

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072618\  
 Data File : BE097107.D  
 Acq On : 26 Jul 2018 17:51  
 Operator : SJ/JU  
 Sample : PB111184BS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 27 03:26:29 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE072418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 24 13:24:10 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 1157     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.14 | 136  | 5668     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.01 | 164  | 3526     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.76 | 188  | 9363     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.98 | 240  | 7932     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 6652     | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.05  | 112  | 1111     | 0.34 | ng    | 0.00     |
| 5) Phenol-d6                | 6.60  | 99   | 1618     | 0.34 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.52  | 82   | 1903     | 0.39 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.73 | 152  | 3292     | 0.39 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330  | 360      | 0.31 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.63 | 172  | 5024     | 0.41 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.81 | 212  | 34642    | 0.37 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.43 | 244  | 6264     | 0.41 | ng    | 0.00     |

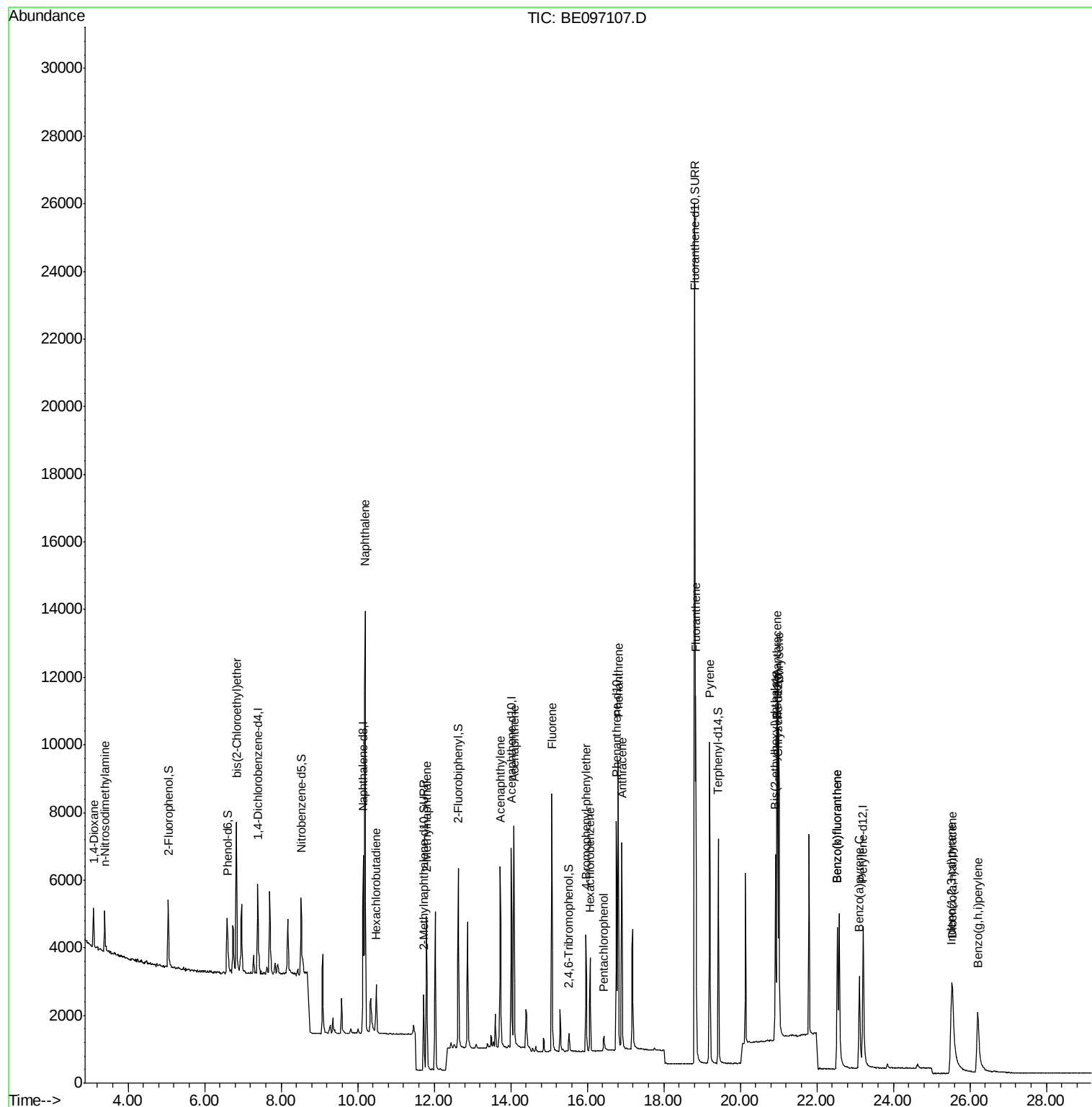
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.10  | 88   | 761      | 0.414 | ng    | # 91   |
| 3) n-Nitrosodimethylamine      | 3.38  | 42   | 835      | 0.406 | ng    | # 86   |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 1739     | 0.399 | ng    | 96     |
| 9) Naphthalene                 | 10.20 | 128  | 21248    | 0.418 | ng    | 100    |
| 10) Hexachlorobutadiene        | 10.48 | 225  | 984      | 0.432 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 11.80 | 142  | 3471     | 0.398 | ng    | 99     |
| 16) Acenaphthylene             | 13.73 | 152  | 6404     | 0.405 | ng    | 100    |
| 17) Acenaphthene               | 14.08 | 154  | 3693     | 0.401 | ng    | # 90   |
| 18) Fluorene                   | 15.07 | 166  | 4775     | 0.393 | ng    | # 78   |
| 20) 4-Bromophenyl-phenylether  | 15.97 | 248  | 1836     | 0.404 | ng    | 85     |
| 21) Hexachlorobenzene          | 16.08 | 284  | 2157     | 0.442 | ng    | # 84   |
| 22) Pentachlorophenol          | 16.44 | 266  | 337      | 0.312 | ng    | 81     |
| 23) Phenanthrene               | 16.81 | 178  | 9137     | 0.409 | ng    | 99     |
| 24) Anthracene                 | 16.90 | 178  | 7524     | 0.377 | ng    | 95     |
| 26) Fluoranthene               | 18.84 | 202  | 9652     | 0.385 | ng    | 99     |
| 28) Pyrene                     | 19.20 | 202  | 8957     | 0.412 | ng    | 99     |
| 30) Benzo(a)anthracene         | 20.95 | 228  | 6698     | 0.339 | ng    | 99     |
| 31) Chrysene                   | 21.00 | 228  | 9012     | 0.426 | ng    | 98     |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149  | 6135     | 0.297 | ng    | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.52 | 276  | 6398     | 0.334 | ng    | # 92   |
| 35) Benzo(b)fluoranthene       | 22.54 | 252  | 5817     | 0.345 | ng    | # 89   |
| 36) Benzo(k)fluoranthene       | 22.54 | 252  | 5817     | 0.295 | ng    | 95     |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 5372     | 0.338 | ng    | # 92   |
| 38) Dibenzo(a,h)anthracene     | 25.54 | 278  | 5250     | 0.331 | ng    | 98     |
| 39) Benzo(g,h,i)perylene       | 26.21 | 276  | 5428     | 0.323 | ng    | # 89   |

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

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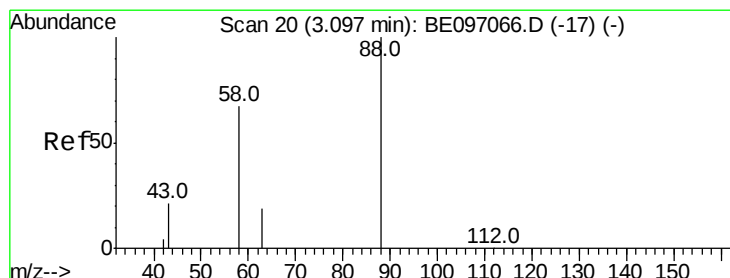
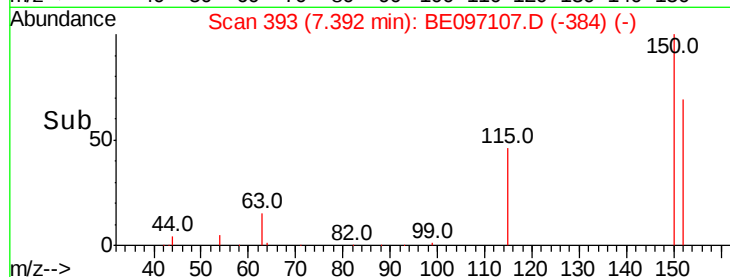
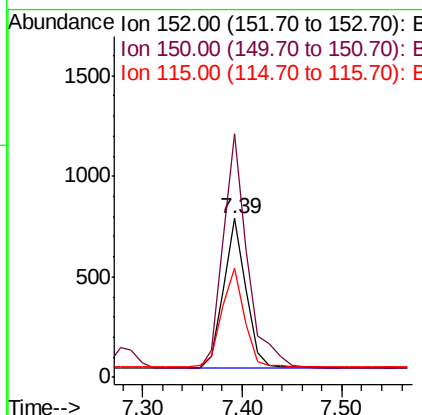
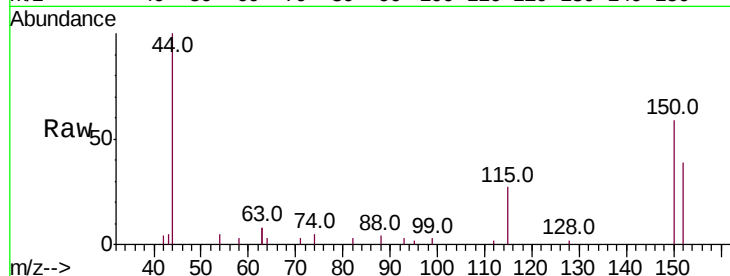


#1

1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.39 min Scan# 393  
 Delta R.T. -0.00 min  
 Lab File: BE097107.D  
 Acq: 26 Jul 2018 17:51

Instrument :  
 BNA\_E  
 ClientSampleId :

