

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072117\  
 Data File : BF096974.D  
 Acq On : 22 Jul 2017 6:57  
 Operator : SJ/JU  
 Sample : I4313-02  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M-COMB-9

Quant Time: Jul 24 04:13:18 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 18 13:33:22 2017  
 Response via : Initial Calibration

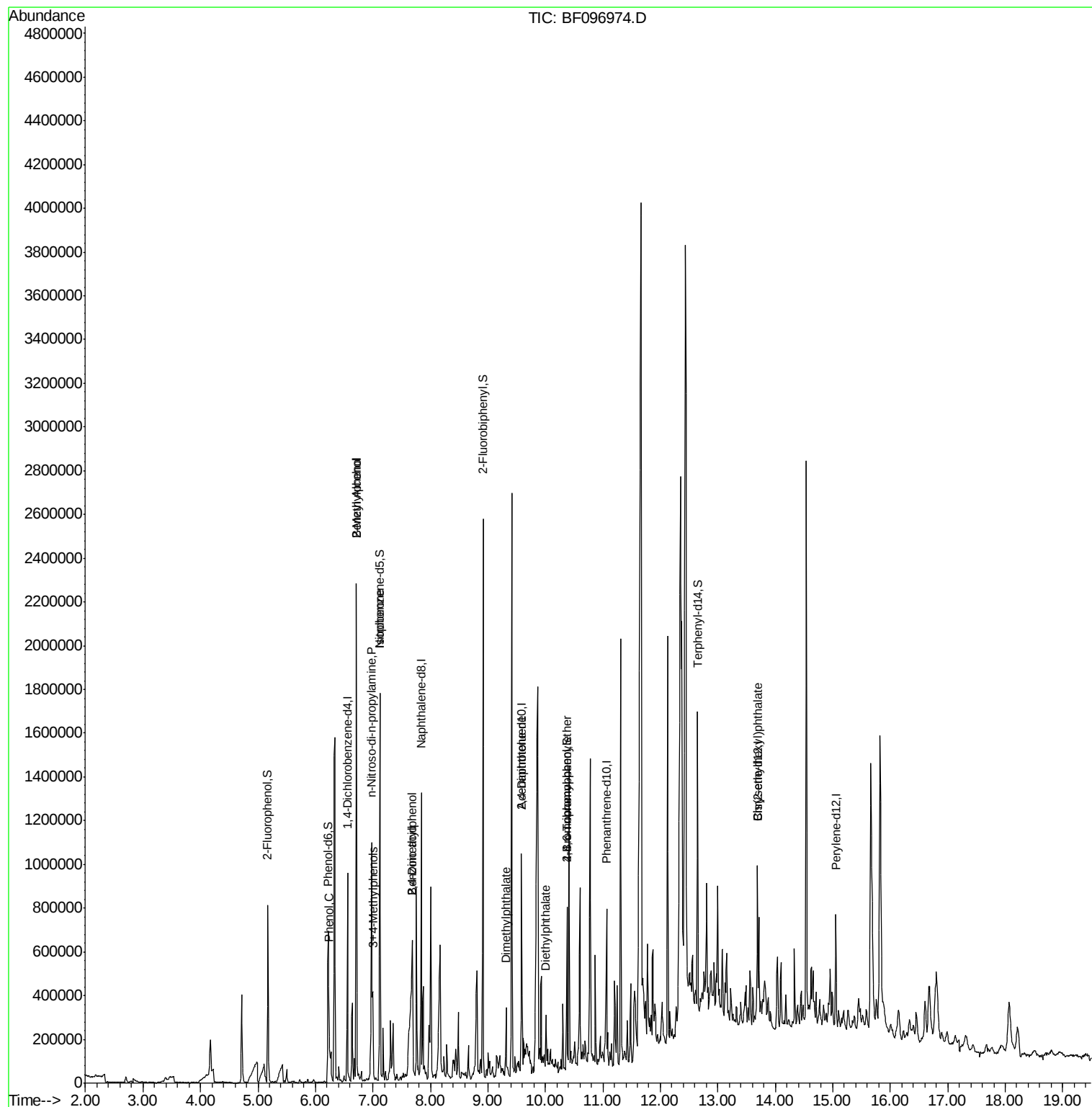
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.56  | 152  | 137741   | 20.00 | ng    | -0.04     |
| 21) Naphthalene-d8             | 7.84  | 136  | 564904   | 20.00 | ng    | -0.05     |
| 38) Acenaphthene-d10           | 9.59  | 164  | 186791   | 20.00 | ng    | -0.05     |
| 63) Phenanthrene-d10           | 11.06 | 188  | 244646   | 20.00 | ng    | -0.04     |
| 75) Chrysene-d12               | 13.69 | 240  | 222839   | 20.00 | ng    | -0.05     |
| 86) Perylene-d12               | 15.05 | 264  | 205524   | 20.00 | ng    | -0.05     |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 5.17  | 112  | 239665   | 26.16 | ng    | -0.03     |
| 7) Phenol-d6                   | 6.22  | 99   | 219024   | 19.92 | ng    | -0.03     |
| 23) Nitrobenzene-d5            | 7.12  | 82   | 503339   | 55.19 | ng    | -0.05     |
| 41) 2,4,6-Tribromophenol       | 10.37 | 330  | 77391    | 48.54 | ng    | -0.05     |
| 44) 2-Fluorobiphenyl           | 8.92  | 172  | 754746   | 63.84 | ng    | -0.05     |
| 78) Terphenyl-d14              | 12.65 | 244  | 450950   | 35.10 | ng    | -0.04     |
| Target Compounds               |       |      |          |       |       |           |
| 10) Phenol                     | 6.23  | 94   | 56384    | 4.54  | ng    | Qvalue 94 |
| 15) Benzyl Alcohol             | 6.71  | 79   | 91110    | 12.66 | ng    | 95        |
| 17) 2-Methylphenol             | 6.71  | 107  | 46604    | 6.06  | ng    | # 1       |
| 19) n-Nitroso-di-n-propylamine | 6.98  | 70   | 30426    | 4.59  | ng    | # 80      |
| 20) 3+4-Methylphenols          | 7.00  | 107  | 104219   | 11.18 | ng    | # 57      |
| 25) Isophorone                 | 7.12  | 82   | 487033   | 28.71 | ng    | # 67      |
| 27) 2,4-Dimethylphenol         | 7.69  | 122  | 180309   | 20.90 | ng    | # 6       |
| 32) Benzoic acid               | 7.69  | 122  | 180309   | 32.70 | ng    | 97        |
| 49) Dimethylphthalate          | 9.31  | 163  | 107460   | 7.64  | ng    | 98        |
| 56) 2,4-Dinitrotoluene         | 9.59  | 165  | 24209    | 6.18  | ng    | # 34      |
| 59) Diethylphthalate           | 10.01 | 149  | 75176    | 5.49  | ng    | 100       |
| 66) 4-Bromophenyl-phenvlether  | 10.37 | 248  | 5572     | 2.23  | ng    | # 1       |
| 83) Bis(2-ethylhexyl)phthalate | 13.69 | 149  | 30153    | 2.58  | ng    | 95        |

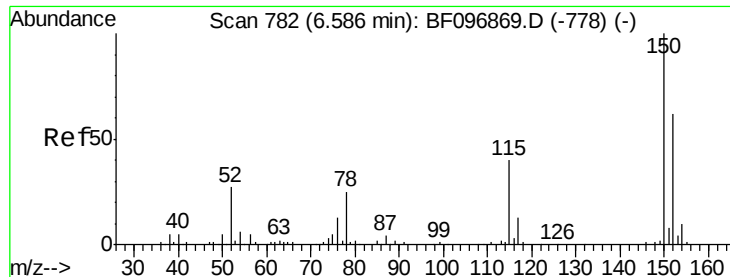
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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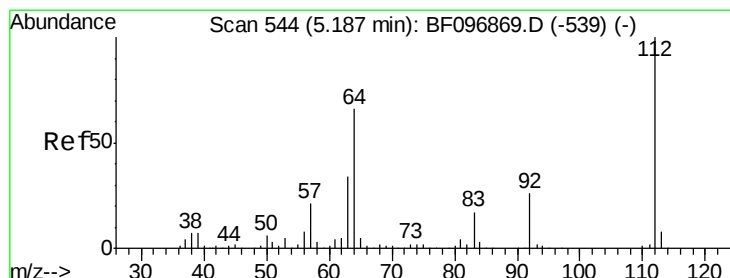
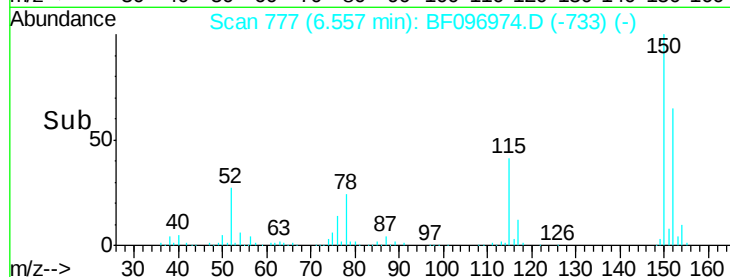
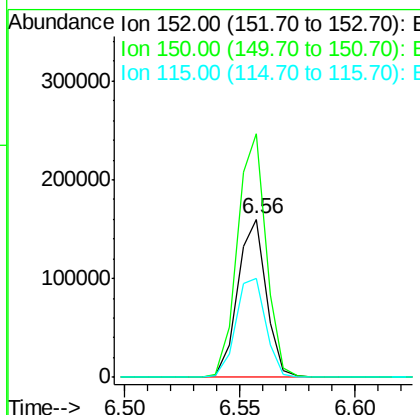
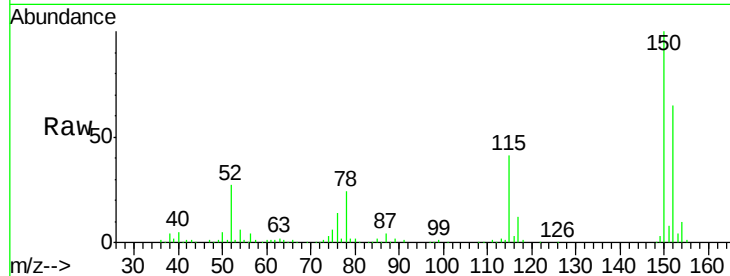


