

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030916\  
 Data File : BF085301.D  
 Acq On : 9 Mar 2016 16:15  
 Operator : UM/SJ  
 Sample : H1623-01RE  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-28-022516

Quant Time: Mar 09 23:49:39 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 206400   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 8.23  | 136  | 709921   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.99  | 164  | 351573   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.48 | 188  | 694064   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 14.12 | 240  | 466552   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.57 | 264  | 301452   | 20.00 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.58  | 112  | 1498257  | 121.76 | ng    | 0.00     |
| 7) Phenol-d6                | 6.58  | 99   | 1642352  | 101.88 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 1075776  | 81.09  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.78 | 330  | 487452   | 162.04 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.32  | 172  | 2094573  | 90.61  | ng    | -0.03    |
| 78) Terphenyl-d14           | 13.07 | 244  | 1908490  | 94.96  | ng    | -0.02    |

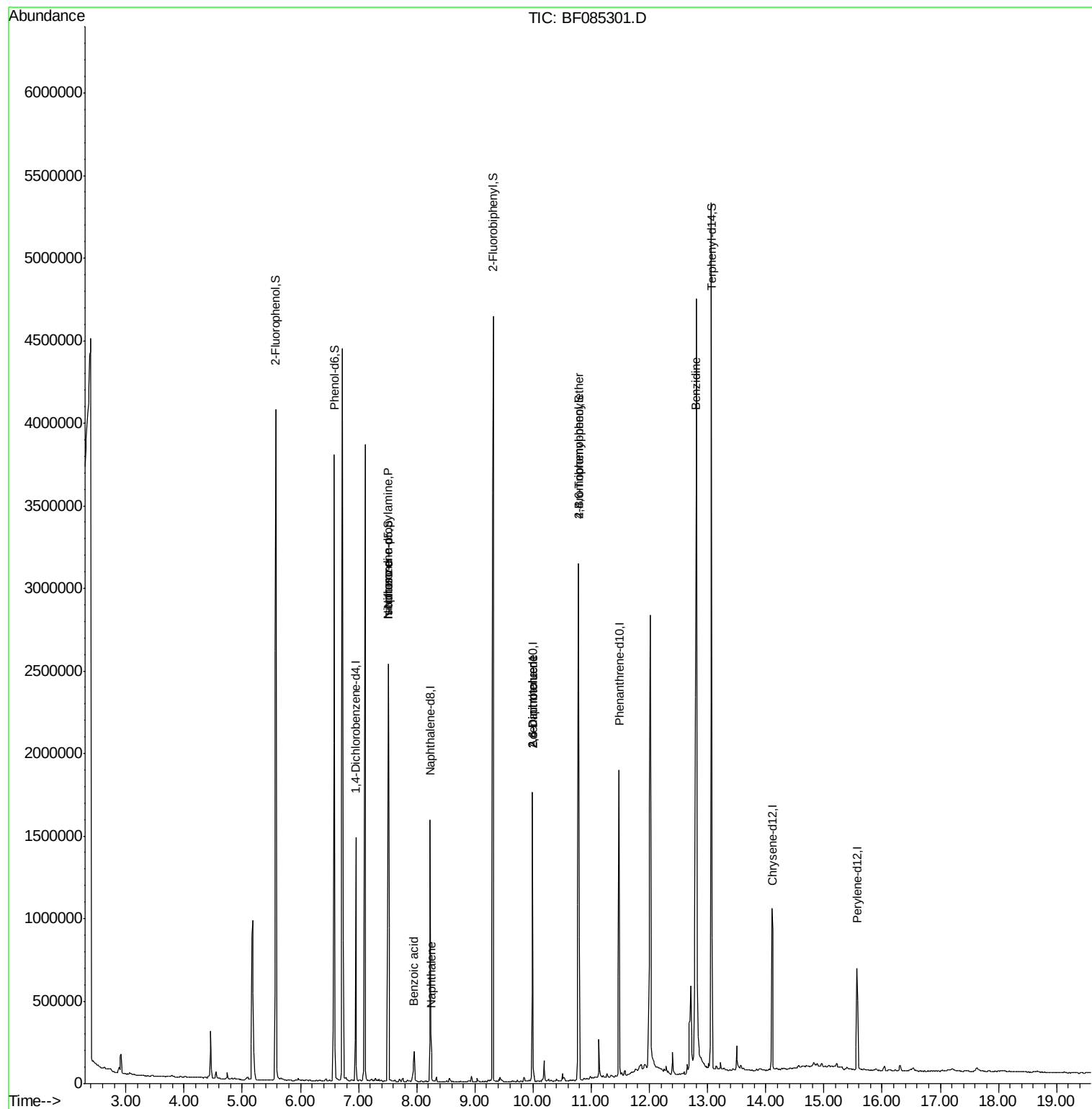
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.49  | 77   | 1092     | Below Cal |       | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.51  | 70   | 142907   | 13.60     | ng    | # 78   |
| 25) Isophorone                 | 7.51  | 82   | 837127   | 34.05     | ng    | # 67   |
| 31) Naphthalene                | 8.25  | 128  | 71729    | 2.05      | ng    | 96     |
| 32) Benzoic acid               | 7.96  | 122  | 53702    | 6.75      | ng    | 96     |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 45590    | 7.90      | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 45593    | 6.17      | ng    | # 21   |
| 66) 4-Bromophenyl-phenylether  | 10.78 | 248  | 30881    | 4.58      | ng    | # 1    |
| 76) Benzidine                  | 12.80 | 184  | 59203    | 4.26      | ng    | # 1    |

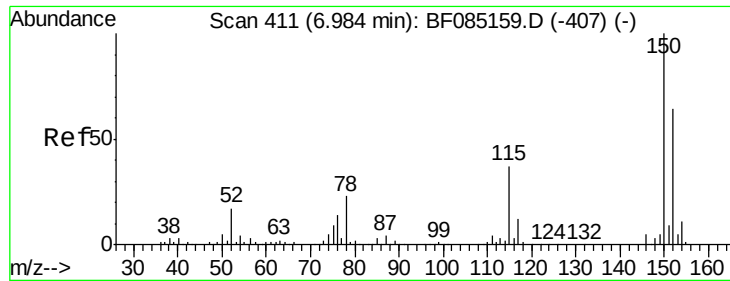
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.95 min Scan# 408

Delta R.T. -0.03 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-28-022516

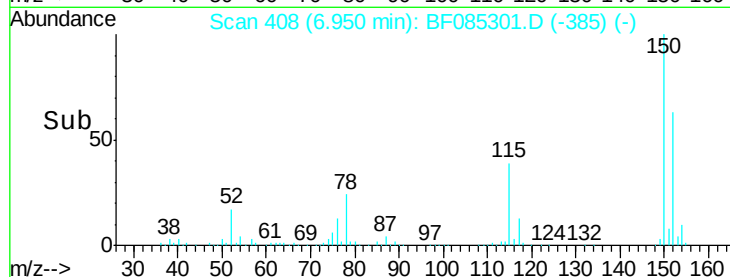
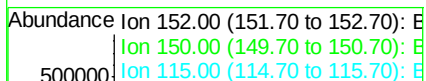
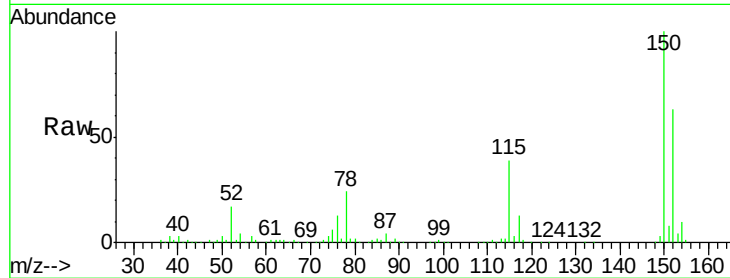
Tgt Ion:152 Resp: 206400