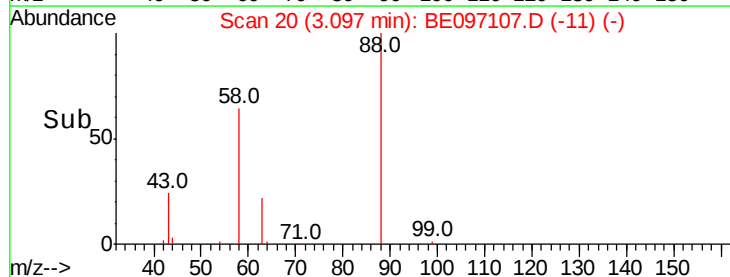
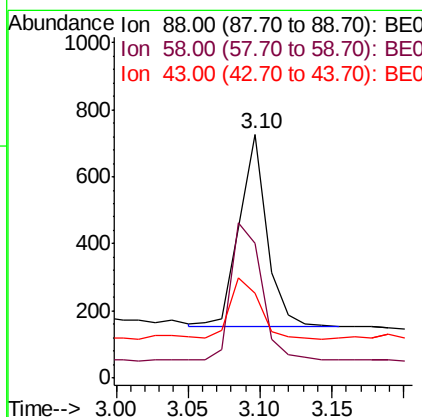
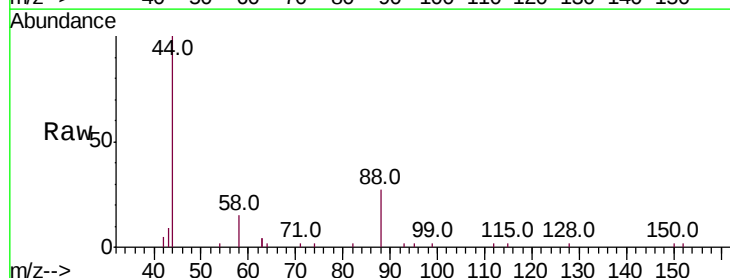
Tot Ion:152 Resp: 1157  
 Ion Ratio Lower Upper  
 152 100  
 150 153.3 117.2 175.8  
 115 68.6 57.0 85.6



#2

1,4-Dioxane  
 Concen: 0.414 ng  
 RT: 3.10 min Scan# 20  
 Delta R.T. -0.00 min  
 Lab File: BE097107.D  
 Acq: 26 Jul 2018 17:51

Tgt Ion: 88 Resp: 761  
 Ion Ratio Lower Upper  
 88 100  
 58 80.2 63.2 94.8  
 43 37.7 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 0.406 ng

RT: 3.38 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

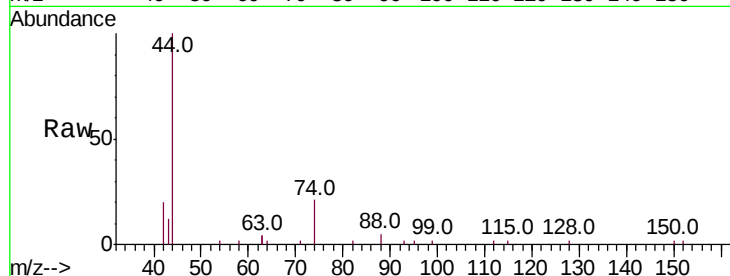
Tot Ion: 42 Resp: 835

Ion Ratio Lower Upper

42 100

74 103.8 96.0 144.0

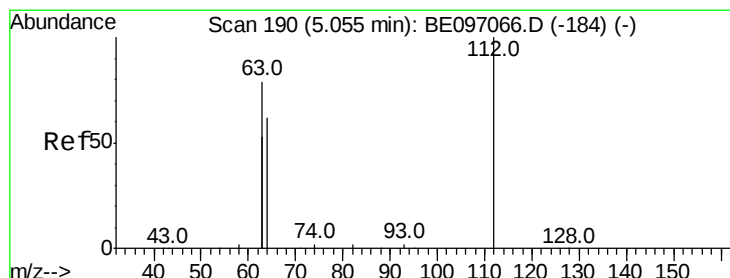
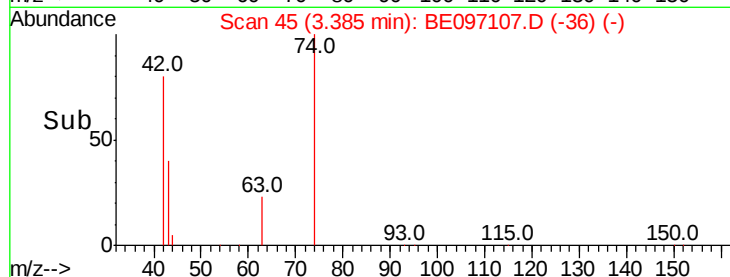
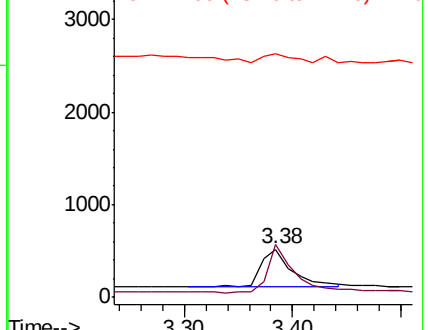
44 20.2 12.0 18.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.342 ng

RT: 5.05 min Scan# 190

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

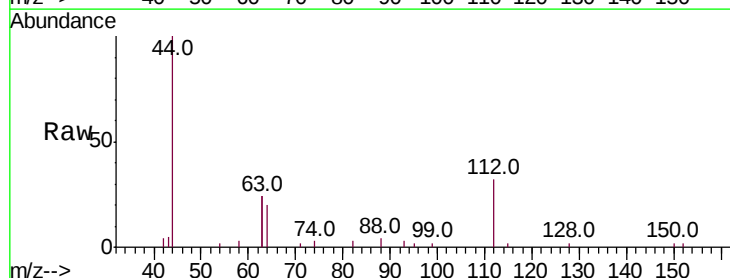
Tgt Ion: 112 Resp: 1111

Ion Ratio Lower Upper

112 100

64 69.4 60.1 90.1

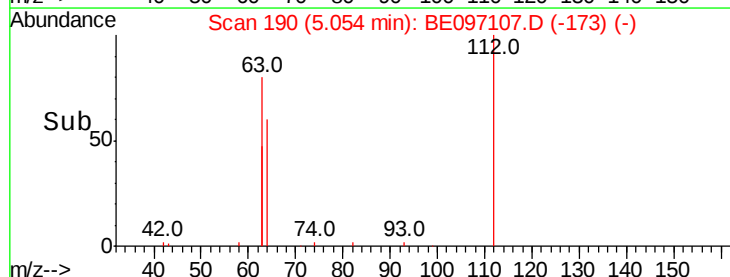
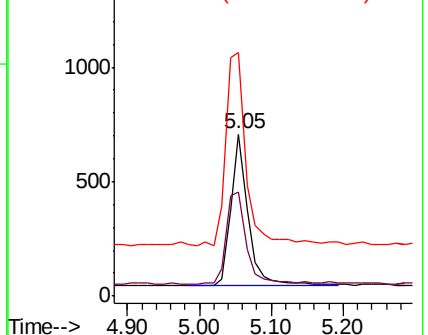
63 148.1 116.8 175.2

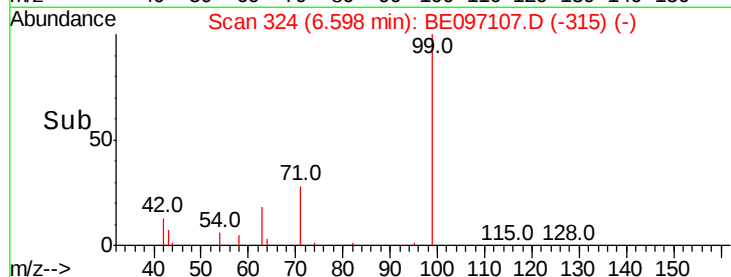
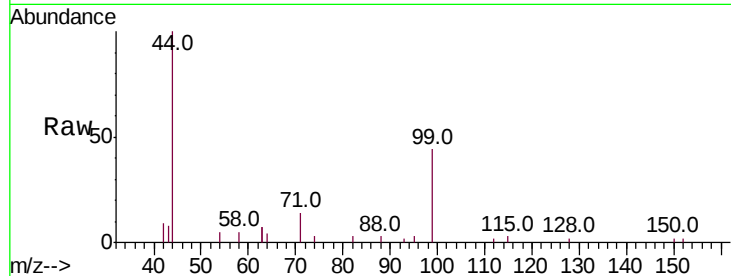
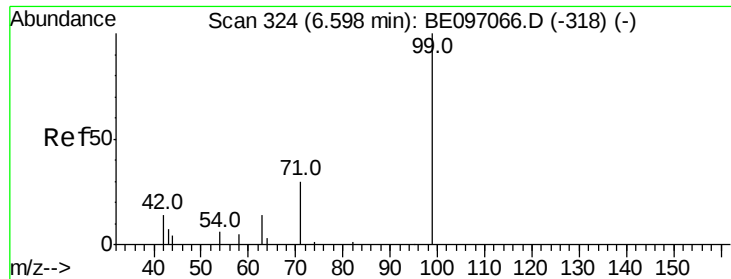


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.339 ng

RT: 6.60 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

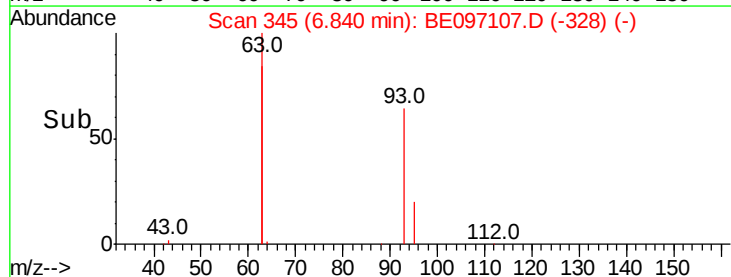
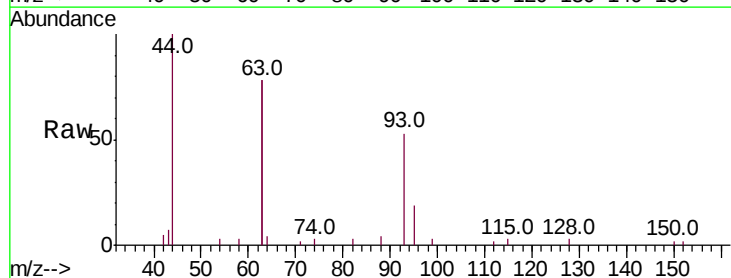
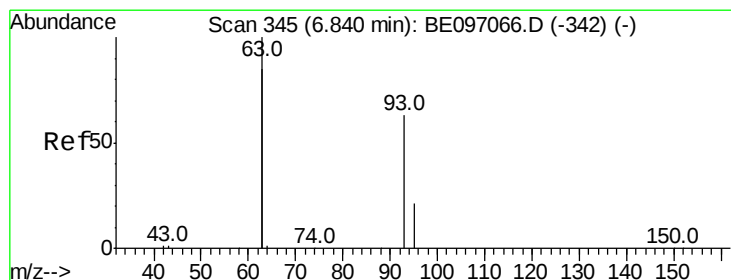
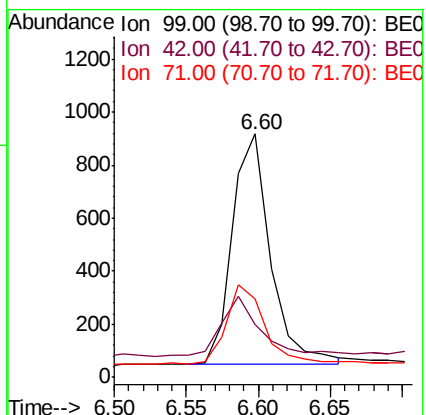
Tot Ion: 99 Resp: 1618

