

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070117\  
 Data File : BF096399.D  
 Acq On : 2 Jul 2017 00:44  
 Operator : SJ/MA  
 Sample : I3982-10 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 03 01:53:46 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 01:43:12 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 135701   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.02  | 136  | 502962   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.76  | 164  | 179284   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.25 | 188  | 311958   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.87 | 240  | 286864   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.29 | 264  | 178176   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.34  | 112  | 423894   | 46.11 | ng    | 0.00     |
| 7) Phenol-d6                | 6.36  | 99   | 470620   | 41.64 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 246081   | 29.40 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 68512    | 48.92 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 406993   | 38.81 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.83 | 244  | 342549   | 25.52 | ng    | 0.00     |

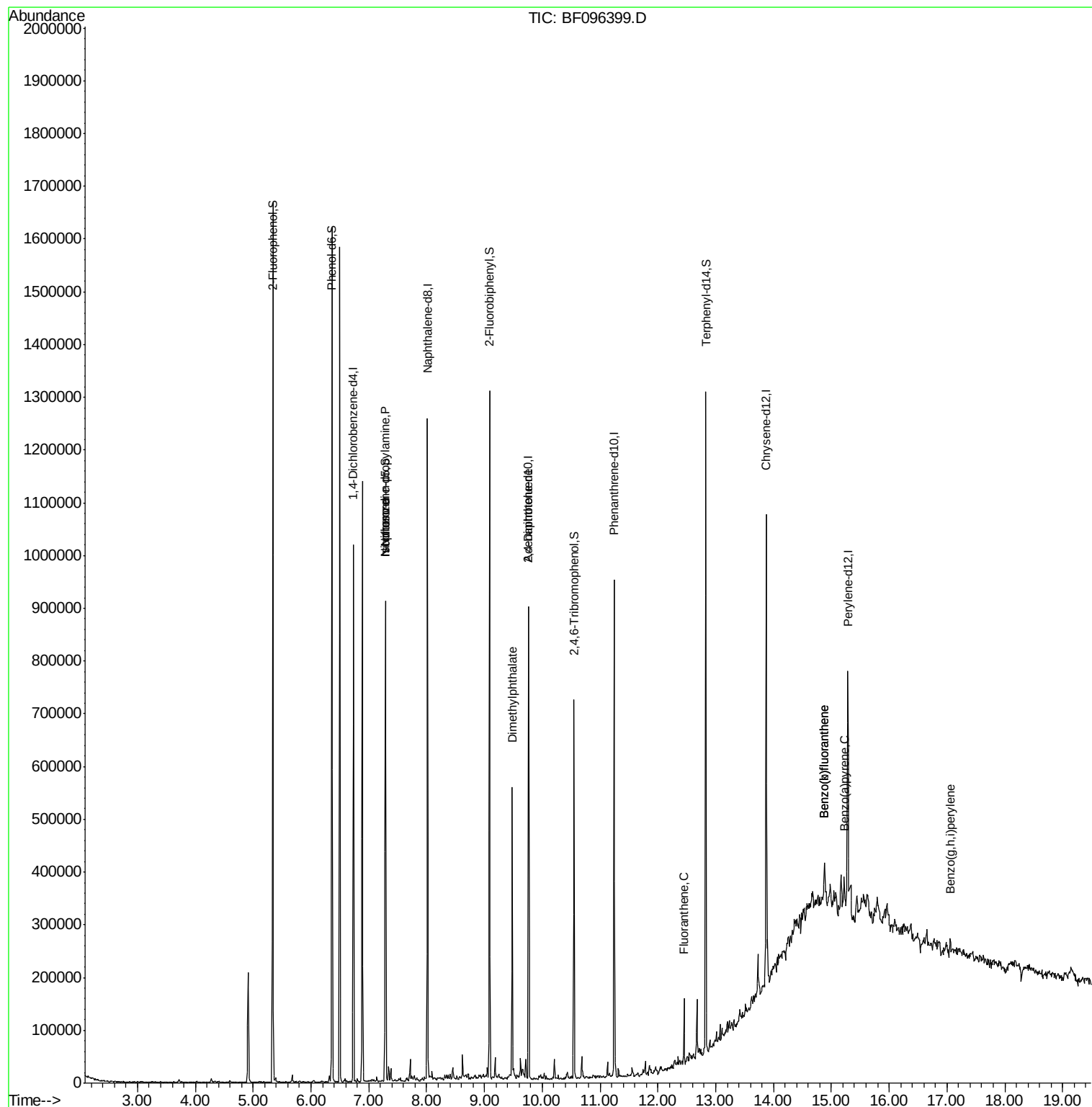
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 31798    | 4.72  | ng    | # 88   |
| 25) Isophorone                 | 7.29  | 82   | 245385   | 15.12 | ng    | # 67   |
| 49) Dimethylphthalate          | 9.48  | 163  | 194737   | 14.55 | ng    | 99     |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 23777    | 6.34  | ng    | # 33   |
| 74) Fluoranthene               | 12.45 | 202  | 39185    | 2.37  | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 14.88 | 252  | 48535    | 4.35  | ng    | # 80   |
| 88) Benzo(k)fluoranthene       | 14.88 | 252  | 48535    | 4.86  | ng    | # 84   |
| 89) Benzo(a)pyrene             | 15.22 | 252  | 22886    | 2.30  | ng    | # 82   |
| 91) Benzo(g,h,i)perylene       | 17.06 | 276  | 16259    | 2.00  | ng    | # 90   |

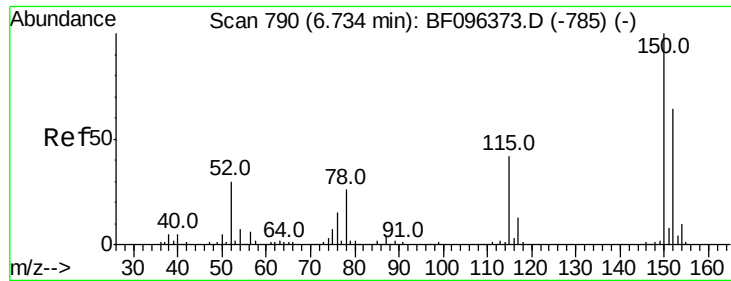
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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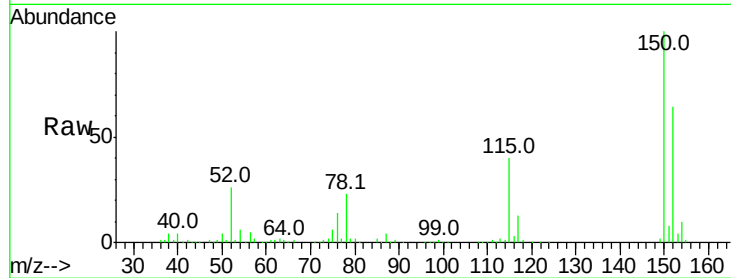