Ion Ratio Lower Upper

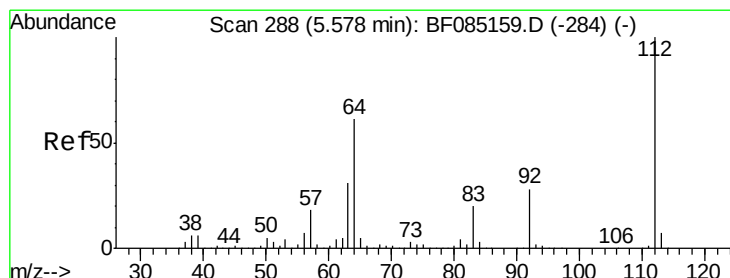
152 100

150 159.5 124.6 186.8

115 62.3 46.6 70.0



Time-->



#5

2-Fluorophenol

Concen: 121.76 ng

RT: 5.58 min Scan# 288

Delta R.T. 0.00 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

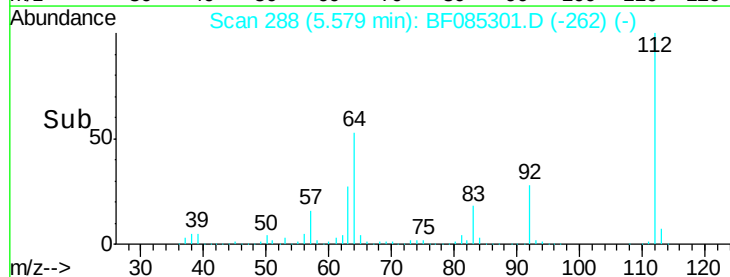
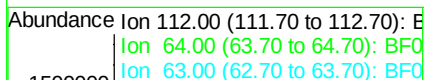
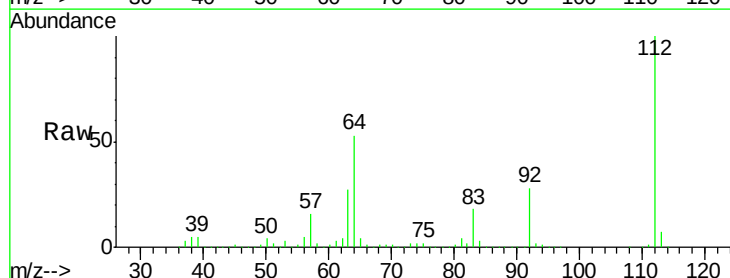
Tgt Ion:112 Resp: 1498257

Ion Ratio Lower Upper

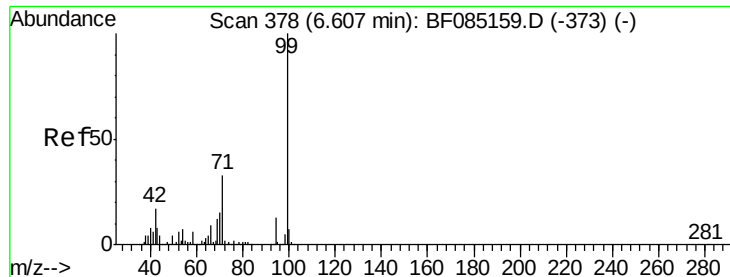
112 100

64 53.2 49.0 73.4

63 27.2 24.8 37.2



Time-->



#7

Phenol-d6

Concen: 101.88 ng

RT: 6.58 min Scan# 376

Delta R.T. -0.02 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-28-022516

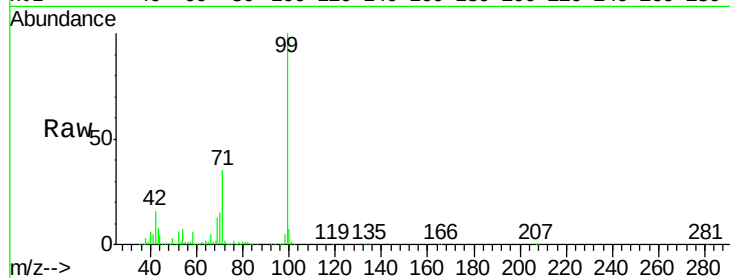
Tgt Ion: 99 Resp: 1642352

Ion Ratio Lower Upper

99 100

42 16.4 13.6 20.4

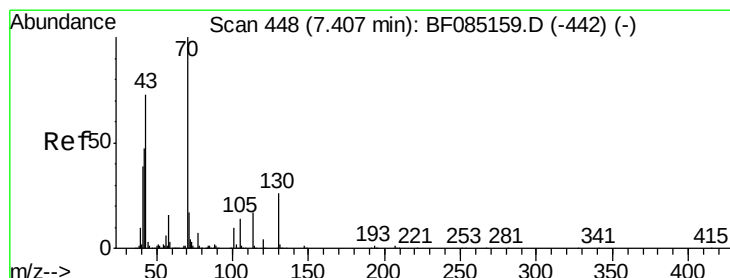
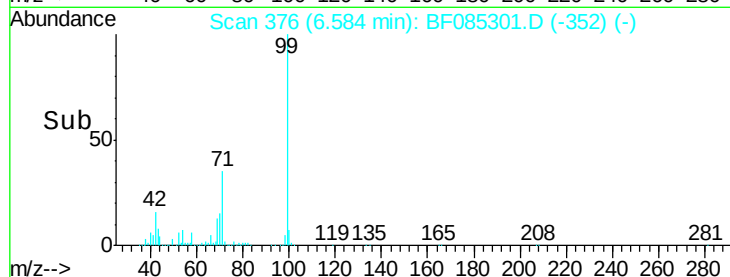
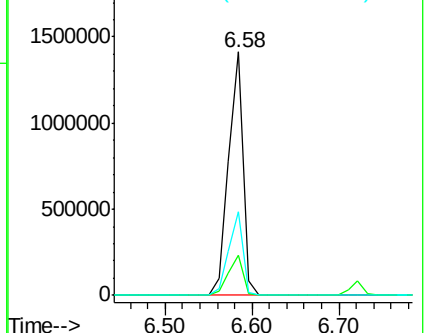
71 34.6 26.7 40.1



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.60 ng

RT: 7.51 min Scan# 457

Delta R.T. 0.10 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

Tgt Ion: 70 Resp: 142907

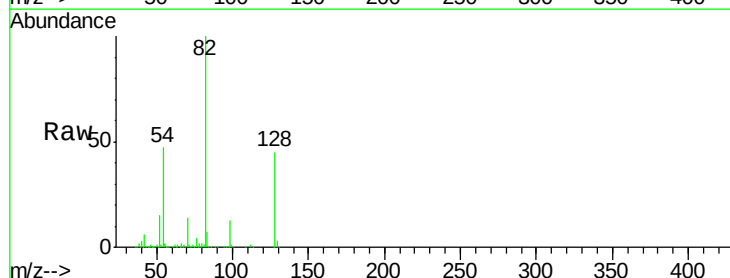
Ion Ratio Lower Upper

70 100

42 42.1 37.7 56.5

101 0.0 8.2 12.4#

130 2.1 20.5 30.7#

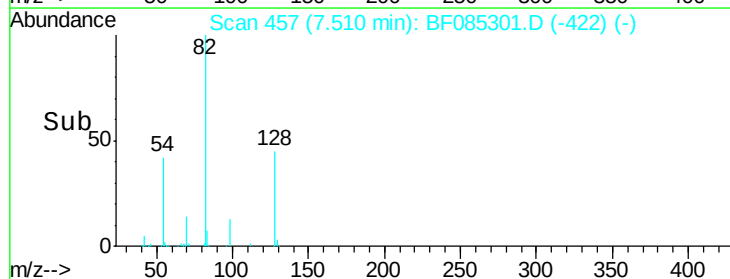
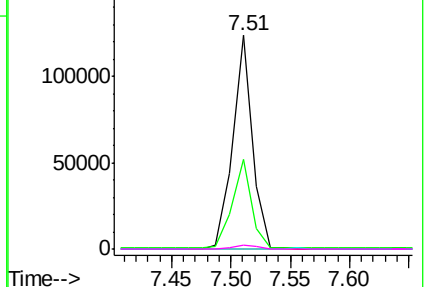


