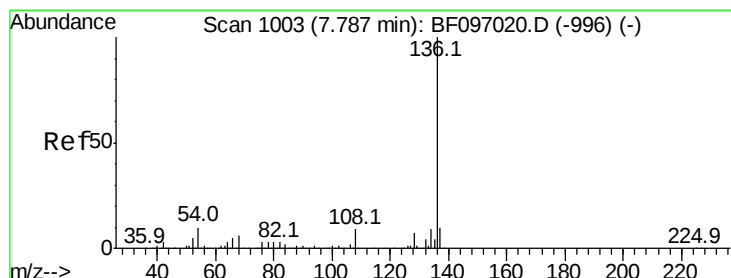
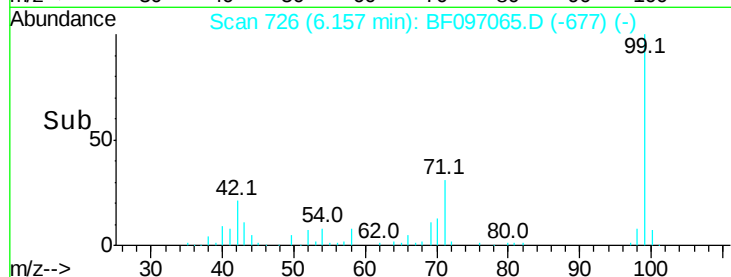
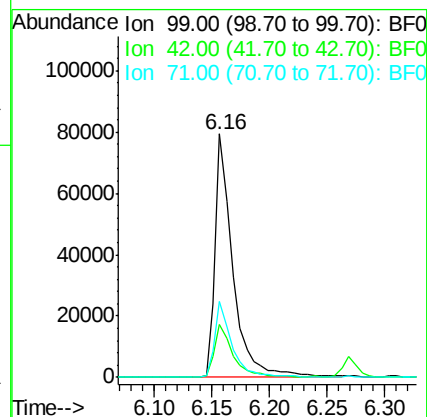
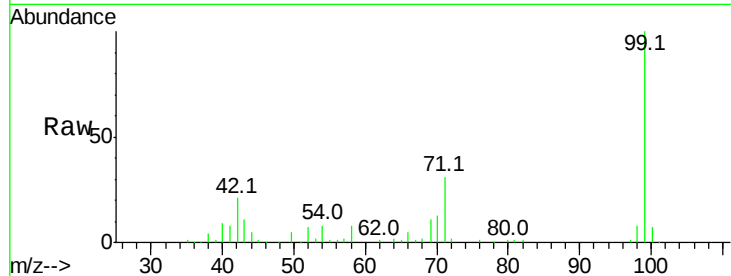
BNA\_F

ClientSampleId :

E2-HS4-BASE

Tot Ion: 99 Resp: 85324

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.5  | 13.5  | 20.3# |
| 71  | 31.1  | 24.5  | 36.7  |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.78 min Scan# 1002

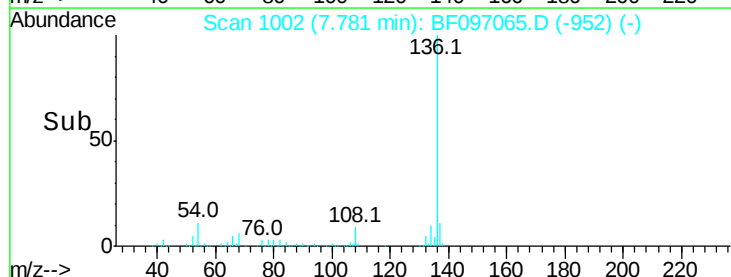
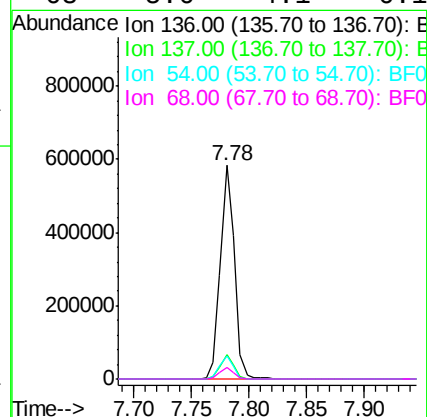
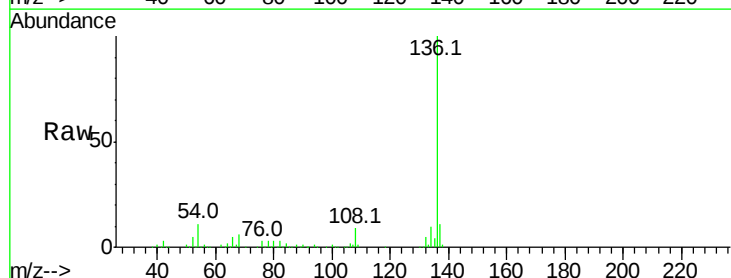
Delta R.T. -0.01 min

