

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\  
 Data File : BF087593.D  
 Acq On : 31 May 2016 21:58  
 Operator : UM/SJ  
 Sample : H3222-15  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-28

Quant Time: Jun 01 03:55:09 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 01 03:17:16 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.45  | 152  | 123578   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 9.48  | 136  | 515950   | 20.00  | ng    | 0.01     |
| 38) Acenaphthene-d10        | 12.30 | 164  | 248659   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 14.71 | 188  | 498688   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 18.43 | 240  | 439314   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 20.11 | 264  | 335173   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.36  | 112  | 511276   | 72.70  | ng    | 0.01     |
| 7) Phenol-d6                | 7.02  | 99   | 605399   | 63.71  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.36  | 82   | 882878   | 86.24  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 13.60 | 330  | 338504   | 141.66 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 11.24 | 172  | 1483373  | 84.10  | ng    | -0.01    |
| 78) Terphenyl-d14           | 17.06 | 244  | 1470192  | 71.15  | ng    | 0.00     |

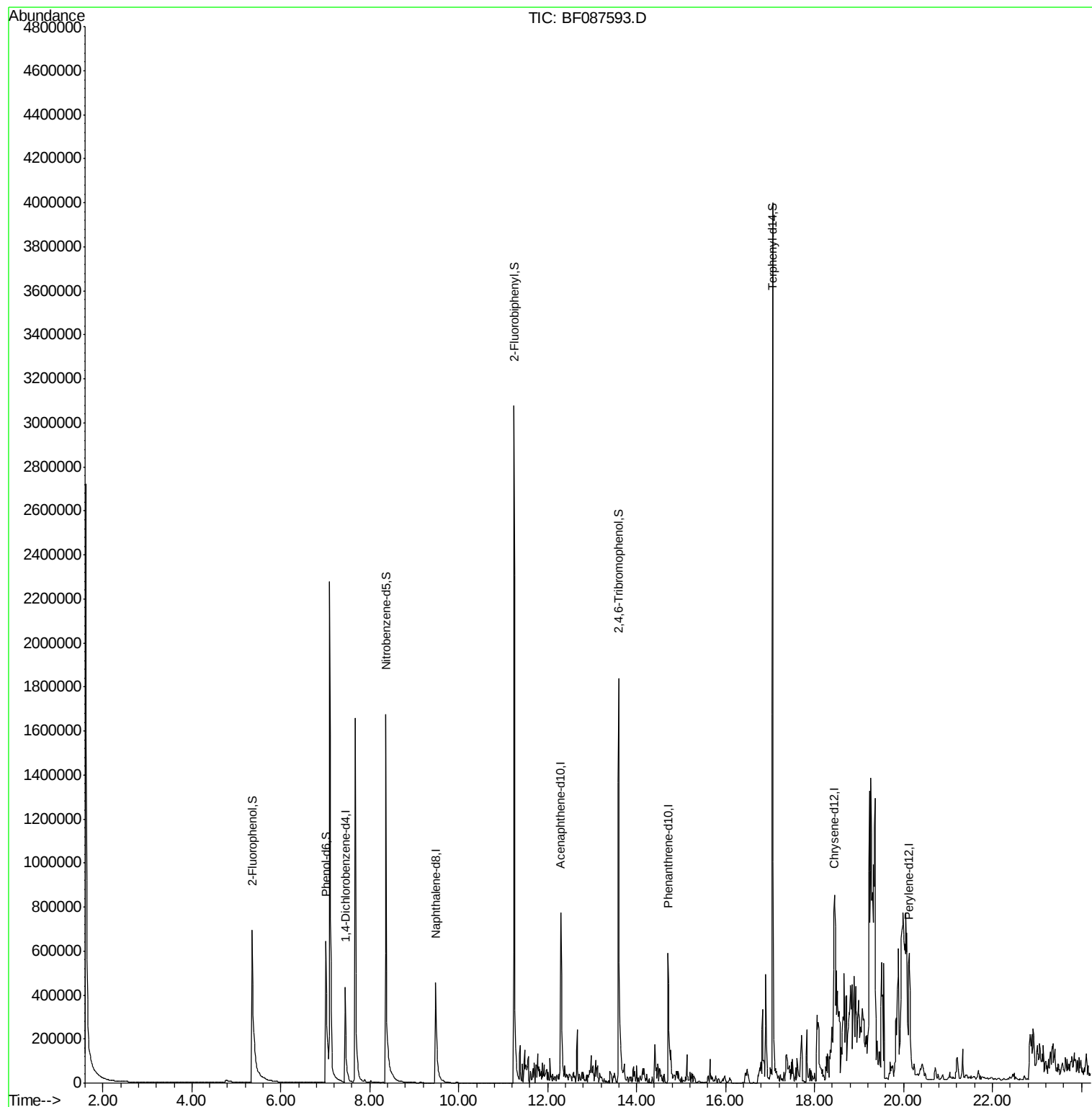
Target Compounds Qvalue

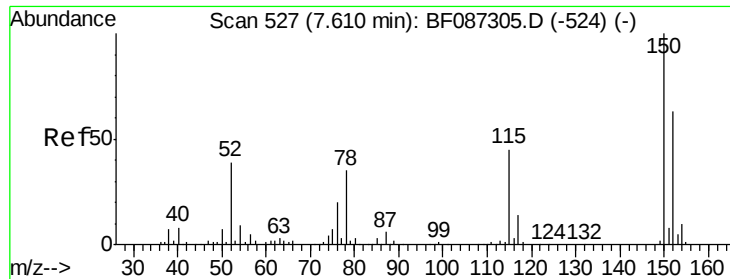
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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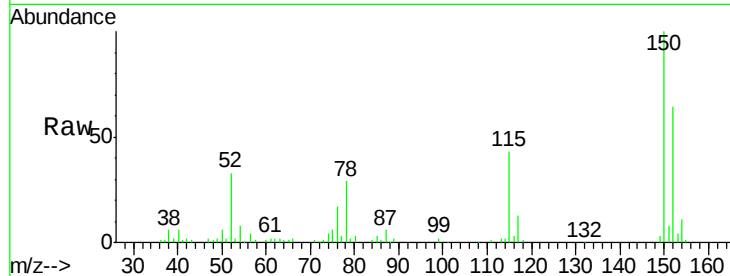


#1

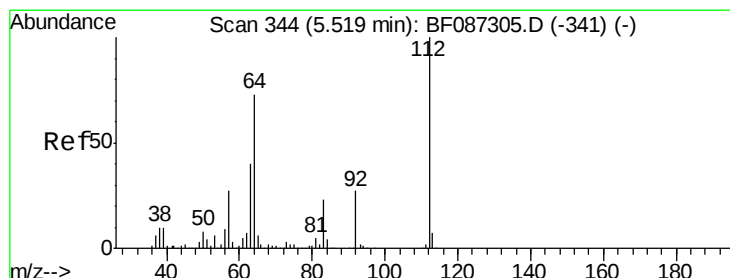
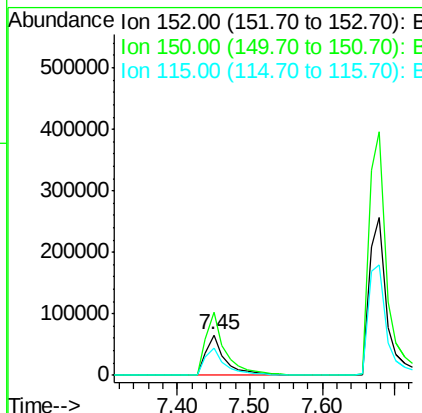
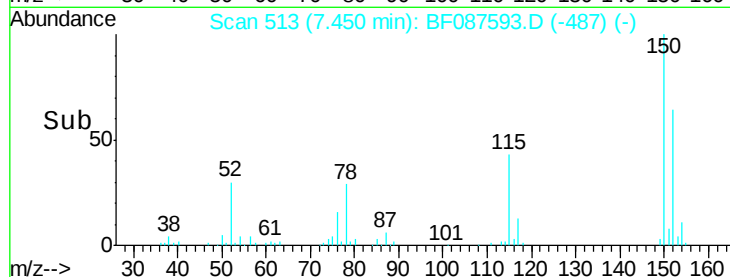
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.45 min Scan# 513  
Delta R.T. -0.00 min  
Lab File: BF087593.D  
Acq: 31 May 2016 21:58

Instrument :  
BNA\_F  
ClientSampleId :  
MW-28

Tot Ion:152 Resp: 123578  
Ion Ratio Lower Upper  
152 100  
150 155.1 125.8 188.6  
115 66.3 51.5 77.3



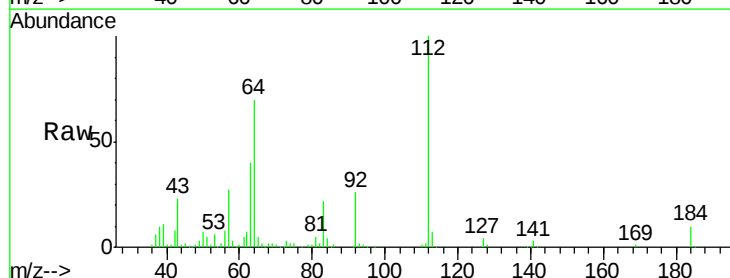
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



