

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097177.D  
 Acq On : 29 Jul 2017 2:05  
 Operator : SJ/JU  
 Sample : I4456-11  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-16D24

Quant Time: Jul 29 03:13:20 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

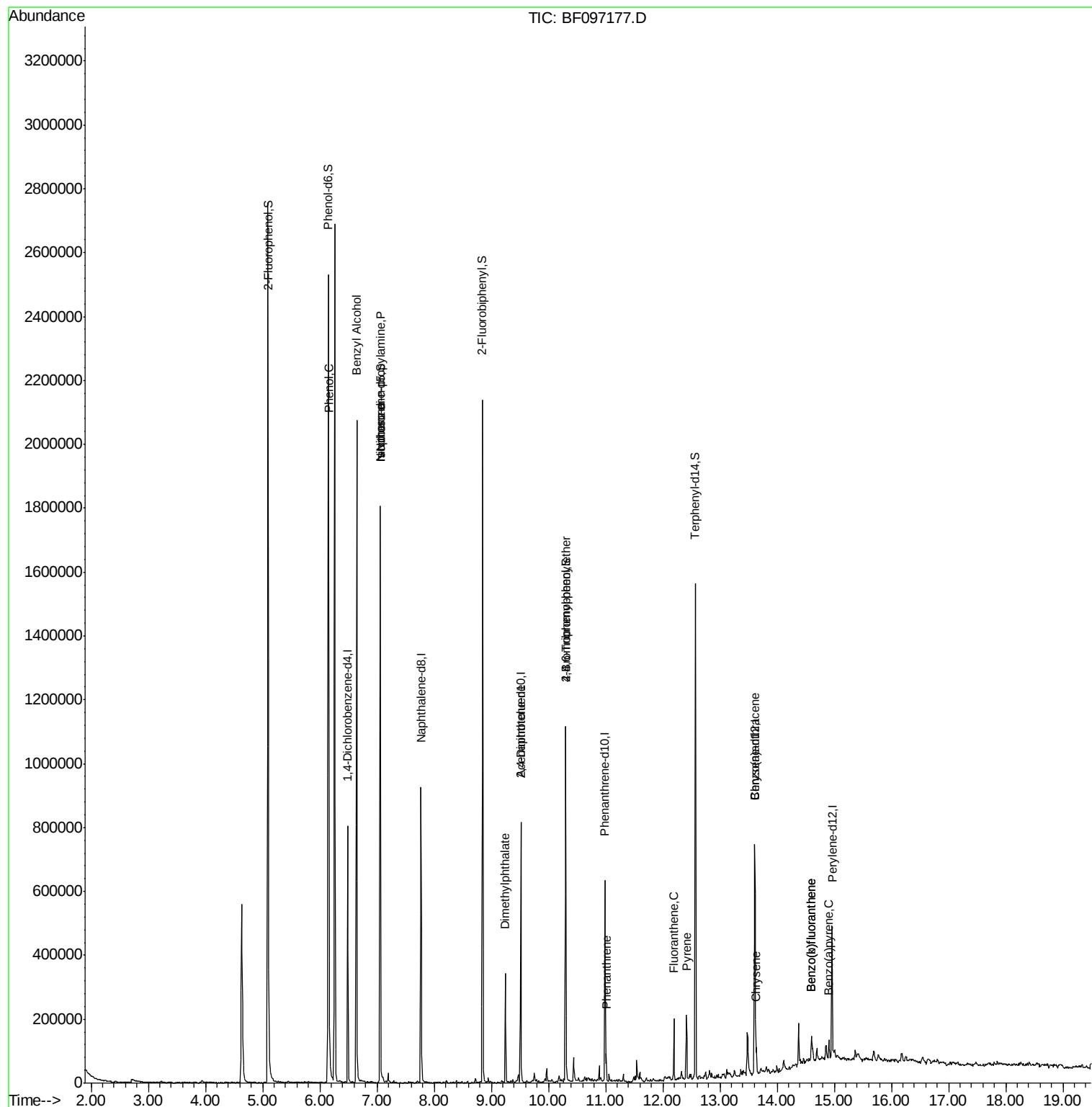
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.49  | 152  | 110172   | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8             | 7.77  | 136  | 385419   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10           | 9.52  | 164  | 155814   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10           | 10.99 | 188  | 204945   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12               | 13.61 | 240  | 220353   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12               | 14.96 | 264  | 159212   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.09  | 112  | 829763   | 113.54 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.15  | 99   | 963808   | 115.52 | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.06  | 82   | 547829   | 83.38  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 10.30 | 330  | 116526   | 94.65  | ng    | -0.02     |
| 44) 2-Fluorobiphenyl           | 8.85  | 172  | 706160   | 76.91  | ng    | -0.02     |
| 78) Terphenyl-d14              | 12.57 | 244  | 493716   | 45.68  | ng    | -0.01     |
| Target Compounds               |       |      |          |        |       |           |
| 10) Phenol                     | 6.16  | 94   | 27219    | 2.75   | ng    | Qvalue 97 |
| 15) Benzyl Alcohol             | 6.64  | 79   | 11177    | 2.12   | ng    | # 46      |
| 19) n-Nitroso-di-n-propylamine | 7.06  | 70   | 73564    | 13.40  | ng    | # 88      |
| 25) Isophorone                 | 7.06  | 82   | 542009   | 42.13  | ng    | # 67      |
| 49) Dimethylphthalate          | 9.25  | 163  | 129458   | 10.94  | ng    | 98        |
| 56) 2,4-Dinitrotoluene         | 9.52  | 165  | 19272    | 6.68   | ng    | # 34      |
| 66) 4-Bromophenyl-phenylether  | 10.30 | 248  | 7500     | 3.67   | ng    | # 1       |
| 70) Phenanthrene               | 11.01 | 178  | 29978    | 2.73   | ng    | 99        |
| 74) Fluoranthene               | 12.19 | 202  | 69352    | 6.45   | ng    | 94        |
| 77) Pyrene                     | 12.42 | 202  | 63635    | 3.53   | ng    | 97        |
| 80) Benzo(a)anthracene         | 13.60 | 228  | 32771    | 2.30   | ng    | 95        |
| 82) Chrysene                   | 13.64 | 228  | 31149    | 2.24   | ng    | 96        |
| 87) Benzo(b)fluoranthene       | 14.60 | 252  | 43603    | 4.56   | ng    | # 94      |
| 88) Benzo(k)fluoranthene       | 14.60 | 252  | 43603    | 4.78   | ng    | 98        |
| 89) Benzo(a)pyrene             | 14.91 | 252  | 22481    | 2.57   | ng    | # 90      |

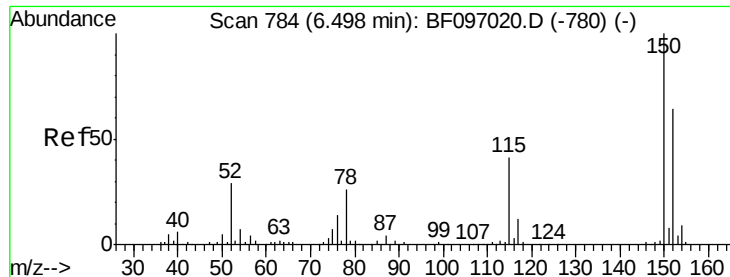
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
Data File : BF097177.D  
Acq On : 29 Jul 2017 2:05  
Operator : SJ/JU  
Sample : I4456-11  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-16D24

Quant Time: Jul 29 03:13:20 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 14:11:51 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.49 min Scan# 782

Delta R.T. -0.01 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

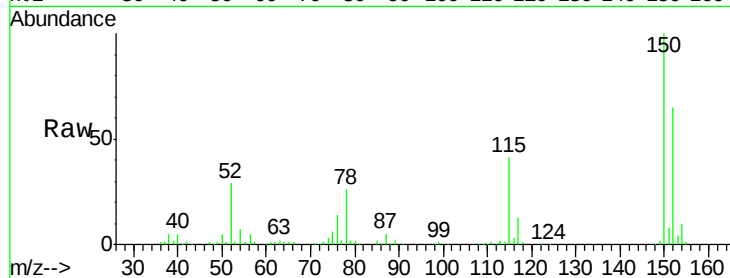
Tot Ion:152 Resp: 110172

Ion Ratio Lower Upper

152 100

150 154.8 126.2 189.2

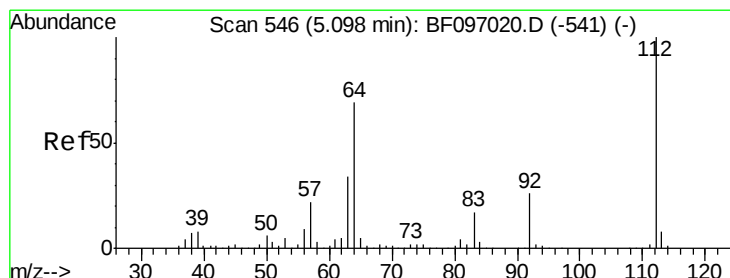
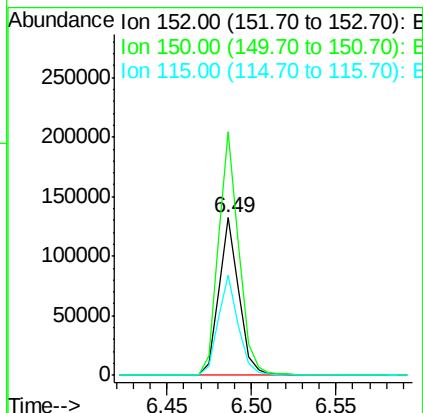
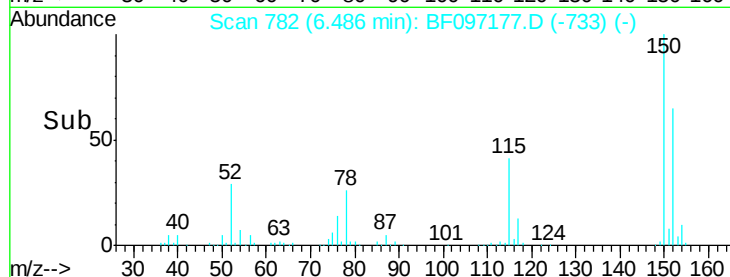
115 63.4 52.2 78.2



