

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062416\  
 Data File : BF088354.D  
 Acq On : 25 Jun 2016 2:09  
 Operator : UM/SJ  
 Sample : H3644-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CF-1

Quant Time: Jun 25 03:44:08 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 22 14:55:14 2016  
 Response via : Initial Calibration

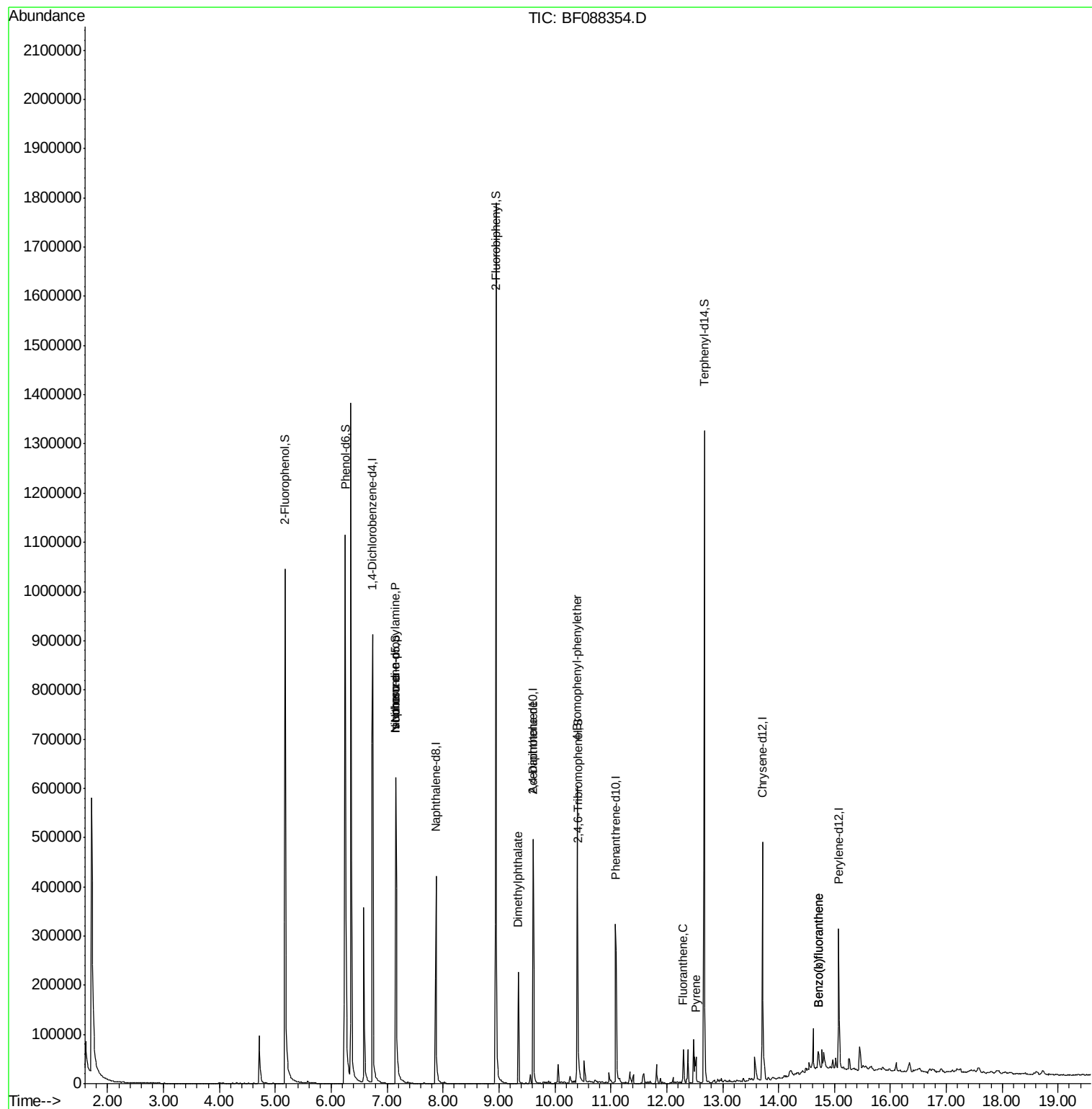
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 226822   | 20.00     | ng    | 0.14     |
| 21) Naphthalene-d8             | 7.87  | 136  | 288557   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.61  | 164  | 121547   | 20.00     | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.09 | 188  | 191140   | 20.00     | ng    | -0.03    |
| 75) Chrysene-d12               | 13.71 | 240  | 165072   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12               | 15.07 | 264  | 122546   | 20.00     | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.18  | 112  | 458534   | 34.56     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.25  | 99   | 554713   | 34.50     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.15  | 82   | 326636   | 66.10     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.41 | 330  | 103138   | 80.36     | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.95  | 172  | 625096   | 80.50     | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.67 | 244  | 445386   | 61.40     | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 10) Phenol                     | 6.35  | 94   | 796      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.15  | 70   | 40852    | 3.97 ng   | #     | 72       |
| 25) Isophorone                 | 7.15  | 82   | 328808   | 35.92 ng  | #     | 65       |
| 45) 1,1'-Biphenyl              | 8.95  | 154  | 909      | Below Cal | #     | 1        |
| 49) Dimethylphthalate          | 9.35  | 163  | 98158    | 11.15 ng  |       | 100      |
| 56) 2,4-Dinitrotoluene         | 9.61  | 165  | 15082    | 5.82 ng   | #     | 36       |
| 57) Fluorene                   | 10.17 | 166  | 598      | Below Cal | #     | 91       |
| 66) 4-Bromophenyl-phenylether  | 10.40 | 248  | 6482     | 3.16 ng   | #     | 1        |
| 74) Fluoranthene               | 12.30 | 202  | 31247    | 2.95 ng   |       | 98       |
| 77) Pyrene                     | 12.53 | 202  | 29092    | 2.37 ng   |       | 98       |
| 87) Benzo(b)fluoranthene       | 14.71 | 252  | 26437    | 3.10 ng   | #     | 91       |
| 88) Benzo(k)fluoranthene       | 14.71 | 252  | 26437    | 4.10 ng   | #     | 95       |

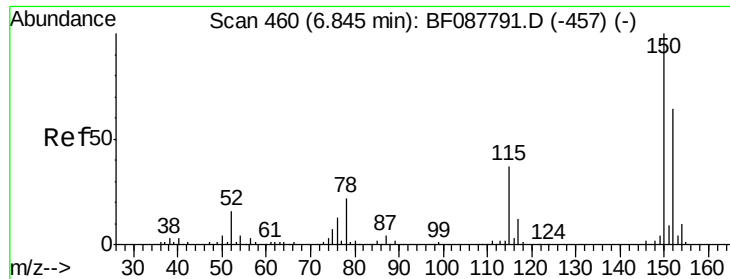
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 451

Delta R.T. 0.14 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Instrument :

BNA\_F

ClientSampleId :

CF-1

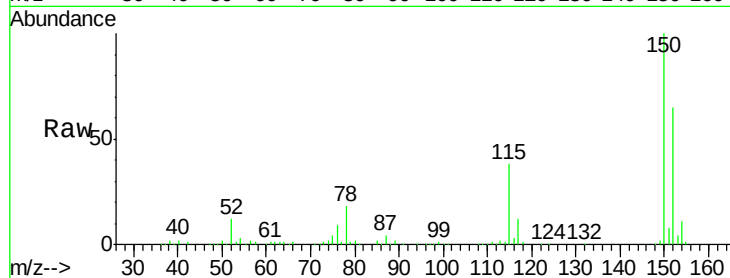
Tgt Ion:152 Resp: 226822

Ion Ratio Lower Upper

152 100

150 154.1 123.8 185.6

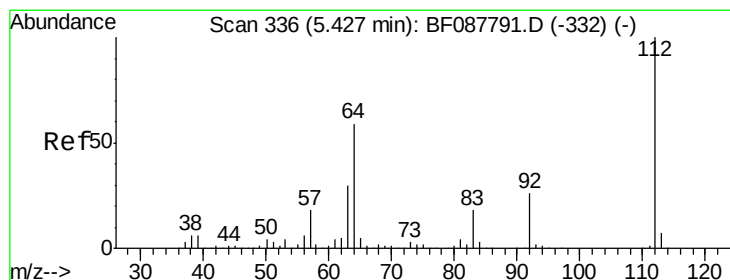
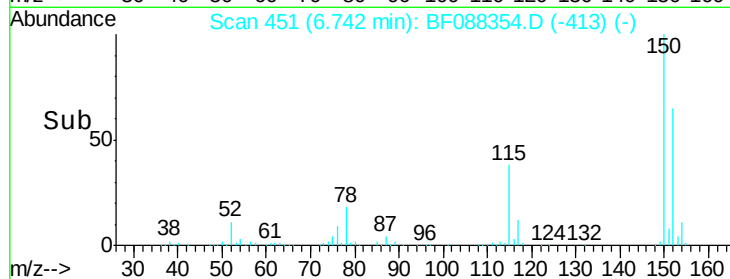
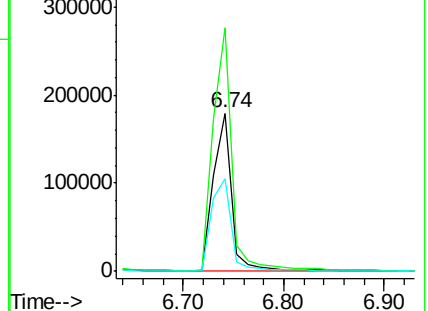
115 58.6 39.6 59.4



