

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061216\  
 Data File : BF087969.D  
 Acq On : 13 Jun 2016 1:23  
 Operator : UM/SJ  
 Sample : H3473-11  
 Misc :  
 ALS Vial : 65 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 STA-1100-(0-4)

Quant Time: Jun 13 05:04:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 02:17:28 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 114873   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 478522   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.84  | 164  | 183257   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.32 | 188  | 395528   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.95 | 240  | 240925   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.36 | 264  | 55222    | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.40  | 112  | 705624   | 105.01 | ng    | 0.01     |
| 7) Phenol-d6                | 6.44  | 99   | 734416   | 90.18  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 693658   | 84.65  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 227132   | 117.38 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 1081654  | 93.26  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.91 | 244  | 1035928  | 97.84  | ng    | -0.01    |

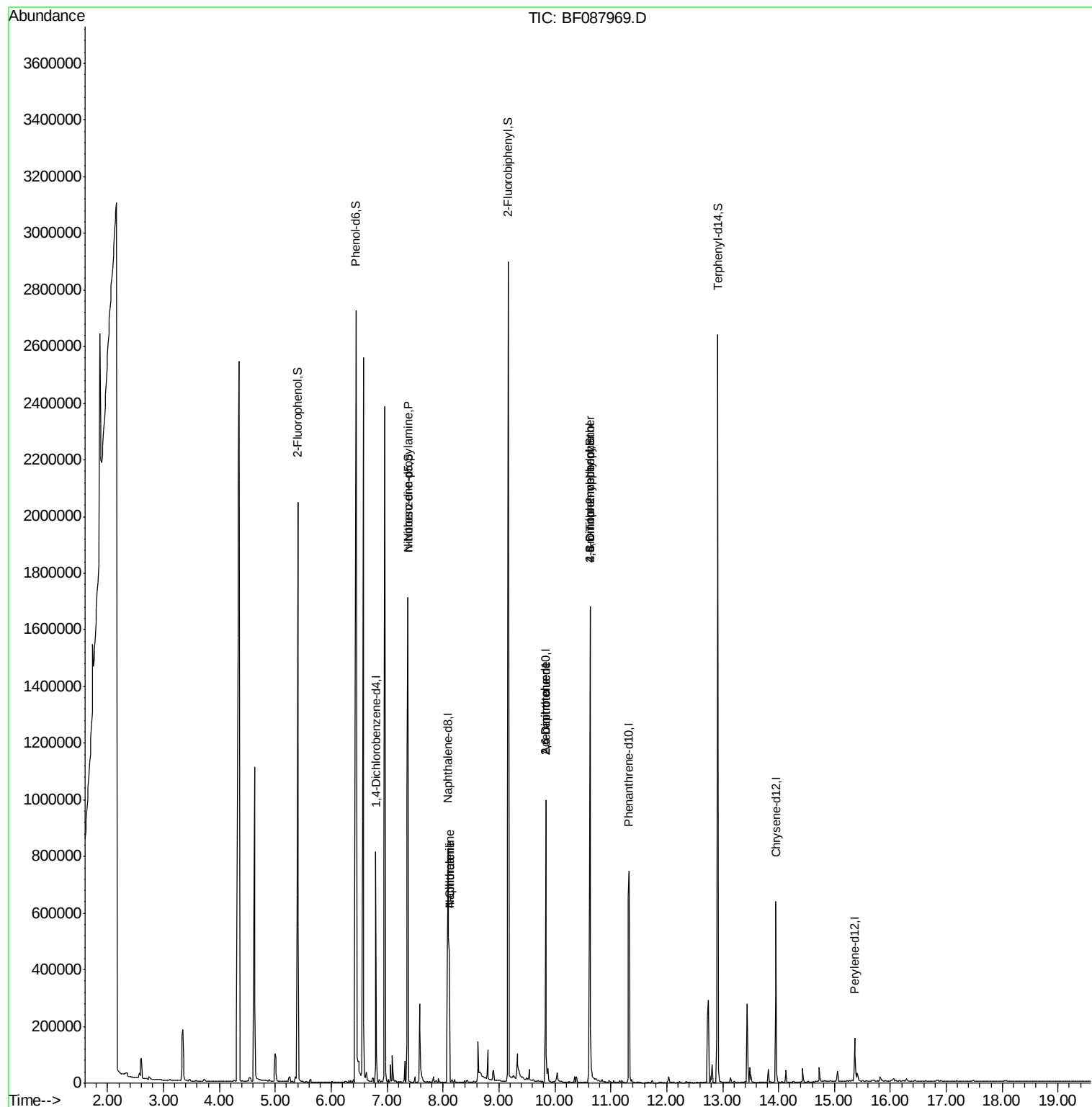
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.57  | 94   | 1315     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 91736    | 17.61     | ng    | 69     |
| 31) Naphthalene                | 8.11  | 128  | 351490   | 14.84     | ng    | 97     |
| 33) 4-Chloroaniline            | 8.11  | 127  | 44547    | 4.21      | ng    | 34     |
| 45) 1,1'-Biphenyl              | 9.27  | 154  | 4476     | Below Cal |       | 97     |
| 50) 2,6-Dinitrotoluene         | 9.84  | 165  | 22831    | 7.51      | ng    | 40     |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 22831    | 5.84      | ng    | 38     |
| 57) Fluorene                   | 10.39 | 166  | 8395     | Below Cal |       | 97     |
| 64) 4,6-Dinitro-2-methylphenol | 10.63 | 198  | 347      | 2.30      | ng    | 1      |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 14625    | 3.45      | ng    | 1      |

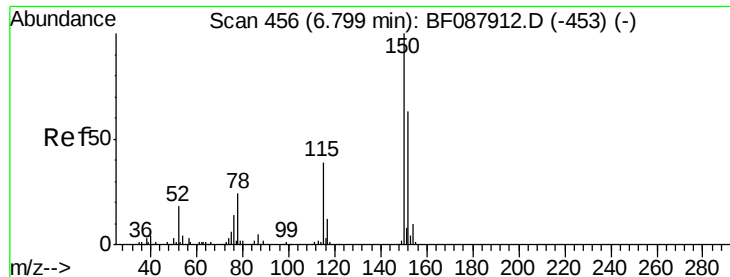
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 13 02:17:28 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 456

Delta R.T. -0.00 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

Instrument :

BNA\_F

ClientSampleId :

STA-1100-(0-4)

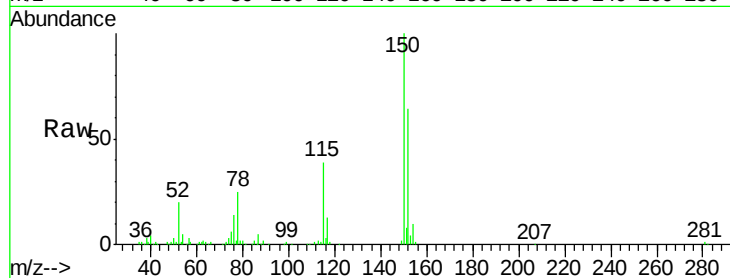
Tgt Ion:152 Resp: 114873

Ion Ratio Lower Upper

152 100

150 155.9 123.8 185.6

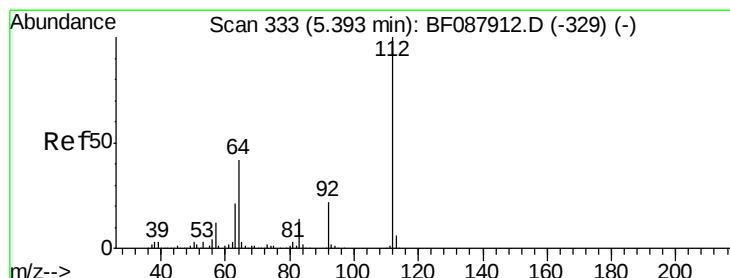
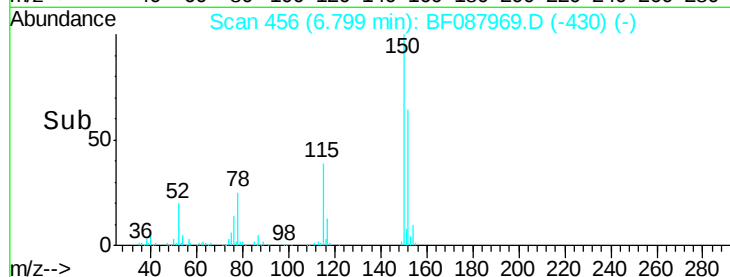
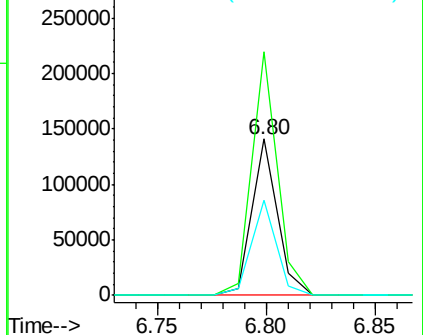
115 61.0 39.6 59.4#