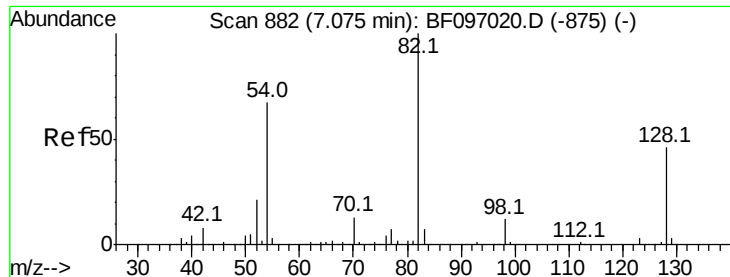
Lab File: BF097065.D

Acq: 26 Jul 2017 8:51

Tgt Ion: 136 Resp: 495930

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.4  | 8.5   | 12.7  |
| 54  | 10.5  | 4.9   | 7.3#  |
| 68  | 5.6   | 4.1   | 6.1   |

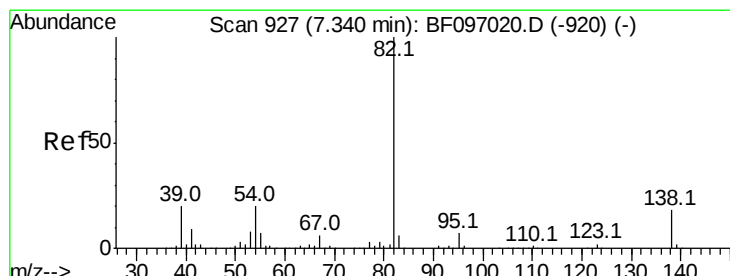
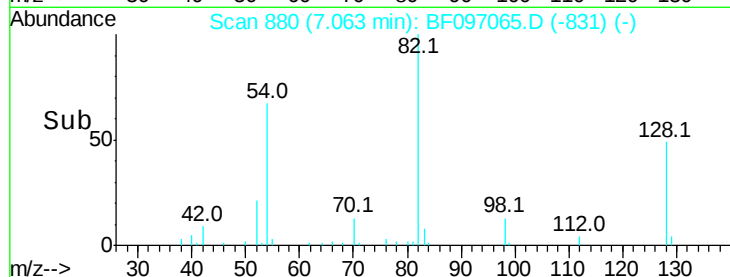
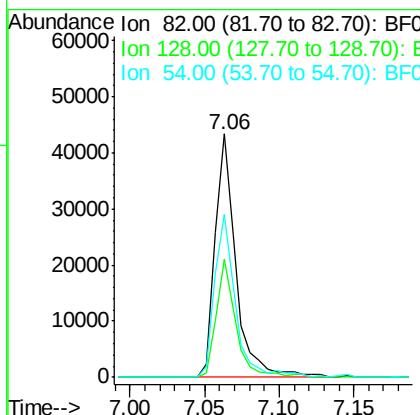
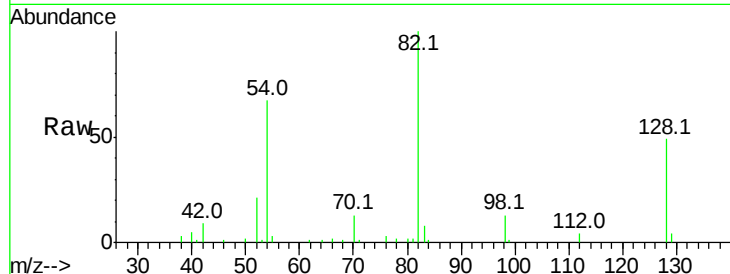




#23  
 Nitrobenzene-d5  
 Concen: 4.985 ng  
 RT: 7.06 min Scan# 880  
 Delta R.T. -0.01 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

