

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070115\  
 Data File : BF080298.D  
 Acq On : 2 Jul 2015 5:49  
 Operator : TP/UM  
 Sample : PB84309TB  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84309TB

Quant Time: Jul 02 08:13:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 02 03:50:52 2015  
 Response via : Initial Calibration

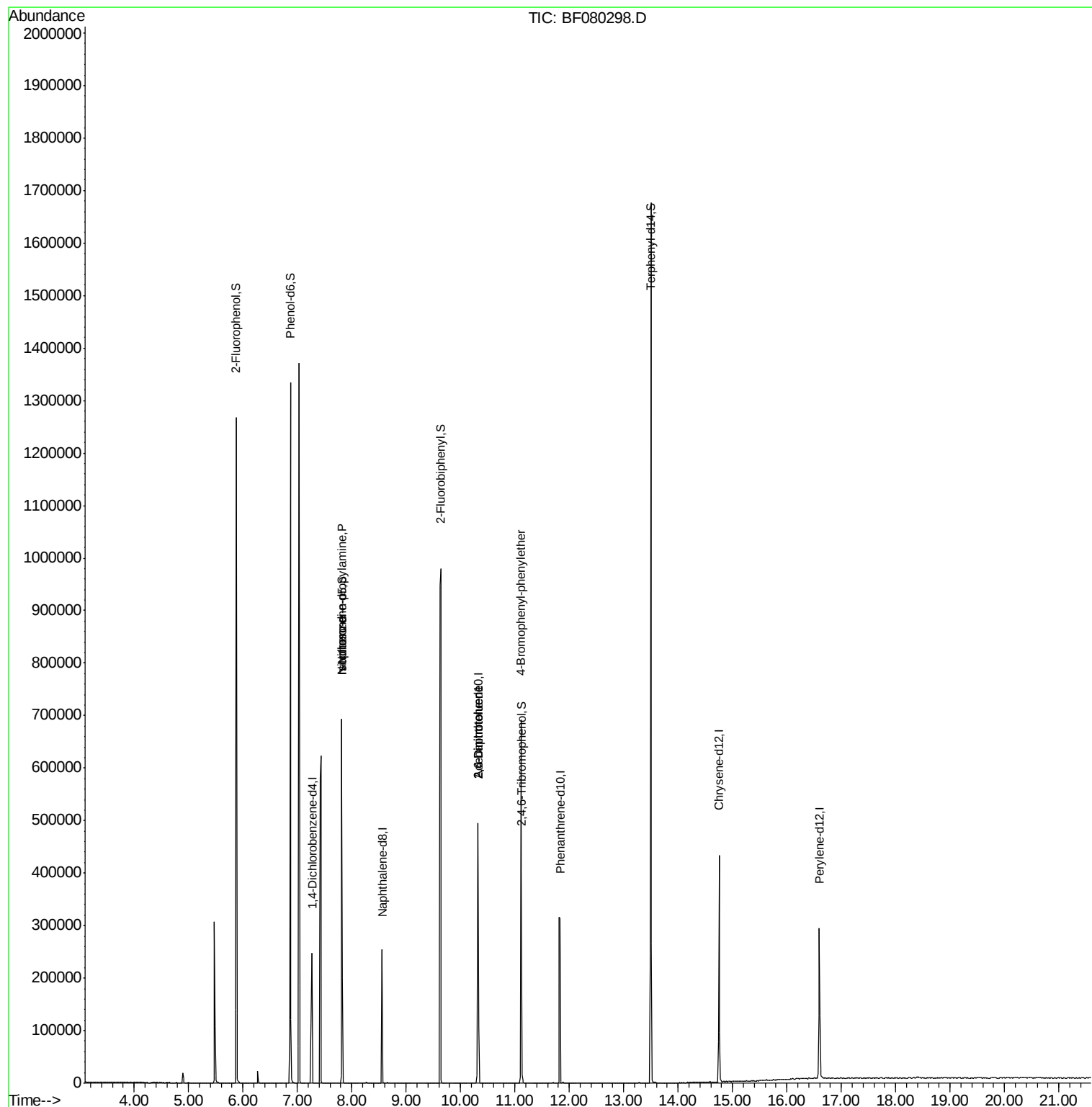
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.27  | 152  | 44056    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.56  | 136  | 166848   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.32 | 164  | 93862    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.83 | 188  | 182895   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.76 | 240  | 169548   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12               | 16.60 | 264  | 155485   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.88  | 112  | 305181   | 119.96 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.87  | 99   | 390757   | 114.42 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.82  | 82   | 218131   | 71.98  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 11.12 | 330  | 93859    | 105.02 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.64  | 172  | 473068   | 72.54  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.50 | 244  | 539039   | 74.47  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.82  | 70   | 27993    | 12.33  | ng    | # 83     |
| 25) Isophorone                 | 7.82  | 82   | 214263   | 36.38  | ng    | # 65     |
| 50) 2,6-Dinitrotoluene         | 10.32 | 165  | 11973    | 8.17   | ng    | # 43     |
| 56) 2,4-Dinitrotoluene         | 10.32 | 165  | 11974    | 6.30   | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 11.11 | 248  | 6540     | 3.31   | ng    | # 1      |

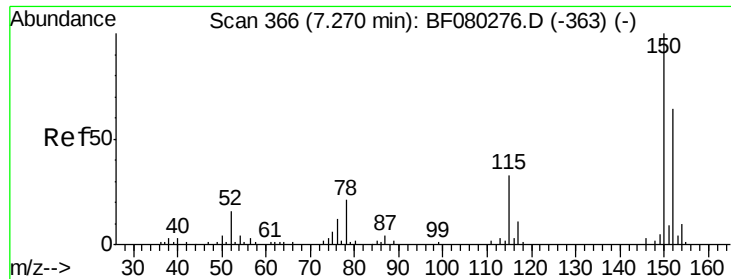
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070115\  
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Quant Time: Jul 02 08:13:52 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070115.M  
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QLast Update : Thu Jul 02 03:50:52 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

Instrument :

BNA\_F

ClientSampleId :

