

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070517\  
 Data File : BF096512.D  
 Acq On : 6 Jul 2017 5:10  
 Operator : SJ/MA  
 Sample : I3975-04  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 06 06:26:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 05 13:27:10 2017  
 Response via : Initial Calibration

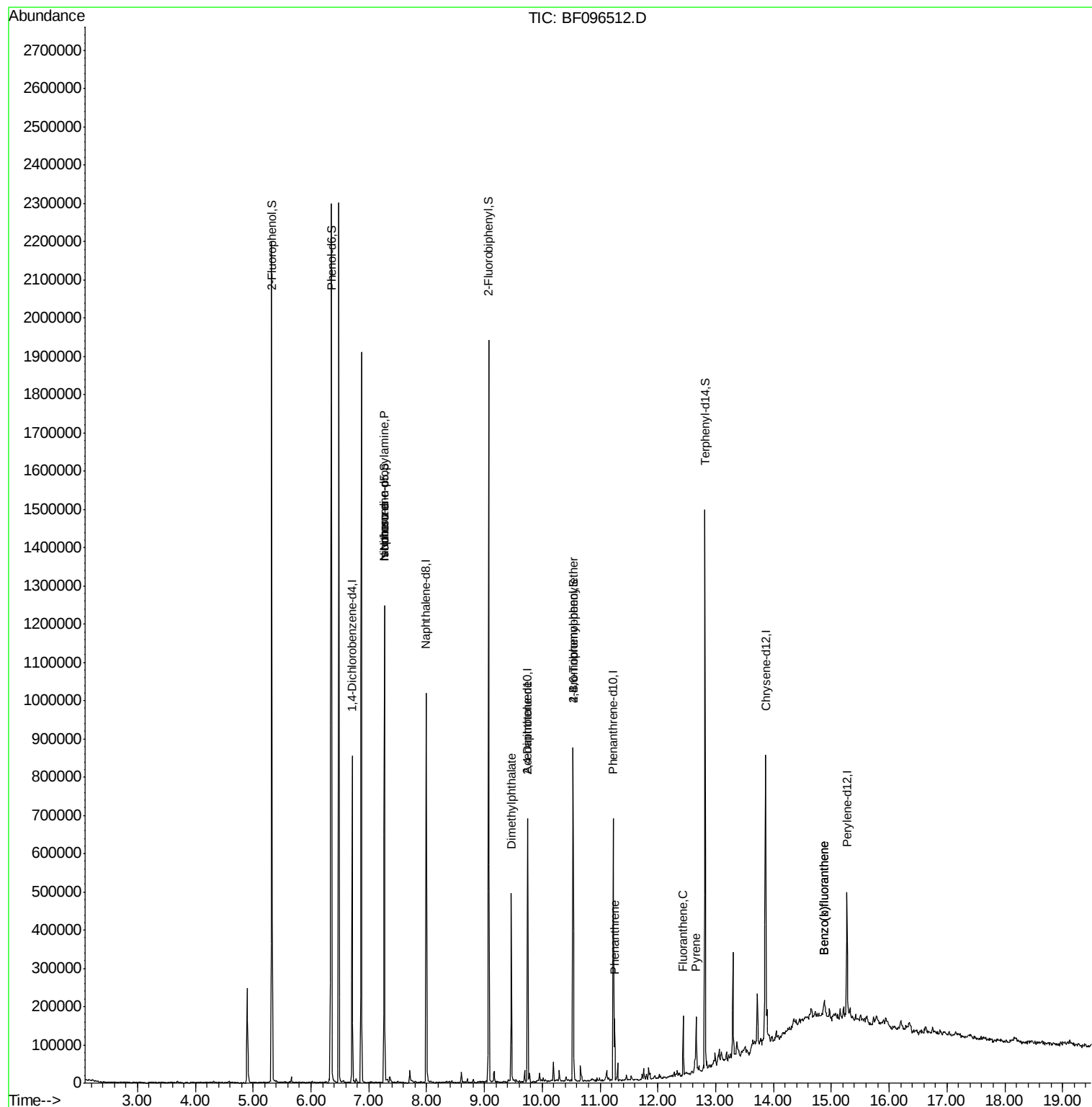
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 121179   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.99  | 136  | 449283   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.75  | 164  | 144466   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.23 | 188  | 229238   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 13.86 | 240  | 234773   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.27 | 264  | 145499   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 643445   | 78.37 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.35  | 99   | 736108   | 72.93 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.27  | 82   | 388255   | 51.93 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 91547    | 81.13 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 575584   | 68.12 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.82 | 244  | 433641   | 39.47 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.27  | 70   | 50386    | 8.38  | ng    | # 88     |
| 25) Isophorone                 | 7.27  | 82   | 386046   | 26.63 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.47  | 163  | 204246   | 18.94 | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 18648    | 6.17  | ng    | # 31     |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 5503     | 2.47  | ng    | # 1      |
| 70) Phenanthrene               | 11.25 | 178  | 52286    | 4.22  | ng    | 99       |
| 74) Fluoranthene               | 12.44 | 202  | 58155    | 4.79  | ng    | 95       |
| 77) Pyrene                     | 12.66 | 202  | 55664    | 2.95  | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 14.87 | 252  | 25464    | 2.79  | ng    | # 81     |
| 88) Benzo(k)fluoranthene       | 14.87 | 252  | 25464    | 3.12  | ng    | # 86     |

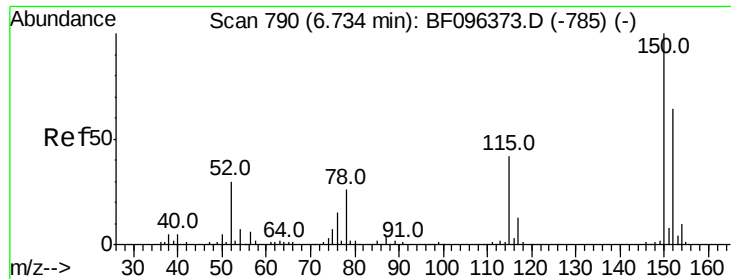
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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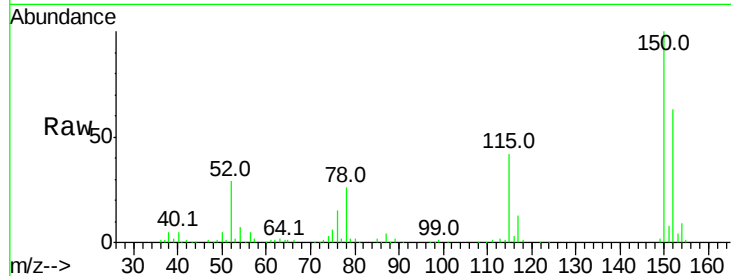


#1

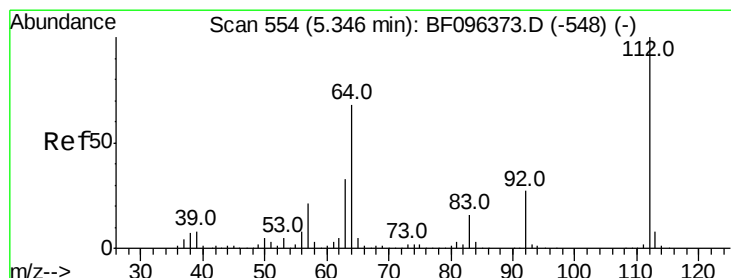
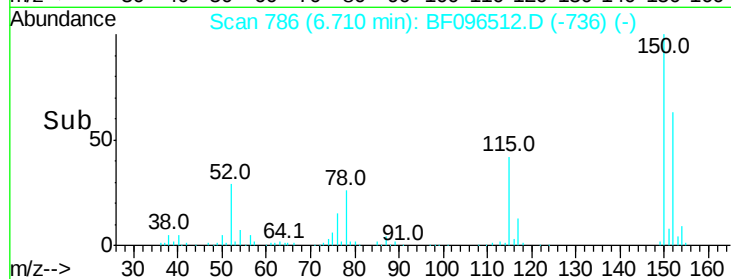
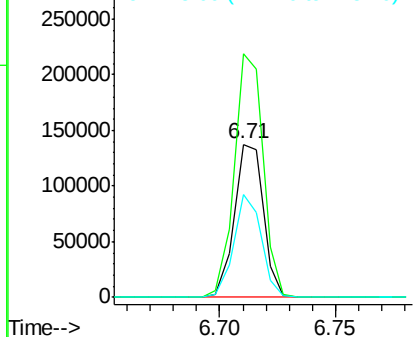
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.71 min Scan# 786  
Delta R.T. -0.01 min  
Lab File: BF096512.D  
Acq: 6 Jul 2017 5:10