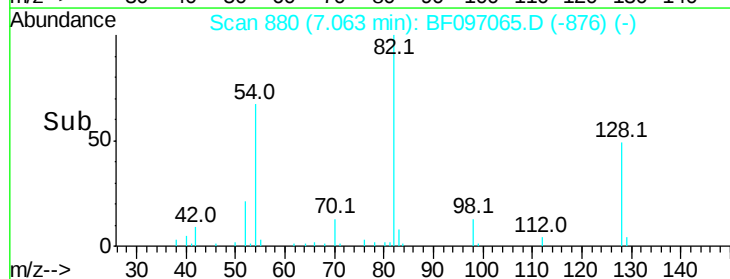
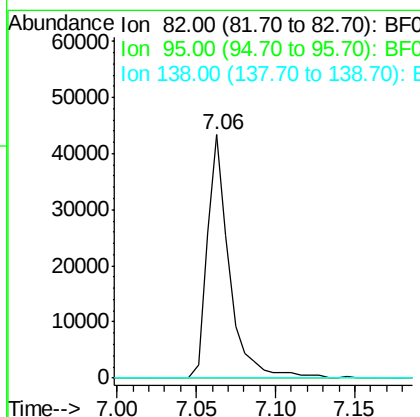
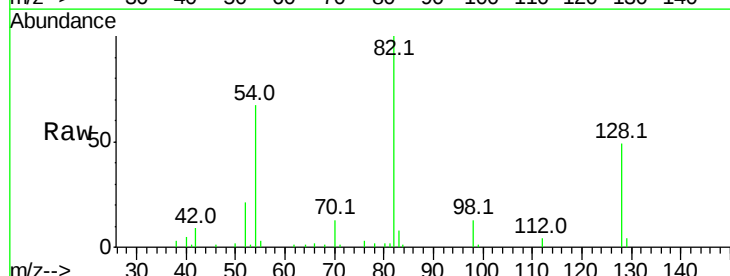
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS4-BASE

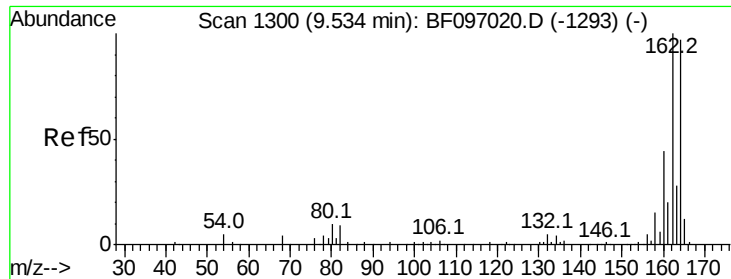
Tot Ion: 82 Resp: 42142  
 Ion Ratio Lower Upper  
 82 100  
 128 48.5 34.0 51.0  
 54 66.9 42.2 63.2#



#25  
 Isophorone  
 Concen: 2.545 ng  
 RT: 7.06 min Scan# 880  
 Delta R.T. -0.28 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

