

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060816\  
 Data File : BF087822.D  
 Acq On : 8 Jun 2016 21:18  
 Operator : UM/SJ  
 Sample : H3378-12 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-22

Quant Time: Jun 09 02:01:41 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 07 18:51:55 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.82  | 152  | 111619   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.11  | 136  | 472809   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.87  | 164  | 203772   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.36 | 188  | 302874   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.99 | 240  | 258014   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.42 | 264  | 212188   | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |        |       |    |       |
|--------------------------|-------|-----|--------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.42  | 112 | 303778 | 46.53 | ng | -0.01 |
| 7) Phenol-d6             | 6.46  | 99  | 401507 | 50.74 | ng | -0.02 |
| 23) Nitrobenzene-d5      | 7.38  | 82  | 190299 | 23.50 | ng | -0.03 |
| 41) 2,4,6-Tribromophenol | 10.66 | 330 | 72293  | 33.60 | ng | -0.01 |
| 44) 2-Fluorobiphenyl     | 9.19  | 172 | 357098 | 23.52 | ng | -0.02 |
| 78) Terphenyl-d14        | 12.94 | 244 | 229571 | 20.25 | ng | -0.01 |

## Target Compounds

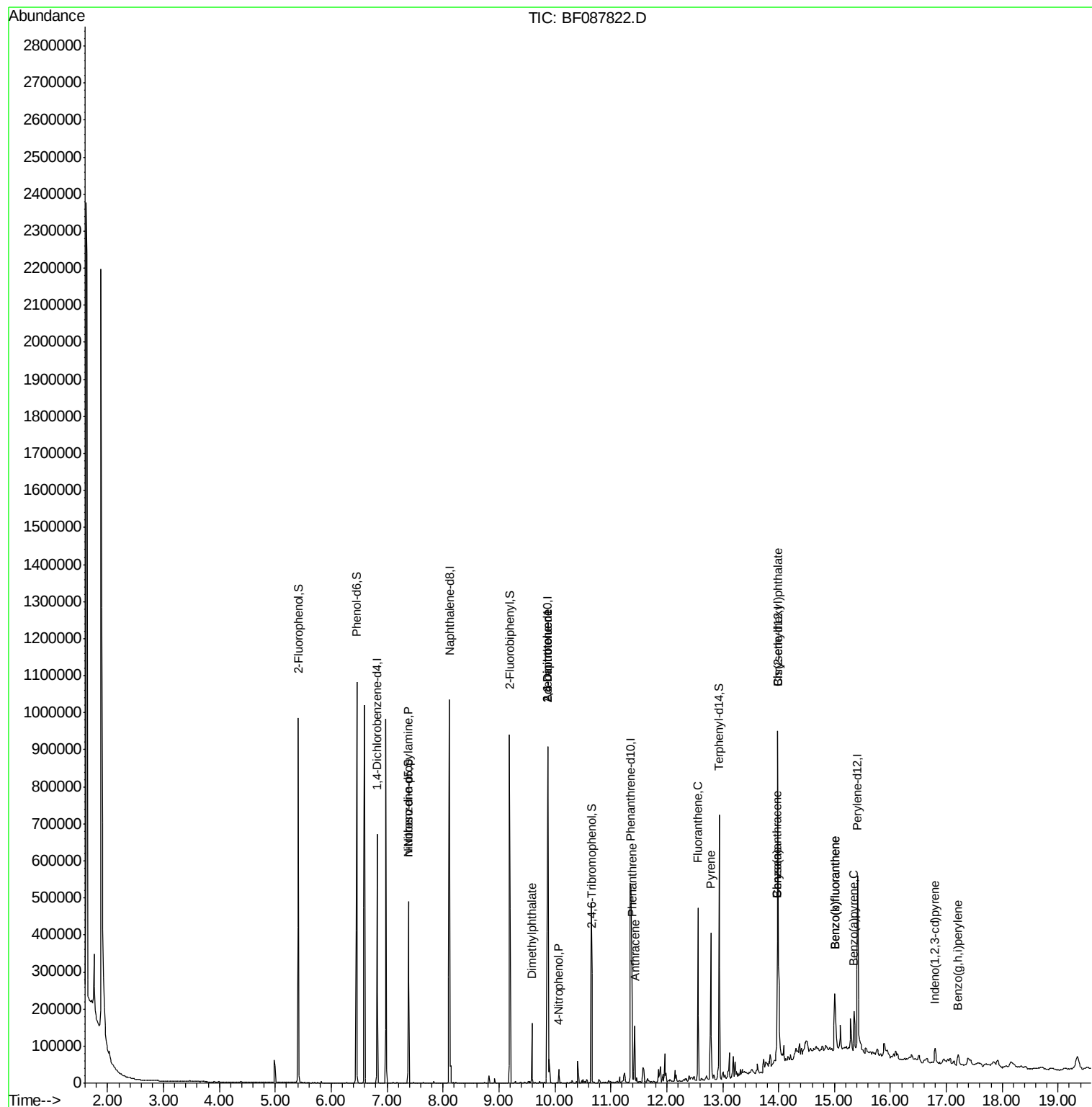
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 10) Phenol                     | 6.47  | 94  | 1073   | Below Cal |   | 80     |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70  | 24012  | 4.74 ng   | # | 78     |
| 45) 1,1'-Biphenyl              | 9.29  | 154 | 2027   | Below Cal |   | 87     |
| 49) Dimethylphthalate          | 9.59  | 163 | 60153  | 4.08 ng   |   | 99     |
| 50) 2,6-Dinitrotoluene         | 9.87  | 165 | 26204  | 7.75 ng   | # | 38     |
| 55) 4-Nitrophenol              | 10.07 | 139 | 6513   | 2.15 ng   | # | 5      |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165 | 26205  | 6.03 ng   | # | 37     |
| 57) Fluorene                   | 10.41 | 166 | 19981  | Below Cal |   | 98     |
| 70) Phenanthrene               | 11.38 | 178 | 190447 | 11.98 ng  |   | 97     |
| 71) Anthracene                 | 11.43 | 178 | 57537  | 3.59 ng   |   | 98     |
| 74) Fluoranthene               | 12.56 | 202 | 198243 | 11.82 ng  |   | 97     |
| 77) Pyrene                     | 12.79 | 202 | 167808 | 8.76 ng   |   | 98     |
| 80) Benzo(a)anthracene         | 13.98 | 228 | 96656  | 6.57 ng   |   | 100    |
| 82) Chrysene                   | 13.98 | 228 | 96656  | 6.99 ng   |   | 95     |
| 83) Bis(2-ethylhexyl)phthalate | 13.99 | 149 | 22776  | 2.21 ng   | # | 91     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.80 | 276 | 28939  | 2.25 ng   | # | 100    |
| 87) Benzo(b)fluoranthene       | 15.01 | 252 | 112824 | 7.63 ng   | # | 95     |
| 88) Benzo(k)fluoranthene       | 15.01 | 252 | 112824 | 10.11 ng  |   | 100    |
| 89) Benzo(a)pyrene             | 15.35 | 252 | 56515  | 4.72 ng   |   | 97     |
| 91) Benzo(g,h,i)perylene       | 17.21 | 276 | 27535  | 2.41 ng   |   | 97     |

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

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060816\  
Data File : BF087822.D  
Acq On : 8 Jun 2016 21:18  
Operator : UM/SJ  
Sample : H3378-12 2X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-22

Quant Time: Jun 09 02:01:41 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 07 18:51:55 2016  
Response via : Initial Calibration

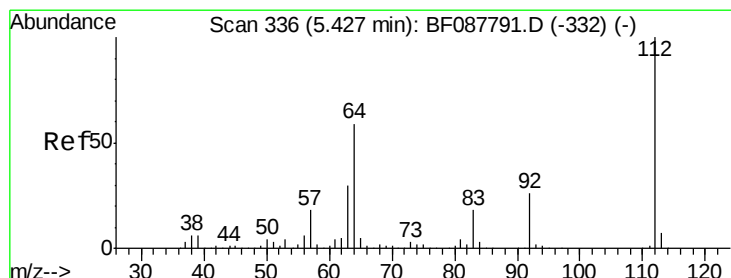
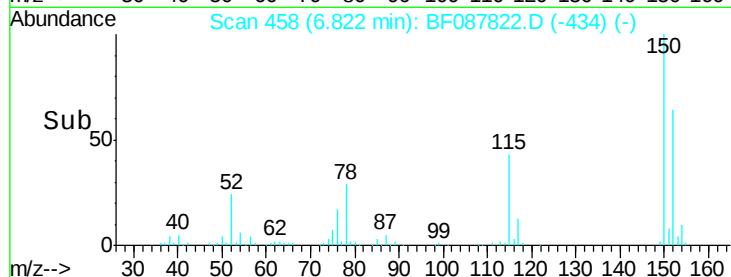
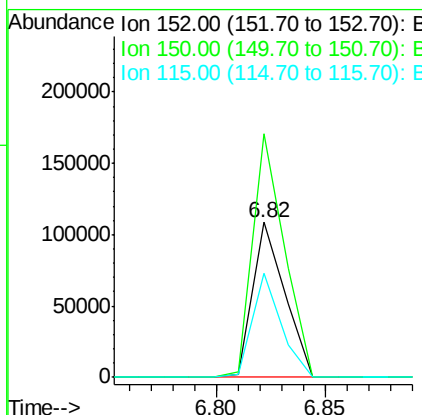
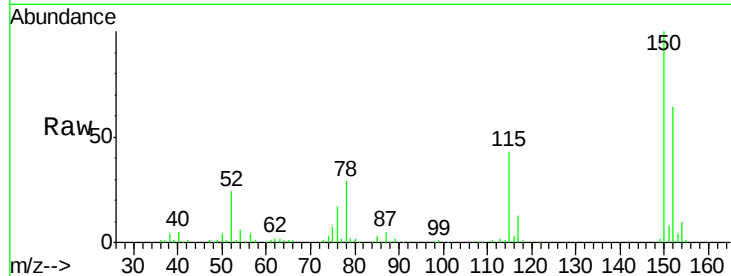




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.82 min Scan# 458  
 Delta R.T. -0.02 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

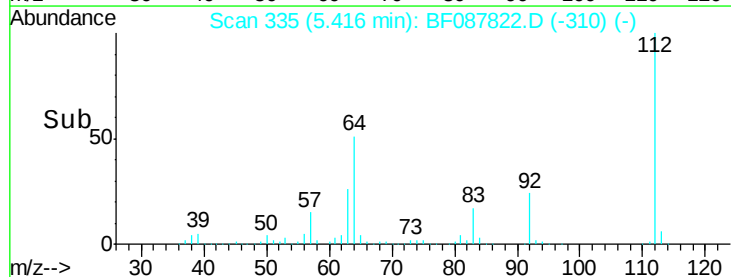
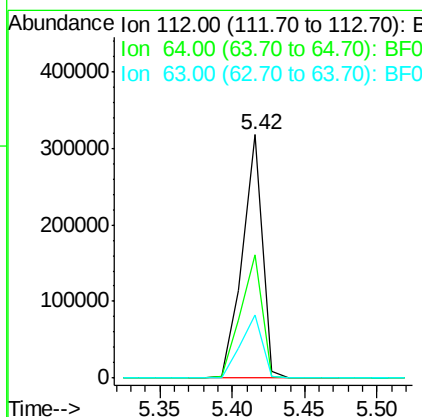
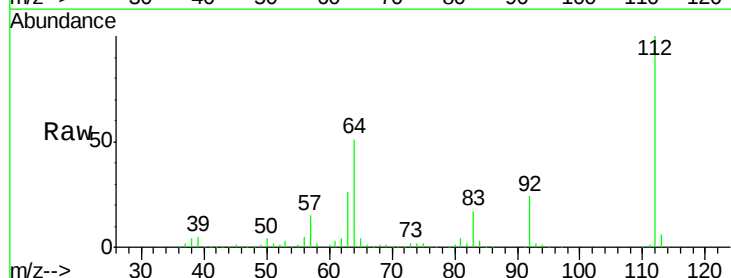
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-22

