

Data Path : Z:\HPCHEM1\BNA F\Data\BF031117\  
 Data File : BF093573.D  
 Acq On : 11 Mar 2017 17:58  
 Operator : SJ/MA  
 Sample : I2215-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

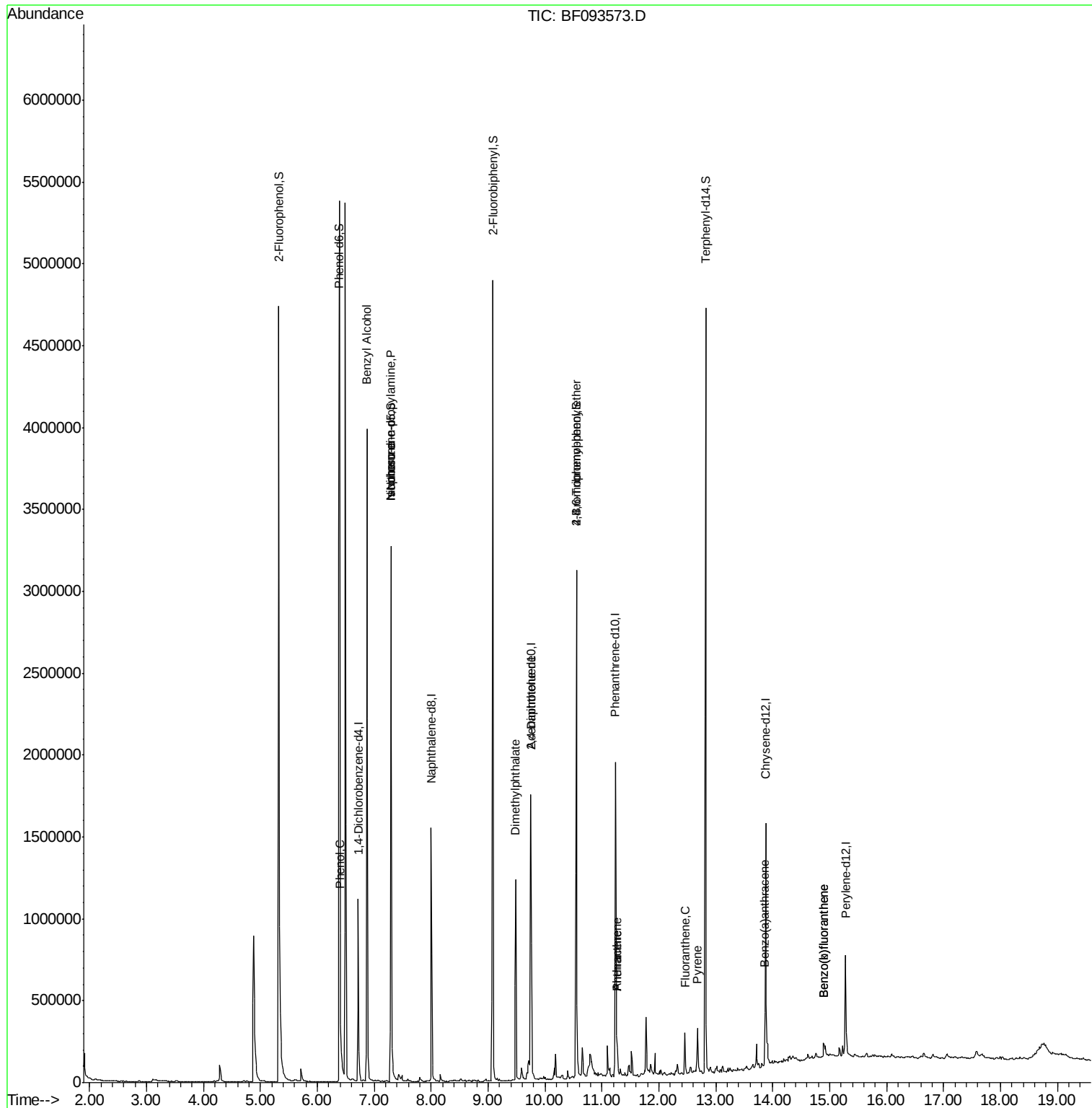
Quant Time: Mar 13 16:17:34 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 193838   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 808314   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 372213   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.24 | 188  | 679226   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.88 | 240  | 495381   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.28 | 264  | 340883   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 1873552  | 160.87 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.39  | 99   | 2325612  | 158.35 | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 1439245  | 98.79  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 358308   | 147.75 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 2145684  | 107.23 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.82 | 244  | 1550238  | 81.36  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.40  | 94   | 181103   | 10.06  | ng    | # 71     |
| 15) Benzyl Alcohol             | 6.87  | 79   | 21461    | 2.05   | ng    | # 45     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 193460   | 19.16  | ng    | # 83     |
| 25) Isophorone                 | 7.29  | 82   | 1439694  | 49.01  | ng    | # 65     |
| 49) Dimethylphthalate          | 9.49  | 163  | 578445   | 23.44  | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 48299    | 7.26   | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 27174    | 3.78   | ng    | # 1      |
| 70) Phenanthrene               | 11.26 | 178  | 112940   | 2.91   | ng    | 96       |
| 71) Anthracene                 | 11.26 | 178  | 112940   | 2.88   | ng    | 97       |
| 74) Fluoranthene               | 12.46 | 202  | 150779   | 4.03   | ng    | 94       |
| 77) Pyrene                     | 12.68 | 202  | 144986   | 4.02   | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.87 | 228  | 63876    | 2.18   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 14.89 | 252  | 67299    | 3.24   | ng    | # 92     |
| 88) Benzo(k)fluoranthene       | 14.89 | 252  | 67299    | 3.36   | ng    | # 92     |

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

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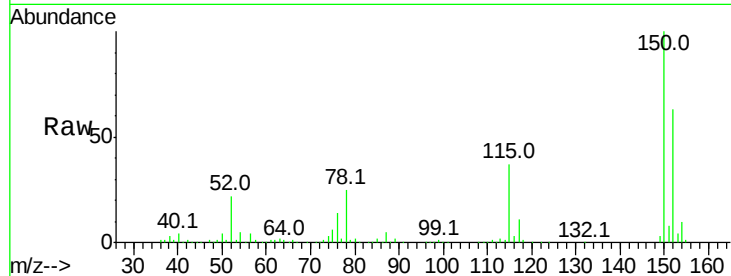


#1

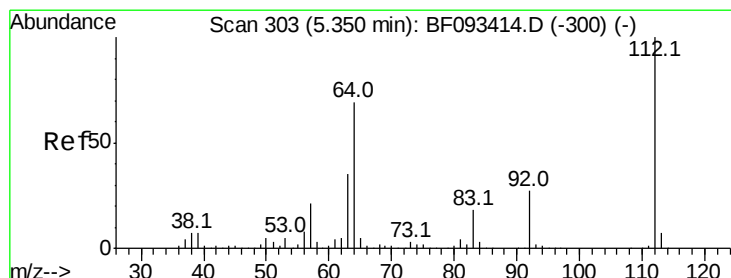
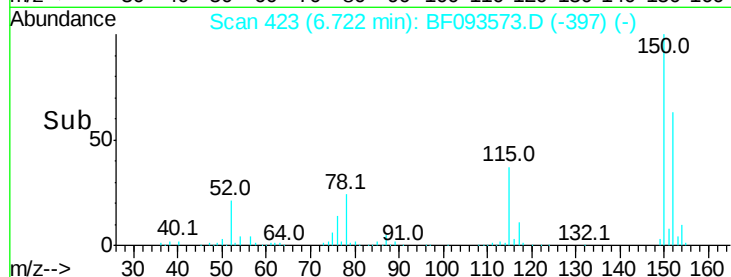
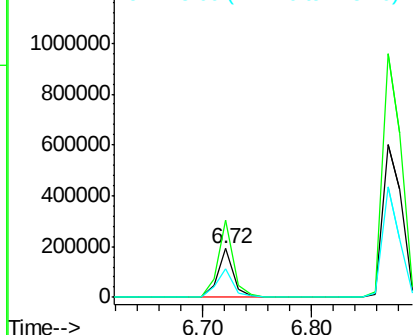
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.72 min Scan# 423  
Delta R.T. -0.00 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 193838  
Ion Ratio Lower Upper  
152 100  
150 158.4 124.9 187.3  
115 58.1 46.0 69.0



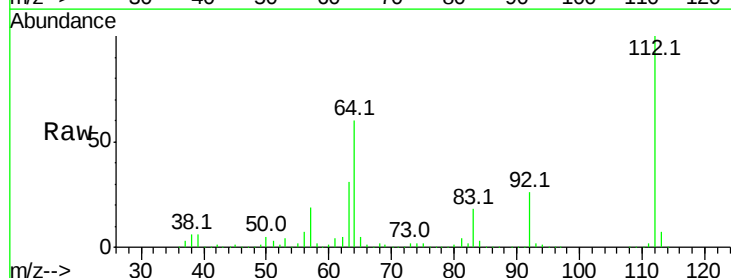
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