PB84309TB

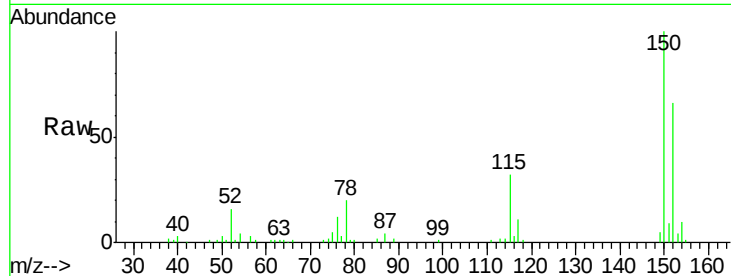
Tgt Ion:152 Resp: 44056

Ion Ratio Lower Upper

152 100

150 150.8 124.7 187.1

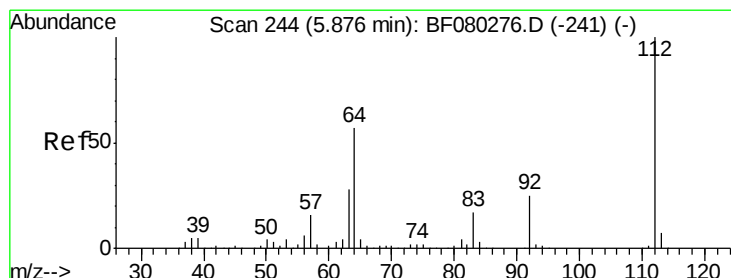
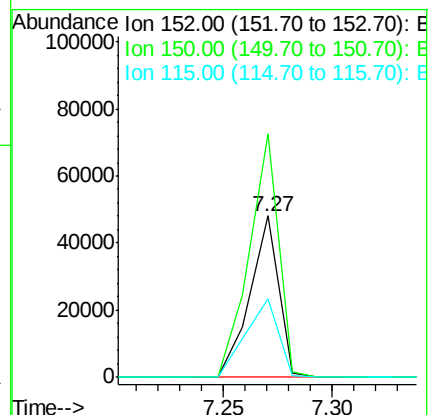
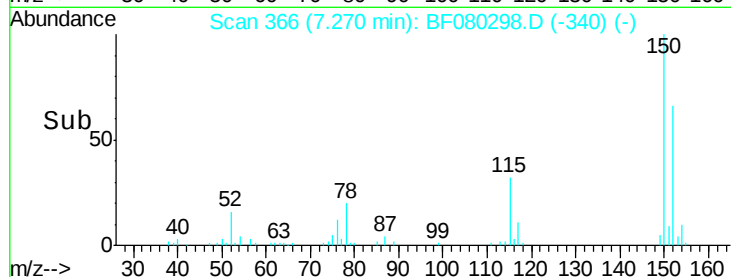
115 48.7 41.0 61.6



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: 119.96 ng

RT: 5.88 min Scan# 244

Delta R.T. 0.00 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

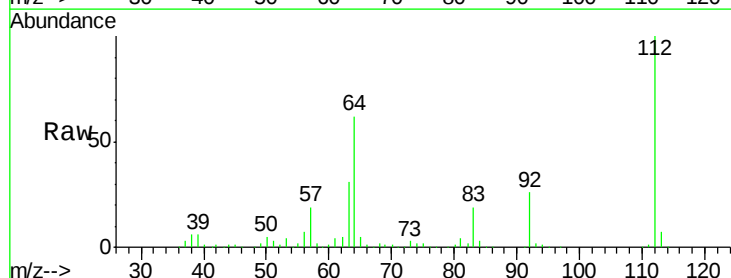
Tgt Ion:112 Resp: 305181

Ion Ratio Lower Upper

112 100

64 62.0 45.5 68.3

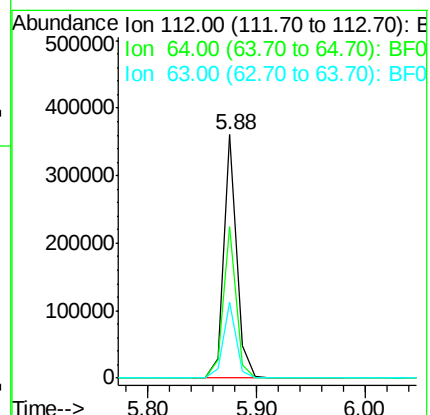
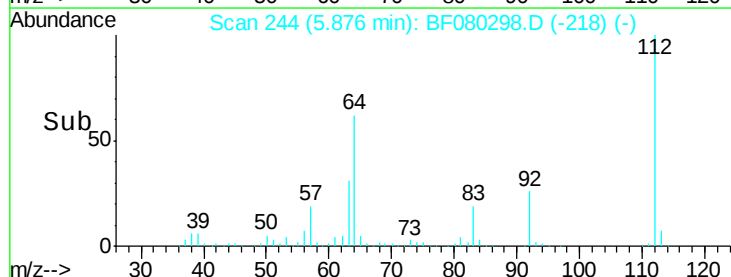
63 31.1 22.4 33.6

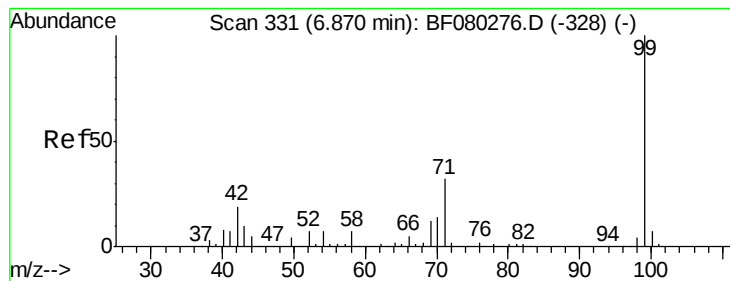


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 114.42 ng

RT: 6.87 min Scan# 331

Delta R.T. 0.00 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

Instrument :

BNA\_F

ClientSampleId :

