

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082817\  
 Data File : BF098105.D  
 Acq On : 29 Aug 2017 9:48  
 Operator : SJ/JU  
 Sample : I4961-02DL 5X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-11-COMPDL

Quant Time: Aug 29 13:35:32 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

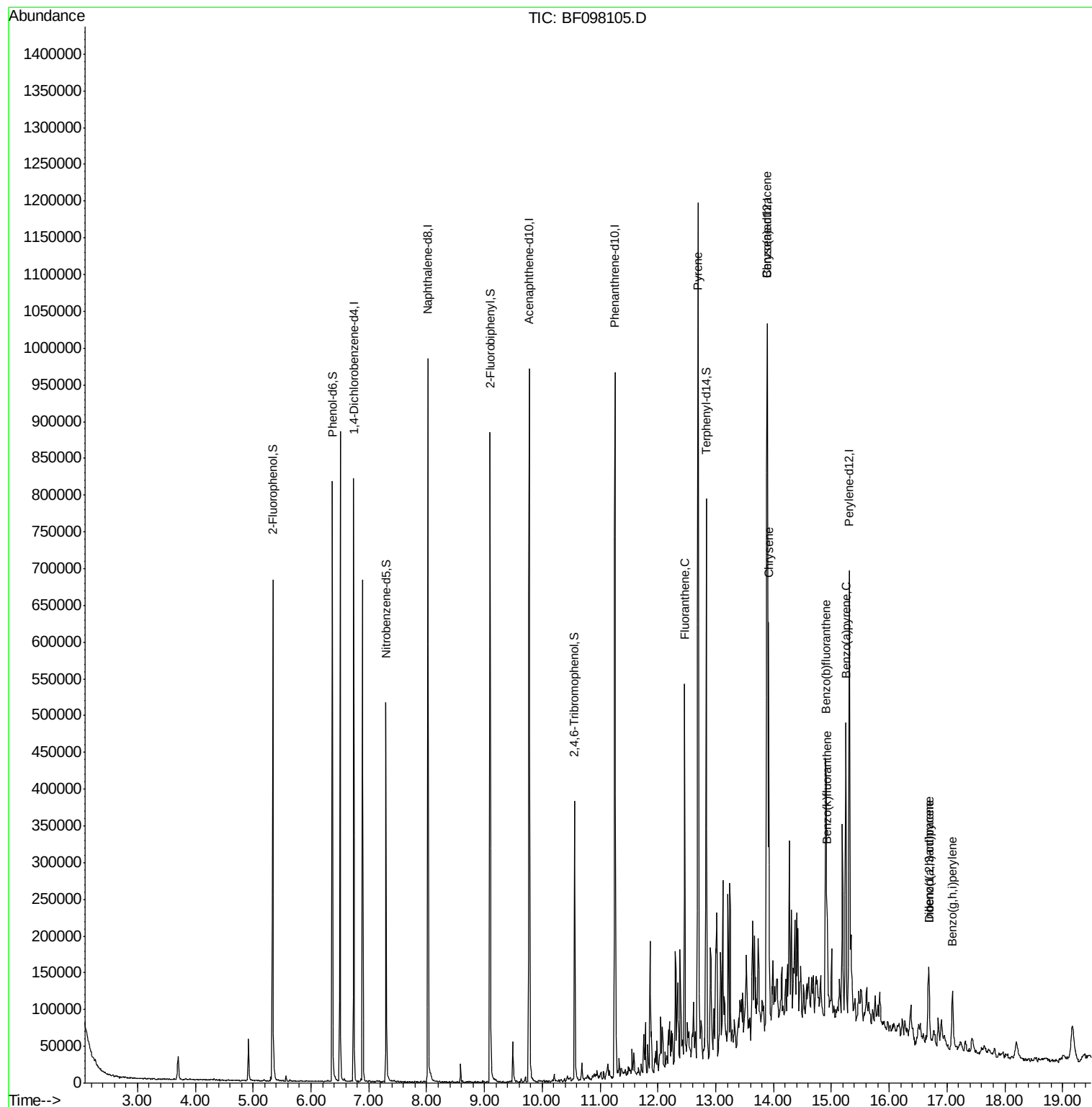
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.74  | 152  | 105013   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.02  | 136  | 419577   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.77  | 164  | 184422   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.26 | 188  | 326857   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.89 | 240  | 261057   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.31 | 264  | 265787   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.34  | 112  | 198380   | 28.73  | ng    | -0.01    |
| 7) Phenol-d6                | 6.37  | 99   | 272504   | 29.05  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 167940   | 21.74  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.56 | 330  | 40816    | 25.51  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 279147   | 22.24  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.84 | 244  | 207023   | 16.54  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 74) Fluoranthene            | 12.46 | 202  | 184940   | 10.173 | ng    | 99       |
| 77) Pyrene                  | 12.69 | 202  | 482586   | 22.602 | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.88 | 228  | 192894   | 12.328 | ng    | 99       |
| 82) Chrysene                | 13.92 | 228  | 209894   | 13.486 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.69 | 276  | 61506    | 5.372  | ng    | 93       |
| 87) Benzo(b)fluoranthene    | 14.90 | 252  | 184721m  | 11.026 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.93 | 252  | 57821m   | 3.674  | ng    |          |
| 89) Benzo(a)pyrene          | 15.25 | 252  | 182219   | 12.286 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene  | 16.69 | 278  | 24485m   | 2.028  | ng    |          |
| 91) Benzo(g,h,i)perylene    | 17.10 | 276  | 60923    | 4.836  | ng    | 94       |

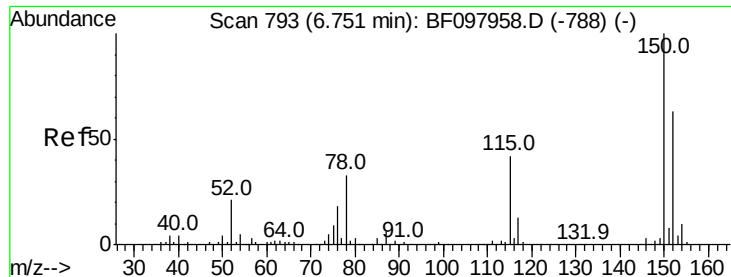
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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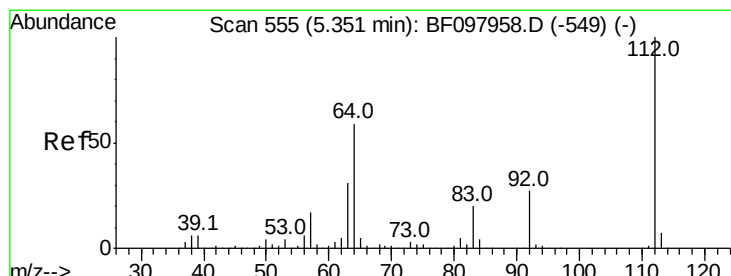
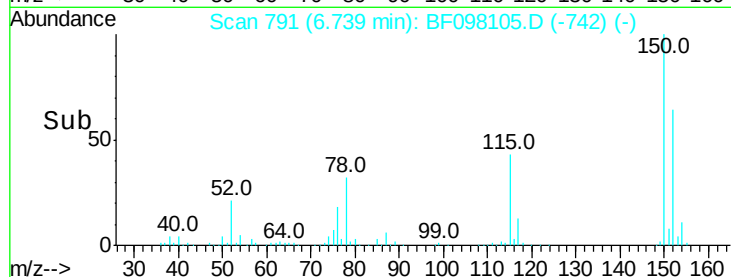
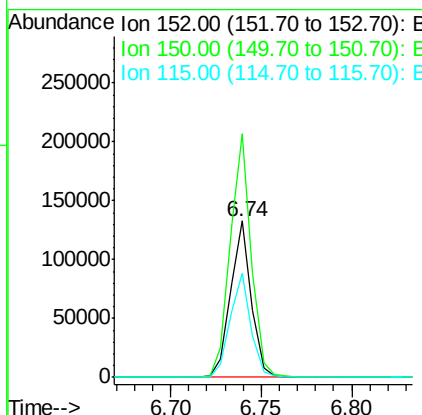
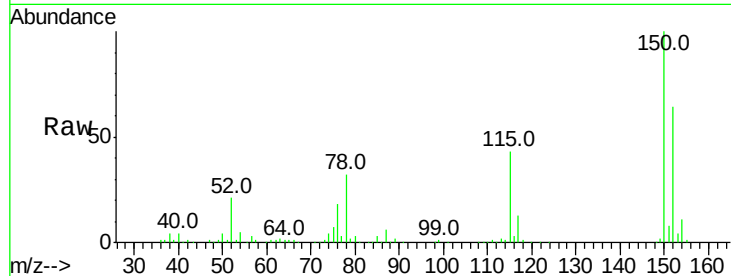


