

Data Path : Z:\HPCHEM1\BNA F\Data\BF031117\  
 Data File : BF093590.D  
 Acq On : 12 Mar 2017 4:54  
 Operator : SJ/MA  
 Sample : I2198-03  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

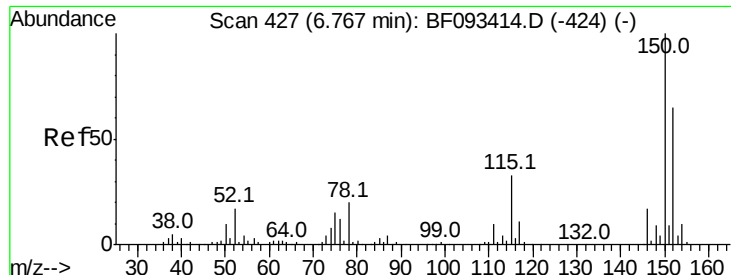
Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-24

Quant Time: Mar 13 18:03:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 202036   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 732545   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 318043   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.24 | 188  | 497211   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.88 | 240  | 381292   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.28 | 264  | 320076   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 763588   | 62.90     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.38  | 99   | 684984   | 44.75     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 1030928  | 78.08     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 271226   | 130.89    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 1933868  | 113.10    | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.83 | 244  | 1246093  | 84.97     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.38  | 77   | 1748     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 135487   | 12.87     | ng    | # 82     |
| 25) Isophorone                 | 7.29  | 82   | 1031635  | 38.75     | ng    | # 65     |
| 49) Dimethylphthalate          | 9.49  | 163  | 54644    | 2.59      | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 39616    | 8.56      | ng    | # 31     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 39618    | 6.97      | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 20472    | 3.89      | ng    | # 1      |

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



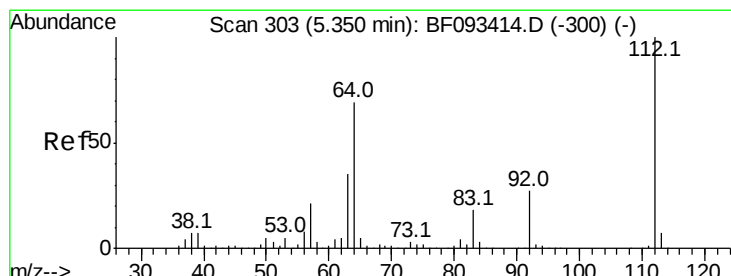
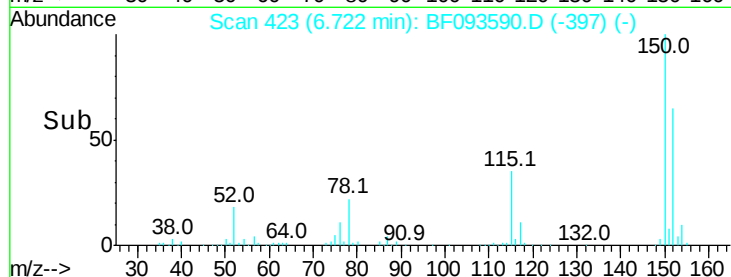
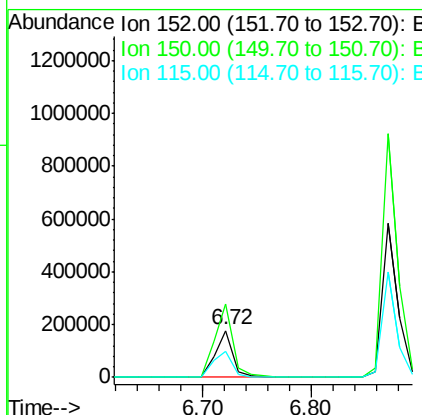
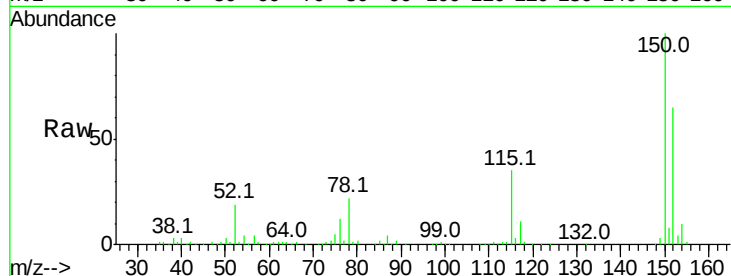


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.72 min Scan# 423  
Delta R.T. -0.00 min  
Lab File: BF093590.D  
Acq: 12 Mar 2017 4:54

Instrument :  
BNA\_F  
ClientSampleId :  
W-24

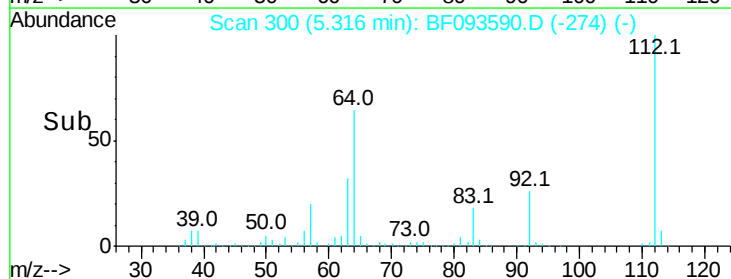
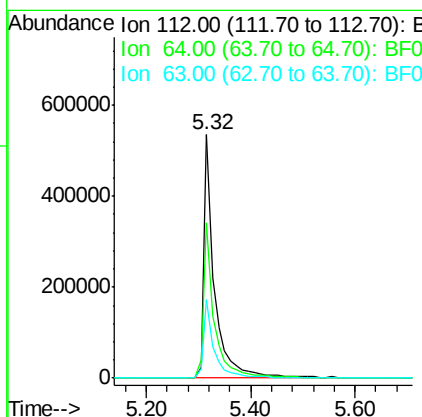
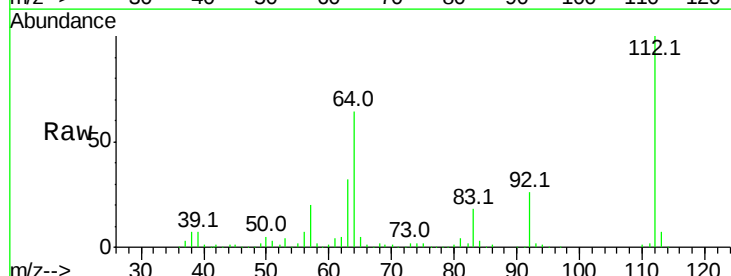
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.0 | 124.9 | 187.3 |
| 115     | 54.5  | 46.0  | 69.0  |

