

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\  
 Data File : BF092670.D  
 Acq On : 31 Jan 2017 9:01  
 Operator : SJ/MA  
 Sample : I1572-01  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSITE-1

Quant Time: Jan 31 09:44:34 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 30 14:50:05 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 153609   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.25  | 136  | 612493   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 10.01 | 164  | 288725   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.49 | 188  | 367600   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.13 | 240  | 296590   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.61 | 264  | 213752   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.58  | 112  | 1271478  | 142.01 | ng    | 0.01     |
| 7) Phenol-d6                | 6.61  | 99   | 1814528  | 157.51 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 977096   | 88.84  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.81 | 330  | 186773   | 89.44  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.33  | 172  | 1501050  | 94.19  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 927203   | 73.46  | ng    | 0.00     |

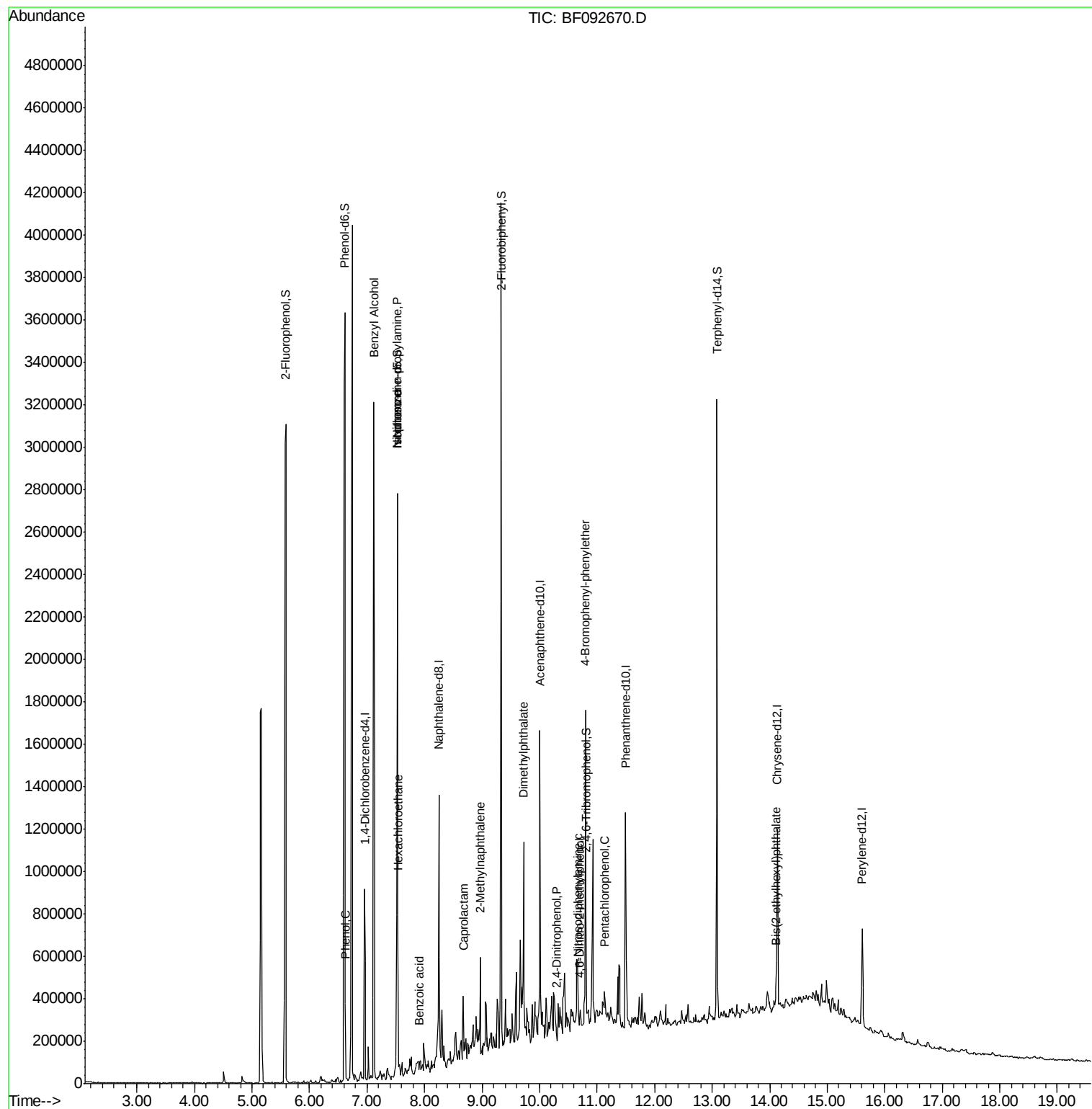
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 10) Phenol                     | 6.62  | 94   | 156015   | 11.58 | ng    | # 58   |
| 15) Benzyl Alcohol             | 7.12  | 79   | 17681    | 2.07  | ng    | # 42   |
| 18) Hexachloroethane           | 7.54  | 117  | 12896    | 3.23  | ng    | # 25   |
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70   | 138340   | 18.86 | ng    | # 84   |
| 25) Isophorone                 | 7.53  | 82   | 963766   | 47.02 | ng    | # 65   |
| 32) Benzoic acid               | 7.90  | 122  | 569      | 7.26  | ng    | # 1    |
| 35) Caprolactam                | 8.67  | 113  | 7325     | 2.65  | ng    | # 1    |
| 37) 2-Methylnaphthalene        | 8.97  | 142  | 129793   | 6.51  | ng    | 97     |
| 49) Dimethylphthalate          | 9.72  | 163  | 195888   | 10.07 | ng    | 100    |
| 53) 2,4-Dinitrophenol          | 10.29 | 184  | 1540     | 5.41  | ng    | 93     |
| 64) 4,6-Dinitro-2-methylphenol | 10.69 | 198  | 466      | 2.87  | ng    | # 1    |
| 65) n-Nitrosodiphenylamine     | 10.67 | 169  | 25149    | 2.14  | ng    | # 52   |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 13807    | 3.60  | ng    | # 1    |
| 69) Pentachlorophenol          | 11.13 | 266  | 233      | 7.31  | ng    | # 18   |
| 83) Bis(2-ethylhexyl)phthalate | 14.11 | 149  | 25573    | 2.07  | ng    | # 92   |

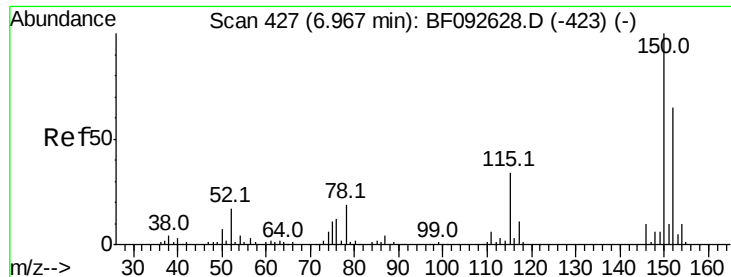
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\  
Data File : BF092670.D  
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Misc :  
ALS Vial : 35 Sample Multiplier: 1

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 30 14:50:05 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.96 min Scan# 426

Delta R.T. -0.01 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

Instrument :

BNA\_F

ClientSampled :

COMPOSITE-1

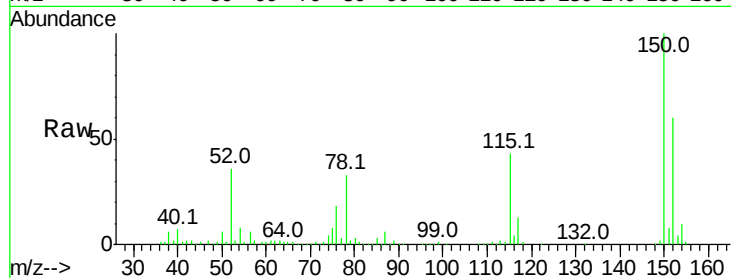
Tot Ion:152 Resp: 153609

Ion Ratio Lower Upper

152 100

150 165.7 124.9 187.3

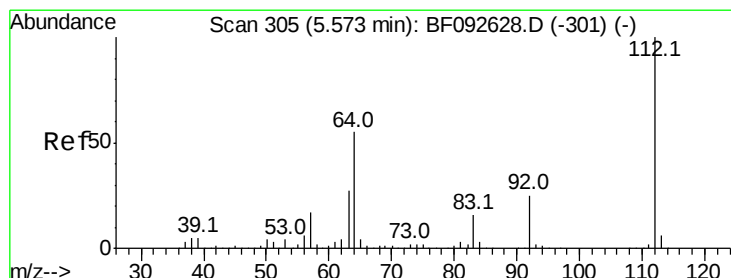
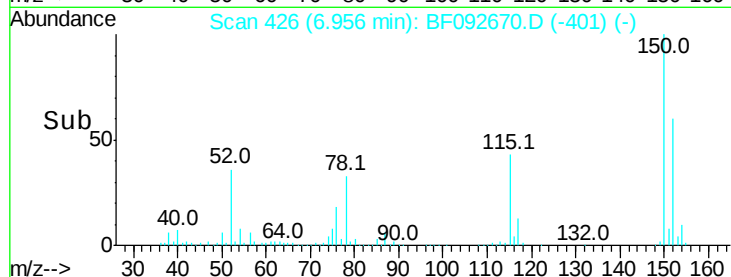
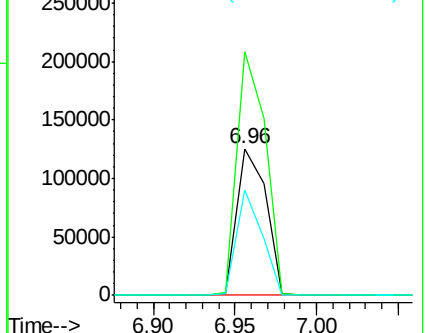
115 71.8 46.0 69.0#