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: 113.54 ng

RT: 5.09 min Scan# 545

Delta R.T. -0.01 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

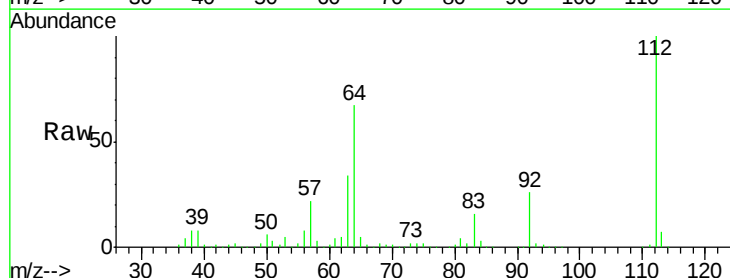
Tgt Ion:112 Resp: 829763

Ion Ratio Lower Upper

112 100

64 67.0 46.0 69.0

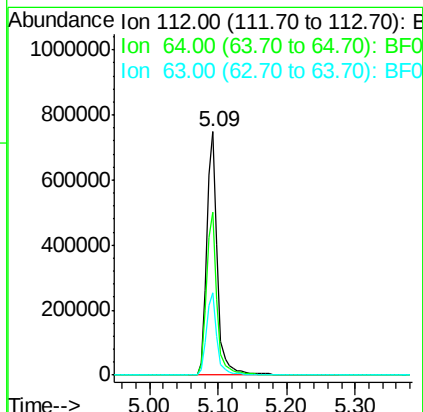
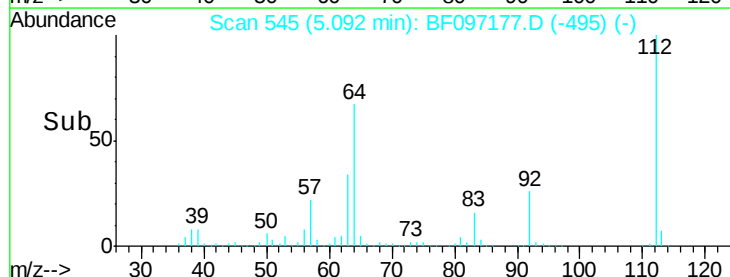
63 34.1 23.4 35.0

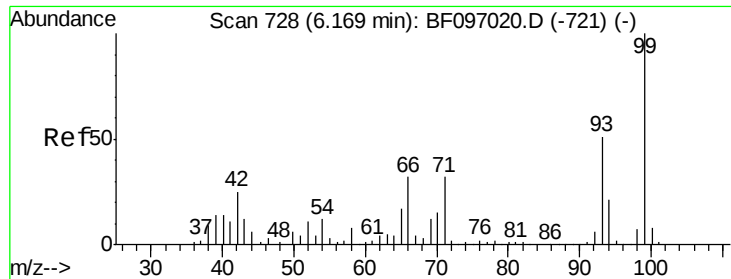


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 115.52 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampled :

TP-16D24

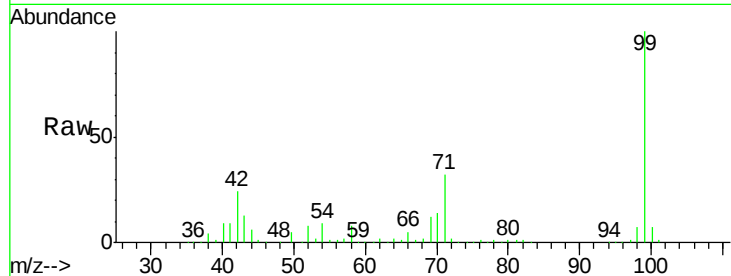
Tot Ion: 99 Resp: 963808

Ion Ratio Lower Upper

99 100

42 24.2 13.5 20.3#

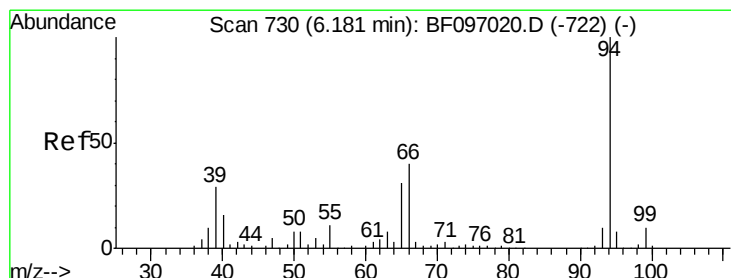
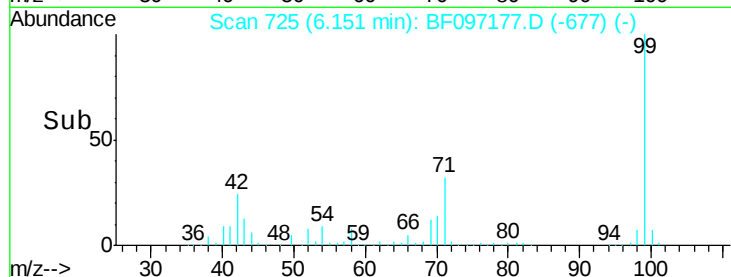
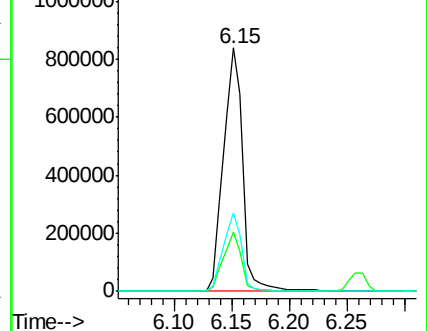
71 32.1 24.5 36.7



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: 2.75 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

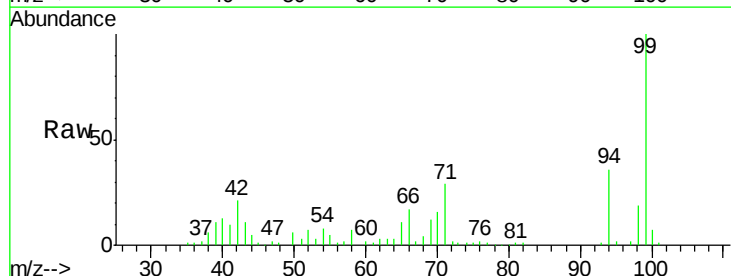
Tgt Ion: 94 Resp: 27219

Ion Ratio Lower Upper

94 100

65 30.2 9.9 49.9

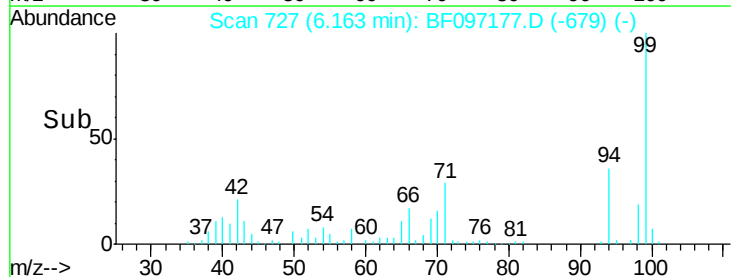
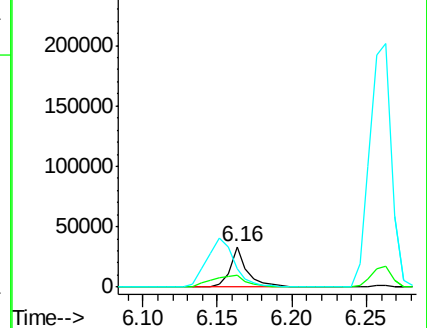
66 46.5 23.1 63.1