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: 34.56 ng

RT: 5.18 min Scan# 314

Delta R.T. 0.00 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

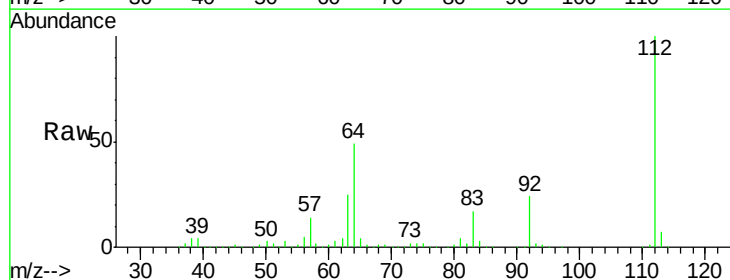
Tgt Ion:112 Resp: 458534

Ion Ratio Lower Upper

112 100

64 48.8 42.2 63.2

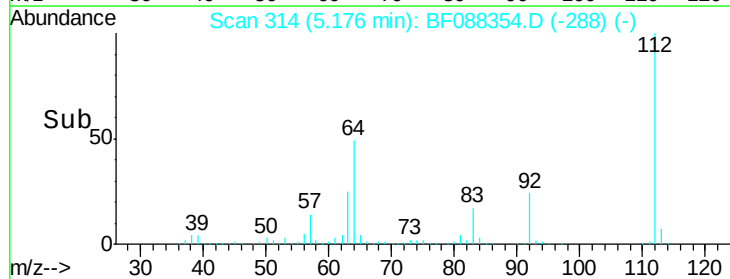
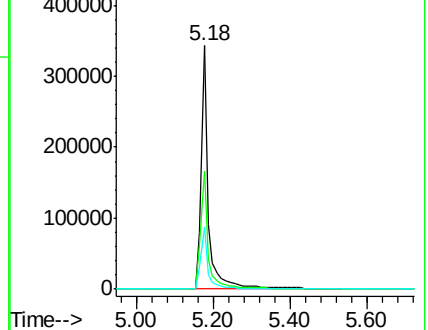
63 25.2 21.8 32.8

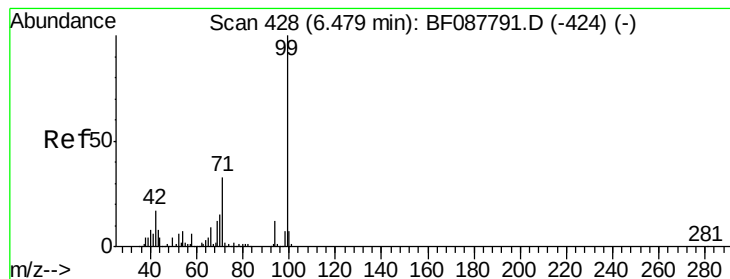


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 34.50 ng

RT: 6.25 min Scan# 408

Delta R.T. -0.01 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Instrument :

BNA\_F

ClientSampleId :

CF-1

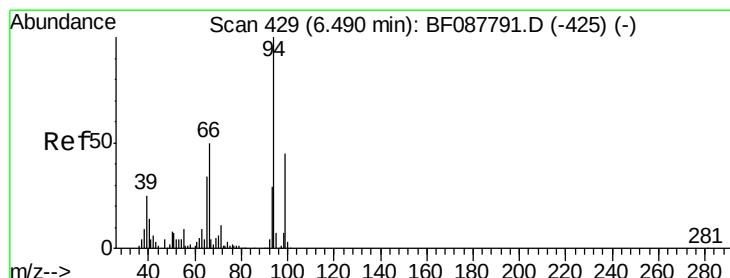
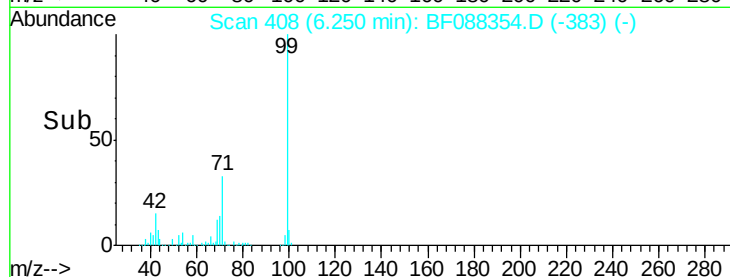
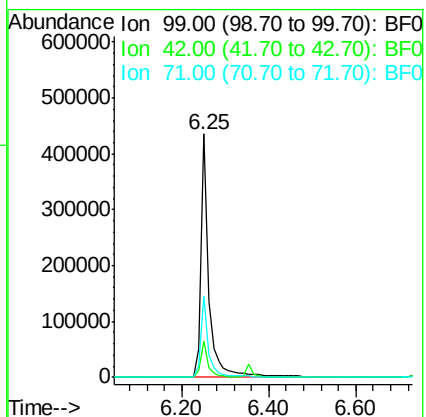
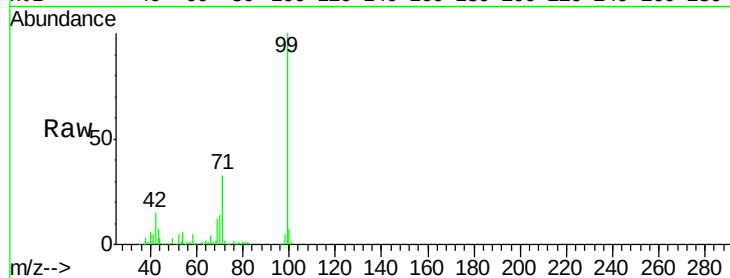
Tgt Ion: 99 Resp: 554713

Ion Ratio Lower Upper

99 100

42 15.0 12.2 18.2

71 33.2 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.35 min Scan# 417

Delta R.T. 0.08 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

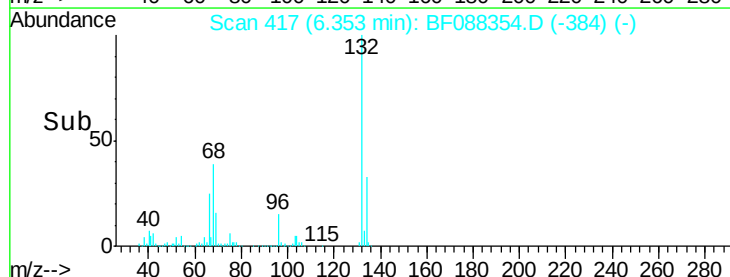
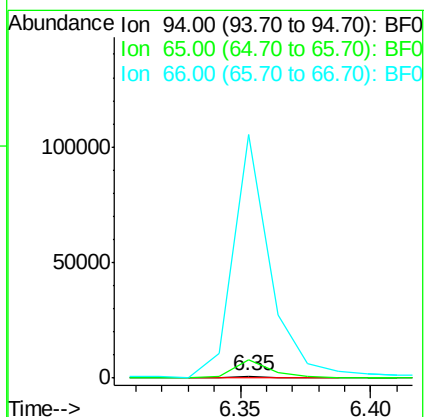
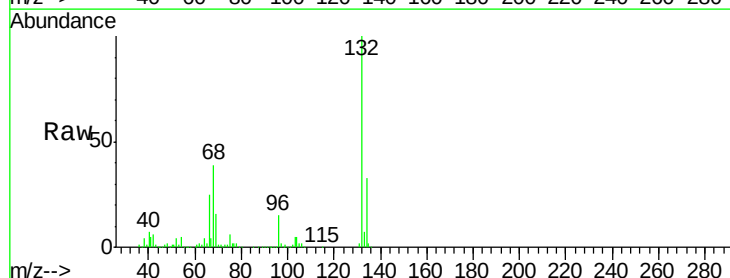
Tgt Ion: 94 Resp: 796

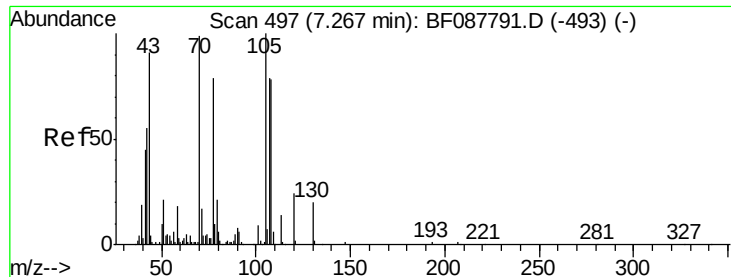
Ion Ratio Lower Upper

94 100

65 952.4 5.9 45.9#

66 12258.9 14.0 54.0#





#19

n-Nitroso-di-n-propylamine

Concen: 3.97 ng

RT: 7.15 min Scan# 487

Delta R.T. 0.11 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Instrument :

