

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081217\  
 Data File : BF097640.D  
 Acq On : 12 Aug 2017 18:09  
 Operator : SJ/JU  
 Sample : I4700-04 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-01-080917-B

Quant Time: Aug 14 06:37:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 11 15:55:57 2017  
 Response via : Initial Calibration

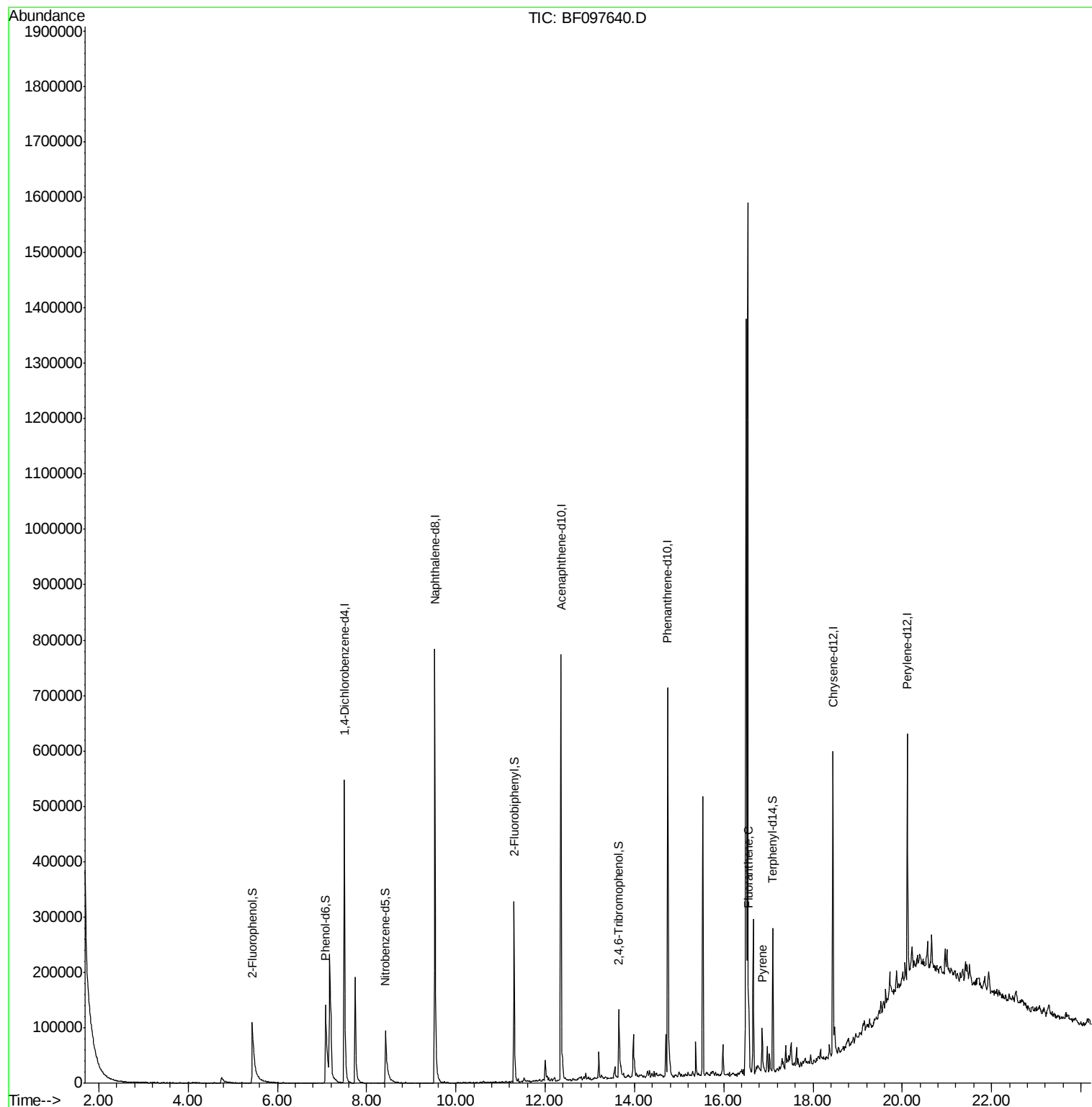
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.50  | 152  | 126084   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 9.53  | 136  | 533101   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 12.35 | 164  | 218105   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 14.74 | 188  | 335966   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 18.44 | 240  | 208736   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 20.11 | 264  | 190571   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.44  | 112  | 118884   | 14.99 | ng    | 0.04     |
| 7) Phenol-d6                | 7.07  | 99   | 163422   | 16.61 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 8.42  | 82   | 91136    | 10.72 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 13.65 | 330  | 21782    | 13.14 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 11.30 | 172  | 151589   | 10.49 | ng    | -0.02    |
| 78) Terphenyl-d14           | 17.10 | 244  | 86356    | 8.56  | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 74) Fluoranthene            | 16.56 | 202  | 37942    | 2.170 | ng    | 94       |
| 77) Pyrene                  | 16.86 | 202  | 37531    | 2.174 | ng    | 95       |

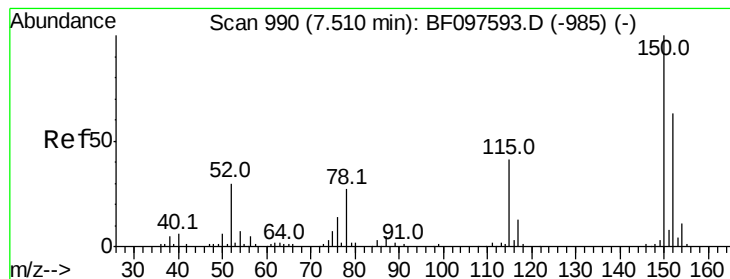
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 14 06:37:21 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 11 15:55:57 2017  
Response via : Initial Calibration