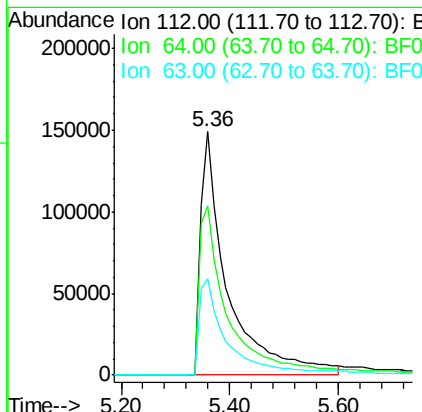
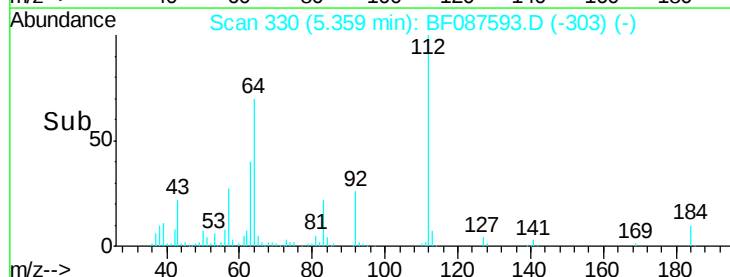
#5

2-Fluorophenol  
Concen: 72.70 ng  
RT: 5.36 min Scan# 330  
Delta R.T. 0.01 min  
Lab File: BF087593.D  
Acq: 31 May 2016 21:58

Tgt Ion:112 Resp: 511276  
Ion Ratio Lower Upper  
112 100  
64 69.5 52.1 78.1  
63 39.6 25.7 38.5#



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: 63.71 ng

RT: 7.02 min Scan# 475

Delta R.T. -0.00 min

Lab File: BF087593.D

Acq: 31 May 2016 21:58

Instrument :

BNA\_F

ClientSampled :

MW-28

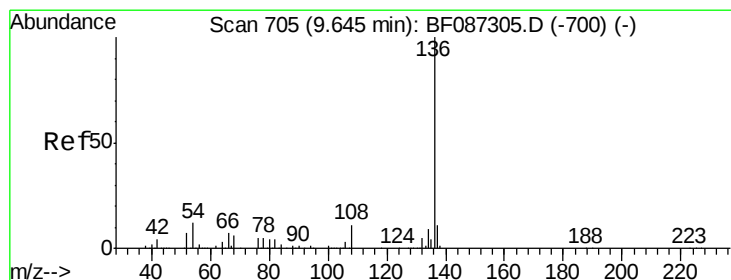
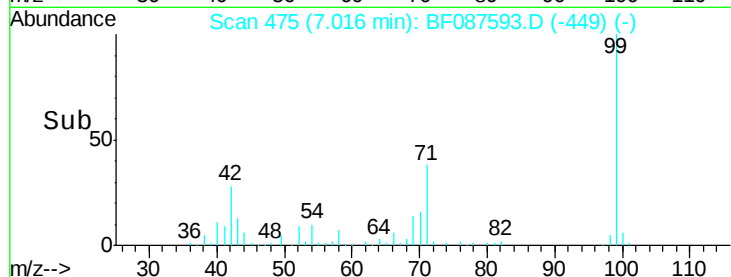
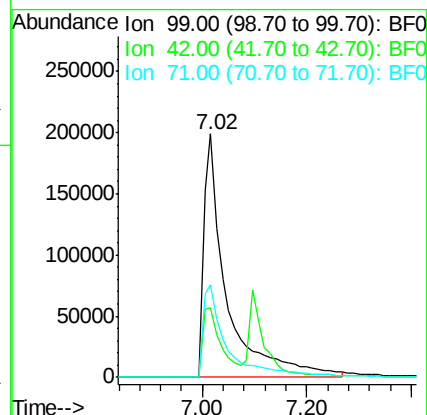
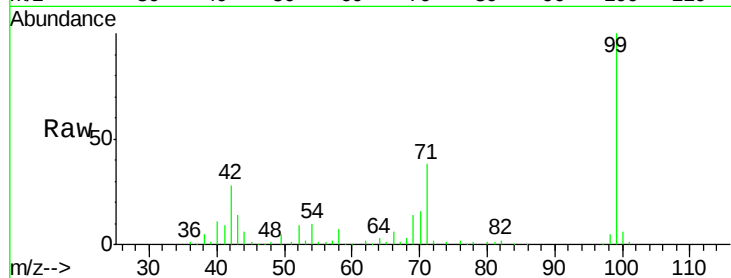
Tot Ion: 99 Resp: 605399

Ion Ratio Lower Upper

99 100

42 28.5 13.6 20.4#

71 38.2 24.6 36.8#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.48 min Scan# 691