BNA\_F

ClientSampleId :

CF-1

Tgt Ion: 70 Resp: 40852

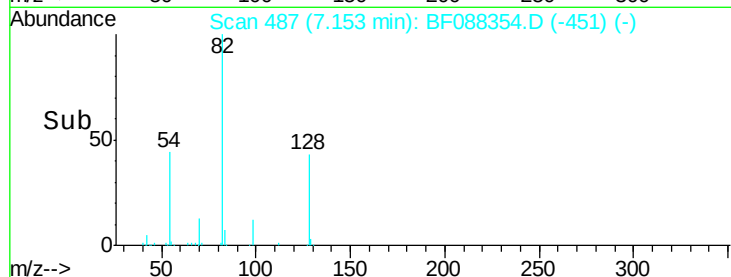
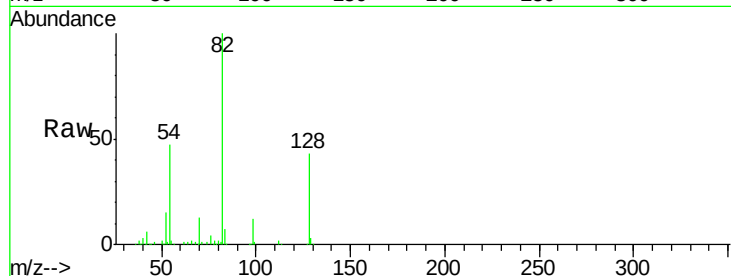
Ion Ratio Lower Upper

70 100

42 42.9 49.6 74.4#

101 0.0 7.1 10.7#

130 2.0 15.4 23.2#

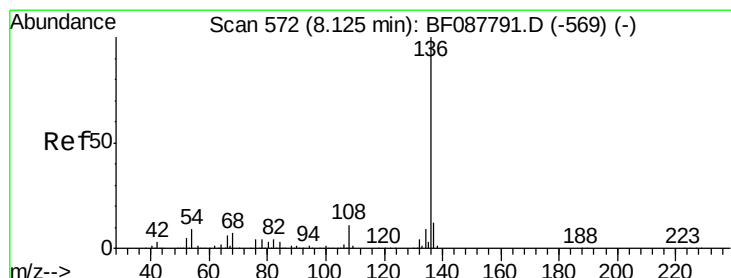
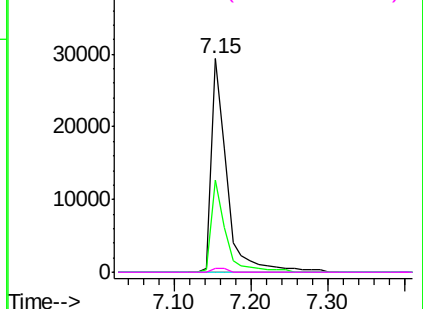


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.87 min Scan# 550

Delta R.T. -0.02 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Tgt Ion: 136 Resp: 288557

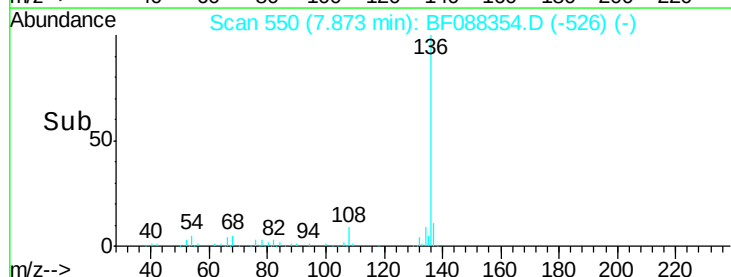
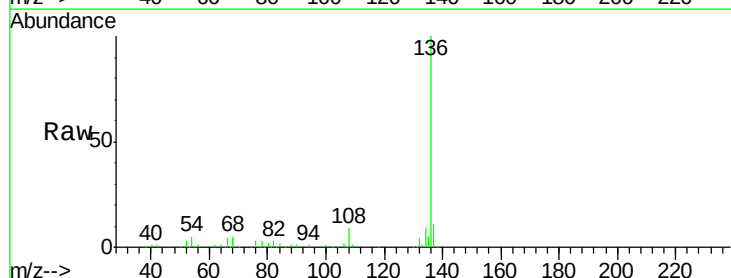
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 5.2 6.6 10.0#

68 4.6 5.1 7.7#

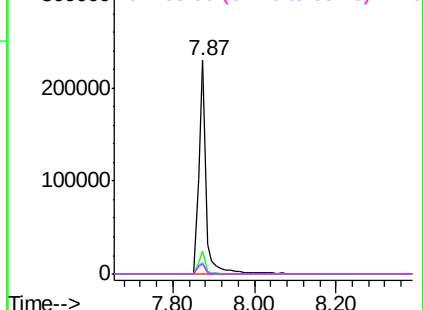


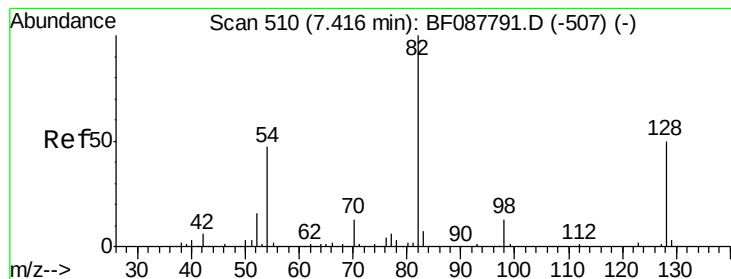
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 66.10 ng

RT: 7.15 min Scan# 487

Delta R.T. -0.02 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Instrument :

BNA\_F

ClientSampled :

CF-1

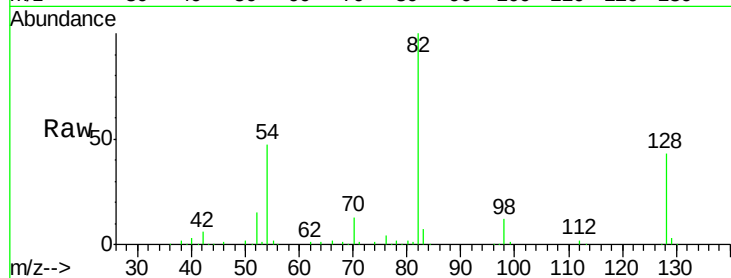
Tgt Ion: 82 Resp: 326636

Ion Ratio Lower Upper

82 100

128 42.8 35.9 53.9

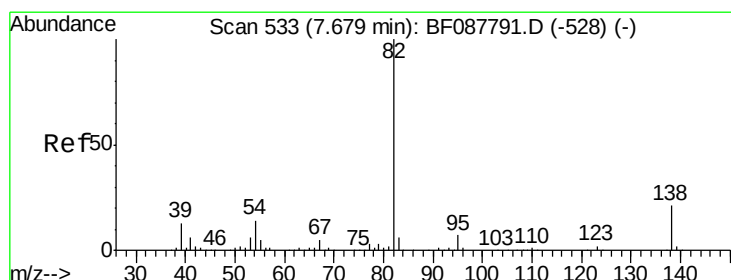
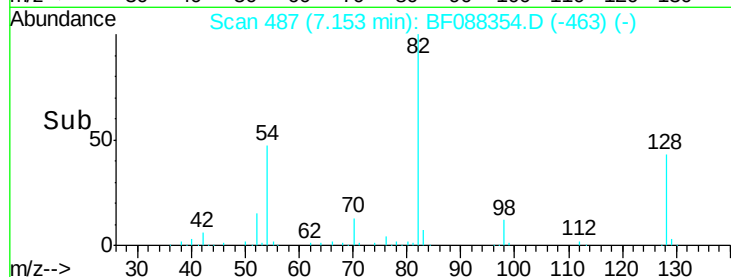
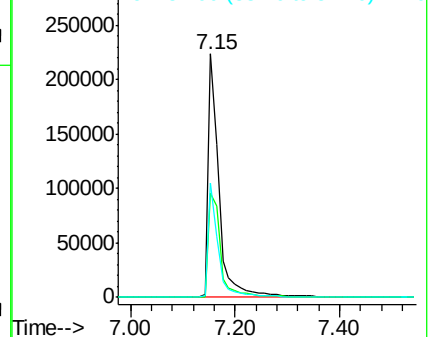
54 47.1 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 35.92 ng