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.74 min Scan# 791  
Delta R.T. -0.01 min  
Lab File: BF098105.D  
Acq: 29 Aug 2017 9:48

Instrument :  
BNA\_F  
ClientSampleId :  
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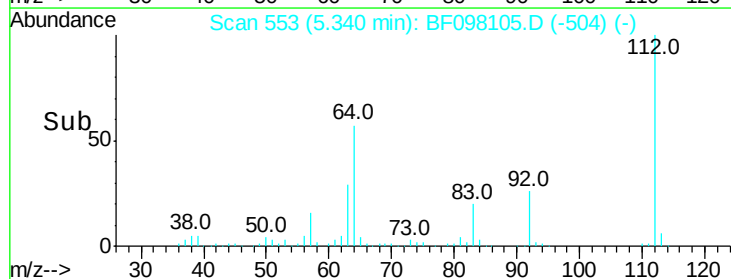
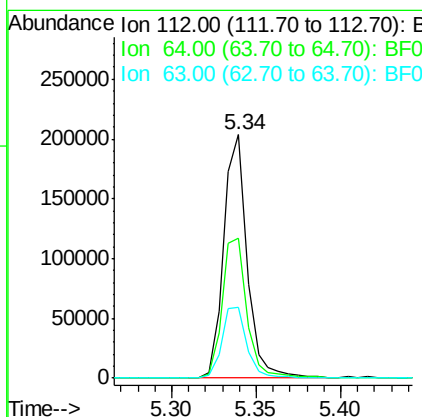
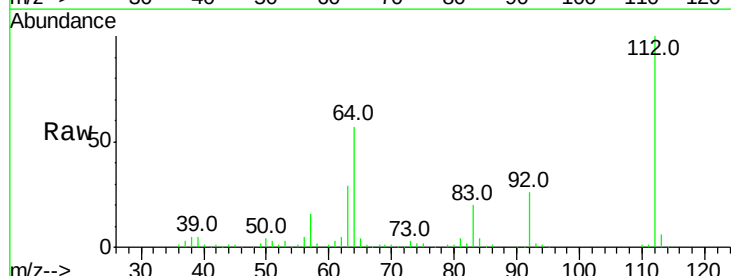
Tot Ion:152 Resp: 105013  
Ion Ratio Lower Upper  
152 100  
150 156.0 126.2 189.2  
115 66.5 52.2 78.2

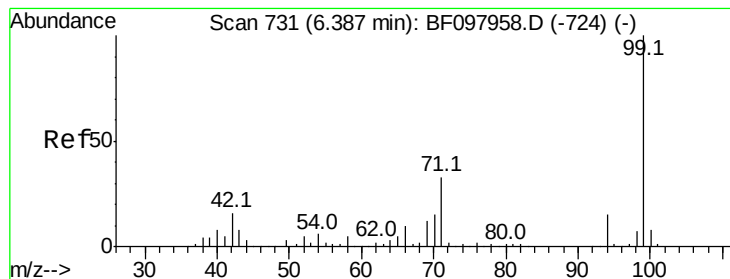


#5

2-Fluorophenol  
Concen: 28.735 ng  
RT: 5.34 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF098105.D  
Acq: 29 Aug 2017 9:48

Tgt Ion:112 Resp: 198380  
Ion Ratio Lower Upper  
112 100  
64 57.4 46.0 69.0  
63 29.0 23.4 35.0





#7

Phenol-d6

Concen: 29.050 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

Instrument :

BNA\_F

ClientSampleId :

SB-11-COMPDL

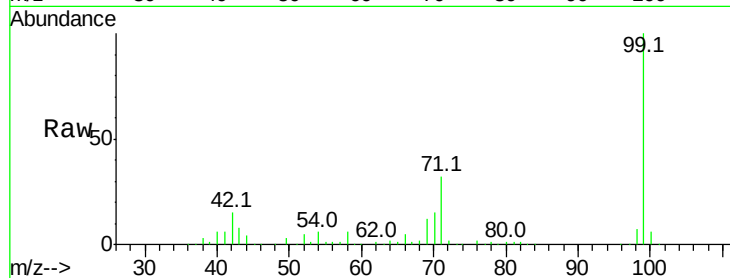
Tot Ion: 99 Resp: 272504

Ion Ratio Lower Upper

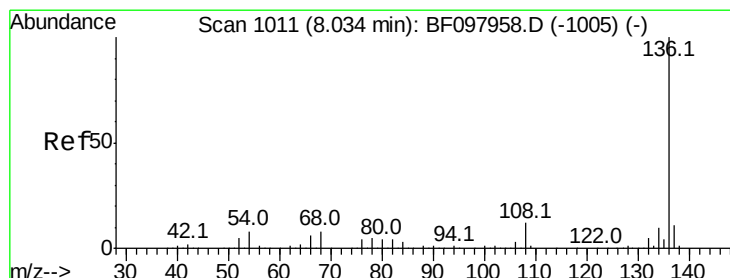
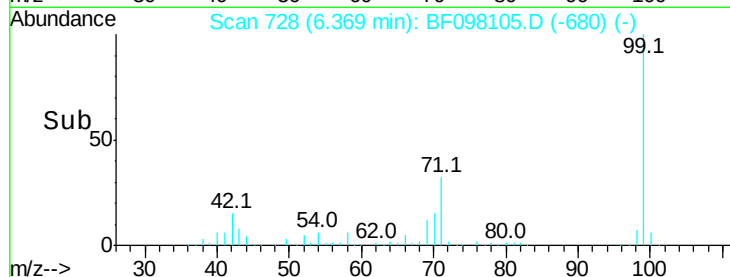
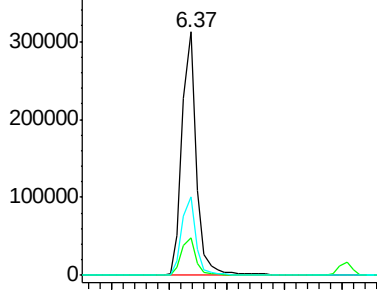
99 100

42 15.3 13.5 20.3

71 32.4 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: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

Tgt Ion: 136 Resp: 419577

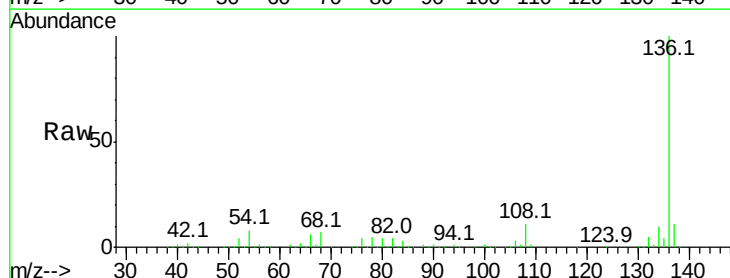
Ion Ratio Lower Upper

136 100

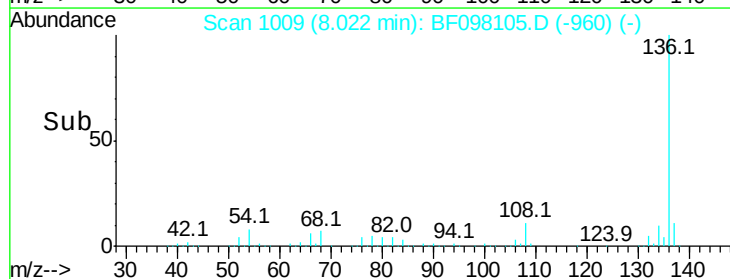
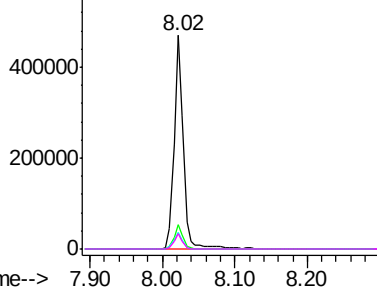
137 11.2 8.5 12.7

