

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\  
 Data File : BF087257.D  
 Acq On : 21 May 2016 7:41  
 Operator : UM/SJ  
 Sample : H3167-01  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAV-MW-11

Quant Time: May 23 01:13:21 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 17 16:55:01 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.56  | 152  | 123187   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8          | 7.84  | 136  | 514643   | 20.00  | ng    | -0.06    |
| 38) Acenaphthene-d10        | 9.59  | 164  | 244008   | 20.00  | ng    | -0.06    |
| 63) Phenanthrene-d10        | 11.06 | 188  | 385492   | 20.00  | ng    | -0.06    |
| 75) Chrysene-d12            | 13.70 | 240  | 250247   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12            | 15.05 | 264  | 221691   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.13  | 112  | 587393   | 80.15  | ng    | -0.07    |
| 7) Phenol-d6                | 6.23  | 99   | 487003   | 49.54  | ng    | -0.06    |
| 23) Nitrobenzene-d5         | 7.13  | 82   | 963064   | 93.26  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol    | 10.39 | 330  | 346989   | 128.69 | ng    | -0.06    |
| 44) 2-Fluorobiphenyl        | 8.92  | 172  | 1531734  | 103.96 | ng    | -0.06    |
| 78) Terphenyl-d14           | 12.65 | 244  | 956115   | 86.43  | ng    | -0.06    |