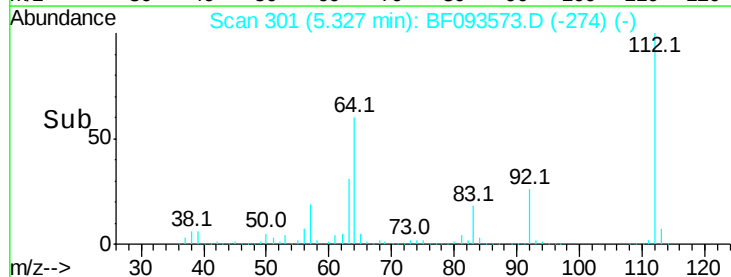
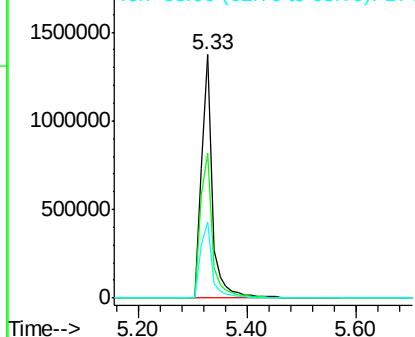
#5

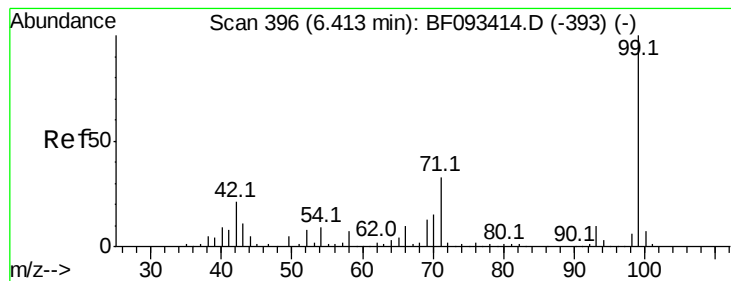
2-Fluorophenol  
Concen: 160.87 ng  
RT: 5.33 min Scan# 301  
Delta R.T. 0.01 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Tgt Ion:112 Resp: 1873552  
Ion Ratio Lower Upper  
112 100  
64 59.6 46.1 69.1  
63 30.9 23.8 35.6



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: 158.35 ng

RT: 6.39 min Scan# 394

Delta R.T. 0.01 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

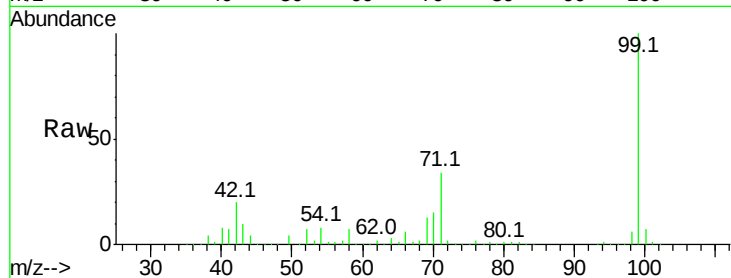
Instrument :

BNA\_F

ClientSampled :

Tot Ion: 99 Resp: 2325612

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.9  | 15.6  | 23.4  |
| 71  | 34.2  | 27.5  | 41.3  |

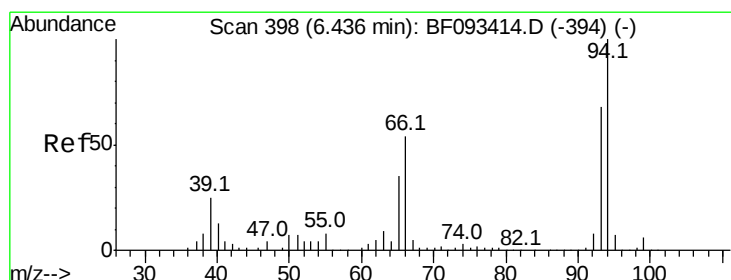
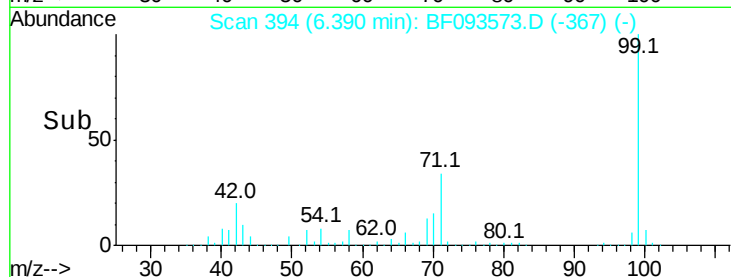
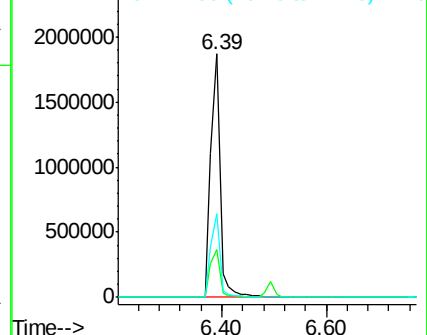


Abundance

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: 10.06 ng

RT: 6.40 min Scan# 395

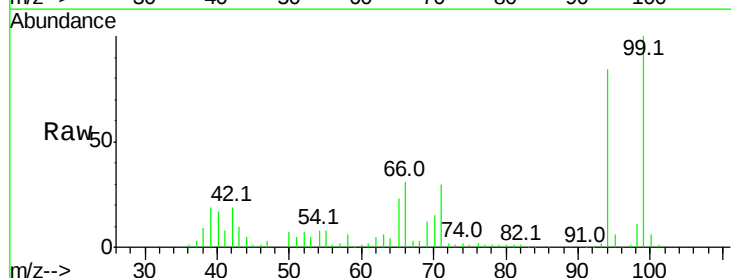
Delta R.T. -0.00 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

Tgt Ion: 94 Resp: 181103

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 27.9  | 21.4  | 61.4  |
| 66  | 37.6  | 44.0  | 84.0# |

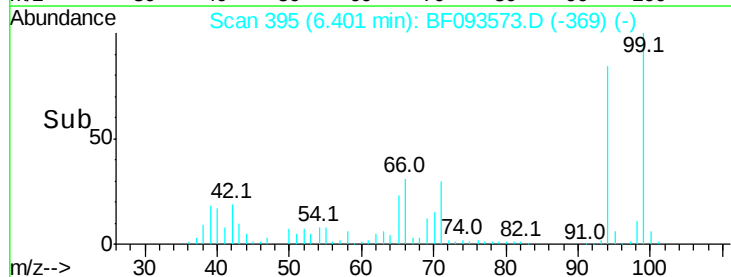
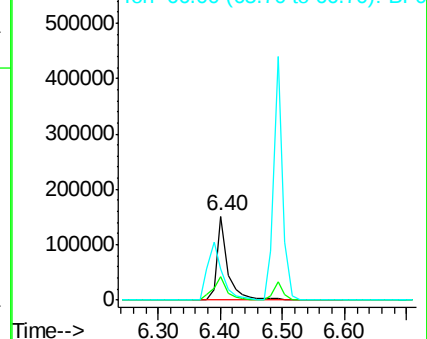


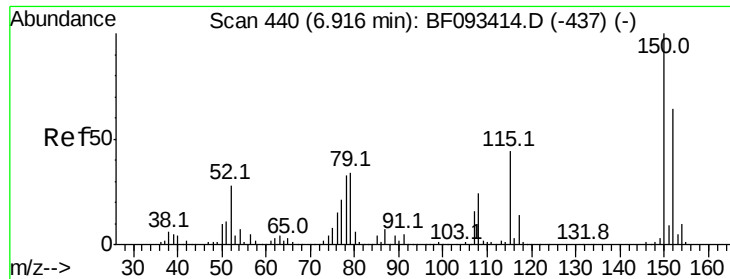
Abundance

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

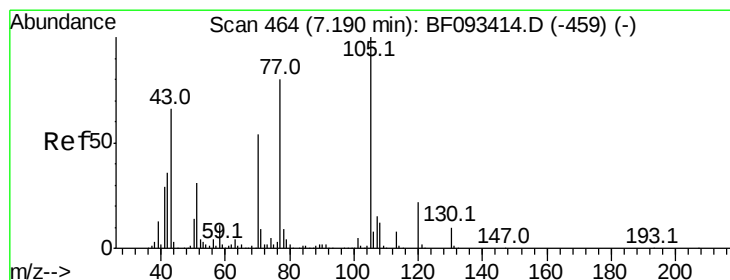
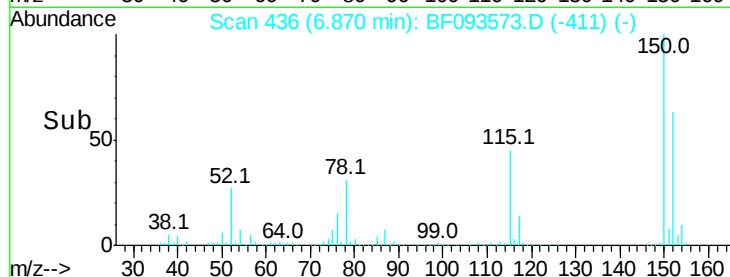
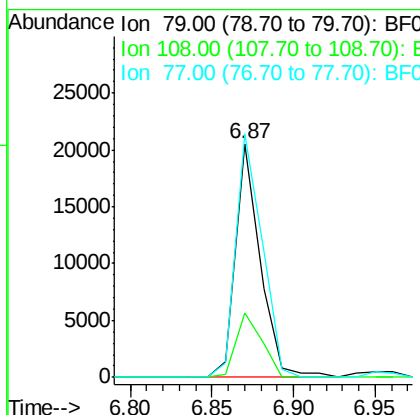
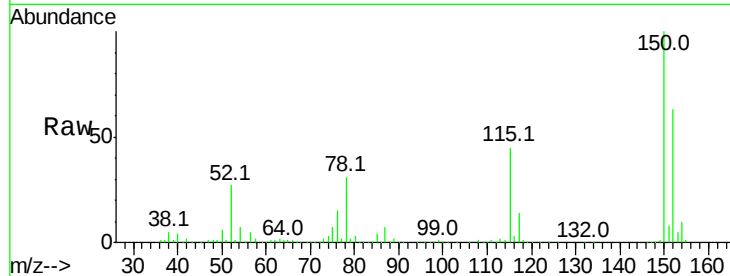