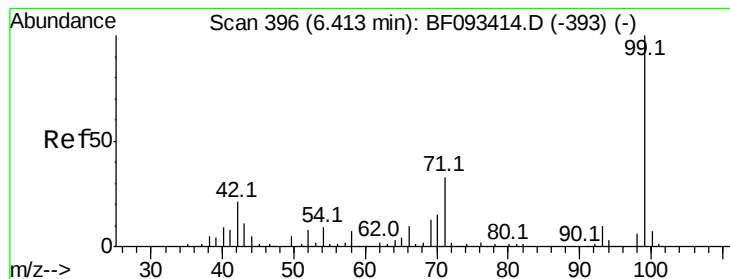


#5

2-Fluorophenol  
Concen: 62.90 ng  
RT: 5.32 min Scan# 300  
Delta R.T. -0.00 min  
Lab File: BF093590.D  
Acq: 12 Mar 2017 4:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.9  | 46.1  | 69.1  |
| 63      | 32.2  | 23.8  | 35.6  |





#7

Phenol-d6

Concen: 44.75 ng

RT: 6.38 min Scan# 393

Delta R.T. -0.00 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

Instrument :

BNA\_F

ClientSampleId :

W-24

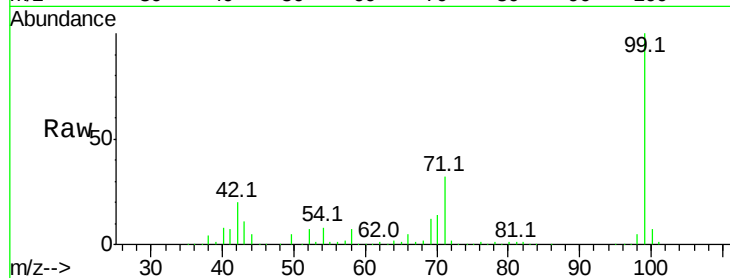
Tot Ion: 99 Resp: 684984

Ion Ratio Lower Upper

99 100

42 19.9 15.6 23.4

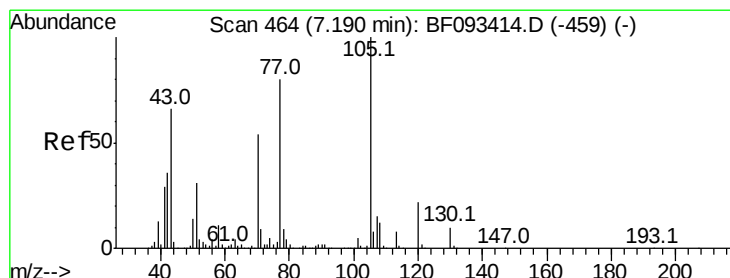
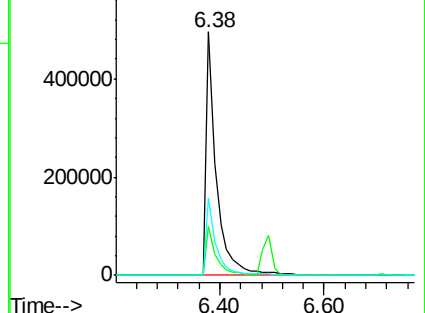
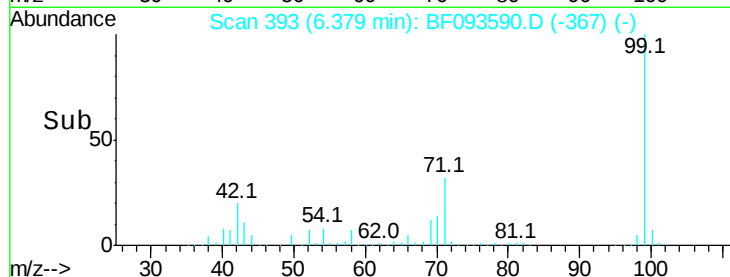
71 31.8 27.5 41.3



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: 12.87 ng

RT: 7.29 min Scan# 473

Delta R.T. 0.15 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

Tgt Ion: 70 Resp: 135487

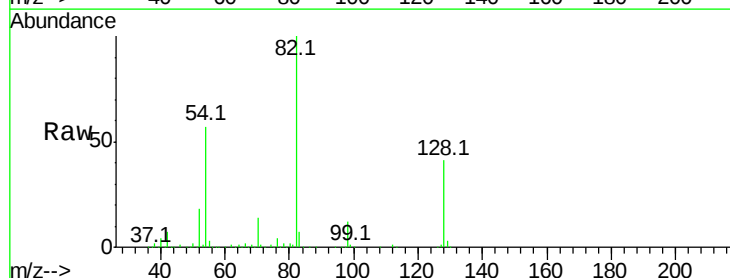
Ion Ratio Lower Upper

70 100

42 52.7 49.4 74.0

101 0.0 7.4 11.2#

130 1.8 14.2 21.4#

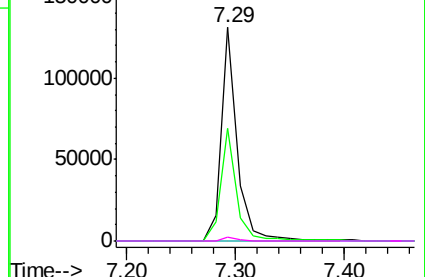
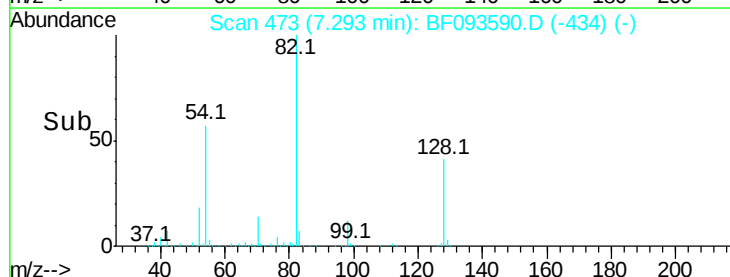


