

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\  
 Data File : BF096257.D  
 Acq On : 28 Jun 2017 18:51  
 Operator : SJ/MA  
 Sample : I3852-10 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 29 01:36:11 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 15:41:49 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.78  | 152  | 152592   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.06  | 136  | 612956   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.82  | 164  | 236451   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.29 | 188  | 381569   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.93 | 240  | 346304   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.36 | 264  | 298089   | 20.00 | ng    | 0.02     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.39  | 112 | 273851 | 25.86 | ng | 0.00  |
| 7) Phenol-d6                | 6.40  | 99  | 327668 | 25.55 | ng | 0.01  |
| 23) Nitrobenzene-d5         | 7.33  | 82  | 170327 | 19.24 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330 | 56376  | 30.30 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 9.14  | 172 | 299278 | 23.18 | ng | -0.01 |
| 78) Terphenyl-d14           | 12.87 | 244 | 230367 | 16.60 | ng | 0.00  |

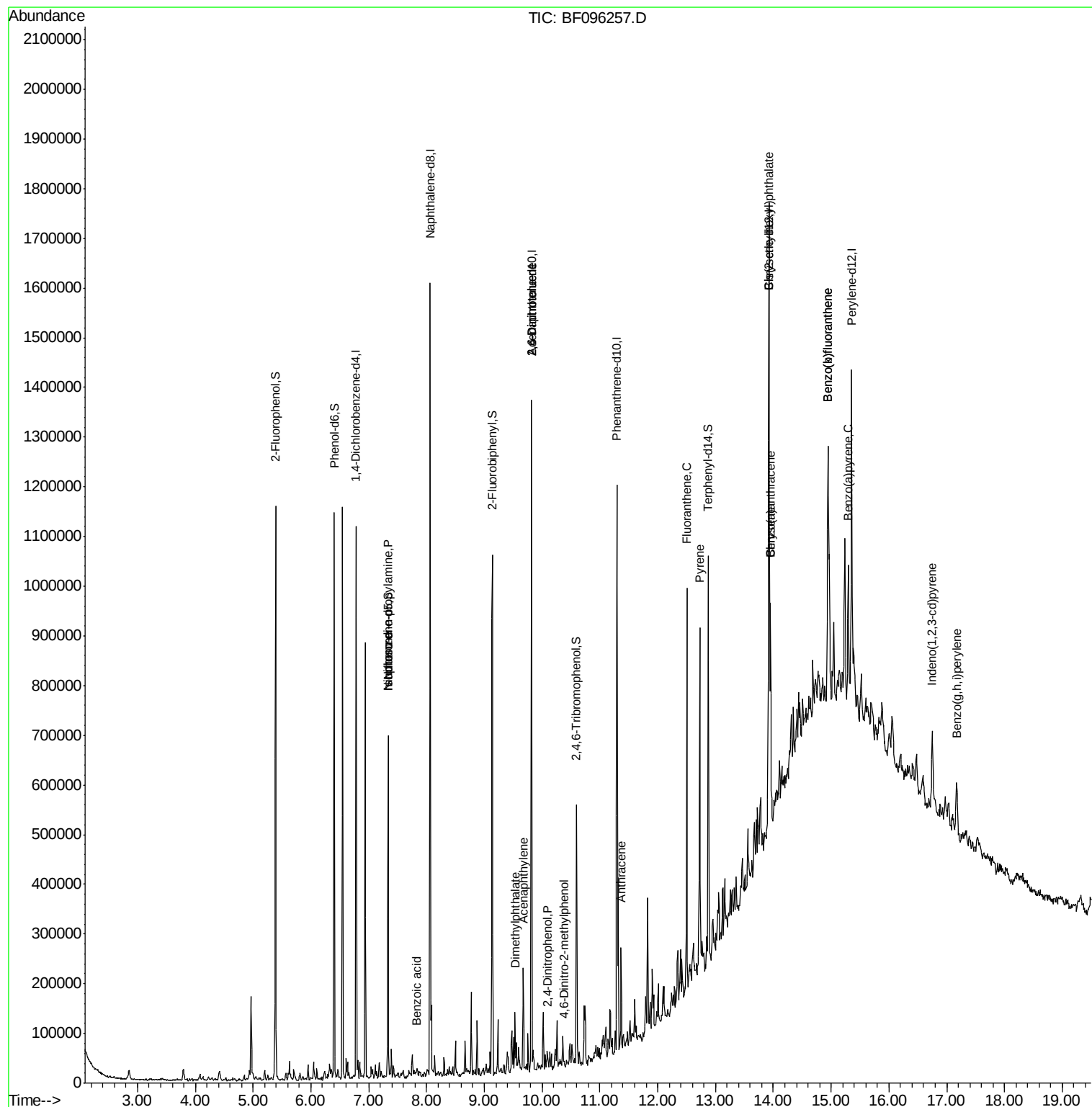
|                                |       |     |        |           |    |      |
|--------------------------------|-------|-----|--------|-----------|----|------|
| Target Compounds               |       |     |        | Qvalue    |    |      |
| 9) Benzaldehyde                | 6.32  | 77  | 3207   | Below Cal | #  | 60   |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70  | 23343  | 3.04      | ng | # 89 |
| 25) Isophorone                 | 7.33  | 82  | 170037 | 8.46      | ng | # 67 |
| 32) Benzoic acid               | 7.84  | 122 | 593    | 8.86      | ng | 94   |
| 48) Acenaphthylene             | 9.67  | 152 | 69464  | 2.78      | ng | 99   |
| 49) Dimethylphthalate          | 9.53  | 163 | 37646  | 2.22      | ng | 99   |
| 50) 2,6-Dinitrotoluene         | 9.82  | 165 | 31783  | 9.03      | ng | # 34 |
| 53) 2,4-Dinitrophenol          | 10.10 | 184 | 166    | 7.68      | ng | # 4  |
| 56) 2,4-Dinitrotoluene         | 9.82  | 165 | 31783  | 7.16      | ng | # 33 |
| 57) Fluorene                   | 10.36 | 166 | 7861   | Below Cal | #  | 90   |
| 64) 4,6-Dinitro-2-methylphenol | 10.39 | 198 | 109    | 8.79      | ng | # 1  |
| 70) Phenanthrene               | 11.32 | 178 | 114229 | Below Cal |    | 100  |
| 71) Anthracene                 | 11.37 | 178 | 72416  | 3.40      | ng | 95   |
| 74) Fluoranthene               | 12.50 | 202 | 279440 | 13.18     | ng | 95   |
| 77) Pyrene                     | 12.73 | 202 | 281611 | 9.89      | ng | 99   |
| 80) Benzo(a)anthracene         | 13.95 | 228 | 180163 | 8.53      | ng | 96   |
| 82) Chrysene                   | 13.95 | 228 | 180163 | 8.25      | ng | 94   |
| 83) Bis(2-ethylhexyl)phthalate | 13.92 | 149 | 39720  | 2.80      | ng | # 95 |
| 85) Indeno(1,2,3-cd)pyrene     | 16.75 | 276 | 101527 | 5.60      | ng | 95   |
| 87) Benzo(b)fluoranthene       | 14.95 | 252 | 390804 | 19.96     | ng | # 92 |
| 88) Benzo(k)fluoranthene       | 14.95 | 252 | 390804 | 21.86     | ng | 96   |
| 89) Benzo(a)pyrene             | 15.30 | 252 | 141529 | 8.18      | ng | # 91 |
| 91) Benzo(g,h,i)perylene       | 17.17 | 276 | 87014  | 6.18      | ng | 98   |

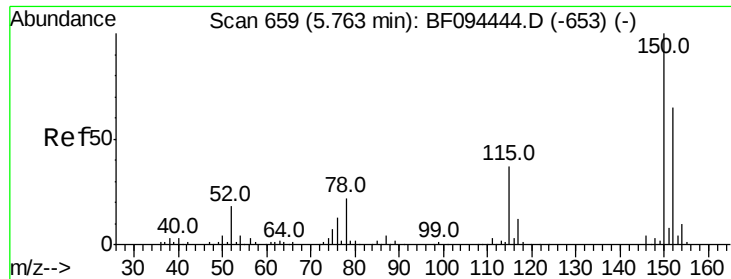
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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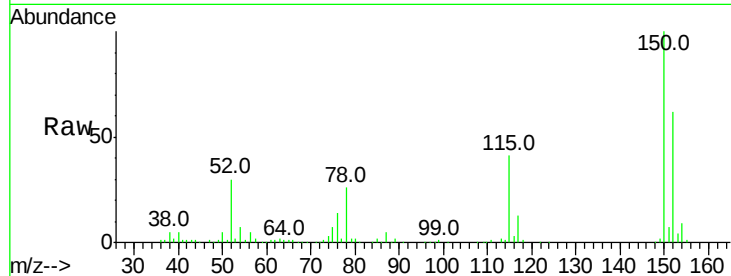


#1

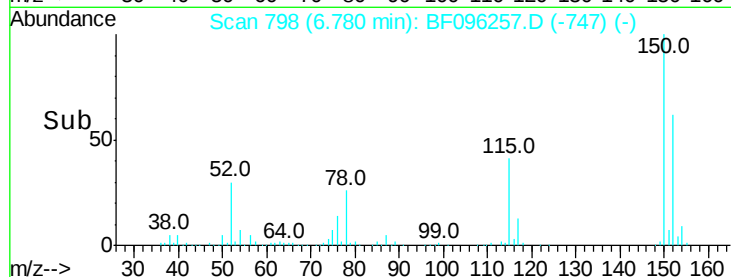
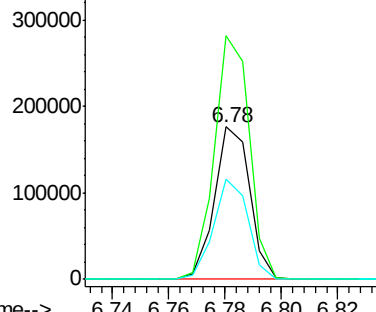
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.78 min Scan# 798  
Delta R.T. -0.00 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.0 | 126.2 | 189.2 |
| 115     | 66.3  | 52.2  | 78.2  |



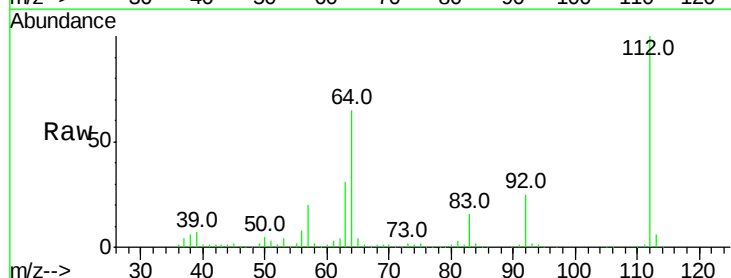
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



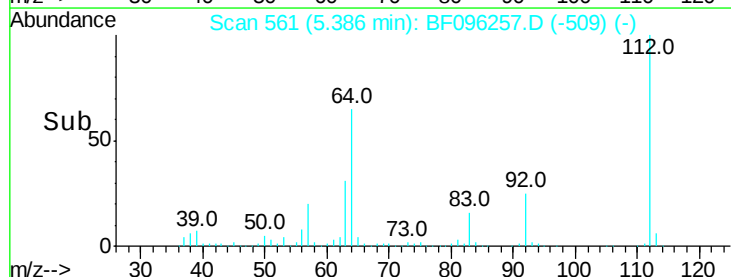
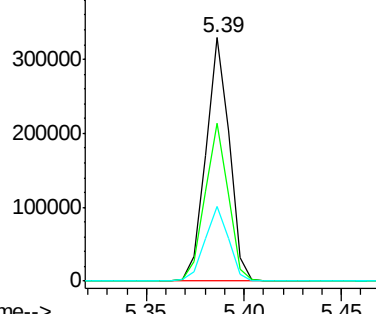
#5

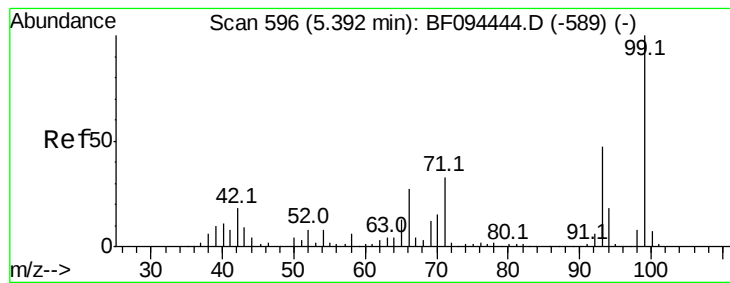
2-Fluorophenol  
Concen: 25.86 ng  
RT: 5.39 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.8  | 46.0  | 69.0  |
| 63      | 30.5  | 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: 25.55 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :

