

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083116\  
 Data File : BF089951.D  
 Acq On : 31 Aug 2016 15:36  
 Operator : UM/SJ  
 Sample : H4620-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 31 17:54:38 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF083116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 31 11:55:18 2016  
 Response via : Initial Calibration

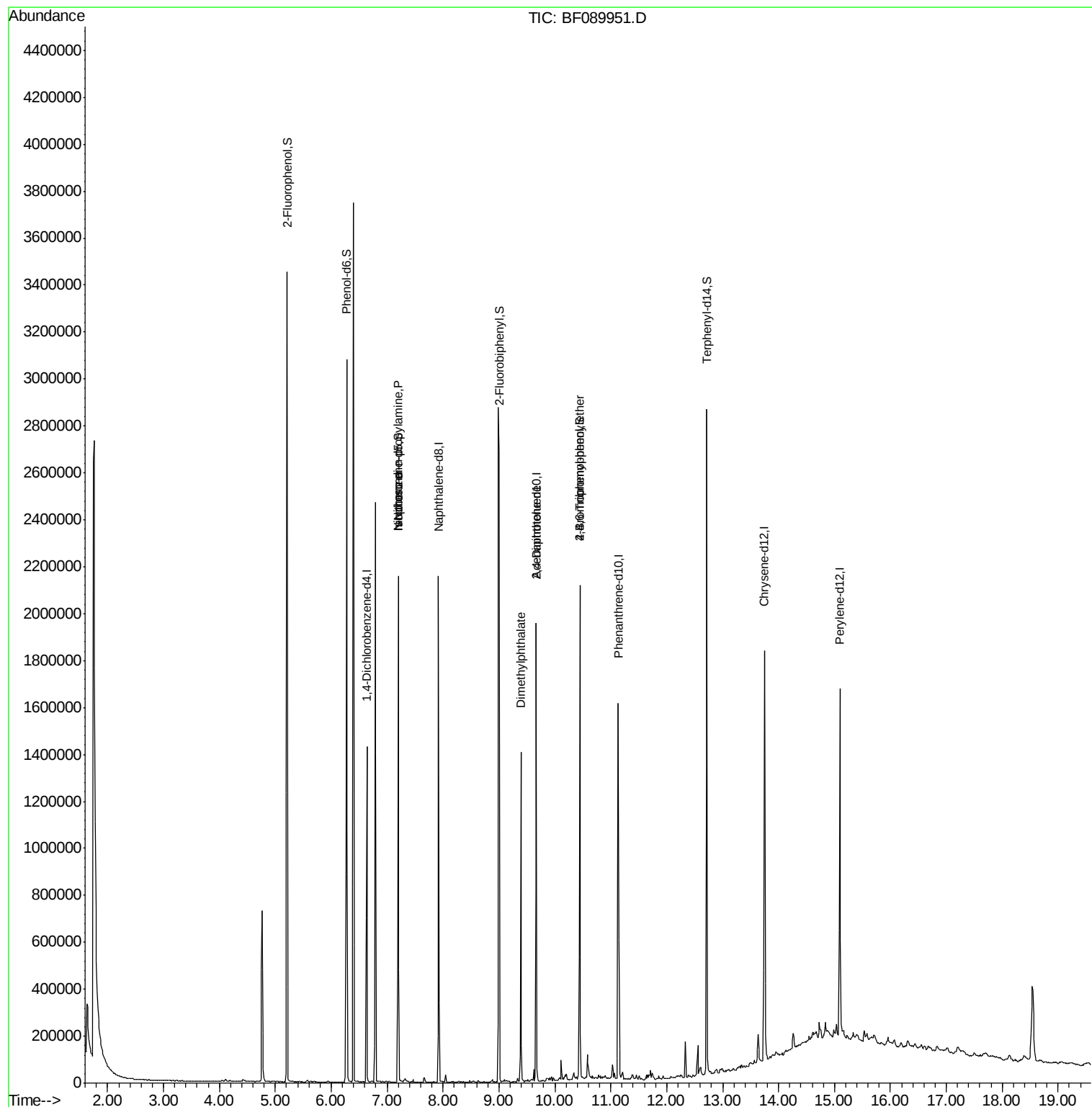
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.64  | 152  | 251558   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.92  | 136  | 899503   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.67  | 164  | 437315   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.13 | 188  | 646534   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 13.75 | 240  | 593482   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 15.10 | 264  | 617127   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.21  | 112  | 1013010  | 64.46 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.27  | 99   | 1244084  | 65.15 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.20  | 82   | 696405   | 44.90 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.44 | 330  | 231279   | 53.61 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 1419414  | 53.28 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.72 | 244  | 1008908  | 41.99 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.20  | 70   | 93651    | 7.53  | ng    | # 83     |
| 25) Isophorone                 | 7.20  | 82   | 595639   | 18.89 | ng    | # 65     |
| 49) Dimethylphthalate          | 9.39  | 163  | 506991   | 16.04 | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.67  | 165  | 56797    | 6.37  | ng    | # 29     |
| 66) 4-Bromophenyl-phenylether  | 10.44 | 248  | 16541    | 2.54  | ng    | # 1      |

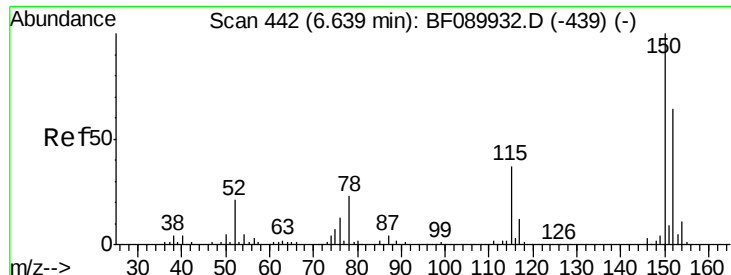
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083116\  
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Misc :  
ALS Vial : 16 Sample Multiplier: 1