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 121179  
Ion Ratio Lower Upper  
152 100  
150 158.8 126.2 189.2  
115 67.1 52.2 78.2



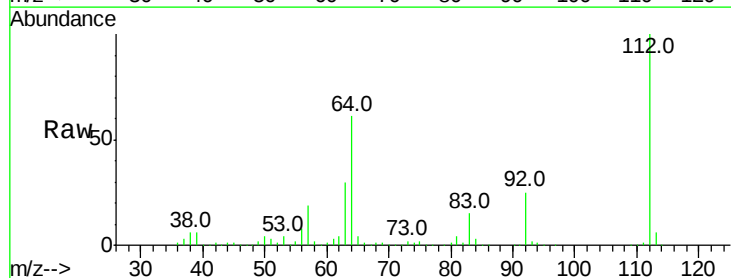
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



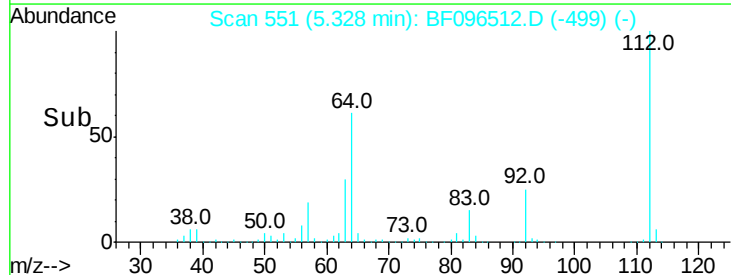
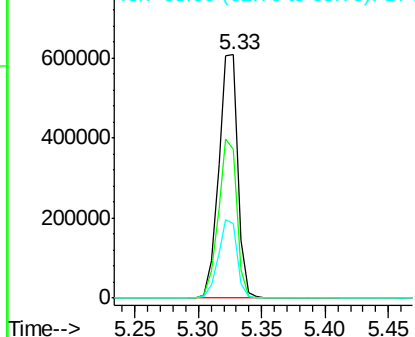
#5

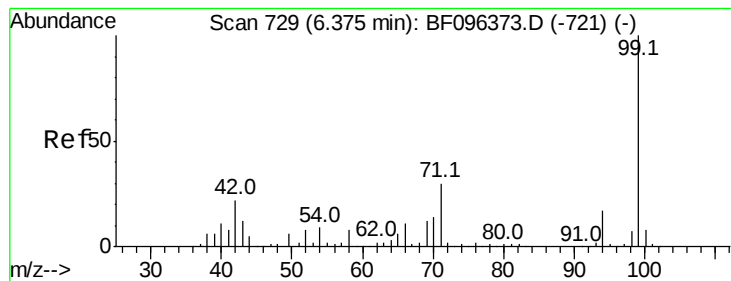
2-Fluorophenol  
Concen: 78.37 ng  
RT: 5.33 min Scan# 551  
Delta R.T. 0.01 min  
Lab File: BF096512.D  
Acq: 6 Jul 2017 5:10

Tgt Ion:112 Resp: 643445  
Ion Ratio Lower Upper  
112 100  
64 61.1 46.0 69.0  
63 30.4 23.4 35.0



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: 72.93 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

Instrument :

BNA\_F

ClientSampleId :

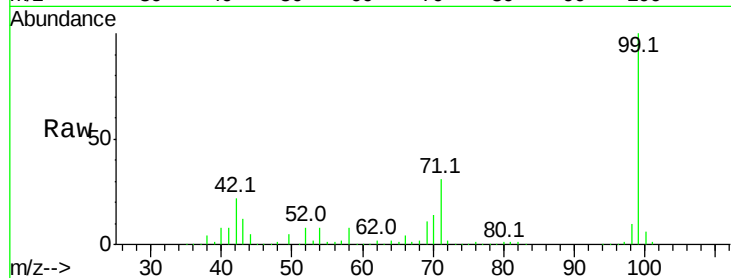
Tot Ion: 99 Resp: 736108

Ion Ratio Lower Upper

99 100

42 21.7 13.5 20.3#

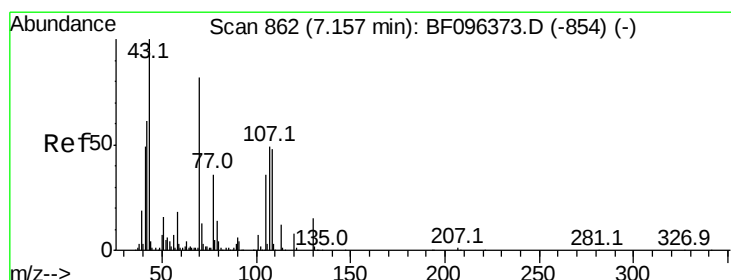
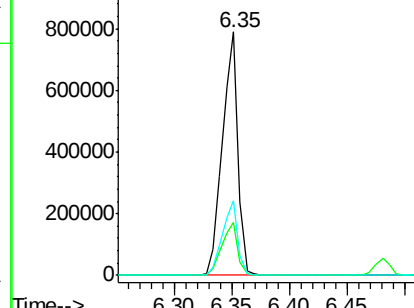
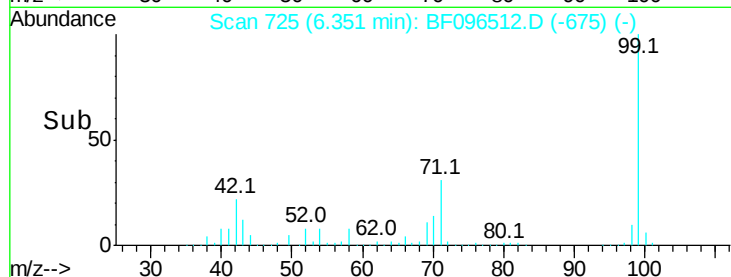
71 30.7 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 8.38 ng

RT: 7.27 min Scan# 881

Delta R.T. 0.14 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

Tgt Ion: 70 Resp: 50386

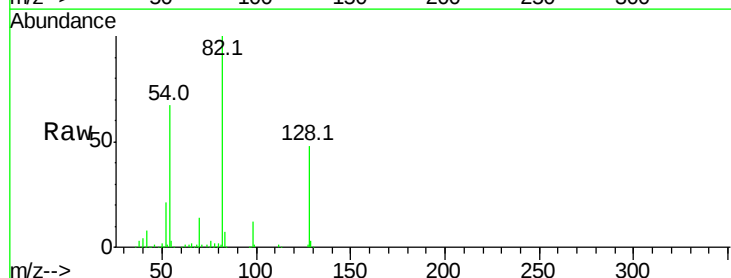
Ion Ratio Lower Upper

70 100

42 59.3 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

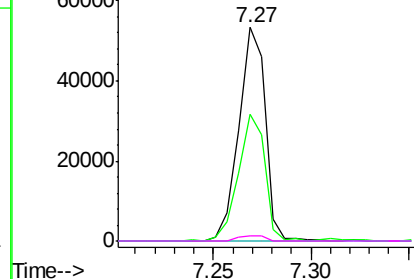
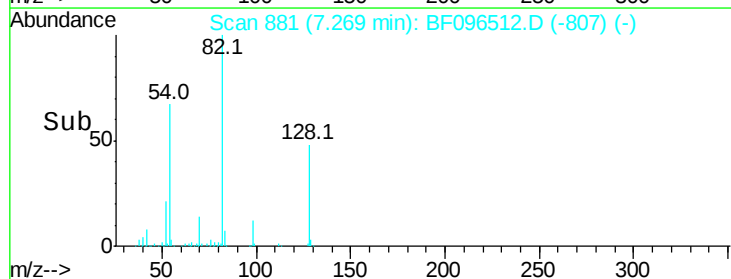


