

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020116\  
 Data File : BF084719.D  
 Acq On : 1 Feb 2016 19:53  
 Operator : SJ/IZ  
 Sample : PB88019BL  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88019BL

Quant Time: Feb 02 00:32:53 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 01 14:55:11 2016  
 Response via : Initial Calibration

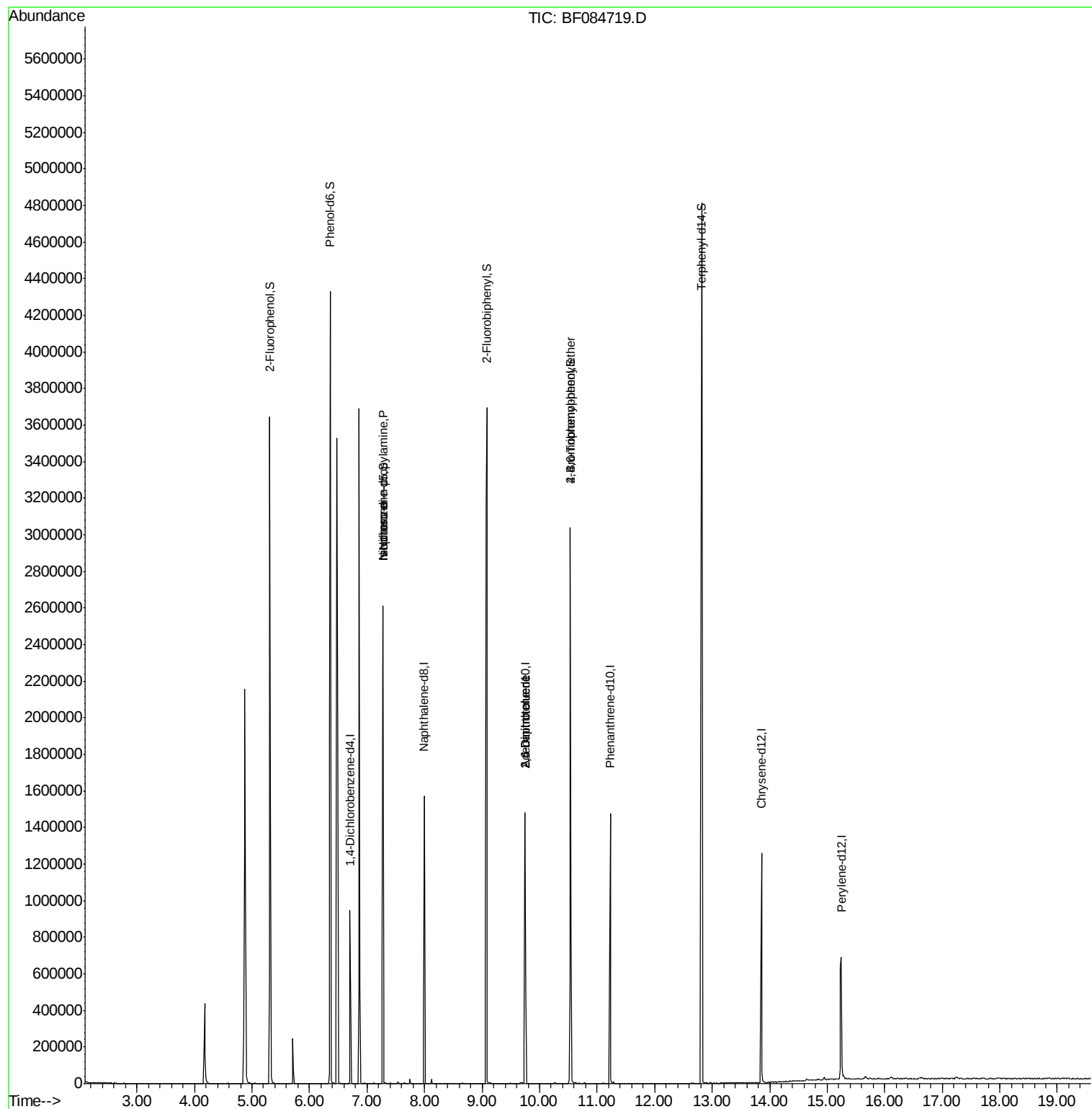
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 161124   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.00  | 136  | 700175   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.74  | 164  | 314224   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.23 | 188  | 644135   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.86 | 240  | 523292   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.24 | 264  | 372759   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.31  | 112  | 1143441  | 110.54 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.36  | 99   | 1493611  | 116.47 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 841548   | 67.71  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 384471   | 117.30 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1739589  | 98.46  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.82 | 244  | 1750177  | 75.79  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 118036   | 14.68  | ng    | # 71     |
| 25) Isophorone                 | 7.28  | 82   | 691814   | 28.62  | ng    | # 66     |
| 50) 2,6-Dinitrotoluene         | 9.74  | 165  | 41226    | 7.89   | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.74  | 165  | 41226    | 6.18   | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 23369    | 3.28   | ng    | # 1      |

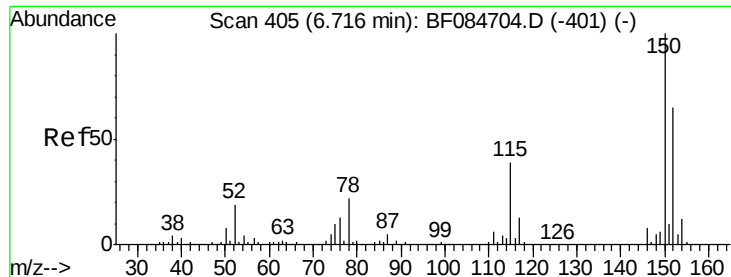
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020116\  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
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Quant Time: Feb 02 00:32:53 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
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QLast Update : Mon Feb 01 14:55:11 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 404

Delta R.T. -0.02 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Instrument :

BNA\_F

ClientSampleId :

