

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061816\  
 Data File : BF088166.D  
 Acq On : 19 Jun 2016 7:09  
 Operator : UM/SJ  
 Sample : H3628-11  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-11

Quant Time: Jun 19 07:55:37 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 17 16:09:13 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.68  | 152  | 91605    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 7.98  | 136  | 320663   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.72  | 164  | 127813   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.20 | 188  | 210451   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.83 | 240  | 174737   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.21 | 264  | 128840   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.28  | 112  | 328619   | 61.33  | ng    | 0.00     |
| 7) Phenol-d6                | 6.34  | 99   | 264772   | 40.77  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 488328   | 88.93  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.51 | 330  | 143401   | 106.26 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.05  | 172  | 771196   | 95.47  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.79 | 244  | 612317   | 79.74  | ng    | -0.01    |

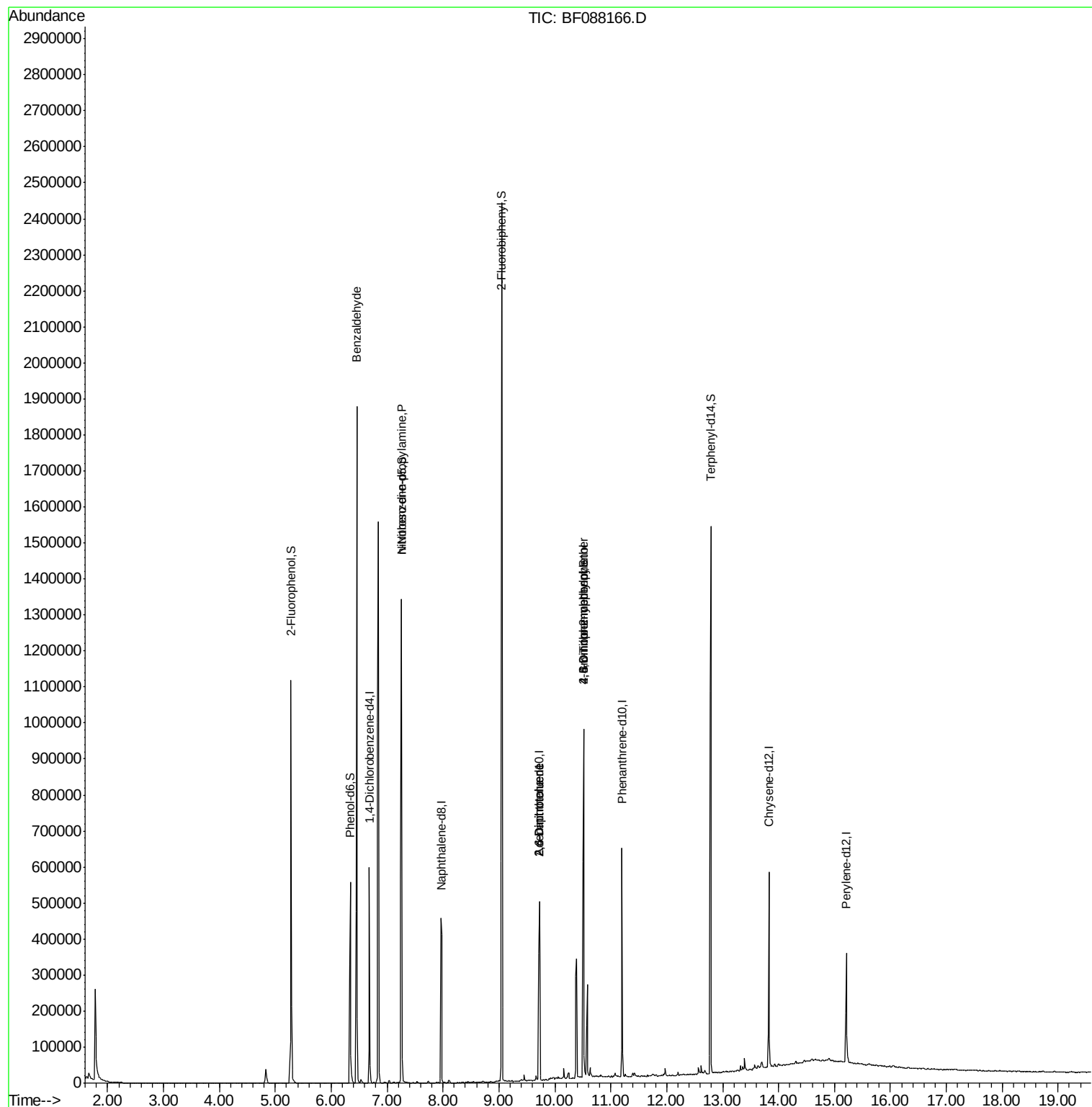
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.46  | 77   | 11392    | 2.55      | ng    | # 72   |
| 10) Phenol                     | 6.35  | 94   | 784      | Below Cal |       | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 65377    | 15.74     | ng    | # 69   |
| 45) 1,1'-Biphenyl              | 9.05  | 154  | 1553     | Below Cal |       | # 1    |
| 50) 2,6-Dinitrotoluene         | 9.72  | 165  | 16201    | 7.64      | ng    | # 37   |
| 56) 2,4-Dinitrotoluene         | 9.72  | 165  | 16201    | 5.95      | ng    | # 36   |
| 57) Fluorene                   | 10.51 | 166  | 7370     | Below Cal |       | # 92   |
| 64) 4,6-Dinitro-2-methylphenol | 10.51 | 198  | 241      | 2.34      | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.51 | 248  | 9548     | 4.23      | ng    | # 1    |

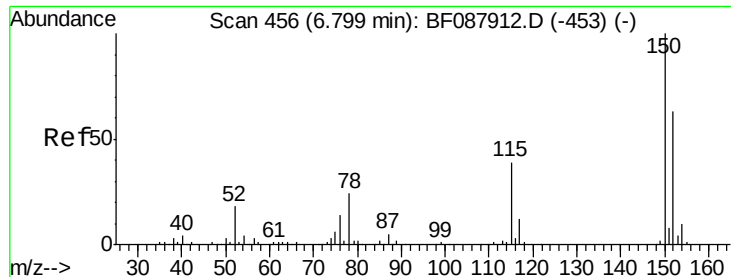
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 446

Delta R.T. -0.01 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Instrument :

BNA\_F

ClientSampleId :

W-11

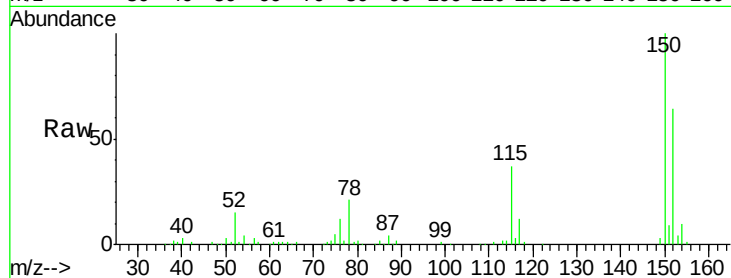
Tgt Ion:152 Resp: 91605

Ion Ratio Lower Upper

152 100

150 156.7 123.8 185.6

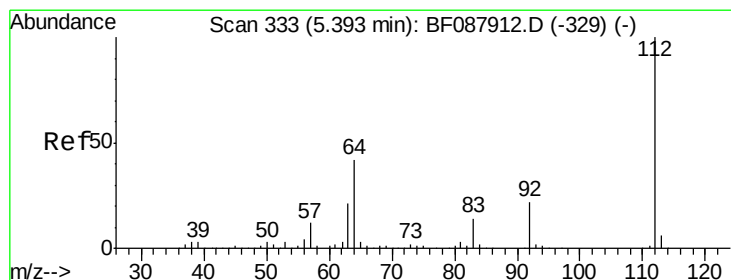
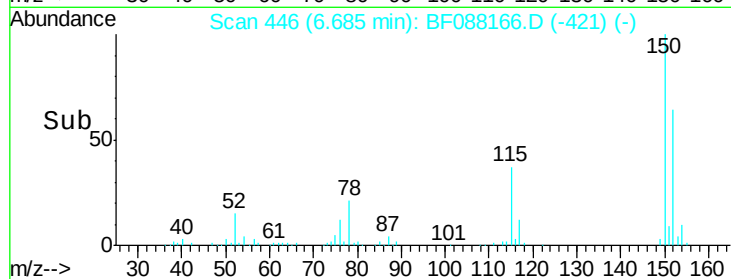
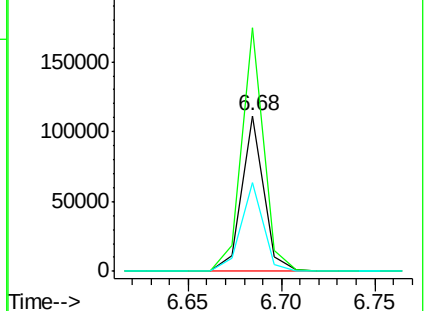
115 57.3 39.6 59.4



