

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\  
 Data File : BF085762.D  
 Acq On : 25 Mar 2016 15:27  
 Operator : UM/SJ  
 Sample : H1858-10  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

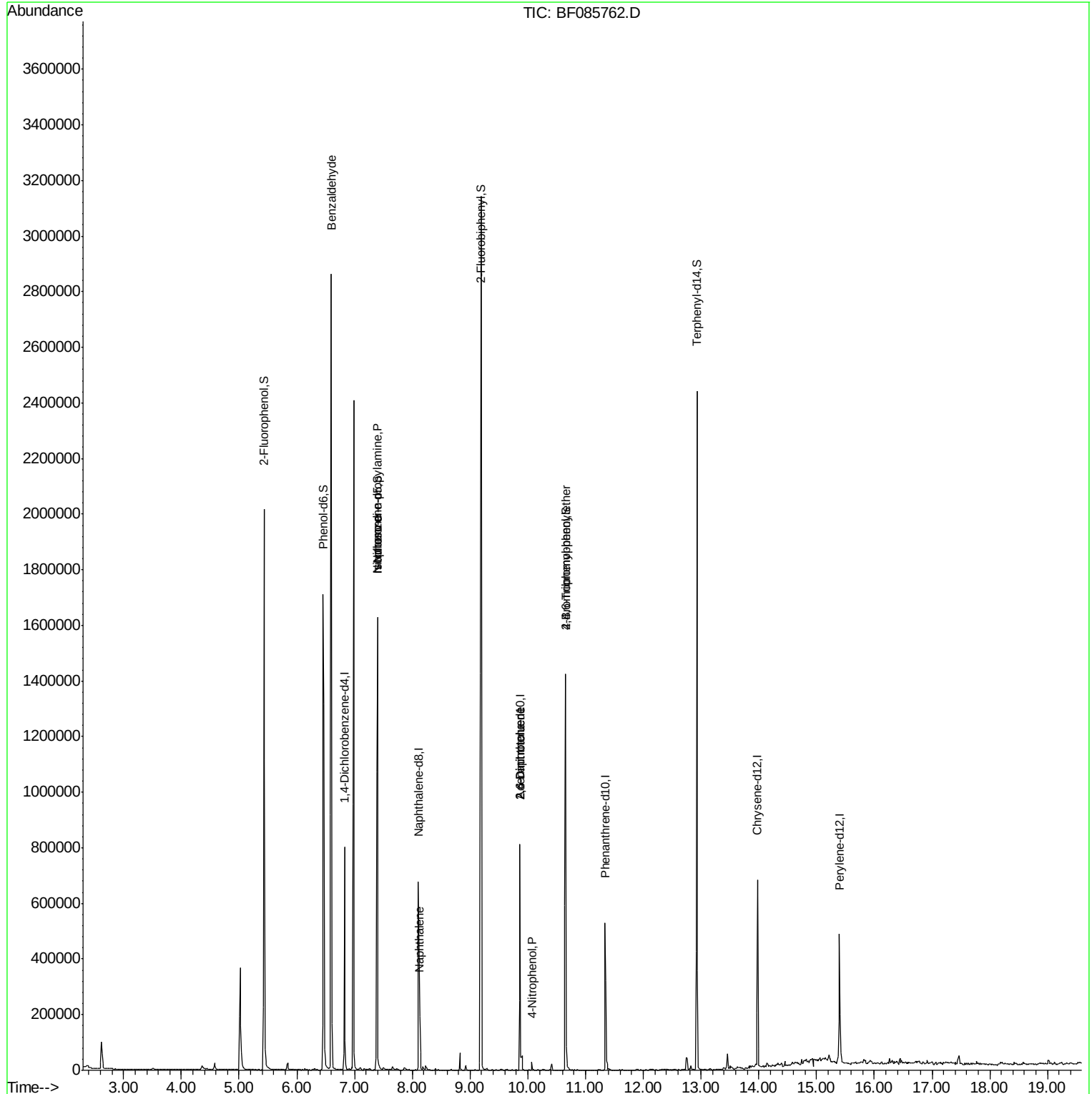
Quant Time: Mar 25 16:18:13 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 24 14:15:39 2016  
 Response via : Initial Calibration

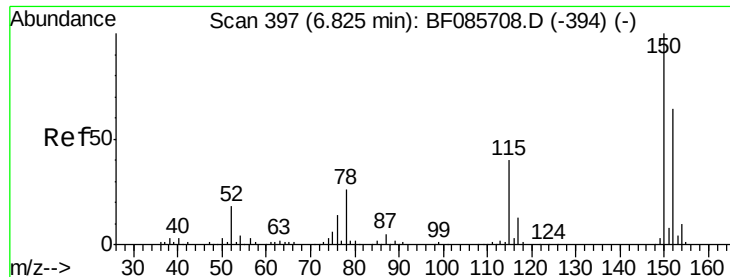
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 112527   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 8.10  | 136  | 399618   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.86  | 164  | 162513   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10           | 11.34 | 188  | 240069   | 20.00  | ng    | -0.01     |
| 75) Chrysene-d12               | 13.98 | 240  | 226854   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12               | 15.40 | 264  | 189832   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.43  | 112  | 765874   | 113.35 | ng    | 0.02      |
| 7) Phenol-d6                   | 6.46  | 99   | 914985   | 106.51 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 693492   | 97.73  | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol       | 10.65 | 330  | 191992   | 124.34 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl           | 9.19  | 172  | 1090237  | 112.08 | ng    | 0.00      |