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: 105.01 ng

RT: 5.40 min Scan# 334

Delta R.T. 0.01 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

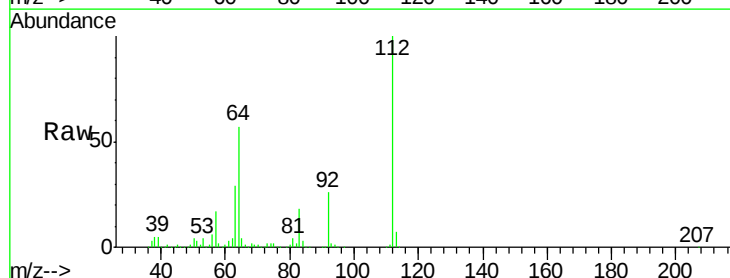
Tgt Ion:112 Resp: 705624

Ion Ratio Lower Upper

112 100

64 57.1 42.2 63.2

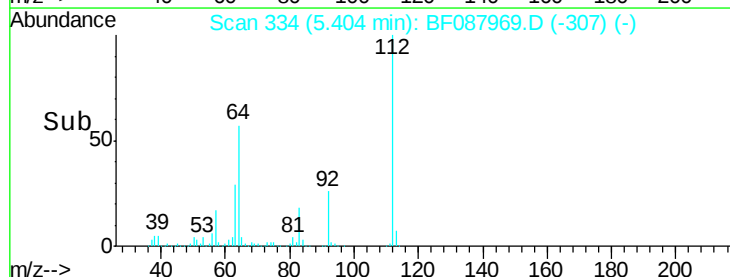
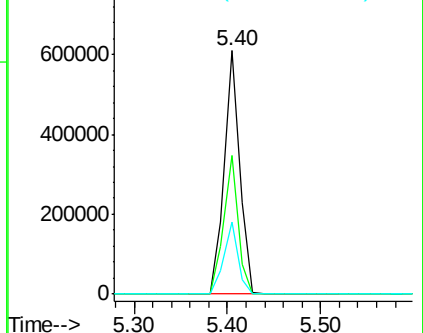
63 29.5 21.8 32.8

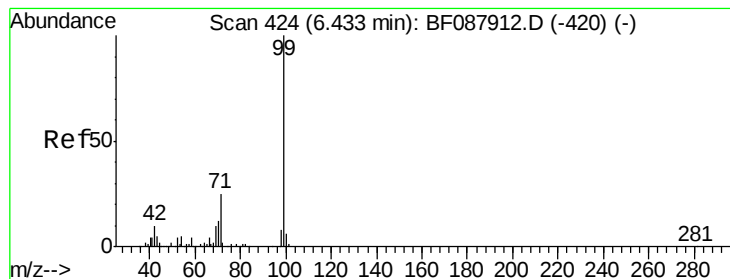


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 90.18 ng

RT: 6.44 min Scan# 425

Delta R.T. -0.00 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

Instrument :

BNA\_F

ClientSampleId :

STA-1100-(0-4)

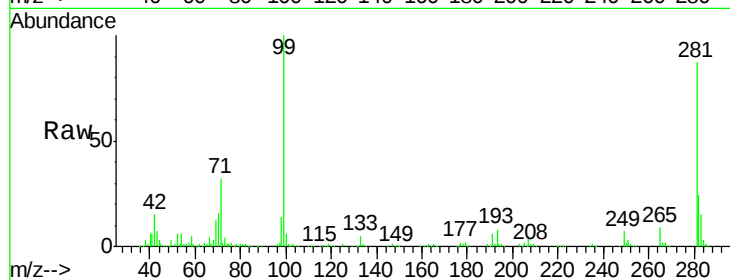
Tgt Ion: 99 Resp: 734416

Ion Ratio Lower Upper

99 100

42 14.7 12.2 18.2

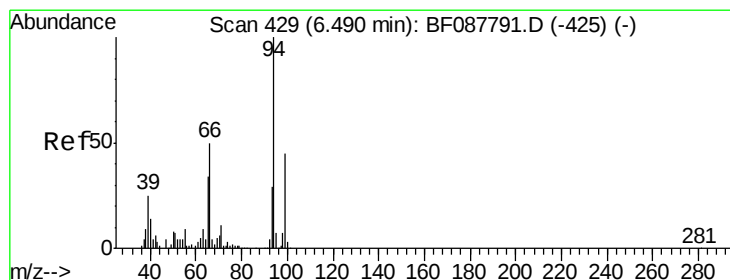
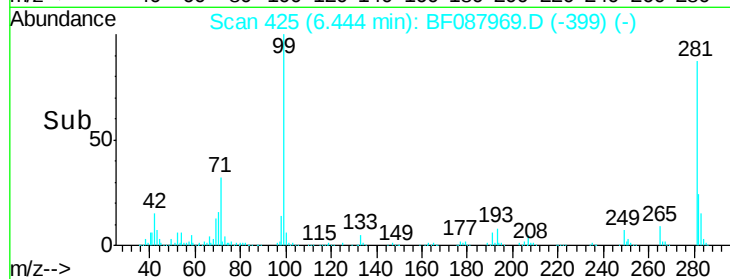
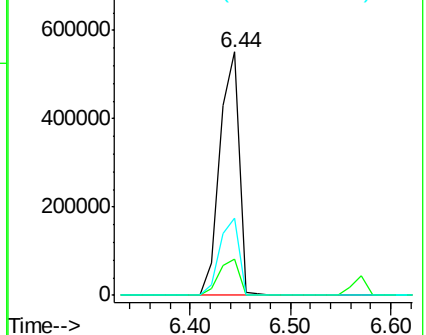
71 32.0 23.4 35.0



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



#10

Phenol

Concen: Below Cal

RT: 6.57 min Scan# 436

Delta R.T. 0.11 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

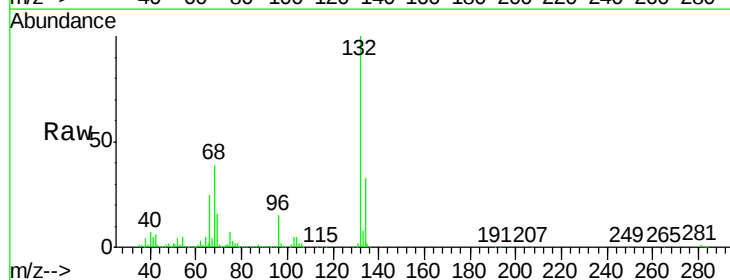
Tgt Ion: 94 Resp: 1315

Ion Ratio Lower Upper

94 100

65 1106.5 5.9 45.9#

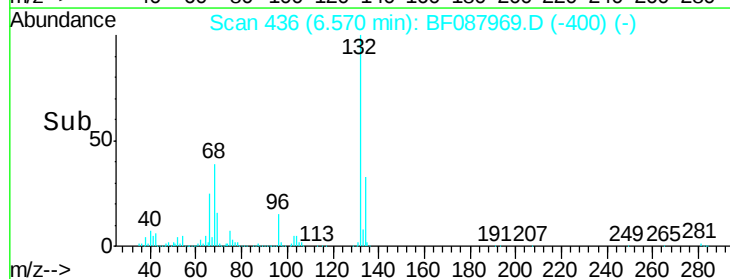
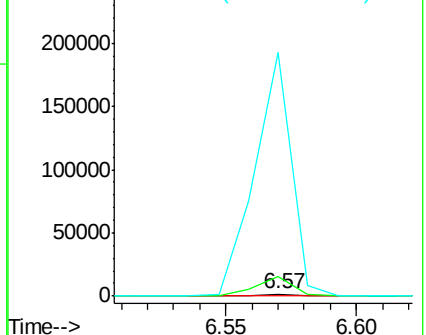
66 13750.2 14.0 54.0#