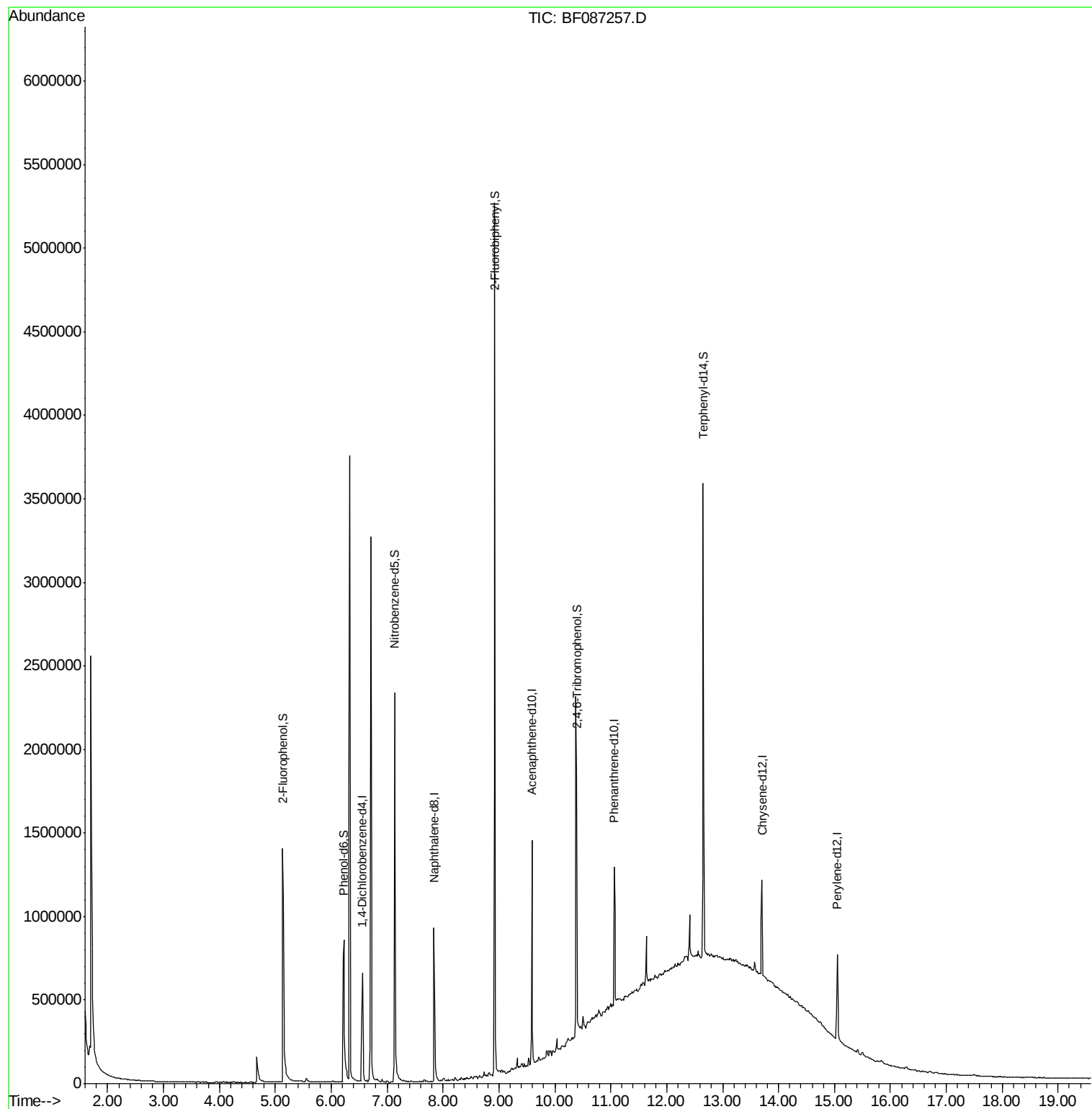
Target Compounds Qvalue

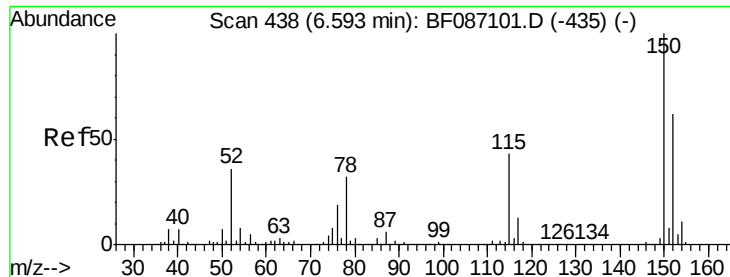
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 17 16:55:01 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.05 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

Instrument :

BNA\_F

ClientSampleId :

RAV-MW-11

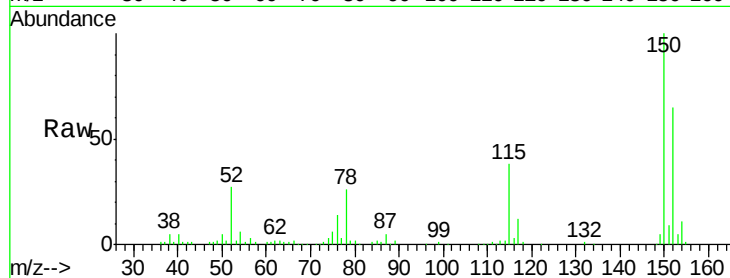
Tot Ion:152 Resp: 123187

Ion Ratio Lower Upper

152 100

150 154.4 125.8 188.6

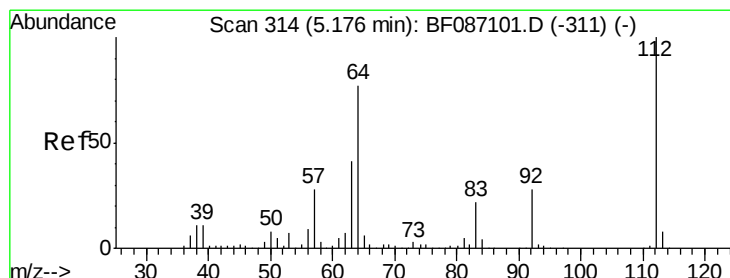
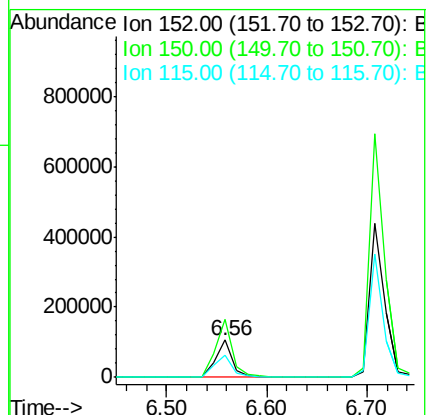
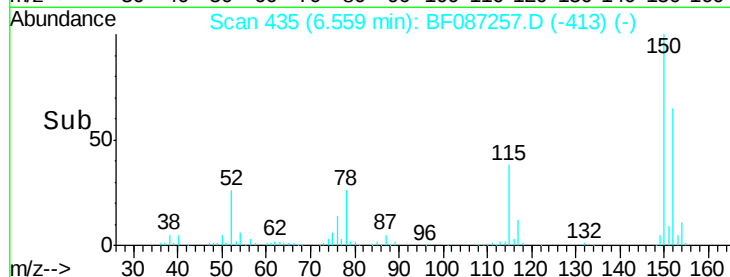
115 58.3 51.5 77.3