Delta R.T. 0.01 min

Lab File: BF087593.D

Acq: 31 May 2016 21:58

Tgt Ion: 136 Resp: 515950

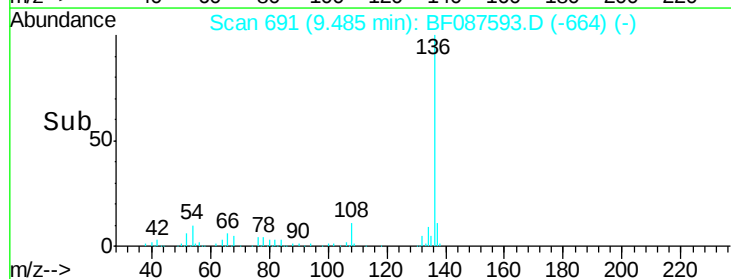
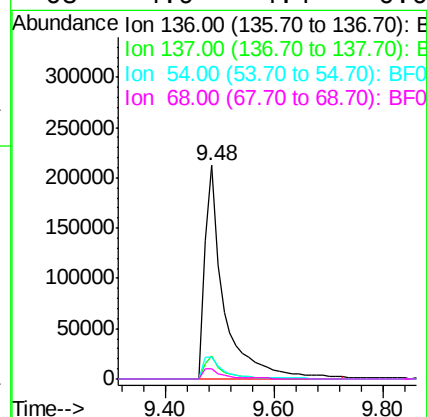
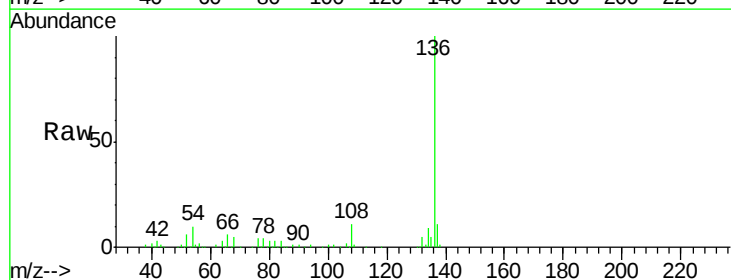
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 10.1 5.0 7.4#

68 4.9 4.4 6.6

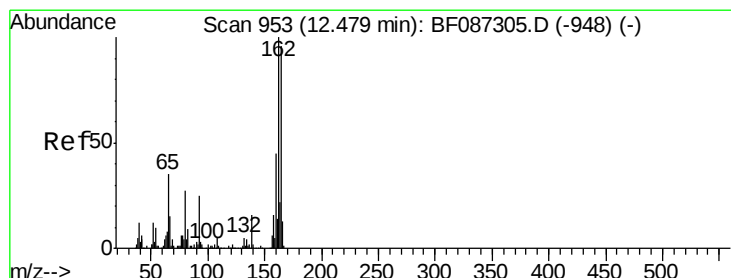
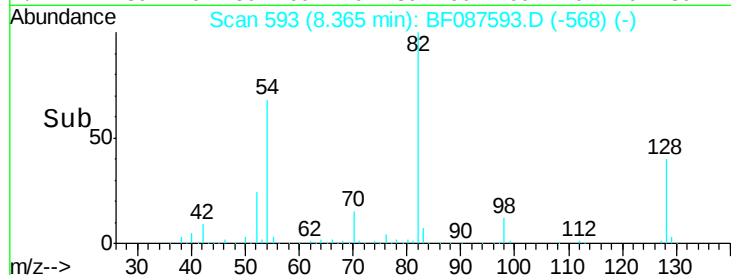
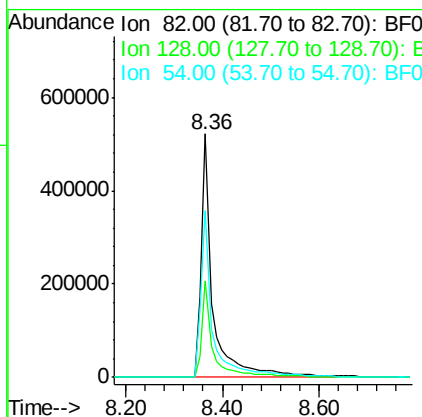
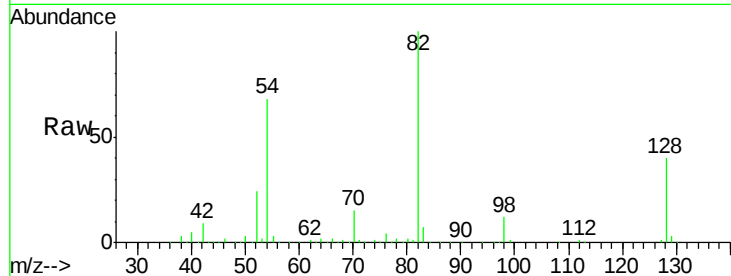