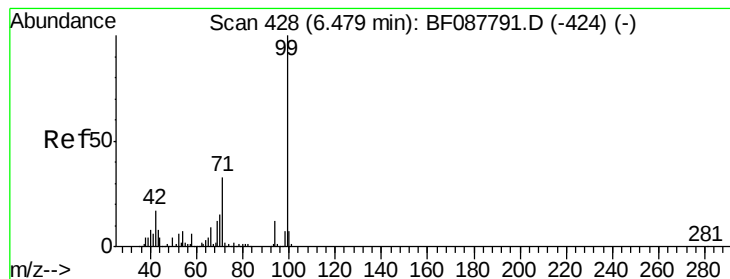
Tgt Ion:152 Resp: 111619  
 Ion Ratio Lower Upper  
 152 100  
 150 156.8 123.8 185.6  
 115 66.8 39.6 59.4#



#5  
 2-Fluorophenol  
 Concen: 46.53 ng  
 RT: 5.42 min Scan# 335  
 Delta R.T. -0.01 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Tgt Ion:112 Resp: 303778  
 Ion Ratio Lower Upper  
 112 100  
 64 50.8 42.2 63.2  
 63 26.0 21.8 32.8





#7

Phenol-d6

Concen: 50.74 ng

RT: 6.46 min Scan# 426

Delta R.T. -0.02 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

Instrument :

BNA\_F

ClientSampled :

SS-22

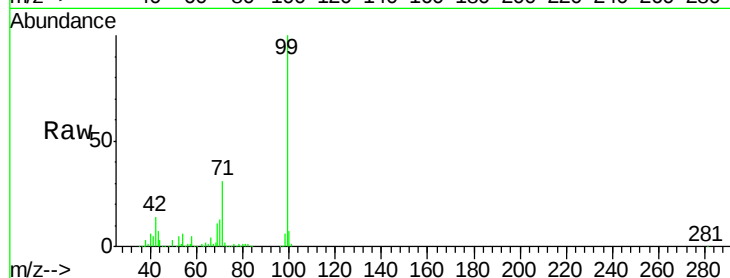
Tgt Ion: 99 Resp: 401507

Ion Ratio Lower Upper

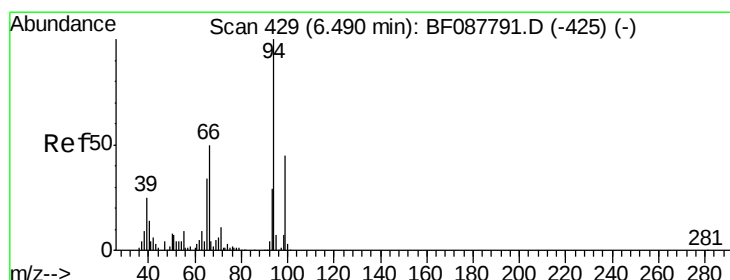
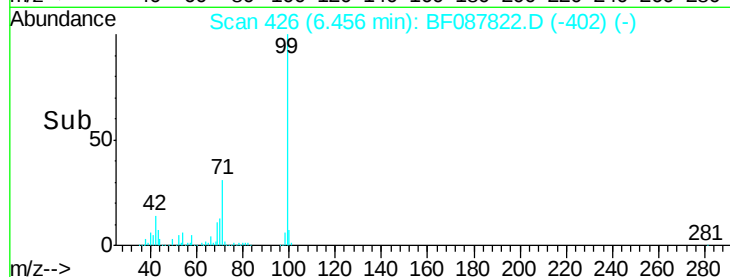
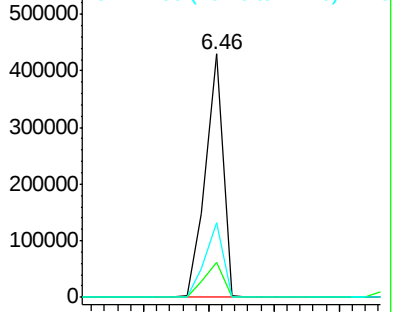
99 100

42 14.5 12.2 18.2

71 30.7 23.4 35.0



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: Below Cal

RT: 6.47 min Scan# 427

Delta R.T. -0.02 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

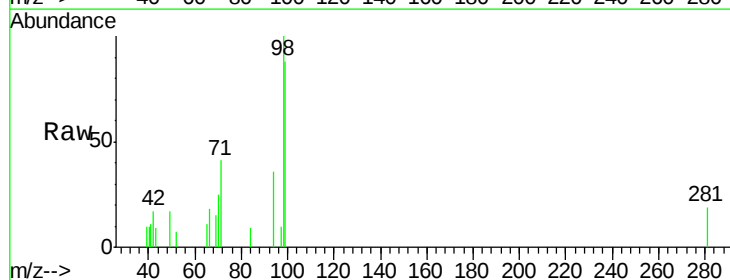
Tgt Ion: 94 Resp: 1073

Ion Ratio Lower Upper

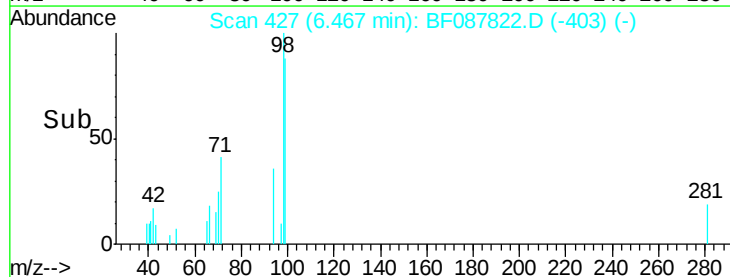
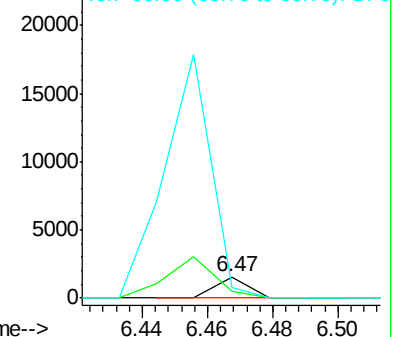
94 100

65 31.3 5.9 45.9

66 49.4 14.0 54.0



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

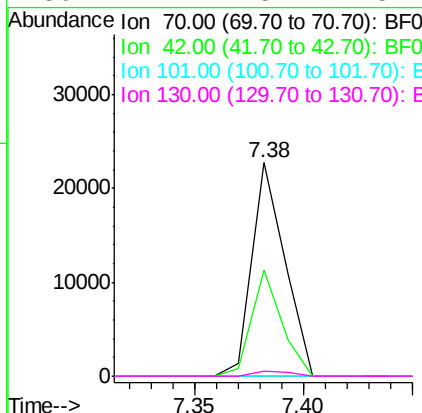
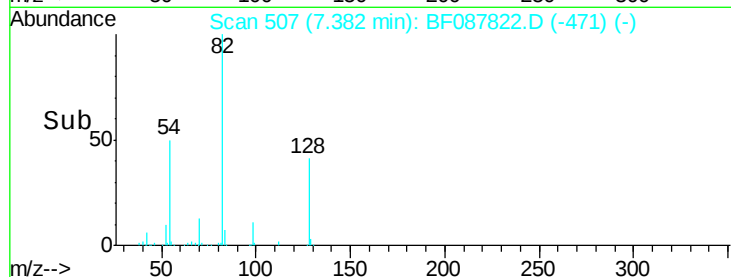
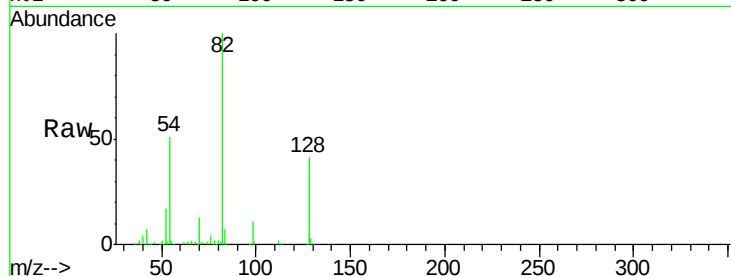




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.74 ng  
RT: 7.38 min Scan# 507  
Delta R.T. 0.11 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

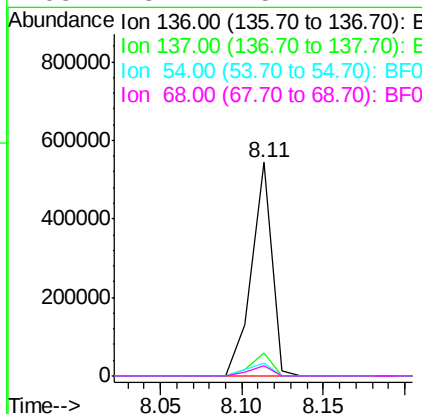
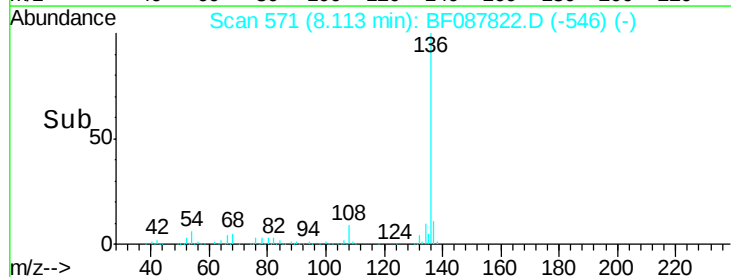
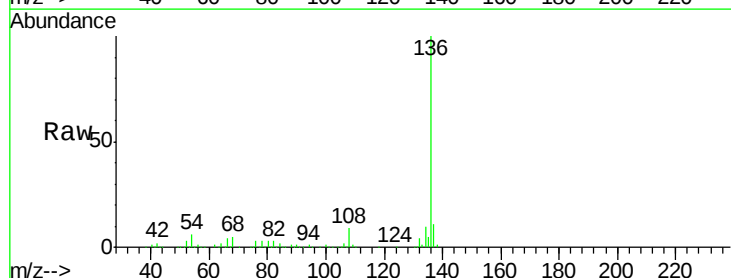
Instrument :  
BNA\_F  
ClientSampleId :  
SS-22

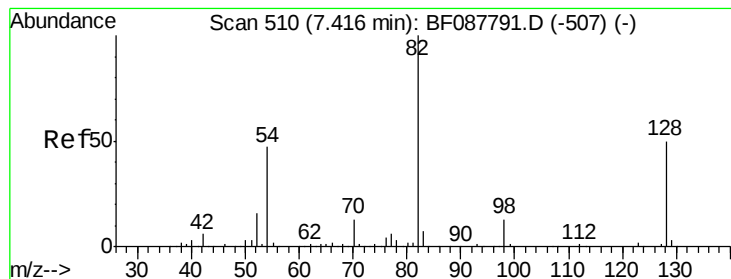
Tgt Ion: 70 Resp: 24012  
Ion Ratio Lower Upper  
70 100  
42 49.5 49.6 74.4#  
101 0.0 7.1 10.7#  
130 2.4 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.11 min Scan# 571  
Delta R.T. -0.01 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

Tgt Ion: 136 Resp: 472809  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.1 13.7  
54 6.2 6.6 10.0#  
68 5.1 5.1 7.7#





#23

Nitrobenzene-d5

Concen: 23.50 ng

RT: 7.38 min Scan# 507

Delta R.T. -0.03 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

Instrument :