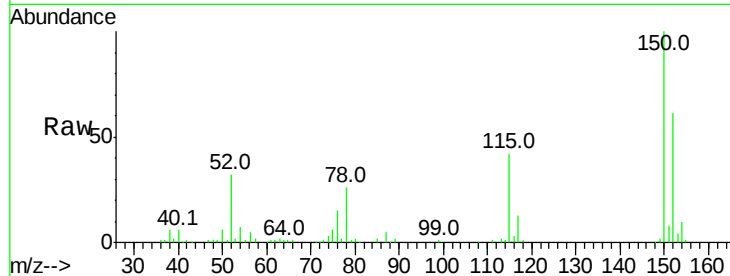


#1

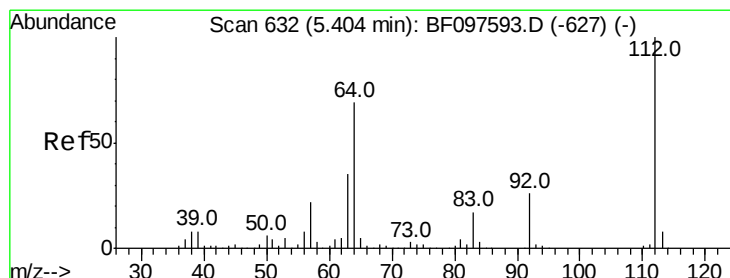
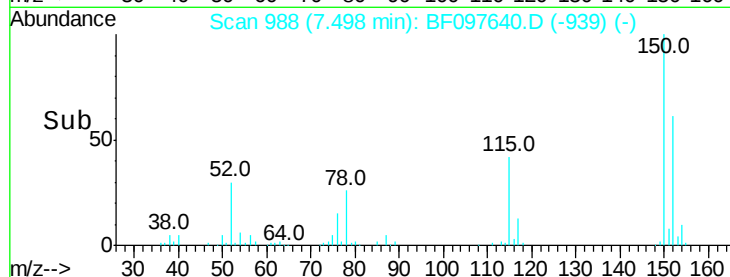
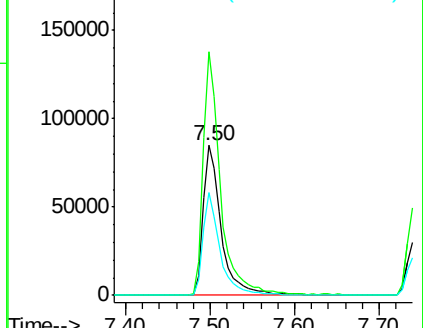
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.50 min Scan# 988  
Delta R.T. -0.01 min  
Lab File: BF097640.D  
Acq: 12 Aug 2017 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
NB-01-080917-B

Tot Ion:152 Resp: 126084  
Ion Ratio Lower Upper  
152 100  
150 162.7 126.2 189.2  
115 68.9 52.2 78.2



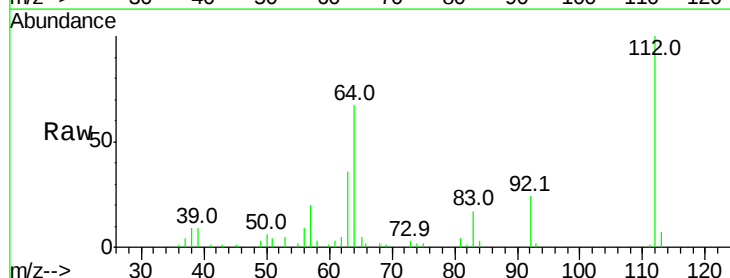
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



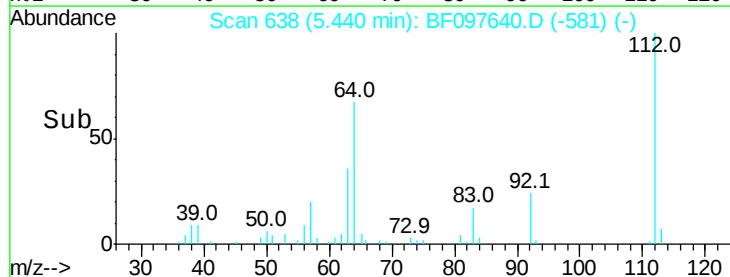
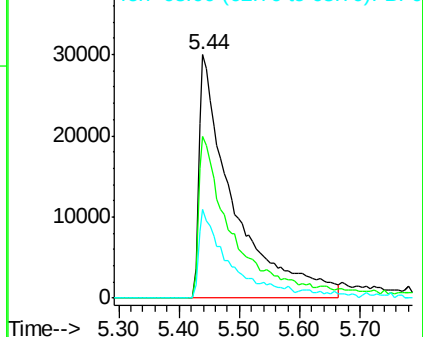
#5

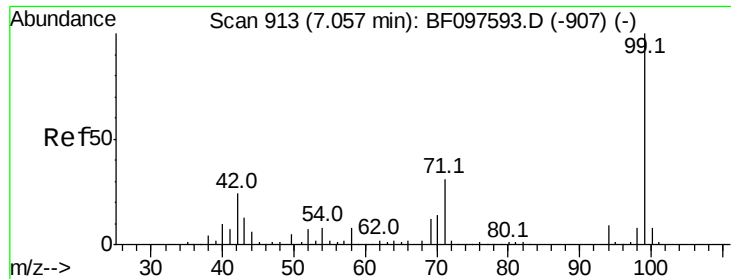
2-Fluorophenol  
Concen: 14.987 ng  
RT: 5.44 min Scan# 638  
Delta R.T. 0.04 min  
Lab File: BF097640.D  
Acq: 12 Aug 2017 18:09