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: 80.15 ng

RT: 5.13 min Scan# 310

Delta R.T. -0.07 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

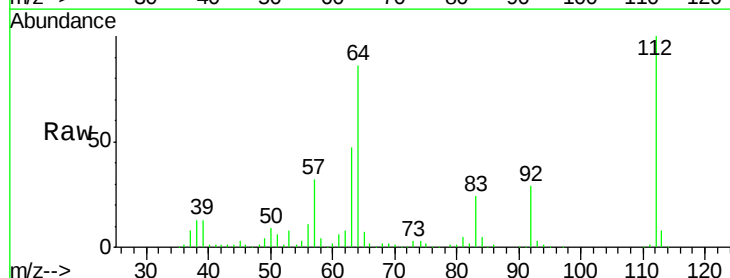
Tgt Ion:112 Resp: 587393

Ion Ratio Lower Upper

112 100

64 86.5 52.1 78.1#

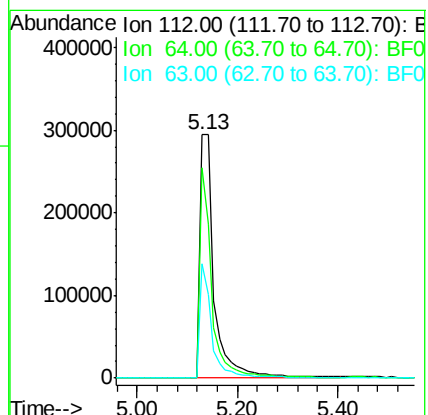
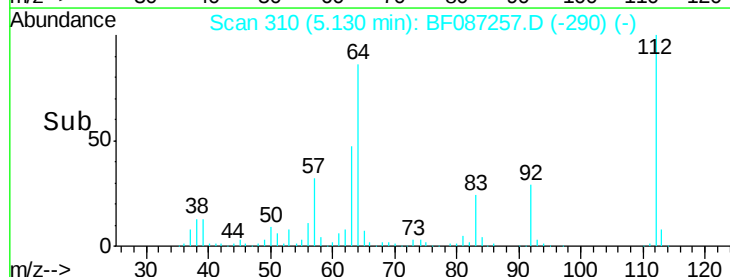
63 47.1 25.7 38.5#

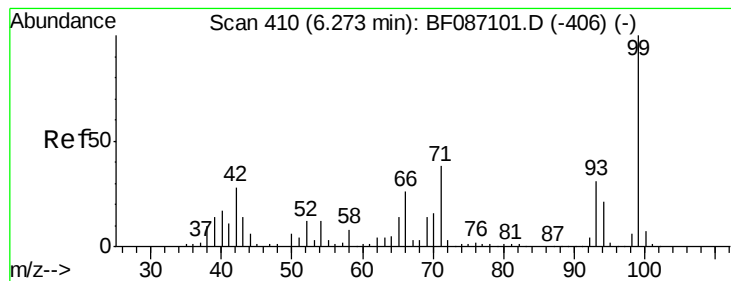


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 49.54 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.06 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

Instrument :

BNA\_F

ClientSampleId :

RAV-MW-11

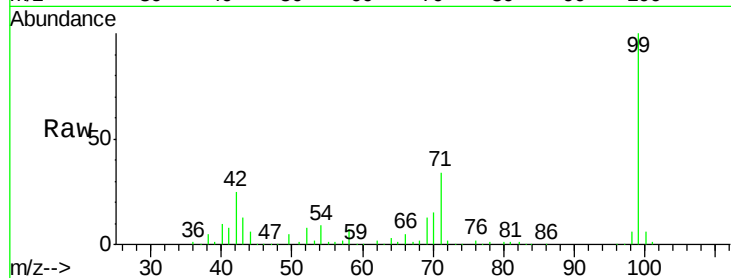
Tot Ion: 99 Resp: 487003

Ion Ratio Lower Upper

99 100

42 24.5 13.6 20.4#

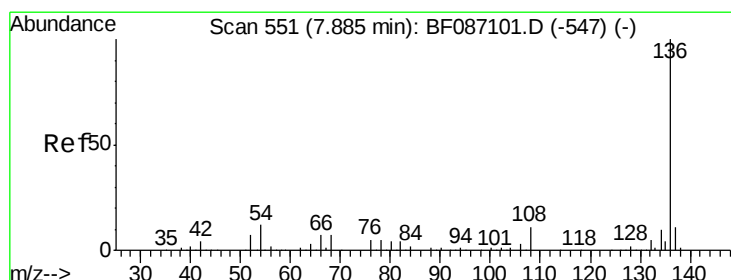
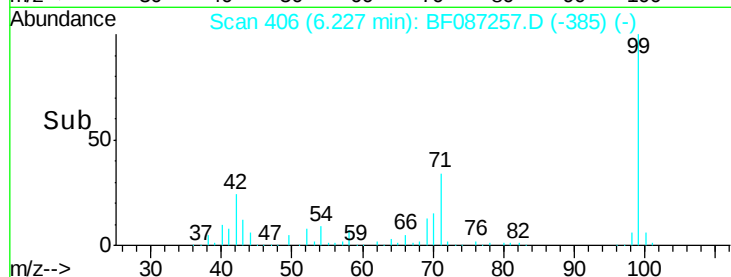
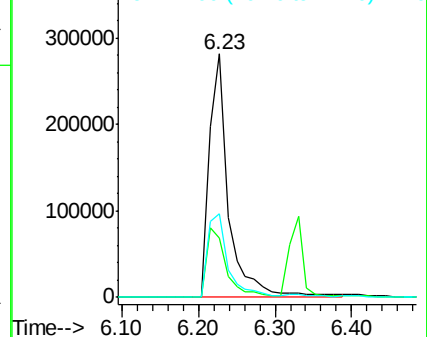
71 34.5 24.6 36.8