BNA\_F

ClientSampled :

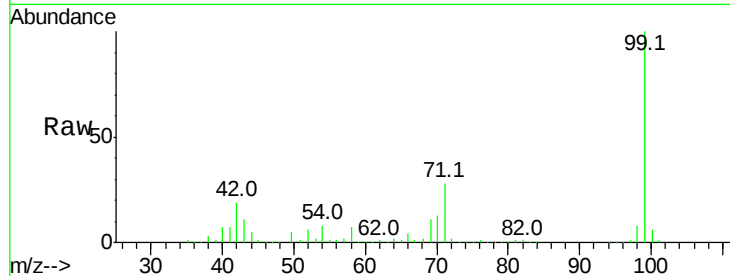
Tot Ion: 99 Resp: 327668

Ion Ratio Lower Upper

99 100

42 19.5 13.5 20.3

71 27.8 24.5 36.7

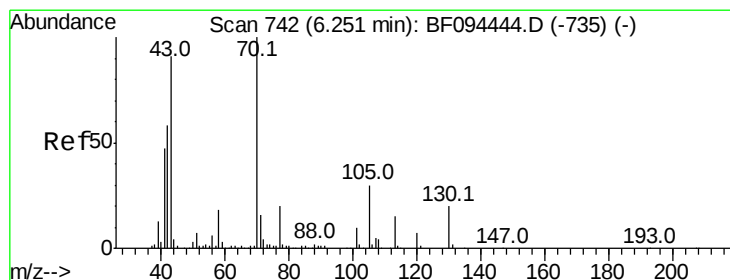
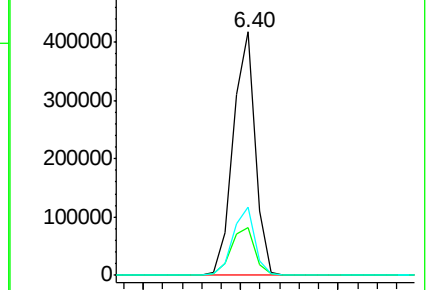
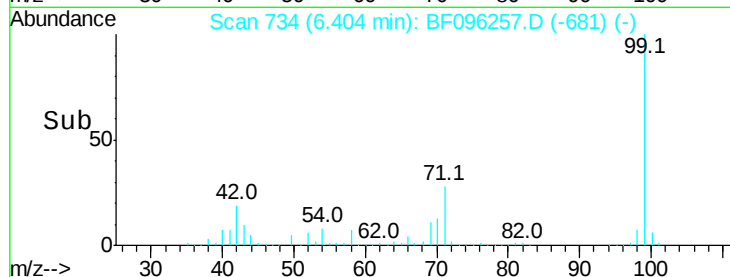


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

6.40



#19

n-Nitroso-di-n-propylamine

Concen: 3.04 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.15 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Tgt Ion: 70 Resp: 23343

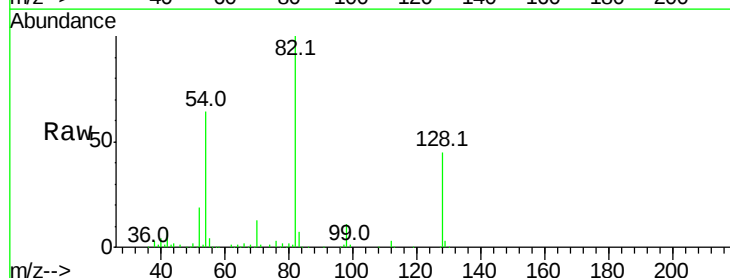
Ion Ratio Lower Upper

70 100

42 59.0 47.2 70.8

101 0.0 7.2 10.8#

130 2.0 15.9 23.9#

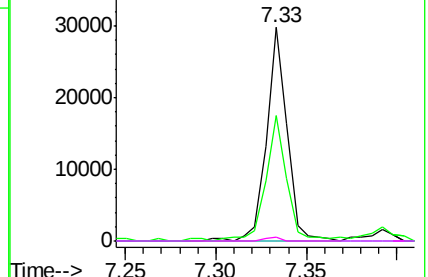
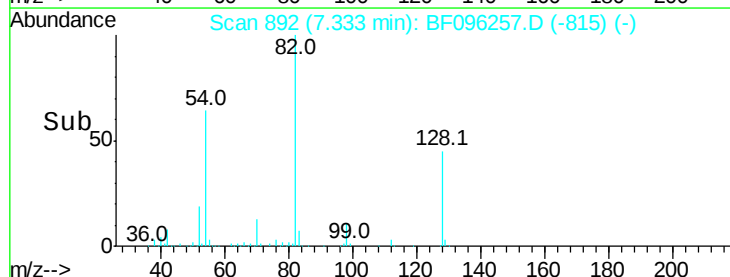


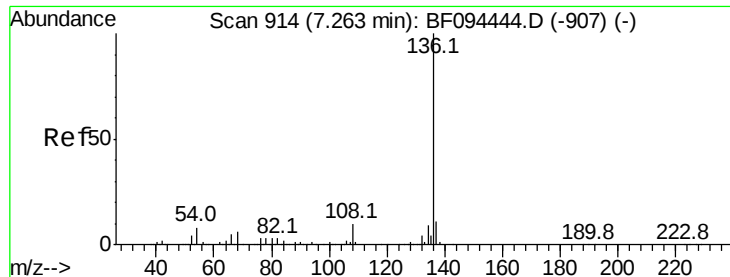
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 1016

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 612956

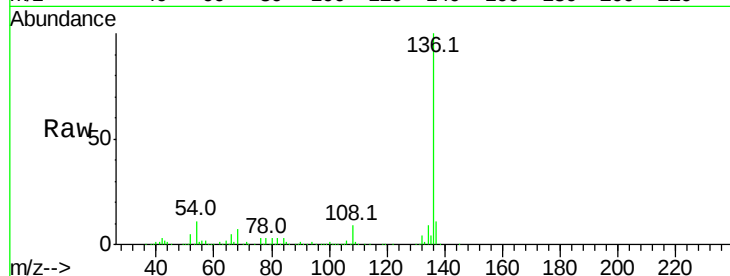
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 10.7 4.9 7.3#

68 6.7 4.1 6.1#

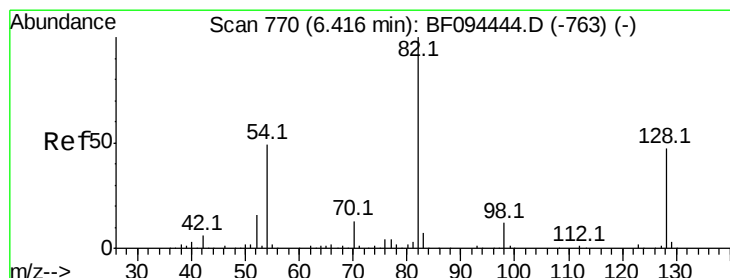
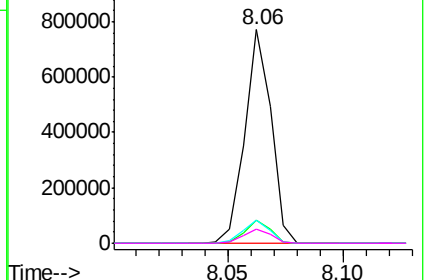
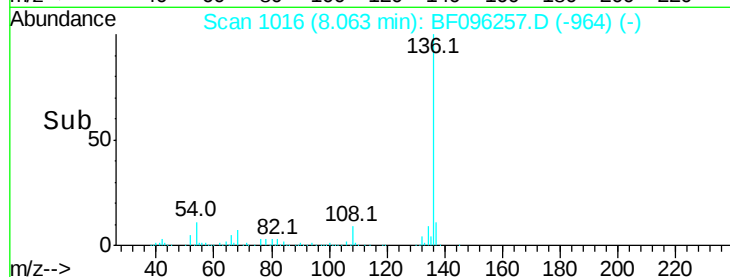


Abundance Ion 136.00 (135.70 to 136.70): E

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: 19.24 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.02 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

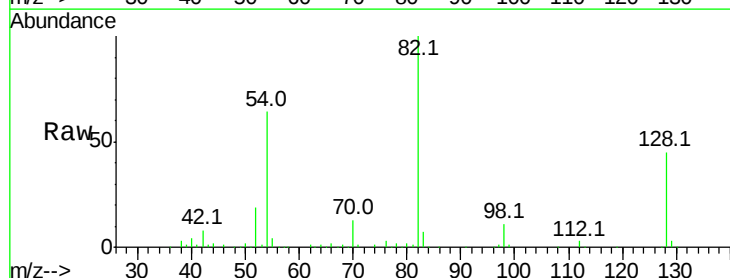
Tgt Ion: 82 Resp: 170327

Ion Ratio Lower Upper

82 100

128 44.8 34.0 51.0

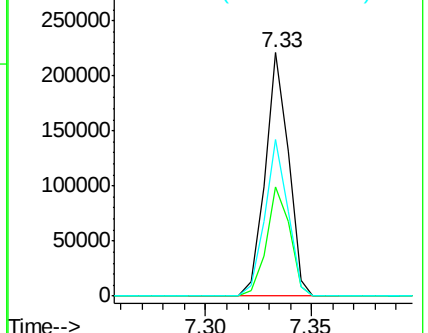
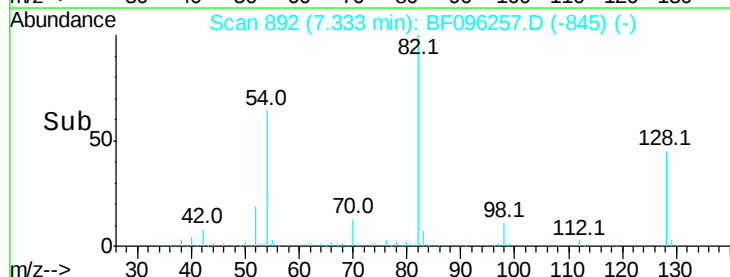
54 64.4 42.2 63.2#

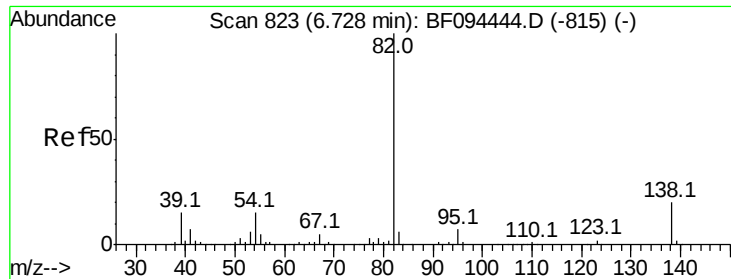


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.46 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.26 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :

BNA\_F

ClientSampled :

