

Data File : BF093084.D  
Acq On : 22 Feb 2017 19:20  
Operator : SJ/MA  
Sample : I1935-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-B31-B34-001

Quant Time: Feb 22 23:57:45 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 17:31:55 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 157861   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.12  | 136  | 637776   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.87  | 164  | 309578   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.36 | 188  | 599386   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.99 | 240  | 499991   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.41 | 264  | 391214   | 20.00 | ng    | -0.03    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.45  | 112 | 1135948 | 123.45 | ng | 0.00  |
| 7) Phenol-d6                | 6.49  | 99  | 1539509 | 130.04 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.40  | 82  | 998761  | 87.21  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330 | 339909  | 151.81 | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 9.20  | 172 | 1575874 | 92.22  | ng | -0.02 |
| 78) Terphenyl-d14           | 12.95 | 244 | 1694319 | 79.62  | ng | -0.02 |

|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70  | 128681 | 17.07 | ng | # 82   |
| 25) Isophorone                 | 7.40  | 82  | 914750 | 42.86 | ng | # 65   |
| 31) Naphthalene                | 8.14  | 128 | 74178  | 2.29  | ng | 99     |
| 32) Benzoic acid               | 7.92  | 122 | 14565  | 9.39  | ng | # 15   |
| 37) 2-Methylnaphthalene        | 8.83  | 142 | 86797  | 4.18  | ng | 98     |
| 50) 2,6-Dinitrotoluene         | 9.87  | 165 | 40076  | 8.90  | ng | # 32   |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165 | 40072  | 6.68  | ng | # 21   |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198 | 547    | 2.81  | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248 | 23023  | 3.68  | ng | # 1    |

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

Data File : BF093084.D

Acq On : 22 Feb 2017 19:20

Operator : SJ/MA

Sample : I1935-02

Misc :

ALS Vial : 12 Sample Multiplier: 1

Instrument :

BNA\_F

ClientSampleId :

WC-B31-B34-001

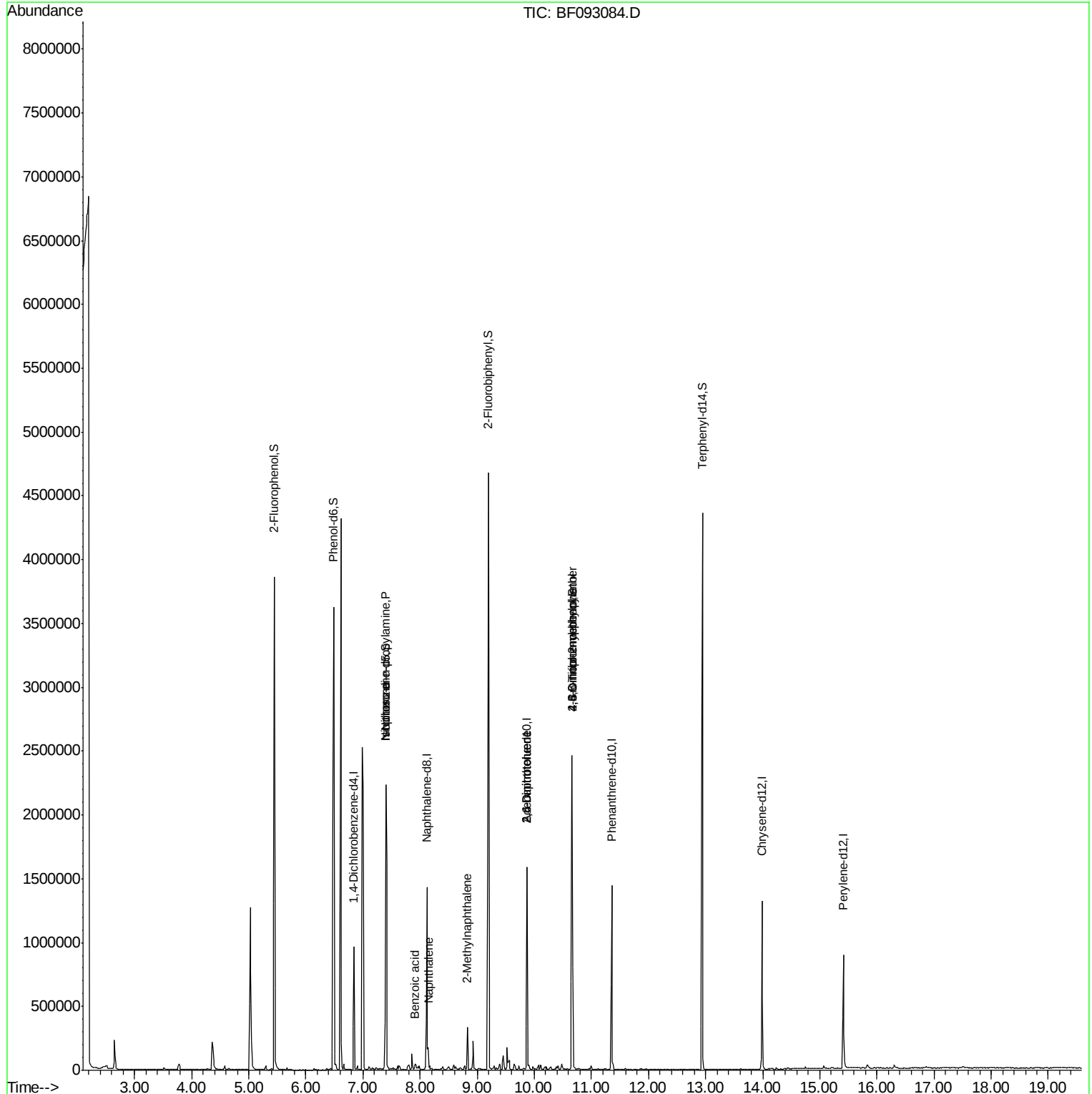
Quant Time: Feb 22 23:57:45 2017

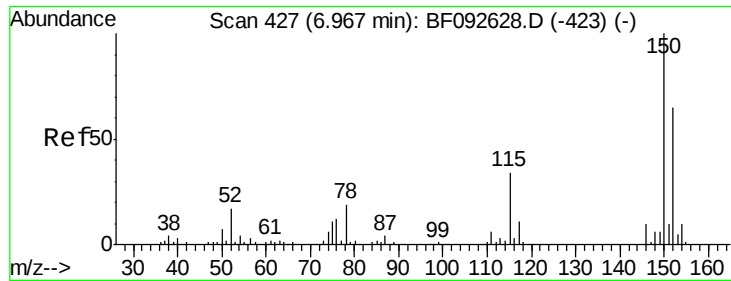
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 17 17:31:55 2017