PB84309TB

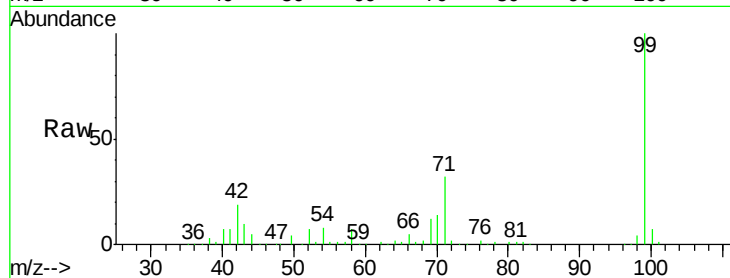
Tgt Ion: 99 Resp: 390757

Ion Ratio Lower Upper

99 100

42 19.4 15.4 23.2

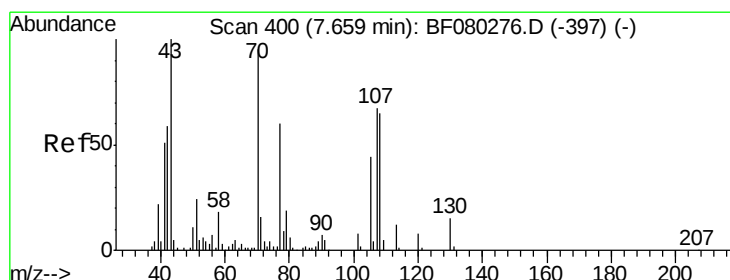
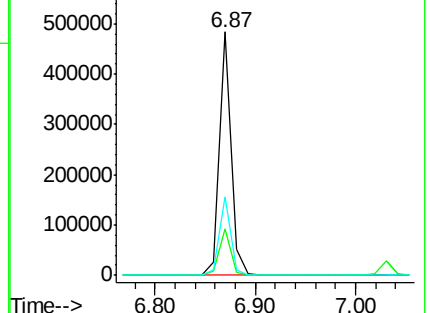
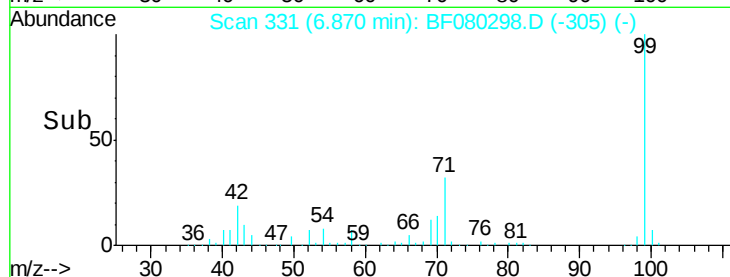
71 32.3 25.8 38.8



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.33 ng

RT: 7.82 min Scan# 414

Delta R.T. 0.16 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

Tgt Ion: 70 Resp: 27993

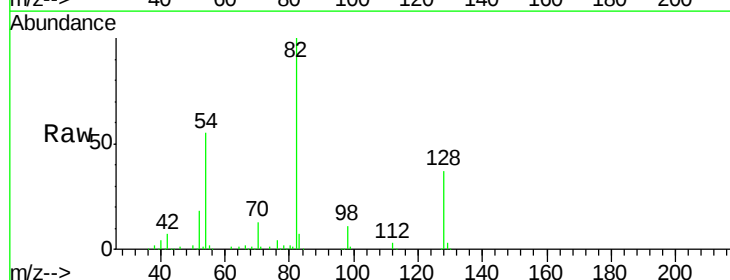
Ion Ratio Lower Upper

70 100

42 52.7 49.8 74.8

101 0.0 6.8 10.2#

130 2.0 13.0 19.4#

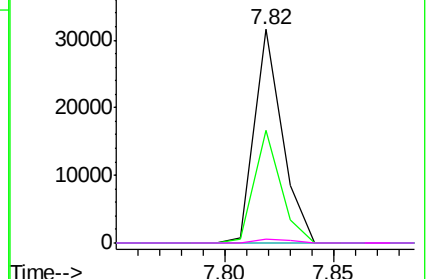
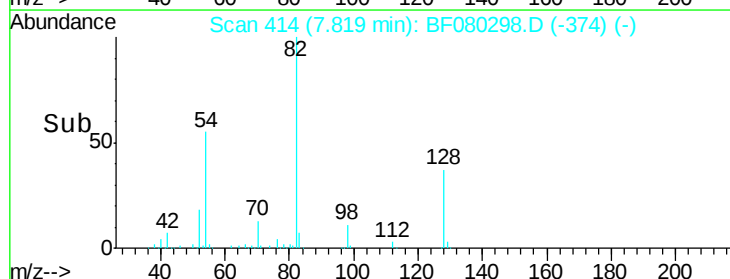


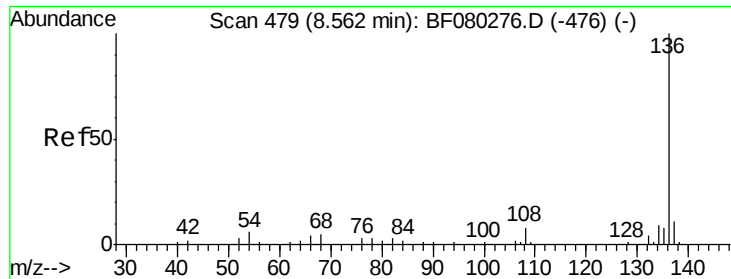
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

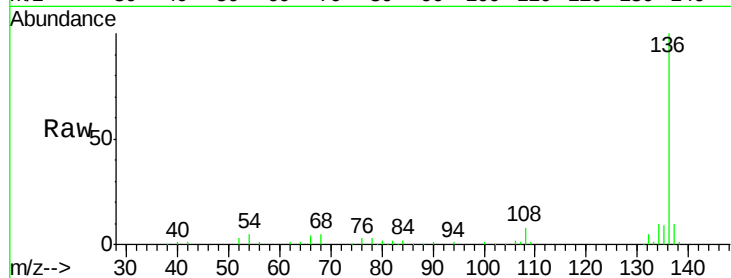




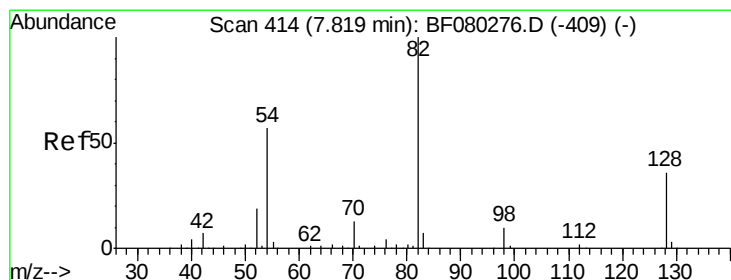
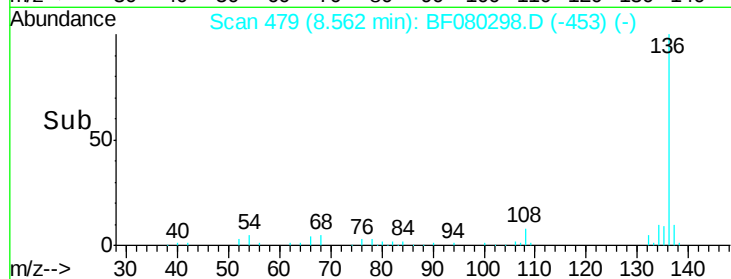
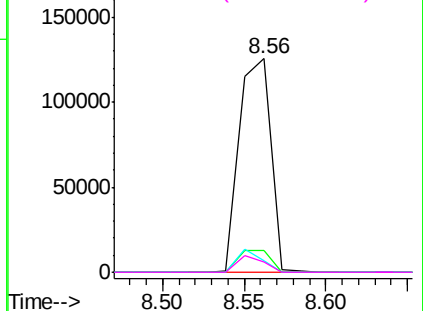
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.56 min Scan# 479  
Delta R.T. 0.00 min  
Lab File: BF080298.D  
Acq: 2 Jul 2015 5:49