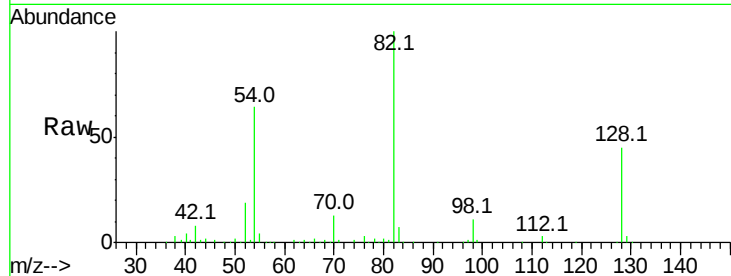
Tot Ion: 82 Resp: 170037

Ion Ratio Lower Upper

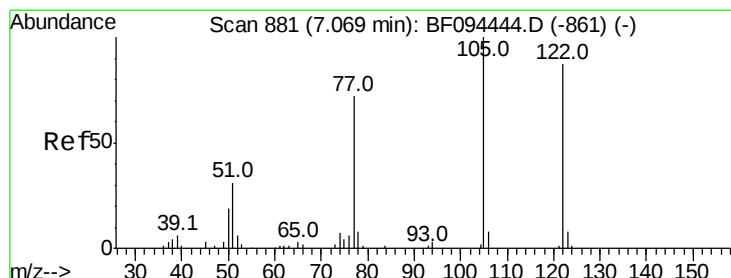
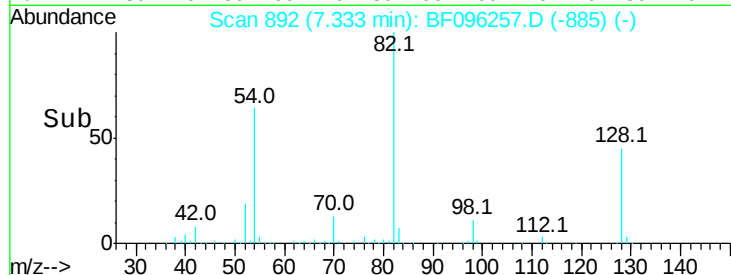
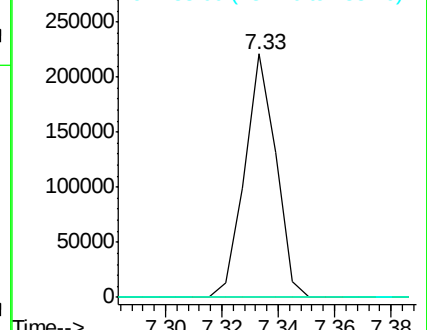
82 100

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



#32

Benzoic acid

Concen: 8.86 ng

RT: 7.84 min Scan# 978

Delta R.T. -0.05 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

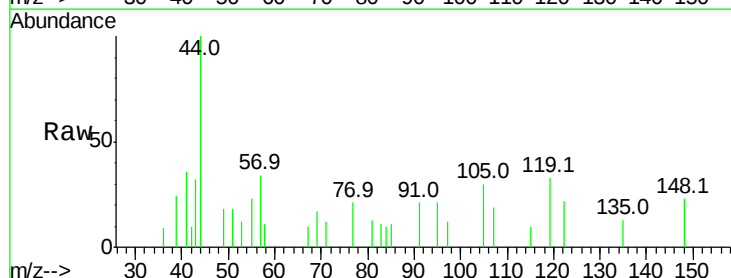
Tgt Ion:122 Resp: 593

Ion Ratio Lower Upper

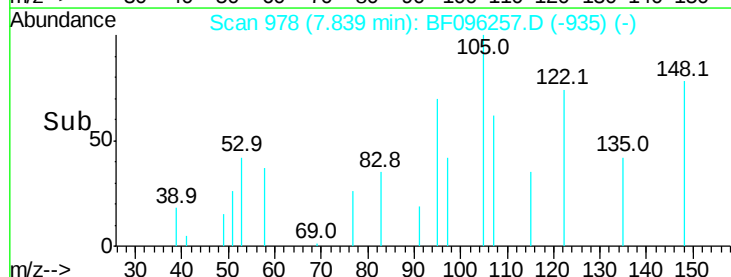
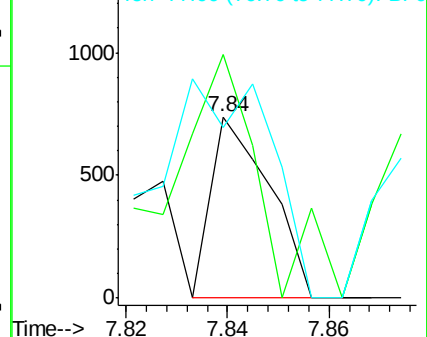
122 100

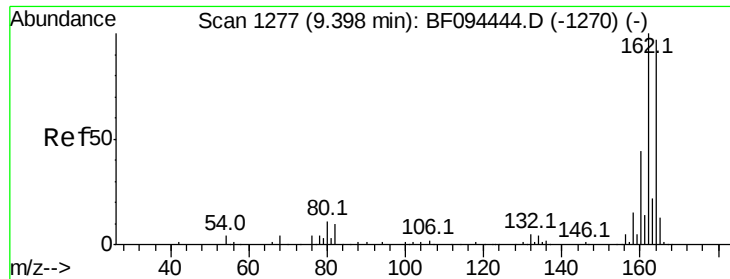
105 134.4 103.3 143.3

77 94.2 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: 9.82 min Scan# 1314

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :

BNA\_F

ClientSampleId :

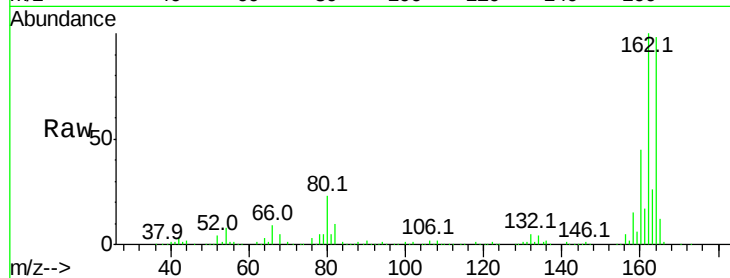
Tot Ion:164 Resp: 236451

Ion Ratio Lower Upper

164 100

162 102.0 82.6 123.8

160 46.2 36.2 54.2

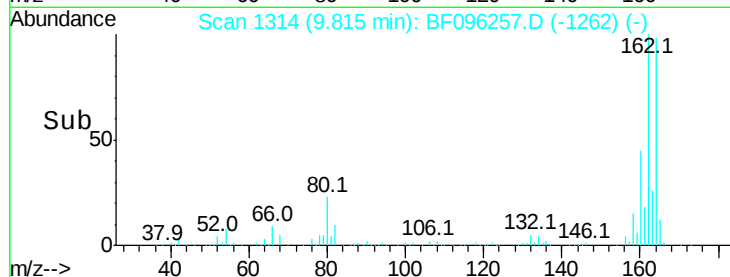


Abundance Ion 164.00 (163.70 to 164.70): E

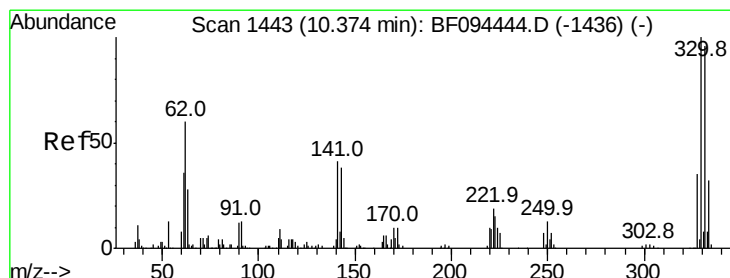
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

Time-->



Time-->



#41

2,4,6-Tribromophenol

Concen: 30.30 ng

RT: 10.60 min Scan# 1447

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

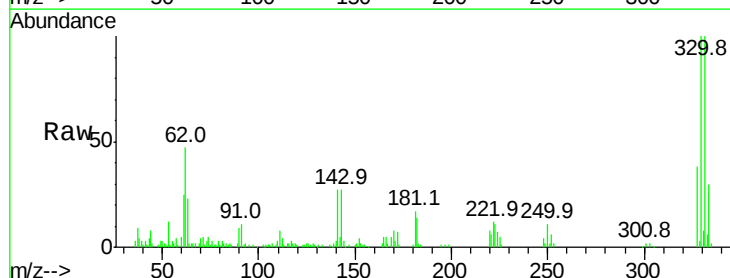
Tgt Ion:330 Resp: 56376

Ion Ratio Lower Upper

330 100

332 98.2 76.6 115.0

141 35.5 31.4 47.2

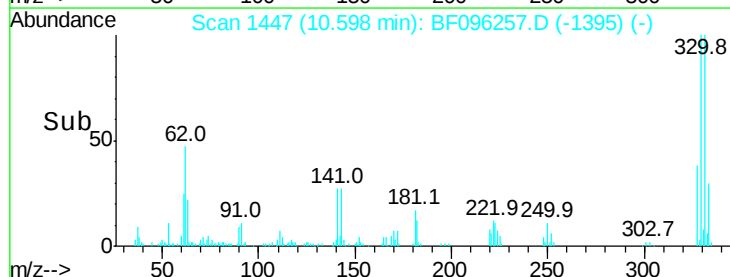


Abundance Ion 329.80 (329.50 to 330.50): E

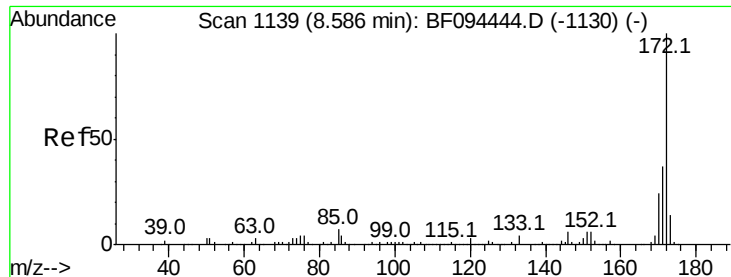
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

Time-->



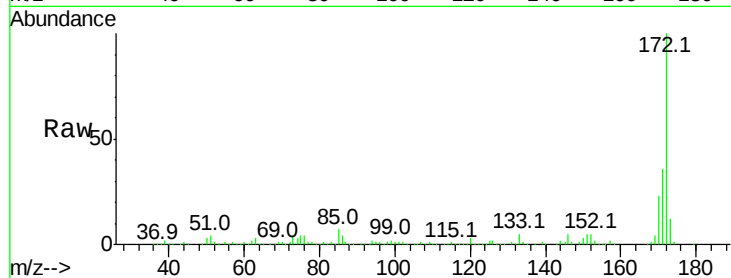
Time-->



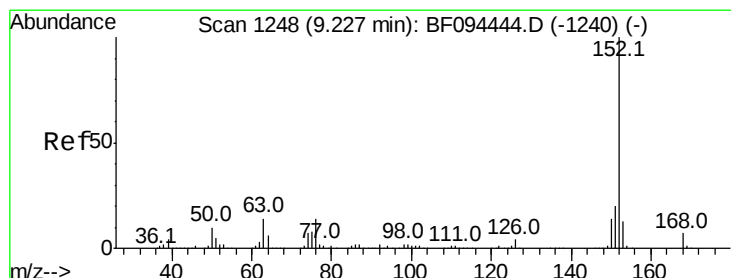
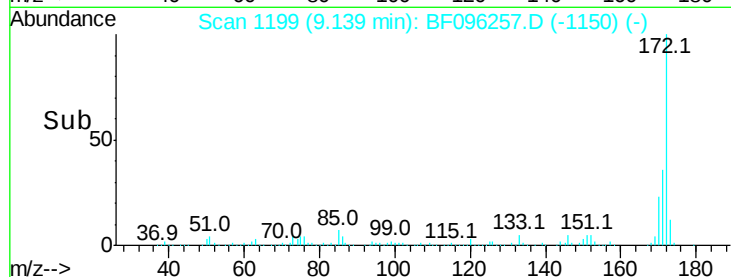
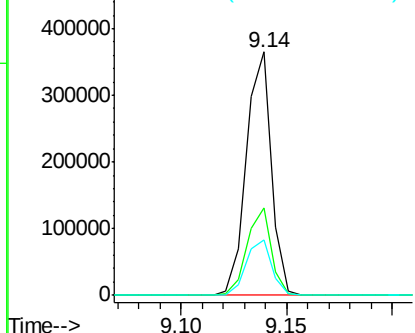
#44  
 2-Fluorobiphenyl  
 Concen: 23.18 ng  
 RT: 9.14 min Scan# 1199  
 Delta R.T. -0.01 min  
 Lab File: BF096257.D  
 Acq: 28 Jun 2017 18:51

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:172 Resp: 299278  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.6 44.4  
 170 22.8 19.8 29.8