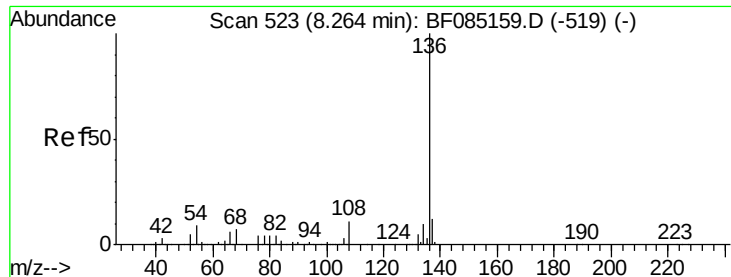
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

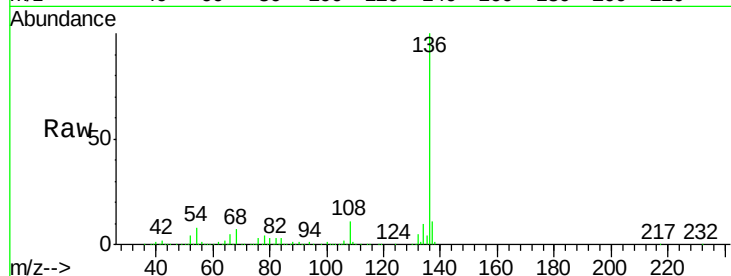




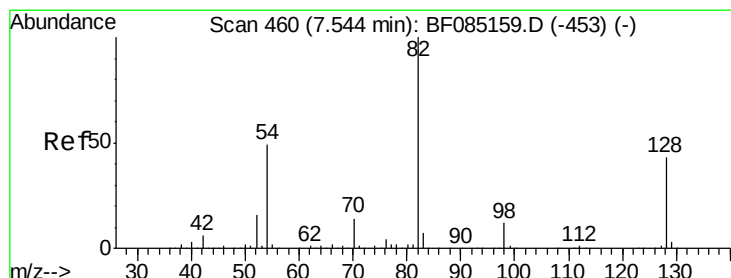
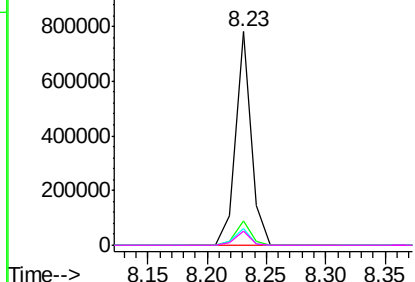
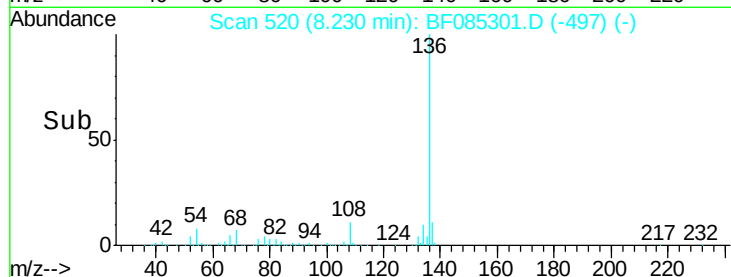
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.23 min Scan# 520  
Delta R.T. -0.03 min  
Lab File: BF085301.D  
Acq: 9 Mar 2016 16:15

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-28-022516

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 709921 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.3   | 13.9   |
| 54       | 7.6   | 7.4   | 11.2   |
| 68       | 6.6   | 6.0   | 9.0    |

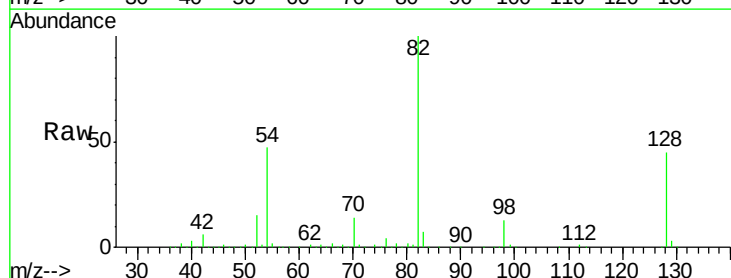


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

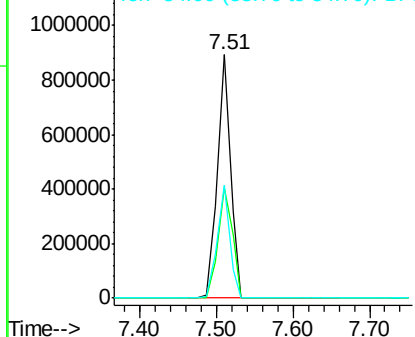
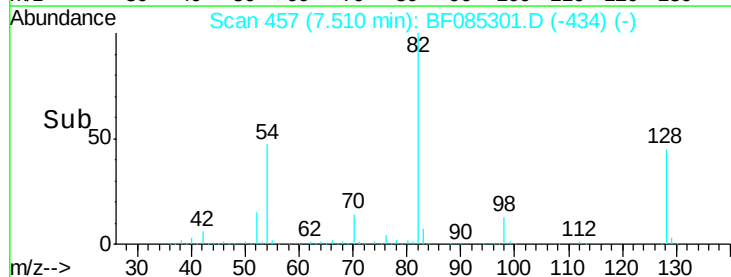


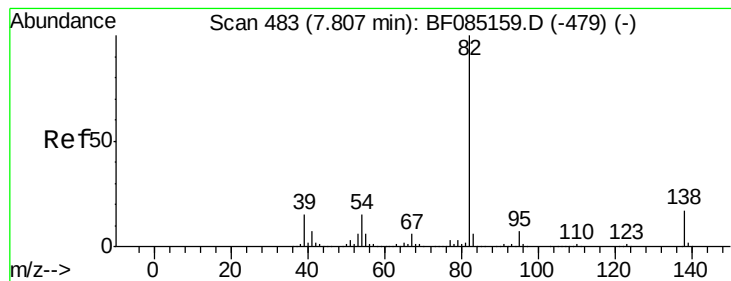
#23  
Nitrobenzene-d5  
Concen: 81.09 ng  
RT: 7.51 min Scan# 457  
Delta R.T. -0.03 min  
Lab File: BF085301.D  
Acq: 9 Mar 2016 16:15

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1075776 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 45.4  | 34.5  | 51.7    |
| 54       | 46.7  | 39.3  | 58.9    |