#15  
Benzyl Alcohol  
Concen: 2.05 ng  
RT: 6.87 min Scan# 436  
Delta R.T. -0.01 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

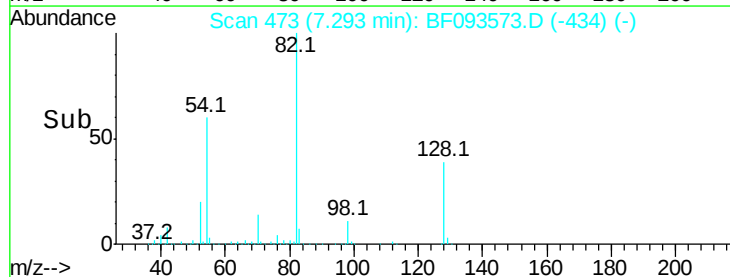
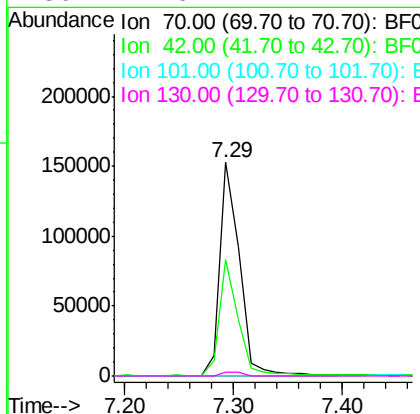
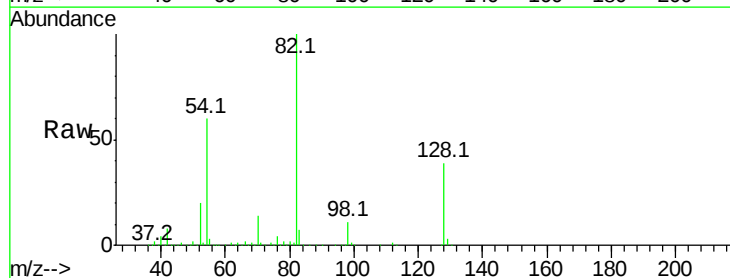
Instrument :  
BNA\_F  
ClientSampled :

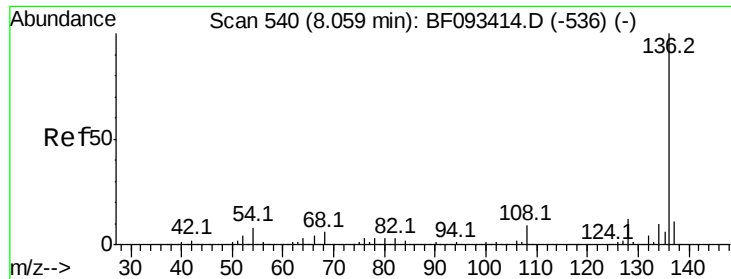
Tot Ion: 79 Resp: 21461  
Ion Ratio Lower Upper  
79 100  
108 27.6 61.4 92.0#  
77 104.1 50.9 76.3#



#19  
n-Nitroso-di-n-propylamine  
Concen: 19.16 ng  
RT: 7.29 min Scan# 473  
Delta R.T. 0.15 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Tgt Ion: 70 Resp: 193460  
Ion Ratio Lower Upper  
70 100  
42 54.5 49.4 74.0  
101 0.0 7.4 11.2#  
130 1.6 14.2 21.4#

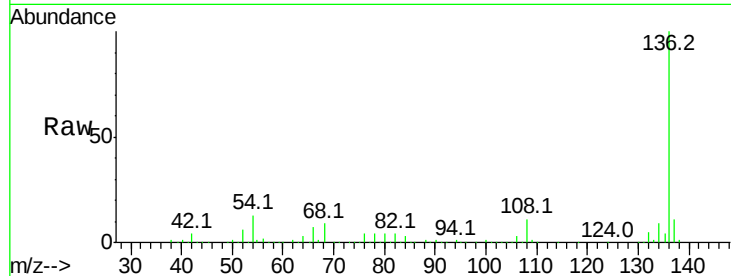




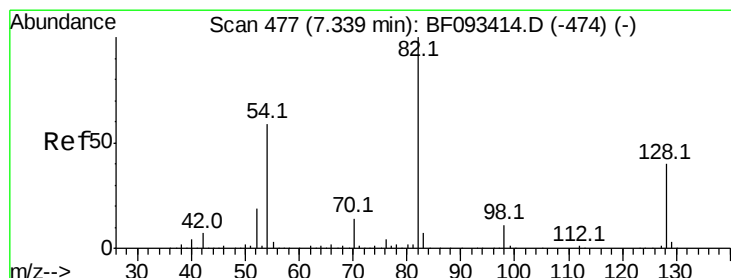
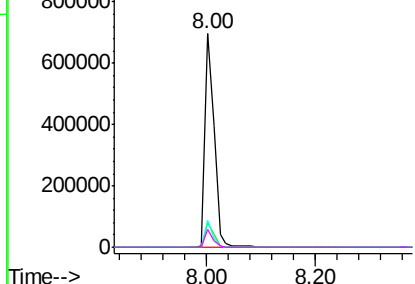
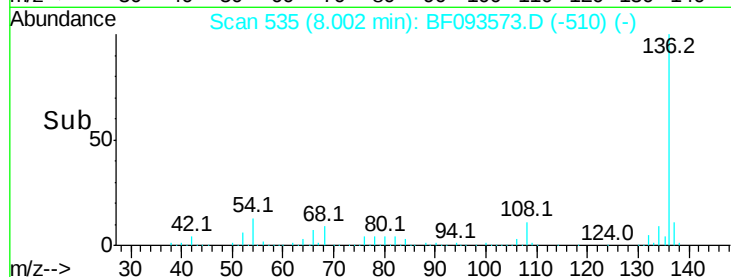
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 808314   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.4  | 8.4 12.6 |
| 54          | 12.7  | 4.5 6.7# |
| 68          | 8.6   | 3.6 5.4# |

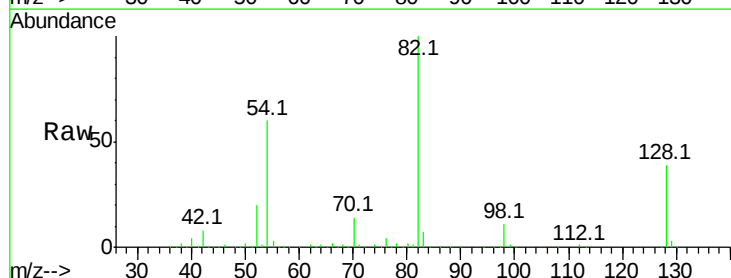


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

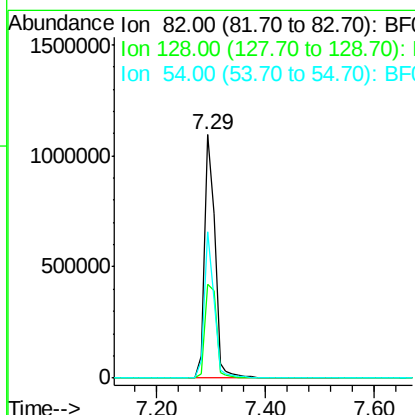
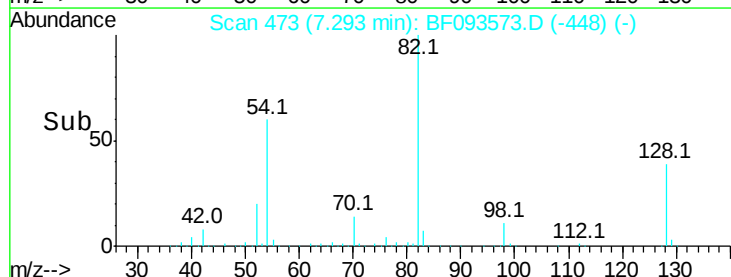


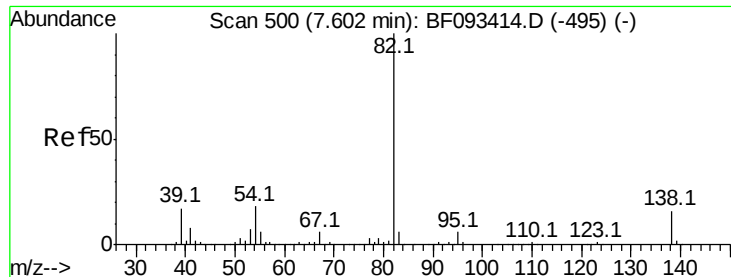
#23  
Nitrobenzene-d5  
Concen: 98.79 ng  
RT: 7.29 min Scan# 473  
Delta R.T. -0.01 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 1439245    |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 38.6  | 34.6 52.0  |
| 54          | 60.0  | 39.5 59.3# |