RT: 7.15 min Scan# 487

Delta R.T. -0.29 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

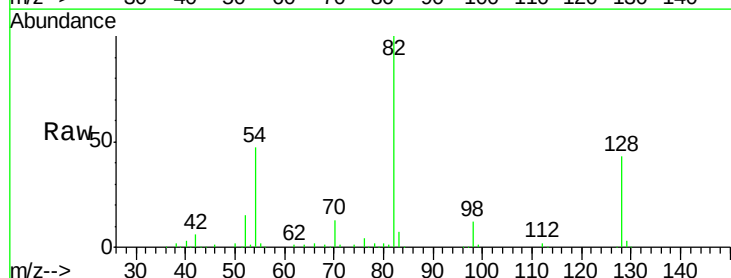
Tgt Ion: 82 Resp: 328808

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

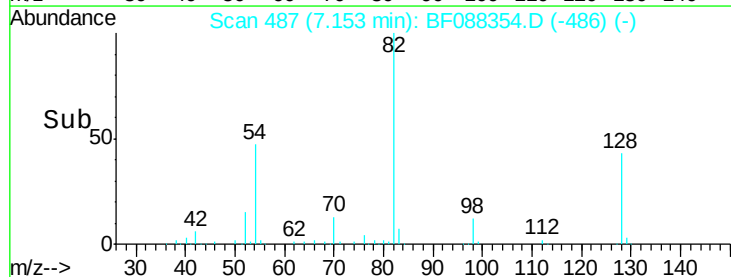
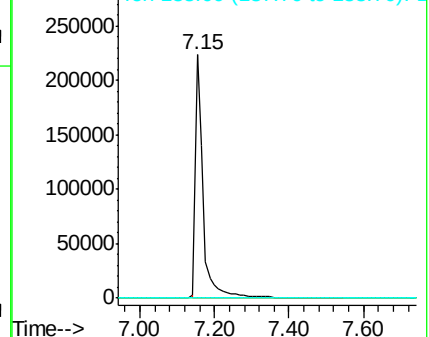
138 0.0 14.6 21.8#

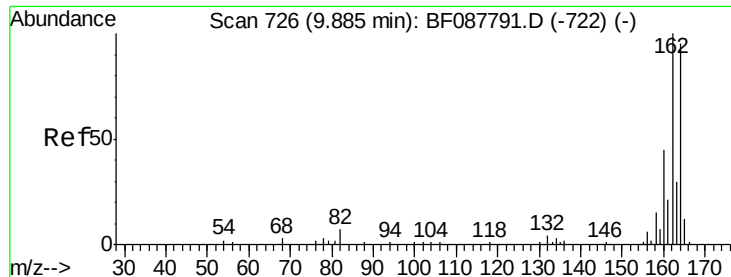


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

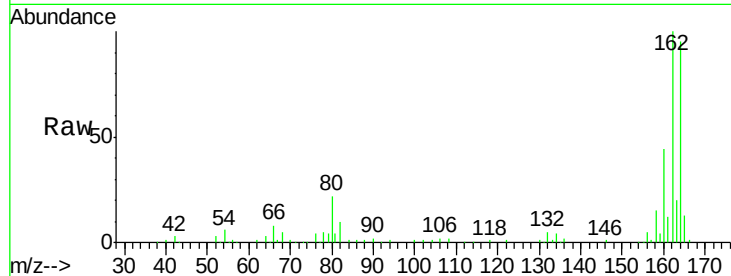




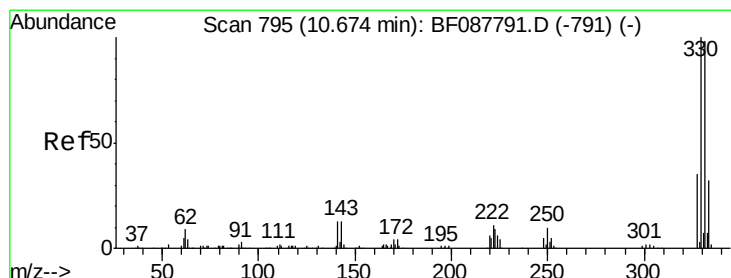
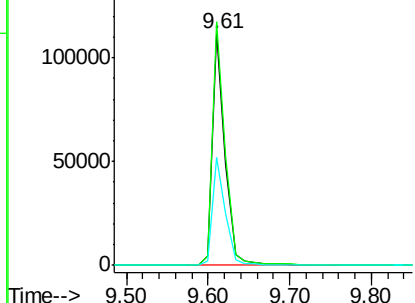
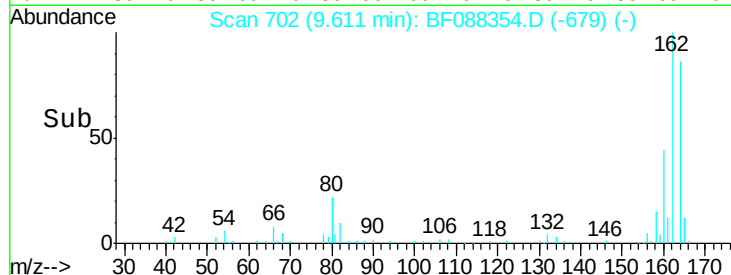
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.61 min Scan# 702  
Delta R.T. -0.03 min  
Lab File: BF088354.D  
Acq: 25 Jun 2016 2:09

Instrument :  
BNA\_F  
ClientSampleId :  
CF-1

Tgt Ion:164 Resp: 121547  
Ion Ratio Lower Upper  
164 100  
162 104.9 85.4 128.2  
160 46.3 39.5 59.3

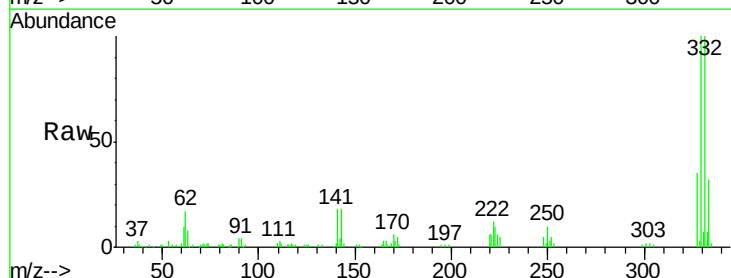


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

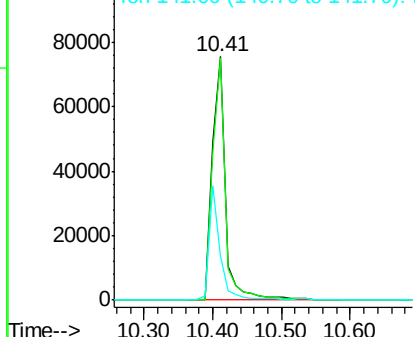
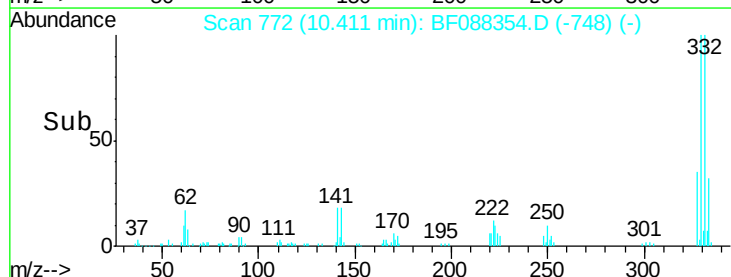


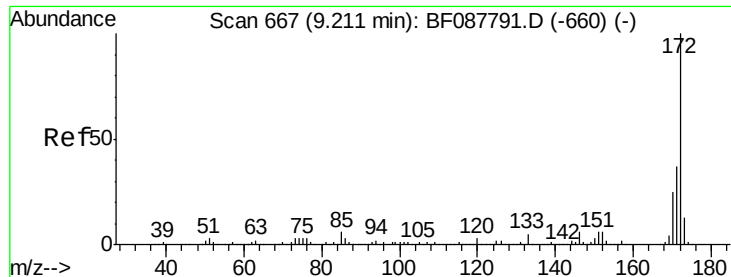
#41  
2,4,6-Tribromophenol  
Concen: 80.36 ng  
RT: 10.41 min Scan# 772  
Delta R.T. -0.02 min  
Lab File: BF088354.D  
Acq: 25 Jun 2016 2:09

Tgt Ion:330 Resp: 103138  
Ion Ratio Lower Upper  
330 100  
332 96.5 0.0 0.0#  
141 38.4 0.0 0.0#



