

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100417\  
 Data File : BF099070.D  
 Acq On : 4 Oct 2017 16:46  
 Operator : SJ/JU  
 Sample : I5517-03RE  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 05 01:07:55 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

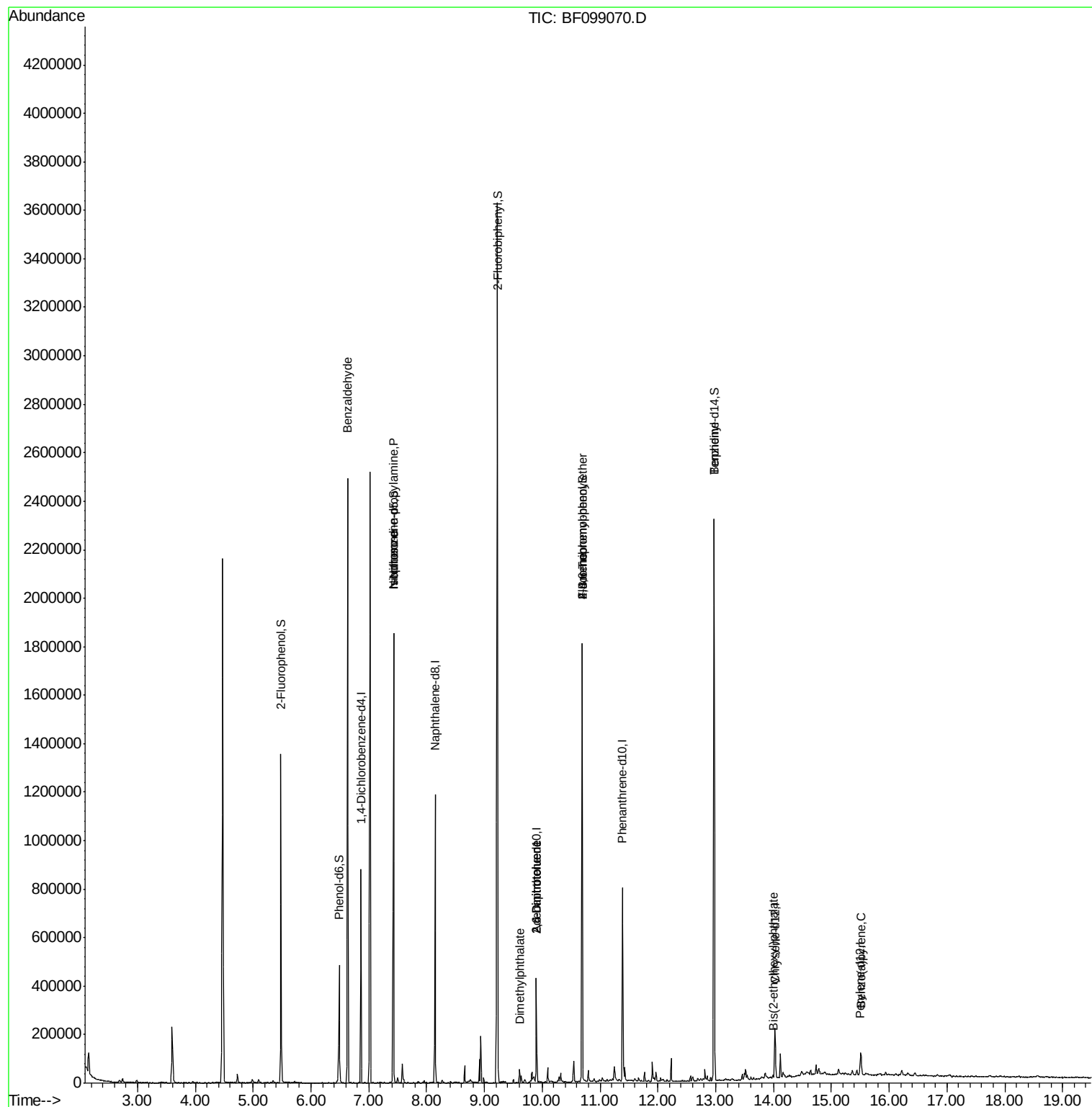
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 117558   | 20.00  | ng    | -0.06     |
| 21) Naphthalene-d8             | 8.15  | 136  | 467950   | 20.00  | ng    | -0.06     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 60563    | 20.00  | ng    | -0.06     |
| 63) Phenanthrene-d10           | 11.39 | 188  | 184191   | 20.00  | ng    | -0.06     |
| 75) Chrysene-d12               | 14.02 | 240  | 31112    | 20.00  | ng    | -0.06     |
| 86) Perylene-d12               | 15.49 | 264  | 964      | 20.00  | ng    | -0.08     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.48  | 112  | 352273   | 47.70  | ng    | -0.06     |
| 7) Phenol-d6                   | 6.49  | 99   | 113430   | 12.45  | ng    | -0.06     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 627154   | 85.95  | ng    | -0.06     |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 205756   | 415.19 | ng    | -0.06     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 1142199  | 314.85 | ng    | -0.06     |
| 78) Terphenyl-d14              | 12.97 | 244  | 466249   | 340.82 | ng    | -0.06     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.63  | 77   | 12904    | 2.44   | ng    | Qvalue 82 |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 81519    | 14.02  | ng    | # 75      |
| 25) Isophorone                 | 7.43  | 82   | 623518   | 41.33  | ng    | # 64      |
| 49) Dimethylphthalate          | 9.61  | 163  | 21172    | 4.63   | ng    | 98        |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 7449     | 7.49   | ng    | # 31      |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 7449     | 5.77   | ng    | # 29      |
| 57) Fluorene                   | 10.69 | 166  | 11404    | 2.81   | ng    | # 85      |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 13298    | 7.38   | ng    | # 1       |
| 76) Benzidine                  | 12.97 | 184  | 7861     | 6.83   | ng    | # 69      |
| 83) Bis(2-ethylhexyl)phthalate | 13.99 | 149  | 3443     | 2.24   | ng    | # 94      |
| 89) Benzo(a)pyrene             | 15.51 | 252  | 1541     | 28.32  | ng    | # 1       |

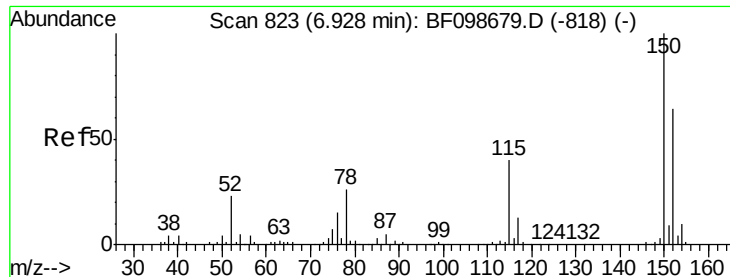
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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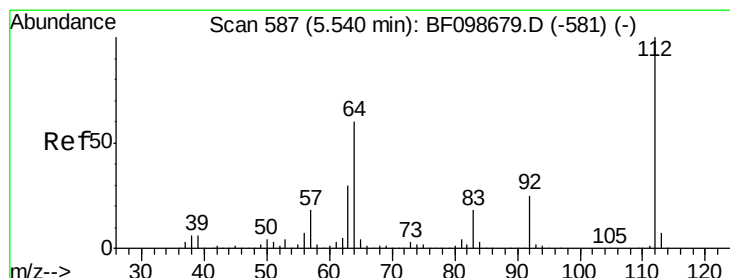
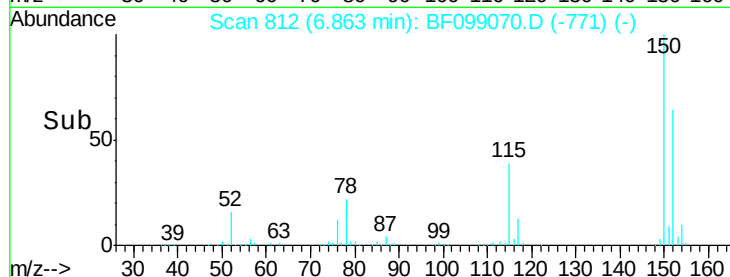
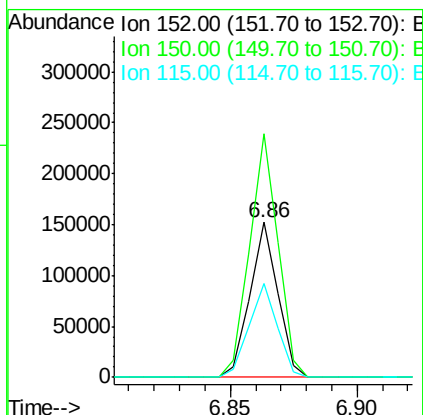
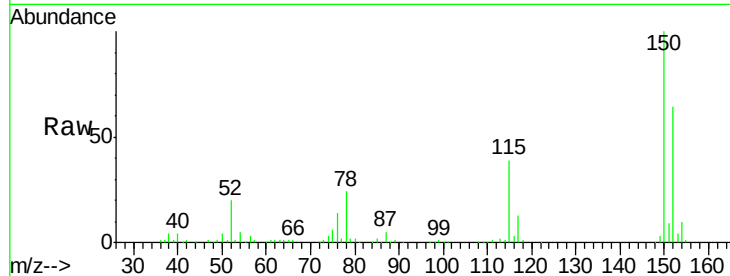