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

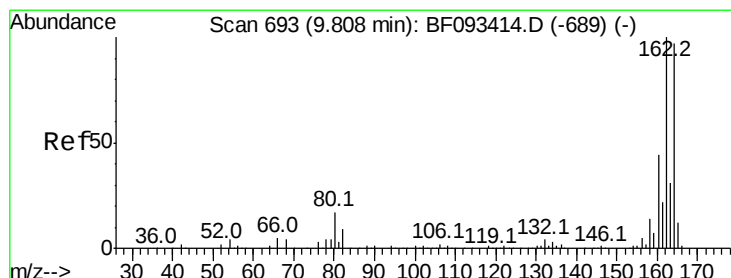
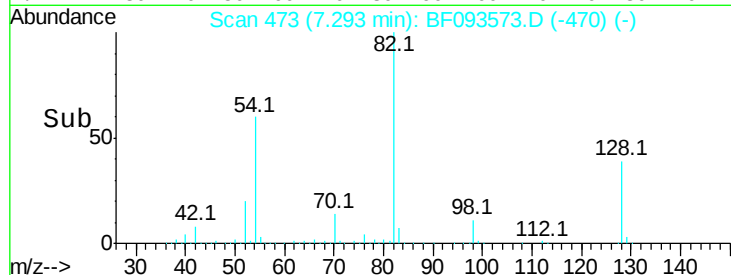
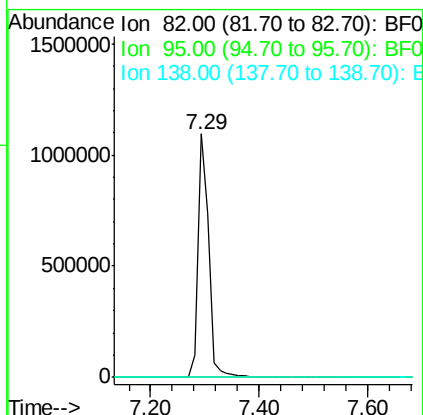
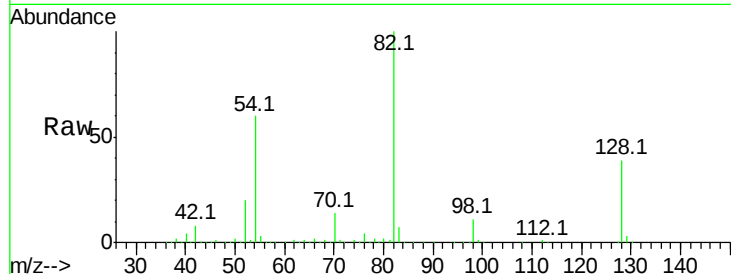




#25  
Isophorone  
Concen: 49.01 ng  
RT: 7.29 min Scan# 473  
Delta R.T. -0.26 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

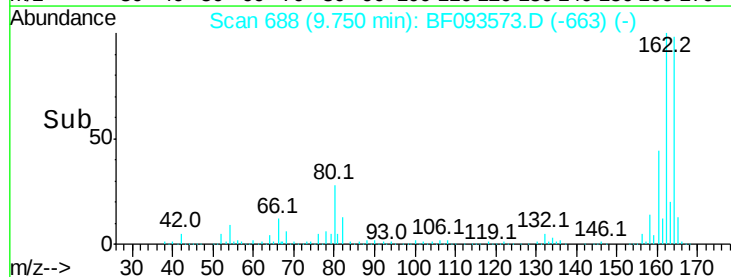
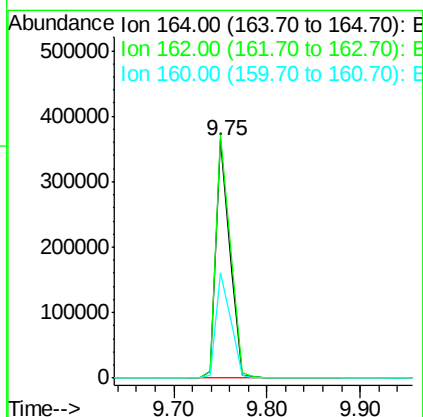
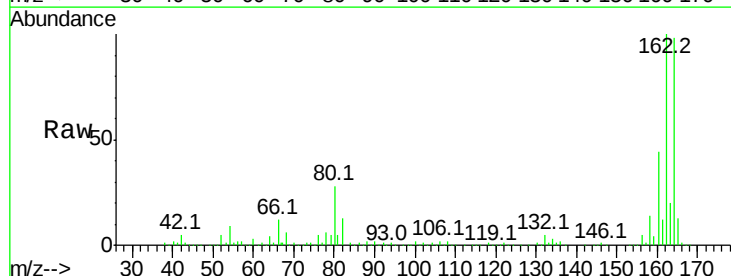
Instrument :  
BNA\_F  
ClientSampled :

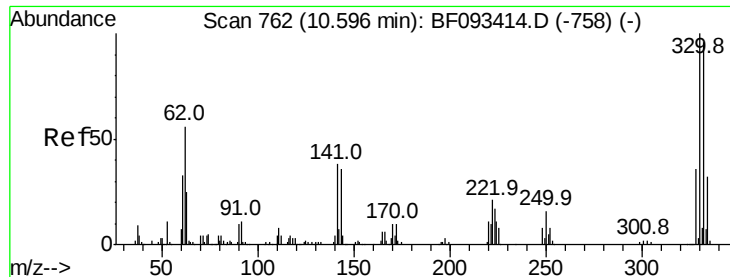
Tot Ion: 82 Resp: 1439694  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.6 8.4#  
138 0.0 14.6 22.0#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.75 min Scan# 688  
Delta R.T. -0.01 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Tgt Ion:164 Resp: 372213  
Ion Ratio Lower Upper  
164 100  
162 102.3 80.2 120.2  
160 44.5 36.9 55.3

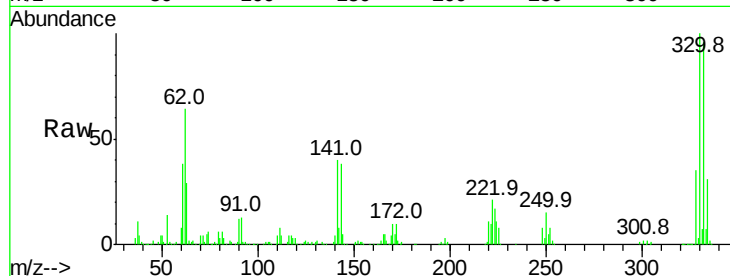




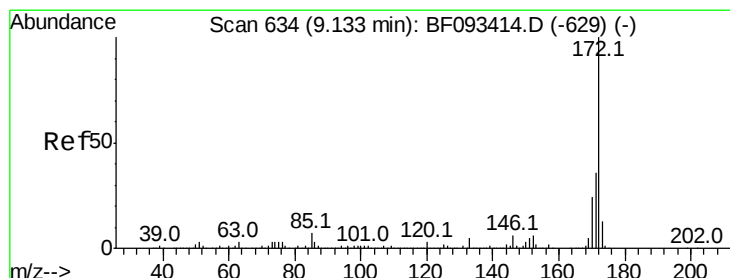
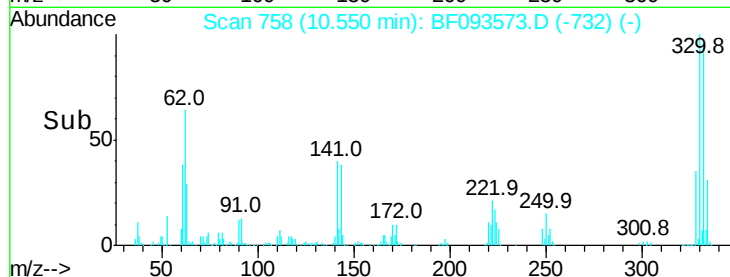
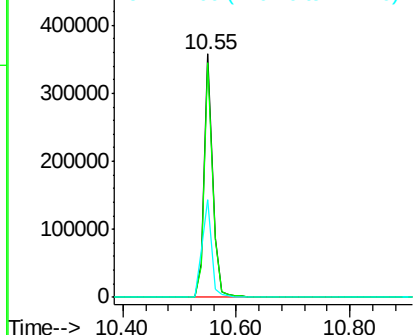
#41  
 2,4,6-Tribromophenol  
 Concen: 147.75 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.00 min  
 Lab File: BF093573.D  
 Acq: 11 Mar 2017 17:58

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 358308  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 77.4 116.2  
 141 44.8 34.1 51.1

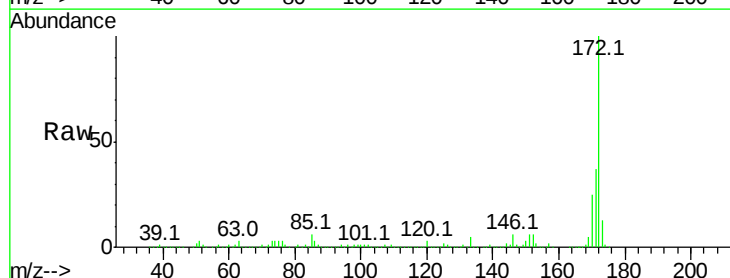


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

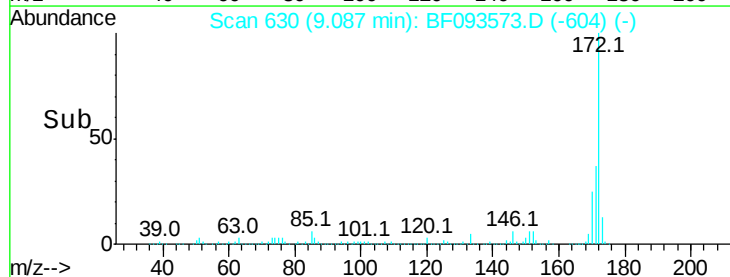
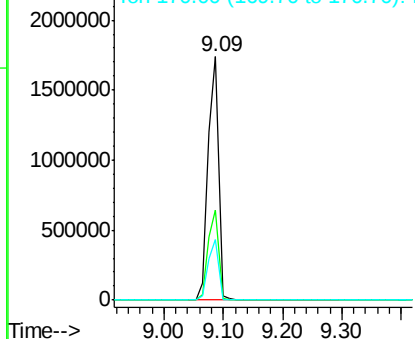