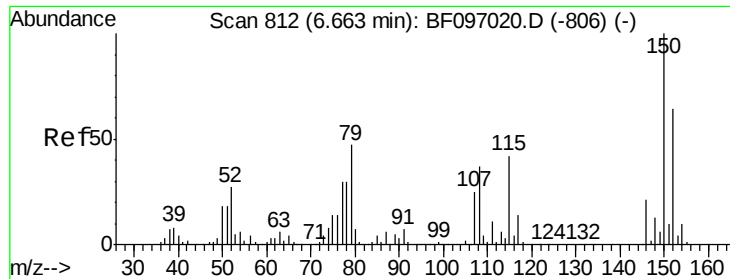


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.12 ng

RT: 6.64 min Scan# 808

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

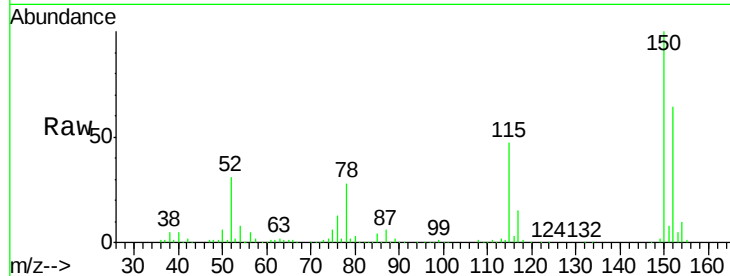
Tot Ion: 79 Resp: 11177

Ion Ratio Lower Upper

79 100

108 27.4 63.4 95.0#

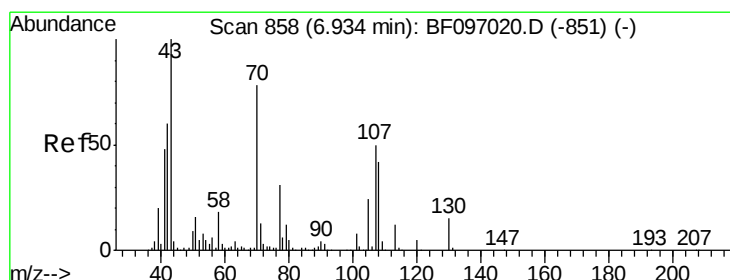
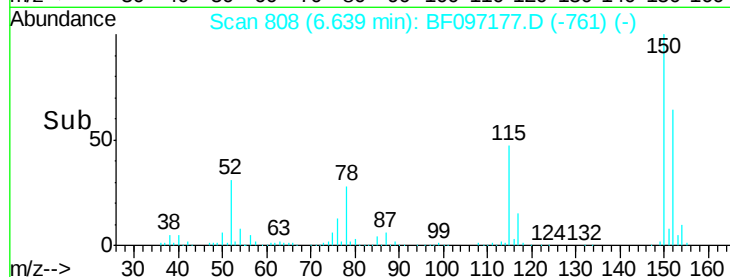
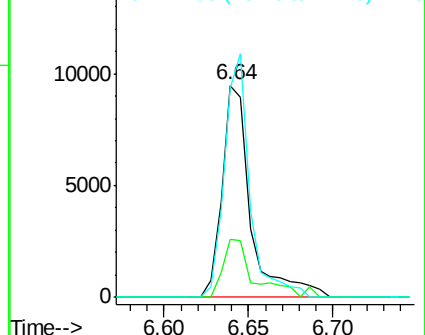
77 98.6 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.40 ng

RT: 7.06 min Scan# 879

Delta R.T. 0.12 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Tgt Ion: 70 Resp: 73564

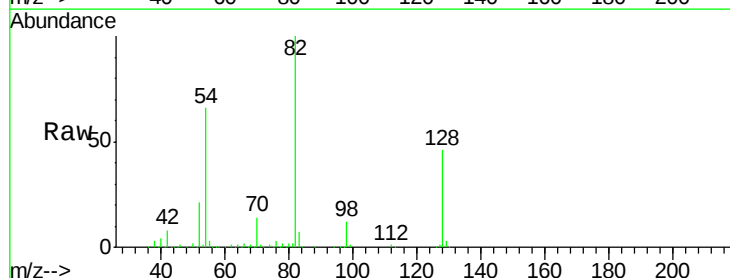
Ion Ratio Lower Upper

70 100

42 58.2 47.2 70.8

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#

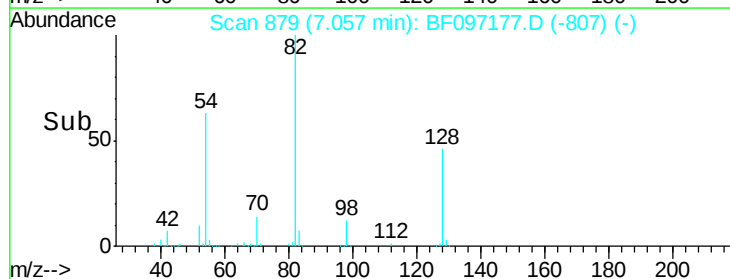
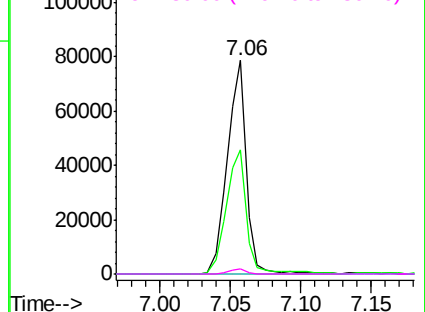


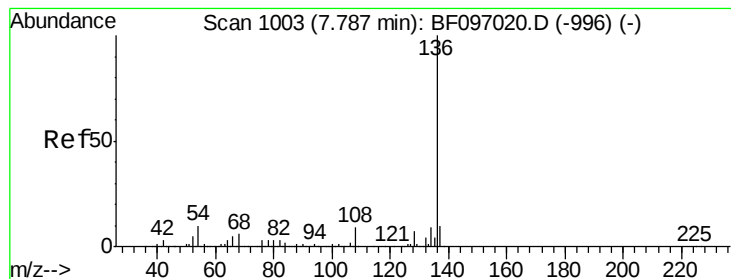
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.77 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

Tot Ion:136 Resp: 385419

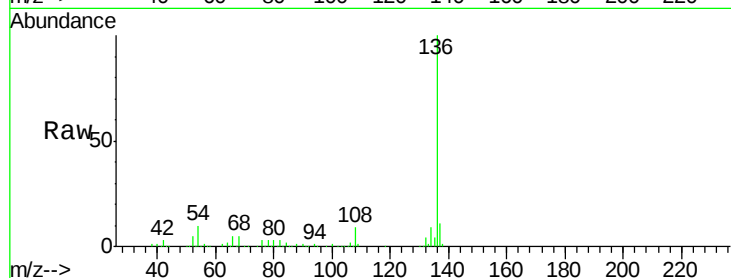
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 10.1 4.9 7.3#

68 5.2 4.1 6.1

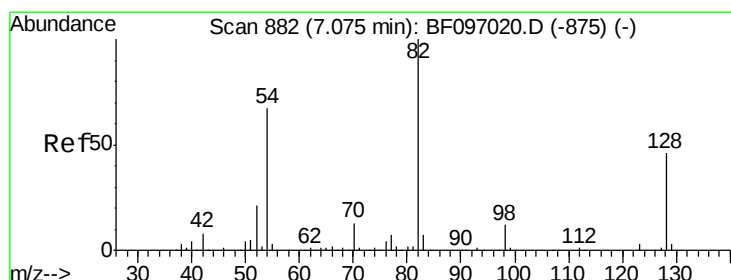
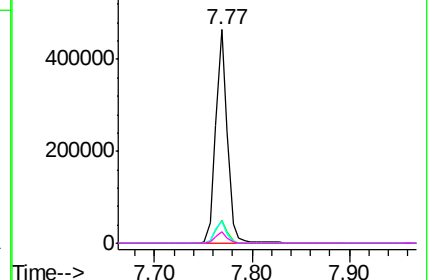
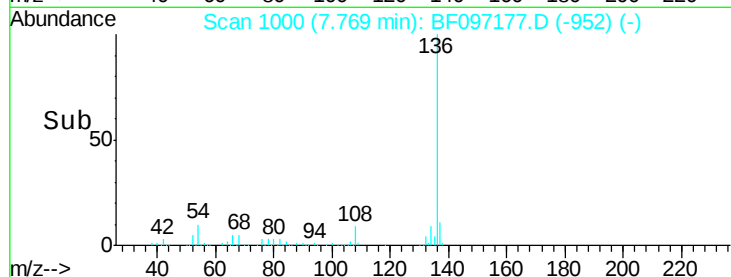


Abundance Ion 136.00 (135.70 to 136.70): E

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: 83.38 ng

RT: 7.06 min Scan# 879

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

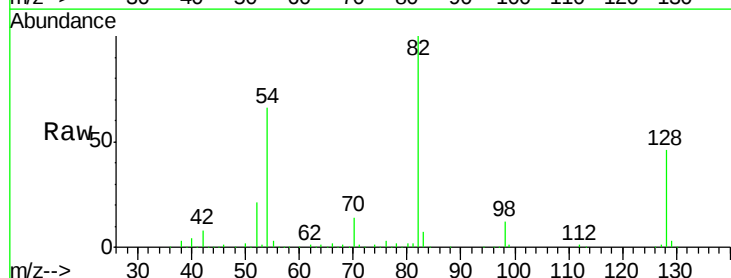
Tgt Ion: 82 Resp: 547829

Ion Ratio Lower Upper

82 100

128 46.3 34.0 51.0

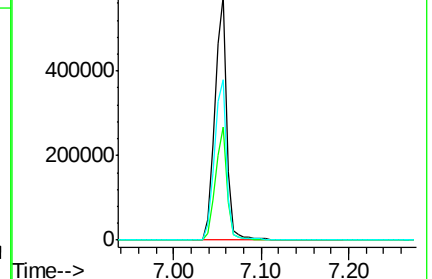
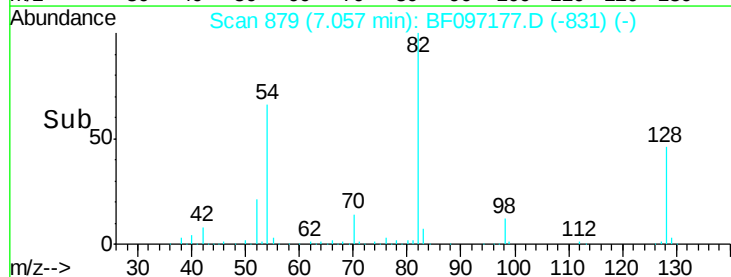
54 65.7 42.2 63.2#