Tgt Ion:112 Resp: 118884  
Ion Ratio Lower Upper  
112 100  
64 66.5 46.0 69.0  
63 36.2 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: 16.608 ng

RT: 7.07 min Scan# 916

Delta R.T. 0.02 min

Lab File: BF097640.D

Acq: 12 Aug 2017 18:09

Instrument :

BNA\_F

ClientSampleId :

NB-01-080917-B

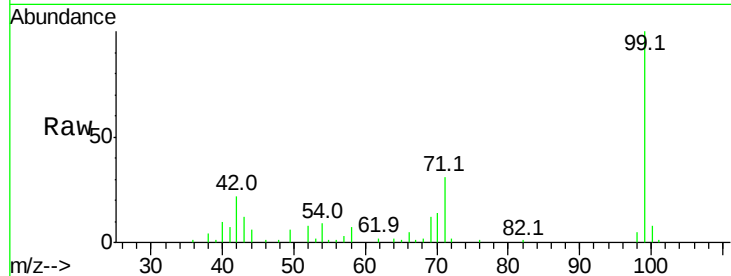
Tot Ion: 99 Resp: 163422

Ion Ratio Lower Upper

99 100

42 21.8 13.5 20.3#

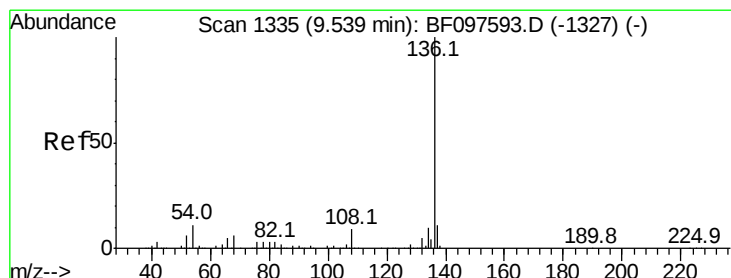
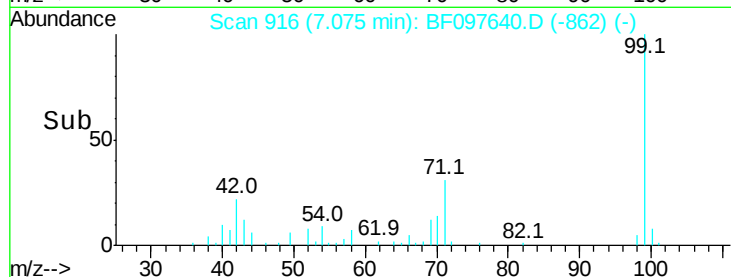
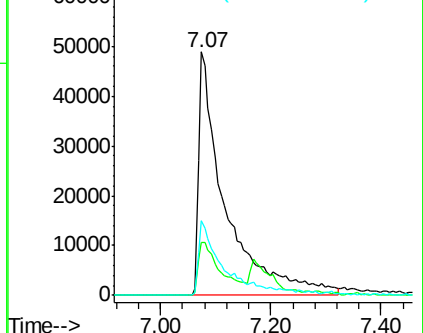
71 30.7 24.5 36.7



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: 9.53 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF097640.D

Acq: 12 Aug 2017 18:09

Tgt Ion: 136 Resp: 533101

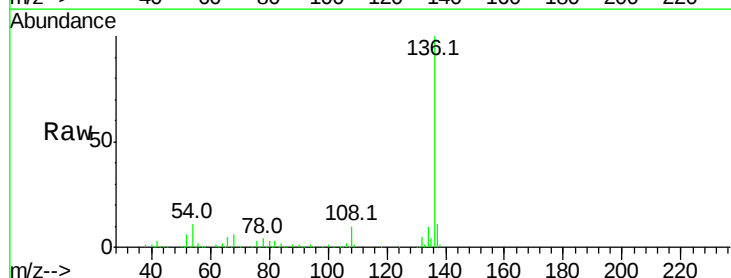
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 11.0 4.9 7.3#

68 6.5 4.1 6.1#

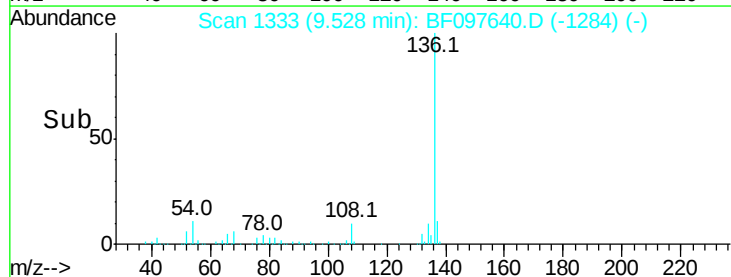
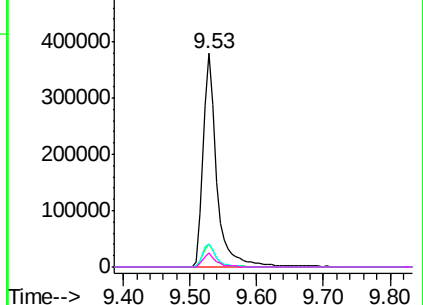