PB88019BL

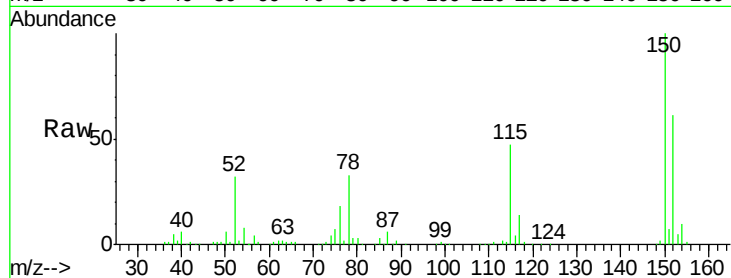
Tgt Ion:152 Resp: 161124

Ion Ratio Lower Upper

152 100

150 163.4 123.0 184.4

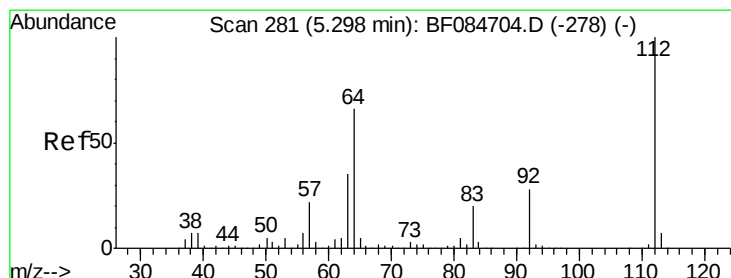
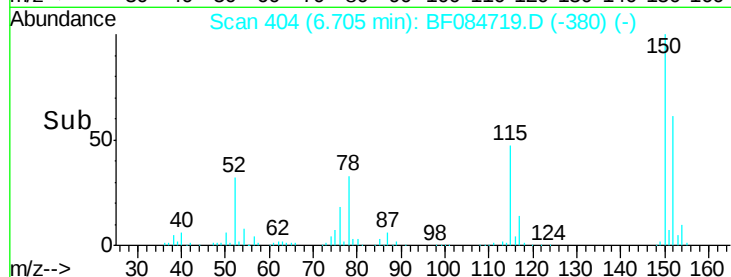
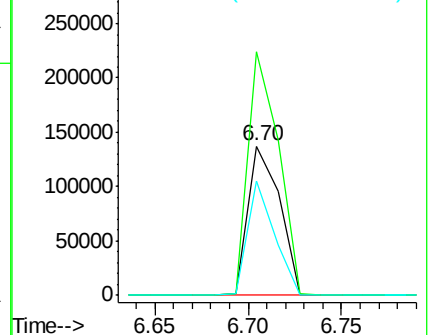
115 77.0 51.4 77.2



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: 110.54 ng

RT: 5.31 min Scan# 282

Delta R.T. 0.00 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

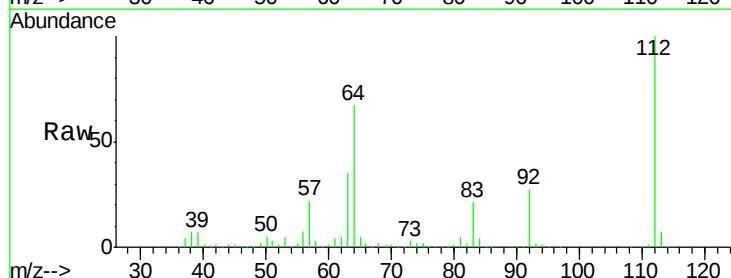
Tgt Ion:112 Resp: 1143441

Ion Ratio Lower Upper

112 100

64 67.3 36.6 55.0#

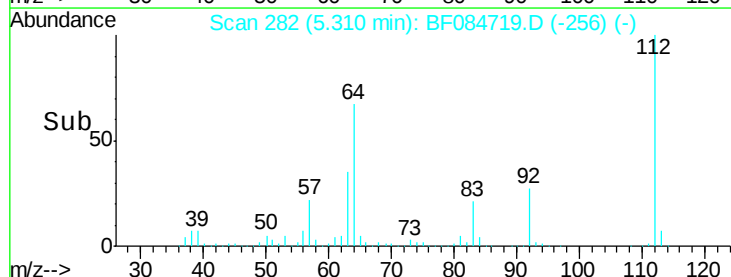
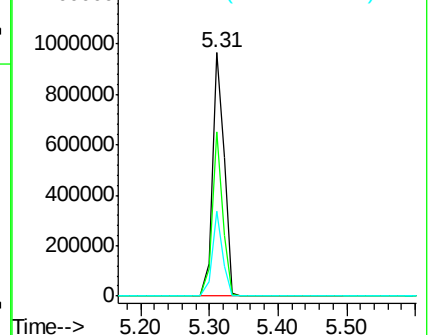
63 34.8 19.4 29.0#

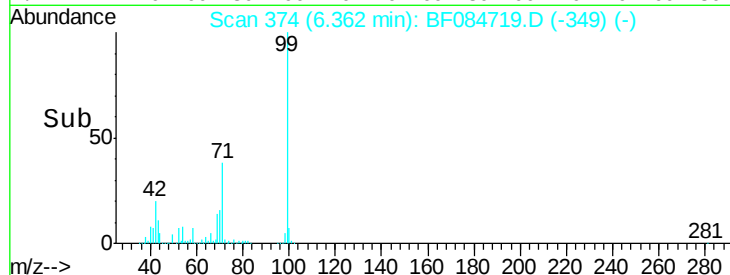
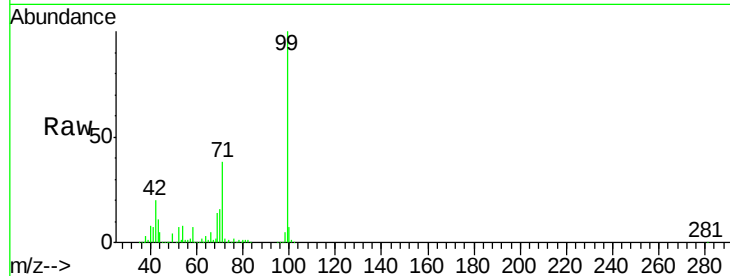
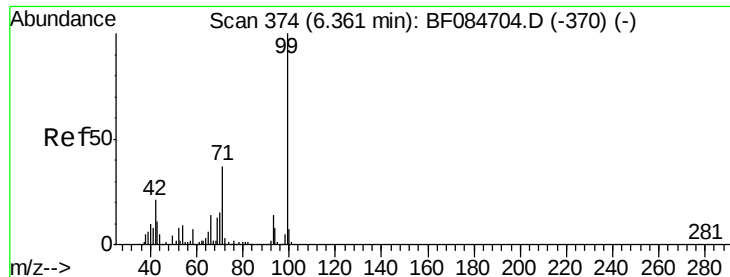


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 116.47 ng

RT: 6.36 min Scan# 374

Delta R.T. -0.01 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Instrument :

BNA\_F

ClientSampleId :