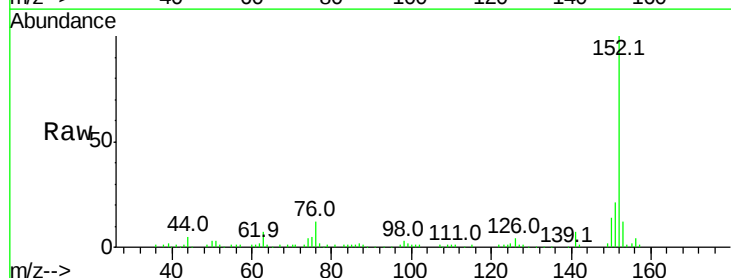


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

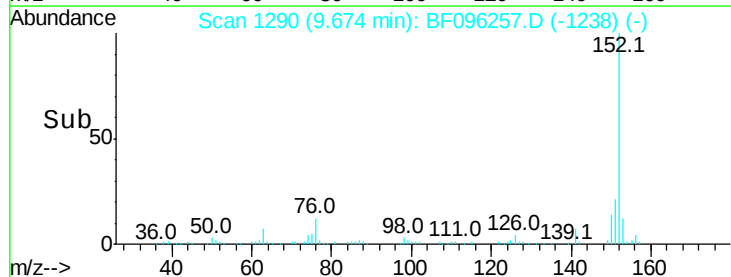
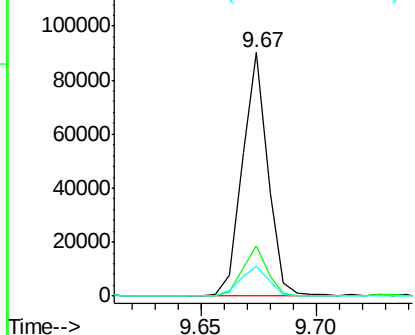


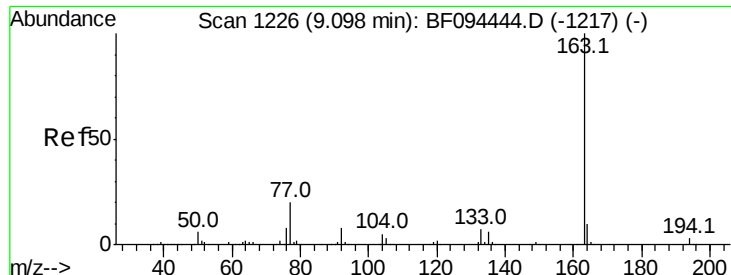
#48  
 Acenaphthylene  
 Concen: 2.78 ng  
 RT: 9.67 min Scan# 1290  
 Delta R.T. 0.01 min  
 Lab File: BF096257.D  
 Acq: 28 Jun 2017 18:51

Tgt Ion:152 Resp: 69464  
 Ion Ratio Lower Upper  
 152 100  
 151 20.7 16.8 25.2  
 153 12.4 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 151.00 (150.70 to 151.70): E  
 Ion 153.00 (152.70 to 153.70): E

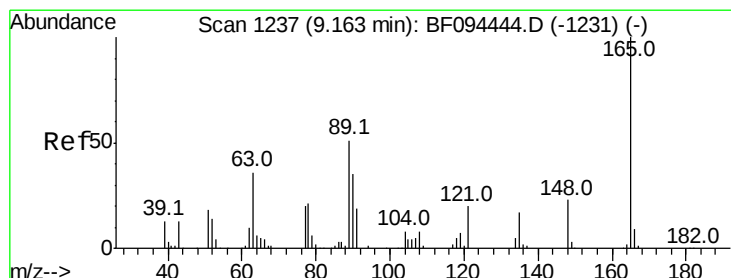
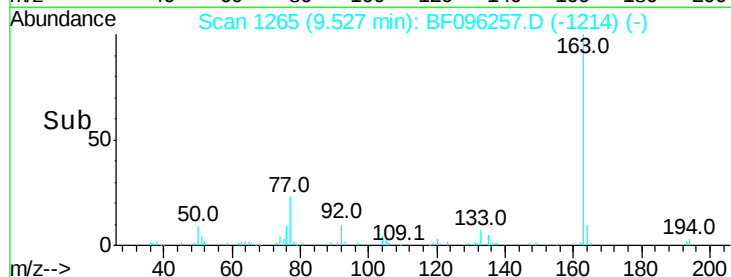
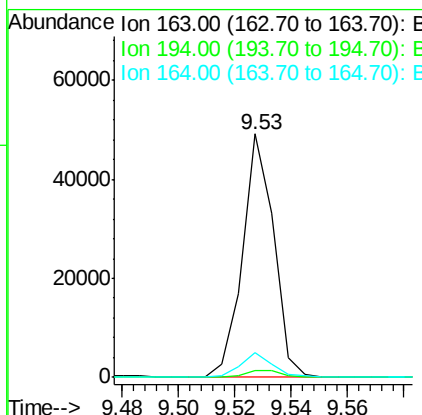
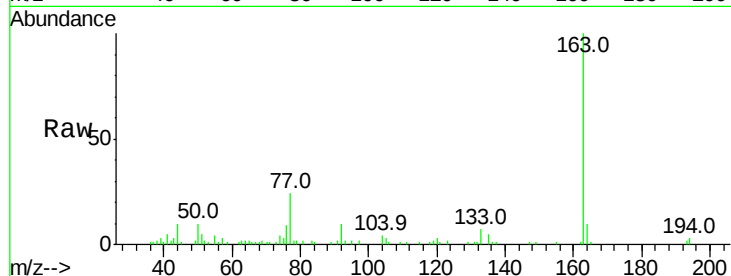




#49  
Dimethylphthalate  
Concen: 2.22 ng  
RT: 9.53 min Scan# 1265  
Delta R.T. -0.00 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

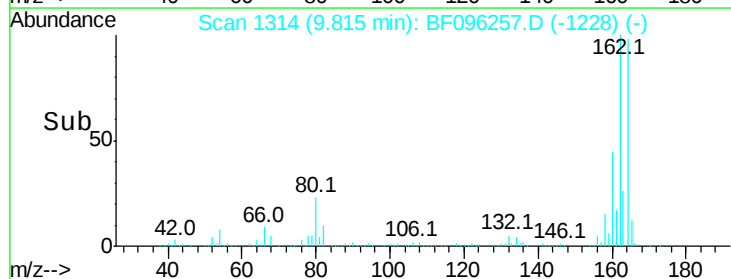
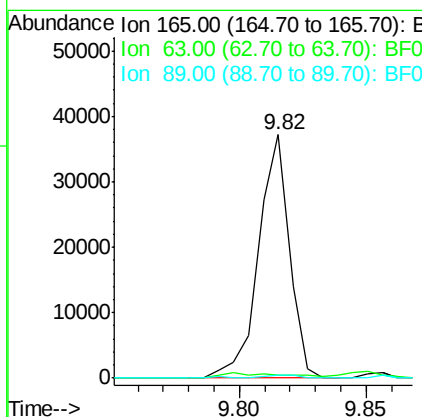
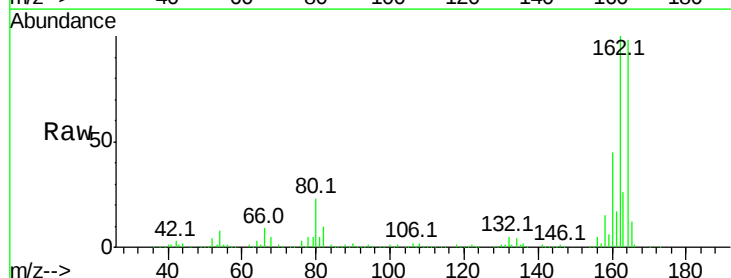
Instrument :  
BNA\_F  
ClientSampleId :

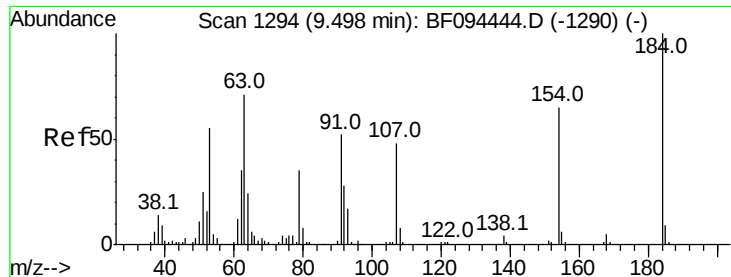
Tot Ion:163 Resp: 37646  
Ion Ratio Lower Upper  
163 100  
194 2.7 2.6 4.0  
164 10.1 8.4 12.6



#50  
2,6-Dinitrotoluene  
Concen: 9.03 ng  
RT: 9.82 min Scan# 1314  
Delta R.T. 0.21 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

Tgt Ion:165 Resp: 31783  
Ion Ratio Lower Upper  
165 100  
63 1.3 34.3 51.5#  
89 1.4 37.1 55.7#

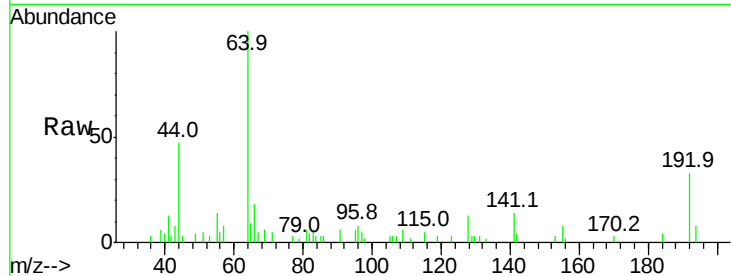




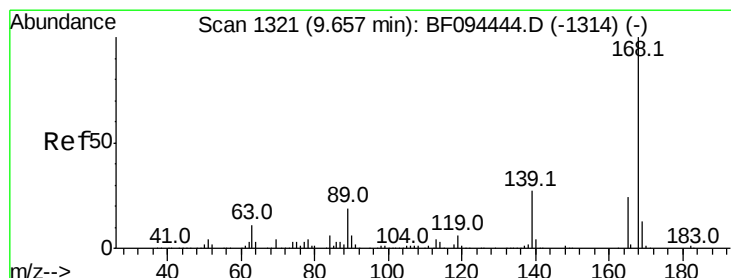
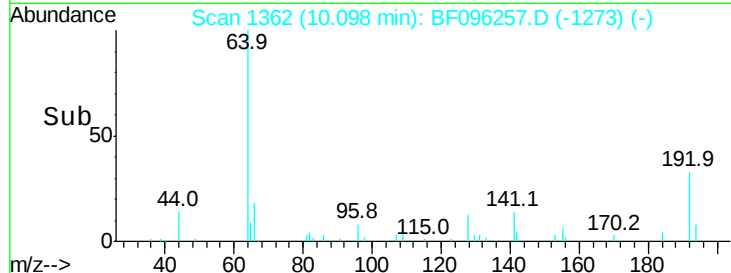
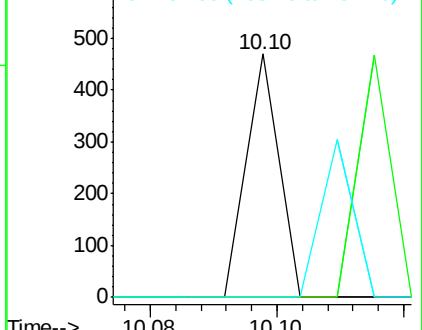
#53  
 2,4-Dinitrophenol  
 Concen: 7.68 ng  
 RT: 10.10 min Scan# 1362  
 Delta R.T. 0.22 min  
 Lab File: BF096257.D  
 Acq: 28 Jun 2017 18:51

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:184 Resp: 166  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 62.7 94.1#  
 154 0.0 81.1 121.7#

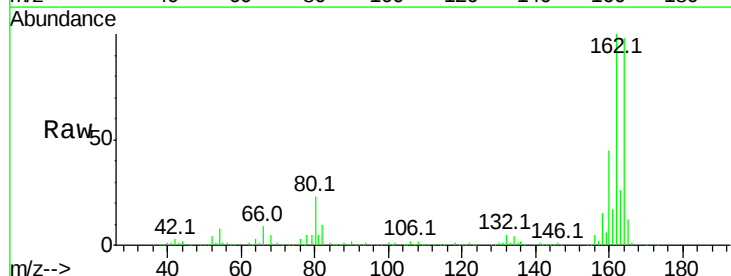


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 154.00 (153.70 to 154.70): E

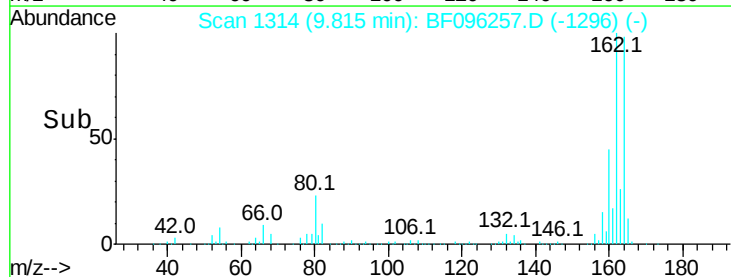
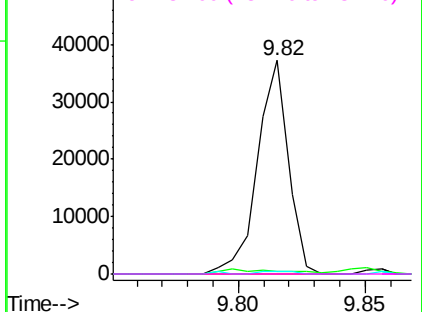