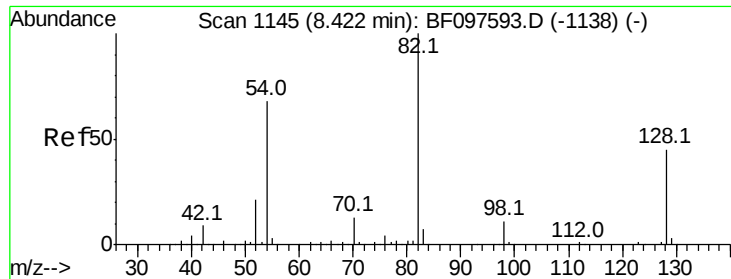
Abundance Ion 136.00 (135.70 to 136.70): E

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

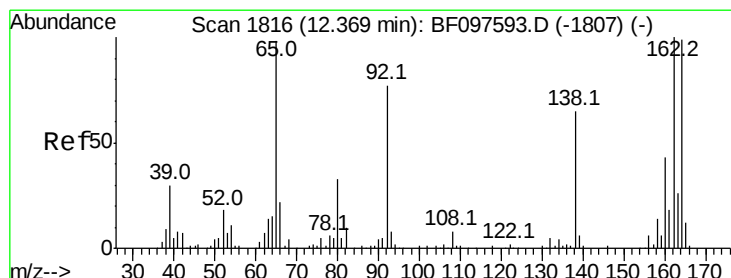
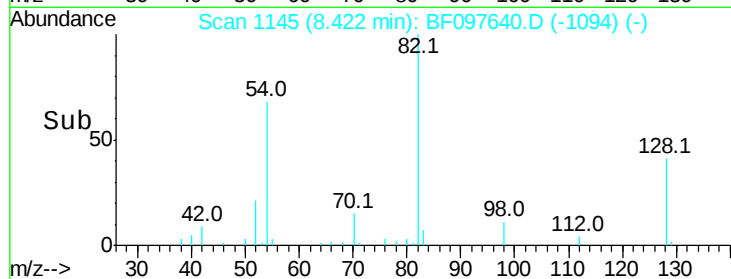
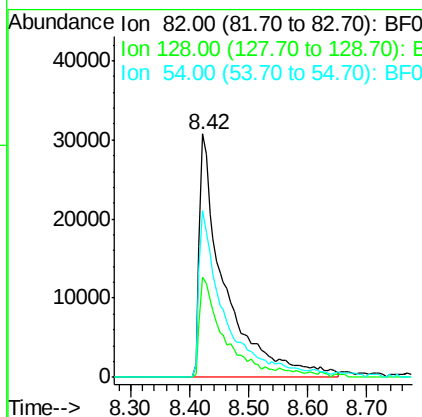
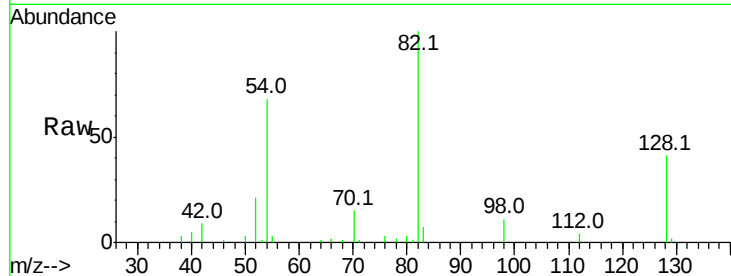




#23  
 Nitrobenzene-d5  
 Concen: 10.720 ng  
 RT: 8.42 min Scan# 1145  
 Delta R.T. 0.00 min  
 Lab File: BF097640.D  
 Acq: 12 Aug 2017 18:09

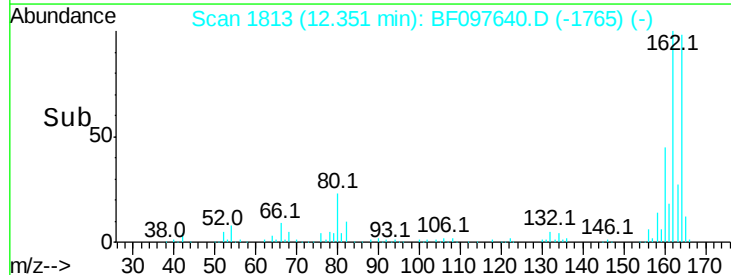
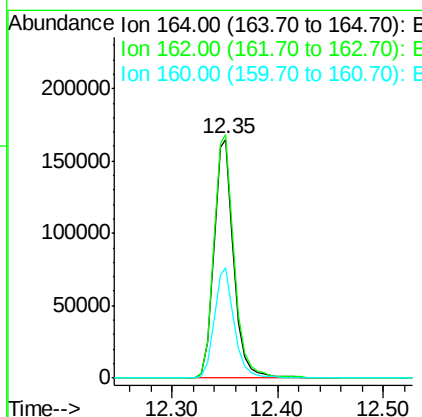
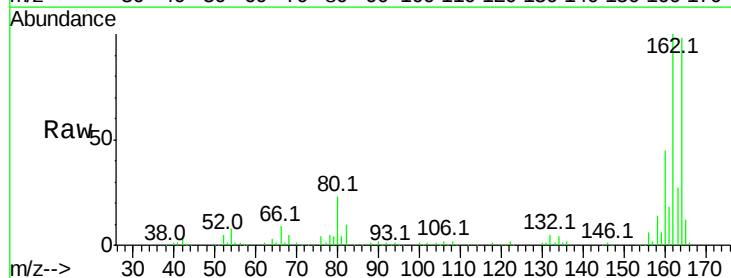
Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-01-080917-B