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

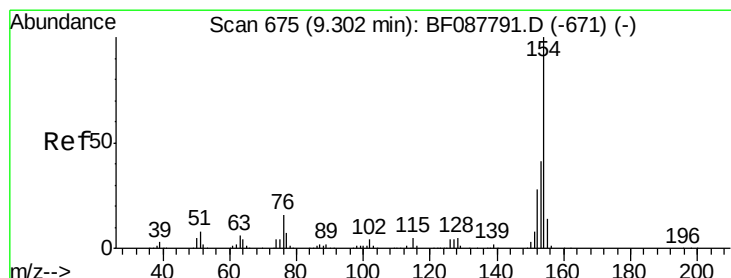
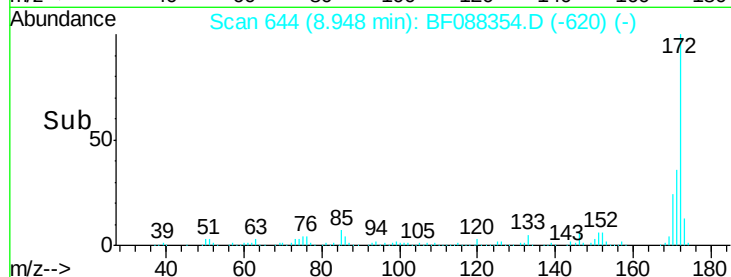
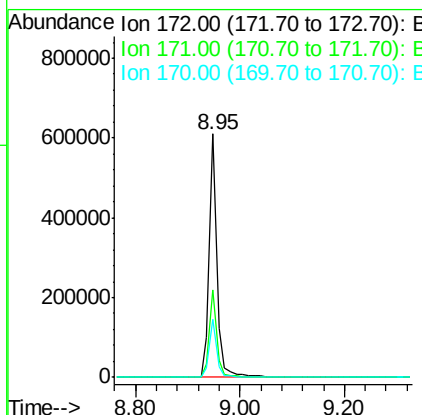
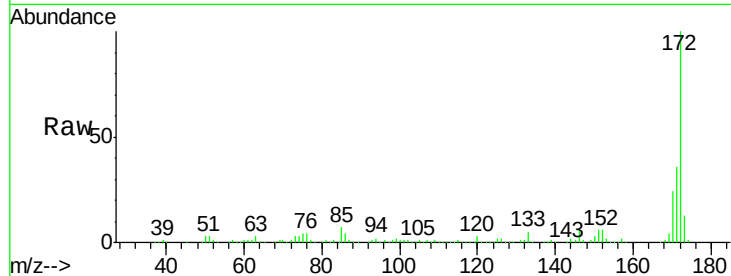




#44  
 2-Fluorobiphenyl  
 Concen: 80.50 ng  
 RT: 8.95 min Scan# 644  
 Delta R.T. -0.02 min  
 Lab File: BF088354.D  
 Acq: 25 Jun 2016 2:09

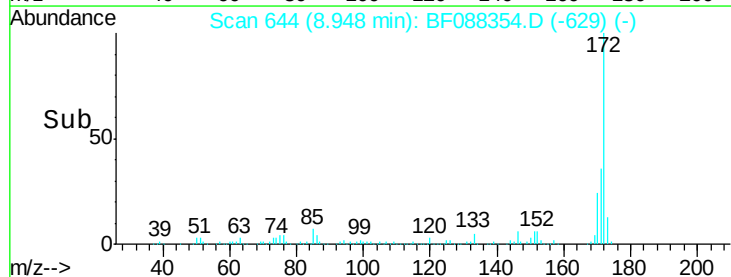
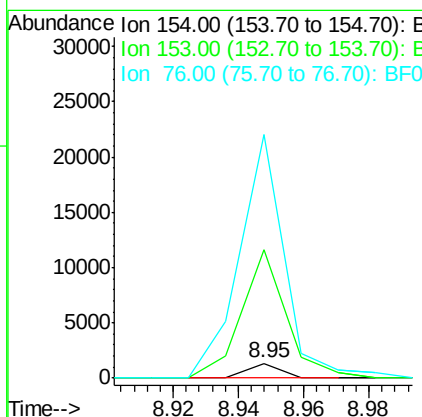
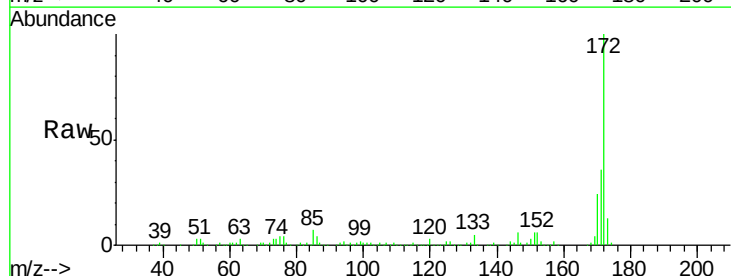
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CF-1

Tgt Ion:172 Resp: 625096  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 28.6 43.0  
 170 23.9 19.2 28.8

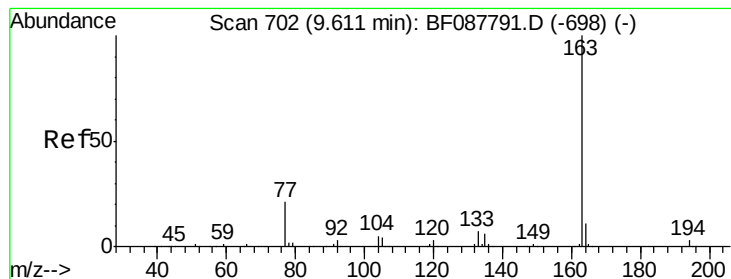


#45  
 1,1'-Biphenyl  
 Concen: Below Cal  
 RT: 8.95 min Scan# 644  
 Delta R.T. -0.13 min  
 Lab File: BF088354.D  
 Acq: 25 Jun 2016 2:09

Tgt Ion:154 Resp: 909  
 Ion Ratio Lower Upper  
 154 100  
 153 878.3 20.6 60.6#  
 76 1662.2 0.0 35.1#







#49

Dimethylphthalate

Concen: 11.15 ng

RT: 9.35 min Scan# 679

Delta R.T. -0.03 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Instrument :

BNA\_F

ClientSampleId :

CF-1

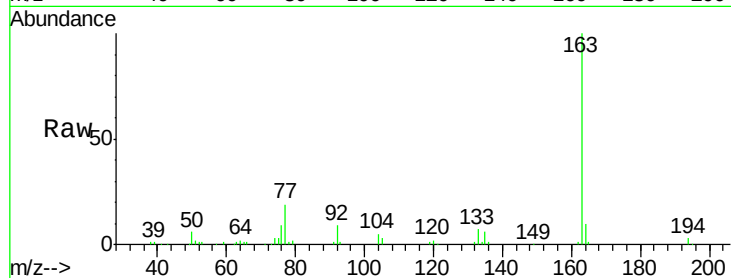
Tgt Ion:163 Resp: 98158

Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

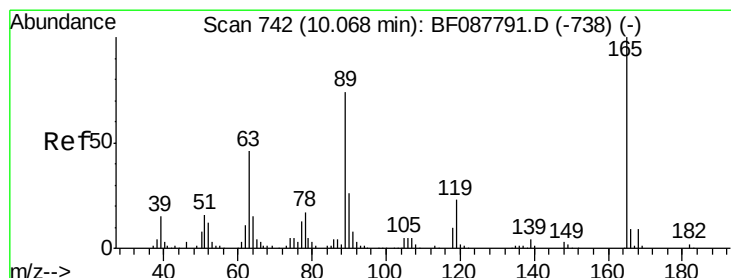
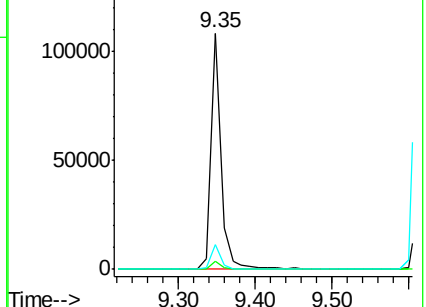
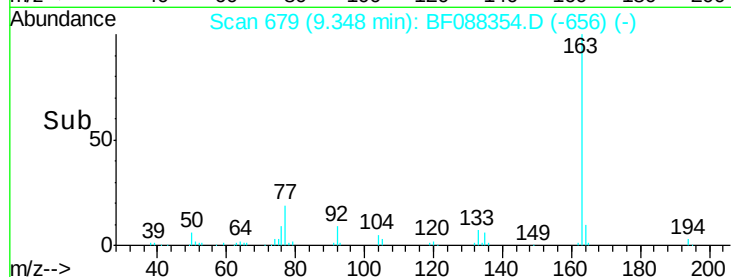
164 10.4 8.3 12.5



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: 5.82 ng

RT: 9.61 min Scan# 702

Delta R.T. -0.24 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Tgt Ion:165 Resp: 15082

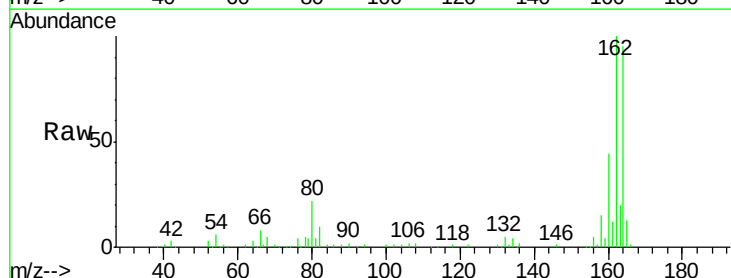
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