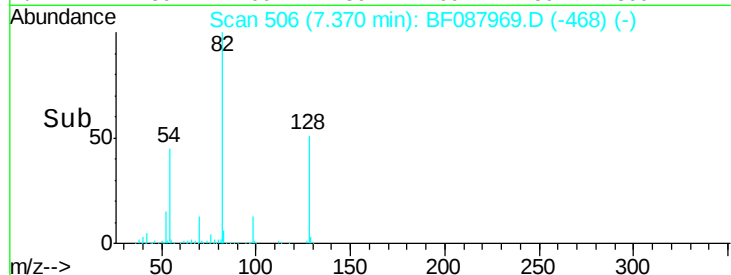
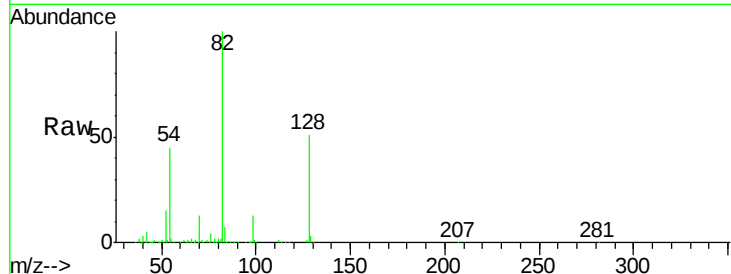


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

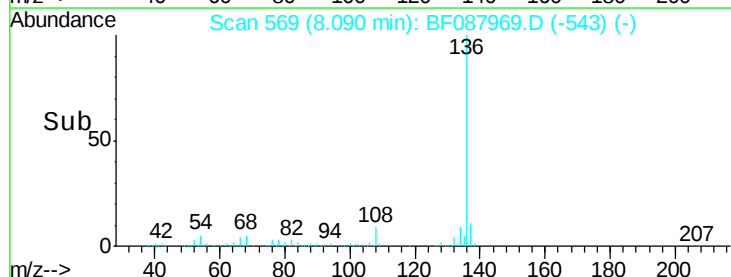
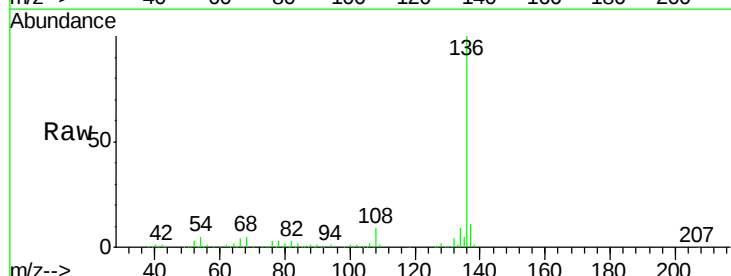
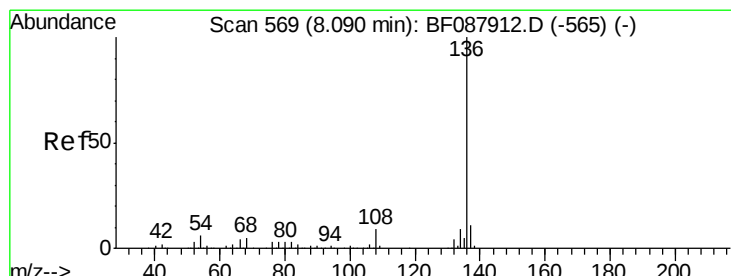
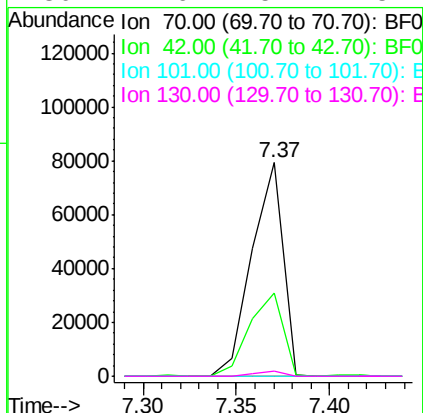




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.61 ng  
RT: 7.37 min Scan# 506  
Delta R.T. 0.14 min  
Lab File: BF087969.D  
Acq: 13 Jun 2016 1:23

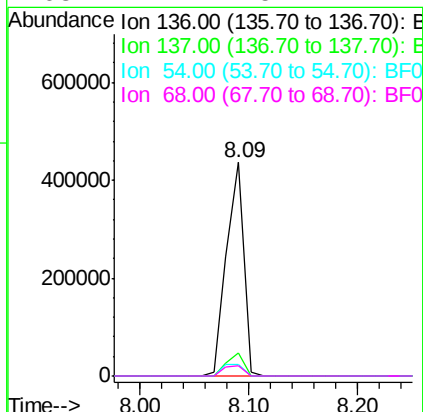
Instrument :  
BNA\_F  
ClientSampleId :  
STA-1100-(0-4)

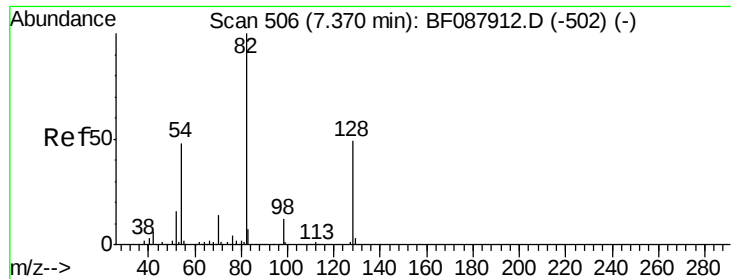
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 91736 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 39.1  | 49.6  | 74.4# |
| 101      | 0.0   | 7.1   | 10.7# |
| 130      | 2.6   | 15.4  | 23.2# |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.09 min Scan# 569  
Delta R.T. -0.00 min  
Lab File: BF087969.D  
Acq: 13 Jun 2016 1:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 478522 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.1   | 13.7   |
| 54       | 5.5   | 6.6   | 10.0#  |
| 68       | 4.7   | 5.1   | 7.7#   |





#23

Nitrobenzene-d5

Concen: 84.65 ng

RT: 7.37 min Scan# 506

Delta R.T. -0.00 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

Instrument :

BNA\_F

ClientSampleId :

STA-1100-(0-4)

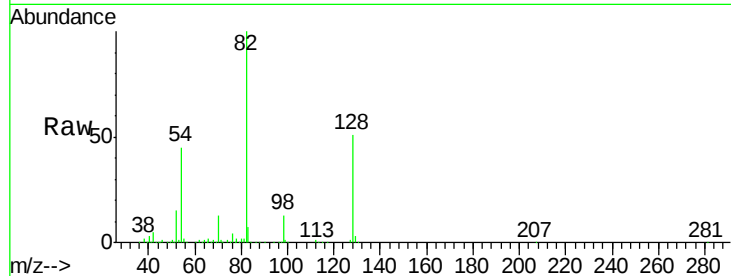
Tgt Ion: 82 Resp: 693658

Ion Ratio Lower Upper

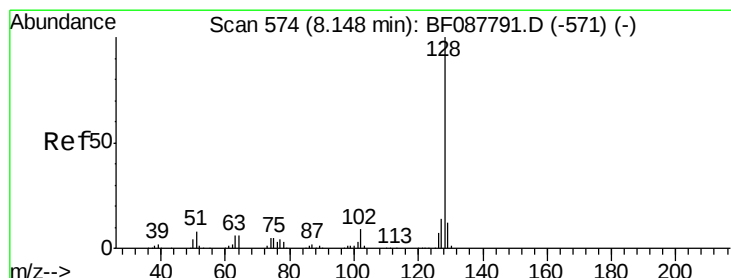
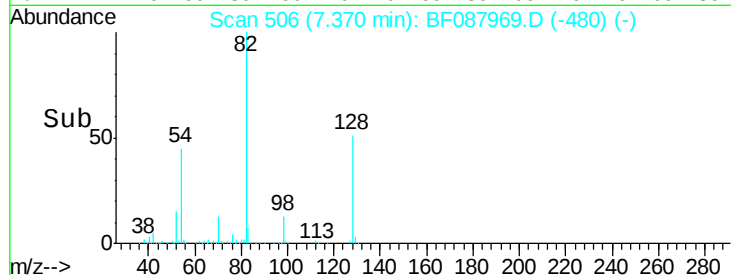
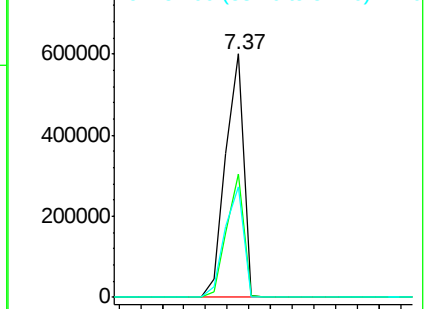
82 100