PB88019BL

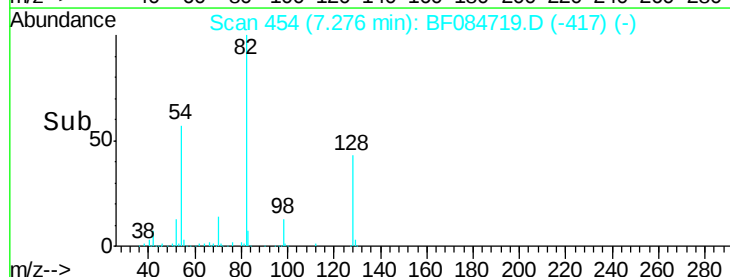
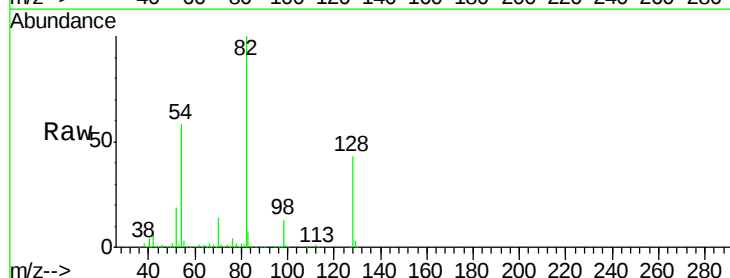
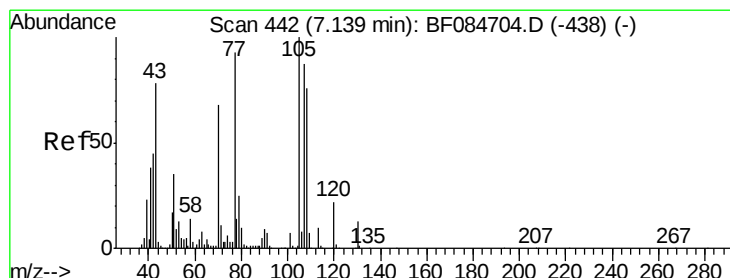
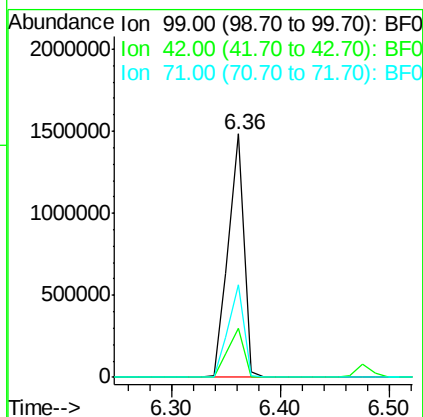
Tgt Ion: 99 Resp: 1493611

Ion Ratio Lower Upper

99 100

42 20.4 12.8 19.2#

71 37.8 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 14.68 ng

RT: 7.28 min Scan# 454

Delta R.T. 0.13 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Tgt Ion: 70 Resp: 118036

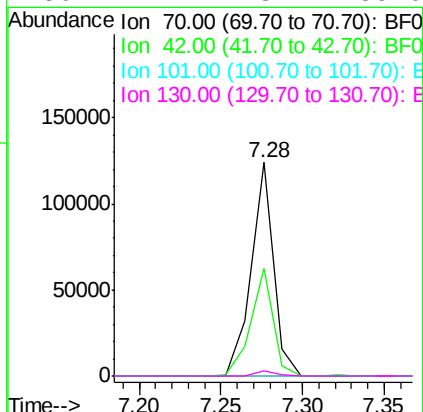
Ion Ratio Lower Upper

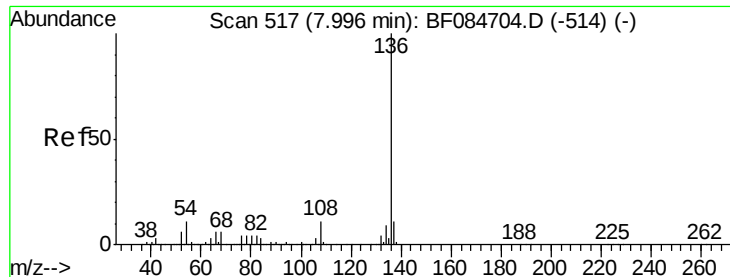
70 100

42 50.3 33.3 49.9#

101 0.0 9.3 13.9#

130 2.1 23.4 35.0#

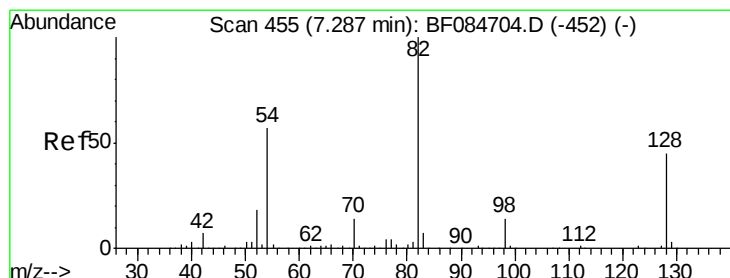
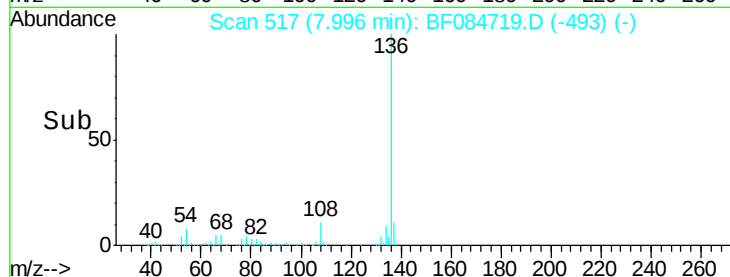
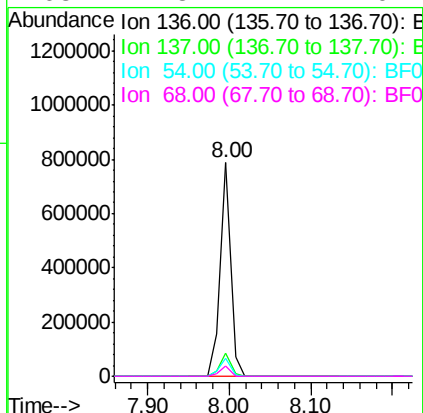
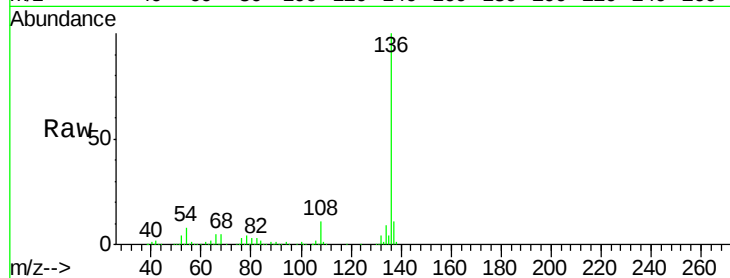