Response via : Initial Calibration



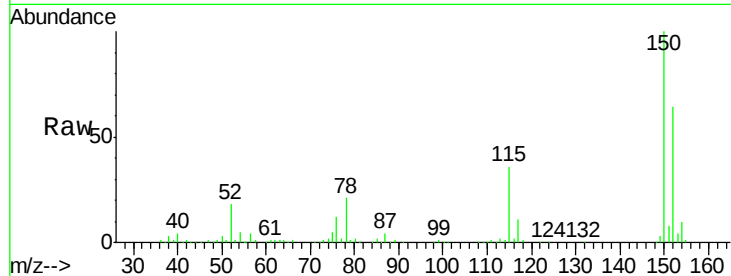


#1

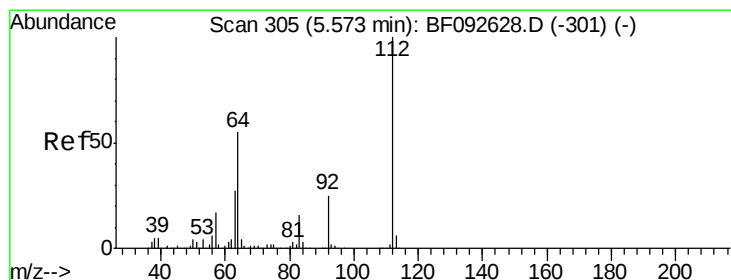
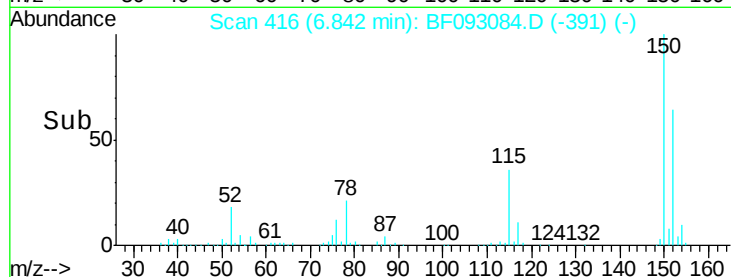
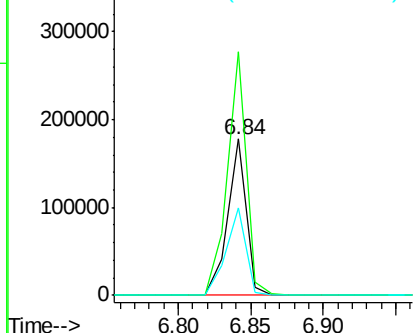
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.84 min Scan# 416  
Delta R.T. -0.01 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

Instrument :  
BNA\_F  
ClientSampleId :  
WC-B31-B34-001

Tgt Ion:152 Resp: 157861  
Ion Ratio Lower Upper  
152 100  
150 156.1 124.9 187.3  
115 55.7 46.0 69.0



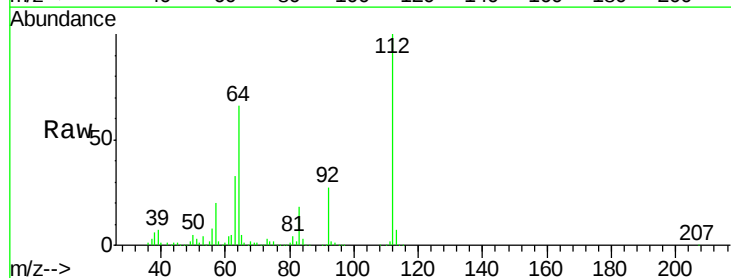
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



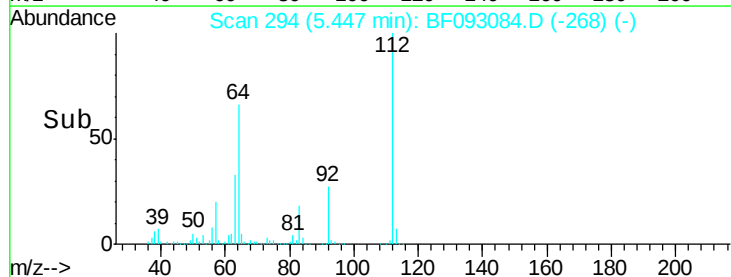
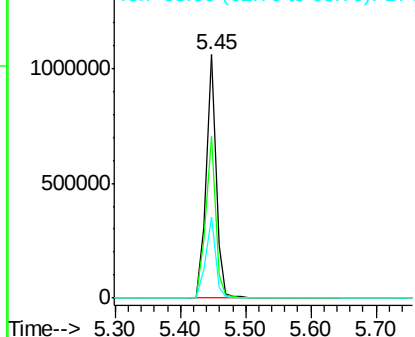
#5

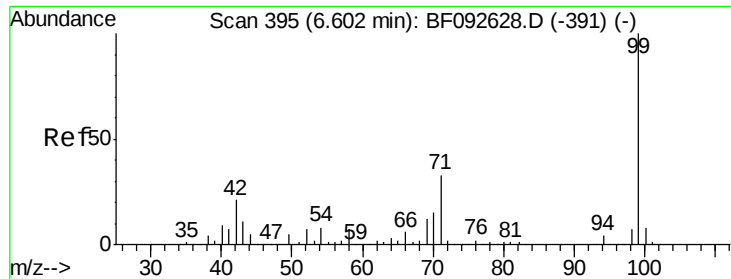
2-Fluorophenol  
Concen: 123.45 ng  
RT: 5.45 min Scan# 294  
Delta R.T. -0.00 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

Tgt Ion:112 Resp: 1135948  
Ion Ratio Lower Upper  
112 100  
64 66.2 46.1 69.1  
63 33.1 23.8 35.6



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: 130.04 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF093084.D

Acq: 22 Feb 2017 19:20

Instrument :

BNA\_F

ClientSampleId :

WC-B31-B34-001

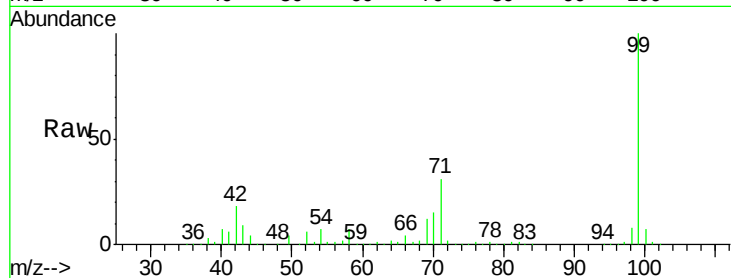
Tgt Ion: 99 Resp: 1539509

Ion Ratio Lower Upper

99 100

42 17.5 15.6 23.4

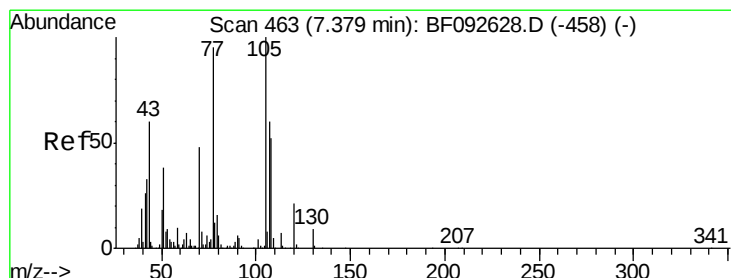
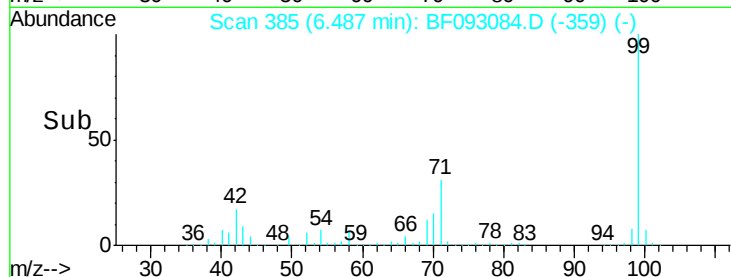
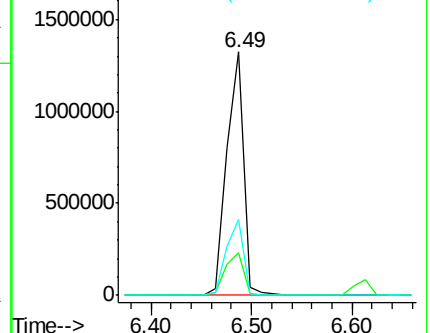
71 31.4 27.5 41.3