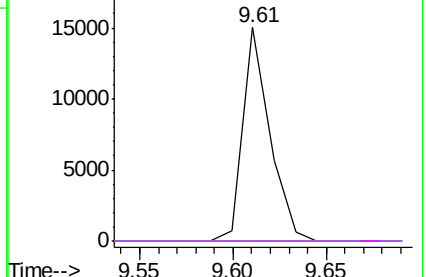
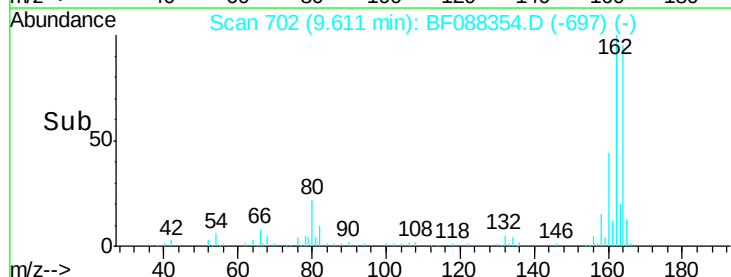


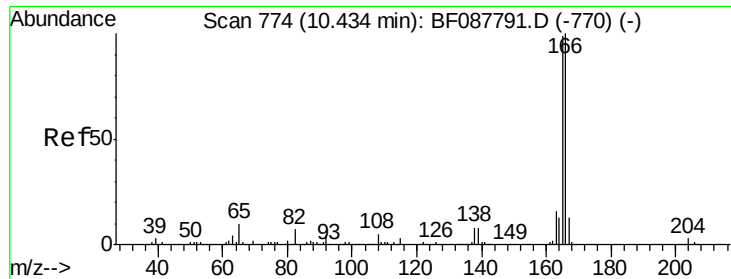
Abundance Ion 165.00 (164.70 to 165.70): E

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





#57

Fluorene

Concen: Below Cal

RT: 10.17 min Scan# 751

Delta R.T. -0.02 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Instrument :

BNA\_F

ClientSampleId :

CF-1

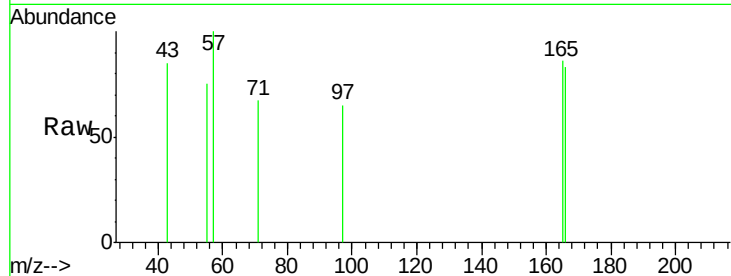
Tgt Ion:166 Resp: 598

Ion Ratio Lower Upper

166 100

165 102.7 77.8 116.8

167 0.0 11.2 16.8#



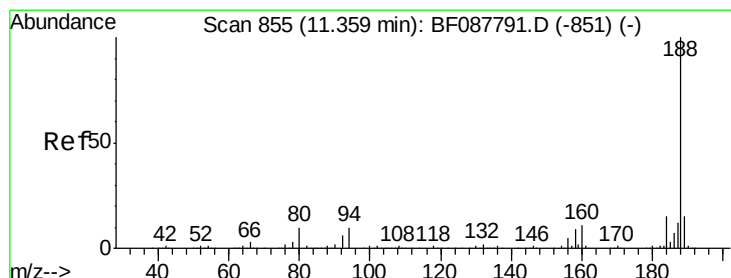
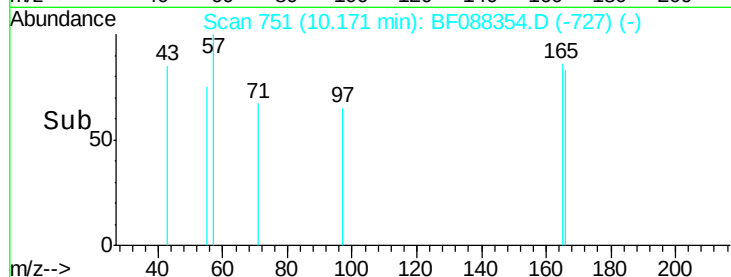
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

10.17

Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.09 min Scan# 831

Delta R.T. -0.03 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

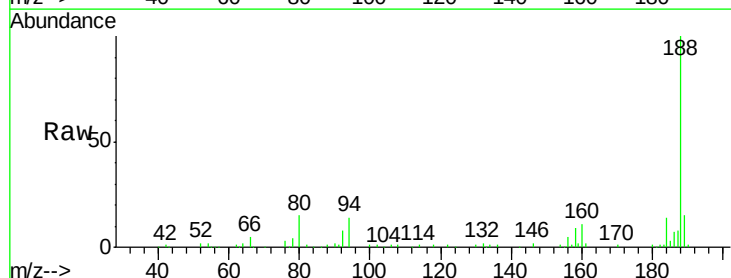
Tgt Ion:188 Resp: 191140

Ion Ratio Lower Upper

188 100

94 14.0 9.0 13.6#

80 15.2 10.0 15.0#



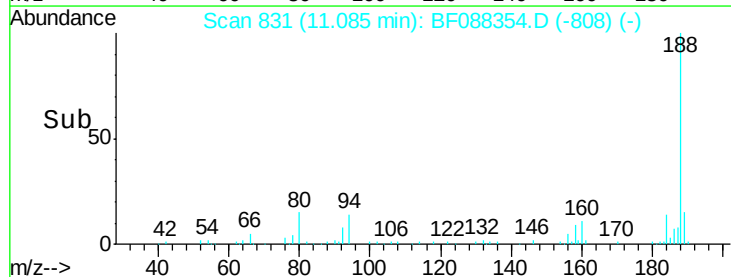
Abundance Ion 188.00 (187.70 to 188.70): E

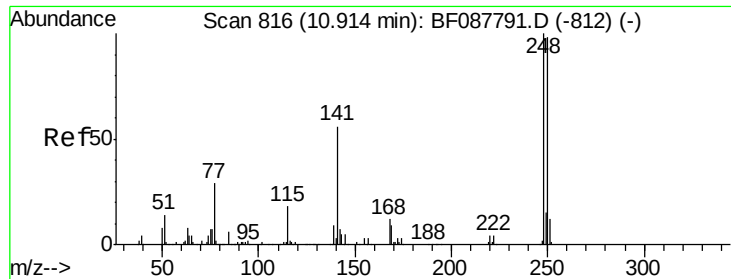
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

11.09

Time-->

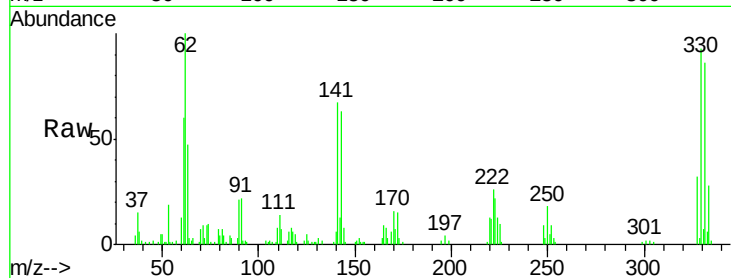




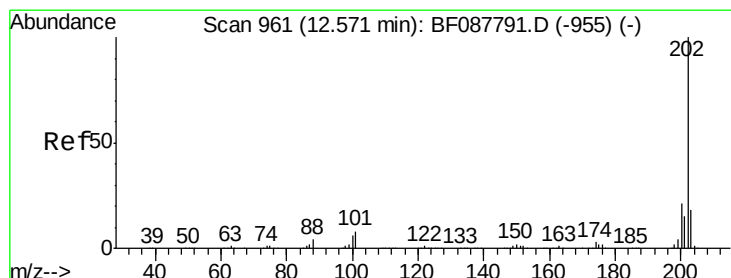
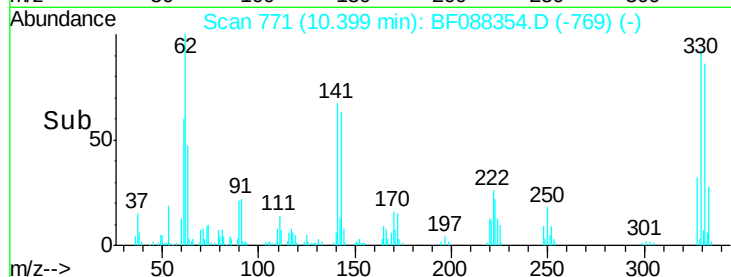
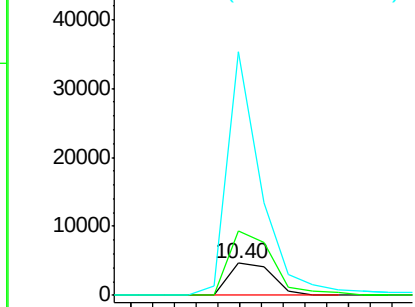
#66  
4-Bromophenyl-phenylether  
Concen: 3.16 ng  
RT: 10.40 min Scan# 771  
Delta R.T. -0.27 min  
Lab File: BF088354.D  
Acq: 25 Jun 2016 2:09