Instrument :  
BNA\_F  
ClientSampleId :  
PB84309TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 166848 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.3  | 8.4   | 12.6   |
| 54       | 5.3   | 4.9   | 7.3    |
| 68       | 4.6   | 4.0   | 6.0    |

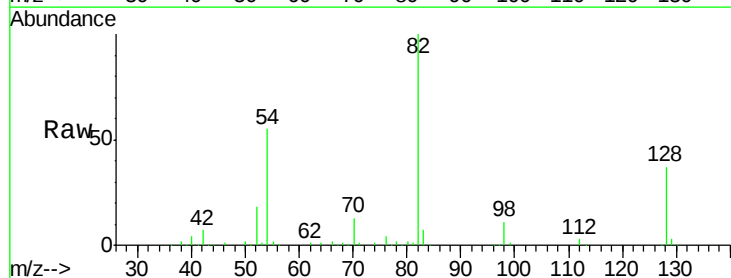


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

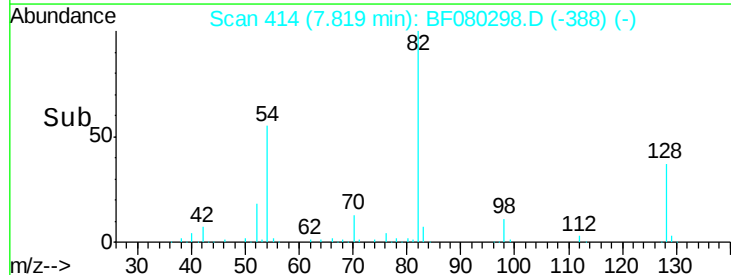
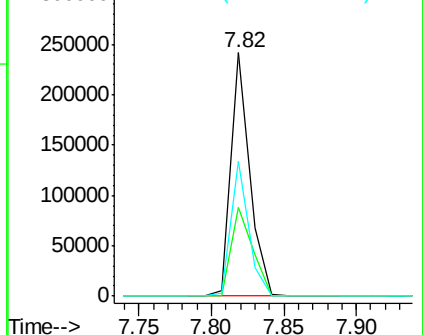


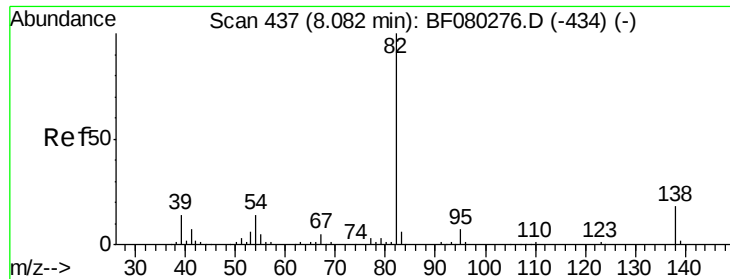
#23  
Nitrobenzene-d5  
Concen: 71.98 ng  
RT: 7.82 min Scan# 414  
Delta R.T. 0.00 min  
Lab File: BF080298.D  
Acq: 2 Jul 2015 5:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 218131 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 36.7  | 29.0  | 43.4   |
| 54       | 55.3  | 45.3  | 67.9   |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 36.38 ng

RT: 7.82 min Scan# 414

Delta R.T. -0.26 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

Instrument :

BNA\_F

ClientSampleId :

PB84309TB

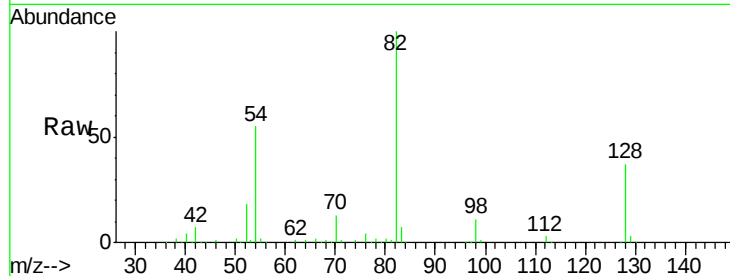
Tgt Ion: 82 Resp: 214263

Ion Ratio Lower Upper

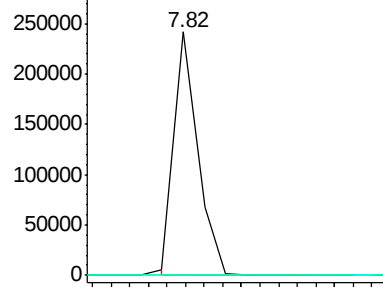
82 100

95 0.0 5.3 7.9#

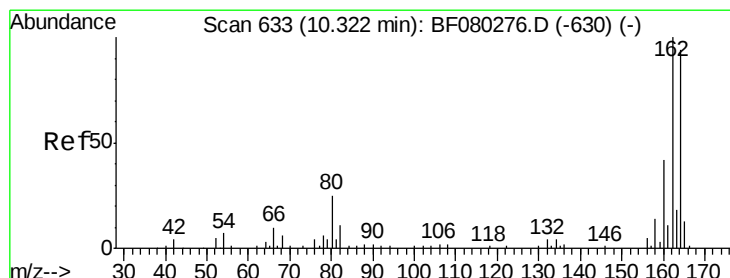
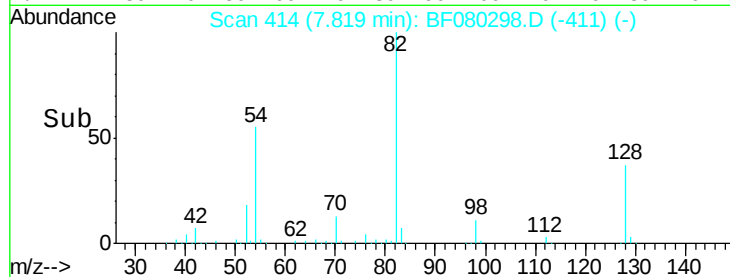
138 0.0 14.4 21.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.32 min Scan# 633

