

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097185.D  
 Acq On : 29 Jul 2017 6:20  
 Operator : SJ/JU  
 Sample : I4472-03  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-072617

Quant Time: Jul 29 07:05:11 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 112075   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.77  | 136  | 408560   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.52  | 164  | 155623   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 10.99 | 188  | 220558   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 13.61 | 240  | 210688   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 14.96 | 264  | 135404   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.10  | 112  | 814111   | 109.50 | ng    | 0.00     |
| 7) Phenol-d6                | 6.15  | 99   | 868872   | 102.37 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 549250   | 78.87  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330  | 128008   | 104.11 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.85  | 172  | 856411   | 93.39  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.57 | 244  | 602206   | 58.28  | ng    | -0.01    |

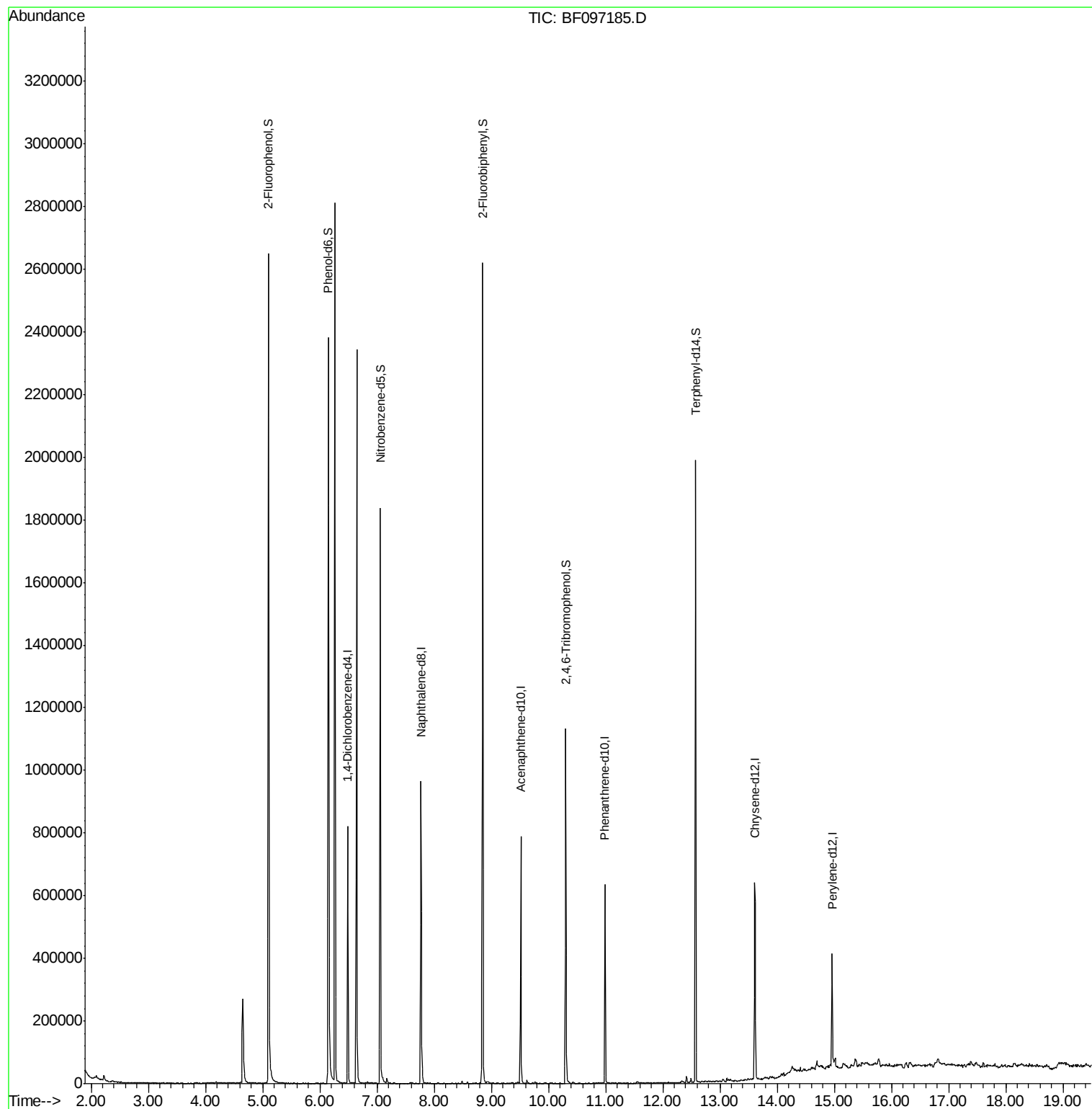
Target Compounds Qvalue

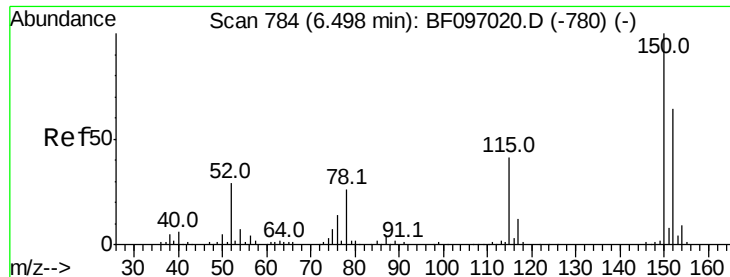
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration