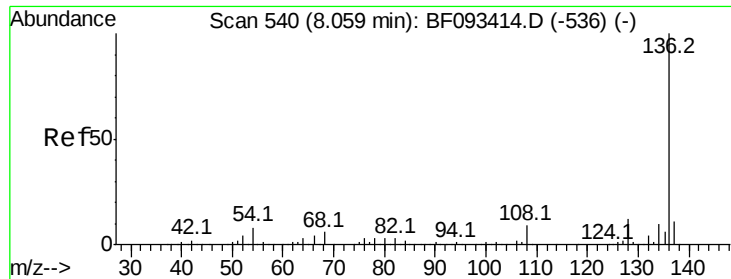
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

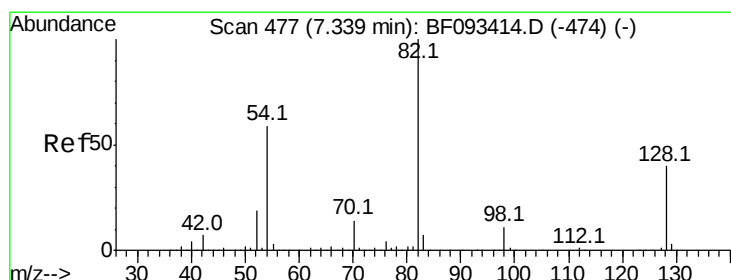
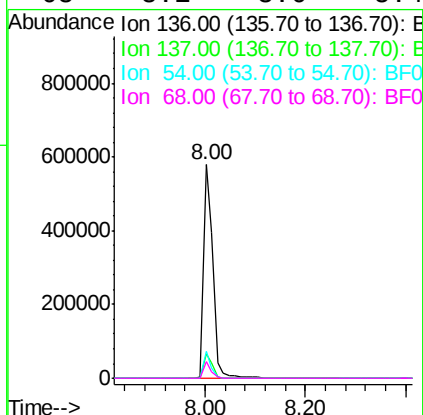
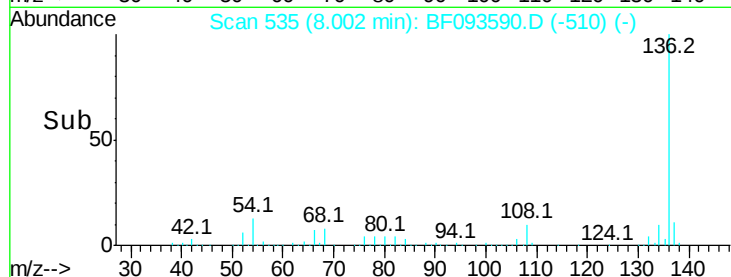
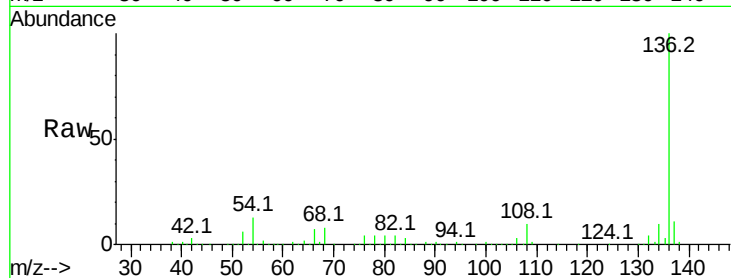




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093590.D  
Acq: 12 Mar 2017 4:54

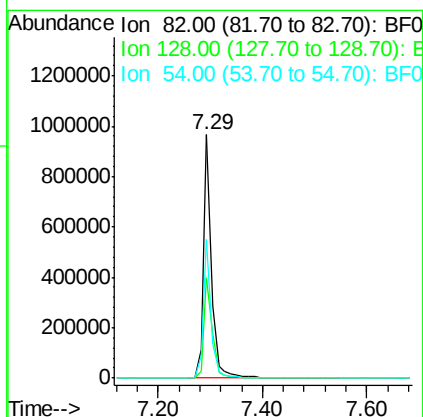
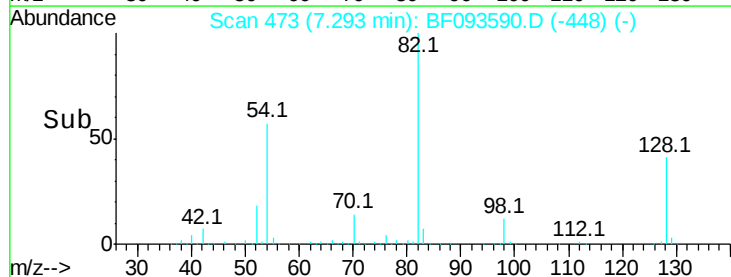
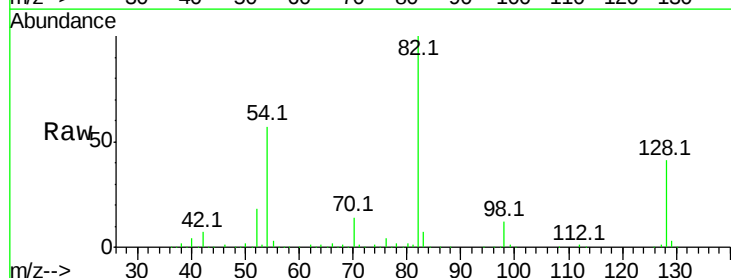
Instrument :  
BNA\_F  
ClientSampleId :  
W-24

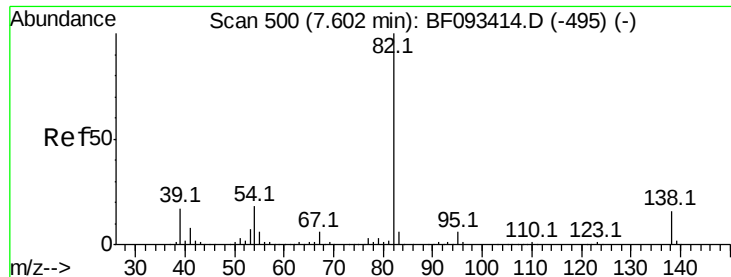
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 732545 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.4   | 12.6   |
| 54       | 12.7  | 4.5   | 6.7#   |
| 68       | 8.1   | 3.6   | 5.4#   |



