

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
 Data File : BF098338.D  
 Acq On : 8 Sep 2017 3:15  
 Operator : SJ/JU  
 Sample : I5131-01  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-D-B

Quant Time: Sep 08 04:38:04 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

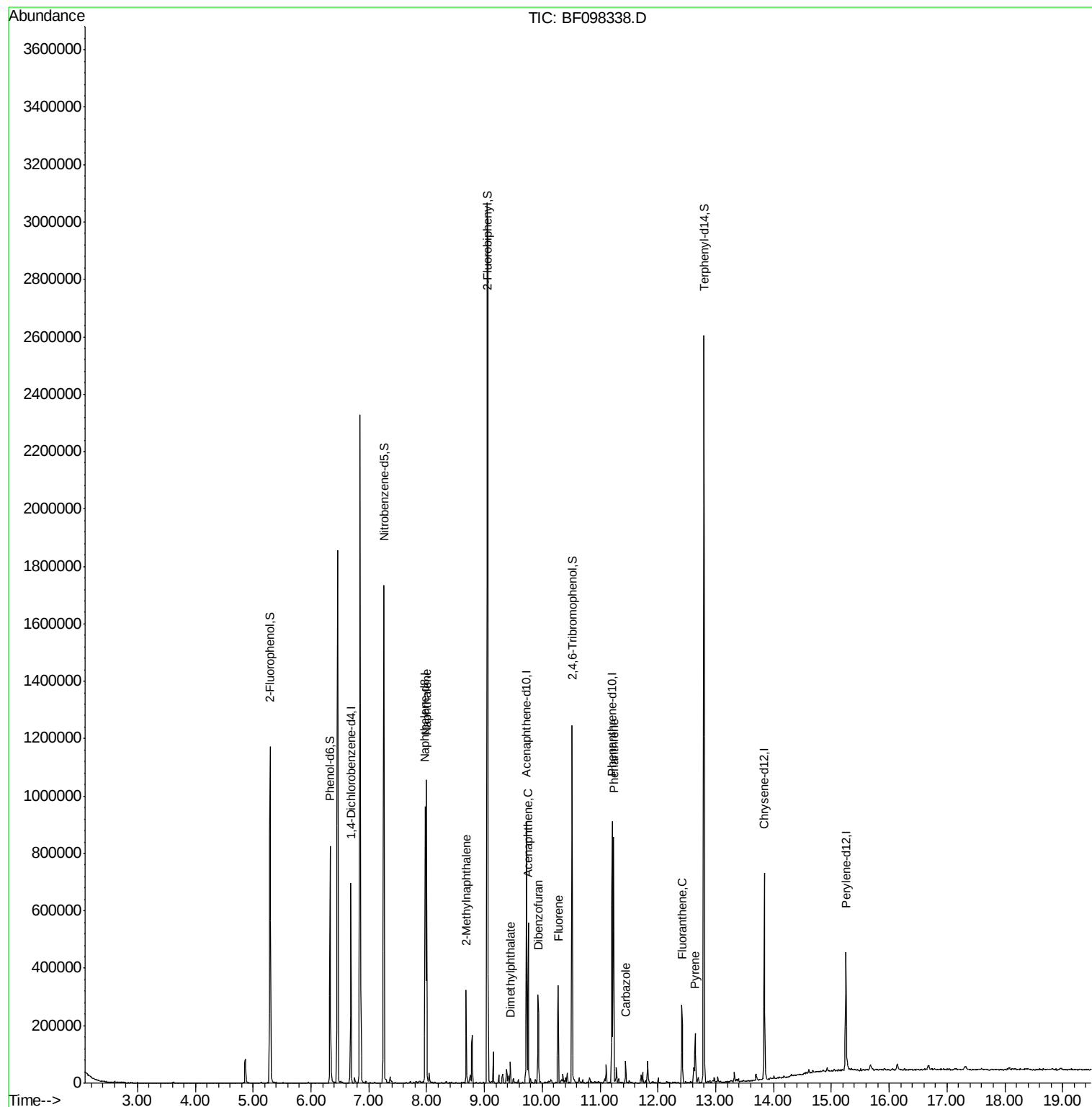
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.69  | 152  | 103423   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 7.97  | 136  | 397608   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.73  | 164  | 165844   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.21 | 188  | 300218   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.84 | 240  | 239723   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 15.25 | 264  | 166554   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.29  | 112  | 328729   | 48.35  | ng    | -0.01    |
| 7) Phenol-d6                | 6.33  | 99   | 285914   | 30.95  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 713719   | 97.51  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 137867   | 95.81  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 1064714  | 94.32  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 832359   | 72.41  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.00  | 128  | 458379   | 22.206 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.69  | 142  | 75790    | 5.989  | ng    | 98       |
| 49) Dimethylphthalate       | 9.44  | 163  | 25445    | 2.099  | ng    | 98       |
| 51) Acenaphthene            | 9.76  | 154  | 106256   | 9.601  | ng    | 97       |
| 54) Dibenzofuran            | 9.93  | 168  | 112251   | 7.568  | ng    | 99       |
| 57) Fluorene                | 10.27 | 166  | 95713    | 8.346  | ng    | 98       |
| 70) Phenanthrene            | 11.23 | 178  | 276888   | 17.308 | ng    | 98       |
| 72) Carbazole               | 11.44 | 167  | 31016    | 2.014  | ng    | # 96     |
| 74) Fluoranthene            | 12.42 | 202  | 100901   | 6.043  | ng    | 97       |
| 77) Pyrene                  | 12.64 | 202  | 64428    | 3.286  | ng    | 97       |

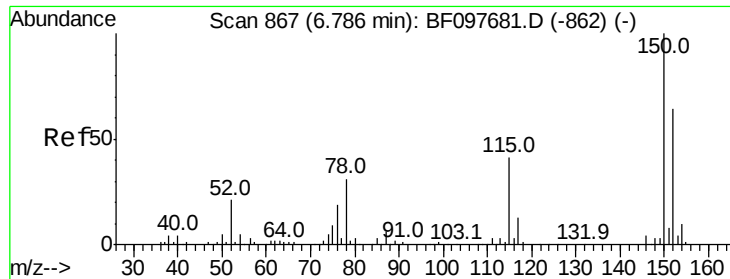
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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090517-TIDO-F-D-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 05 17:28:20 2017  
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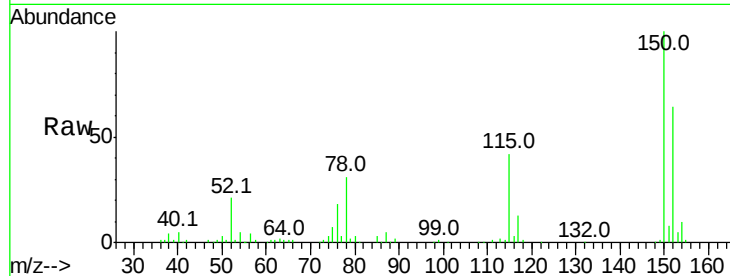


#1

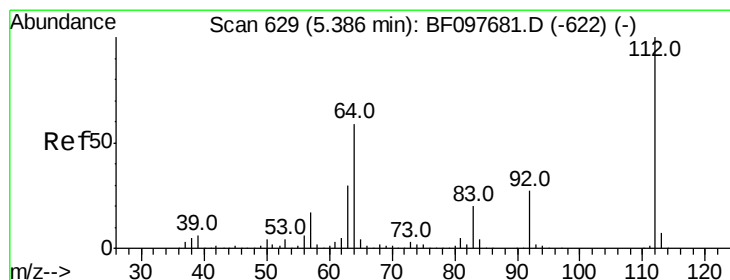
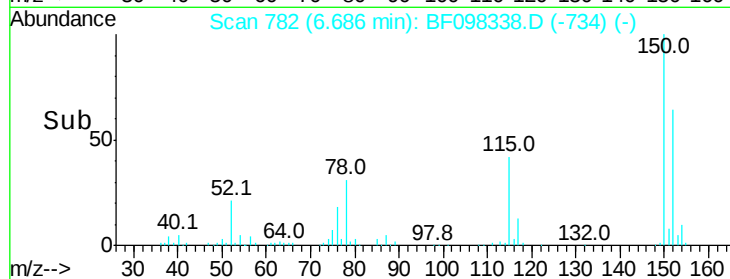
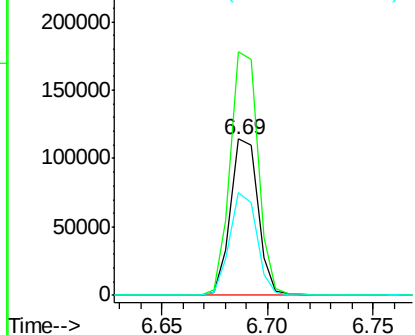
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.69 min Scan# 782  
 Delta R.T. -0.02 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-D-B