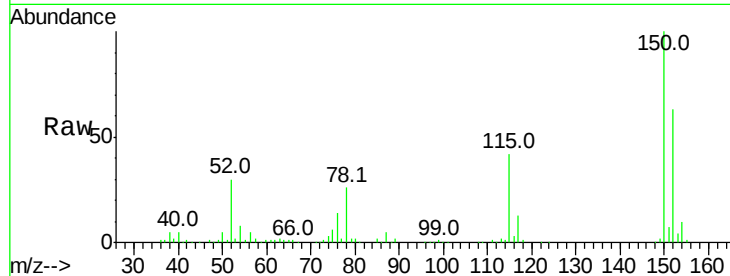


#1

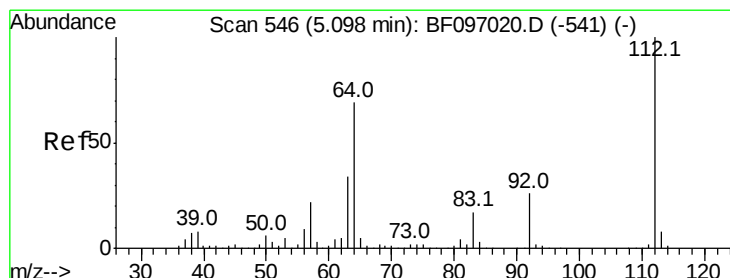
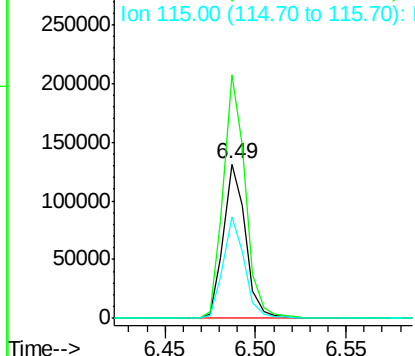
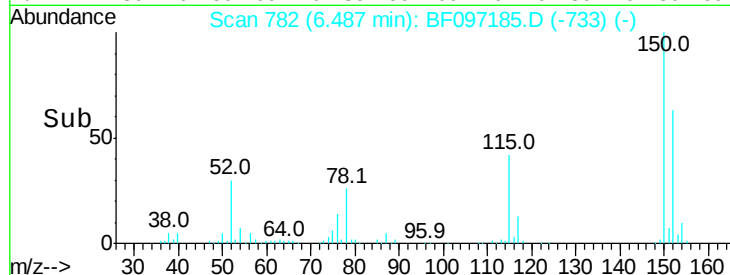
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.49 min Scan# 782  
 Delta R.T. -0.01 min  
 Lab File: BF097185.D  
 Acq: 29 Jul 2017 6:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-072617

Tot Ion:152 Resp: 112075  
 Ion Ratio Lower Upper  
 152 100  
 150 158.0 126.2 189.2  
 115 66.0 52.2 78.2



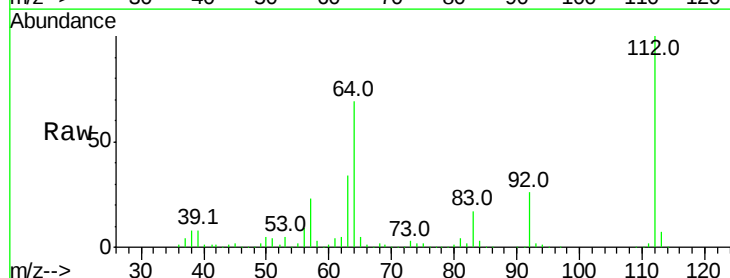
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