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: 142.01 ng

RT: 5.58 min Scan# 306

Delta R.T. 0.01 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

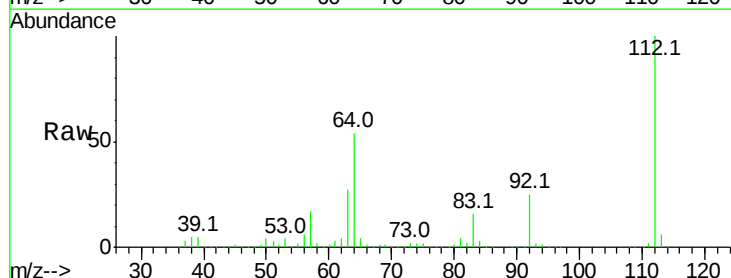
Tgt Ion:112 Resp: 1271478

Ion Ratio Lower Upper

112 100

64 54.4 46.1 69.1

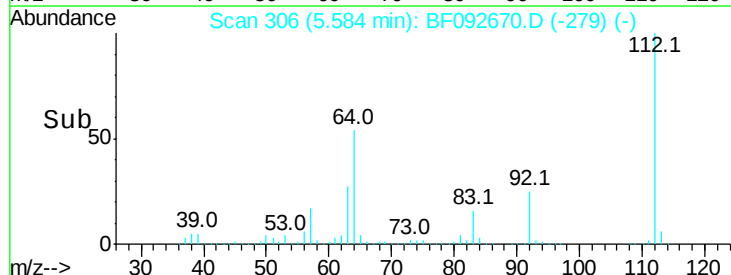
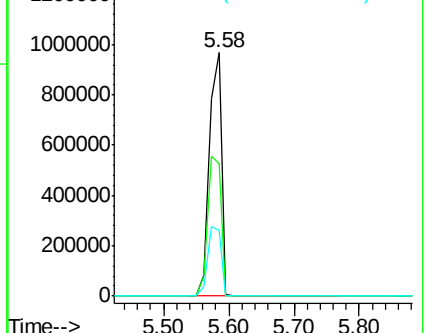
63 27.1 23.8 35.6

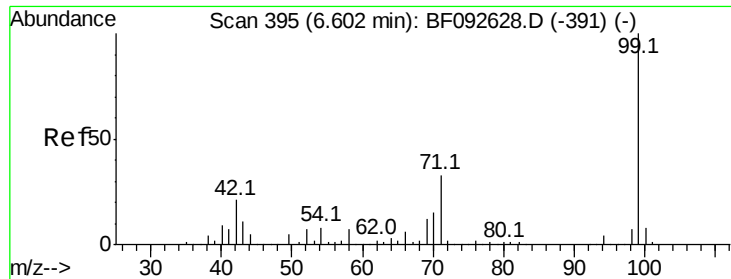


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 157.51 ng

RT: 6.61 min Scan# 396

Delta R.T. 0.01 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

Instrument :

BNA\_F

ClientSampleId :

COMPOSITE-1

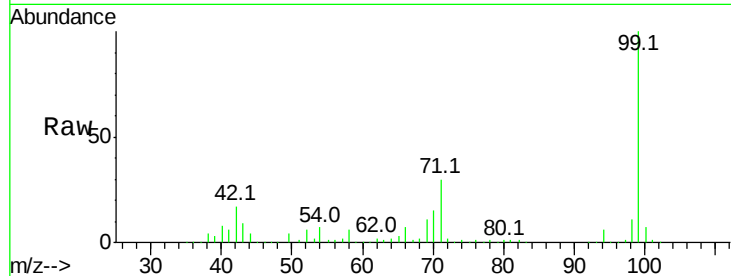
Tot Ion: 99 Resp: 1814528

Ion Ratio Lower Upper

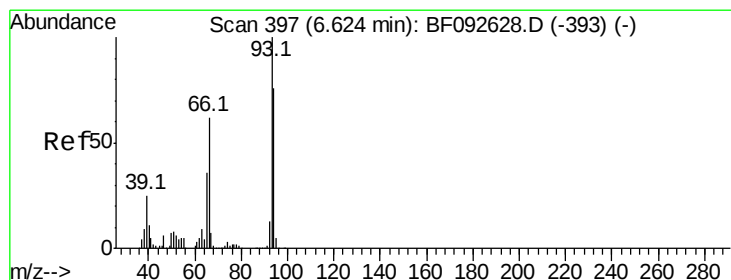
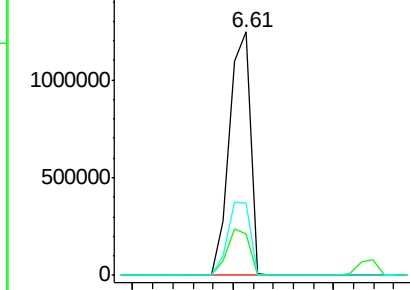
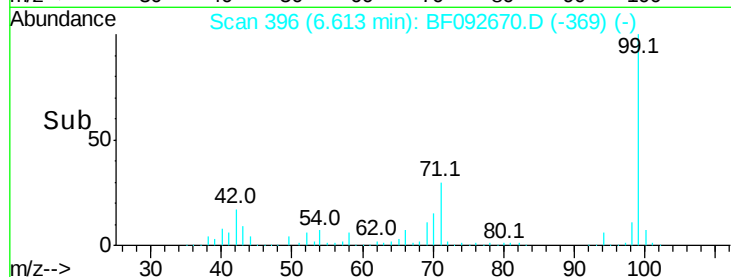
99 100

42 17.2 15.6 23.4

71 29.8 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



#10

Phenol

Concen: 11.58 ng

RT: 6.62 min Scan# 397

Delta R.T. 0.00 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

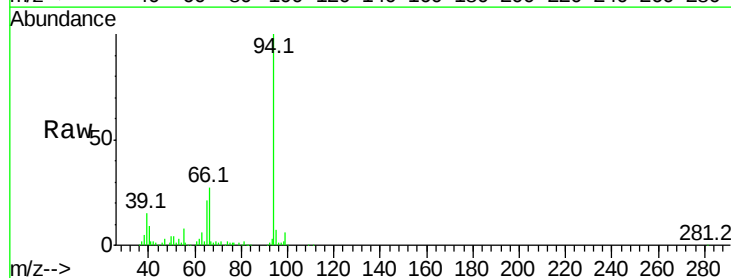
Tgt Ion: 94 Resp: 156015

Ion Ratio Lower Upper

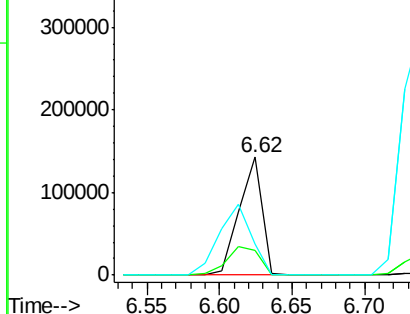
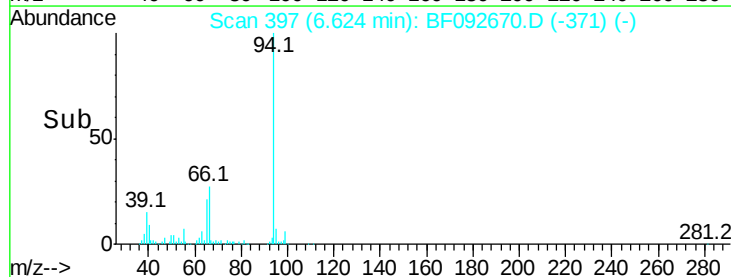
94 100

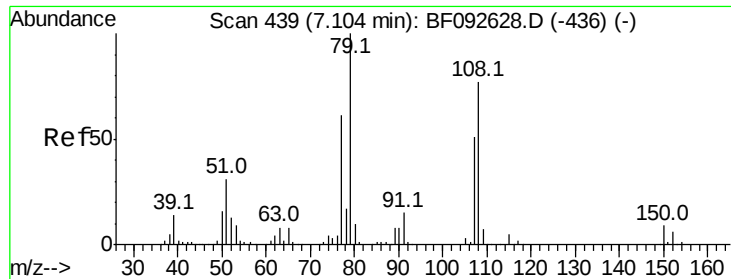
65 20.6 21.4 61.4#

66 26.5 44.0 84.0#



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.07 ng

RT: 7.12 min Scan# 440

Delta R.T. 0.01 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

Instrument :

BNA\_F

ClientSampleId :

COMPOSITE-1

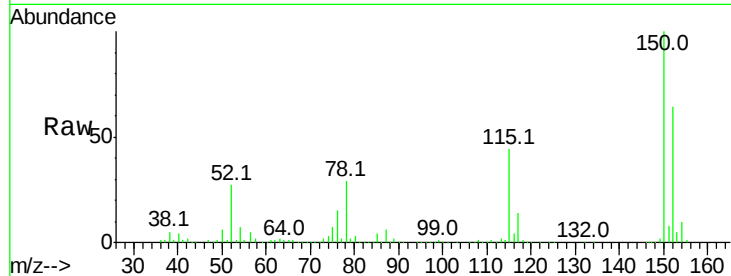
Tot Ion: 79 Resp: 17681

Ion Ratio Lower Upper

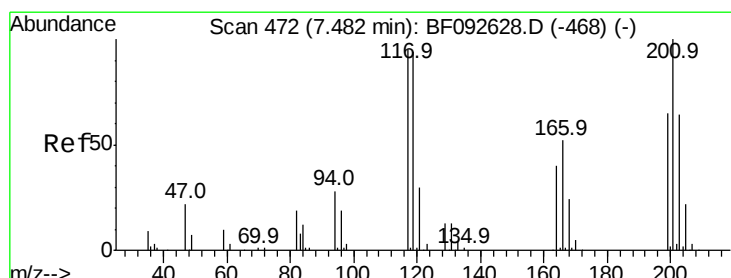
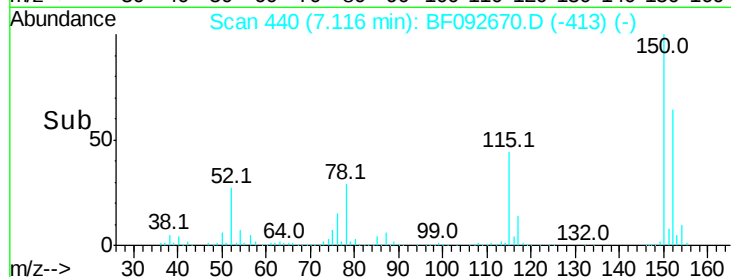
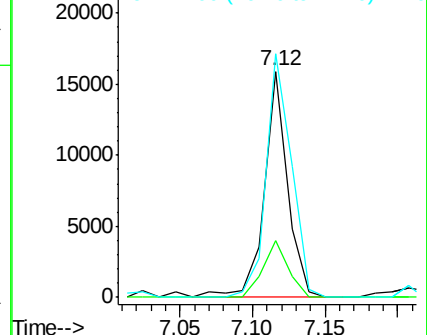
79 100