#23  
Nitrobenzene-d5  
Concen: 78.08 ng  
RT: 7.29 min Scan# 473  
Delta R.T. -0.01 min  
Lab File: BF093590.D  
Acq: 12 Mar 2017 4:54

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1030928 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 41.3  | 34.6  | 52.0    |
| 54       | 56.7  | 39.5  | 59.3    |





#25

Isophorone

Concen: 38.75 ng

RT: 7.29 min Scan# 473

Delta R.T. -0.26 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

Instrument :

BNA\_F

ClientSampleId :

W-24

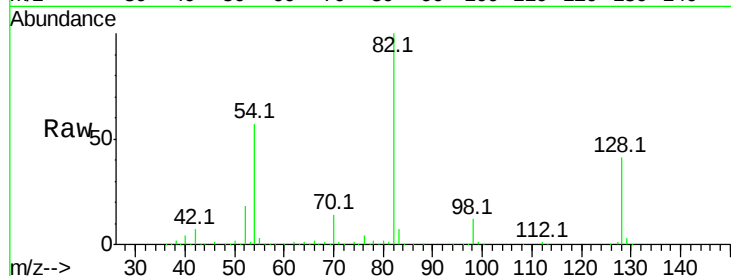
Tot Ion: 82 Resp: 1031635

Ion Ratio Lower Upper

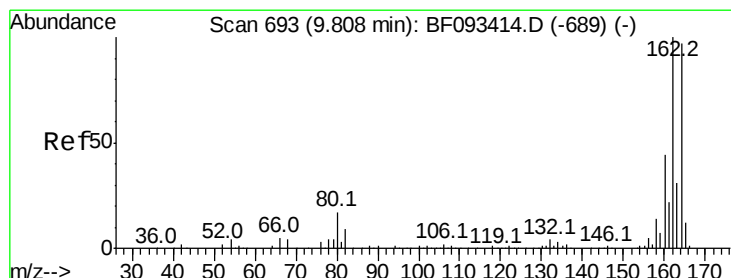
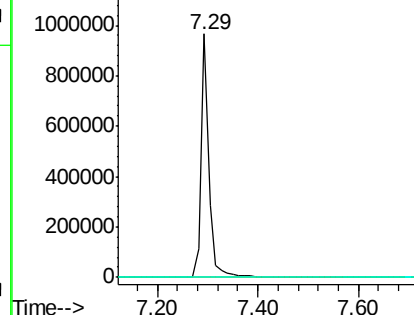
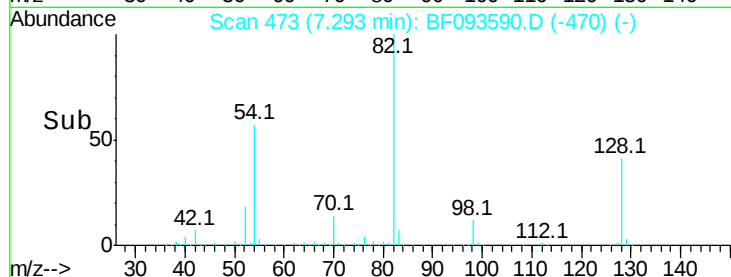
82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



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: 9.75 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

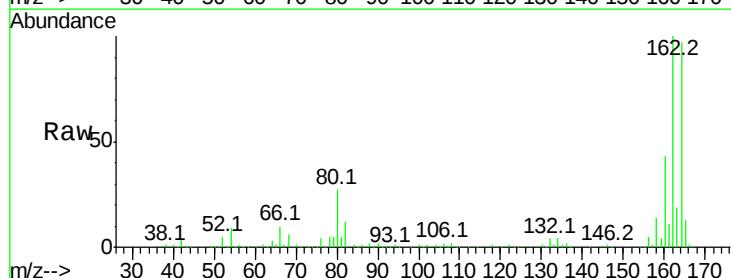
Tgt Ion: 164 Resp: 318043

Ion Ratio Lower Upper

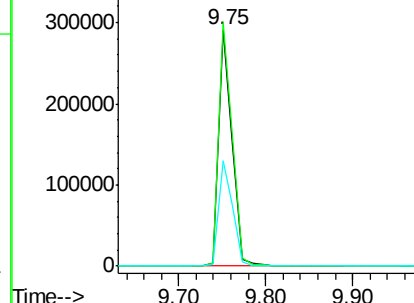
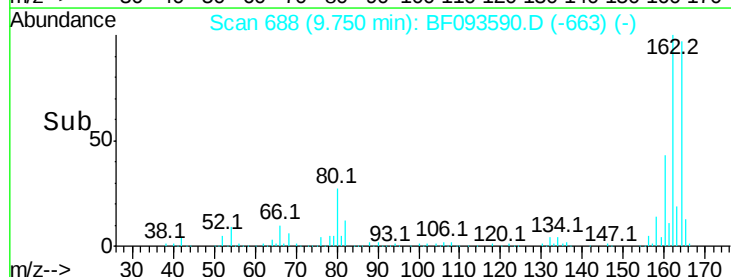
164 100