Tgt Ion: 82 Resp: 42141  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#

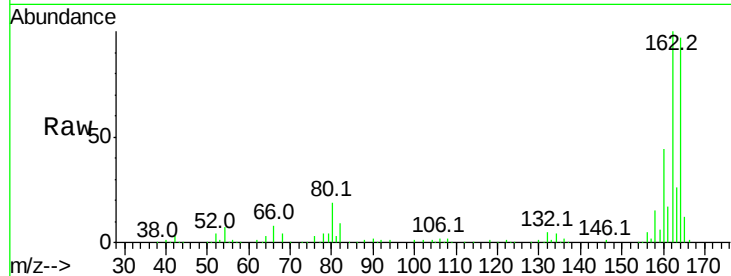




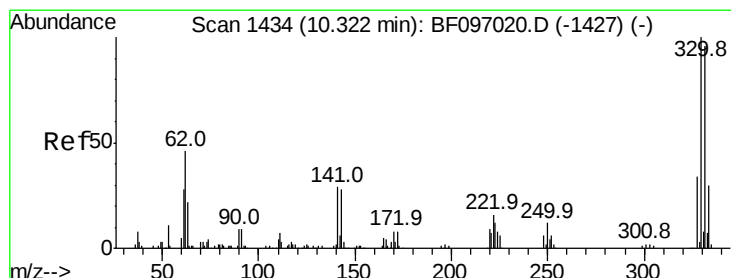
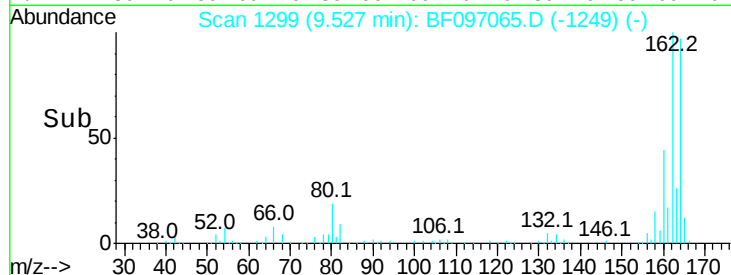
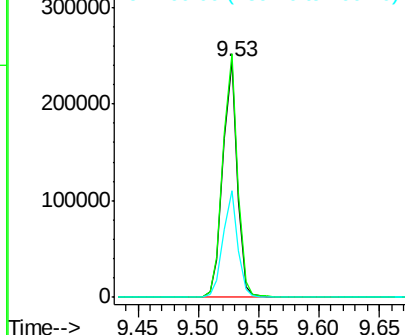
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.53 min Scan# 1299  
 Delta R.T. -0.01 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS4-BASE

Tot Ion:164 Resp: 202169  
 Ion Ratio Lower Upper  
 164 100  
 162 103.4 82.6 123.8  
 160 45.3 36.2 54.2

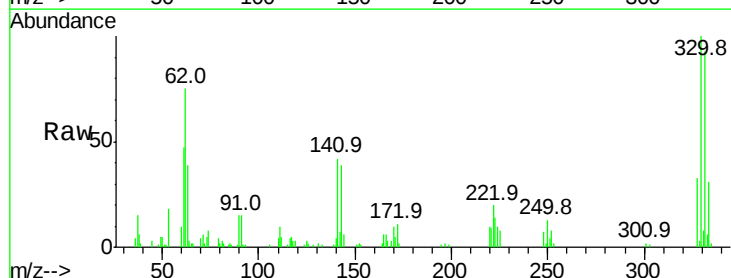


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

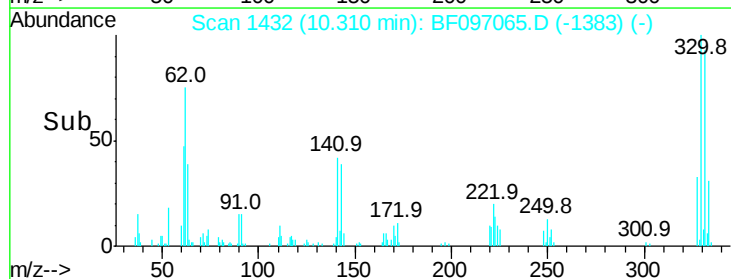
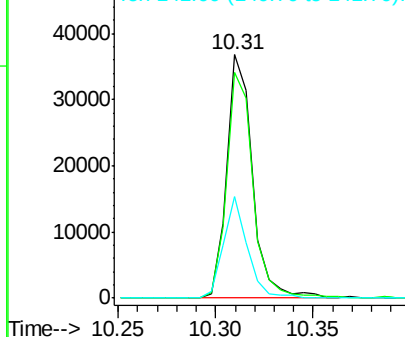


#41  
 2,4,6-Tribromophenol  
 Concen: 20.991 ng  
 RT: 10.31 min Scan# 1432  
 Delta R.T. -0.01 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

Tgt Ion:330 Resp: 33529  
 Ion Ratio Lower Upper  
 330 100  
 332 95.5 76.6 115.0  
 141 38.8 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