#23  
 Nitrobenzene-d5  
 Concen: 86.24 ng  
 RT: 8.36 min Scan# 593  
 Delta R.T. -0.01 min  
 Lab File: BF087593.D  
 Acq: 31 May 2016 21:58

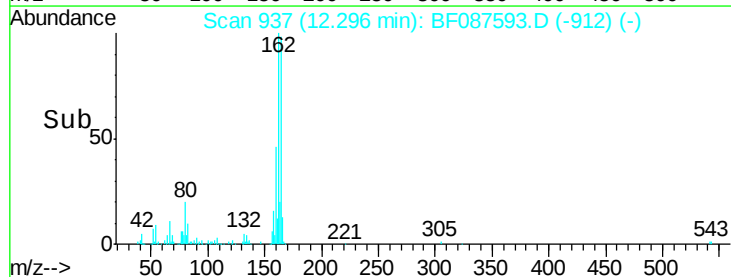
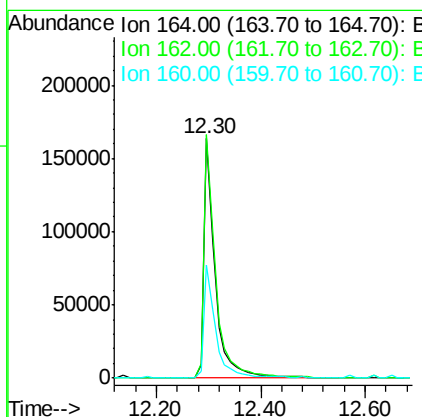
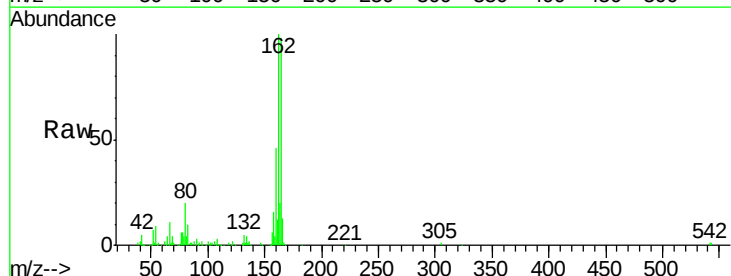
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-28

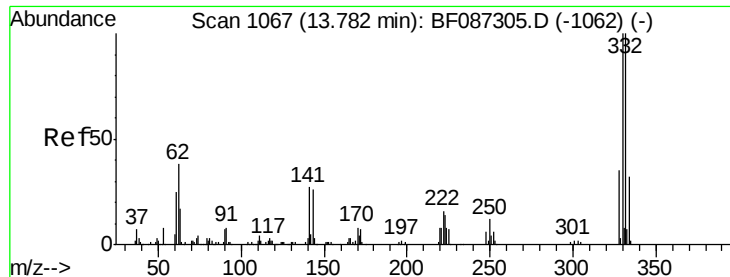
Tot Ion: 82 Resp: 882878  
 Ion Ratio Lower Upper  
 82 100  
 128 39.7 40.6 61.0#  
 54 68.3 38.1 57.1#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.30 min Scan# 937  
 Delta R.T. -0.01 min  
 Lab File: BF087593.D  
 Acq: 31 May 2016 21:58

Tgt Ion: 164 Resp: 248659  
 Ion Ratio Lower Upper  
 164 100  
 162 101.6 82.8 124.2  
 160 47.0 36.9 55.3