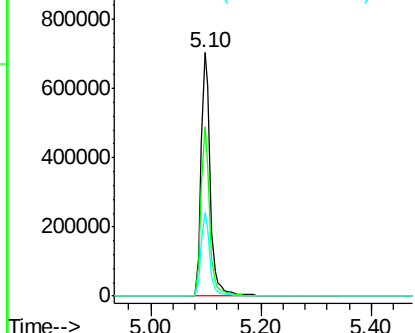
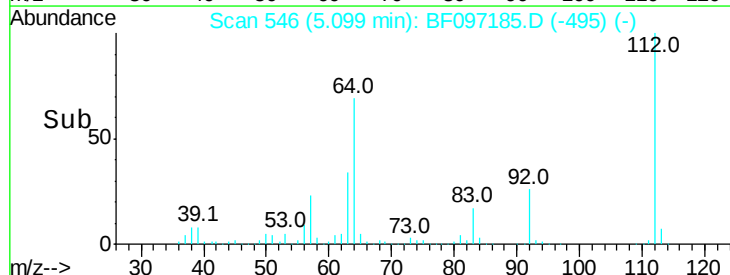
#5

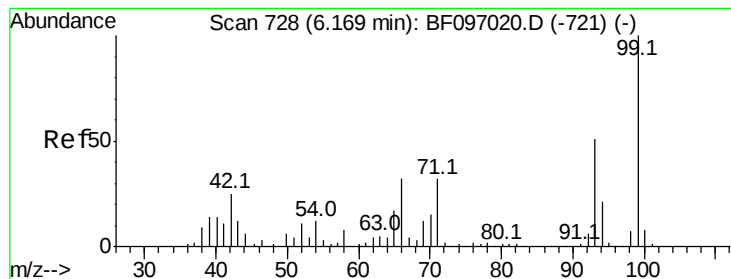
2-Fluorophenol  
 Concen: 109.504 ng  
 RT: 5.10 min Scan# 546  
 Delta R.T. 0.00 min  
 Lab File: BF097185.D  
 Acq: 29 Jul 2017 6:20

Tgt Ion:112 Resp: 814111  
 Ion Ratio Lower Upper  
 112 100  
 64 69.4 46.0 69.0#  
 63 34.5 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: 102.372 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097185.D

Acq: 29 Jul 2017 6:20

Instrument :

BNA\_F

ClientSampleId :

TR-04-072617

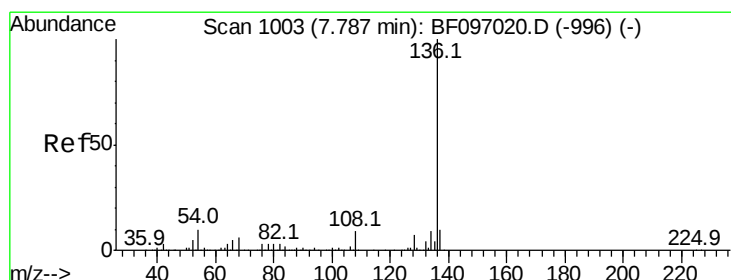
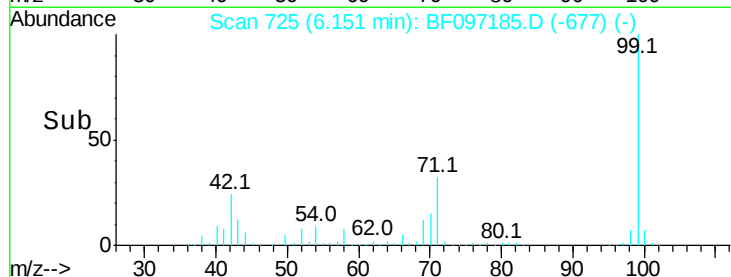
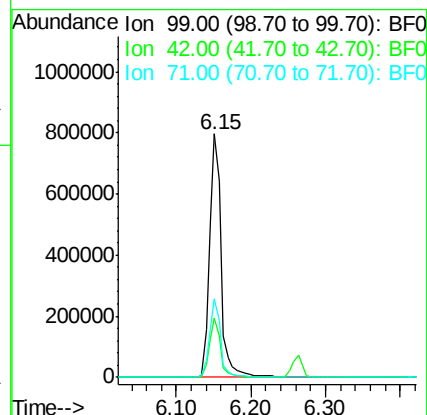
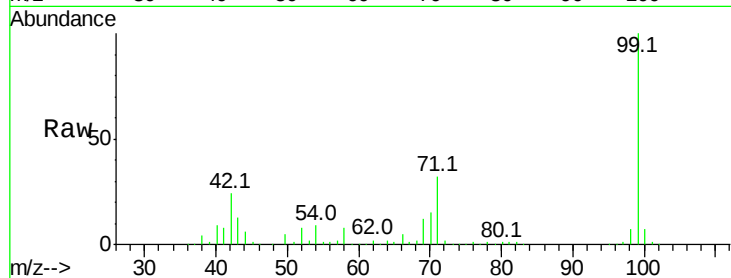
Tot Ion: 99 Resp: 868872