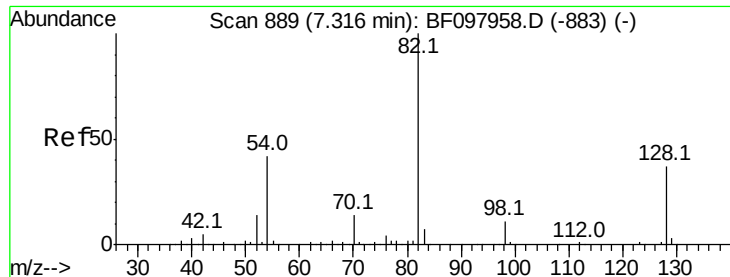
54 7.7 4.9 7.3#

68 7.5 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

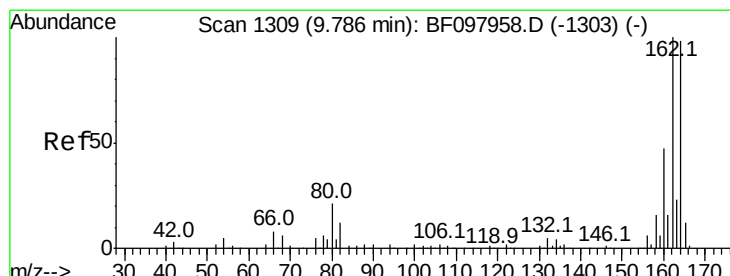
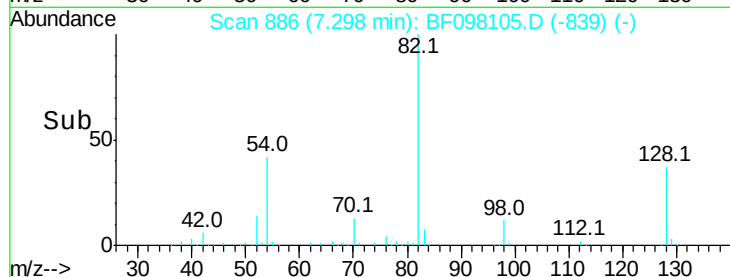
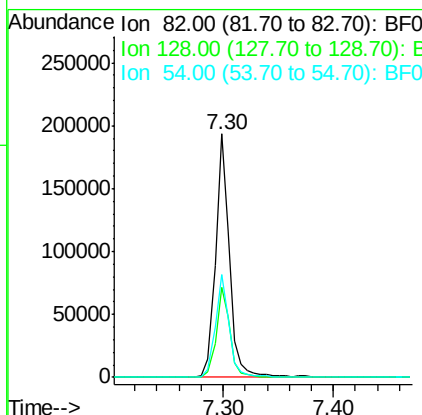
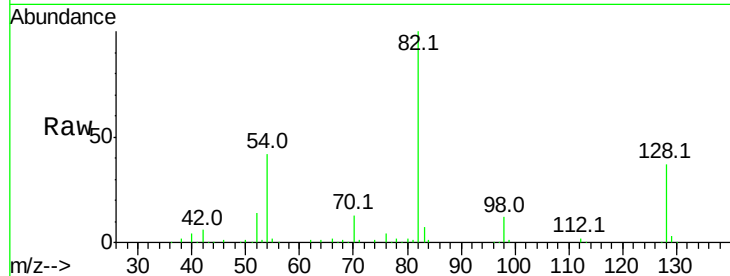




#23  
 Nitrobenzene-d5  
 Concen: 21.744 ng  
 RT: 7.30 min Scan# 886  
 Delta R.T. -0.02 min  
 Lab File: BF098105.D  
 Acq: 29 Aug 2017 9:48

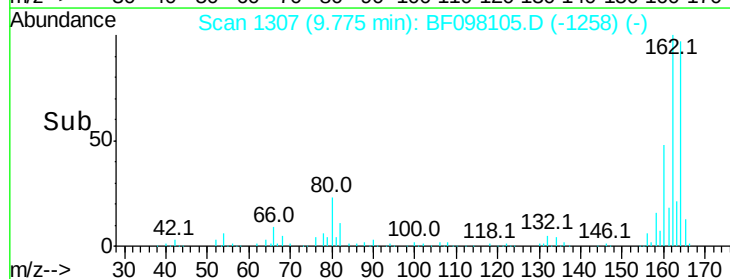
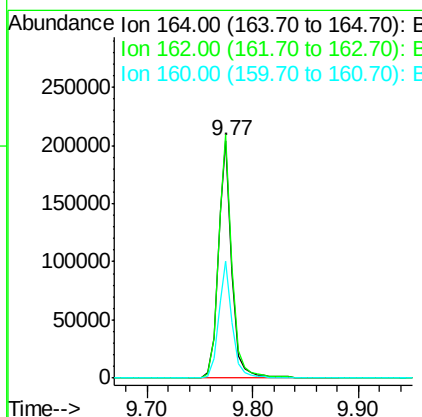
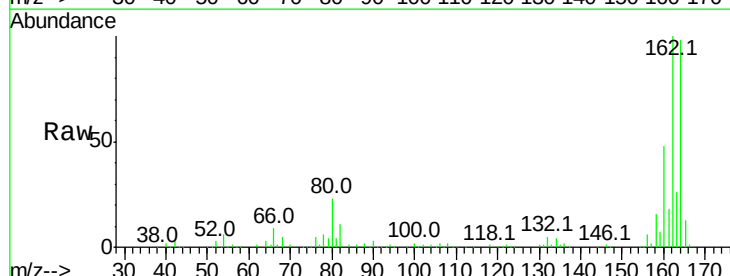
Instrument :  
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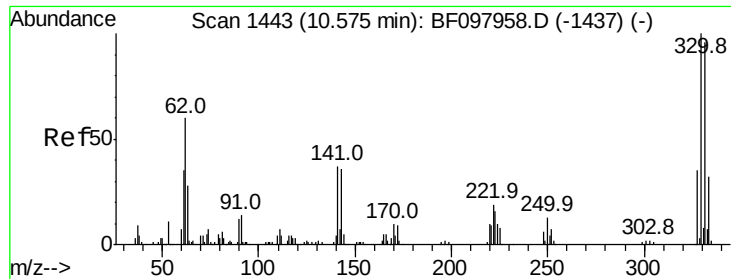
Tot Ion: 82 Resp: 167940  
 Ion Ratio Lower Upper  
 82 100  
 128 36.8 34.0 51.0  
 54 42.0 42.2 63.2#



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.77 min Scan# 1307  
 Delta R.T. -0.01 min  
 Lab File: BF098105.D  
 Acq: 29 Aug 2017 9:48

Tgt Ion:164 Resp: 184422  
 Ion Ratio Lower Upper  
 164 100  
 162 102.4 82.6 123.8  
 160 49.3 36.2 54.2

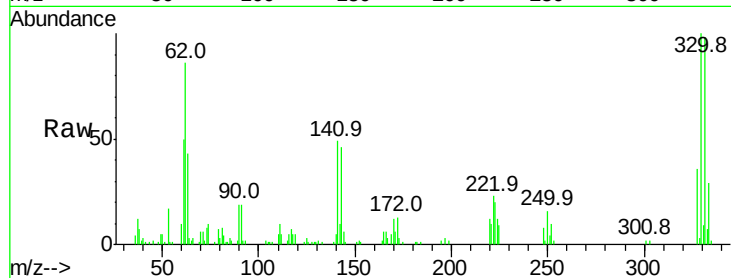




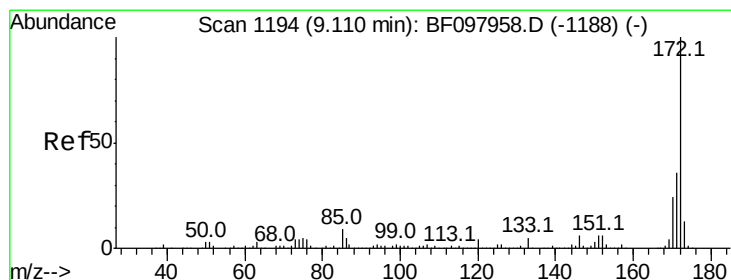
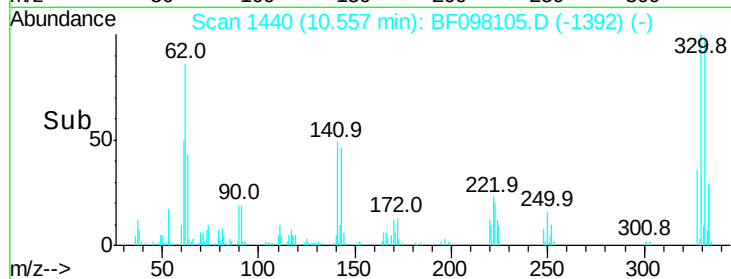
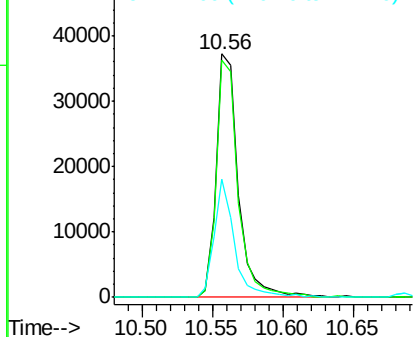
#41  
 2,4,6-Tribromophenol  
 Concen: 25.507 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.02 min  
 Lab File: BF098105.D  
 Acq: 29 Aug 2017 9:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-11-COMPDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 76.6  | 115.0 |
| 141     | 44.3  | 31.4  | 47.2  |