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: 17.07 ng

RT: 7.40 min Scan# 465

Delta R.T. 0.13 min

Lab File: BF093084.D

Acq: 22 Feb 2017 19:20

Tgt Ion: 70 Resp: 128681

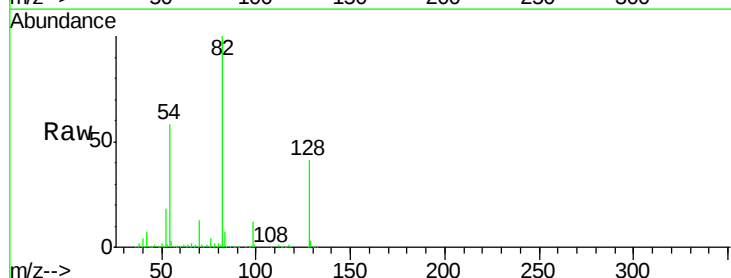
Ion Ratio Lower Upper

70 100

42 52.1 49.4 74.0

101 0.0 7.4 11.2#

130 2.1 14.2 21.4#

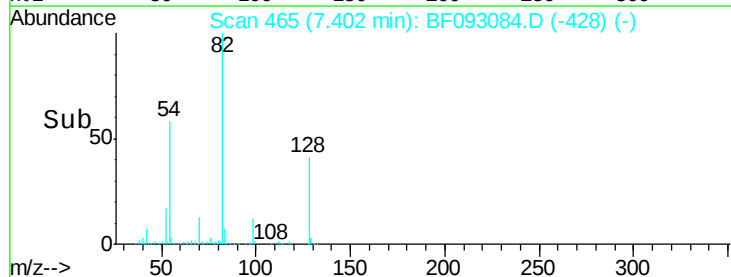
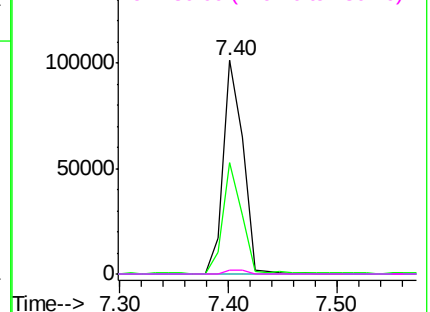


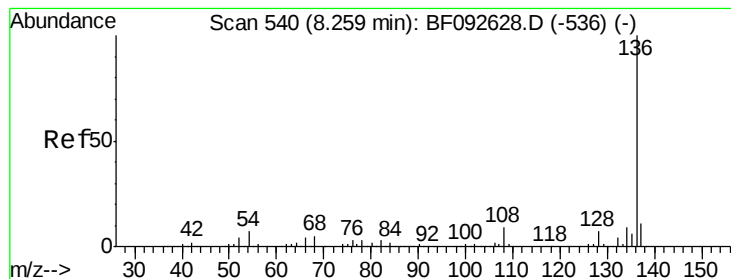
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093084.D

Acq: 22 Feb 2017 19:20

Instrument :

BNA\_F

ClientSampleId :

WC-B31-B34-001

Tgt Ion:136 Resp: 637776

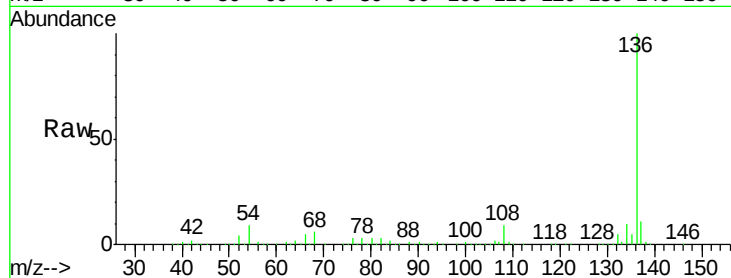
Ion Ratio Lower Upper

136 100

137 11.1 8.4 12.6

54 8.9 4.5 6.7#

68 6.3 3.6 5.4#

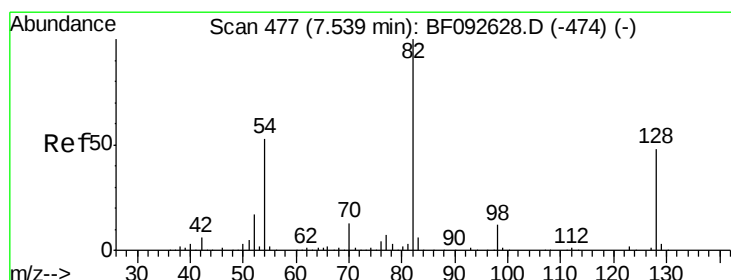
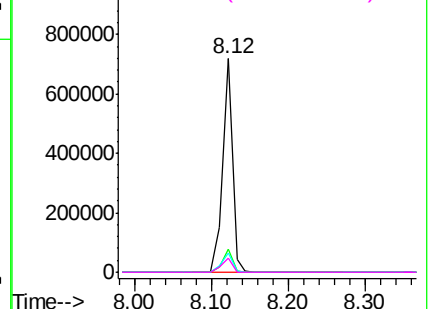
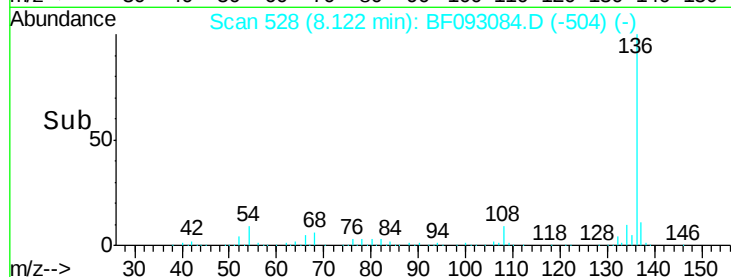


Abundance Ion 136.00 (135.70 to 136.70): E

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: 87.21 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.02 min

Lab File: BF093084.D

Acq: 22 Feb 2017 19:20

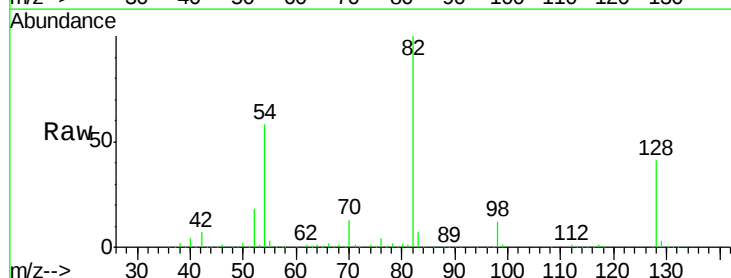
Tgt Ion: 82 Resp: 998761

Ion Ratio Lower Upper

82 100

128 40.6 34.6 52.0

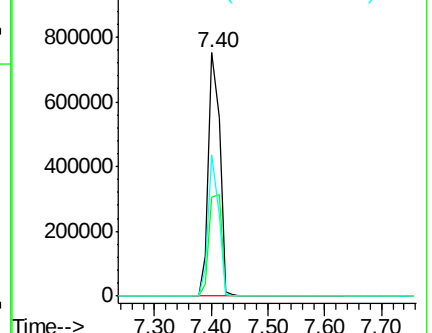
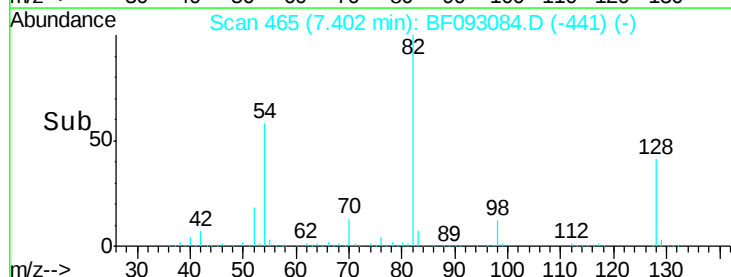
54 57.9 39.5 59.3

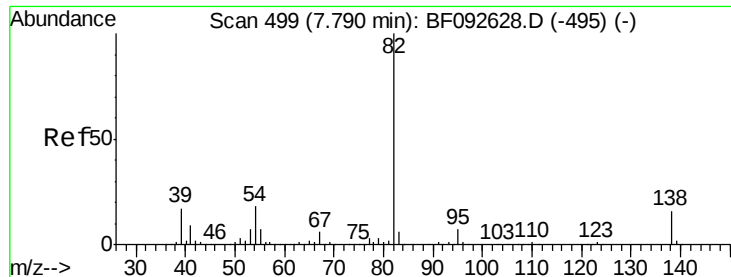


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 42.86 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.29 min

Lab File: BF093084.D

Acq: 22 Feb 2017 19:20

Instrument :

BNA\_F

ClientSampleId :