BNA\_F

ClientSampled :

SS-22

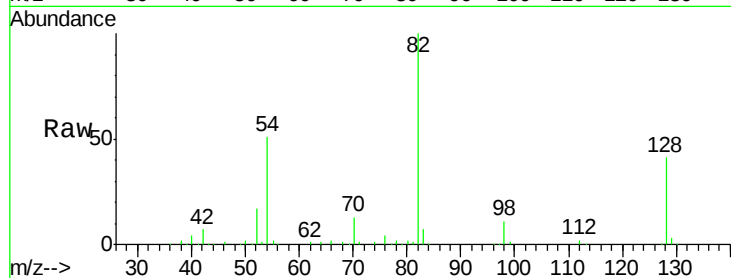
Tgt Ion: 82 Resp: 190299

Ion Ratio Lower Upper

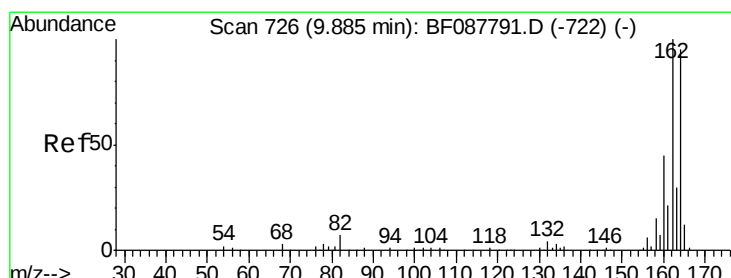
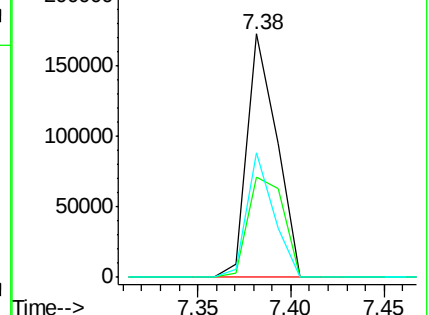
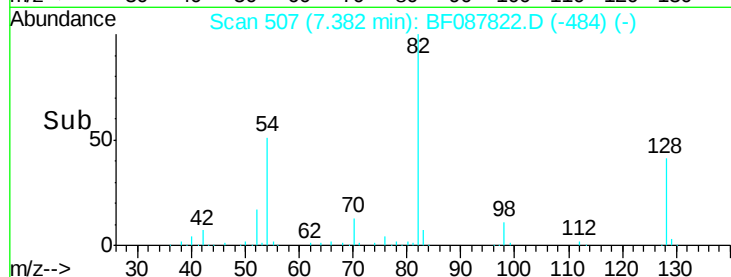
82 100

128 41.0 35.9 53.9

54 51.2 40.9 61.3



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

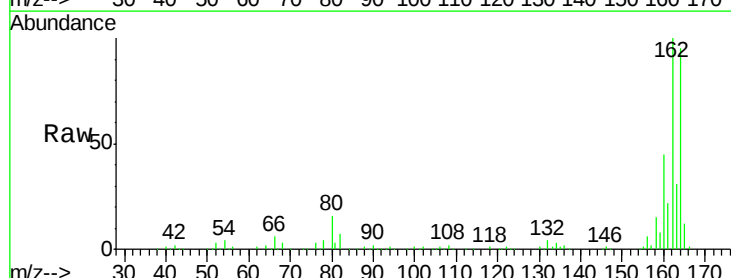
Tgt Ion: 164 Resp: 203772

Ion Ratio Lower Upper

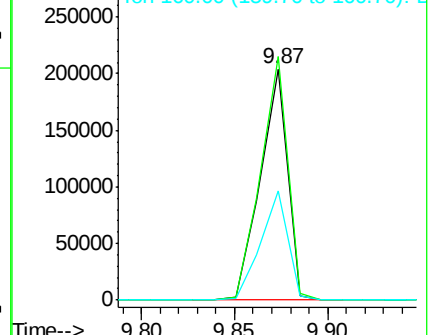
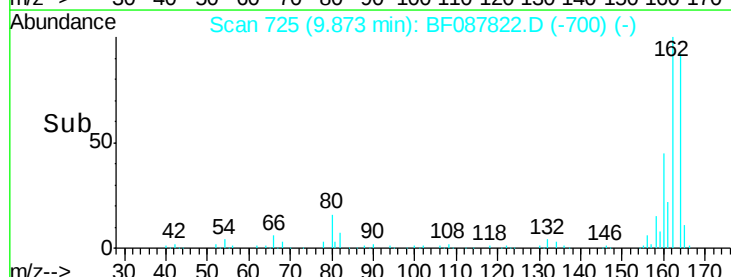
164 100

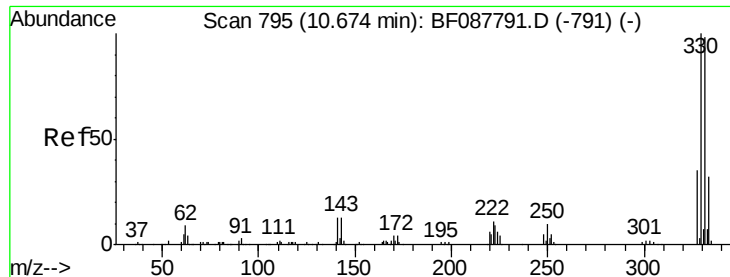
162 105.4 85.4 128.2

160 47.5 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

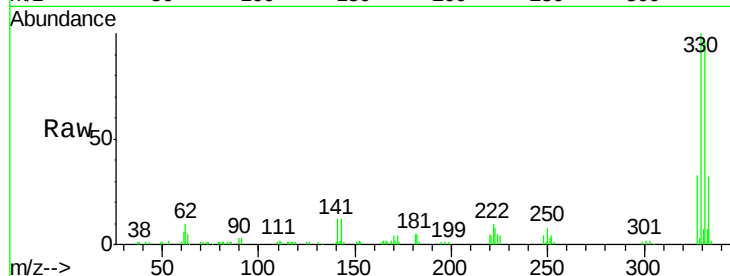




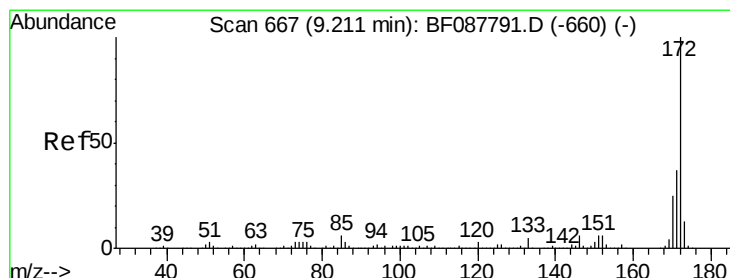
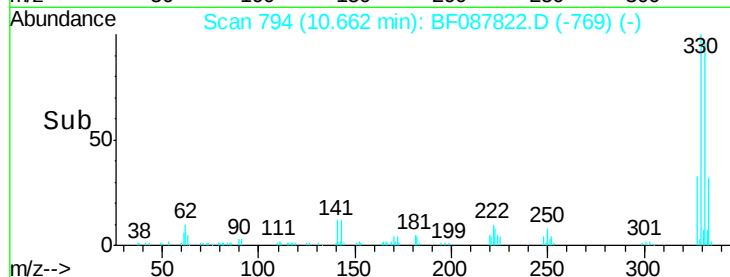
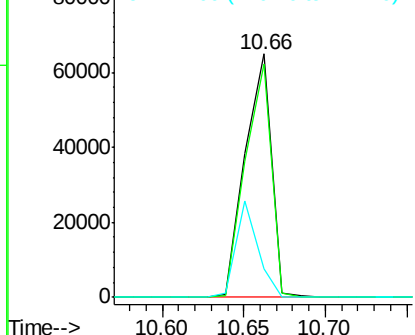
#41  
 2,4,6-Tribromophenol  
 Concen: 33.60 ng  
 RT: 10.66 min Scan# 794  
 Delta R.T. -0.01 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-22

Tgt Ion:330 Resp: 72293  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 0.0 0.0#  
 141 32.8 0.0 0.0#

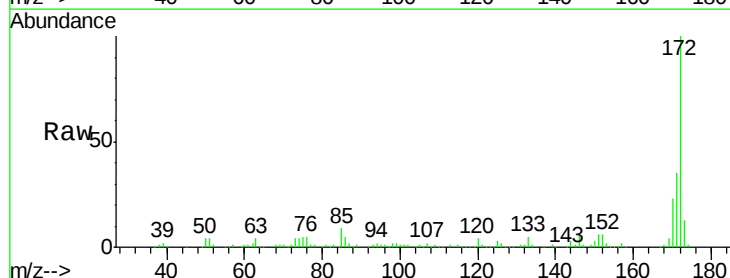


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

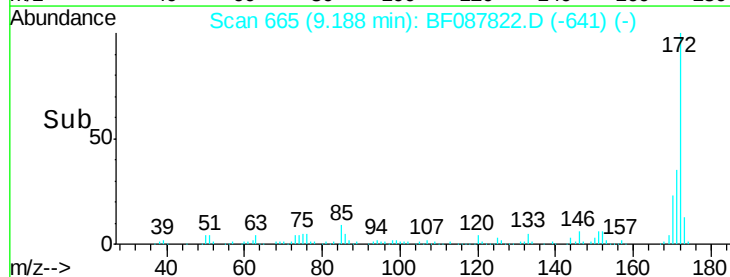
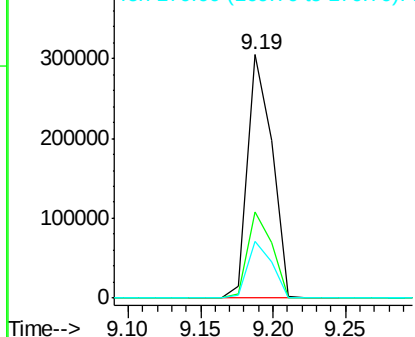


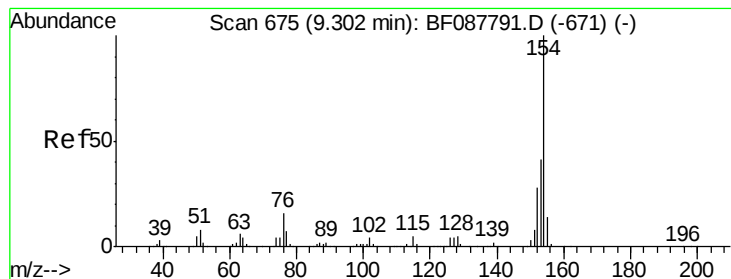
#44  
 2-Fluorobiphenyl  
 Concen: 23.52 ng  
 RT: 9.19 min Scan# 665  
 Delta R.T. -0.02 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Tgt Ion:172 Resp: 357098  
 Ion Ratio Lower Upper  
 172 100  
 171 35.2 28.6 43.0  
 170 23.3 19.2 28.8



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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.29 min Scan# 674

Delta R.T. -0.01 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

Instrument :

BNA\_F

ClientSampleId :