Ion Ratio Lower Upper

99 100

42 24.2 13.5 20.3#

71 32.3 24.5 36.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF097185.D

Acq: 29 Jul 2017 6:20

Tgt Ion: 136 Resp: 408560

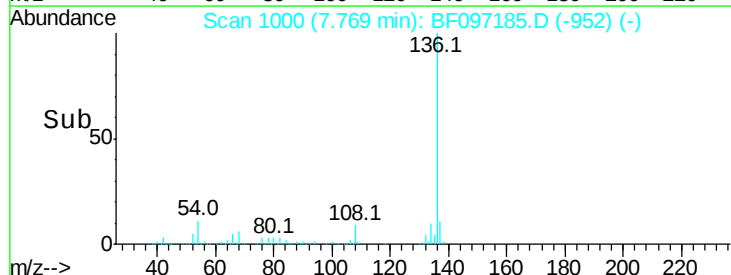
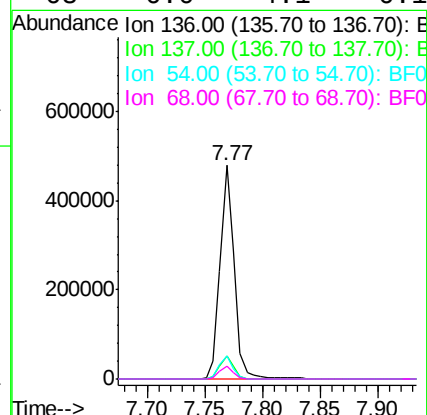
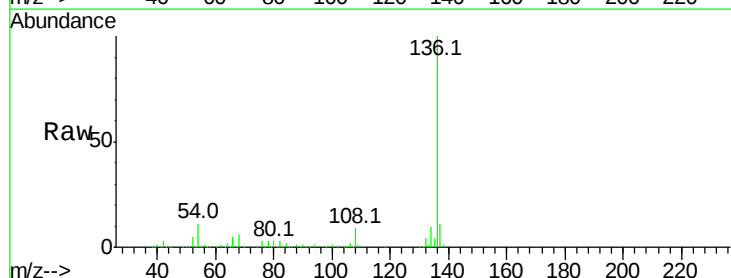
Ion Ratio Lower Upper

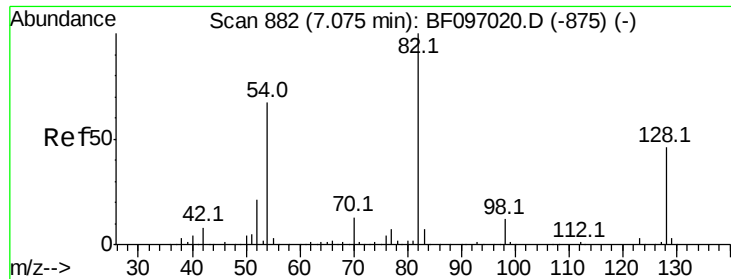
136 100

137 11.1 8.5 12.7

54 10.7 4.9 7.3#

68 6.0 4.1 6.1

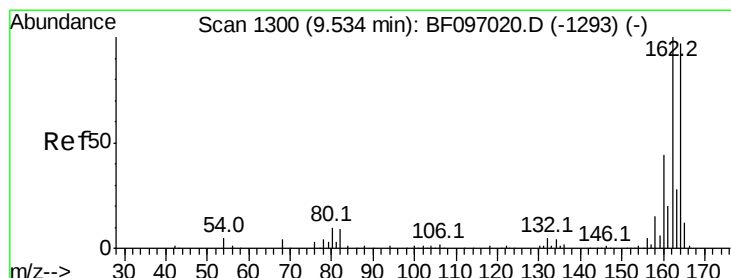
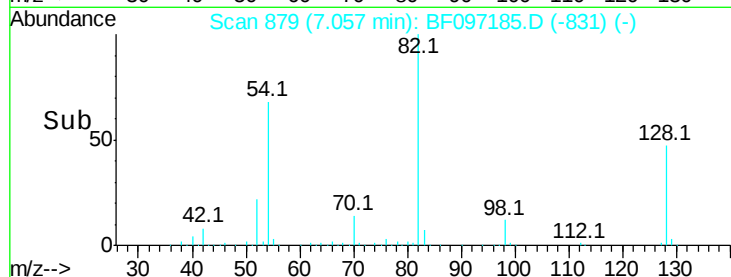
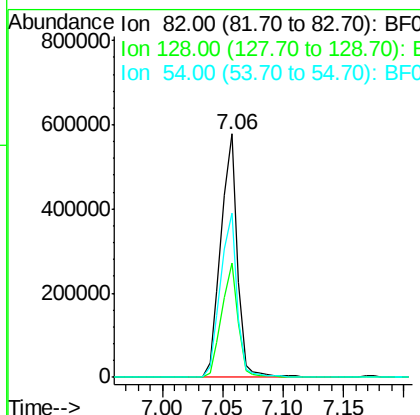
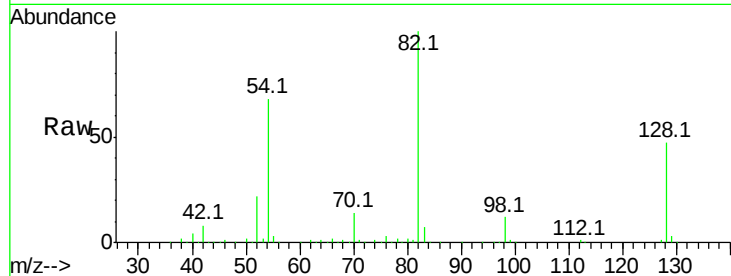