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 517  
Delta R.T. -0.02 min  
Lab File: BF084719.D  
Acq: 1 Feb 2016 19:53

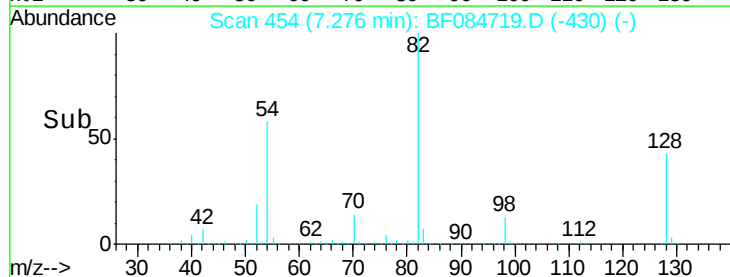
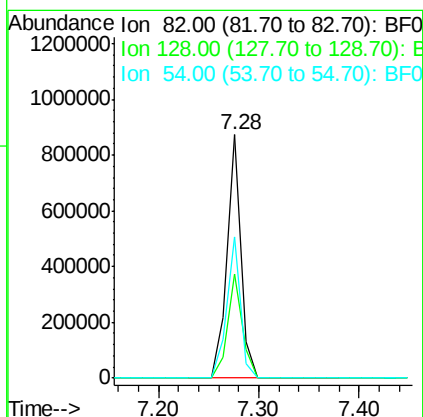
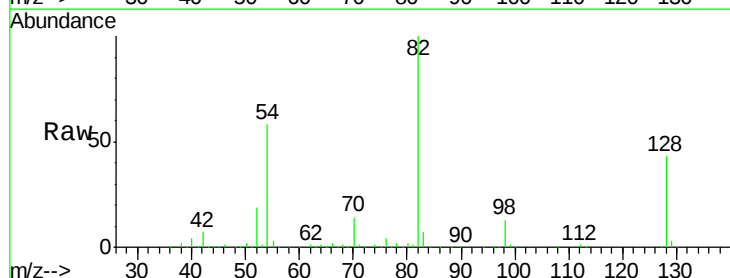
Instrument :  
BNA\_F  
ClientSampleId :  
PB88019BL

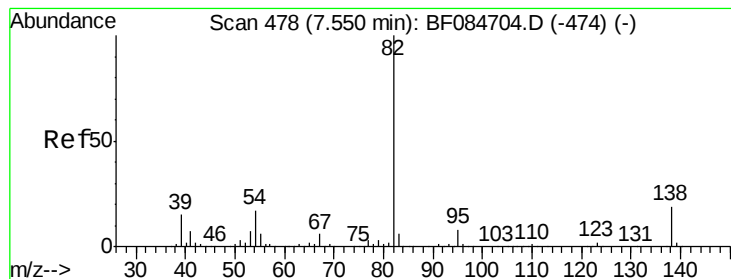
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 700175 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.7   | 13.1   |
| 54       | 8.4   | 5.8   | 8.8    |
| 68       | 4.8   | 4.2   | 6.2    |



#23  
Nitrobenzene-d5  
Concen: 67.71 ng  
RT: 7.28 min Scan# 454  
Delta R.T. -0.02 min  
Lab File: BF084719.D  
Acq: 1 Feb 2016 19:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 841548 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.8  | 34.6  | 51.8   |
| 54       | 58.2  | 38.4  | 57.6#  |





#25

Isophorone

Concen: 28.62 ng

RT: 7.28 min Scan# 454

Delta R.T. -0.29 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Instrument :

BNA\_F

ClientSampleID :

PB88019BL

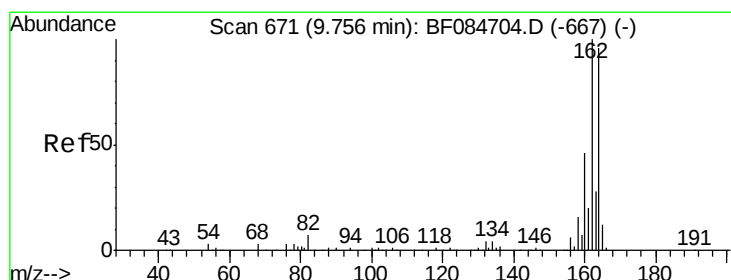
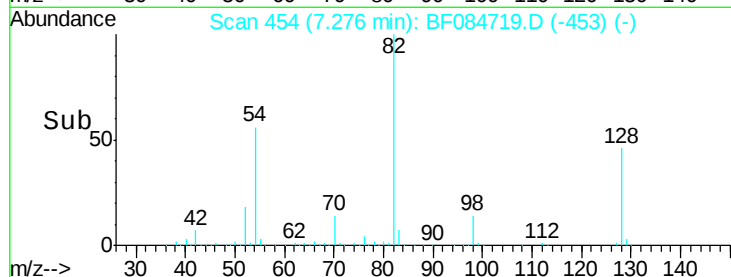
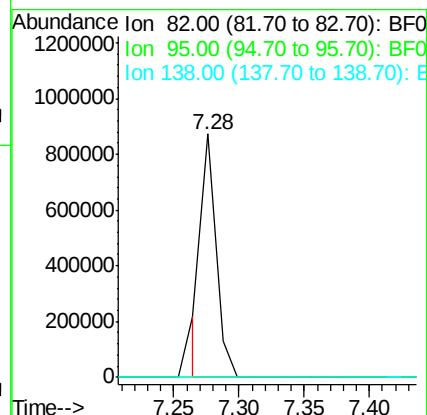
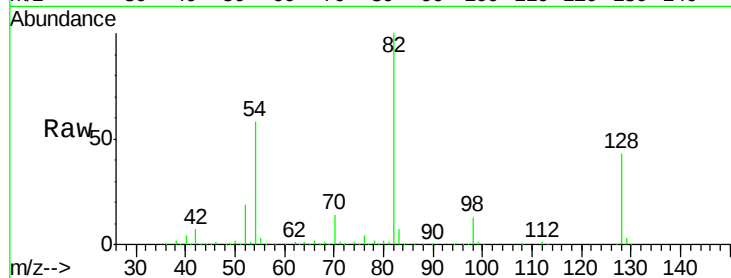
Tgt Ion: 82 Resp: 691814