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.84 min Scan# 547

Delta R.T. -0.06 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

Tgt Ion: 136 Resp: 514643

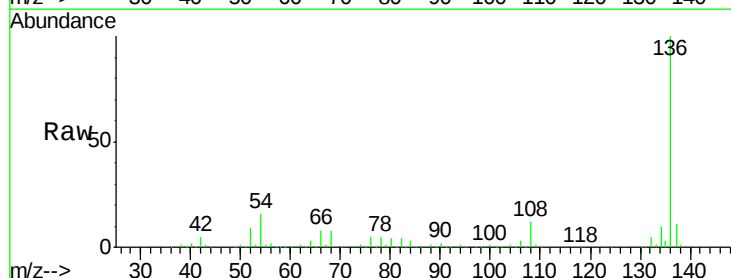
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 15.5 5.0 7.4#

68 7.7 4.4 6.6#

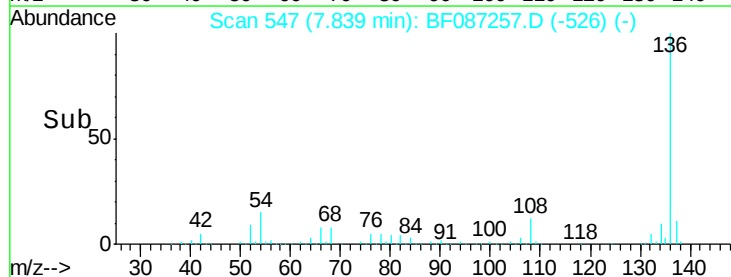
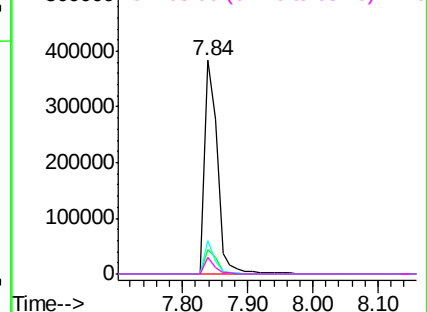


Abundance Ion 136.00 (135.70 to 136.70): E

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

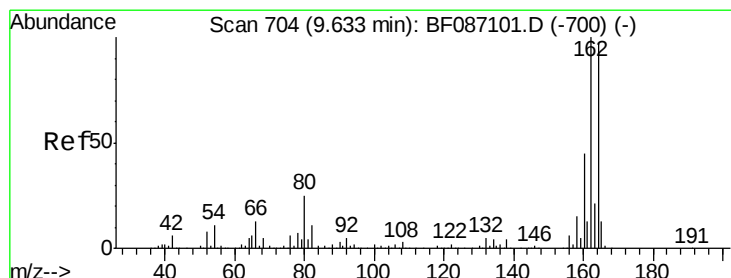
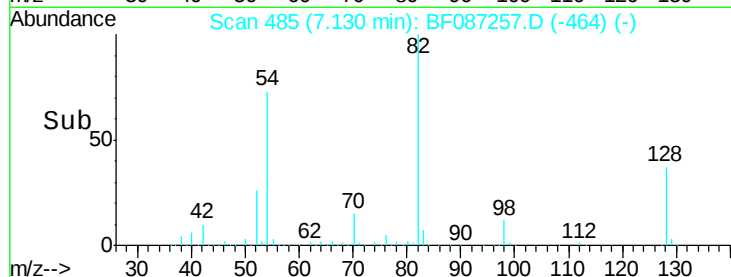
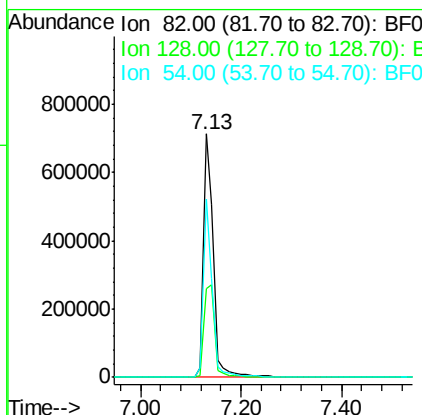
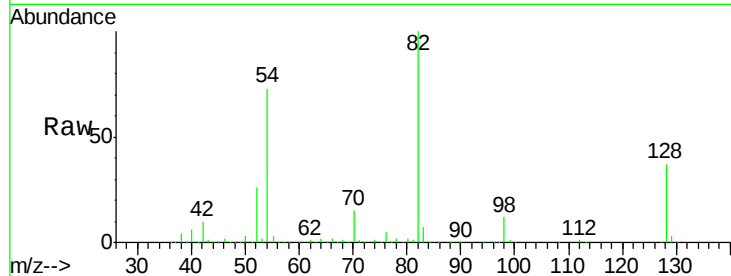