Ion Ratio Lower Upper

99 100

42 26.3 20.2 30.2

71 34.9 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.399 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

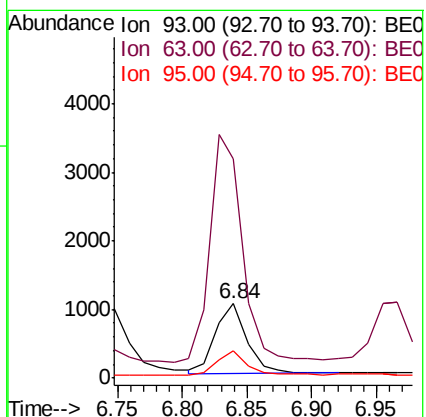
Tgt Ion: 93 Resp: 1739

Ion Ratio Lower Upper

93 100

63 334.7 275.3 412.9

95 30.8 25.2 37.8





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.14 min Scan# 613

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 5668

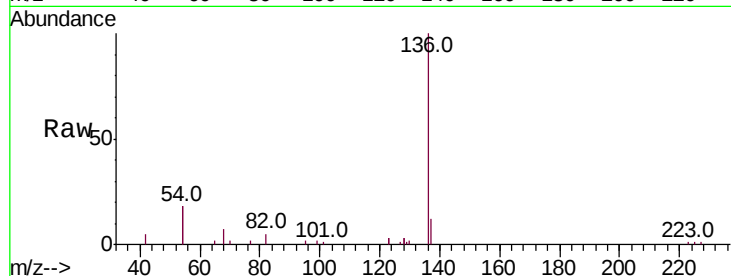
Ion Ratio Lower Upper

136 100

137 11.9 9.5 14.3

54 35.8 29.1 43.7

68 7.3 6.2 9.2

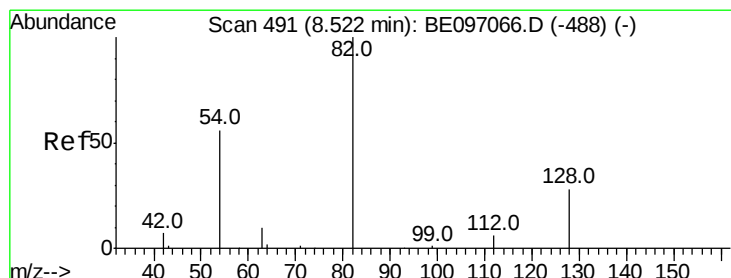
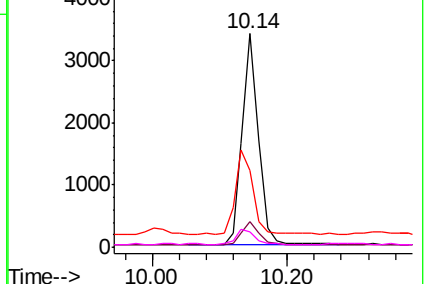
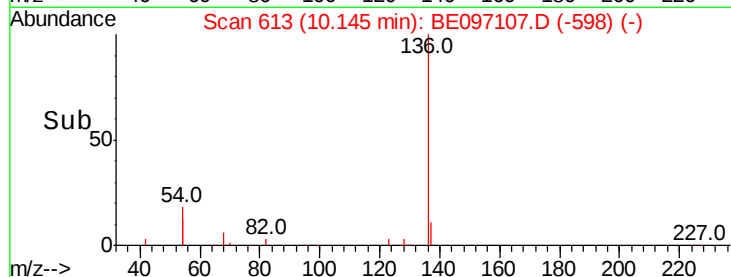


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.386 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

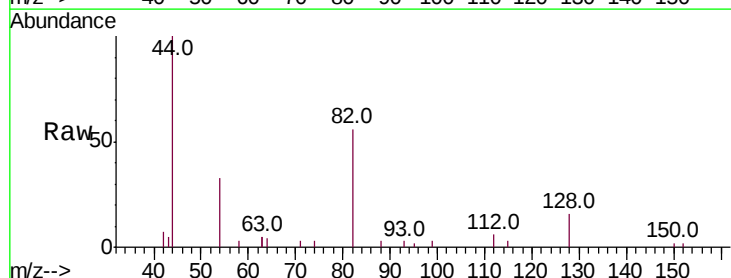
Tgt Ion: 82 Resp: 1903

Ion Ratio Lower Upper

82 100

128 29.2 24.0 36.0

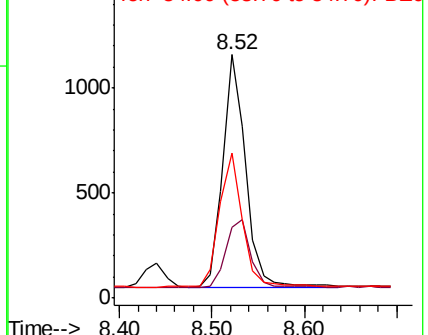
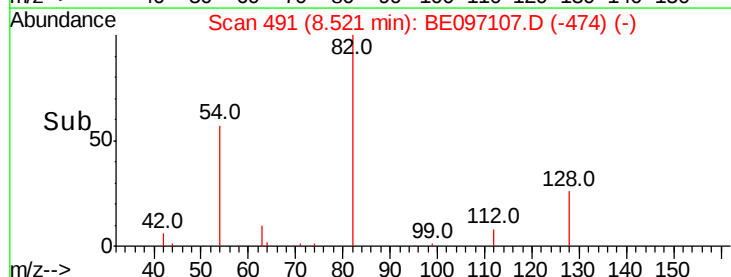
54 59.5 40.0 60.0

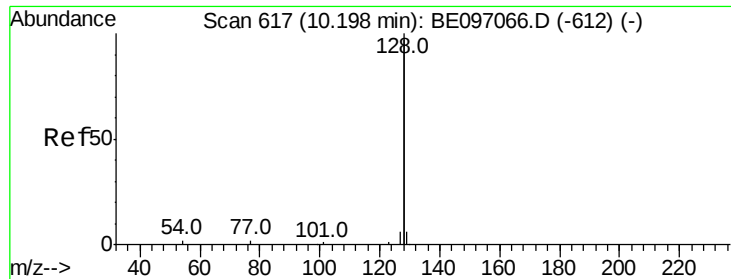


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.418 ng

RT: 10.20 min Scan# 617

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

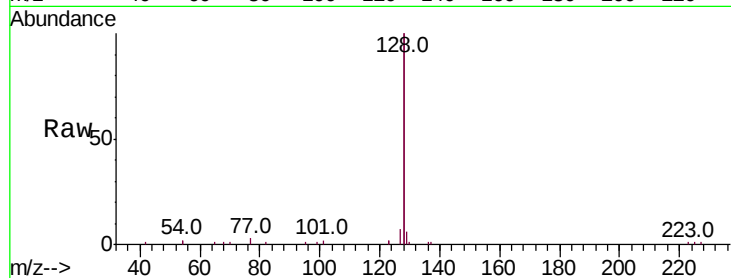
Tot Ion:128 Resp: 21248

Ion Ratio Lower Upper

128 100

129 3.1 2.6 3.8

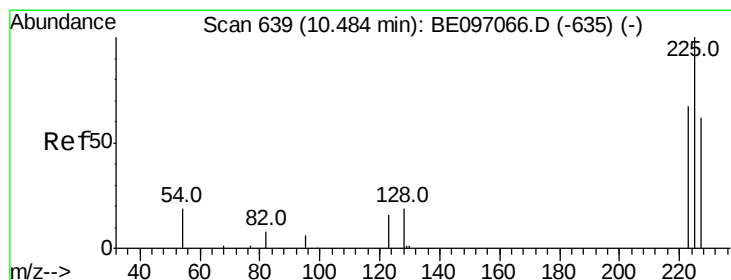
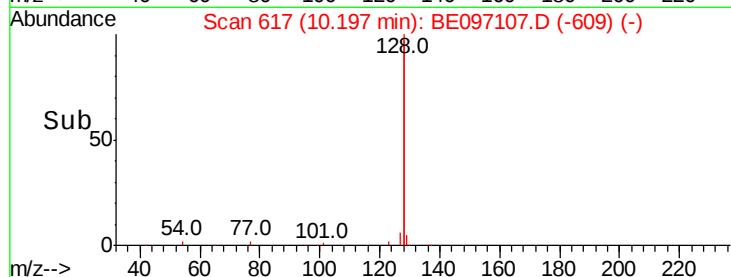
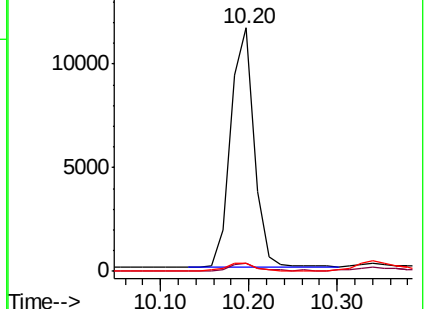
127 3.6 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.432 ng