Ion Ratio Lower Upper

82 100

95 0.0 6.6 10.0#

138 0.0 13.6 20.4#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.74 min Scan# 670

Delta R.T. -0.02 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

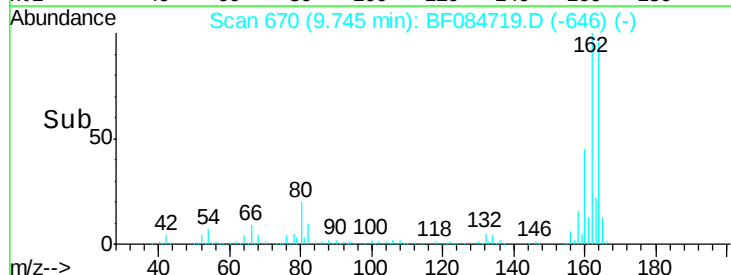
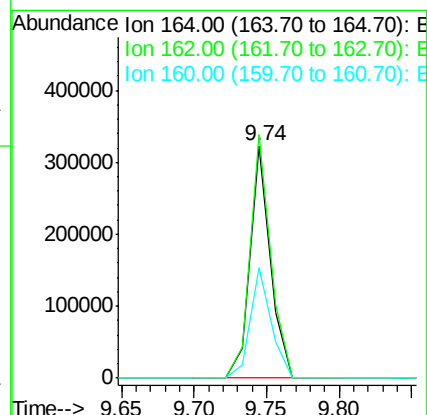
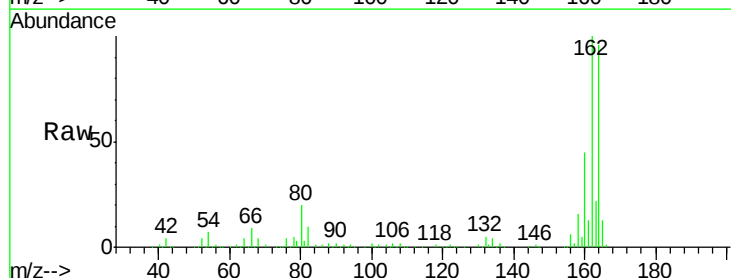
Tgt Ion: 164 Resp: 314224

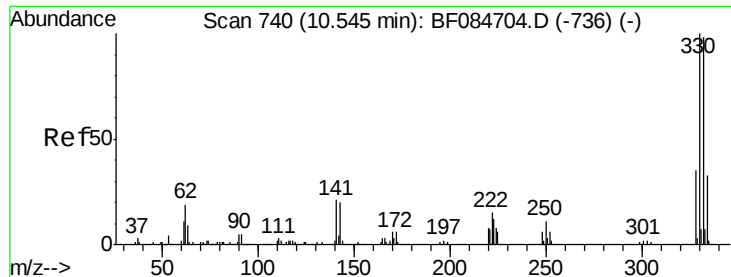
Ion Ratio Lower Upper

164 100

162 104.7 85.1 127.7

160 47.5 37.5 56.3

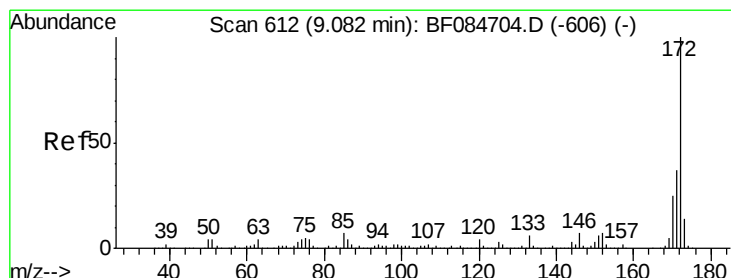
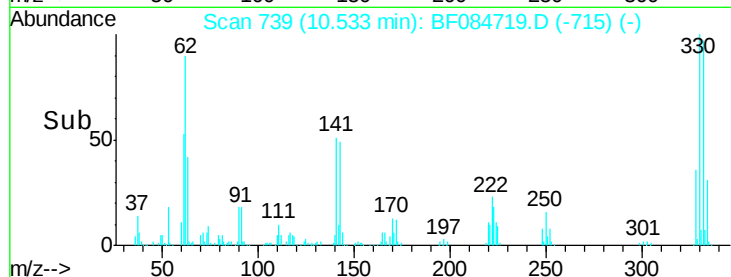
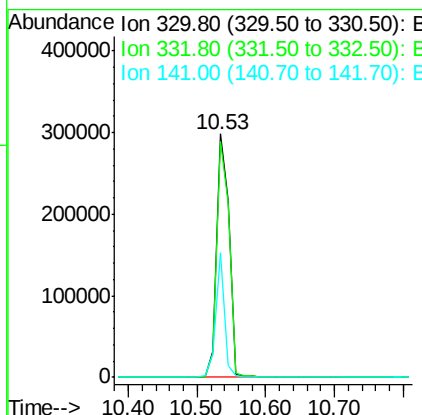
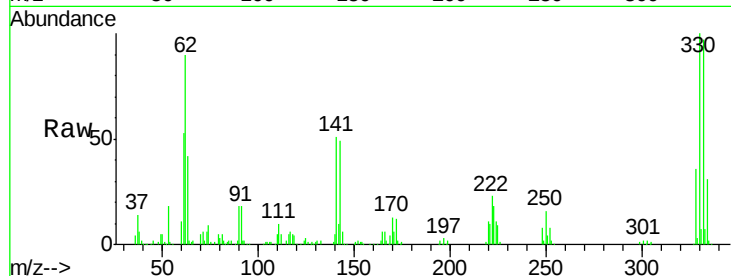




#41  
 2,4,6-Tribromophenol  
 Concen: 117.30 ng  
 RT: 10.53 min Scan# 739  
 Delta R.T. -0.02 min  
 Lab File: BF084719.D  
 Acq: 1 Feb 2016 19:53