#1

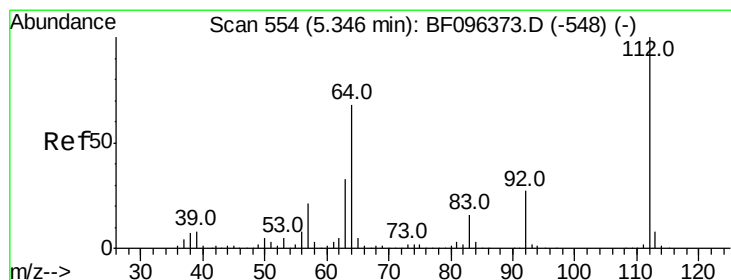
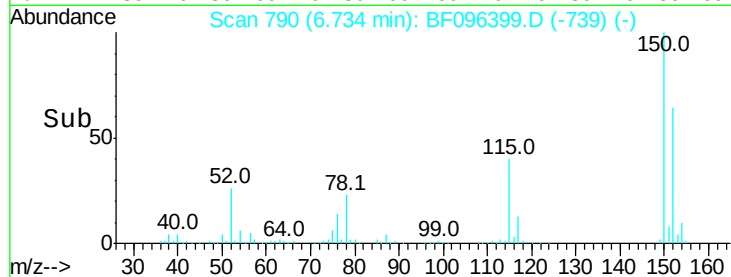
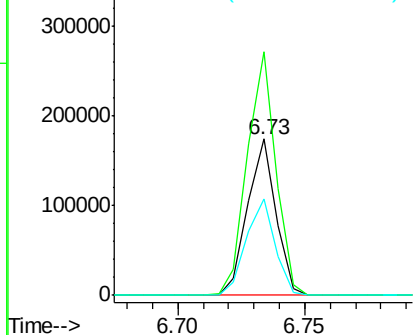
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.73 min Scan# 790  
Delta R.T. 0.00 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 135701  
Ion Ratio Lower Upper  
152 100  
150 155.9 126.2 189.2  
115 62.0 52.2 78.2



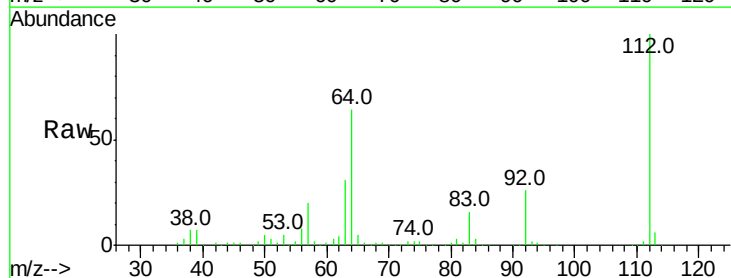
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



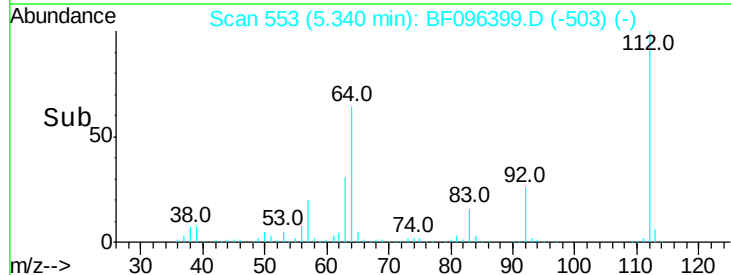
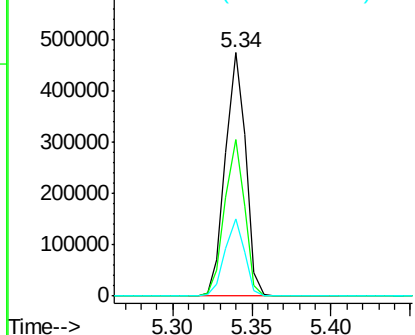
#5

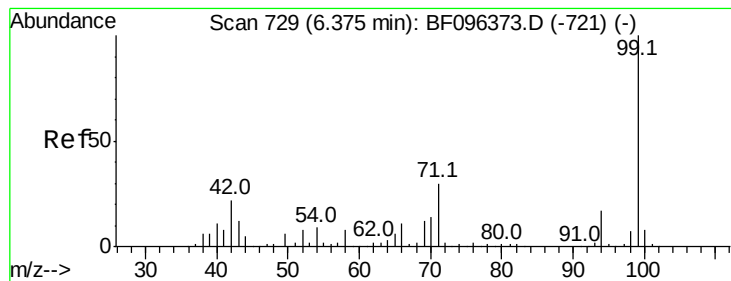
2-Fluorophenol  
Concen: 46.11 ng  
RT: 5.34 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

Tgt Ion:112 Resp: 423894  
Ion Ratio Lower Upper  
112 100  
64 64.2 46.0 69.0  
63 31.5 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: 41.64 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

Instrument :

BNA\_F

ClientSampleId :

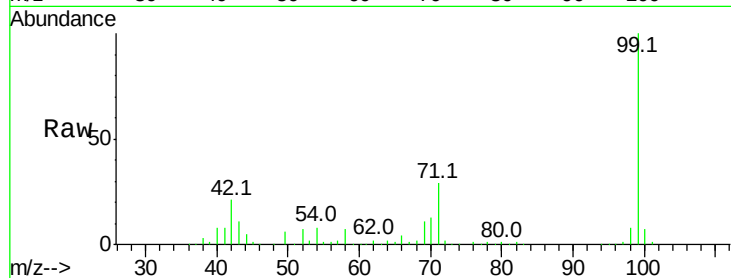
Tot Ion: 99 Resp: 470620

Ion Ratio Lower Upper

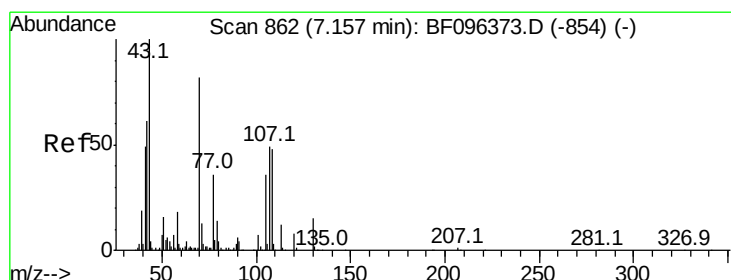
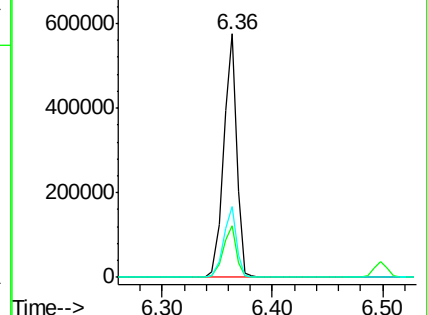
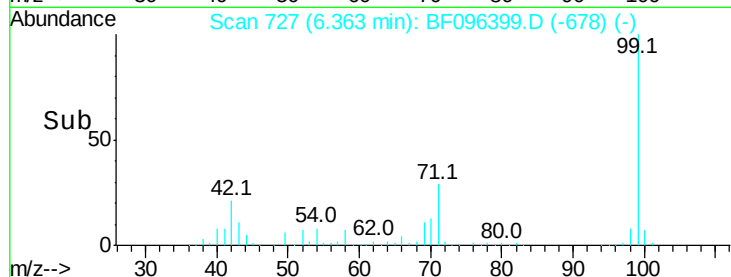
99 100

42 21.3 13.5 20.3#

71 29.3 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 4.72 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.13 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

Tgt Ion: 70 Resp: 31798

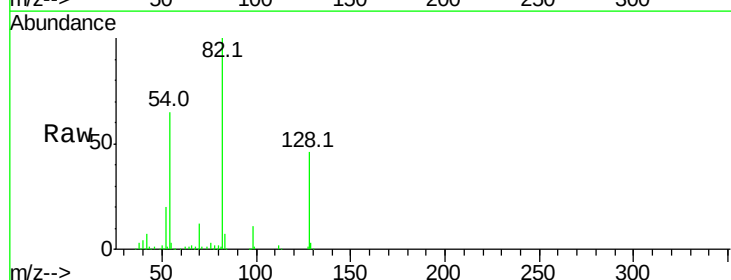
Ion Ratio Lower Upper

70 100

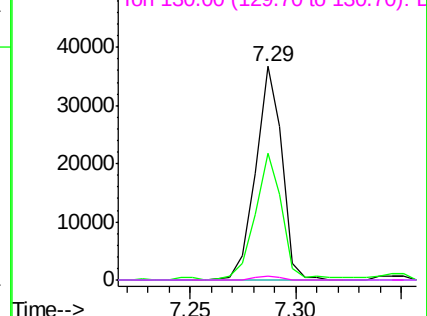
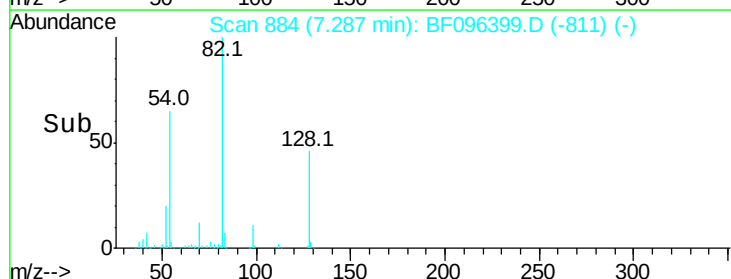
42 59.4 47.2 70.8