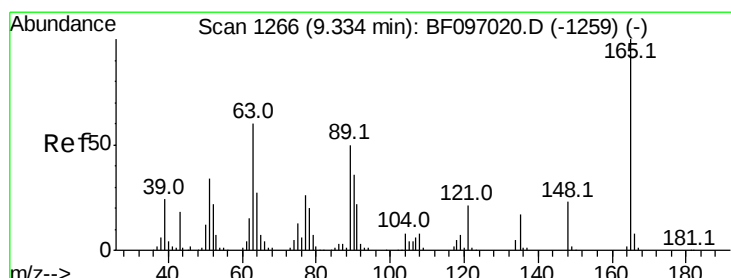
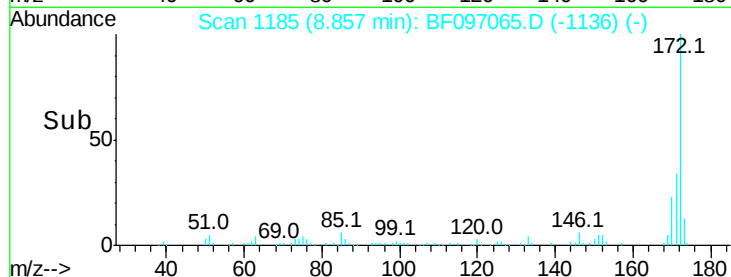
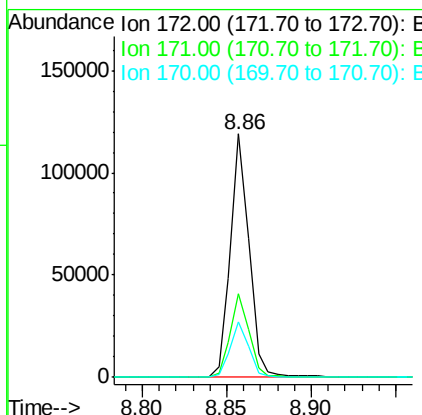
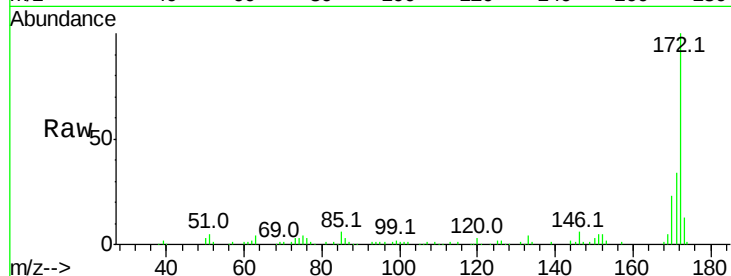




#44  
 2-Fluorobiphenyl  
 Concen: 7.741 ng  
 RT: 8.86 min Scan# 1185  
 Delta R.T. -0.01 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

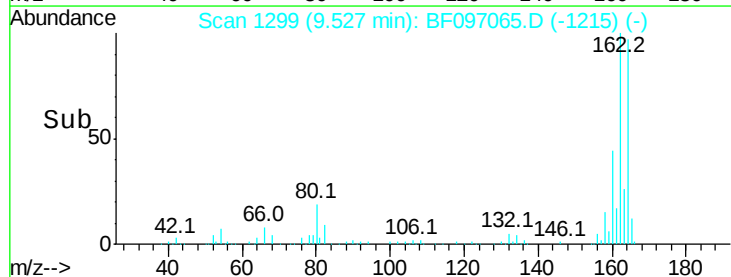
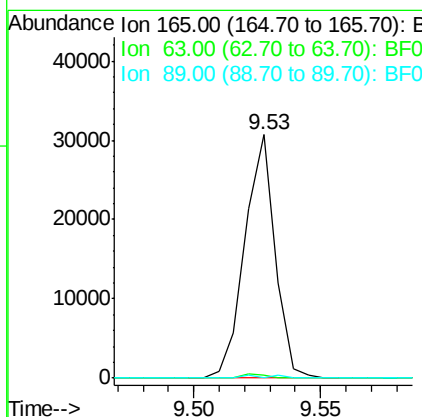
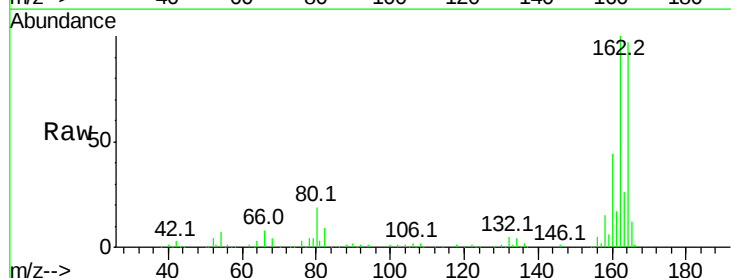
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS4-BASE