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: 61.33 ng

RT: 5.28 min Scan# 323

Delta R.T. -0.00 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

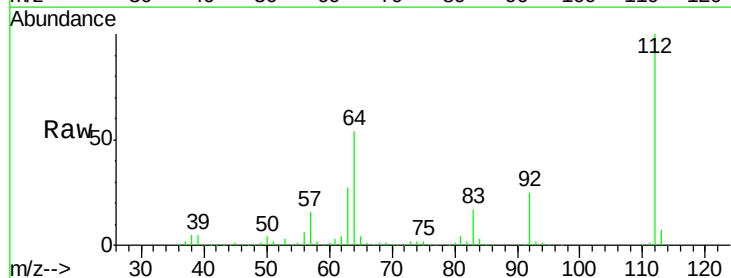
Tgt Ion:112 Resp: 328619

Ion Ratio Lower Upper

112 100

64 53.7 42.2 63.2

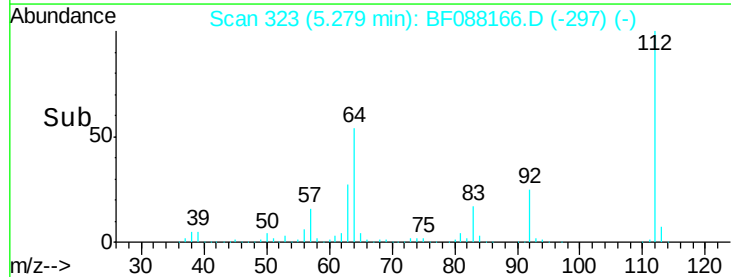
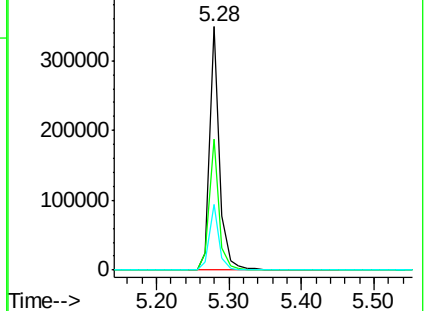
63 27.1 21.8 32.8

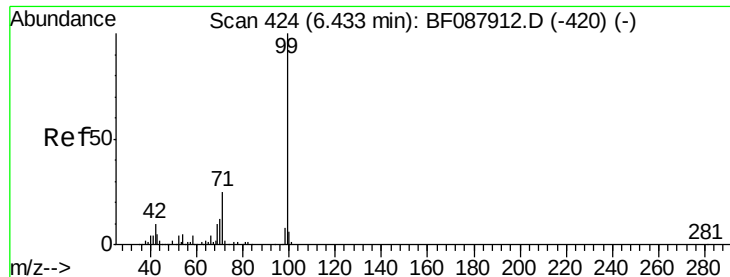


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 40.77 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Instrument :

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ClientSampleId :

W-11

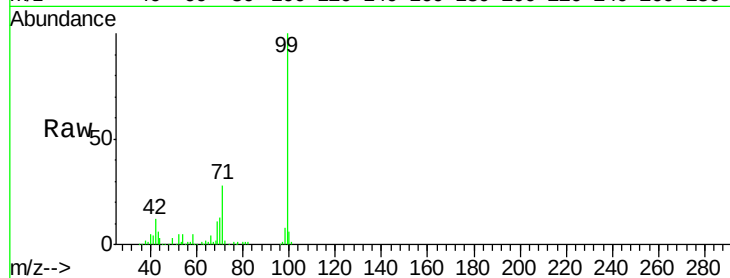
Tgt Ion: 99 Resp: 264772

Ion Ratio Lower Upper

99 100

42 12.1 12.2 18.2#

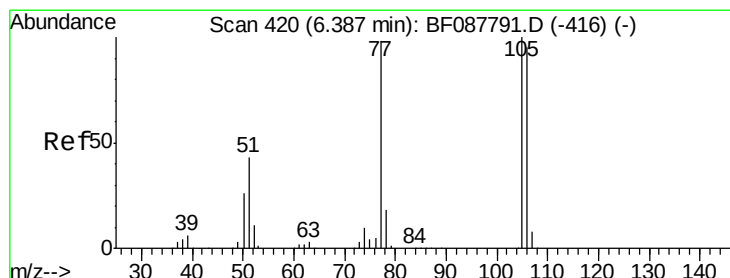
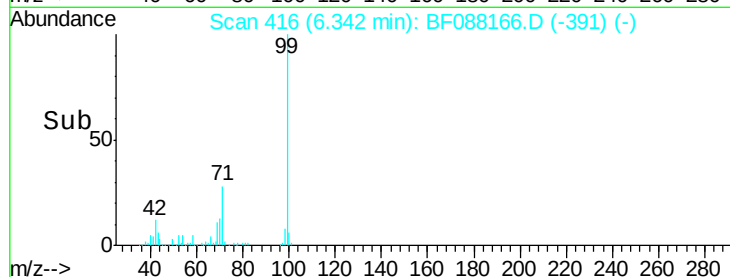
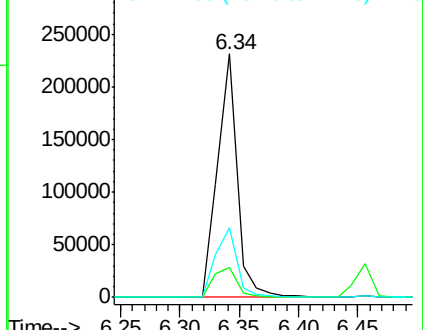
71 28.5 23.4 35.0



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



#9

Benzaldehyde

Concen: 2.55 ng

RT: 6.46 min Scan# 426

Delta R.T. 0.22 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

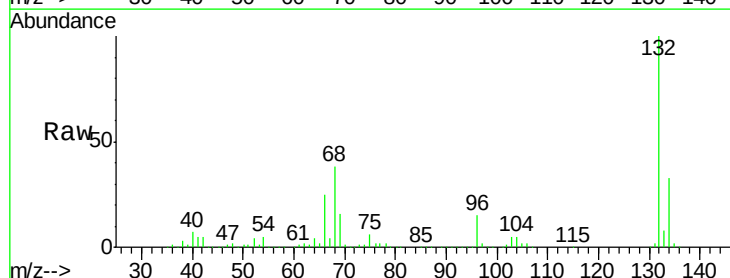
Tgt Ion: 77 Resp: 11392

Ion Ratio Lower Upper

77 100

105 80.6 90.6 130.6#

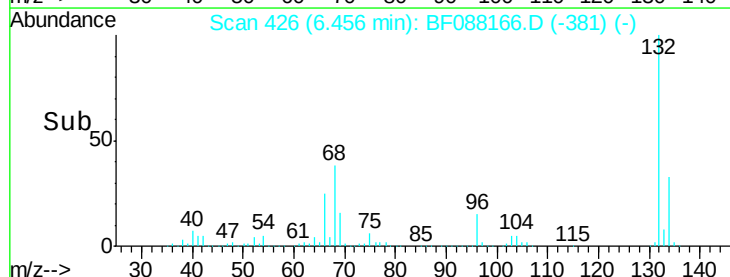
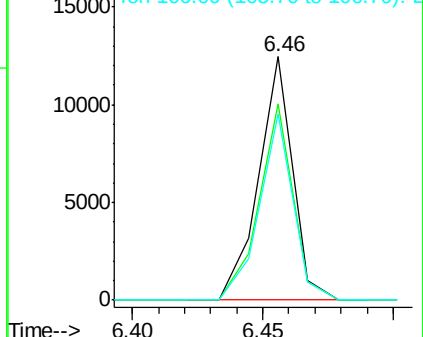
106 76.3 85.3 125.3#

