

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031416\  
 Data File : BF085443.D  
 Acq On : 14 Mar 2016 21:53  
 Operator : UM/SJ  
 Sample : H1722-10RE  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W170TH-SB-22(0.5-2.0)

Quant Time: Mar 15 01:03:08 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.93  | 152  | 175993   | 20.00 | ng    | -0.06    |
| 21) Naphthalene-d8        | 8.21  | 136  | 727463   | 20.00 | ng    | -0.06    |
| 38) Acenaphthene-d10      | 9.97  | 164  | 334040   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.45 | 188  | 581747   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12          | 14.09 | 240  | 313772   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12          | 15.55 | 264  | 318449   | 20.00 | ng    | -0.07    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.53  | 112 | 1150341 | 109.64 | ng | -0.05 |
| 7) Phenol-d6                | 6.56  | 99  | 1758755 | 127.94 | ng | -0.05 |
| 23) Nitrobenzene-d5         | 7.49  | 82  | 959223  | 70.56  | ng | -0.06 |
| 41) 2,4,6-Tribromophenol    | 10.76 | 330 | 346848  | 121.35 | ng | -0.06 |
| 44) 2-Fluorobiphenyl        | 9.28  | 172 | 1500568 | 68.32  | ng | -0.07 |
| 78) Terphenyl-d14           | 13.04 | 244 | 1101118 | 81.47  | ng | -0.05 |

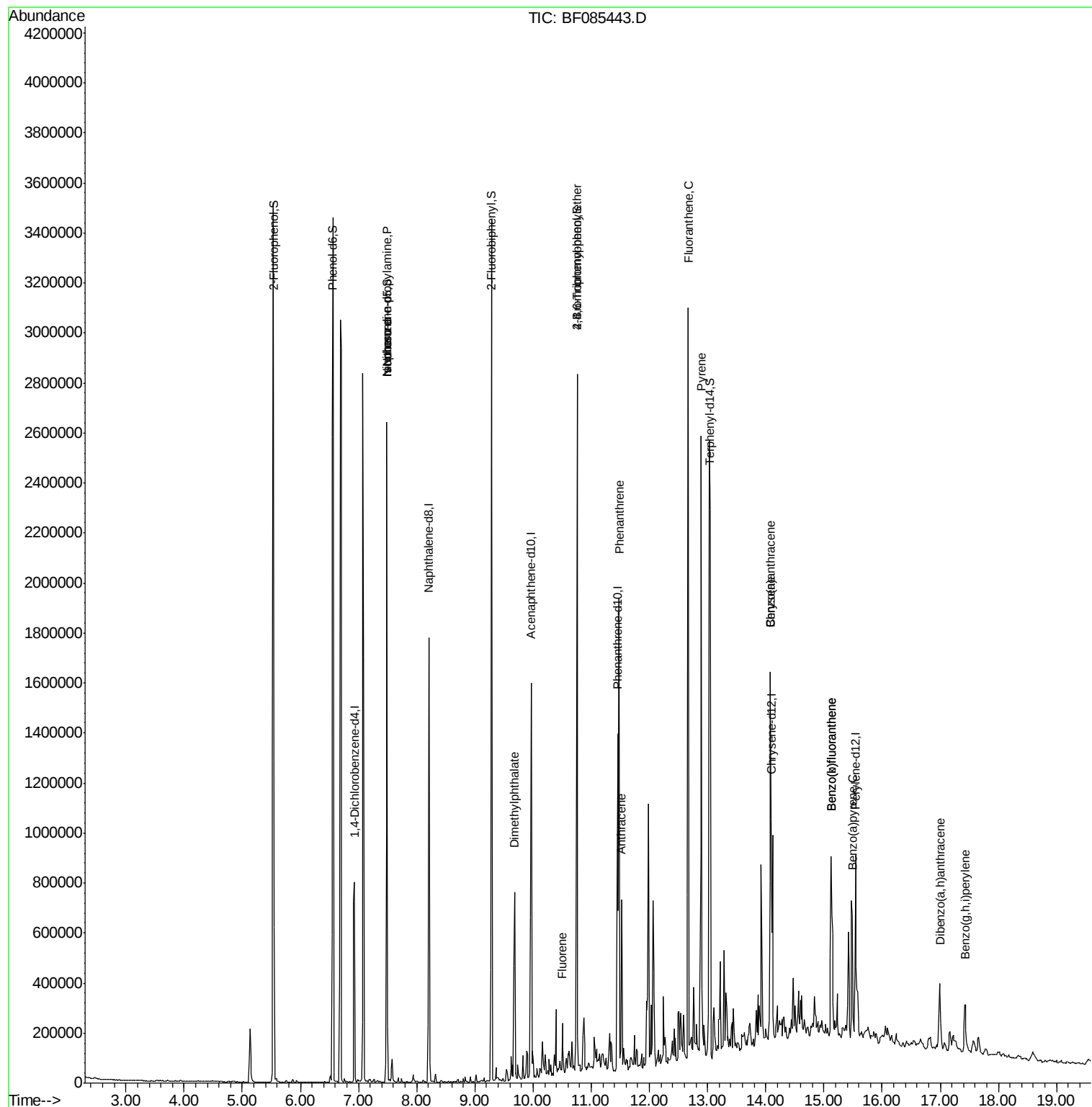
|                                |       |     |         |           |    |      |
|--------------------------------|-------|-----|---------|-----------|----|------|
| Target Compounds               |       |     |         | Qvalue    |    |      |
| 9) Benzaldehyde                | 6.56  | 77  | 2583    | Below Cal | #  | 2    |
| 19) n-Nitroso-di-n-propylamine | 7.49  | 70  | 129254  | 14.43     | ng | # 78 |
| 25) Isophorone                 | 7.49  | 82  | 696815  | 27.66     | ng | # 67 |
| 49) Dimethylphthalate          | 9.68  | 163 | 371095  | 14.47     | ng | 98   |
| 57) Fluorene                   | 10.50 | 166 | 57737   | 2.73      | ng | 98   |
| 66) 4-Bromophenyl-phenylether  | 10.76 | 248 | 25046   | 4.43      | ng | # 1  |
| 70) Phenanthrene               | 11.48 | 178 | 739371  | 24.25     | ng | 97   |
| 71) Anthracene                 | 11.52 | 178 | 247383  | 7.64      | ng | 98   |
| 74) Fluoranthene               | 12.66 | 202 | 1093780 | 35.75     | ng | 98   |
| 77) Pyrene                     | 12.89 | 202 | 988860  | 41.87     | ng | 99   |
| 80) Benzo(a)anthracene         | 14.08 | 228 | 535400  | 28.50     | ng | 98   |
| 82) Chrysene                   | 14.08 | 228 | 535400  | 30.85     | ng | 98   |
| 87) Benzo(b)fluoranthene       | 15.12 | 252 | 552705  | 26.04     | ng | 98   |
| 88) Benzo(k)fluoranthene       | 15.12 | 252 | 552705  | 32.28     | ng | 99   |
| 89) Benzo(a)pyrene             | 15.49 | 252 | 312088  | 17.74     | ng | 98   |
| 90) Dibenzo(a,h)anthracene     | 17.00 | 278 | 50236   | 3.35      | ng | 94   |
| 91) Benzo(g,h,i)perylene       | 17.43 | 276 | 163117  | 10.80     | ng | 95   |

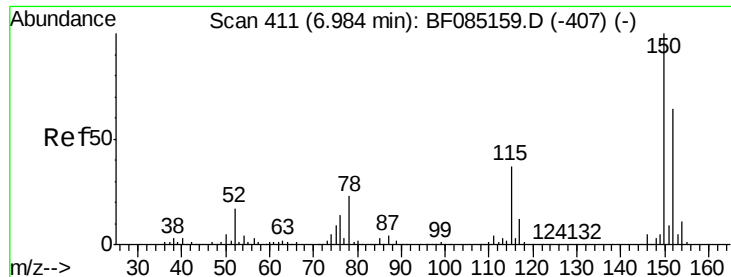
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031416\  
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Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-22(0.5-2.0)

Quant Time: Mar 15 01:03:08 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.93 min Scan# 406

Delta R.T. -0.06 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-22(0.5-2.0)

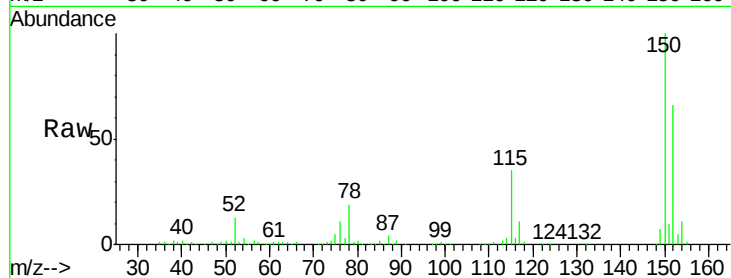
Tgt Ion:152 Resp: 175993

Ion Ratio Lower Upper

152 100

150 152.2 124.6 186.8

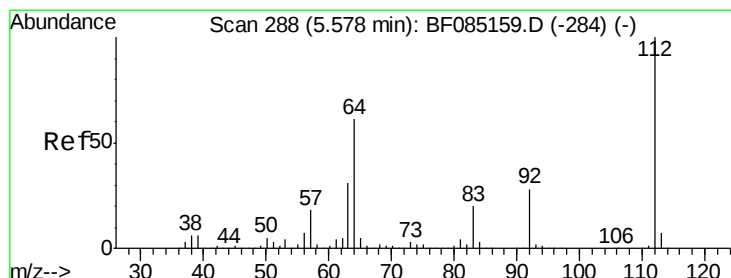
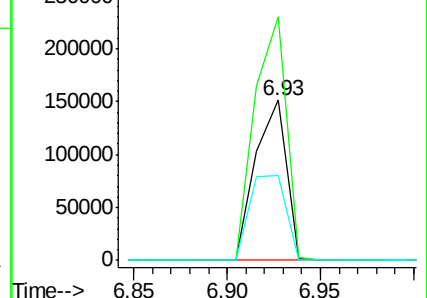
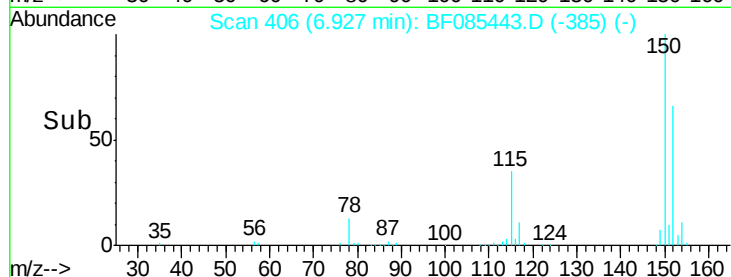
115 53.4 46.6 70.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 109.64 ng