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





#25

Isophorone

Concen: 34.05 ng

RT: 7.51 min Scan# 457

Delta R.T. -0.30 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-28-022516

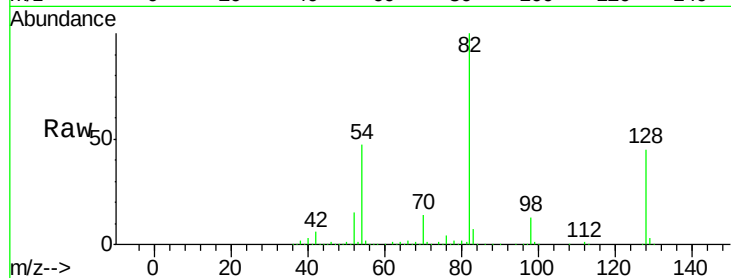
Tgt Ion: 82 Resp: 837127

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

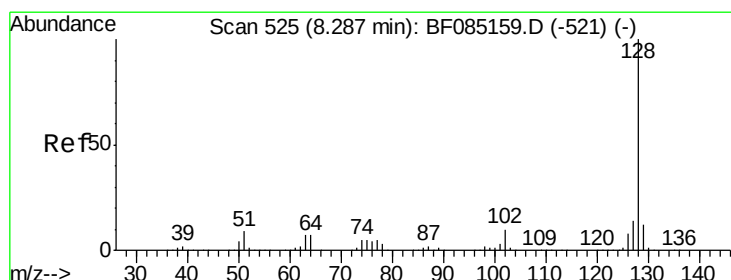
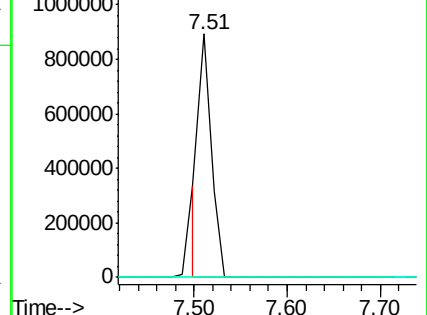
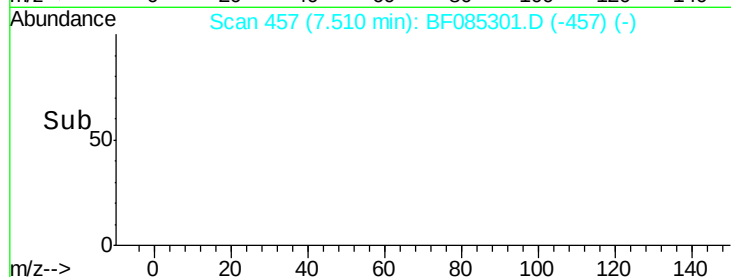
138 0.0 13.3 19.9#



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: 2.05 ng

RT: 8.25 min Scan# 522

Delta R.T. -0.03 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

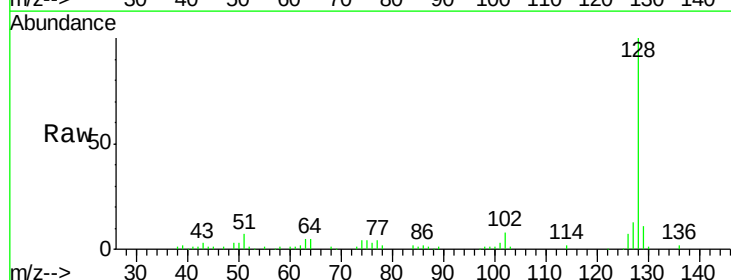
Tgt Ion: 128 Resp: 71729

Ion Ratio Lower Upper

128 100

129 10.6 9.7 14.5

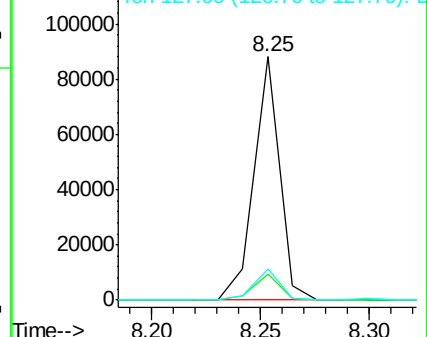
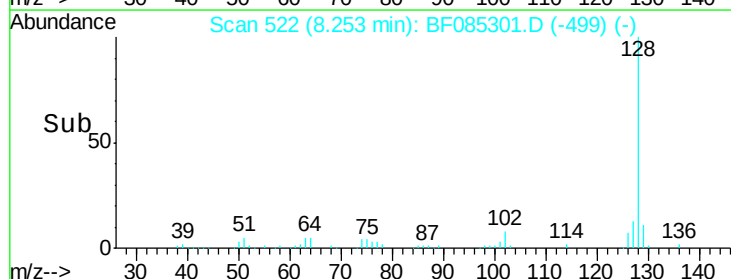
127 12.7 11.2 16.8

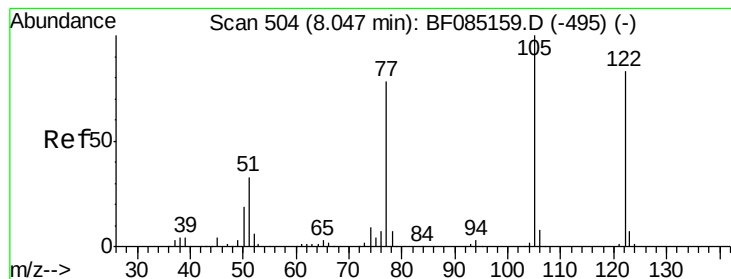


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 6.75 ng

RT: 7.96 min Scan# 496

Delta R.T. -0.09 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-28-022516

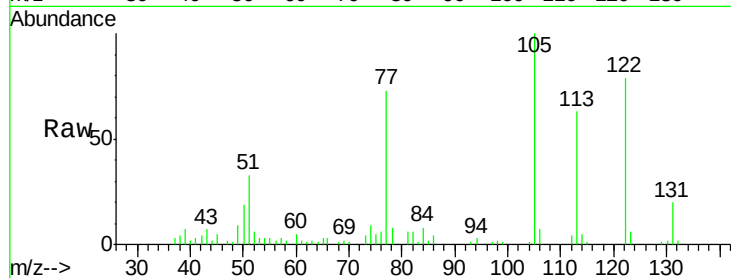
Tgt Ion:122 Resp: 53702

Ion Ratio Lower Upper

122 100

105 126.6 101.3 141.3

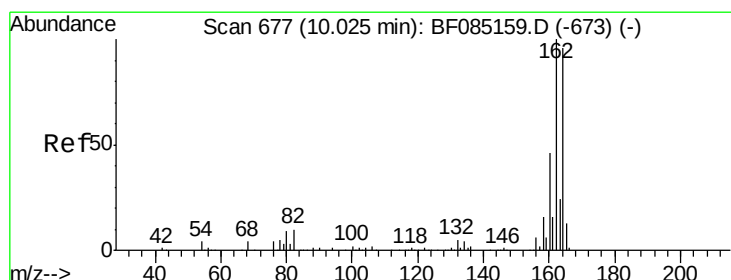
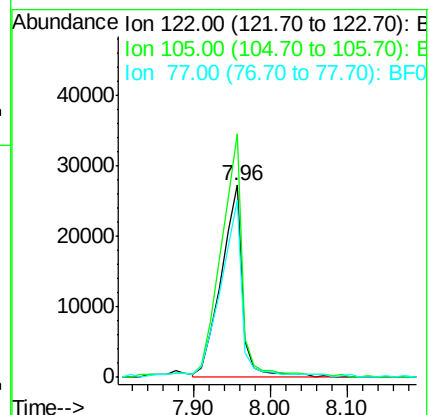
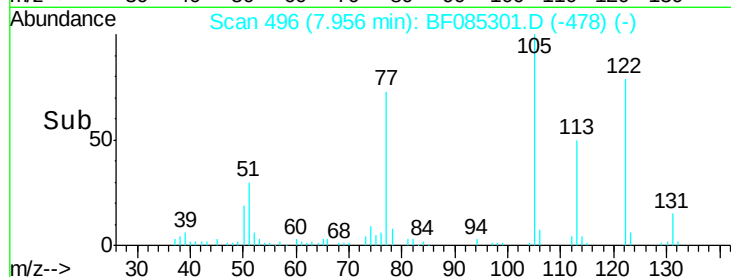
77 92.0 74.7 114.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.99 min Scan# 674