Delta R.T. 0.00 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

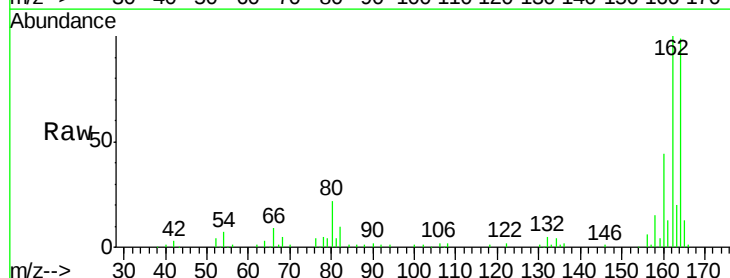
Tgt Ion:164 Resp: 93862

Ion Ratio Lower Upper

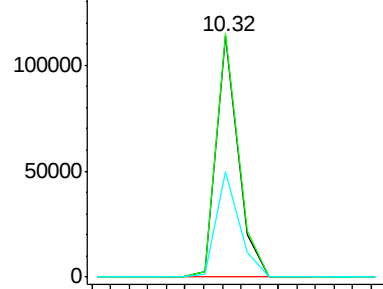
164 100

162 101.1 84.8 127.2

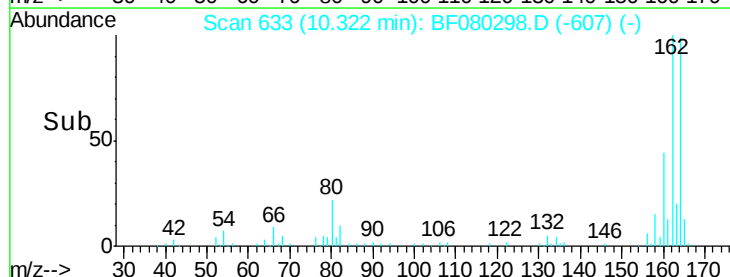
160 44.0 35.8 53.8

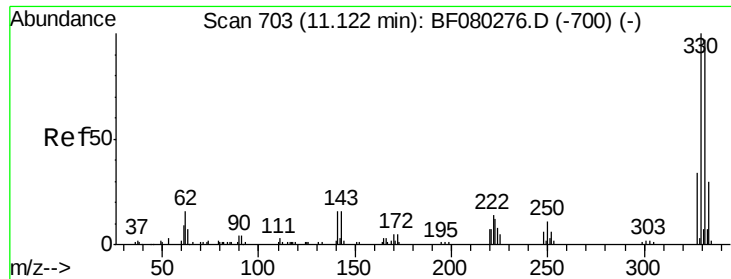


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E



Time-->

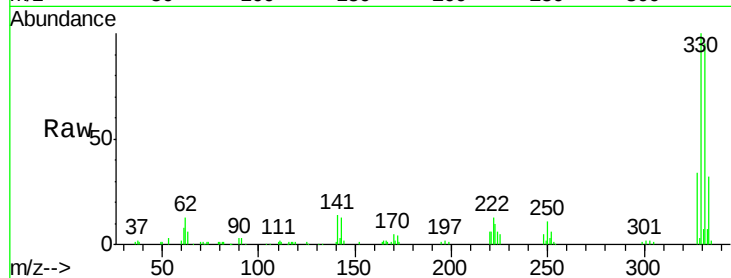




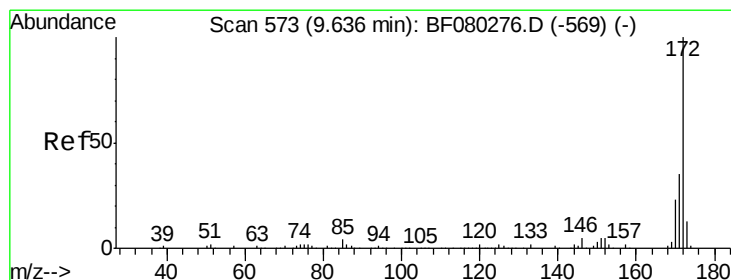
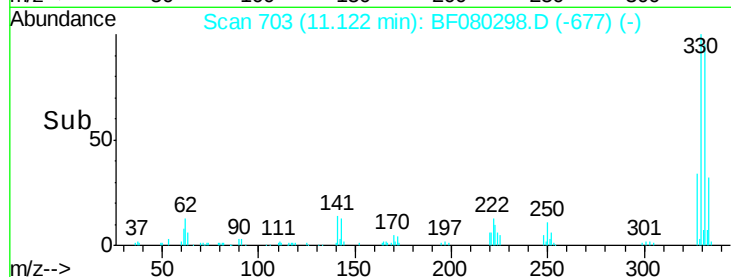
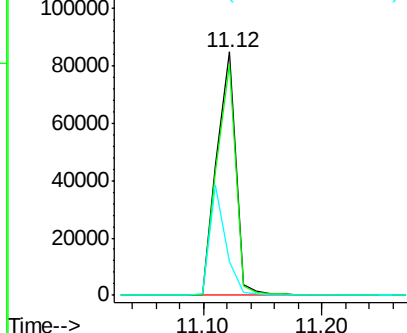
#41  
 2,4,6-Tribromophenol  
 Concen: 105.02 ng  
 RT: 11.12 min Scan# 703  
 Delta R.T. 0.00 min  
 Lab File: BF080298.D  
 Acq: 2 Jul 2015 5:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84309TB

Tgt Ion:330 Resp: 93859  
 Ion Ratio Lower Upper  
 330 100  
 332 94.5 77.4 116.2  
 141 38.0 28.0 42.0

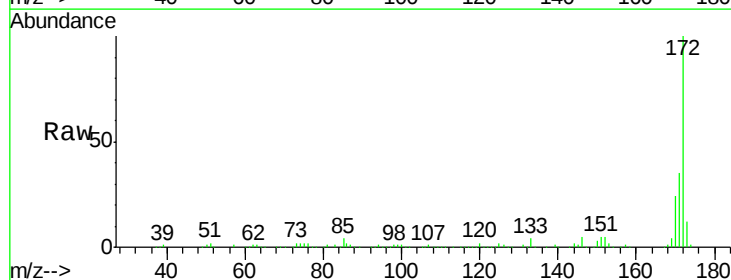


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

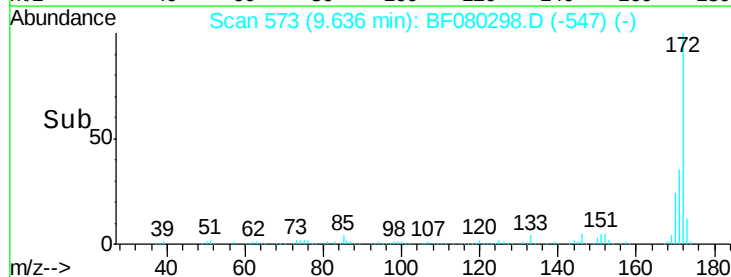
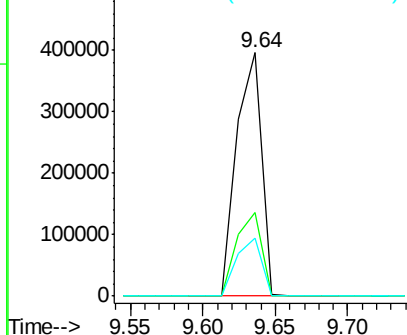