SS-22

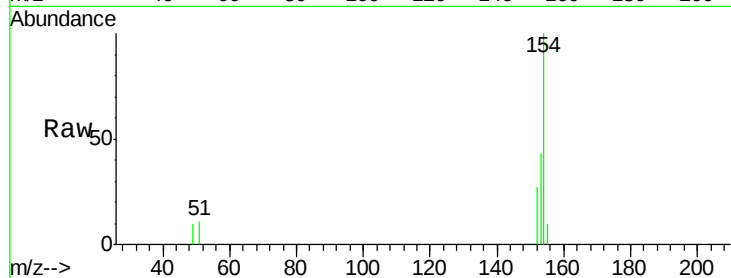
Tgt Ion:154 Resp: 2027

Ion Ratio Lower Upper

154 100

153 43.4 20.6 60.6

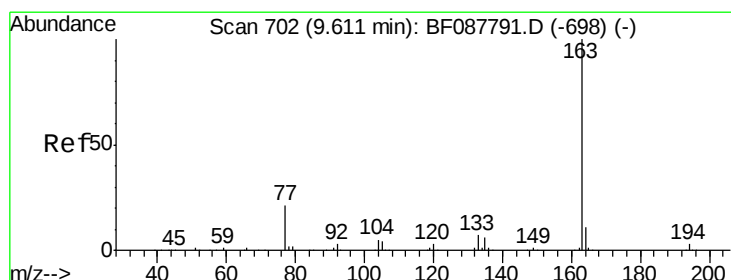
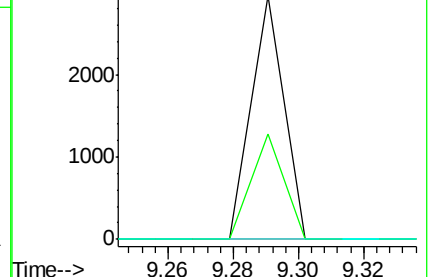
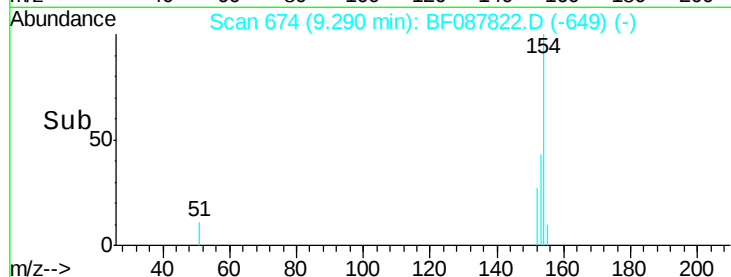
76 0.0 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 4.08 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.02 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

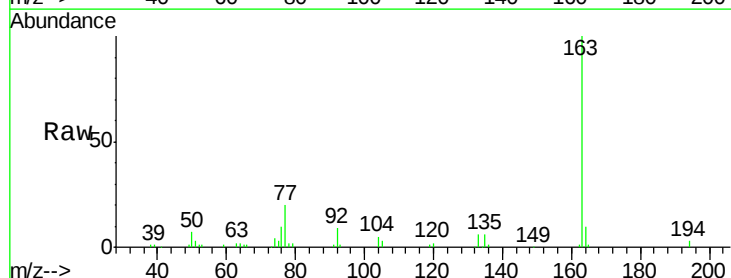
Tgt Ion:163 Resp: 60153

Ion Ratio Lower Upper

163 100

194 3.3 2.8 4.2

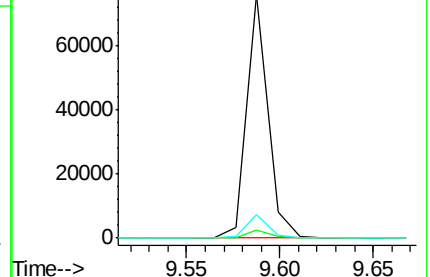
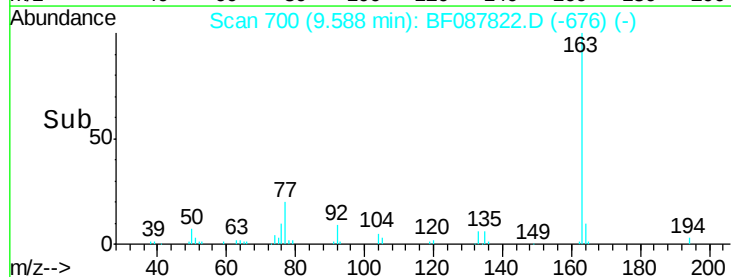
164 9.8 8.3 12.5

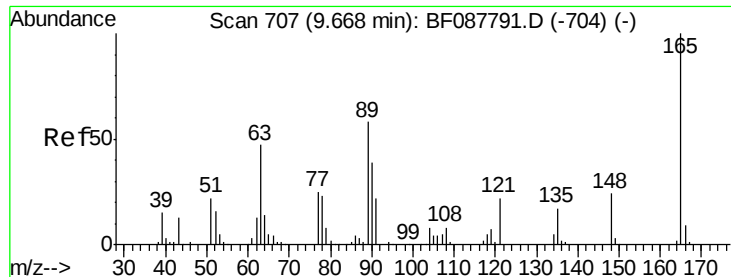


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

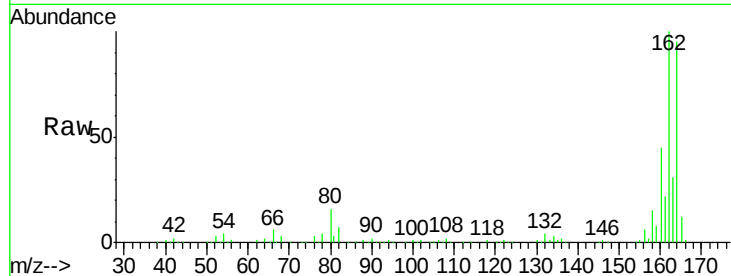




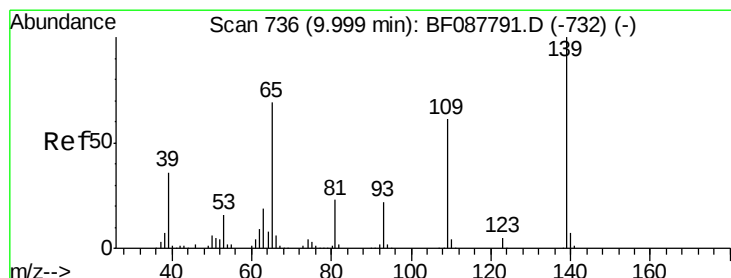
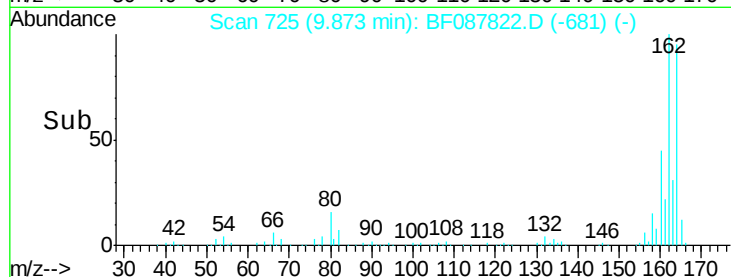
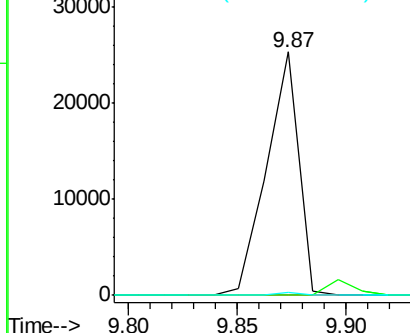
#50  
 2,6-Dinitrotoluene  
 Concen: 7.75 ng  
 RT: 9.87 min Scan# 725  
 Delta R.T. 0.21 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-22

Tgt Ion:165 Resp: 26204  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 28.1 42.1#  
 89 1.4 32.2 48.2#

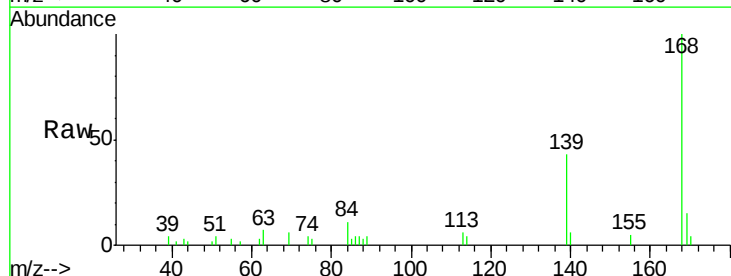


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

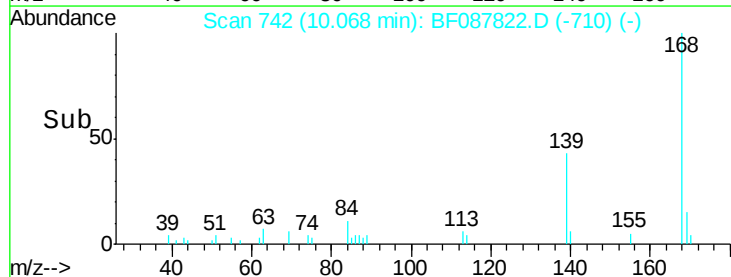
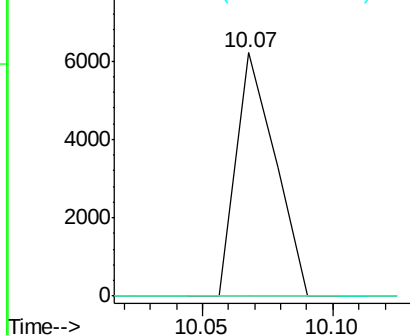


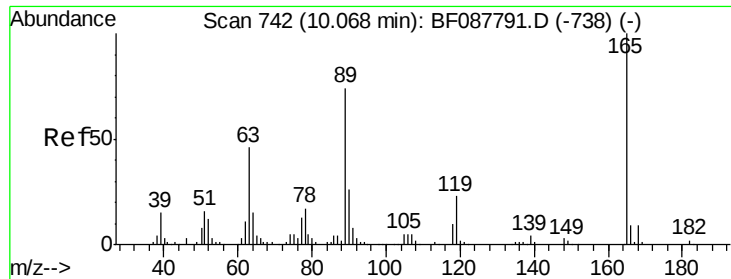
#55  
 4-Nitrophenol  
 Concen: 2.15 ng  
 RT: 10.07 min Scan# 742  
 Delta R.T. 0.07 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Tgt Ion:139 Resp: 6513  
 Ion Ratio Lower Upper  
 139 100  
 109 0.0 48.9 88.9#  
 65 0.0 84.9 124.9#



Abundance Ion 139.00 (138.70 to 139.70): E  
 Ion 109.00 (108.70 to 109.70): E  
 Ion 65.00 (64.70 to 65.70): BF0

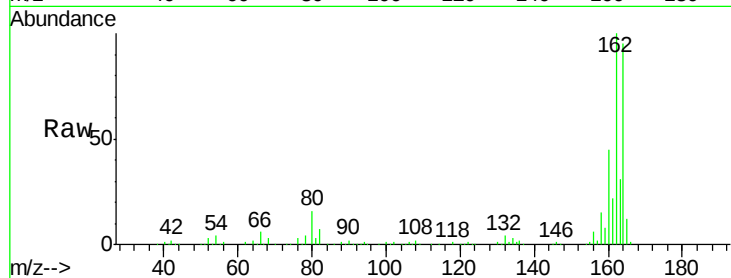




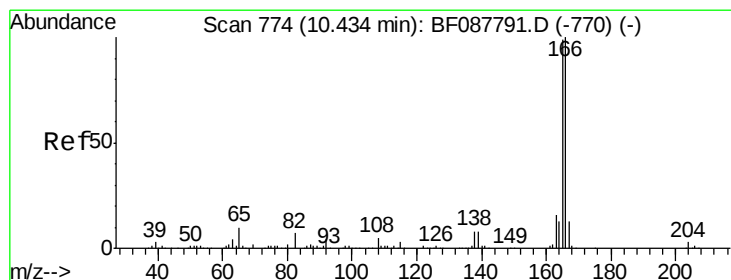
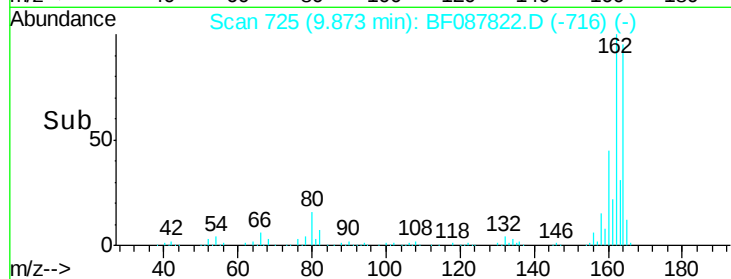
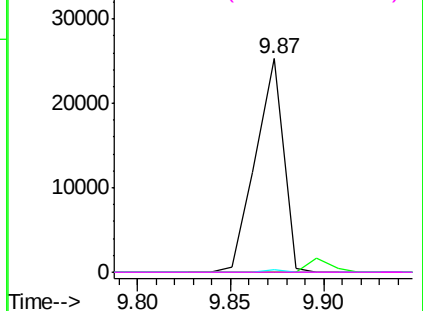
#56  
2,4-Dinitrotoluene  
Concen: 6.03 ng  
RT: 9.87 min Scan# 725  
Delta R.T. -0.19 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