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BNA\_F  
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Quant Time: Aug 31 17:54:38 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF083116.M  
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QLast Update : Wed Aug 31 11:55:18 2016  
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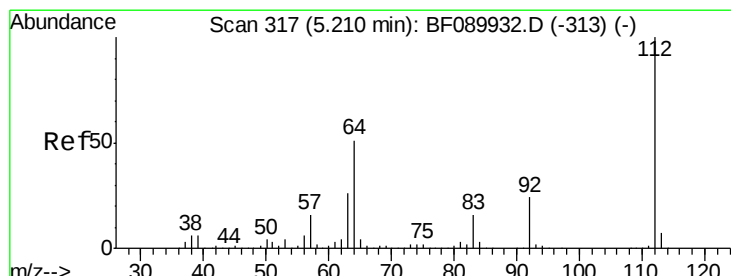
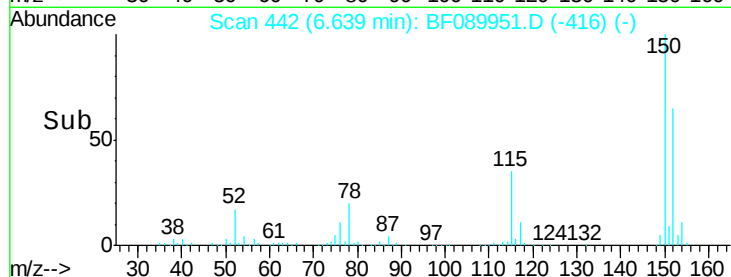
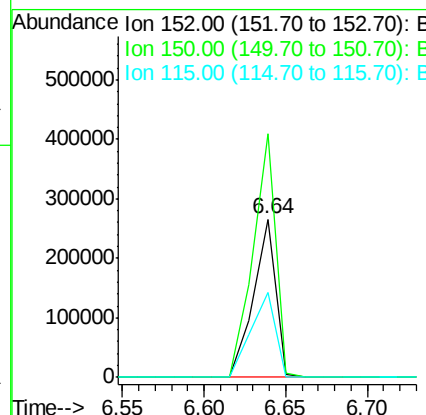
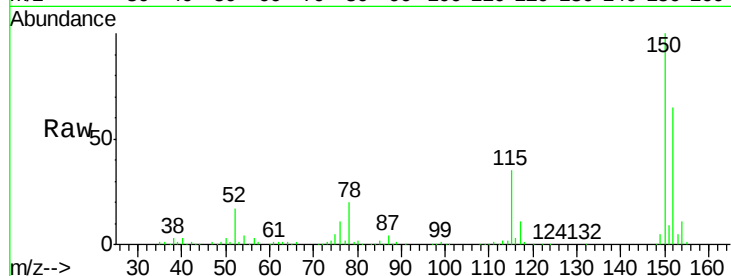




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.64 min Scan# 442  
 Delta R.T. 0.00 min  
 Lab File: BF089951.D  
 Acq: 31 Aug 2016 15:36

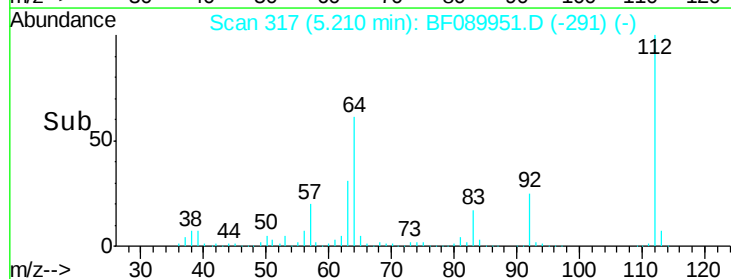
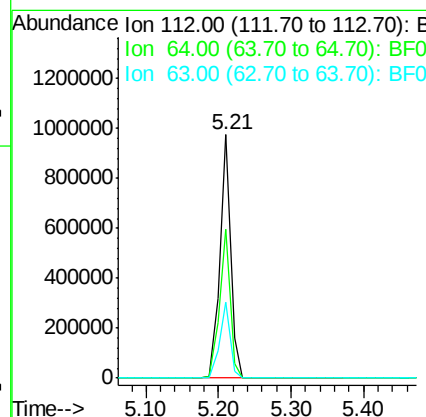
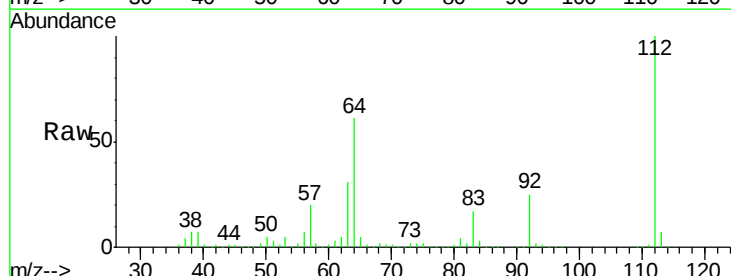
Instrument :  
 BNA\_F  
 ClientSampled :

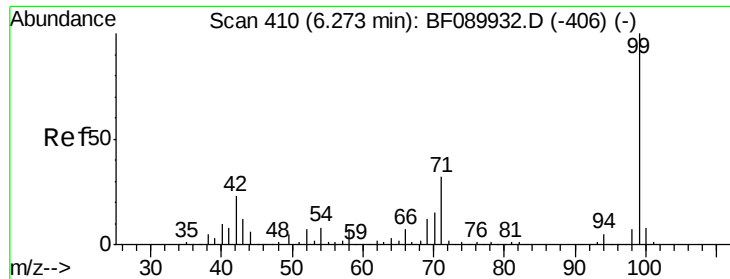
Tot Ion:152 Resp: 251558  
 Ion Ratio Lower Upper  
 152 100  
 150 154.1 127.4 191.2  
 115 54.0 46.3 69.5



#5  
 2-Fluorophenol  
 Concen: 64.46 ng  
 RT: 5.21 min Scan# 317  
 Delta R.T. 0.00 min  
 Lab File: BF089951.D  
 Acq: 31 Aug 2016 15:36

Tgt Ion:112 Resp: 1013010  
 Ion Ratio Lower Upper  
 112 100  
 64 61.1 41.1 61.7  
 63 31.4 21.2 31.8





#7

Phenol-d6

Concen: 65.15 ng

RT: 6.27 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

Instrument :

BNA\_F

ClientSampled :