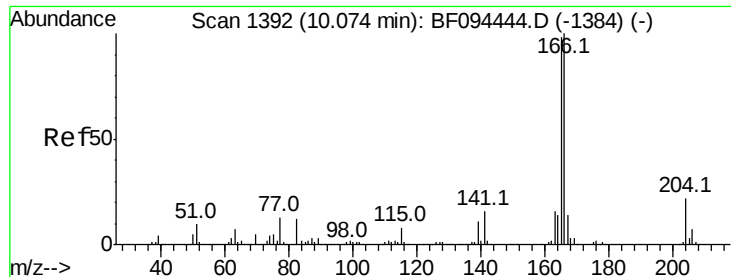
#56  
 2,4-Dinitrotoluene  
 Concen: 7.16 ng  
 RT: 9.82 min Scan# 1314  
 Delta R.T. -0.19 min  
 Lab File: BF096257.D  
 Acq: 28 Jun 2017 18:51

Tgt Ion:165 Resp: 31783  
 Ion Ratio Lower Upper  
 165 100  
 63 1.3 25.4 38.0#  
 89 1.4 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





#57

Fluorene

Concen: Below Cal

RT: 10.36 min Scan# 1406

Delta R.T. -0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :

BNA\_F

ClientSampleId :

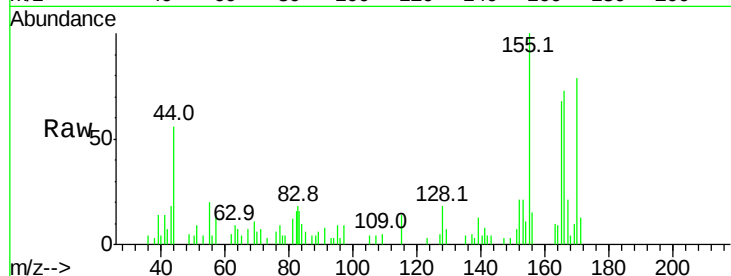
Tot Ion:166 Resp: 7861

Ion Ratio Lower Upper

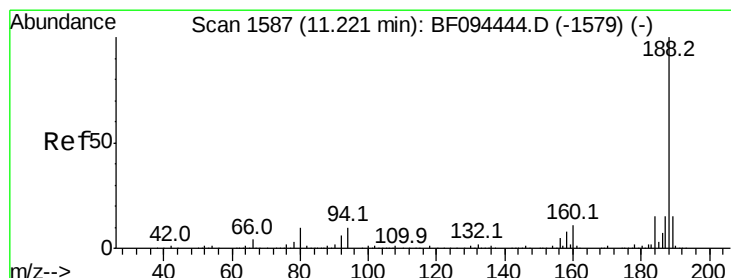
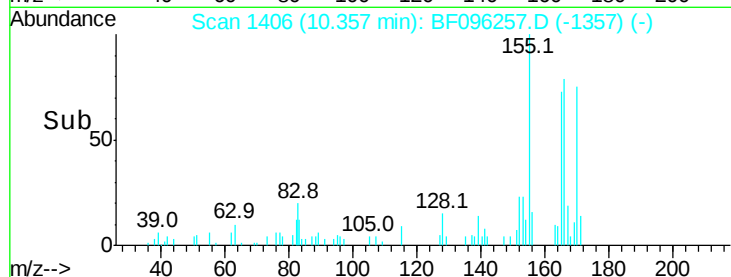
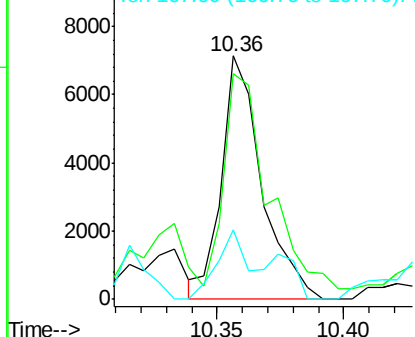
166 100

165 92.6 78.8 118.2

167 28.7 10.6 16.0#



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 1565

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

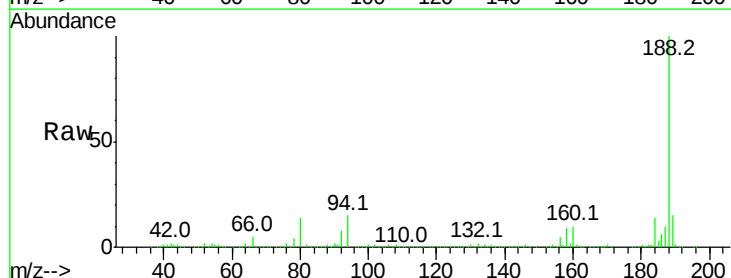
Tgt Ion:188 Resp: 381569

Ion Ratio Lower Upper

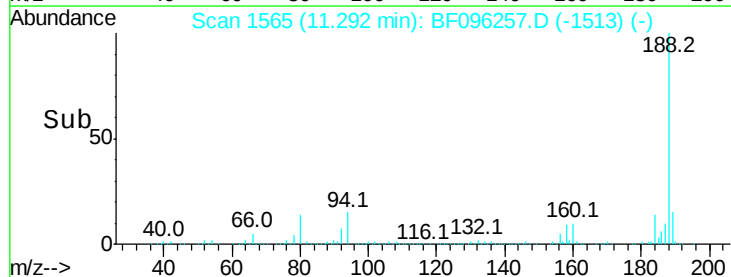
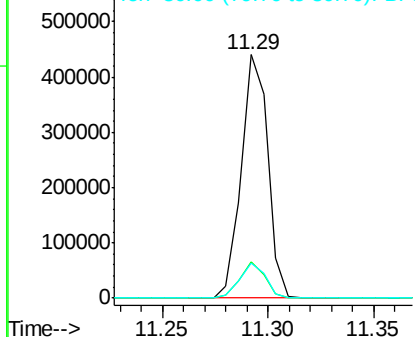
188 100

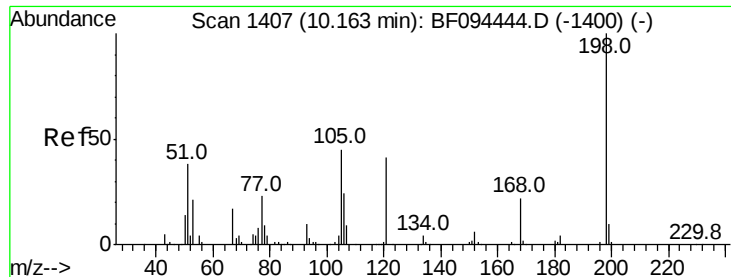
94 14.6 9.4 14.2#

80 14.4 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

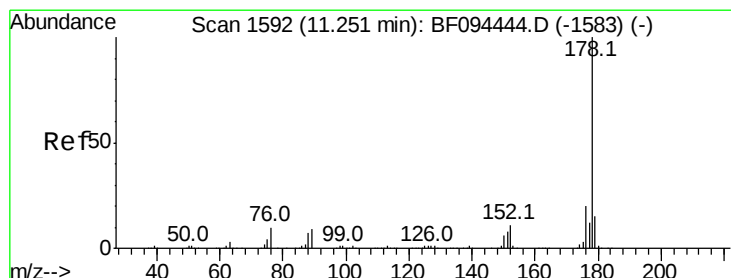
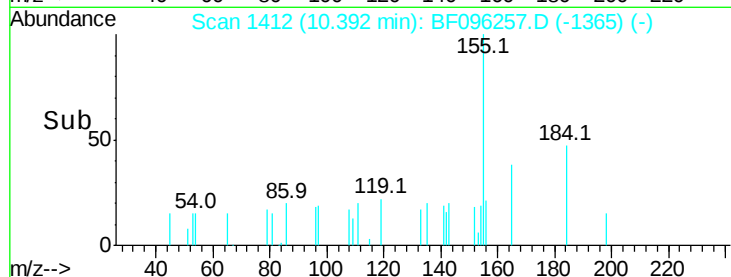
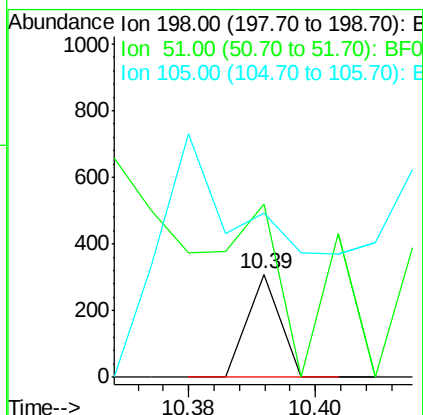
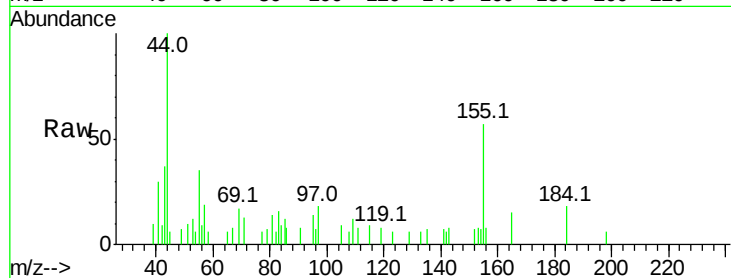




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.79 ng  
 RT: 10.39 min Scan# 1412  
 Delta R.T. -0.02 min  
 Lab File: BF096257.D  
 Acq: 28 Jun 2017 18:51

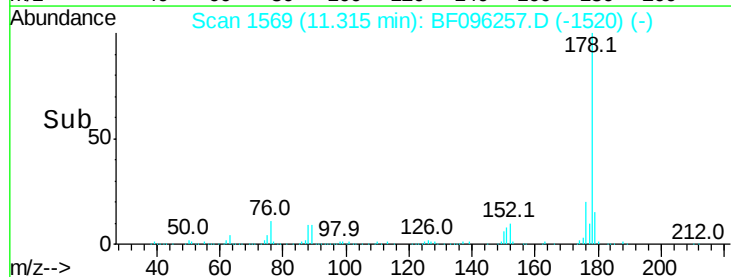
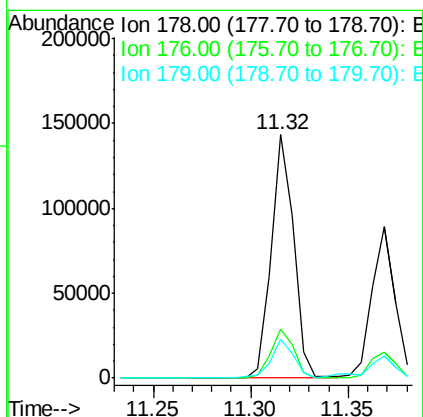
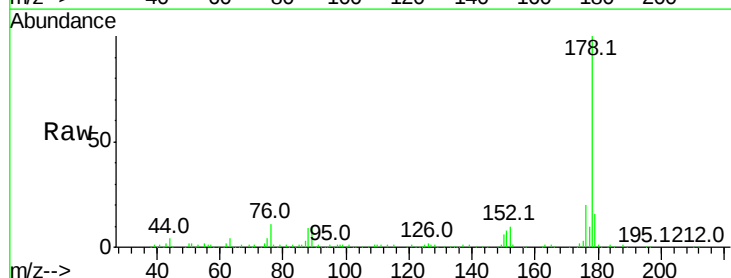
Instrument :  
 BNA\_F  
 ClientSampled :

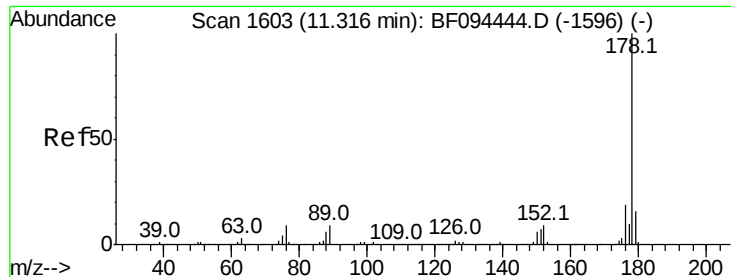
Tot Ion:198 Resp: 109  
 Ion Ratio Lower Upper  
 198 100  
 51 167.1 53.2 93.2#  
 105 159.0 45.8 85.8#