WC-B31-B34-001

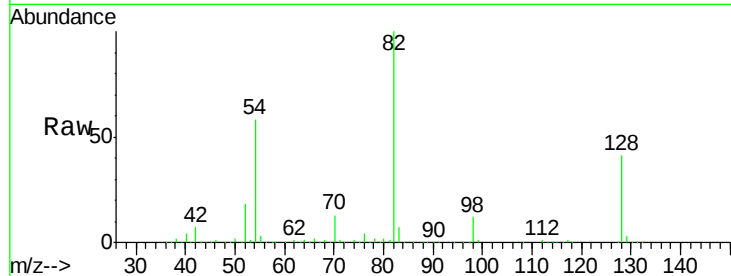
Tgt Ion: 82 Resp: 914750

Ion Ratio Lower Upper

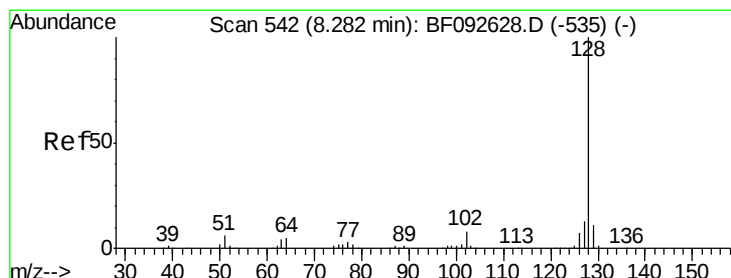
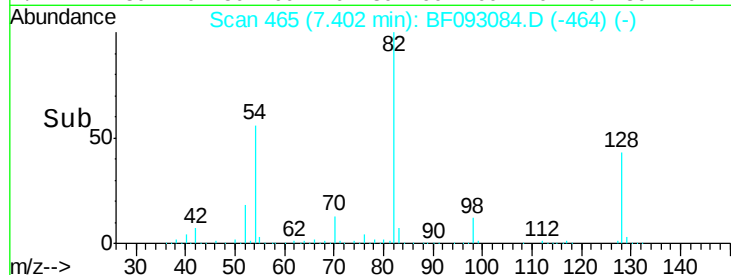
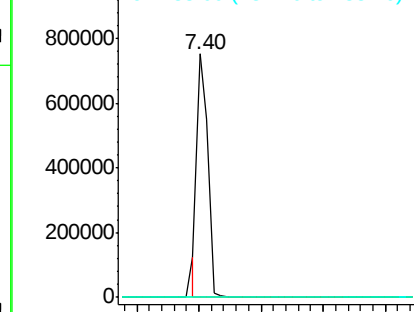
82 100

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



#31

Naphthalene

Concen: 2.29 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF093084.D

Acq: 22 Feb 2017 19:20

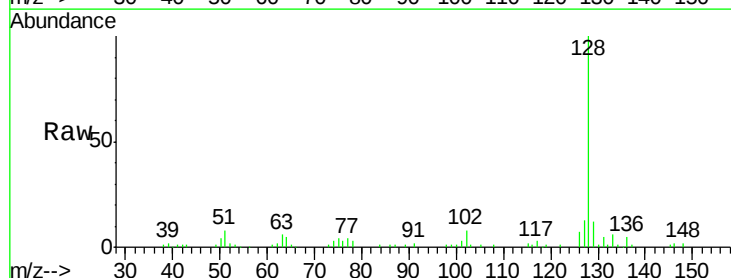
Tgt Ion: 128 Resp: 74178

Ion Ratio Lower Upper

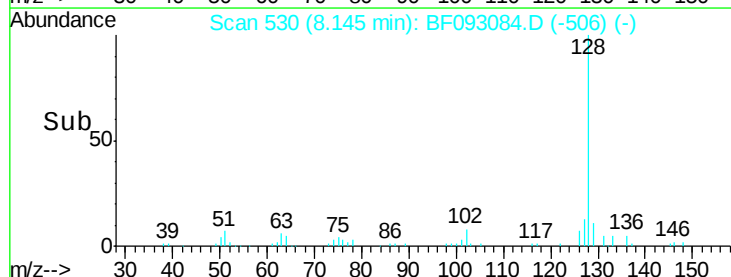
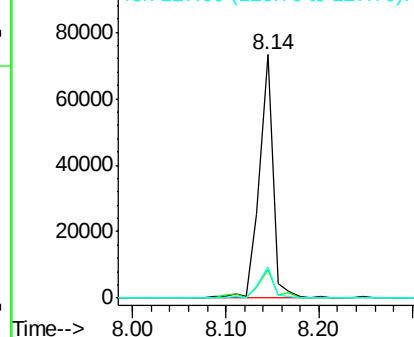
128 100

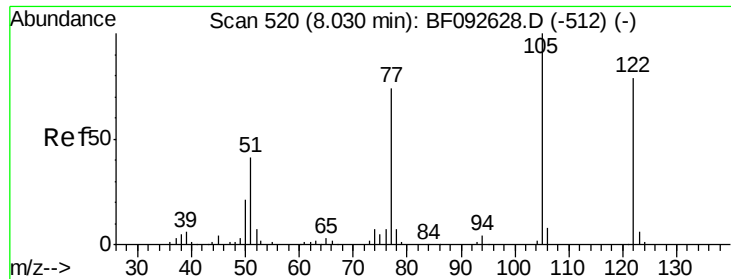
129 11.6 9.5 14.3

127 12.7 10.8 16.2



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

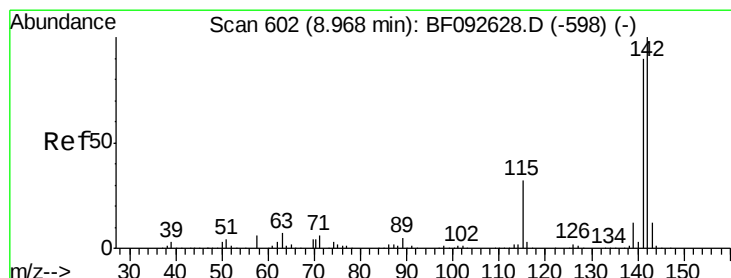
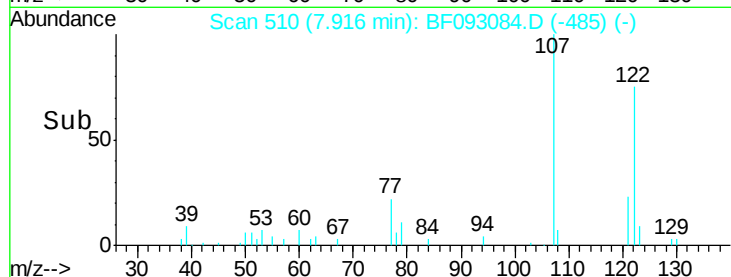
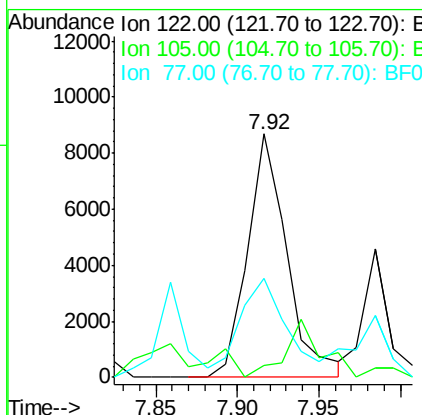
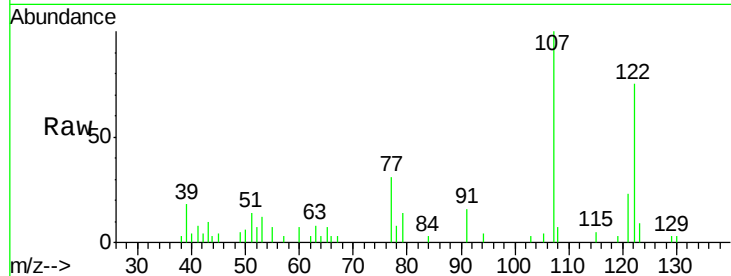