Delta R.T. -0.03 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

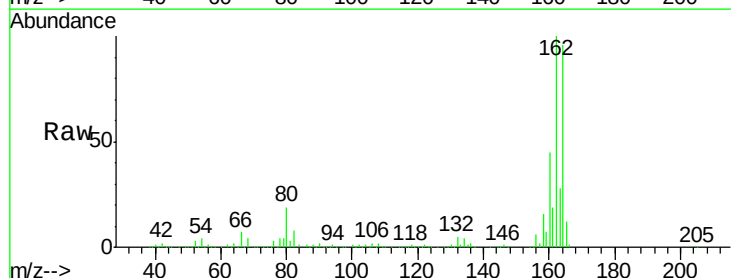
Tgt Ion:164 Resp: 351573

Ion Ratio Lower Upper

164 100

162 104.0 83.3 124.9

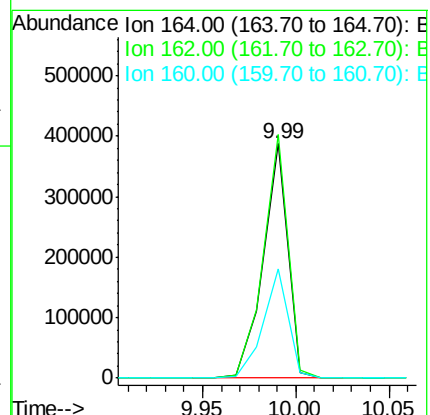
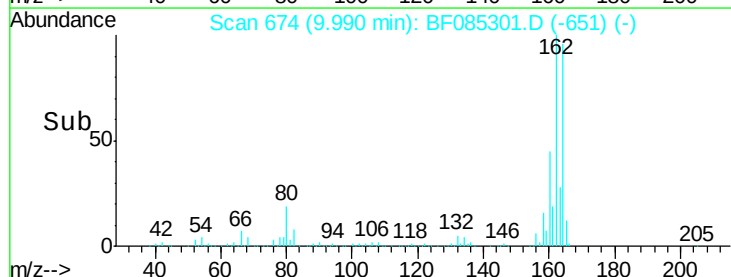
160 46.6 37.9 56.9

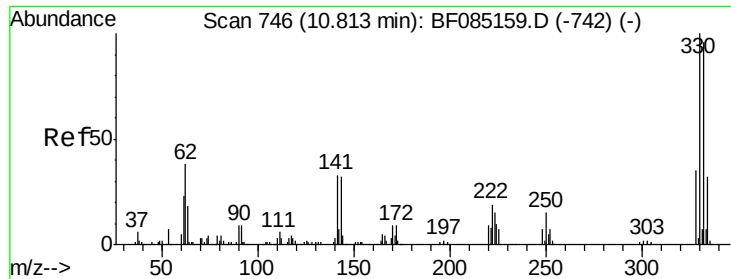


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

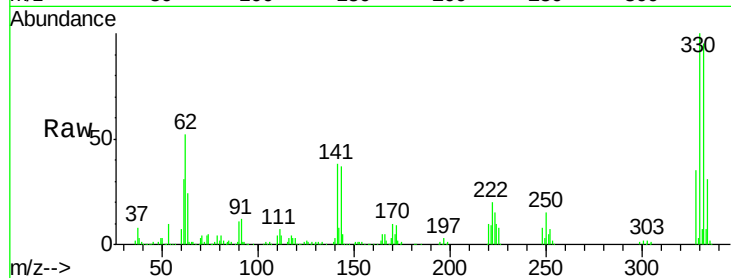




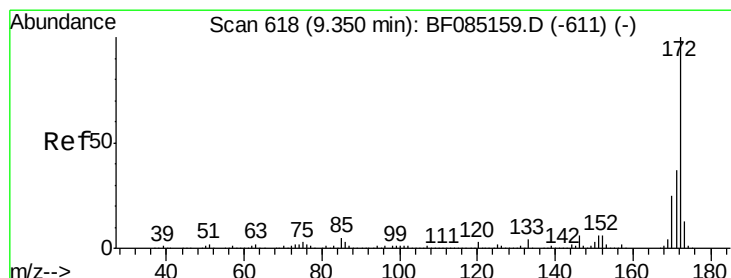
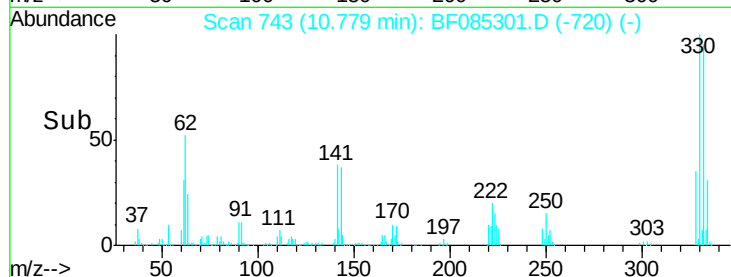
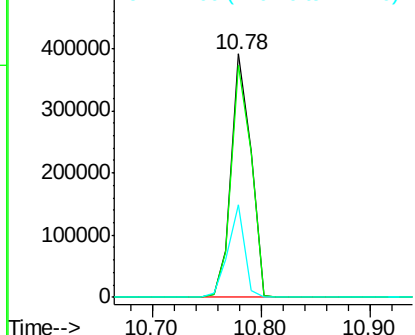
#41  
 2,4,6-Tribromophenol  
 Concen: 162.04 ng  
 RT: 10.78 min Scan# 743  
 Delta R.T. -0.03 min  
 Lab File: BF085301.D  
 Acq: 9 Mar 2016 16:15

Instrument :  
 BNA\_F  
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 HSR-WC-28-022516

Tgt Ion:330 Resp: 487452  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 77.1 115.7  
 141 32.2 35.0 52.6#

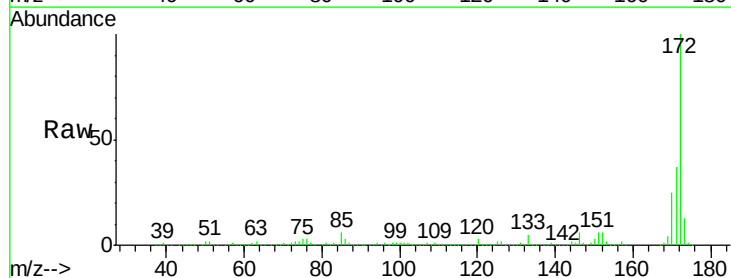


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

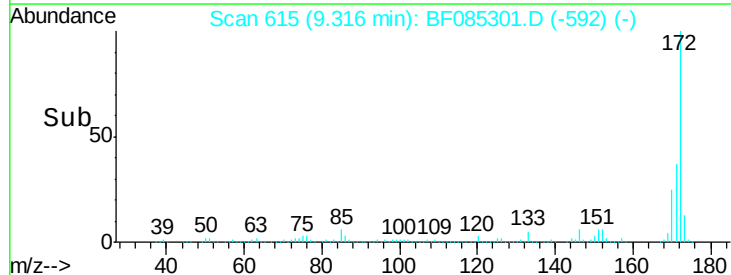
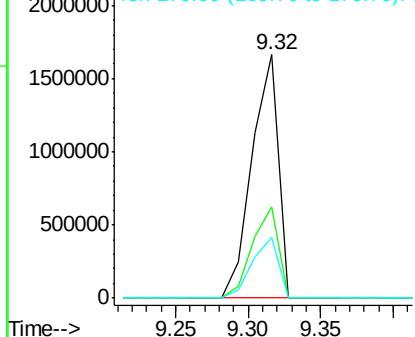