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.56 min Scan# 777  
Delta R.T. -0.04 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

Instrument :  
BNA\_F  
ClientSampleId :  
M-COMB-9

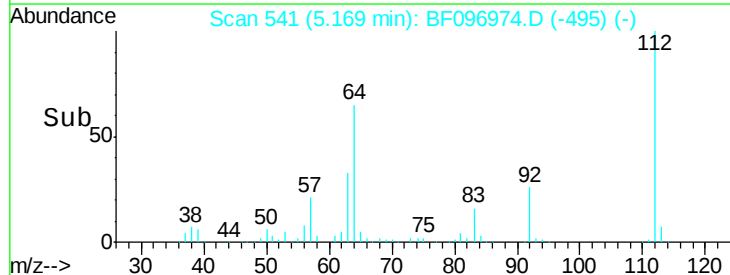
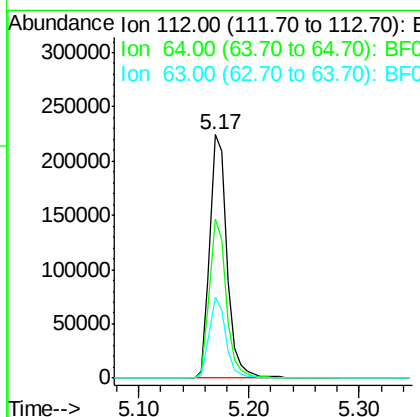
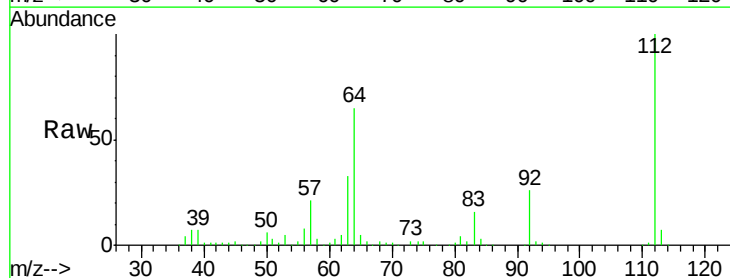
Tot Ion:152 Resp: 137741  
Ion Ratio Lower Upper  
152 100  
150 153.9 126.2 189.2  
115 62.6 52.2 78.2

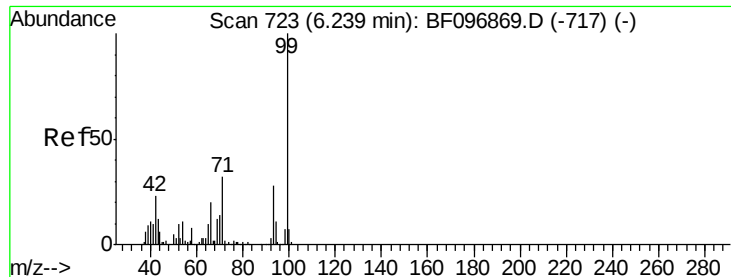


#5

2-Fluorophenol  
Concen: 26.16 ng  
RT: 5.17 min Scan# 541  
Delta R.T. -0.03 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

Tgt Ion:112 Resp: 239665  
Ion Ratio Lower Upper  
112 100  
64 65.4 46.0 69.0  
63 33.3 23.4 35.0





#7

Phenol-d6

Concen: 19.92 ng

RT: 6.22 min Scan# 720

Delta R.T. -0.03 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

Instrument :

BNA\_F

ClientSampleId :

M-COMB-9

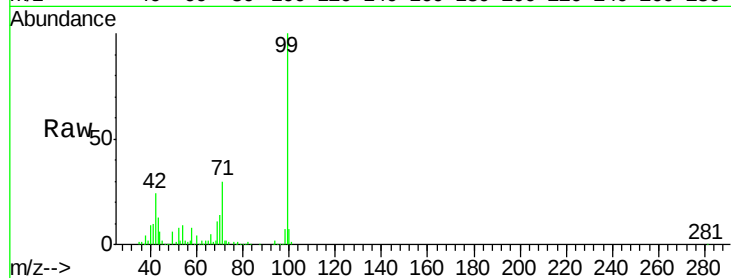
Tot Ion: 99 Resp: 219024

Ion Ratio Lower Upper

99 100

42 23.5 13.5 20.3#

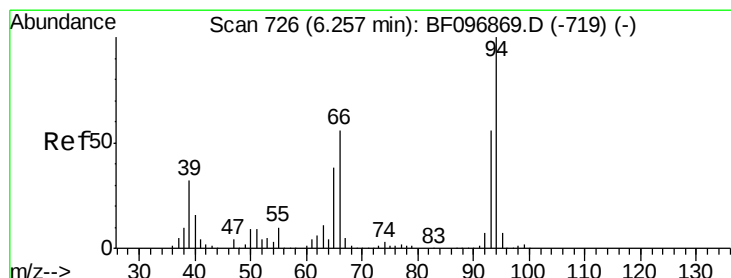
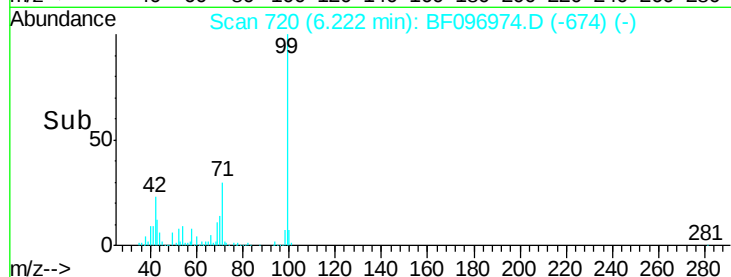
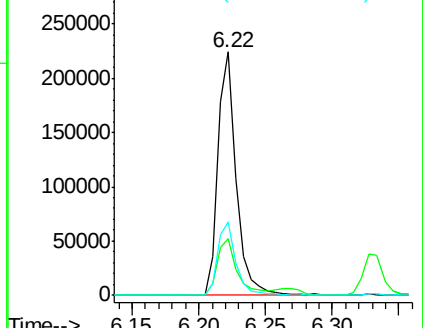
71 30.3 24.5 36.7



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: 4.54 ng

RT: 6.23 min Scan# 722

Delta R.T. -0.04 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

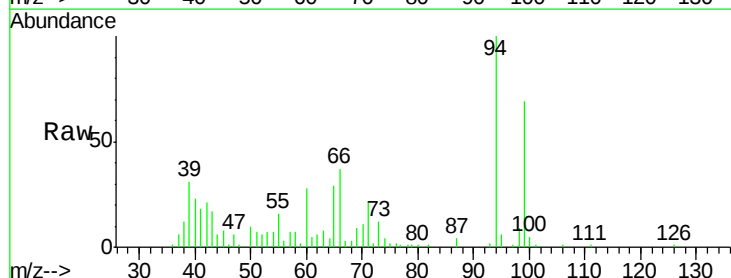
Tgt Ion: 94 Resp: 56384

Ion Ratio Lower Upper

94 100

65 29.2 9.9 49.9

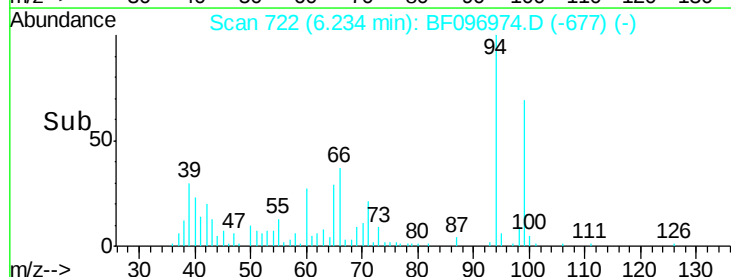
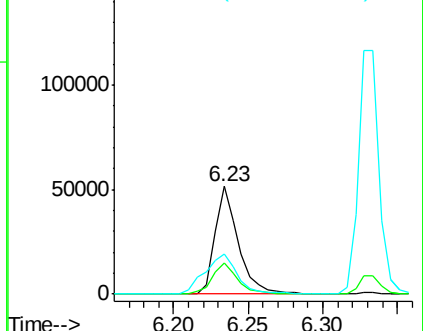
66 37.1 23.1 63.1