Tot Ion:152 Resp: 103423  
 Ion Ratio Lower Upper  
 152 100  
 150 155.7 126.2 189.2  
 115 66.0 52.2 78.2



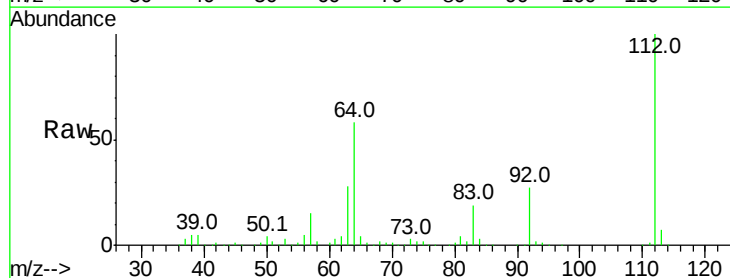
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



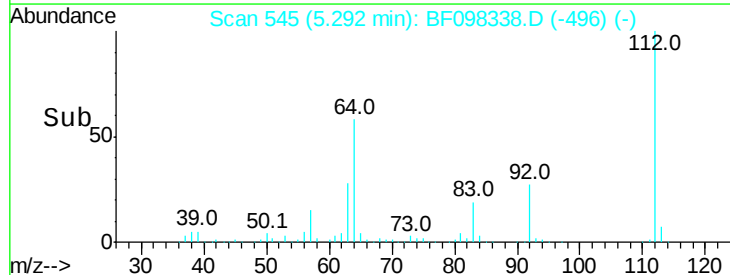
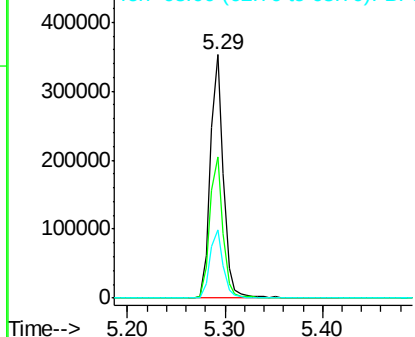
#5

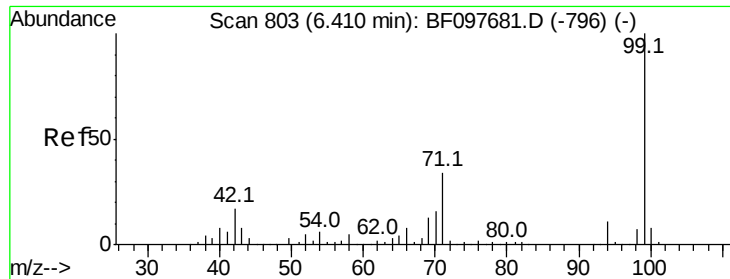
2-Fluorophenol  
 Concen: 48.347 ng  
 RT: 5.29 min Scan# 545  
 Delta R.T. -0.01 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

Tgt Ion:112 Resp: 328729  
 Ion Ratio Lower Upper  
 112 100  
 64 58.0 46.0 69.0  
 63 28.2 23.4 35.0



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: 30.949 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.02 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-D-B

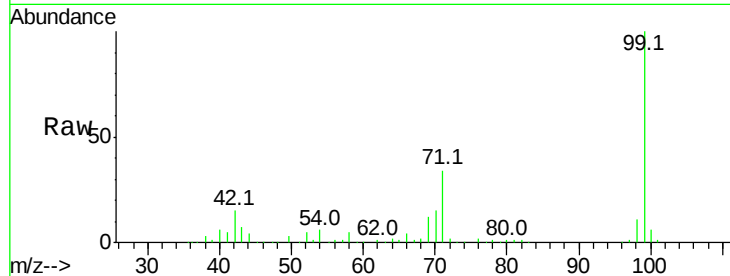
Tot Ion: 99 Resp: 285914

Ion Ratio Lower Upper

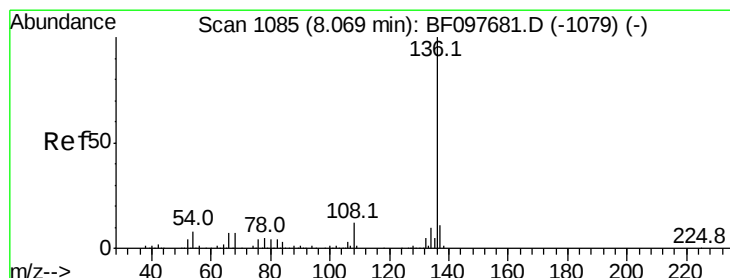
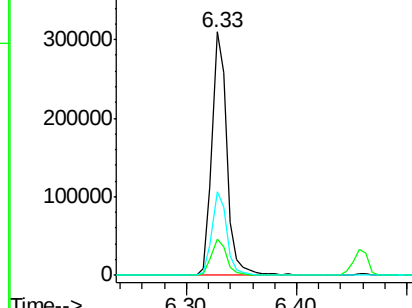
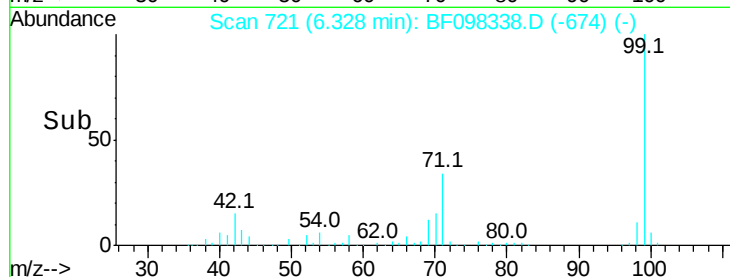
99 100

42 14.9 13.5 20.3

71 34.1 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

Tgt Ion: 136 Resp: 397608

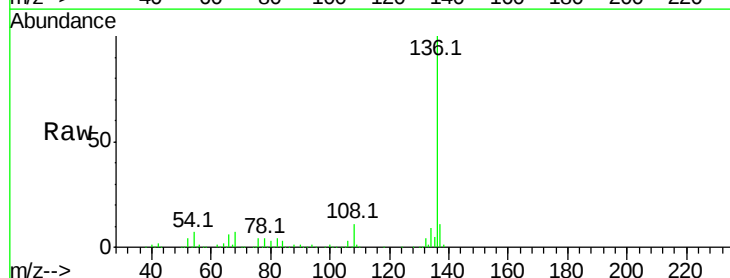
Ion Ratio Lower Upper

136 100

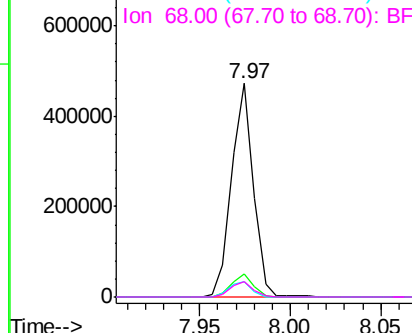
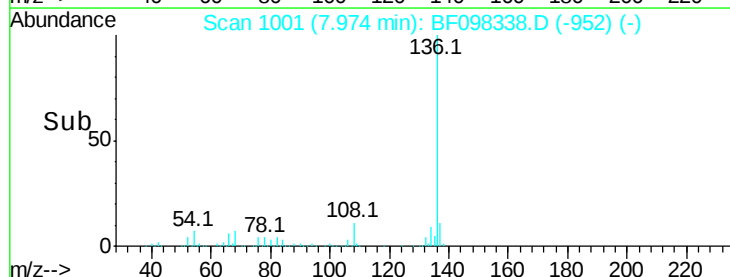
137 10.6 8.5 12.7