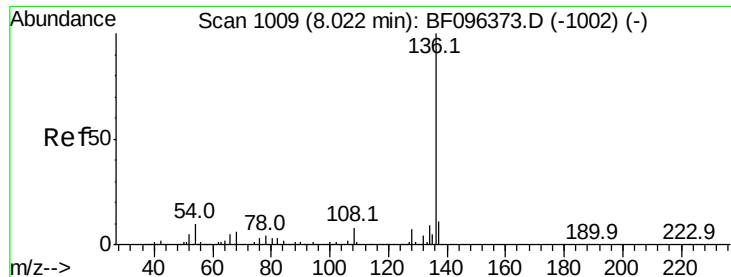
101 0.0 7.2 10.8#

130 1.7 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: 8.02 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 502962

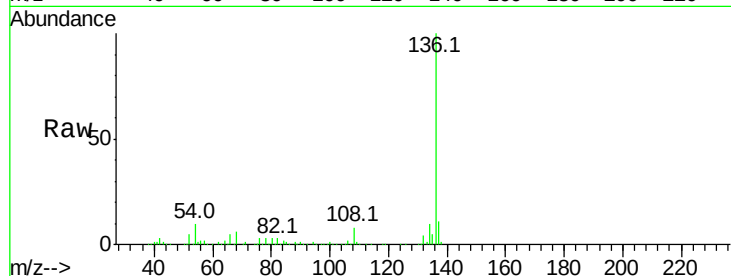
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 9.8 4.9 7.3#

68 6.3 4.1 6.1#

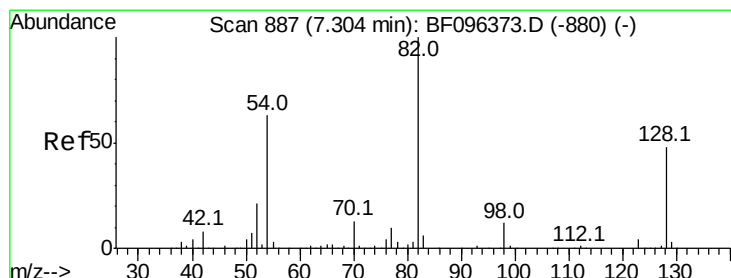
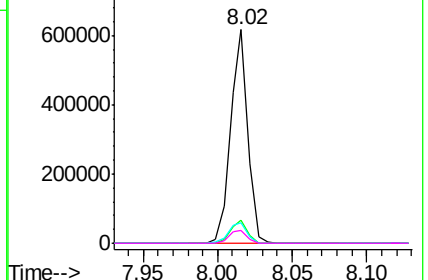
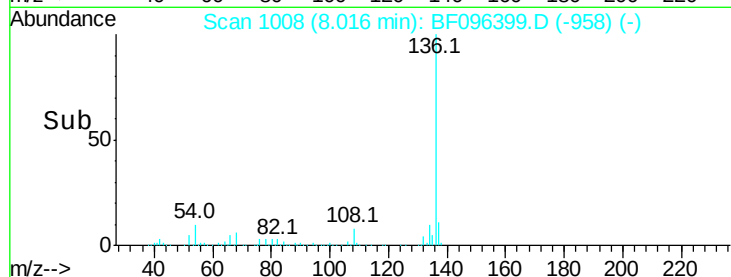


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 29.40 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.02 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

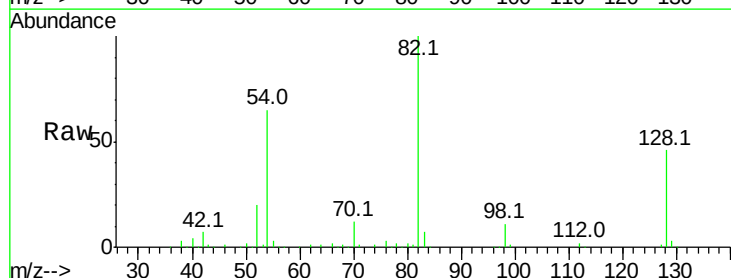
Tgt Ion: 82 Resp: 246081

Ion Ratio Lower Upper

82 100

128 45.7 34.0 51.0

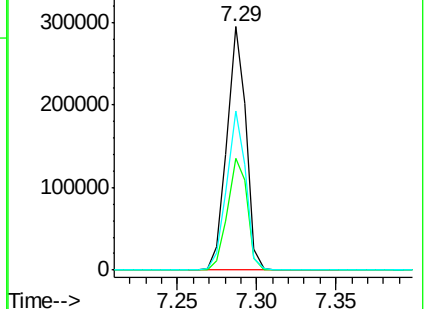
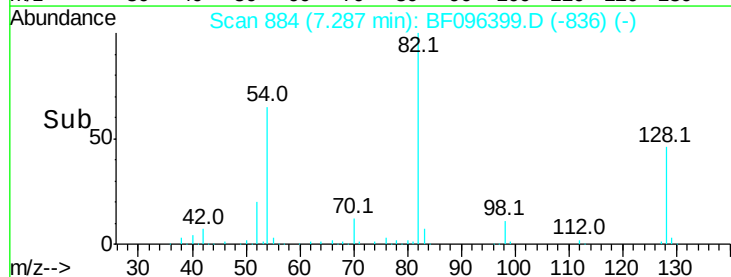
54 65.4 42.2 63.2#

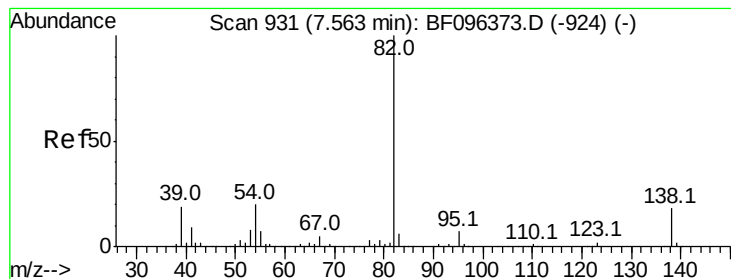


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 15.12 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.28 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

Instrument :

BNA\_F

ClientSampleId :