#44  
 2-Fluorobiphenyl  
 Concen: 90.61 ng  
 RT: 9.32 min Scan# 615  
 Delta R.T. -0.03 min  
 Lab File: BF085301.D  
 Acq: 9 Mar 2016 16:15

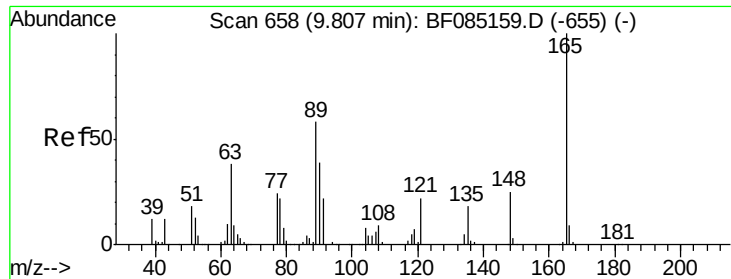
Tgt Ion:172 Resp: 2094573  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 29.3 43.9  
 170 24.9 20.0 30.0



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



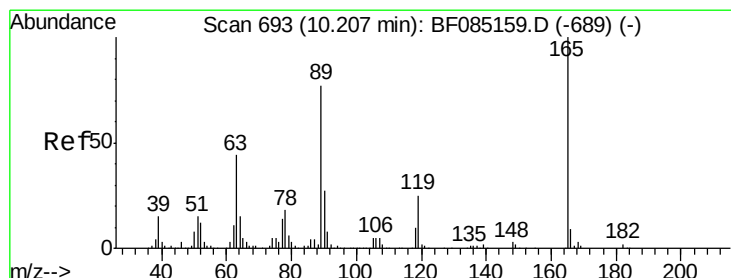
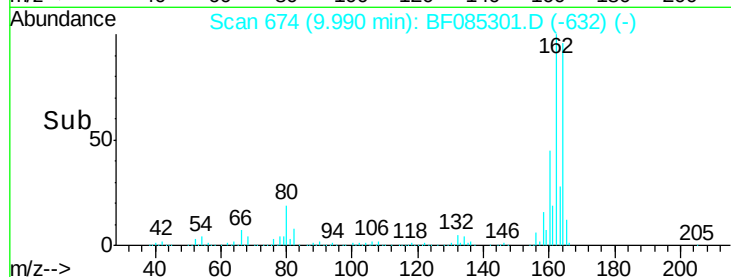
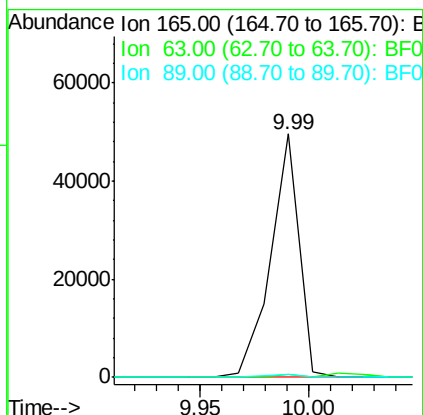
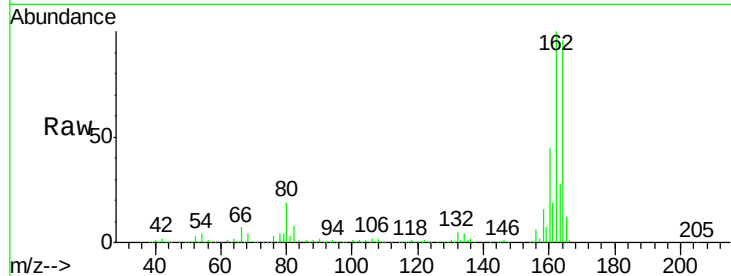




#50  
 2,6-Dinitrotoluene  
 Concen: 7.90 ng  
 RT: 9.99 min Scan# 674  
 Delta R.T. 0.18 min  
 Lab File: BF085301.D  
 Acq: 9 Mar 2016 16:15

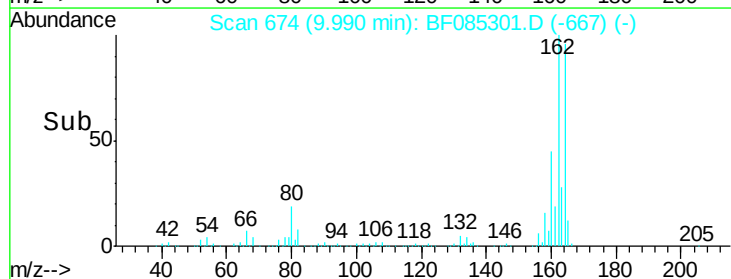
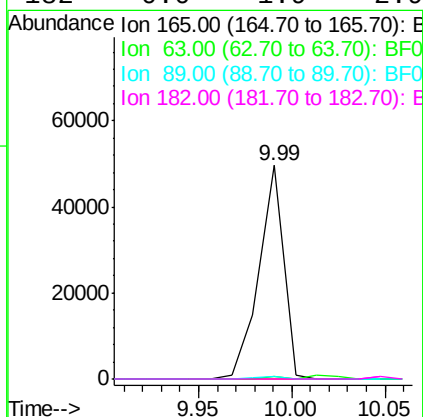
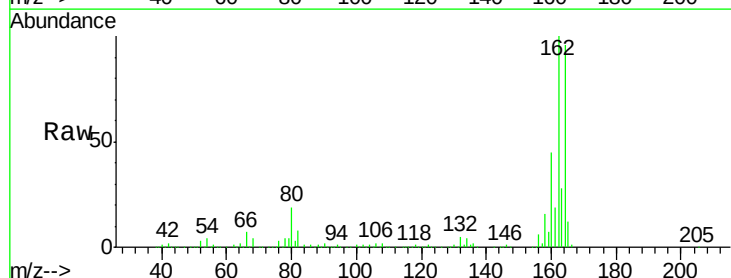
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-28-022516

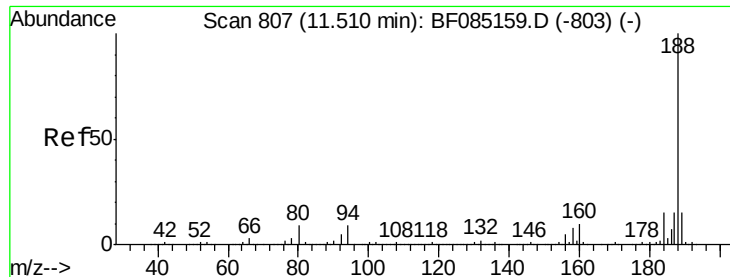
Tgt Ion:165 Resp: 45590  
 Ion Ratio Lower Upper  
 165 100  
 63 1.1 41.8 62.8#  
 89 1.5 46.7 70.1#



#56  
 2,4-Dinitrotoluene  
 Concen: 6.17 ng  
 RT: 9.99 min Scan# 674  
 Delta R.T. -0.22 min  
 Lab File: BF085301.D  
 Acq: 9 Mar 2016 16:15