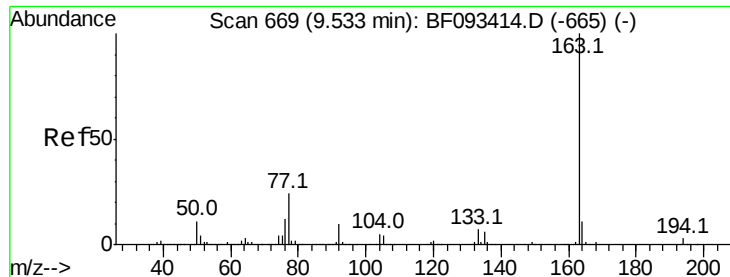
#44  
 2-Fluorobiphenyl  
 Concen: 107.23 ng  
 RT: 9.09 min Scan# 630  
 Delta R.T. -0.00 min  
 Lab File: BF093573.D  
 Acq: 11 Mar 2017 17:58

Tgt Ion:172 Resp: 2145684  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 29.4 44.0  
 170 25.1 20.2 30.4



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





#49

Dimethylphthalate

Concen: 23.44 ng

RT: 9.49 min Scan# 665

Delta R.T. -0.01 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

Instrument :

BNA\_F

ClientSampleId :

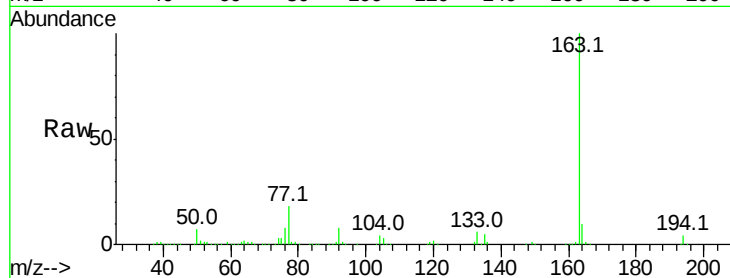
Tot Ion:163 Resp: 578445

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.4

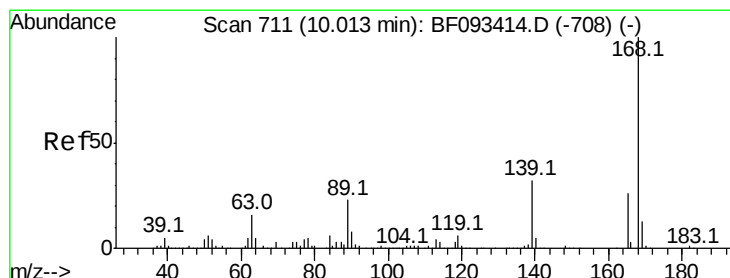
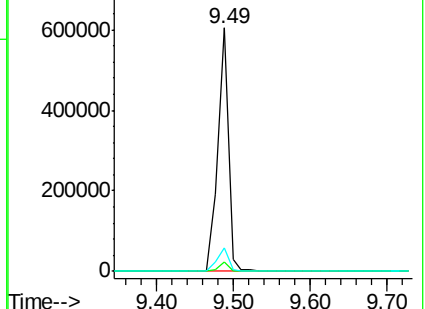
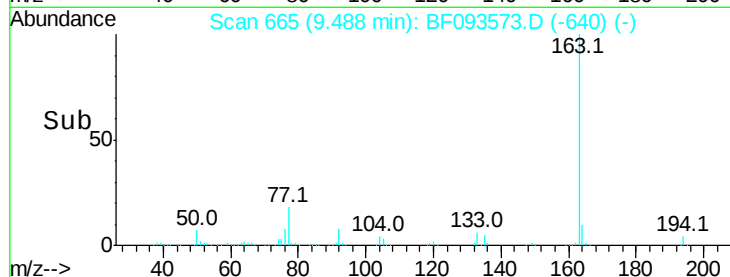
164 9.8 8.0 12.0



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: 7.26 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.23 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

Tgt Ion:165 Resp: 48299

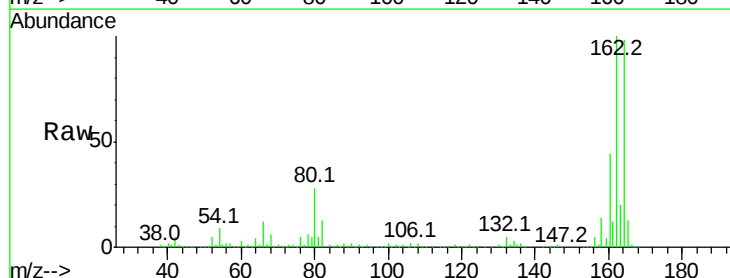
Ion Ratio Lower Upper

165 100

63 1.7 40.2 60.4#

89 2.0 62.5 93.7#

182 0.0 1.8 2.8#

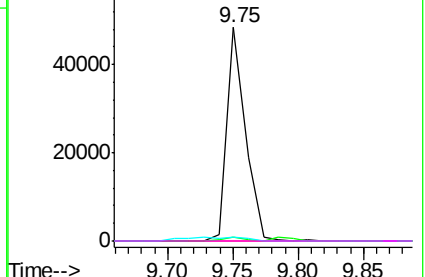
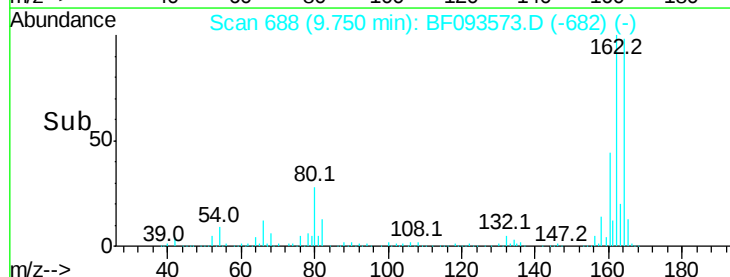


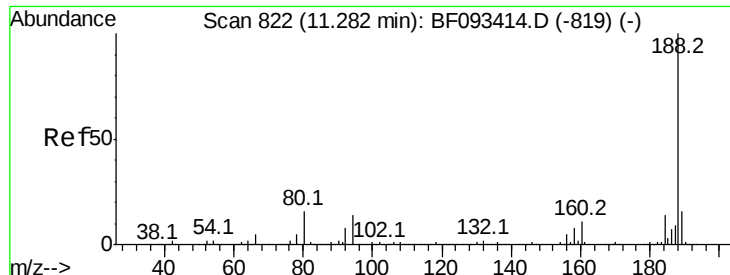
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

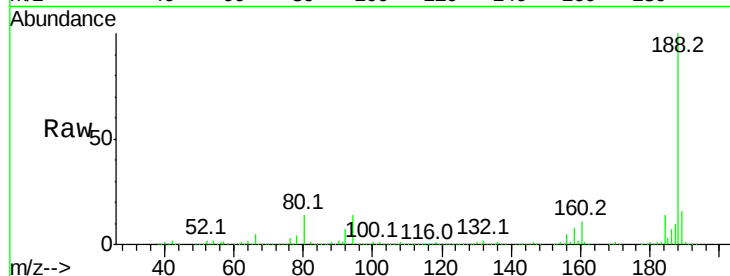




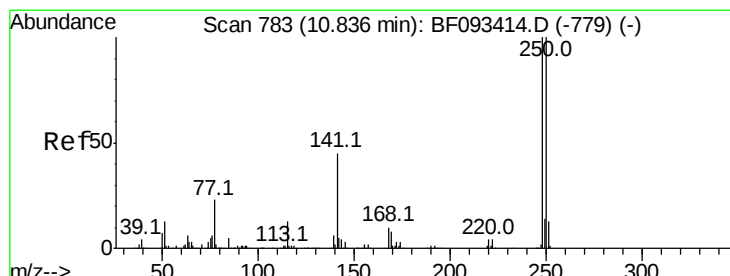
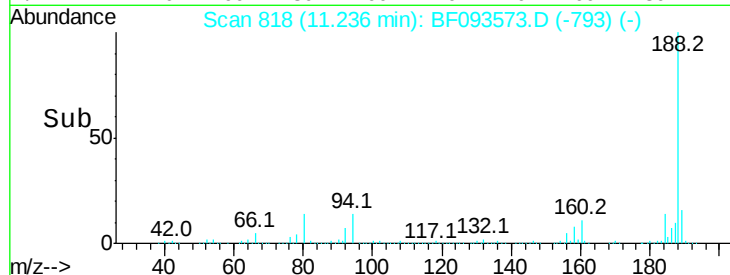
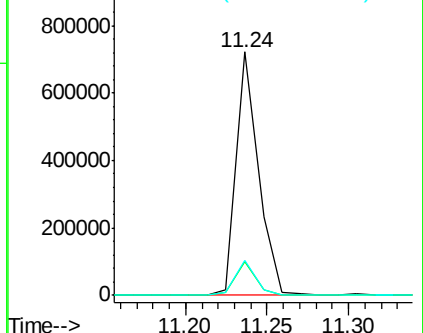
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.24 min Scan# 818  
 Delta R.T. -0.01 min  
 Lab File: BF093573.D  
 Acq: 11 Mar 2017 17:58