| 78) Terphenyl-d14              | 12.93 | 244  | 721978   | 65.45  | ng    | 0.00      |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.60  | 77   | 18114    | 3.50   | ng    | Qvalue 87 |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 89917    | 17.48  | ng    | # 75      |
| 25) Isophorone                 | 7.40  | 82   | 677182   | 49.54  | ng    | # 68      |
| 31) Naphthalene                | 8.13  | 128  | 85911    | 4.27   | ng    | 98        |
| 50) 2,6-Dinitrotoluene         | 9.86  | 165  | 21295    | 8.02   | ng    | # 20      |
| 55) 4-Nitrophenol              | 10.07 | 139  | 4989     | 2.52   | ng    | # 10      |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165  | 21295    | 6.31   | ng    | # 38      |
| 66) 4-Bromophenyl-phenylether  | 10.65 | 248  | 12786    | 5.21   | ng    | # 1       |

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

```
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Sample    : H1858-10  
Misc      :  
ALS Vial  : 42      Sample Multiplier: 1
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 24 14:15:39 2016  
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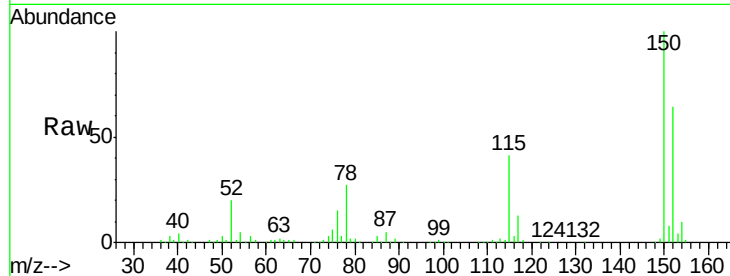


#1

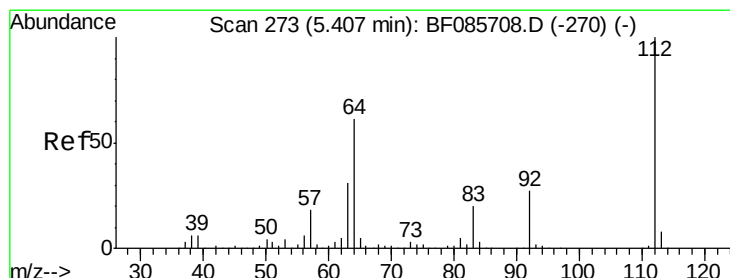
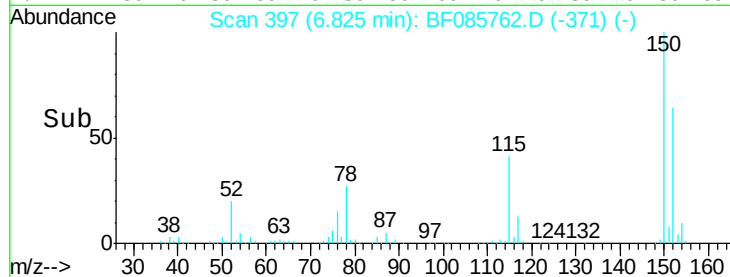
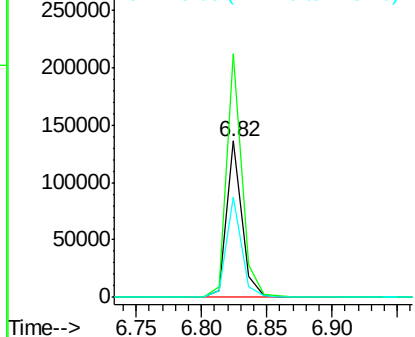
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.82 min Scan# 397  
Delta R.T. 0.00 min  