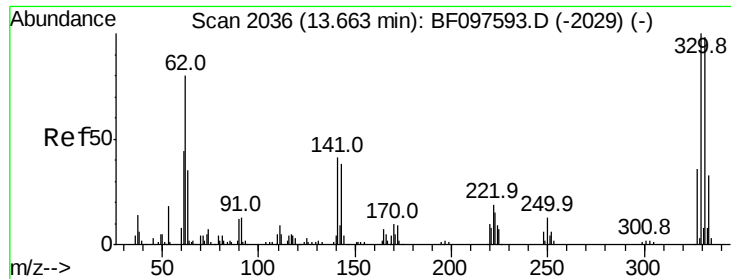
Tot Ion: 82 Resp: 91136  
 Ion Ratio Lower Upper  
 82 100  
 128 41.2 34.0 51.0  
 54 68.4 42.2 63.2#



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 12.35 min Scan# 1813  
 Delta R.T. -0.02 min  
 Lab File: BF097640.D  
 Acq: 12 Aug 2017 18:09

Tgt Ion:164 Resp: 218105  
 Ion Ratio Lower Upper  
 164 100  
 162 102.0 82.6 123.8  
 160 46.4 36.2 54.2

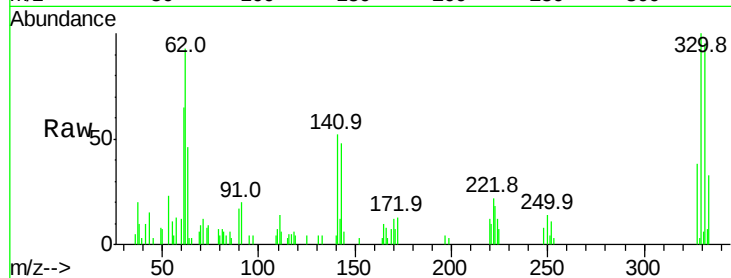




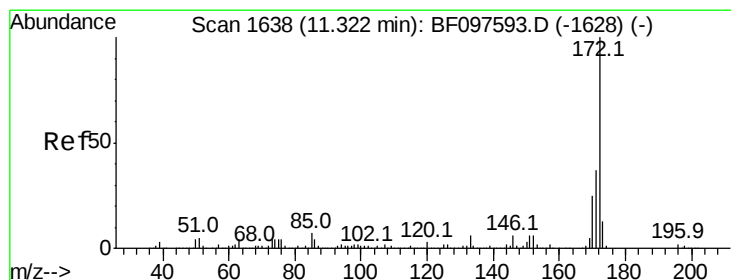
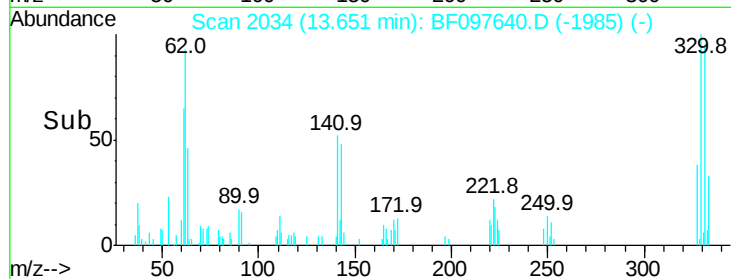
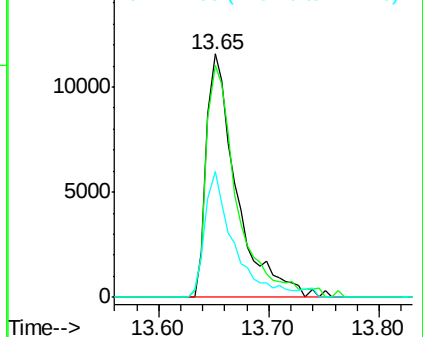
#41  
 2,4,6-Tribromophenol  
 Concen: 13.138 ng  
 RT: 13.65 min Scan# 2034  
 Delta R.T. -0.01 min  
 Lab File: BF097640.D  
 Acq: 12 Aug 2017 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-01-080917-B

Tot Ion:330 Resp: 21782  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 76.6 115.0  
 141 48.8 31.4 47.2#

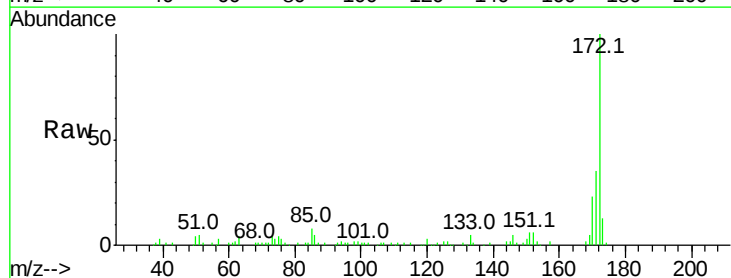


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

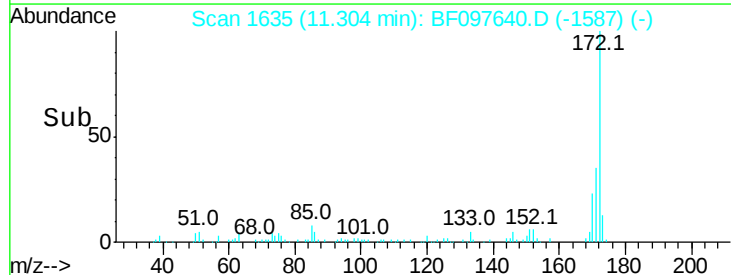
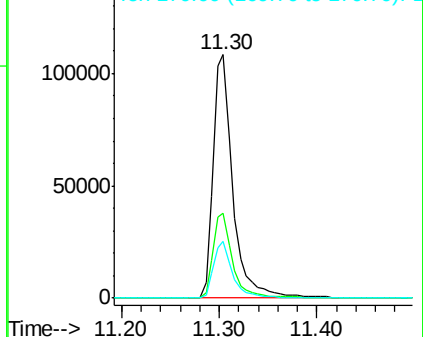