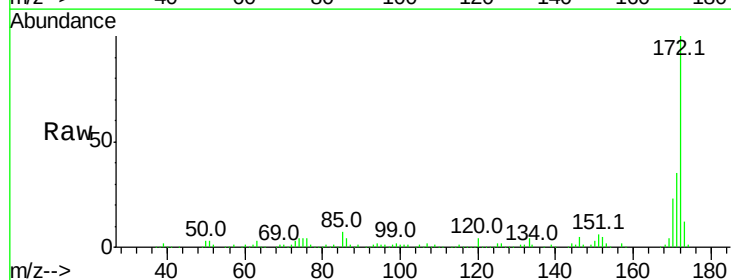


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

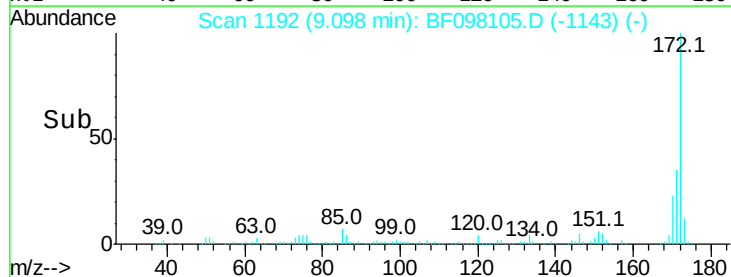
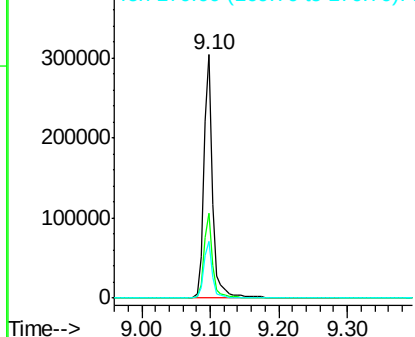


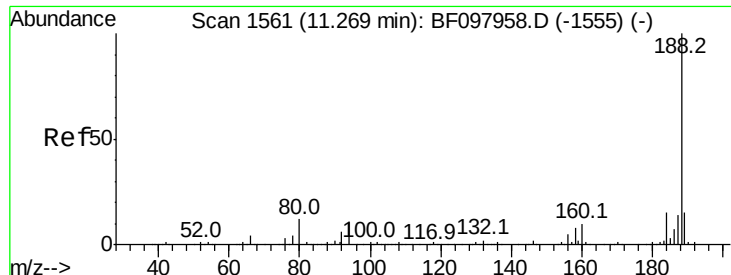
#44  
 2-Fluorobiphenyl  
 Concen: 22.238 ng  
 RT: 9.10 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BF098105.D  
 Acq: 29 Aug 2017 9:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.0  | 29.6  | 44.4  |
| 170     | 23.3  | 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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

Instrument :

BNA\_F

ClientSampleId :

SB-11-COMPDL

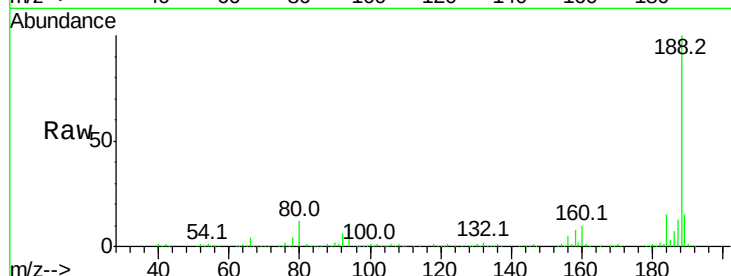
Tot Ion:188 Resp: 326857

Ion Ratio Lower Upper

188 100

94 10.6 9.4 14.2

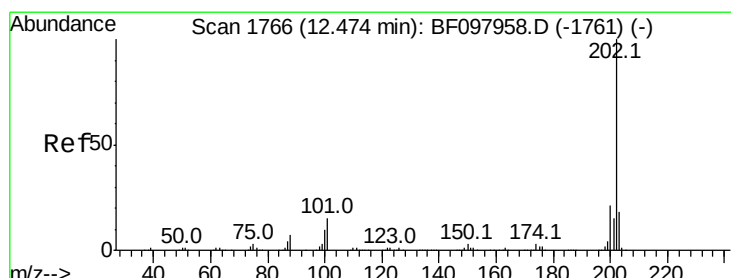
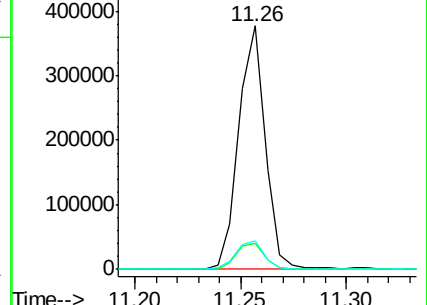
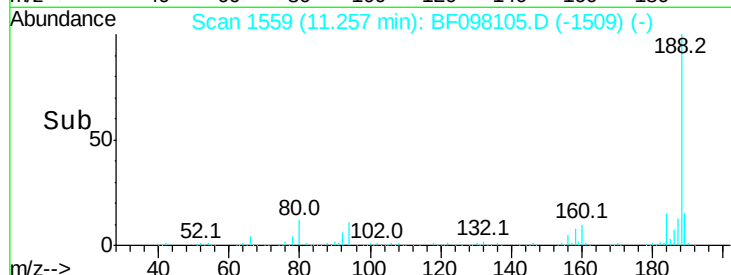
80 11.7 10.2 15.2



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: 10.173 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

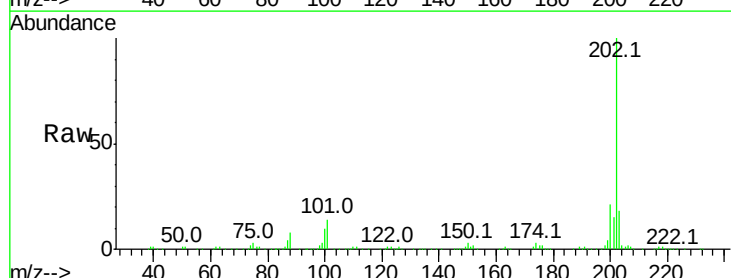
Tgt Ion:202 Resp: 184940

Ion Ratio Lower Upper

202 100

101 13.9 0.0 33.2

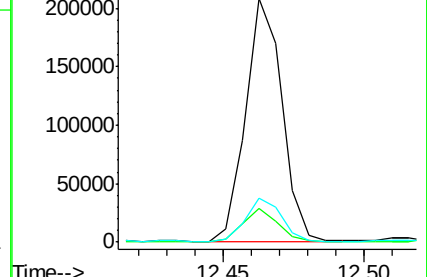
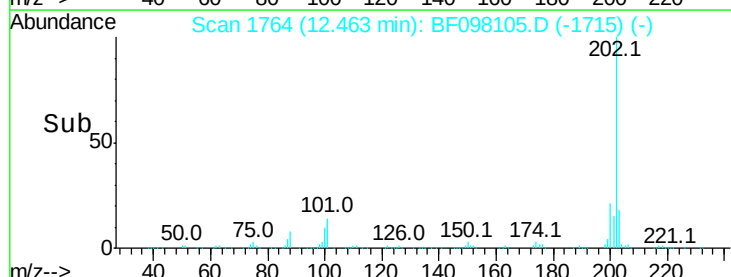
203 17.8 0.0 38.1