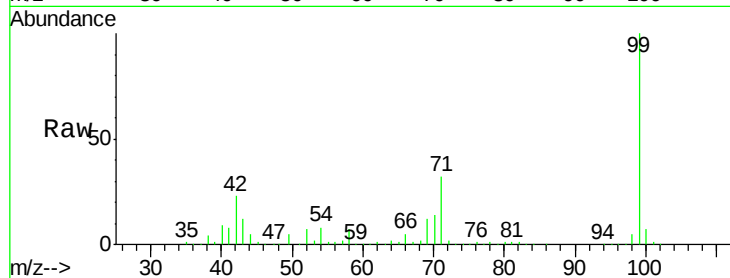
Tot Ion: 99 Resp: 1244084

Ion Ratio Lower Upper

99 100

42 23.0 18.6 27.8

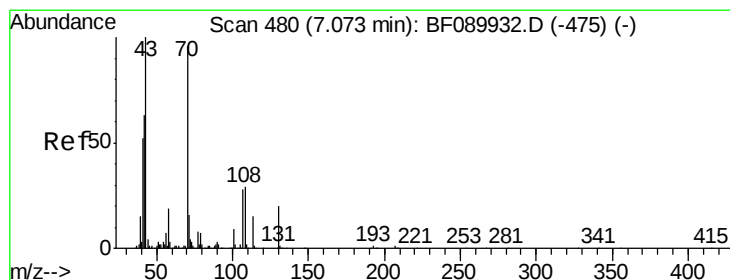
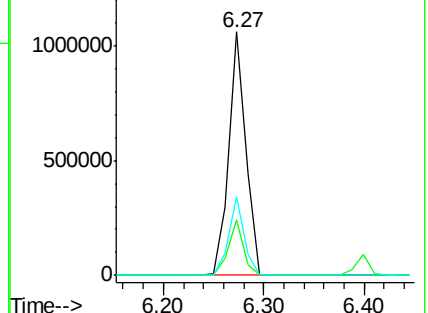
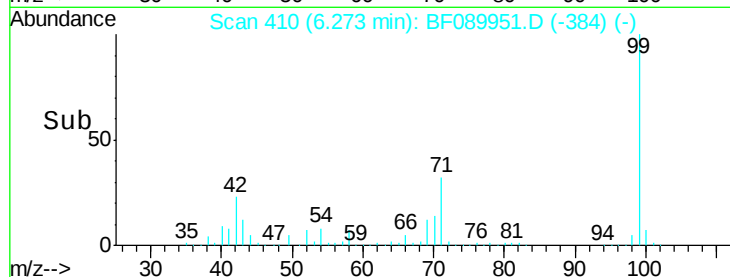
71 32.2 25.8 38.6



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: 7.53 ng

RT: 7.20 min Scan# 491

Delta R.T. 0.13 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

Tgt Ion: 70 Resp: 93651

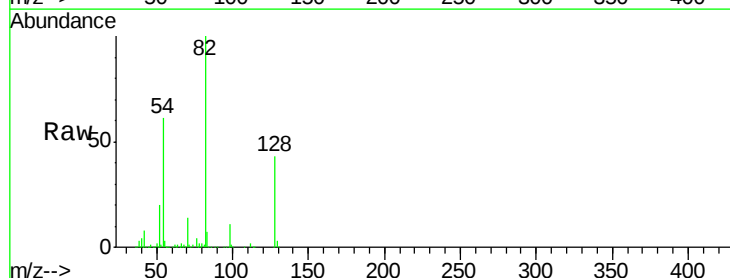
Ion Ratio Lower Upper

70 100

42 58.7 52.1 78.1

101 0.0 7.4 11.2#

130 1.8 17.0 25.4#

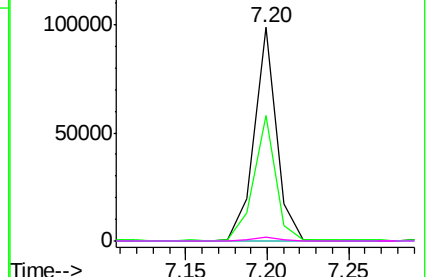
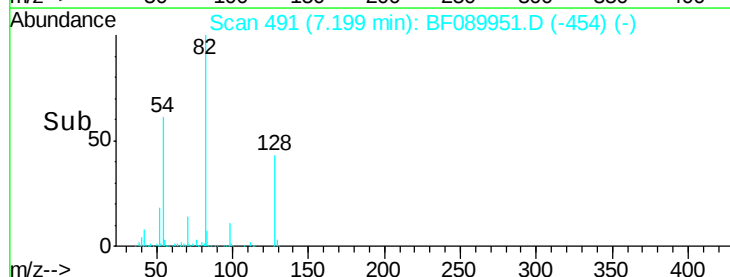


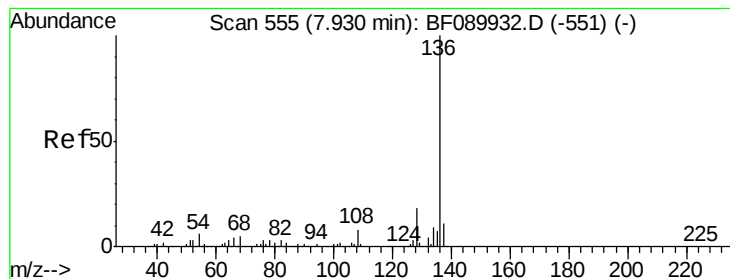
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. -0.01 min

Lab File: BF089951.D

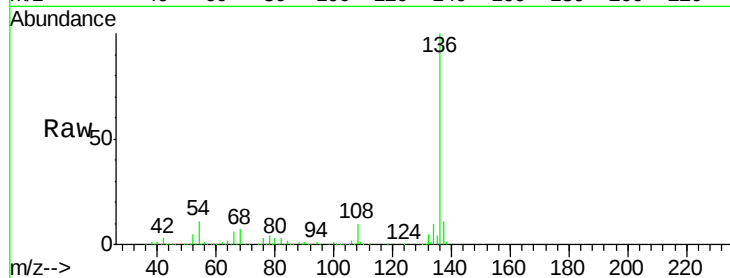
Acq: 31 Aug 2016 15:36

Instrument :

BNA\_F

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 899503   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 8.3 12.5 |
| 54          | 10.6  | 4.8 7.2# |
| 68          | 7.2   | 3.7 5.5# |