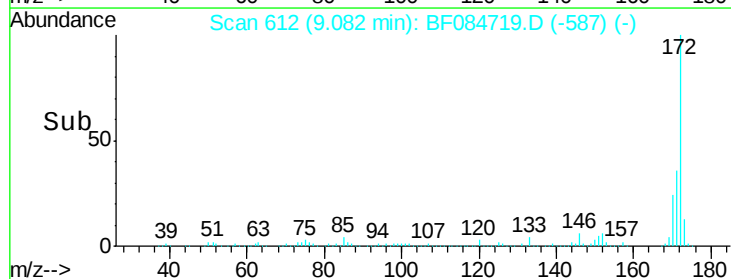
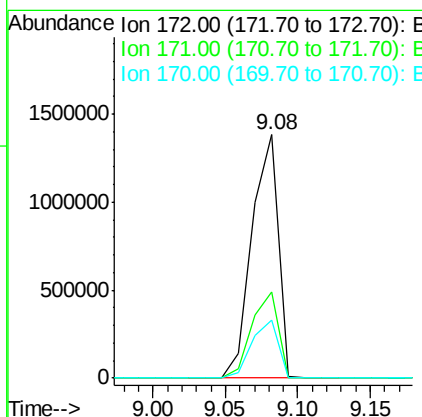
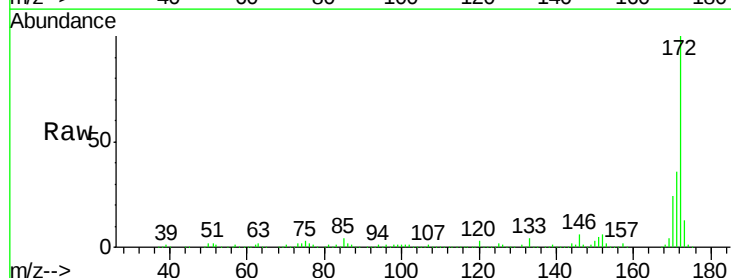
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88019BL

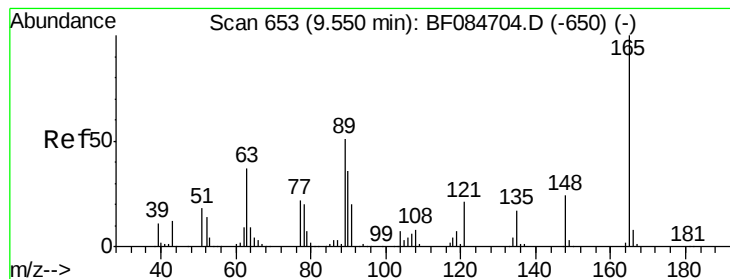
Tgt Ion:330 Resp: 384471  
 Ion Ratio Lower Upper  
 330 100  
 332 97.6 76.6 114.8  
 141 35.8 27.8 41.6



#44  
 2-Fluorobiphenyl  
 Concen: 98.46 ng  
 RT: 9.08 min Scan# 612  
 Delta R.T. -0.01 min  
 Lab File: BF084719.D  
 Acq: 1 Feb 2016 19:53

Tgt Ion:172 Resp: 1739589  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 28.9 43.3  
 170 24.0 18.6 27.8





#50

2,6-Dinitrotoluene

Concen: 7.89 ng

RT: 9.74 min Scan# 670

Delta R.T. 0.18 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Instrument :

BNA\_F

ClientSampleId :

PB88019BL

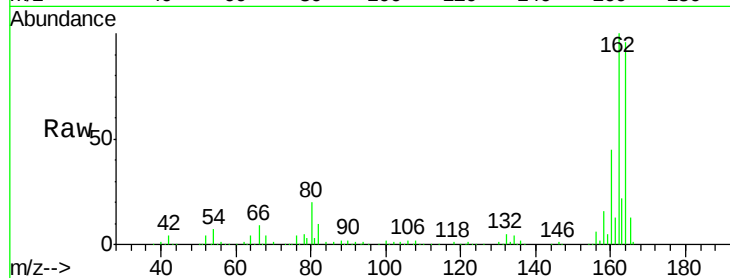
Tgt Ion:165 Resp: 41226

Ion Ratio Lower Upper

165 100

63 1.2 28.8 43.2#

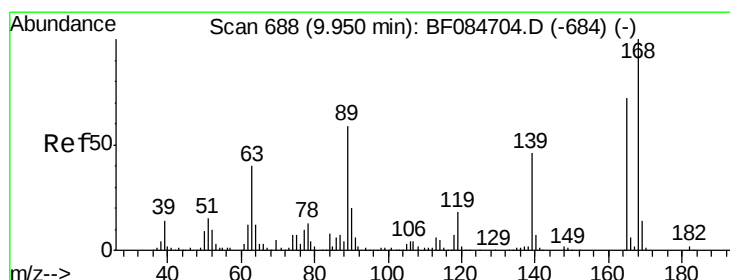
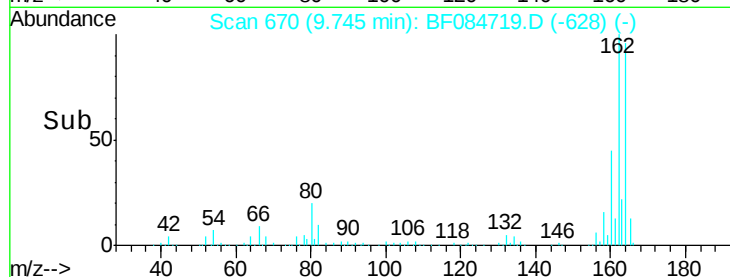
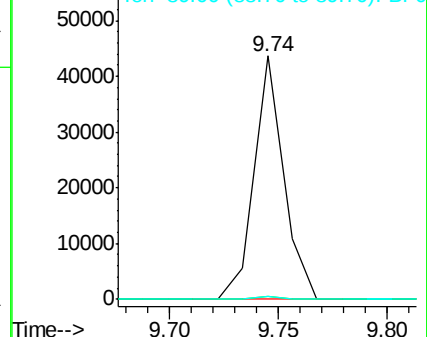
89 1.4 35.1 52.7#



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: 6.18 ng

RT: 9.74 min Scan# 670

Delta R.T. -0.22 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Tgt Ion:165 Resp: 41226