#23  
 Nitrobenzene-d5  
 Concen: 78.865 ng  
 RT: 7.06 min Scan# 879  
 Delta R.T. -0.02 min  
 Lab File: BF097185.D  
 Acq: 29 Jul 2017 6:20

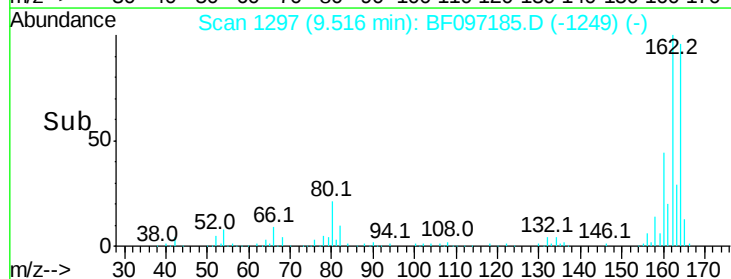
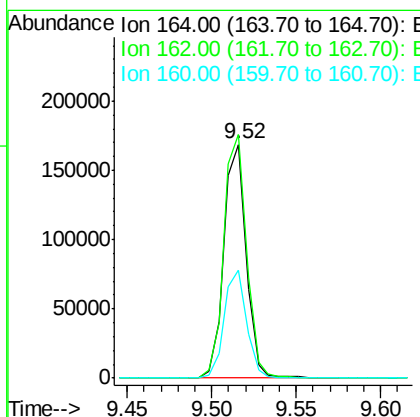
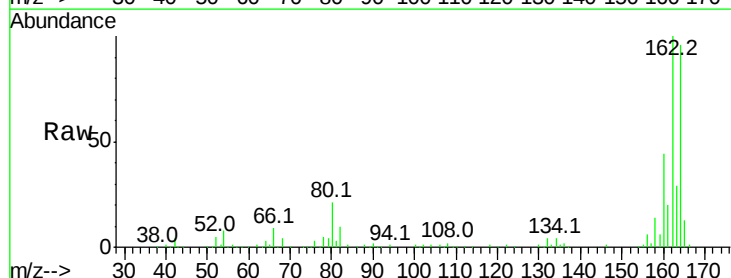
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-072617

| Tot Ion | 82    | Resp  | 549250 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 47.1  | 34.0  | 51.0   |
| 54      | 67.6  | 42.2  | 63.2#  |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. -0.02 min  
 Lab File: BF097185.D  
 Acq: 29 Jul 2017 6:20

| Tgt Ion | 164   | Resp  | 155623 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 104.1 | 82.6  | 123.8  |
| 160     | 45.9  | 36.2  | 54.2   |