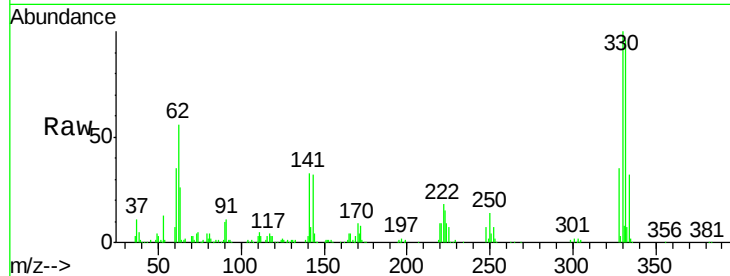




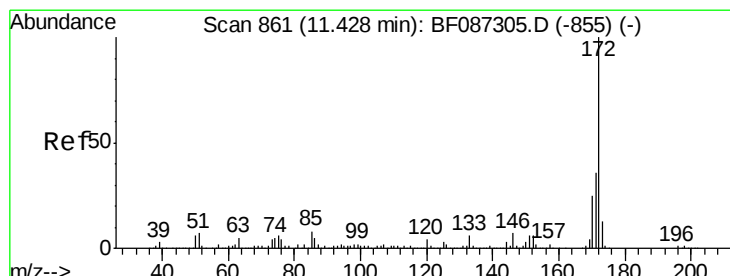
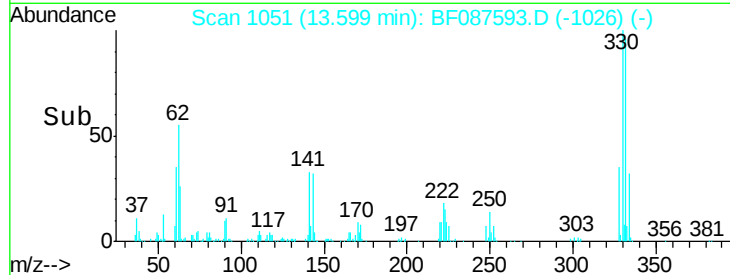
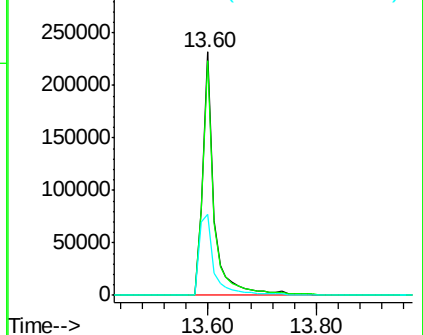
#41  
 2,4,6-Tribromophenol  
 Concen: 141.66 ng  
 RT: 13.60 min Scan# 1051  
 Delta R.T. -0.01 min  
 Lab File: BF087593.D  
 Acq: 31 May 2016 21:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-28

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 79.0  | 118.4 |
| 141     | 43.0  | 31.2  | 46.8  |

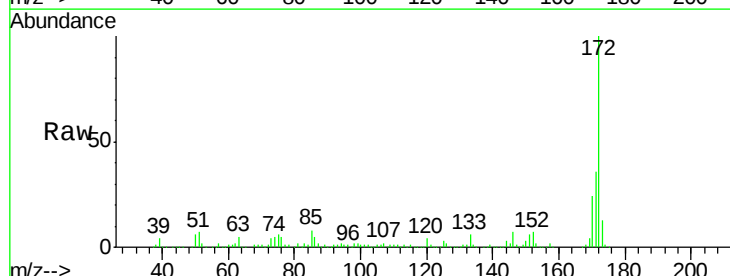


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

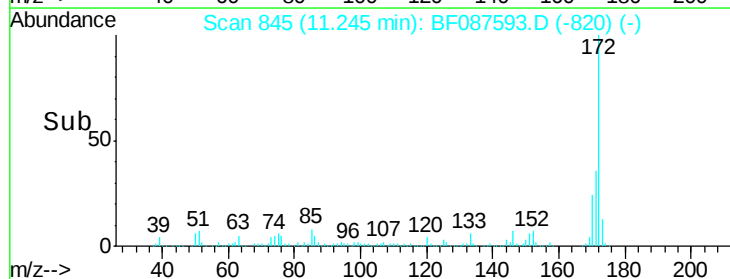
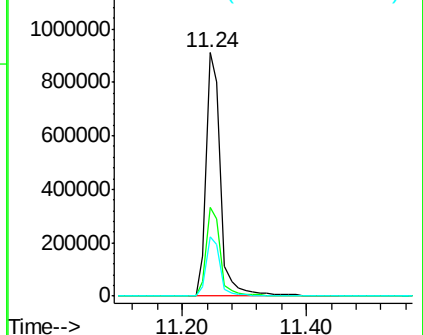


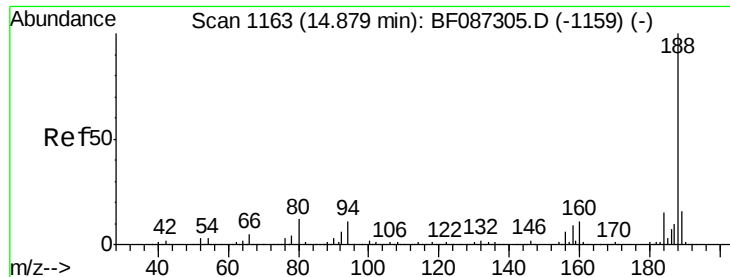
#44  
 2-Fluorobiphenyl  
 Concen: 84.10 ng  
 RT: 11.24 min Scan# 845  
 Delta R.T. -0.01 min  
 Lab File: BF087593.D  
 Acq: 31 May 2016 21:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.0  | 43.6  |
| 170     | 24.4  | 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