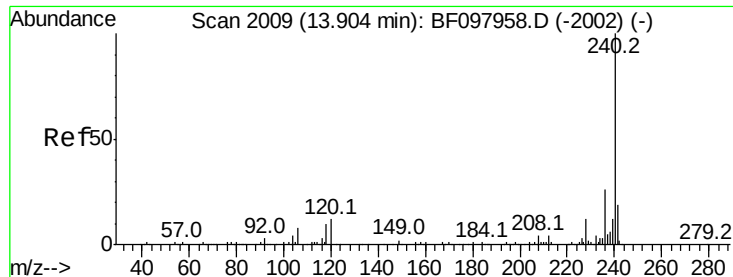


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

Instrument :

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ClientSampleId :

SB-11-COMPDL

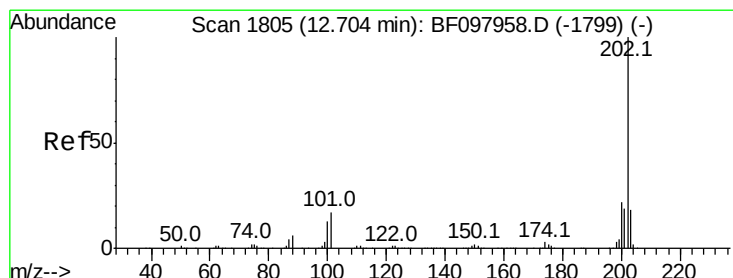
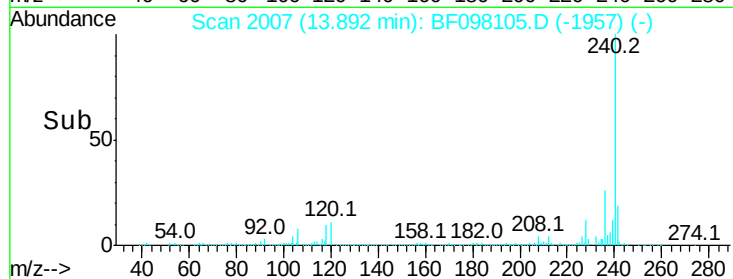
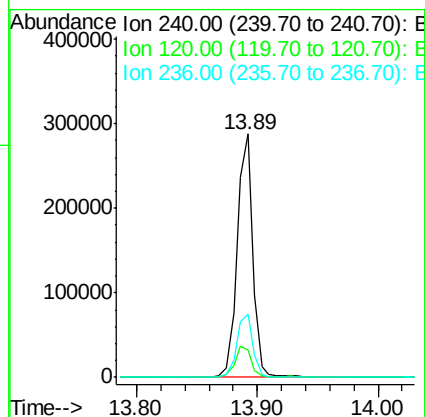
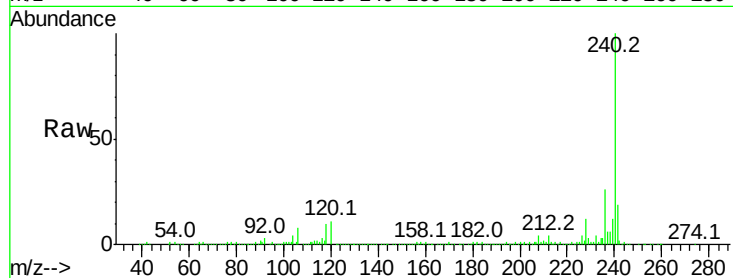
Tot Ion:240 Resp: 261057

Ion Ratio Lower Upper

240 100

120 11.4 5.8 8.8#

236 25.9 20.5 30.7



#77

Pyrene

Concen: 22.602 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

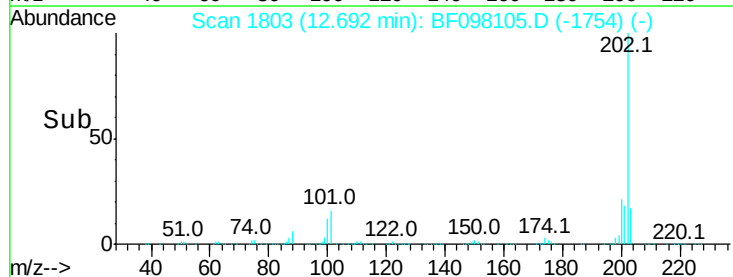
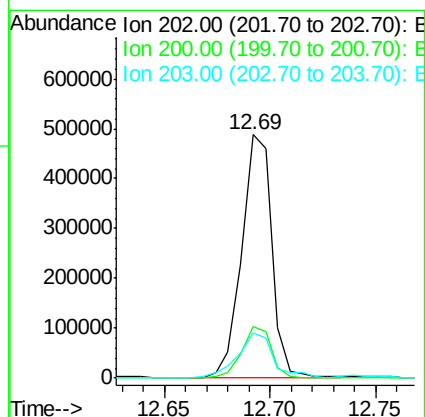
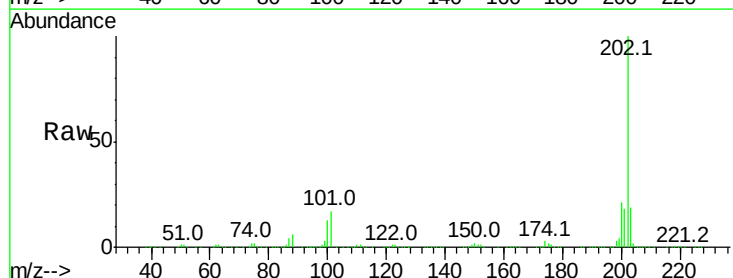
Tgt Ion:202 Resp: 482586

Ion Ratio Lower Upper

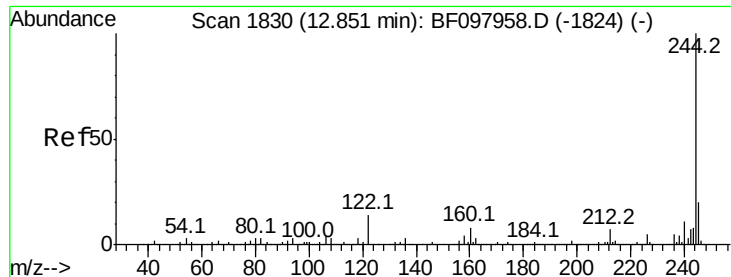
202 100

200 21.0 17.6 26.4

203 18.6 14.4 21.6



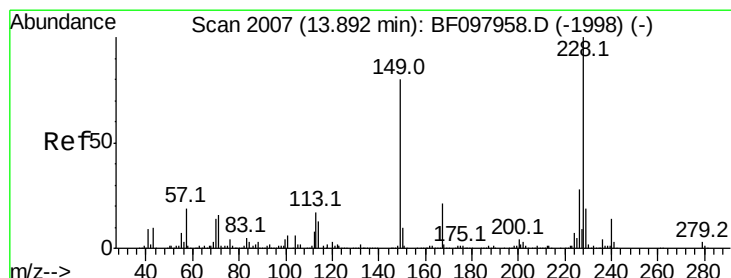
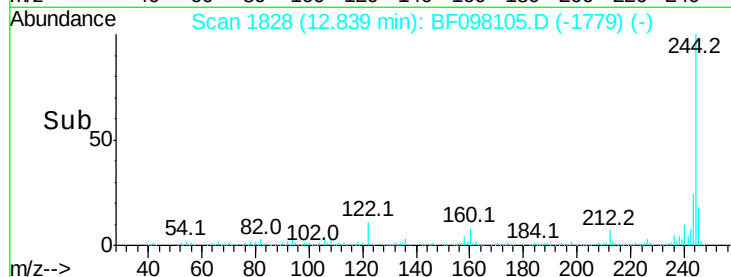
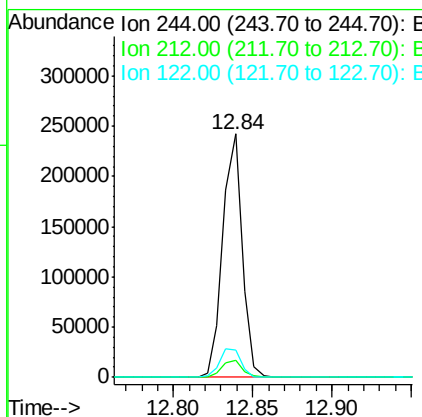
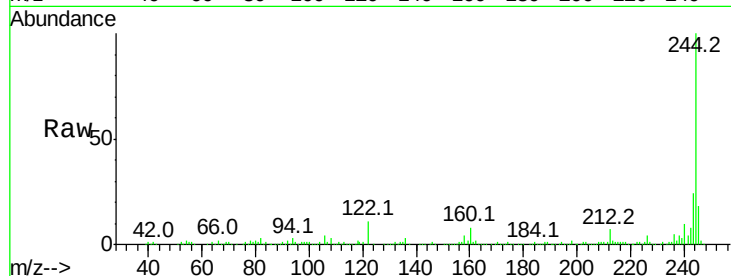