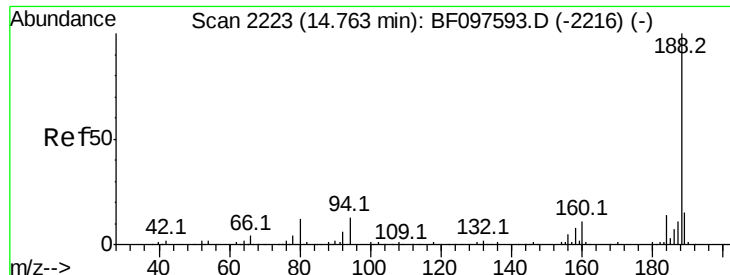
#44  
 2-Fluorobiphenyl  
 Concen: 10.489 ng  
 RT: 11.30 min Scan# 1635  
 Delta R.T. -0.02 min  
 Lab File: BF097640.D  
 Acq: 12 Aug 2017 18:09

Tgt Ion:172 Resp: 151589  
 Ion Ratio Lower Upper  
 172 100  
 171 34.7 29.6 44.4  
 170 23.2 19.8 29.8



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 14.74 min Scan# 2220

Delta R.T. -0.02 min

Lab File: BF097640.D

Acq: 12 Aug 2017 18:09

Instrument :

BNA\_F

ClientSampleId :

NB-01-080917-B

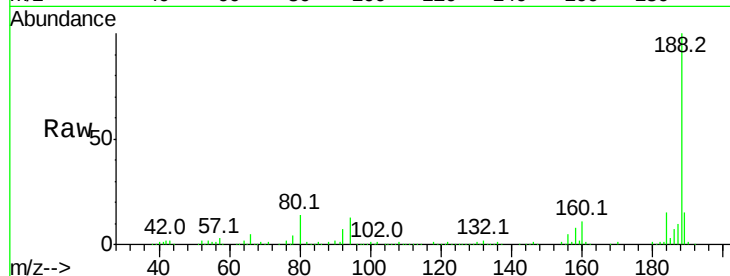
Tot Ion:188 Resp: 335966

Ion Ratio Lower Upper

188 100

94 12.8 9.4 14.2

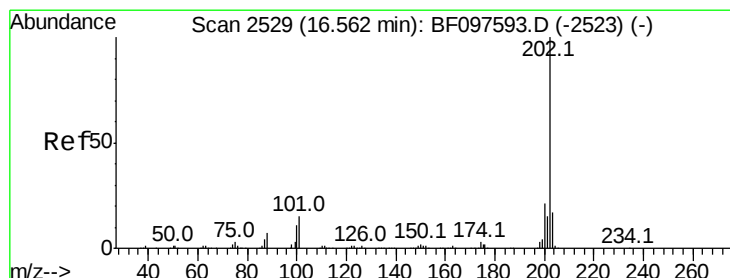
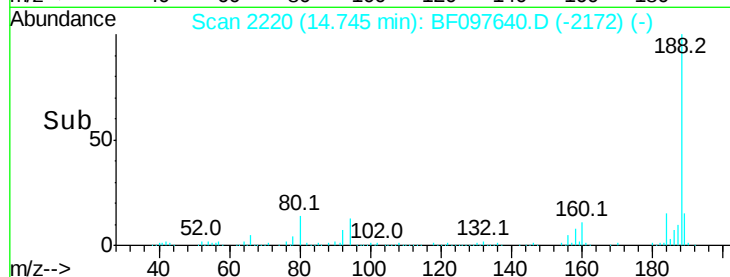
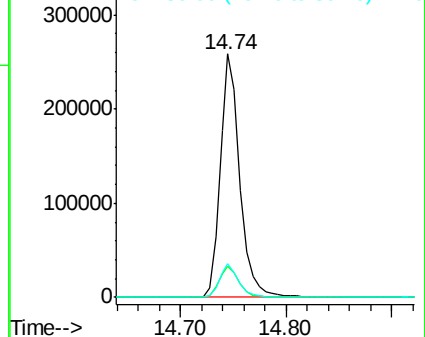
80 13.7 10.2 15.2