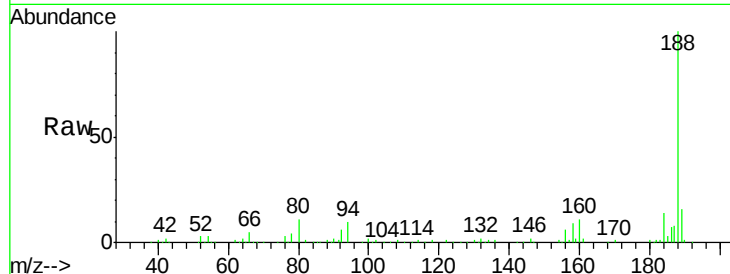




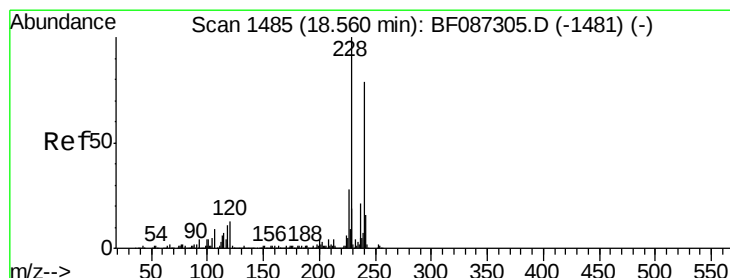
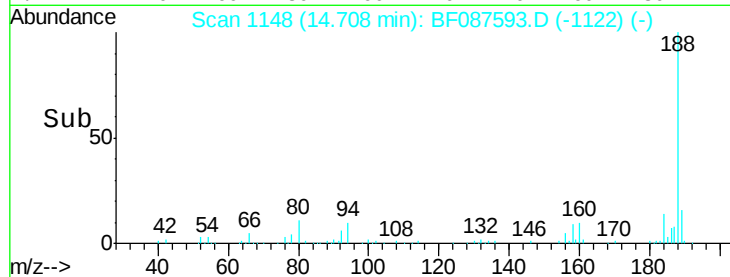
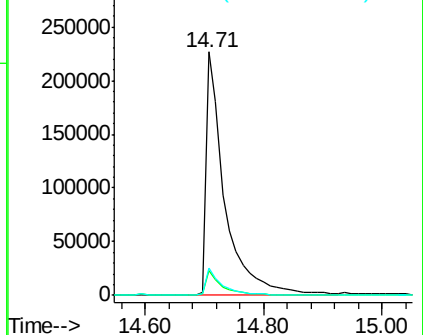
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.71 min Scan# 1148  
Delta R.T. -0.00 min  
Lab File: BF087593.D  
Acq: 31 May 2016 21:58

Instrument :  
BNA\_F  
ClientSampleId :  
MW-28

Tot Ion:188 Resp: 498688  
Ion Ratio Lower Upper  
188 100  
94 10.2 6.8 10.2  
80 11.0 7.1 10.7#

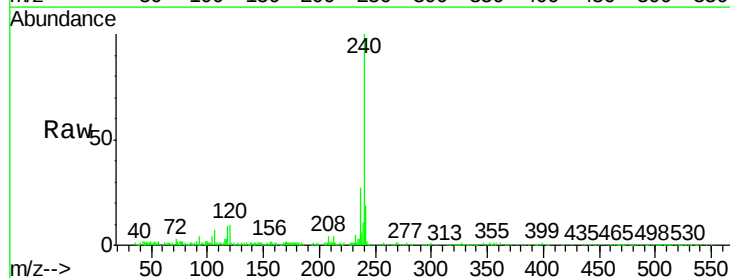


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

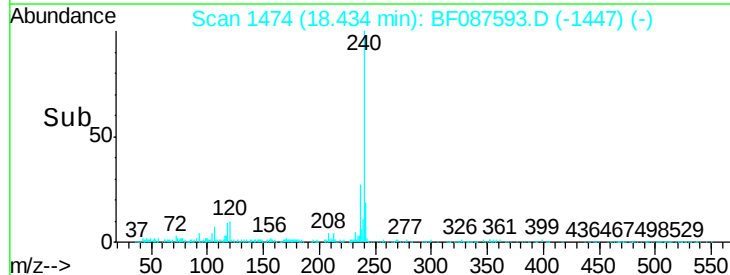
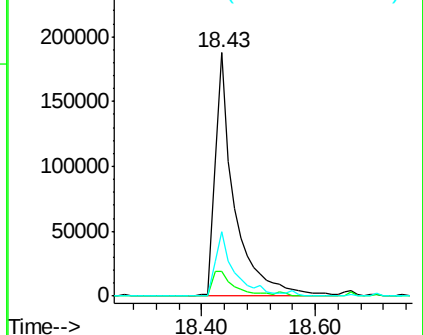