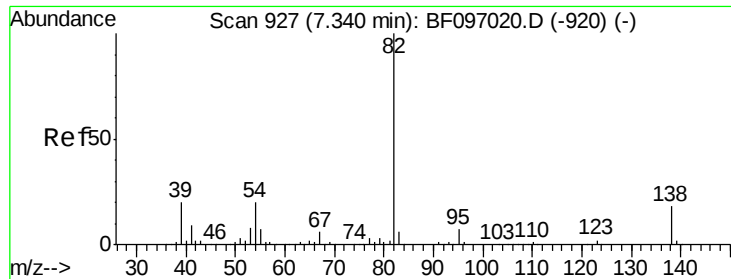


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 42.13 ng

RT: 7.06 min Scan# 879

Delta R.T. -0.28 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

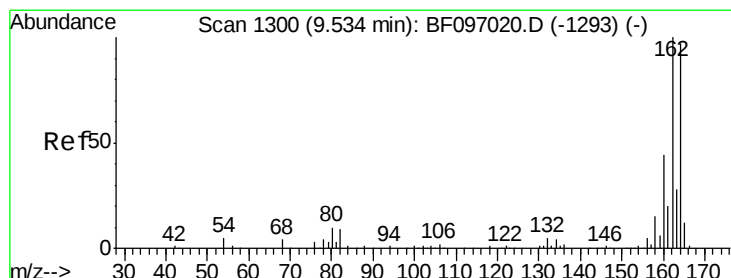
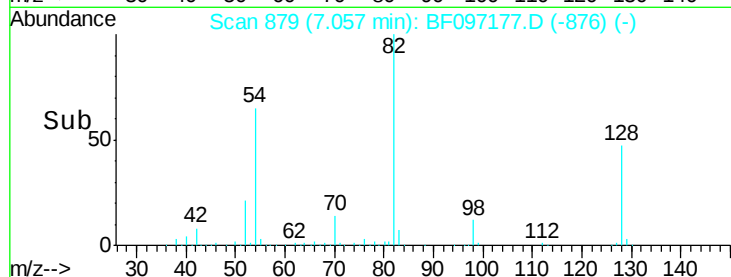
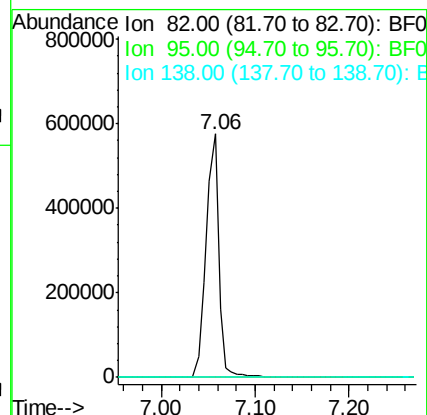
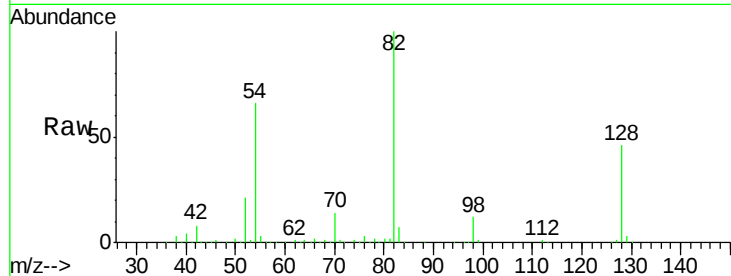
Tot Ion: 82 Resp: 542009

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

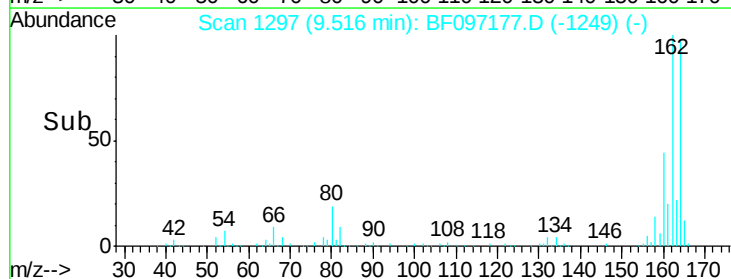
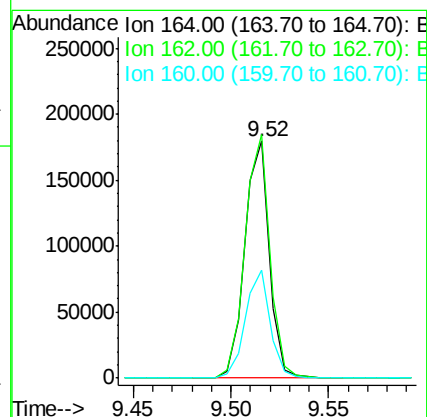
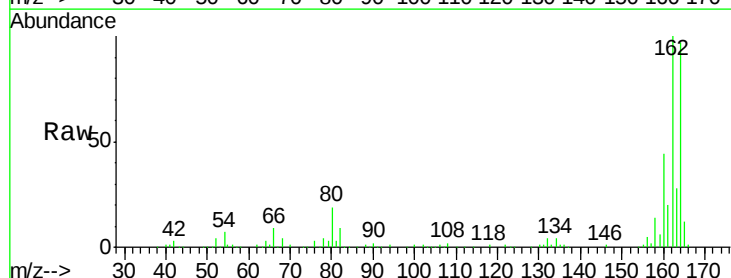
Tgt Ion: 164 Resp: 155814

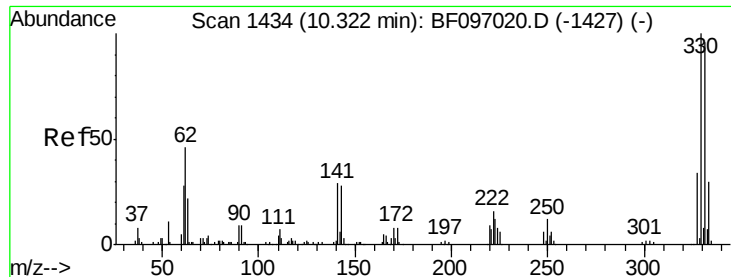
Ion Ratio Lower Upper

164 100

162 102.9 82.6 123.8

160 45.7 36.2 54.2

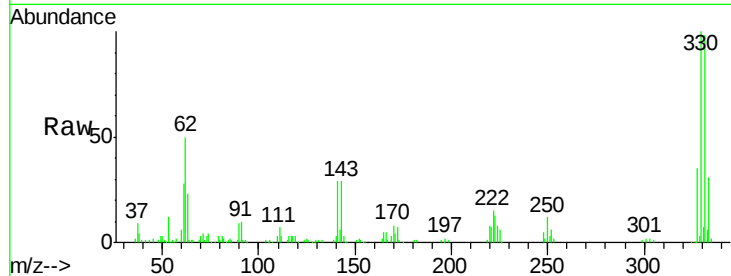




#41  
 2,4,6-Tribromophenol  
 Concen: 94.65 ng  
 RT: 10.30 min Scan# 1431  
 Delta R.T. -0.02 min  
 Lab File: BF097177.D  
 Acq: 29 Jul 2017 2:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-16D24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 76.6  | 115.0 |
| 141     | 39.4  | 31.4  | 47.2  |

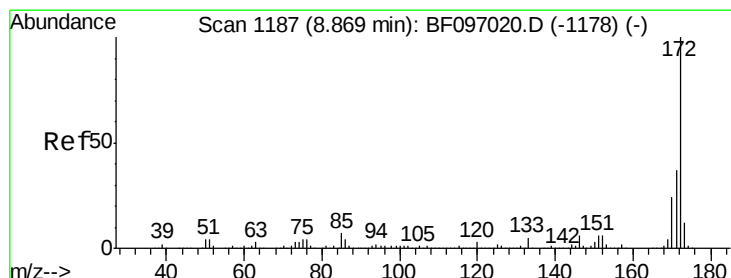
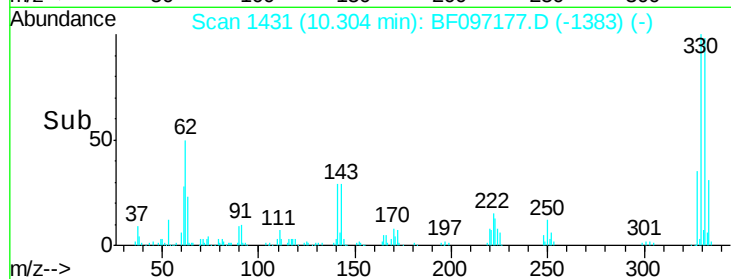
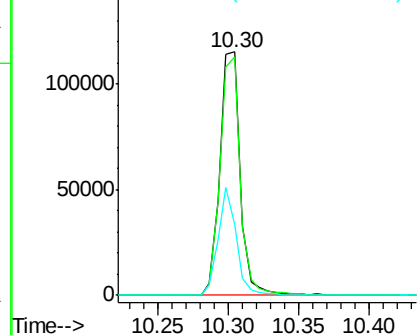


Abundance

Ion 329.80 (329.50 to 330.50): E

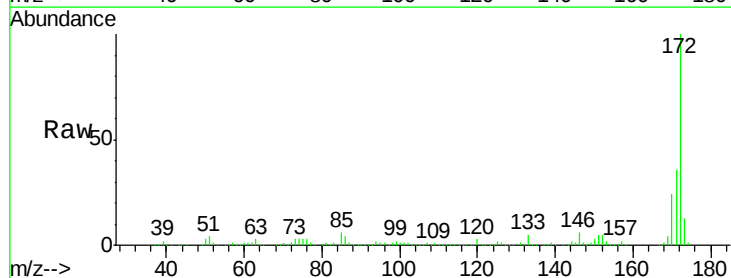
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 76.91 ng  
 RT: 8.85 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: BF097177.D  
 Acq: 29 Jul 2017 2:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.6  | 44.4  |
| 170     | 23.7  | 19.8  | 29.8  |

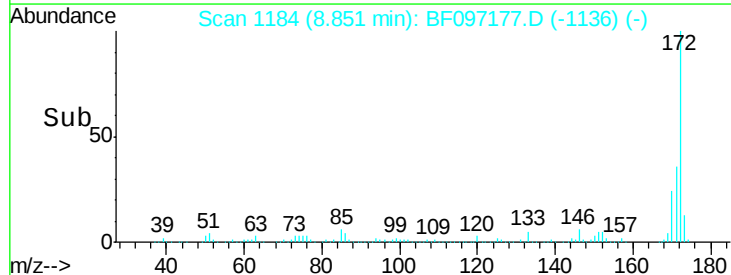
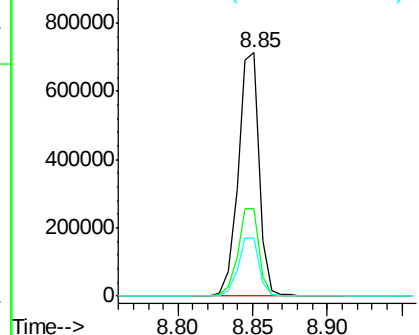