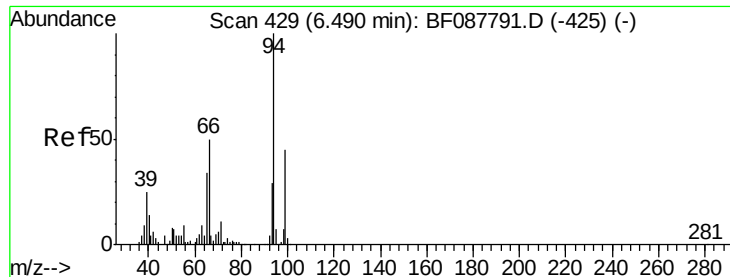


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: Below Cal

RT: 6.35 min Scan# 417

Delta R.T. -0.01 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Instrument :

BNA\_F

ClientSampleId :

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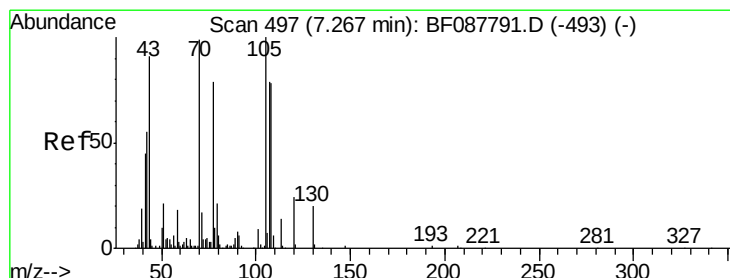
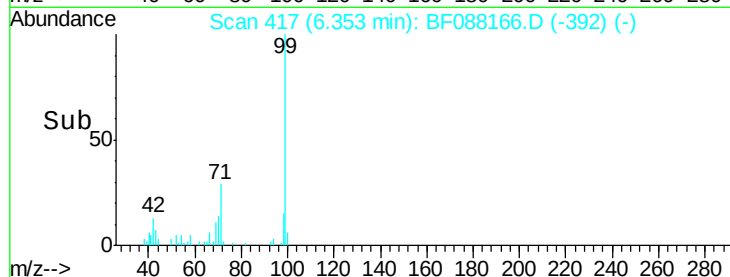
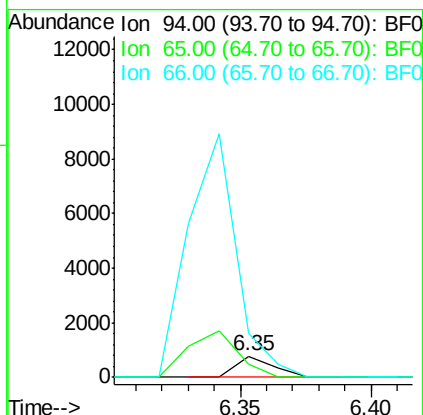
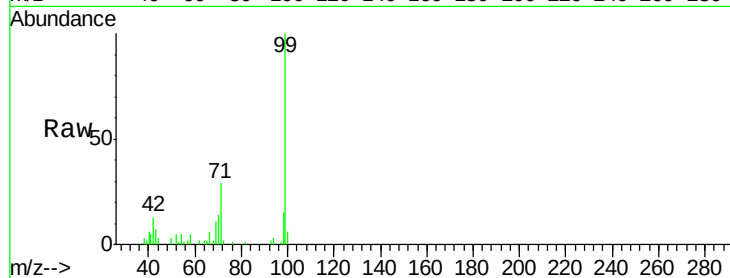
Tgt Ion: 94 Resp: 784

Ion Ratio Lower Upper

94 100

65 60.8 5.9 45.9#

66 208.6 14.0 54.0#



#19

n-Nitroso-di-n-propylamine

Concen: 15.74 ng

RT: 7.26 min Scan# 496

Delta R.T. 0.13 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Tgt Ion: 70 Resp: 65377

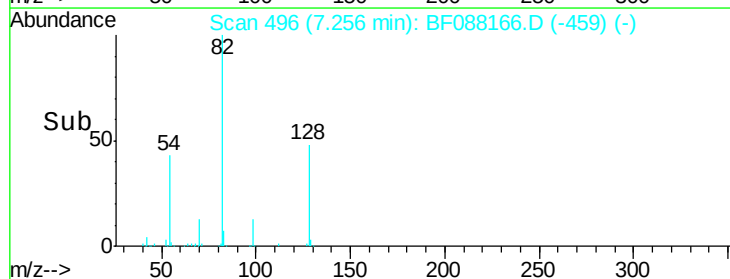
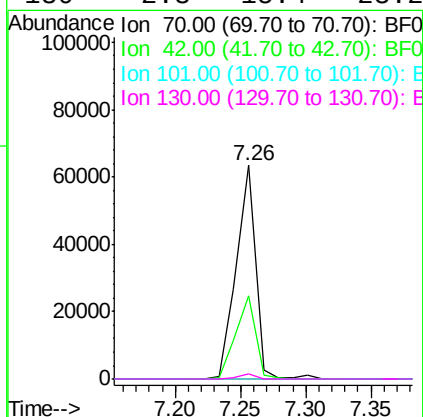
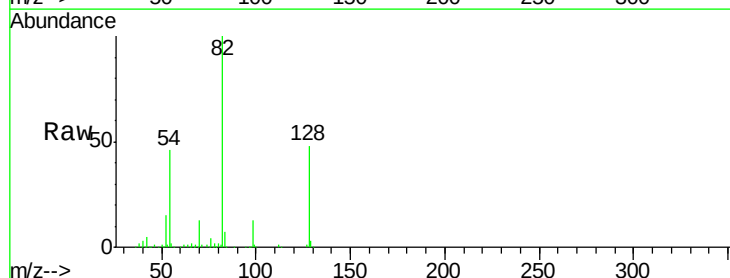
Ion Ratio Lower Upper