#78  
 Terphenyl-d14  
 Concen: 16.537 ng  
 RT: 12.84 min Scan# 1828  
 Delta R.T. -0.01 min  
 Lab File: BF098105.D  
 Acq: 29 Aug 2017 9:48

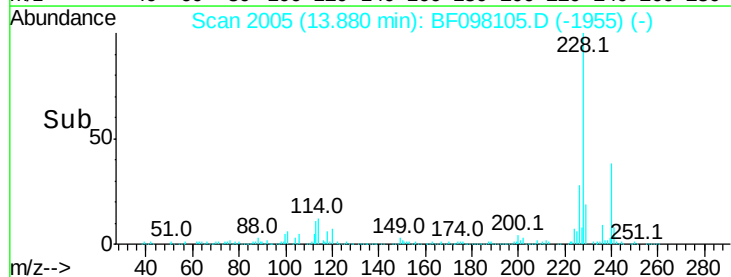
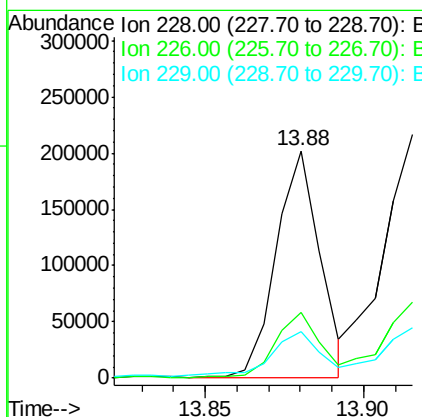
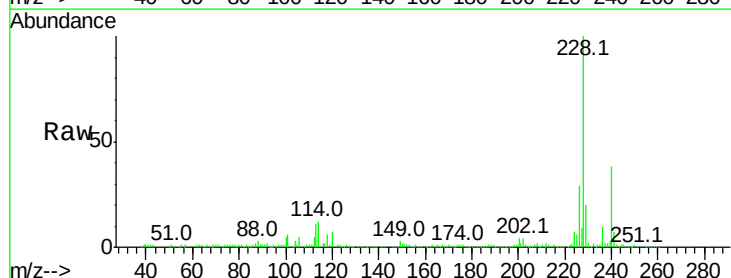
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-11-COMPDL

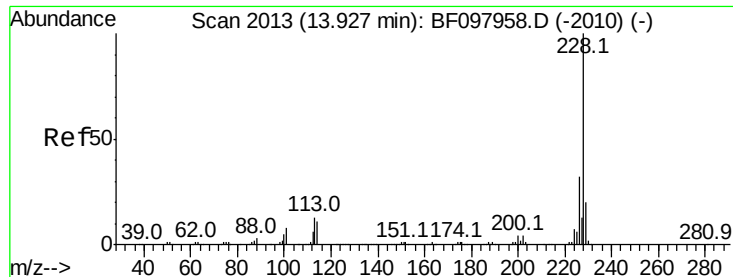
Tot Ion:244 Resp: 207023  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.0 9.0  
 122 11.5 10.3 15.5



#80  
 Benzo(a)anthracene  
 Concen: 12.328 ng  
 RT: 13.88 min Scan# 2005  
 Delta R.T. -0.01 min  
 Lab File: BF098105.D  
 Acq: 29 Aug 2017 9:48

Tgt Ion:228 Resp: 192894  
 Ion Ratio Lower Upper  
 228 100  
 226 29.1 22.6 33.8  
 229 20.3 16.3 24.5





#82

Chrysene

Concen: 13.486 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

Instrument :

BNA\_F

ClientSampleId :

SB-11-COMPDL

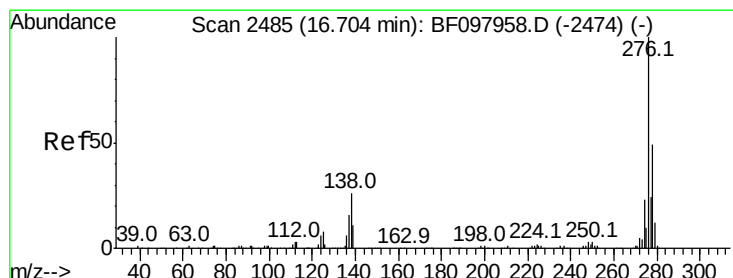
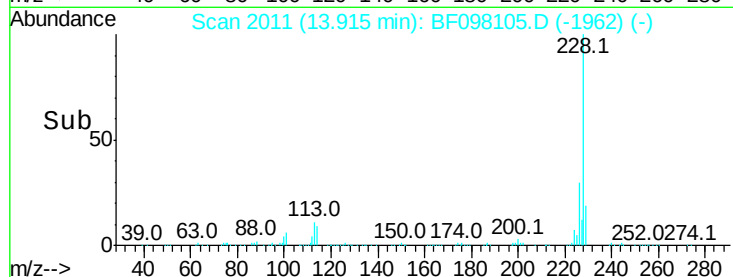
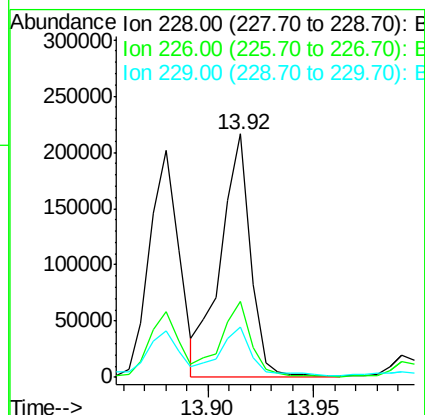
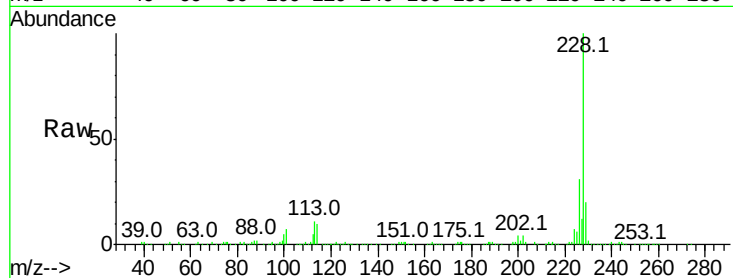
Tot Ion:228 Resp: 209894

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

229 20.5 15.8 23.6



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.372 ng

RT: 16.69 min Scan# 2482

Delta R.T. 0.00 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

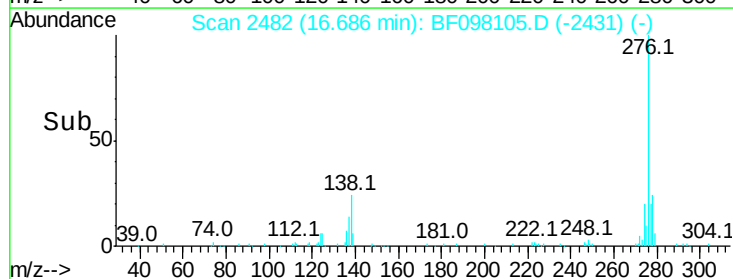
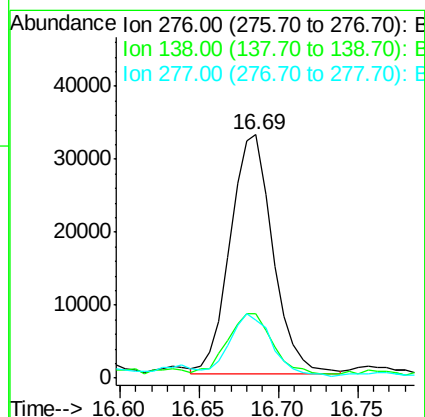
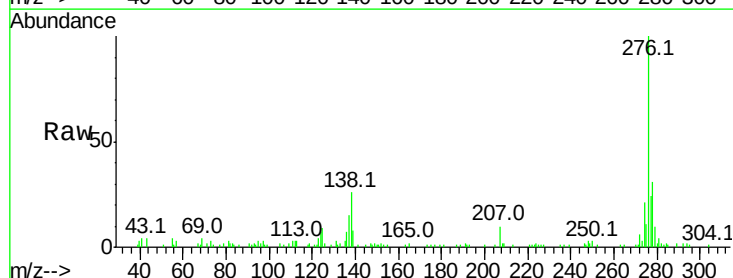
Tgt Ion:276 Resp: 61506