Instrument :  
BNA\_F  
ClientSampleId :  
CF-1

Tgt Ion: 248 Resp: 6482  
Ion Ratio Lower Upper  
248 100  
250 200.6 77.1 115.7#  
141 758.1 50.6 76.0#

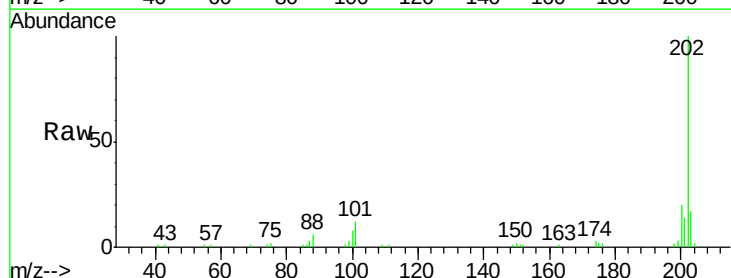


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

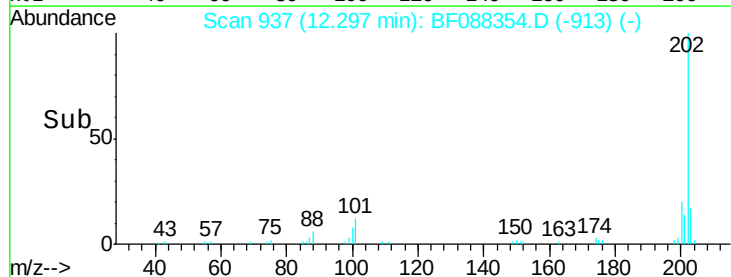
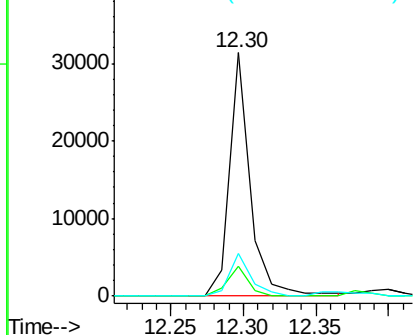


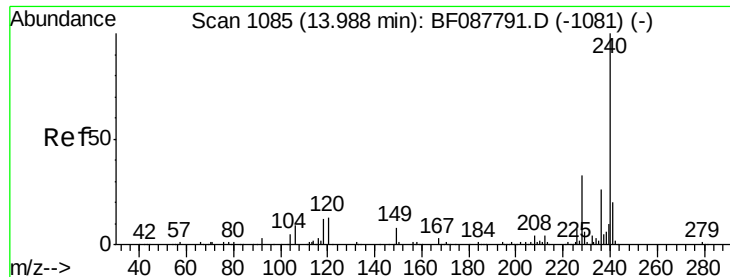
#74  
Fluoranthene  
Concen: 2.95 ng  
RT: 12.30 min Scan# 937  
Delta R.T. -0.02 min  
Lab File: BF088354.D  
Acq: 25 Jun 2016 2:09

Tgt Ion: 202 Resp: 31247  
Ion Ratio Lower Upper  
202 100  
101 12.0 0.0 33.1  
203 17.3 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: 13.71 min Scan# 1061

Delta R.T. -0.03 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

Instrument :

BNA\_F

ClientSampleId :

CF-1

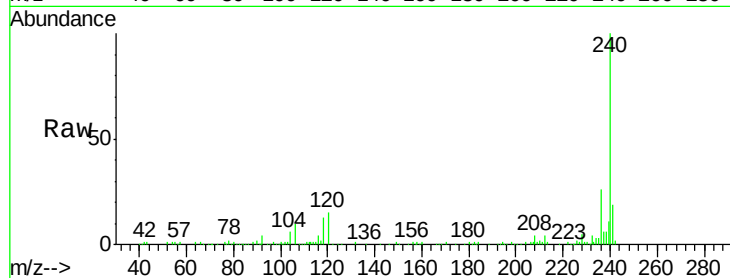
Tgt Ion:240 Resp: 165072

Ion Ratio Lower Upper

240 100

120 14.8 6.8 10.2#

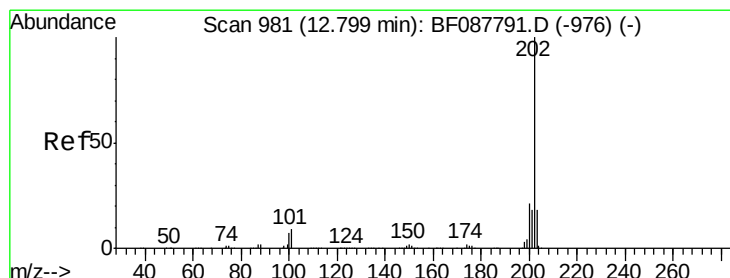
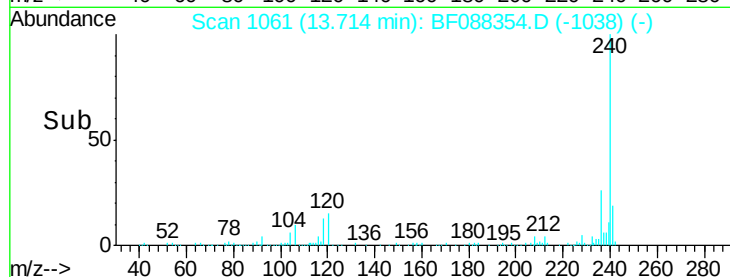
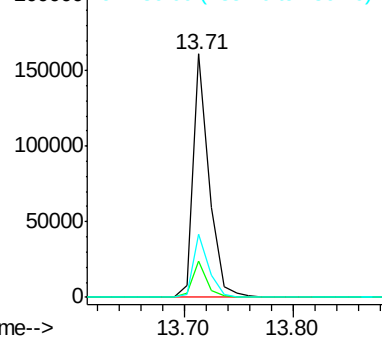
236 25.9 20.2 30.2



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

Pyrene

Concen: 2.37 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.02 min

Lab File: BF088354.D

Acq: 25 Jun 2016 2:09

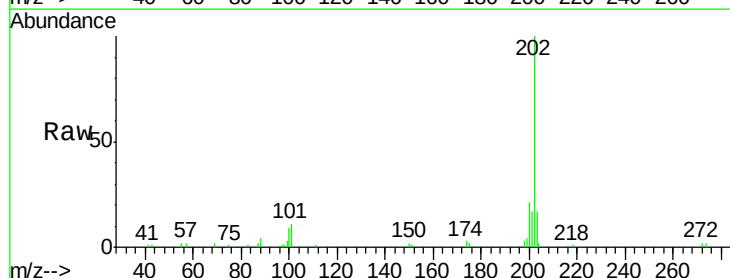
Tgt Ion:202 Resp: 29092

Ion Ratio Lower Upper

202 100

200 20.6 17.4 26.2

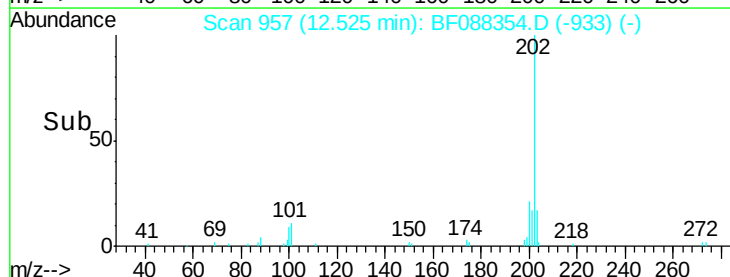
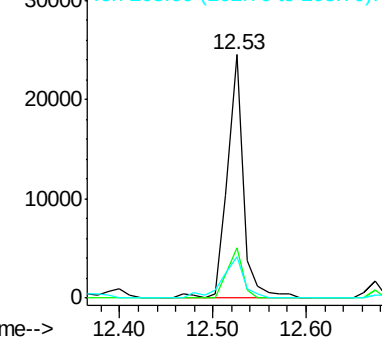
203 17.2 14.5 21.7