#32  
Benzoic acid  
Concen: 9.39 ng  
RT: 7.92 min Scan# 510  
Delta R.T. -0.01 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

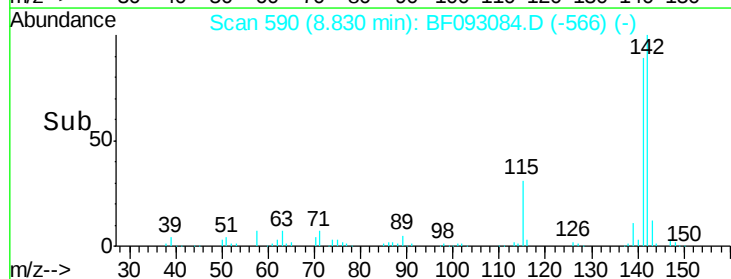
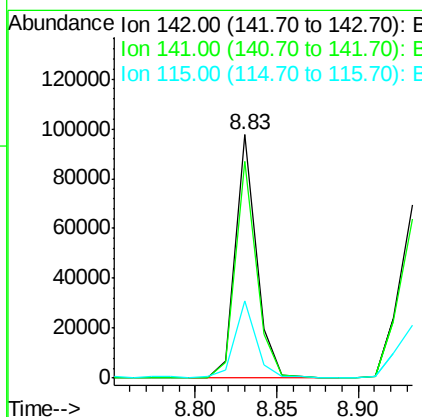
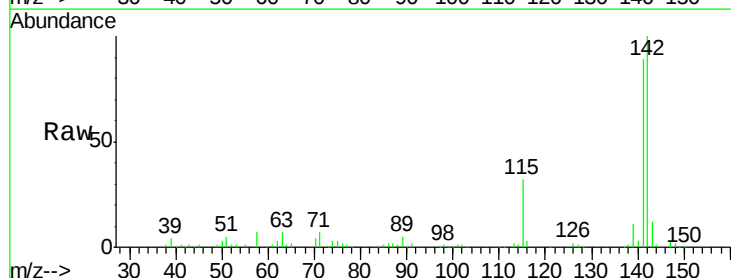
Instrument :  
BNA\_F  
ClientSampleId :  
WC-B31-B34-001

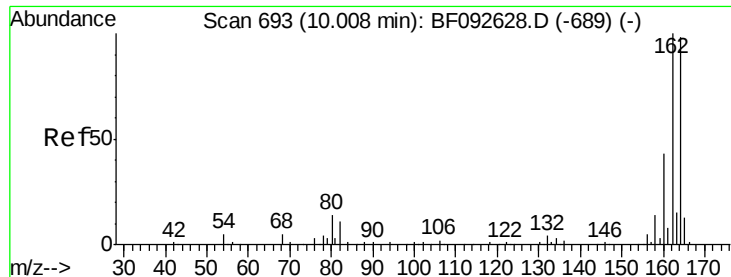
Tgt Ion:122 Resp: 14565  
Ion Ratio Lower Upper  
122 100  
105 4.8 107.2 147.2#  
77 40.7 74.5 114.5#



#37  
2-Methylnaphthalene  
Concen: 4.18 ng  
RT: 8.83 min Scan# 590  
Delta R.T. -0.02 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

Tgt Ion:142 Resp: 86797  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.0 106.6  
115 31.8 28.3 42.5

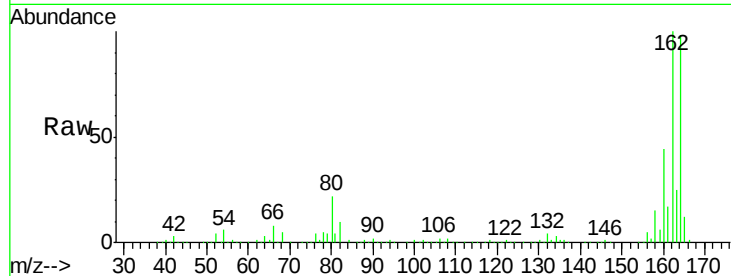




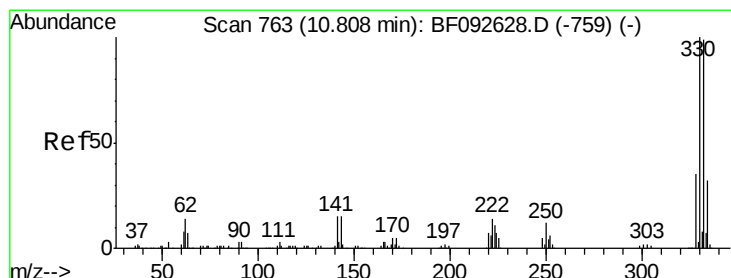
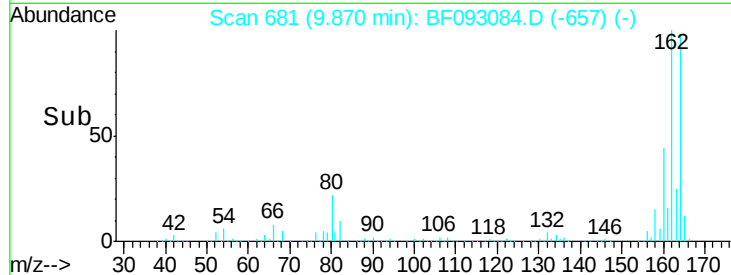
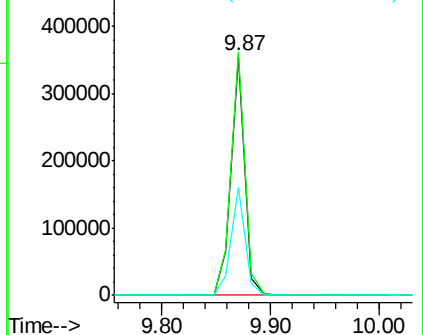
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.87 min Scan# 681  
 Delta R.T. -0.02 min  
 Lab File: BF093084.D  
 Acq: 22 Feb 2017 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-B31-B34-001

Tgt Ion:164 Resp: 309578  
 Ion Ratio Lower Upper  
 164 100  
 162 101.8 80.2 120.2  
 160 44.9 36.9 55.3

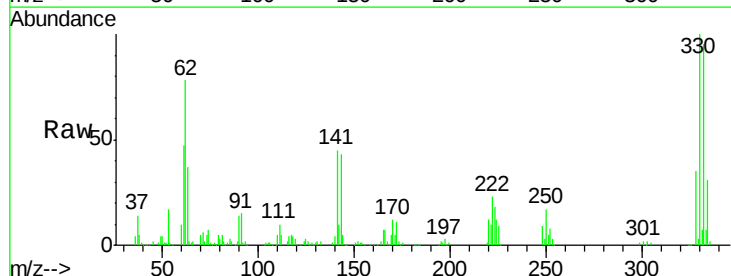


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

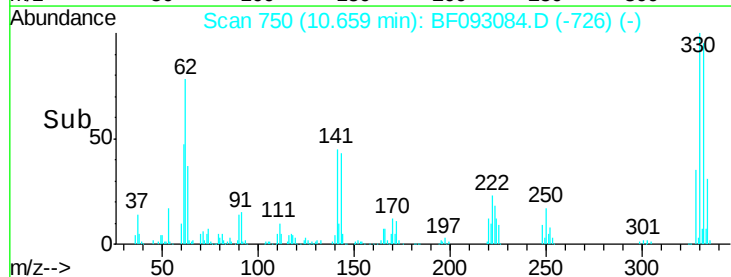
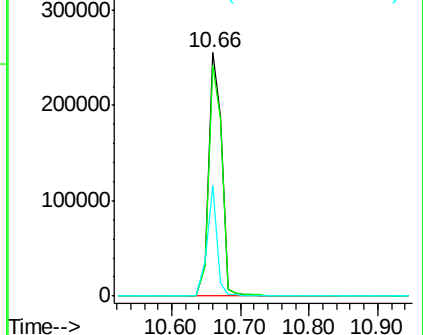