RT: 5.53 min Scan# 284

Delta R.T. -0.05 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

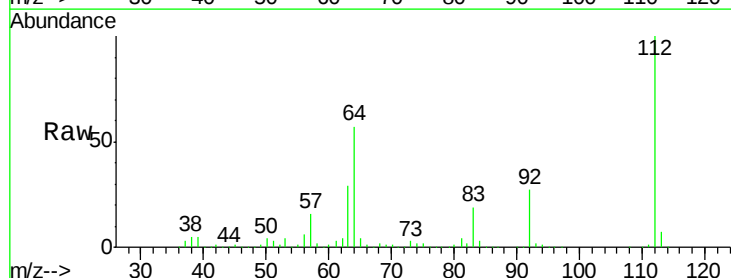
Tgt Ion:112 Resp: 1150341

Ion Ratio Lower Upper

112 100

64 56.7 49.0 73.4

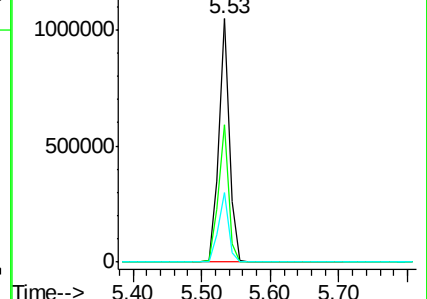
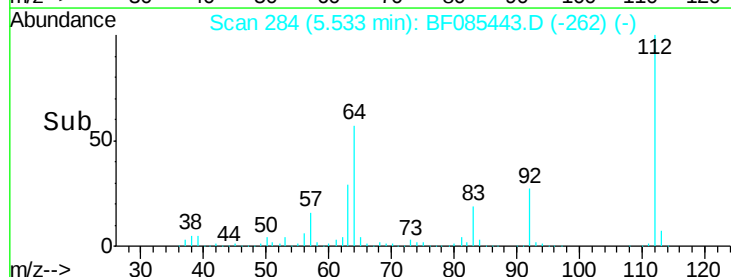
63 28.6 24.8 37.2

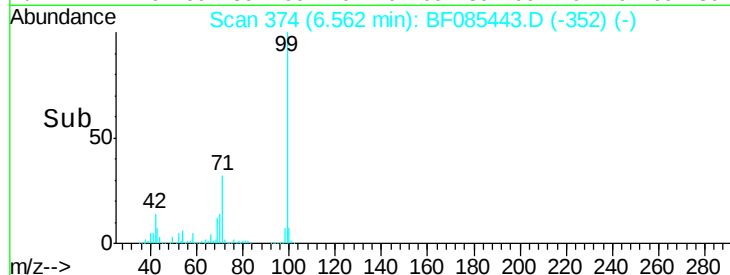
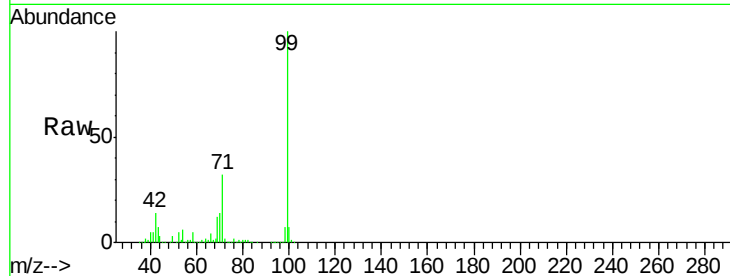
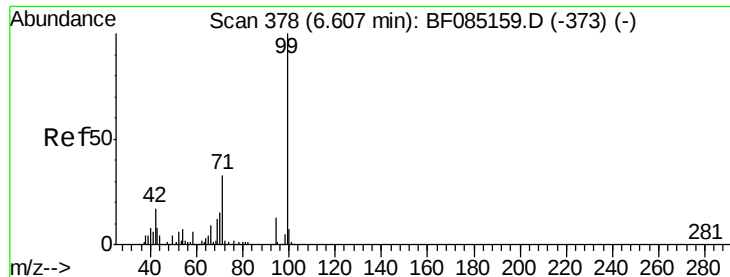


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 127.94 ng

RT: 6.56 min Scan# 374

Delta R.T. -0.05 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-22(0.5-2.0)

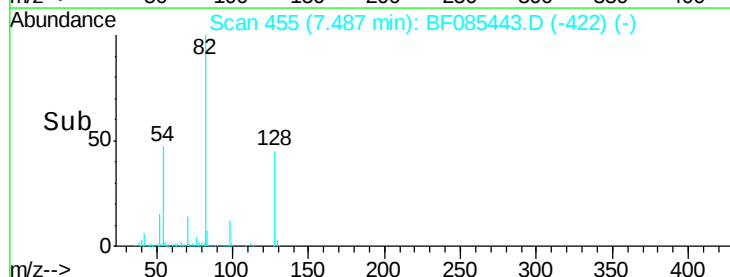
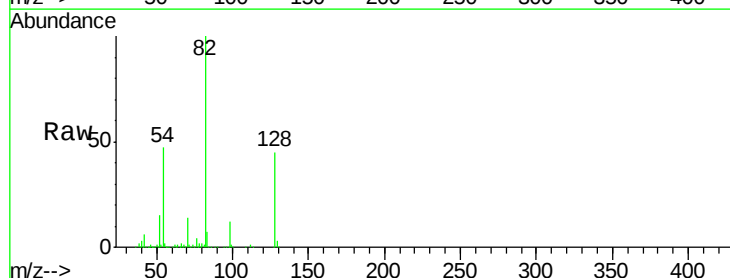
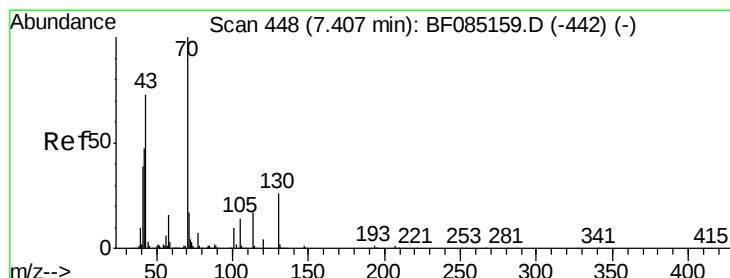
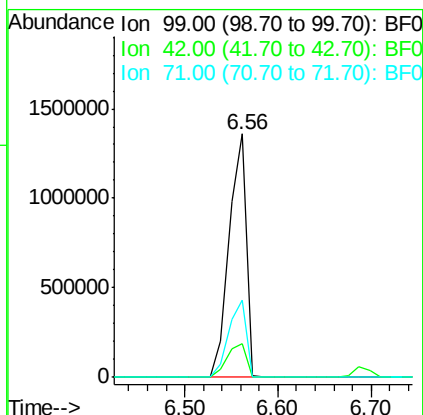
Tgt Ion: 99 Resp: 1758755

Ion Ratio Lower Upper

99 100

42 13.8 13.6 20.4

71 31.6 26.7 40.1



#19

n-Nitroso-di-n-propylamine

Concen: 14.43 ng

RT: 7.49 min Scan# 455

Delta R.T. 0.08 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Tgt Ion: 70 Resp: 129254

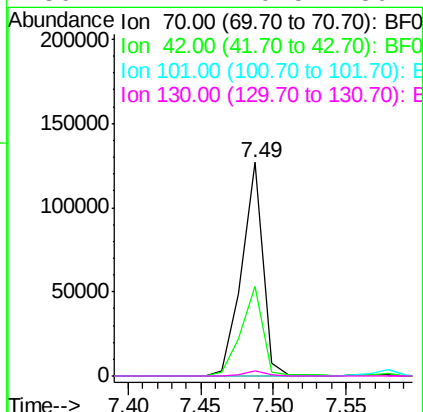
Ion Ratio Lower Upper

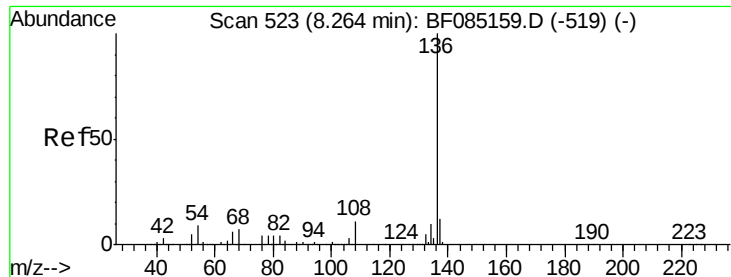
70 100

42 42.2 37.7 56.5

101 0.0 8.2 12.4#

130 2.4 20.5 30.7#

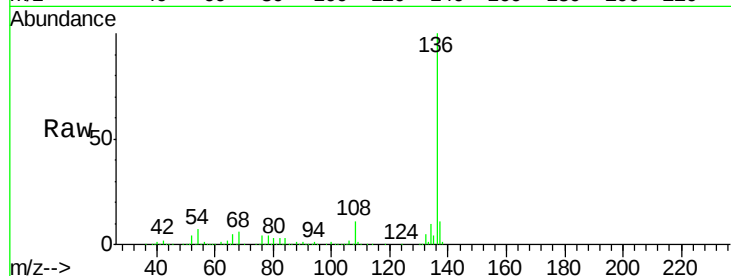




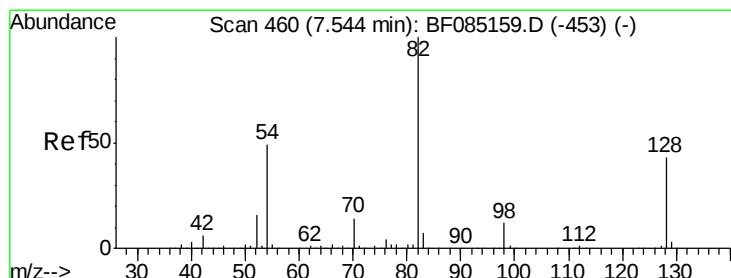
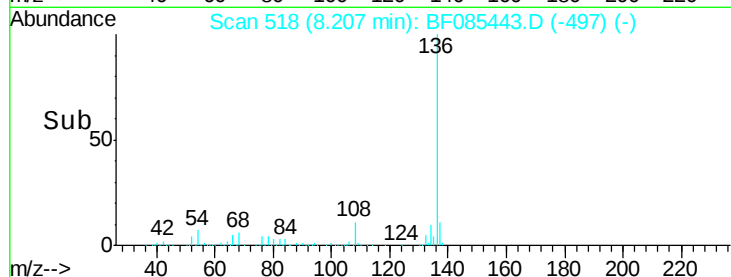
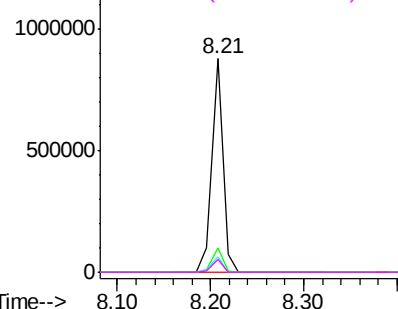
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.21 min Scan# 518  
Delta R.T. -0.06 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-22(0.5-2.0)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 727463 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 9.3   | 13.9   |
| 54       | 7.3   | 7.4   | 11.2#  |
| 68       | 6.2   | 6.0   | 9.0    |