#70  
 Phenanthrene  
 Concen: Below Cal  
 RT: 11.32 min Scan# 1569  
 Delta R.T. -0.01 min  
 Lab File: BF096257.D  
 Acq: 28 Jun 2017 18:51

Tgt Ion:178 Resp: 114229  
 Ion Ratio Lower Upper  
 178 100  
 176 20.4 16.2 24.4  
 179 15.7 12.6 19.0





#71

Anthracene

Concen: 3.40 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

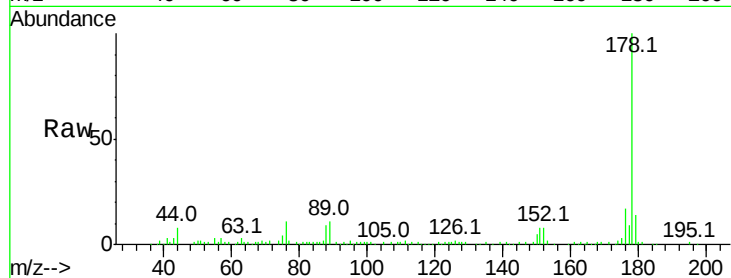
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 72416

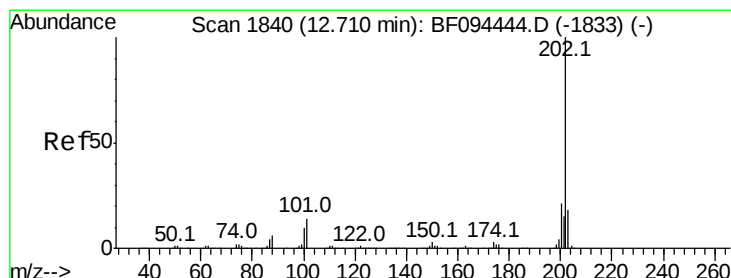
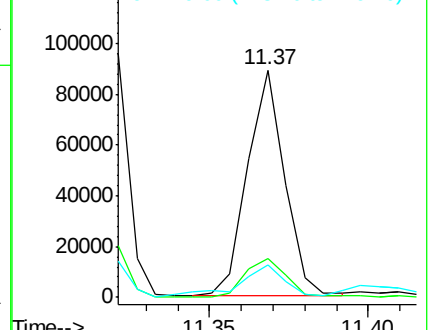
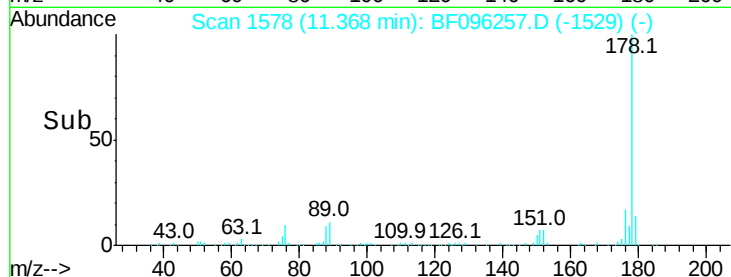
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 16.9  | 15.8  | 23.8  |
| 179 | 14.3  | 12.7  | 19.1  |



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: 13.18 ng

RT: 12.50 min Scan# 1771

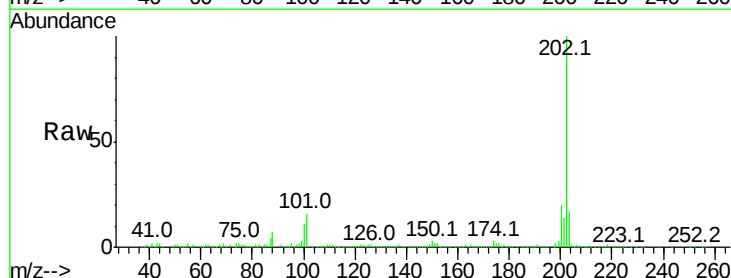
Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Tgt Ion:202 Resp: 279440

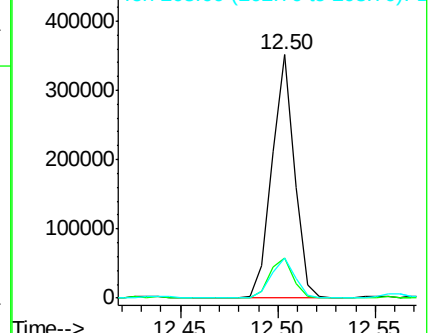
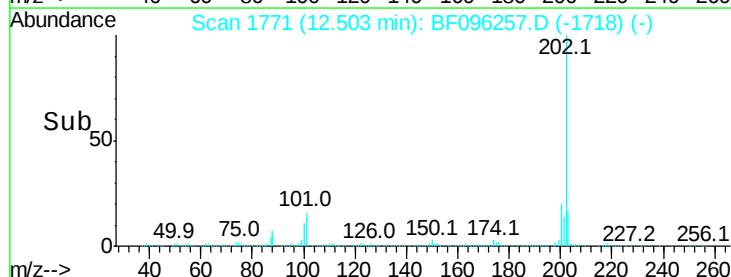
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 16.2  | 0.0   | 33.2  |
| 203 | 16.7  | 0.0   | 38.1  |

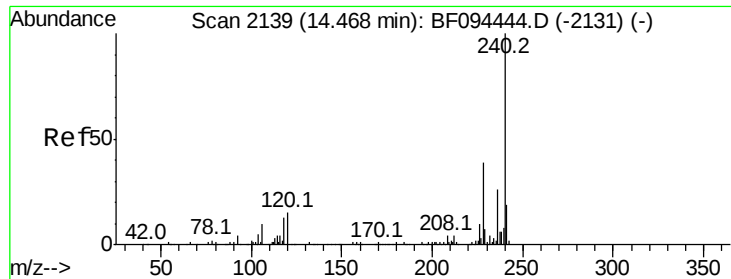


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.93 min Scan# 2013

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :

BNA\_F

ClientSampleId :

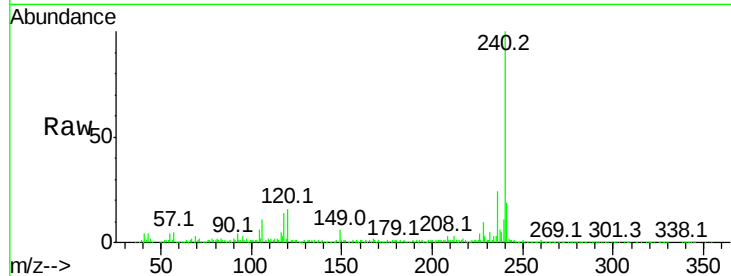
Tot Ion:240 Resp: 346304

Ion Ratio Lower Upper

240 100

120 15.9 5.8 8.8#

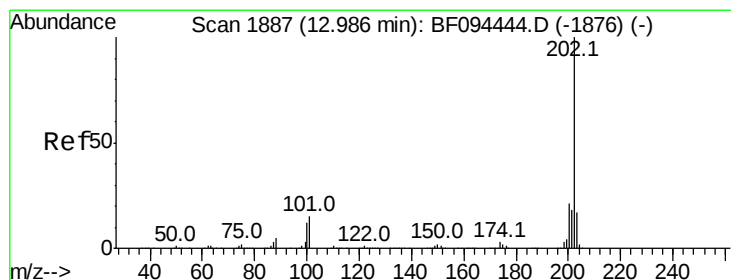
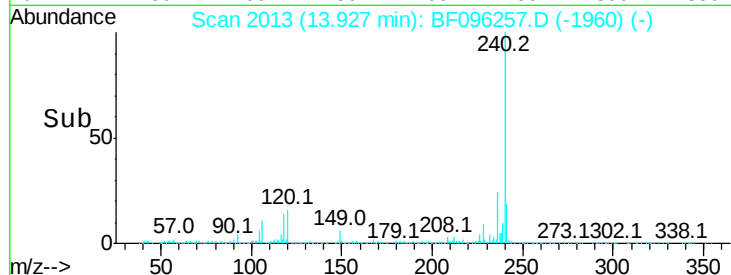
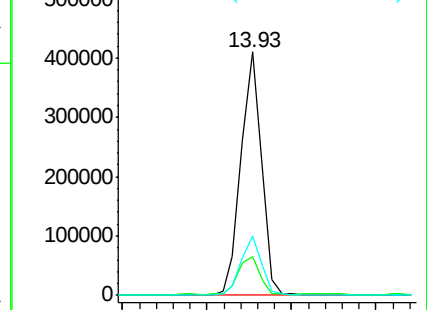
236 24.4 20.5 30.7



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



#77

Pyrene

Concen: 9.89 ng

RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

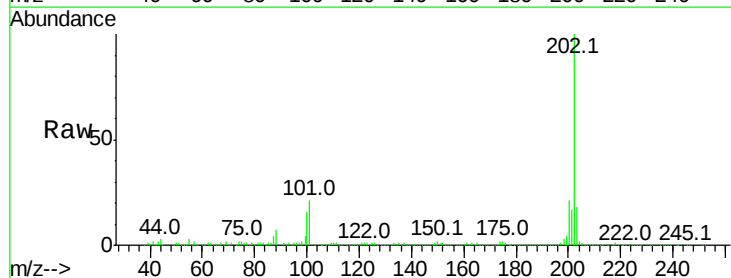
Tgt Ion:202 Resp: 281611

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

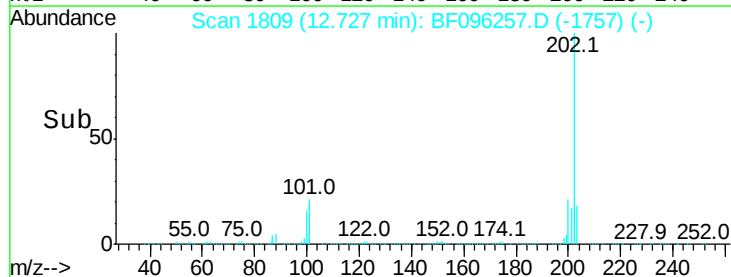
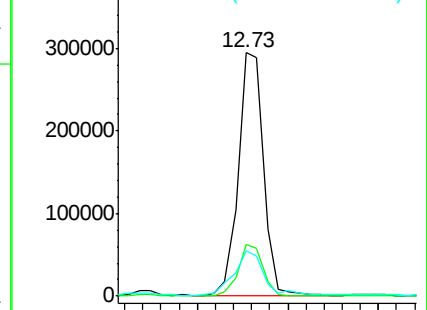
203 18.3 14.4 21.6

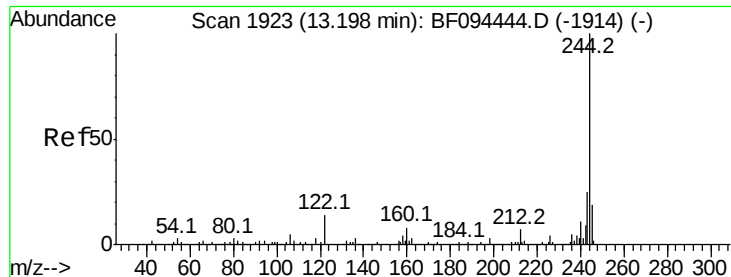


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 16.60 ng

RT: 12.87 min Scan# 1834

Delta R.T. 0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :

BNA\_F

ClientSampleId :