#23  
 Nitrobenzene-d5  
 Concen: 93.26 ng  
 RT: 7.13 min Scan# 485  
 Delta R.T. -0.06 min  
 Lab File: BF087257.D  
 Acq: 21 May 2016 7:41

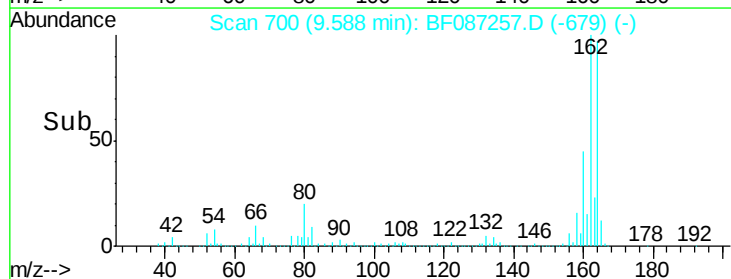
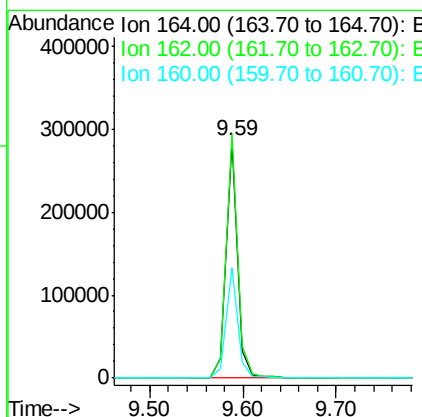
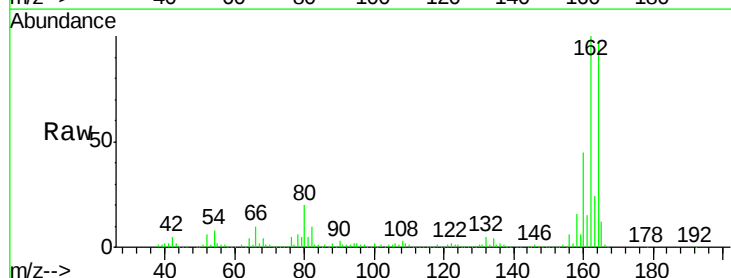
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAV-MW-11

Tot Ion: 82 Resp: 963064  
 Ion Ratio Lower Upper  
 82 100  
 128 36.5 40.6 61.0#  
 54 73.2 38.1 57.1#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.59 min Scan# 700  
 Delta R.T. -0.06 min  
 Lab File: BF087257.D  
 Acq: 21 May 2016 7:41

Tgt Ion: 164 Resp: 244008  
 Ion Ratio Lower Upper  
 164 100  
 162 102.6 82.8 124.2  
 160 46.7 36.9 55.3