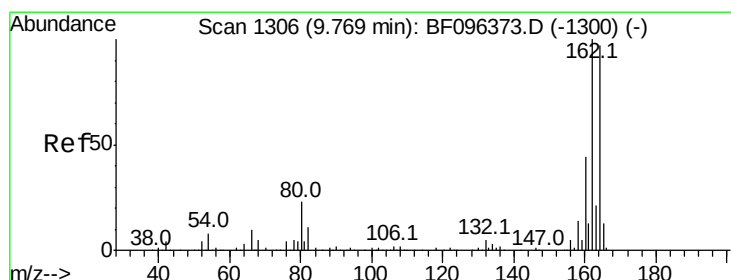
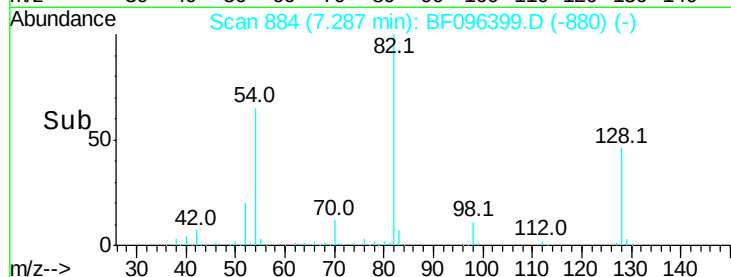
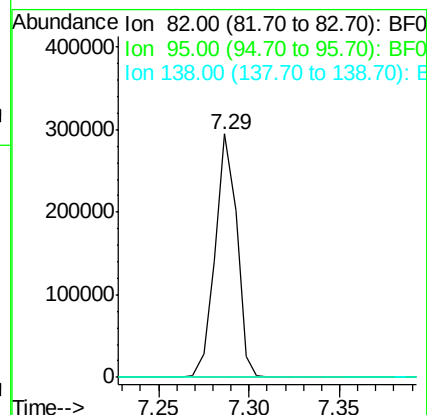
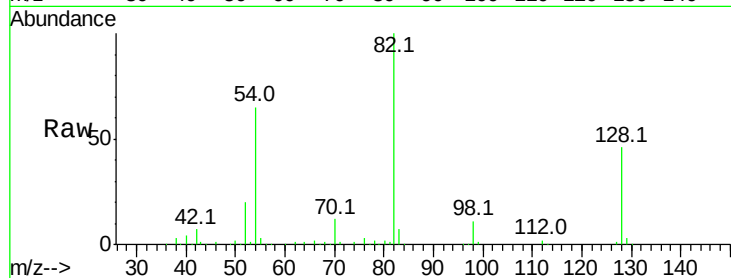
Tot Ion: 82 Resp: 245385

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: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

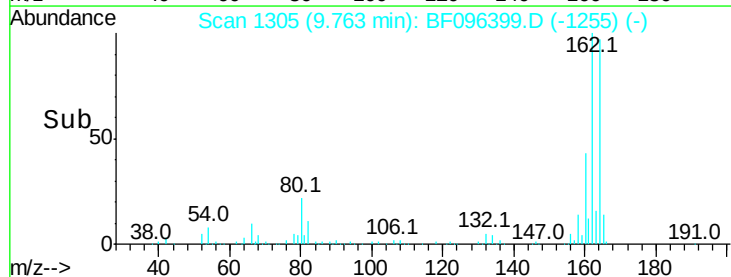
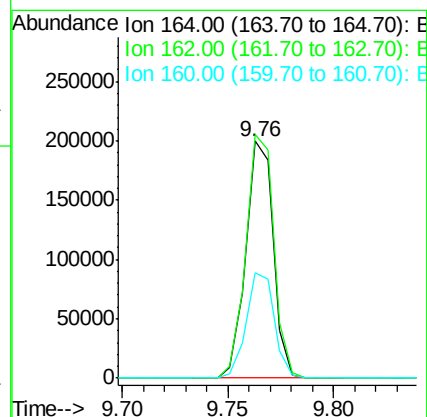
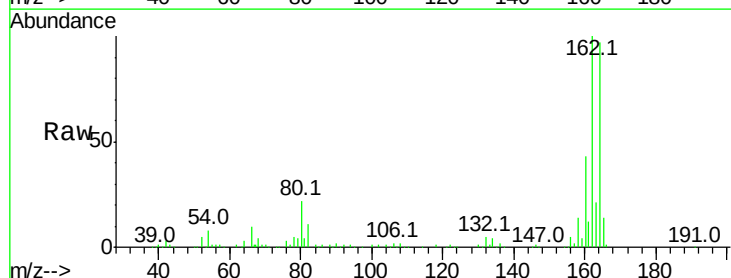
Tgt Ion:164 Resp: 179284

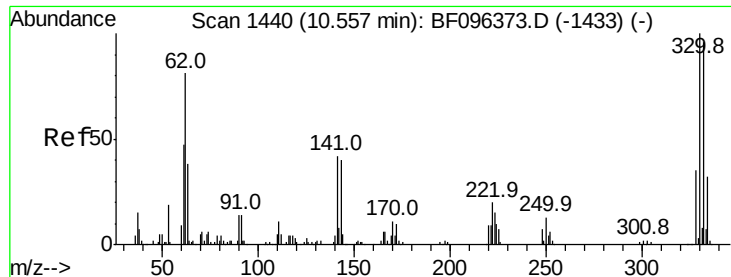
Ion Ratio Lower Upper

164 100

162 102.7 82.6 123.8

160 44.4 36.2 54.2

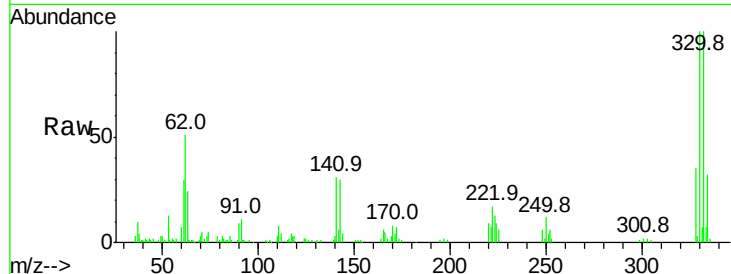




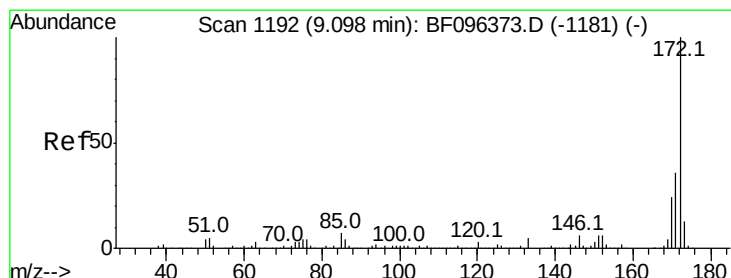
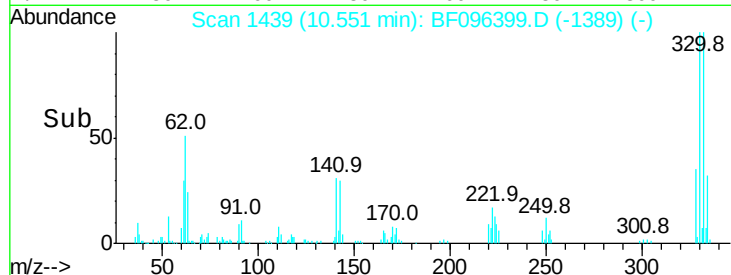
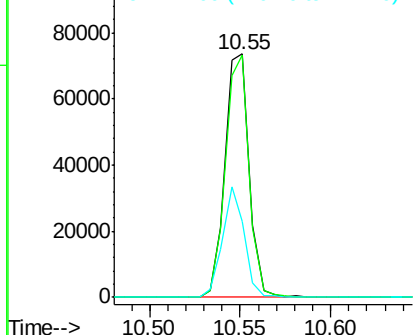
#41  
 2,4,6-Tribromophenol  
 Concen: 48.92 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF096399.D  
 Acq: 2 Jul 2017 00:44

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 68512  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 76.6 115.0  
 141 40.3 31.4 47.2