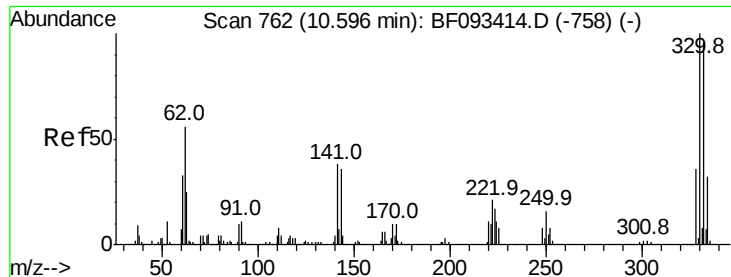
162 103.2 80.2 120.2

160 44.6 36.9 55.3



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

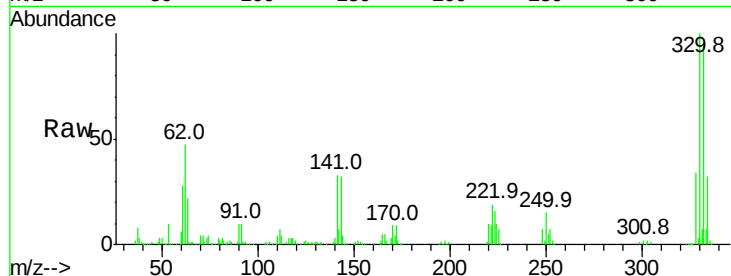




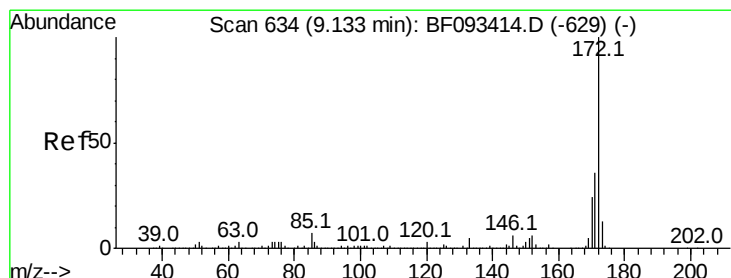
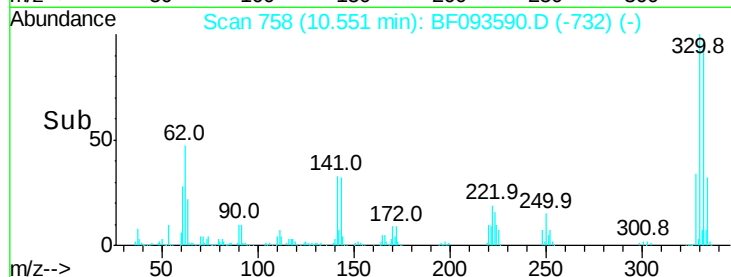
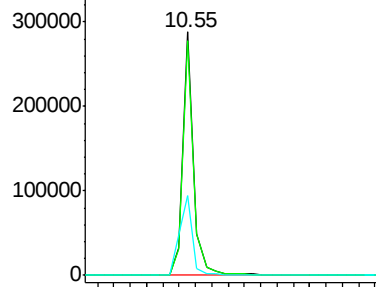
#41  
 2,4,6-Tribromophenol  
 Concen: 130.89 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.00 min  
 Lab File: BF093590.D  
 Acq: 12 Mar 2017 4:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 77.4  | 116.2 |
| 141     | 39.8  | 34.1  | 51.1  |

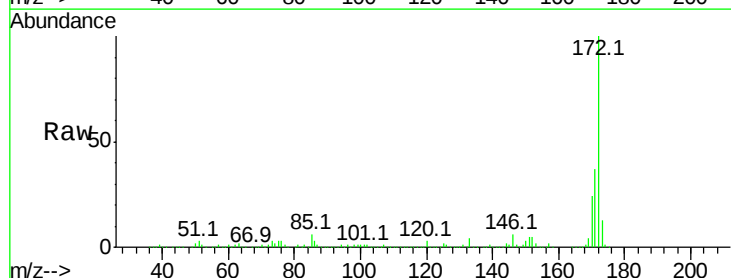


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

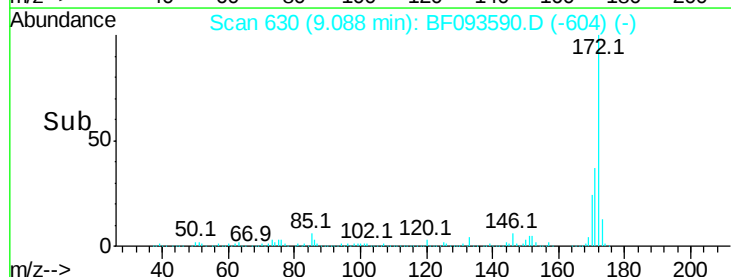
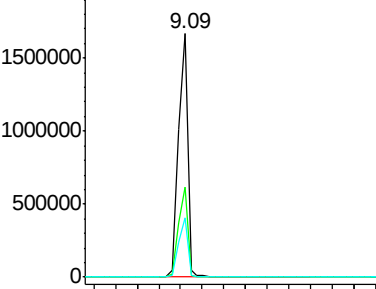


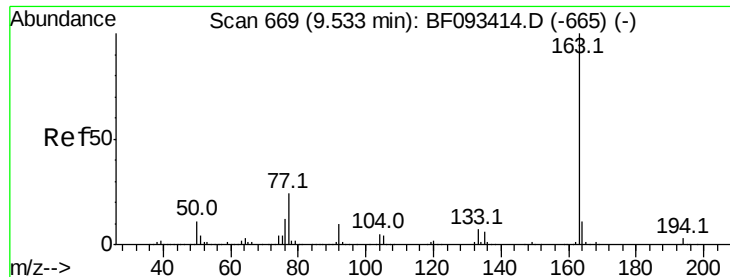
#44  
 2-Fluorobiphenyl  
 Concen: 113.10 ng  
 RT: 9.09 min Scan# 630  
 Delta R.T. -0.00 min  
 Lab File: BF093590.D  
 Acq: 12 Mar 2017 4:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 29.4  | 44.0  |
| 170     | 24.5  | 20.2  | 30.4  |



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: 2.59 ng

RT: 9.49 min Scan# 665

Delta R.T. -0.01 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

Instrument :

BNA\_F

ClientSampleId :