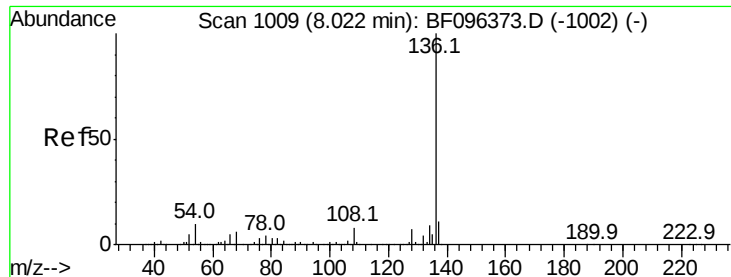
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.99 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF096512.D

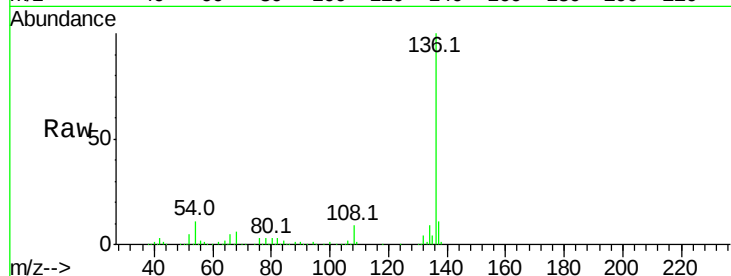
Acq: 6 Jul 2017 5:10

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 449283 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.5   | 12.7   |
| 54       | 10.7  | 4.9   | 7.3#   |
| 68       | 5.9   | 4.1   | 6.1    |

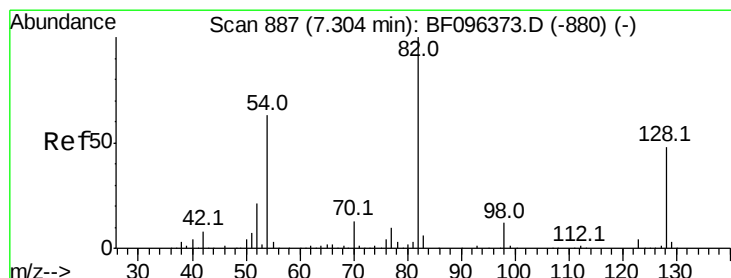
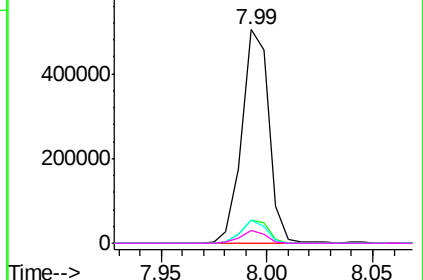
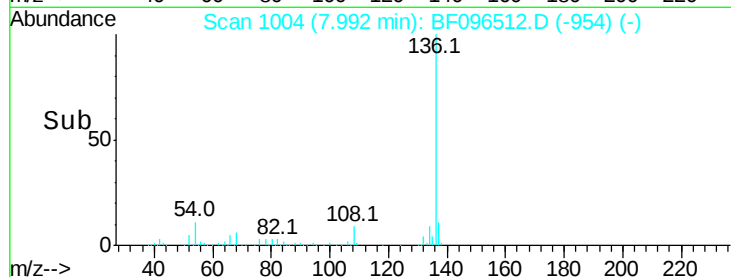


Abundance Ion 136.00 (135.70 to 136.70): E

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: 51.93 ng

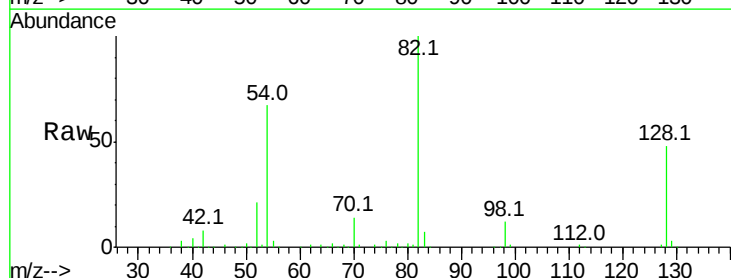
RT: 7.27 min Scan# 881

Delta R.T. -0.01 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

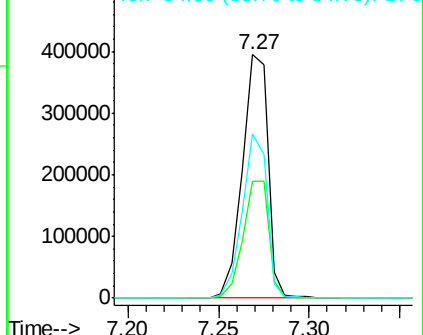
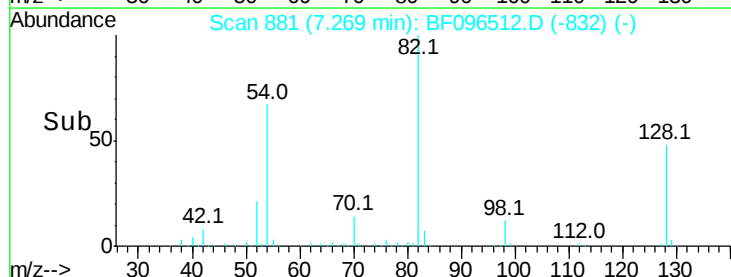
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 388255 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.9  | 34.0  | 51.0   |
| 54       | 67.4  | 42.2  | 63.2#  |

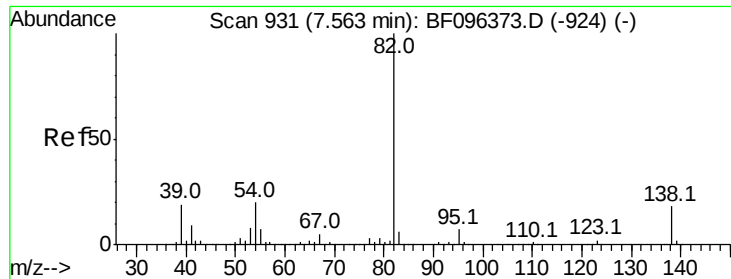


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 26.63 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.27 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

Instrument :

BNA\_F

ClientSampleId :

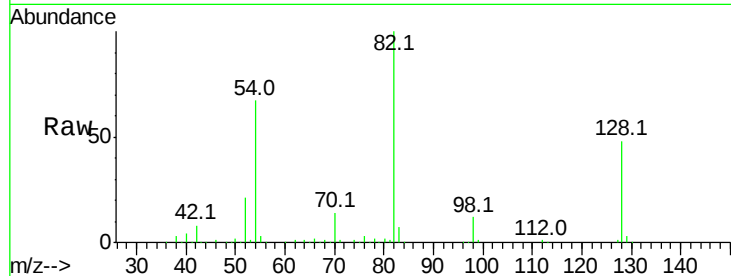
Tot Ion: 82 Resp: 386046

Ion Ratio Lower Upper

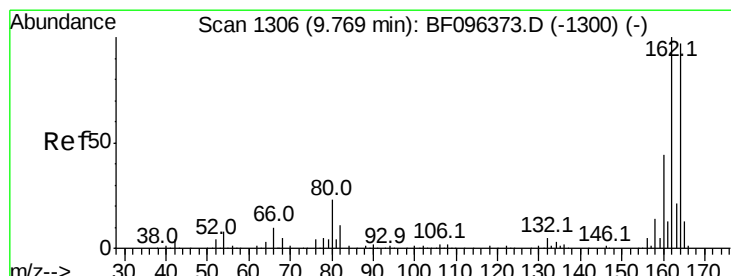
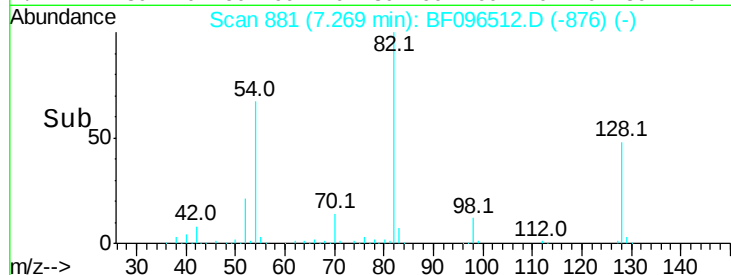
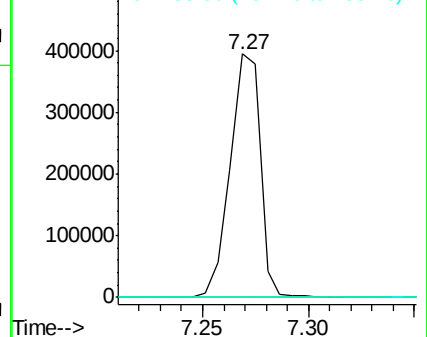
82 100