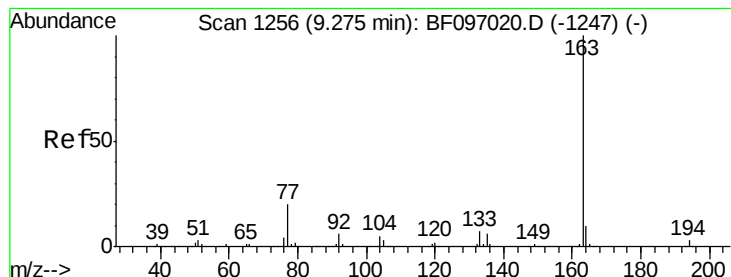
Abundance

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: 10.94 ng

RT: 9.25 min Scan# 1251

Delta R.T. -0.03 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

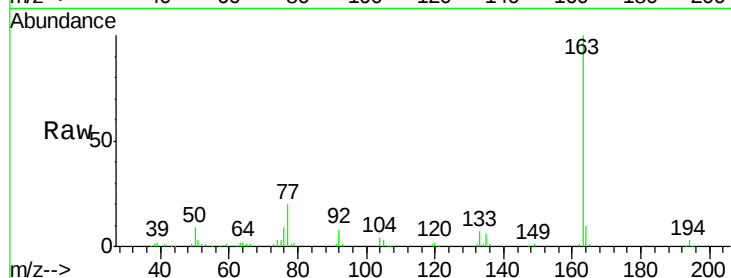
Tot Ion:163 Resp: 129458

Ion Ratio Lower Upper

163 100

194 2.7 2.6 4.0

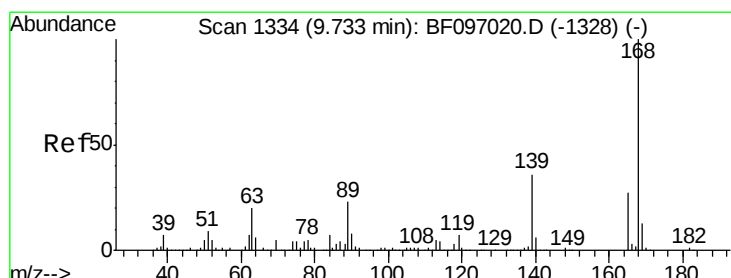
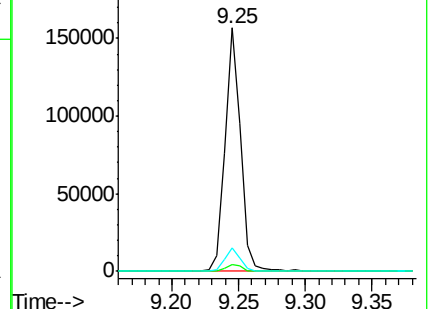
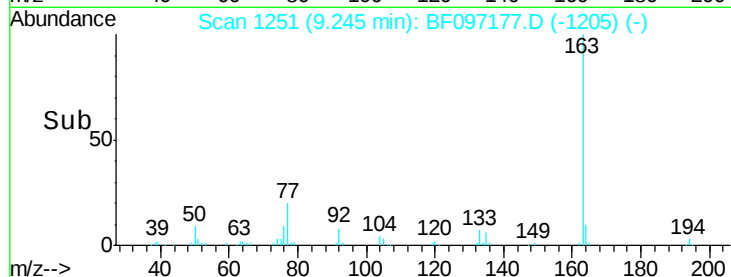
164 9.7 8.4 12.6



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: 6.68 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.22 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Tgt Ion:165 Resp: 19272

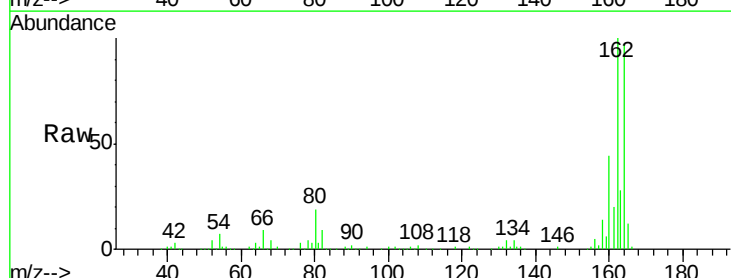
Ion Ratio Lower Upper

165 100

63 1.7 25.4 38.0#

89 2.0 46.4 69.6#

182 0.0 1.8 2.6#

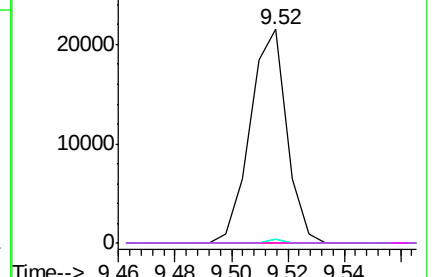
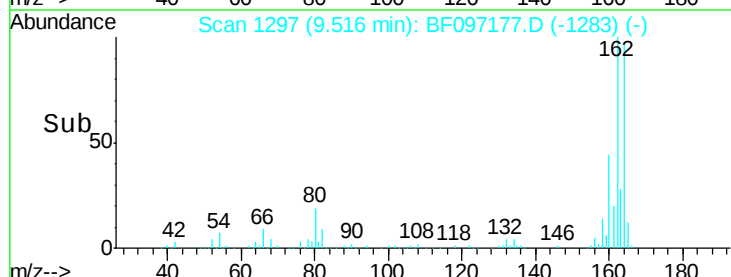


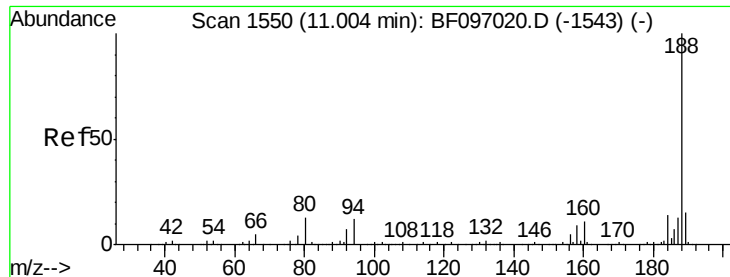
Abundance Ion 165.00 (164.70 to 165.70): E

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

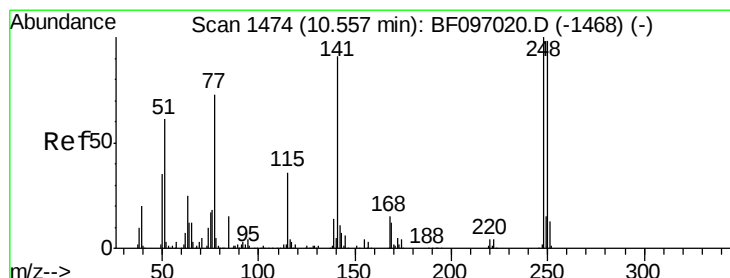
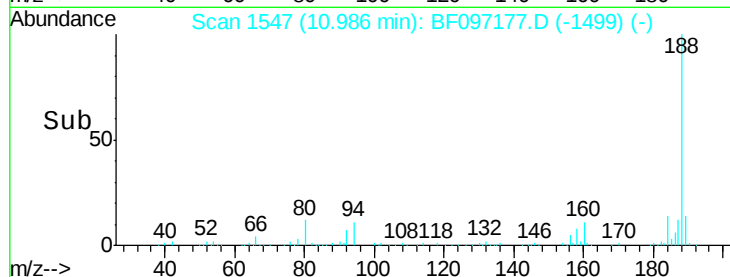
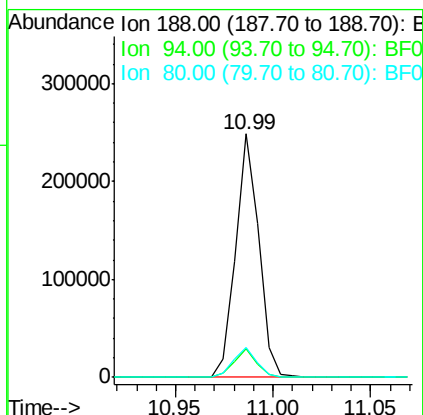
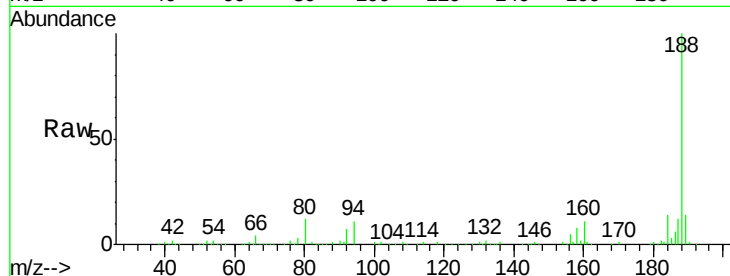




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF097177.D  
Acq: 29 Jul 2017 2:05