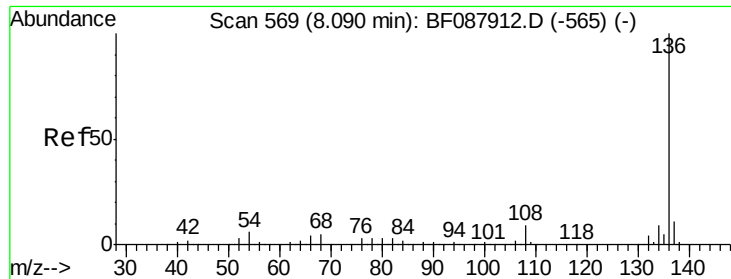
70 100

42 39.2 49.6 74.4#

101 0.0 7.1 10.7#

130 2.3 15.4 23.2#

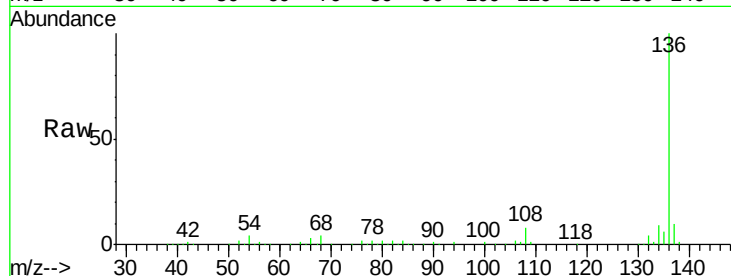




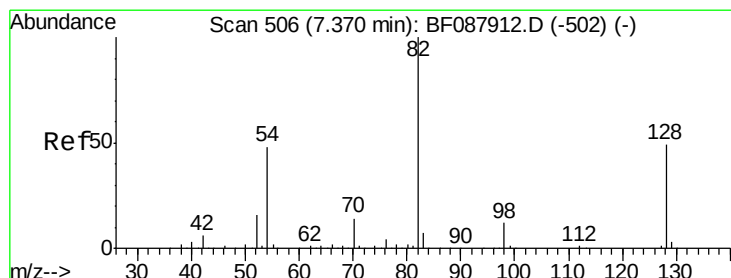
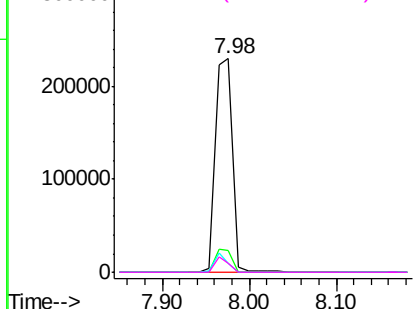
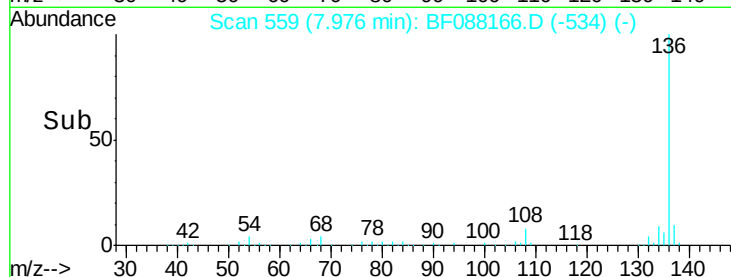
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.98 min Scan# 559  
Delta R.T. -0.01 min  
Lab File: BF088166.D  
Acq: 19 Jun 2016 7:09

Instrument :  
BNA\_F  
ClientSampleId :  
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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 320663 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 9.1   | 13.7   |
| 54       | 4.4   | 6.6   | 10.0#  |
| 68       | 4.1   | 5.1   | 7.7#   |

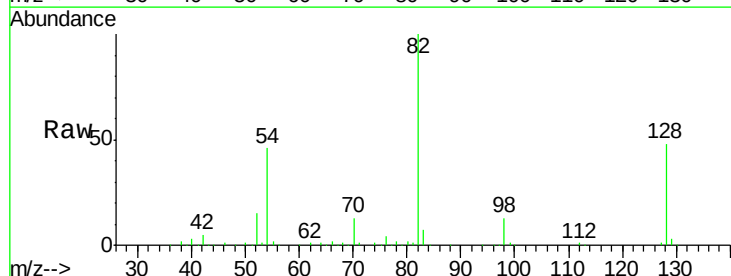


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

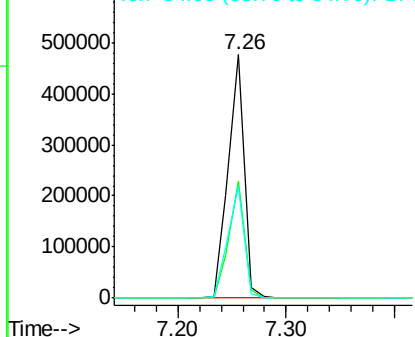
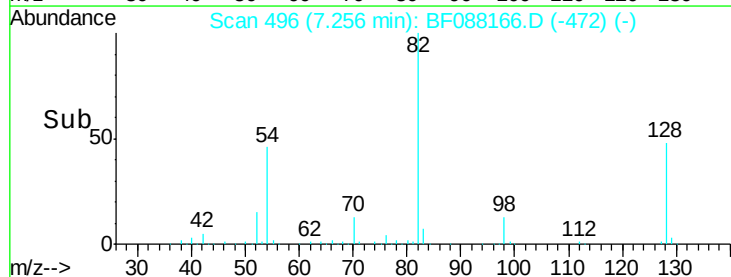


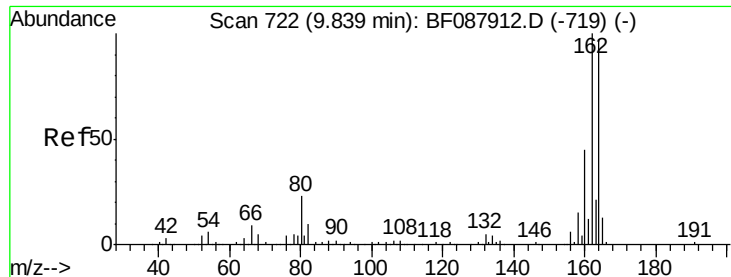
#23  
Nitrobenzene-d5  
Concen: 88.93 ng  
RT: 7.26 min Scan# 496  
Delta R.T. -0.02 min  
Lab File: BF088166.D  
Acq: 19 Jun 2016 7:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 488328 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.8  | 35.9  | 53.9   |
| 54       | 45.9  | 40.9  | 61.3   |



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 712

Delta R.T. -0.01 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Instrument :

BNA\_F

ClientSampleId :

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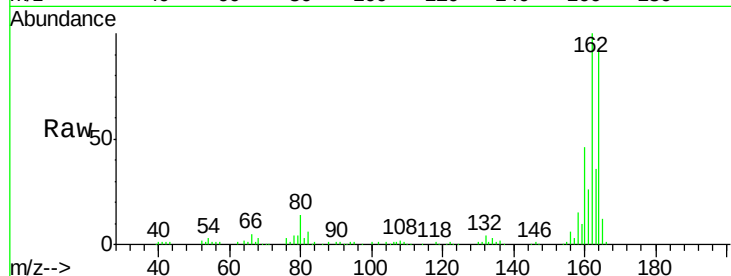
Tgt Ion:164 Resp: 127813

Ion Ratio Lower Upper

164 100

162 107.1 85.4 128.2

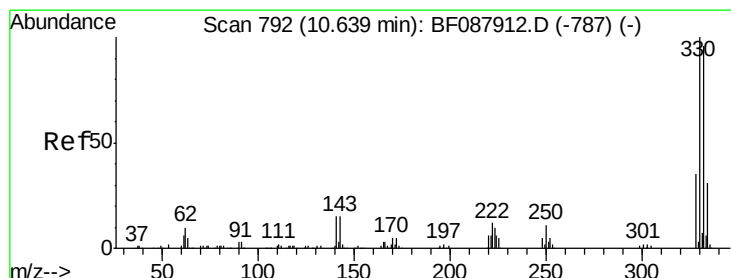
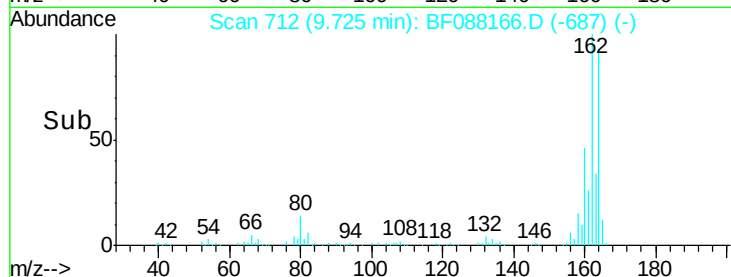
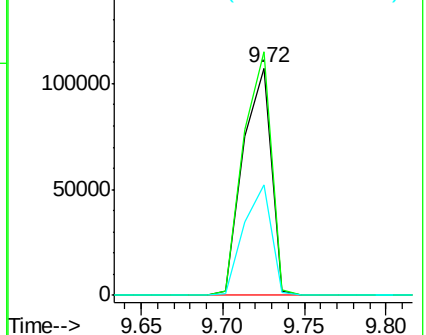
160 48.9 39.5 59.3