W-24

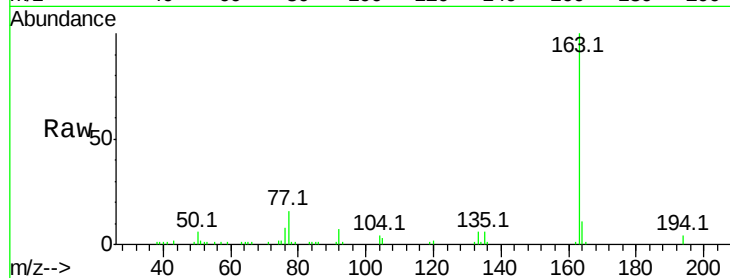
Tot Ion:163 Resp: 54644

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.4

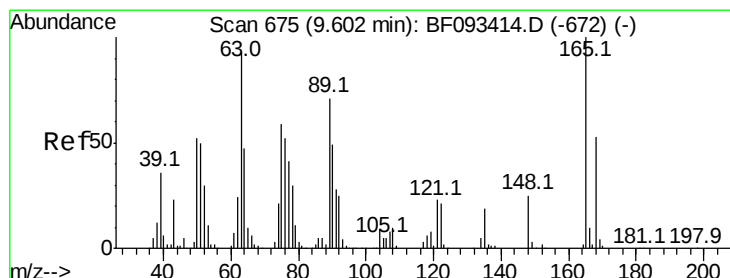
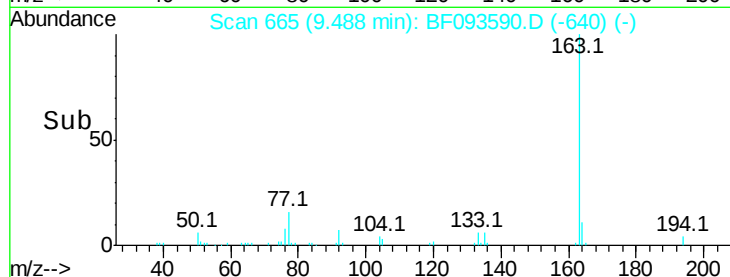
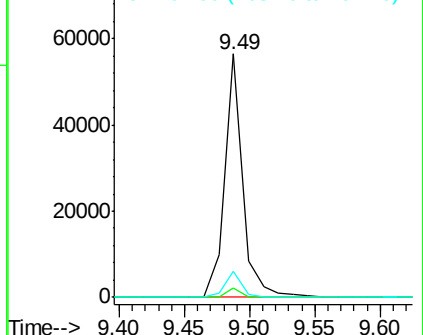
164 10.6 8.0 12.0



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



#50

2,6-Dinitrotoluene

Concen: 8.56 ng

RT: 9.75 min Scan# 688

Delta R.T. 0.18 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

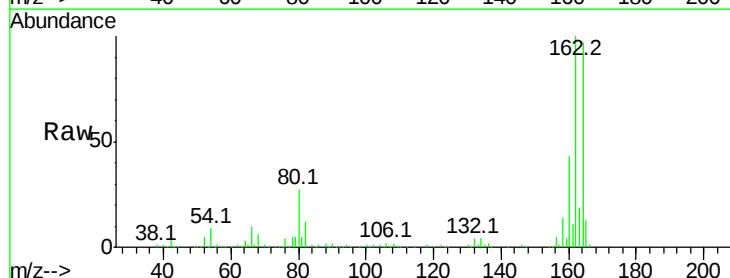
Tgt Ion:165 Resp: 39616

Ion Ratio Lower Upper

165 100

63 1.6 36.2 54.4#

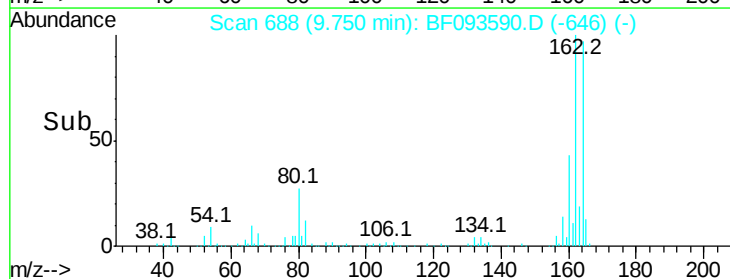
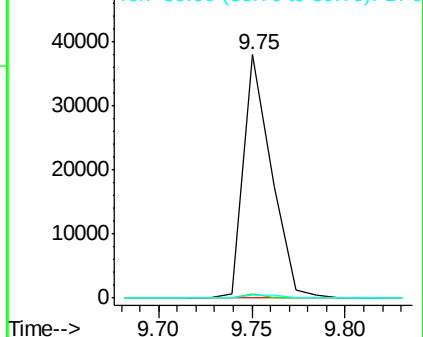
89 1.1 40.2 60.4#

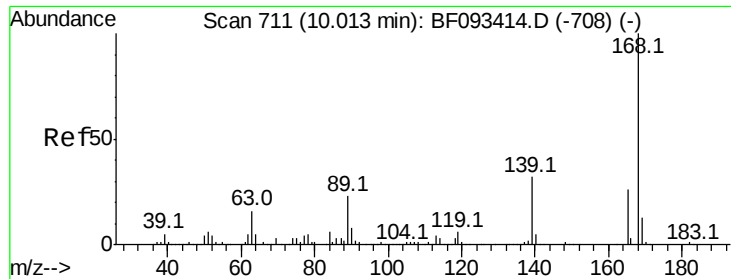


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.97 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.23 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

Instrument :

BNA\_F

ClientSampleId :

W-24

Tot Ion:165 Resp: 39618

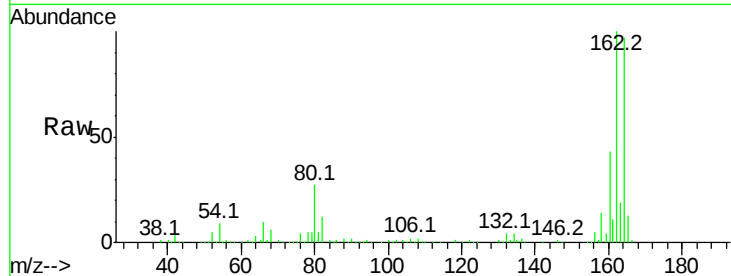
Ion Ratio Lower Upper

165 100

63 1.6 40.2 60.4#

89 1.1 62.5 93.7#

182 0.0 1.8 2.8#

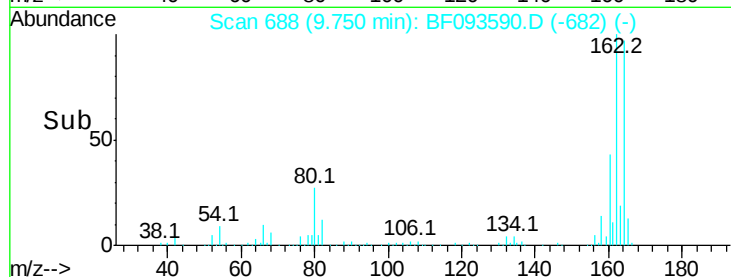


Abundance Ion 165.00 (164.70 to 165.70): E

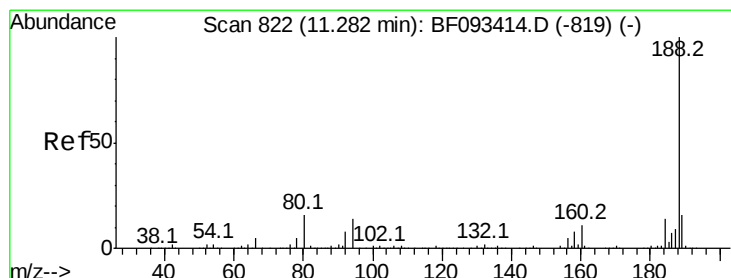
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.24 min Scan# 818