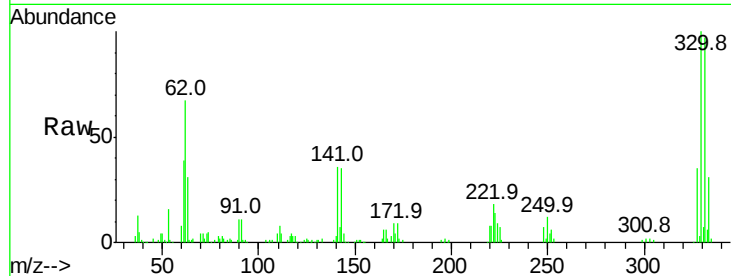




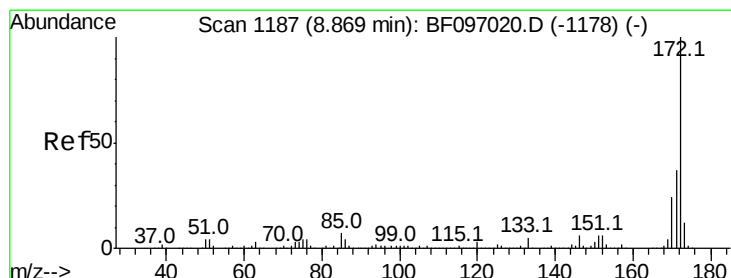
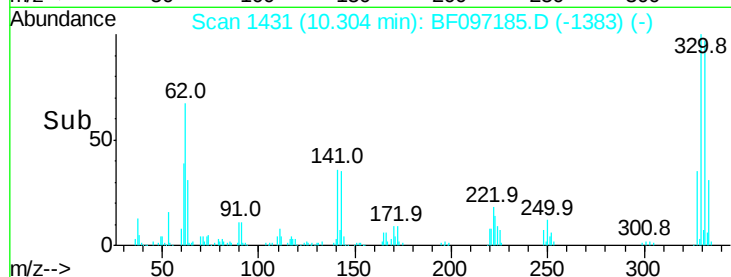
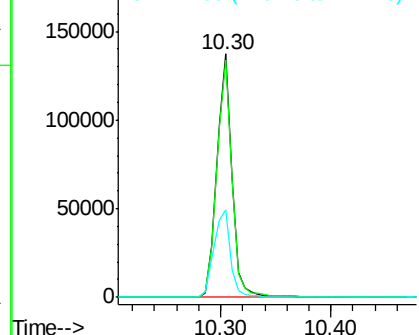
#41  
 2,4,6-Tribromophenol  
 Concen: 104.108 ng  
 RT: 10.30 min Scan# 1431  
 Delta R.T. -0.02 min  
 Lab File: BF097185.D  
 Acq: 29 Jul 2017 6:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-072617

Tot Ion:330 Resp: 128008  
 Ion Ratio Lower Upper  
 330 100  
 332 98.5 76.6 115.0  
 141 39.1 31.4 47.2

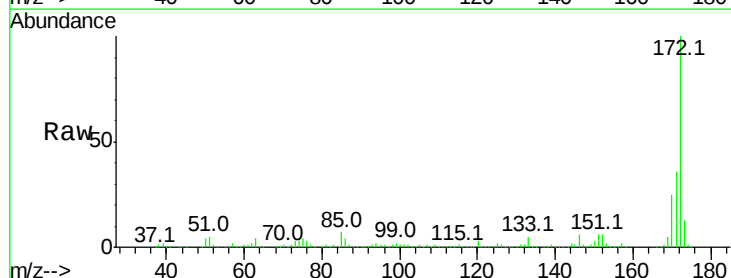


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

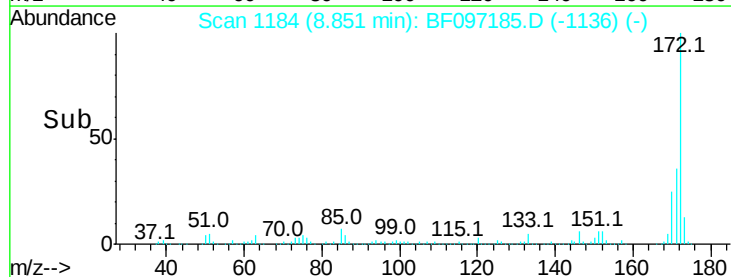
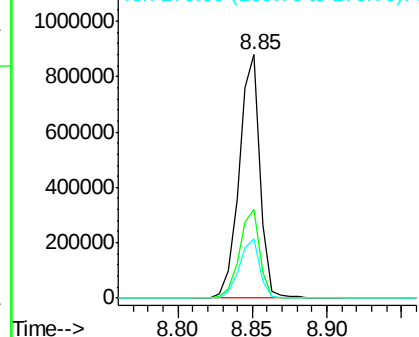


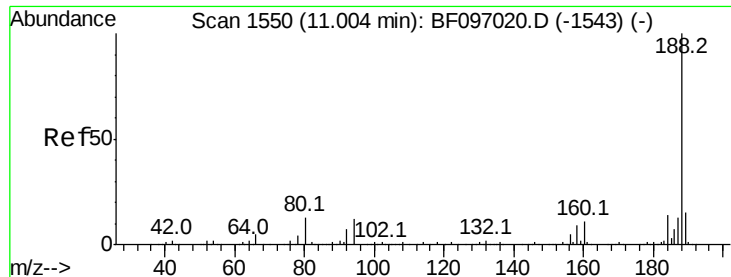
#44  
 2-Fluorobiphenyl  
 Concen: 93.393 ng  
 RT: 8.85 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: BF097185.D  
 Acq: 29 Jul 2017 6:20

Tgt Ion:172 Resp: 856411  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.6 44.4  
 170 24.6 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