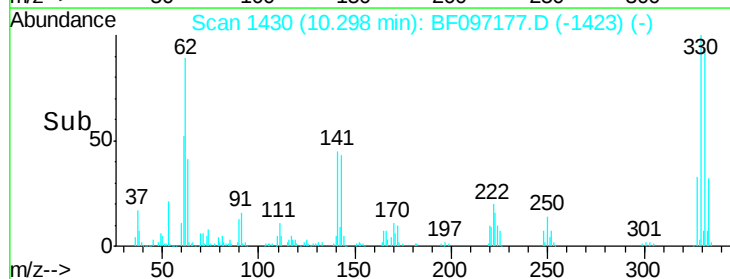
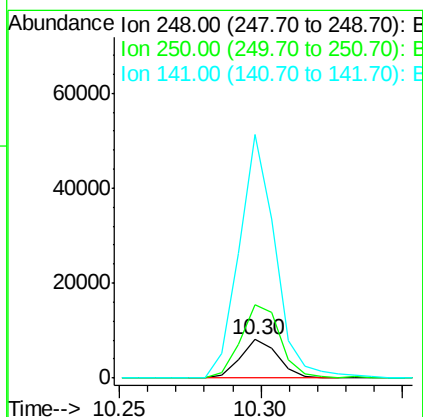
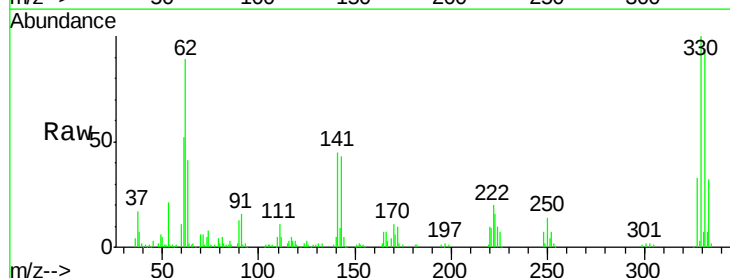
Instrument :  
BNA\_F  
ClientSampleId :  
TP-16D24

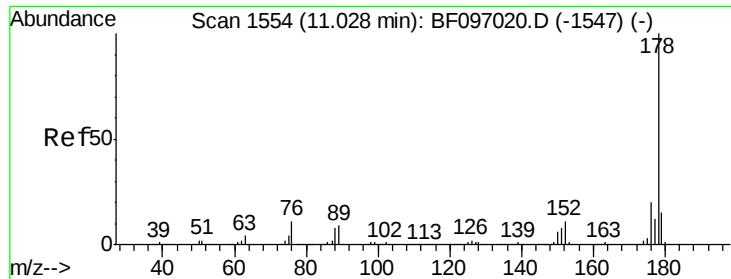
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.5  | 9.4   | 14.2  |
| 80      | 12.5  | 10.2  | 15.2  |



#66  
4-Bromophenyl-phenylether  
Concen: 3.67 ng  
RT: 10.30 min Scan# 1430  
Delta R.T. -0.26 min  
Lab File: BF097177.D  
Acq: 29 Jul 2017 2:05

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 192.0 | 76.8  | 115.2# |
| 141     | 631.9 | 68.6  | 103.0# |

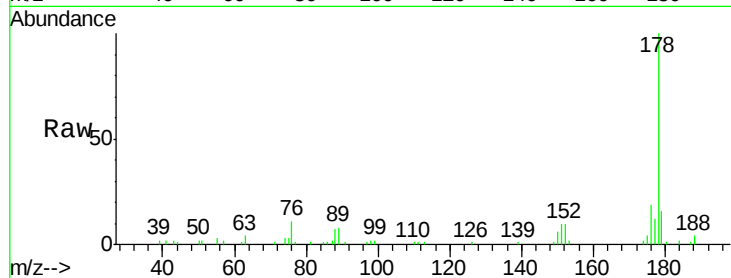




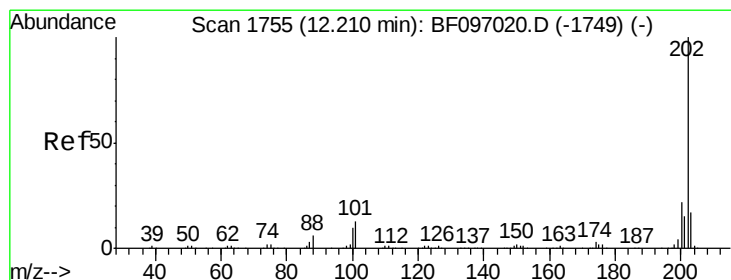
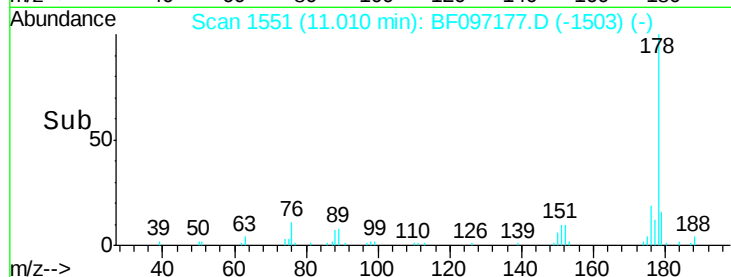
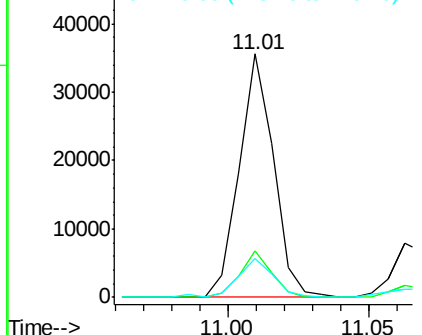
#70  
Phenanthrene  
Concen: 2.73 ng  
RT: 11.01 min Scan# 1551  
Delta R.T. -0.02 min  
Lab File: BF097177.D  
Acq: 29 Jul 2017 2:05

Instrument :  
BNA\_F  
ClientSampleId :  
TP-16D24

Tot Ion:178 Resp: 29978  
Ion Ratio Lower Upper  
178 100  
176 19.1 16.2 24.4  
179 15.8 12.6 19.0

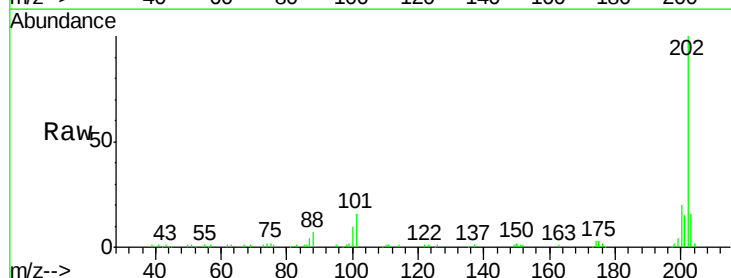


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

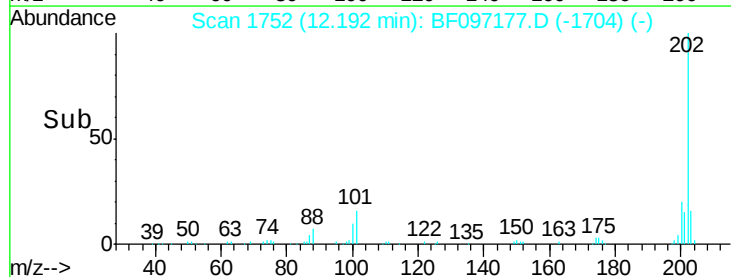
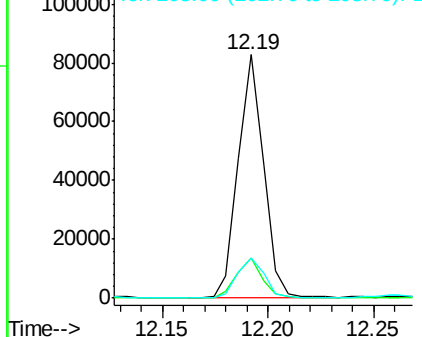


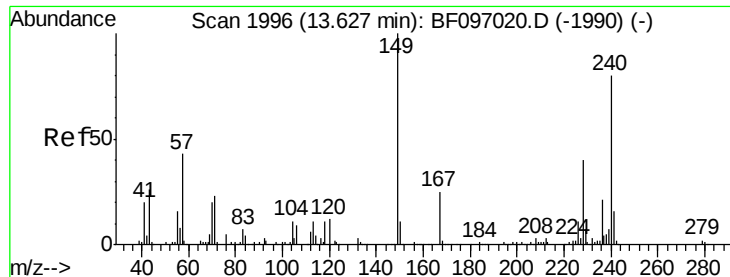
#74  
Fluoranthene  
Concen: 6.45 ng  
RT: 12.19 min Scan# 1752  
Delta R.T. -0.02 min  
Lab File: BF097177.D  
Acq: 29 Jul 2017 2:05

Tgt Ion:202 Resp: 69352  
Ion Ratio Lower Upper  
202 100  
101 16.5 0.0 33.2  
203 16.3 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: 13.61 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

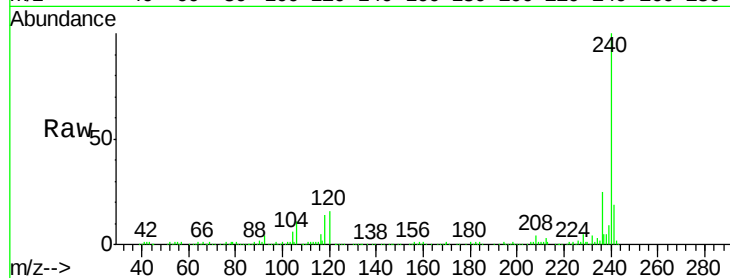
Tot Ion:240 Resp: 220353

Ion Ratio Lower Upper

240 100

120 16.0 5.8 8.8#

236 25.4 20.5 30.7

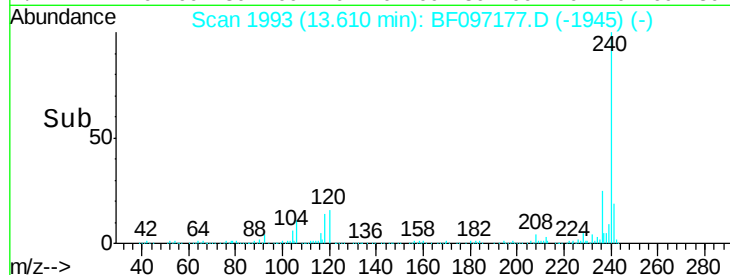


Abundance Ion 240.00 (239.70 to 240.70): E

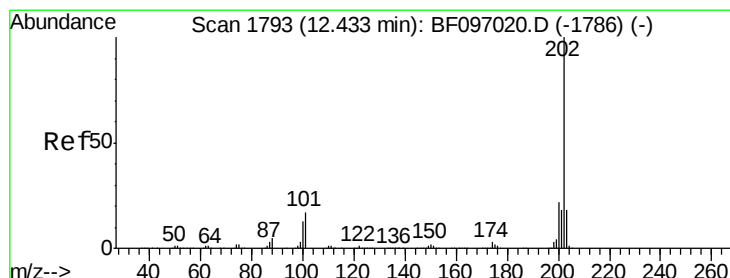
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