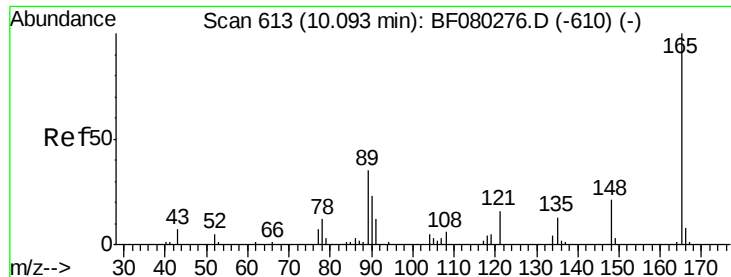
#44  
 2-Fluorobiphenyl  
 Concen: 72.54 ng  
 RT: 9.64 min Scan# 573  
 Delta R.T. 0.00 min  
 Lab File: BF080298.D  
 Acq: 2 Jul 2015 5:49

Tgt Ion:172 Resp: 473068  
 Ion Ratio Lower Upper  
 172 100  
 171 34.5 28.1 42.1  
 170 23.6 18.6 28.0



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

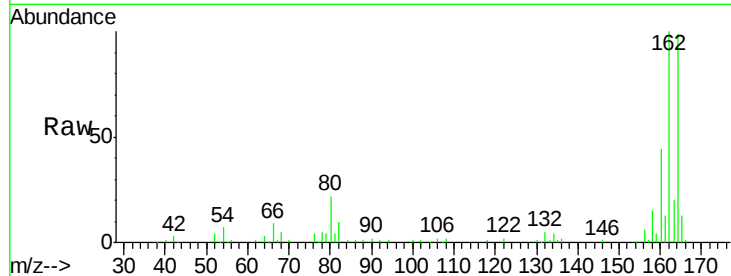




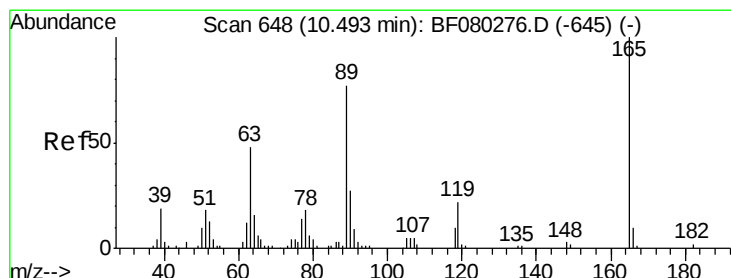
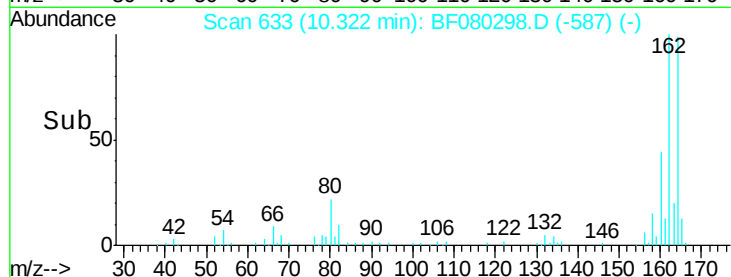
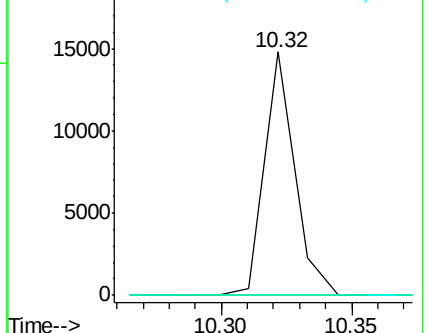
#50  
 2,6-Dinitrotoluene  
 Concen: 8.17 ng  
 RT: 10.32 min Scan# 633  
 Delta R.T. 0.23 min  
 Lab File: BF080298.D  
 Acq: 2 Jul 2015 5:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84309TB

Tgt Ion:165 Resp: 11973  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 23.4 35.0#  
 89 0.0 27.7 41.5#



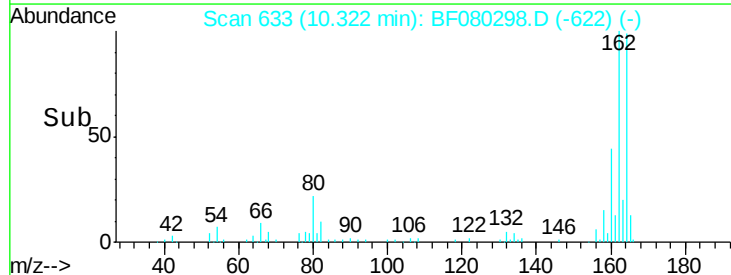
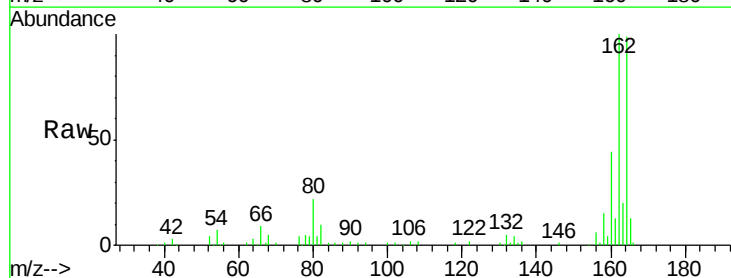
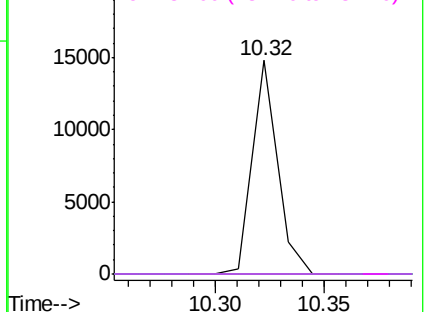
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

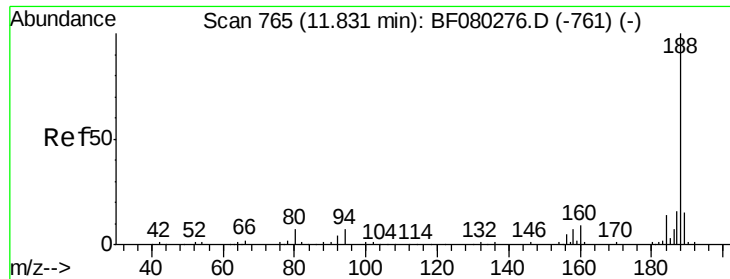


#56  
 2,4-Dinitrotoluene  
 Concen: 6.30 ng  
 RT: 10.32 min Scan# 633  
 Delta R.T. -0.17 min  
 Lab File: BF080298.D  
 Acq: 2 Jul 2015 5:49

Tgt Ion:165 Resp: 11974  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 38.7 58.1#  
 89 0.0 62.0 93.0#  
 182 0.0 1.8 2.8#