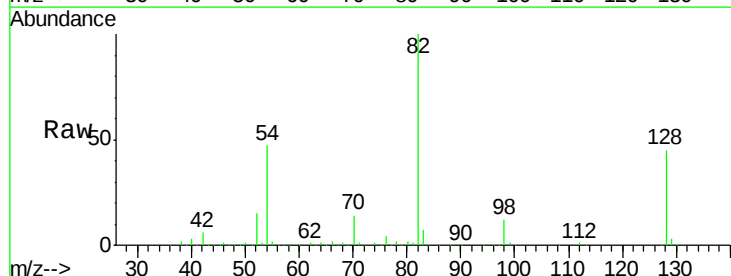


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

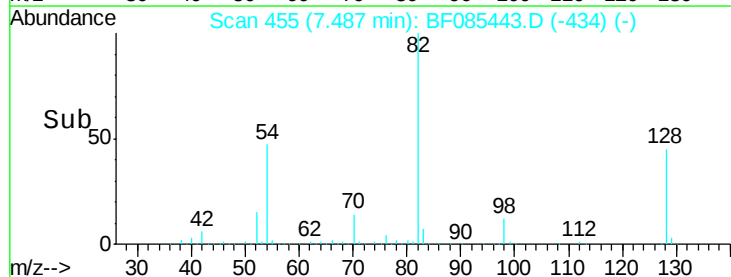
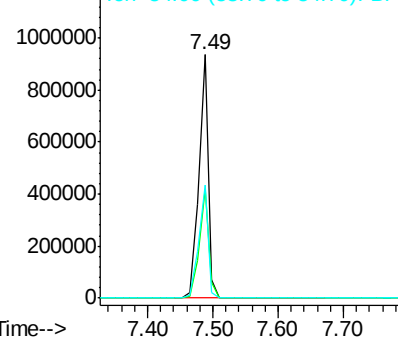


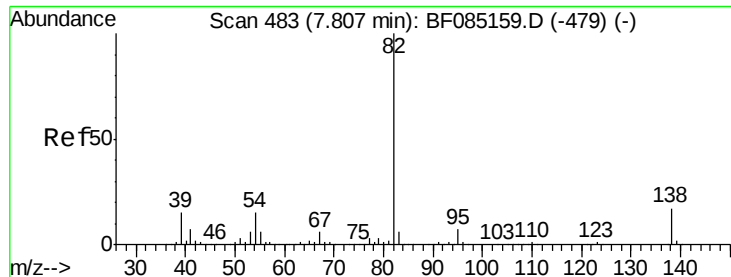
#23  
Nitrobenzene-d5  
Concen: 70.56 ng  
RT: 7.49 min Scan# 455  
Delta R.T. -0.06 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 959223 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.0  | 34.5  | 51.7   |
| 54       | 46.6  | 39.3  | 58.9   |



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





#25

Isophorone

Concen: 27.66 ng

RT: 7.49 min Scan# 455

Delta R.T. -0.32 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-22(0.5-2.0)

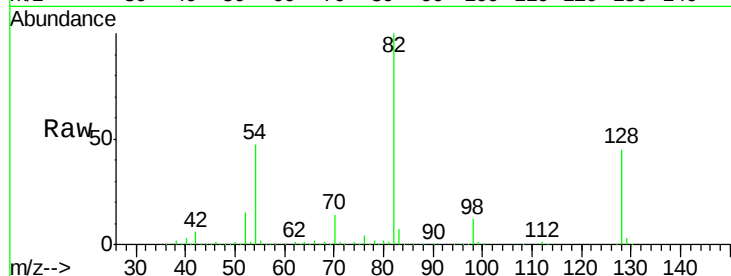
Tgt Ion: 82 Resp: 696815

Ion Ratio Lower Upper

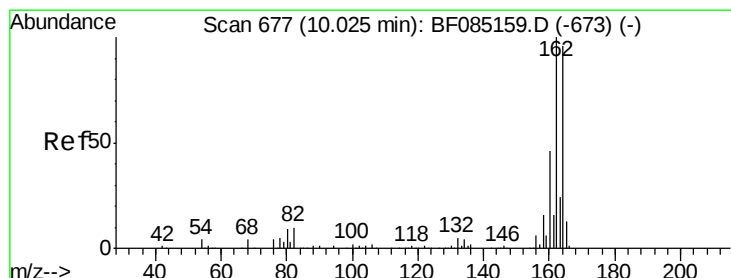
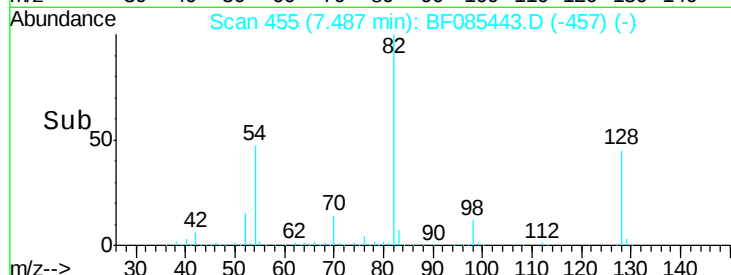
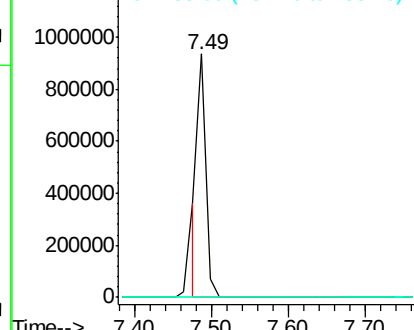
82 100

95 0.0 5.4 8.2#

138 0.0 13.3 19.9#



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: 9.97 min Scan# 672

Delta R.T. -0.06 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

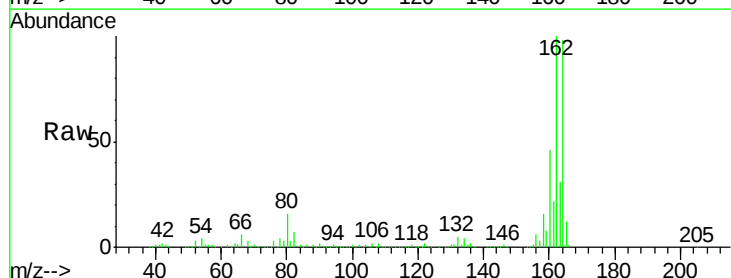
Tgt Ion: 164 Resp: 334040

Ion Ratio Lower Upper

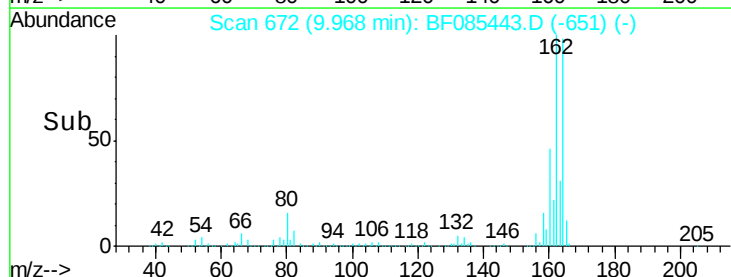
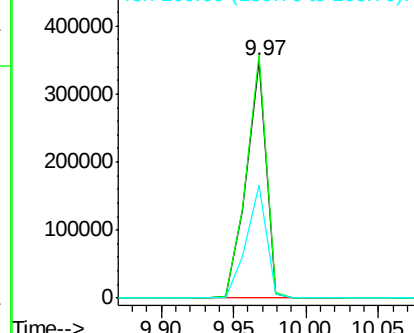
164 100

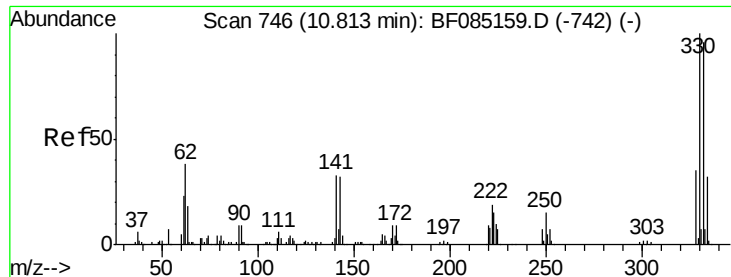
162 102.4 83.3 124.9

160 47.4 37.9 56.9



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

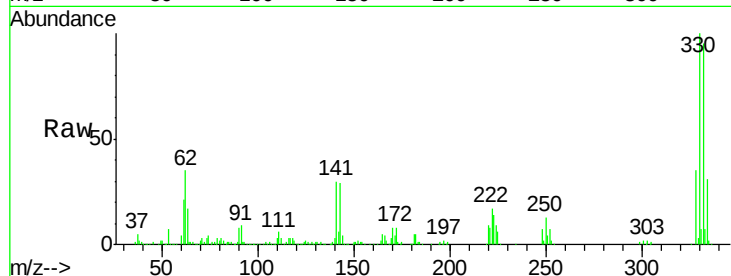




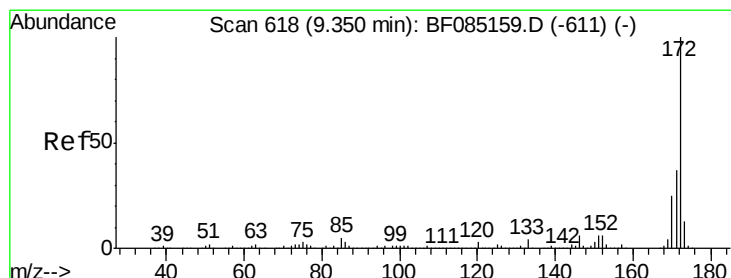
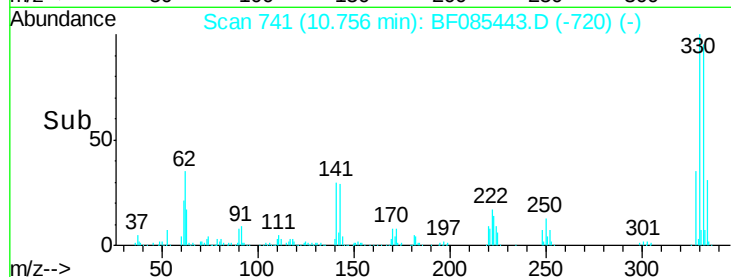
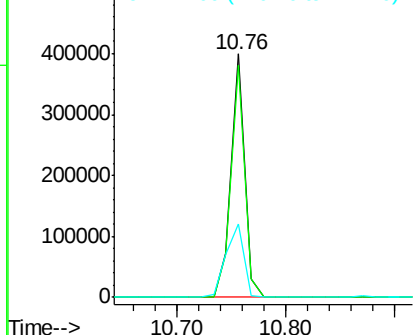
#41  
 2,4,6-Tribromophenol  
 Concen: 121.35 ng  
 RT: 10.76 min Scan# 741  
 Delta R.T. -0.06 min  
 Lab File: BF085443.D  
 Acq: 14 Mar 2016 21:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W170TH-SB-22(0.5-2.0)