Tgt Ion:165 Resp: 45593  
 Ion Ratio Lower Upper  
 165 100  
 63 1.1 35.4 53.0#  
 89 1.5 61.9 92.9#  
 182 0.0 1.9 2.9#

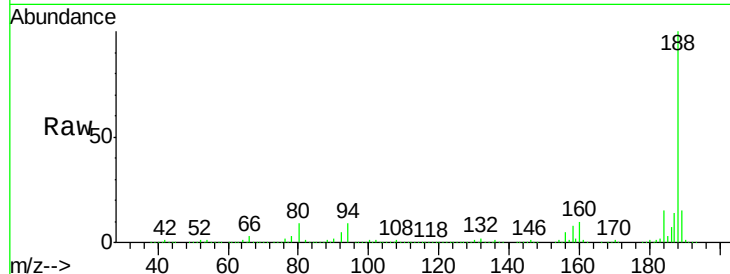




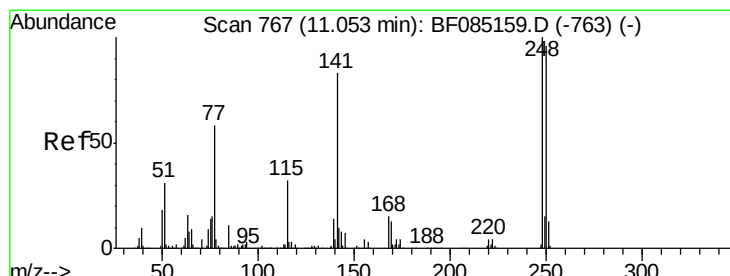
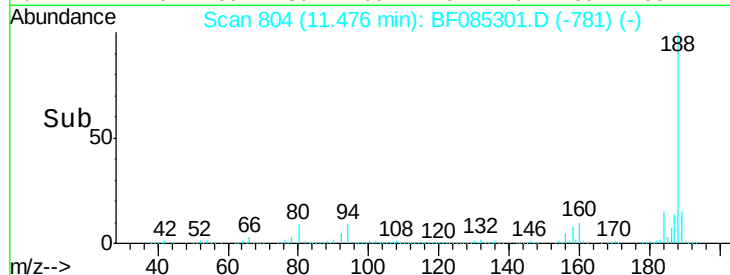
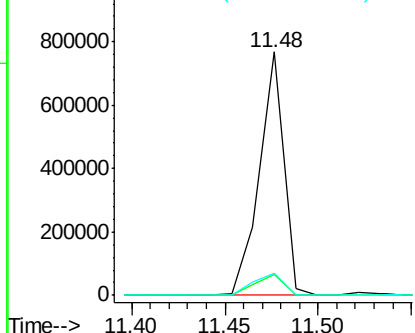
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.48 min Scan# 804  
Delta R.T. -0.03 min  
Lab File: BF085301.D  
Acq: 9 Mar 2016 16:15

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-28-022516

Tgt Ion:188 Resp: 694064  
Ion Ratio Lower Upper  
188 100  
94 8.8 7.0 10.6  
80 9.4 7.4 11.0

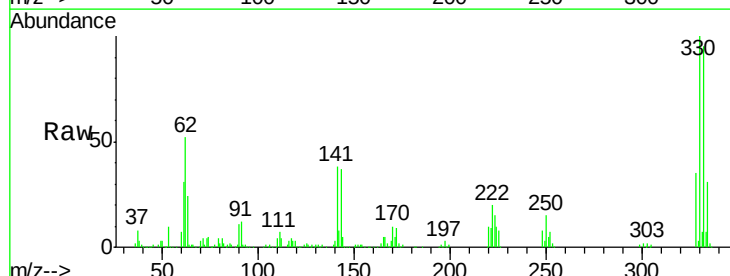


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

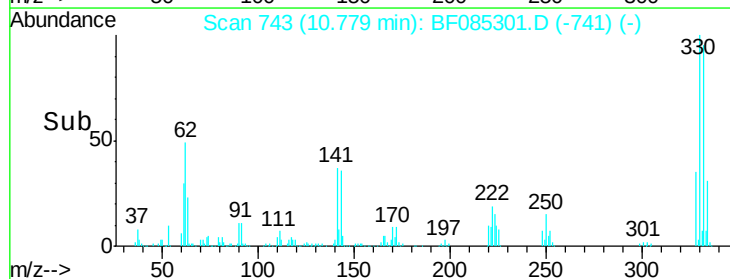
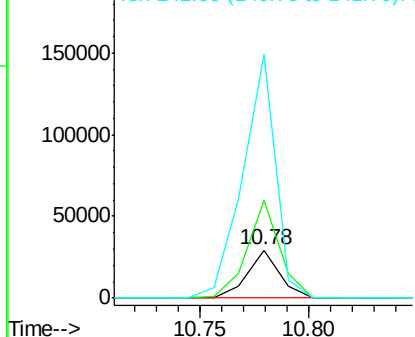


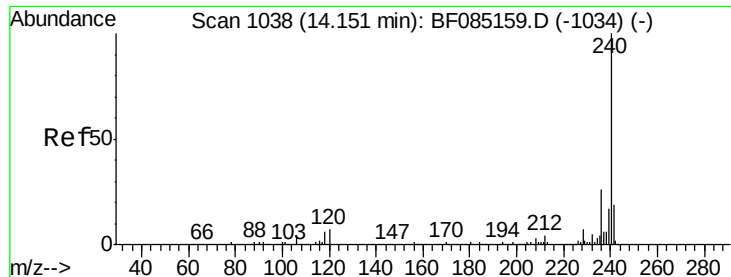
#66  
4-Bromophenyl-phenylether  
Concen: 4.58 ng  
RT: 10.78 min Scan# 743  
Delta R.T. -0.27 min  
Lab File: BF085301.D  
Acq: 9 Mar 2016 16:15

Tgt Ion:248 Resp: 30881  
Ion Ratio Lower Upper  
248 100  
250 201.6 77.1 115.7#  
141 504.0 66.2 99.2#



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.12 min Scan# 1035

Delta R.T. -0.03 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-28-022516

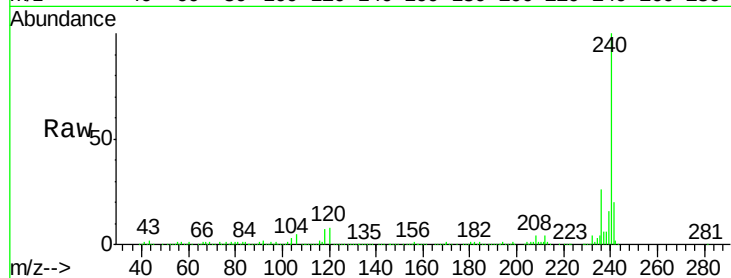
Tgt Ion:240 Resp: 466552

Ion Ratio Lower Upper

240 100

120 7.7 5.3 7.9

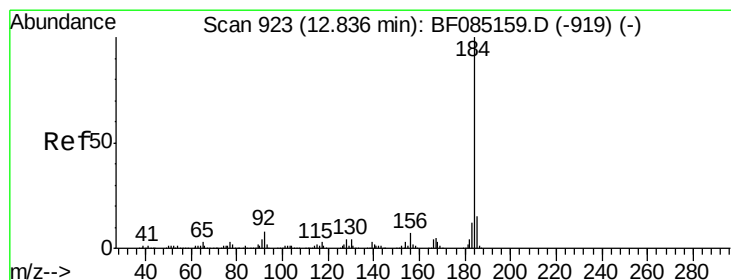
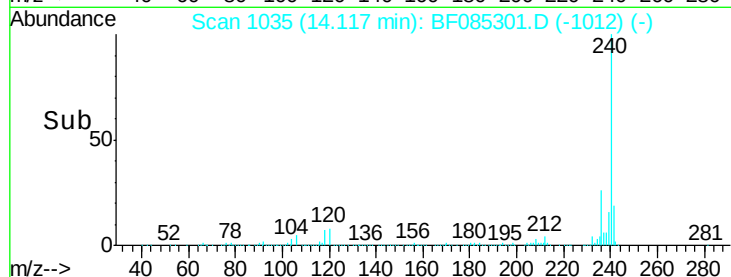
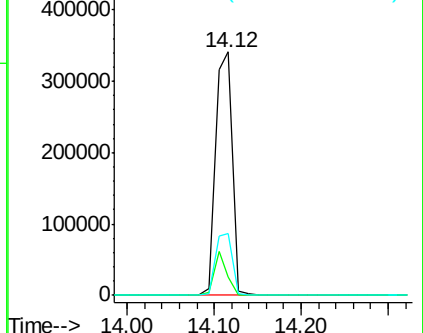
236 25.7 20.7 31.1