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

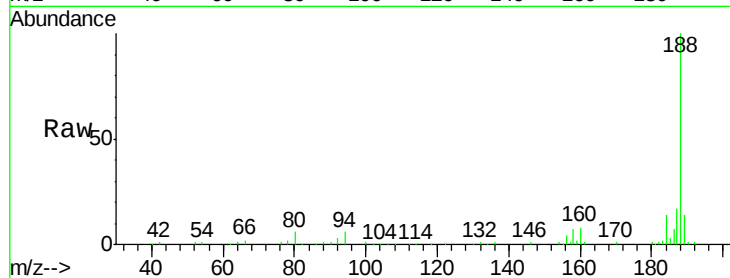




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.83 min Scan# 765  
Delta R.T. 0.00 min  
Lab File: BF080298.D  
Acq: 2 Jul 2015 5:49

Instrument :  
BNA\_F  
ClientSampleId :  
PB84309TB

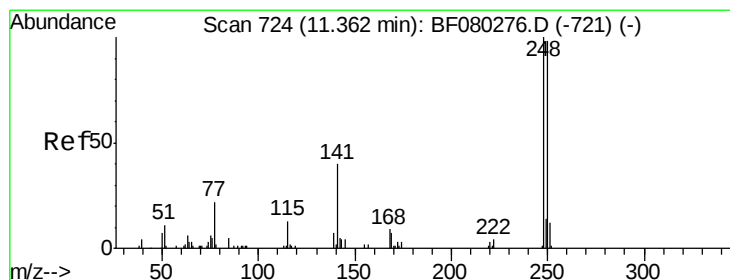
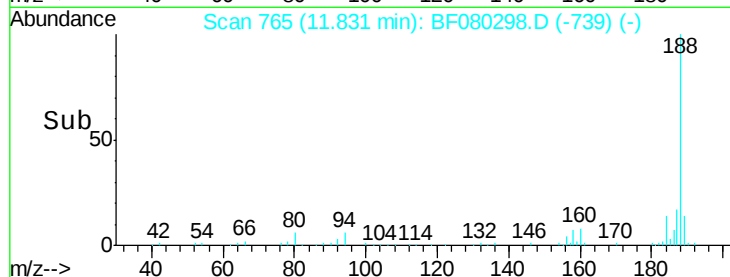
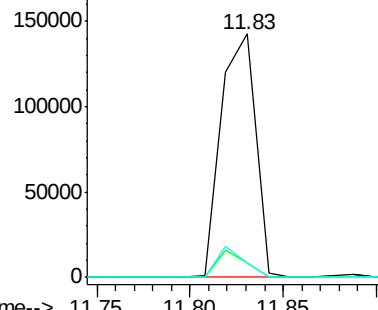
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 182895 |       |       |
| 94      | 5.9   |        | 5.4   | 8.0   |
| 80      | 6.1   |        | 5.8   | 8.6   |



Abundance Ion 188.00 (187.70 to 188.70): E

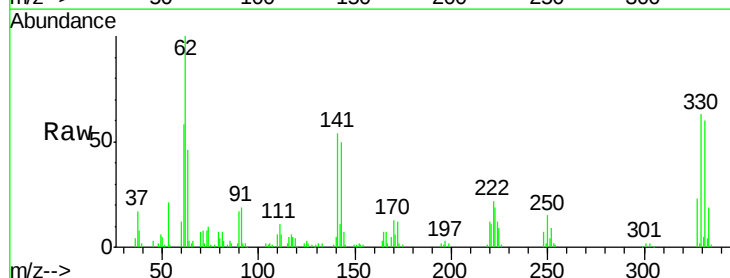
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66  
4-Bromophenyl-phenylether  
Concen: 3.31 ng  
RT: 11.11 min Scan# 702  
Delta R.T. -0.25 min  
Lab File: BF080298.D  
Acq: 2 Jul 2015 5:49

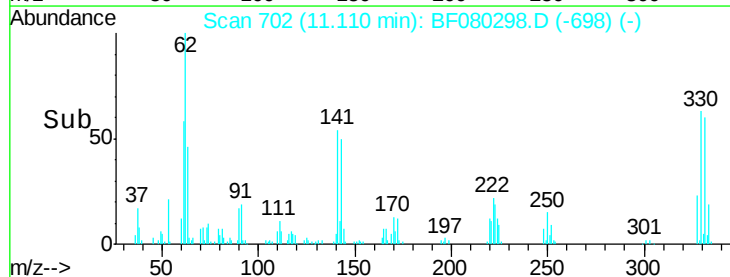
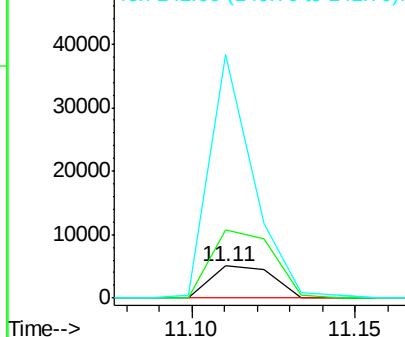
| Tgt Ion | Ratio | Resp | Lower | Upper  |
|---------|-------|------|-------|--------|
| 248     | 100   | 6540 |       |        |
| 250     | 212.5 |      | 78.2  | 117.4# |
| 141     | 759.1 |      | 31.9  | 47.9#  |

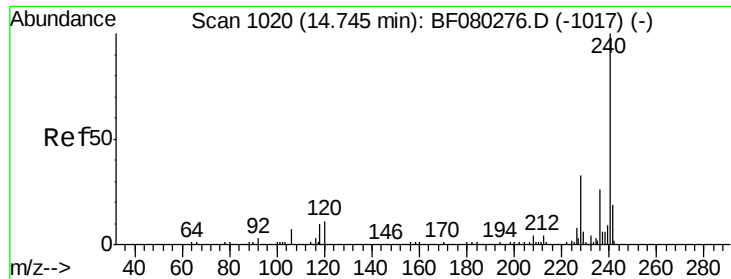


Abundance Ion 248.00 (247.70 to 248.70): E

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: 14.76 min Scan# 1021

Delta R.T. 0.01 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

Instrument :

BNA\_F

ClientSampleId :