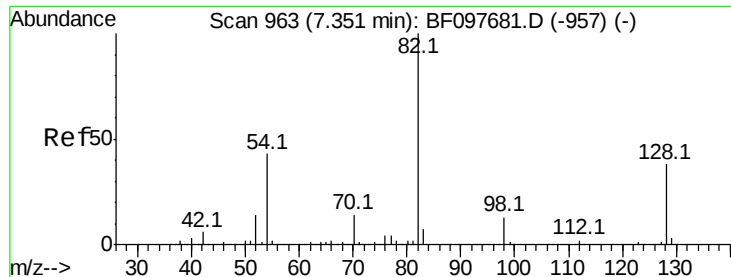
54 7.3 4.9 7.3#

68 7.3 4.1 6.1#



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

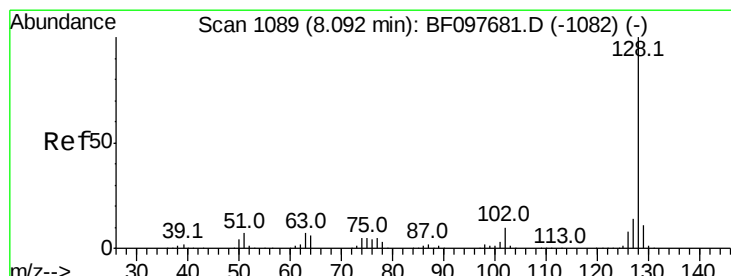
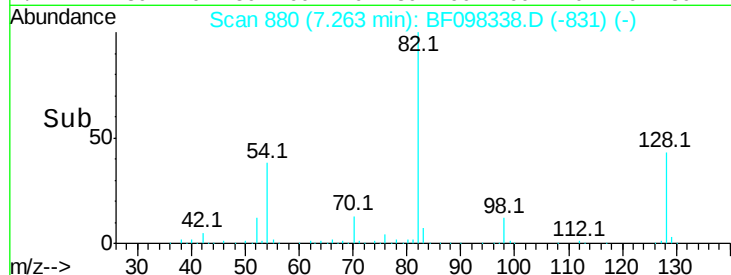
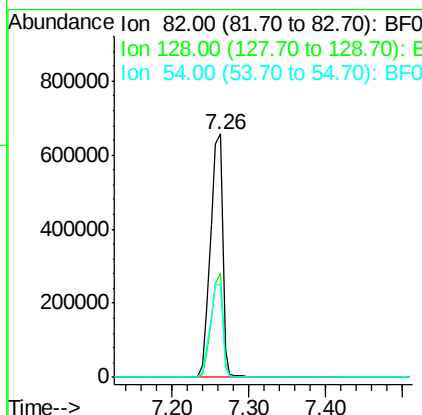
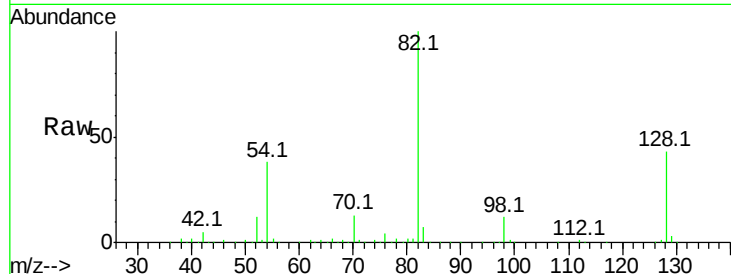




#23  
 Nitrobenzene-d5  
 Concen: 97.514 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.01 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

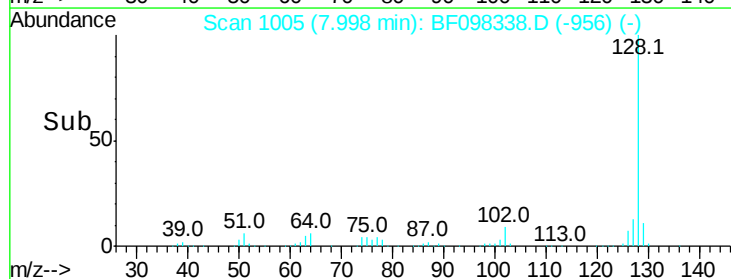
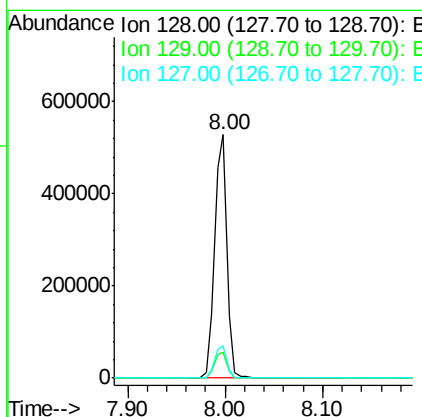
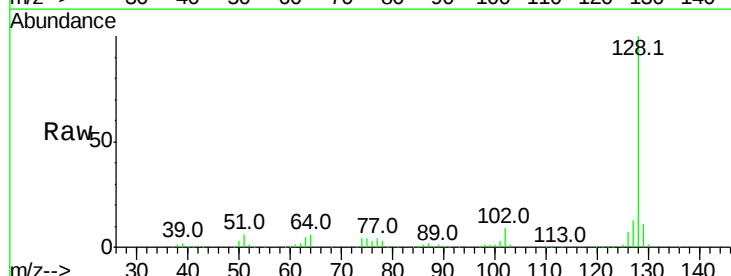
Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-D-B

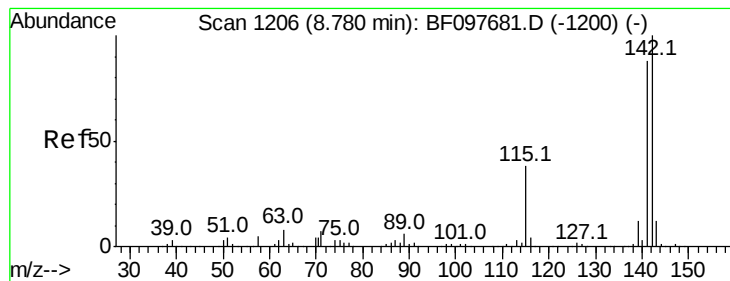
Tot Ion: 82 Resp: 713719  
 Ion Ratio Lower Upper  
 82 100  
 128 42.7 34.0 51.0  
 54 38.0 42.2 63.2#



#31  
 Naphthalene  
 Concen: 22.206 ng  
 RT: 8.00 min Scan# 1005  
 Delta R.T. -0.01 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

Tgt Ion: 128 Resp: 458379  
 Ion Ratio Lower Upper  
 128 100  
 129 10.8 9.0 13.6  
 127 13.4 10.8 16.2





#37

2-Methylnaphthalene

Concen: 5.989 ng

RT: 8.69 min Scan# 1122

Delta R.T. -0.02 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-D-B

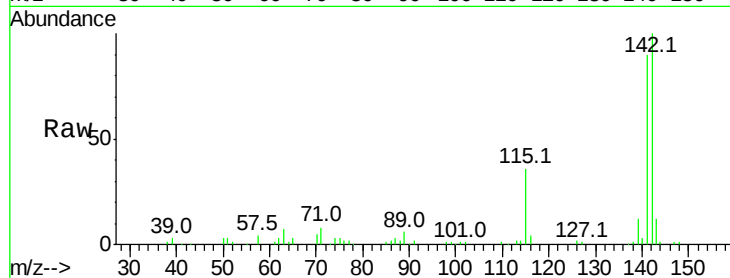
Tot Ion:142 Resp: 75790

Ion Ratio Lower Upper

142 100

141 89.9 71.3 106.9

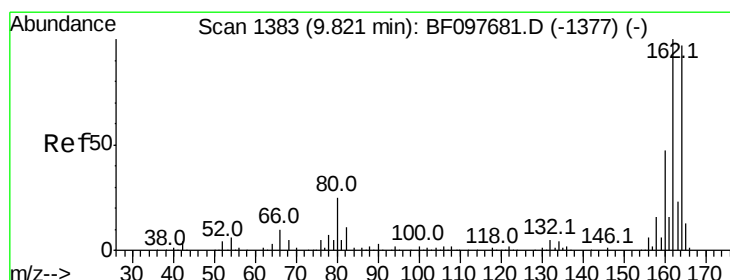
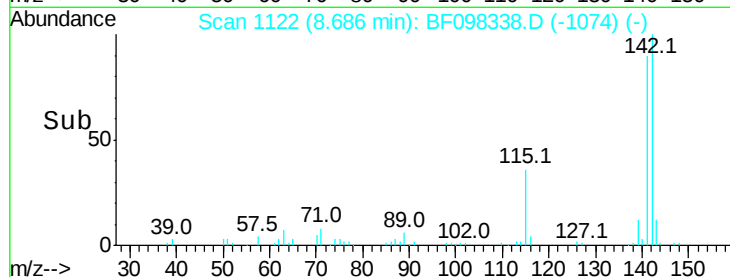
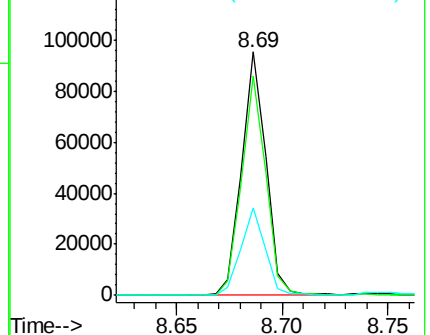
115 35.9 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