Lab File: BF085762.D  
Acq: 25 Mar 2016 15:27

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 112527  
Ion Ratio Lower Upper  
152 100  
150 155.7 124.2 186.2  
115 64.2 47.0 70.6



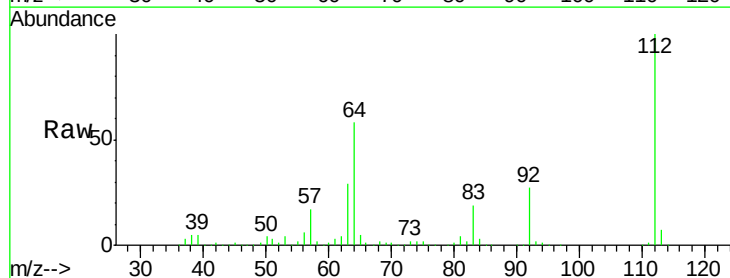
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



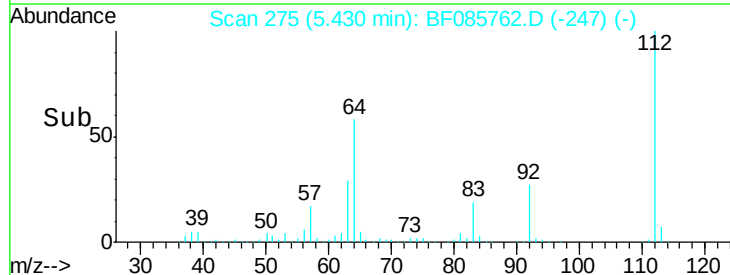
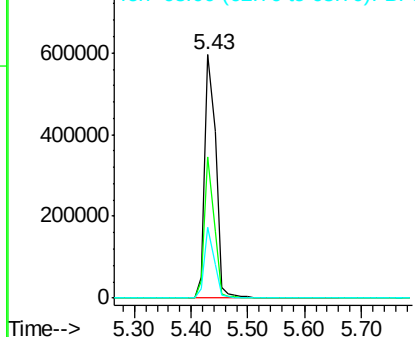
#5

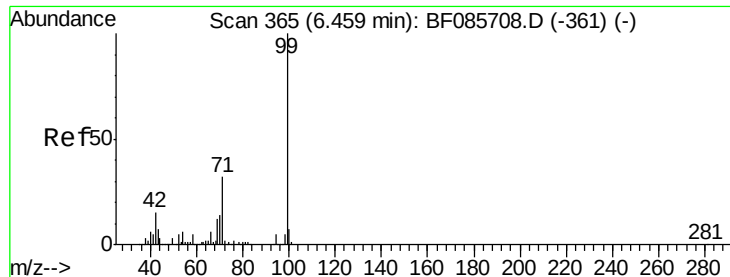
2-Fluorophenol  
Concen: 113.35 ng  
RT: 5.43 min Scan# 275  
Delta R.T. 0.02 min  
Lab File: BF085762.D  
Acq: 25 Mar 2016 15:27

Tgt Ion:112 Resp: 765874  
Ion Ratio Lower Upper  
112 100  
64 57.8 39.9 59.9  
63 29.3 20.2 30.2



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: 106.51 ng

RT: 6.46 min Scan# 365

Delta R.T. 0.00 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

Instrument :

BNA\_F

ClientSampleId :

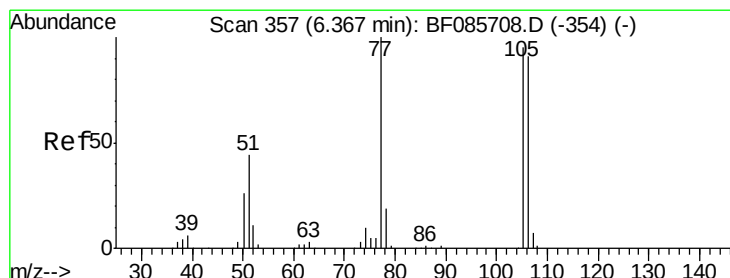
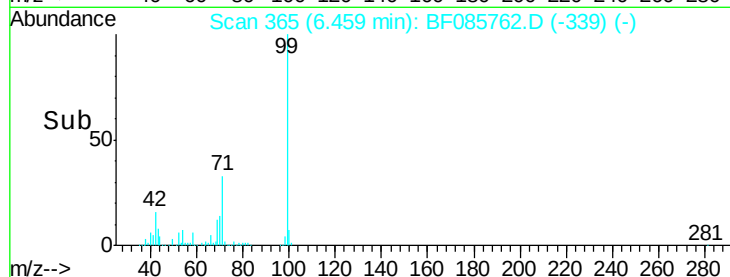
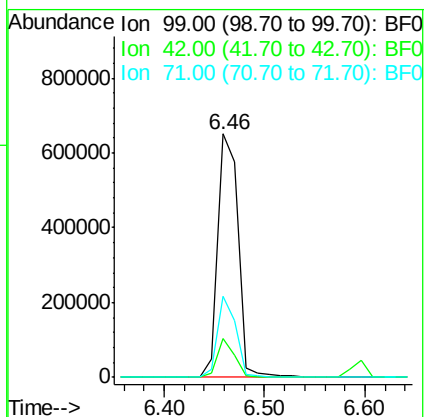
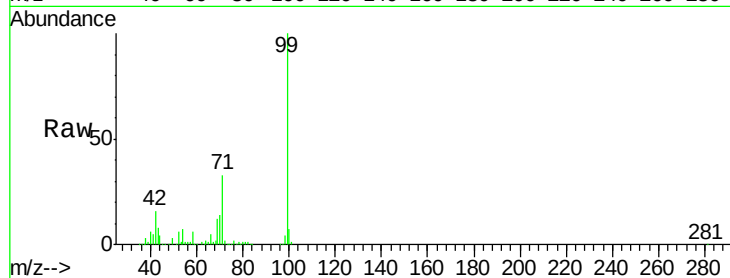
Tot Ion: 99 Resp: 914985

Ion Ratio Lower Upper

99 100

42 16.2 11.1 16.7

71 33.3 24.9 37.3



#9

Benzaldehyde

Concen: 3.50 ng

RT: 6.60 min Scan# 377

Delta R.T. 0.23 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

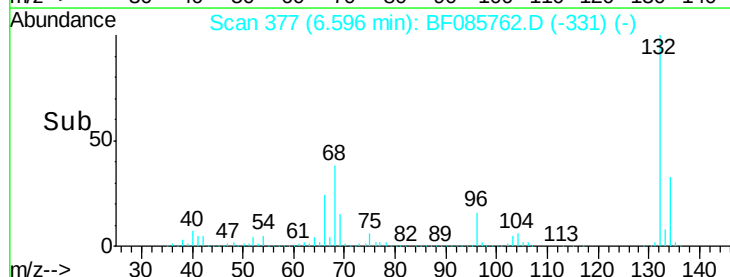
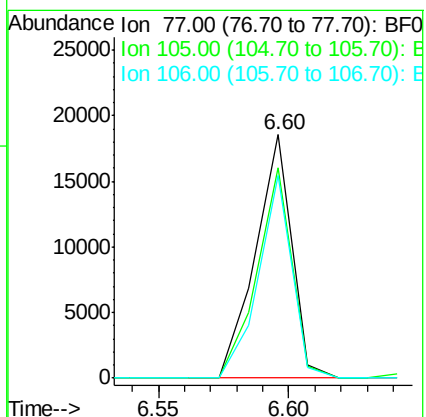
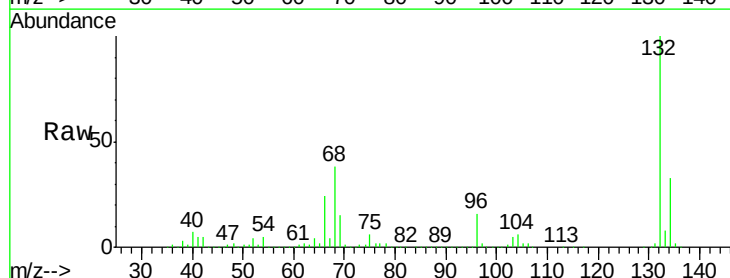
Tgt Ion: 77 Resp: 18114

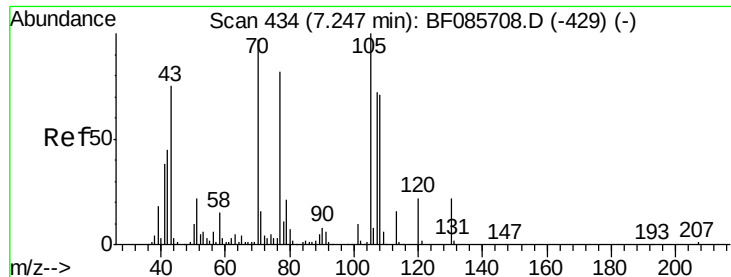