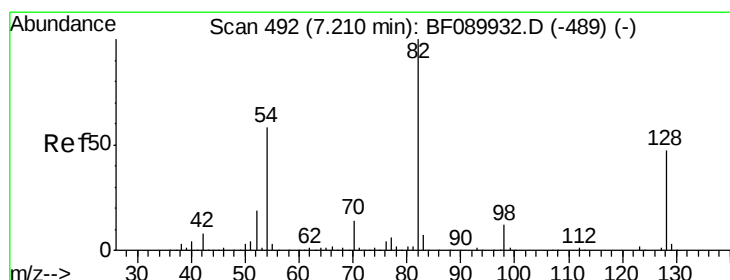
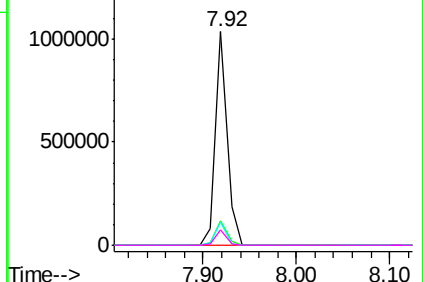
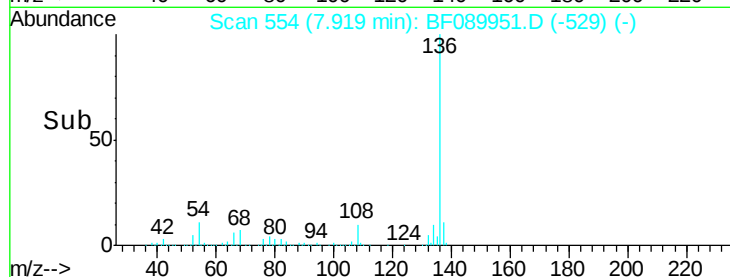


Abundance Ion 136.00 (135.70 to 136.70): E

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: 44.90 ng

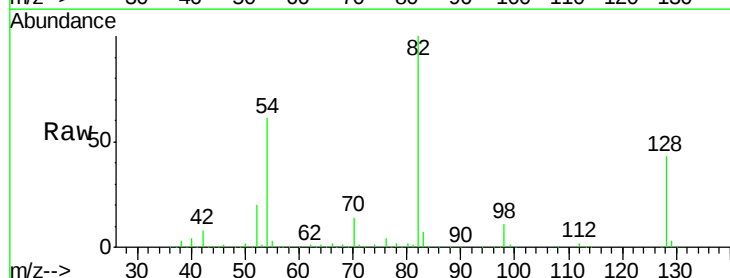
RT: 7.20 min Scan# 491

Delta R.T. -0.01 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

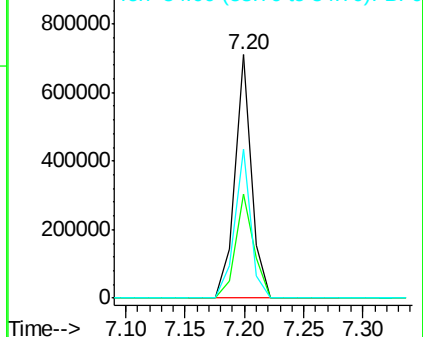
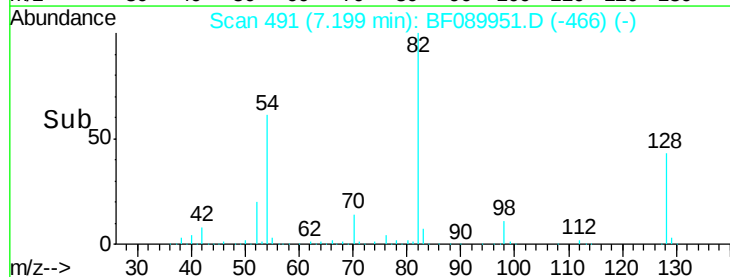
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 696405    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.6  | 37.8 56.8 |
| 54          | 61.1  | 46.9 70.3 |

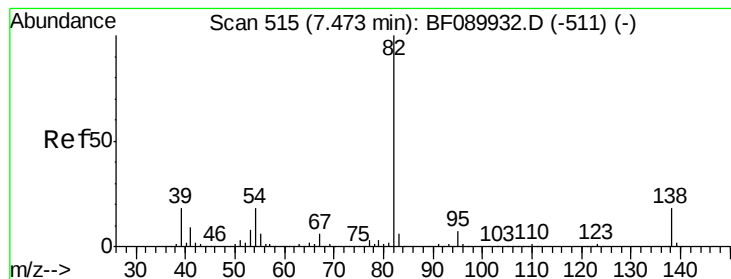


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 18.89 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.27 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

Instrument :

BNA\_F

ClientSampled :

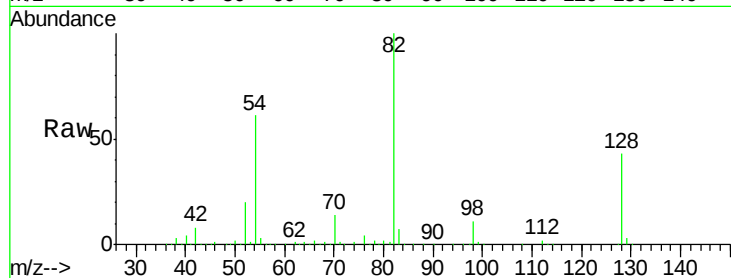
Tot Ion: 82 Resp: 595639

Ion Ratio Lower Upper

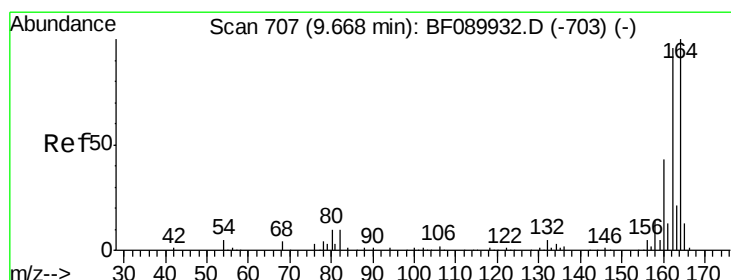
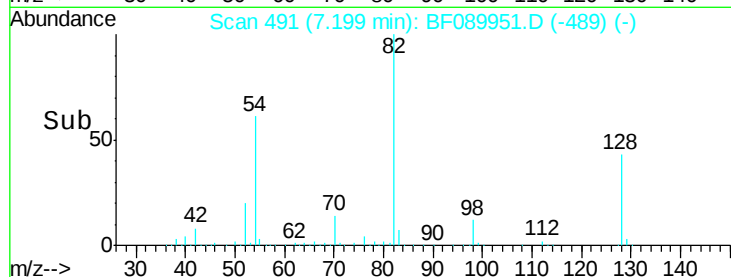
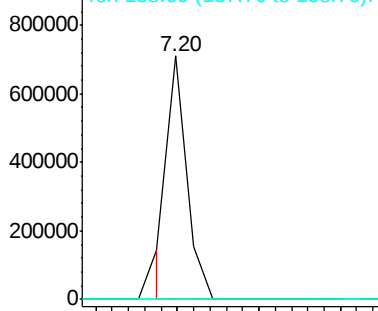
82 100

95 0.0 5.5 8.3#

138 0.0 14.4 21.6#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.67 min Scan# 707