108 25.1 61.4 92.0#

77 107.8 50.9 76.3#



Abundance Ion 79.00 (78.70 to 79.70): BF0  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF0



#18

Hexachloroethane

Concen: 3.23 ng

RT: 7.54 min Scan# 477

Delta R.T. 0.06 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

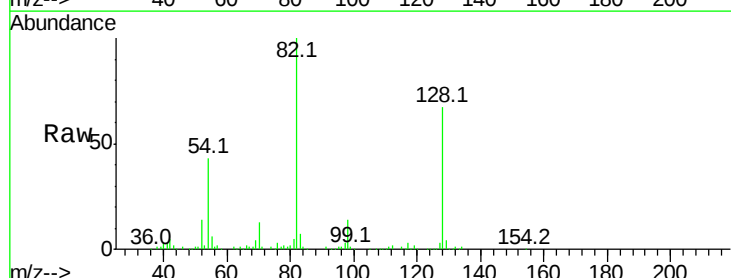
Tgt Ion: 117 Resp: 12896

Ion Ratio Lower Upper

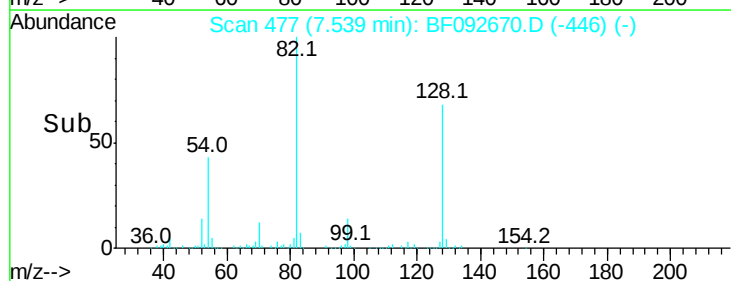
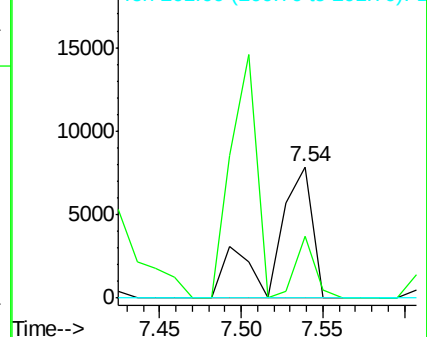
117 100

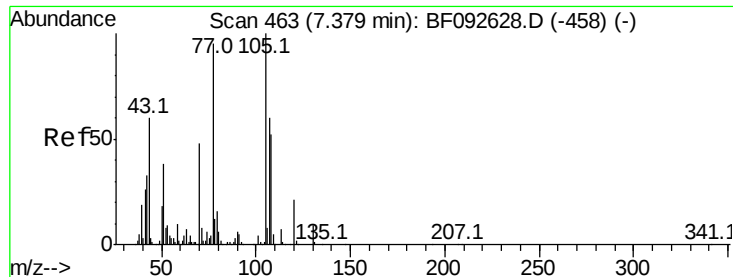
119 47.1 78.1 117.1#

201 0.0 78.6 117.8#



Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

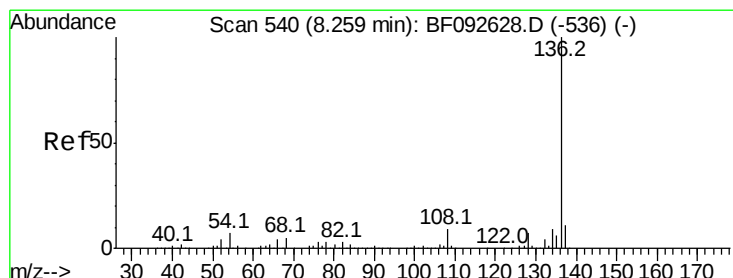
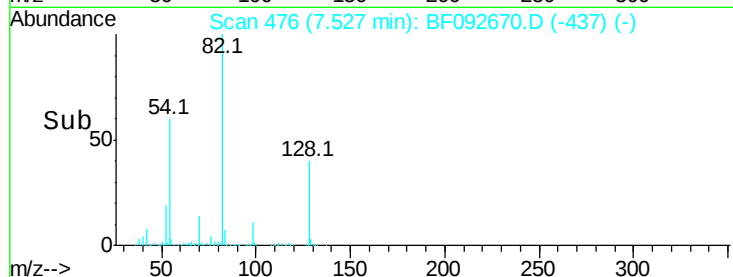
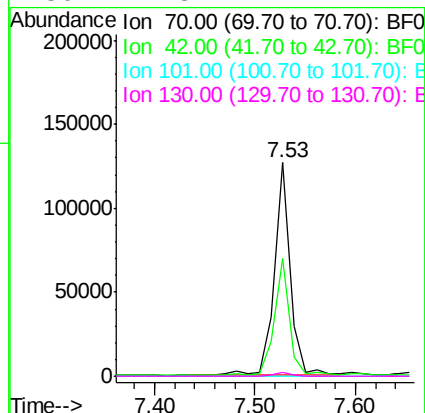
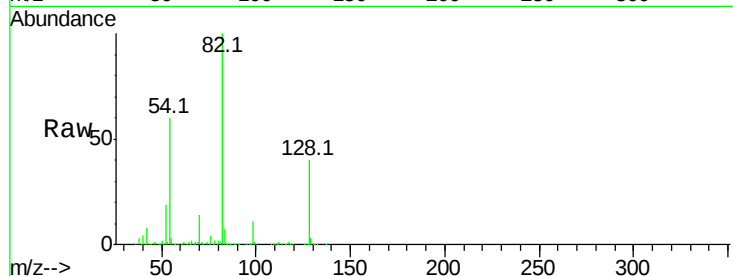




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.86 ng  
RT: 7.53 min Scan# 476  
Delta R.T. 0.15 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

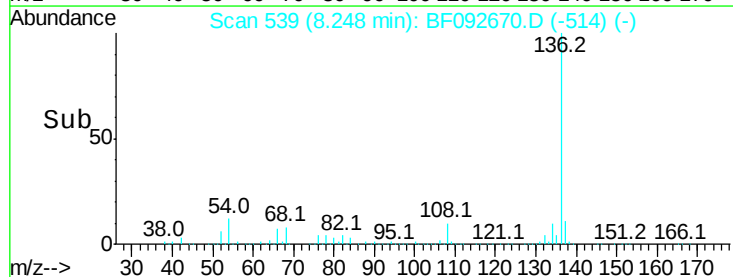
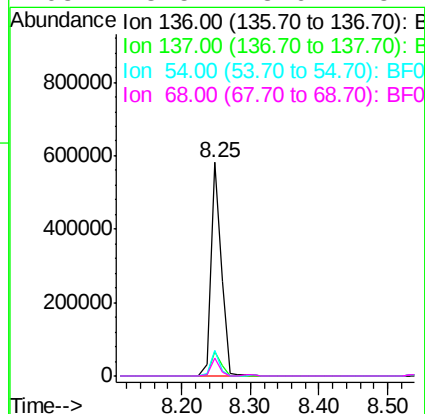
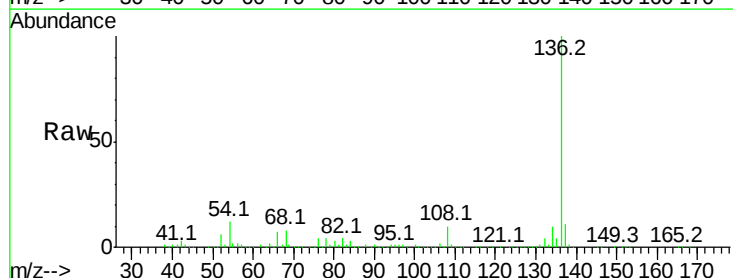
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSITE-1

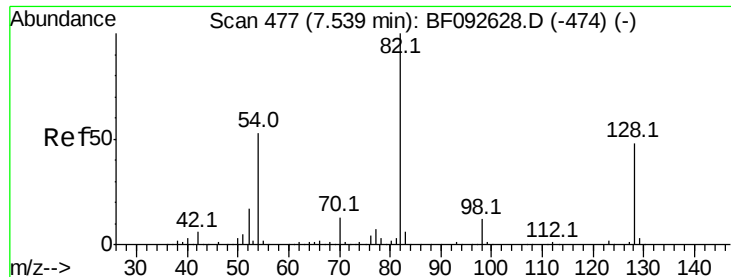
Tot Ion: 70 Resp: 138340  
Ion Ratio Lower Upper  
70 100  
42 55.4 49.4 74.0  
101 0.0 7.4 11.2#  
130 1.8 14.2 21.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.25 min Scan# 539  
Delta R.T. -0.01 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

Tgt Ion: 136 Resp: 612493  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.4 12.6  
54 12.1 4.5 6.7#  
68 8.5 3.6 5.4#