Instrument :  
 BNA\_F  
 ClientSampleID :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 13.6  | 10.0  | 15.0  |
| 80      | 14.2  | 11.2  | 16.8  |

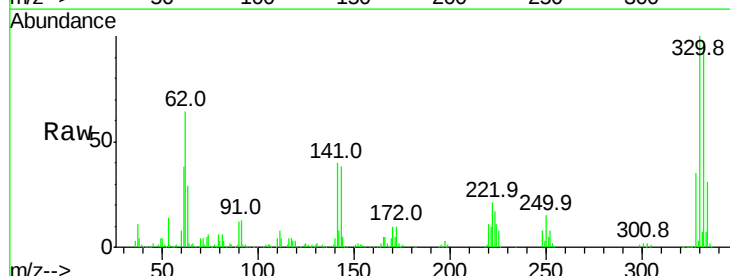


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

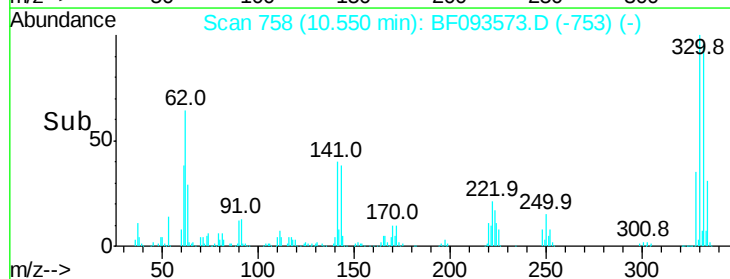
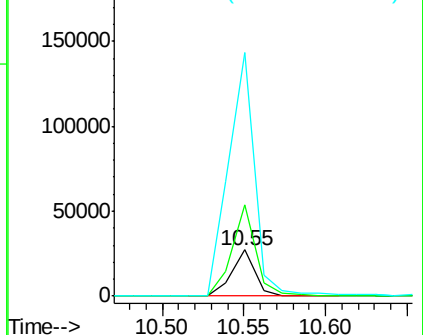


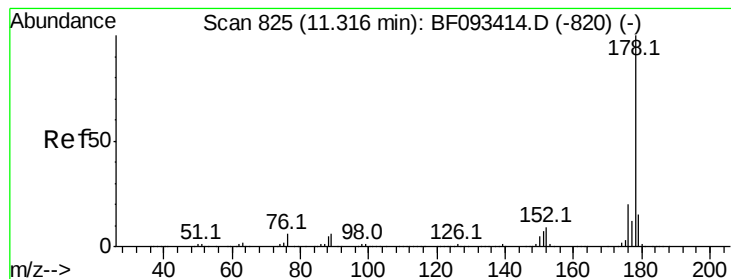
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.78 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.24 min  
 Lab File: BF093573.D  
 Acq: 11 Mar 2017 17:58

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 197.0 | 76.9  | 115.3# |
| 141     | 525.4 | 68.2  | 102.4# |



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 2.91 ng

RT: 11.26 min Scan# 820

Delta R.T. -0.01 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

Instrument :

BNA\_F

ClientSampled :

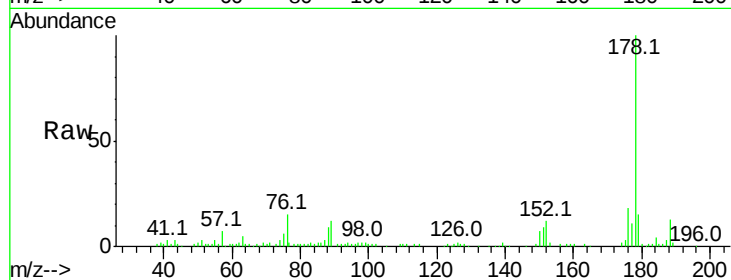
Tot Ion:178 Resp: 112940

Ion Ratio Lower Upper

178 100

176 18.1 16.6 25.0

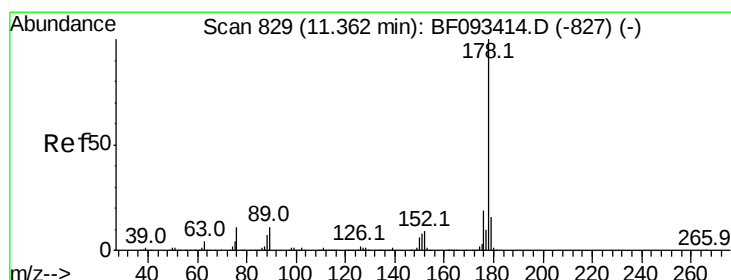
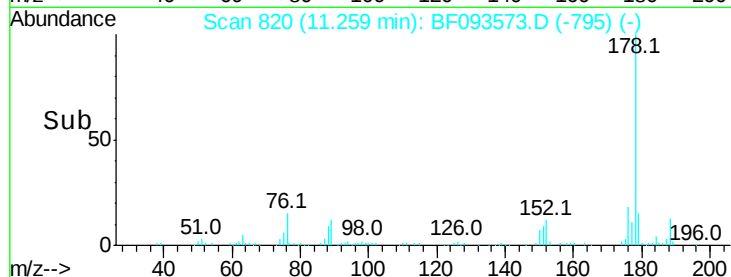
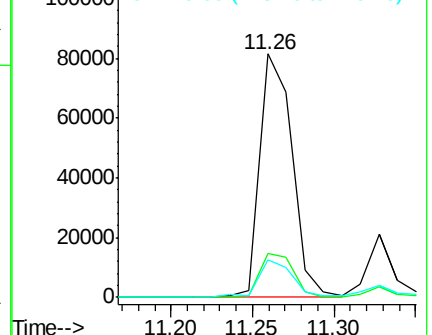
179 15.4 12.8 19.2



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



#71

Anthracene

Concen: 2.88 ng

RT: 11.26 min Scan# 820

Delta R.T. -0.06 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

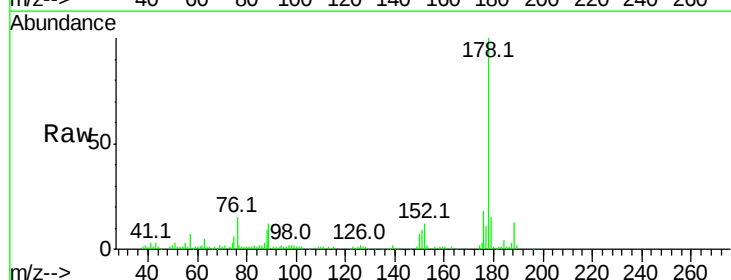
Tgt Ion:178 Resp: 112940

Ion Ratio Lower Upper

178 100

176 18.1 15.9 23.9

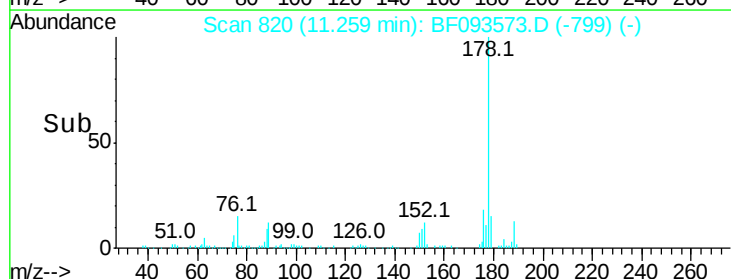
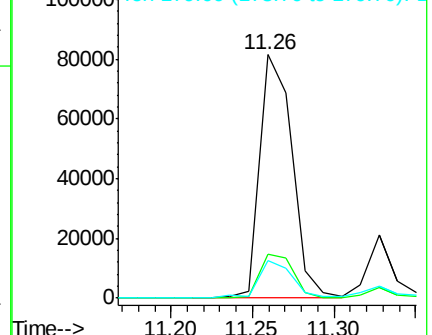
179 15.4 13.2 19.8

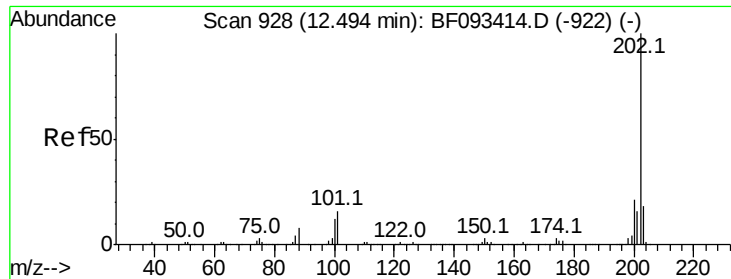


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 4.03 ng

RT: 12.46 min Scan# 925

Delta R.T. -0.00 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

Instrument :

BNA\_F

ClientSampled :