Time-->



Time-->



#77

Pyrene

Concen: 3.53 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

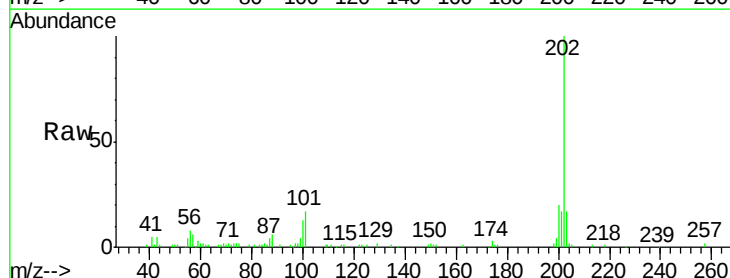
Tgt Ion:202 Resp: 63635

Ion Ratio Lower Upper

202 100

200 19.9 17.6 26.4

203 17.4 14.4 21.6

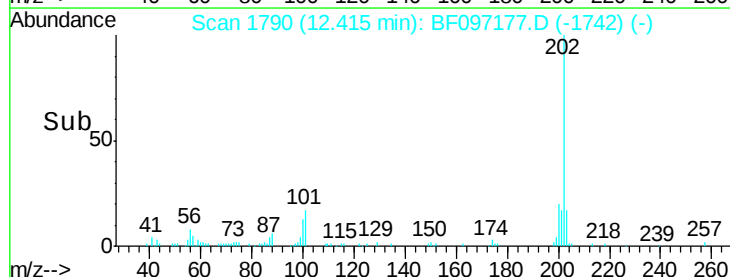


Abundance Ion 202.00 (201.70 to 202.70): E

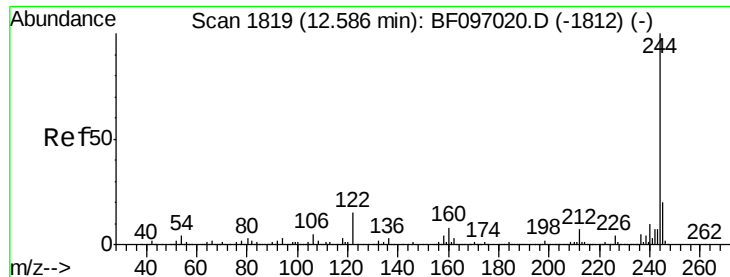
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

Time-->



Time-->



#78

Terphenyl-d14

Concen: 45.68 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

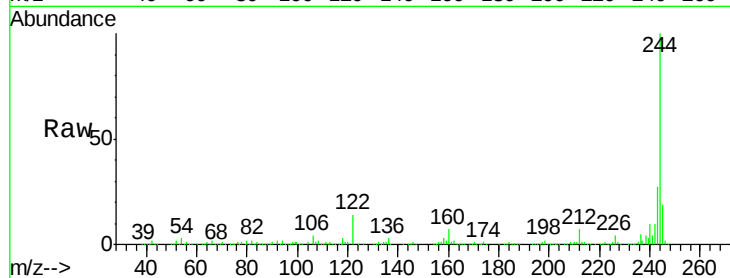
Tot Ion:244 Resp: 493716

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

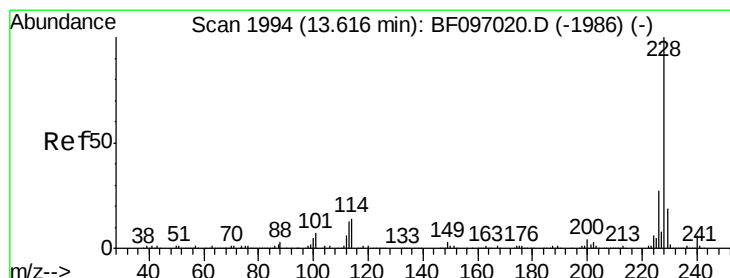
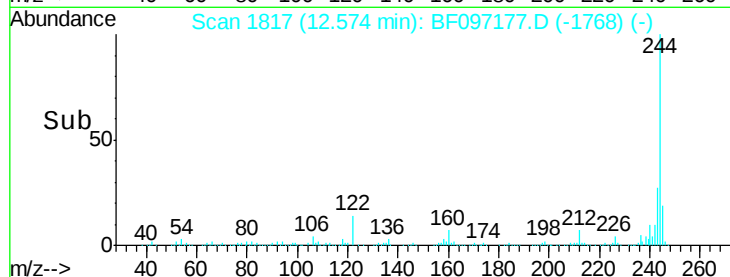
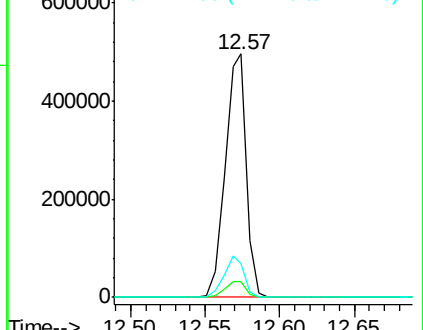
122 13.6 10.3 15.5



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



#80

Benzo(a)anthracene

Concen: 2.30 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

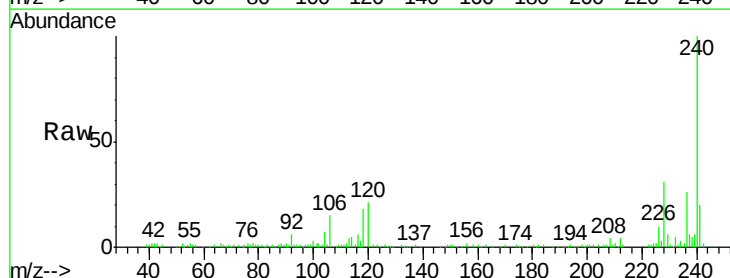
Tgt Ion:228 Resp: 32771

Ion Ratio Lower Upper

228 100

226 31.7 22.6 33.8

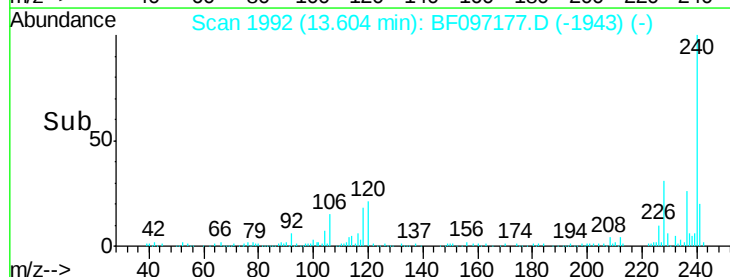
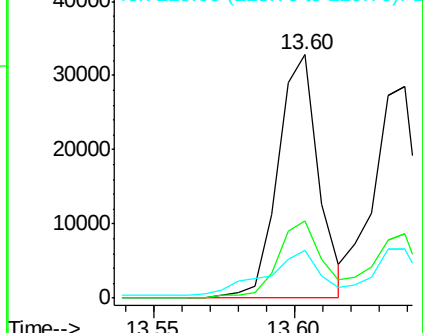
229 19.6 16.3 24.5

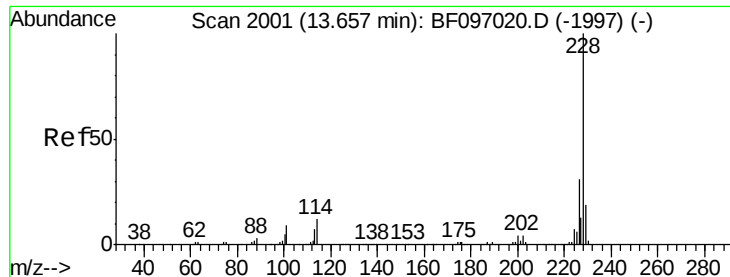


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.24 ng

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

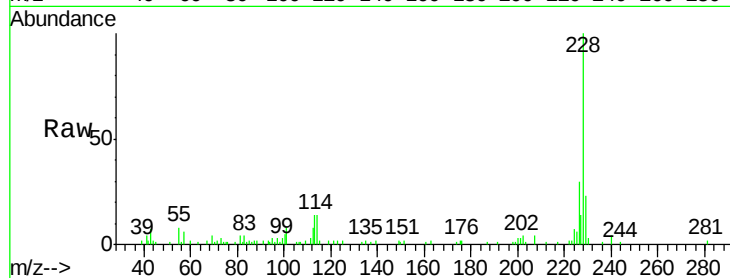
Tot Ion:228 Resp: 31149

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

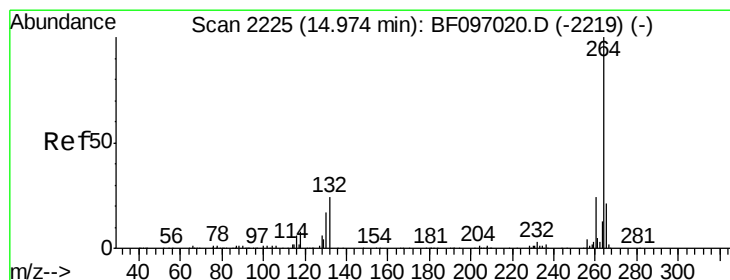
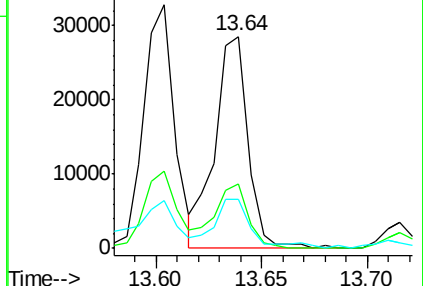
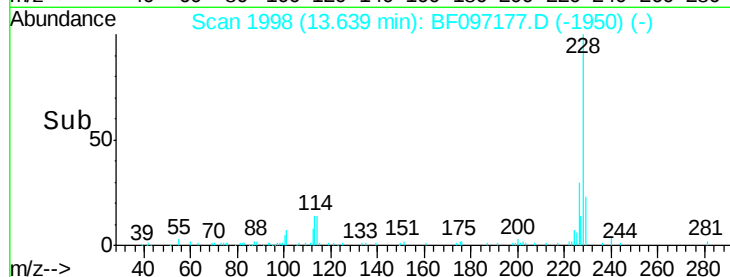
229 23.1 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 14.96 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