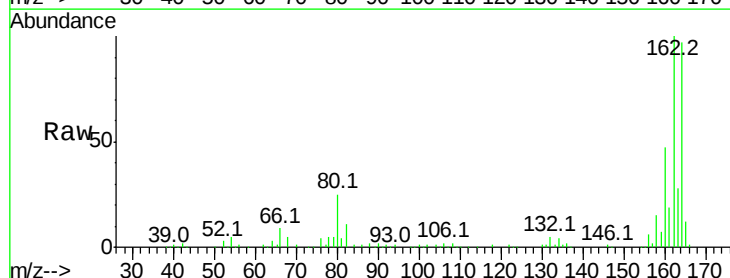
Tgt Ion:164 Resp: 165844

Ion Ratio Lower Upper

164 100

162 102.6 82.6 123.8

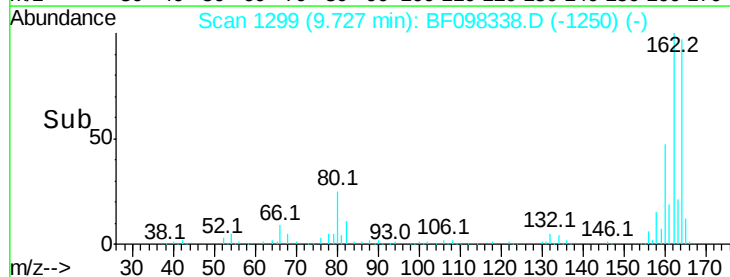
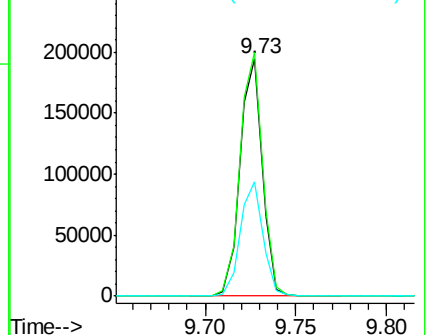
160 47.9 36.2 54.2

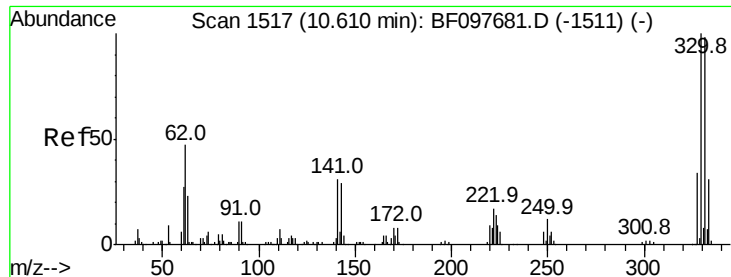


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

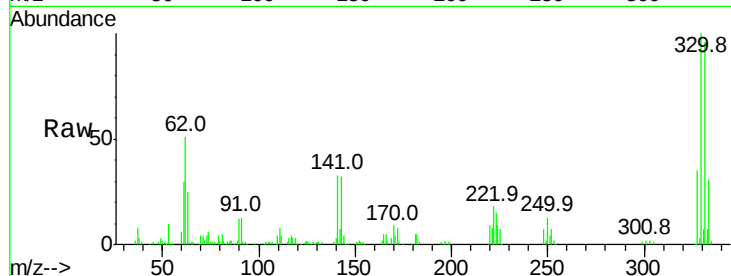




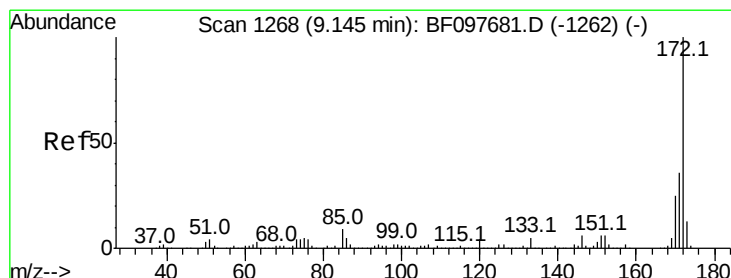
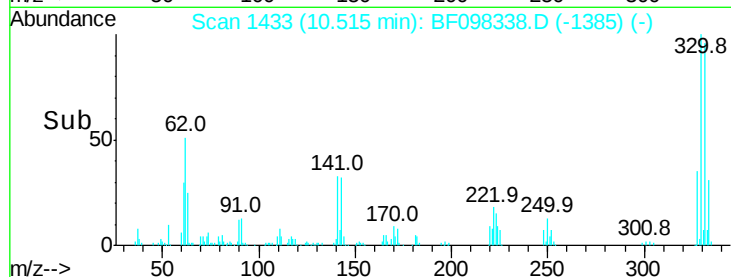
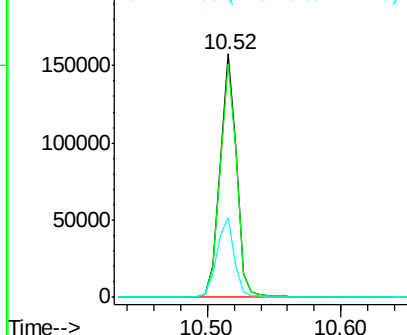
#41  
 2,4,6-Tribromophenol  
 Concen: 95.810 ng  
 RT: 10.52 min Scan# 1433  
 Delta R.T. -0.02 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-D-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.6  | 115.0 |
| 141     | 34.6  | 31.4  | 47.2  |

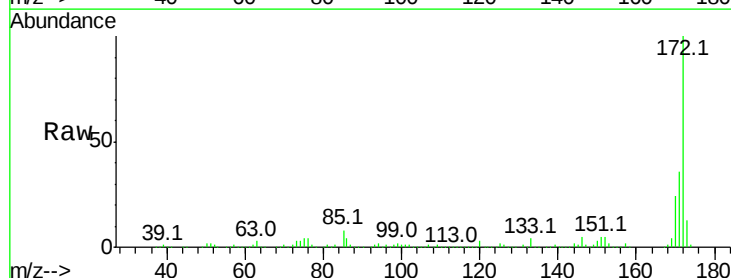


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

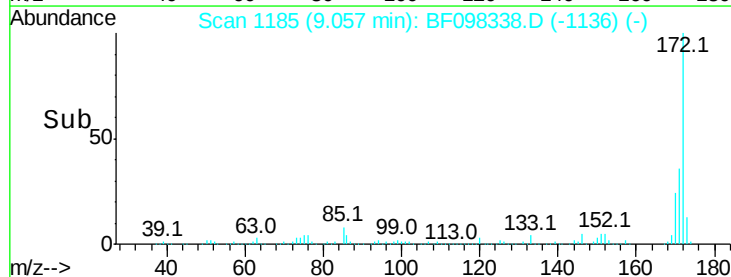
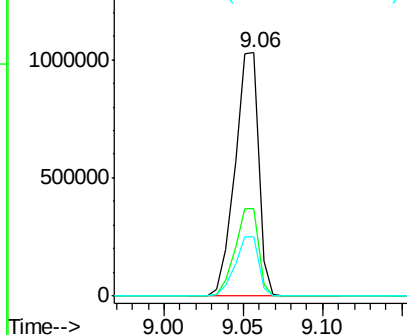