Delta R.T. 0.00 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

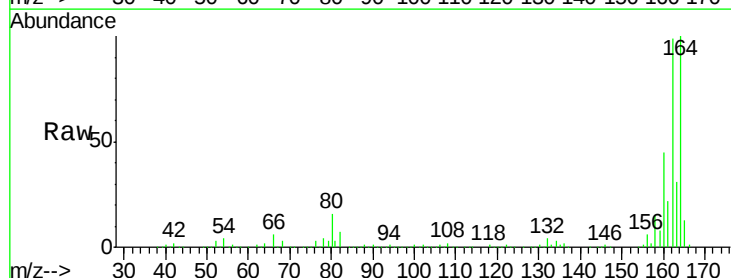
Tgt Ion: 164 Resp: 437315

Ion Ratio Lower Upper

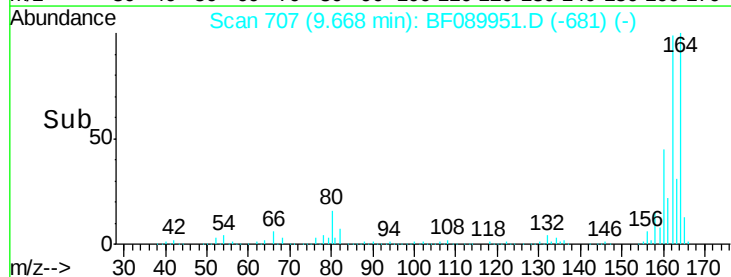
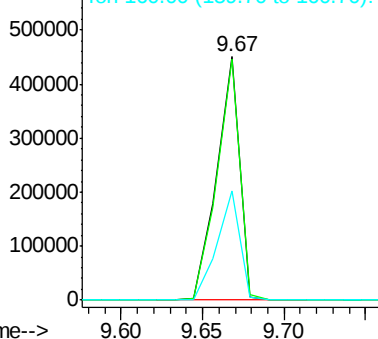
164 100

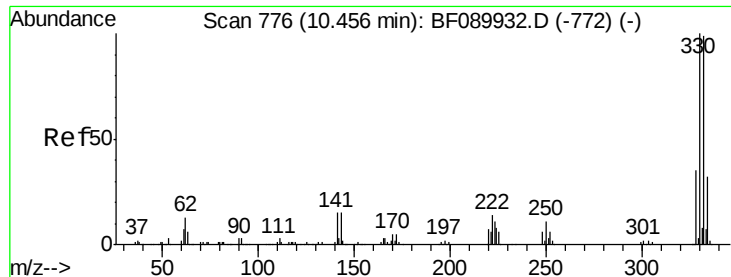
162 98.8 77.1 115.7

160 44.8 35.3 52.9



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

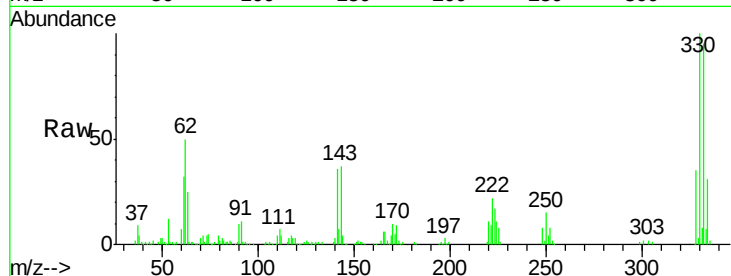




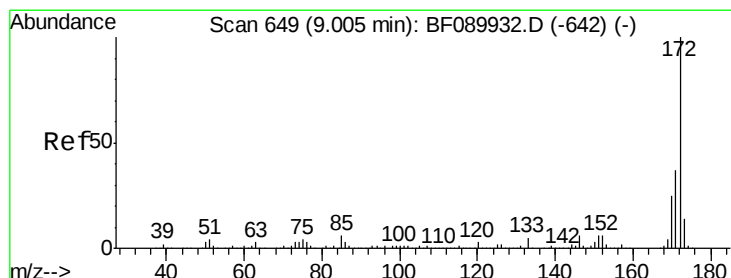
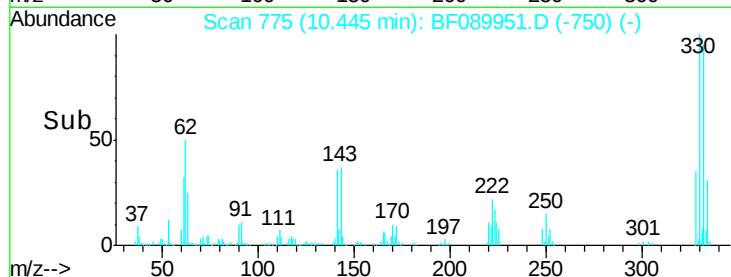
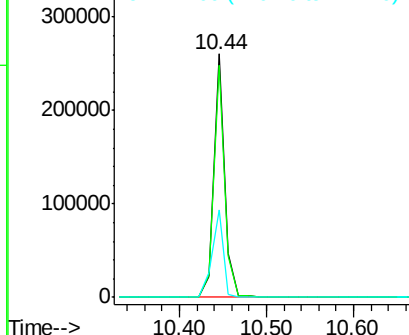
#41  
 2,4,6-Tribromophenol  
 Concen: 53.61 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.01 min  
 Lab File: BF089951.D  
 Acq: 31 Aug 2016 15:36

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 231279  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 78.6 117.8  
 141 37.1 23.3 34.9#

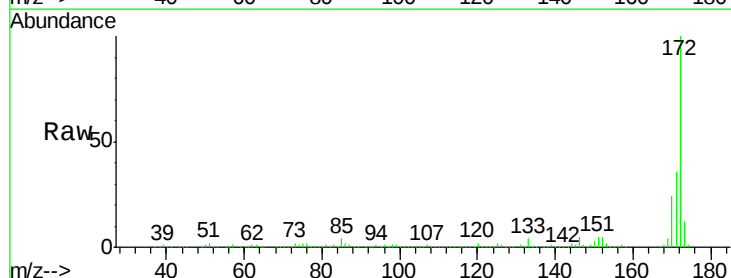


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

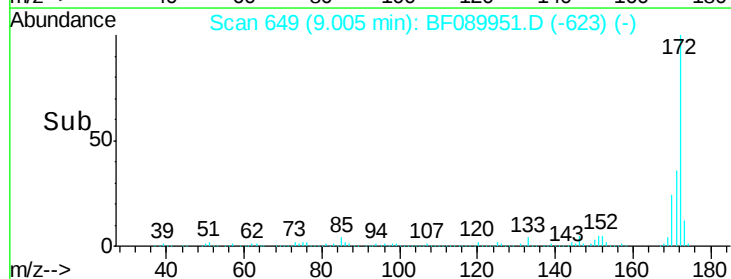
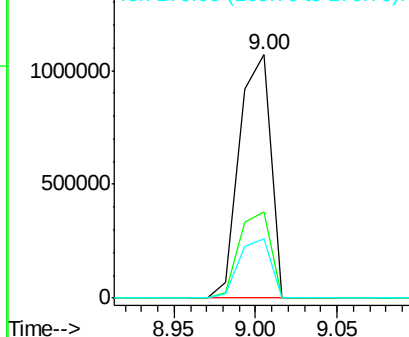