128 50.6 35.9 53.9

54 45.4 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



#31

Naphthalene

Concen: 14.84 ng

RT: 8.11 min Scan# 571

Delta R.T. -0.00 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

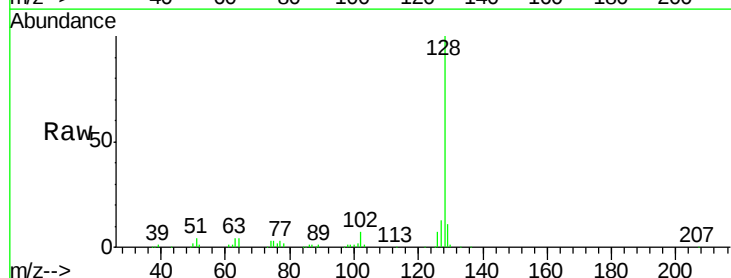
Tgt Ion: 128 Resp: 351490

Ion Ratio Lower Upper

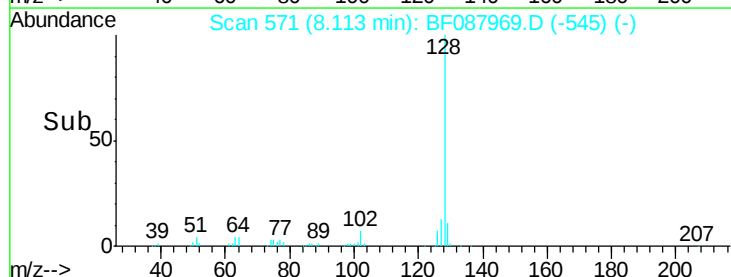
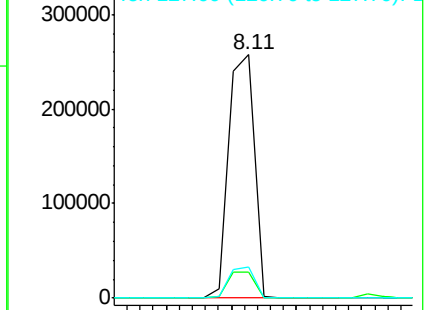
128 100

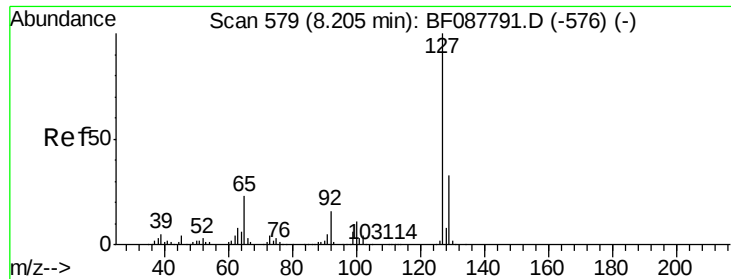
129 10.5 9.4 14.2

127 12.8 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

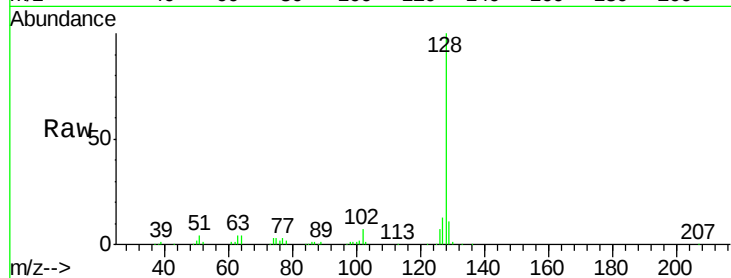




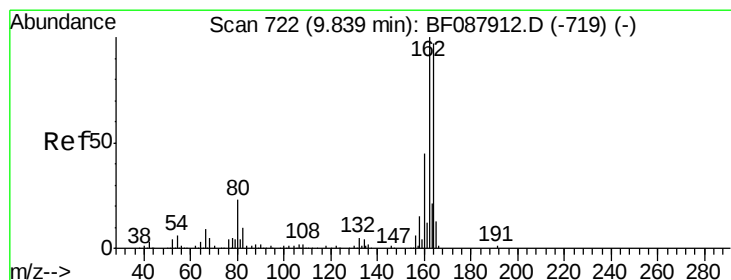
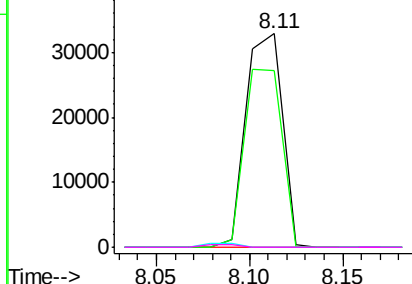
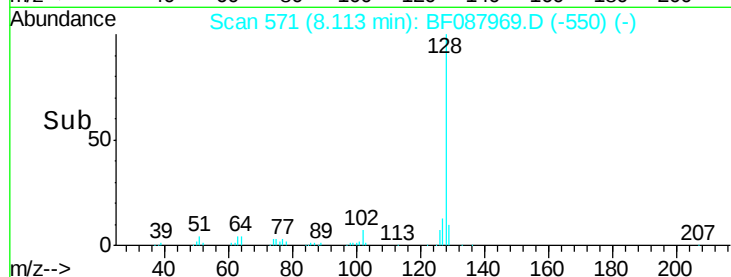
#33  
4-Chloroaniline  
Concen: 4.21 ng  
RT: 8.11 min Scan# 571  
Delta R.T. -0.06 min  
Lab File: BF087969.D  
Acq: 13 Jun 2016 1:23

Instrument :  
BNA\_F  
ClientSampleId :  
STA-1100-(0-4)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 44547 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 82.5  | 26.3  | 39.5# |
| 65       | 0.0   | 24.7  | 37.1# |
| 92       | 0.0   | 15.4  | 23.0# |

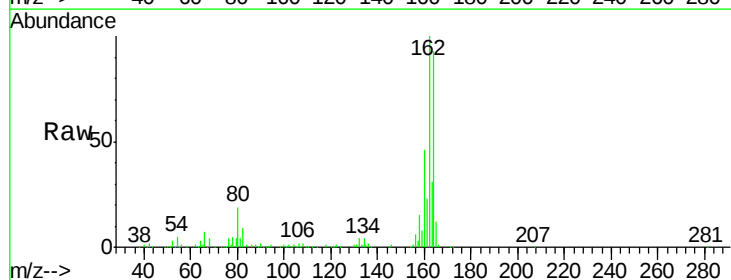


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0

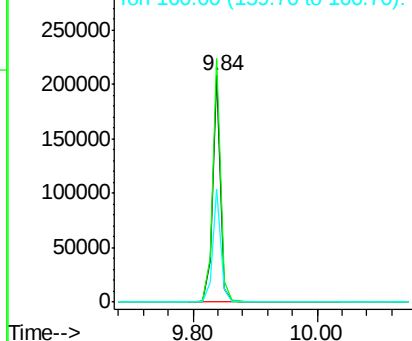
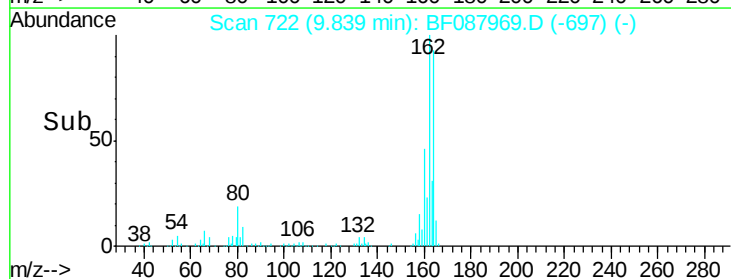