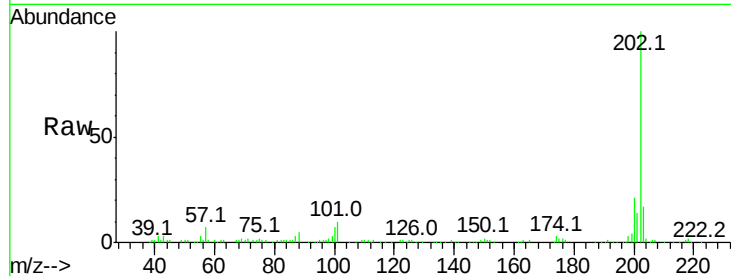
Tot Ion:202 Resp: 150779

Ion Ratio Lower Upper

202 100

101 10.2 0.0 34.6

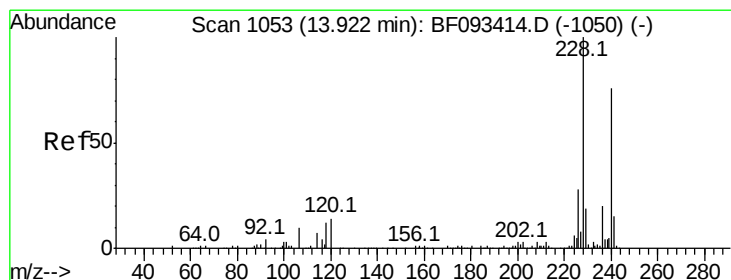
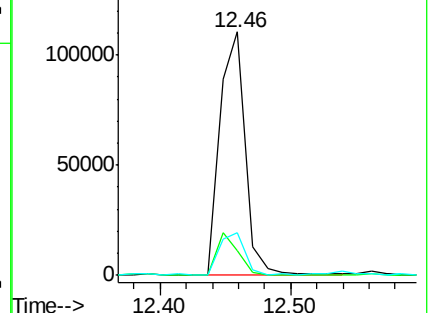
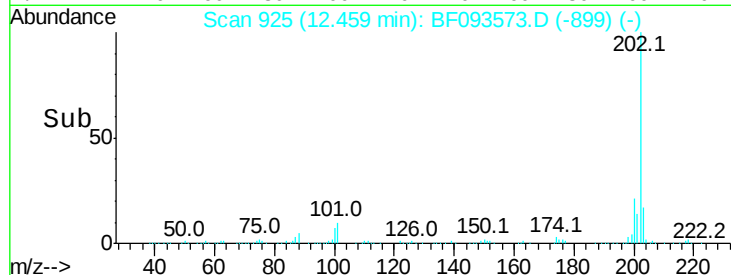
203 17.4 0.0 38.7



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: 13.88 min Scan# 1049

Delta R.T. -0.01 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

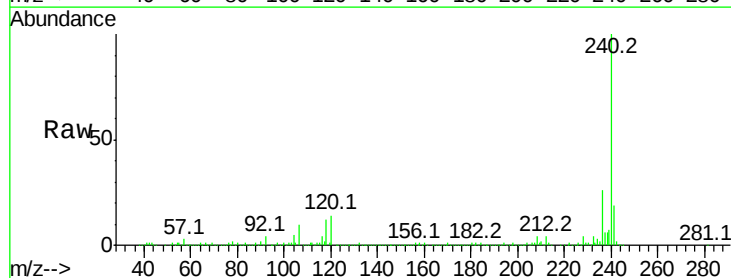
Tgt Ion:240 Resp: 495381

Ion Ratio Lower Upper

240 100

120 14.3 12.9 19.3

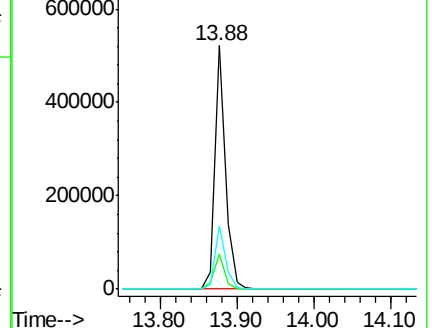
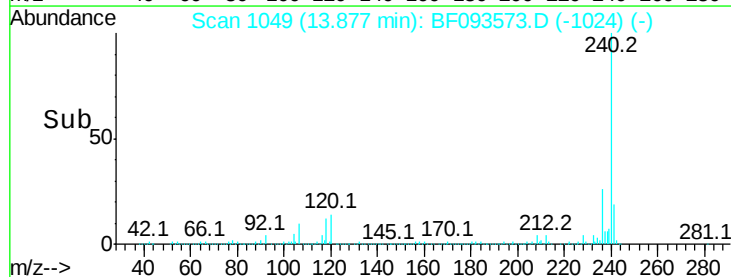
236 26.1 20.9 31.3

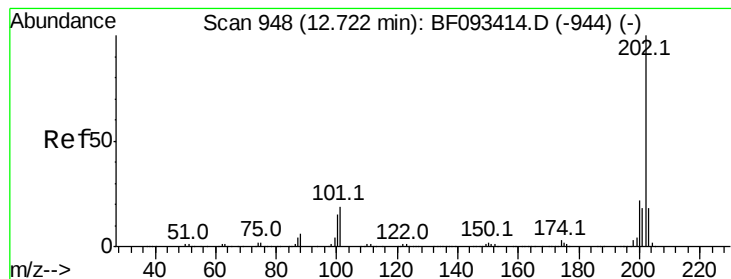


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 4.02 ng

RT: 12.68 min Scan# 944

Delta R.T. -0.00 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

Instrument :

BNA\_F

ClientSampleId :

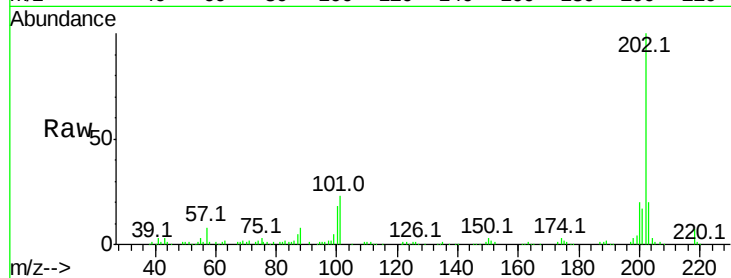
Tot Ion:202 Resp: 144986

Ion Ratio Lower Upper

202 100

200 20.4 17.7 26.5

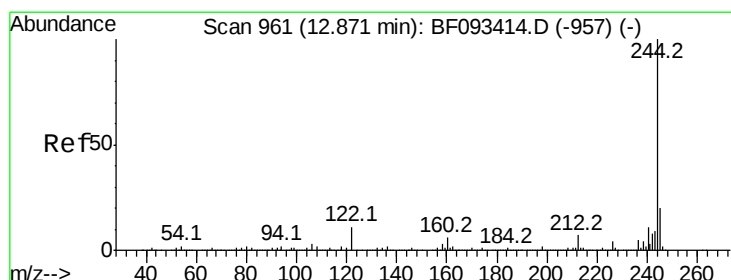
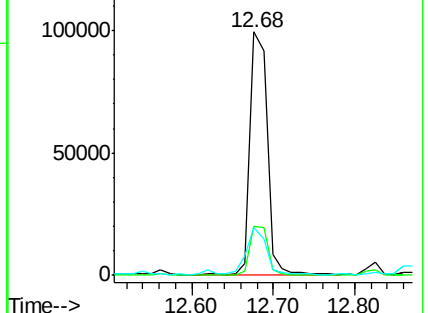
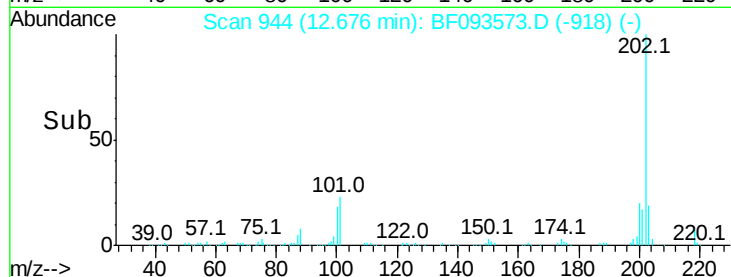
203 19.8 14.7 22.1



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: 81.36 ng

RT: 12.82 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF093573.D

Acq: 11 Mar 2017 17:58

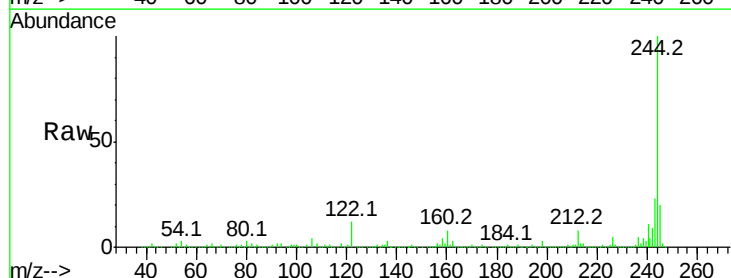
Tgt Ion:244 Resp: 1550238

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

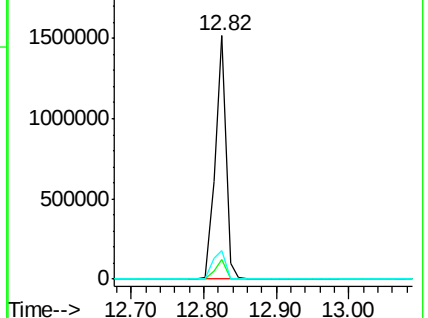
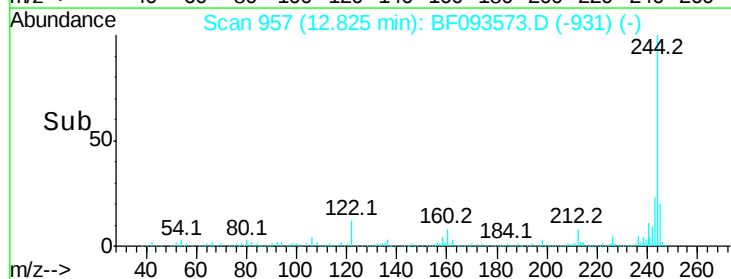
122 11.9 11.4 17.2