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: 106.26 ng

RT: 10.51 min Scan# 781

Delta R.T. -0.01 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

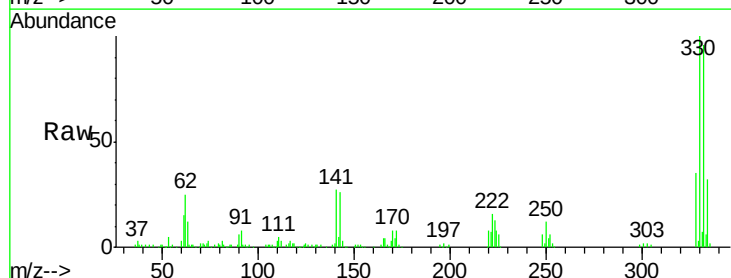
Tgt Ion:330 Resp: 143401

Ion Ratio Lower Upper

330 100

332 96.1 0.0 0.0#

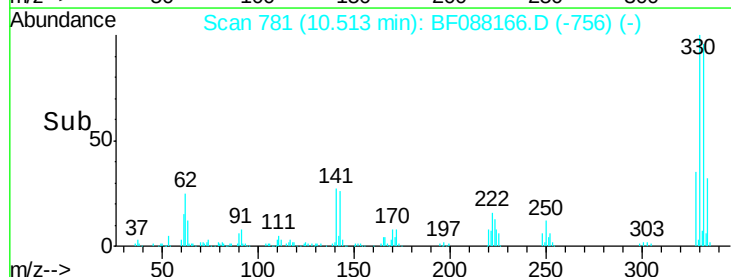
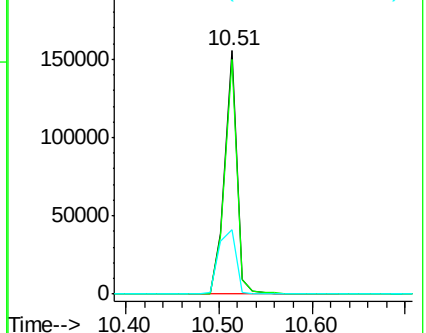
141 38.2 0.0 0.0#

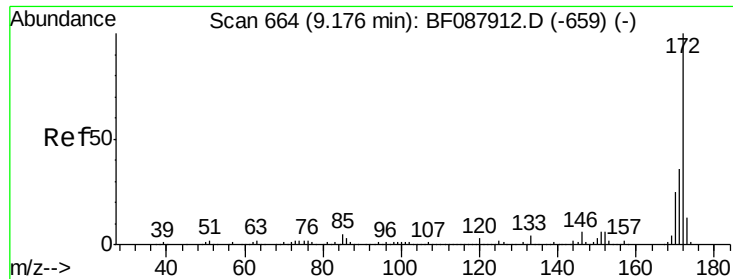


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

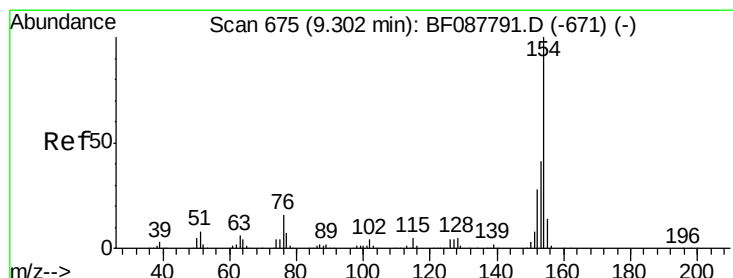
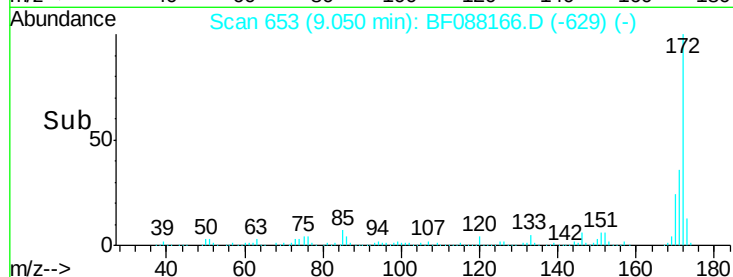
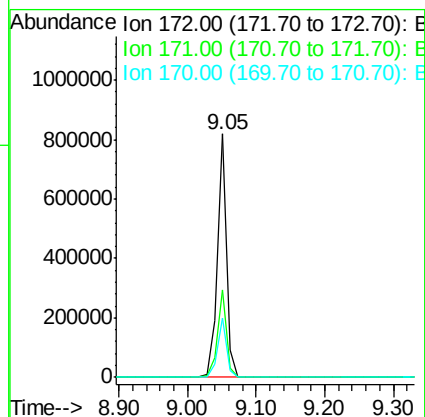
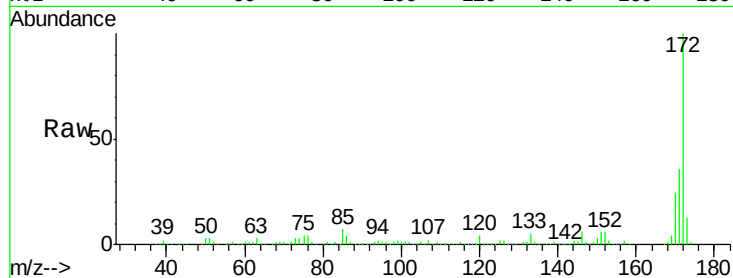




#44  
2-Fluorobiphenyl  
Concen: 95.47 ng  
RT: 9.05 min Scan# 653  
Delta R.T. -0.02 min  
Lab File: BF088166.D  
Acq: 19 Jun 2016 7:09

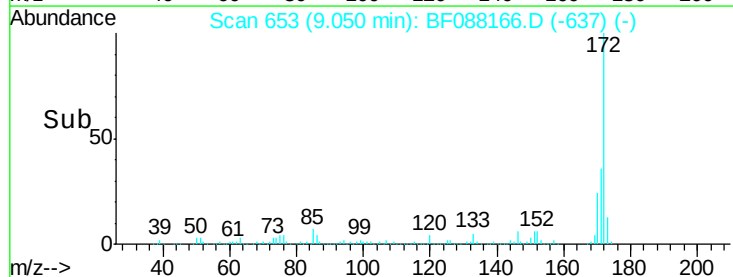
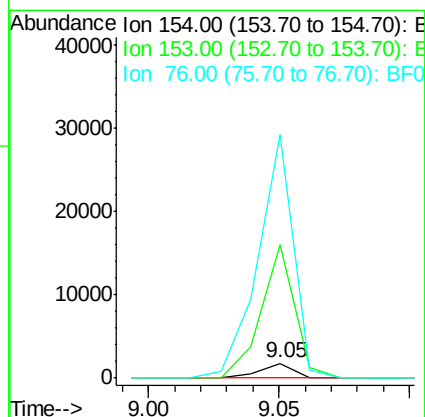
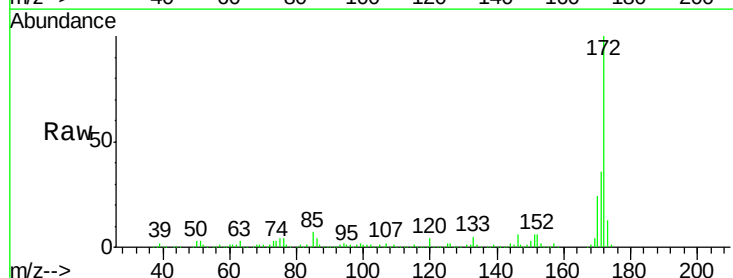
Instrument :  
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Tgt Ion:172 Resp: 771196  
Ion Ratio Lower Upper  
172 100  
171 36.1 28.6 43.0  
170 24.2 19.2 28.8

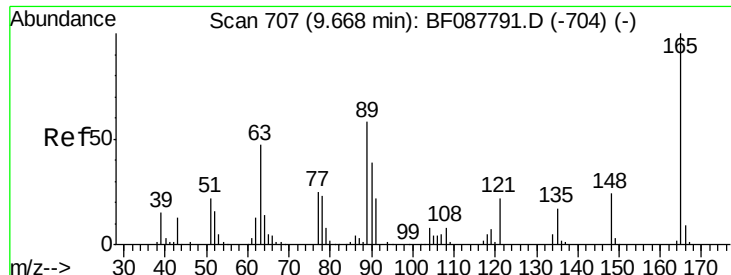


#45  
1,1'-Biphenyl  
Concen: Below Cal  
RT: 9.05 min Scan# 653  
Delta R.T. -0.11 min  
Lab File: BF088166.D  
Acq: 19 Jun 2016 7:09