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.86 min Scan# 812  
 Delta R.T. -0.06 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

Instrument :  
 BNA\_F  
 ClientSampleId :

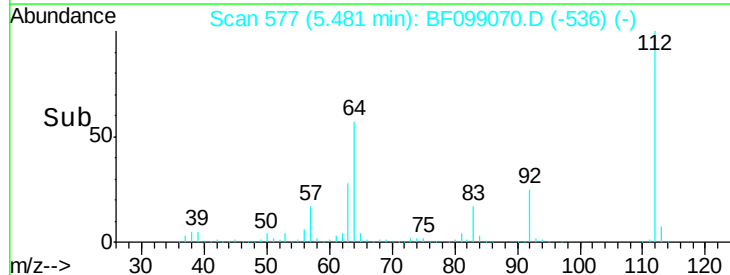
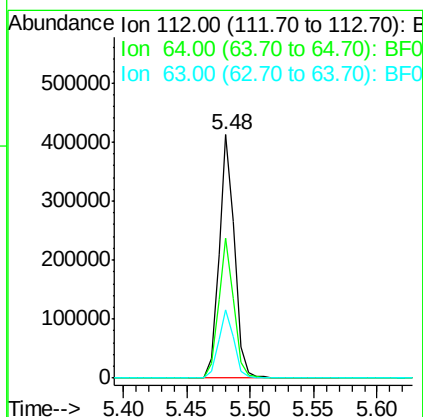
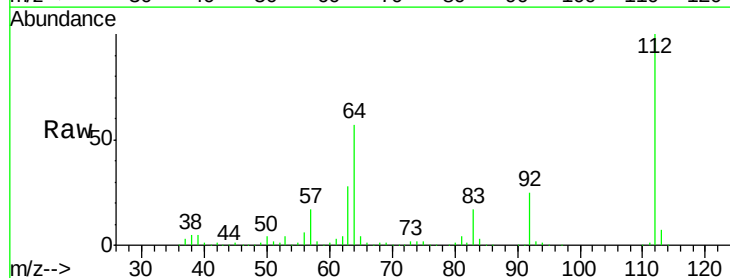
Tot Ion:152 Resp: 117558  
 Ion Ratio Lower Upper  
 152 100  
 150 157.0 124.6 186.8  
 115 60.9 50.1 75.1

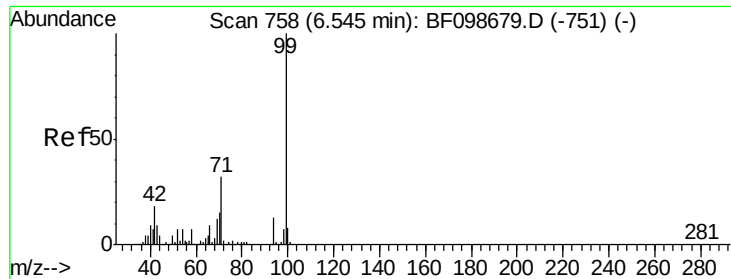


#5

2-Fluorophenol  
 Concen: 47.70 ng  
 RT: 5.48 min Scan# 577  
 Delta R.T. -0.06 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

Tgt Ion:112 Resp: 352273  
 Ion Ratio Lower Upper  
 112 100  
 64 57.5 47.9 71.9  
 63 27.8 23.7 35.5





#7

Phenol-d6

Concen: 12.45 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.06 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

Instrument :

BNA\_F

ClientSampleId :

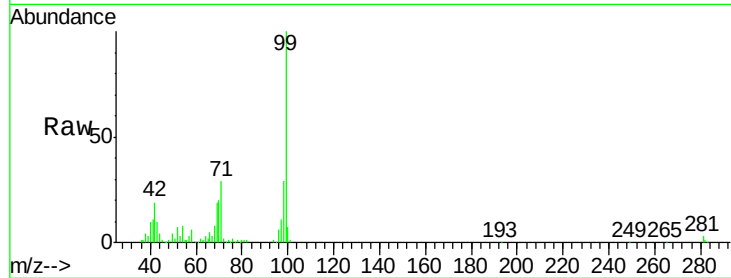
Tot Ion: 99 Resp: 113430

Ion Ratio Lower Upper

99 100

42 19.5 14.5 21.7

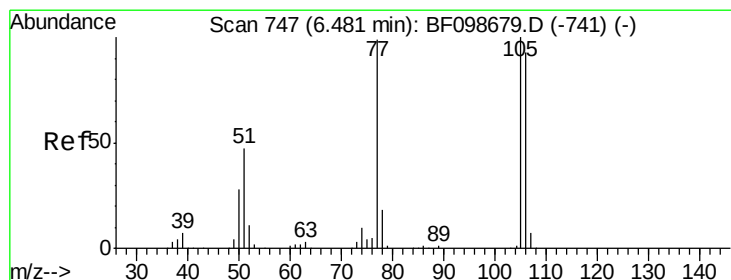
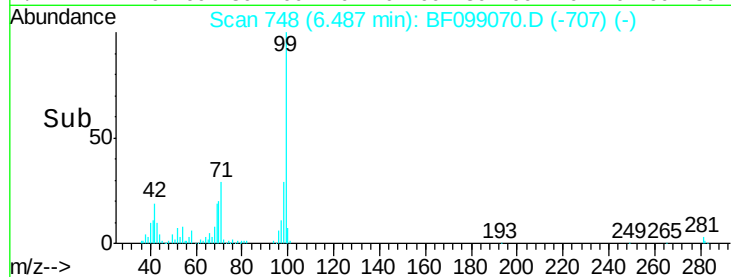
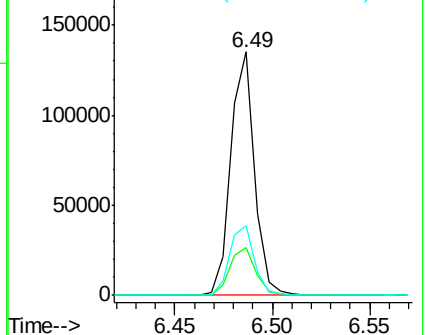
71 28.5 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.44 ng

RT: 6.63 min Scan# 773

Delta R.T. 0.16 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

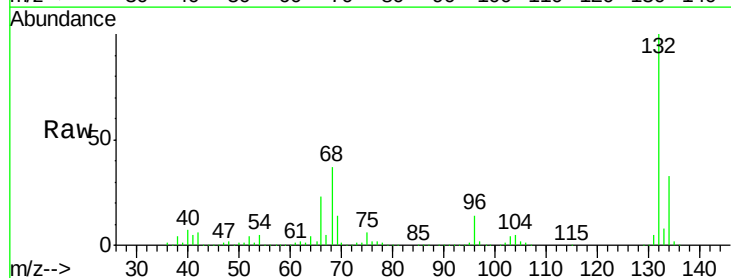
Tgt Ion: 77 Resp: 12904

Ion Ratio Lower Upper

77 100

105 83.2 81.1 121.1

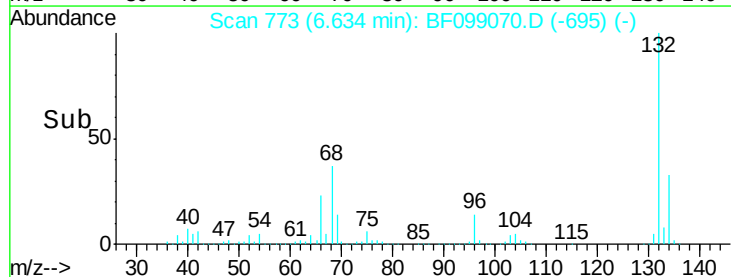
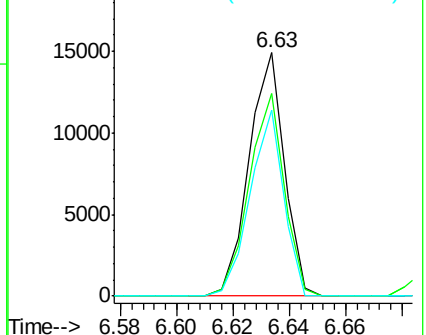
106 76.6 74.5 114.5