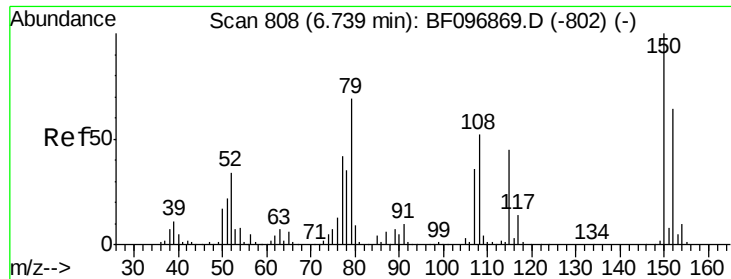


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

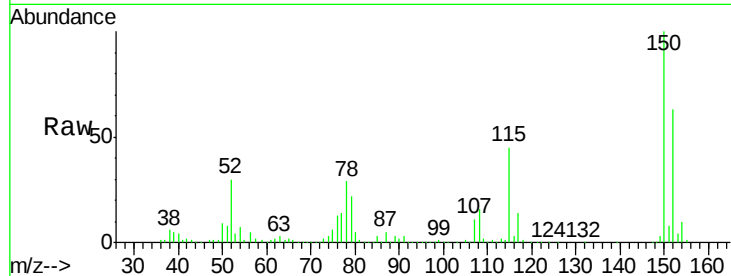




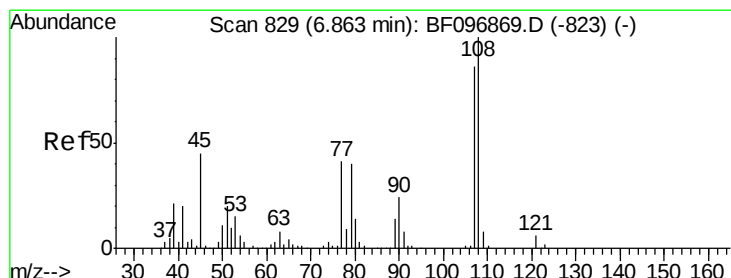
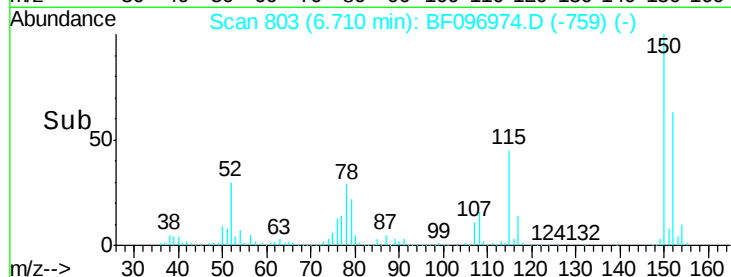
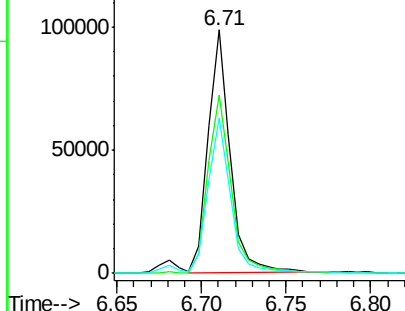
#15  
Benzyl Alcohol  
Concen: 12.66 ng  
RT: 6.71 min Scan# 803  
Delta R.T. -0.04 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

Instrument :  
BNA\_F  
ClientSampled :  
M-COMB-9

Tot Ion: 79 Resp: 91110  
Ion Ratio Lower Upper  
79 100  
108 73.5 63.4 95.0  
77 63.6 49.2 73.8

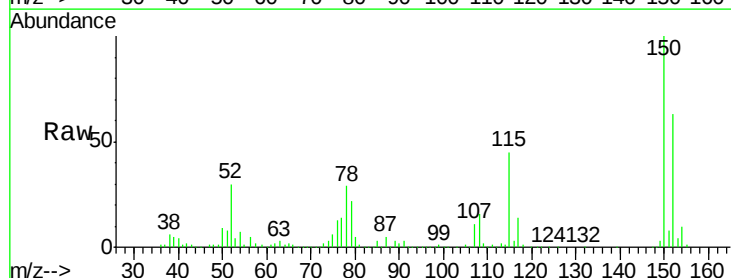


Abundance Ion 79.00 (78.70 to 79.70): BF0  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF0

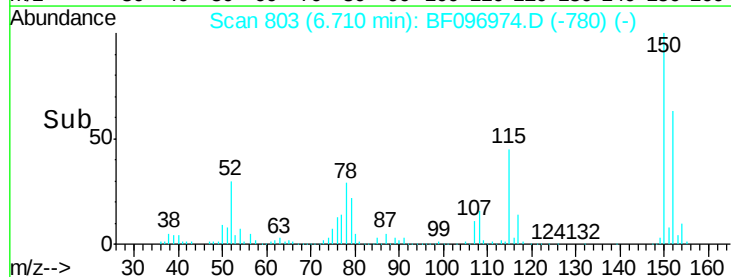
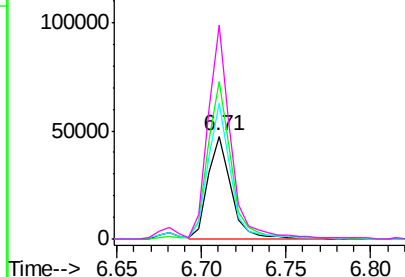


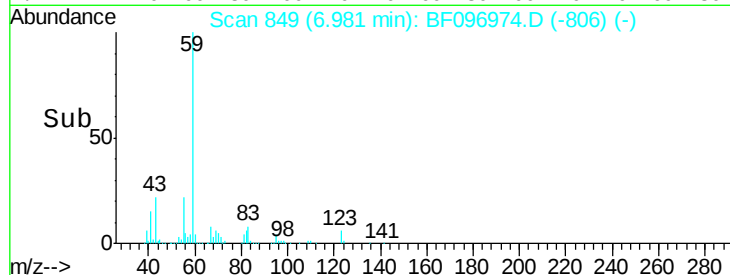
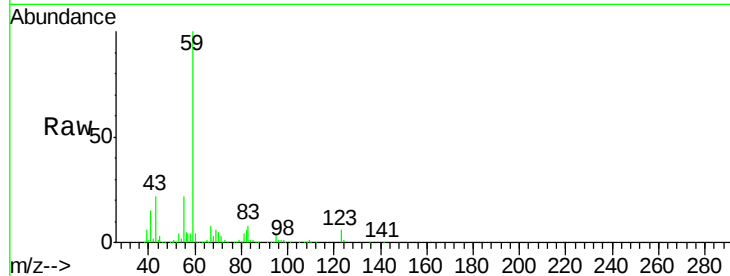
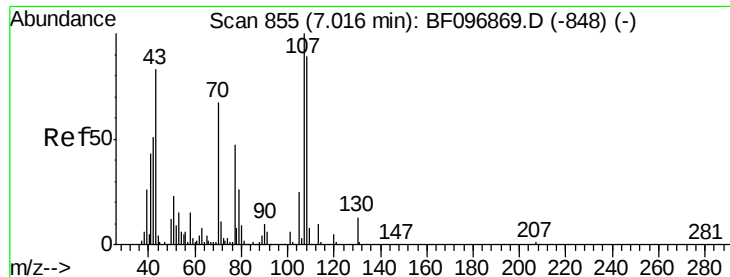
#17  
2-Methylphenol  
Concen: 6.06 ng  
RT: 6.71 min Scan# 803  
Delta R.T. -0.16 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

Tgt Ion: 107 Resp: 46604  
Ion Ratio Lower Upper  
107 100  
108 153.0 93.4 140.0#  
77 132.4 35.8 53.6#  
79 208.2 34.8 52.2#



Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF0  
Ion 79.00 (78.70 to 79.70): BF0

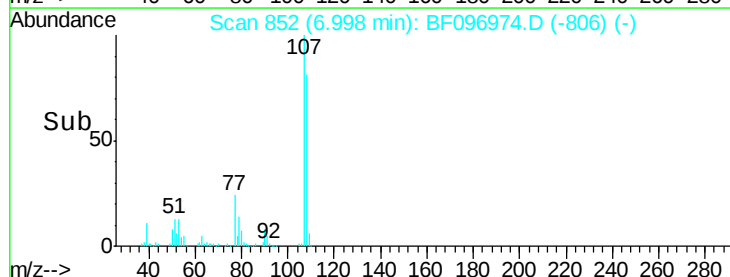
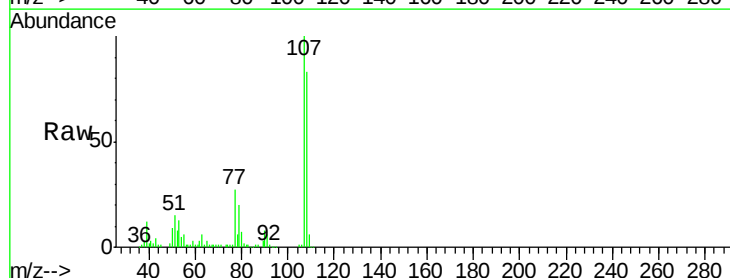
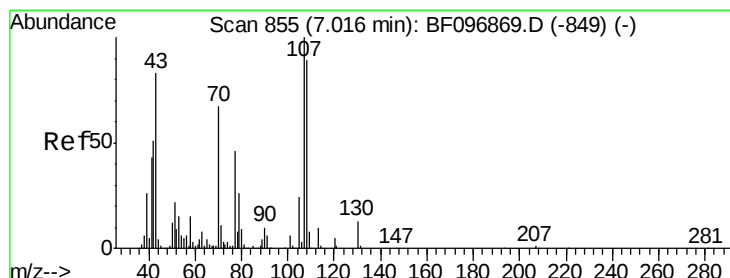
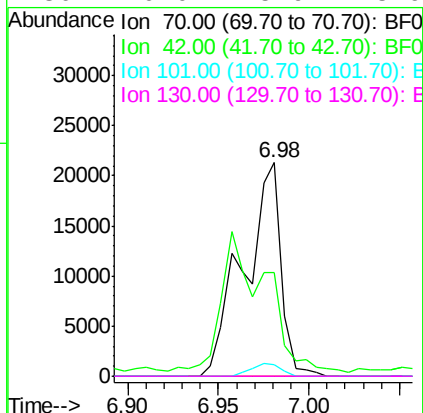




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.59 ng  
RT: 6.98 min Scan# 849  
Delta R.T. -0.05 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