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



#76

Benzidine

Concen: 4.26 ng

RT: 12.80 min Scan# 920

Delta R.T. -0.03 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

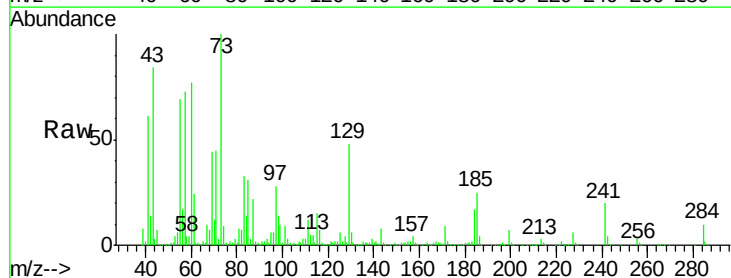
Tgt Ion:184 Resp: 59203

Ion Ratio Lower Upper

184 100

185 148.1 12.4 18.6#

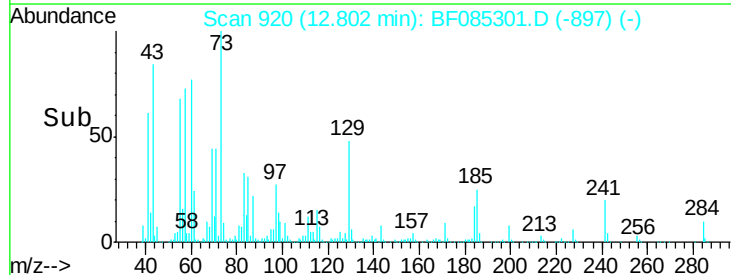
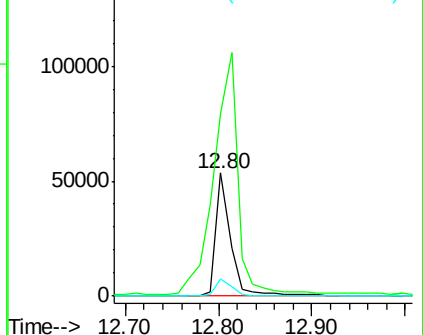
183 14.2 9.4 14.2#

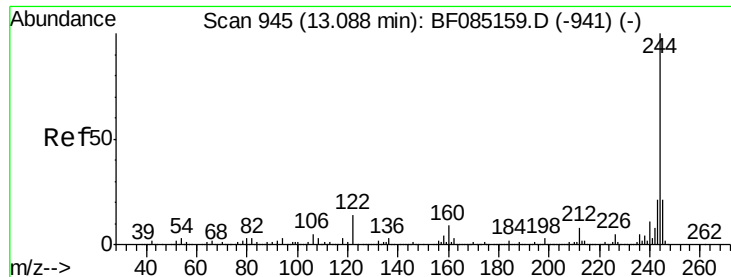


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 94.96 ng

RT: 13.07 min Scan# 943

Delta R.T. -0.02 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-28-022516

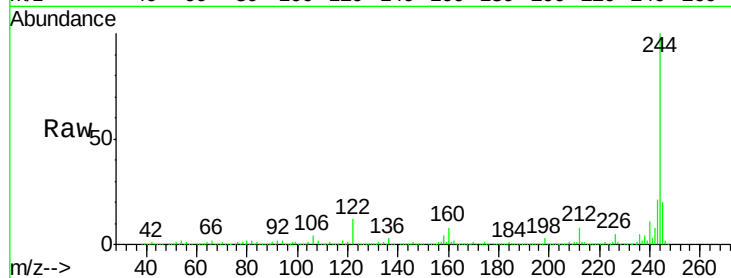
Tgt Ion:244 Resp: 1908490

Ion Ratio Lower Upper

244 100

212 7.5 6.4 9.6

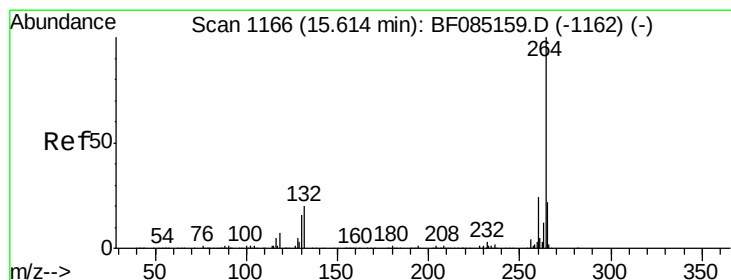
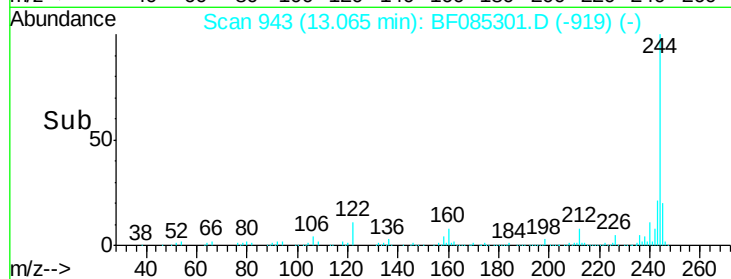
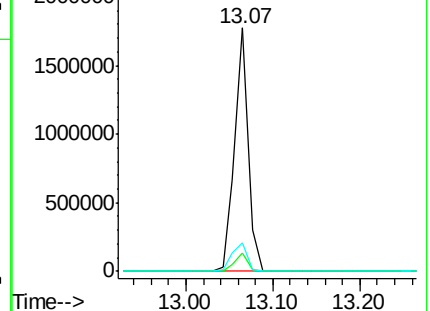
122 11.5 11.4 17.2



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: 15.57 min Scan# 1162

Delta R.T. -0.05 min

Lab File: BF085301.D

Acq: 9 Mar 2016 16:15

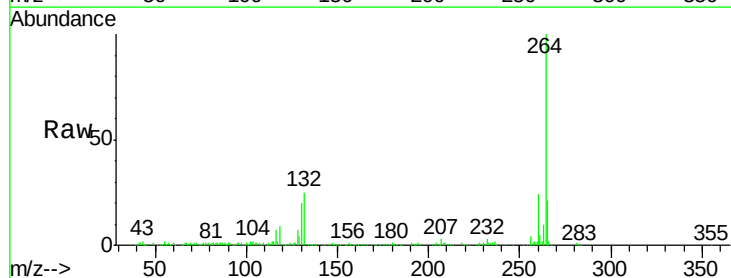
Tgt Ion:264 Resp: 301452

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

265 21.4 17.3 25.9



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