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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

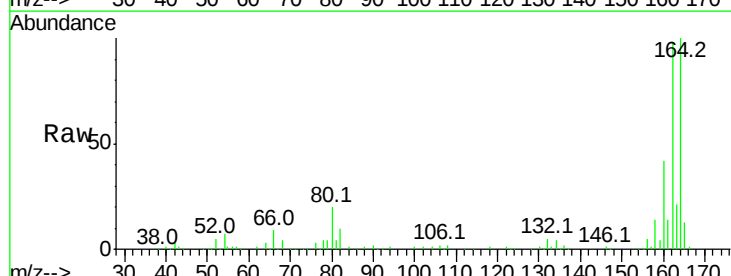
Tgt Ion:164 Resp: 144466

Ion Ratio Lower Upper

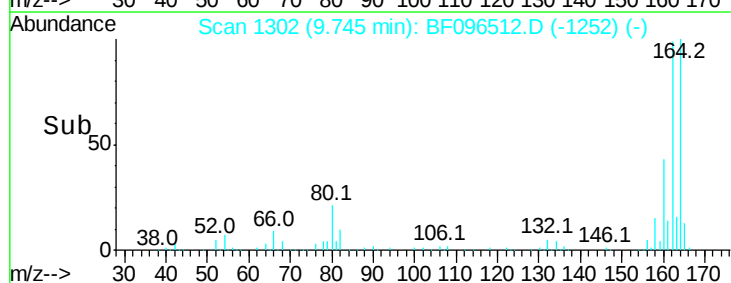
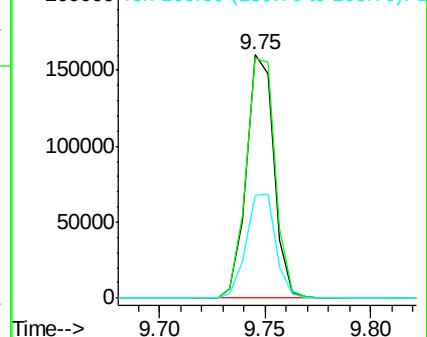
164 100

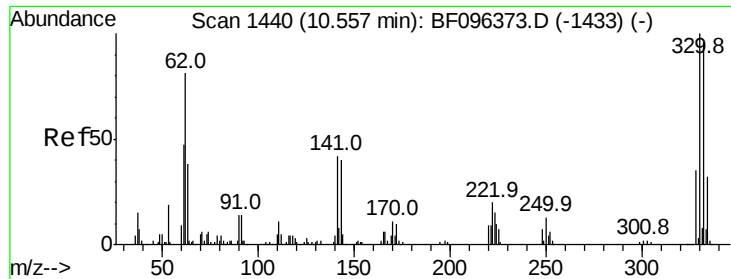
162 98.3 82.6 123.8

160 42.4 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

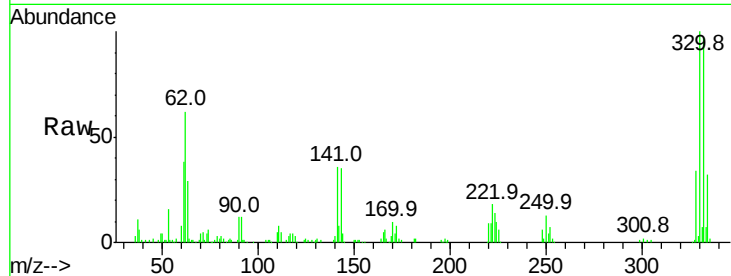




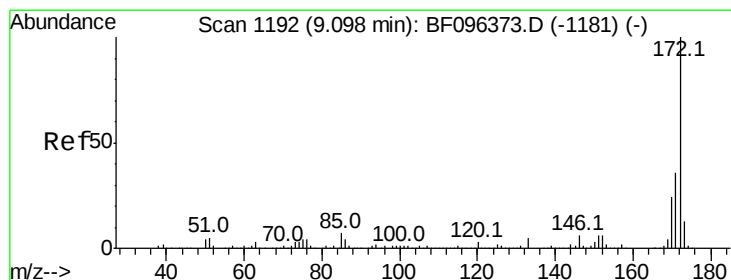
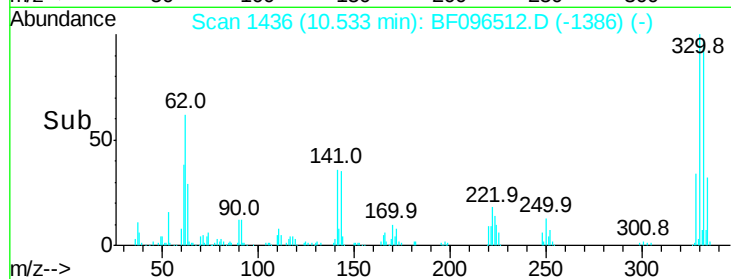
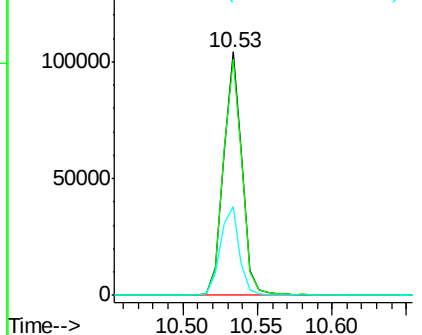
#41  
 2,4,6-Tribromophenol  
 Concen: 81.13 ng  
 RT: 10.53 min Scan# 1436  
 Delta R.T. -0.01 min  
 Lab File: BF096512.D  
 Acq: 6 Jul 2017 5:10

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 91547  
 Ion Ratio Lower Upper  
 330 100  
 332 97.9 76.6 115.0  
 141 37.2 31.4 47.2

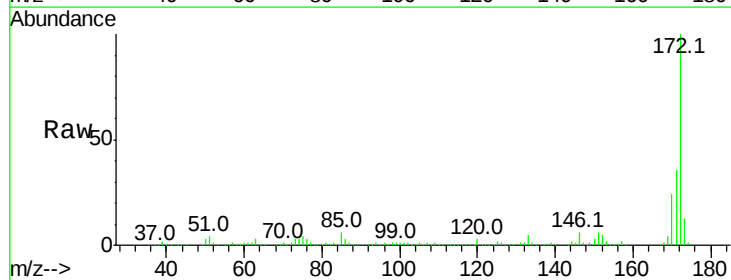


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

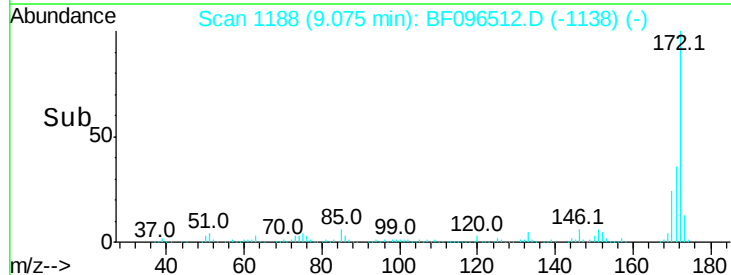
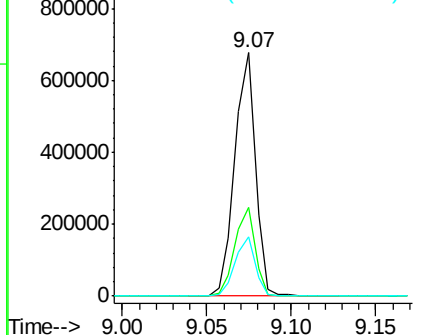