Instrument :  
BNA\_F  
ClientSampleId :  
SS-22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 26205 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 22.0  | 33.0# |
| 89        | 1.4   | 41.1  | 61.7# |
| 182       | 0.0   | 2.0   | 3.0#  |

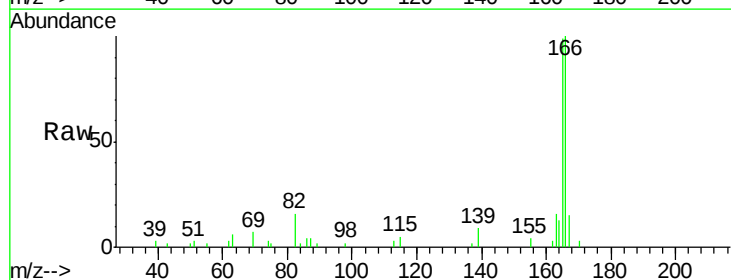


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E

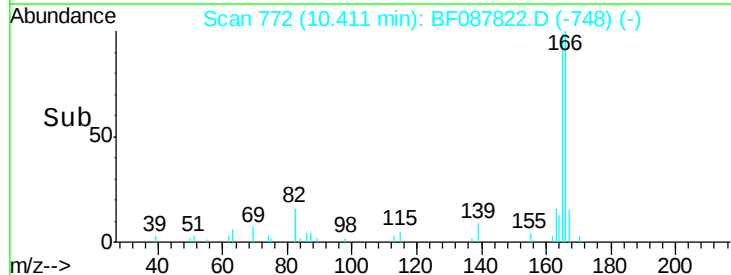
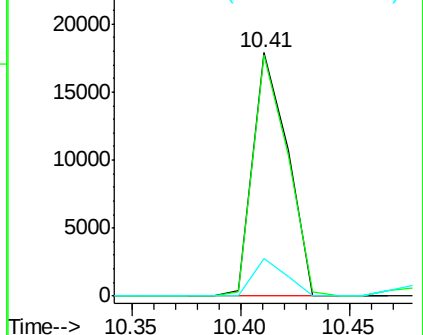


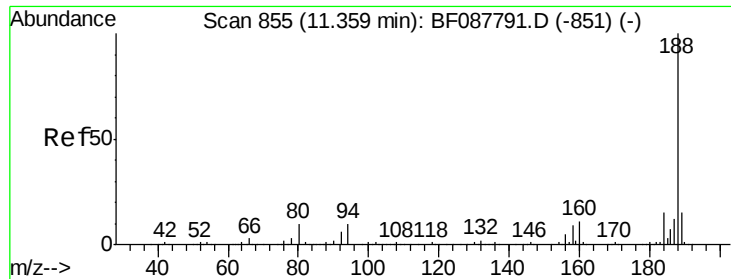
#57  
Fluorene  
Concen: Below Cal  
RT: 10.41 min Scan# 772  
Delta R.T. -0.02 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 19981 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.0  | 77.8  | 116.8 |
| 167       | 15.4  | 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

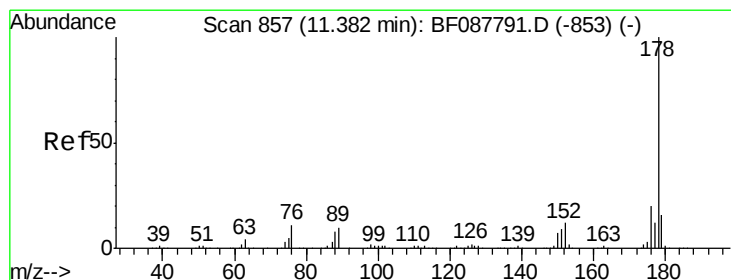
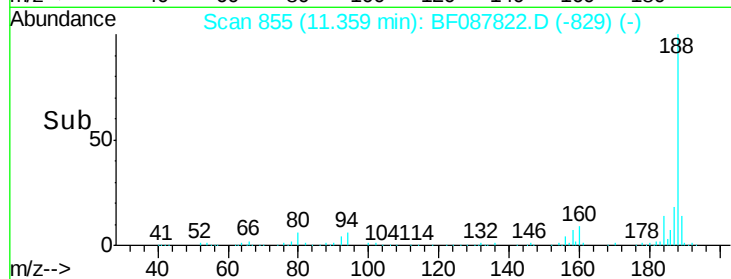
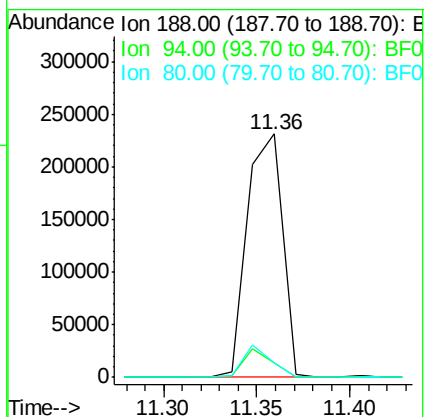
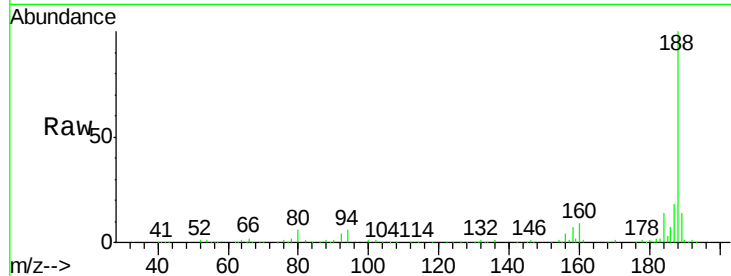




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.36 min Scan# 855  
 Delta R.T. -0.00 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

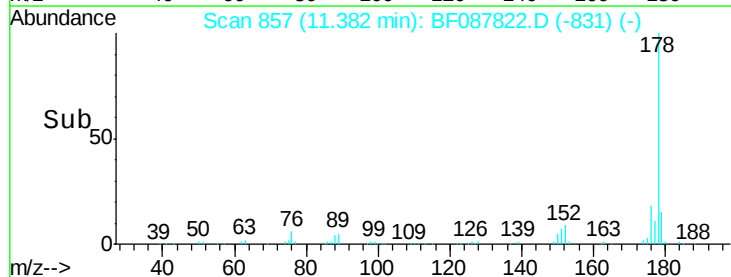
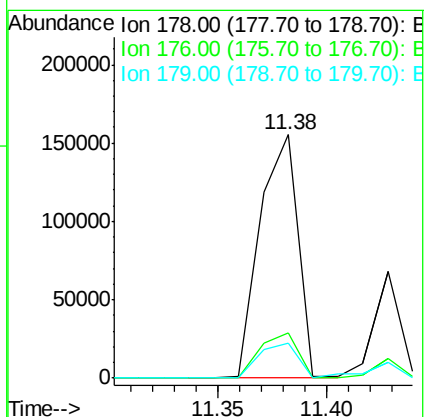
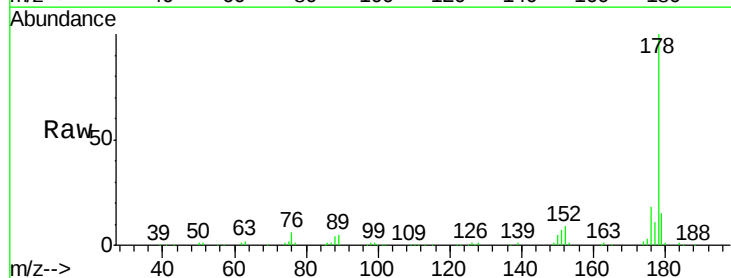
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-22

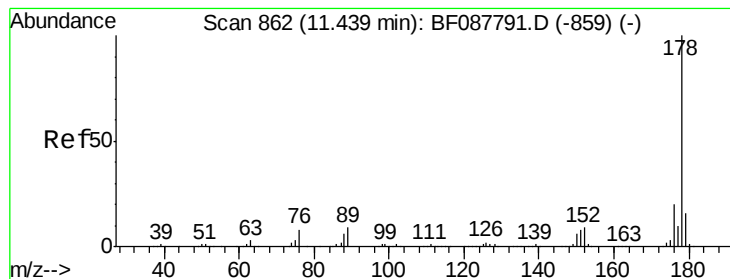
Tgt Ion:188 Resp: 302874  
 Ion Ratio Lower Upper  
 188 100  
 94 6.1 9.0 13.6#  
 80 6.0 10.0 15.0#



#70  
 Phenanthrene  
 Concen: 11.98 ng  
 RT: 11.38 min Scan# 857  
 Delta R.T. -0.00 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Tgt Ion:178 Resp: 190447  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 15.8 23.6  
 179 14.6 13.0 19.4





#71

Anthracene

Concen: 3.59 ng

RT: 11.43 min Scan# 861

Delta R.T. -0.01 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

Instrument :

BNA\_F

ClientSampleId :

SS-22

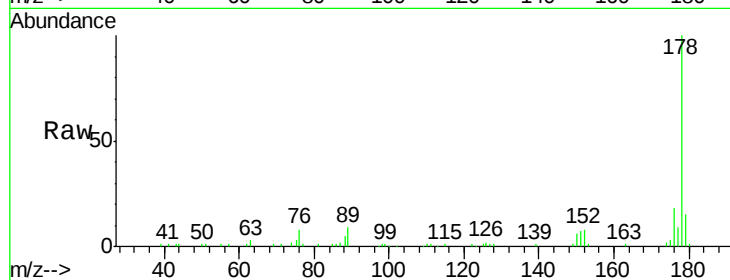
Tgt Ion:178 Resp: 57537

Ion Ratio Lower Upper

178 100

176 18.2 15.6 23.4

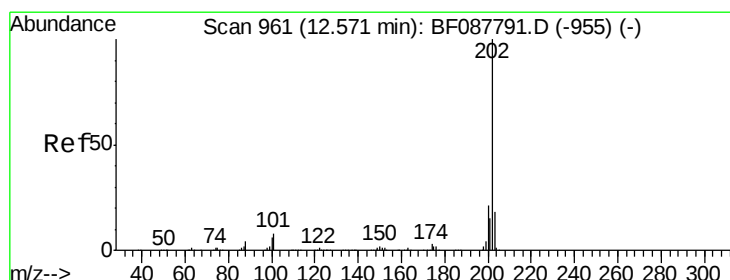
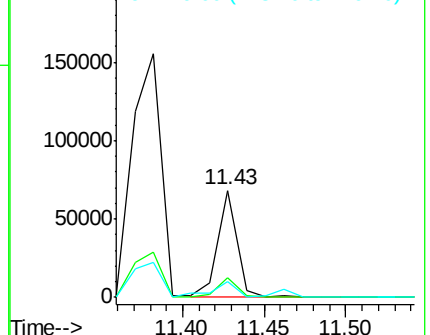
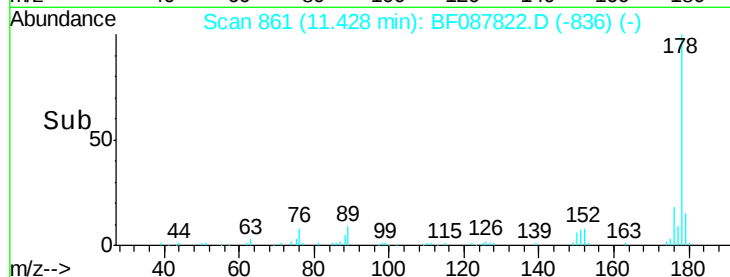
179 15.3 12.8 19.2