RT: 10.48 min Scan# 639

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

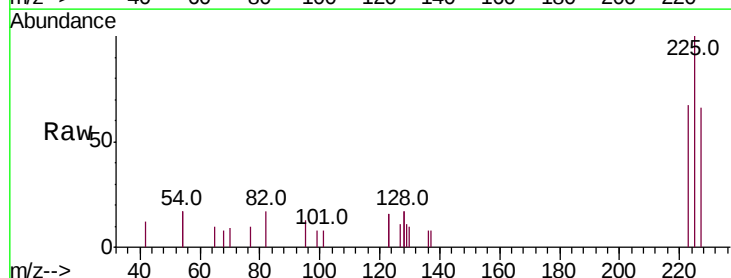
Tgt Ion:225 Resp: 984

Ion Ratio Lower Upper

225 100

223 63.4 53.0 79.6

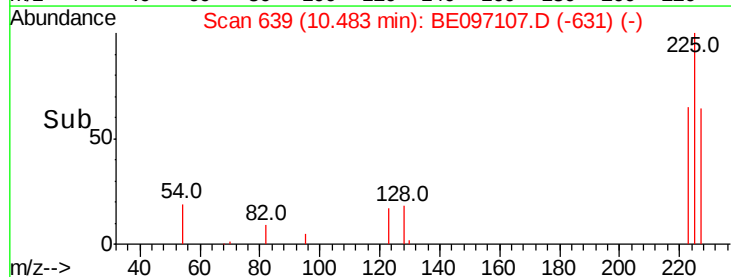
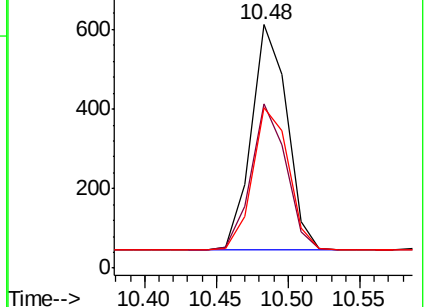
227 64.6 51.4 77.2



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.388 ng

RT: 11.73 min Scan# 761

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

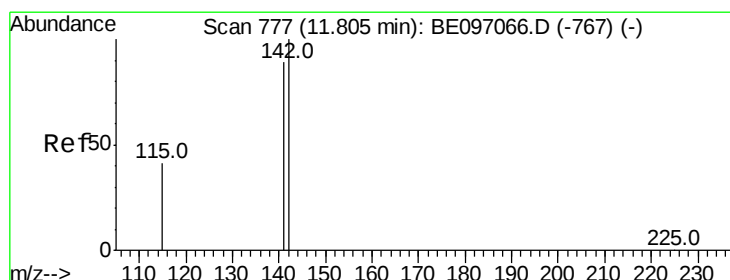
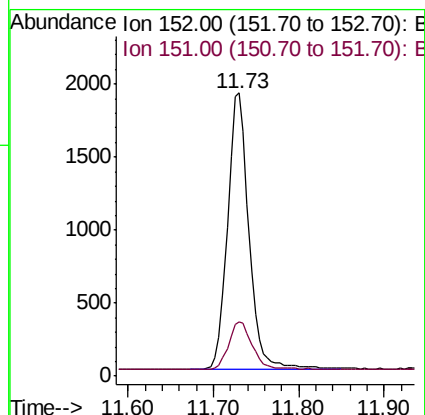
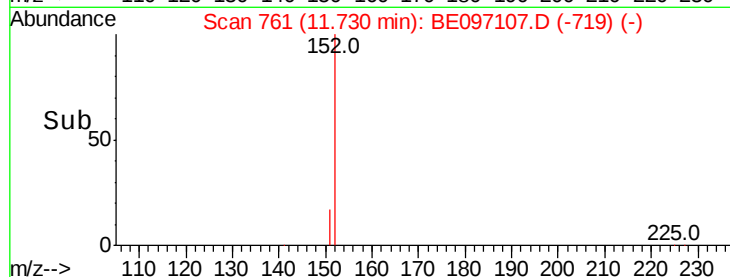
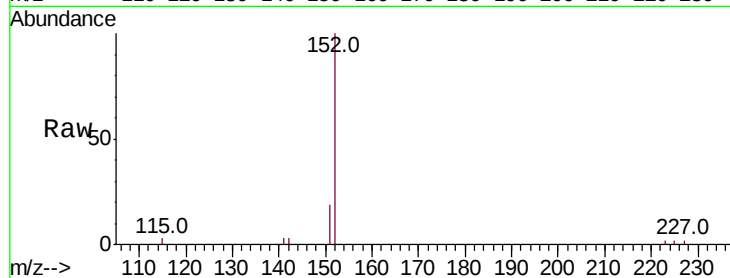
ClientSampleId :

Tot Ion:152 Resp: 3292

Ion Ratio Lower Upper

152 100

151 18.7 15.4 23.0



#12

2-Methylnaphthalene

Concen: 0.398 ng

RT: 11.80 min Scan# 776

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

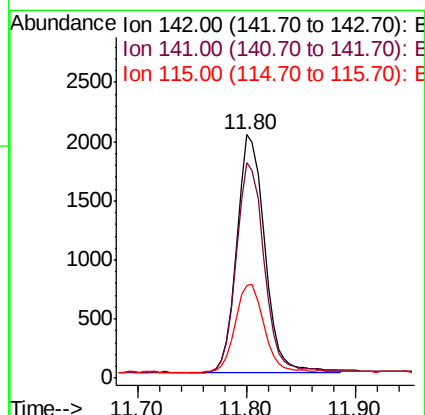
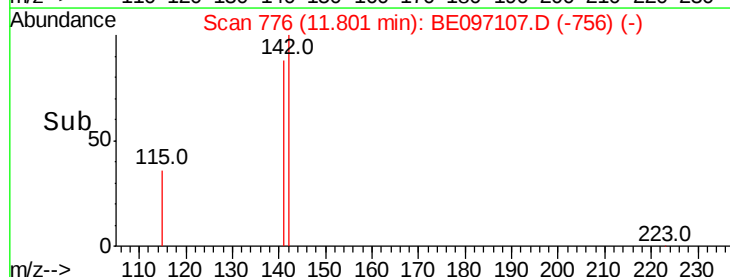
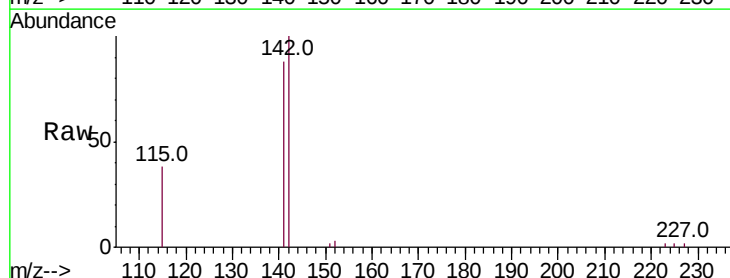
Tgt Ion:142 Resp: 3471

Ion Ratio Lower Upper

142 100

141 88.5 70.4 105.6

115 38.2 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.01 min Scan# 1027

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

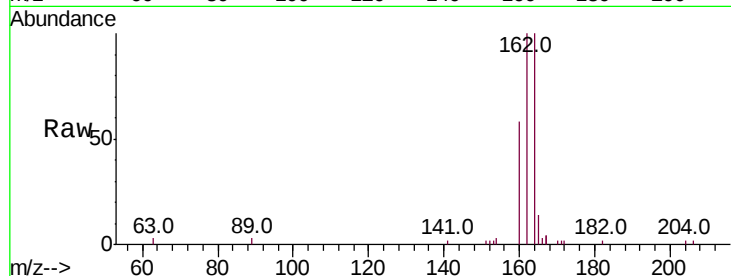
Tot Ion:164 Resp: 3526

Ion Ratio Lower Upper

164 100

162 100.0 83.1 124.7

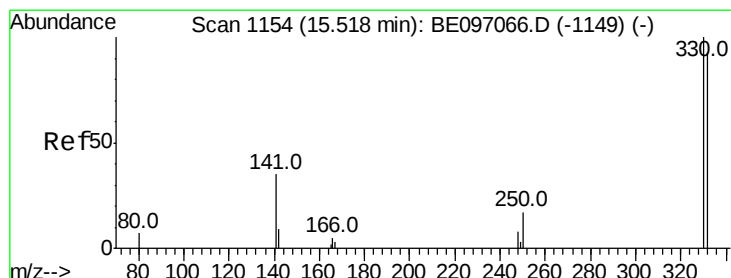
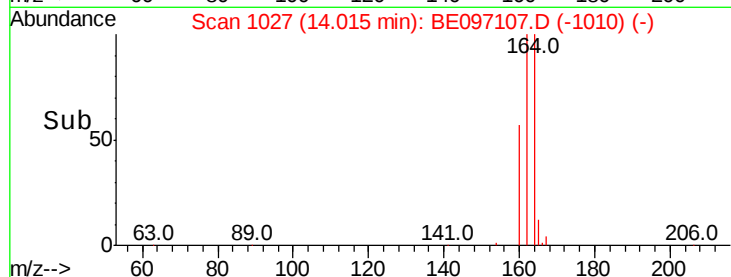
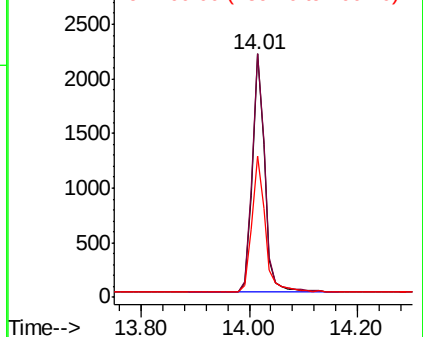
160 57.8 37.1 55.7#