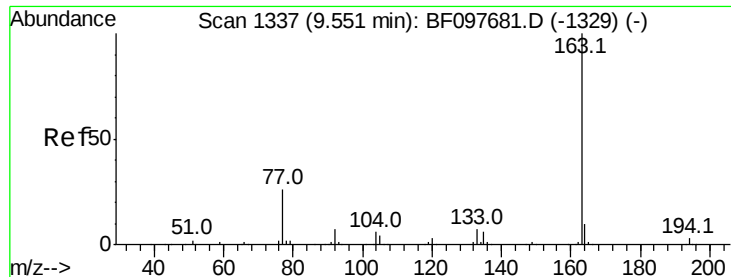
#44  
 2-Fluorobiphenyl  
 Concen: 94.323 ng  
 RT: 9.06 min Scan# 1185  
 Delta R.T. -0.01 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.6  | 44.4  |
| 170     | 24.3  | 19.8  | 29.8  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

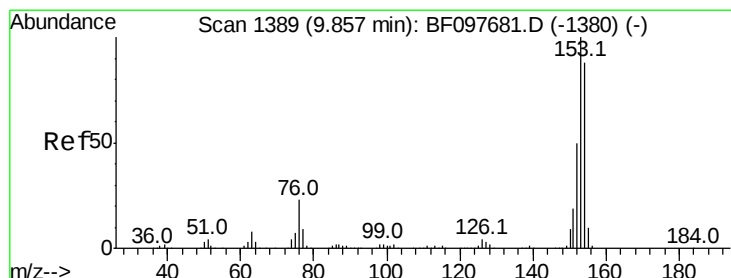
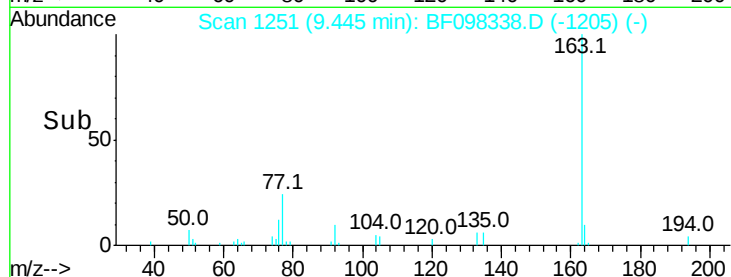
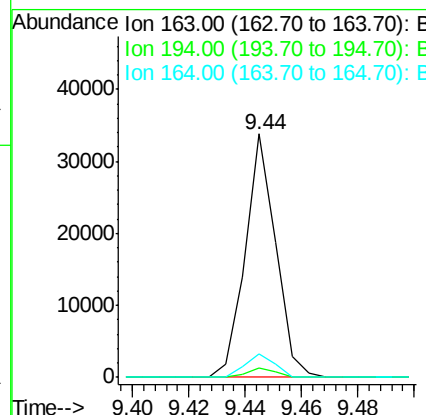
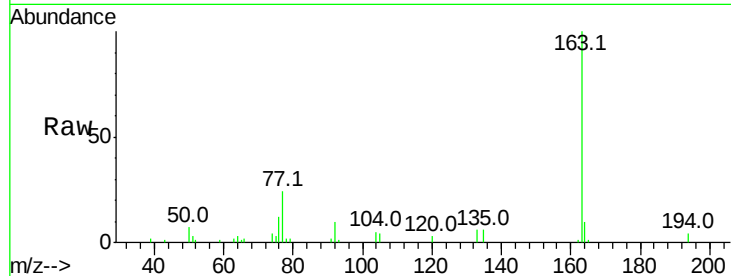




#49  
Dimethylphthalate  
Concen: 2.099 ng  
RT: 9.44 min Scan# 1251  
Delta R.T. -0.03 min  
Lab File: BF098338.D  
Acq: 8 Sep 2017 3:15

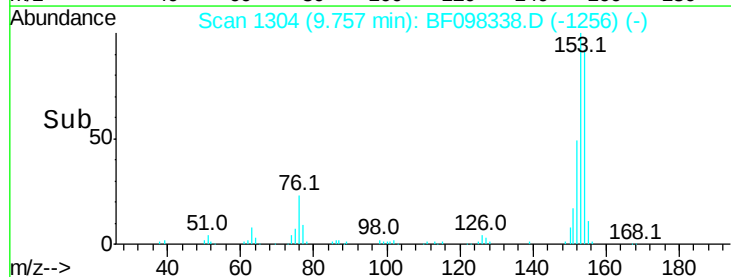
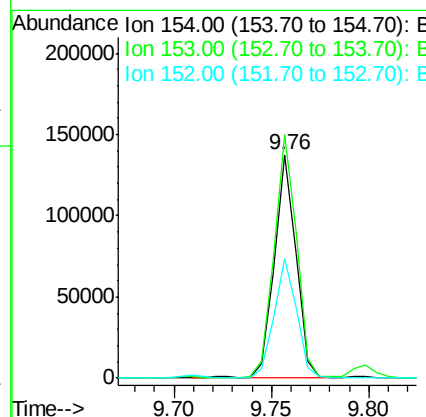
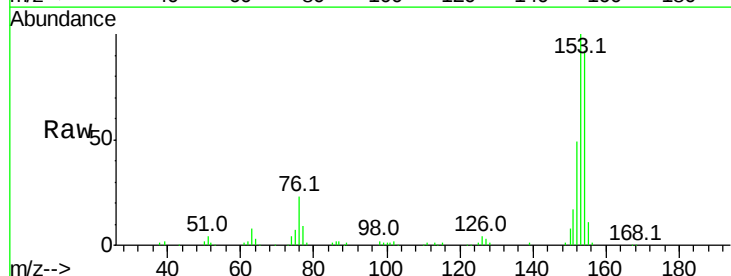
Instrument :  
BNA\_F  
ClientSampleId :  
090517-TIDO-F-D-B

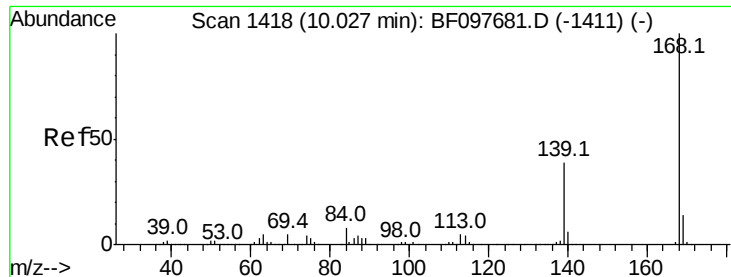
Tot Ion:163 Resp: 25445  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.6 4.0  
164 9.6 8.4 12.6



#51  
Acenaphthene  
Concen: 9.601 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.02 min  
Lab File: BF098338.D  
Acq: 8 Sep 2017 3:15

Tgt Ion:154 Resp: 106256  
Ion Ratio Lower Upper  
154 100  
153 109.1 90.5 135.7  
152 53.8 43.6 65.4

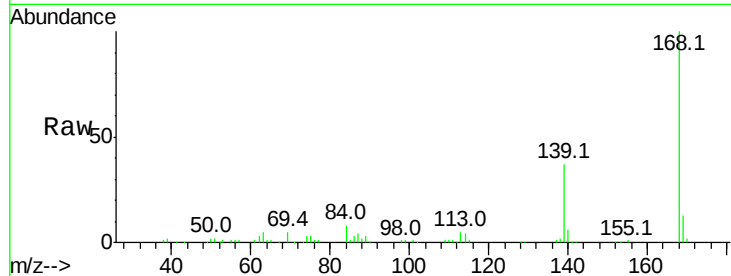




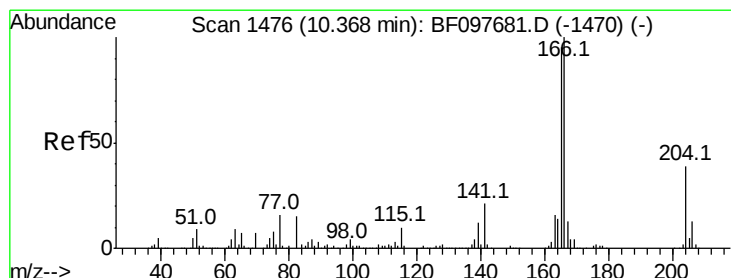
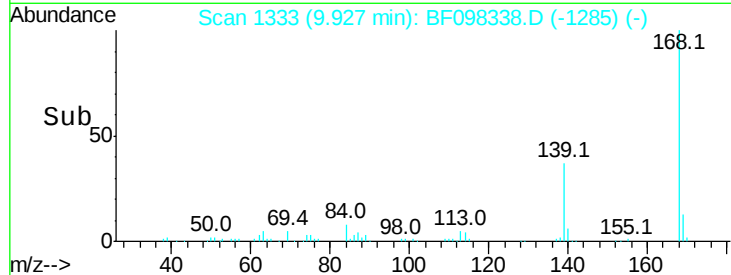
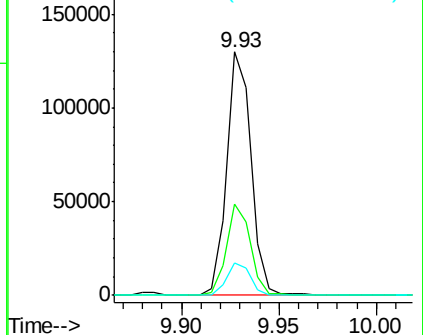
#54  
Dibenzenofuran  
Concen: 7.568 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.02 min  
Lab File: BF098338.D  
Acq: 8 Sep 2017 3:15