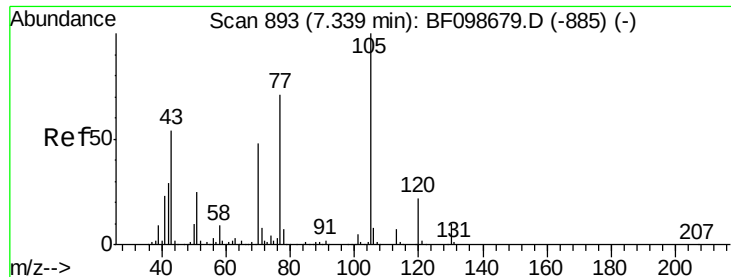


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B

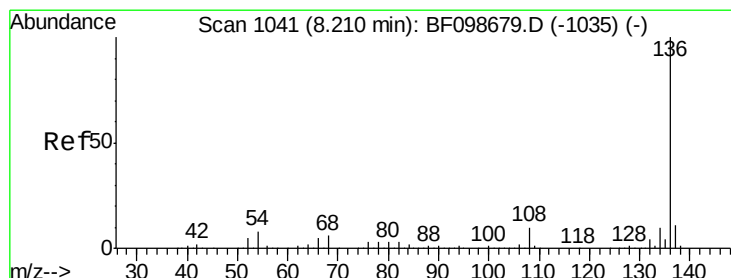
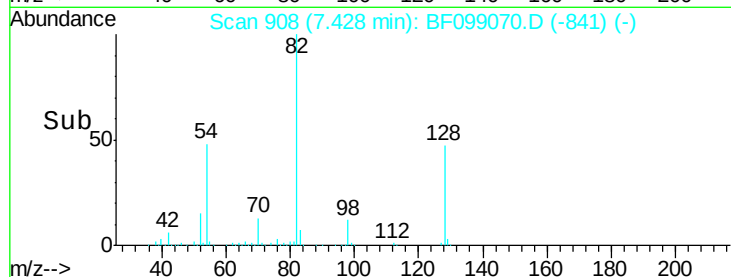
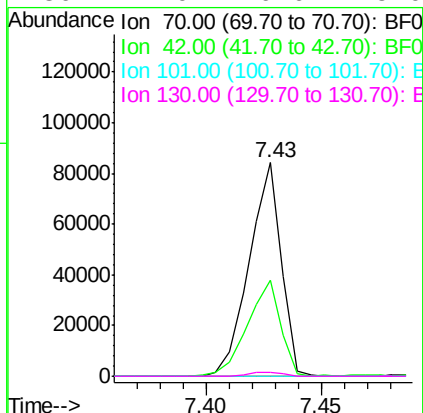
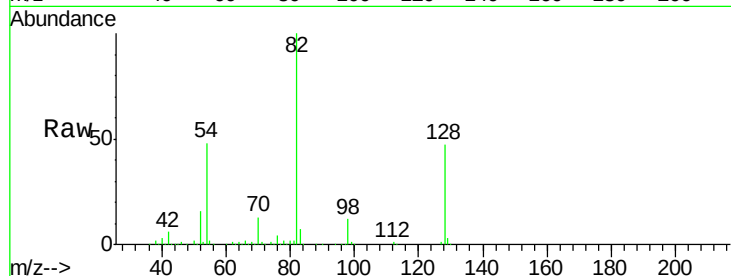




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.02 ng  
RT: 7.43 min Scan# 908  
Delta R.T. 0.09 min  
Lab File: BF099070.D  
Acq: 4 Oct 2017 16:46

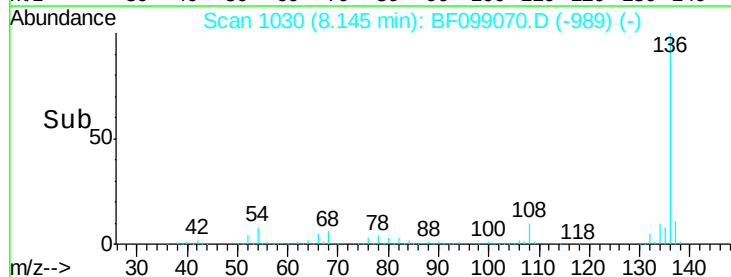
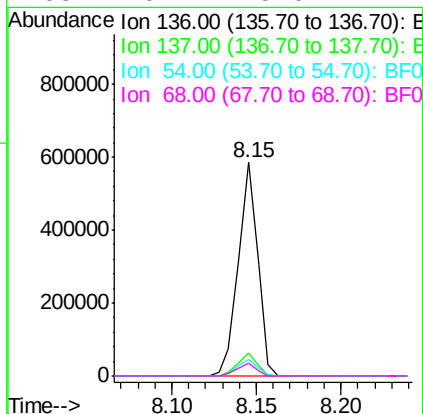
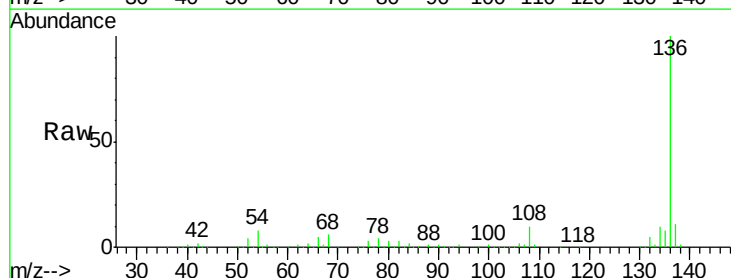
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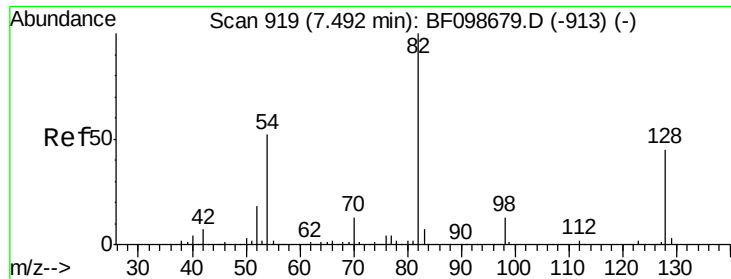
Tot Ion: 70 Resp: 81519  
Ion Ratio Lower Upper  
70 100  
42 45.2 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.0 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.06 min  
Lab File: BF099070.D  
Acq: 4 Oct 2017 16:46

Tgt Ion: 136 Resp: 467950  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.9 13.3  
54 7.6 6.6 9.8  
68 6.2 5.0 7.4

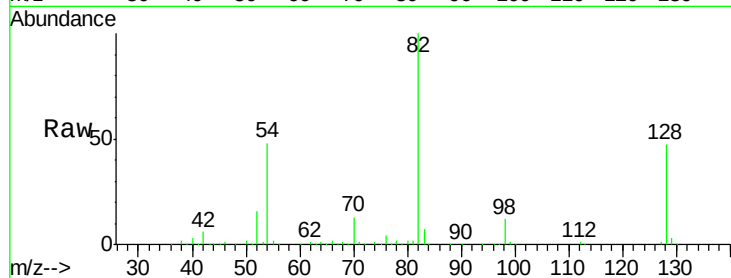




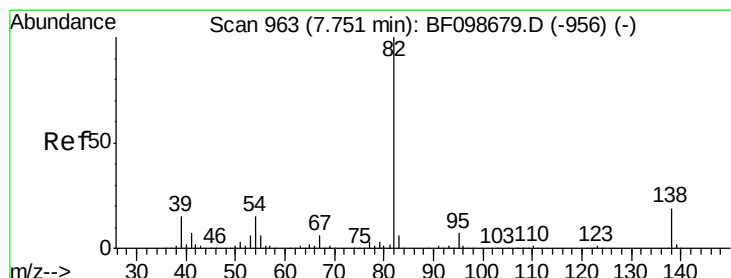
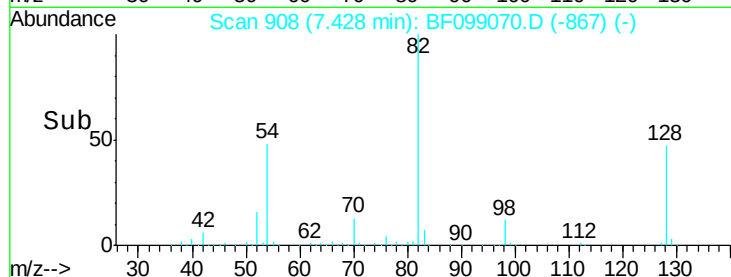
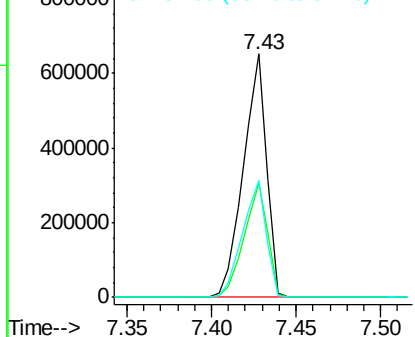
#23  
 Nitrobenzene-d5  
 Concen: 85.95 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. -0.06 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.8  | 36.1  | 54.1  |
| 54      | 48.1  | 41.4  | 62.2  |