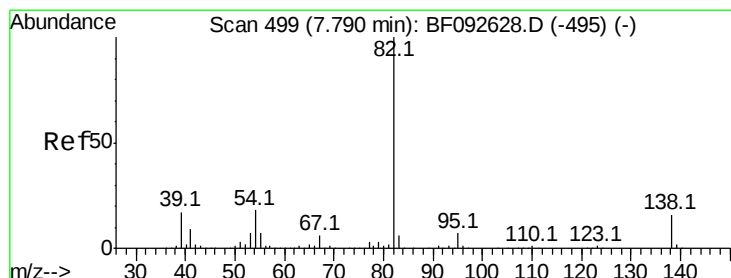
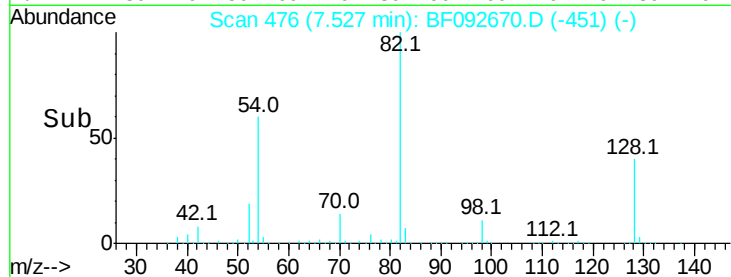
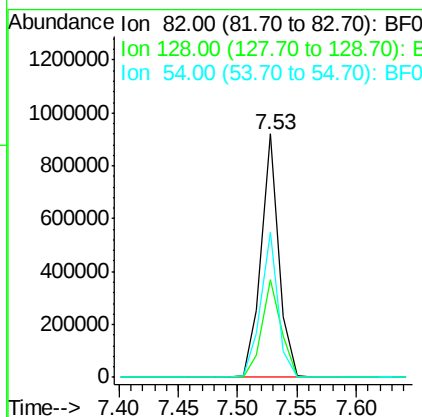
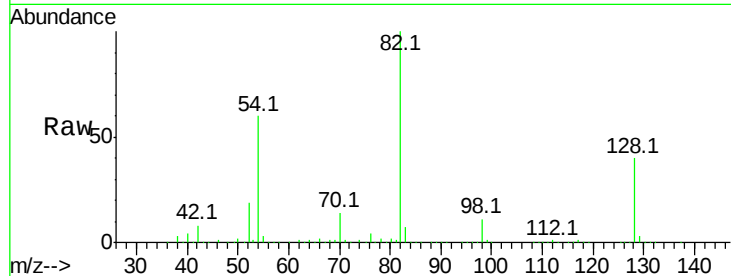




#23  
 Nitrobenzene-d5  
 Concen: 88.84 ng  
 RT: 7.53 min Scan# 476  
 Delta R.T. -0.01 min  
 Lab File: BF092670.D  
 Acq: 31 Jan 2017 9:01

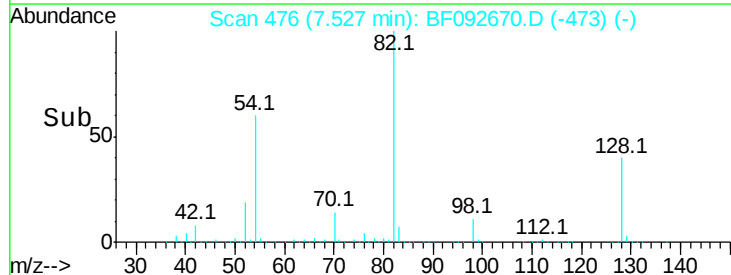
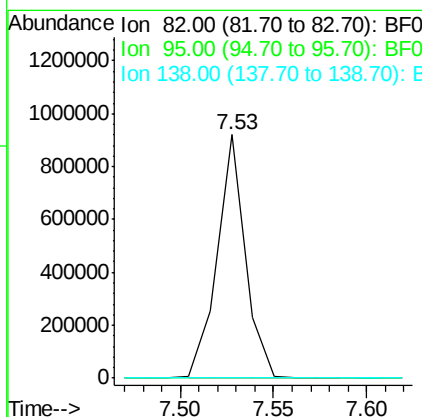
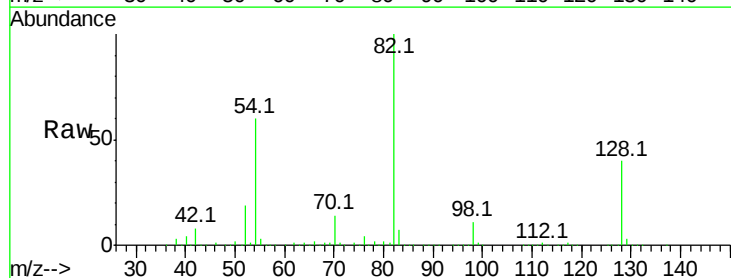
Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSITE-1

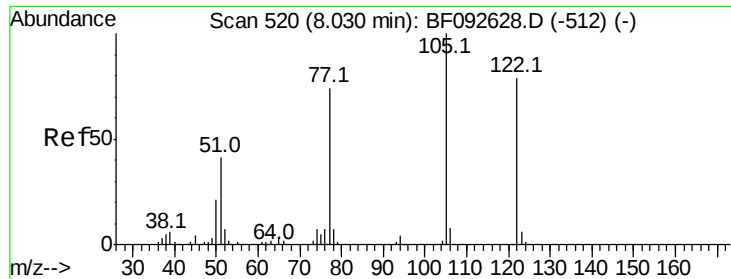
| Tot Ion   | 82    | Resp  | 977096 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.3  | 34.6  | 52.0   |
| 54        | 59.7  | 39.5  | 59.3#  |



#25  
 Isophorone  
 Concen: 47.02 ng  
 RT: 7.53 min Scan# 476  
 Delta R.T. -0.26 min  
 Lab File: BF092670.D  
 Acq: 31 Jan 2017 9:01

| Tgt Ion   | 82    | Resp  | 963766 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.2   | 5.6   | 8.4#   |
| 138       | 0.0   | 14.6  | 22.0#  |

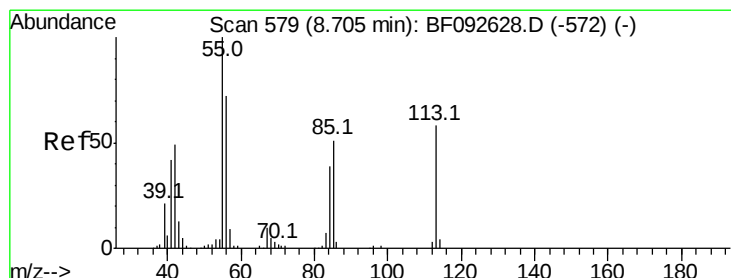
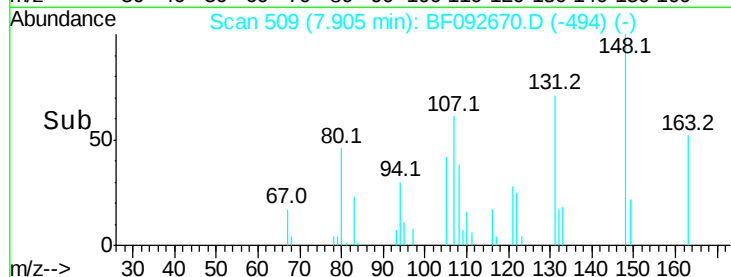
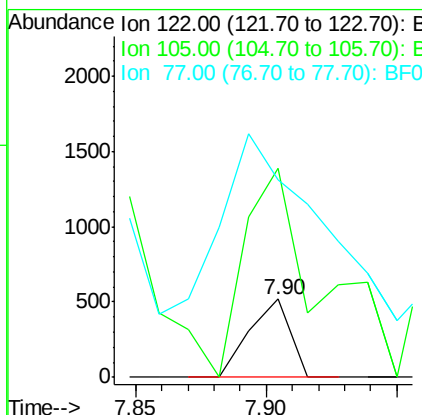
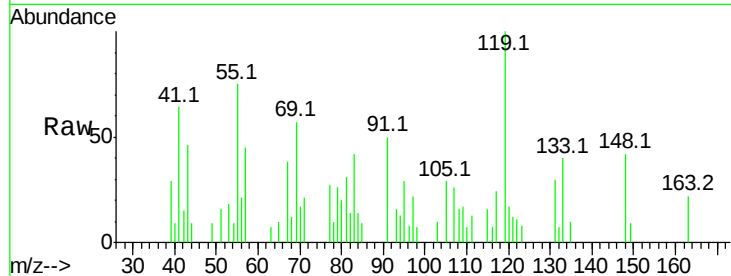




#32  
Benzoic acid  
Concen: 7.26 ng  
RT: 7.90 min Scan# 509  
Delta R.T. -0.13 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

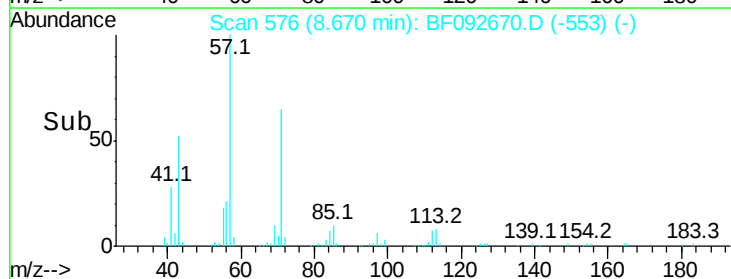
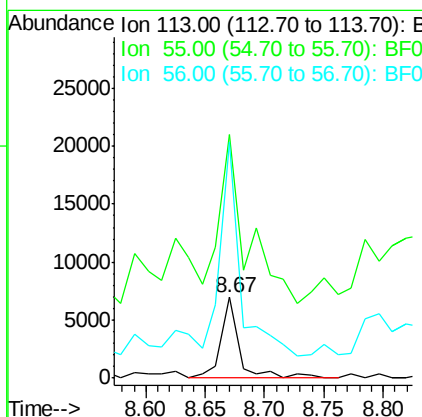
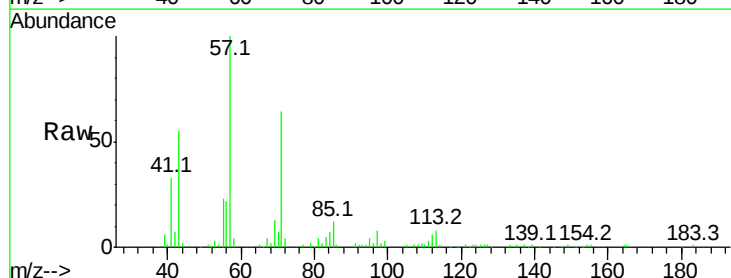
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSITE-1