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



#14

2,4,6-Tribromophenol

Concen: 0.310 ng

RT: 15.52 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

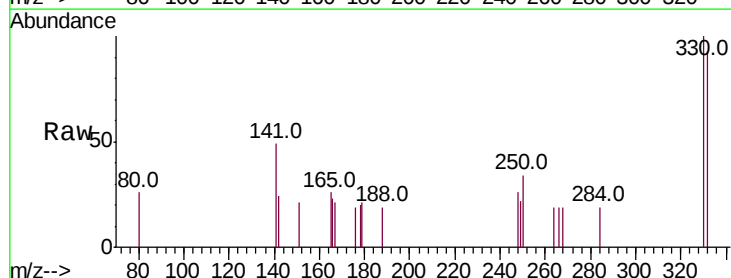
Tgt Ion:330 Resp: 360

Ion Ratio Lower Upper

330 100

332 95.3 152.7 229.1#

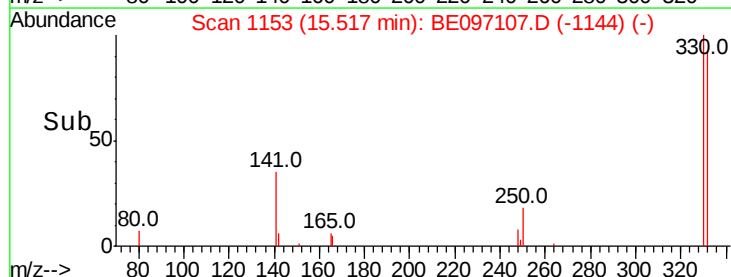
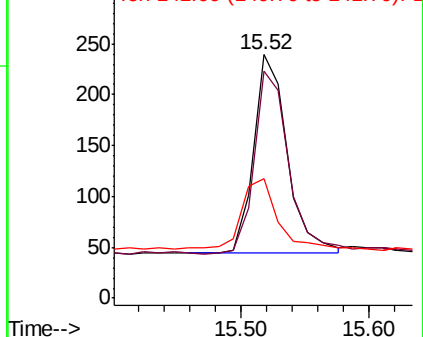
141 38.1 33.7 50.5

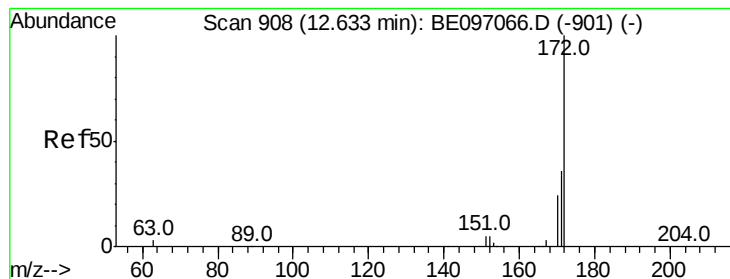


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.413 ng

RT: 12.63 min Scan# 907

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

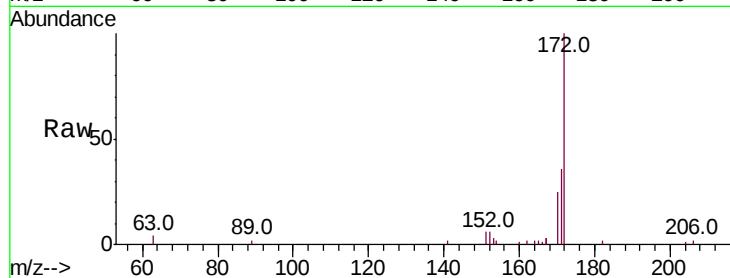
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:172 Resp: 5024

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.9  | 29.9  | 44.9  |
| 170 | 24.8  | 21.8  | 32.8  |

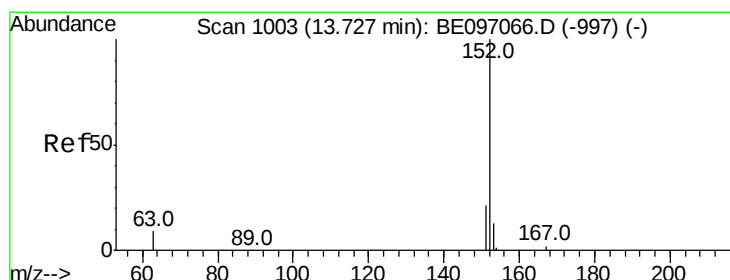
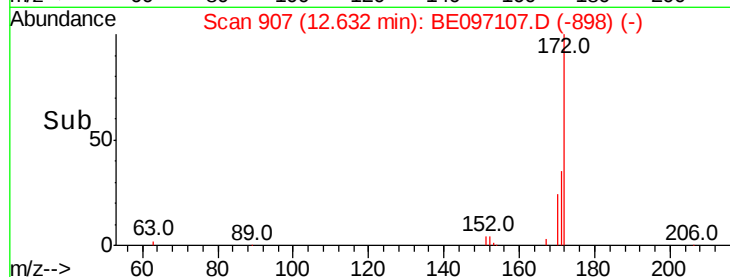
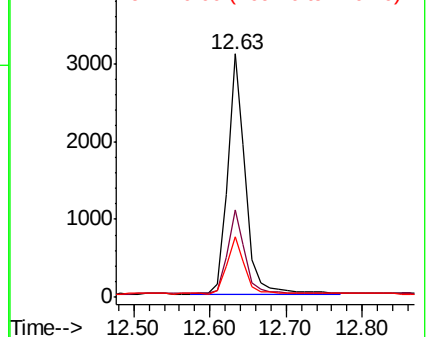


Abundance

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



#16

Acenaphthylene

Concen: 0.405 ng

RT: 13.73 min Scan# 1002

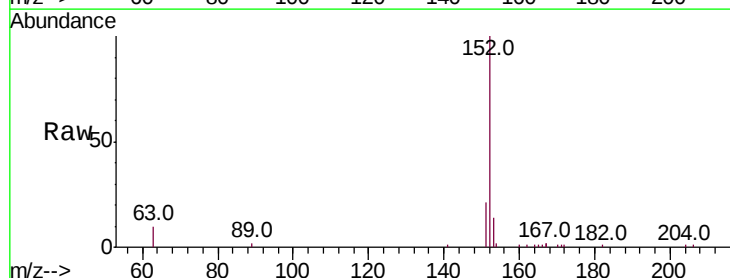
Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Tgt Ion:152 Resp: 6404

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 19.7  | 15.7  | 23.5  |
| 153 | 12.9  | 10.5  | 15.7  |

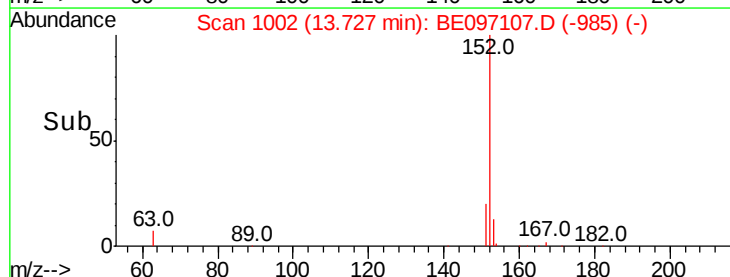
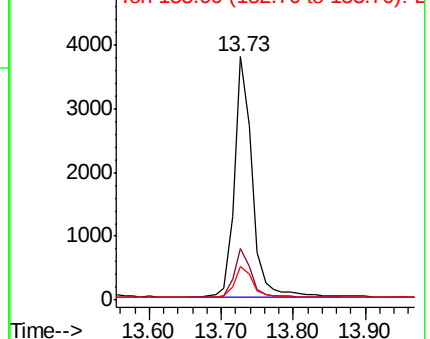


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.401 ng

RT: 14.08 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

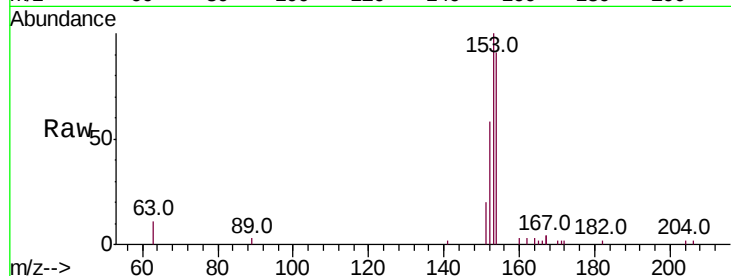
Tot Ion:154 Resp: 3693

Ion Ratio Lower Upper

154 100

153 115.1 89.2 133.8

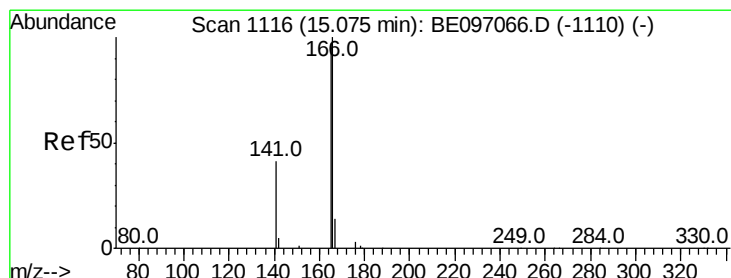
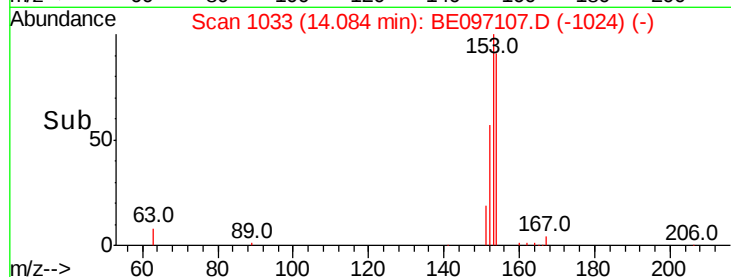
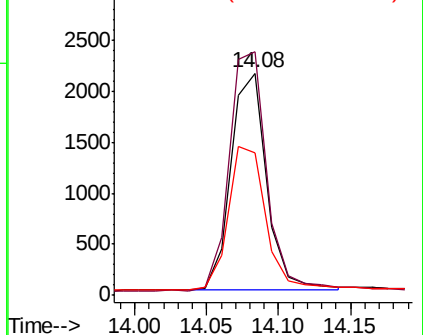
152 69.5 42.0 63.0#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.393 ng