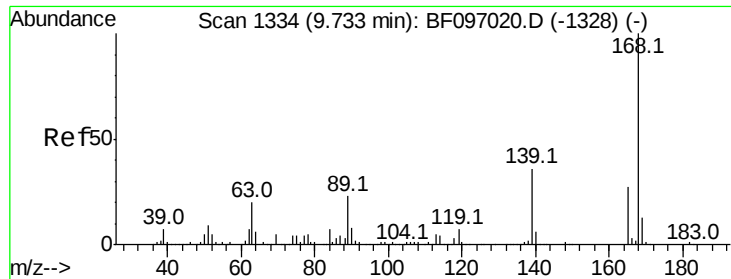
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.2  | 29.6  | 44.4  |
| 170     | 22.7  | 19.8  | 29.8  |



#50  
 2,6-Dinitrotoluene  
 Concen: 7.819 ng  
 RT: 9.53 min Scan# 1299  
 Delta R.T. 0.19 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |

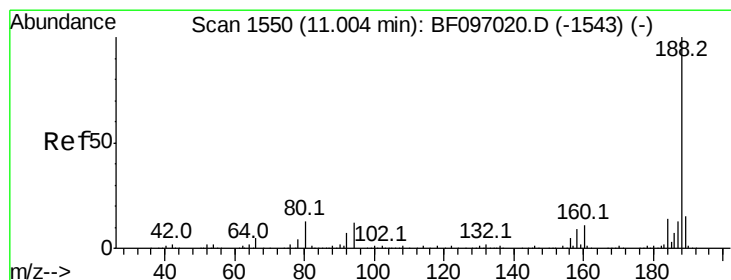
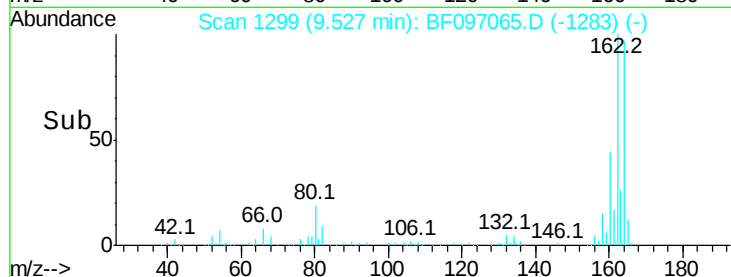
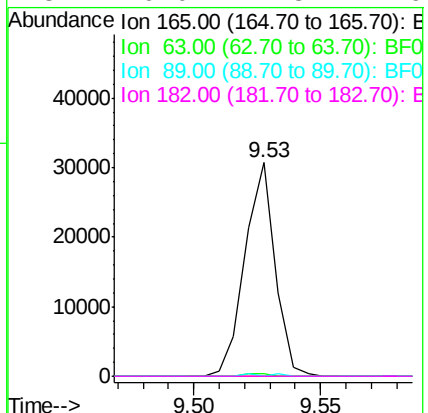
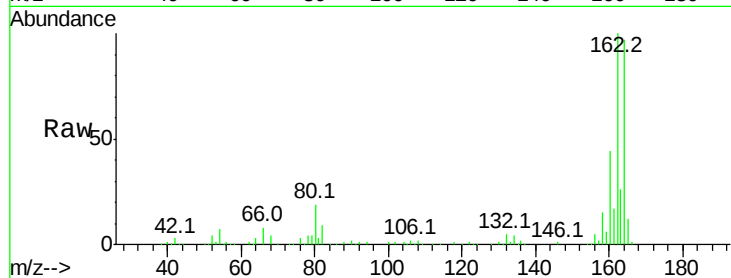




#56  
 2,4-Dinitrotoluene  
 Concen: 6.801 ng  
 RT: 9.53 min Scan# 1299  
 Delta R.T. -0.21 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