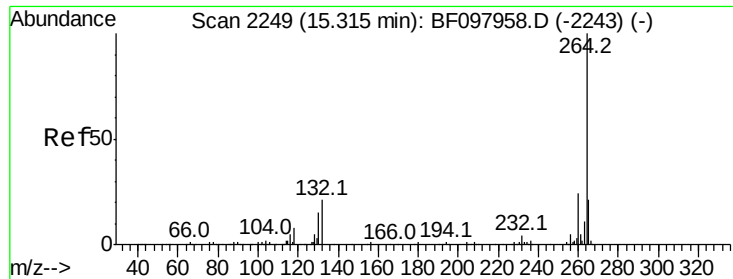
Ion Ratio Lower Upper

276 100

138 27.9 27.8 41.6

277 25.2 20.2 30.4

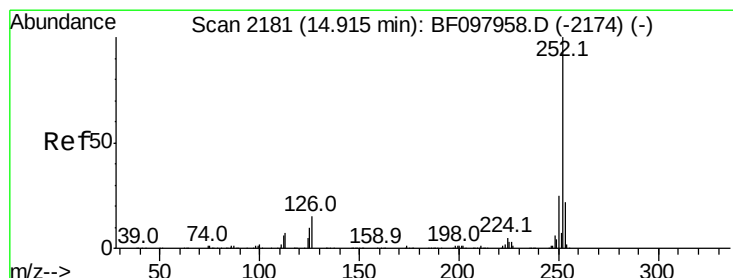
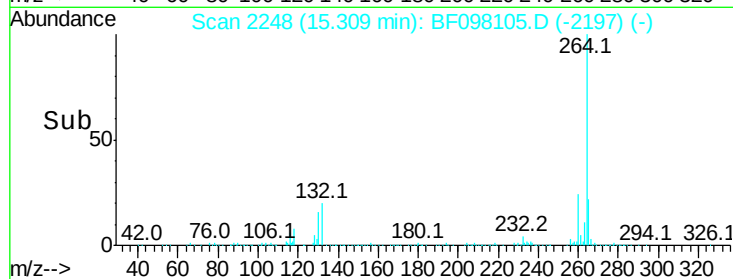
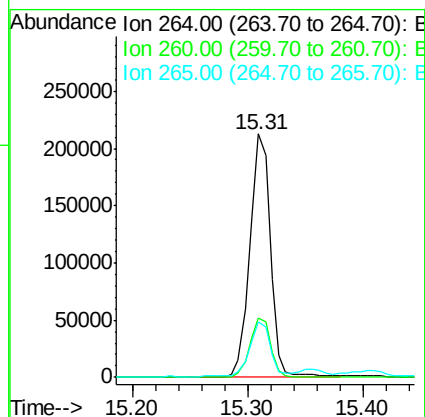
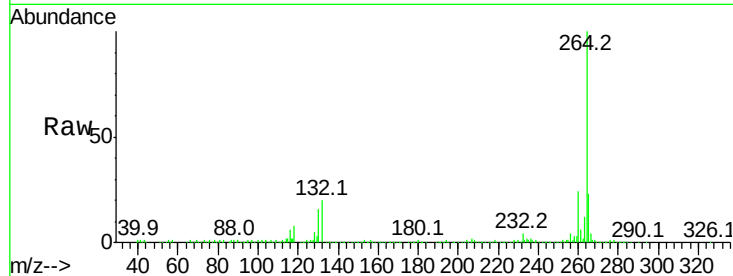




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.31 min Scan# 2248  
Delta R.T. 0.00 min  
Lab File: BF098105.D  
Acq: 29 Aug 2017 9:48

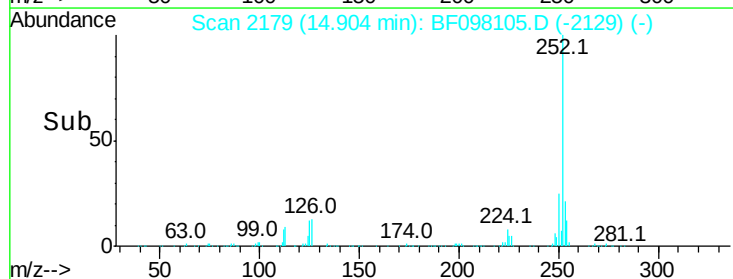
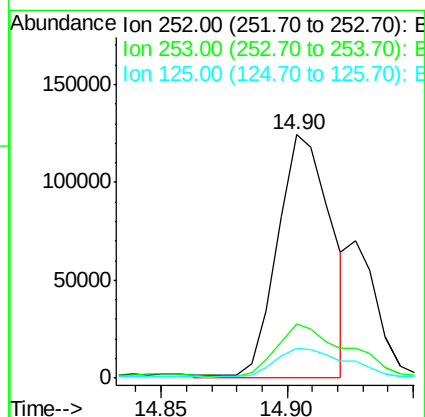
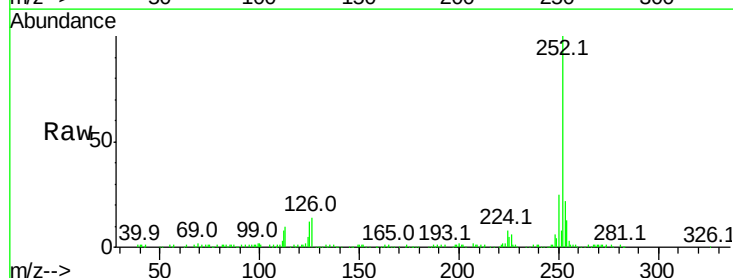
Instrument :  
BNA\_F  
ClientSampleId :  
SB-11-COMPDL

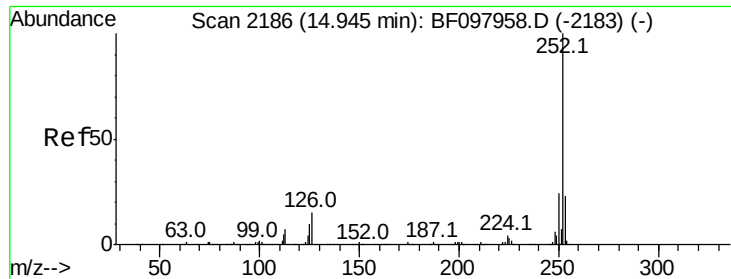
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.5  | 29.3  |
| 265     | 23.0  | 17.2  | 25.8  |



#87  
Benzo(b)fluoranthene  
Concen: 11.026 ng m  
RT: 14.90 min Scan# 2179  
Delta R.T. -0.01 min  
Lab File: BF098105.D  
Acq: 29 Aug 2017 9:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.1  | 27.1  |
| 125     | 12.2  | 9.8   | 14.8  |





#88

Benzo(k)fluoranthene

Concen: 3.674 ng

RT: 14.93 min Scan# 2183

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

Instrument :

BNA\_F

ClientSampleId :