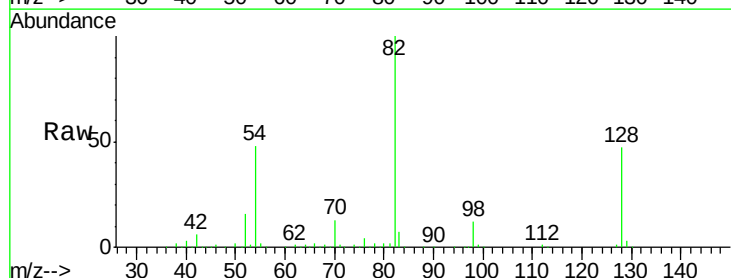


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

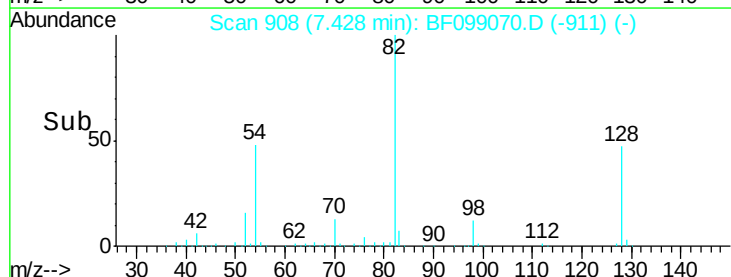
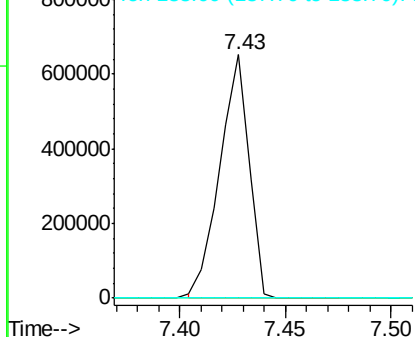


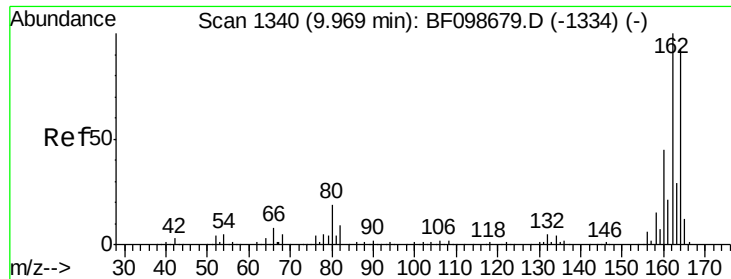
#25  
 Isophorone  
 Concen: 41.33 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. -0.32 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.2   | 7.8#  |
| 138     | 0.0   | 14.9  | 22.3# |



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

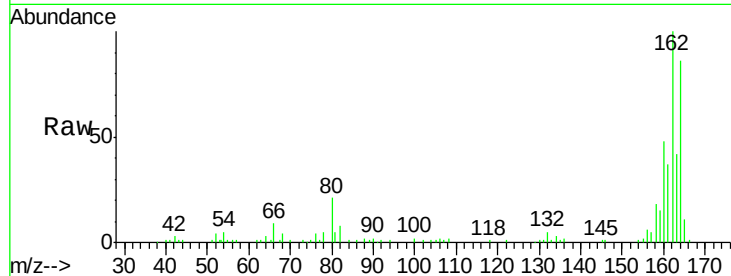




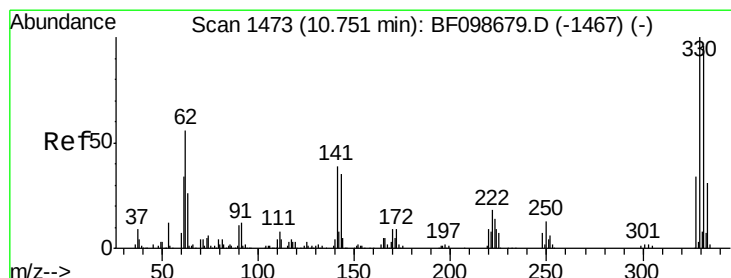
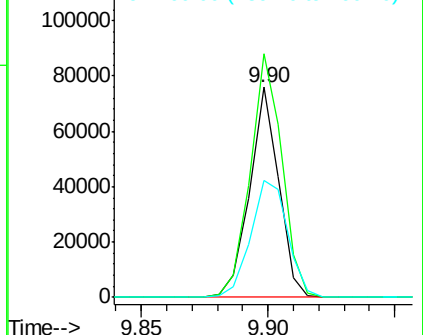
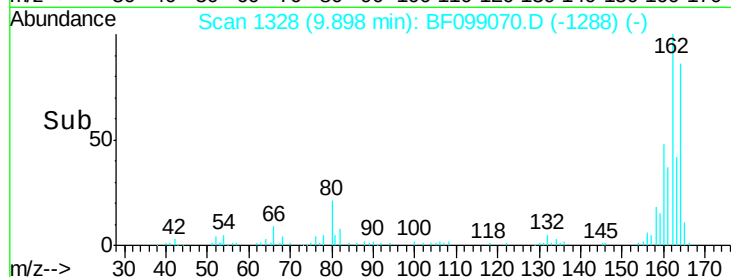
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.06 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:164 Resp: 60563  
 Ion Ratio Lower Upper  
 164 100  
 162 115.9 86.1 129.1  
 160 55.4 38.3 57.5

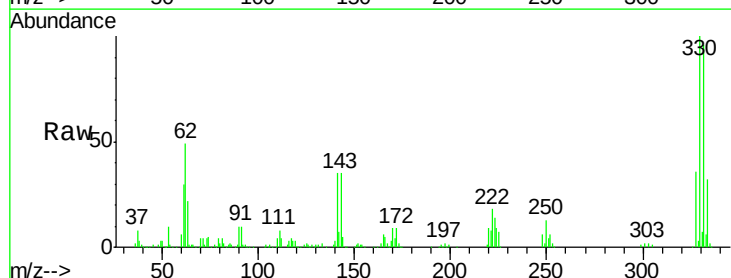


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

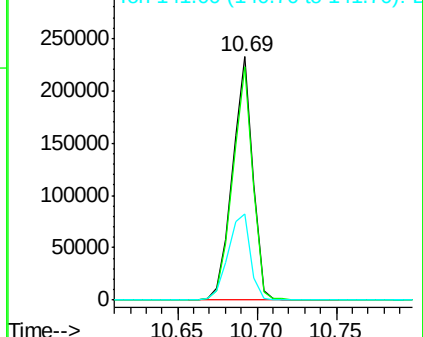
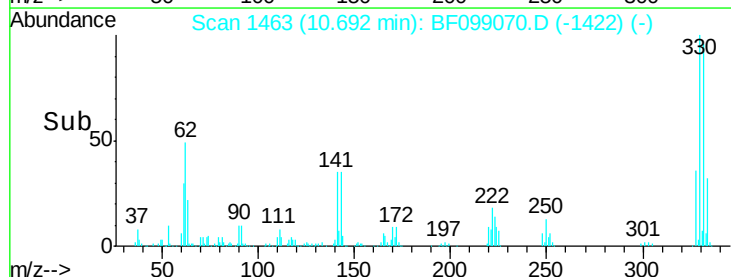


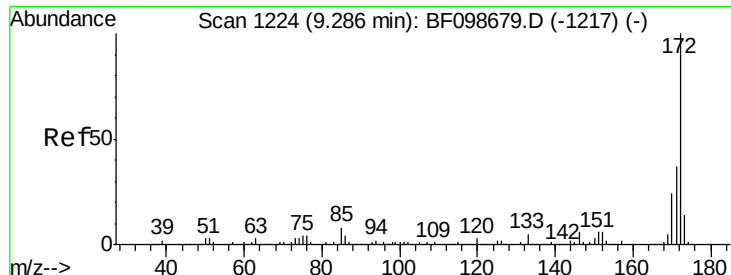
#41  
 2,4,6-Tribromophenol  
 Concen: 415.19 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.06 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

Tgt Ion:330 Resp: 205756  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 77.0 115.6  
 141 39.3 29.9 44.9