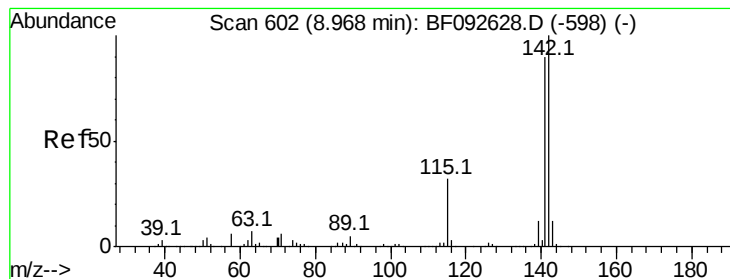
Tot Ion:122 Resp: 569  
Ion Ratio Lower Upper  
122 100  
105 268.7 107.2 147.2#  
77 253.1 74.5 114.5#



#35  
Caprolactam  
Concen: 2.65 ng  
RT: 8.67 min Scan# 576  
Delta R.T. -0.03 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

Tgt Ion:113 Resp: 7325  
Ion Ratio Lower Upper  
113 100  
55 301.9 119.2 159.2#  
56 292.7 83.8 123.8#





#37

2-Methylnaphthalene

Concen: 6.51 ng

RT: 8.97 min Scan# 602

Delta R.T. 0.00 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

Instrument :

BNA\_F

ClientSampleId :

COMPOSITE-1

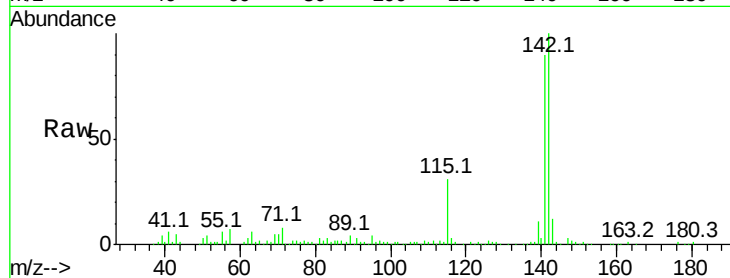
Tot Ion:142 Resp: 129793

Ion Ratio Lower Upper

142 100

141 89.9 71.0 106.6

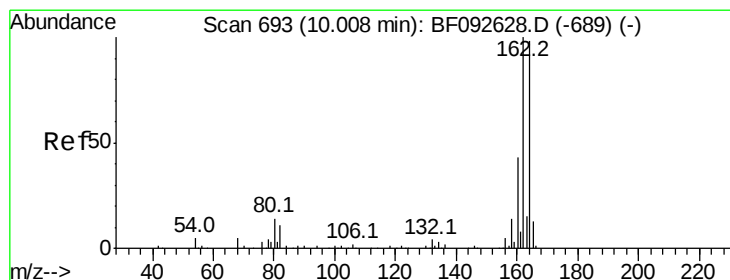
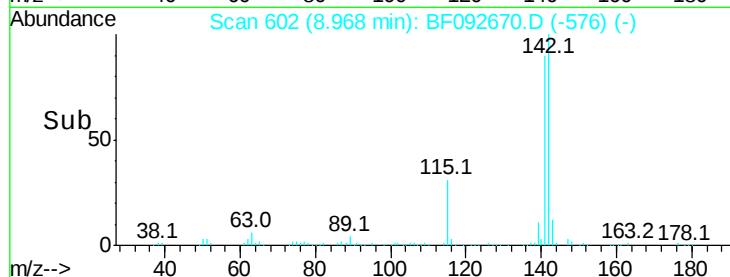
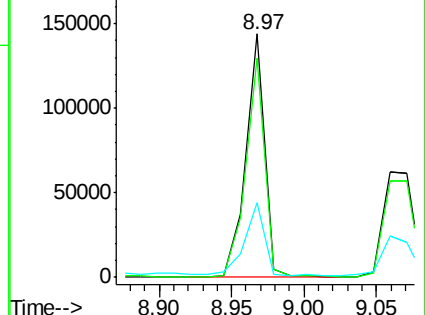
115 30.8 28.3 42.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.01 min Scan# 693

Delta R.T. 0.00 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

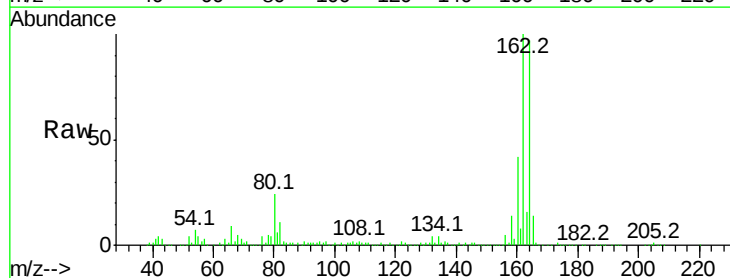
Tgt Ion:164 Resp: 288725

Ion Ratio Lower Upper

164 100

162 103.1 80.2 120.2

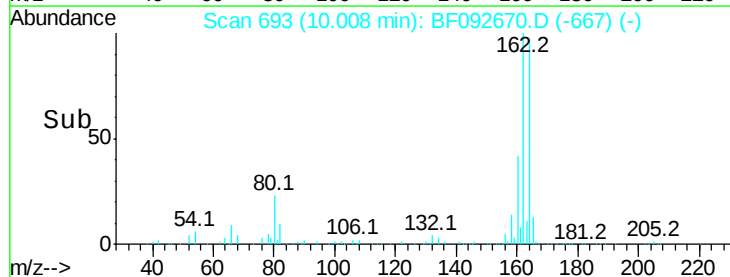
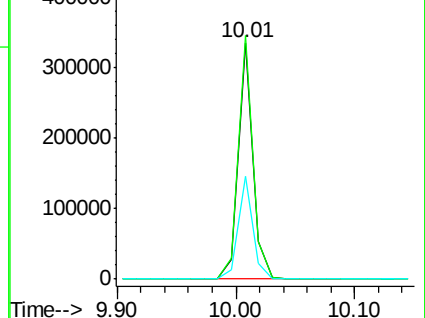
160 43.5 36.9 55.3

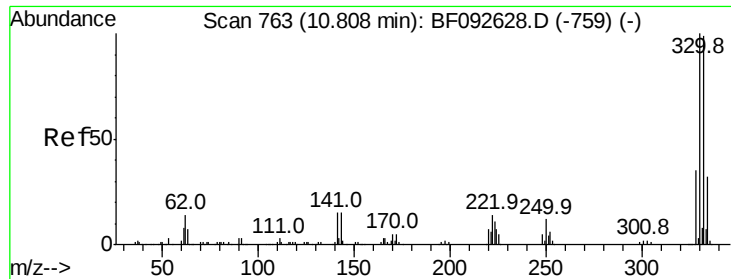


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

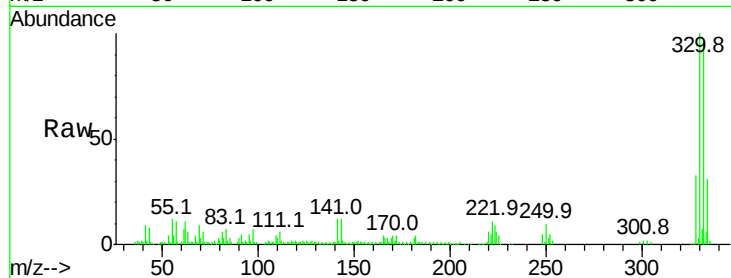




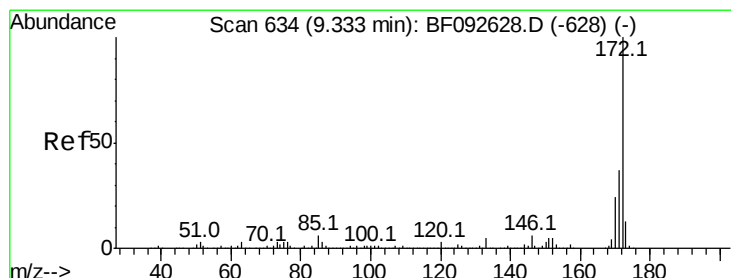
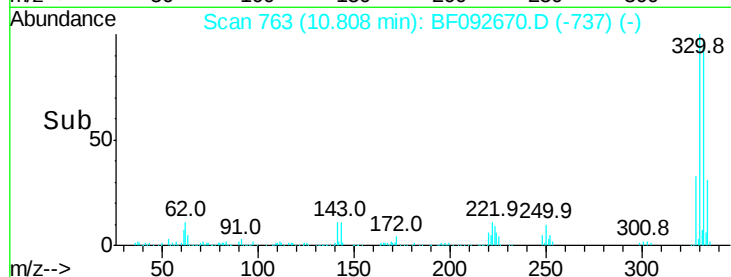
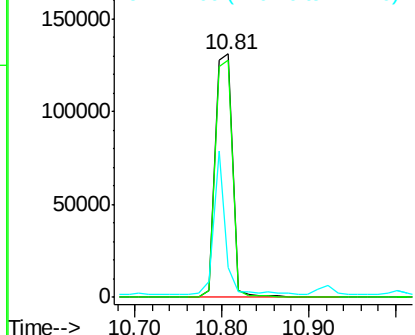
#41  
 2,4,6-Tribromophenol  
 Concen: 89.44 ng  
 RT: 10.81 min Scan# 763  
 Delta R.T. 0.00 min  
 Lab File: BF092670.D  
 Acq: 31 Jan 2017 9:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSITE-1

Tot Ion:330 Resp: 186773  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 77.4 116.2  
 141 39.1 34.1 51.1

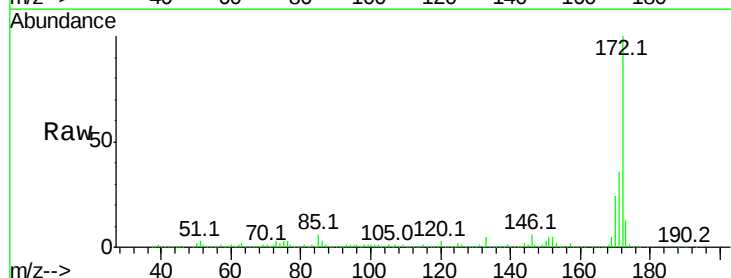


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

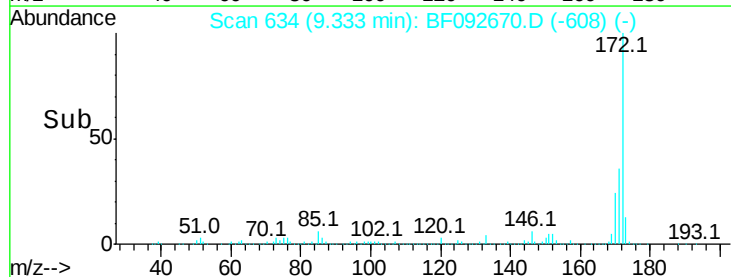
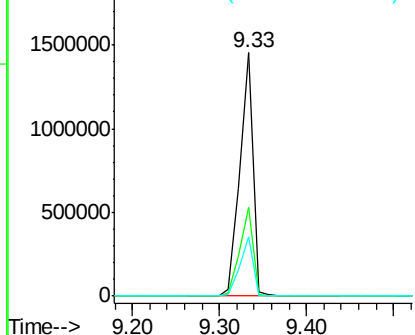