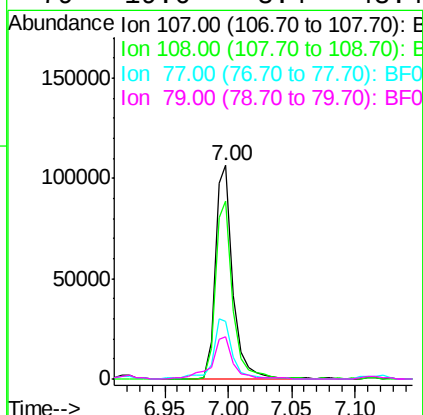
Instrument :  
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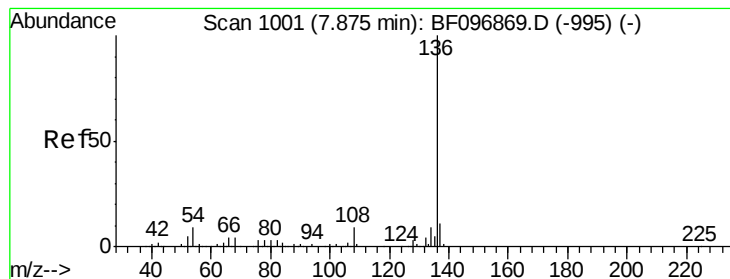
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 48.5  | 47.2  | 70.8  |
| 101     | 5.5   | 7.2   | 10.8# |
| 130     | 0.0   | 15.9  | 23.9# |



#20  
3+4-Methylphenols  
Concen: 11.18 ng  
RT: 7.00 min Scan# 852  
Delta R.T. -0.03 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 107     | 100   |       |        |
| 108     | 83.2  | 71.0  | 111.0  |
| 77      | 27.0  | 90.5  | 130.5# |
| 79      | 19.6  | 8.4   | 48.4   |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.84 min Scan# 995

Delta R.T. -0.05 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

Instrument :

BNA\_F

ClientSampleId :

M-COMB-9

Tot Ion:136 Resp: 564904

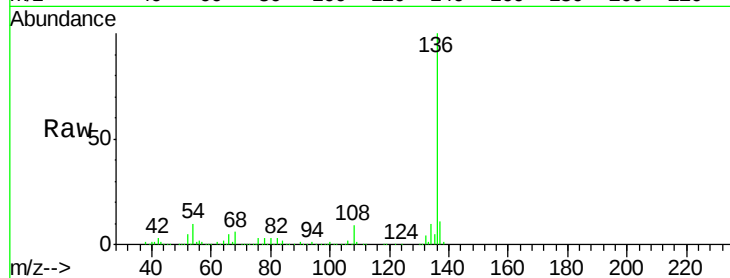
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 10.4 4.9 7.3#

68 6.3 4.1 6.1#

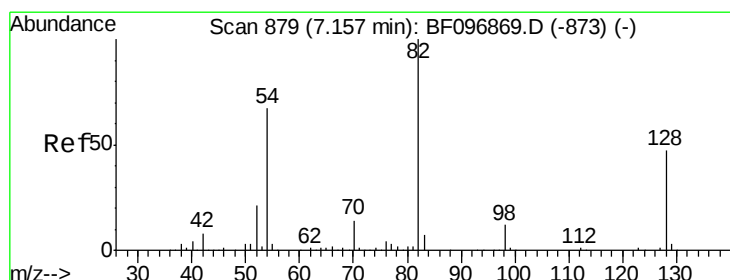
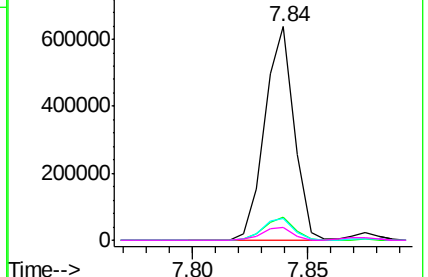
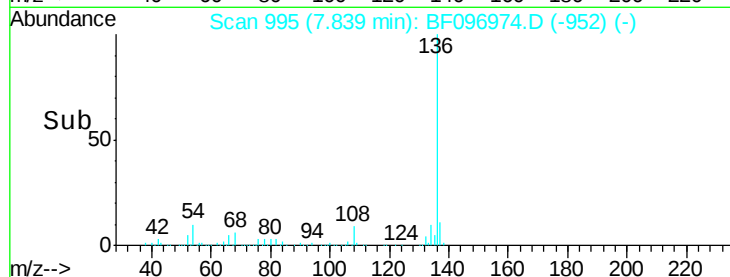


Abundance Ion 136.00 (135.70 to 136.70): E

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: 55.19 ng

RT: 7.12 min Scan# 873

Delta R.T. -0.05 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

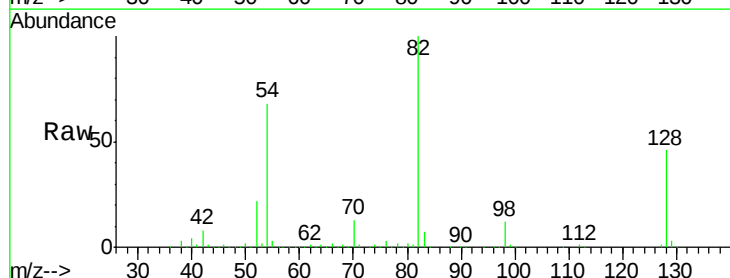
Tgt Ion: 82 Resp: 503339

Ion Ratio Lower Upper

82 100

128 45.9 34.0 51.0

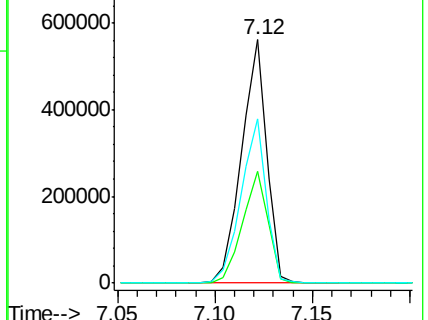
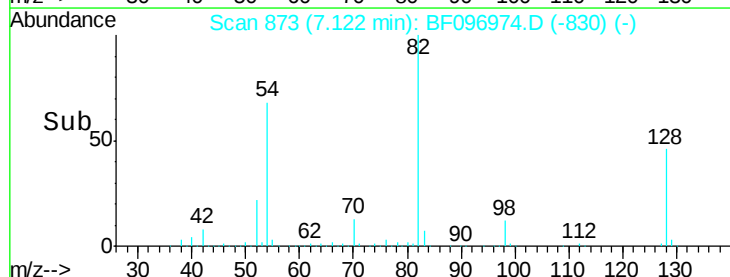
54 67.6 42.2 63.2#

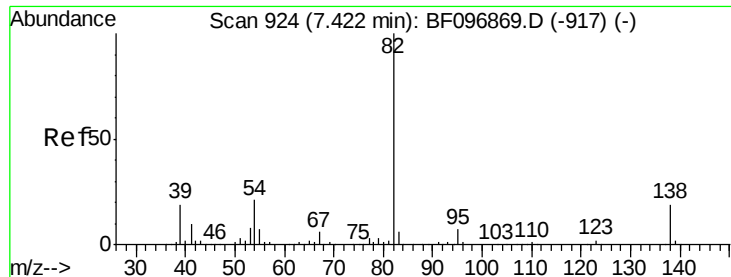


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 28.71 ng

RT: 7.12 min Scan# 873

Delta R.T. -0.31 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

Instrument :

BNA\_F

ClientSampleId :

M-COMB-9

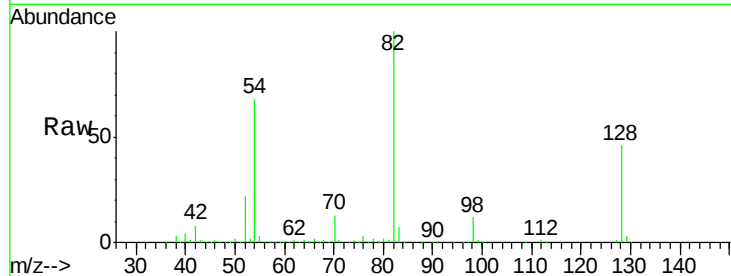
Tot Ion: 82 Resp: 487033

Ion Ratio Lower Upper

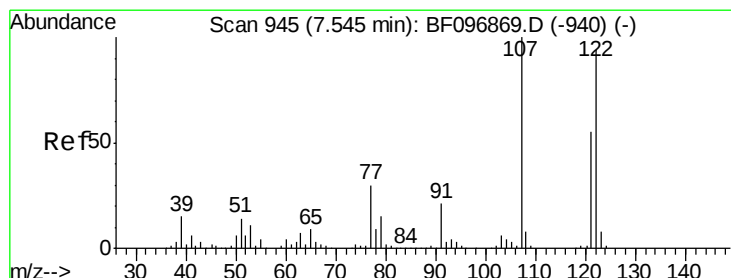
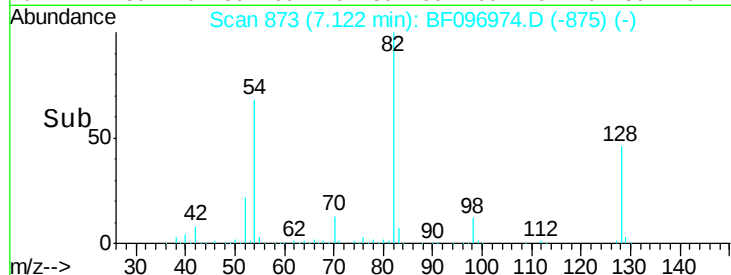
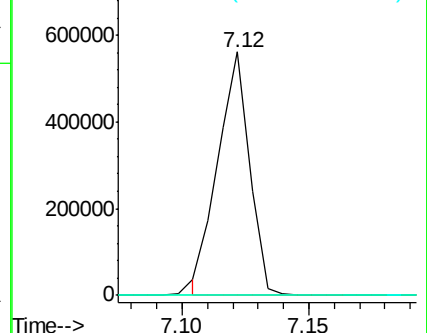
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#27