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

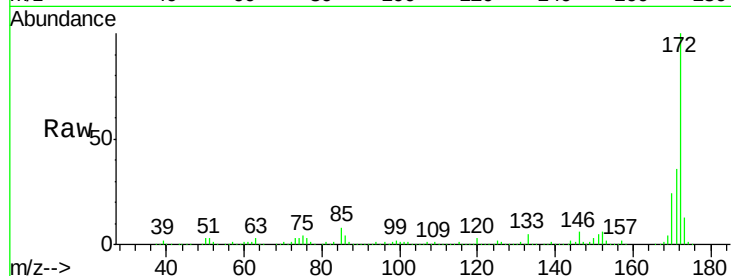




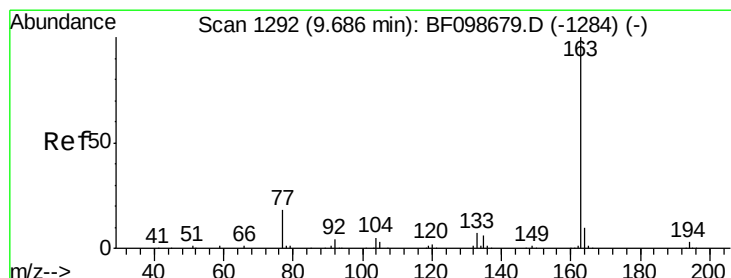
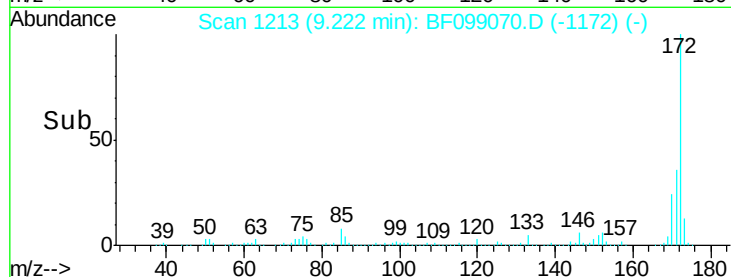
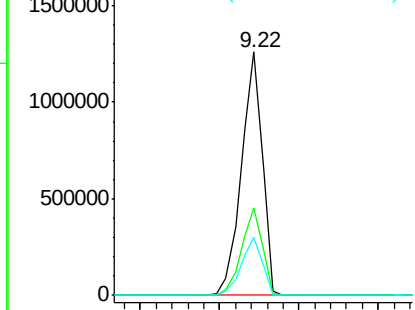
#44  
2-Fluorobiphenyl  
Concen: 314.85 ng  
RT: 9.22 min Scan# 1213  
Delta R.T. -0.06 min  
Lab File: BF099070.D  
Acq: 4 Oct 2017 16:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1142199  
Ion Ratio Lower Upper  
172 100  
171 35.7 29.7 44.5  
170 23.9 19.6 29.4

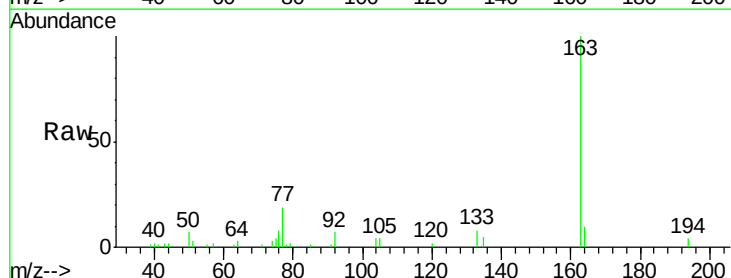


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

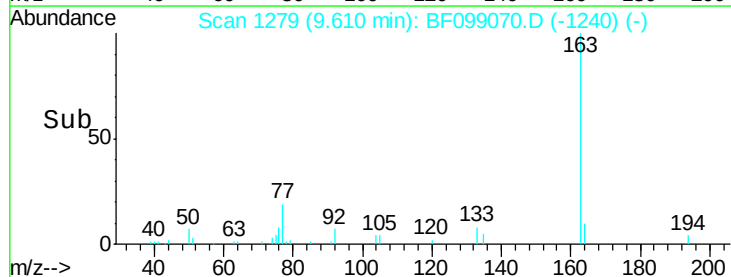
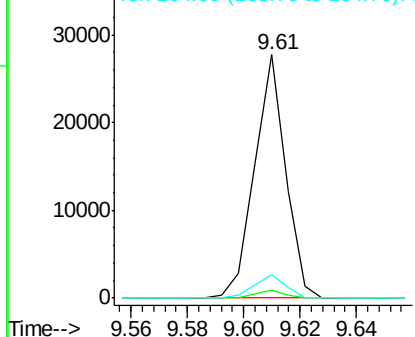


#49  
Dimethylphthalate  
Concen: 4.63 ng  
RT: 9.61 min Scan# 1279  
Delta R.T. -0.07 min  
Lab File: BF099070.D  
Acq: 4 Oct 2017 16:46

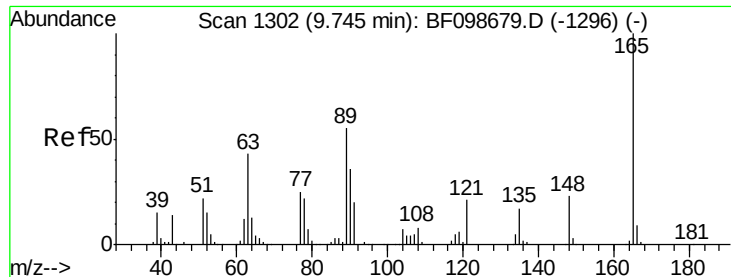
Tgt Ion:163 Resp: 21172  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.7 4.1  
164 9.5 8.2 12.2



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: 7.49 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.16 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

Instrument :

BNA\_F

ClientSampleId :

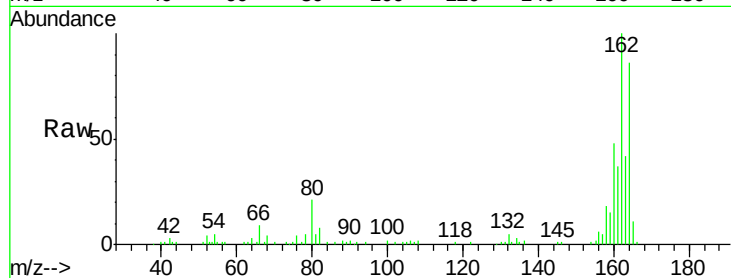
Tot Ion:165 Resp: 7449

Ion Ratio Lower Upper

165 100

63 4.8 44.7 67.1#

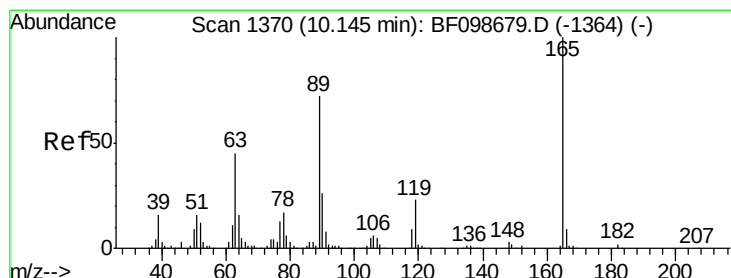
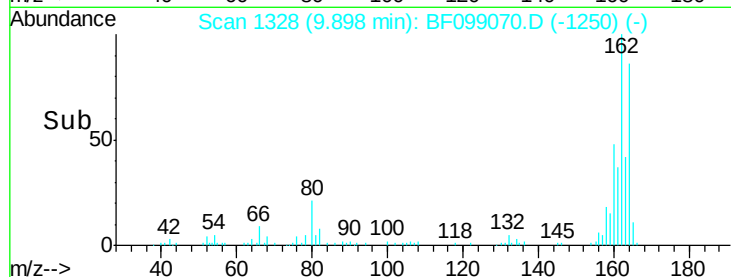
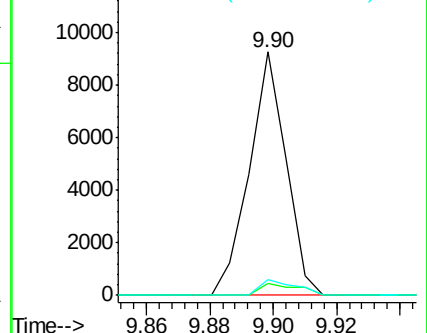
89 6.4 44.0 66.0#



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: 5.77 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.25 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