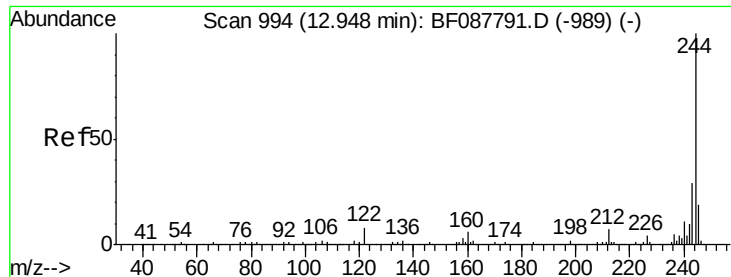


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

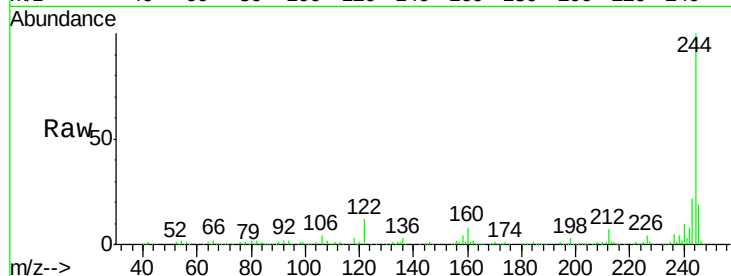




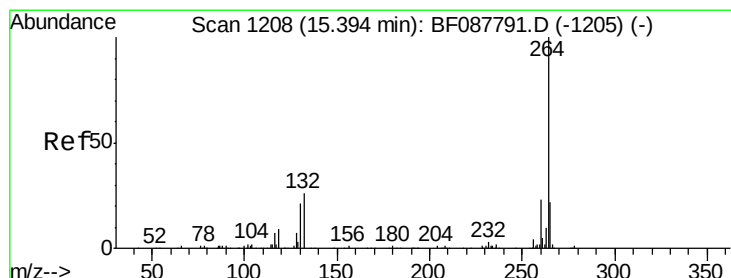
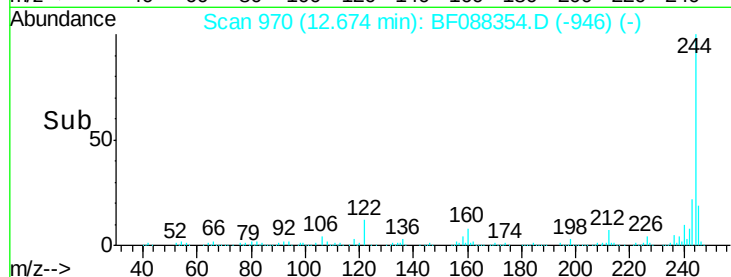
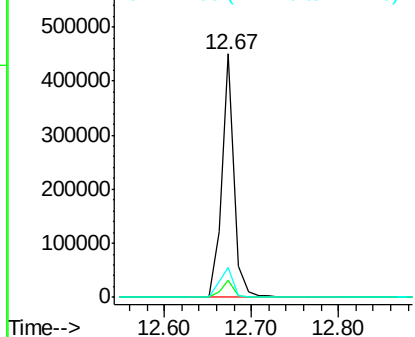
#78  
 Terphenyl-d14  
 Concen: 61.40 ng  
 RT: 12.67 min Scan# 970  
 Delta R.T. -0.02 min  
 Lab File: BF088354.D  
 Acq: 25 Jun 2016 2:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CF-1

Tgt Ion:244 Resp: 445386  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.0 9.0  
 122 12.1 11.2 16.8

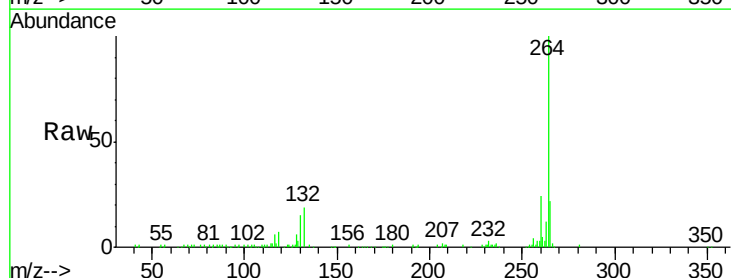


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

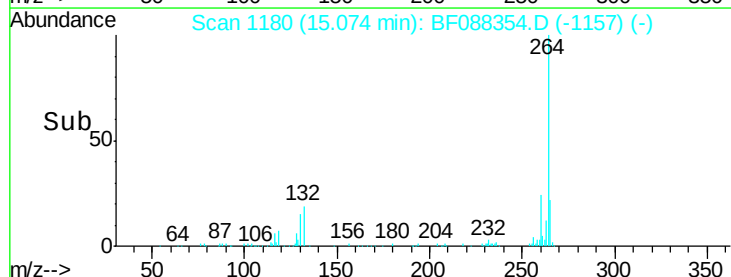
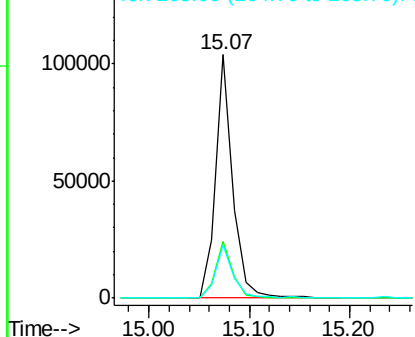


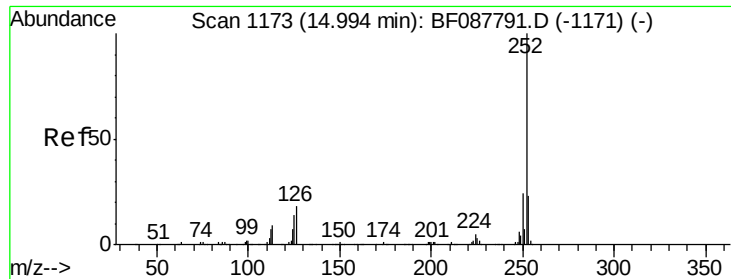
#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.07 min Scan# 1180  
 Delta R.T. -0.03 min  
 Lab File: BF088354.D  
 Acq: 25 Jun 2016 2:09

Tgt Ion:264 Resp: 122546  
 Ion Ratio Lower Upper  
 264 100  
 260 23.5 19.2 28.8  
 265 21.9 16.9 25.3



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

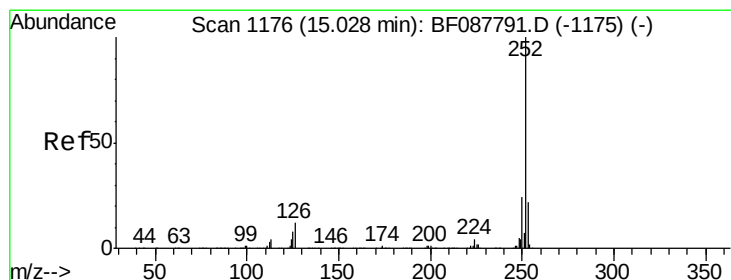
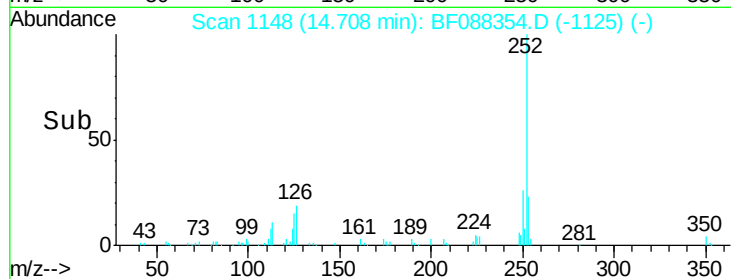
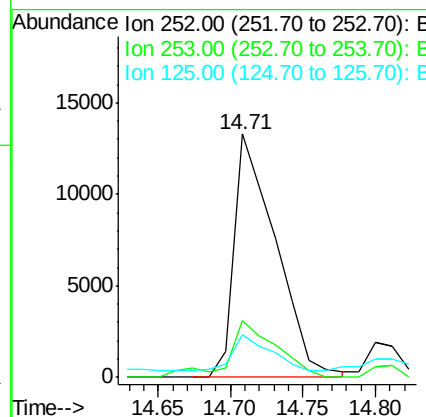
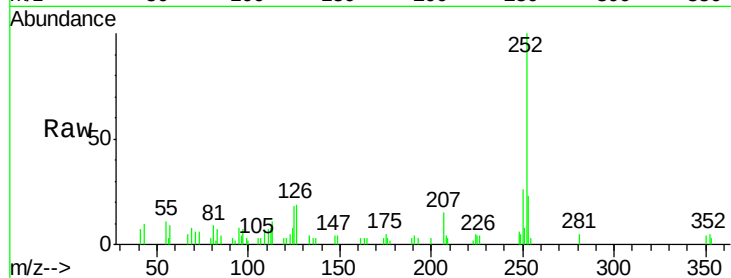




#87  
Benzo(b)fluoranthene  
Concen: 3.10 ng  
RT: 14.71 min Scan# 1148  
Delta R.T. -0.03 min  
Lab File: BF088354.D  
Acq: 25 Jun 2016 2:09

Instrument :  
BNA\_F  
ClientSampleId :  
CF-1

Tgt Ion:252 Resp: 26437  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.4 26.2  
125 17.7 7.1 10.7#



#88  
Benzo(k)fluoranthene  
Concen: 4.10 ng  
RT: 14.71 min Scan# 1148  
Delta R.T. -0.06 min  
Lab File: BF088354.D  
Acq: 25 Jun 2016 2:09

Tgt Ion:252 Resp: 26437  
Ion Ratio Lower Upper  
252 100  
253 23.4 18.0 27.0  
125 17.7 11.2 16.8#