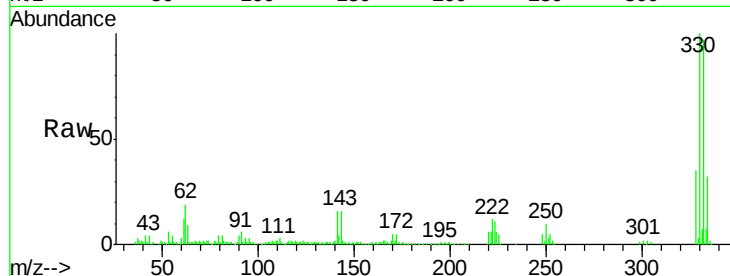




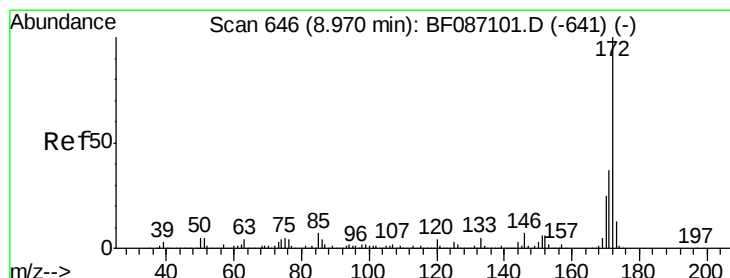
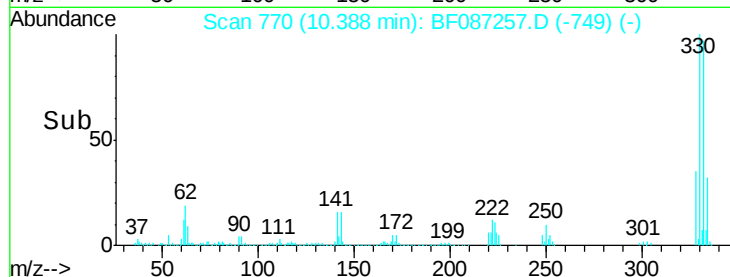
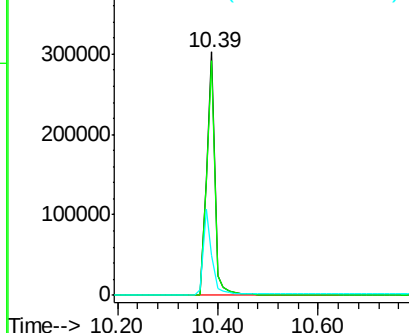
#41  
 2,4,6-Tribromophenol  
 Concen: 128.69 ng  
 RT: 10.39 min Scan# 770  
 Delta R.T. -0.06 min  
 Lab File: BF087257.D  
 Acq: 21 May 2016 7:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAV-MW-11

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.5  | 79.0  | 118.4 |
| 141     | 35.8  | 31.2  | 46.8  |

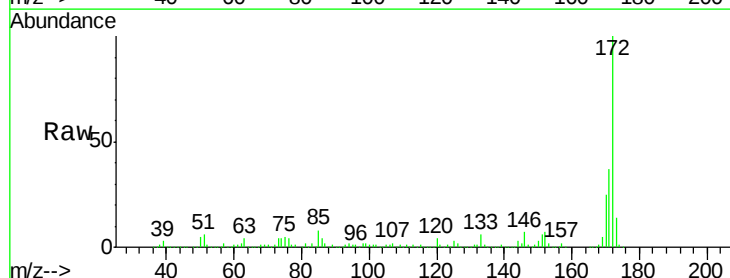


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

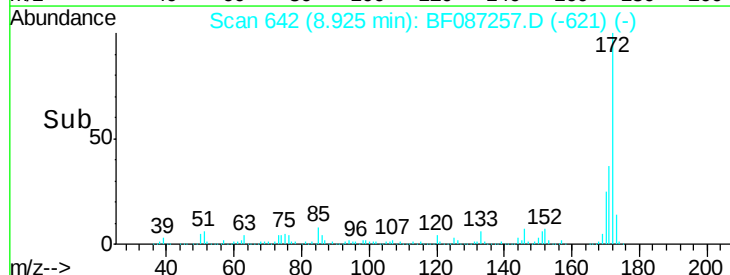
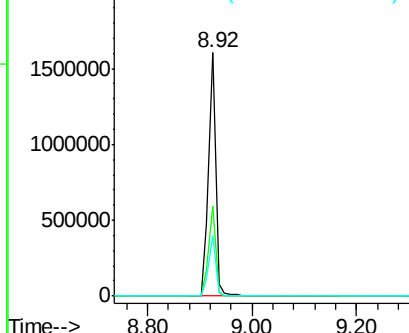


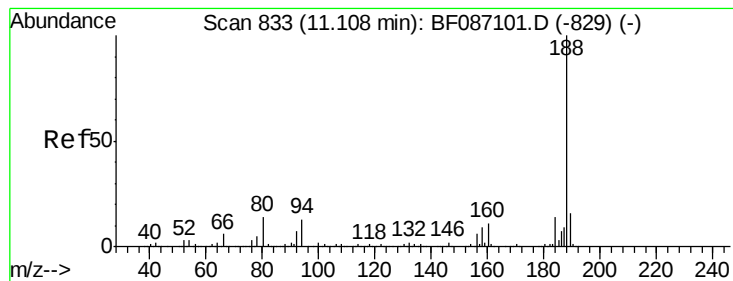
#44  
 2-Fluorobiphenyl  
 Concen: 103.96 ng  
 RT: 8.92 min Scan# 642  
 Delta R.T. -0.06 min  
 Lab File: BF087257.D  
 Acq: 21 May 2016 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.0  | 43.6  |
| 170     | 25.1  | 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: 11.06 min Scan# 829