Tgt Ion:165 Resp: 7449

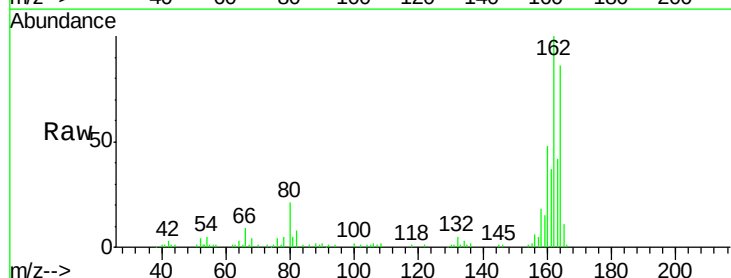
Ion Ratio Lower Upper

165 100

63 4.8 36.4 54.6#

89 6.4 57.8 86.6#

182 0.0 1.6 2.4#

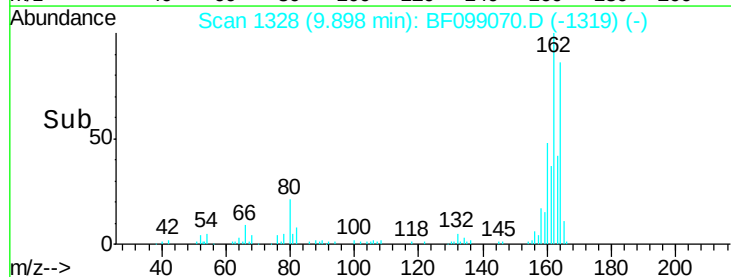
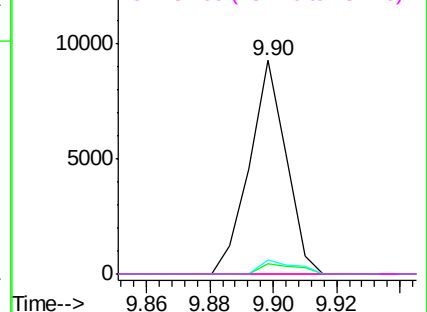


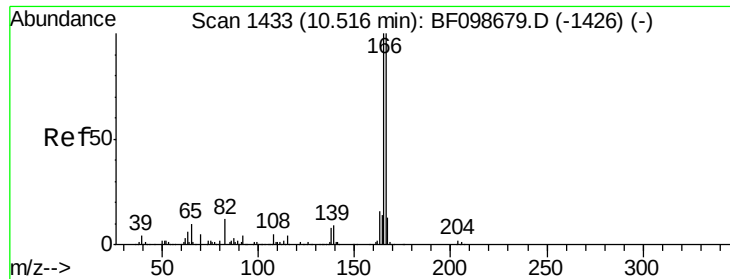
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

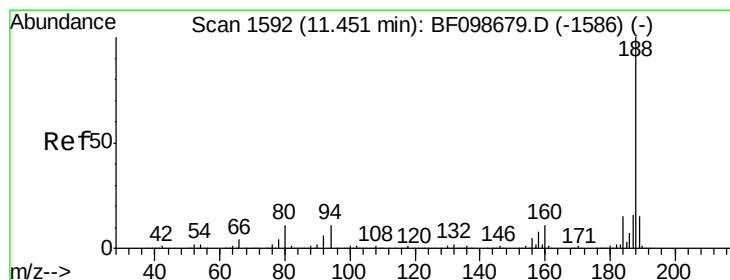
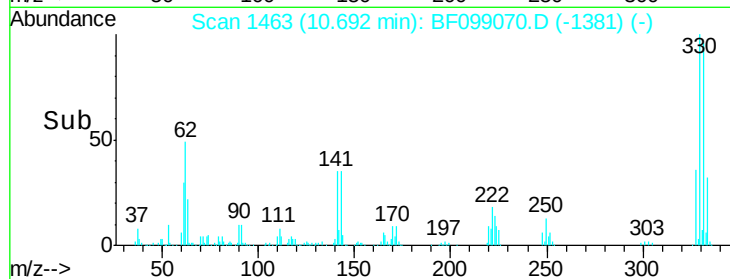
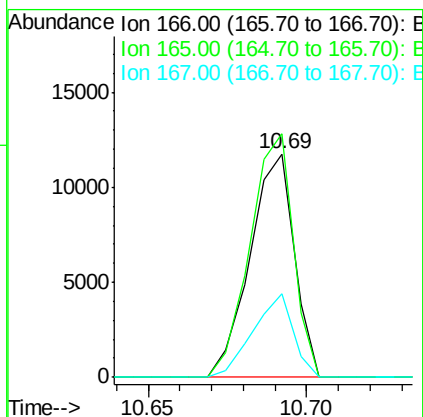
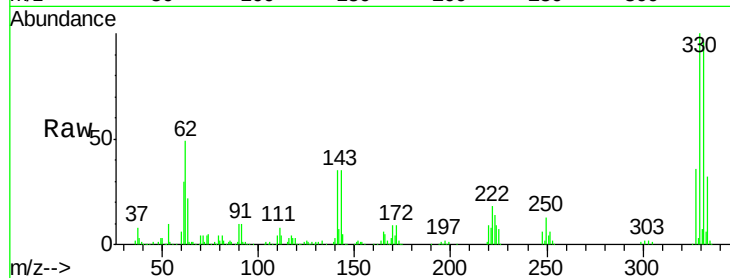




#57  
Fluorene  
Concen: 2.81 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. 0.18 min  
Lab File: BF099070.D  
Acq: 4 Oct 2017 16:46

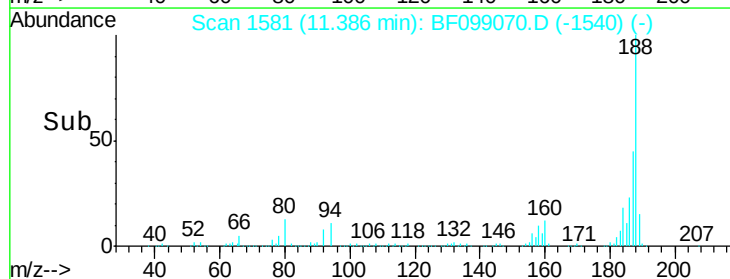
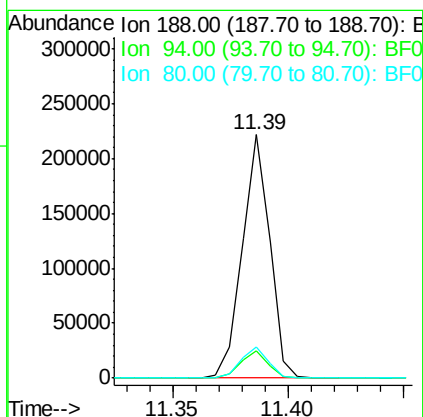
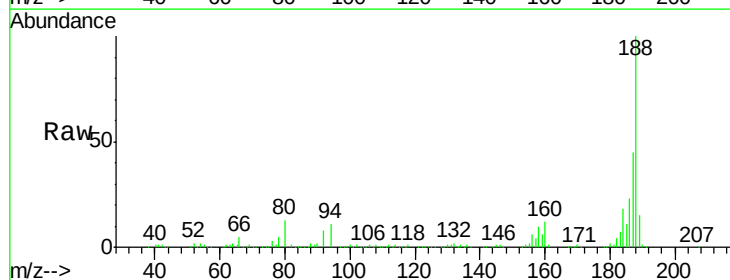
Instrument :  
BNA\_F  
ClientSampleId :

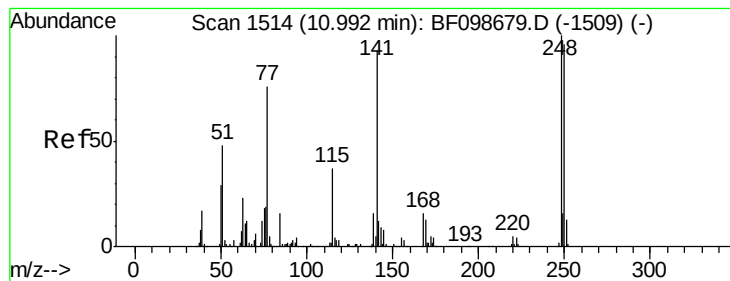
Tot Ion:166 Resp: 11404  
Ion Ratio Lower Upper  
166 100  
165 109.1 79.8 119.8  
167 37.7 10.6 16.0#



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.06 min  
Lab File: BF099070.D  
Acq: 4 Oct 2017 16:46

Tgt Ion:188 Resp: 184191  
Ion Ratio Lower Upper  
188 100  
94 11.3 8.5 12.7  
80 12.7 9.2 13.8





#66

4-Bromophenyl-phenylether

Concen: 7.38 ng

RT: 10.69 min Scan# 1463

Delta R.T. -0.30 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

Instrument :

BNA\_F

ClientSampled :