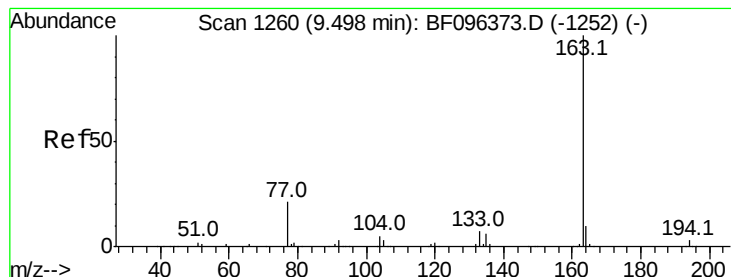
#44  
 2-Fluorobiphenyl  
 Concen: 68.12 ng  
 RT: 9.07 min Scan# 1188  
 Delta R.T. -0.01 min  
 Lab File: BF096512.D  
 Acq: 6 Jul 2017 5:10

Tgt Ion:172 Resp: 575584  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.6 44.4  
 170 24.4 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: 18.94 ng

RT: 9.47 min Scan# 1255

Delta R.T. -0.01 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

Instrument :

BNA\_F

ClientSampleId :

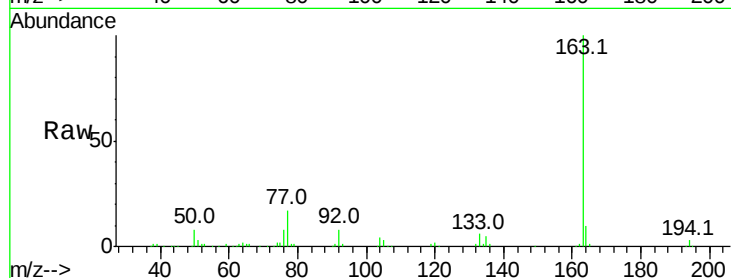
Tot Ion:163 Resp: 204246

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

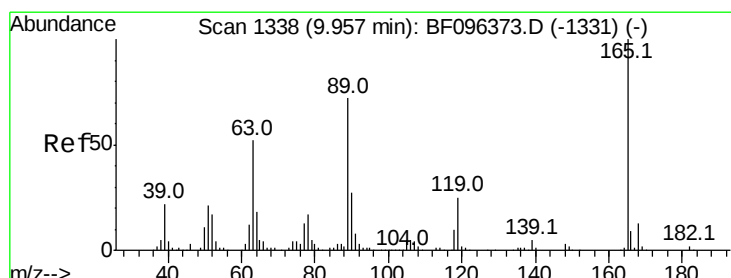
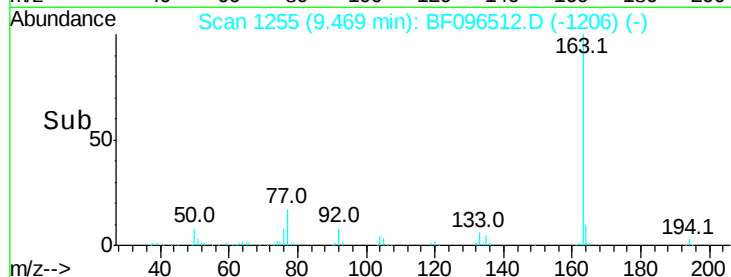
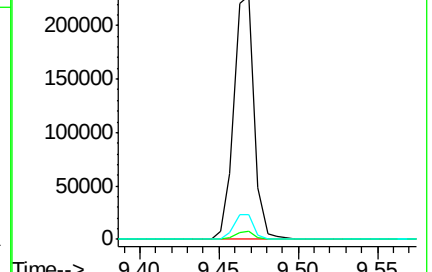
164 10.1 8.4 12.6



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: 6.17 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.19 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

Tgt Ion:165 Resp: 18648

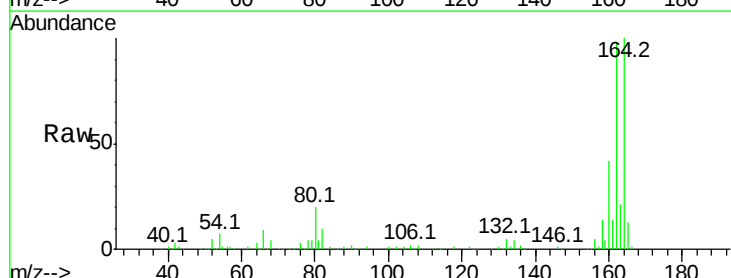
Ion Ratio Lower Upper

165 100

63 0.0 25.4 38.0#

89 0.0 46.4 69.6#

182 0.0 1.8 2.6#

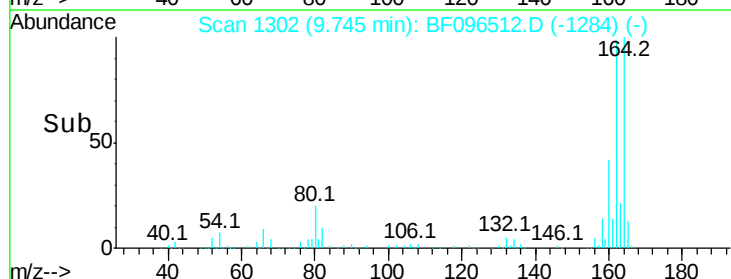
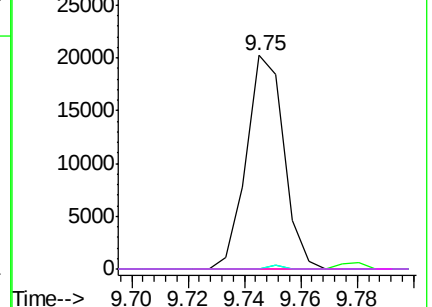


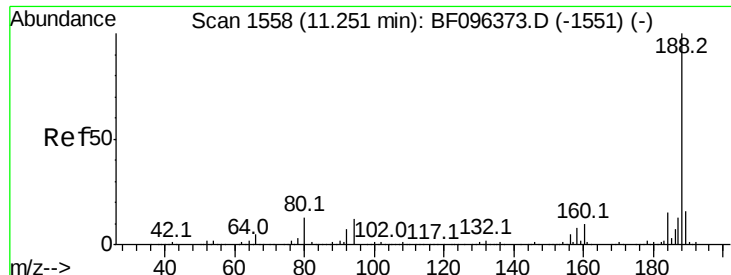
Abundance Ion 165.00 (164.70 to 165.70): E

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

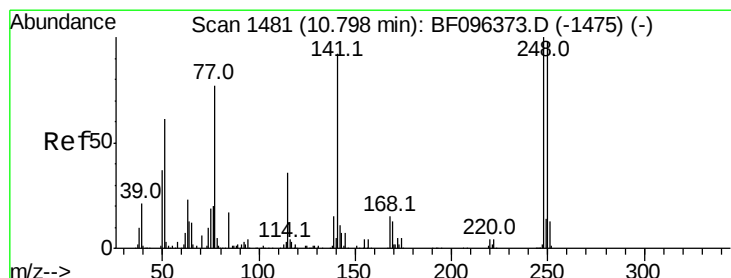
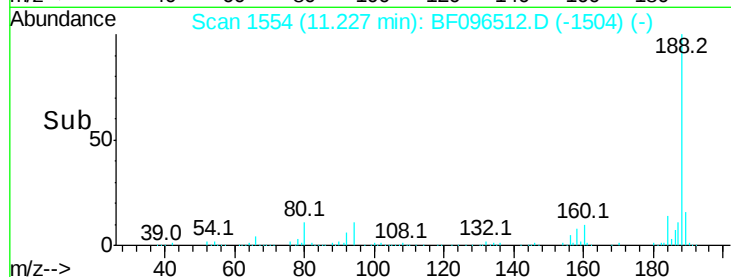
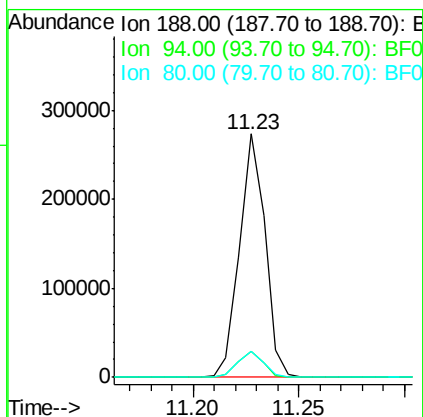
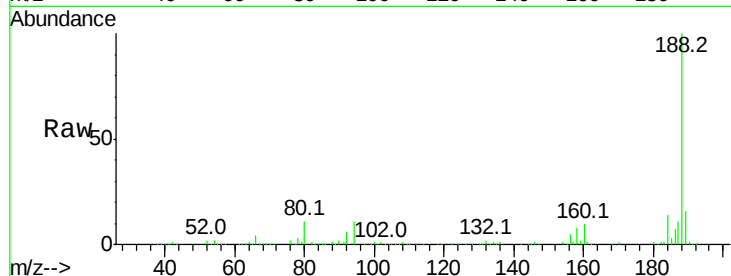