Delta R.T. -0.06 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

Instrument :

BNA\_F

ClientSampleId :

RAV-MW-11

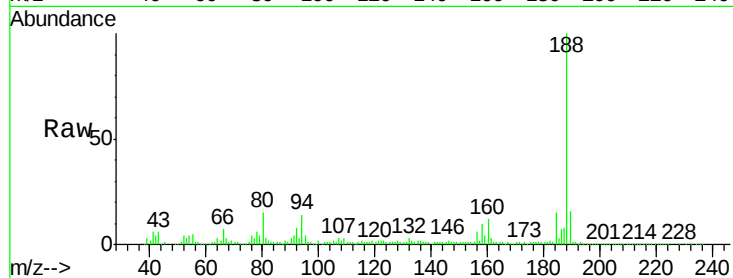
Tot Ion:188 Resp: 385492

Ion Ratio Lower Upper

188 100

94 14.2 6.8 10.2#

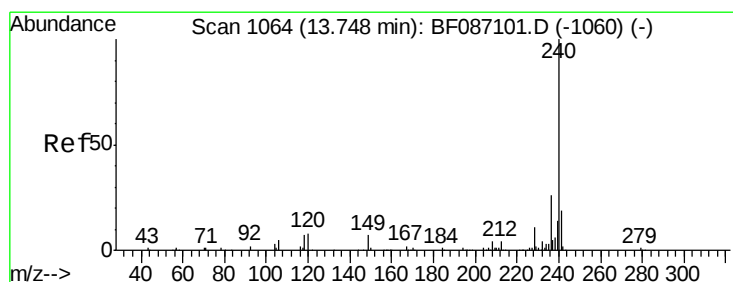
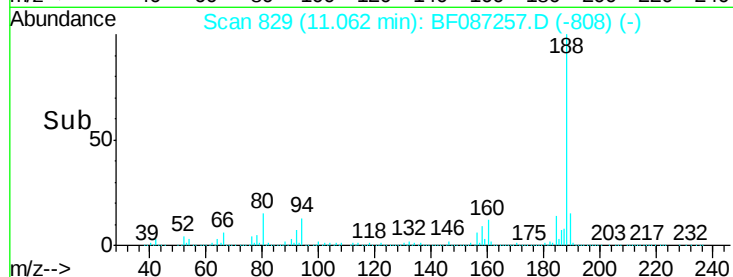
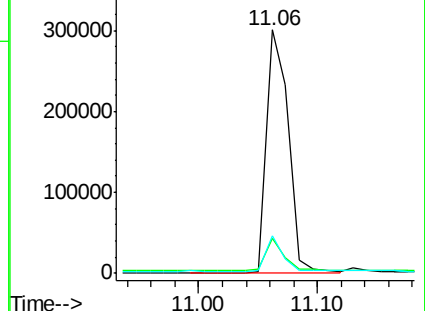
80 15.5 7.1 10.7#



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: 13.70 min Scan# 1060

Delta R.T. -0.06 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

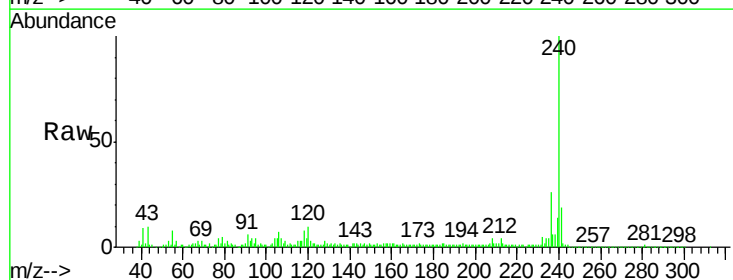
Tgt Ion:240 Resp: 250247

Ion Ratio Lower Upper

240 100

120 9.5 11.2 16.8#

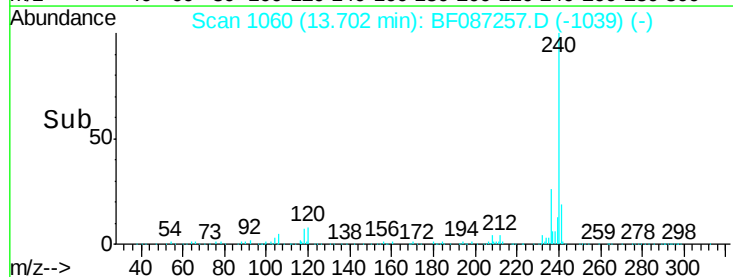
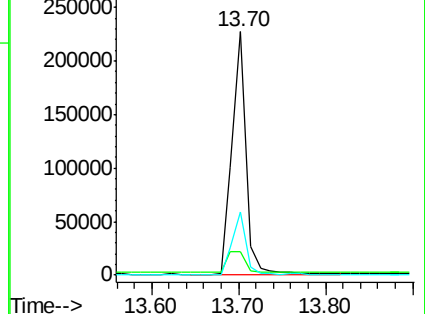
236 26.2 21.2 31.8