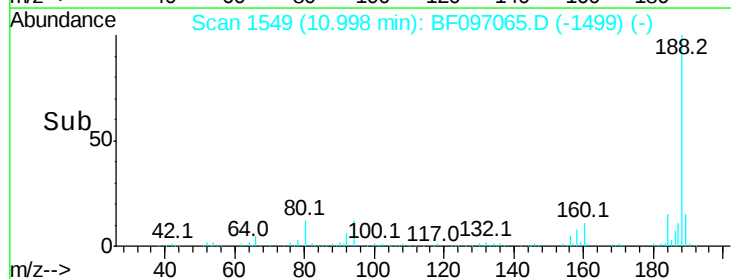
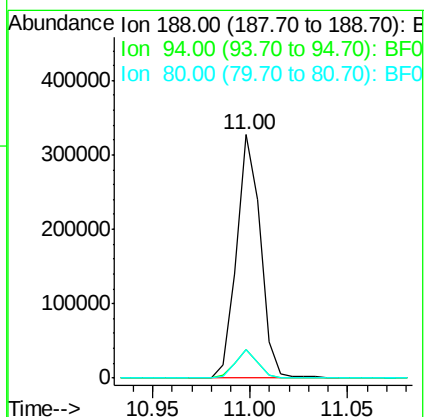
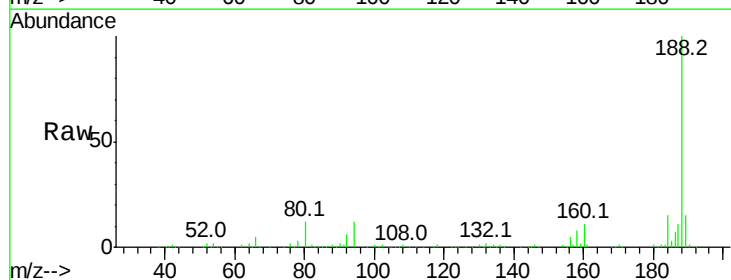
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS4-BASE

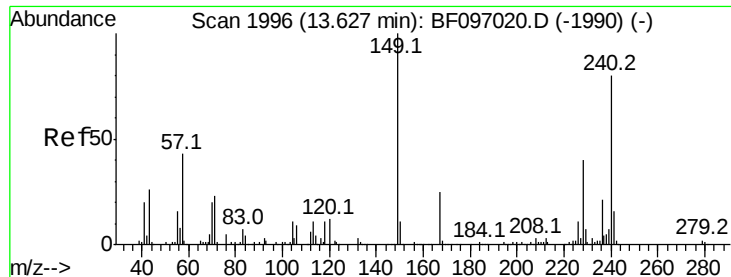
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 25459 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.1   | 25.4  | 38.0# |
| 89       | 0.0   | 46.4  | 69.6# |
| 182      | 0.0   | 1.8   | 2.6#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.00 min Scan# 1549  
 Delta R.T. -0.01 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 278131 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 11.6  | 9.4   | 14.2   |
| 80       | 11.5  | 10.2  | 15.2   |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.62 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF097065.D

Acq: 26 Jul 2017 8:51

Instrument :

BNA\_F

ClientSampleId :

E2-HS4-BASE

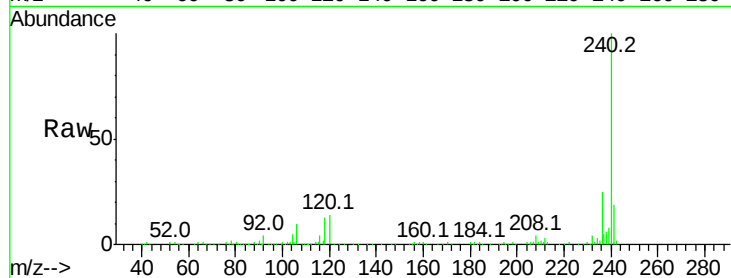
Tot Ion:240 Resp: 229511

Ion Ratio Lower Upper

240 100

120 14.1 5.8 8.8#

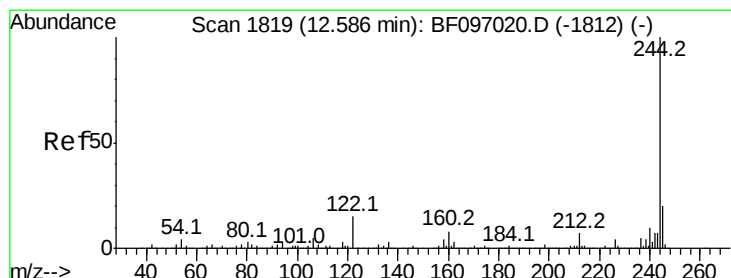
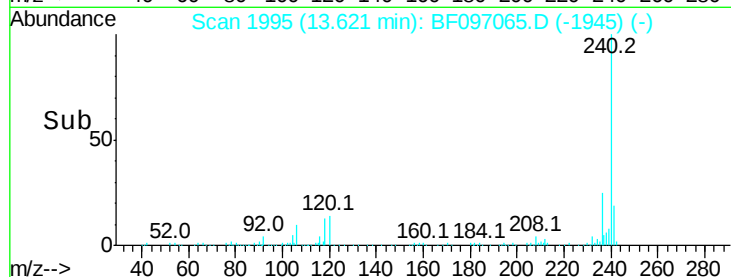
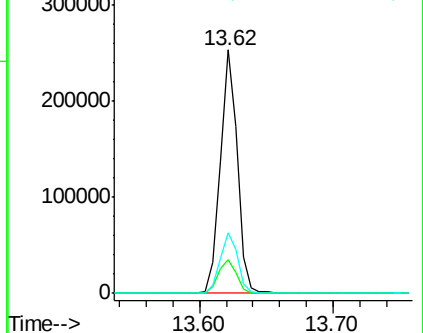
236 24.8 20.5 30.7