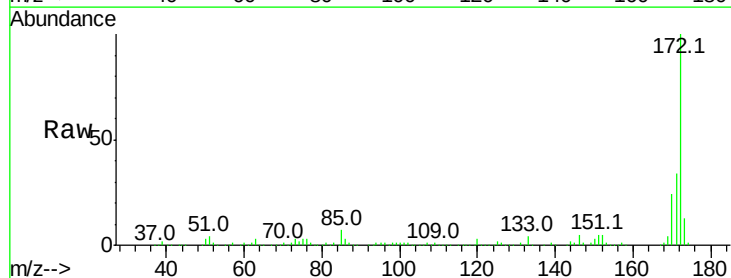


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

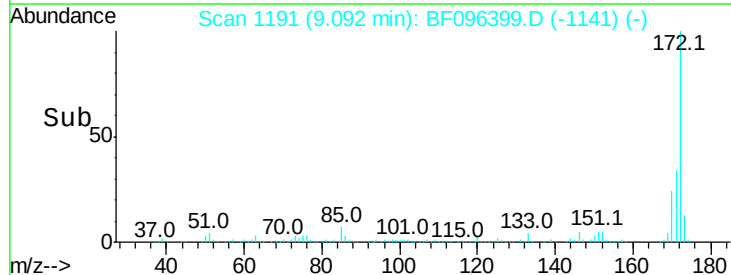
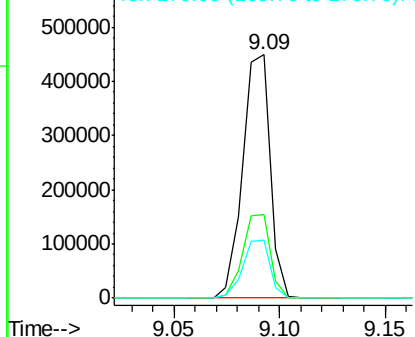


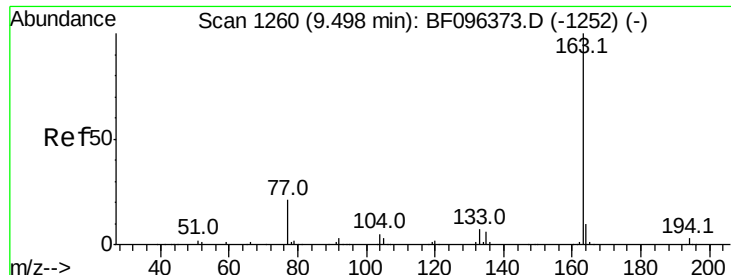
#44  
 2-Fluorobiphenyl  
 Concen: 38.81 ng  
 RT: 9.09 min Scan# 1191  
 Delta R.T. -0.01 min  
 Lab File: BF096399.D  
 Acq: 2 Jul 2017 00:44

Tgt Ion:172 Resp: 406993  
 Ion Ratio Lower Upper  
 172 100  
 171 34.4 29.6 44.4  
 170 23.6 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

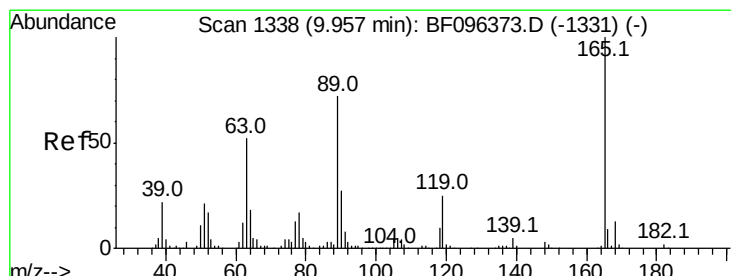
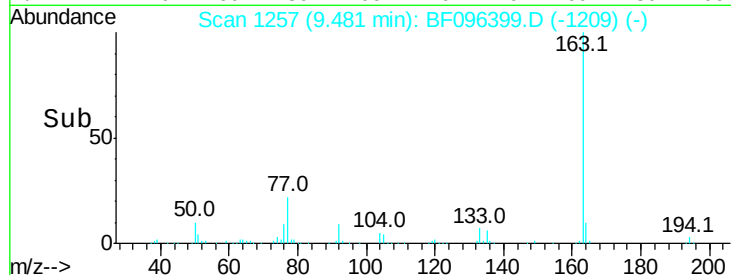
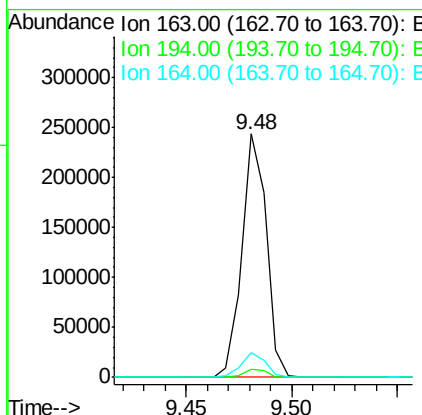
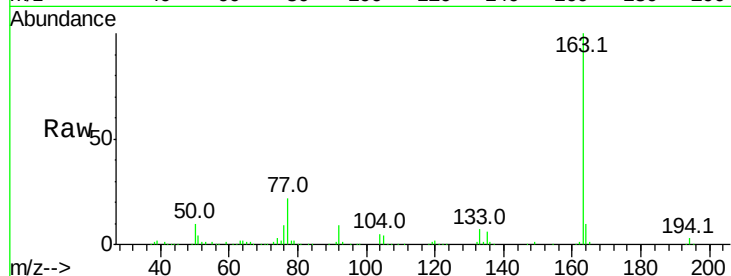




#49  
Dimethylphthalate  
Concen: 14.55 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

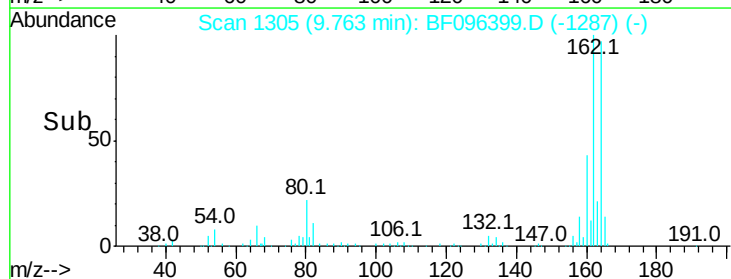
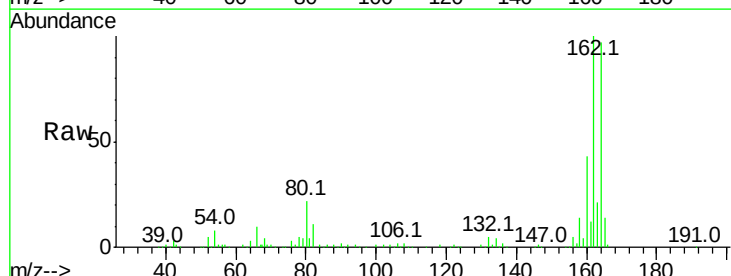
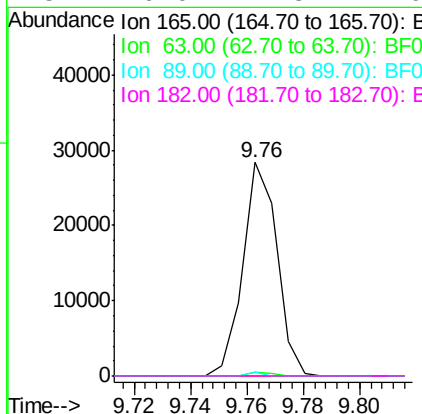
Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.2   | 2.6   | 4.0   |
| 164     | 10.2  | 8.4   | 12.6  |

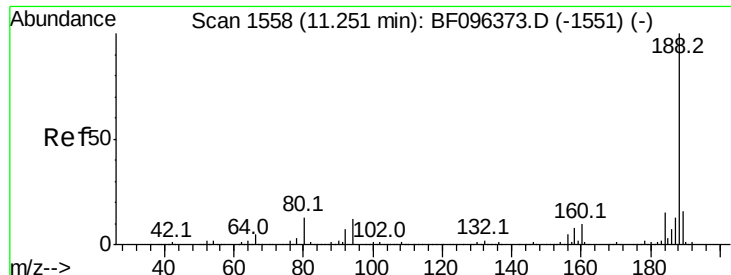


#56  
2,4-Dinitrotoluene  
Concen: 6.34 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.19 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 25.4  | 38.0# |
| 89      | 1.6   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |



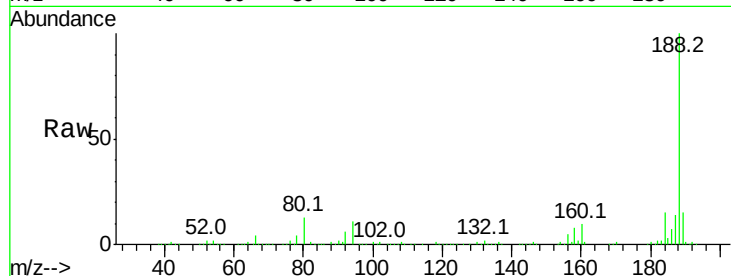




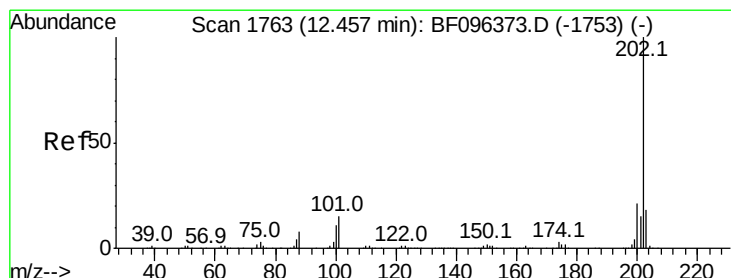
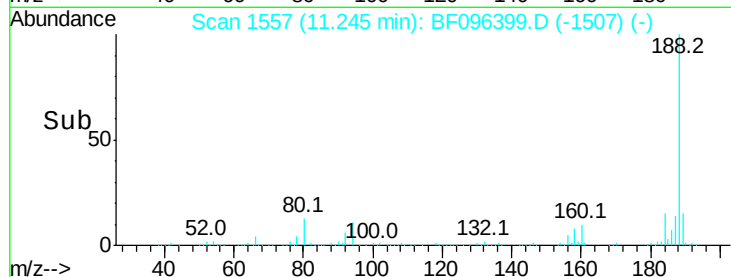
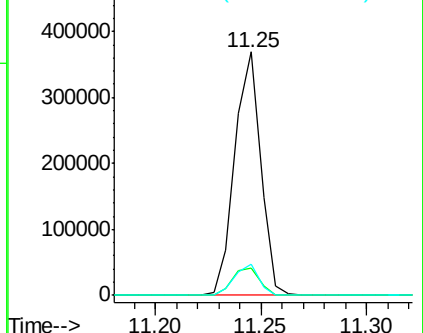
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.4  | 9.4   | 14.2  |
| 80      | 12.6  | 10.2  | 15.2  |

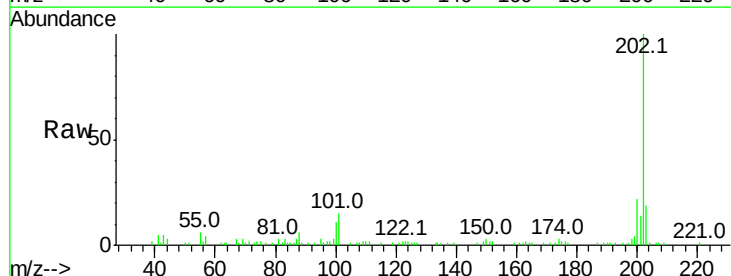


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

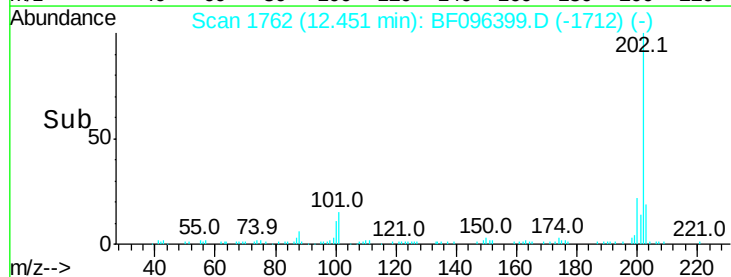
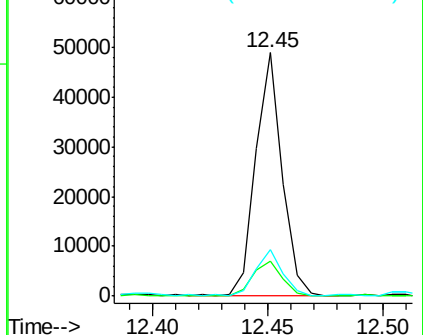


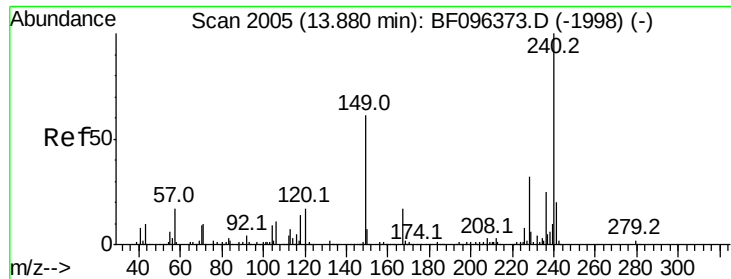
#74  
Fluoranthene  
Concen: 2.37 ng  
RT: 12.45 min Scan# 1762  
Delta R.T. -0.01 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.6  | 0.0   | 33.2  |
| 203     | 18.9  | 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: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

Instrument :

BNA\_F

ClientSampleId :

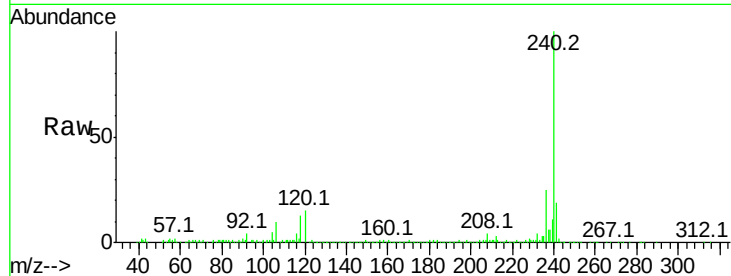
Tot Ion:240 Resp: 286864

Ion Ratio Lower Upper

240 100

120 14.6 5.8 8.8#

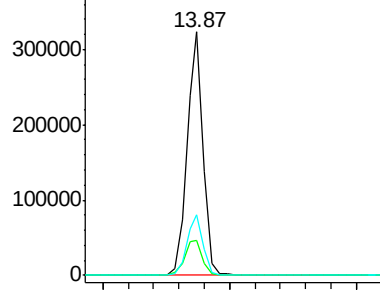
236 25.0 20.5 30.7



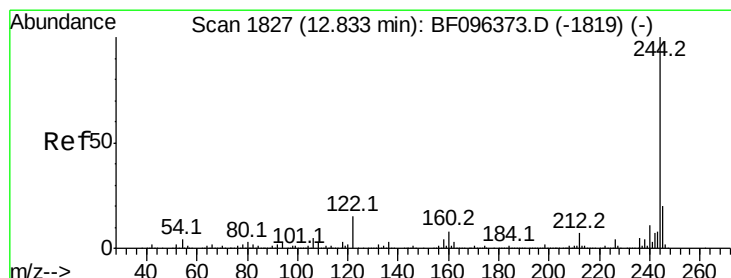
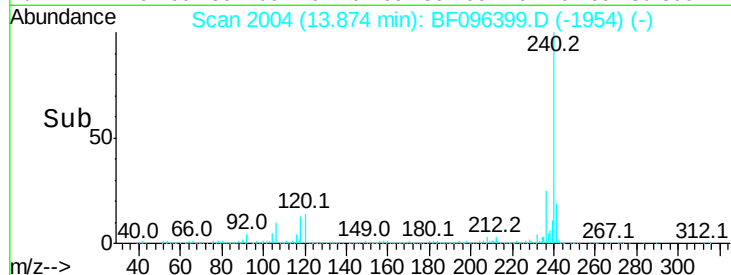
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#78