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



#74

Fluoranthene

Concen: 11.82 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.01 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

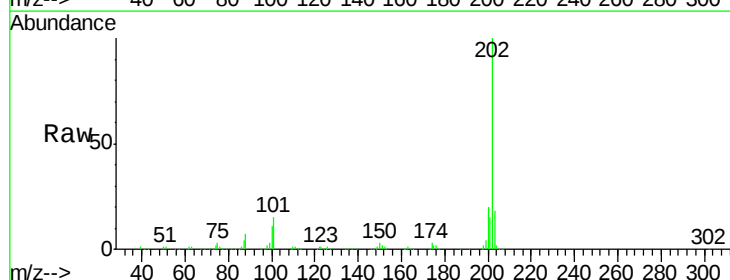
Tgt Ion:202 Resp: 198243

Ion Ratio Lower Upper

202 100

101 15.5 0.0 33.1

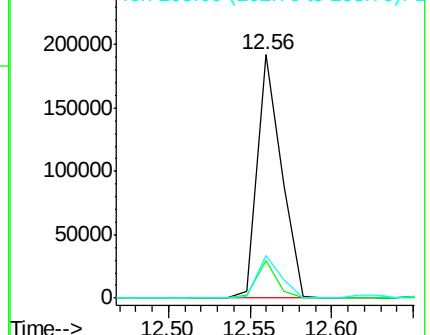
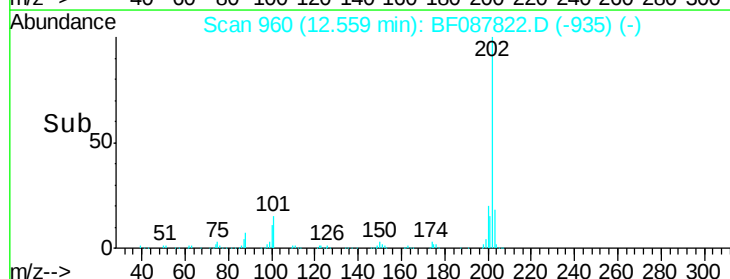
203 17.7 0.0 38.1

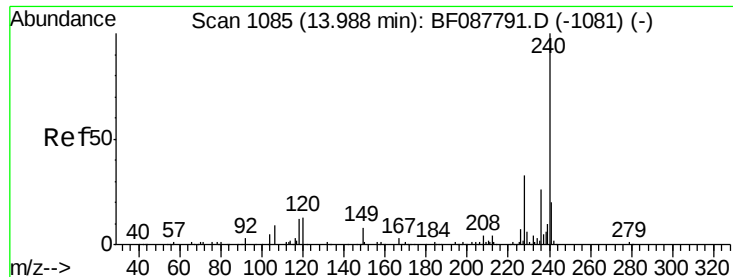


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.99 min Scan# 1085

Delta R.T. -0.00 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

Instrument :

BNA\_F

ClientSampleId :

SS-22

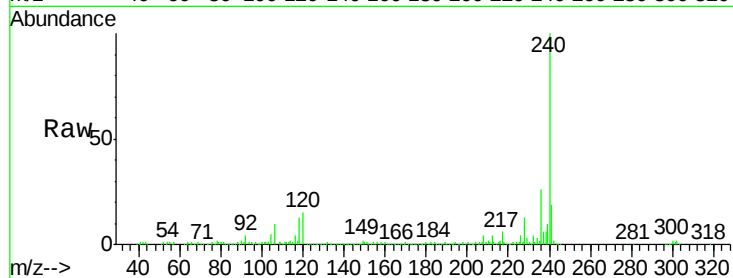
Tgt Ion:240 Resp: 258014

Ion Ratio Lower Upper

240 100

120 14.5 6.8 10.2#

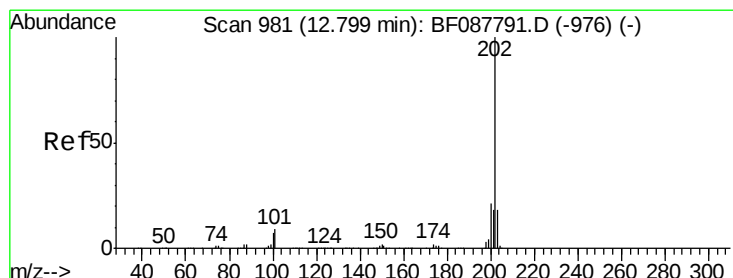
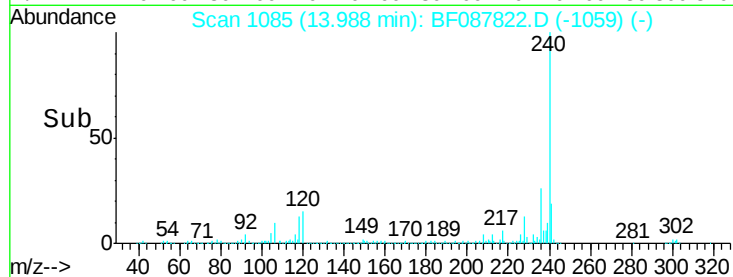
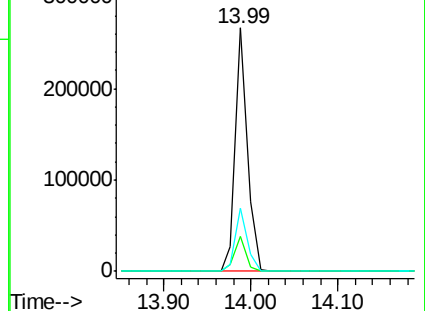
236 25.8 20.2 30.2



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: 8.76 ng

RT: 12.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

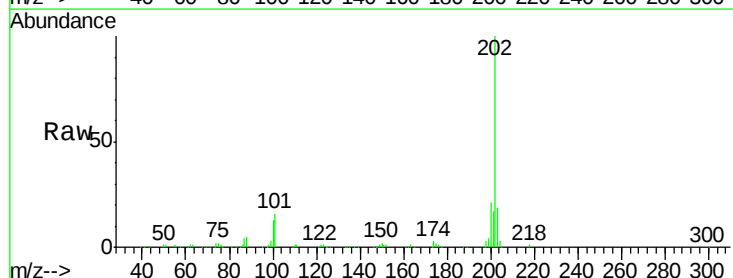
Tgt Ion:202 Resp: 167808

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

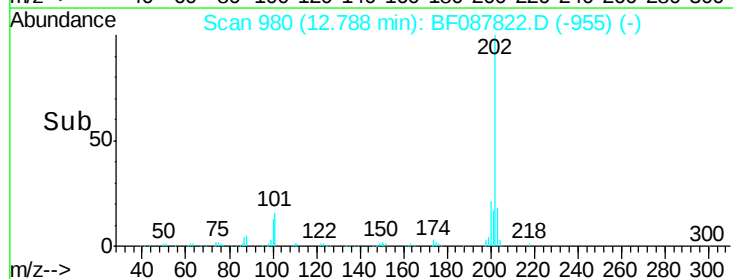
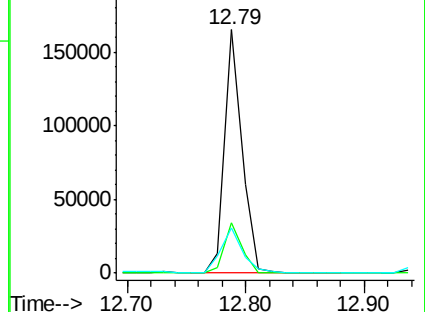
203 18.5 14.5 21.7

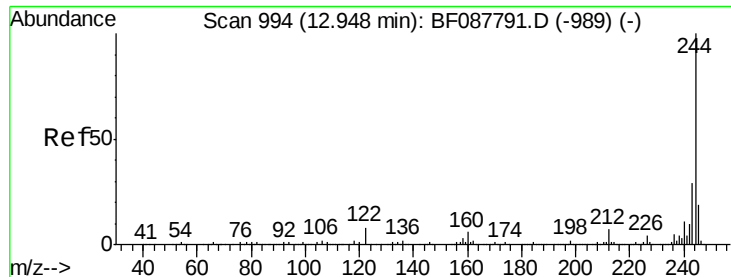


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 20.25 ng

RT: 12.94 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

Instrument :

BNA\_F

ClientSampled :

SS-22

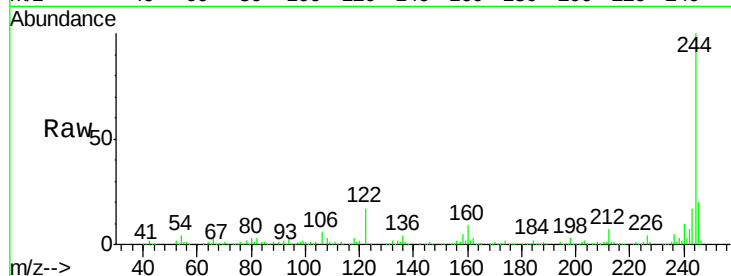
Tgt Ion:244 Resp: 229571

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

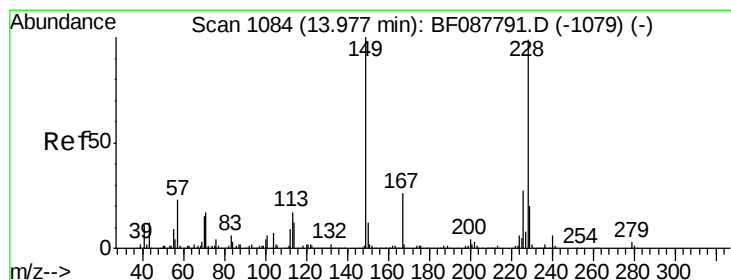
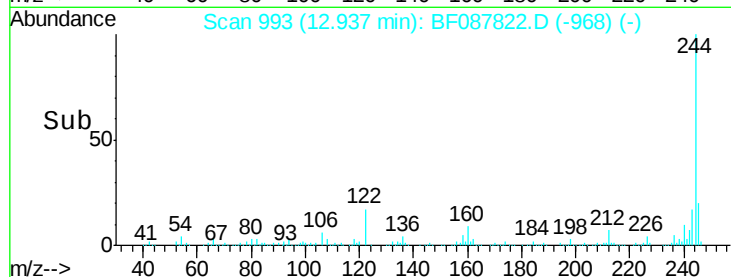
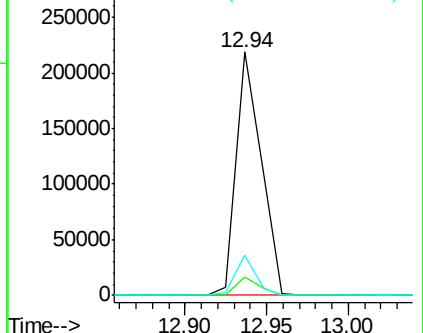
122 16.6 11.2 16.8