Tgt Ion:330 Resp: 346848  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 77.1 115.7  
 141 38.6 35.0 52.6

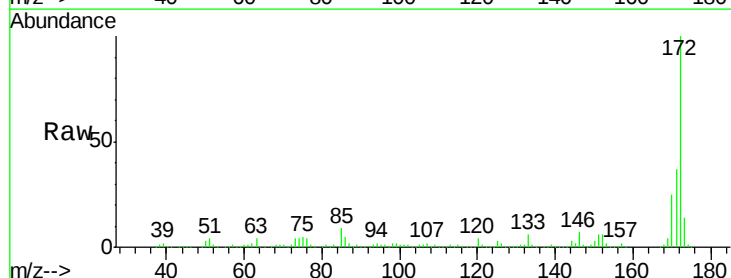


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

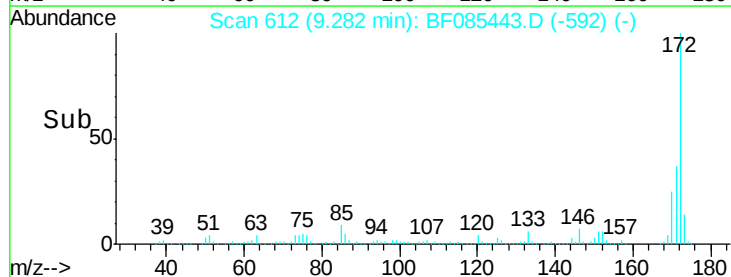
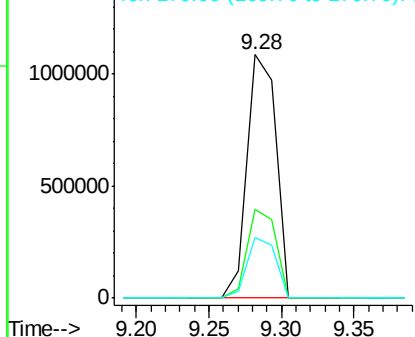


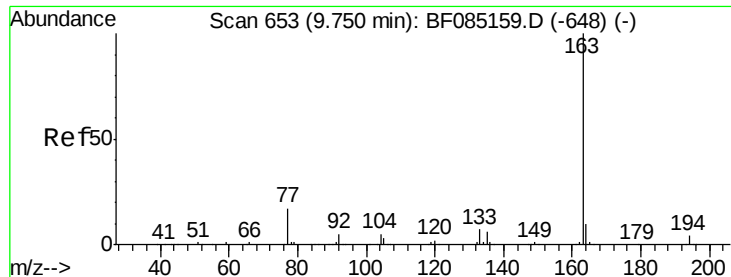
#44  
 2-Fluorobiphenyl  
 Concen: 68.32 ng  
 RT: 9.28 min Scan# 612  
 Delta R.T. -0.07 min  
 Lab File: BF085443.D  
 Acq: 14 Mar 2016 21:53

Tgt Ion:172 Resp: 1500568  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.3 43.9  
 170 24.6 20.0 30.0



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

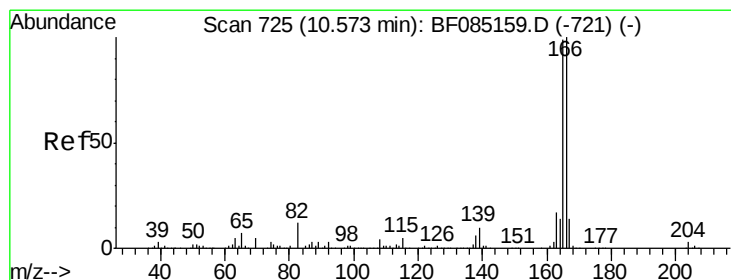
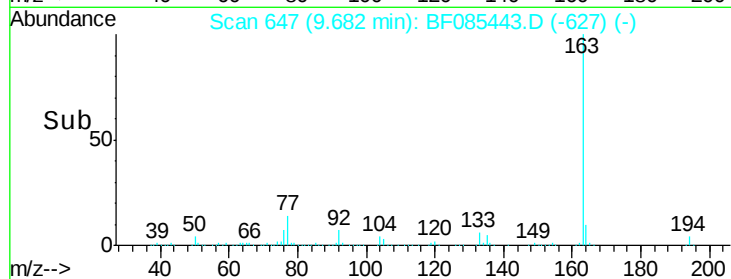
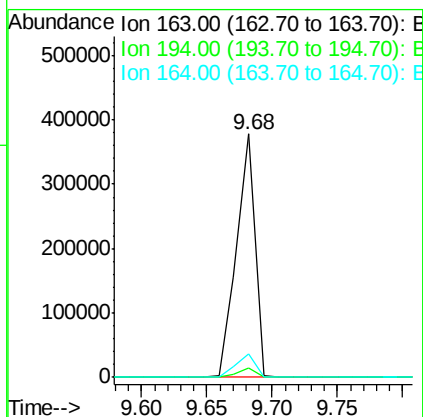
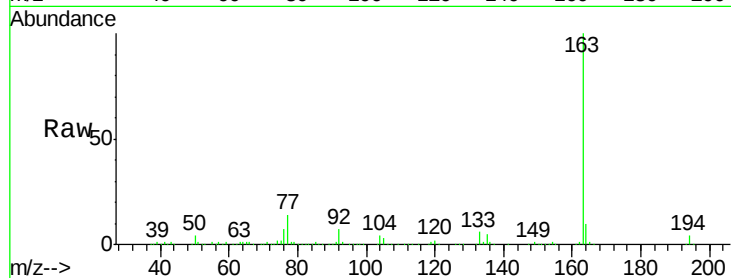




#49  
Dimethylphthalate  
Concen: 14.47 ng  
RT: 9.68 min Scan# 647  
Delta R.T. -0.07 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

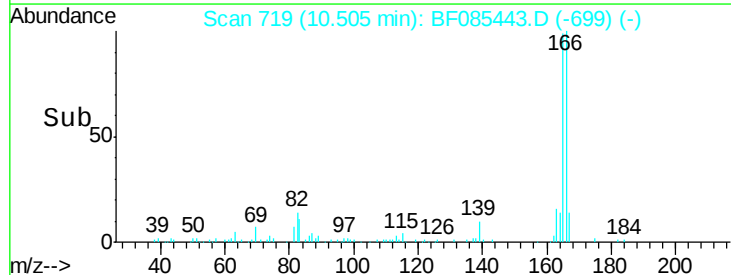
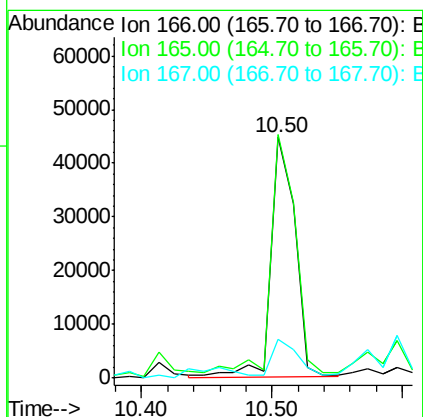
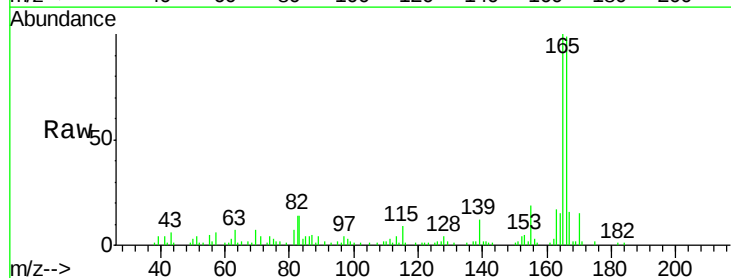
Instrument :  
BNA\_F  
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W170TH-SB-22(0.5-2.0)

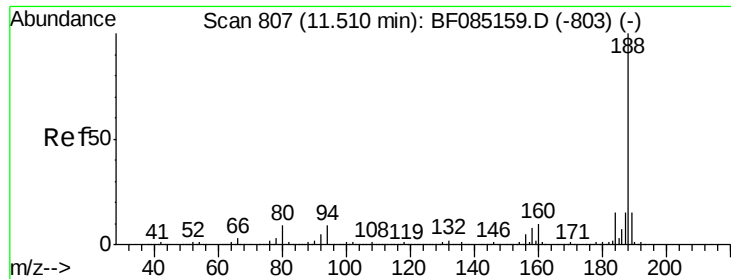
Tgt Ion:163 Resp: 371095  
Ion Ratio Lower Upper  
163 100  
194 3.8 3.1 4.7  
164 9.5 8.2 12.4



#57  
Fluorene  
Concen: 2.73 ng  
RT: 10.50 min Scan# 719  
Delta R.T. -0.07 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

Tgt Ion:166 Resp: 57737  
Ion Ratio Lower Upper  
166 100  
165 101.1 79.4 119.0  
167 16.2 11.0 16.6