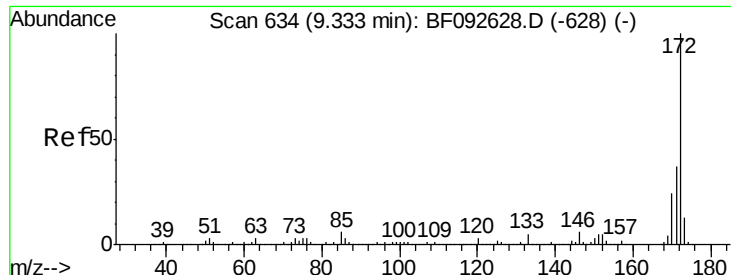
#41  
 2,4,6-Tribromophenol  
 Concen: 151.81 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. -0.02 min  
 Lab File: BF093084.D  
 Acq: 22 Feb 2017 19:20

Tgt Ion:330 Resp: 339909  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.4 116.2  
 141 35.4 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

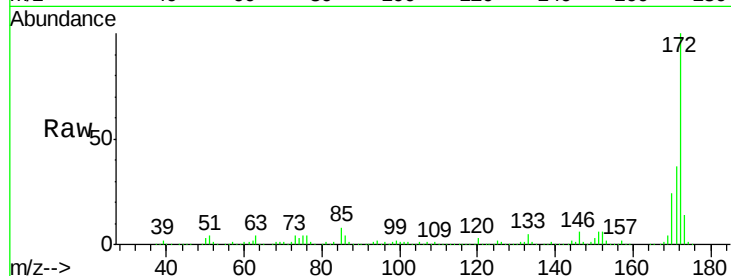




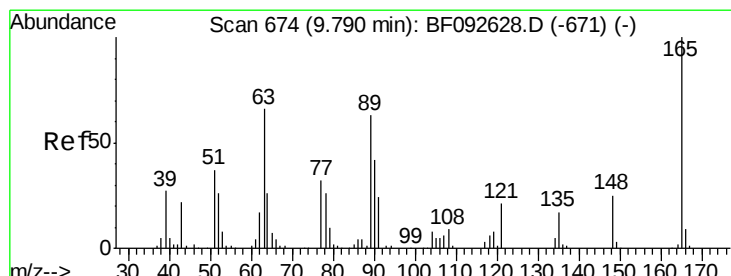
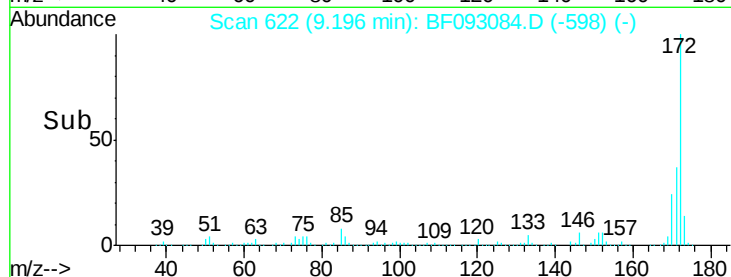
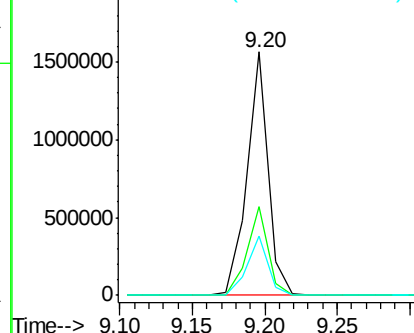
#44  
 2-Fluorobiphenyl  
 Concen: 92.22 ng  
 RT: 9.20 min Scan# 622  
 Delta R.T. -0.02 min  
 Lab File: BF093084.D  
 Acq: 22 Feb 2017 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-B31-B34-001

Tgt Ion:172 Resp: 1575874  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 29.4 44.0  
 170 24.3 20.2 30.4

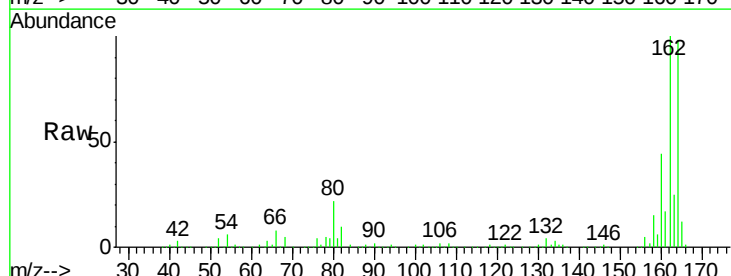


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

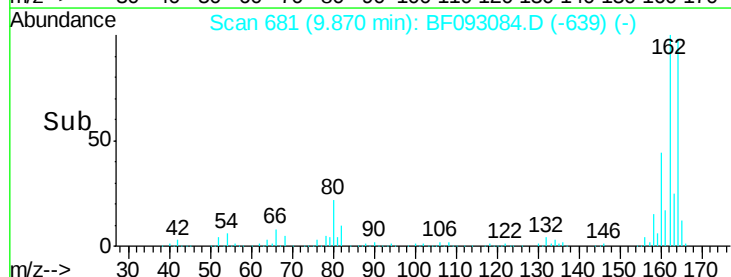
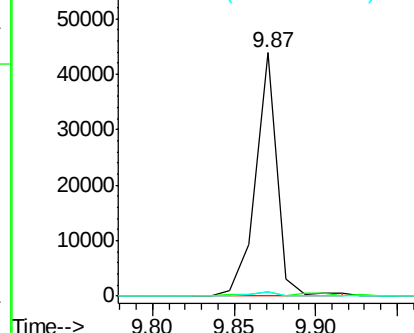


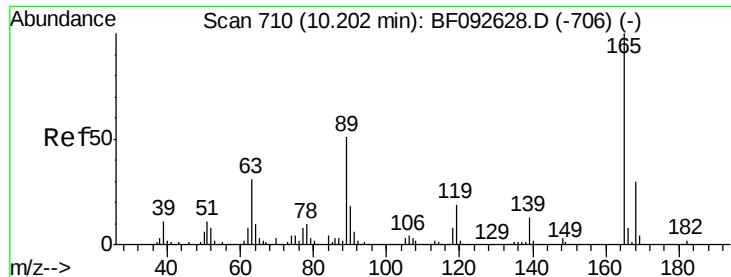
#50  
 2,6-Dinitrotoluene  
 Concen: 8.90 ng  
 RT: 9.87 min Scan# 681  
 Delta R.T. 0.18 min  
 Lab File: BF093084.D  
 Acq: 22 Feb 2017 19:20

Tgt Ion:165 Resp: 40076  
 Ion Ratio Lower Upper  
 165 100  
 63 1.8 36.2 54.4#  
 89 1.9 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

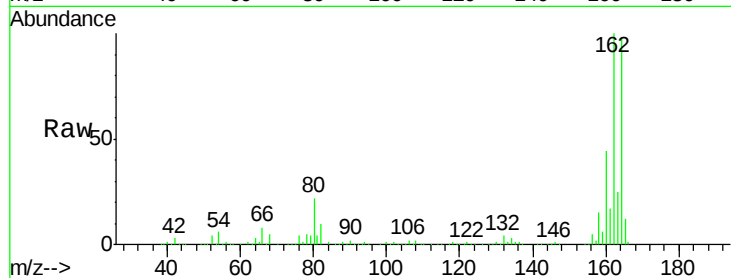




#56  
2,4-Dinitrotoluene  
Concen: 6.68 ng  
RT: 9.87 min Scan# 681  
Delta R.T. -0.22 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

Instrument :  
BNA\_F  
ClientSampleId :  
WC-B31-B34-001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 40.2  | 60.4# |
| 89      | 1.9   | 62.5  | 93.7# |
| 182     | 0.0   | 1.8   | 2.8#  |