Ion Ratio Lower Upper

77 100

105 86.2 80.1 120.1

106 83.1 75.0 115.0





#19

n-Nitroso-di-n-propylamine

Concen: 17.48 ng

RT: 7.40 min Scan# 447

Delta R.T. 0.15 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 89917

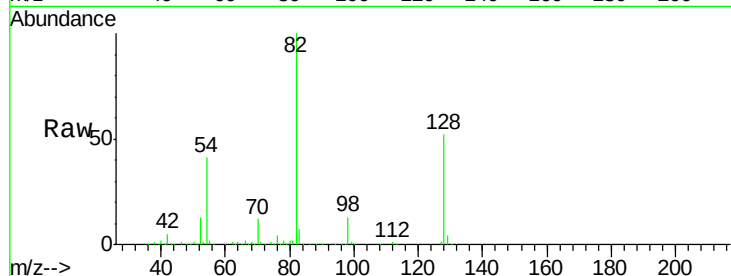
Ion Ratio Lower Upper

70 100

42 37.0 37.1 55.7#

101 0.0 8.6 12.8#

130 2.7 19.6 29.4#

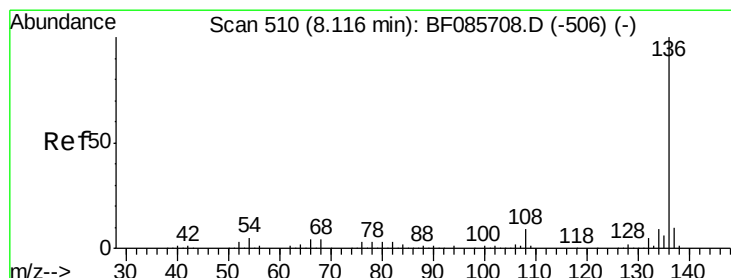
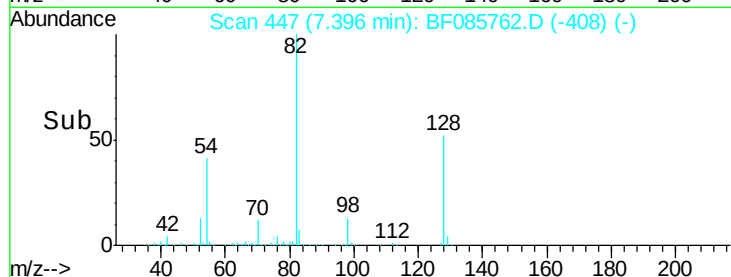
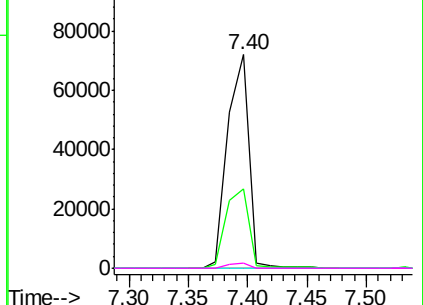


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

Tgt Ion: 136 Resp: 399618

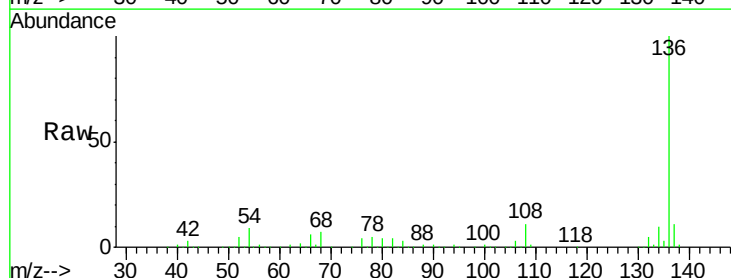
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 9.1 7.4 11.0

68 7.0 5.8 8.8

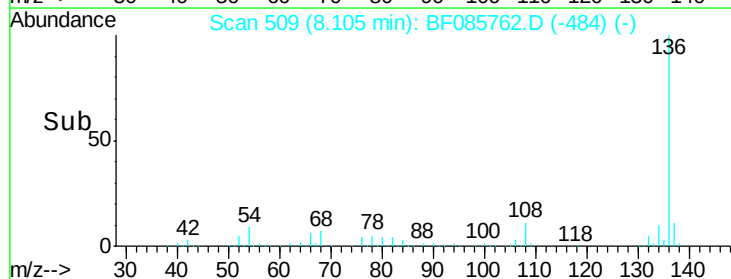
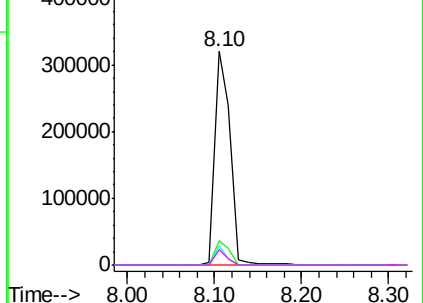


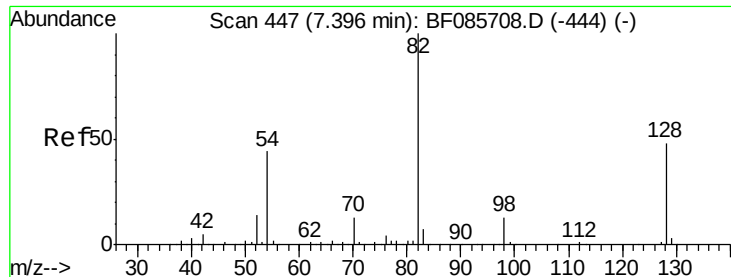
Abundance Ion 136.00 (135.70 to 136.70): E

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

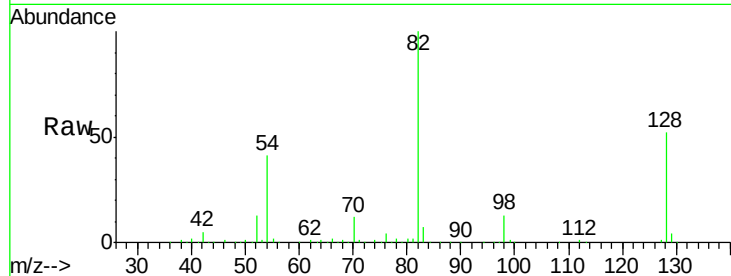




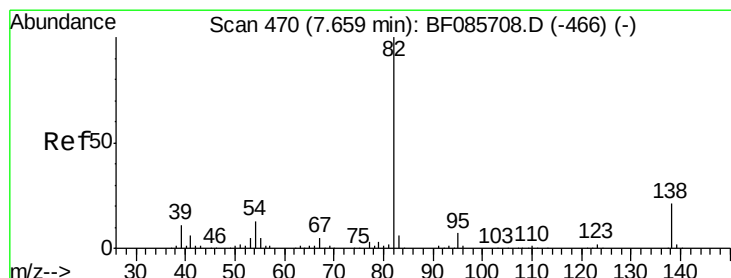
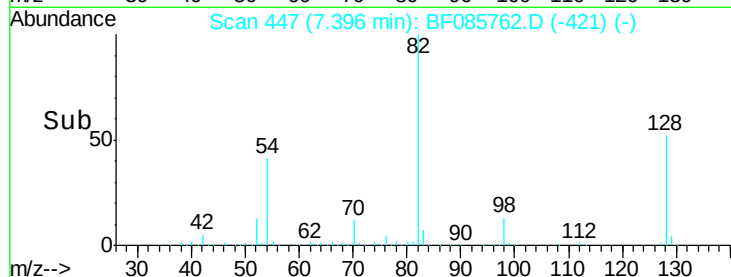
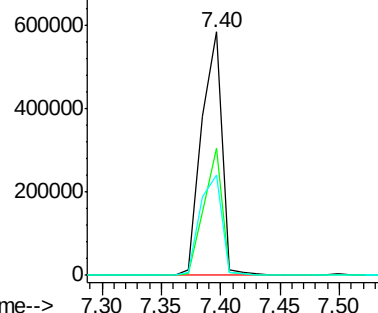
#23  
 Nitrobenzene-d5  
 Concen: 97.73 ng  
 RT: 7.40 min Scan# 447  
 Delta R.T. 0.00 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 693492  
 Ion Ratio Lower Upper  
 82 100  
 128 52.0 41.8 62.8  
 54 41.1 33.4 50.0

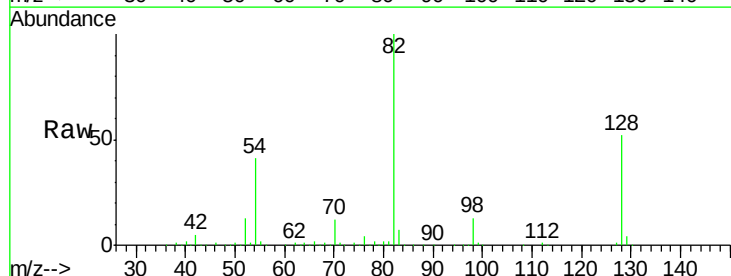


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