RT: 15.07 min Scan# 1115

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

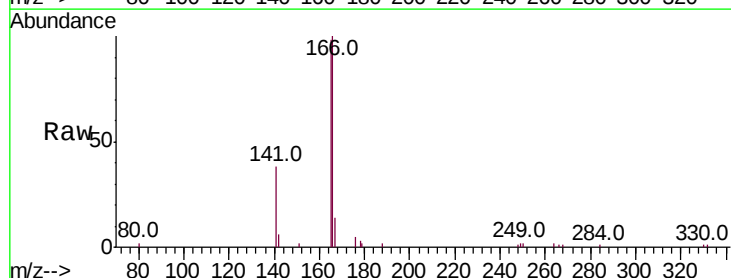
Tgt Ion:166 Resp: 4775

Ion Ratio Lower Upper

166 100

165 100.6 77.8 116.6

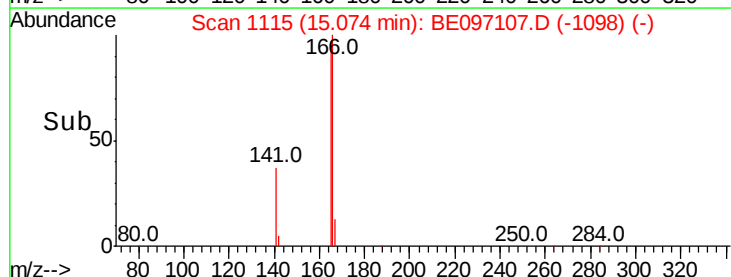
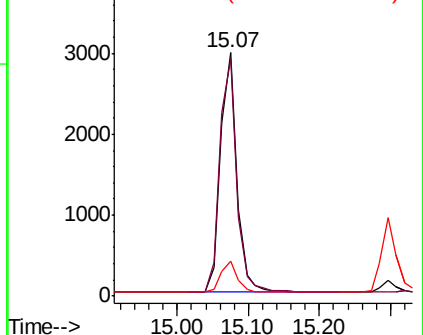
167 13.5 42.4 63.6#



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.76 min Scan# 1260

Delta R.T. -0.00 min

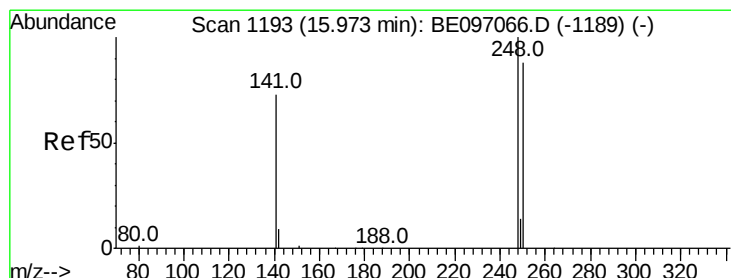
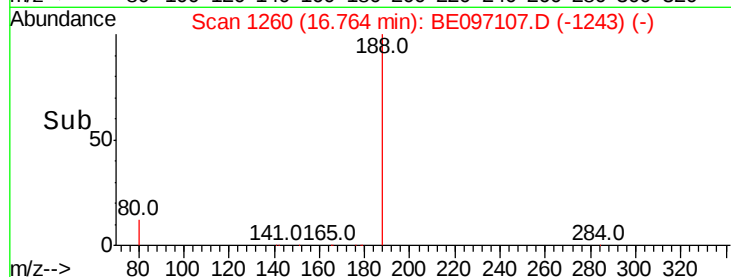
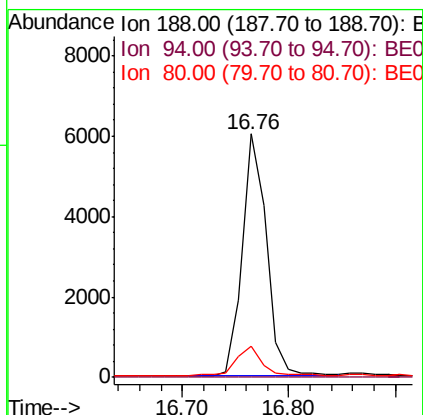
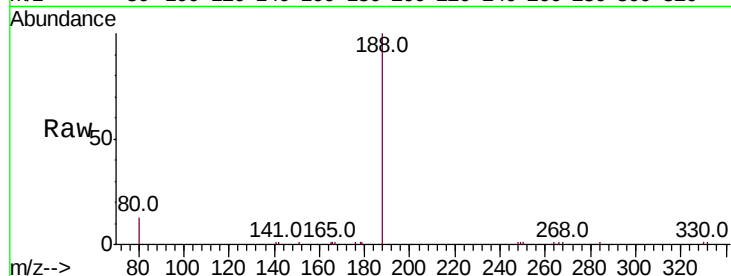
Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:188 Resp: 9363

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 0.0   | 3.9   | 5.9#  |
| 80  | 12.7  | 3.6   | 5.4#  |



#20

4-Bromophenyl-phenylether

Concen: 0.404 ng

RT: 15.97 min Scan# 1192

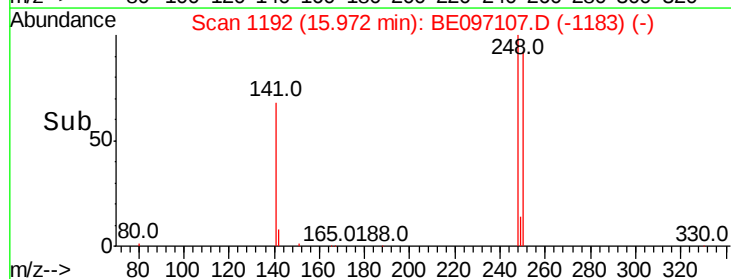
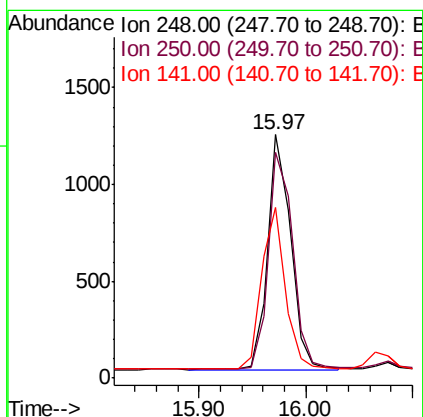
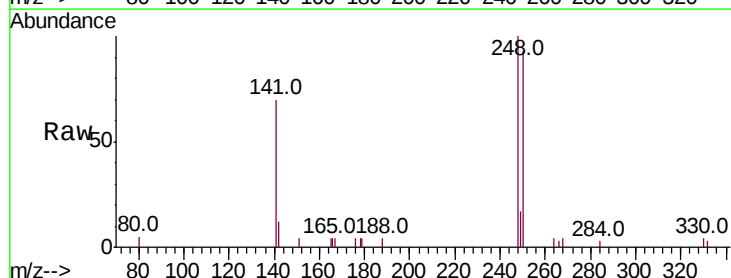
Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Tgt Ion:248 Resp: 1836

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 248 | 100   |       |       |
| 250 | 92.8  | 62.7  | 94.1  |
| 141 | 69.9  | 48.2  | 72.2  |





#21

Hexachlorobenzene

Concen: 0.442 ng

RT: 16.08 min Scan# 1201

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampled :

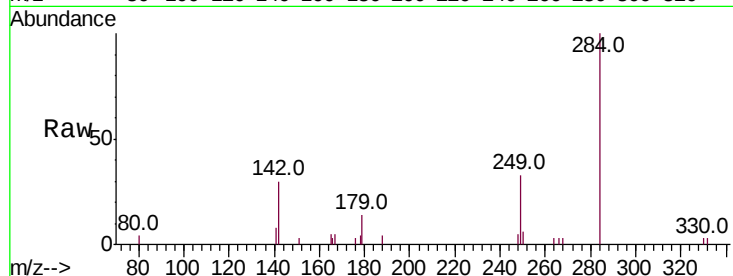
Tot Ion:284 Resp: 2157

Ion Ratio Lower Upper

284 100

142 33.2 22.1 33.1#

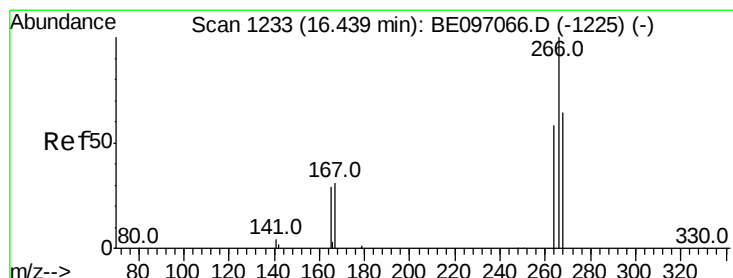
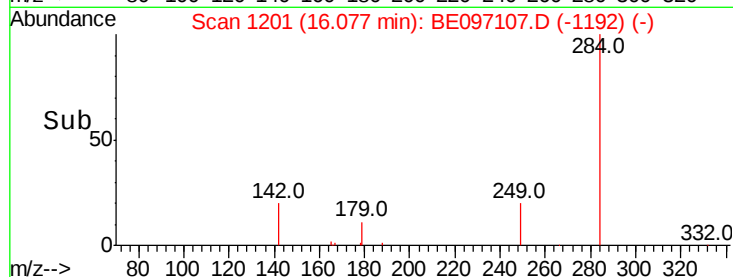
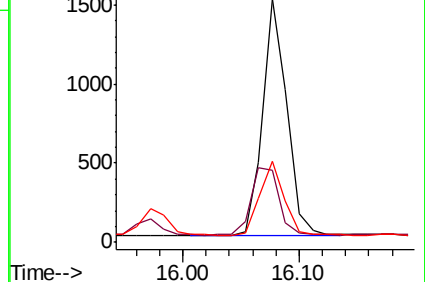
249 31.1 34.8 52.2#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.312 ng

RT: 16.44 min Scan# 1232

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

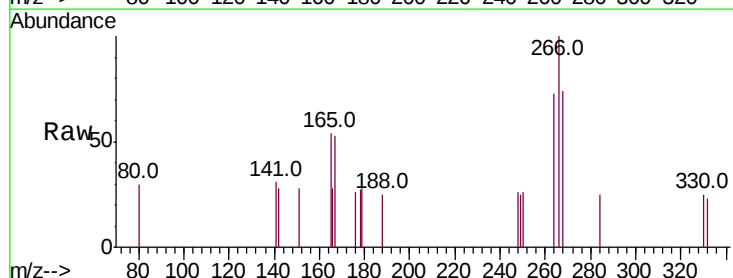
Tgt Ion:266 Resp: 337

Ion Ratio Lower Upper

266 100

264 72.7 72.5 108.7

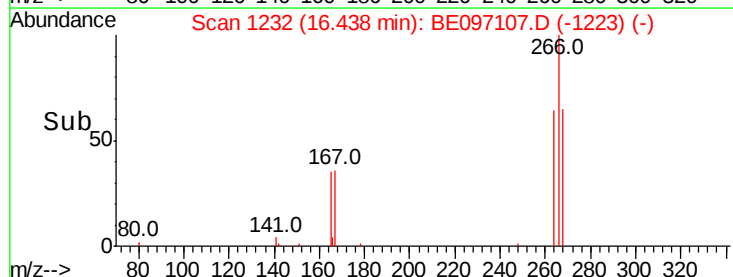
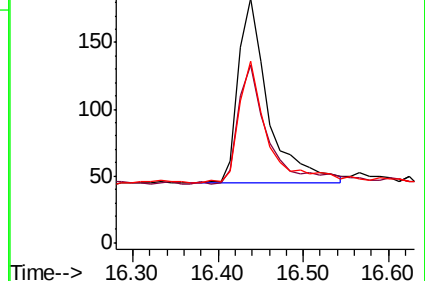
268 74.3 73.8 110.6