Tgt Ion:154 Resp: 1553  
Ion Ratio Lower Upper  
154 100  
153 896.8 20.6 60.6#  
76 1636.3 0.0 35.1#



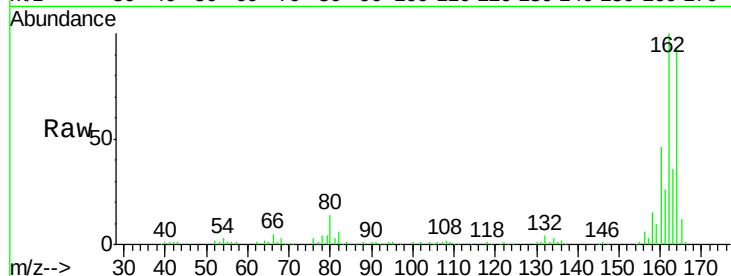




#50  
 2,6-Dinitrotoluene  
 Concen: 7.64 ng  
 RT: 9.72 min Scan# 712  
 Delta R.T. 0.18 min  
 Lab File: BF088166.D  
 Acq: 19 Jun 2016 7:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-11

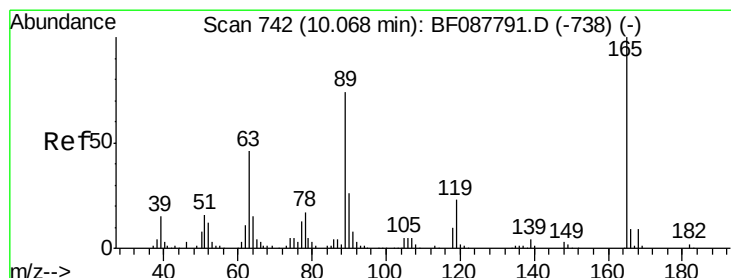
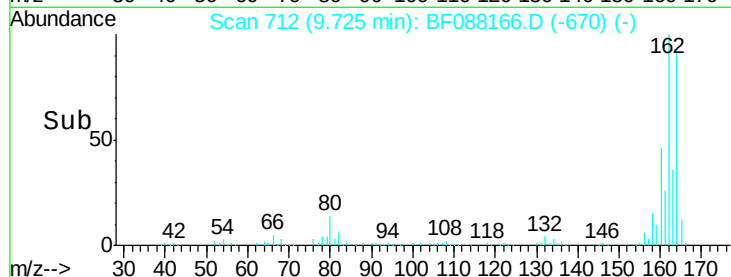
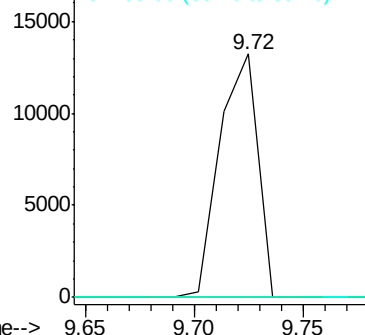
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 28.1  | 42.1# |
| 89      | 0.0   | 32.2  | 48.2# |



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: 5.95 ng  
 RT: 9.72 min Scan# 712  
 Delta R.T. -0.22 min  
 Lab File: BF088166.D  
 Acq: 19 Jun 2016 7:09

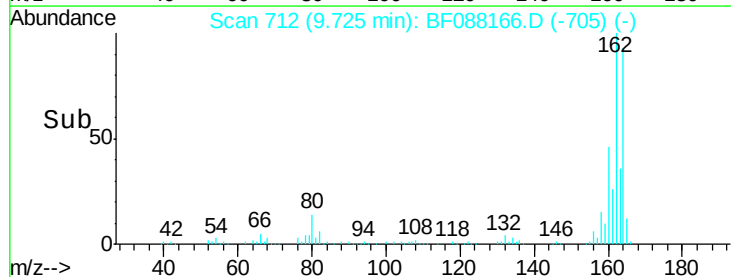
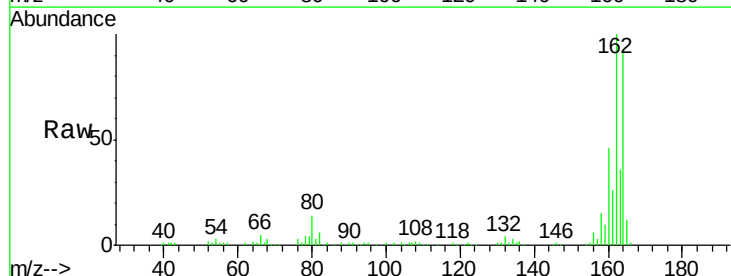
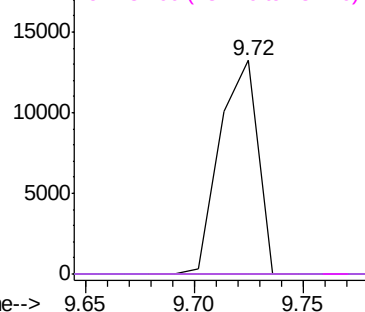
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 22.0  | 33.0# |
| 89      | 0.0   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |

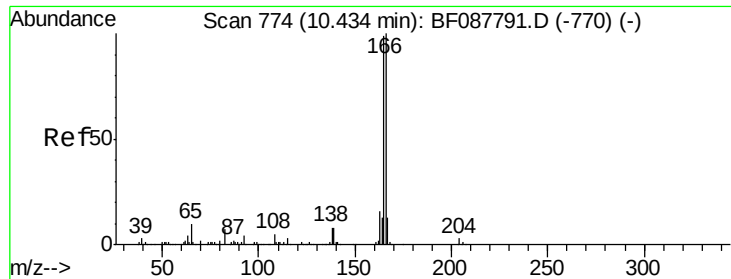
Abundance Ion 165.00 (164.70 to 165.70): E

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





#57

Fluorene

Concen: Below Cal

RT: 10.51 min Scan# 781

Delta R.T. 0.23 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Instrument :

BNA\_F

ClientSampleId :

W-11

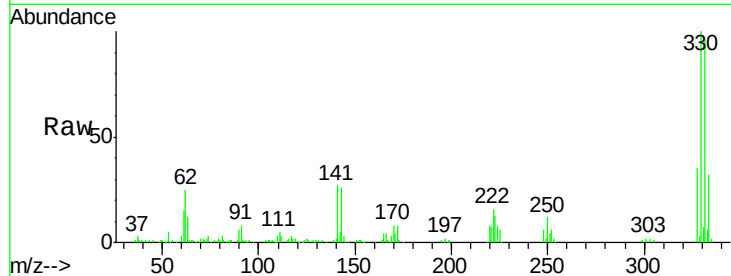
Tgt Ion:166 Resp: 7370

Ion Ratio Lower Upper

166 100

165 99.5 77.8 116.8

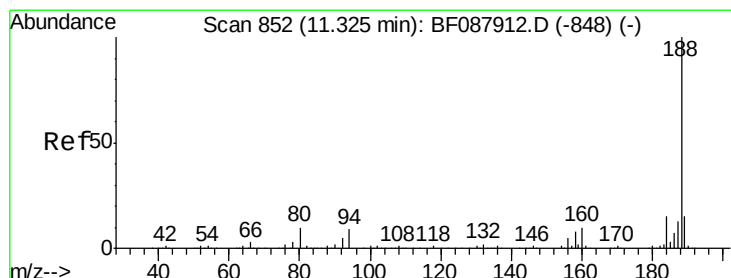
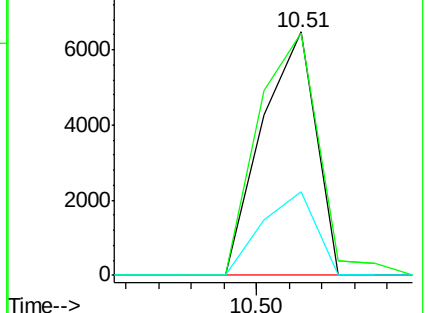
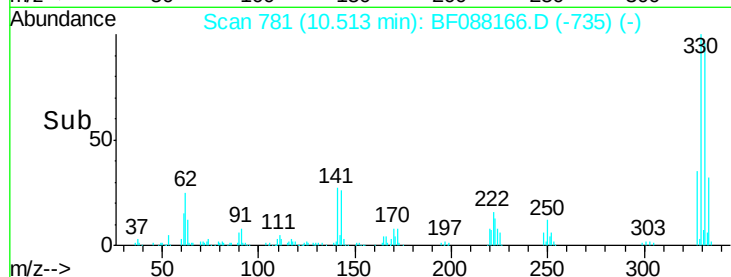
167 34.2 11.2 16.8#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.01 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