2,4-Dimethylphenol

Concen: 20.90 ng

RT: 7.69 min Scan# 969

Delta R.T. 0.13 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

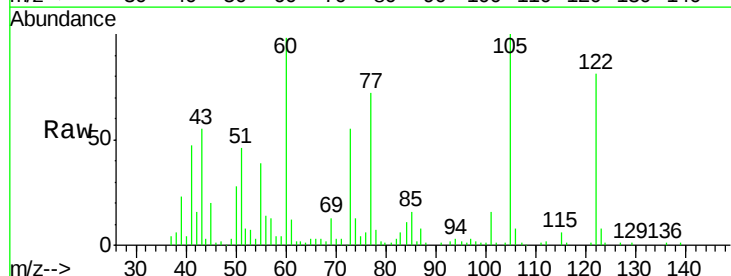
Tgt Ion: 122 Resp: 180309

Ion Ratio Lower Upper

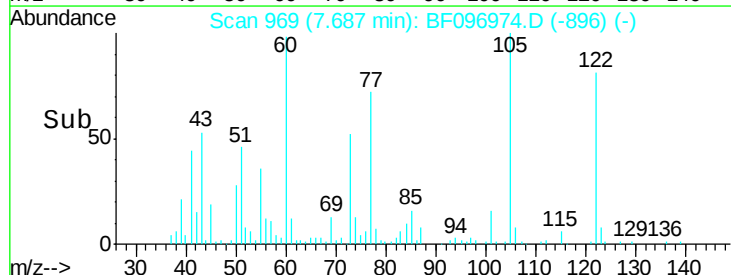
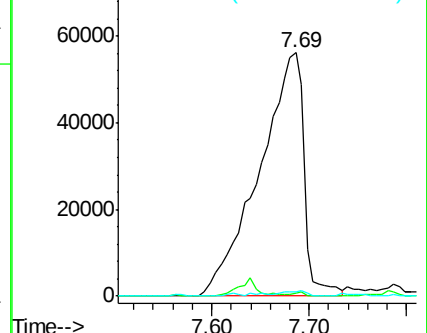
122 100

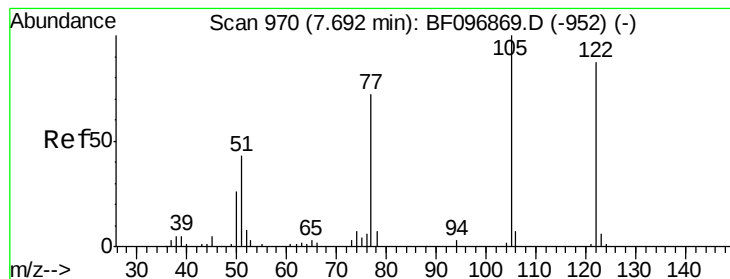
107 1.2 89.2 133.8#

121 1.8 45.2 67.8#



Abundance Ion 122.00 (121.70 to 122.70): BF0  
Ion 107.00 (106.70 to 107.70): BF0  
Ion 121.00 (120.70 to 121.70): BF0





#32

Benzoic acid

Concen: 32.70 ng

RT: 7.69 min Scan# 969

Delta R.T. -0.02 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

Instrument :

BNA\_F

ClientSampleId :

M-COMB-9

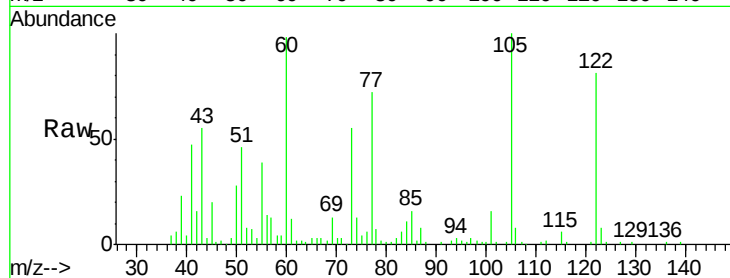
Tot Ion:122 Resp: 180309

Ion Ratio Lower Upper

122 100

105 122.9 103.3 143.3

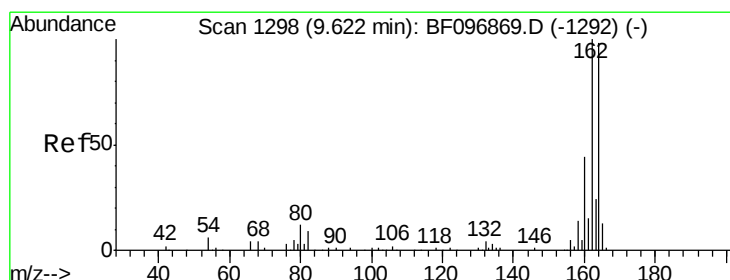
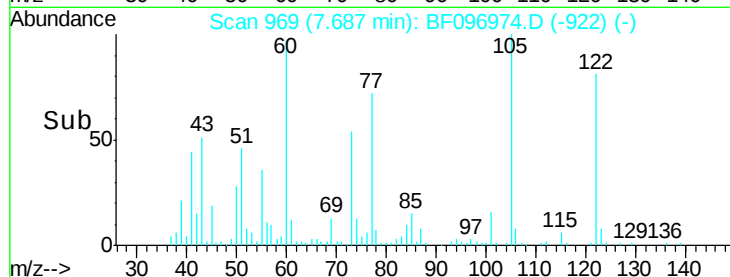
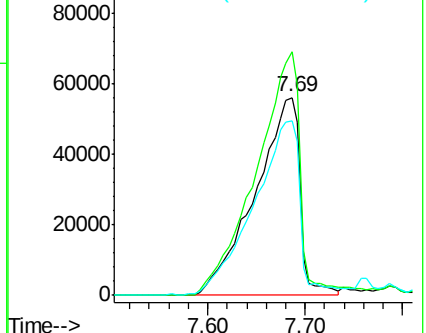
77 88.3 73.7 113.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.59 min Scan# 1292

Delta R.T. -0.05 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

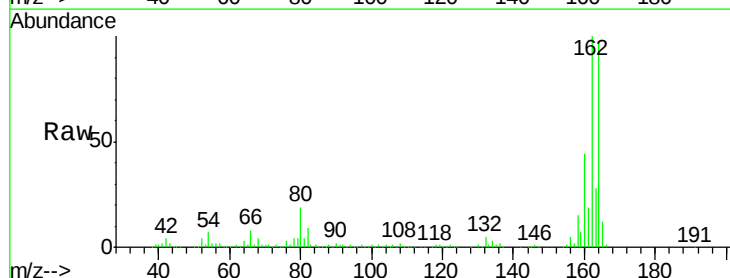
Tgt Ion:164 Resp: 186791

Ion Ratio Lower Upper

164 100

162 103.4 82.6 123.8

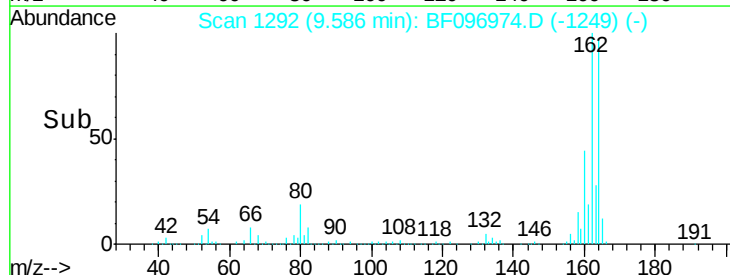
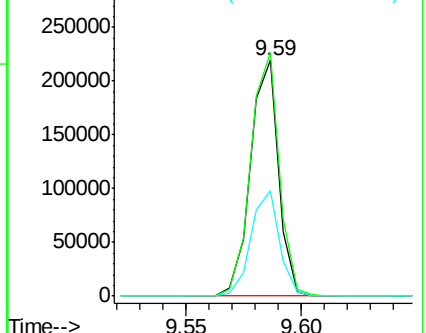
160 45.0 36.2 54.2

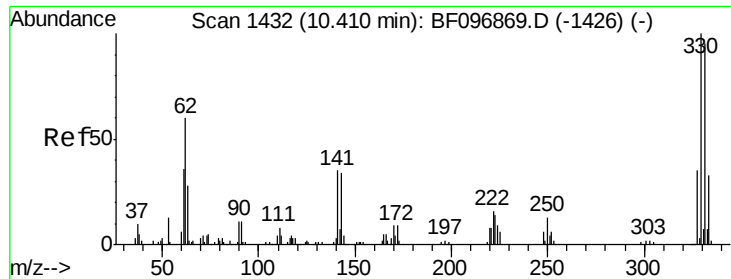


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

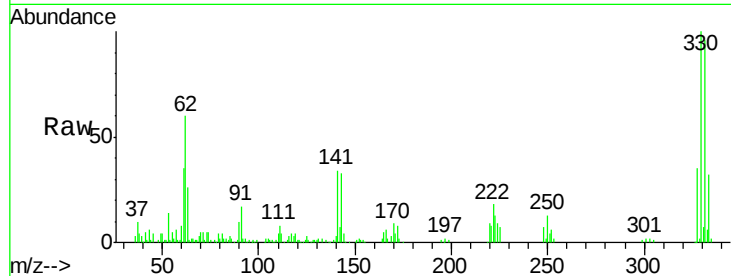




#41  
 2,4,6-Tribromophenol  
 Concen: 48.54 ng  
 RT: 10.37 min Scan# 1426  
 Delta R.T. -0.05 min  
 Lab File: BF096974.D  
 Acq: 22 Jul 2017 6:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M-COMB-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.6  | 115.0 |
| 141     | 40.7  | 31.4  | 47.2  |