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.409 ng

RT: 16.81 min Scan# 1264

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

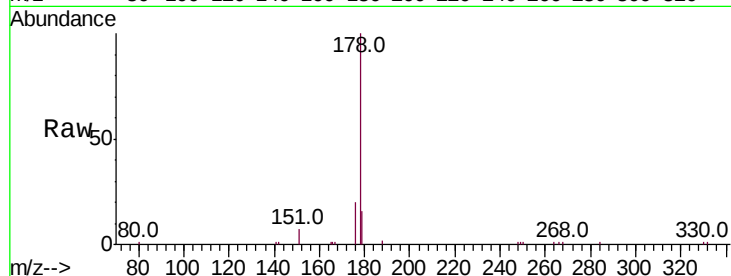
Tot Ion:178 Resp: 9137

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

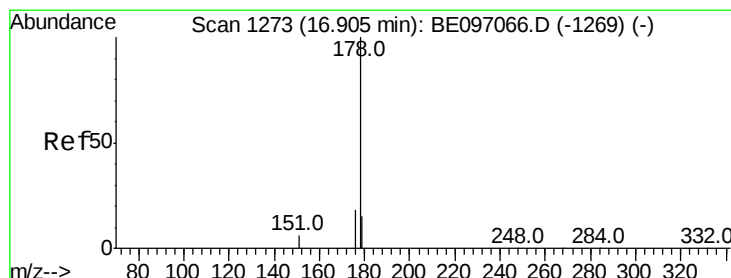
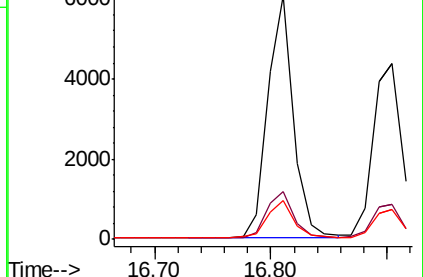
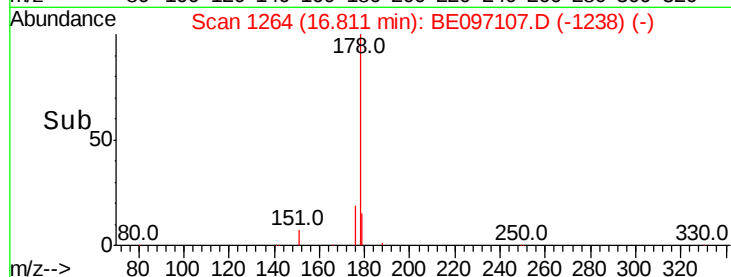
179 15.4 11.8 17.6



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



#24

Anthracene

Concen: 0.377 ng

RT: 16.90 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

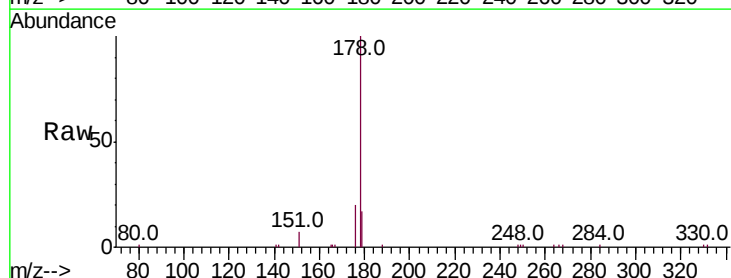
Tgt Ion:178 Resp: 7524

Ion Ratio Lower Upper

178 100

176 18.9 12.8 19.2

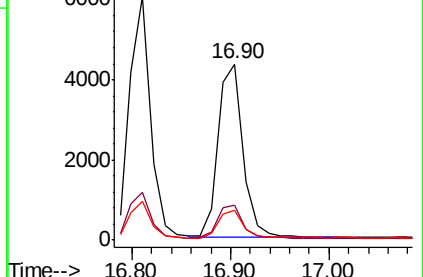
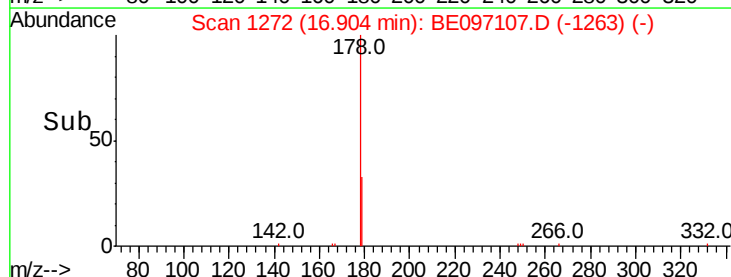
179 15.2 13.0 19.6



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





#25

Fluoranthene-d10

Concen: 0.370 ng

RT: 18.81 min Scan# 1502

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

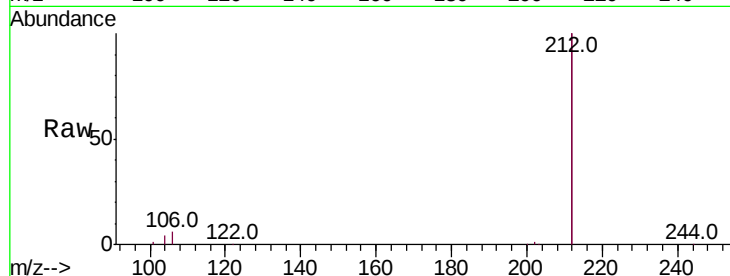
Tot Ion:212 Resp: 34642

Ion Ratio Lower Upper

212 100

106 3.0 2.8 4.2

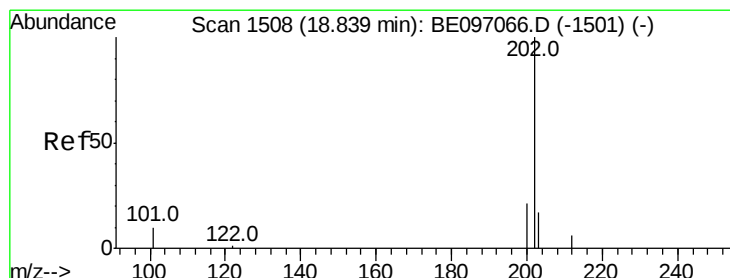
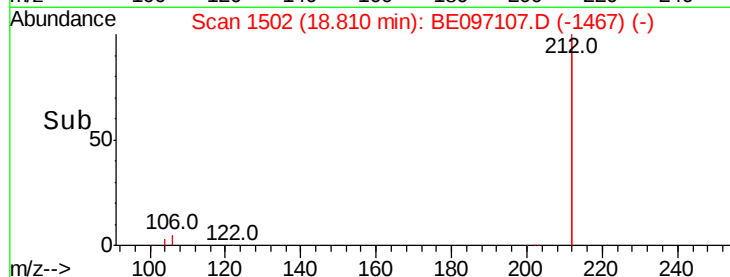
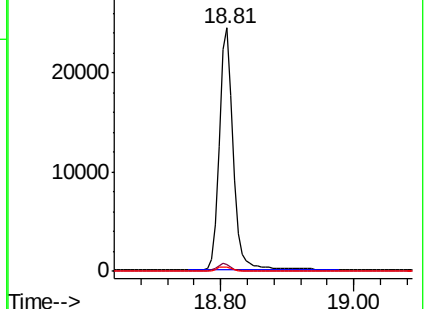
104 1.8 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.385 ng

RT: 18.84 min Scan# 1507

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

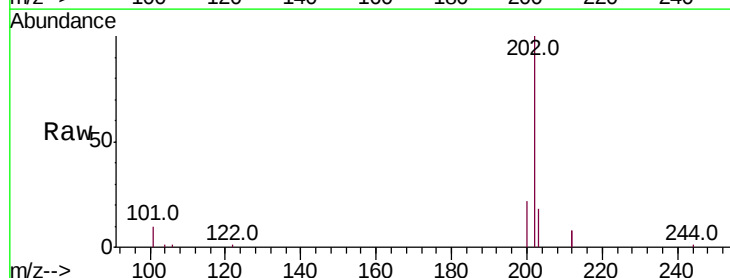
Tgt Ion:202 Resp: 9652

Ion Ratio Lower Upper

202 100

101 11.0 9.8 14.8

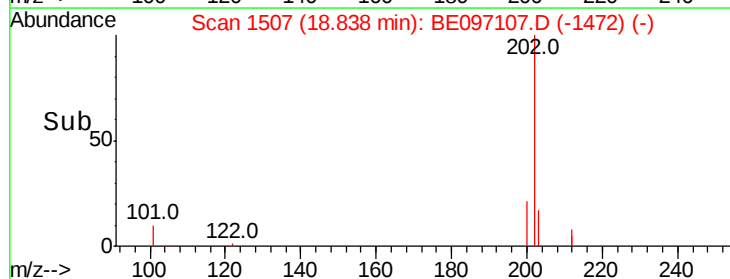
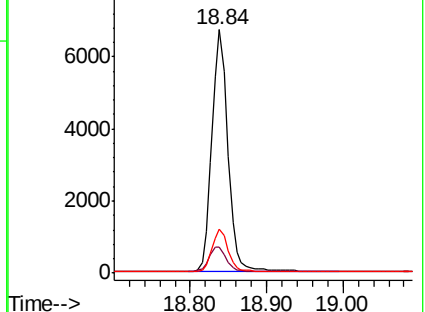
203 17.1 13.7 20.5



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





#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.98 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