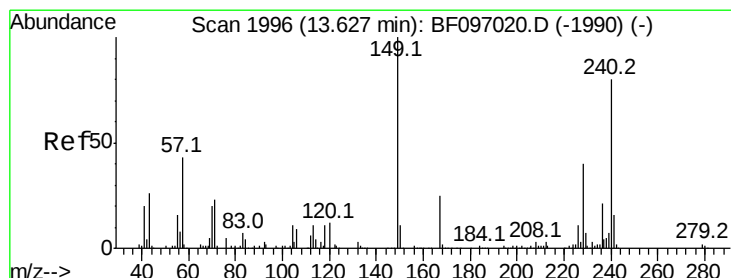
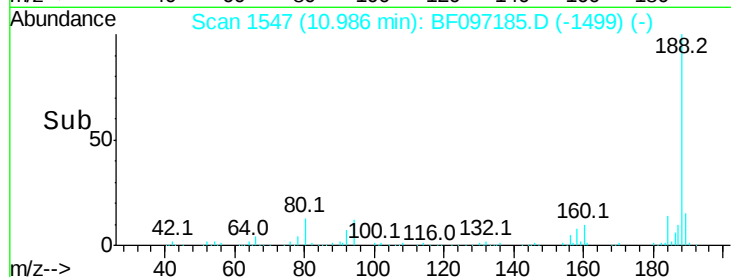
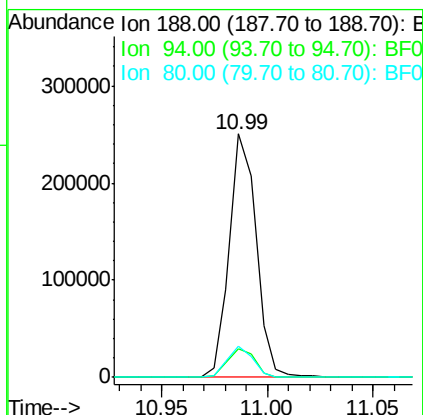
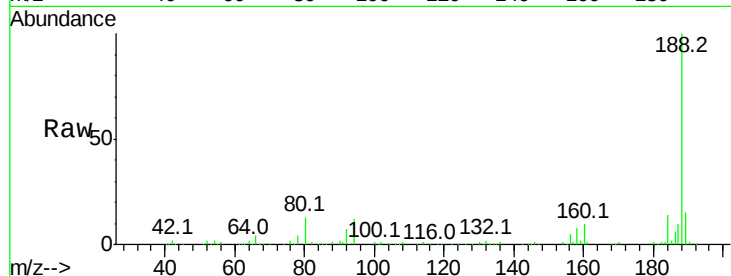




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF097185.D  
Acq: 29 Jul 2017 6:20

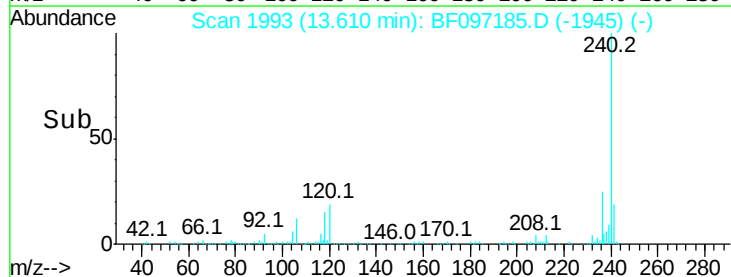
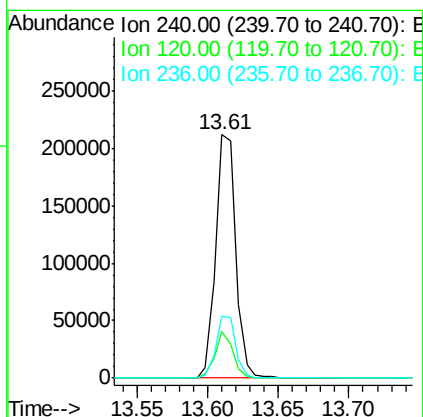
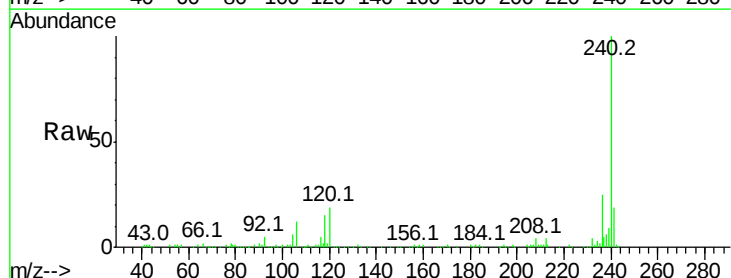
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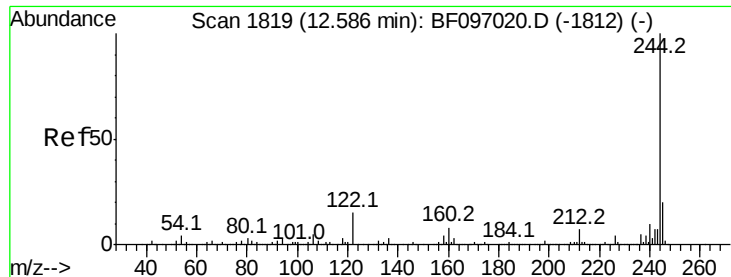
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.9  | 9.4   | 14.2  |
| 80      | 12.7  | 10.2  | 15.2  |