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



#78

Terphenyl-d14

Concen: 15.832 ng

RT: 12.58 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF097065.D

Acq: 26 Jul 2017 8:51

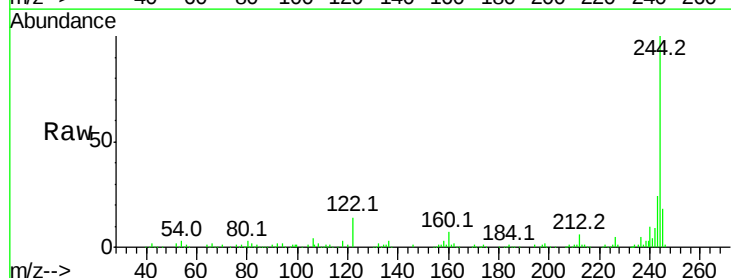
Tgt Ion:244 Resp: 178224

Ion Ratio Lower Upper

244 100

212 6.0 6.0 9.0

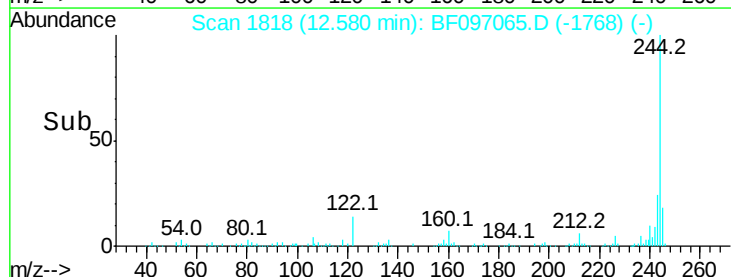
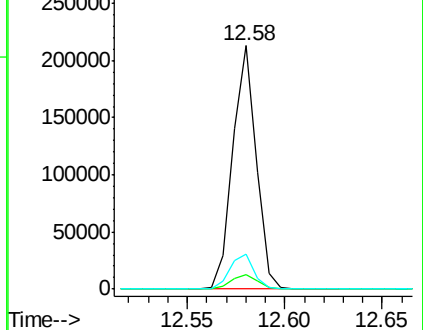
122 14.3 10.3 15.5

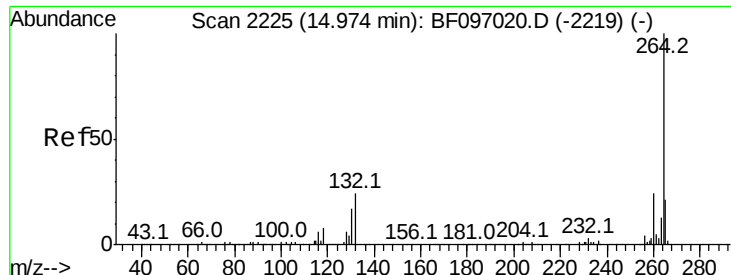


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

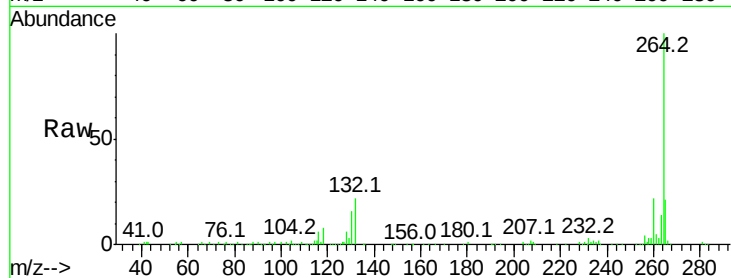




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 14.97 min Scan# 2225  
 Delta R.T. -0.00 min  
 Lab File: BF097065.D  
 Acq: 26 Jul 2017 8:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS4-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 19.5  | 29.3  |
| 265     | 21.2  | 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