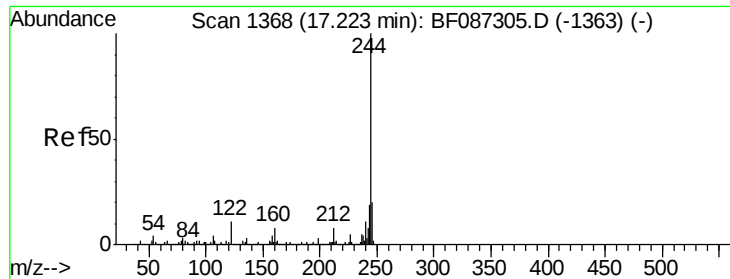
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.43 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: BF087593.D  
Acq: 31 May 2016 21:58

Tgt Ion:240 Resp: 439314  
Ion Ratio Lower Upper  
240 100  
120 10.0 11.2 16.8#  
236 26.5 21.2 31.8



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





#78

Terphenyl-d14

Concen: 71.15 ng

RT: 17.06 min Scan# 1354

Delta R.T. -0.00 min

Lab File: BF087593.D

Acq: 31 May 2016 21:58

Instrument :

BNA\_F

ClientSampleId :

MW-28

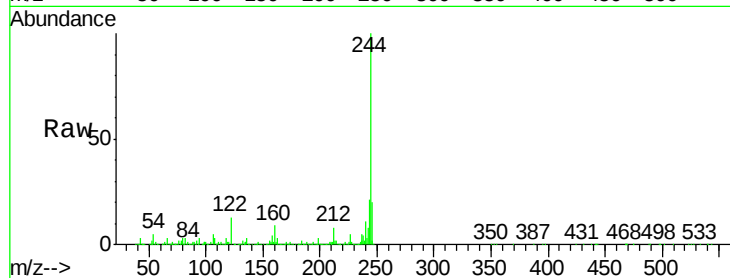
Tot Ion:244 Resp: 1470192

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

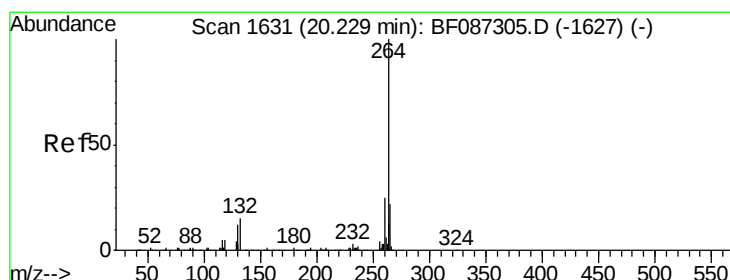
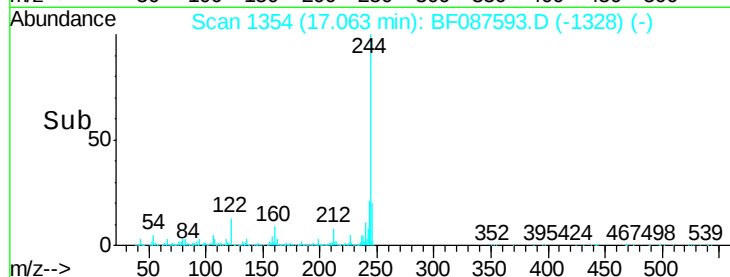
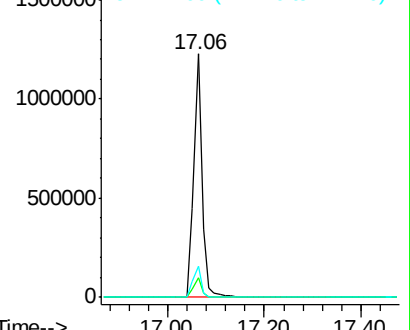
122 12.8 12.0 18.0



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: 20.00 ng

RT: 20.11 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BF087593.D

Acq: 31 May 2016 21:58

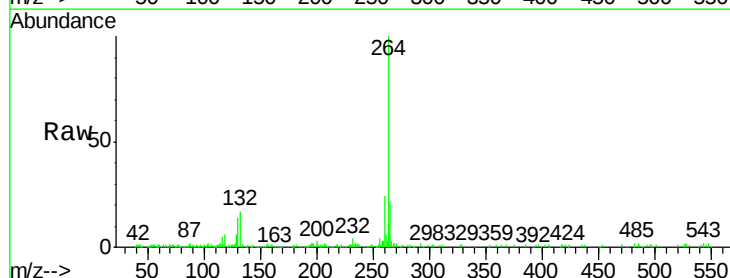
Tgt Ion:264 Resp: 335173

Ion Ratio Lower Upper

264 100

260 24.2 19.5 29.3

265 21.6 17.3 25.9



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