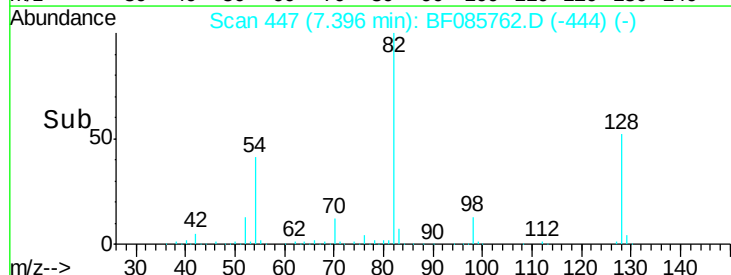
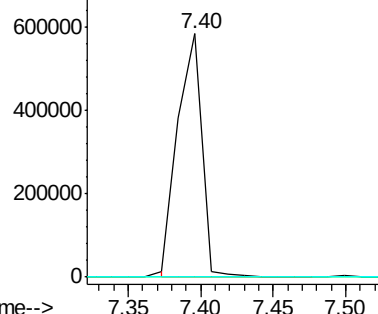


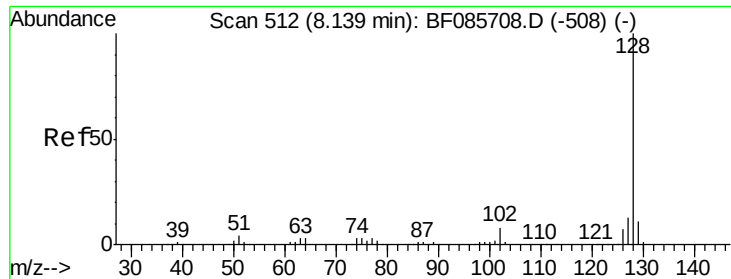
#25  
 Isophorone  
 Concen: 49.54 ng  
 RT: 7.40 min Scan# 447  
 Delta R.T. -0.26 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

Tgt Ion: 82 Resp: 677182  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.2#  
 138 0.0 12.9 19.3#



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): BF0





#31

Naphthalene

Concen: 4.27 ng

RT: 8.13 min Scan# 511

Delta R.T. -0.01 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

Instrument :

BNA\_F

ClientSampled :

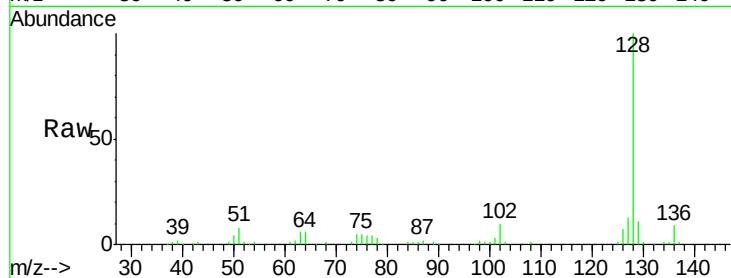
Tot Ion:128 Resp: 85911

Ion Ratio Lower Upper

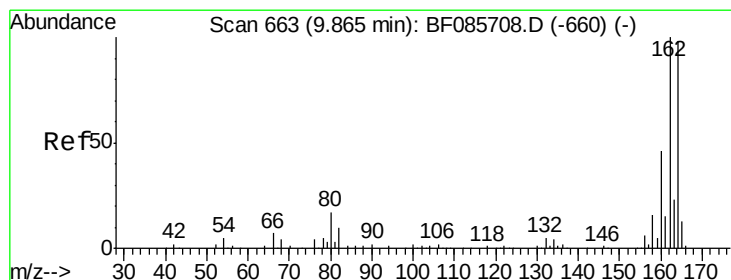
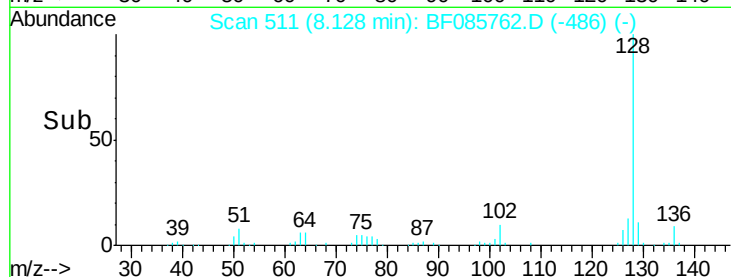
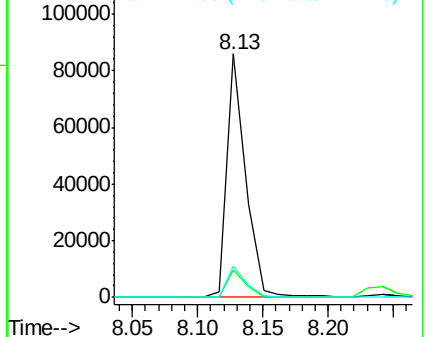
128 100

129 11.3 9.4 14.0

127 13.0 11.0 16.6



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.86 min Scan# 663

Delta R.T. 0.00 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

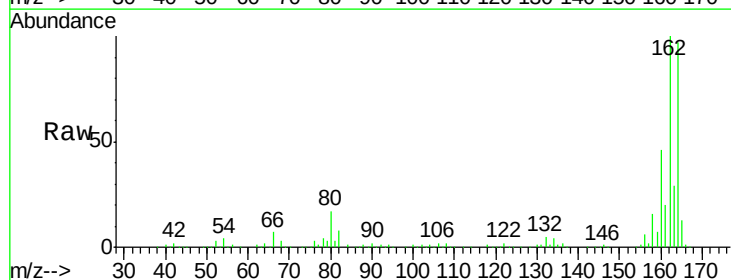
Tgt Ion:164 Resp: 162513

Ion Ratio Lower Upper

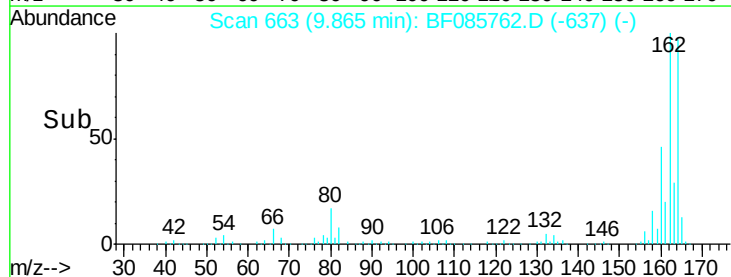
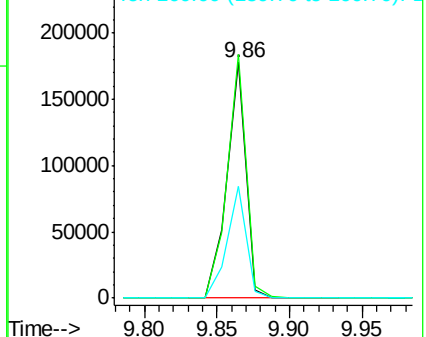
164 100

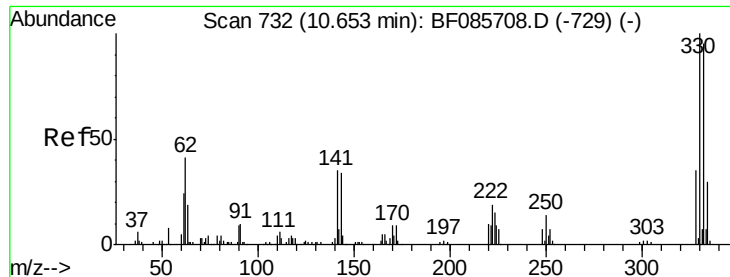
162 103.4 82.1 123.1

160 47.4 37.4 56.2



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

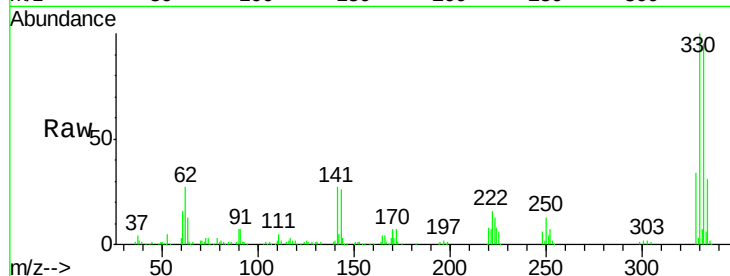




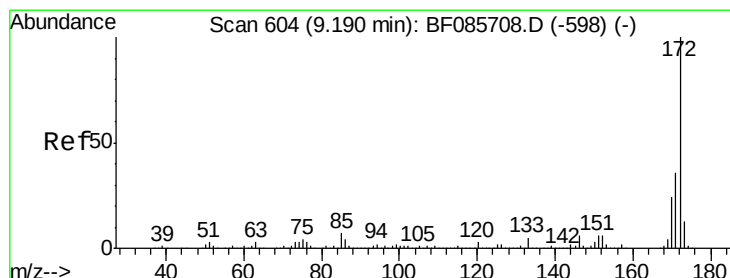