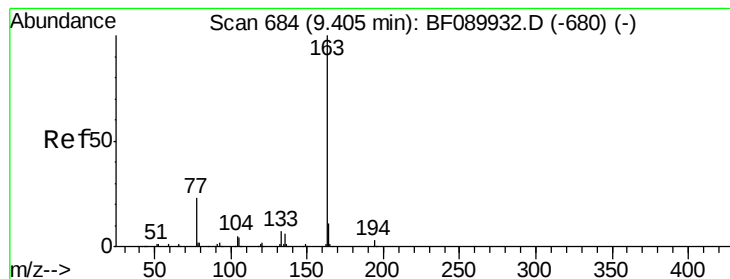
#44  
 2-Fluorobiphenyl  
 Concen: 53.28 ng  
 RT: 9.00 min Scan# 649  
 Delta R.T. 0.00 min  
 Lab File: BF089951.D  
 Acq: 31 Aug 2016 15:36

Tgt Ion:172 Resp: 1419414  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 29.4 44.2  
 170 24.4 20.1 30.1



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





#49

Dimethylphthalate

Concen: 16.04 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

Instrument :

BNA\_F

ClientSampleId :

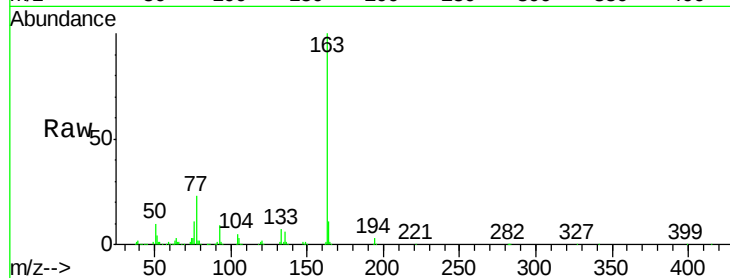
Tot Ion:163 Resp: 506991

Ion Ratio Lower Upper

163 100

194 3.3 2.7 4.1

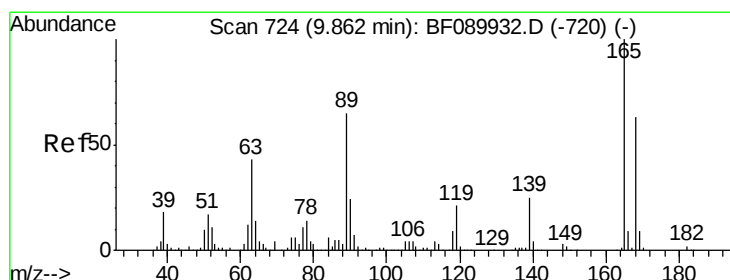
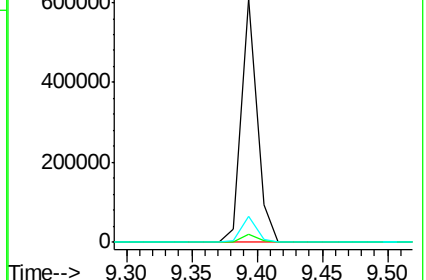
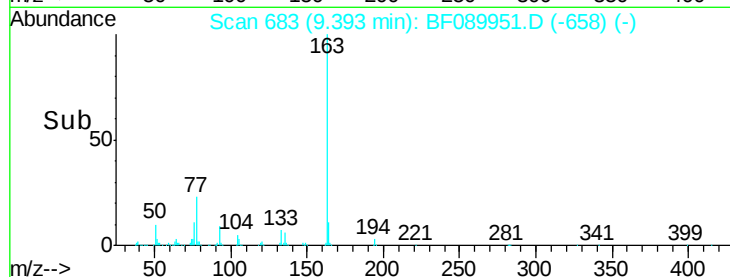
164 10.9 9.0 13.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.37 ng

RT: 9.67 min Scan# 707

Delta R.T. -0.19 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

Tgt Ion:165 Resp: 56797

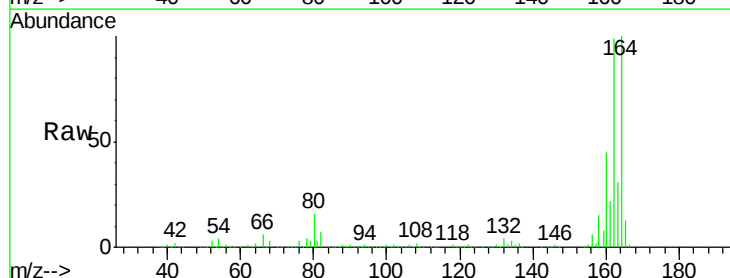
Ion Ratio Lower Upper

165 100

63 1.2 32.5 48.7#

89 1.4 48.3 72.5#

182 0.0 1.7 2.5#

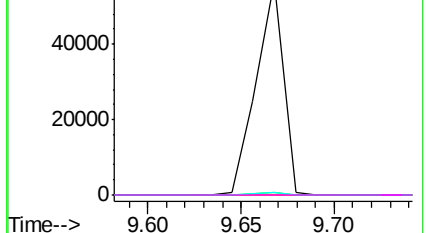
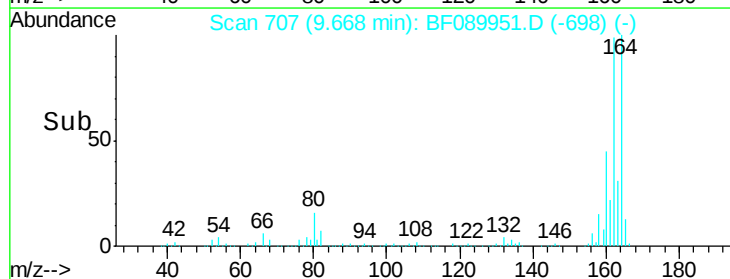