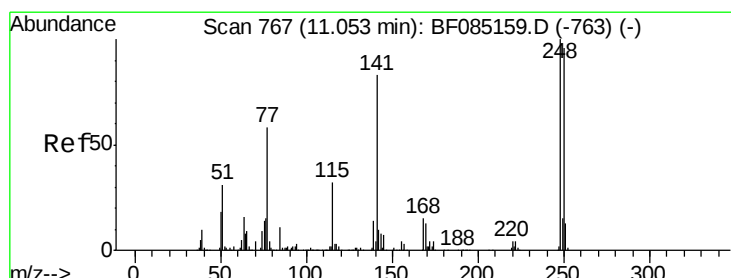
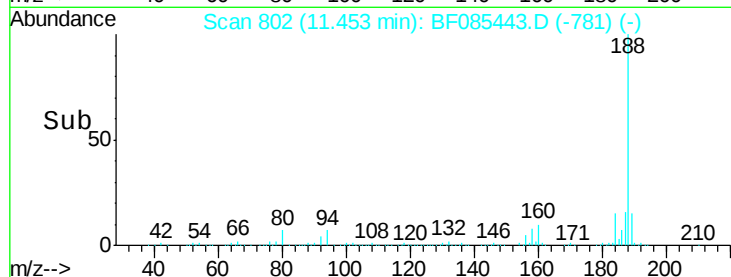
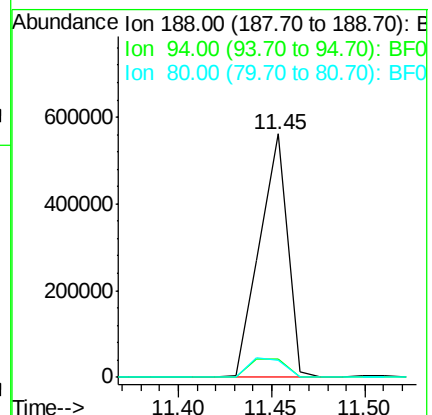
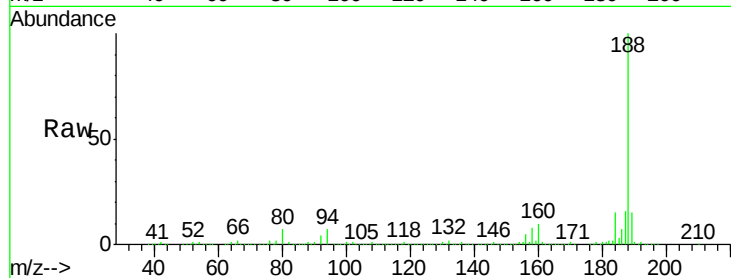




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.45 min Scan# 802  
Delta R.T. -0.06 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

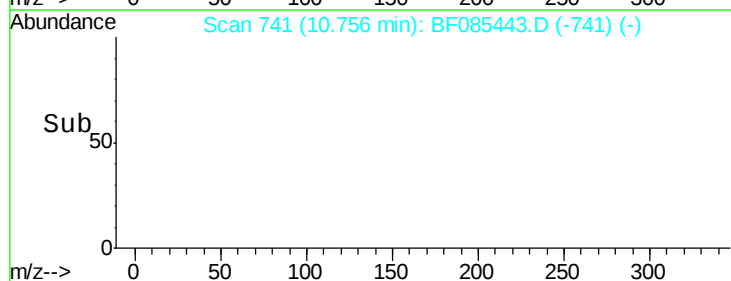
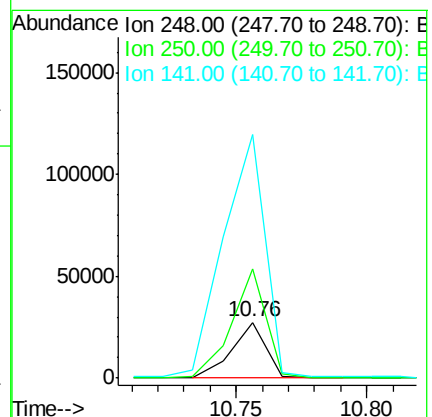
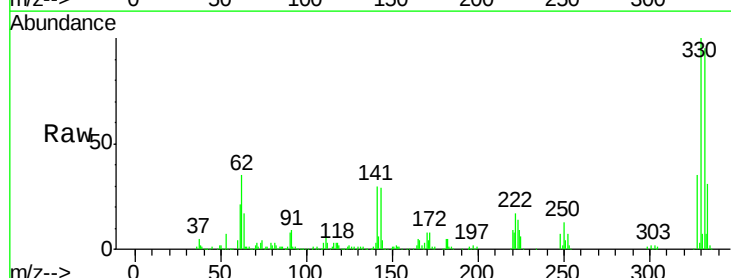
Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-22(0.5-2.0)

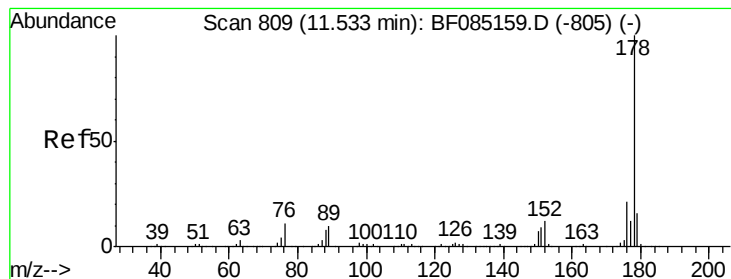
Tgt Ion:188 Resp: 581747  
Ion Ratio Lower Upper  
188 100  
94 7.3 7.0 10.6  
80 7.1 7.4 11.0#



#66  
4-Bromophenyl-phenylether  
Concen: 4.43 ng  
RT: 10.76 min Scan# 741  
Delta R.T. -0.30 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

Tgt Ion:248 Resp: 25046  
Ion Ratio Lower Upper  
248 100  
250 197.4 77.1 115.7#  
141 437.7 66.2 99.2#





#70

Phenanthrene

Concen: 24.25 ng

RT: 11.48 min Scan# 804

Delta R.T. -0.06 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-22(0.5-2.0)

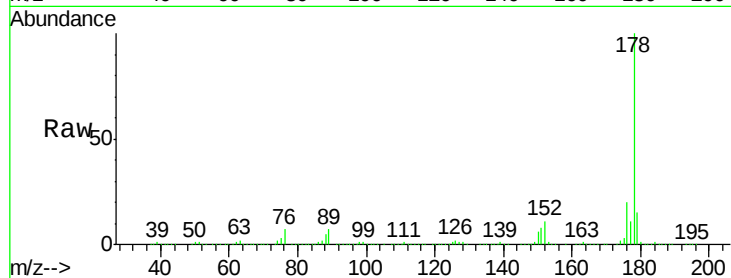
Tgt Ion:178 Resp: 739371

Ion Ratio Lower Upper

178 100

176 19.7 16.8 25.2

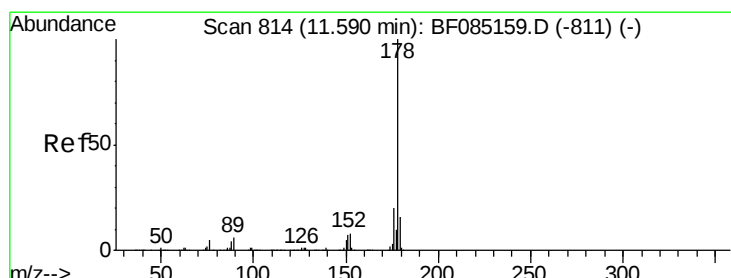
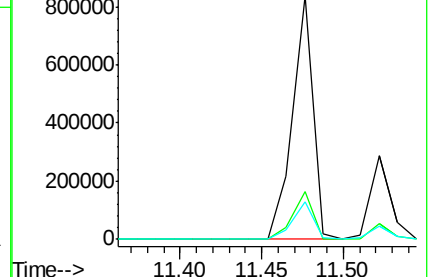
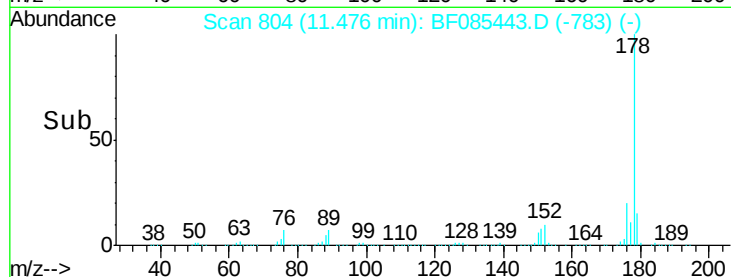
179 15.3 13.1 19.7



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



#71

Anthracene

Concen: 7.64 ng

RT: 11.52 min Scan# 808

Delta R.T. -0.07 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

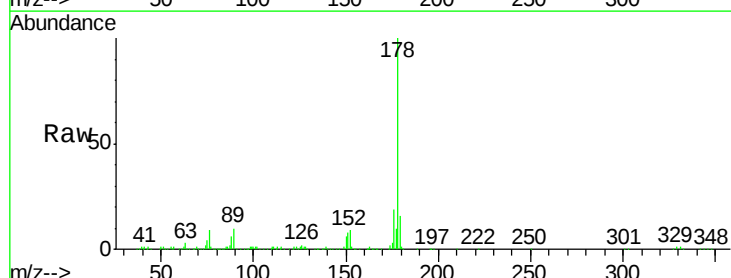
Tgt Ion:178 Resp: 247383

Ion Ratio Lower Upper

178 100

176 18.8 15.9 23.9

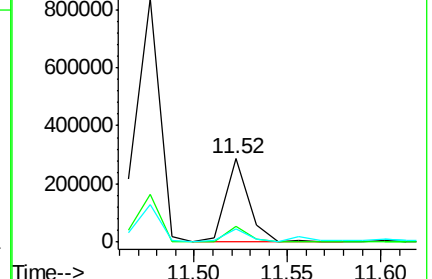
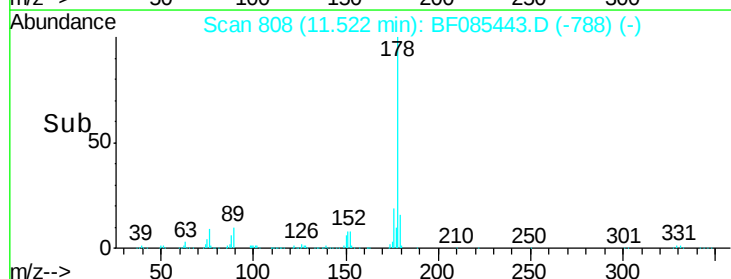
179 15.9 12.5 18.7

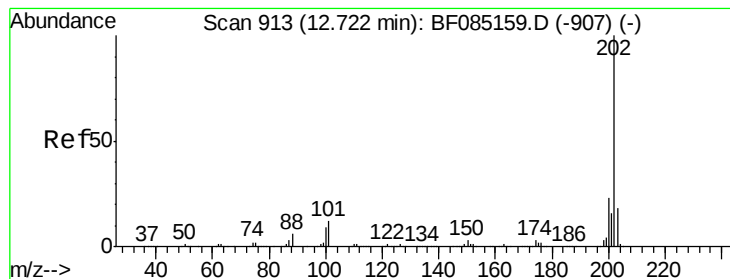


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 35.75 ng

RT: 12.66 min Scan# 908

Delta R.T. -0.06 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-22(0.5-2.0)