Delta R.T. -0.01 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

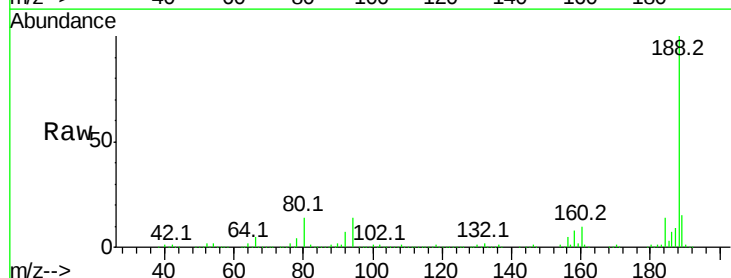
Tgt Ion:188 Resp: 497211

Ion Ratio Lower Upper

188 100

94 13.6 10.0 15.0

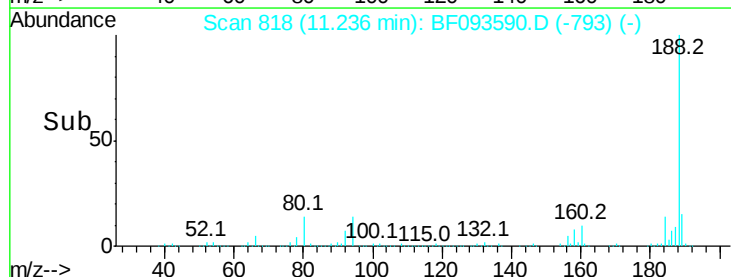
80 14.1 11.2 16.8



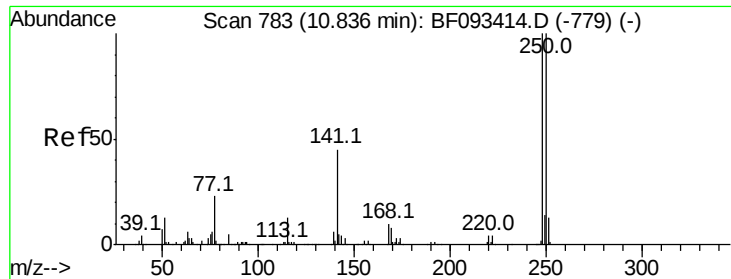
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



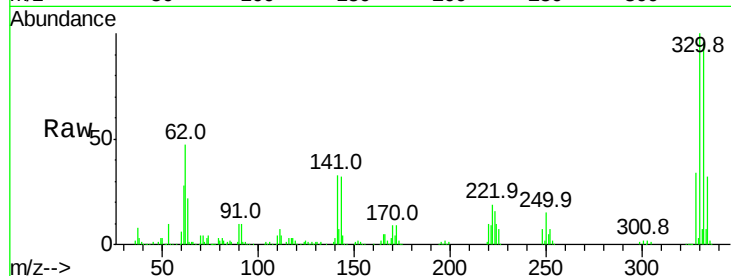
Time-->



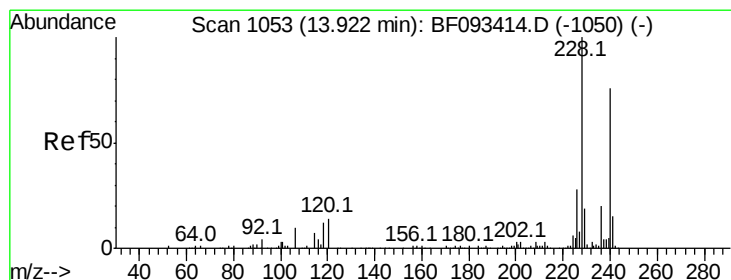
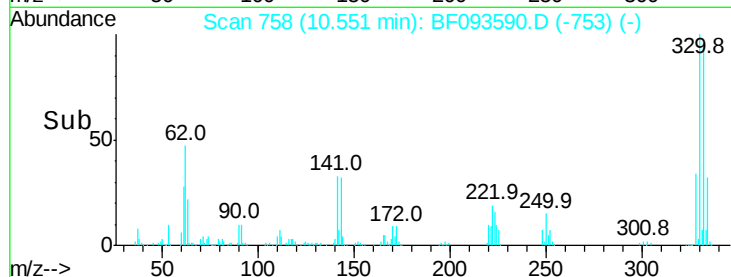
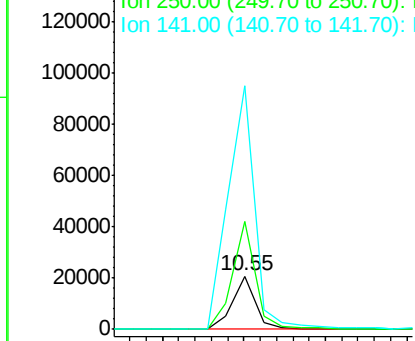
#66  
4-Bromophenyl-phenylether  
Concen: 3.89 ng  
RT: 10.55 min Scan# 758  
Delta R.T. -0.24 min  
Lab File: BF093590.D  
Acq: 12 Mar 2017 4:54

Instrument :  
BNA\_F  
ClientSampleId :  
W-24

Tot Ion:248 Resp: 20472  
Ion Ratio Lower Upper  
248 100  
250 202.4 76.9 115.3#  
141 455.5 68.2 102.4#