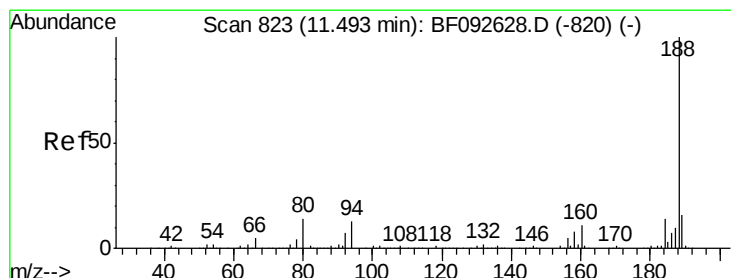
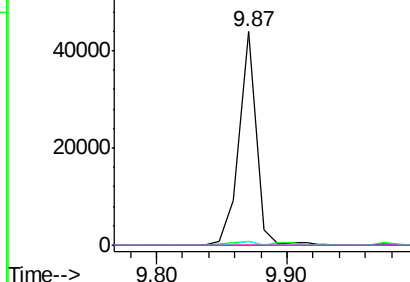
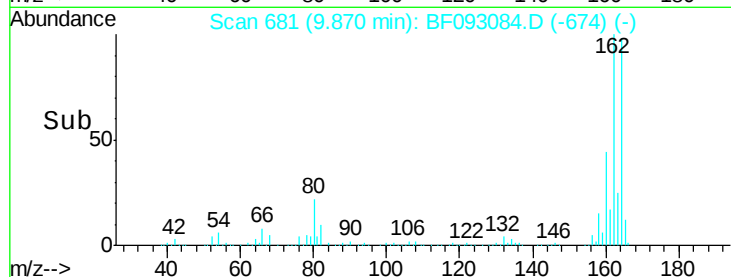


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

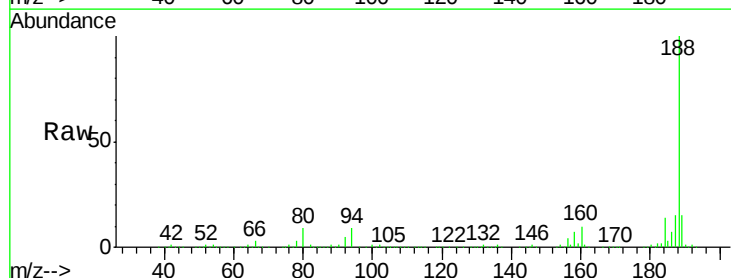
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.36 min Scan# 811  
Delta R.T. -0.02 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

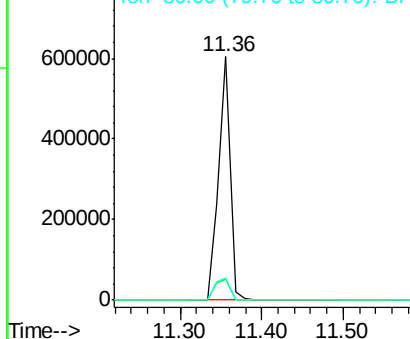
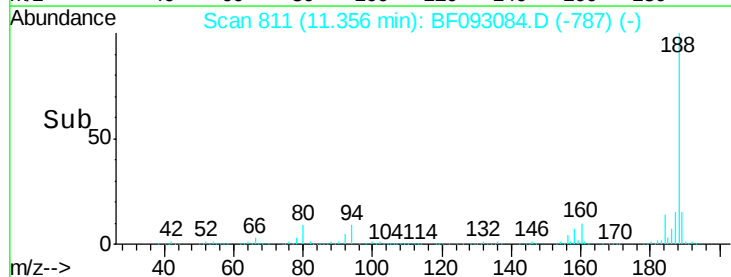
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.6   | 10.0  | 15.0# |
| 80      | 9.1   | 11.2  | 16.8# |

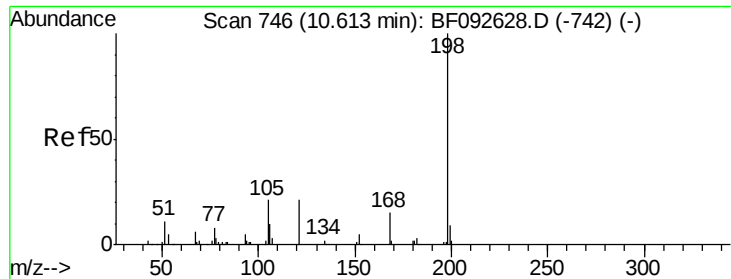


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

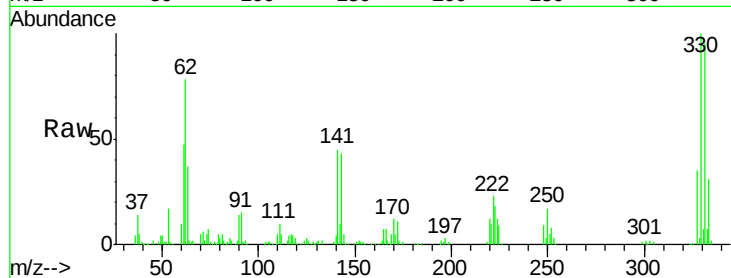




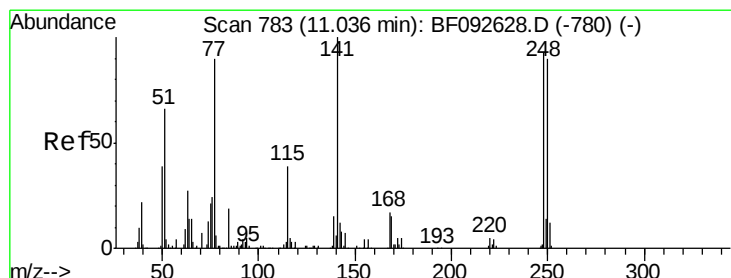
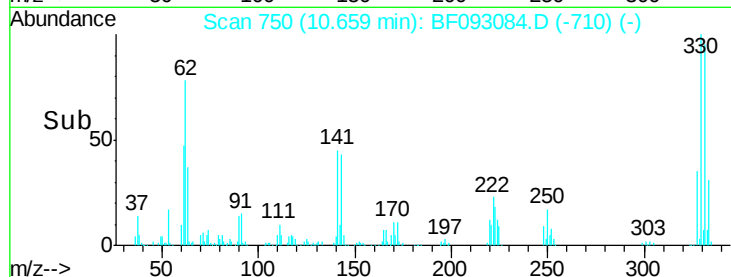
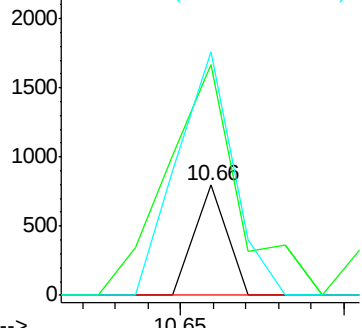
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 2.81 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. 0.16 min  
 Lab File: BF093084.D  
 Acq: 22 Feb 2017 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-B31-B34-001

Tgt Ion:198 Resp: 547  
 Ion Ratio Lower Upper  
 198 100  
 51 209.6 6.7 46.7#  
 105 220.7 16.6 56.6#

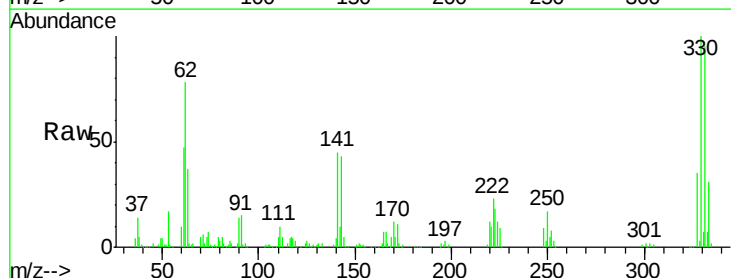


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF0  
 Ion 105.00 (104.70 to 105.70): E