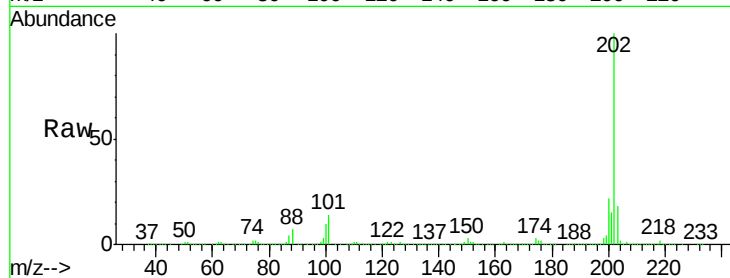
Tgt Ion:202 Resp: 1093780

Ion Ratio Lower Upper

202 100

101 13.6 0.0 31.8

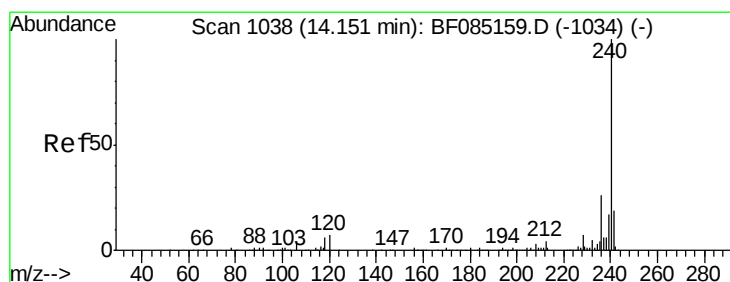
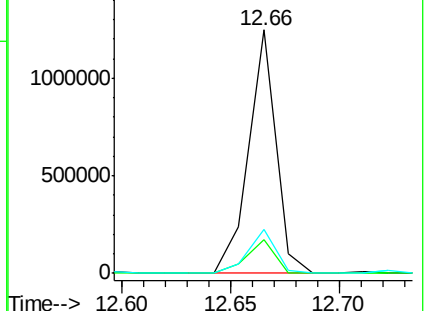
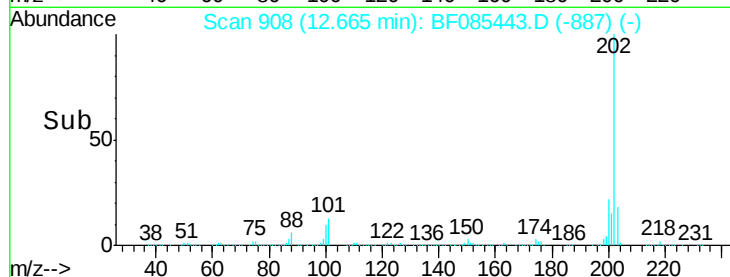
203 18.3 0.0 38.4



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: 14.09 min Scan# 1033

Delta R.T. -0.06 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

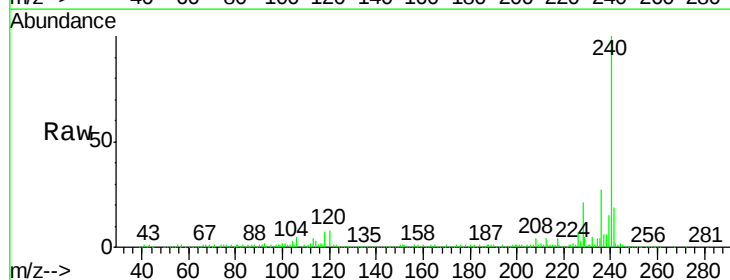
Tgt Ion:240 Resp: 313772

Ion Ratio Lower Upper

240 100

120 7.7 5.3 7.9

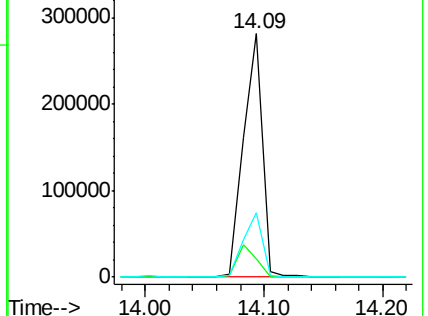
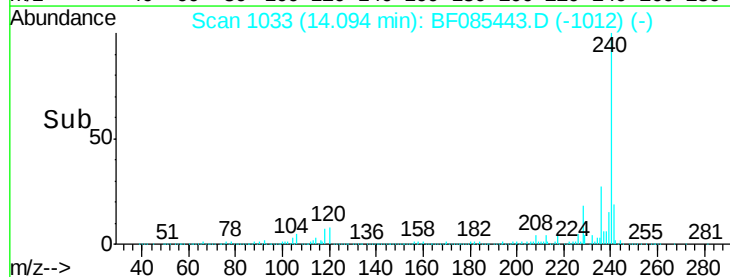
236 26.5 20.7 31.1

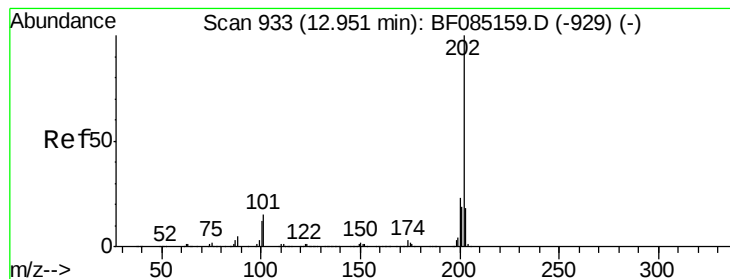


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 41.87 ng

RT: 12.89 min Scan# 928

Delta R.T. -0.06 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-22(0.5-2.0)

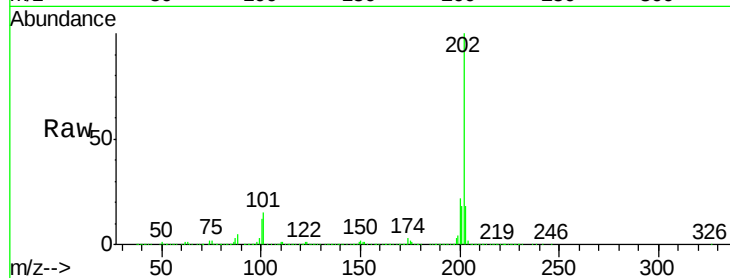
Tgt Ion:202 Resp: 988860

Ion Ratio Lower Upper

202 100

200 22.0 18.2 27.4

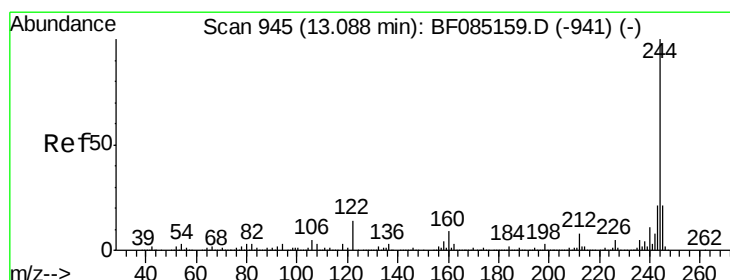
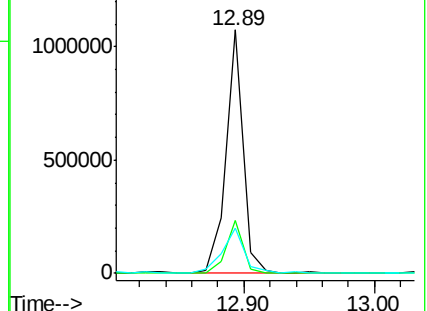
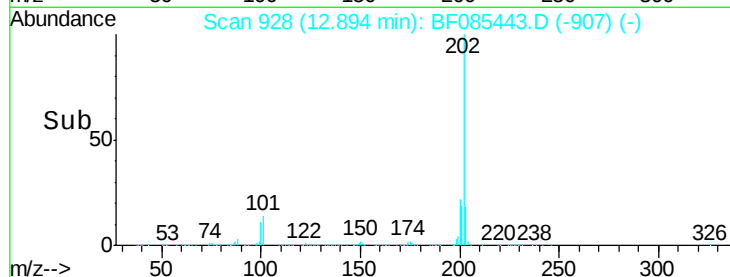
203 18.4 14.7 22.1



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: 81.47 ng

RT: 13.04 min Scan# 941

Delta R.T. -0.05 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

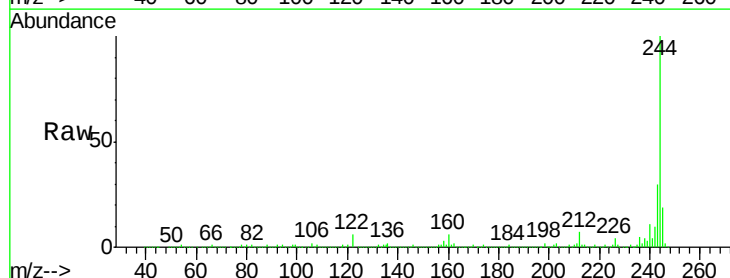
Tgt Ion:244 Resp: 1101118

Ion Ratio Lower Upper

244 100

212 6.6 6.4 9.6

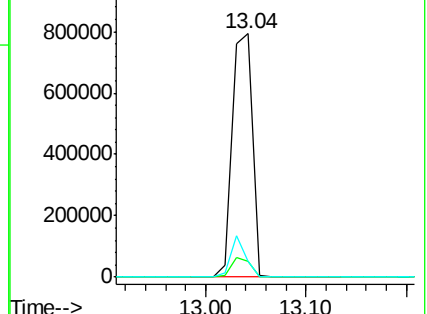
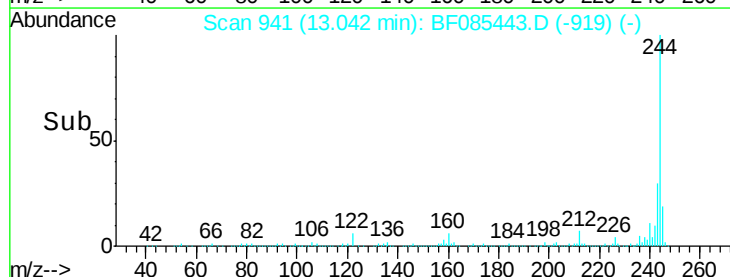
122 6.3 11.4 17.2#