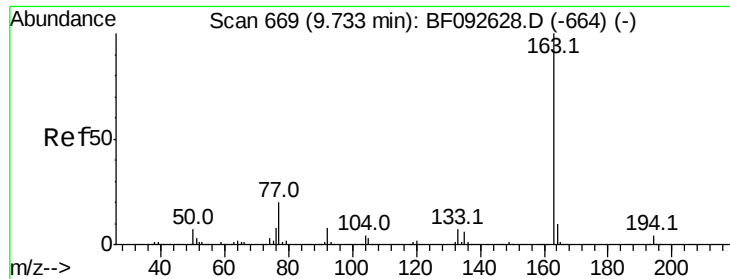
#44  
 2-Fluorobiphenyl  
 Concen: 94.19 ng  
 RT: 9.33 min Scan# 634  
 Delta R.T. 0.00 min  
 Lab File: BF092670.D  
 Acq: 31 Jan 2017 9:01

Tgt Ion:172 Resp: 1501050  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 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

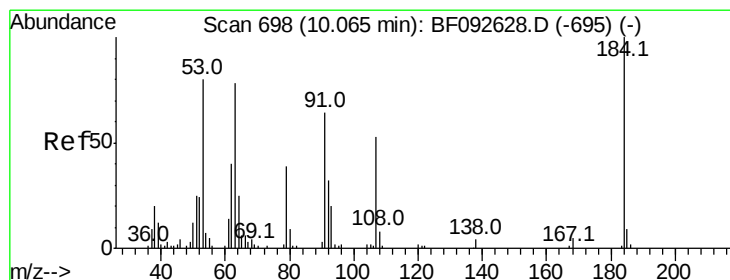
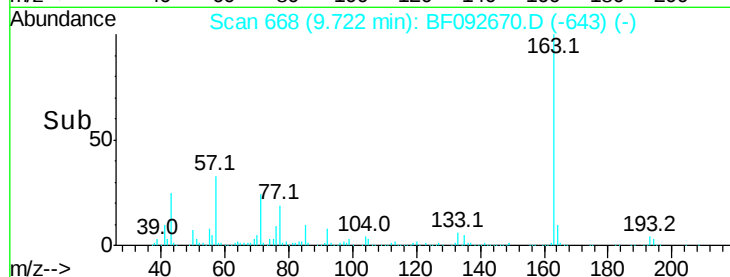
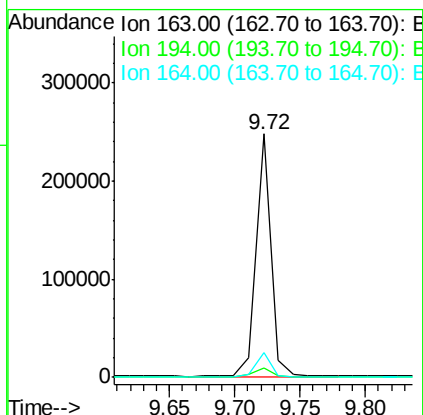
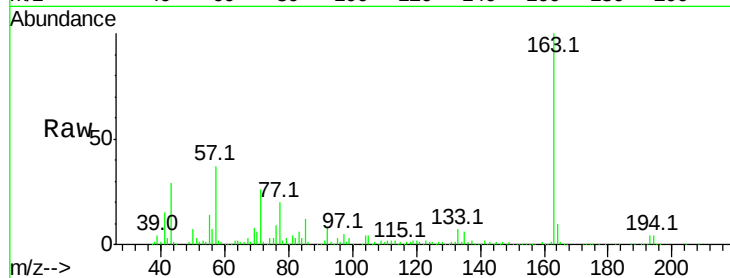




#49  
Dimethylphthalate  
Concen: 10.07 ng  
RT: 9.72 min Scan# 668  
Delta R.T. -0.01 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

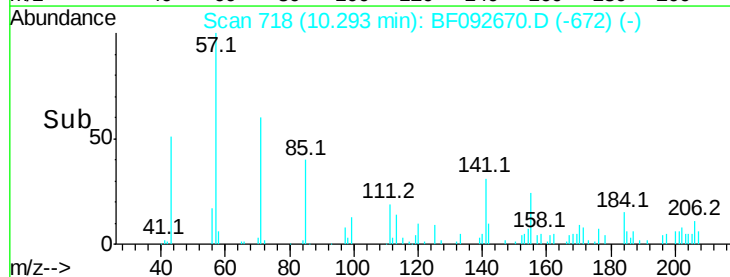
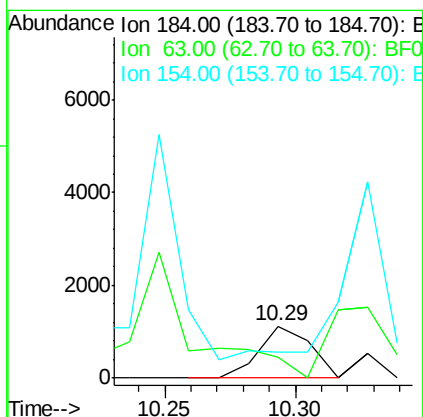
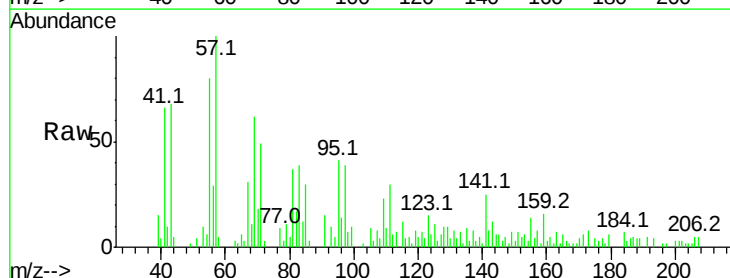
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSITE-1

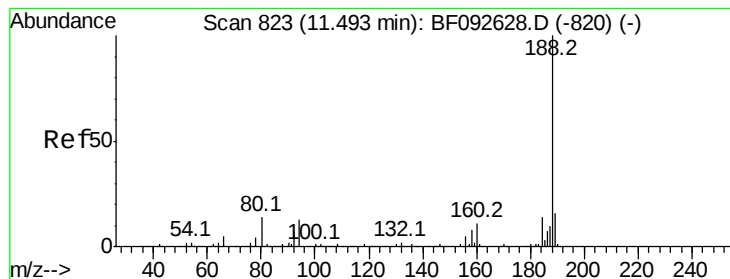
Tot Ion:163 Resp: 195888  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.0 4.4  
164 10.0 8.0 12.0



#53  
2,4-Dinitrophenol  
Concen: 5.41 ng  
RT: 10.29 min Scan# 718  
Delta R.T. 0.23 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

Tgt Ion:184 Resp: 1540  
Ion Ratio Lower Upper  
184 100  
63 40.3 28.4 42.6  
154 50.5 44.3 66.5





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.49 min Scan# 823

Delta R.T. 0.00 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

Instrument :

BNA\_F

ClientSampleId :

COMPOSITE-1

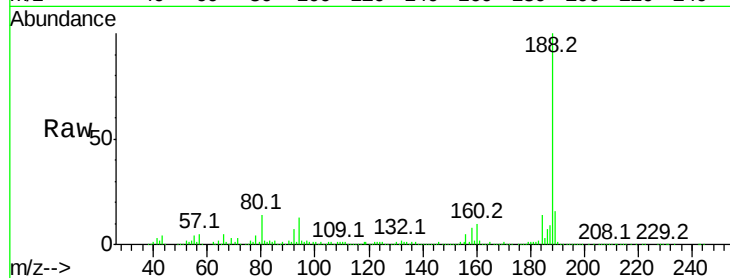
Tot Ion:188 Resp: 367600

Ion Ratio Lower Upper

188 100

94 12.6 10.0 15.0

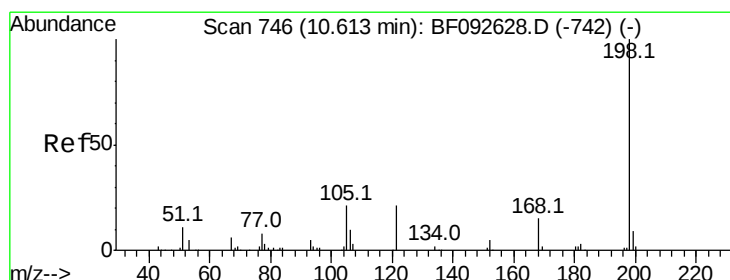
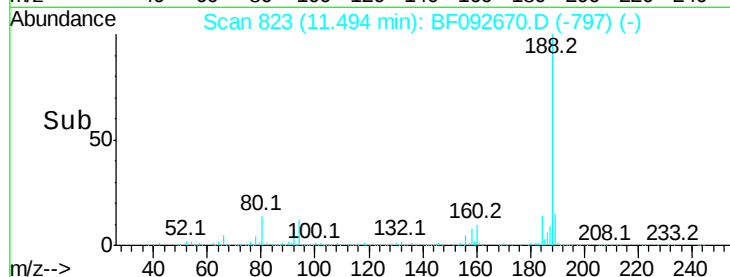
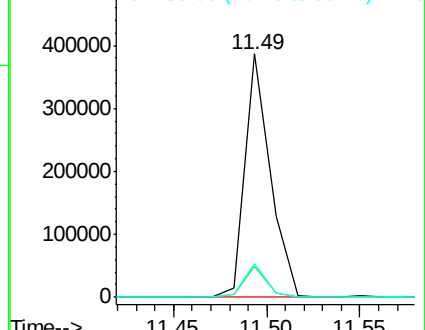
80 14.1 11.2 16.8