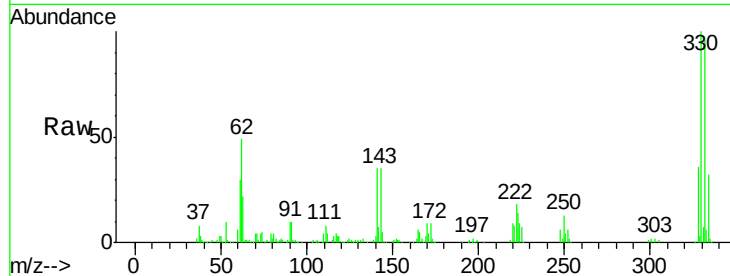
Tot Ion:248 Resp: 13298

Ion Ratio Lower Upper

248 100

250 203.0 76.9 115.3#

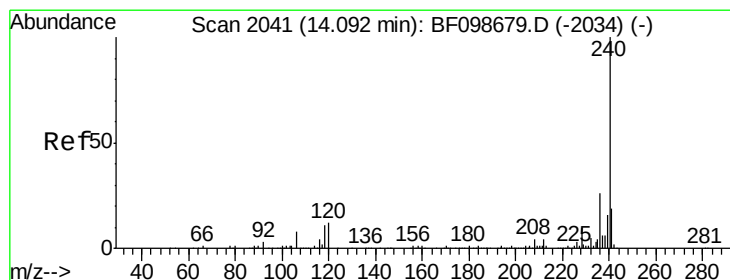
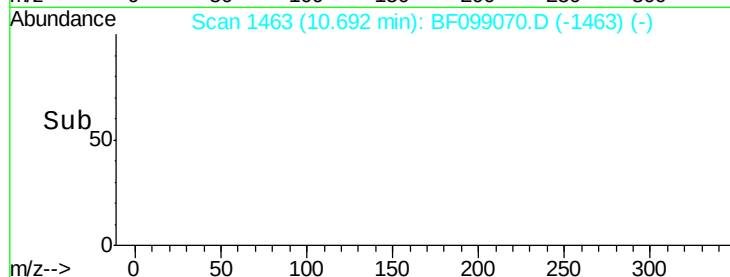
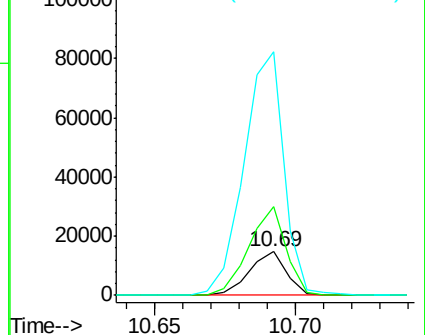
141 556.9 74.4 111.6#



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: 14.02 min Scan# 2029

Delta R.T. -0.06 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

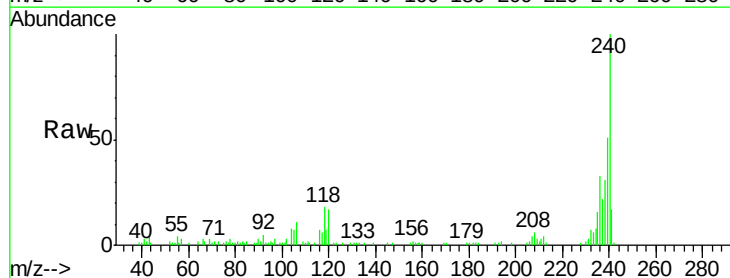
Tgt Ion:240 Resp: 31112

Ion Ratio Lower Upper

240 100

120 17.2 9.5 14.3#

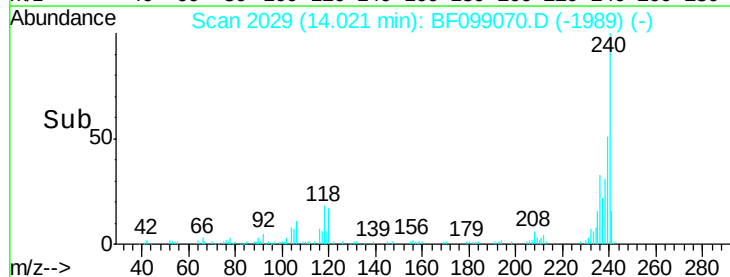
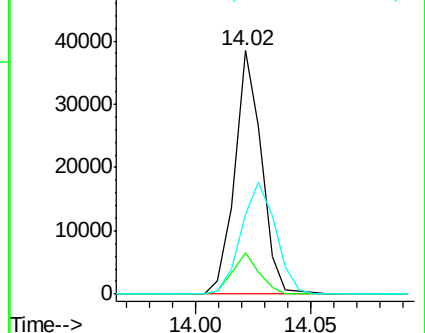
236 32.6 20.7 31.1#

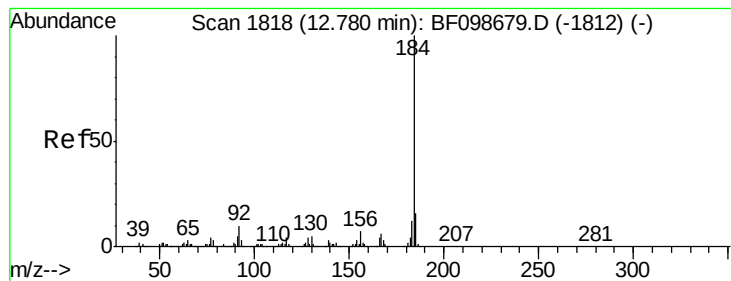


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 6.83 ng

RT: 12.97 min Scan# 1850

Delta R.T. 0.19 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

Instrument :

BNA\_F

ClientSampled :

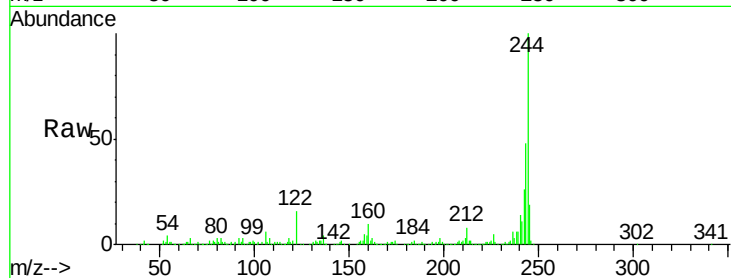
Tot Ion:184 Resp: 7861

Ion Ratio Lower Upper

184 100

185 20.1 12.6 18.8#

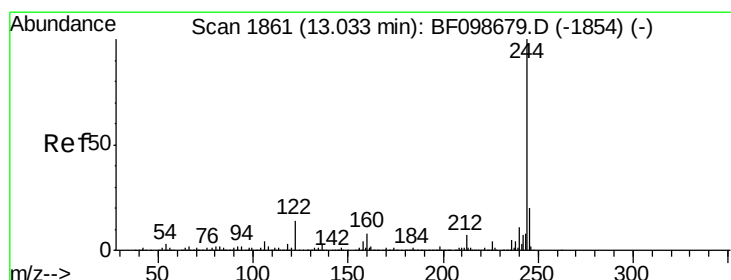
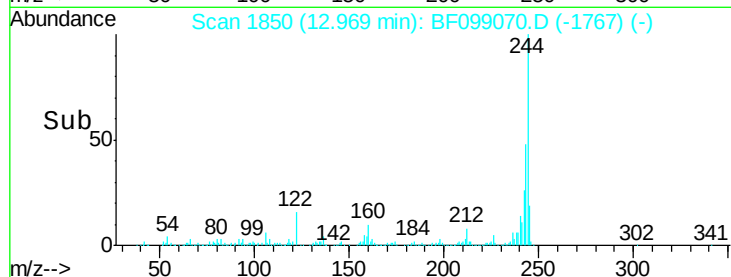
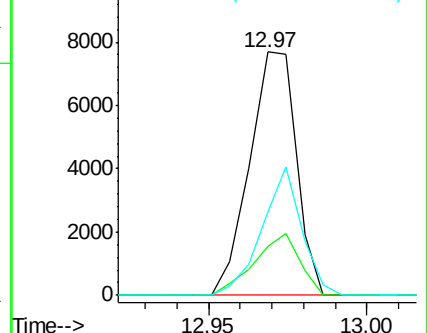
183 34.4 9.3 13.9#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 340.82 ng