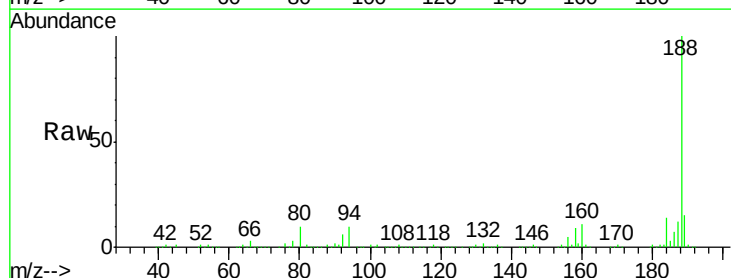
Tgt Ion:188 Resp: 210451

Ion Ratio Lower Upper

188 100

94 10.1 9.0 13.6

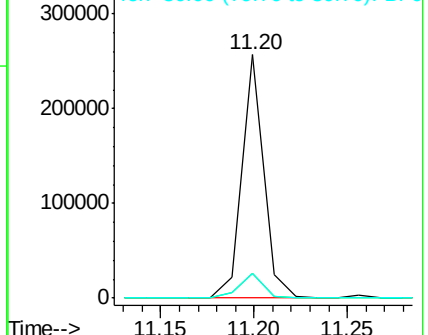
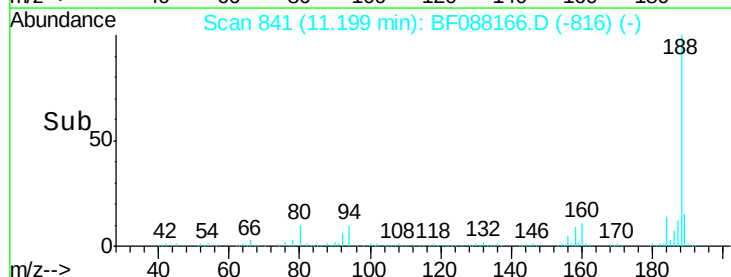
80 10.0 10.0 15.0

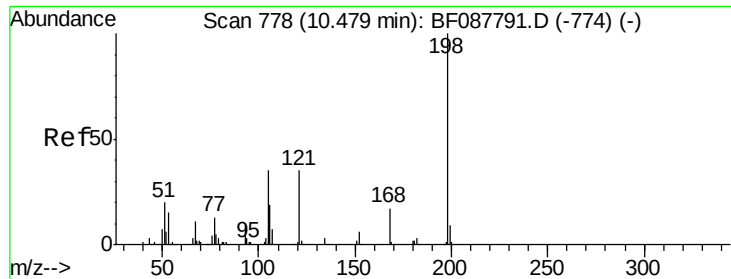


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 2.34 ng

RT: 10.51 min Scan# 781

Delta R.T. 0.16 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Instrument :

BNA\_F

ClientSampleId :

W-11

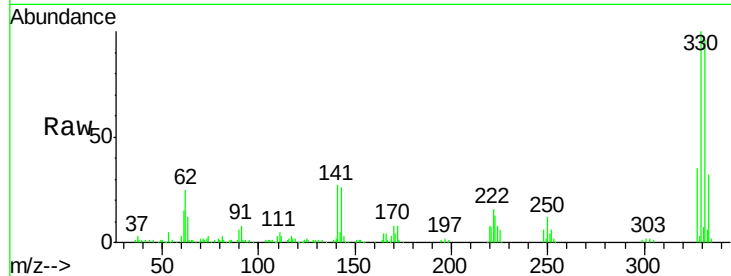
Tgt Ion:198 Resp: 241

Ion Ratio Lower Upper

198 100

51 158.2 39.6 79.6#

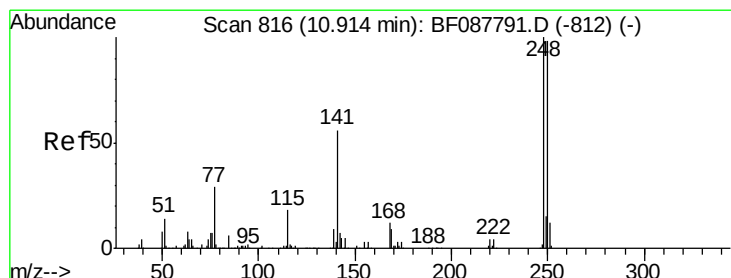
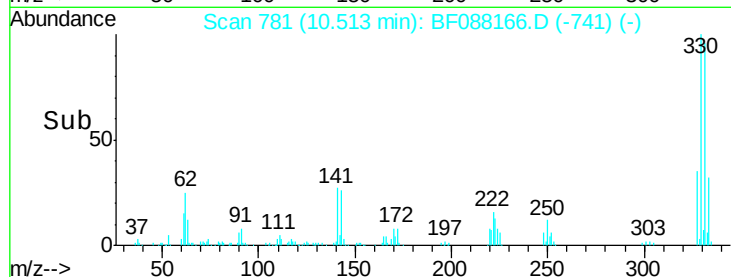
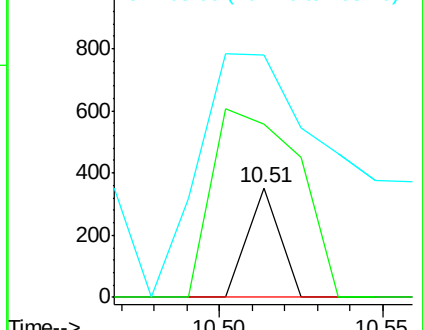
105 221.6 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 4.23 ng

RT: 10.51 min Scan# 781

Delta R.T. -0.25 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

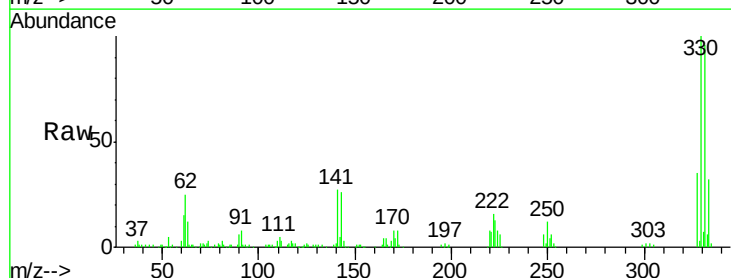
Tgt Ion:248 Resp: 9548

Ion Ratio Lower Upper

248 100

250 202.7 77.1 115.7#

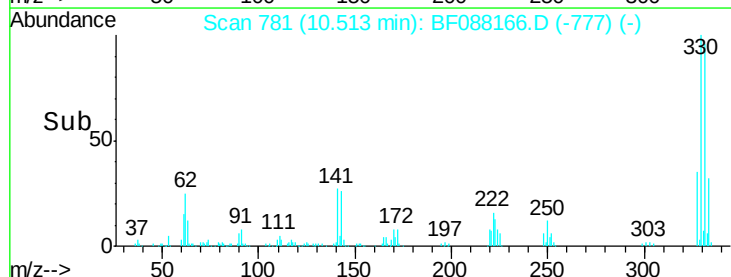
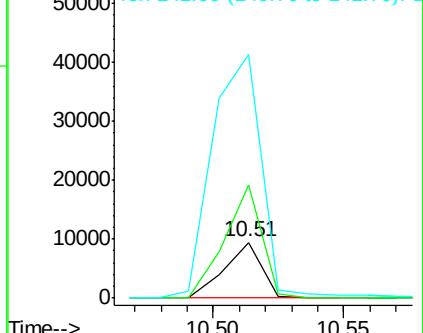
141 436.4 50.6 76.0#