PB84309TB

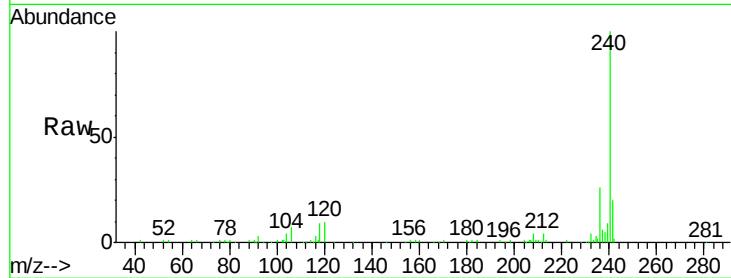
Tgt Ion:240 Resp: 169548

Ion Ratio Lower Upper

240 100

120 10.2 8.7 13.1

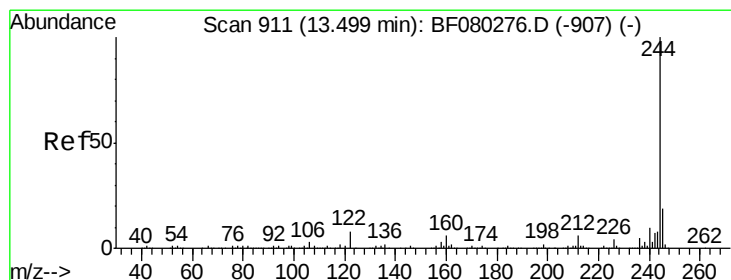
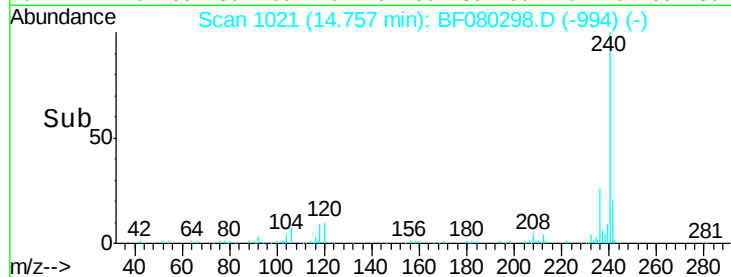
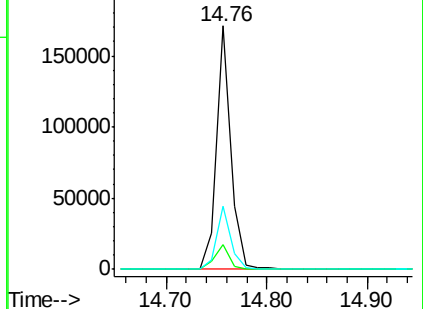
236 26.1 20.9 31.3



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: 74.47 ng

RT: 13.50 min Scan# 911

Delta R.T. 0.00 min

Lab File: BF080298.D

Acq: 2 Jul 2015 5:49

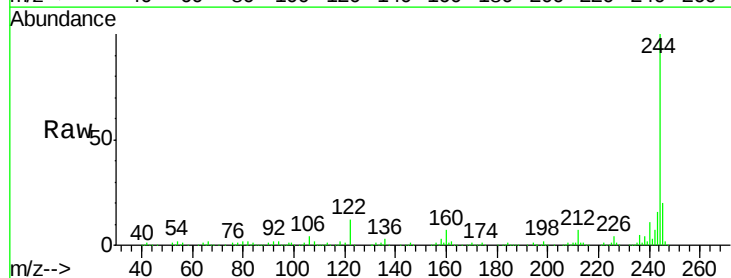
Tgt Ion:244 Resp: 539039

Ion Ratio Lower Upper

244 100

212 7.2 5.0 7.6

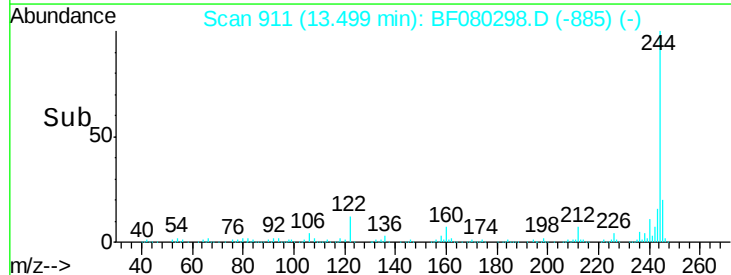
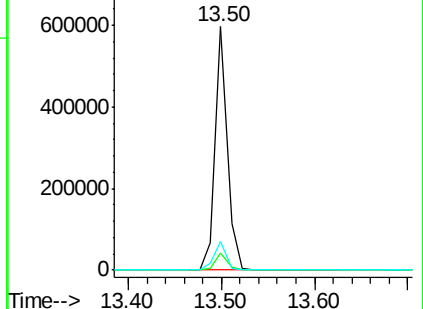
122 11.6 6.6 9.8#

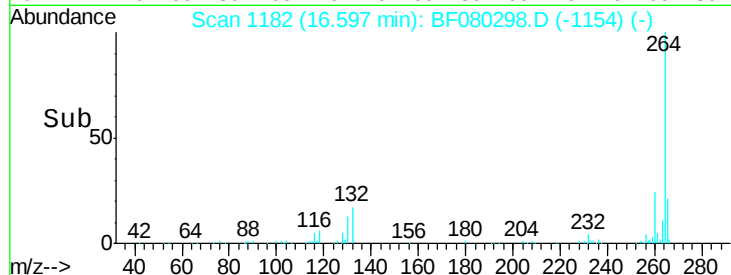
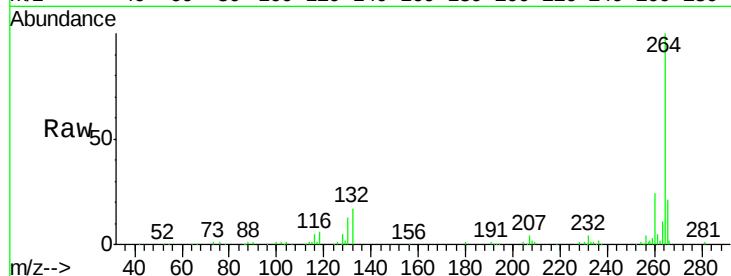
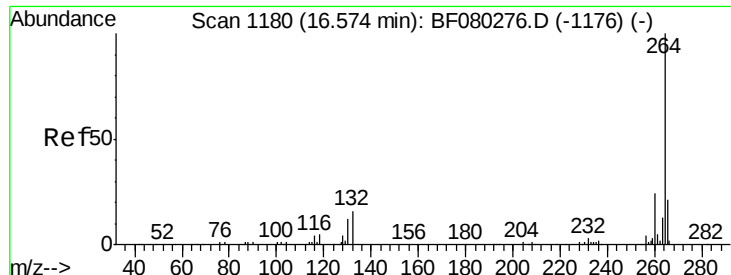


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 16.60 min Scan# 1182  
Delta R.T. 0.02 min  
Lab File: BF080298.D  
Acq: 2 Jul 2015 5:49

Instrument :  
BNA\_F  
ClientSampleId :  
PB84309TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 155485 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.9  | 19.2  | 28.8   |
| 265      | 21.4  | 16.9  | 25.3   |