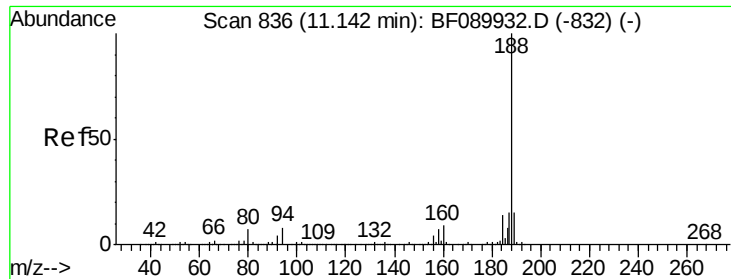
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

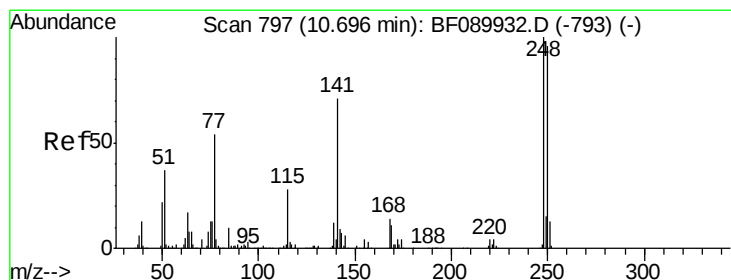
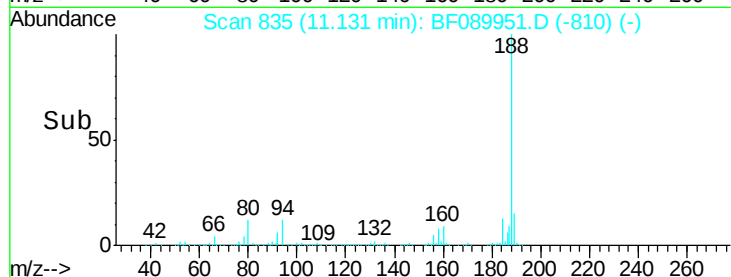
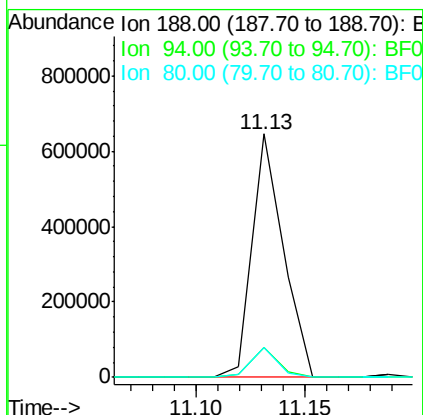
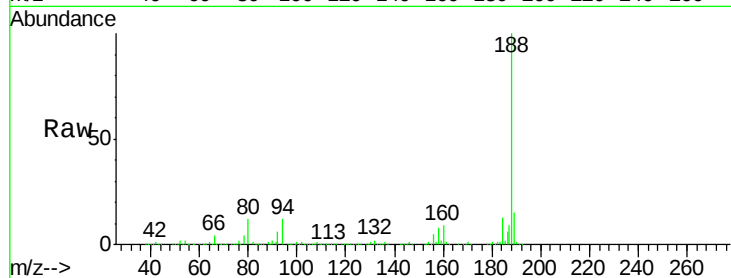




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BF089951.D  
Acq: 31 Aug 2016 15:36

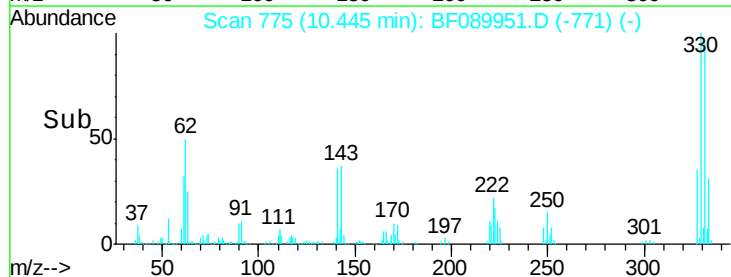
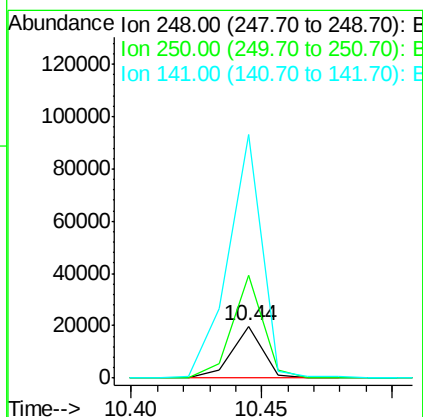
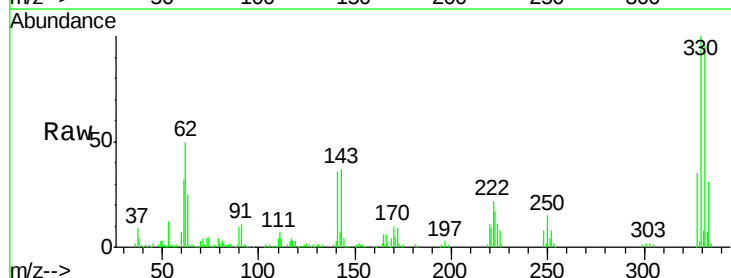
Instrument :  
BNA\_F  
ClientSampleId :

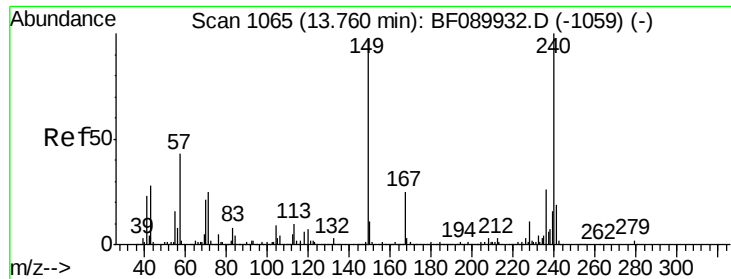
Tot Ion:188 Resp: 646534  
Ion Ratio Lower Upper  
188 100  
94 12.1 5.9 8.9#  
80 12.3 5.8 8.8#



#66  
4-Bromophenyl-phenylether  
Concen: 2.54 ng  
RT: 10.44 min Scan# 775  
Delta R.T. -0.25 min  
Lab File: BF089951.D  
Acq: 31 Aug 2016 15:36