Terphenyl-d14

Concen: 25.52 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

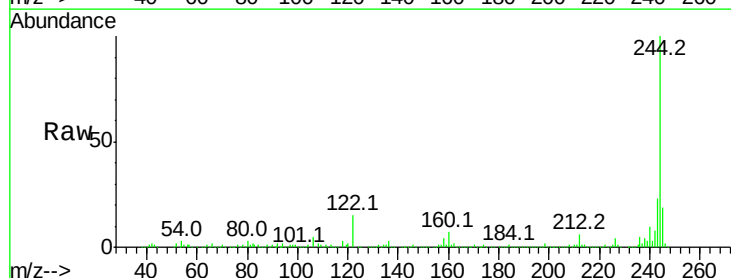
Tgt Ion:244 Resp: 342549

Ion Ratio Lower Upper

244 100

212 6.3 6.0 9.0

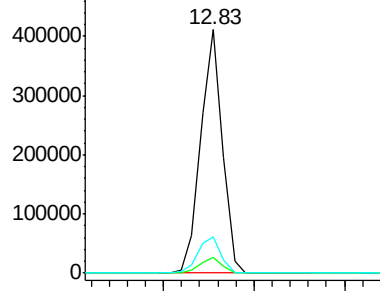
122 14.8 10.3 15.5



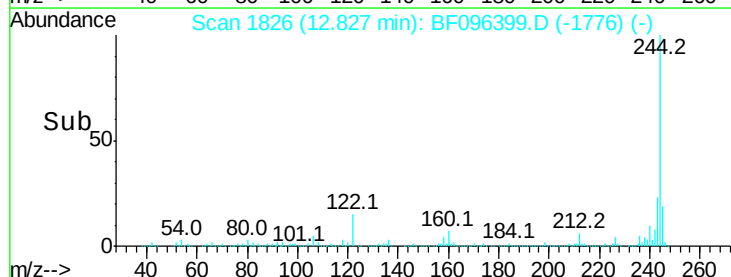
Abundance Ion 244.00 (243.70 to 244.70): E

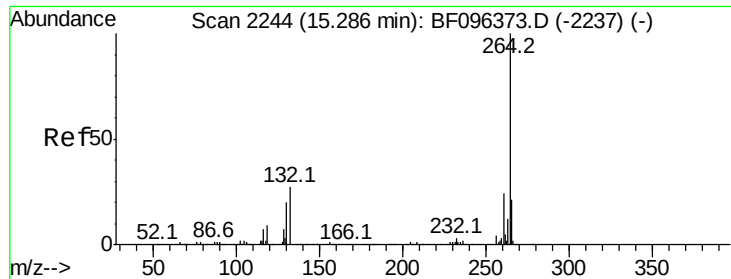
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->

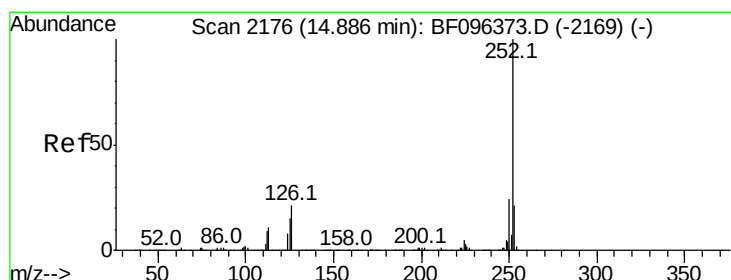
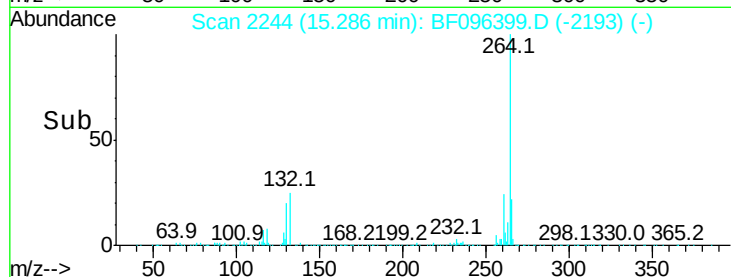
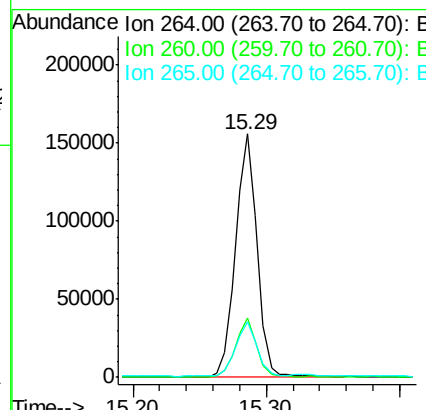
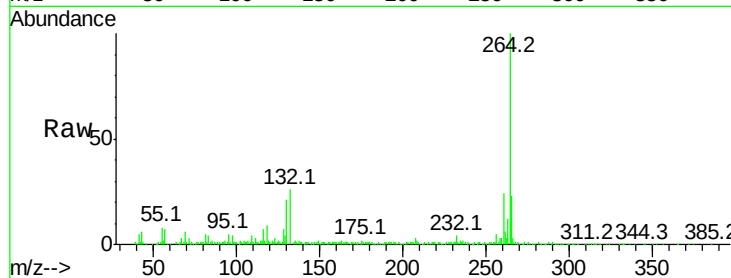




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 2244  
Delta R.T. 0.00 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

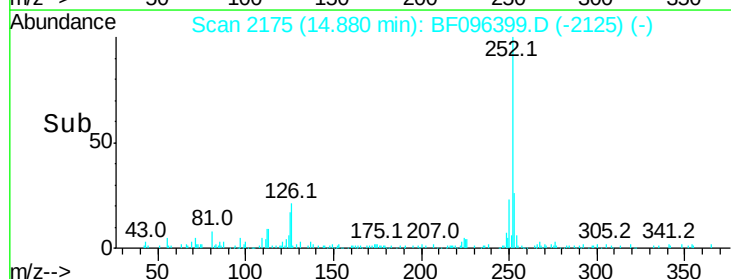
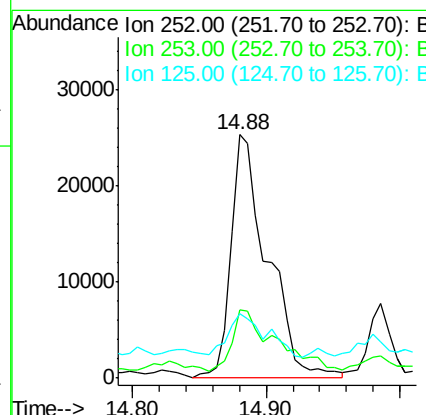
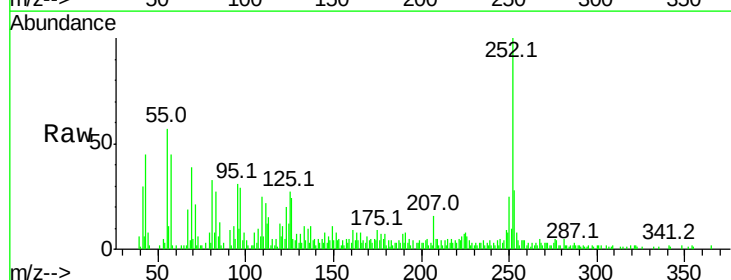
Instrument :  
BNA\_F  
ClientSampleId :