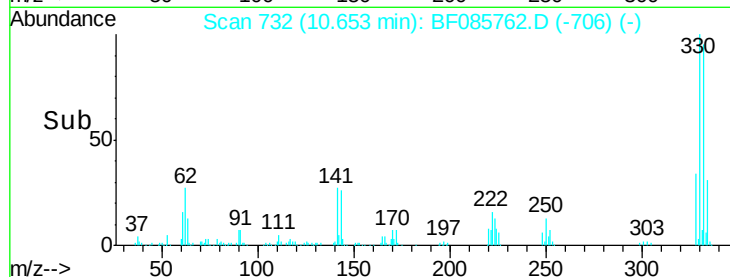
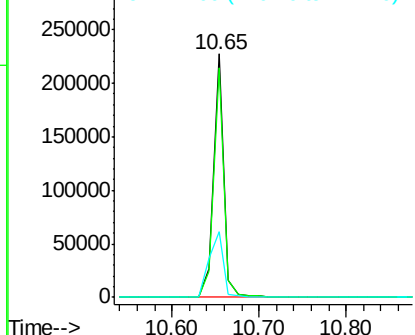
#41  
 2,4,6-Tribromophenol  
 Concen: 124.34 ng  
 RT: 10.65 min Scan# 732  
 Delta R.T. 0.00 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.1  | 78.2  | 117.2 |
| 141     | 37.3  | 31.5  | 47.3  |

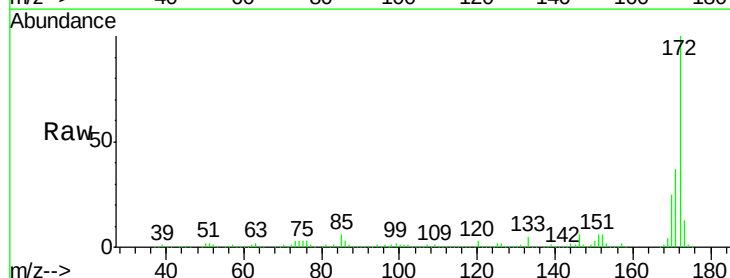


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

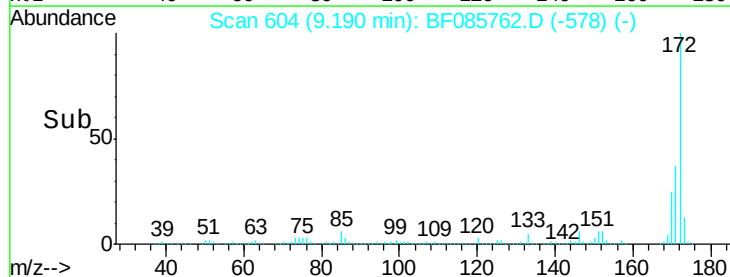
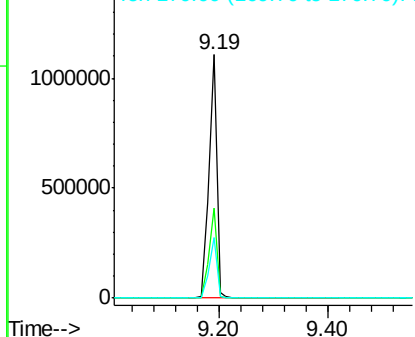


#44  
 2-Fluorobiphenyl  
 Concen: 112.08 ng  
 RT: 9.19 min Scan# 604  
 Delta R.T. 0.00 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

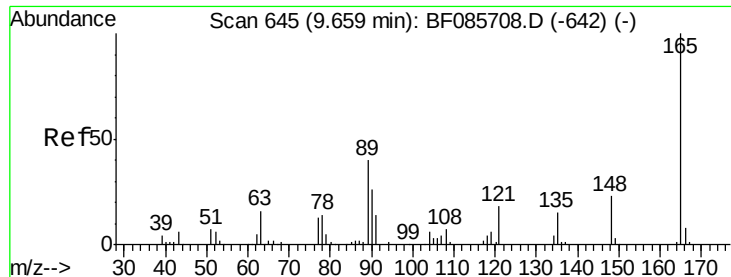
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.4  | 44.2  |
| 170     | 24.9  | 19.8  | 29.6  |



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



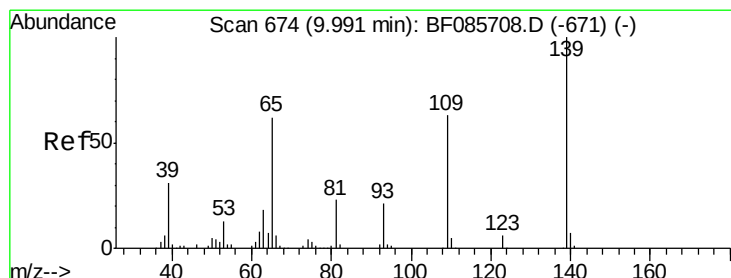
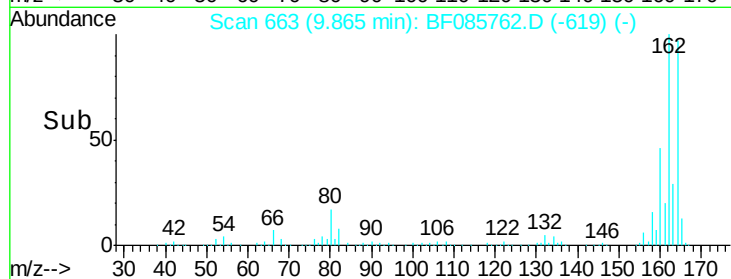
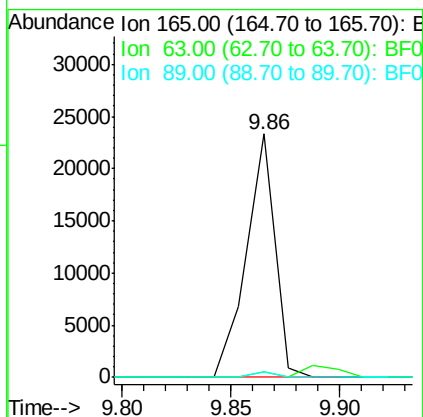
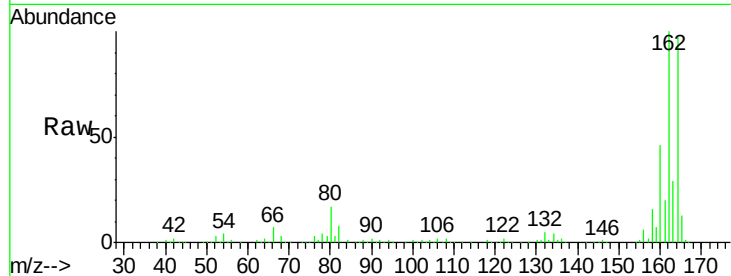




#50  
 2,6-Dinitrotoluene  
 Concen: 8.02 ng  
 RT: 9.86 min Scan# 663  
 Delta R.T. 0.21 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

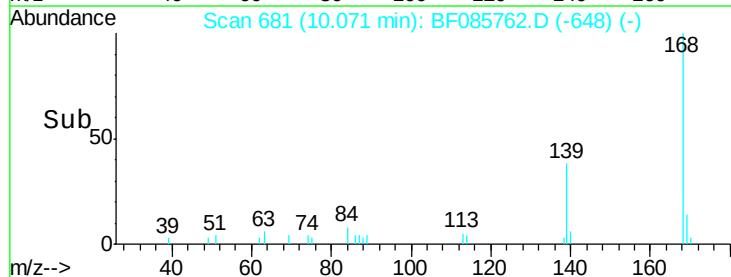
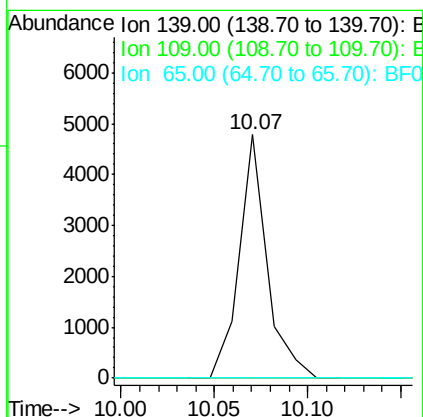
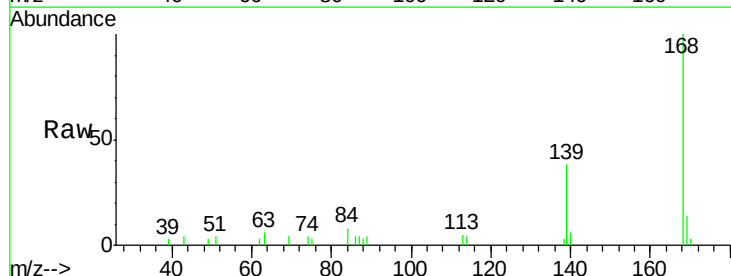
Instrument :  
 BNA\_F  
 ClientSampleId :

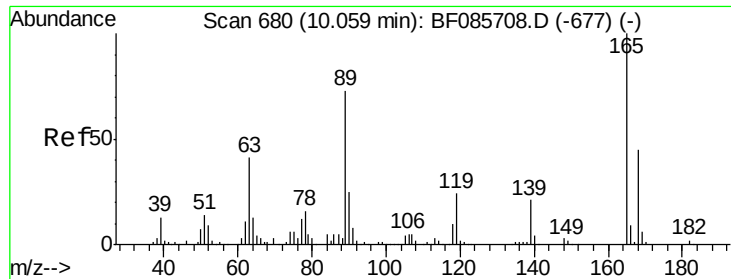
Tot Ion:165 Resp: 21295  
 Ion Ratio Lower Upper  
 165 100  