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.23 min Scan# 1554  
 Delta R.T. -0.01 min  
 Lab File: BF096512.D  
 Acq: 6 Jul 2017 5:10

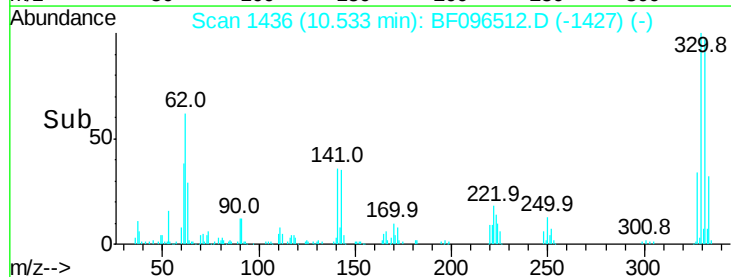
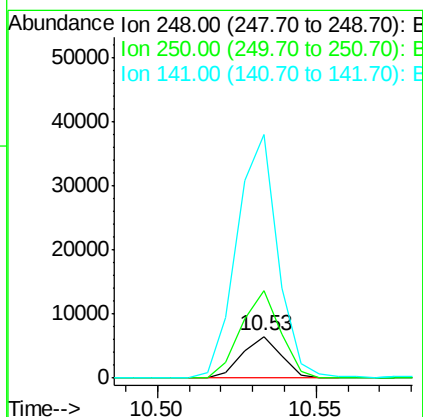
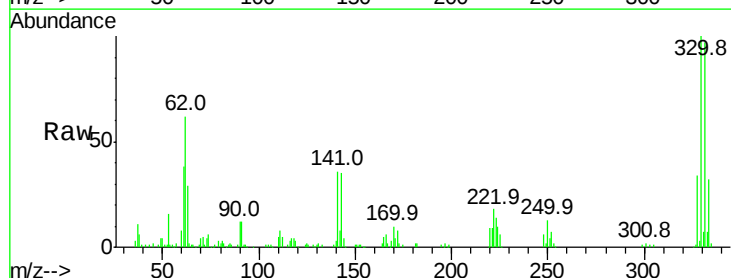
Instrument :  
 BNA\_F  
 ClientSampleId :

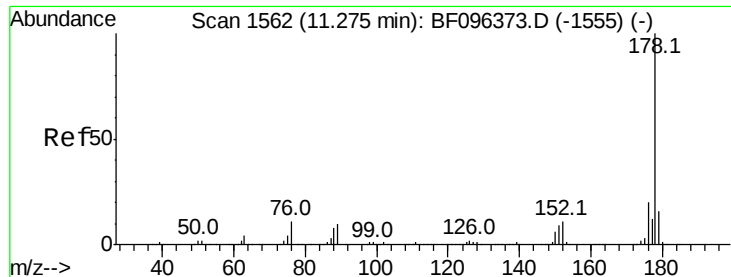
Tot Ion:188 Resp: 229238  
 Ion Ratio Lower Upper  
 188 100  
 94 10.7 9.4 14.2  
 80 10.8 10.2 15.2



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.47 ng  
 RT: 10.53 min Scan# 1436  
 Delta R.T. -0.25 min  
 Lab File: BF096512.D  
 Acq: 6 Jul 2017 5:10

Tgt Ion:248 Resp: 5503  
 Ion Ratio Lower Upper  
 248 100  
 250 209.6 76.8 115.2#  
 141 581.3 68.6 103.0#

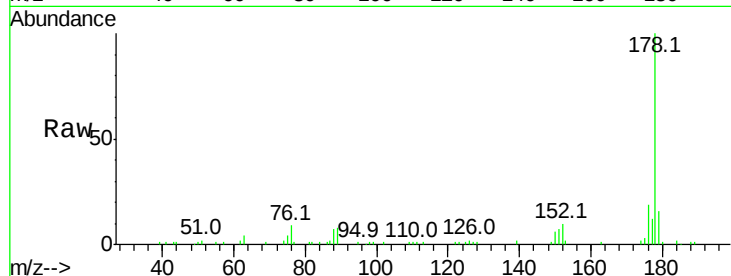




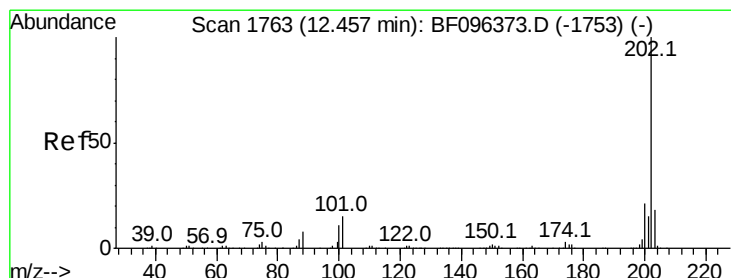
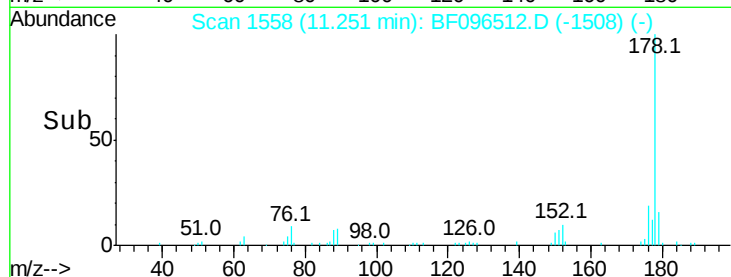
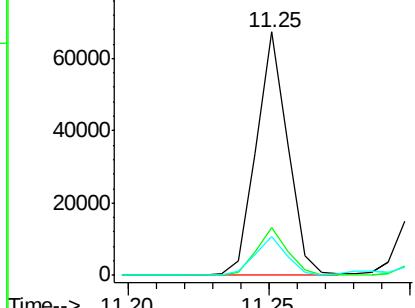
#70  
Phenanthrene  
Concen: 4.22 ng  
RT: 11.25 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: BF096512.D  
Acq: 6 Jul 2017 5:10

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:178 Resp: 52286  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.2 24.4  
179 15.8 12.6 19.0

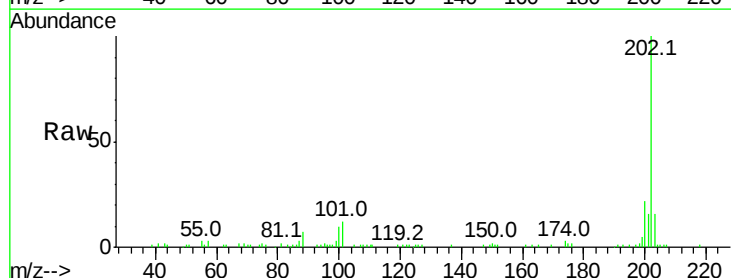


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

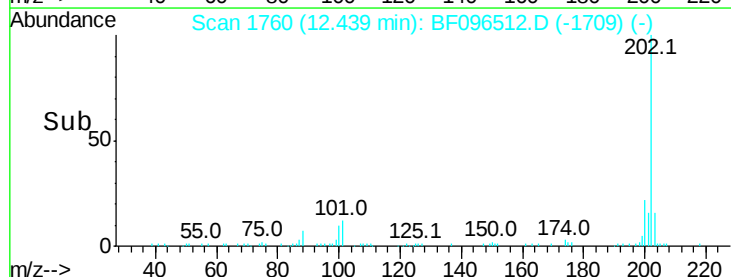
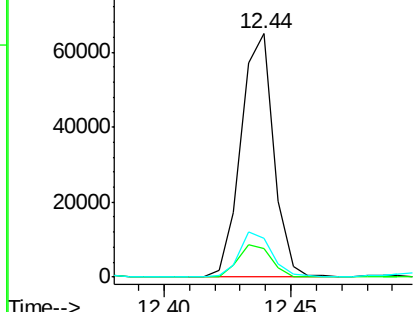