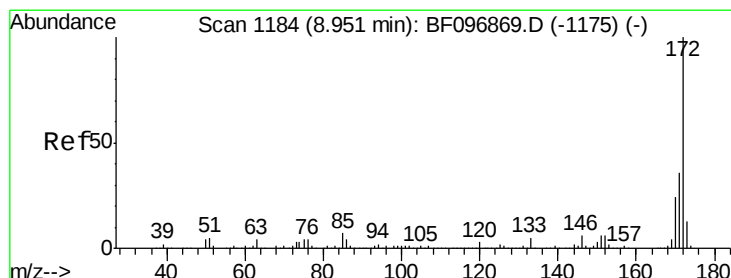
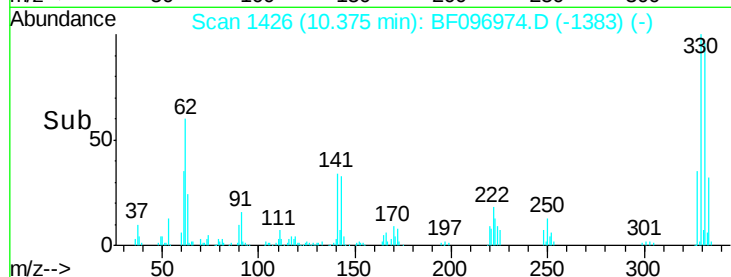
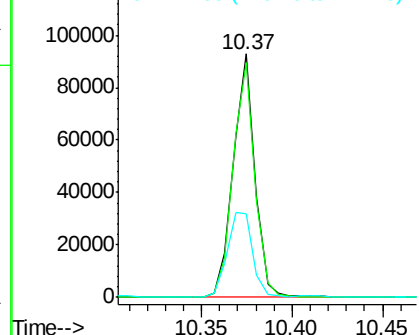


Abundance

Ion 329.80 (329.50 to 330.50): E

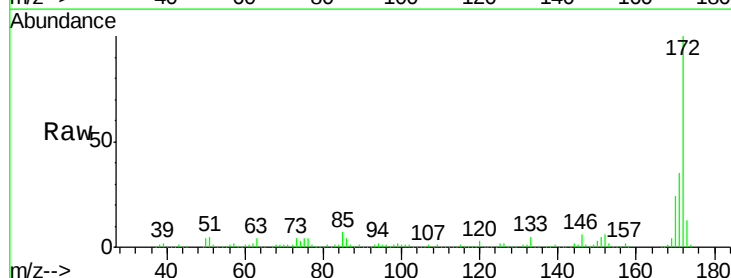
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 63.84 ng  
 RT: 8.92 min Scan# 1178  
 Delta R.T. -0.05 min  
 Lab File: BF096974.D  
 Acq: 22 Jul 2017 6:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 29.6  | 44.4  |
| 170     | 24.3  | 19.8  | 29.8  |

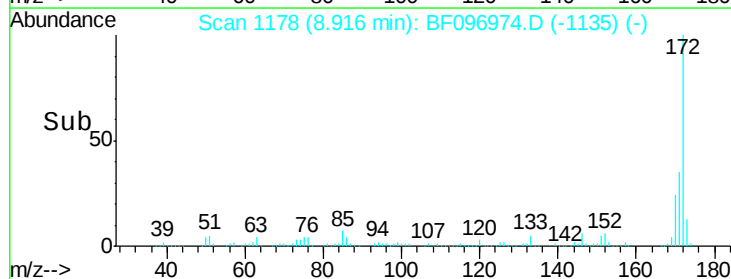
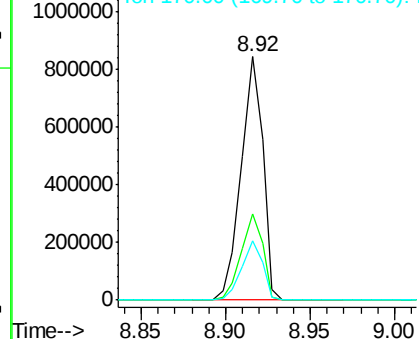


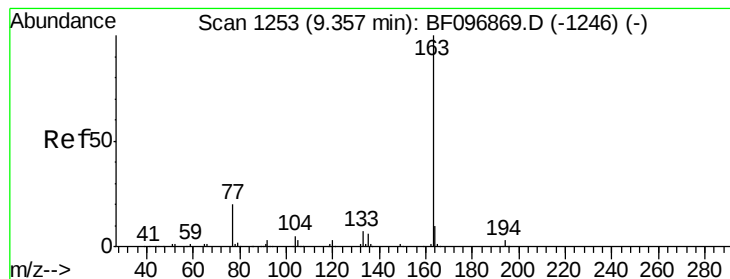
Abundance

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: 7.64 ng

RT: 9.31 min Scan# 1245

Delta R.T. -0.06 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

Instrument :

BNA\_F

ClientSampleId :

M-COMB-9

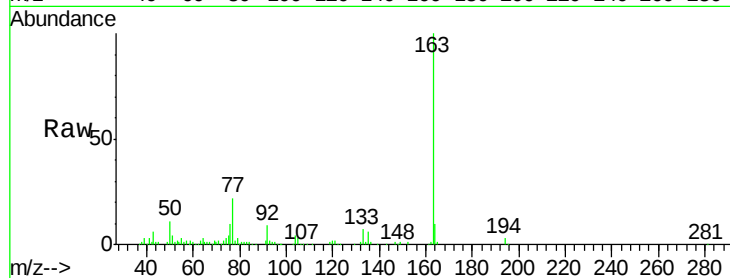
Tot Ion:163 Resp: 107460

Ion Ratio Lower Upper

163 100

194 2.8 2.6 4.0

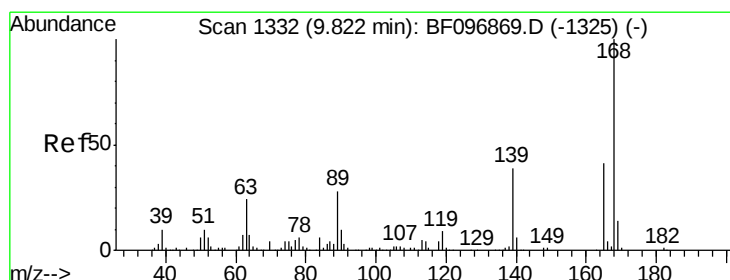
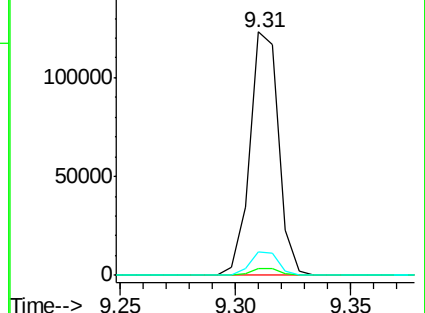
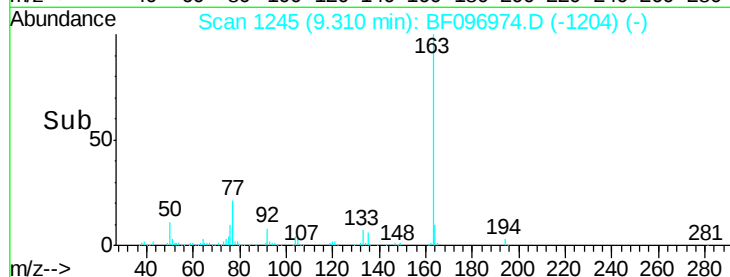
164 9.6 8.4 12.6



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: 6.18 ng

RT: 9.59 min Scan# 1292

Delta R.T. -0.24 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

Tgt Ion:165 Resp: 24209

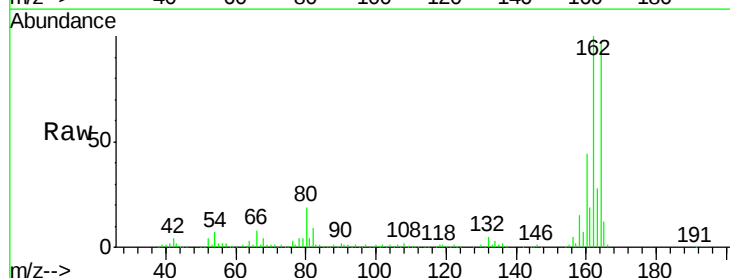
Ion Ratio Lower Upper

165 100

63 2.5 25.4 38.0#

89 2.2 46.4 69.6#

182 0.0 1.8 2.6#

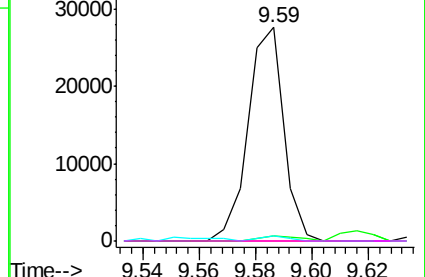
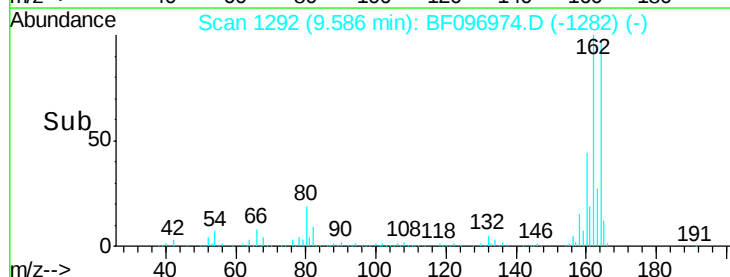