SB-11-COMPDL

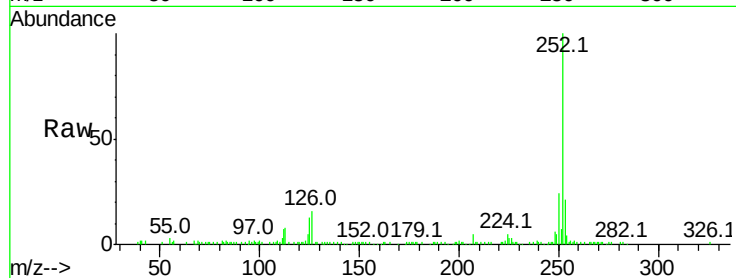
Tot Ion:252 Resp: 57821

Ion Ratio Lower Upper

252 100

253 21.3 18.4 27.6

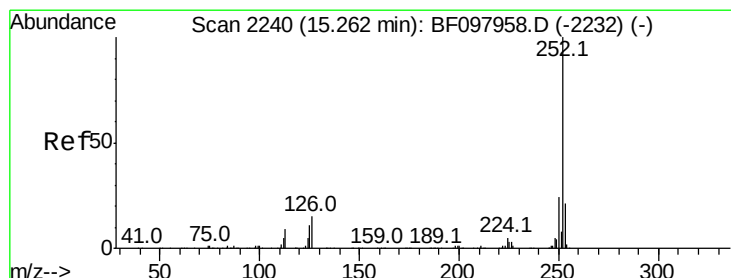
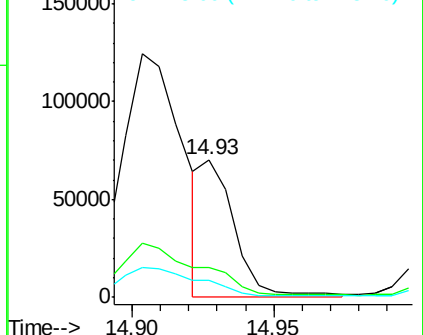
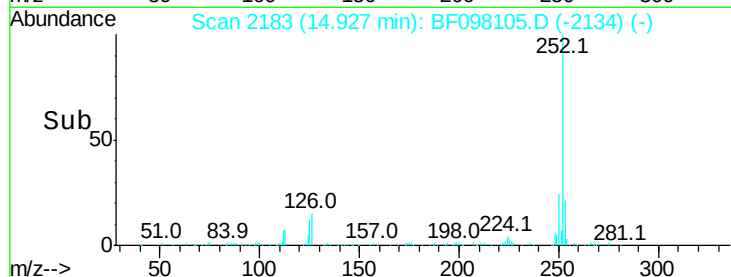
125 12.8 13.1 19.7#



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



#89

Benzo(a)pyrene

Concen: 12.286 ng

RT: 15.25 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

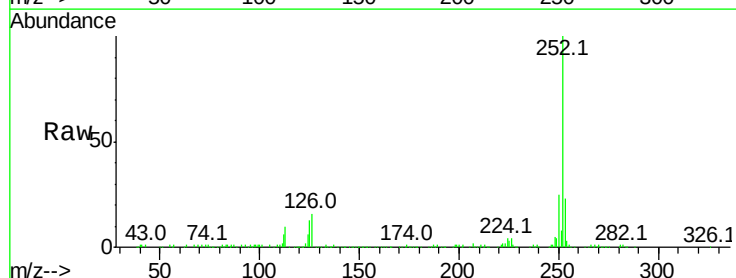
Tgt Ion:252 Resp: 182219

Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

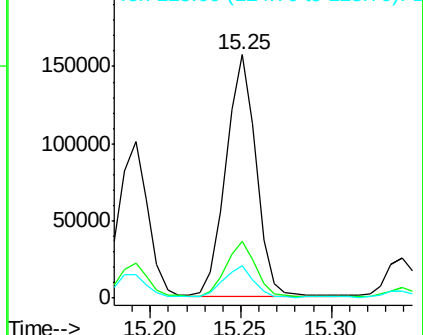
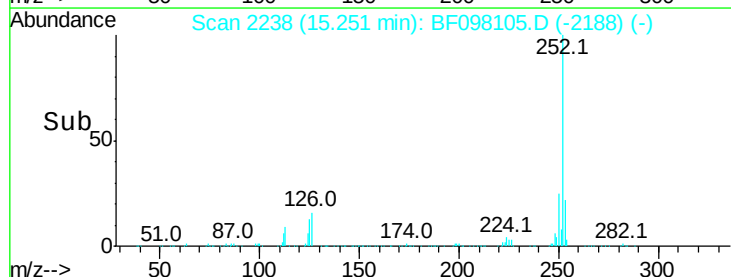
125 13.3 11.0 16.4

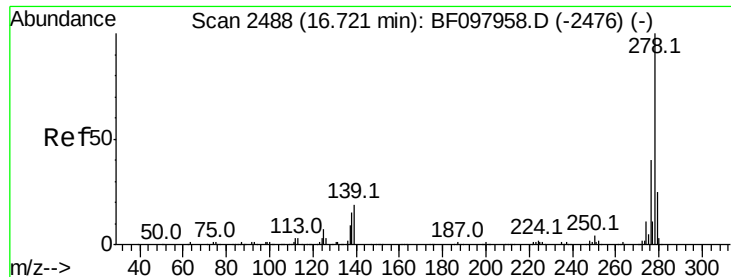


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.028 ng

RT: 16.69 min Scan# 2483

Delta R.T. -0.02 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

Instrument :

BNA\_F

ClientSampleId :

SB-11-COMPDL

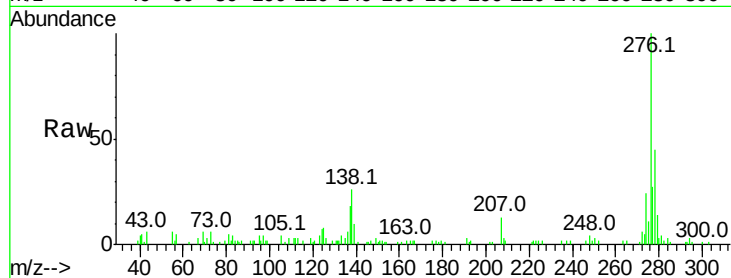
Tot Ion:278 Resp: 24485

Ion Ratio Lower Upper

278 100

139 22.7 16.6 24.8

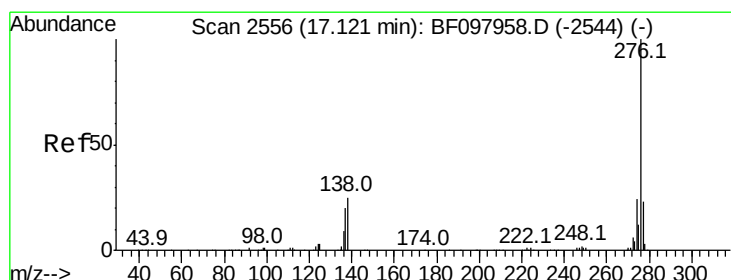
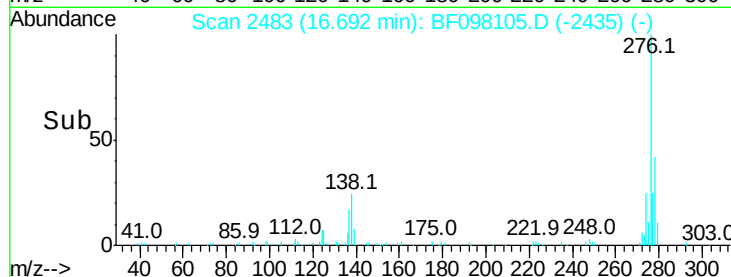
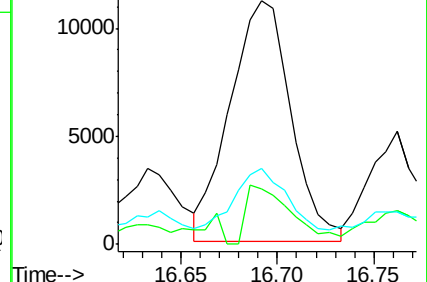
279 31.4 19.3 28.9#



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: 4.836 ng

RT: 17.10 min Scan# 2552

Delta R.T. -0.01 min

Lab File: BF098105.D

Acq: 29 Aug 2017 9:48

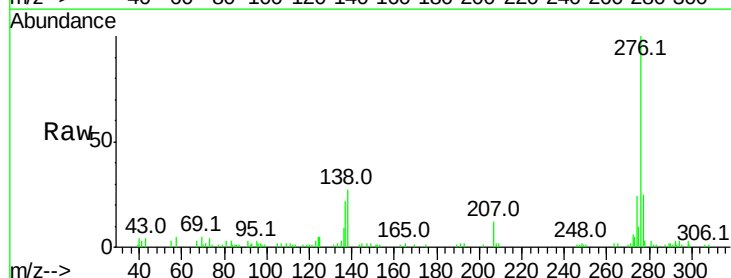
Tgt Ion:276 Resp: 60923

Ion Ratio Lower Upper

276 100

277 25.1 18.6 28.0

138 27.4 25.4 38.0



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