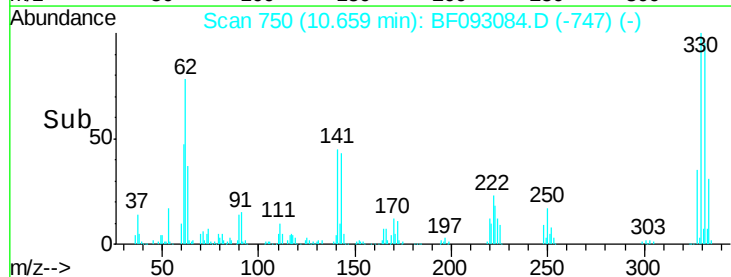
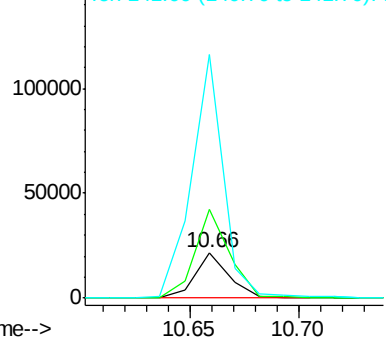


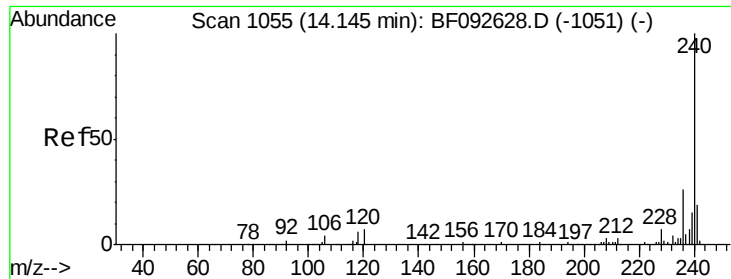
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.68 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. -0.26 min  
 Lab File: BF093084.D  
 Acq: 22 Feb 2017 19:20

Tgt Ion:248 Resp: 23023  
 Ion Ratio Lower Upper  
 248 100  
 250 195.5 76.9 115.3#  
 141 535.0 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

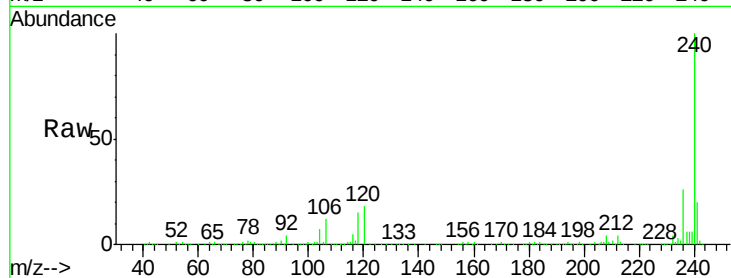




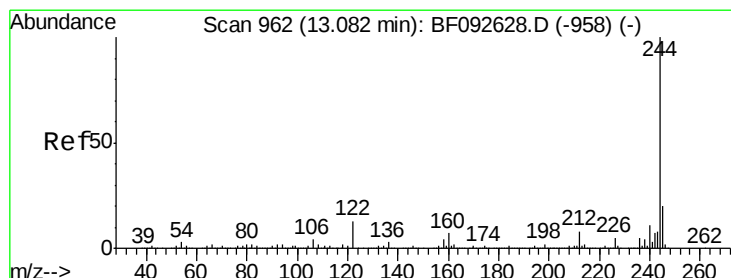
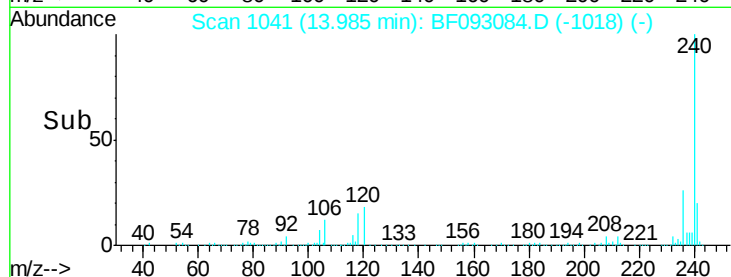
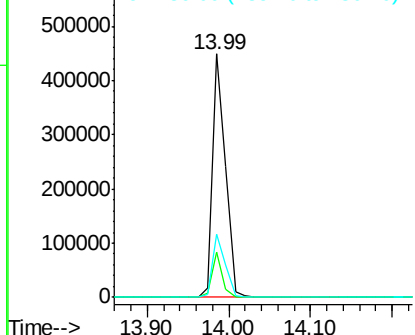
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.99 min Scan# 1041  
Delta R.T. -0.03 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

Instrument :  
BNA\_F  
ClientSampleId :  
WC-B31-B34-001

Tgt Ion:240 Resp: 499991  
Ion Ratio Lower Upper  
240 100  
120 18.4 12.9 19.3  
236 26.0 20.9 31.3

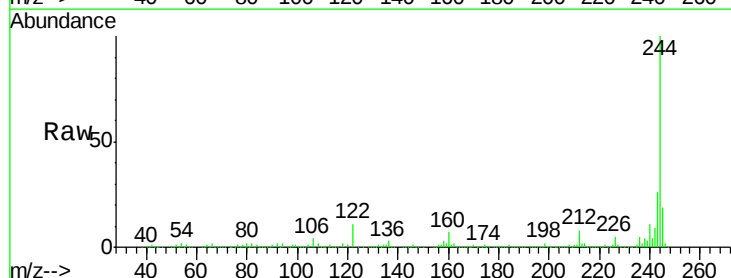


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

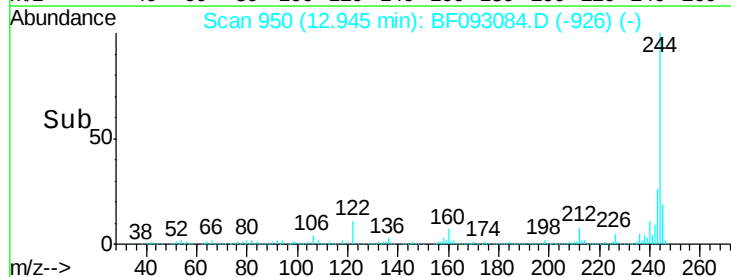
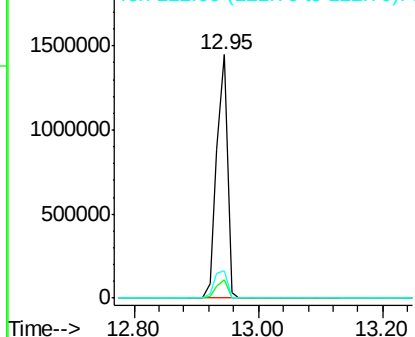


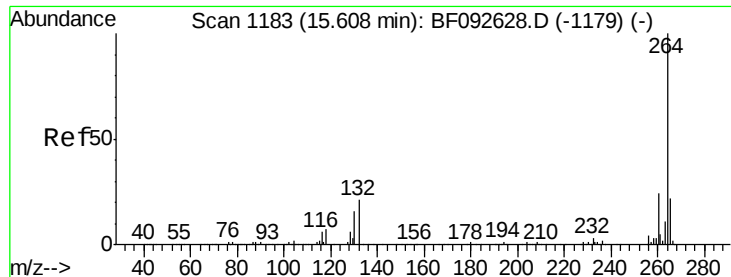
#78  
Terphenyl-d14  
Concen: 79.62 ng  
RT: 12.95 min Scan# 950  
Delta R.T. -0.02 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

Tgt Ion:244 Resp: 1694319  
Ion Ratio Lower Upper  
244 100  
212 7.5 6.2 9.2  
122 11.4 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: 15.41 min Scan# 1166  
Delta R.T. -0.03 min  
Lab File: BF093084.D  
Acq: 22 Feb 2017 19:20

Instrument :  
BNA\_F  
ClientSampleId :  
WC-B31-B34-001

Tgt Ion: 264 Resp: 391214  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.2 28.8  
265 21.3 17.4 26.0