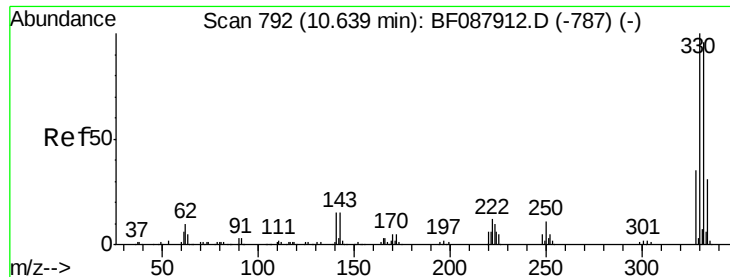
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.84 min Scan# 722  
Delta R.T. -0.01 min  
Lab File: BF087969.D  
Acq: 13 Jun 2016 1:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 183257 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 107.4 | 85.4  | 128.2  |
| 160      | 49.6  | 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

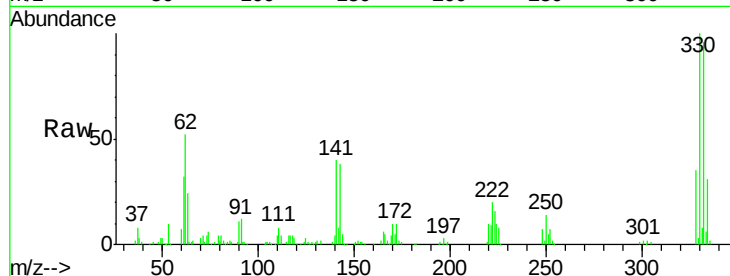




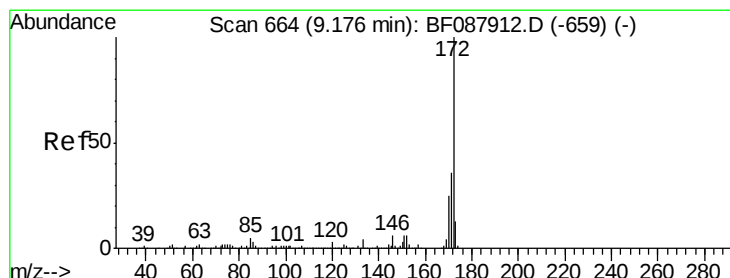
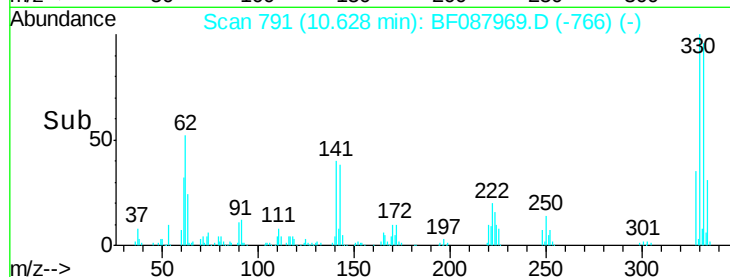
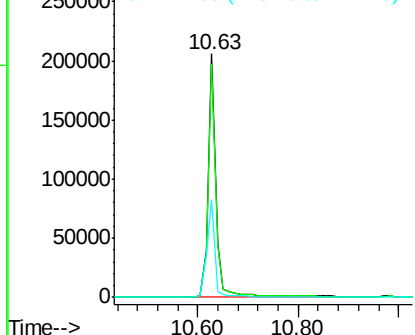
#41  
 2,4,6-Tribromophenol  
 Concen: 117.38 ng  
 RT: 10.63 min Scan# 791  
 Delta R.T. -0.01 min  
 Lab File: BF087969.D  
 Acq: 13 Jun 2016 1:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 STA-1100-(0-4)

Tgt Ion:330 Resp: 227132  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 0.0 0.0#  
 141 42.0 0.0 0.0#

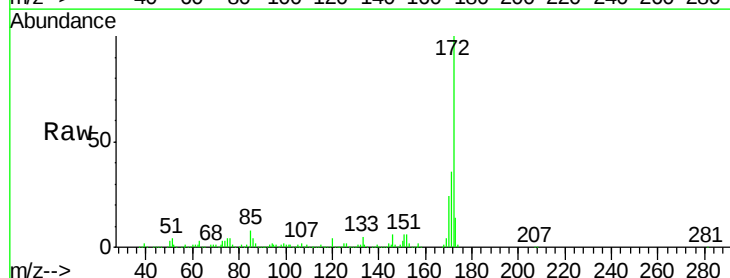


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

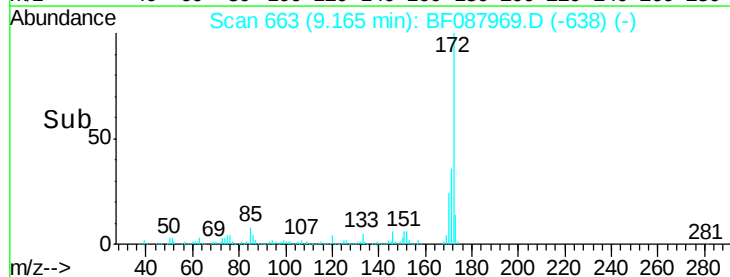
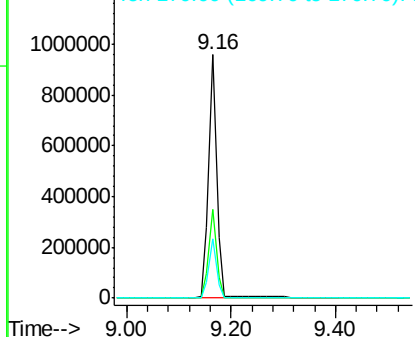


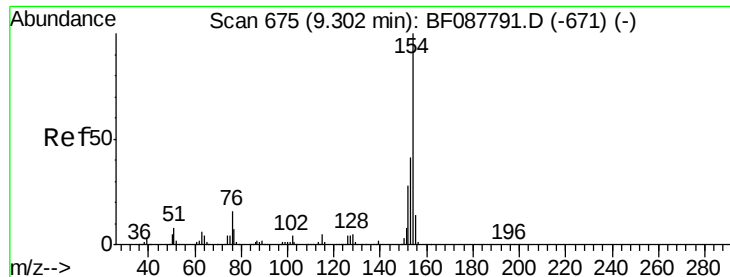
#44  
 2-Fluorobiphenyl  
 Concen: 93.26 ng  
 RT: 9.16 min Scan# 663  
 Delta R.T. -0.01 min  
 Lab File: BF087969.D  
 Acq: 13 Jun 2016 1:23

Tgt Ion:172 Resp: 1081654  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 28.6 43.0  
 170 24.3 19.2 28.8



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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.27 min Scan# 672

Delta R.T. -0.01 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

Instrument :

BNA\_F

ClientSampleId :

STA-1100-(0-4)

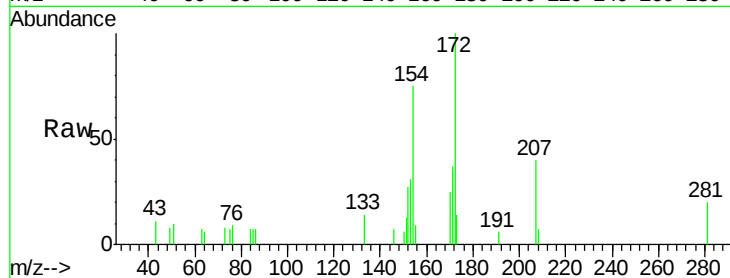
Tgt Ion:154 Resp: 4476

Ion Ratio Lower Upper

154 100

153 41.4 20.6 60.6

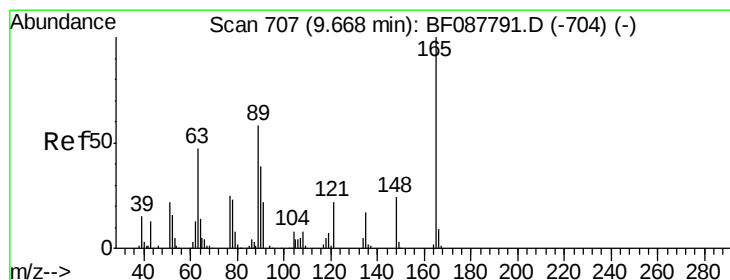
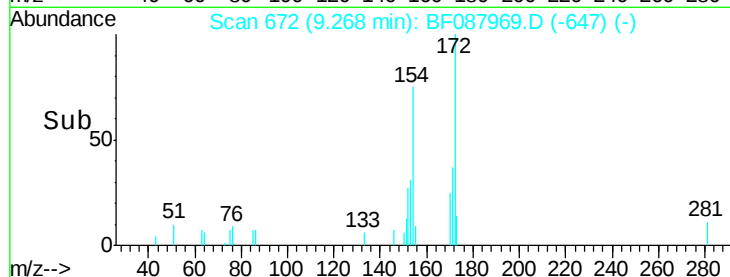
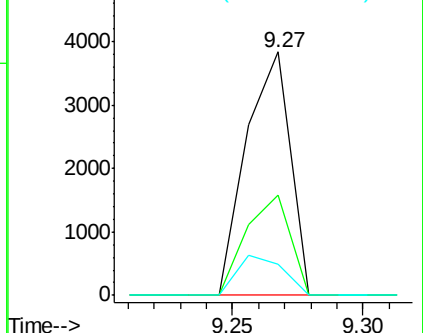
76 12.6 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#50