Tgt Ion:248 Resp: 16541  
Ion Ratio Lower Upper  
248 100  
250 199.6 77.3 115.9#  
141 469.8 55.8 83.8#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.01 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

Instrument :

BNA\_F

ClientSampleId :

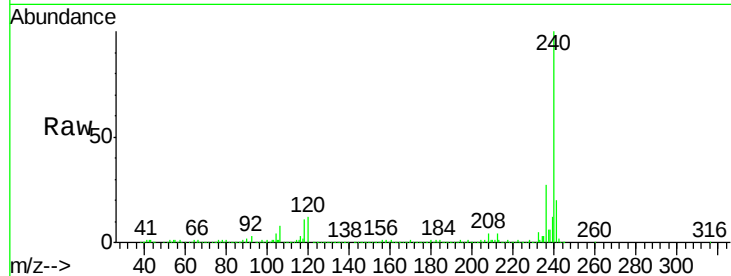
Tot Ion:240 Resp: 593482

Ion Ratio Lower Upper

240 100

120 12.4 5.7 8.5#

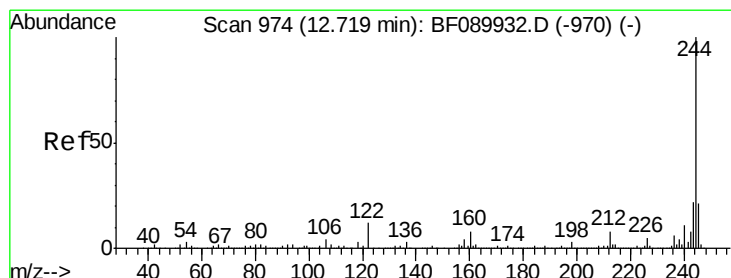
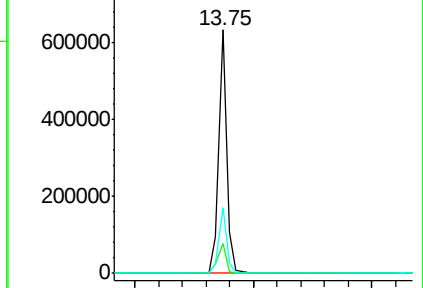
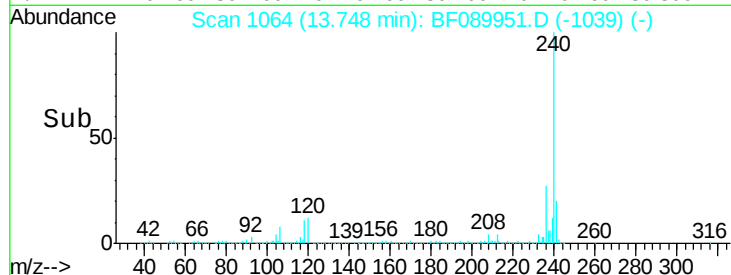
236 27.2 21.3 31.9



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: 41.99 ng

RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

Lab File: BF089951.D

Acq: 31 Aug 2016 15:36

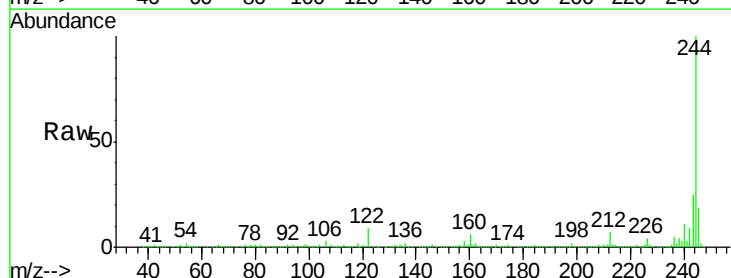
Tgt Ion:244 Resp: 1008908

Ion Ratio Lower Upper

244 100

212 7.0 6.1 9.1

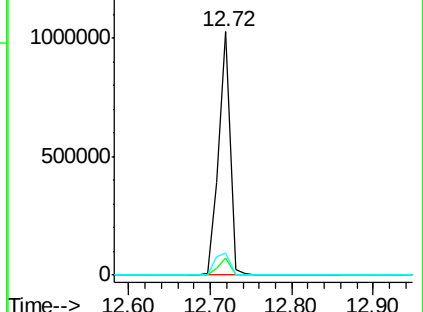
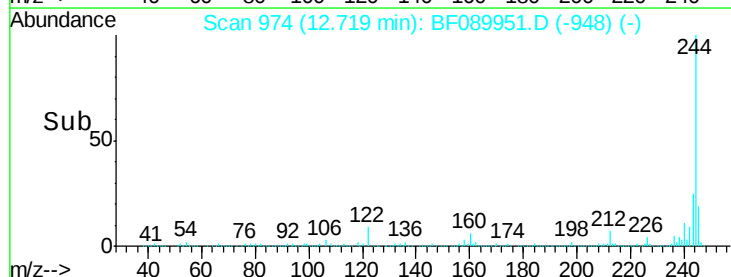
122 8.9 9.6 14.4#

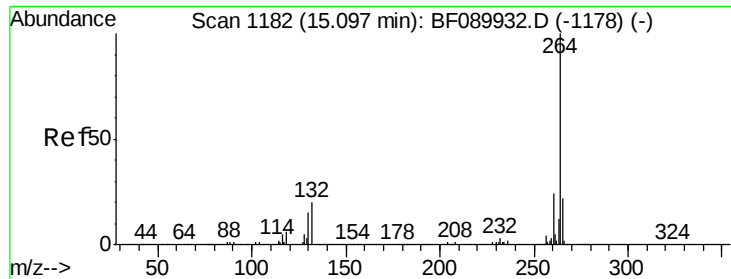


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

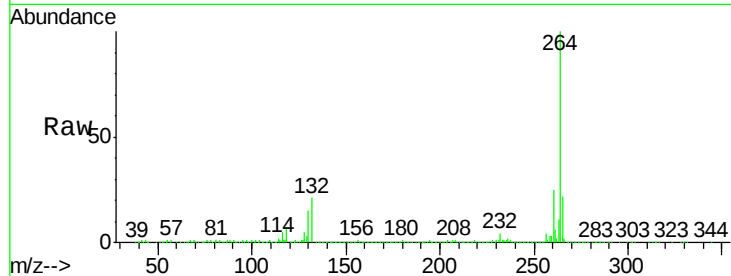




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.10 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: BF089951.D  
Acq: 31 Aug 2016 15:36

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.4  | 29.0  |
| 265     | 22.0  | 17.4  | 26.2  |



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