Ion Ratio Lower Upper

165 100

63 1.2 36.7 55.1#

89 1.4 61.9 92.9#

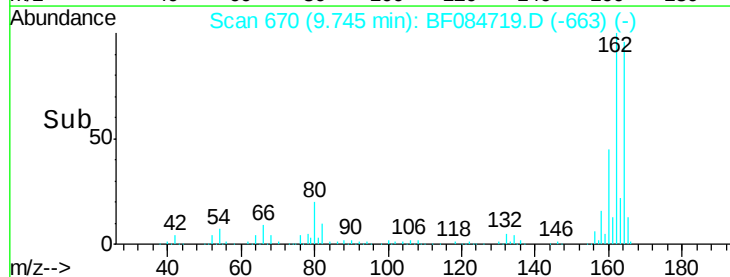
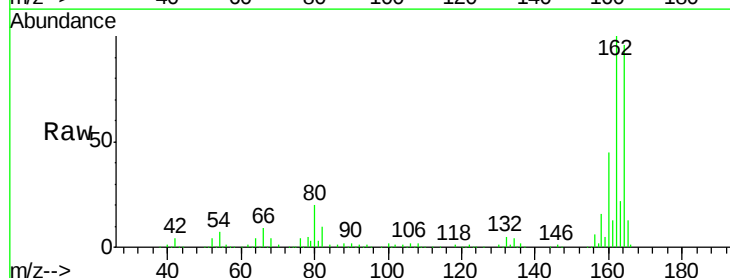
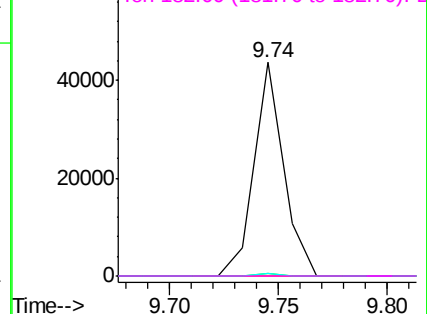
182 0.0 2.0 3.0#

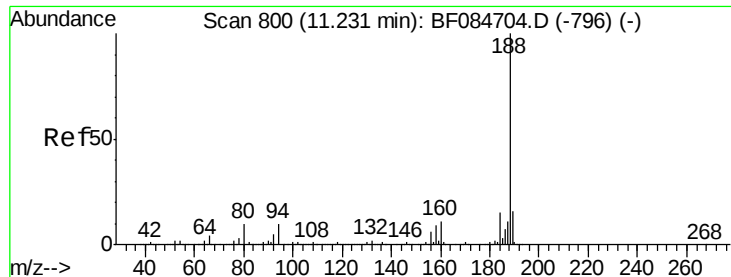
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.23 min Scan# 800

Delta R.T. -0.01 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Instrument :

BNA\_F

ClientSampleId :

PB88019BL

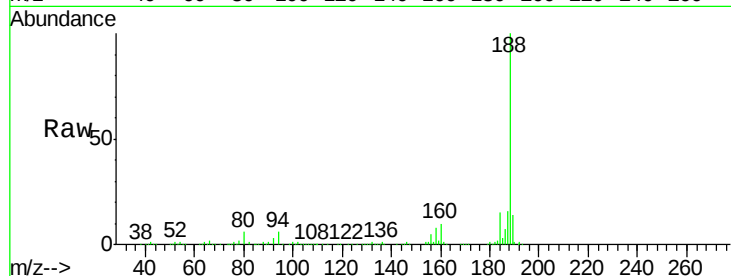
Tgt Ion:188 Resp: 644135

Ion Ratio Lower Upper

188 100

94 6.4 9.0 13.4#

80 6.4 9.6 14.4#



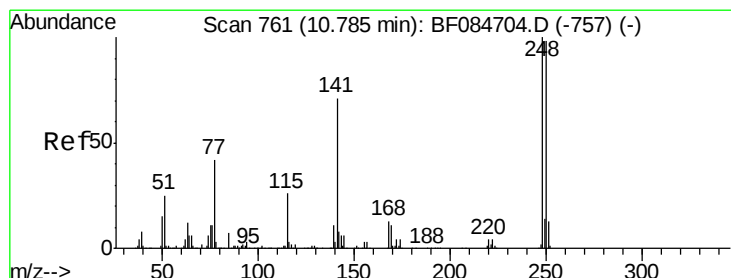
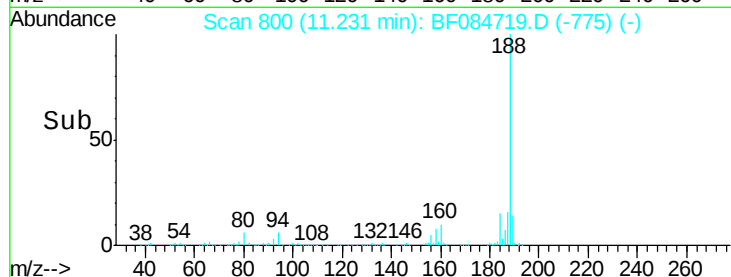
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

11.23

Time-->



#66

4-Bromophenyl-phenylether

Concen: 3.28 ng

RT: 10.53 min Scan# 739

Delta R.T. -0.26 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

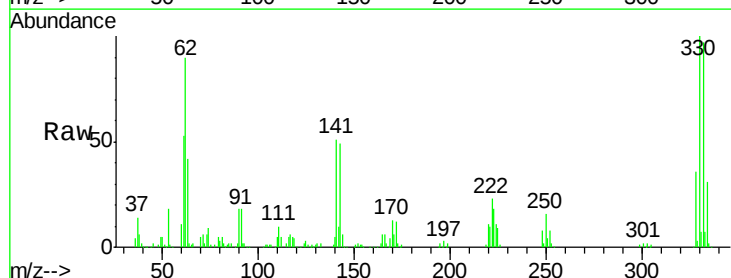
Tgt Ion:248 Resp: 23369

Ion Ratio Lower Upper

248 100

250 202.5 78.4 117.6#

141 659.9 44.0 66.0#



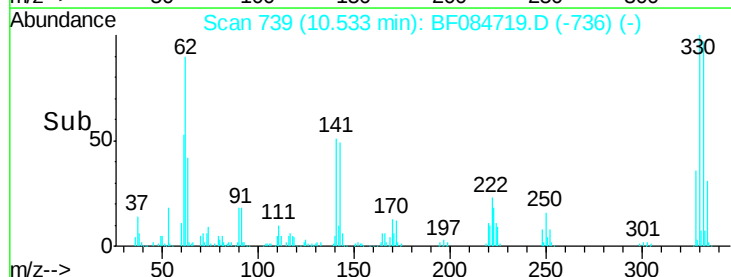
Abundance Ion 248.00 (247.70 to 248.70): E

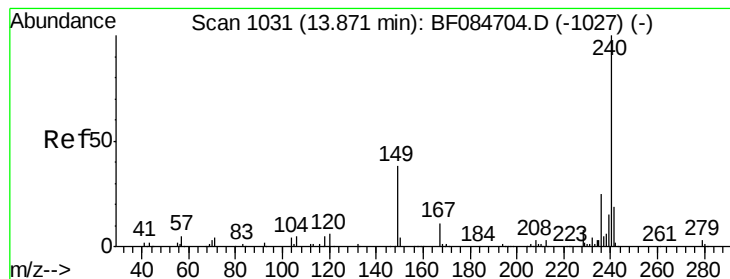
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

10.53

Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

Instrument :

BNA\_F

ClientSampleId :