Instrument :  
BNA\_F  
ClientSampleId :  
090517-TIDO-F-D-B

Tot Ion:168 Resp: 112251  
Ion Ratio Lower Upper  
168 100  
139 37.3 30.6 45.8  
169 13.3 10.8 16.2

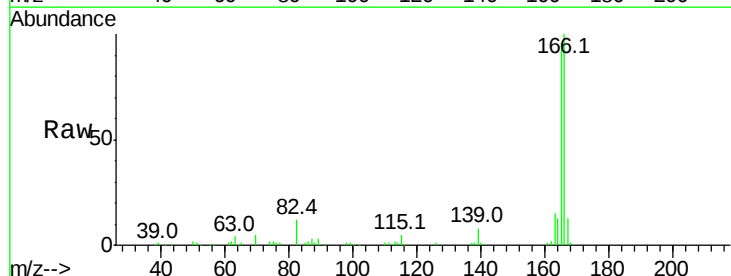


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

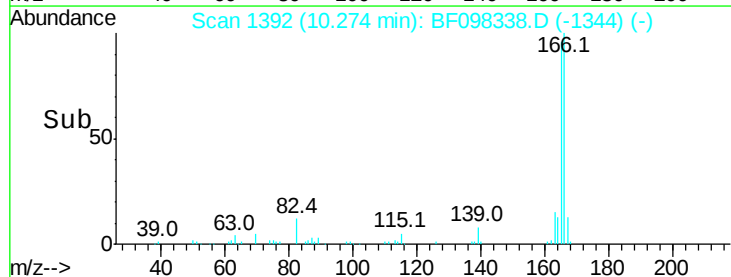
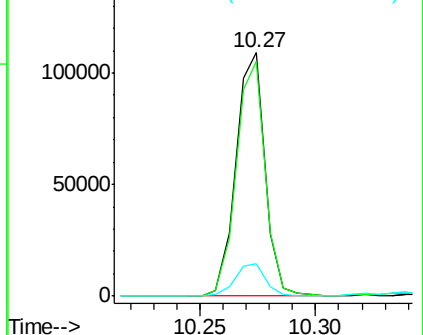


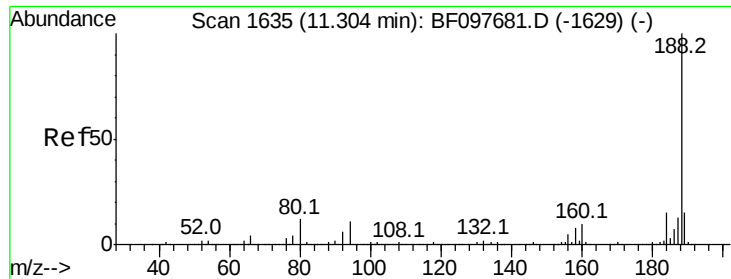
#57  
Fluorene  
Concen: 8.346 ng  
RT: 10.27 min Scan# 1392  
Delta R.T. -0.02 min  
Lab File: BF098338.D  
Acq: 8 Sep 2017 3:15

Tgt Ion:166 Resp: 95713  
Ion Ratio Lower Upper  
166 100  
165 96.2 78.8 118.2  
167 13.1 10.6 16.0



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

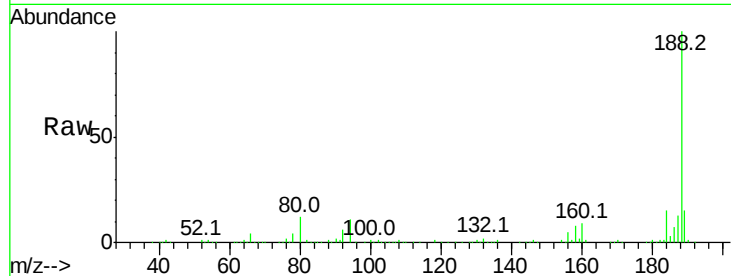




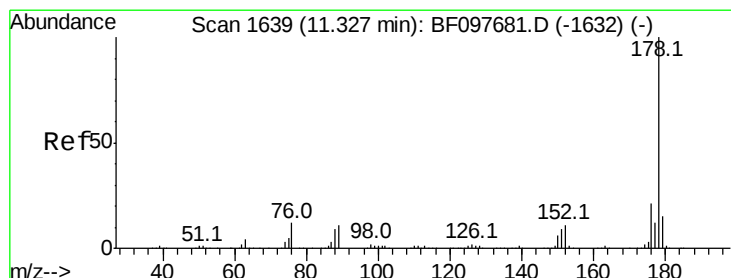
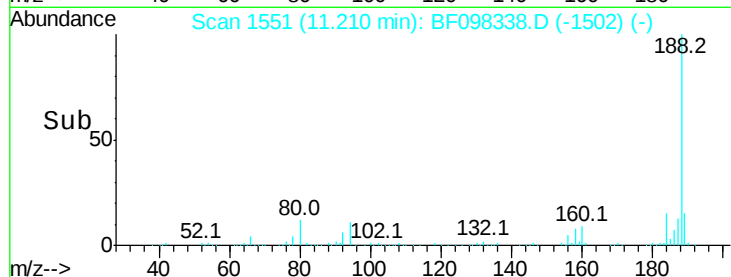
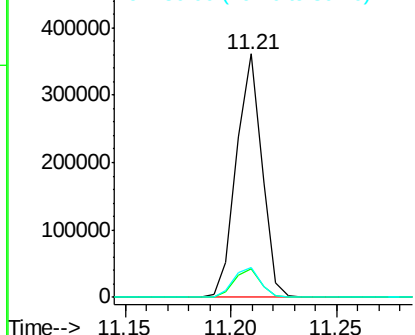
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.21 min Scan# 1551  
Delta R.T. -0.01 min  
Lab File: BF098338.D  
Acq: 8 Sep 2017 3:15

Instrument :  
BNA\_F  
ClientSampleId :  
090517-TIDO-F-D-B

Tot Ion:188 Resp: 300218  
Ion Ratio Lower Upper  
188 100  
94 11.5 9.4 14.2  
80 12.2 10.2 15.2

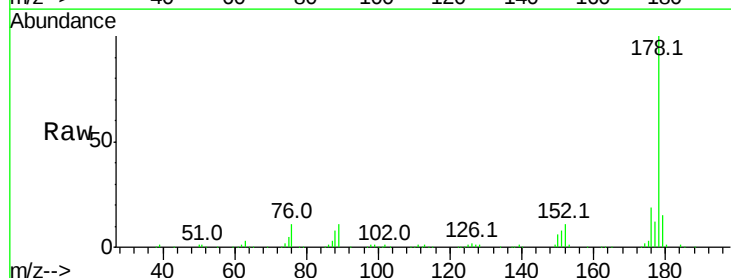


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

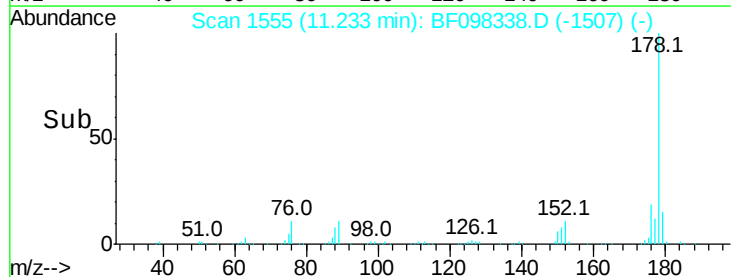
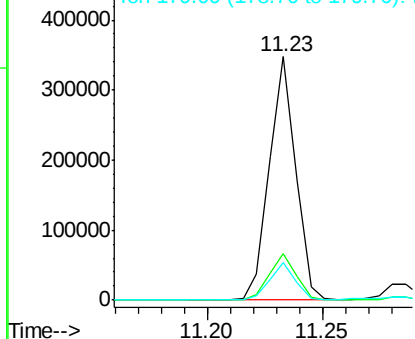