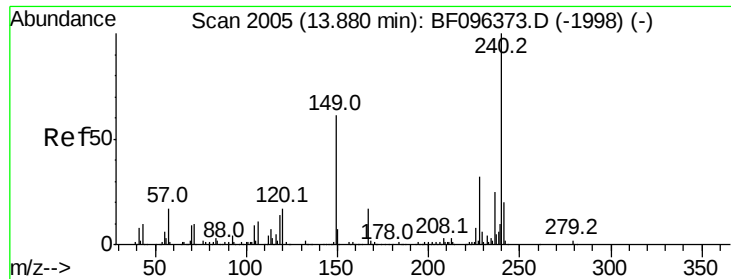
#74  
Fluoranthene  
Concen: 4.79 ng  
RT: 12.44 min Scan# 1760  
Delta R.T. -0.00 min  
Lab File: BF096512.D  
Acq: 6 Jul 2017 5:10

Tgt Ion:202 Resp: 58155  
Ion Ratio Lower Upper  
202 100  
101 11.6 0.0 33.2  
203 15.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

Instrument :

BNA\_F

ClientSampleId :

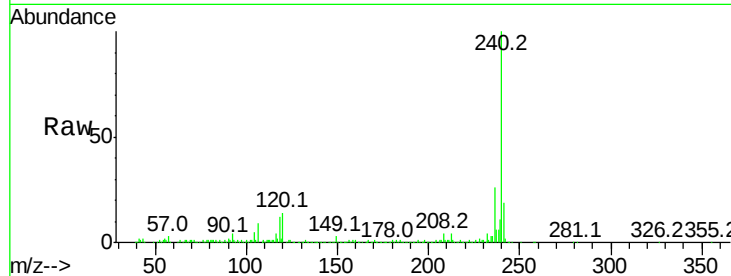
Tot Ion:240 Resp: 234773

Ion Ratio Lower Upper

240 100

120 14.0 5.8 8.8#

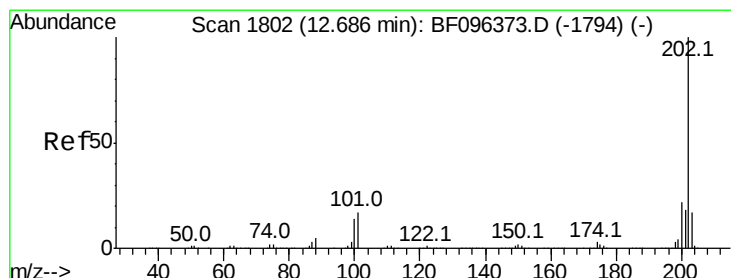
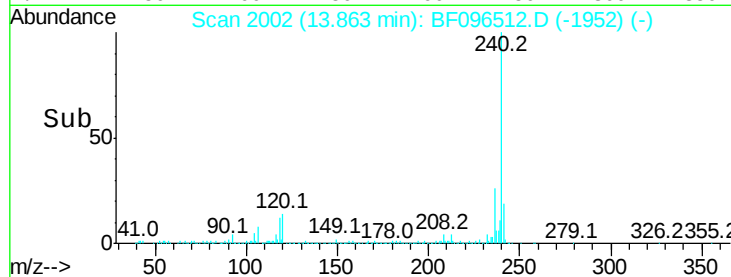
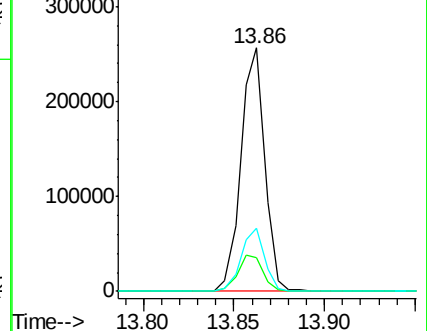
236 25.8 20.5 30.7



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



#77

Pyrene

Concen: 2.95 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.01 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

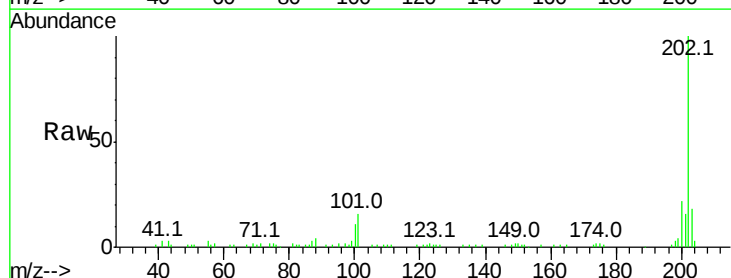
Tgt Ion:202 Resp: 55664

Ion Ratio Lower Upper

202 100

200 21.7 17.6 26.4

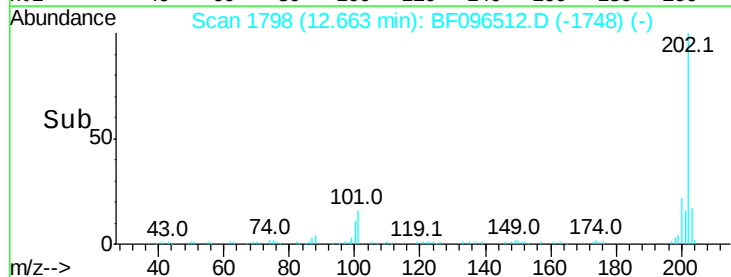
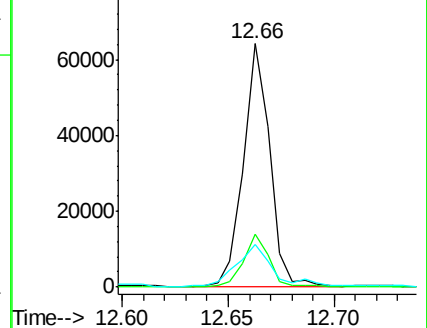
203 17.7 14.4 21.6

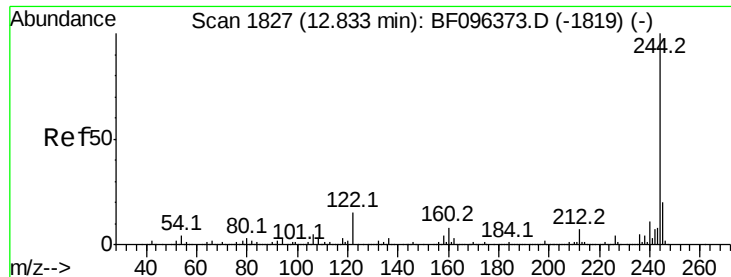


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

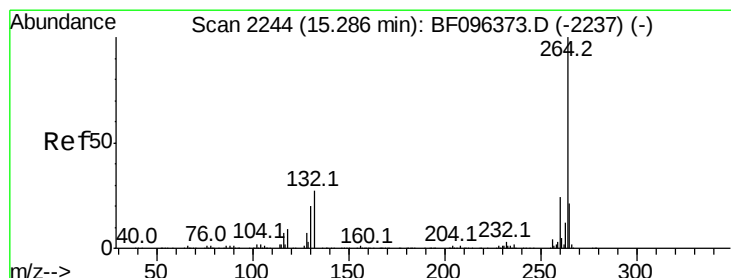
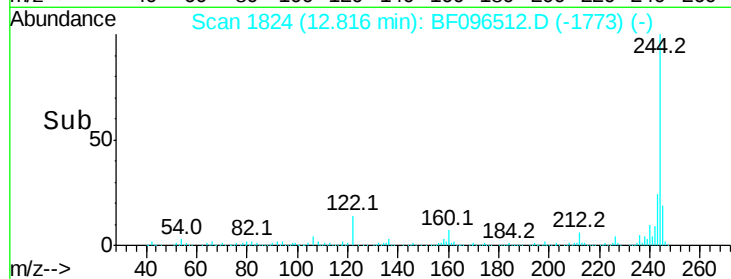
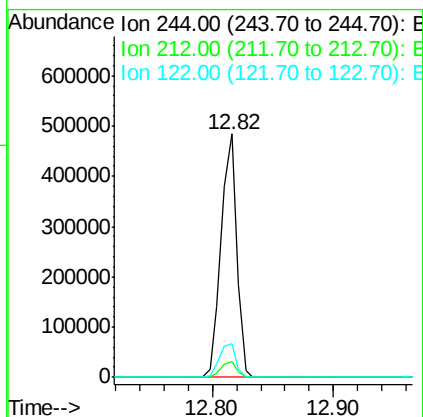
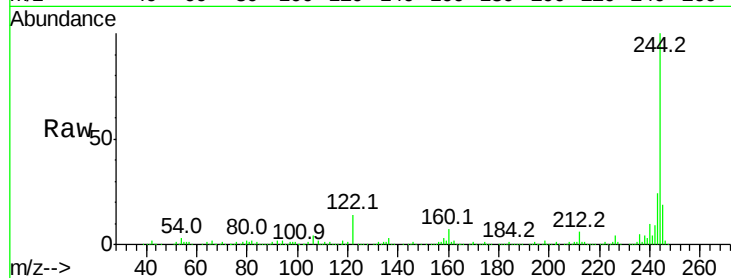