2,6-Dinitrotoluene

Concen: 7.51 ng

RT: 9.84 min Scan# 722

Delta R.T. 0.19 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

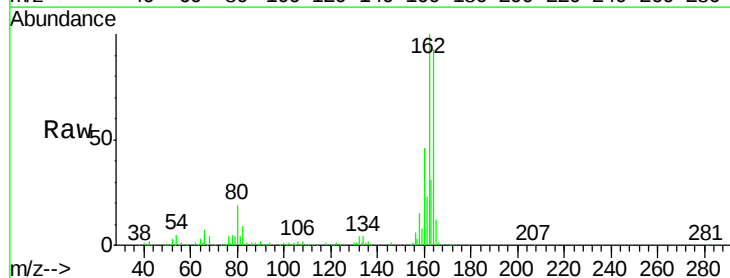
Tgt Ion:165 Resp: 22831

Ion Ratio Lower Upper

165 100

63 1.7 28.1 42.1#

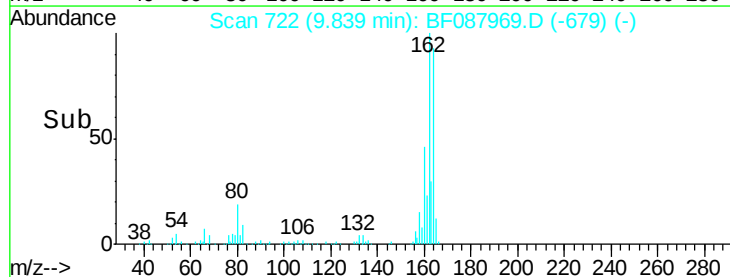
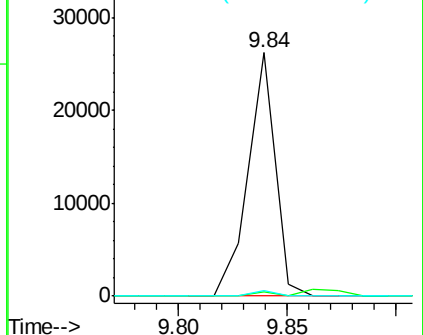
89 2.0 32.2 48.2#

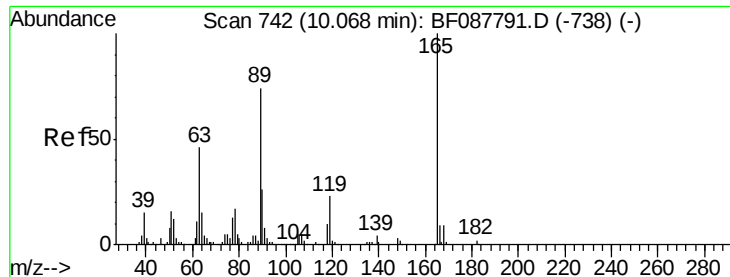


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#56

2,4-Dinitrotoluene

Concen: 5.84 ng

RT: 9.84 min Scan# 722

Delta R.T. -0.21 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

Instrument :

BNA\_F

ClientSampleId :

STA-1100-(0-4)

Tgt Ion:165 Resp: 22831

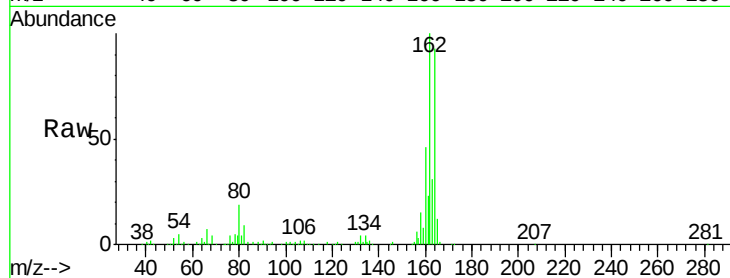
Ion Ratio Lower Upper

165 100

63 1.7 22.0 33.0#

89 2.0 41.1 61.7#

182 0.0 2.0 3.0#

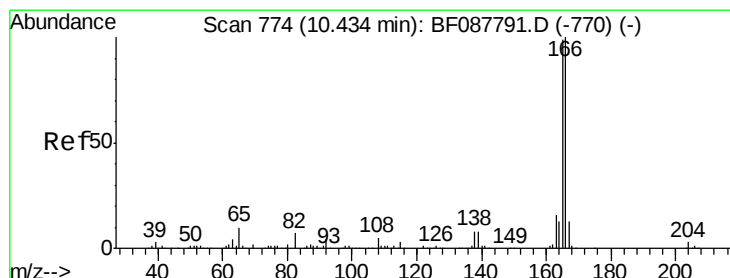
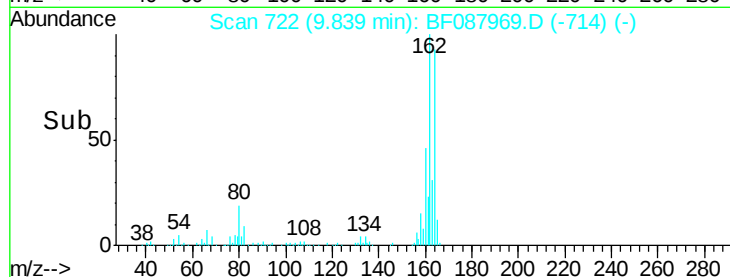
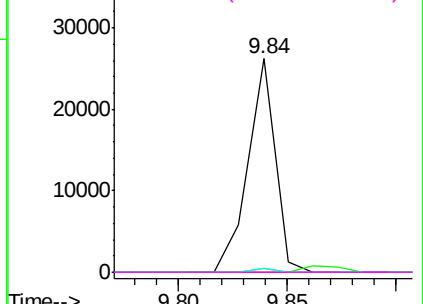


Abundance Ion 165.00 (164.70 to 165.70): E

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: 10.39 min Scan# 770

Delta R.T. -0.01 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

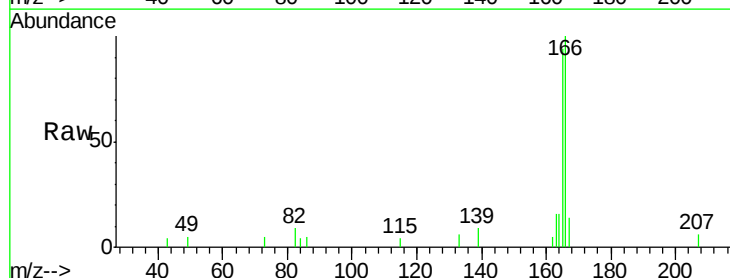
Tgt Ion:166 Resp: 8395

Ion Ratio Lower Upper

166 100

165 94.5 77.8 116.8

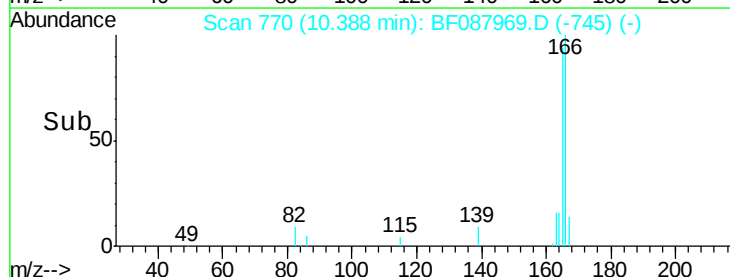
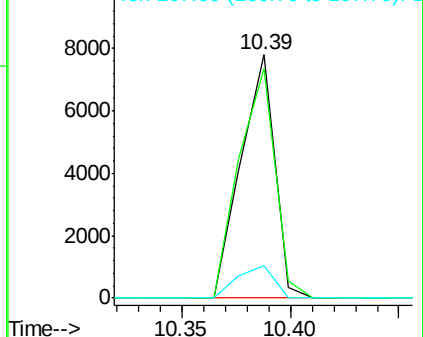
167 13.6 11.2 16.8