RT: 12.97 min Scan# 1850

Delta R.T. -0.06 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

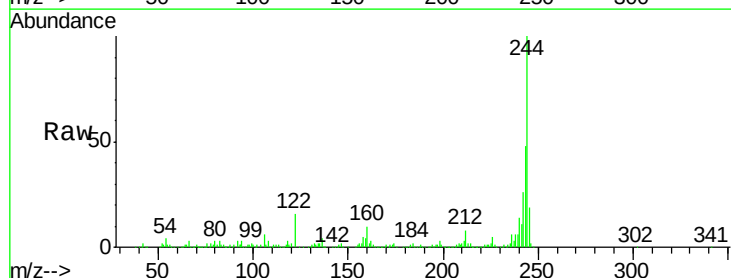
Tgt Ion:244 Resp: 466249

Ion Ratio Lower Upper

244 100

212 7.8 5.4 8.0

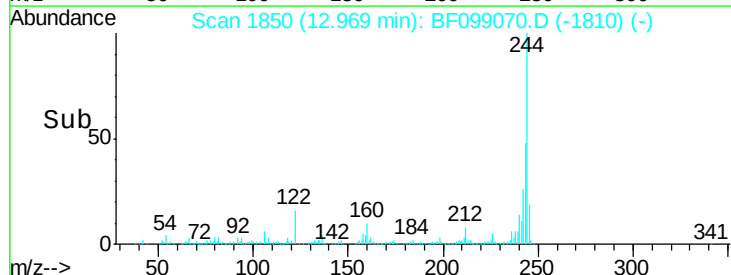
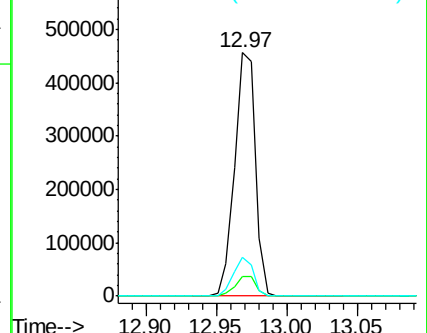
122 15.9 11.0 16.4

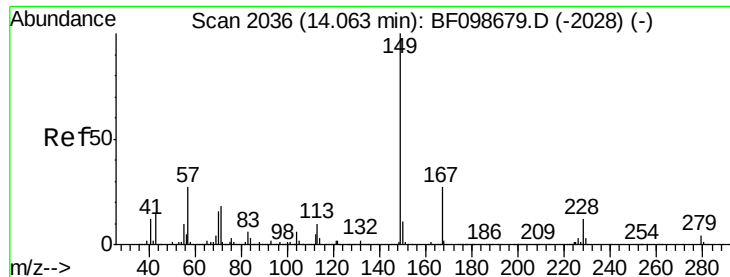


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

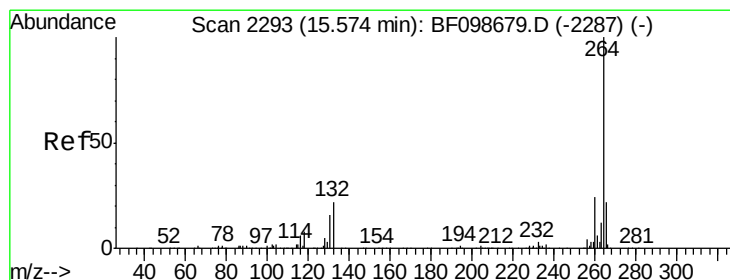
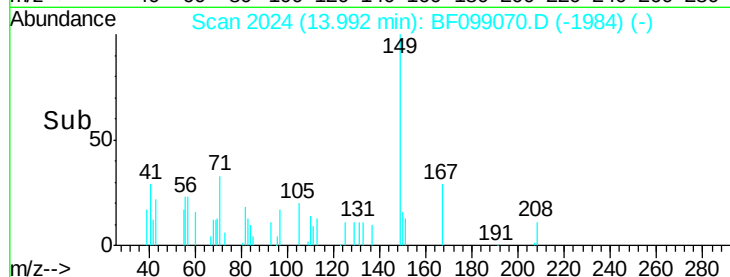
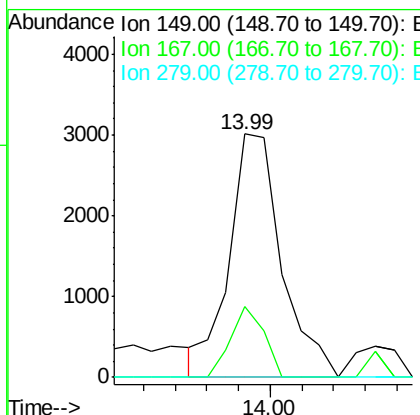
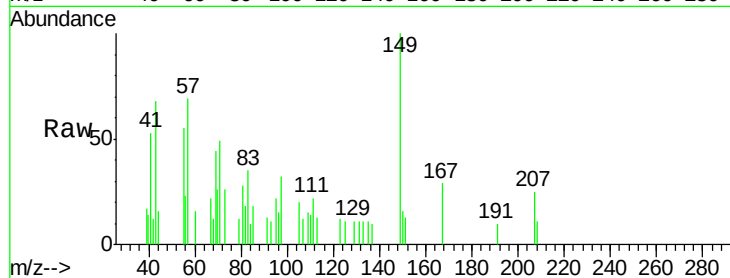




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.24 ng  
 RT: 13.99 min Scan# 2024  
 Delta R.T. -0.06 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

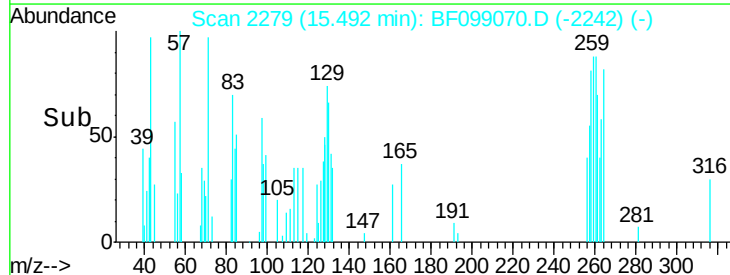
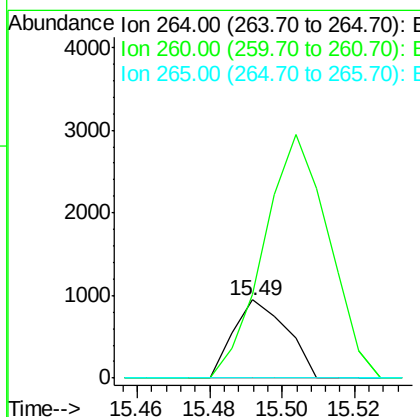
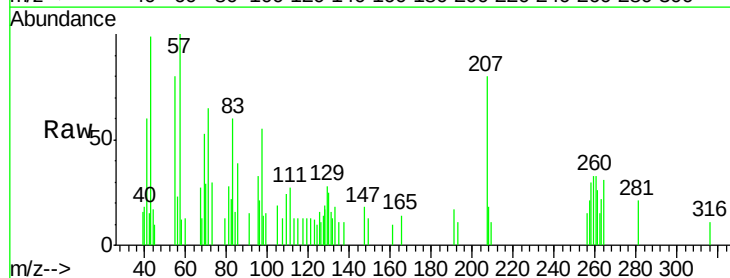
Instrument :  
 BNA\_F  
 ClientSampleId :

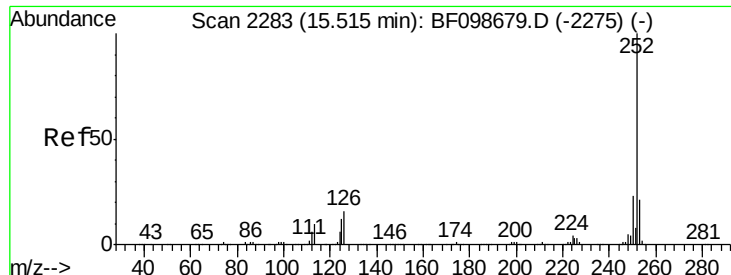
Tot Ion:149 Resp: 3443  
 Ion Ratio Lower Upper  
 149 100  
 167 29.2 21.3 31.9  
 279 0.0 3.0 4.4#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.49 min Scan# 2279  
 Delta R.T. -0.08 min  
 Lab File: BF099070.D  
 Acq: 4 Oct 2017 16:46

Tgt Ion:264 Resp: 964  
 Ion Ratio Lower Upper  
 264 100  
 260 107.8 19.2 28.8#  
 265 0.0 17.5 26.3#





#89

Benzo(a)pyrene

Concen: 28.32 ng

RT: 15.51 min Scan# 2282

Delta R.T. -0.01 min

Lab File: BF099070.D

Acq: 4 Oct 2017 16:46

Instrument :

BNA\_F

ClientSampleId :

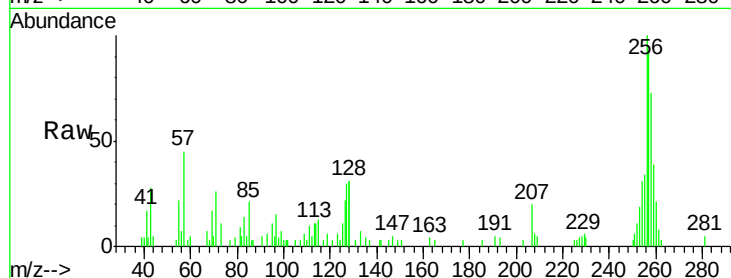
Tot Ion:252 Resp: 1541

Ion Ratio Lower Upper

252 100

253 175.3 17.1 25.7#

125 96.4 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