#78  
 Terphenyl-d14  
 Concen: 39.47 ng  
 RT: 12.82 min Scan# 1824  
 Delta R.T. -0.00 min  
 Lab File: BF096512.D  
 Acq: 6 Jul 2017 5:10

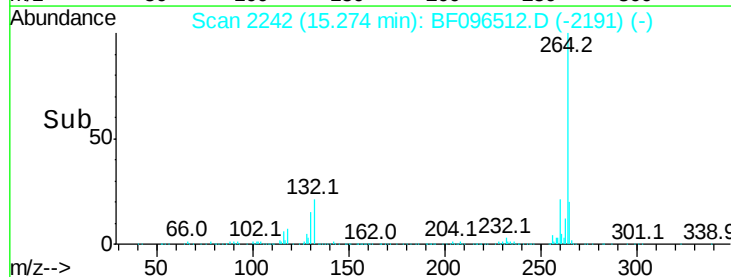
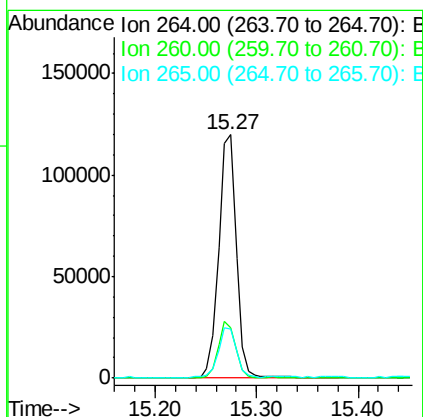
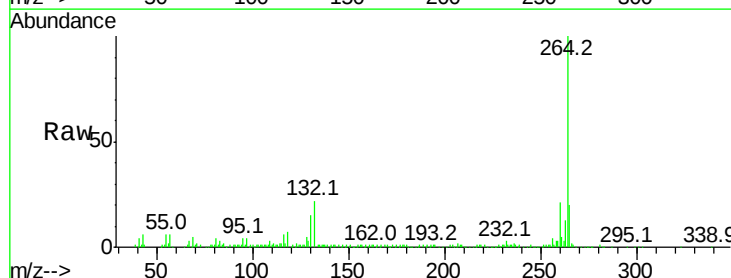
Instrument :  
 BNA\_F  
 ClientSampleId :

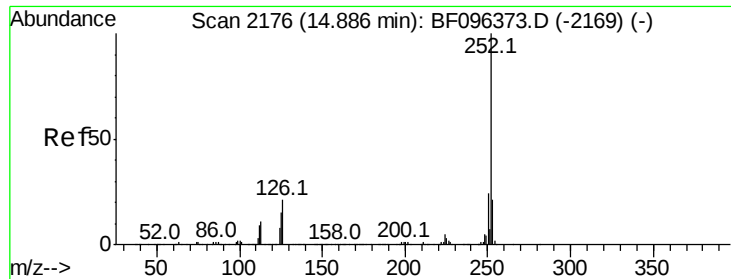
Tot Ion:244 Resp: 433641  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 6.0 9.0  
 122 13.9 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.27 min Scan# 2242  
 Delta R.T. -0.00 min  
 Lab File: BF096512.D  
 Acq: 6 Jul 2017 5:10

Tgt Ion:264 Resp: 145499  
 Ion Ratio Lower Upper  
 264 100  
 260 20.9 19.5 29.3  
 265 20.3 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 2.79 ng

RT: 14.87 min Scan# 2174

Delta R.T. -0.00 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

Instrument :

BNA\_F

ClientSampleId :

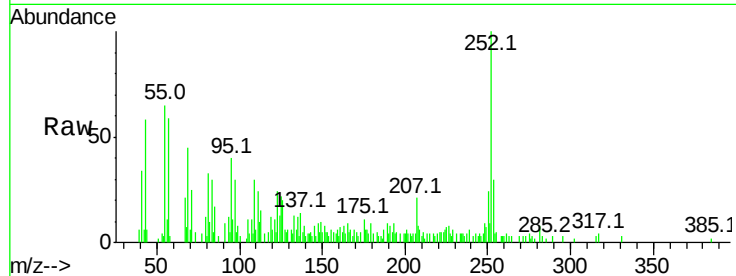
Tot Ion:252 Resp: 25464

Ion Ratio Lower Upper

252 100

253 29.8 18.1 27.1#

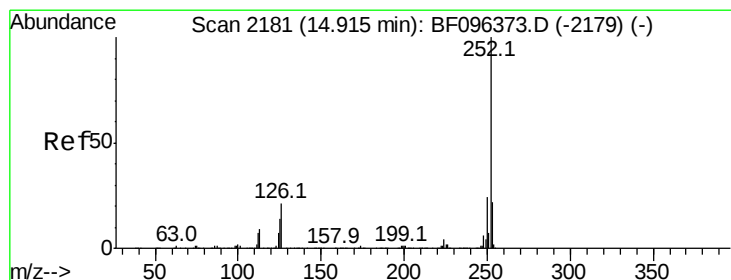
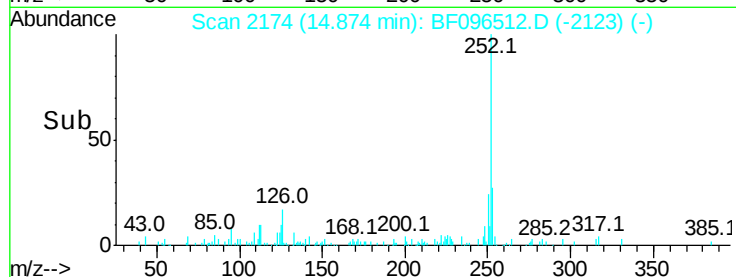
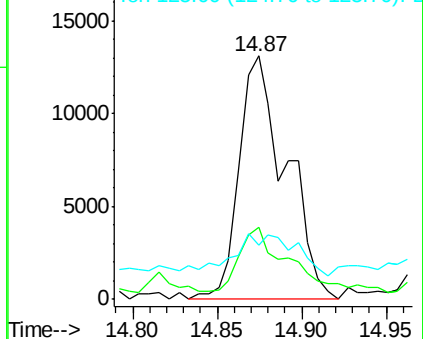
125 22.1 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 3.12 ng

RT: 14.87 min Scan# 2174

Delta R.T. -0.03 min

Lab File: BF096512.D

Acq: 6 Jul 2017 5:10

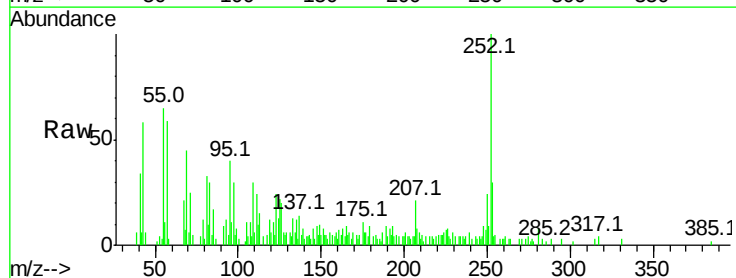
Tgt Ion:252 Resp: 25464

Ion Ratio Lower Upper

252 100

253 29.8 18.4 27.6#

125 22.1 13.1 19.7#



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