 63 2.0 51.8 77.8#  
 89 2.2 53.7 80.5#



#55  
 4-Nitrophenol  
 Concen: 2.52 ng  
 RT: 10.07 min Scan# 681  
 Delta R.T. 0.08 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

Tgt Ion:139 Resp: 4989  
 Ion Ratio Lower Upper  
 139 100  
 109 0.0 49.2 89.2#  
 65 0.0 66.9 106.9#

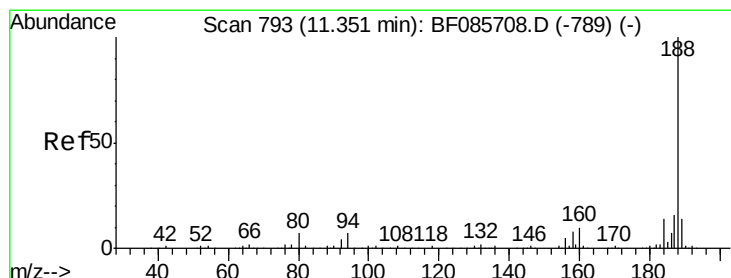
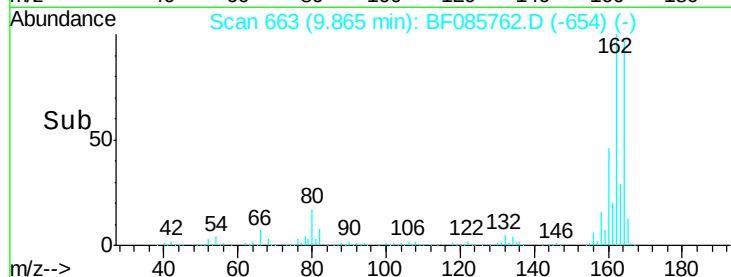
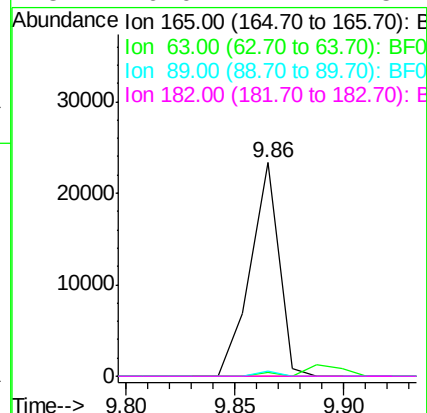
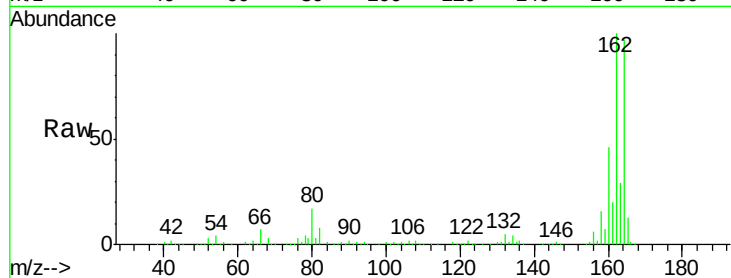




#56  
 2,4-Dinitrotoluene  
 Concen: 6.31 ng  
 RT: 9.86 min Scan# 663  
 Delta R.T. -0.19 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

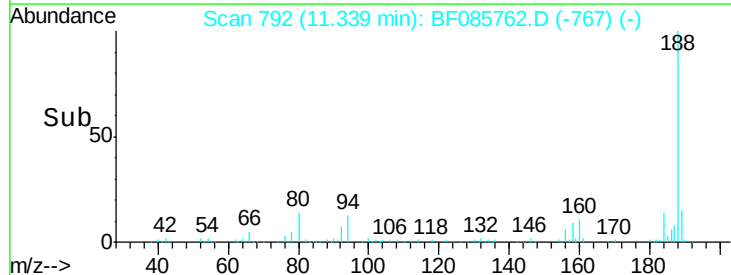
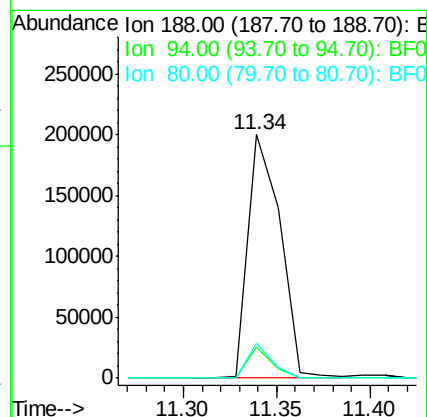
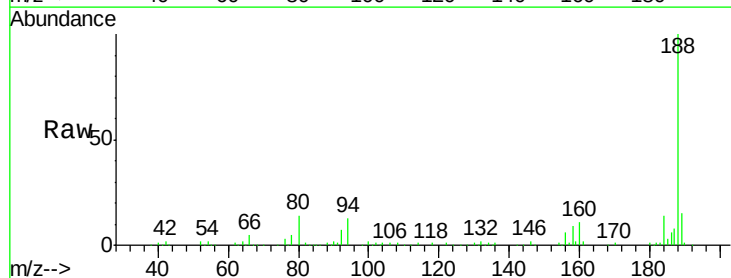
Instrument :  
 BNA\_F  
 ClientSampleId :

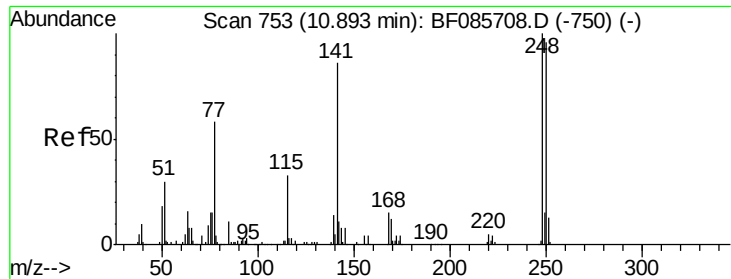
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 24.9  | 37.3# |
| 89      | 2.2   | 41.0  | 61.6# |
| 182     | 0.0   | 2.1   | 3.1#  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.34 min Scan# 792  
 Delta R.T. -0.01 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 13.0  | 5.4   | 8.0#  |
| 80      | 14.1  | 5.5   | 8.3#  |





#66

4-Bromophenyl-phenylether

Concen: 5.21 ng

RT: 10.65 min Scan# 732

Delta R.T. -0.24 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

Instrument :

BNA\_F

ClientSampleId :

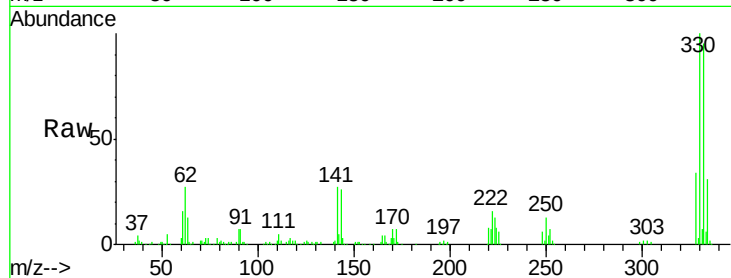
Tot Ion:248 Resp: 12786