PB88019BL

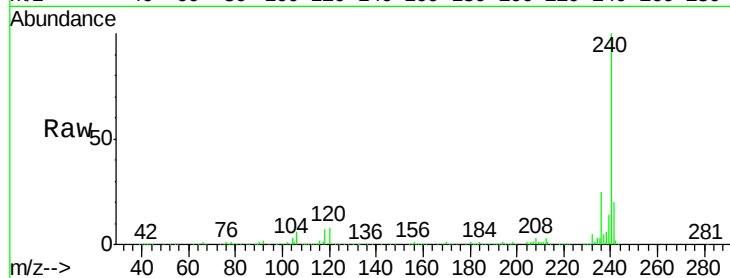
Tgt Ion:240 Resp: 523292

Ion Ratio Lower Upper

240 100

120 8.0 9.5 14.3#

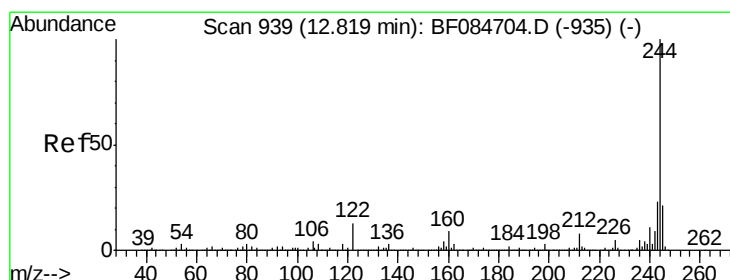
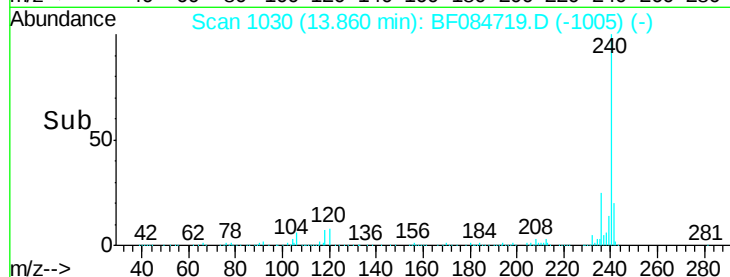
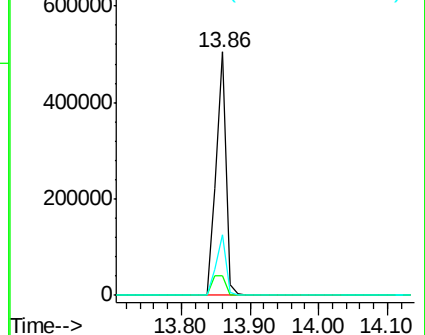
236 25.1 20.6 31.0



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: 75.79 ng

RT: 12.82 min Scan# 939

Delta R.T. -0.01 min

Lab File: BF084719.D

Acq: 1 Feb 2016 19:53

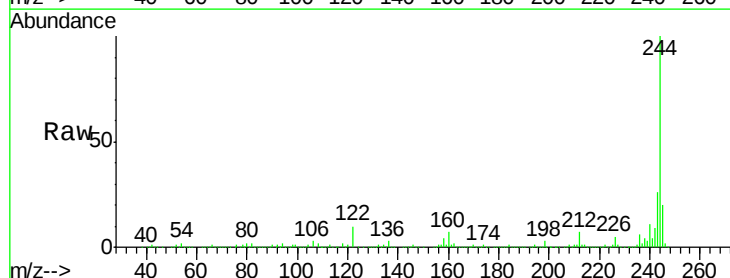
Tgt Ion:244 Resp: 1750177

Ion Ratio Lower Upper

244 100

212 7.4 5.7 8.5

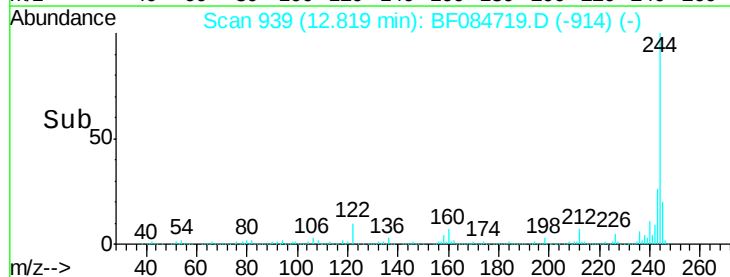
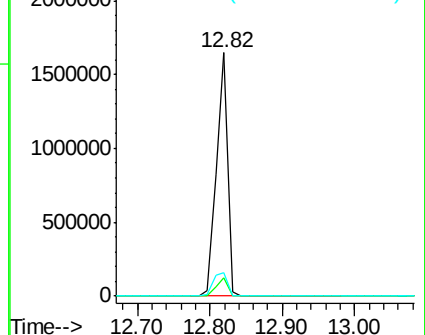
122 9.6 7.4 11.0

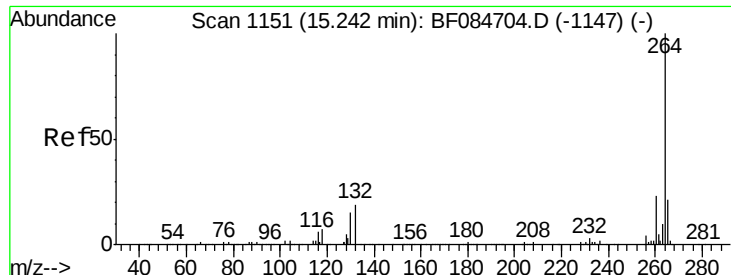


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

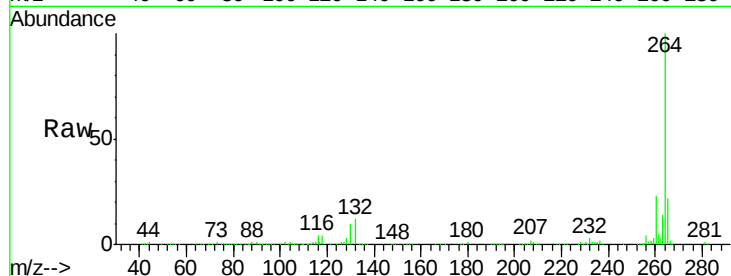




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.24 min Scan# 1151  
Delta R.T. -0.01 min  
Lab File: BF084719.D  
Acq: 1 Feb 2016 19:53

Instrument :  
BNA\_F  
ClientSampleId :  
PB88019BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 19.4  | 29.2  |
| 265     | 21.9  | 17.8  | 26.6  |



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