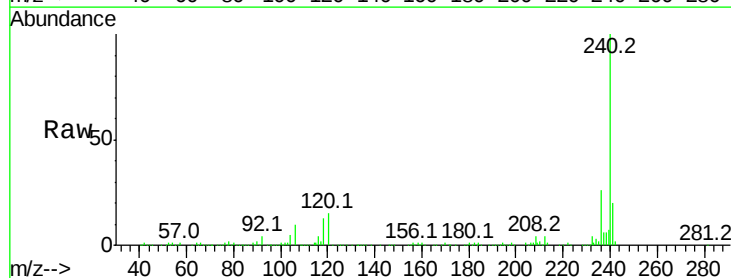


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

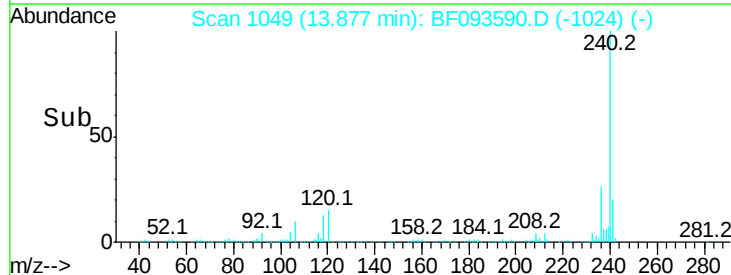
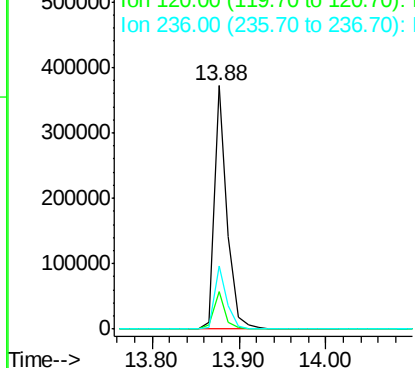


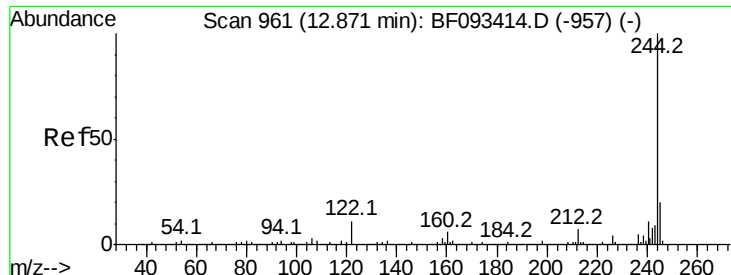
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.88 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: BF093590.D  
Acq: 12 Mar 2017 4:54

Tgt Ion:240 Resp: 381292  
Ion Ratio Lower Upper  
240 100  
120 15.3 12.9 19.3  
236 25.8 20.9 31.3



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: 84.97 ng

RT: 12.83 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

Instrument :

BNA\_F

ClientSampleId :

W-24

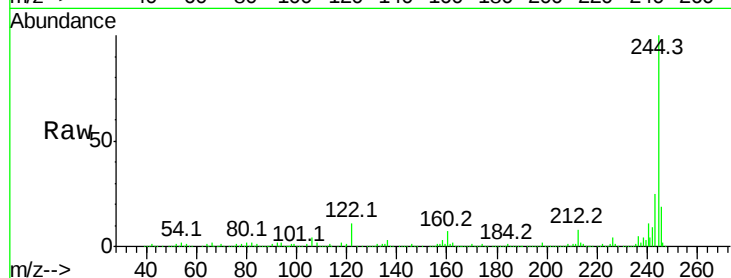
Tot Ion:244 Resp: 1246093

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

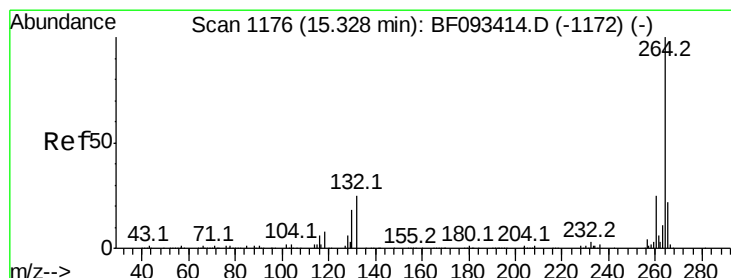
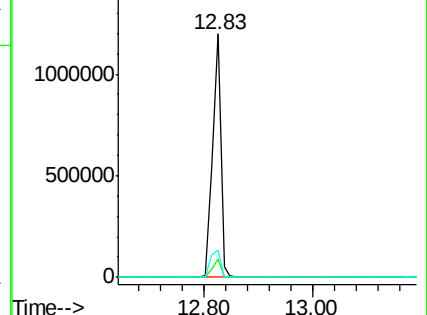
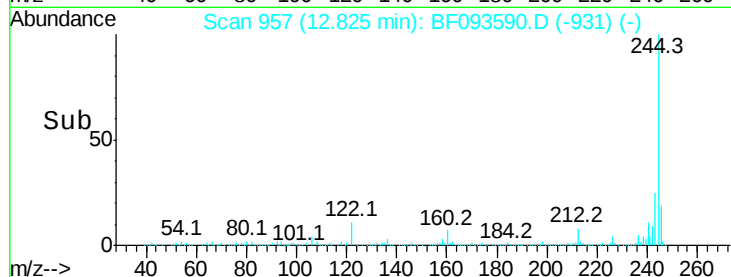
122 11.5 11.4 17.2



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: 15.28 min Scan# 1172

Delta R.T. -0.00 min

Lab File: BF093590.D

Acq: 12 Mar 2017 4:54

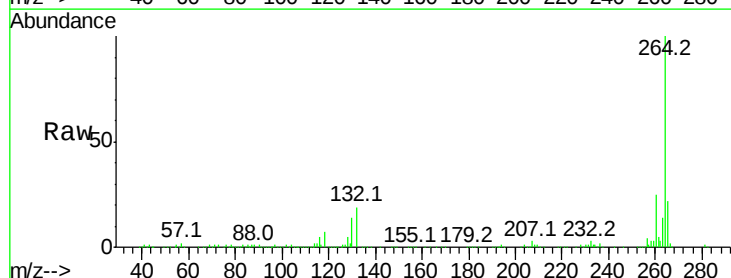
Tgt Ion:264 Resp: 320076

Ion Ratio Lower Upper

264 100

260 24.7 19.2 28.8

265 21.8 17.4 26.0



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