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



#80

Benzo(a)anthracene

Concen: 6.57 ng

RT: 13.98 min Scan# 1084

Delta R.T. -0.00 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

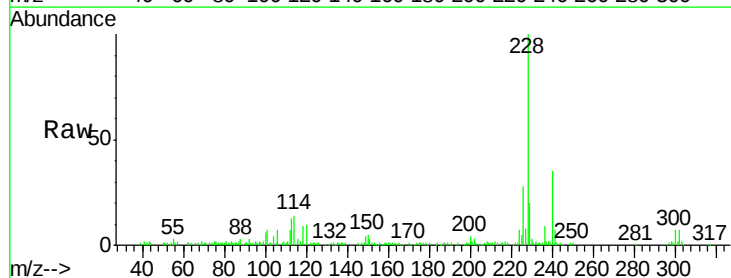
Tgt Ion:228 Resp: 96656

Ion Ratio Lower Upper

228 100

226 27.6 22.3 33.5

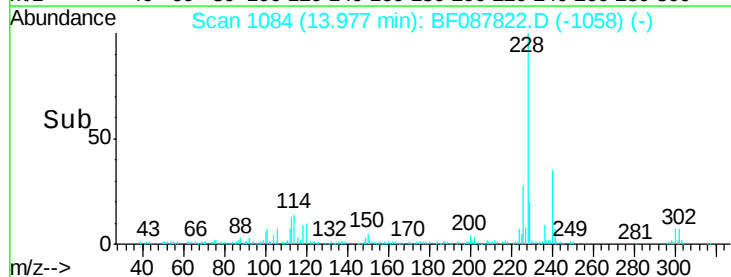
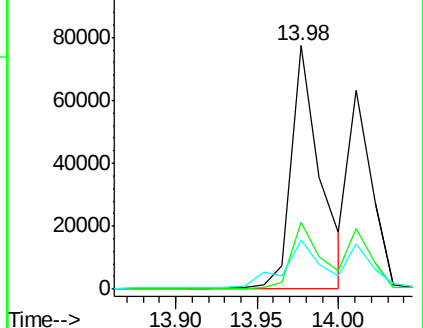
229 20.1 16.0 24.0

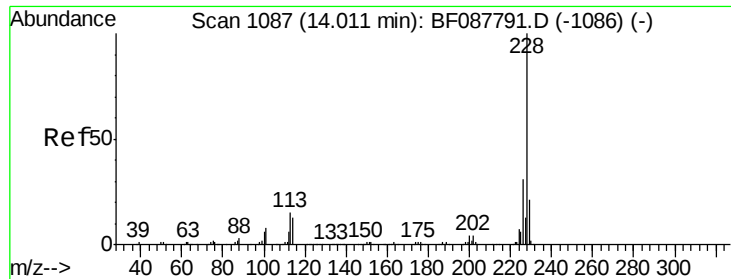


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 6.99 ng

RT: 13.98 min Scan# 1084

Delta R.T. -0.03 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

Instrument :

BNA\_F

ClientSampleId :

SS-22

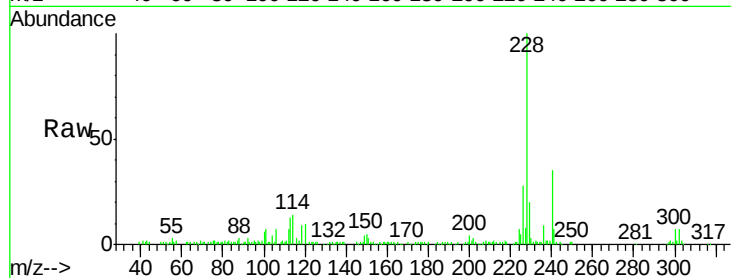
Tgt Ion:228 Resp: 96656

Ion Ratio Lower Upper

228 100

226 27.6 25.4 38.2

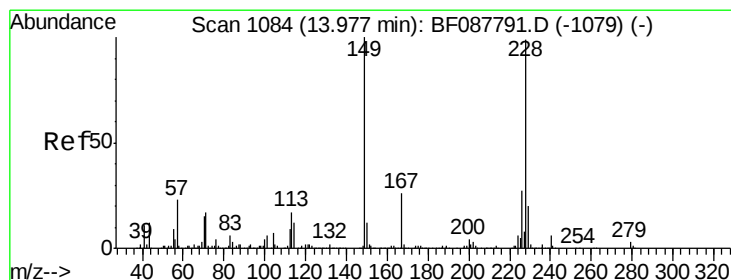
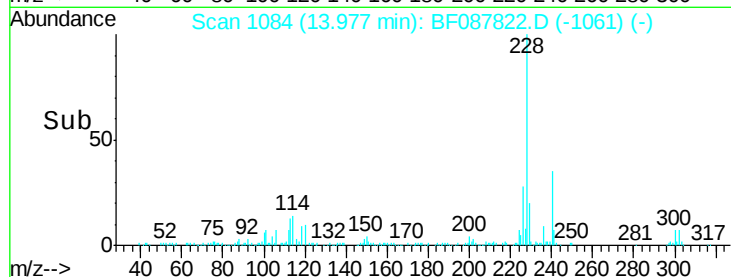
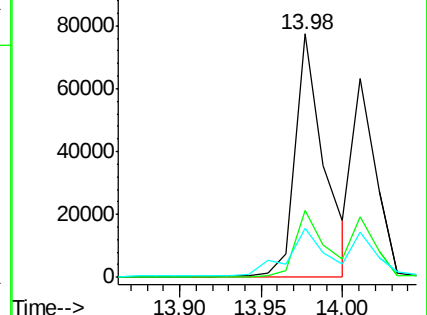
229 20.1 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.21 ng

RT: 13.99 min Scan# 1085

Delta R.T. 0.01 min

Lab File: BF087822.D

Acq: 8 Jun 2016 21:18

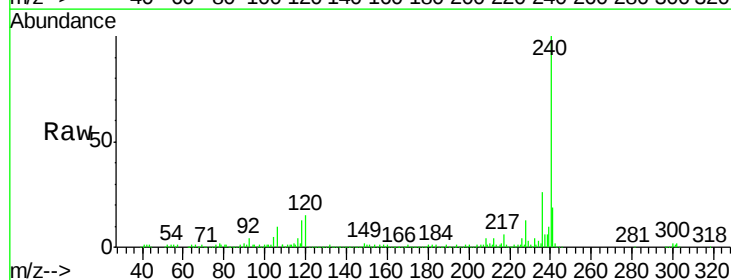
Tgt Ion:149 Resp: 22776

Ion Ratio Lower Upper

149 100

167 20.7 20.5 30.7

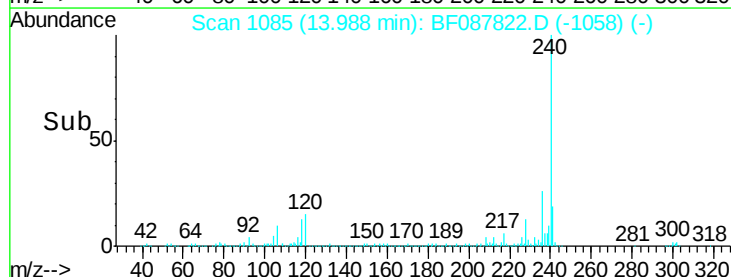
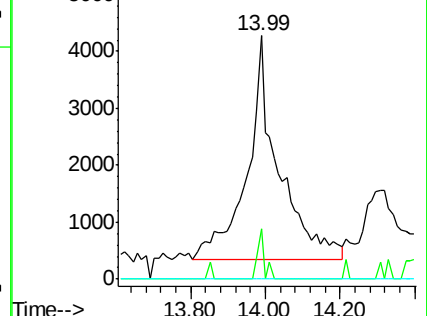
279 0.0 2.0 3.0#

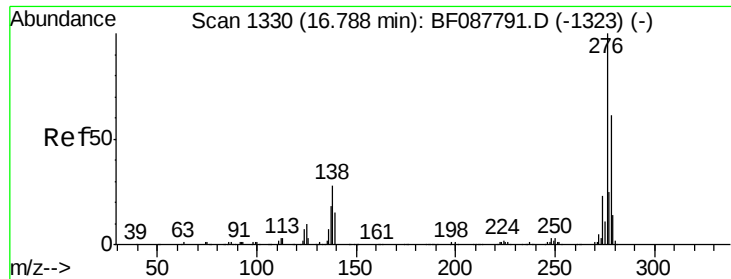


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

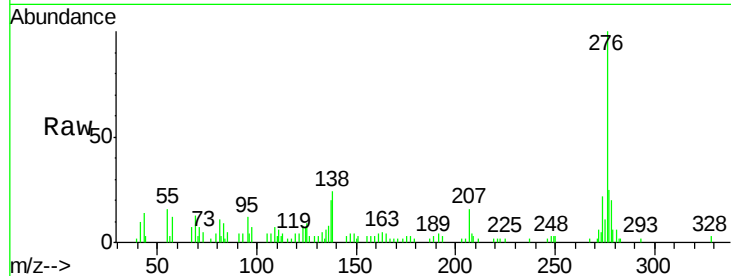




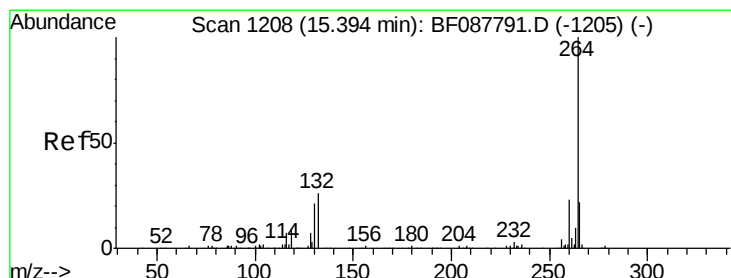
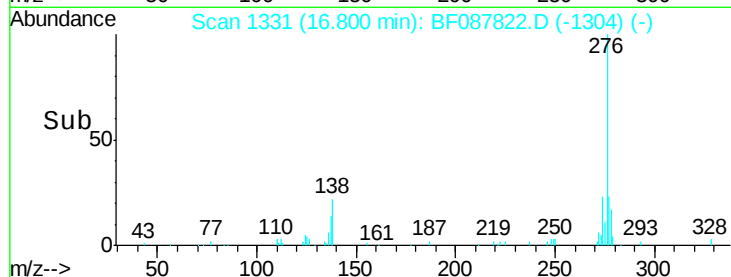
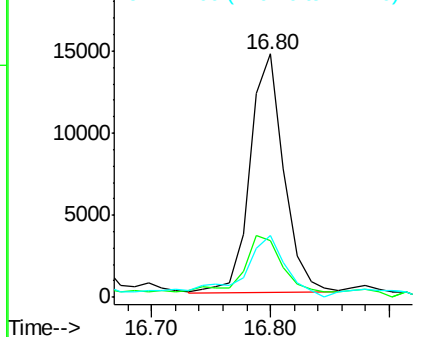
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.25 ng  
 RT: 16.80 min Scan# 1331  
 Delta R.T. 0.01 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-22

Tgt Ion: 276 Resp: 28939  
 Ion Ratio Lower Upper  
 276 100  
 138 27.7 0.0 0.0#  
 277 36.5 0.0 0.0#