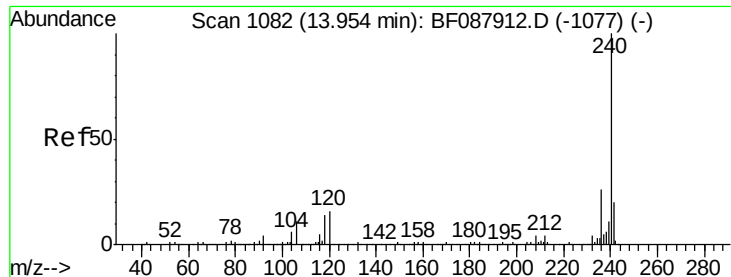


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.83 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

Instrument :

BNA\_F

ClientSampleId :

W-11

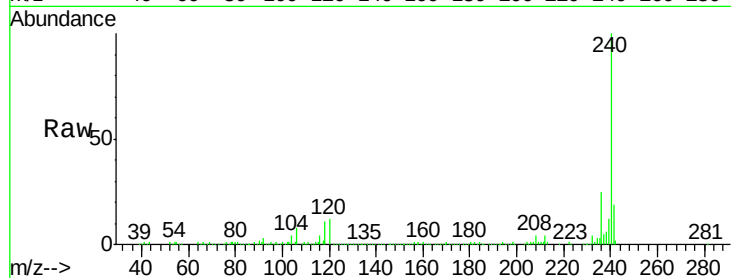
Tgt Ion:240 Resp: 174737

Ion Ratio Lower Upper

240 100

120 12.4 6.8 10.2#

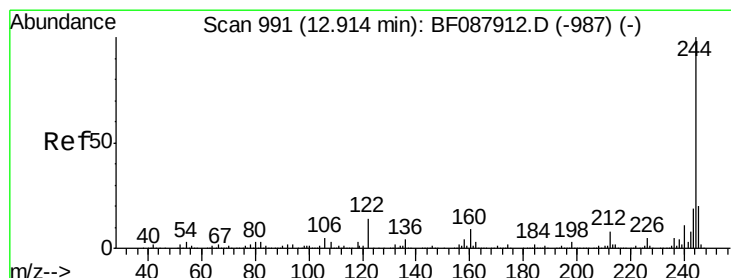
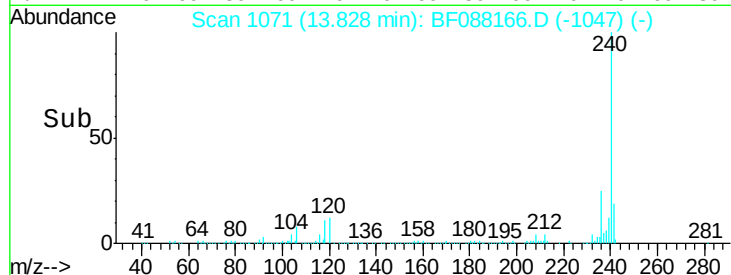
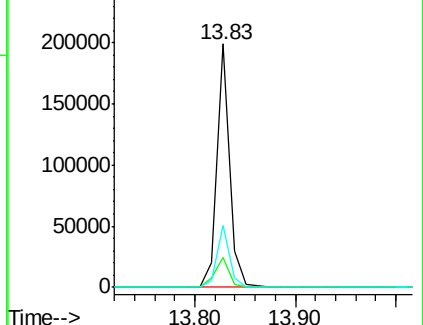
236 25.3 20.2 30.2



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: 79.74 ng

RT: 12.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BF088166.D

Acq: 19 Jun 2016 7:09

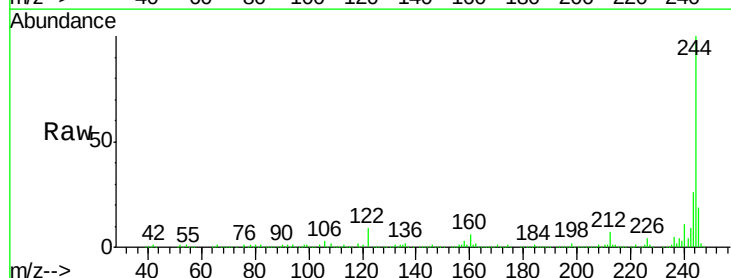
Tgt Ion:244 Resp: 612317

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

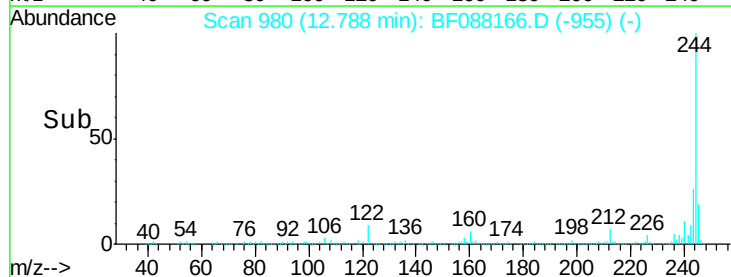
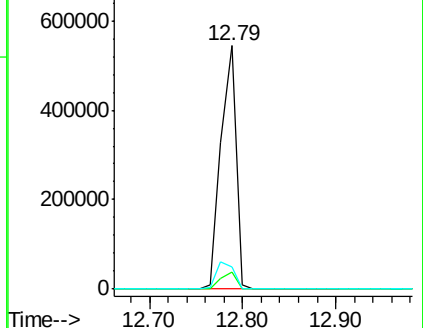
122 9.1 11.2 16.8#

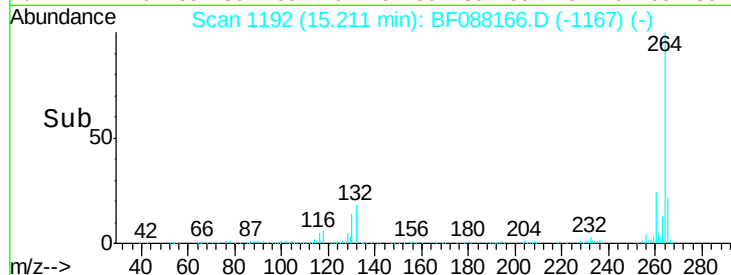
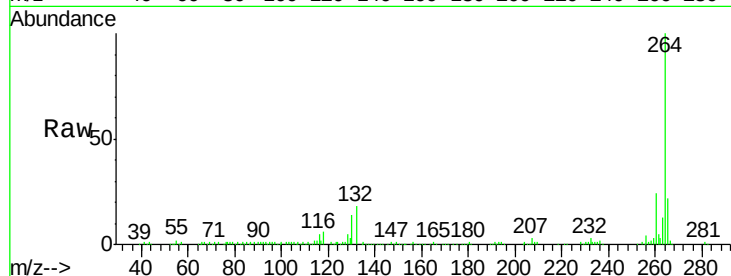
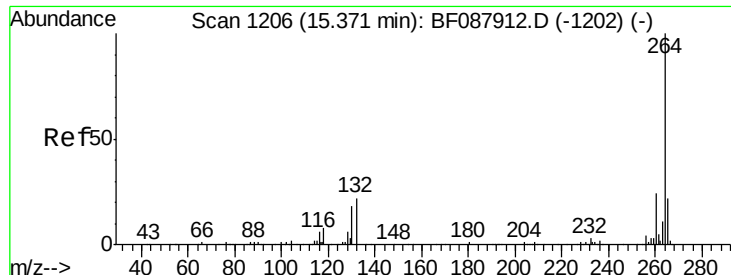


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.21 min Scan# 1192  
Delta R.T. -0.01 min  
Lab File: BF088166.D  
Acq: 19 Jun 2016 7:09

Instrument :  
BNA\_F  
ClientSampleId :  
W-11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 128840 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.7  | 19.2  | 28.8   |
| 265      | 21.6  | 16.9  | 25.3   |