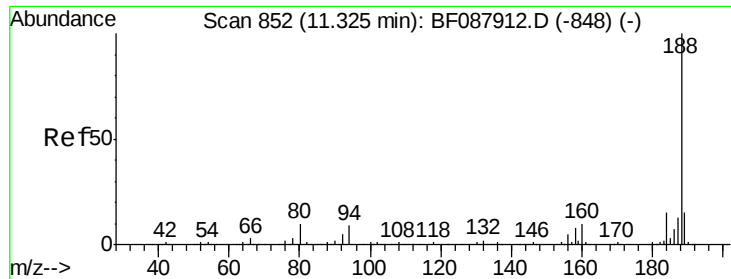


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

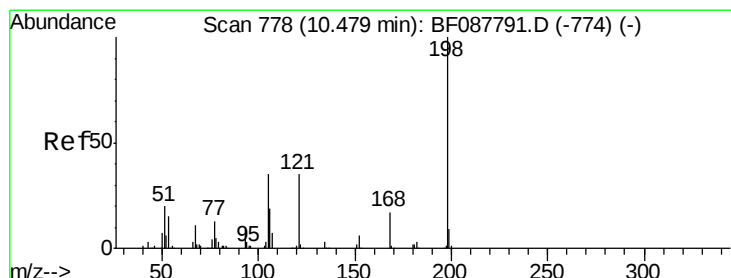
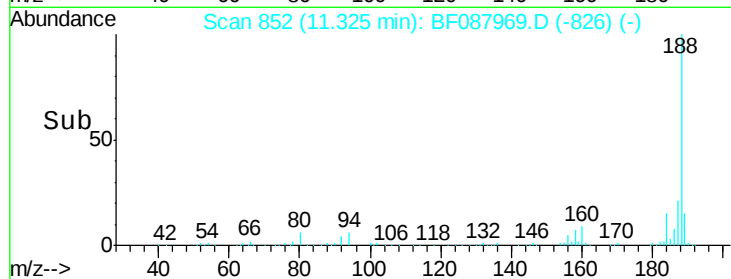
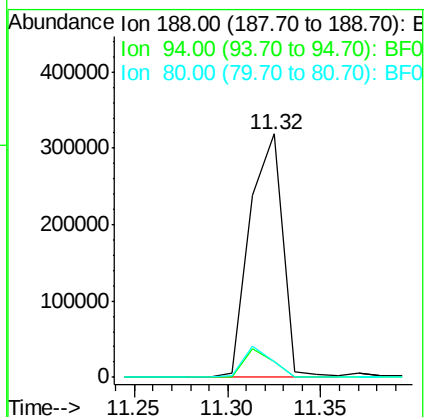
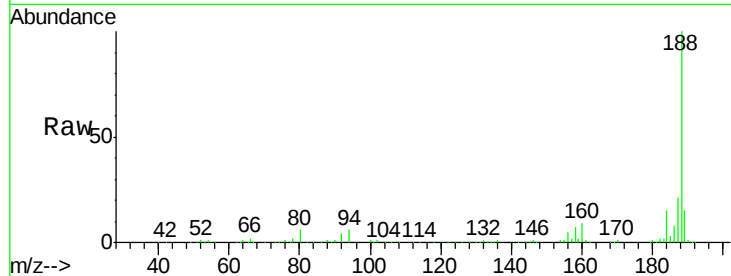




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.32 min Scan# 852  
Delta R.T. -0.00 min  
Lab File: BF087969.D  
Acq: 13 Jun 2016 1:23

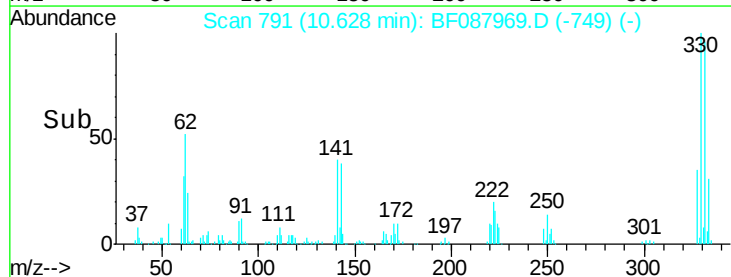
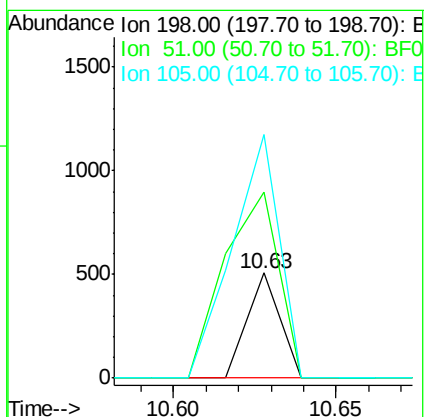
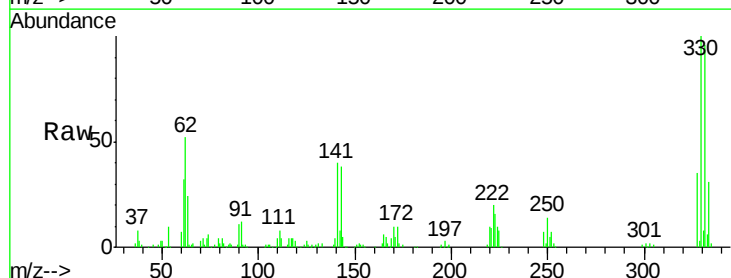
Instrument :  
BNA\_F  
ClientSampleId :  
STA-1100-(0-4)

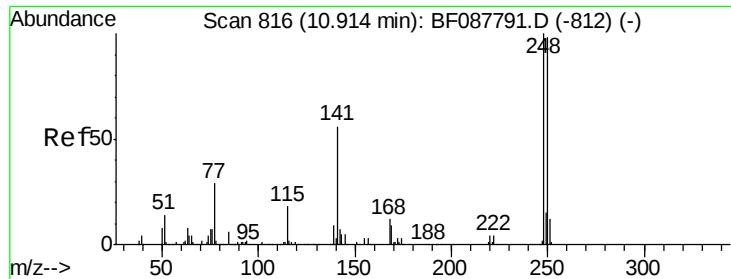
Tgt Ion:188 Resp: 395528  
Ion Ratio Lower Upper  
188 100  
94 6.4 9.0 13.6#  
80 6.3 10.0 15.0#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.30 ng  
RT: 10.63 min Scan# 791  
Delta R.T. 0.18 min  
Lab File: BF087969.D  
Acq: 13 Jun 2016 1:23

Tgt Ion:198 Resp: 347  
Ion Ratio Lower Upper  
198 100  
51 177.9 39.6 79.6#  
105 232.0 36.6 76.6#





#66

4-Bromophenyl-phenylether

Concen: 3.45 ng

RT: 10.63 min Scan# 791

Delta R.T. -0.25 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

Instrument :

BNA\_F

ClientSampleId :

STA-1100-(0-4)