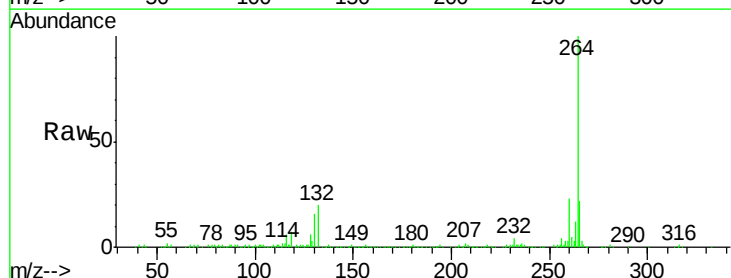


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

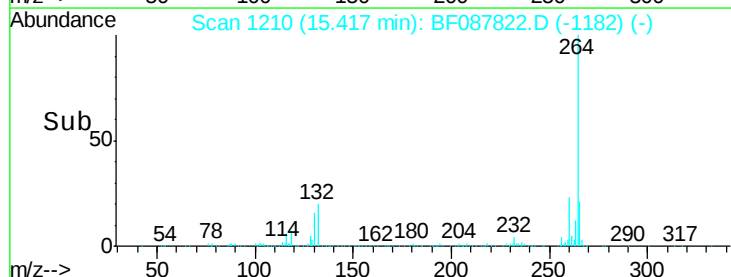
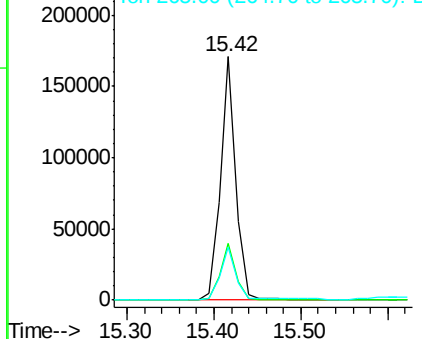


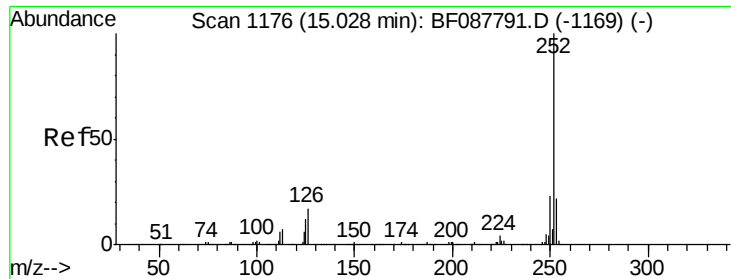
#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.42 min Scan# 1210  
 Delta R.T. 0.02 min  
 Lab File: BF087822.D  
 Acq: 8 Jun 2016 21:18

Tgt Ion: 264 Resp: 212188  
 Ion Ratio Lower Upper  
 264 100  
 260 23.4 19.2 28.8  
 265 21.6 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

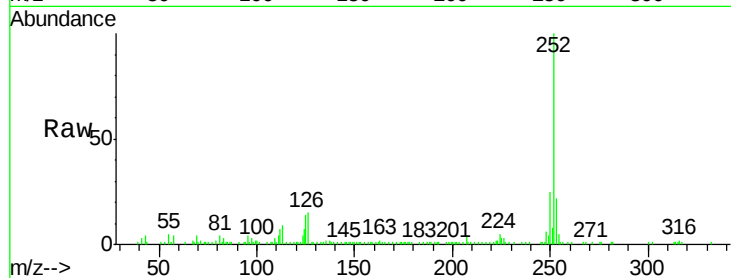




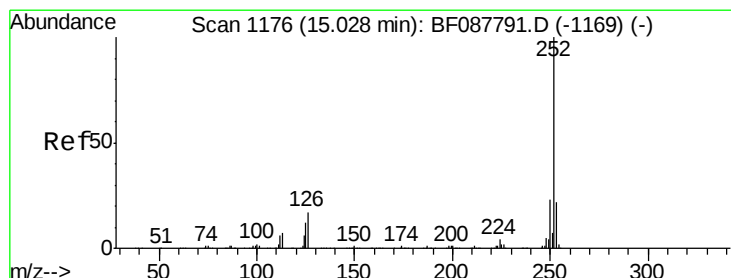
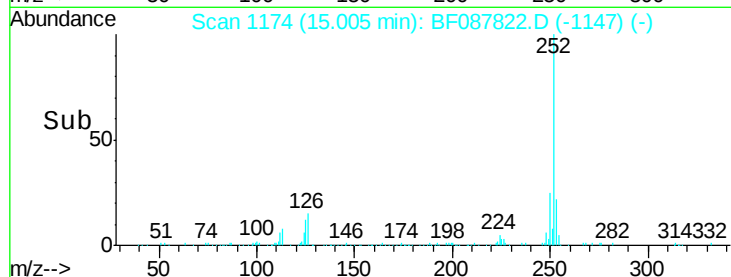
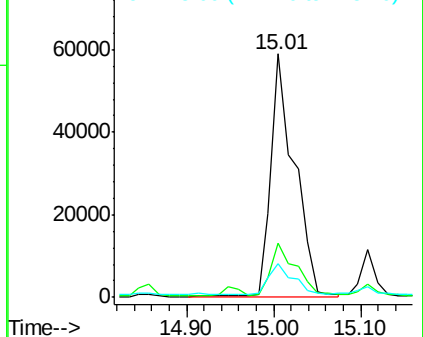
#87  
Benzo(b)fluoranthene  
Concen: 7.63 ng  
RT: 15.01 min Scan# 1174  
Delta R.T. 0.01 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

Instrument :  
BNA\_F  
ClientSampleId :  
SS-22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.4  | 26.2  |
| 125     | 13.9  | 7.1   | 10.7# |

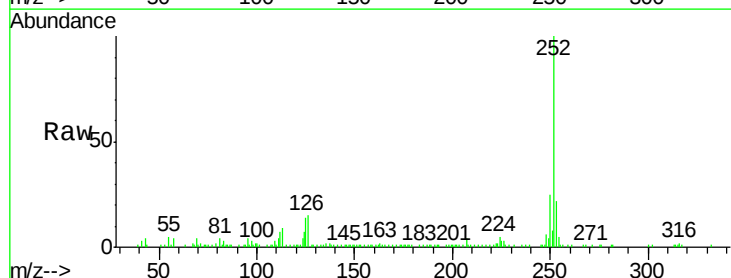


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

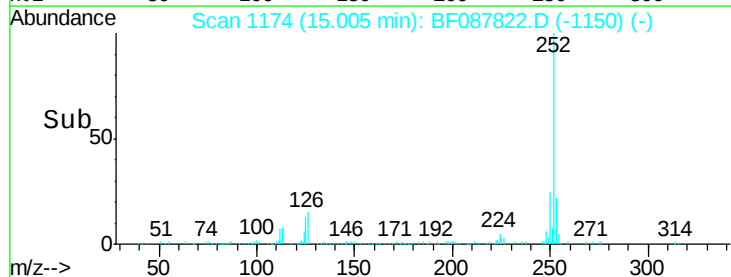
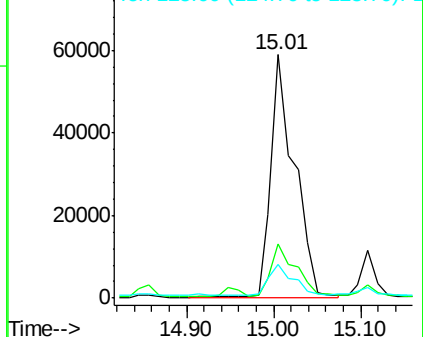


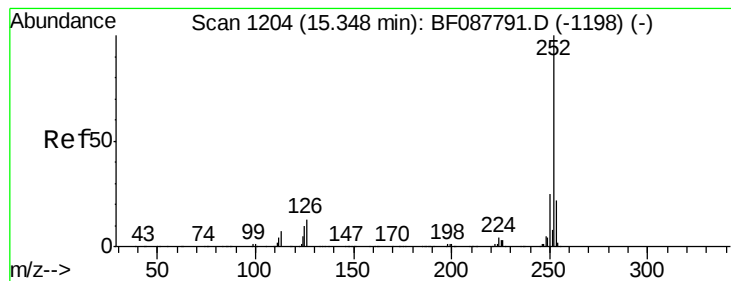
#88  
Benzo(k)fluoranthene  
Concen: 10.11 ng  
RT: 15.01 min Scan# 1174  
Delta R.T. -0.02 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.0  | 27.0  |
| 125     | 13.9  | 11.2  | 16.8  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

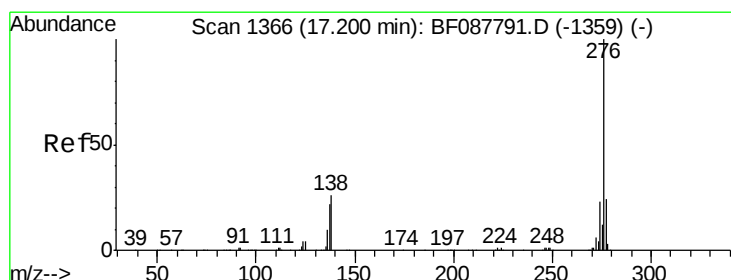
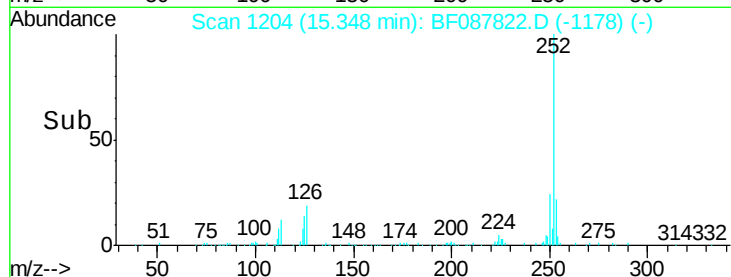
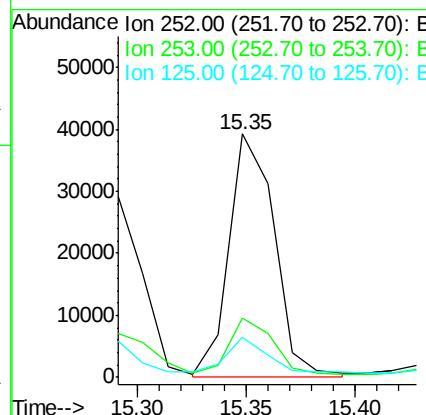
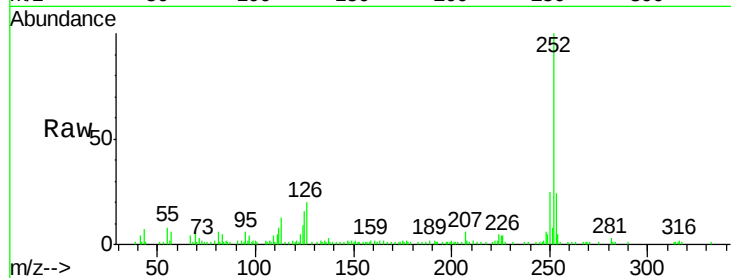




#89  
Benzo(a)pyrene  
Concen: 4.72 ng  
RT: 15.35 min Scan# 1204  
Delta R.T. -0.00 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

Instrument :  
BNA\_F  
ClientSampleId :  
SS-22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.9  | 26.9  |
| 125     | 16.3  | 12.5  | 18.7  |



#91  
Benzo(g,h,i)perylene  
Concen: 2.41 ng  
RT: 17.21 min Scan# 1367  
Delta R.T. 0.01 min  
Lab File: BF087822.D  
Acq: 8 Jun 2016 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.1  | 18.9  | 28.3  |
| 138     | 25.1  | 21.4  | 32.2  |