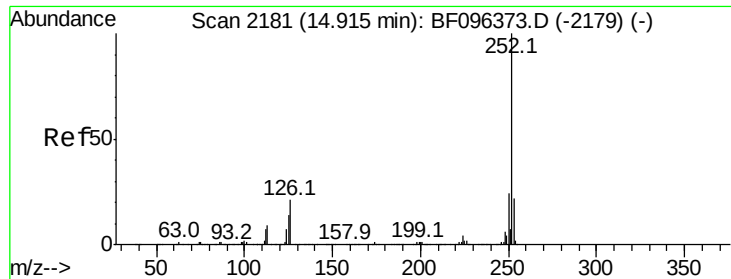
Tot Ion:264 Resp: 178176  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.5 29.3  
265 22.7 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 4.35 ng  
RT: 14.88 min Scan# 2175  
Delta R.T. -0.01 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

Tgt Ion:252 Resp: 48535  
Ion Ratio Lower Upper  
252 100  
253 27.9 18.1 27.1#  
125 26.5 9.8 14.8#

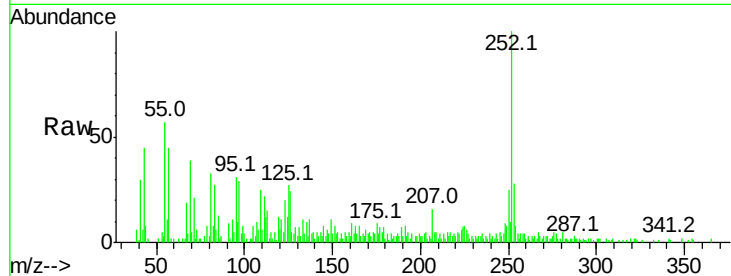




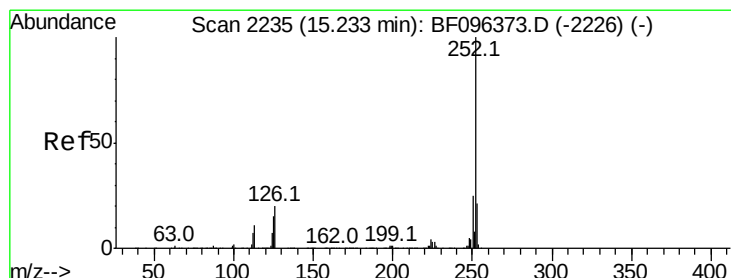
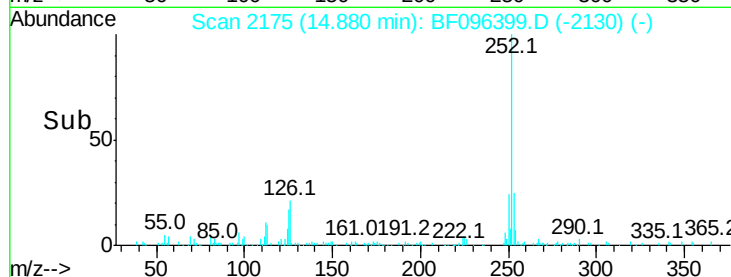
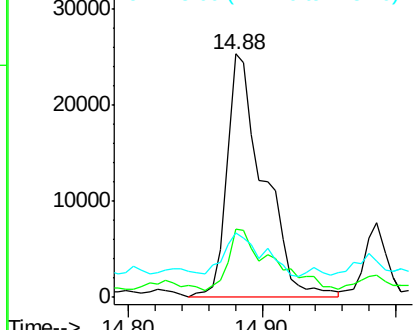
#88  
Benzo(k)fluoranthene  
Concen: 4.86 ng  
RT: 14.88 min Scan# 2175  
Delta R.T. -0.04 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 48535  
Ion Ratio Lower Upper  
252 100  
253 27.9 18.4 27.6#  
125 26.5 13.1 19.7#

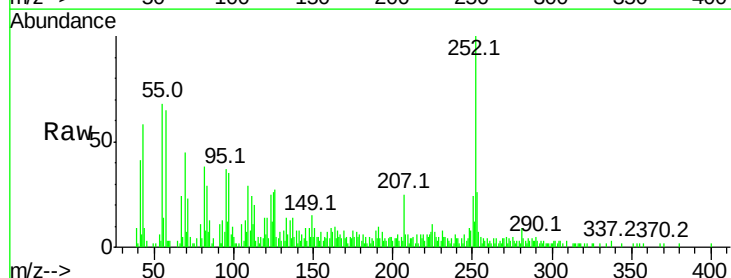


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

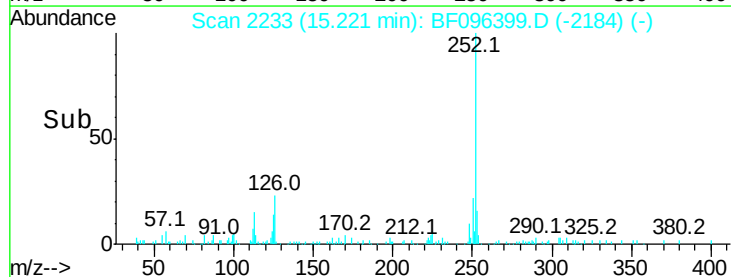
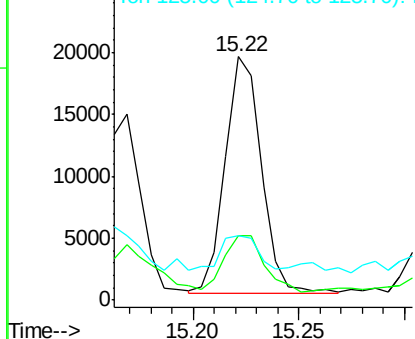


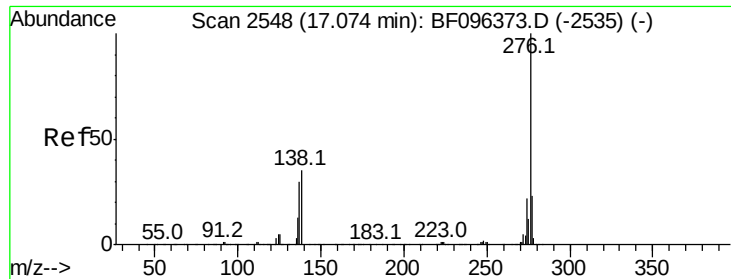
#89  
Benzo(a)pyrene  
Concen: 2.30 ng  
RT: 15.22 min Scan# 2233  
Delta R.T. -0.01 min  
Lab File: BF096399.D  
Acq: 2 Jul 2017 00:44

Tgt Ion:252 Resp: 22886  
Ion Ratio Lower Upper  
252 100  
253 26.2 17.5 26.3  
125 26.5 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





#91

Benzo(a,h,i)perylene

Concen: 2.00 ng

RT: 17.06 min Scan# 2545

Delta R.T. -0.02 min

Lab File: BF096399.D

Acq: 2 Jul 2017 00:44

Instrument :

BNA\_F

ClientSampleId :

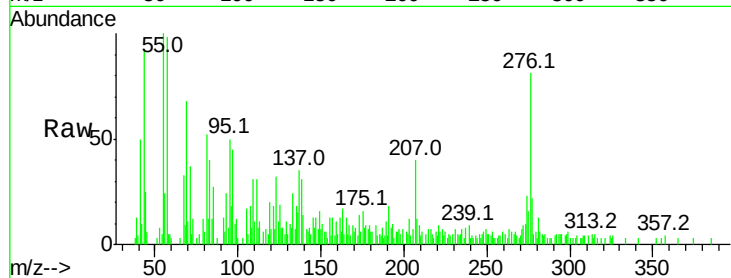
Tot Ion:276 Resp: 16259

Ion Ratio Lower Upper

276 100

277 26.6 18.6 28.0

138 38.9 25.4 38.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