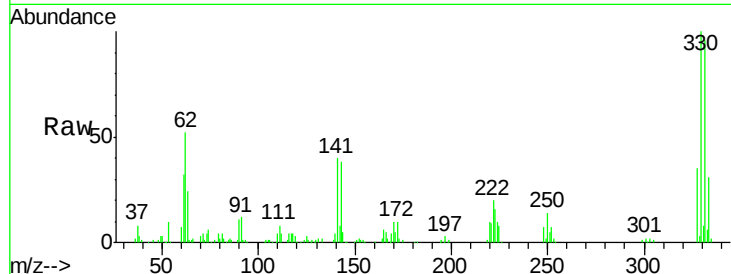
Tgt Ion:248 Resp: 14625

Ion Ratio Lower Upper

248 100

250 194.5 77.1 115.7#

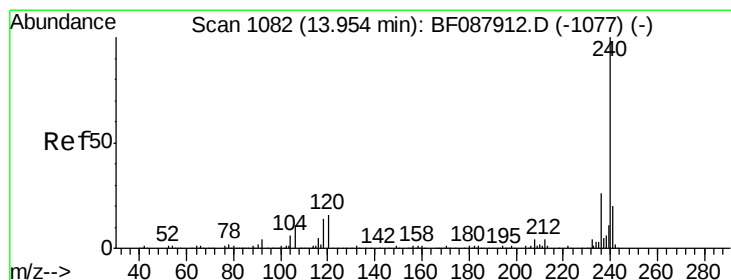
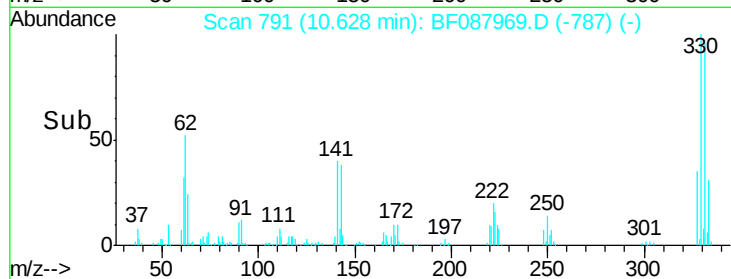
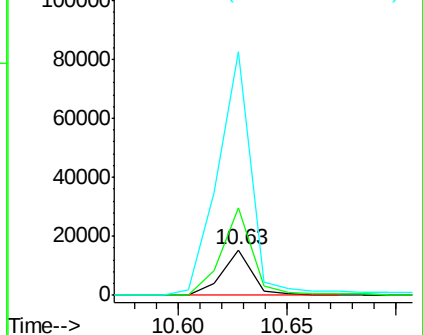
141 537.9 50.6 76.0#



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: 13.95 min Scan# 1082

Delta R.T. -0.01 min

Lab File: BF087969.D

Acq: 13 Jun 2016 1:23

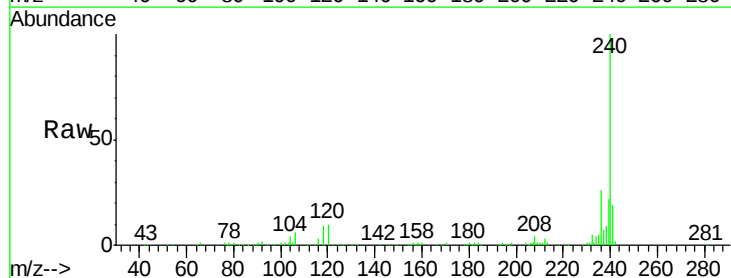
Tgt Ion:240 Resp: 240925

Ion Ratio Lower Upper

240 100

120 9.5 6.8 10.2

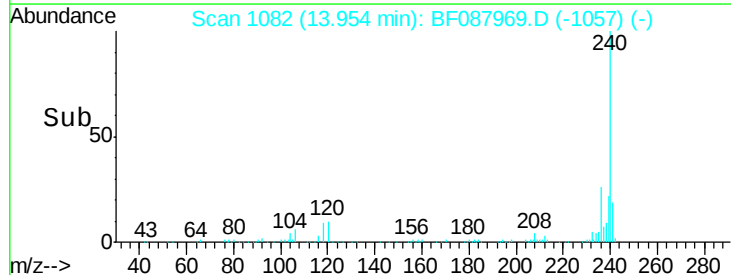
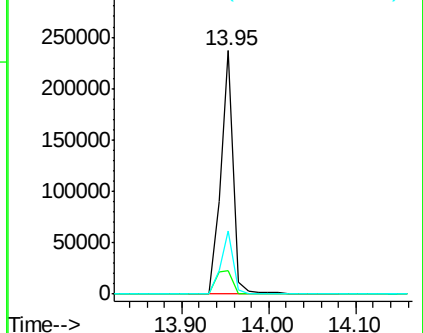
236 25.7 20.2 30.2

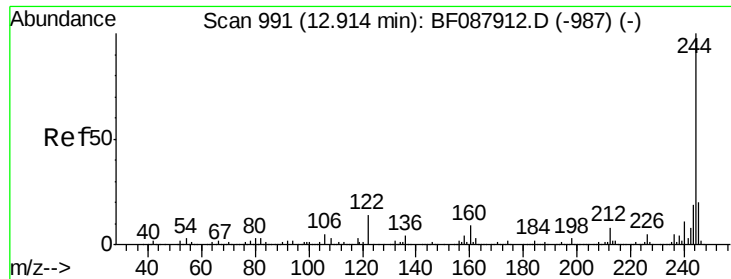


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

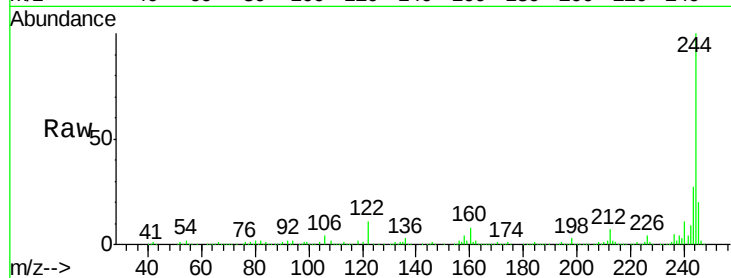




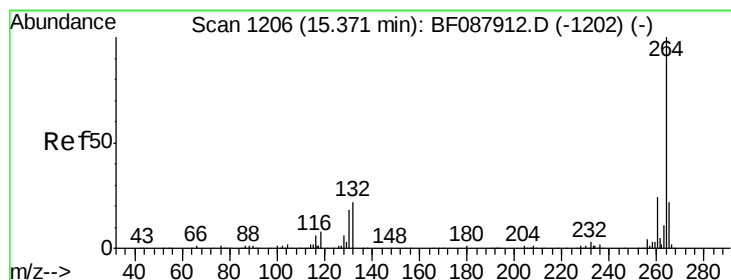
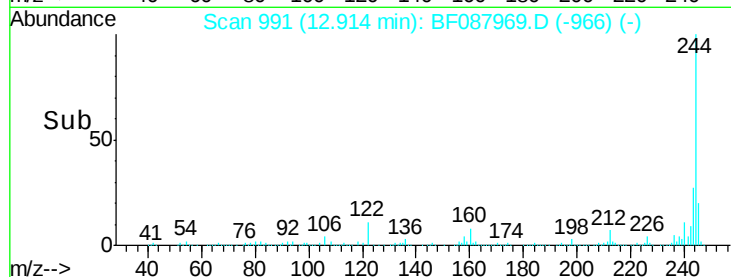
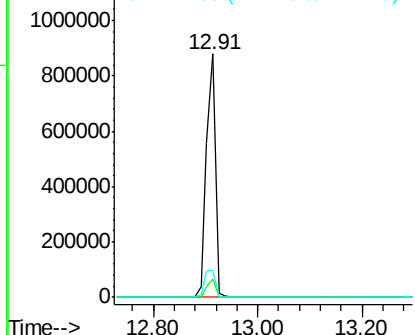
#78  
 Terphenyl-d14  
 Concen: 97.84 ng  
 RT: 12.91 min Scan# 991  
 Delta R.T. -0.01 min  
 Lab File: BF087969.D  
 Acq: 13 Jun 2016 1:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 STA-1100-(0-4)

Tgt Ion:244 Resp: 1035928  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.0 9.0  
 122 11.1 11.2 16.8#

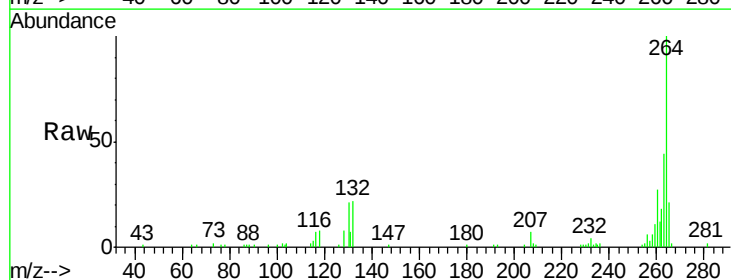


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.36 min Scan# 1205  
 Delta R.T. -0.02 min  
 Lab File: BF087969.D  
 Acq: 13 Jun 2016 1:23

Tgt Ion:264 Resp: 55222  
 Ion Ratio Lower Upper  
 264 100  
 260 26.5 19.2 28.8  
 265 20.9 16.9 25.3



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