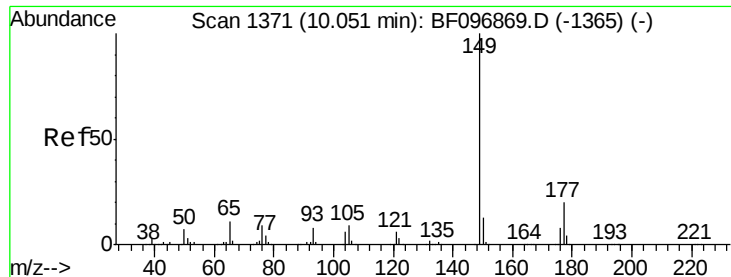
Abundance Ion 165.00 (164.70 to 165.70): E

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

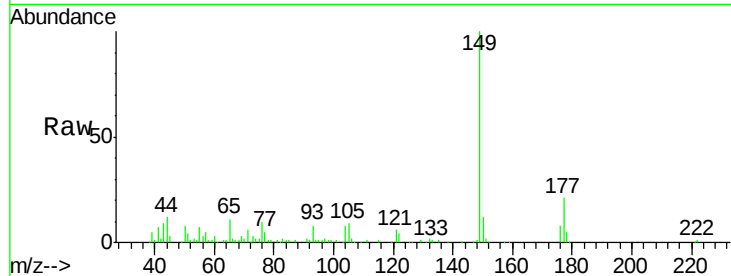




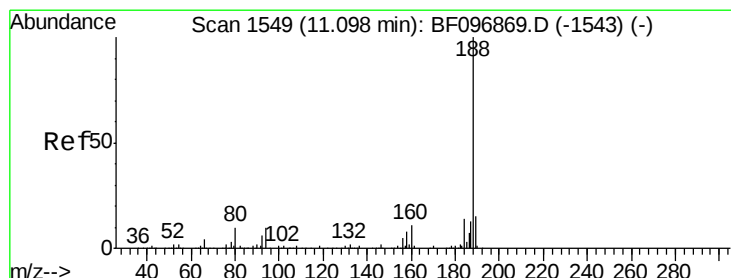
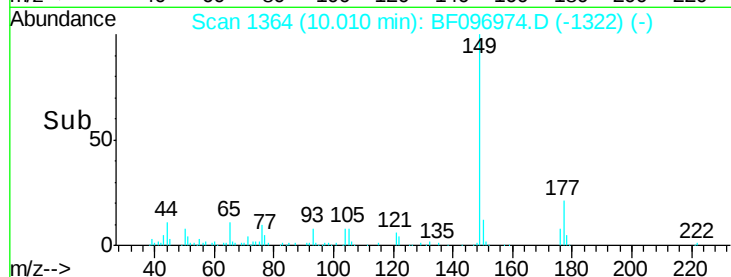
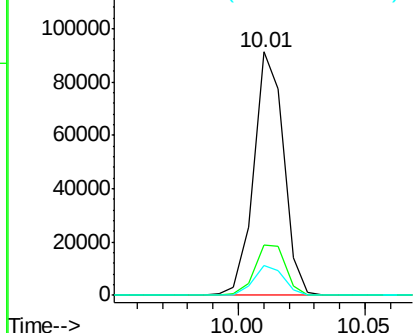
#59  
Diethylphthalate  
Concen: 5.49 ng  
RT: 10.01 min Scan# 1364  
Delta R.T. -0.05 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

Instrument :  
BNA\_F  
ClientSampleId :  
M-COMB-9

Tot Ion:149 Resp: 75176  
Ion Ratio Lower Upper  
149 100  
177 20.9 16.7 25.1  
150 12.5 10.2 15.2

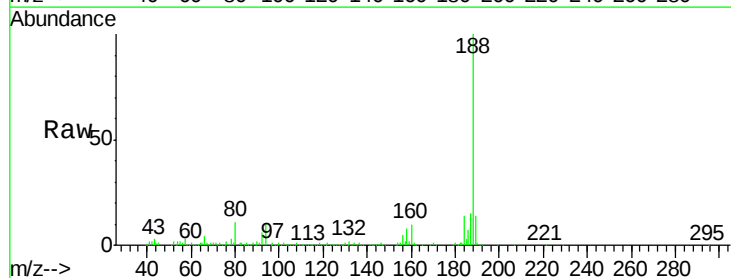


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

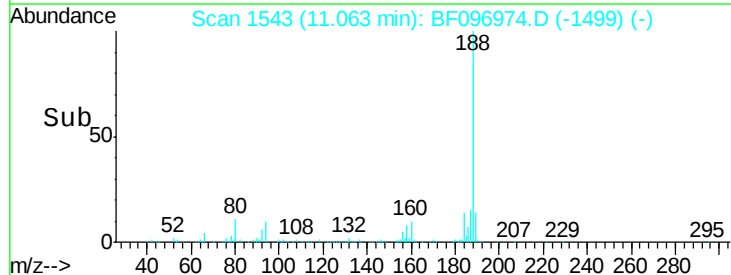
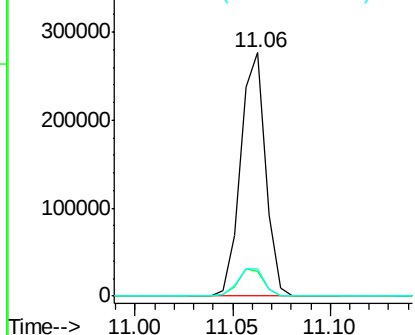


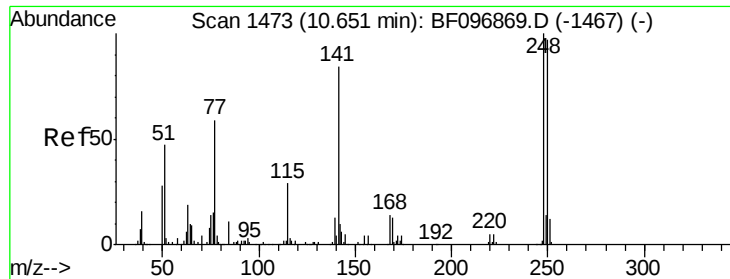
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.06 min Scan# 1543  
Delta R.T. -0.04 min  
Lab File: BF096974.D  
Acq: 22 Jul 2017 6:57

Tgt Ion:188 Resp: 244646  
Ion Ratio Lower Upper  
188 100  
94 10.0 9.4 14.2  
80 11.3 10.2 15.2



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

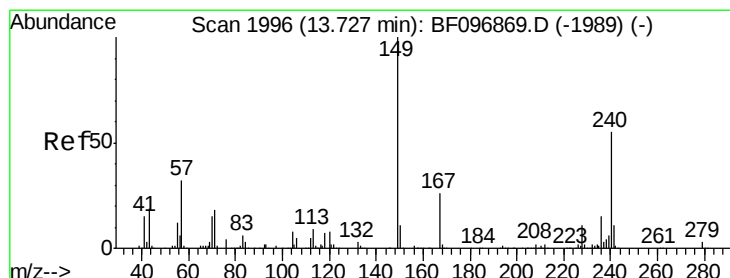
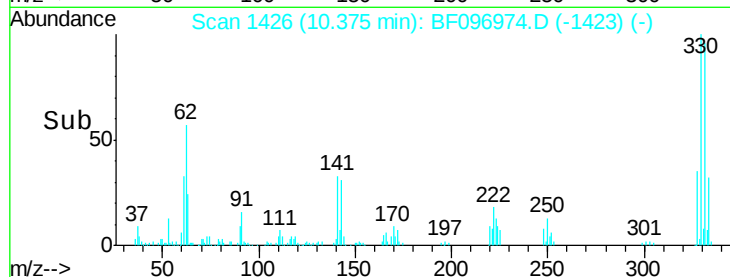
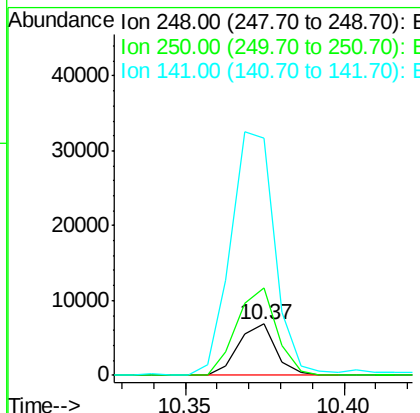
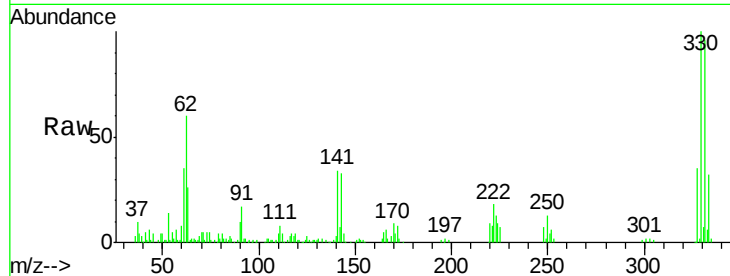




#66  
 4-Bromophenyl-phenylether  
 Concen: 2.23 ng  
 RT: 10.37 min Scan# 1426  
 Delta R.T. -0.28 min  
 Lab File: BF096974.D  
 Acq: 22 Jul 2017 6:57