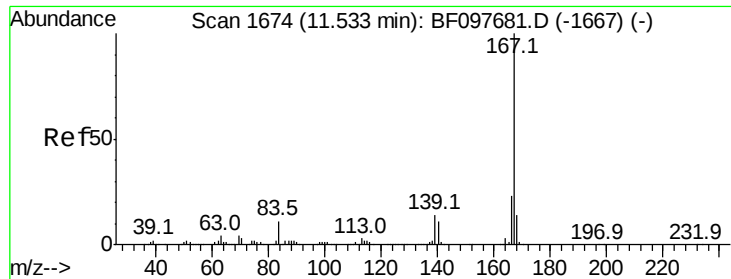
#70  
Phenanthrene  
Concen: 17.308 ng  
RT: 11.23 min Scan# 1555  
Delta R.T. -0.02 min  
Lab File: BF098338.D  
Acq: 8 Sep 2017 3:15

Tgt Ion:178 Resp: 276888  
Ion Ratio Lower Upper  
178 100  
176 19.2 16.2 24.4  
179 15.2 12.6 19.0



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

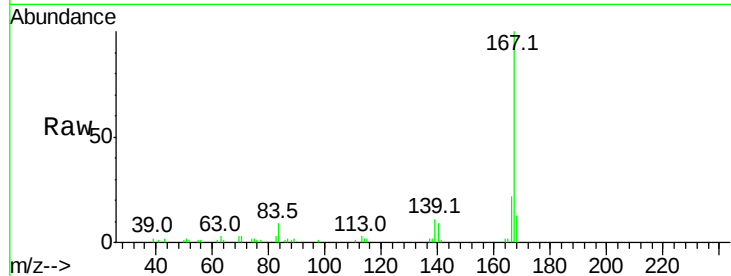




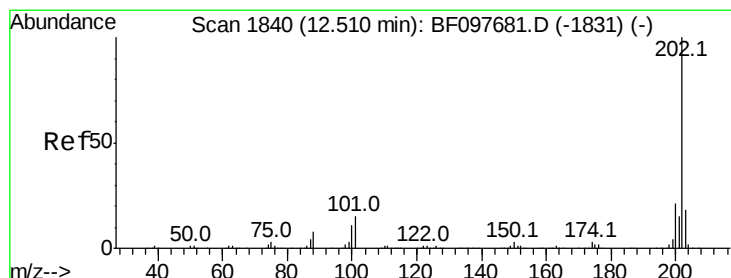
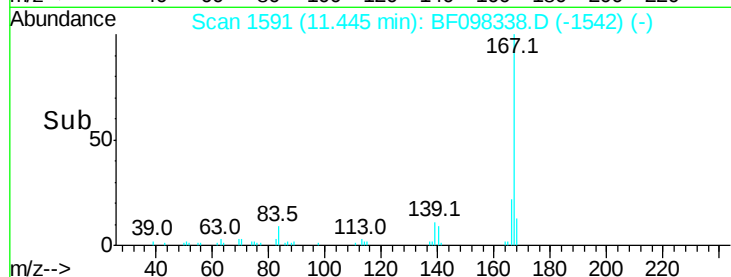
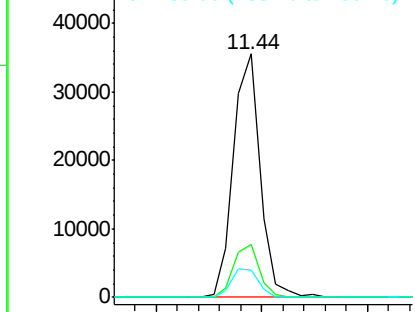
#72  
 Carbazole  
 Concen: 2.014 ng  
 RT: 11.44 min Scan# 1591  
 Delta R.T. -0.01 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 090517-TIDO-F-D-B

Tot Ion:167 Resp: 31016  
 Ion Ratio Lower Upper  
 167 100  
 166 21.6 18.1 27.1  
 139 11.4 11.7 17.5#

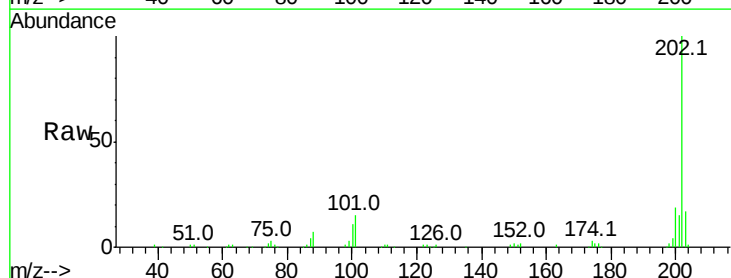


Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

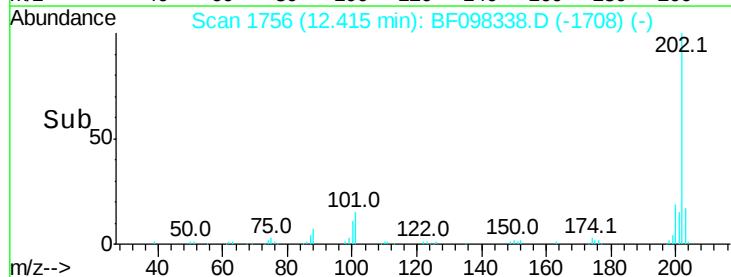
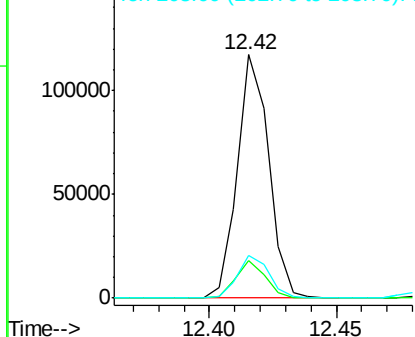


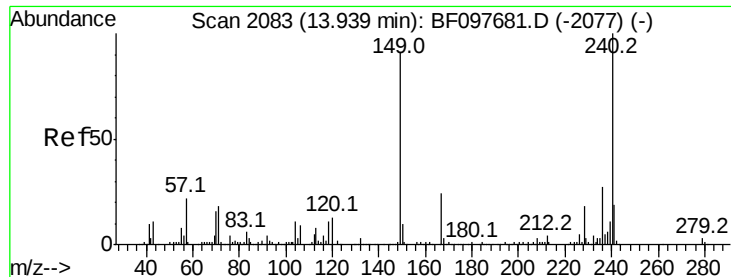
#74  
 Fluoranthene  
 Concen: 6.043 ng  
 RT: 12.42 min Scan# 1756  
 Delta R.T. -0.02 min  
 Lab File: BF098338.D  
 Acq: 8 Sep 2017 3:15

Tgt Ion:202 Resp: 100901  
 Ion Ratio Lower Upper  
 202 100  
 101 15.2 0.0 33.2  
 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: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.02 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-D-B