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.87 ng

RT: 10.69 min Scan# 753

Delta R.T. 0.08 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

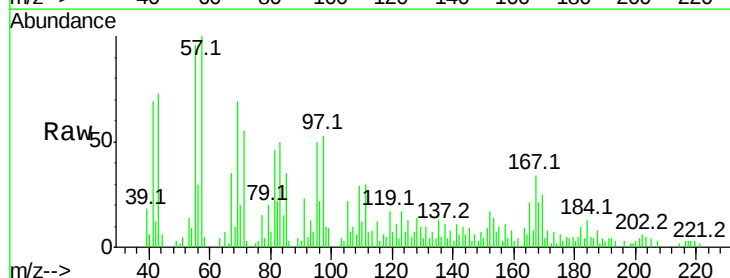
Tgt Ion:198 Resp: 466

Ion Ratio Lower Upper

198 100

51 233.6 6.7 46.7#

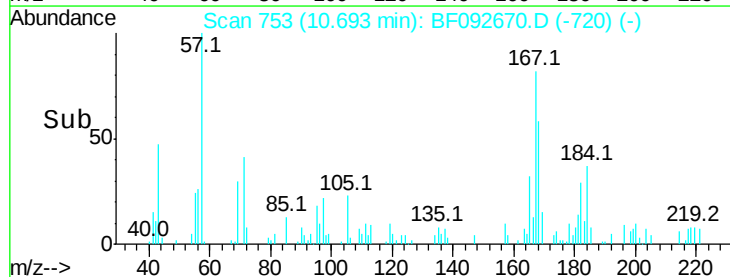
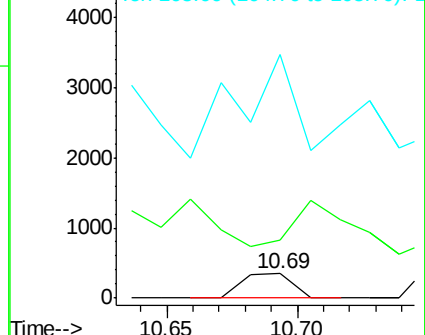
105 988.3 16.6 56.6#

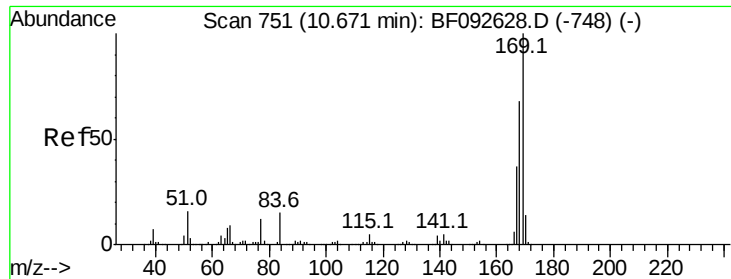


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

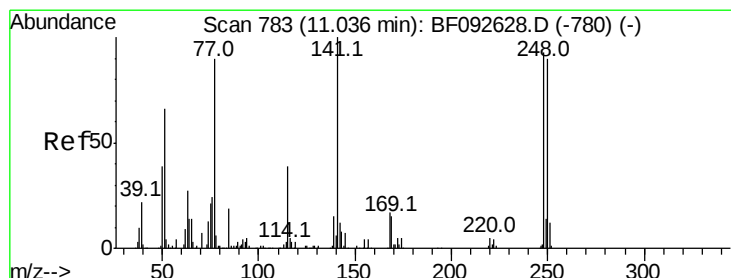
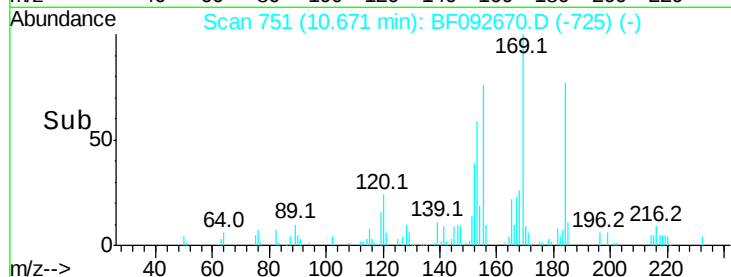
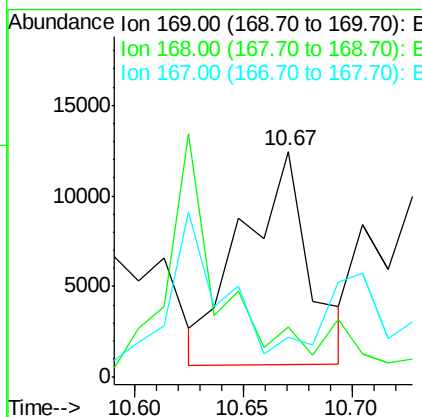
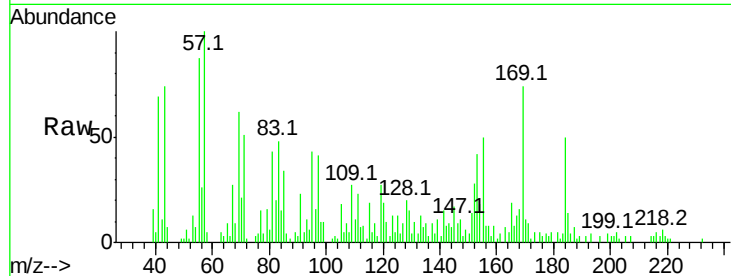




#65  
n-Nitrosodiphenylamine  
Concen: 2.14 ng  
RT: 10.67 min Scan# 751  
Delta R.T. 0.00 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

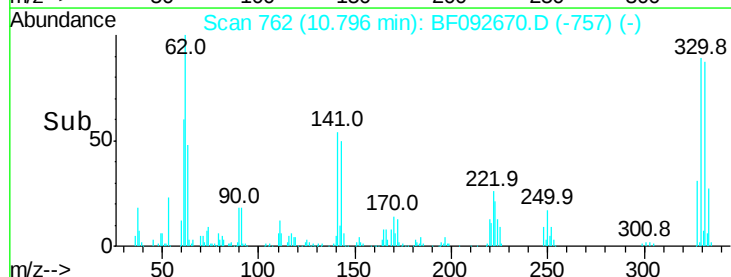
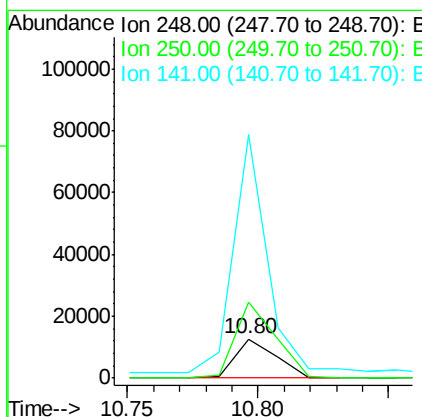
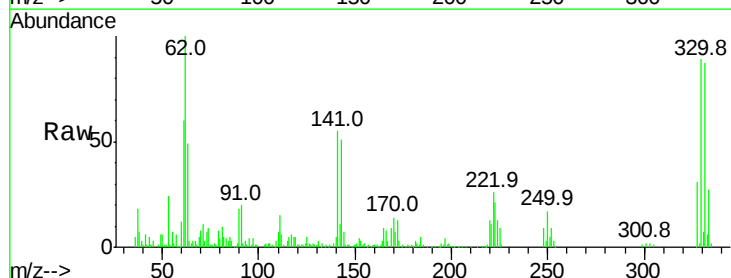
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSITE-1

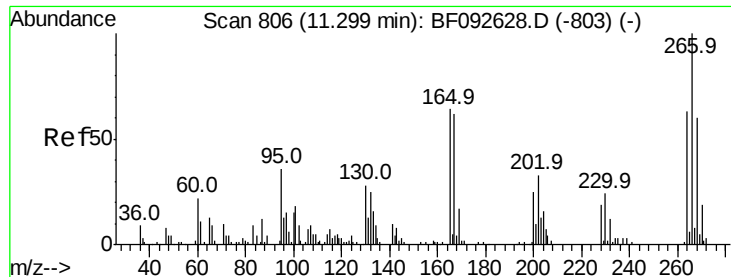
Tot Ion:169 Resp: 25149  
Ion Ratio Lower Upper  
169 100  
168 22.2 54.2 81.2#  
167 17.7 30.2 45.4#



#66  
4-Bromophenyl-phenylether  
Concen: 3.60 ng  
RT: 10.80 min Scan# 762  
Delta R.T. -0.24 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

Tgt Ion:248 Resp: 13807  
Ion Ratio Lower Upper  
248 100  
250 196.2 76.9 115.3#  
141 625.3 68.2 102.4#

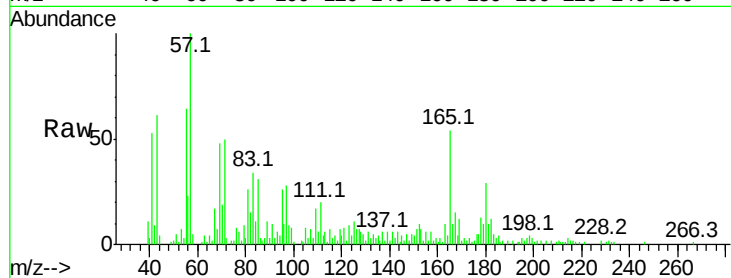




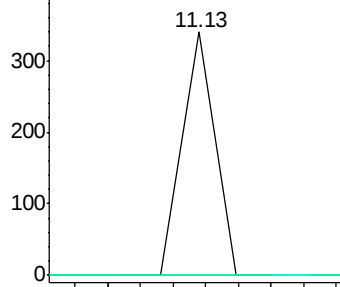
#69  
 Pentachlorophenol  
 Concen: 7.31 ng  
 RT: 11.13 min Scan# 791  
 Delta R.T. -0.17 min  
 Lab File: BF092670.D  
 Acq: 31 Jan 2017 9:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSITE-1