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



#74

Fluoranthene

Concen: 2.170 ng

RT: 16.56 min Scan# 2528

Delta R.T. -0.01 min

Lab File: BF097640.D

Acq: 12 Aug 2017 18:09

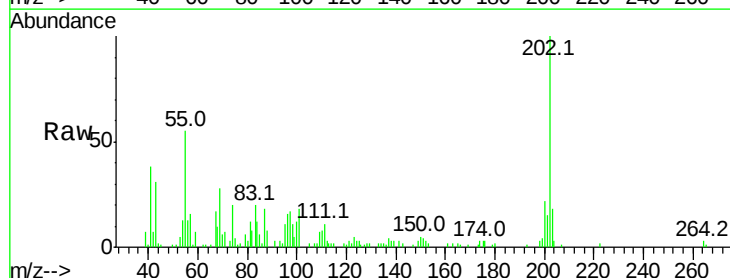
Tgt Ion:202 Resp: 37942

Ion Ratio Lower Upper

202 100

101 18.0 0.0 33.2

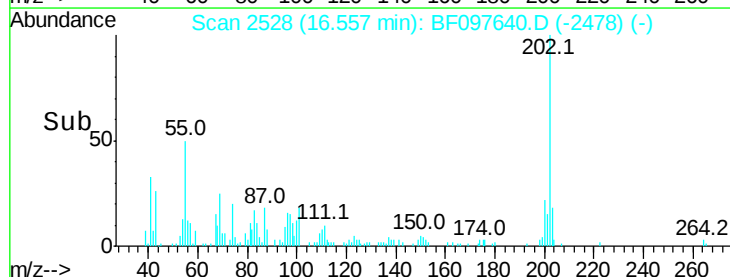
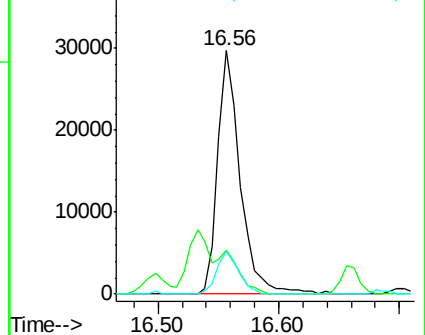
203 17.7 0.0 38.1

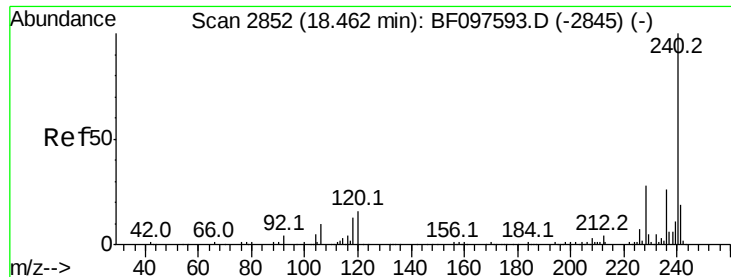


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 18.44 min Scan# 2849

Delta R.T. -0.02 min

Lab File: BF097640.D

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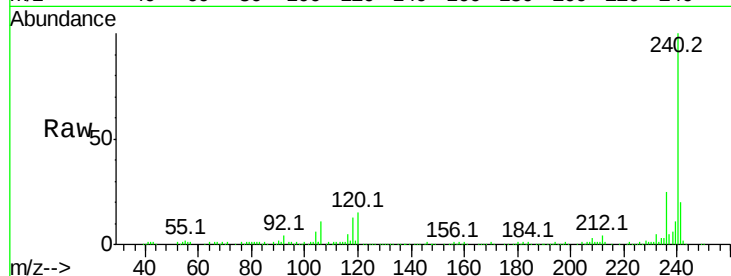
Tot Ion:240 Resp: 208736

Ion Ratio Lower Upper

240 100

120 14.9 5.8 8.8#

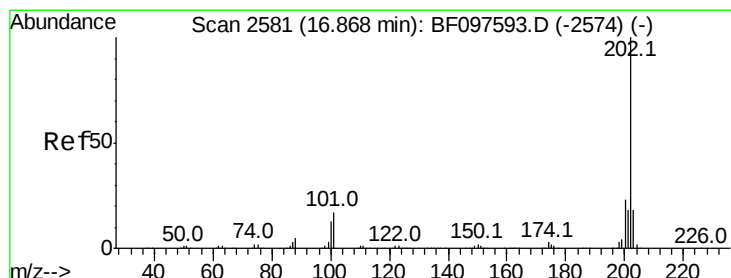
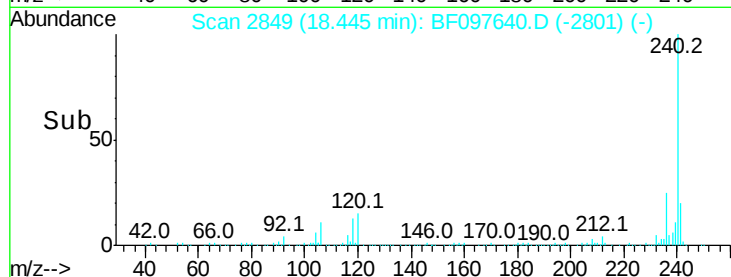
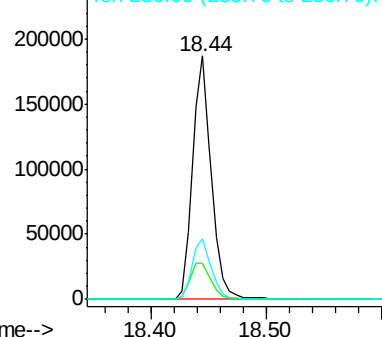
236 24.7 20.5 30.7