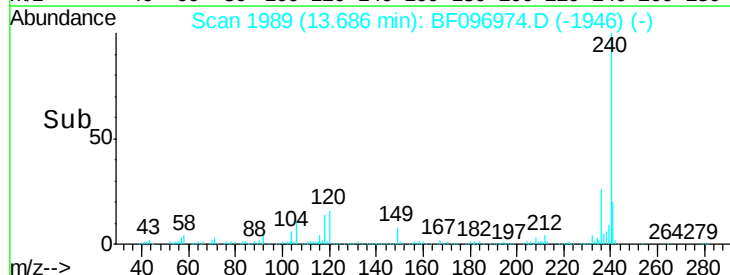
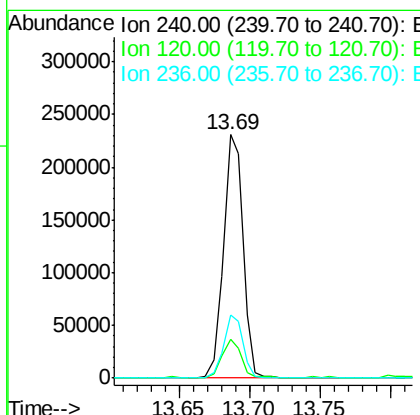
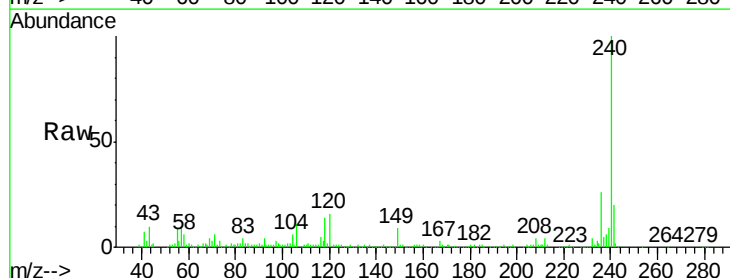
Instrument :  
 BNA\_F  
 ClientSampleId :  
 M-COMB-9

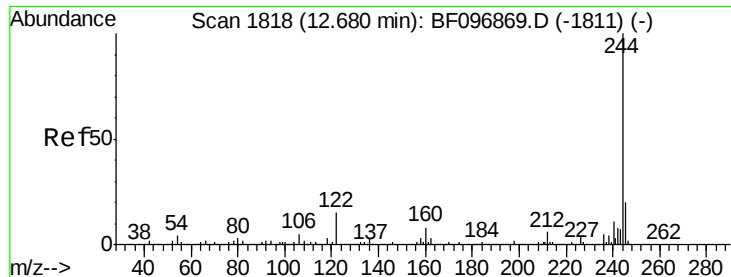
Tot Ion:248 Resp: 5572  
 Ion Ratio Lower Upper  
 248 100  
 250 171.7 76.8 115.2#  
 141 462.0 68.6 103.0#



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.69 min Scan# 1989  
 Delta R.T. -0.05 min  
 Lab File: BF096974.D  
 Acq: 22 Jul 2017 6:57

Tgt Ion:240 Resp: 222839  
 Ion Ratio Lower Upper  
 240 100  
 120 15.7 5.8 8.8#  
 236 25.7 20.5 30.7





#78

Terphenyl-d14

Concen: 35.10 ng

RT: 12.65 min Scan# 1813

Delta R.T. -0.04 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

Instrument :

BNA\_F

ClientSampleId :

M-COMB-9

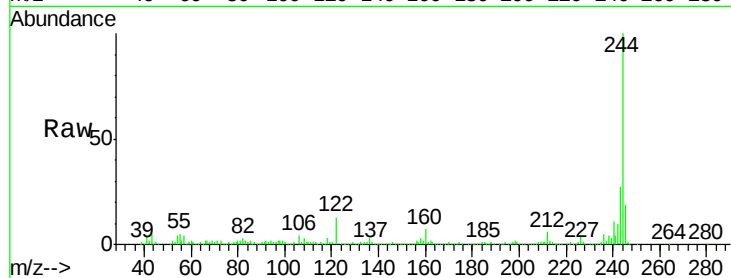
Tot Ion:244 Resp: 450950

Ion Ratio Lower Upper

244 100

212 6.2 6.0 9.0

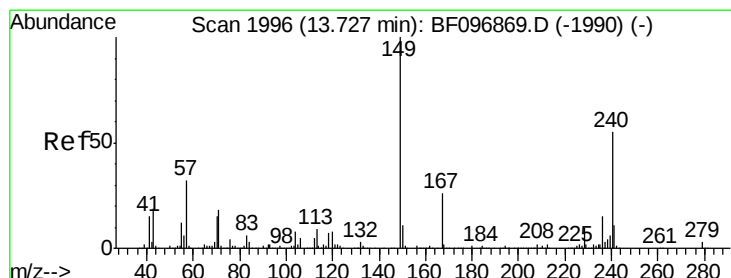
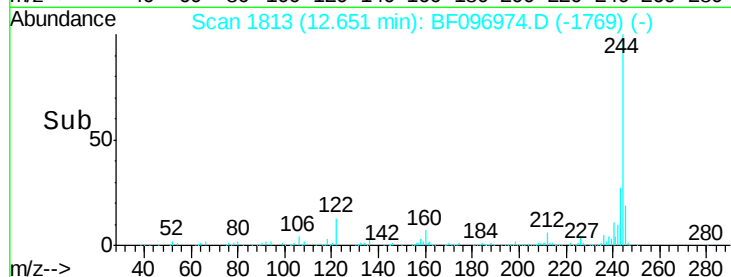
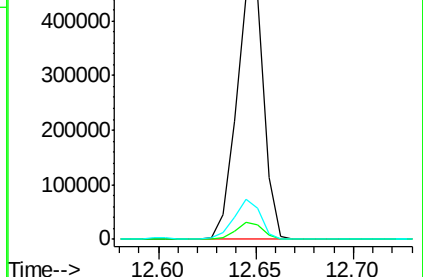
122 12.8 10.3 15.5



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: 2.58 ng

RT: 13.69 min Scan# 1990

Delta R.T. -0.04 min

Lab File: BF096974.D

Acq: 22 Jul 2017 6:57

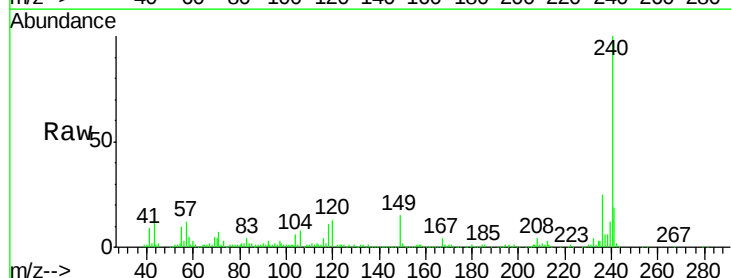
Tgt Ion:149 Resp: 30153

Ion Ratio Lower Upper

149 100

167 28.7 21.0 31.4

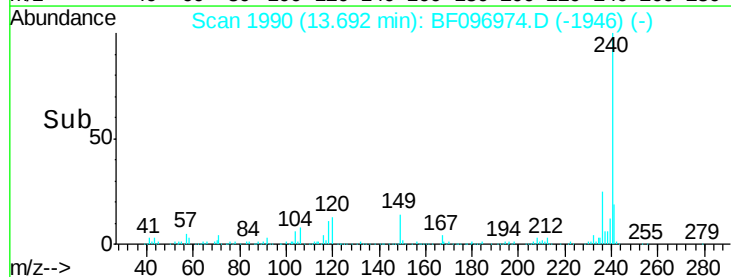
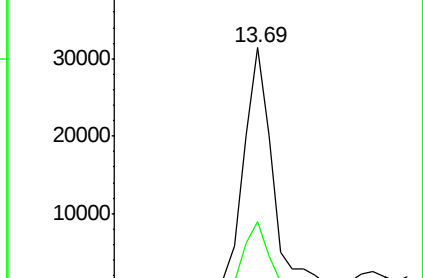
279 1.9 1.9 2.9

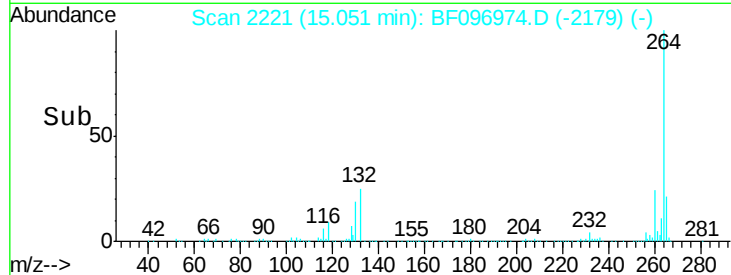
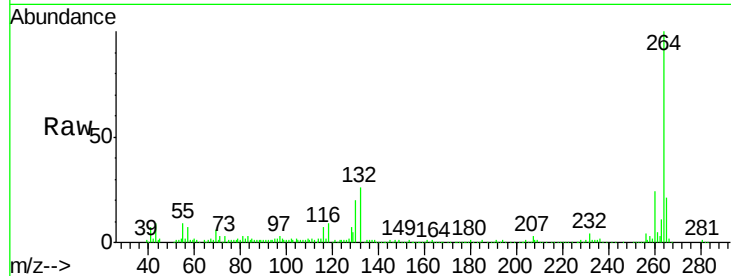
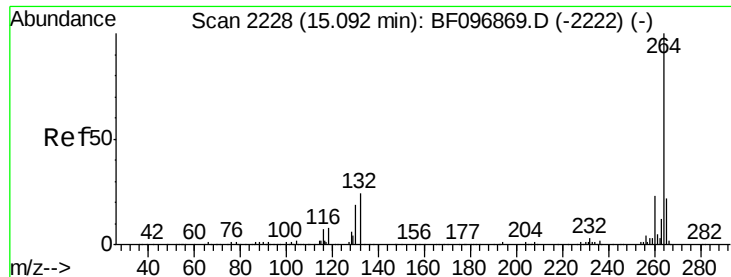


Abundance Ion 149.00 (148.70 to 149.70): E

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: 15.05 min Scan# 2221  
 Delta R.T. -0.05 min  
 Lab File: BF096974.D  
 Acq: 22 Jul 2017 6:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M-COMB-9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 205524 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.4  | 19.5  | 29.3   |
| 265       | 20.9  | 17.2  | 25.8   |