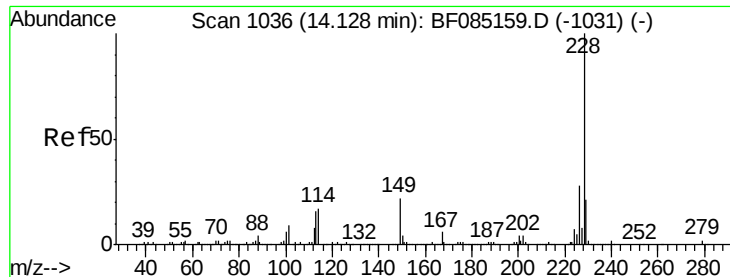


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

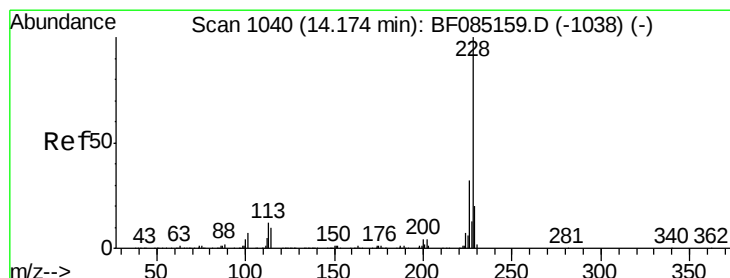
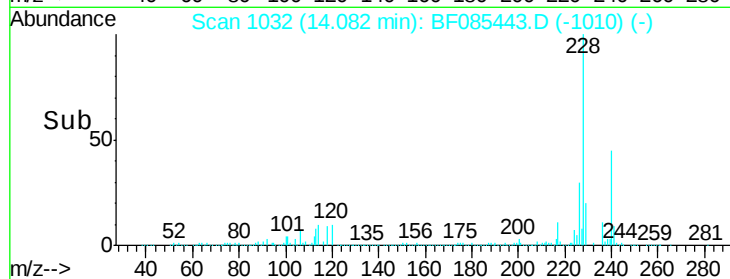
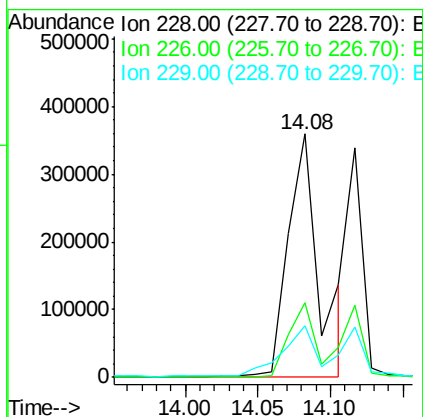
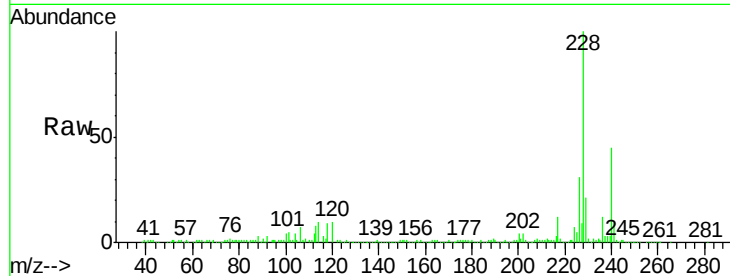




#80  
Benzo(a)anthracene  
Concen: 28.50 ng  
RT: 14.08 min Scan# 1032  
Delta R.T. -0.05 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

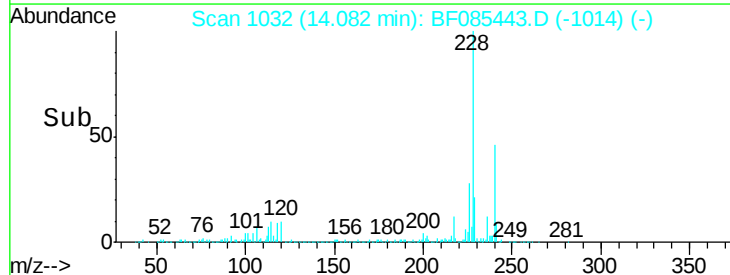
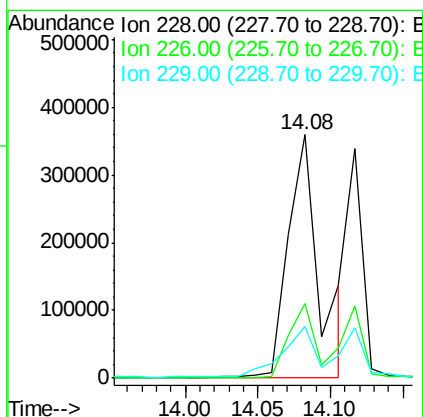
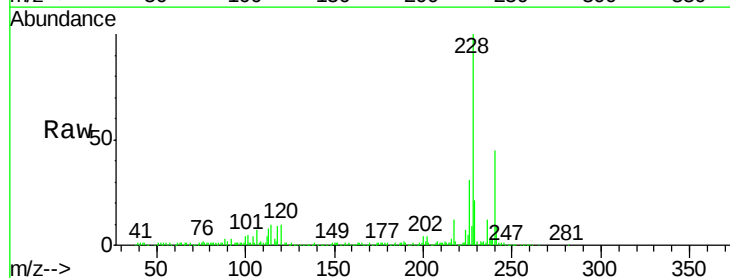
Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-22(0.5-2.0)

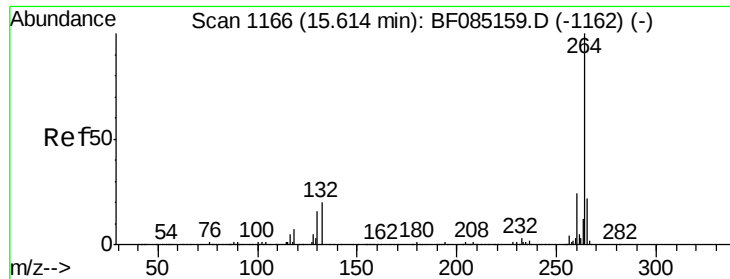
Tgt Ion:228 Resp: 535400  
Ion Ratio Lower Upper  
228 100  
226 30.5 22.8 34.2  
229 21.0 16.6 24.8



#82  
Chrysene  
Concen: 30.85 ng  
RT: 14.08 min Scan# 1032  
Delta R.T. -0.09 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

Tgt Ion:228 Resp: 535400  
Ion Ratio Lower Upper  
228 100  
226 30.5 25.2 37.8  
229 21.0 16.0 24.0



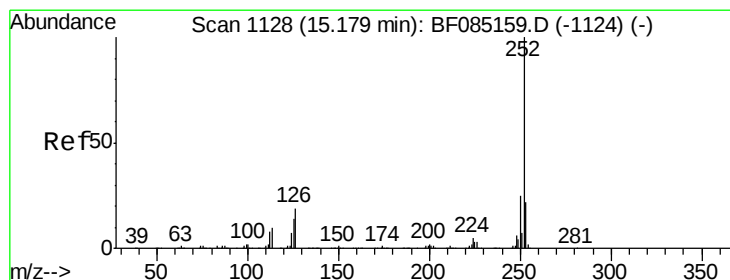
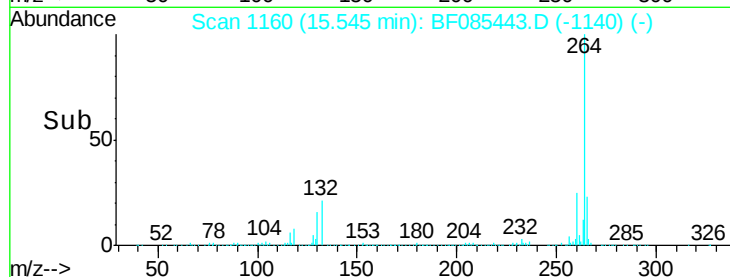
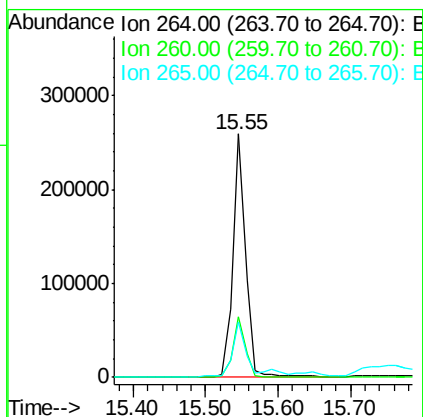
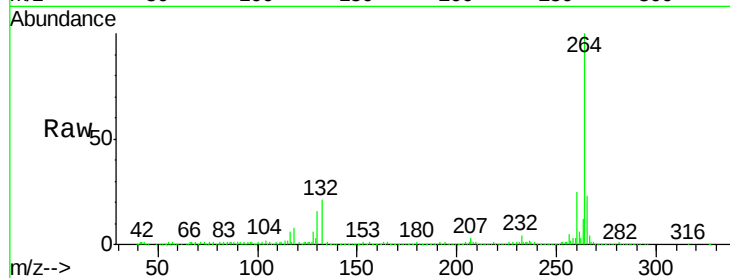


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.55 min Scan# 1160  
Delta R.T. -0.07 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-22(0.5-2.0)

Tgt Ion: 264 Resp: 318449  

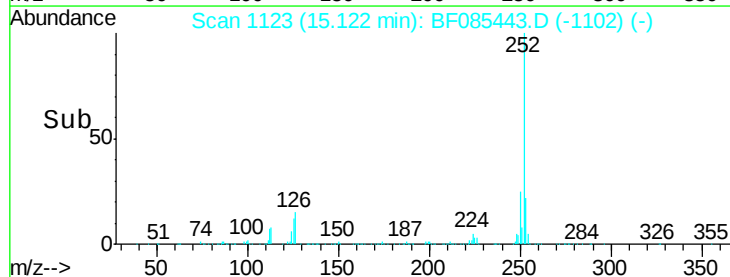
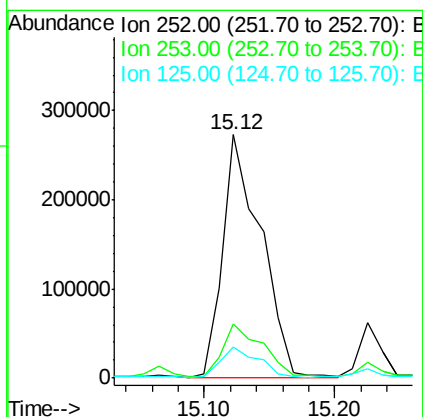
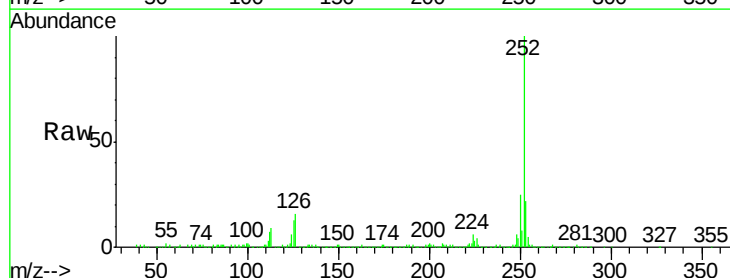
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.7  | 19.2  | 28.8  |
| 265 | 22.8  | 17.3  | 25.9  |