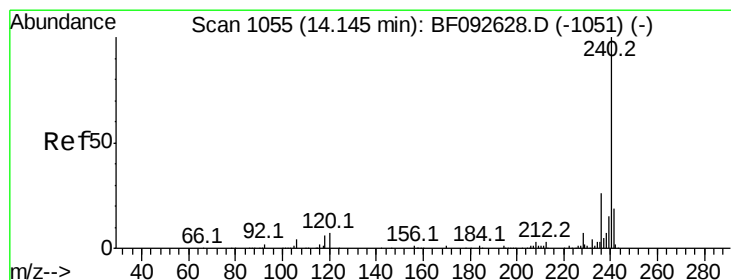
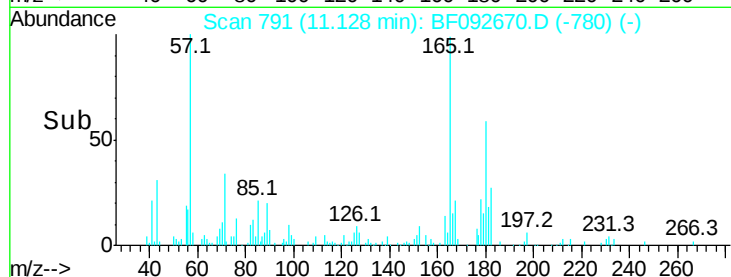
Tot Ion:266 Resp: 233  
 Ion Ratio Lower Upper  
 266 100  
 268 0.0 53.3 79.9#  
 264 0.0 50.3 75.5#



Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

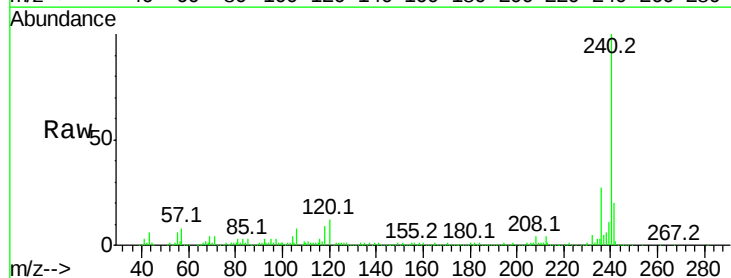


Time-->

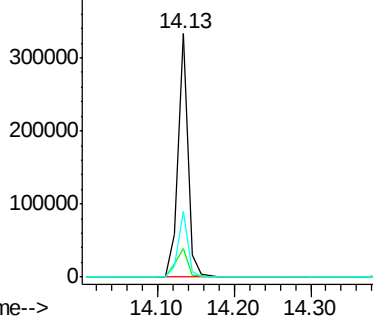


#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.13 min Scan# 1054  
 Delta R.T. -0.01 min  
 Lab File: BF092670.D  
 Acq: 31 Jan 2017 9:01

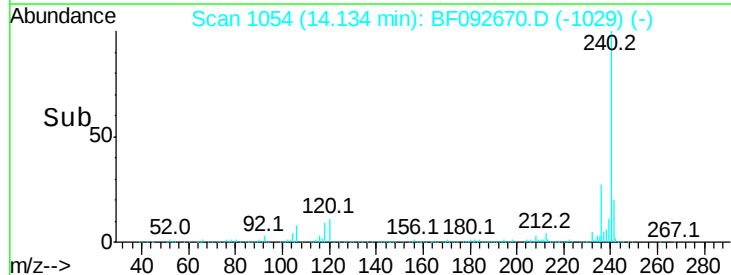
Tgt Ion:240 Resp: 296590  
 Ion Ratio Lower Upper  
 240 100  
 120 11.5 12.9 19.3#  
 236 26.7 20.9 31.3

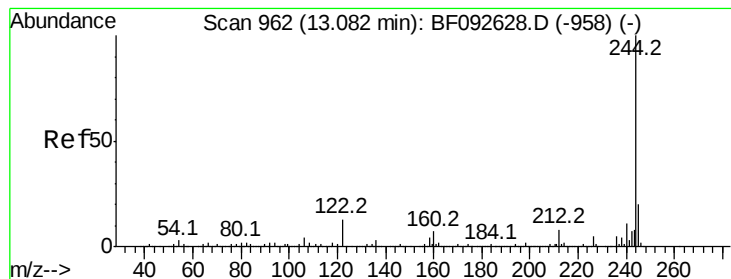


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E



Time-->





#78

Terphenyl-d14

Concen: 73.46 ng

RT: 13.08 min Scan# 962

Delta R.T. 0.00 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

Instrument :

BNA\_F

ClientSampleId :

COMPOSITE-1

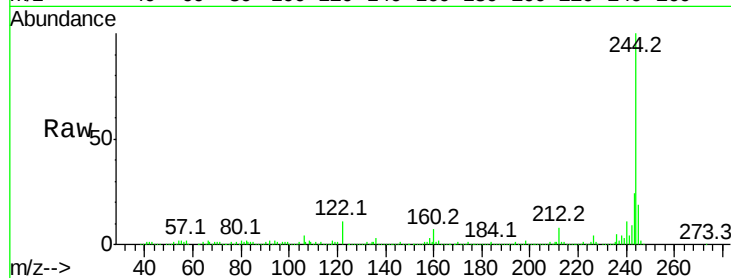
Tot Ion:244 Resp: 927203

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

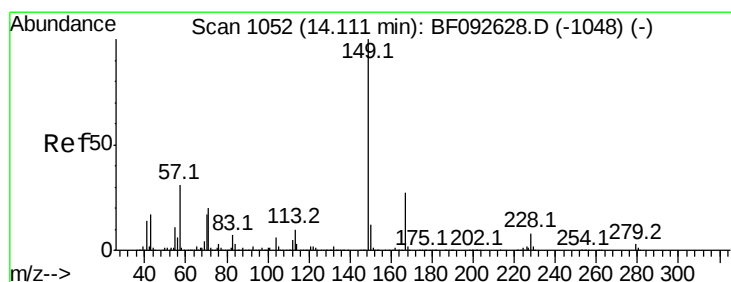
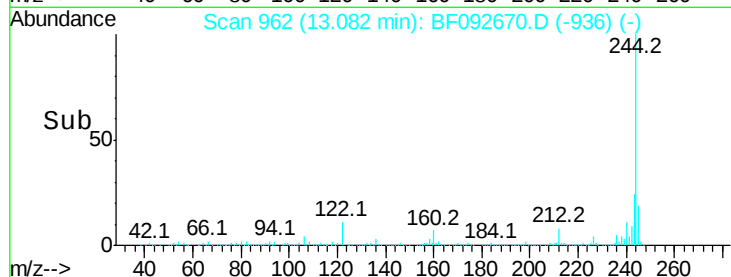
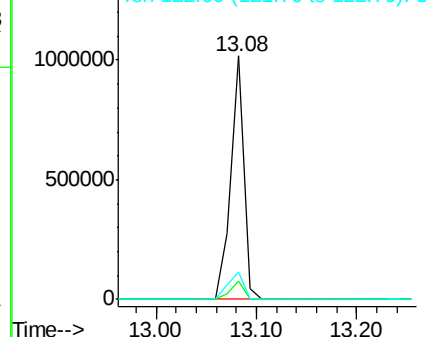
122 11.3 11.4 17.2#



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.07 ng

RT: 14.11 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF092670.D

Acq: 31 Jan 2017 9:01

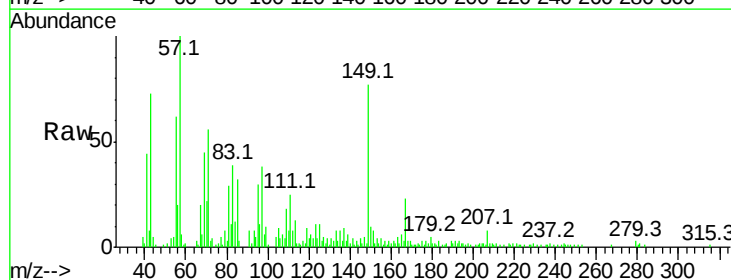
Tgt Ion:149 Resp: 25573

Ion Ratio Lower Upper

149 100

167 29.7 20.2 30.4

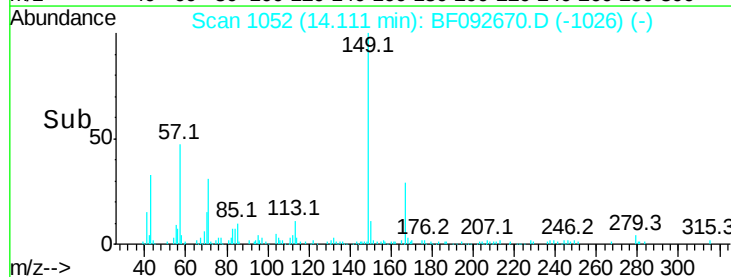
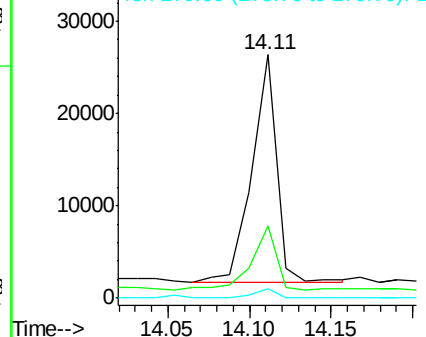
279 3.7 1.8 2.8#

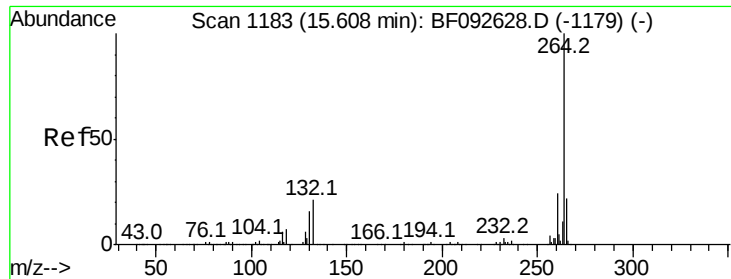


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.61 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: BF092670.D  
Acq: 31 Jan 2017 9:01

Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSITE-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.2  | 28.8  |
| 265     | 21.2  | 17.4  | 26.0  |