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.61 min Scan# 1993  
Delta R.T. -0.02 min  
Lab File: BF097185.D  
Acq: 29 Jul 2017 6:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 18.9  | 5.8   | 8.8#  |
| 236     | 25.4  | 20.5  | 30.7  |





#78

Terphenyl-d14

Concen: 58.276 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097185.D

Acq: 29 Jul 2017 6:20

Instrument :

BNA\_F

ClientSampleId :

TR-04-072617

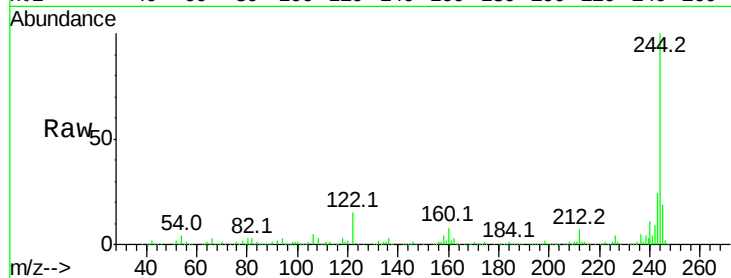
Tot Ion:244 Resp: 602206

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

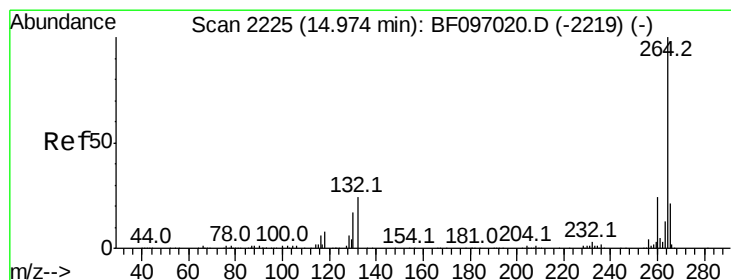
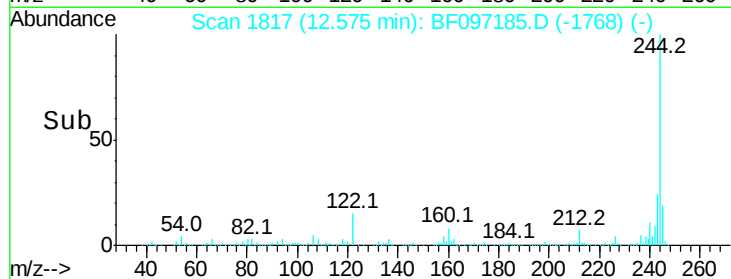
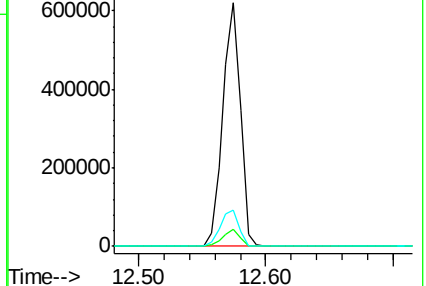
122 14.8 10.3 15.5



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 14.96 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF097185.D

Acq: 29 Jul 2017 6:20

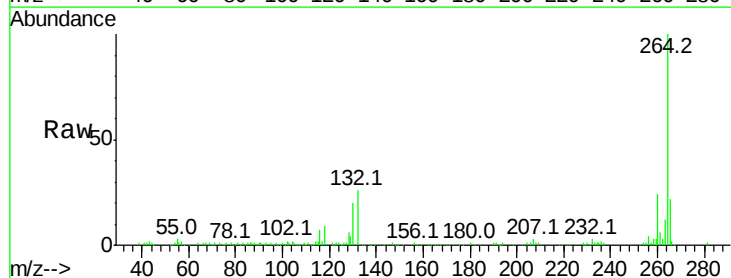
Tgt Ion:264 Resp: 135404

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

265 22.1 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