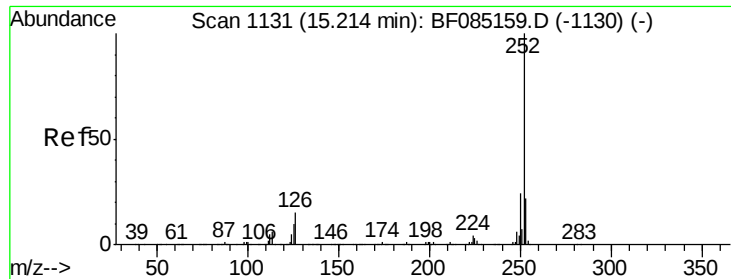


#87  
Benzo(b)fluoranthene  
Concen: 26.04 ng  
RT: 15.12 min Scan# 1123  
Delta R.T. -0.06 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

Tgt Ion: 252 Resp: 552705  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.4  | 17.8  | 26.6  |
| 125 | 12.8  | 11.3  | 16.9  |

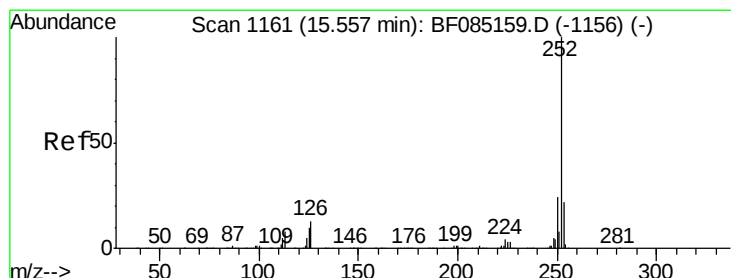
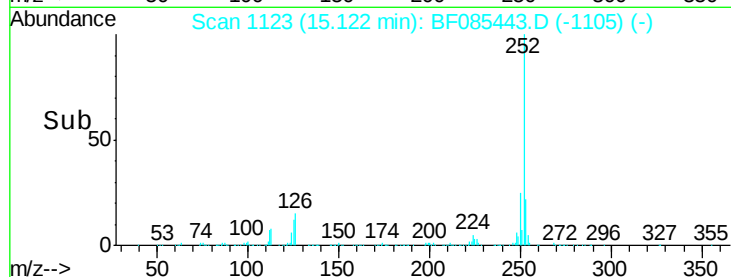
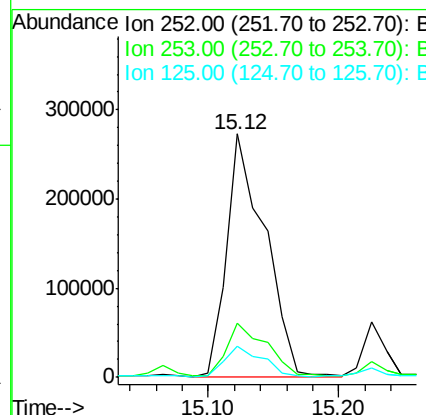
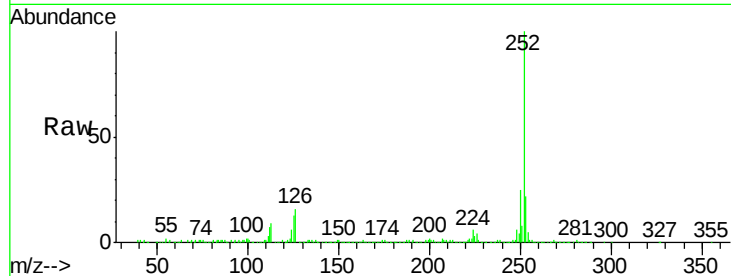




#88  
Benzo(k)fluoranthene  
Concen: 32.28 ng  
RT: 15.12 min Scan# 1123  
Delta R.T. -0.09 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

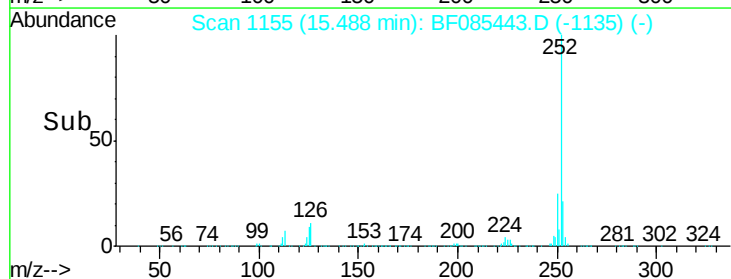
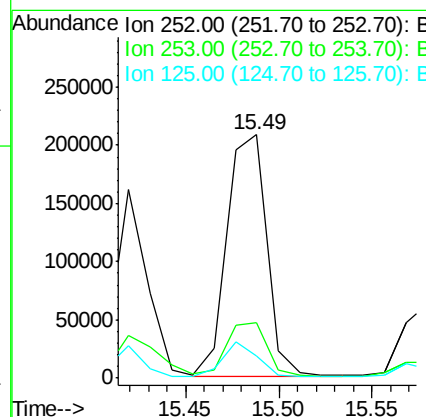
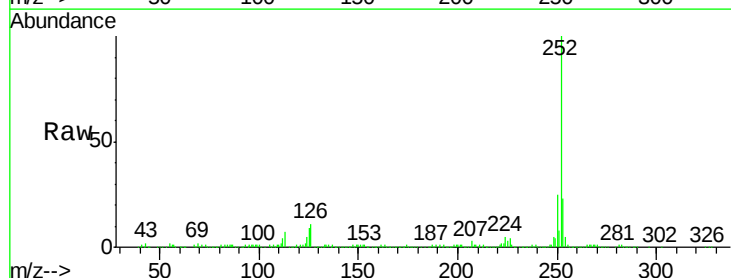
Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-22(0.5-2.0)

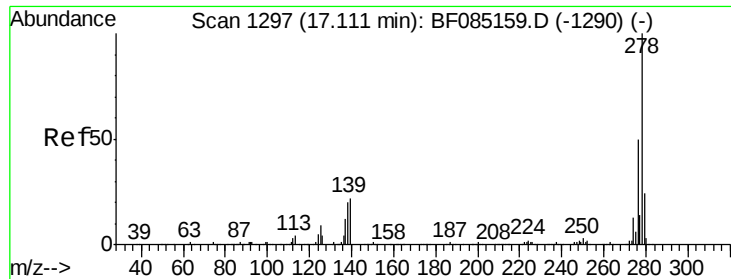
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.8  | 26.6  |
| 125     | 12.8  | 10.4  | 15.6  |



#89  
Benzo(a)pyrene  
Concen: 17.74 ng  
RT: 15.49 min Scan# 1155  
Delta R.T. -0.07 min  
Lab File: BF085443.D  
Acq: 14 Mar 2016 21:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.4  | 26.0  |
| 125     | 9.3   | 8.2   | 12.4  |





#90

Dibenzo(a,h)anthracene

Concen: 3.35 ng

RT: 17.00 min Scan# 1287

Delta R.T. -0.11 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-22(0.5-2.0)

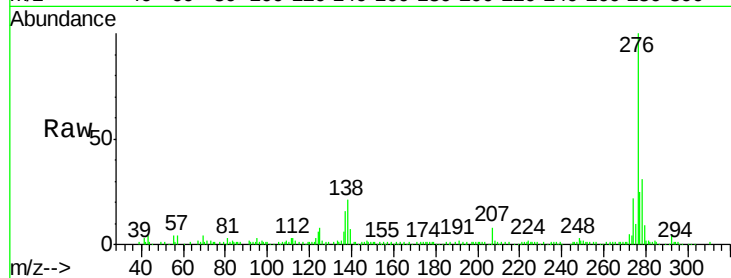
Tgt Ion:278 Resp: 50236

Ion Ratio Lower Upper

278 100

139 21.1 17.3 25.9

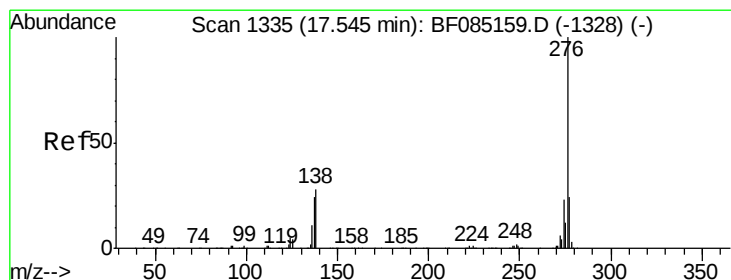
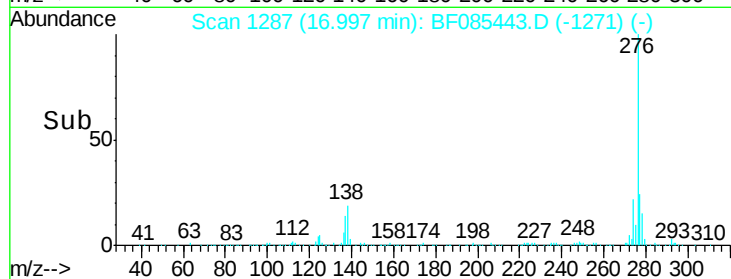
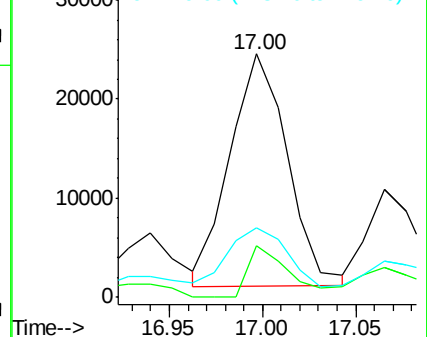
279 28.8 19.2 28.8



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 10.80 ng

RT: 17.43 min Scan# 1325

Delta R.T. -0.11 min

Lab File: BF085443.D

Acq: 14 Mar 2016 21:53

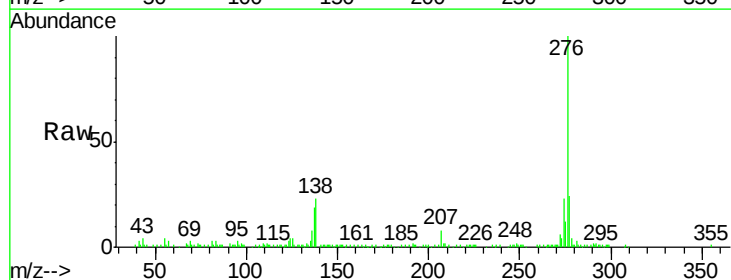
Tgt Ion:276 Resp: 163117

Ion Ratio Lower Upper

276 100

277 24.0 19.0 28.4

138 23.2 22.5 33.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