Ion Ratio Lower Upper

248 100

250 200.3 77.4 116.0#

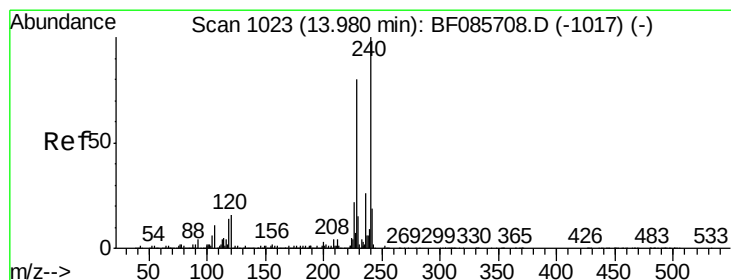
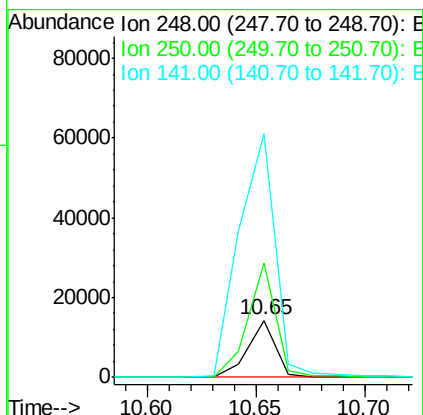
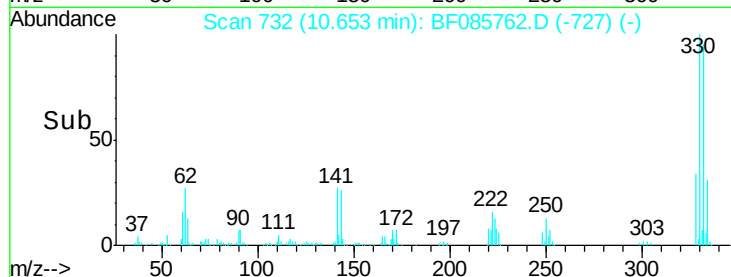
141 426.4 63.6 95.4#



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: 13.98 min Scan# 1023

Delta R.T. 0.00 min

Lab File: BF085762.D

Acq: 25 Mar 2016 15:27

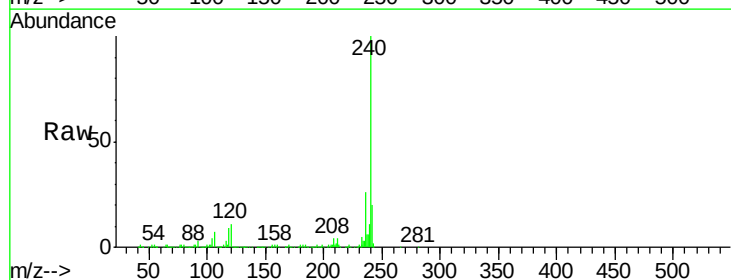
Tgt Ion:240 Resp: 226854

Ion Ratio Lower Upper

240 100

120 10.9 13.8 20.8#

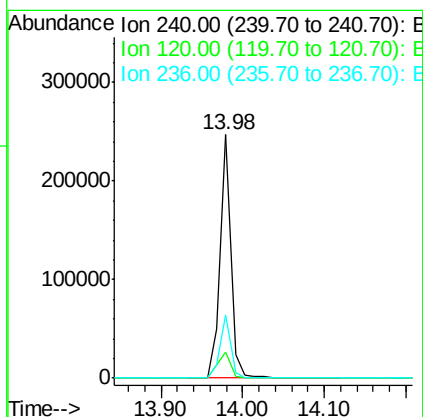
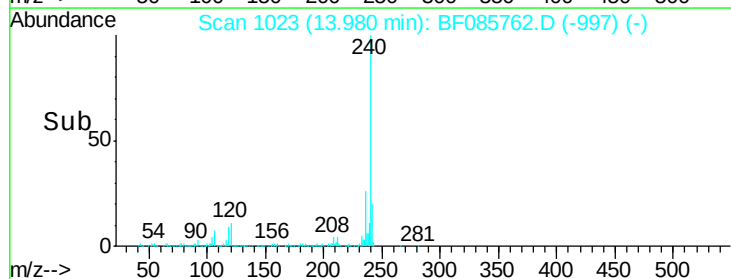
236 26.0 20.6 30.8

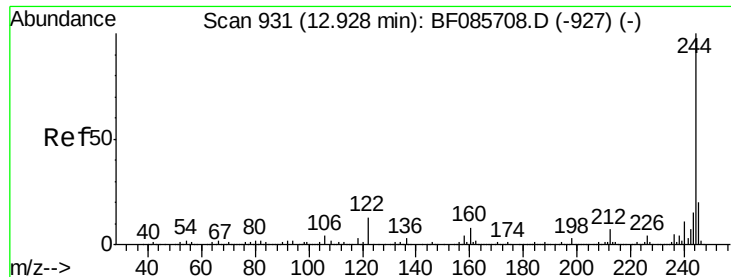


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

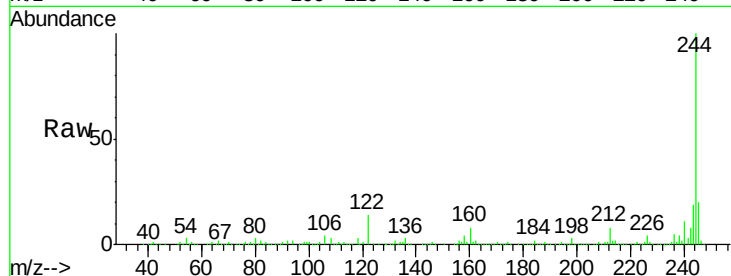




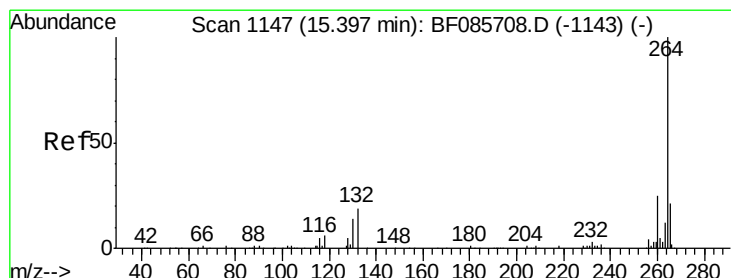
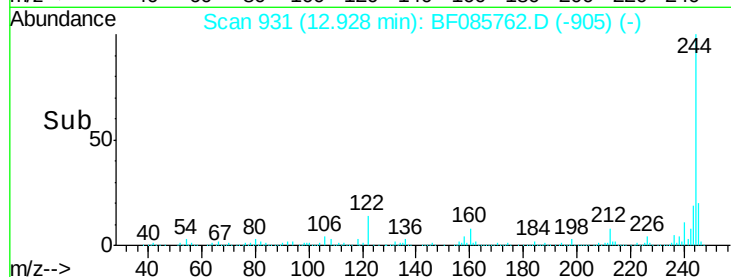
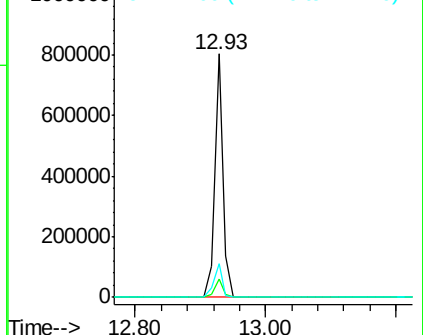
#78  
 Terphenyl-d14  
 Concen: 65.45 ng  
 RT: 12.93 min Scan# 931  
 Delta R.T. 0.00 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 721978  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 6.1 9.1  
 122 13.7 10.2 15.4

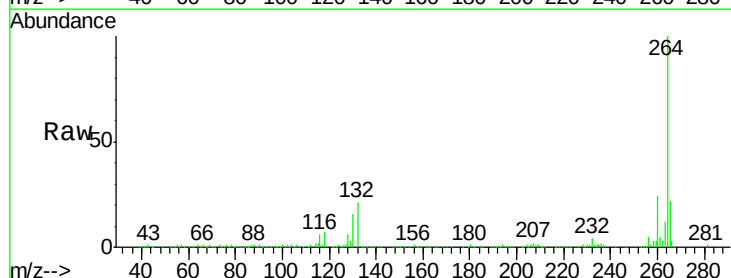


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.40 min Scan# 1147  
 Delta R.T. 0.00 min  
 Lab File: BF085762.D  
 Acq: 25 Mar 2016 15:27

Tgt Ion:264 Resp: 189832  
 Ion Ratio Lower Upper  
 264 100  
 260 24.5 19.4 29.2  
 265 22.3 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