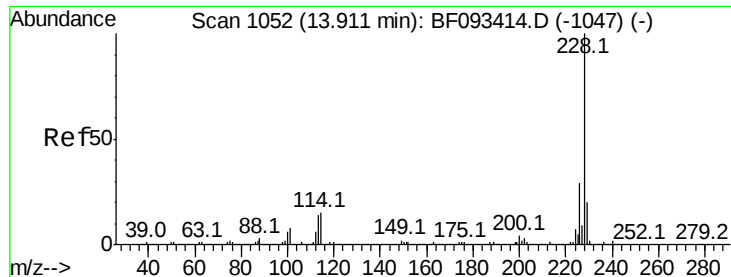


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

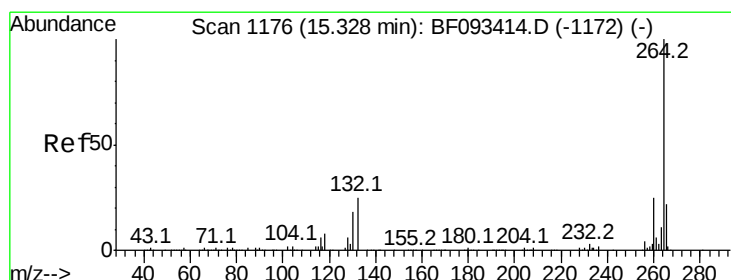
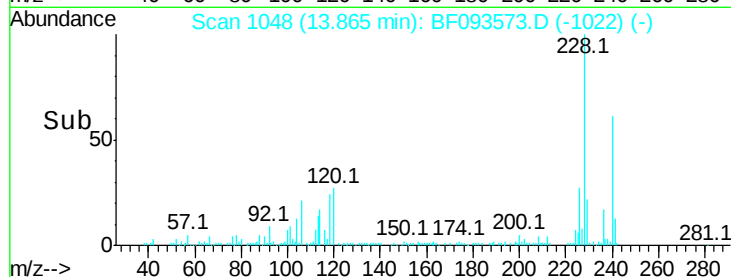
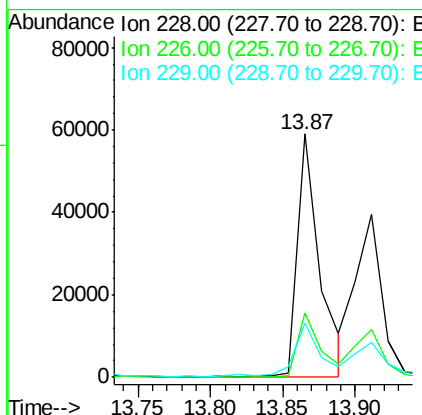
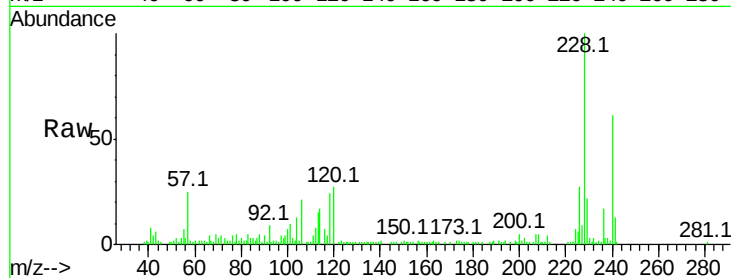




#80  
Benzo(a)anthracene  
Concen: 2.18 ng  
RT: 13.87 min Scan# 1048  
Delta R.T. -0.00 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

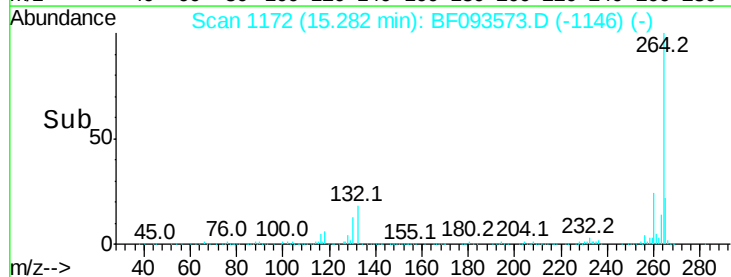
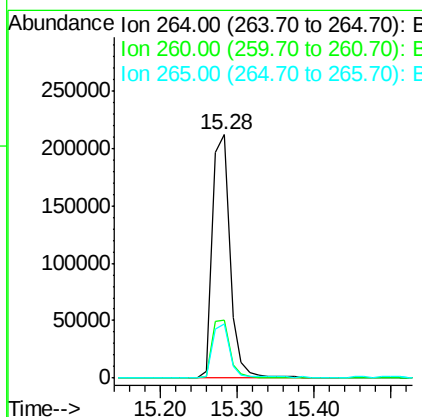
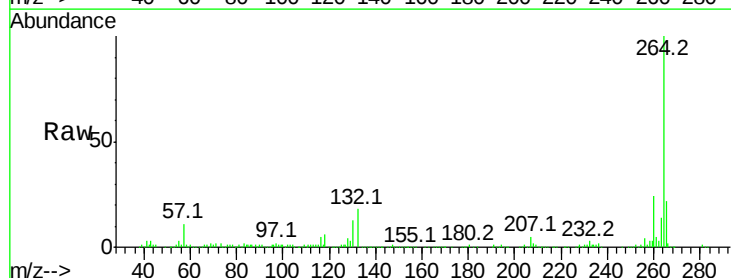
Instrument :  
BNA\_F  
ClientSampleId :

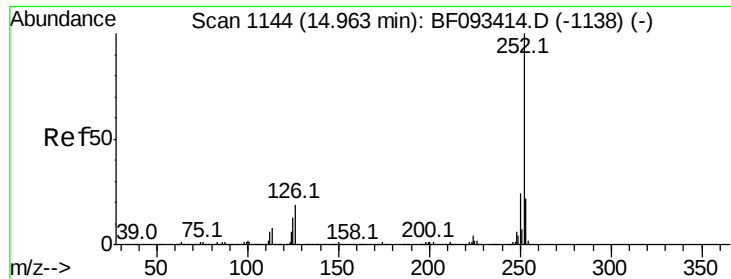
Tot Ion:228 Resp: 63876  
Ion Ratio Lower Upper  
228 100  
226 26.6 22.4 33.6  
229 22.4 16.2 24.4



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.28 min Scan# 1172  
Delta R.T. -0.00 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Tgt Ion:264 Resp: 340883  
Ion Ratio Lower Upper  
264 100  
260 23.9 19.2 28.8  
265 22.3 17.4 26.0

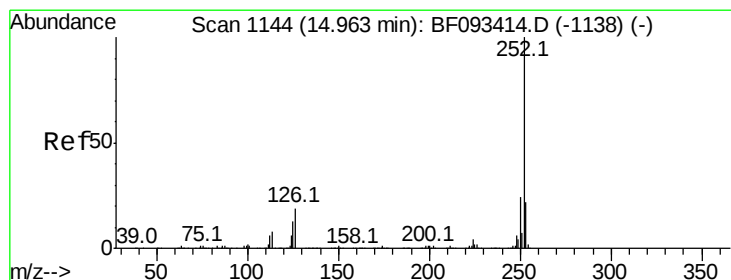
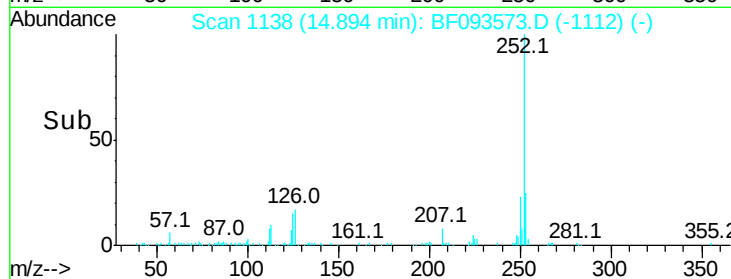
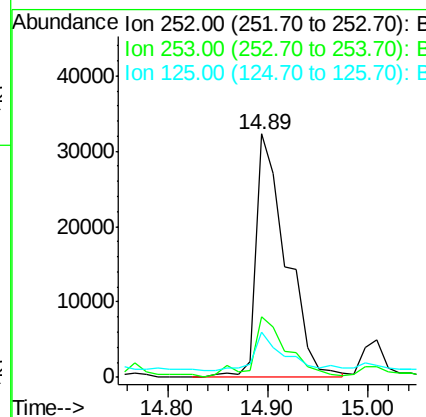
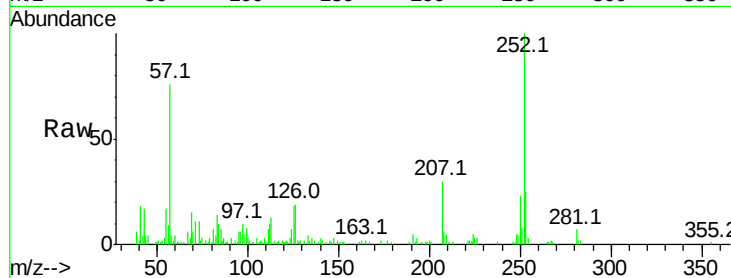




#87  
Benzo(b)fluoranthene  
Concen: 3.24 ng  
RT: 14.89 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 67299  
Ion Ratio Lower Upper  
252 100  
253 24.6 18.2 27.4  
125 18.4 9.8 14.6#



#88  
Benzo(k)fluoranthene  
Concen: 3.36 ng  
RT: 14.89 min Scan# 1138  
Delta R.T. -0.02 min  
Lab File: BF093573.D  
Acq: 11 Mar 2017 17:58

Tgt Ion:252 Resp: 67299  
Ion Ratio Lower Upper  
252 100  
253 24.6 18.5 27.7  
125 18.4 8.9 13.3#