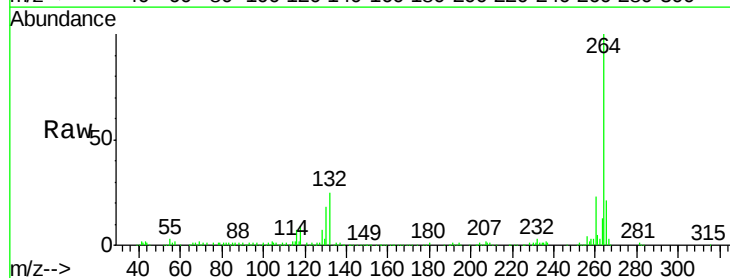
Tgt Ion:264 Resp: 159212

Ion Ratio Lower Upper

264 100

260 23.4 19.5 29.3

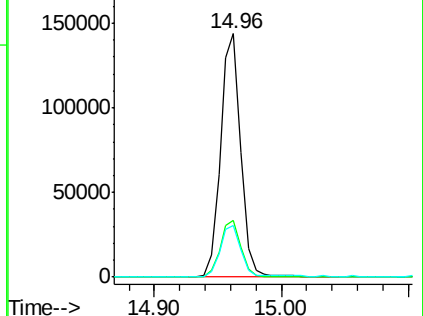
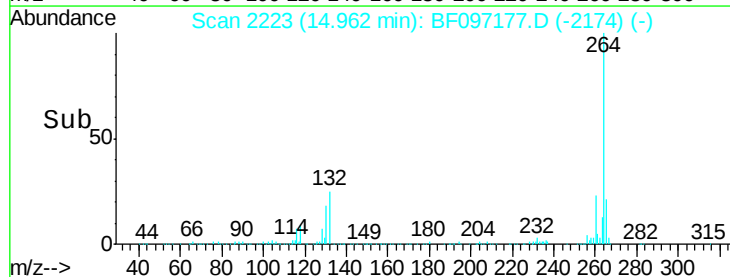
265 21.2 17.2 25.8

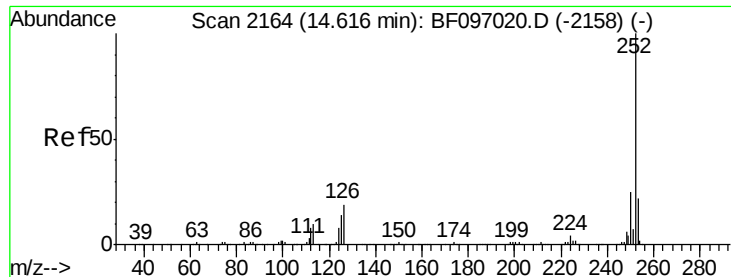


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.56 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

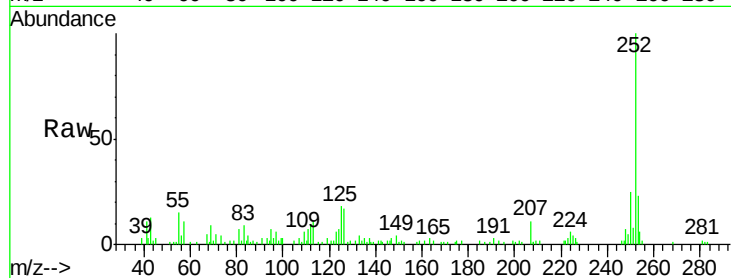
Tot Ion:252 Resp: 43603

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

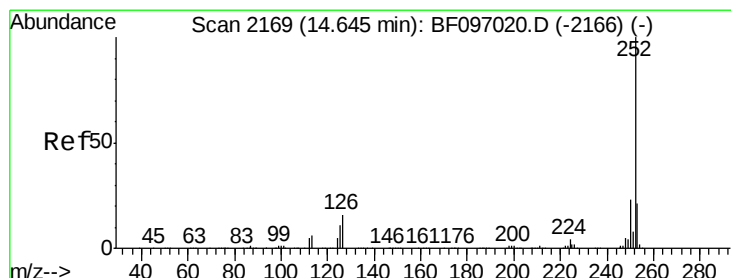
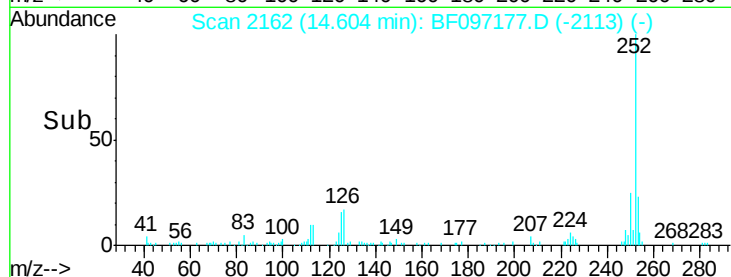
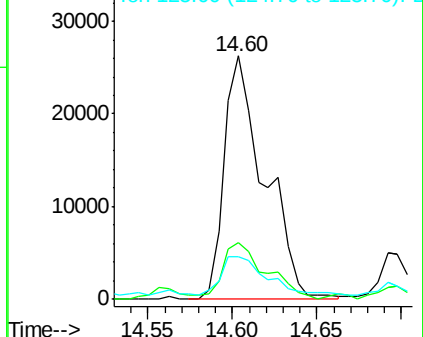
125 17.6 9.8 14.8#



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: 4.78 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.04 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

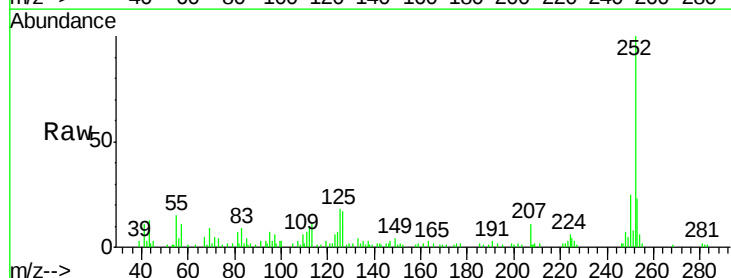
Tgt Ion:252 Resp: 43603

Ion Ratio Lower Upper

252 100

253 23.5 18.4 27.6

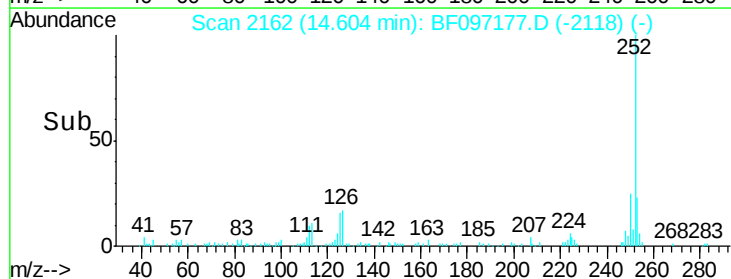
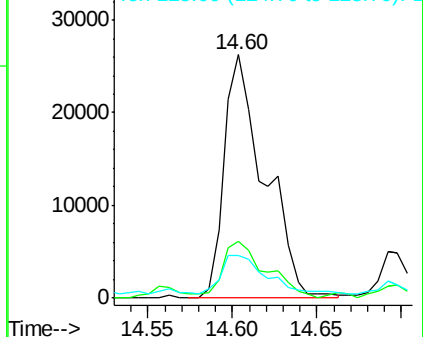
125 17.6 13.1 19.7

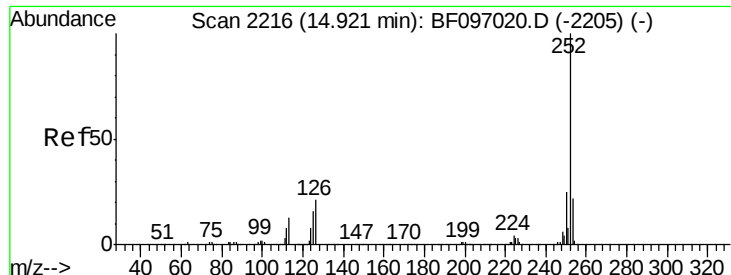


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.57 ng

RT: 14.91 min Scan# 2214

Delta R.T. -0.01 min

Lab File: BF097177.D

Acq: 29 Jul 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

TP-16D24

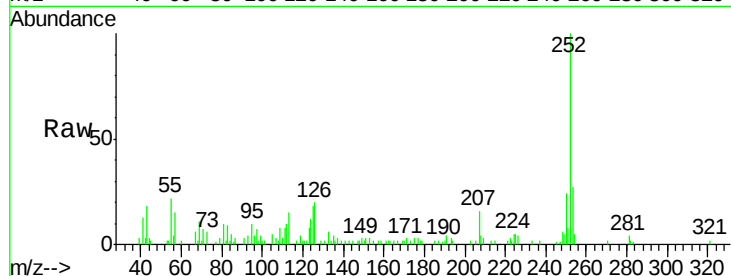
Tot Ion:252 Resp: 22481

Ion Ratio Lower Upper

252 100

253 26.8 17.5 26.3#

125 17.7 11.0 16.4#



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