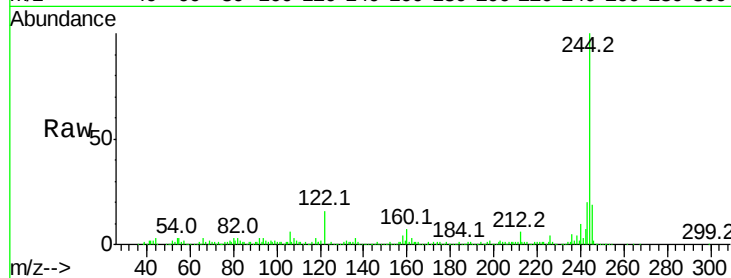
Tot Ion:244 Resp: 230367

Ion Ratio Lower Upper

244 100

212 6.2 6.0 9.0

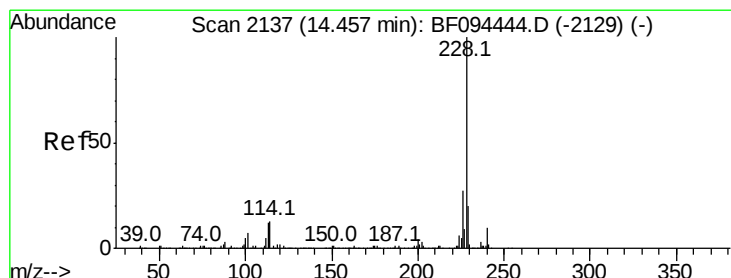
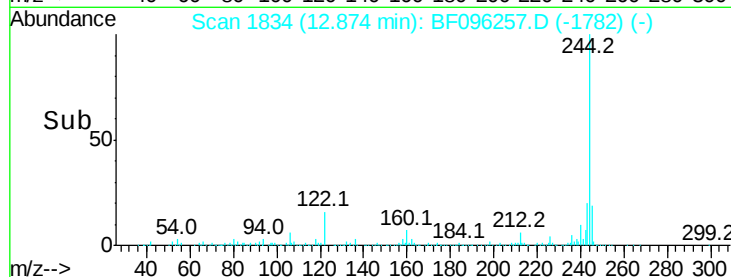
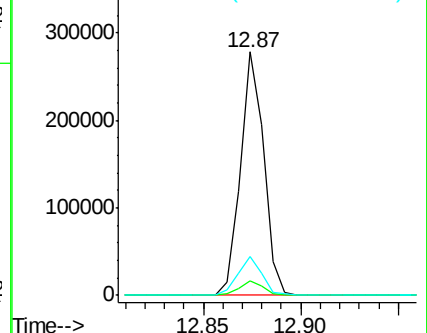
122 15.8 10.3 15.5#



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



#80

Benzo(a)anthracene

Concen: 8.53 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.05 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

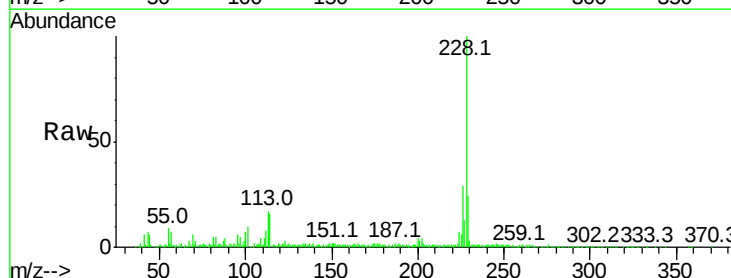
Tgt Ion:228 Resp: 180163

Ion Ratio Lower Upper

228 100

226 28.9 22.6 33.8

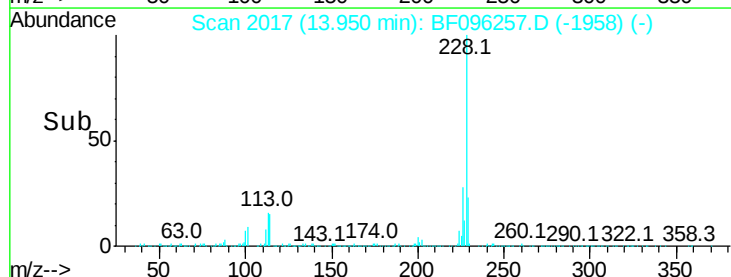
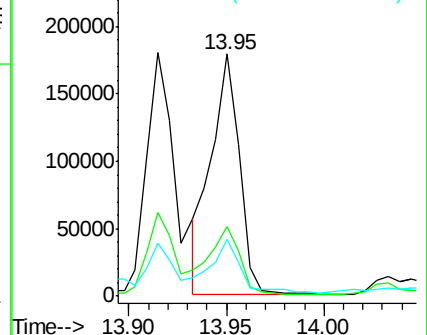
229 23.6 16.3 24.5

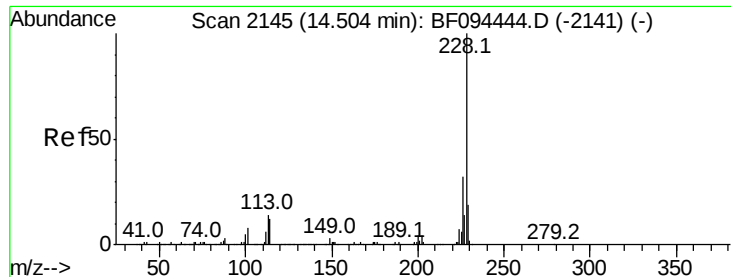


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

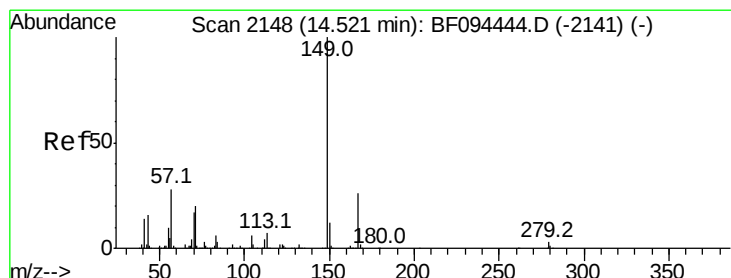
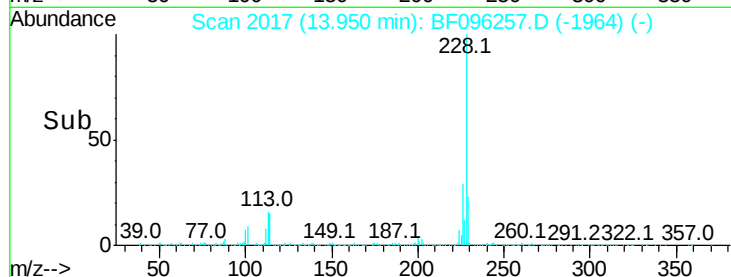
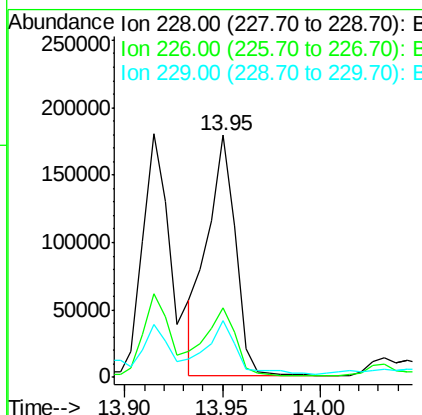
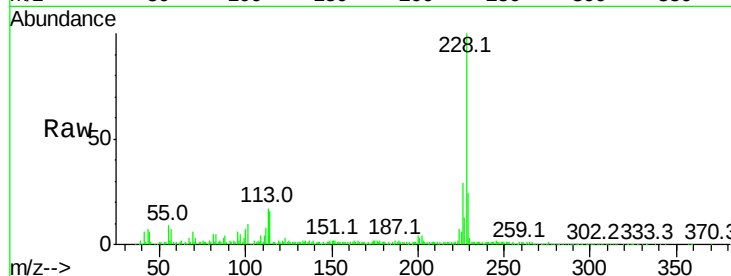




#82  
Chrysene  
Concen: 8.25 ng  
RT: 13.95 min Scan# 2017  
Delta R.T. 0.01 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

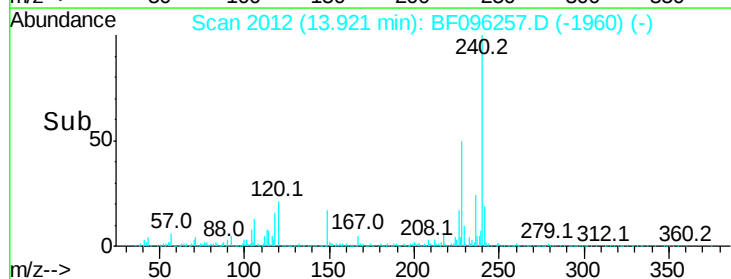
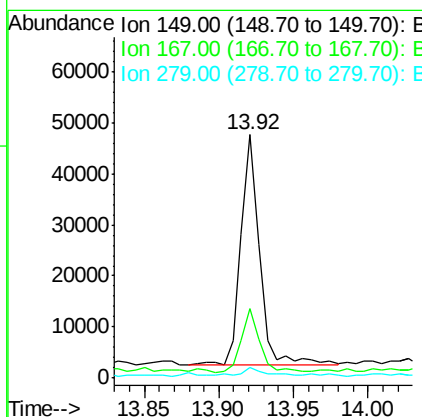
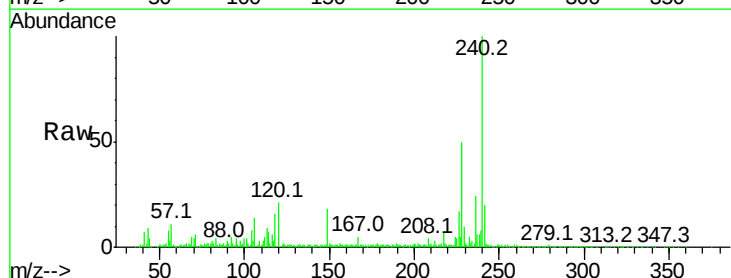
Instrument :  
BNA\_F  
ClientSampleId :

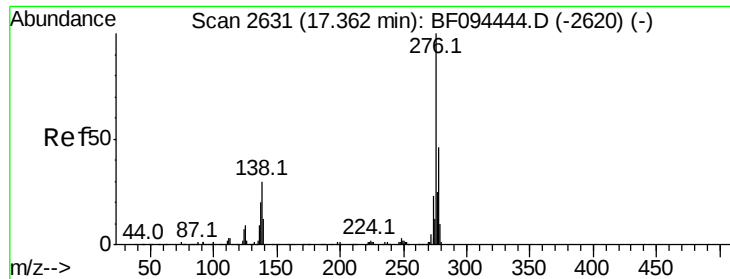
Tot Ion:228 Resp: 180163  
Ion Ratio Lower Upper  
228 100  
226 28.9 24.9 37.3  
229 23.6 15.8 23.6



#83  
Bis(2-ethylhexyl)phthalate  
Concen: 2.80 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. 0.01 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

Tgt Ion:149 Resp: 39720  
Ion Ratio Lower Upper  
149 100  
167 28.8 21.0 31.4  
279 4.3 1.9 2.9#

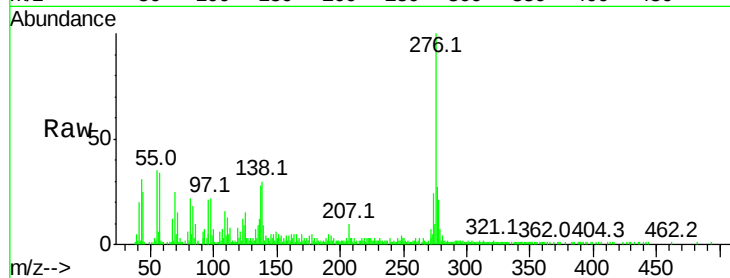




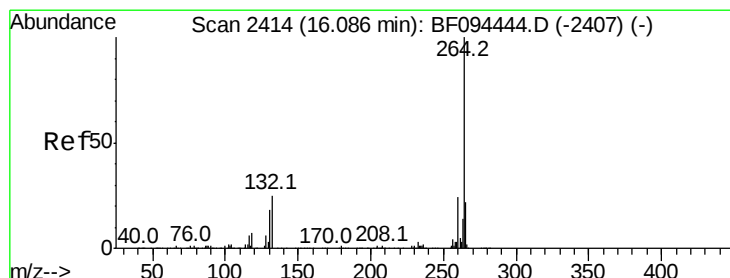
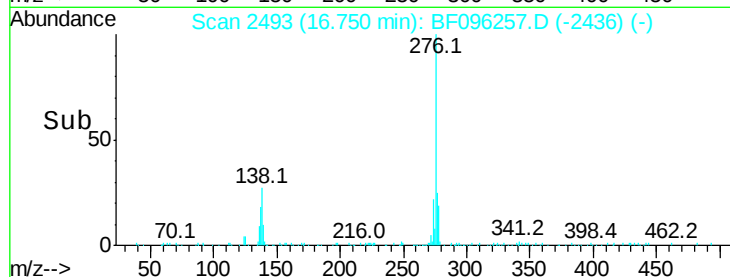
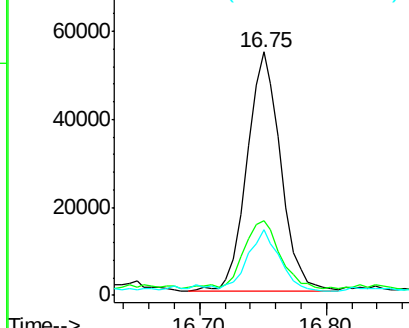
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 5.60 ng  
RT: 16.75 min Scan# 2493  
Delta R.T. 0.03 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.9  | 27.8  | 41.6  |
| 277     | 24.1  | 20.2  | 30.4  |