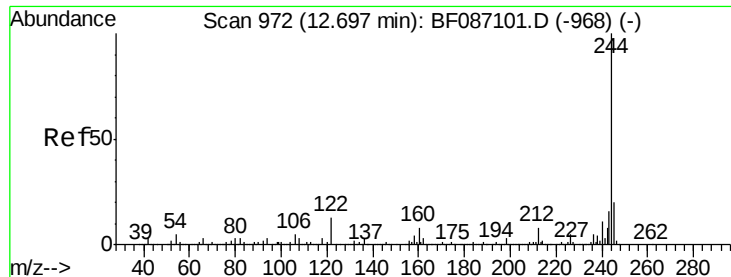


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 86.43 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.06 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

Instrument :

BNA\_F

ClientSampleId :

RAV-MW-11

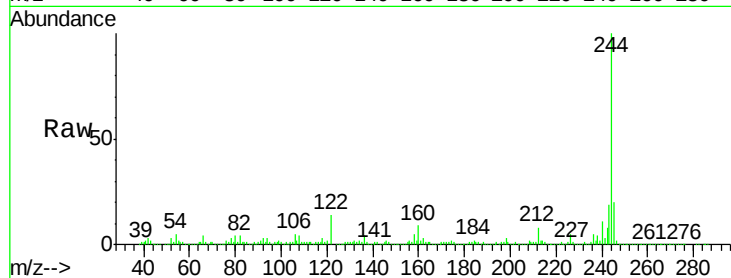
Tot Ion:244 Resp: 956115

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

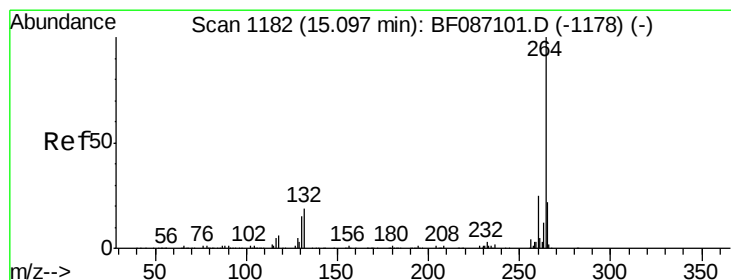
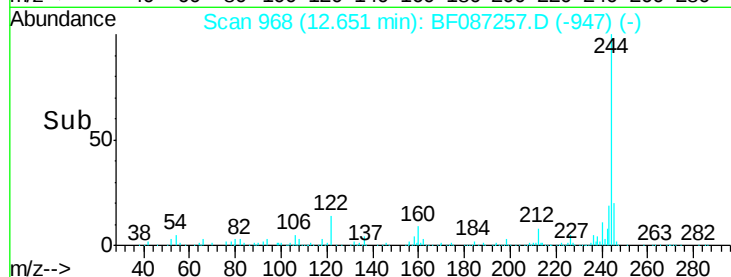
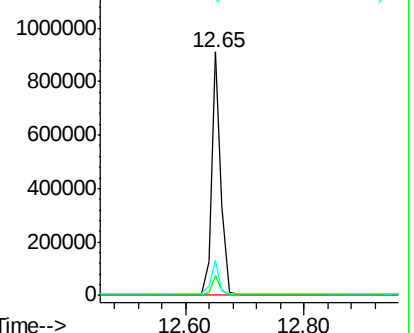
122 14.4 12.0 18.0



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: 15.05 min Scan# 1178

Delta R.T. -0.06 min

Lab File: BF087257.D

Acq: 21 May 2016 7:41

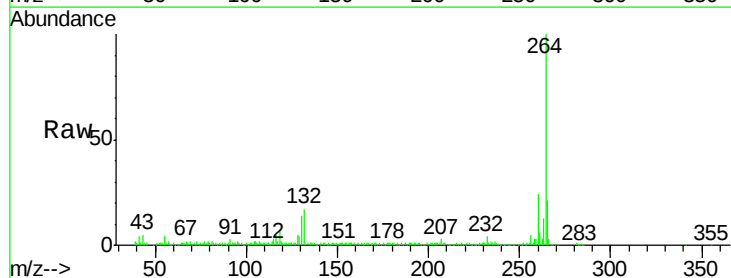
Tgt Ion:264 Resp: 221691

Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

265 21.1 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