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: 2.174 ng

RT: 16.86 min Scan# 2580

Delta R.T. -0.01 min

Lab File: BF097640.D

Acq: 12 Aug 2017 18:09

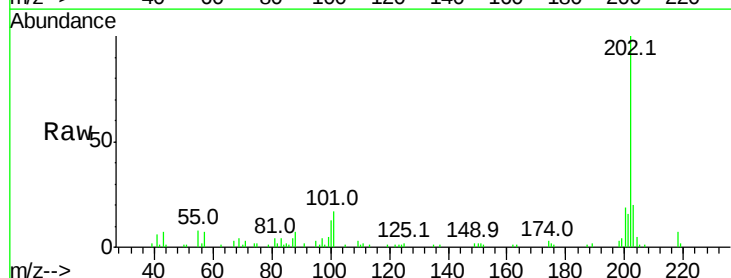
Tgt Ion:202 Resp: 37531

Ion Ratio Lower Upper

202 100

200 19.1 17.6 26.4

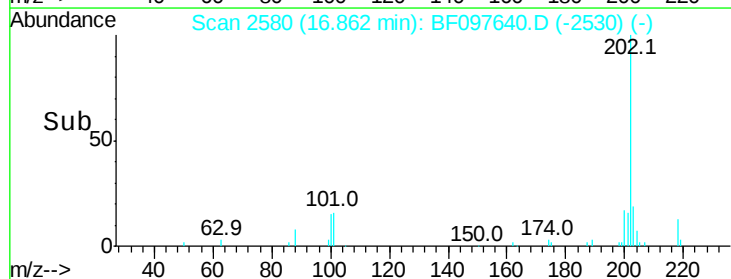
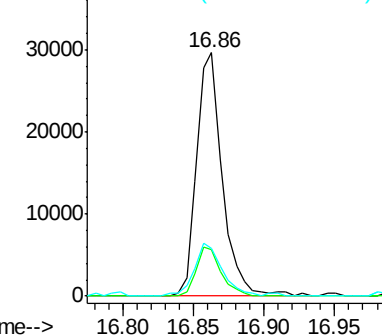
203 19.7 14.4 21.6

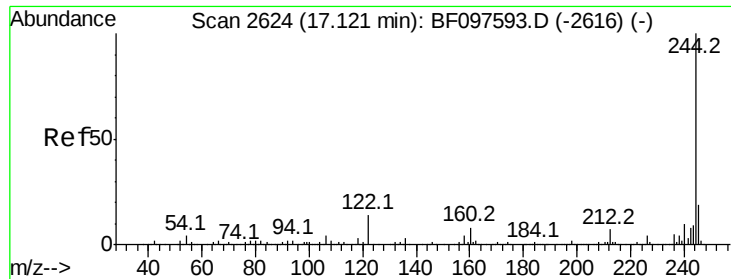


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 8.562 ng

RT: 17.10 min Scan# 2620

Delta R.T. -0.02 min

Lab File: BF097640.D

Acq: 12 Aug 2017 18:09

Instrument :

BNA\_F

ClientSampleId :

NB-01-080917-B

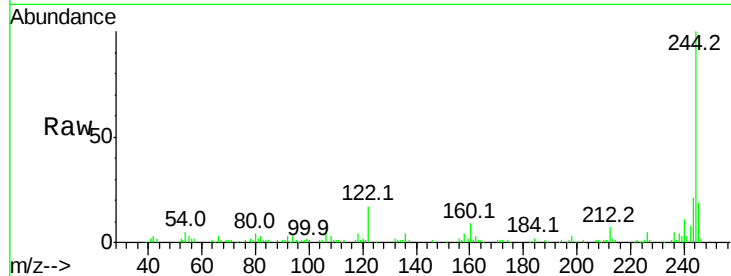
Tot Ion:244 Resp: 86356

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

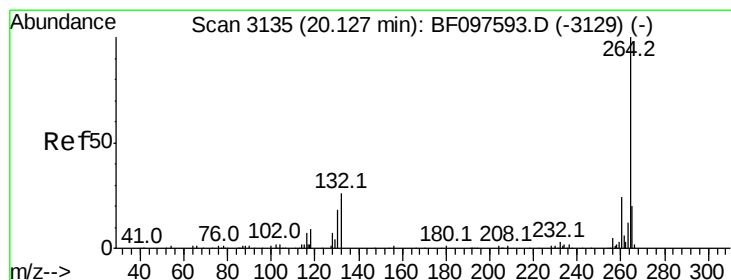
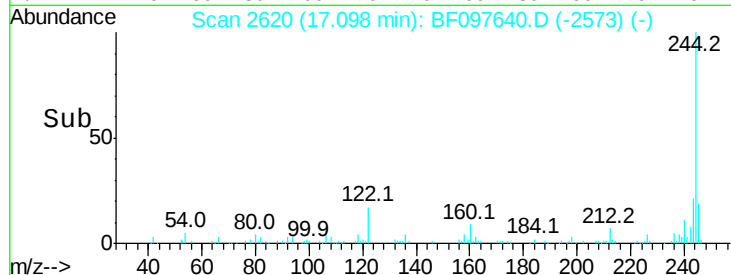
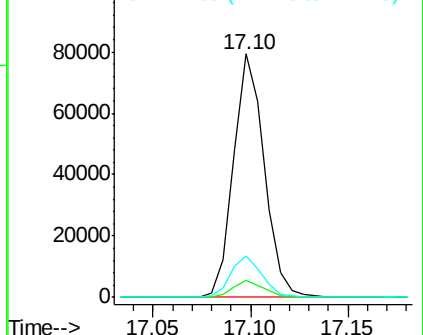
122 17.2 10.3 15.5#



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: 20.11 min Scan# 3132

Delta R.T. -0.02 min

Lab File: BF097640.D

Acq: 12 Aug 2017 18:09

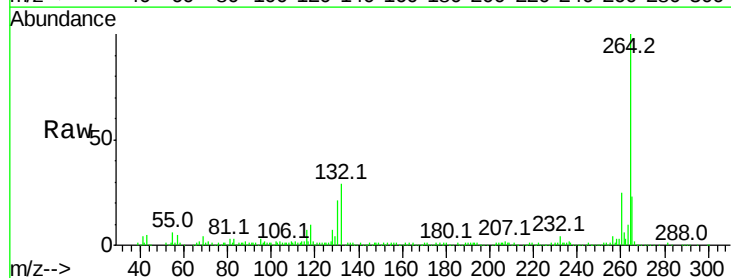
Tgt Ion:264 Resp: 190571

Ion Ratio Lower Upper

264 100

260 25.5 19.5 29.3

265 22.5 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