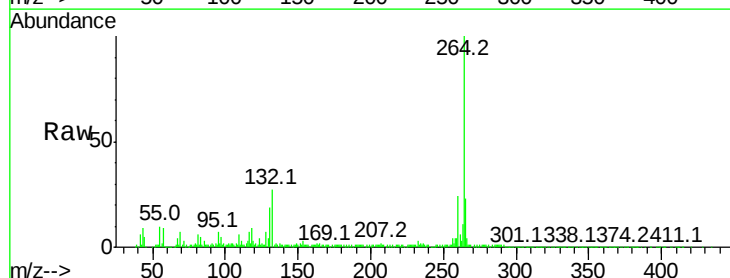


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

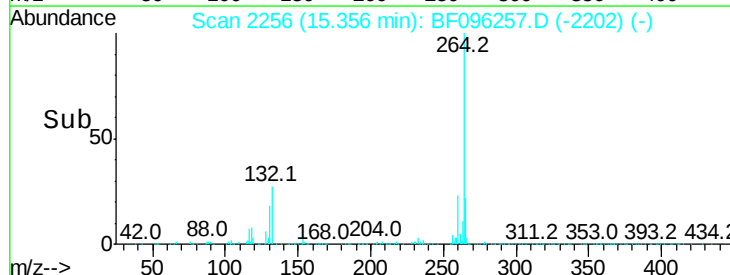
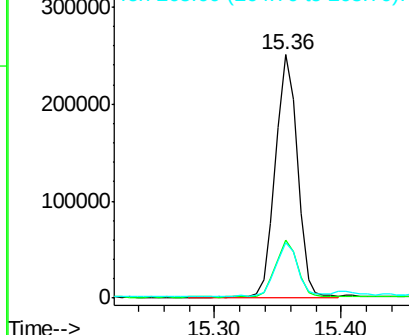


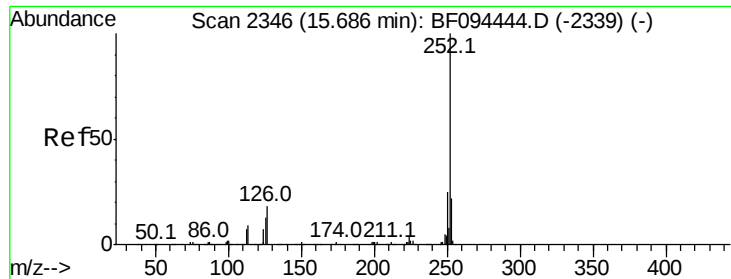
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. 0.02 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.5  | 29.3  |
| 265     | 22.9  | 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: 19.96 ng

RT: 14.95 min Scan# 2187

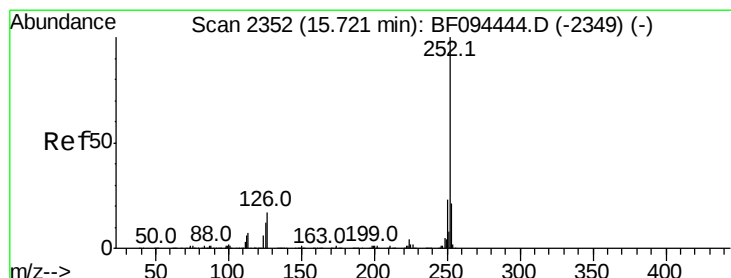
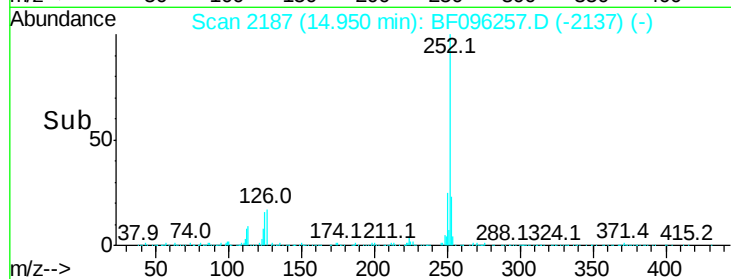
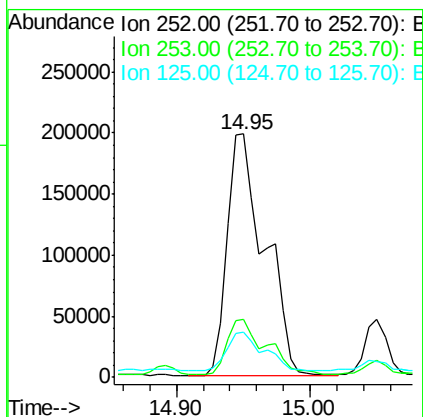
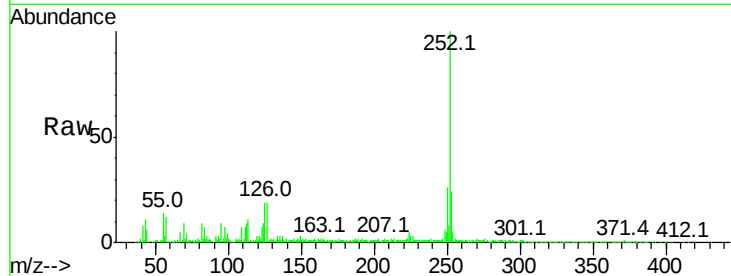
Delta R.T. -0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.1  | 27.1  |
| 125     | 18.7  | 9.8   | 14.8# |



#88

Benzo(k)fluoranthene

Concen: 21.86 ng

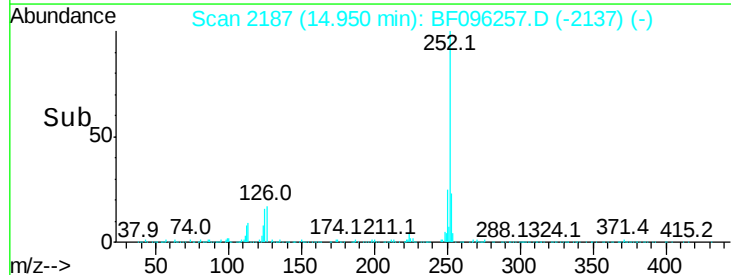
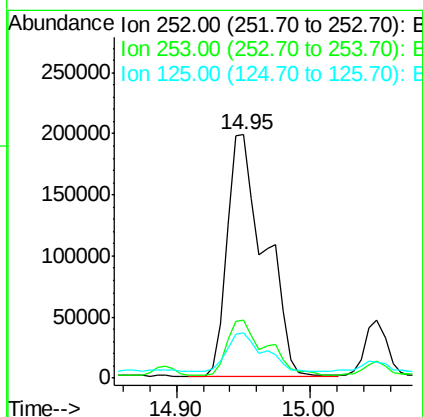
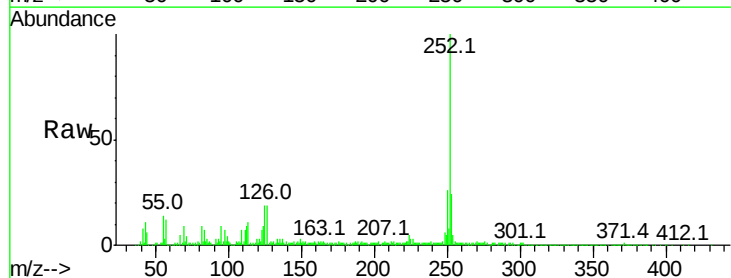
RT: 14.95 min Scan# 2187

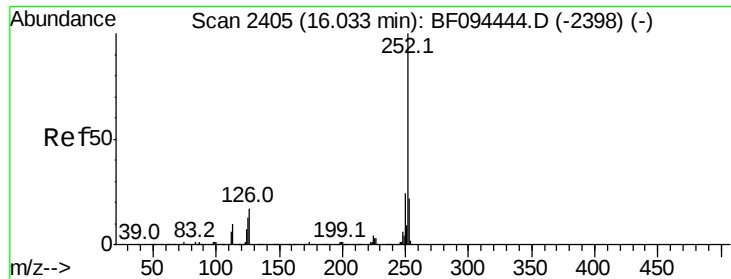
Delta R.T. -0.01 min

Lab File: BF096257.D

Acq: 28 Jun 2017 18:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.4  | 27.6  |
| 125     | 18.7  | 13.1  | 19.7  |

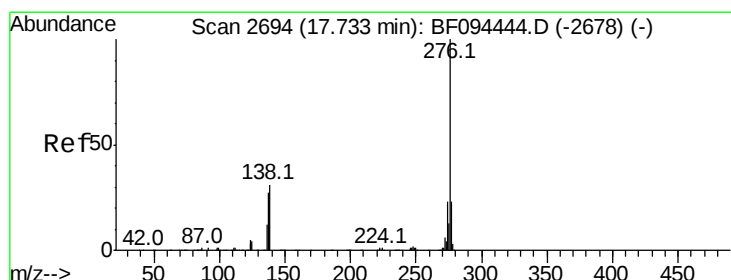
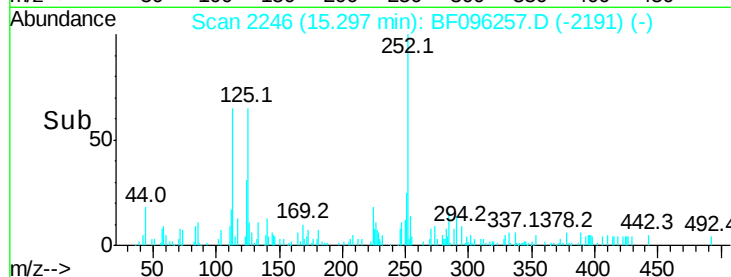
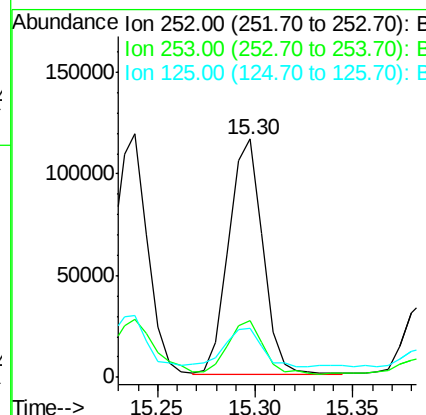
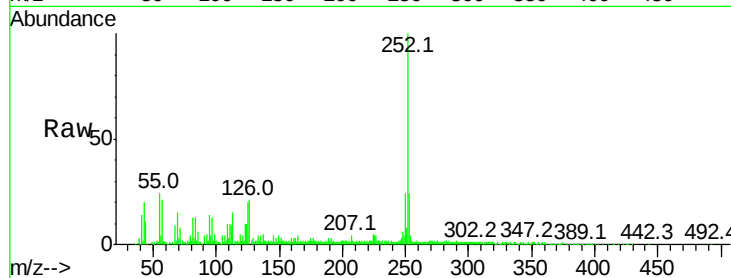




#89  
Benzo(a)pyrene  
Concen: 8.18 ng  
RT: 15.30 min Scan# 2246  
Delta R.T. 0.02 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 141529  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.5 26.3  
125 20.4 11.0 16.4#



#91  
Benzo(g,h,i)perylene  
Concen: 6.18 ng  
RT: 17.17 min Scan# 2564  
Delta R.T. 0.03 min  
Lab File: BF096257.D  
Acq: 28 Jun 2017 18:51

Tgt Ion:276 Resp: 87014  
Ion Ratio Lower Upper  
276 100  
277 23.8 18.6 28.0  
138 32.9 25.4 38.0