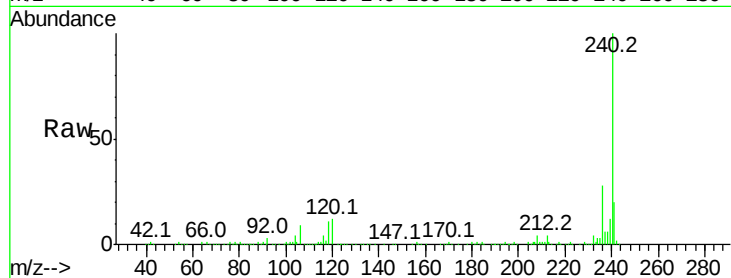
Tot Ion:240 Resp: 239723

Ion Ratio Lower Upper

240 100

120 12.2 5.8 8.8#

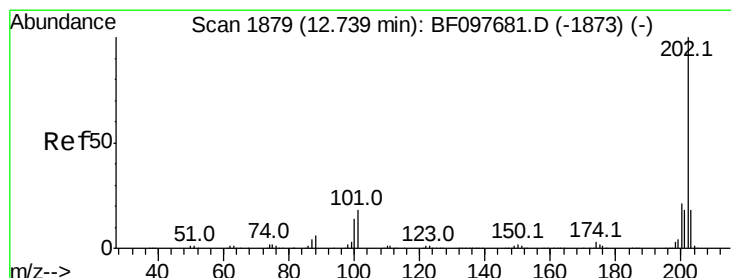
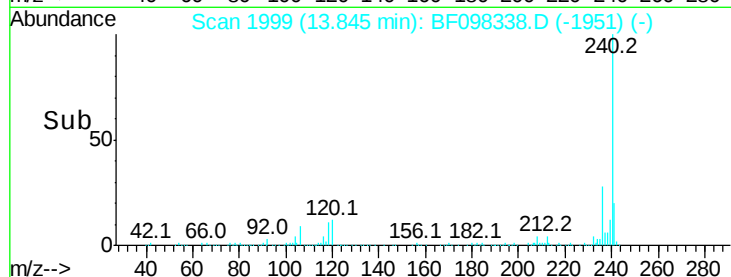
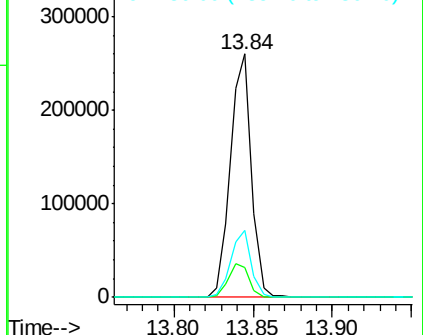
236 27.5 20.5 30.7



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: 3.286 ng

RT: 12.64 min Scan# 1795

Delta R.T. -0.02 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

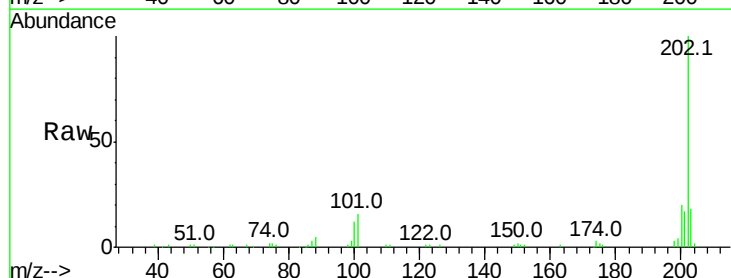
Tgt Ion:202 Resp: 64428

Ion Ratio Lower Upper

202 100

200 19.8 17.6 26.4

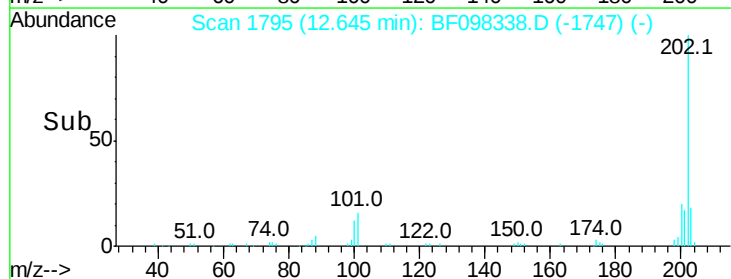
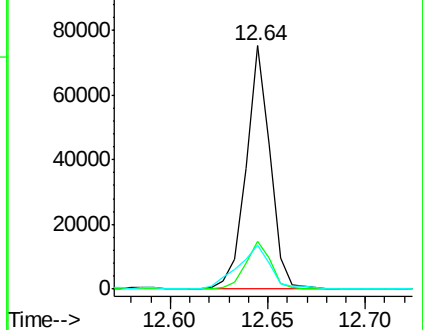
203 17.8 14.4 21.6

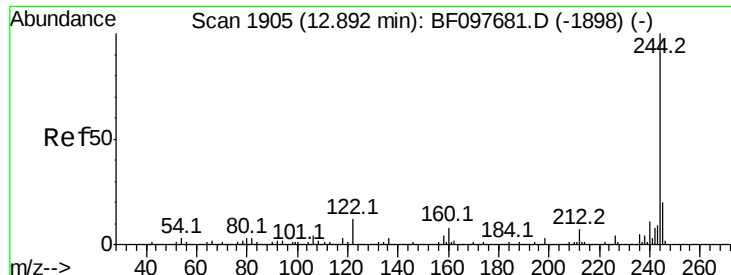


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 72.406 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

Instrument :

BNA\_F

ClientSampleId :

090517-TIDO-F-D-B

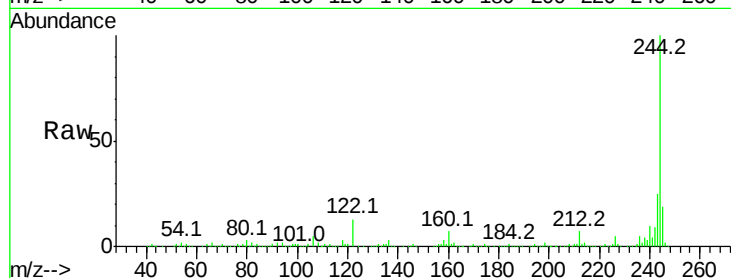
Tot Ion:244 Resp: 832359

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

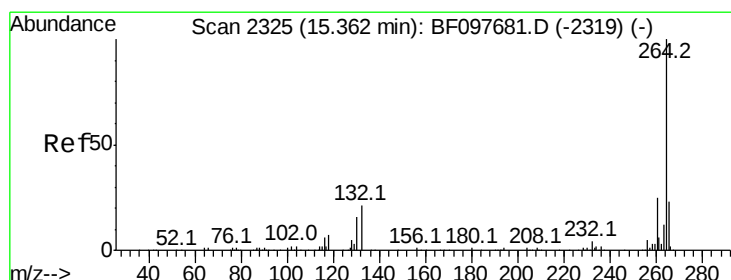
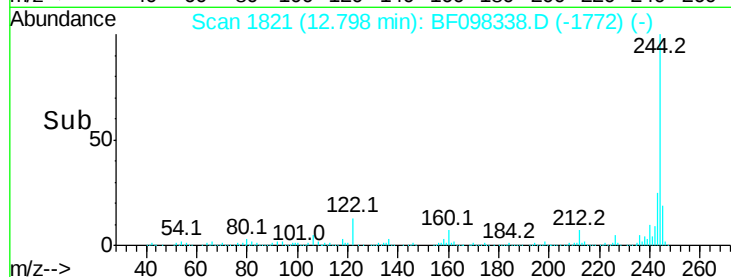
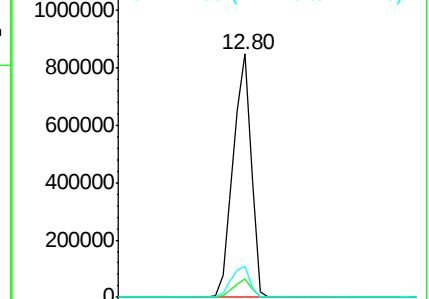
122 12.7 10.3 15.5



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: 20.000 ng

RT: 15.25 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BF098338.D

Acq: 8 Sep 2017 3:15

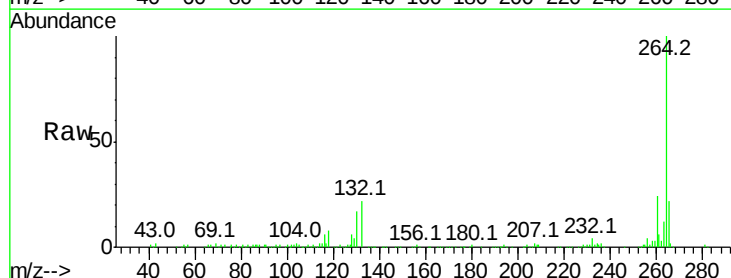
Tgt Ion:264 Resp: 166554

Ion Ratio Lower Upper

264 100

260 23.7 19.5 29.3

265 22.0 17.2 25.8



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