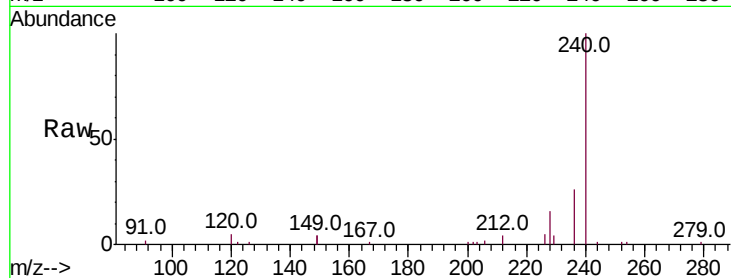
Tot Ion:240 Resp: 7932

Ion Ratio Lower Upper

240 100

120 5.2 5.5 8.3#

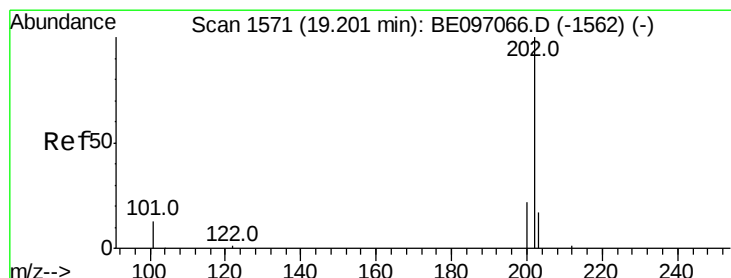
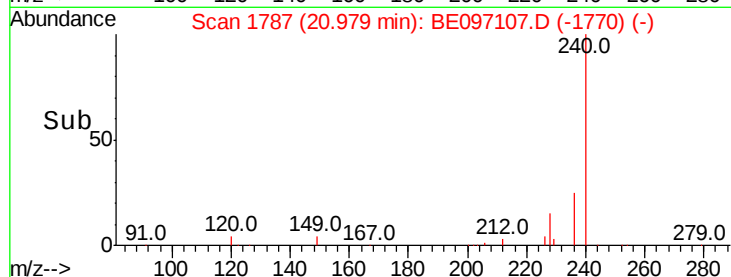
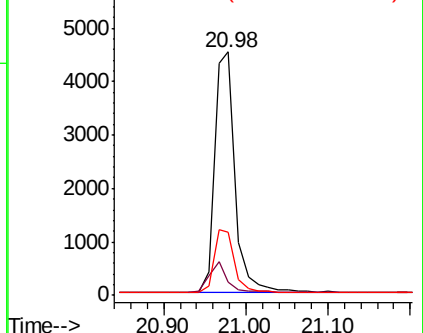
236 25.9 20.7 31.1



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



#28

Pyrene

Concen: 0.412 ng

RT: 19.20 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

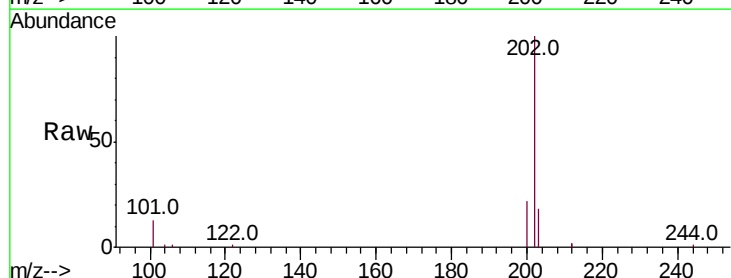
Tgt Ion:202 Resp: 8957

Ion Ratio Lower Upper

202 100

200 21.3 16.6 25.0

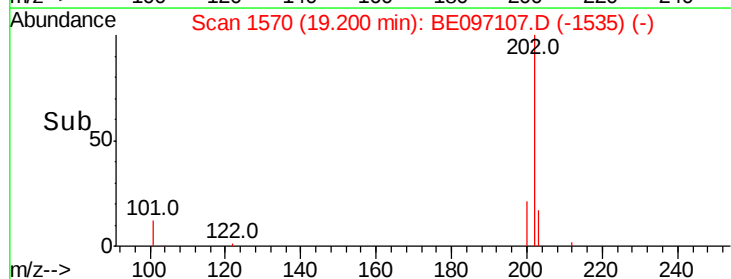
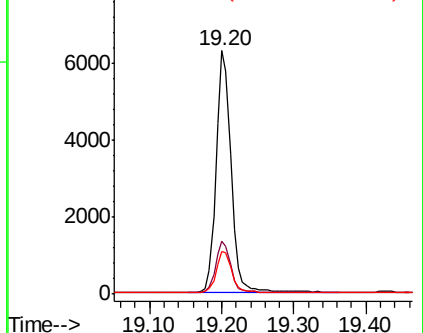
203 17.4 13.8 20.8



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





#29

Terphenyl-d14

Concen: 0.411 ng

RT: 19.43 min Scan# 1610

Delta R.T. -0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

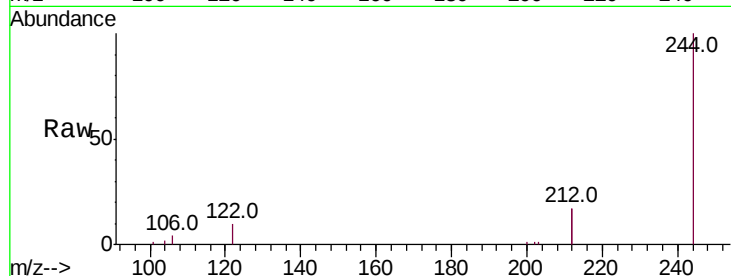
Tot Ion:244 Resp: 6264

Ion Ratio Lower Upper

244 100

212 34.3 25.4 38.0

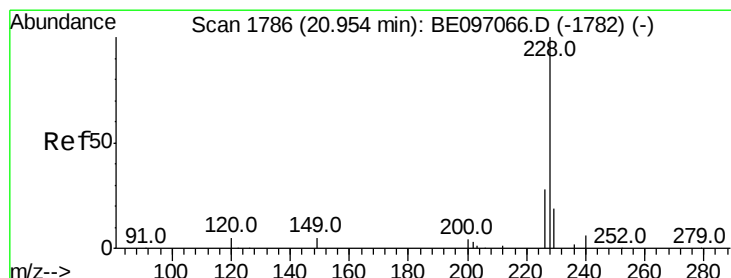
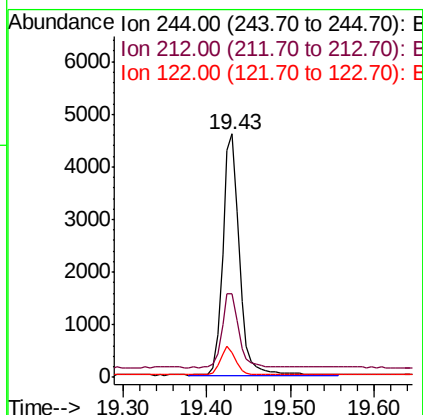
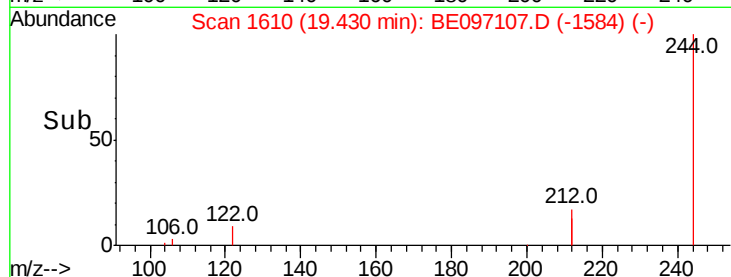
122 10.2 8.1 12.1



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



#30

Benzo(a)anthracene

Concen: 0.339 ng

RT: 20.95 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

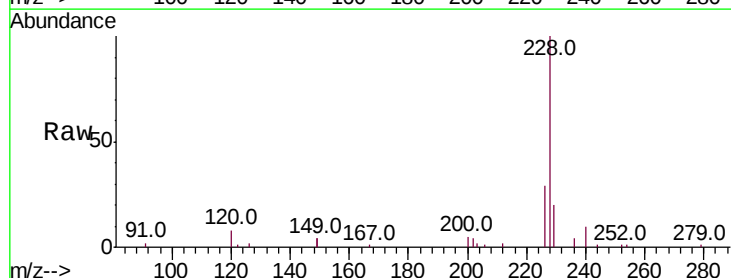
Tgt Ion:228 Resp: 6698

Ion Ratio Lower Upper

228 100

226 28.7 24.0 36.0

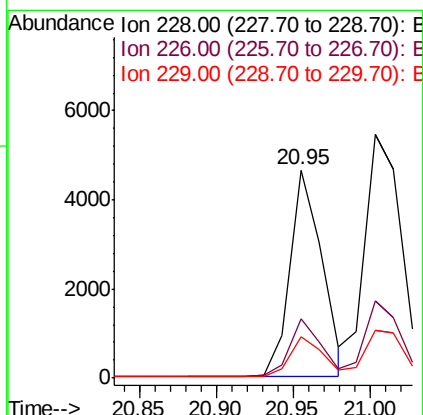
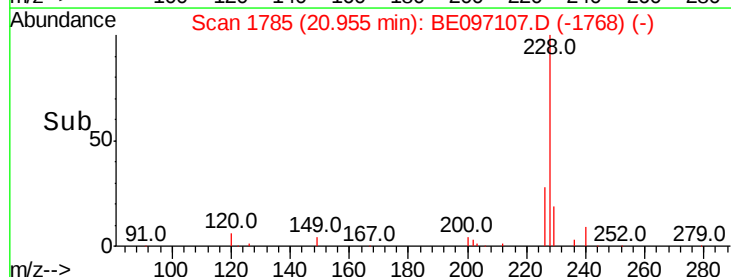
229 20.1 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.426 ng

RT: 21.00 min Scan# 1789

Delta R.T. -0.01 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

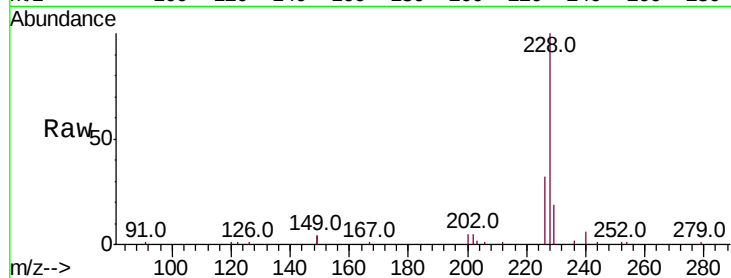
Tot Ion:228 Resp: 9012

Ion Ratio Lower Upper

228 100

226 31.8 24.0 36.0

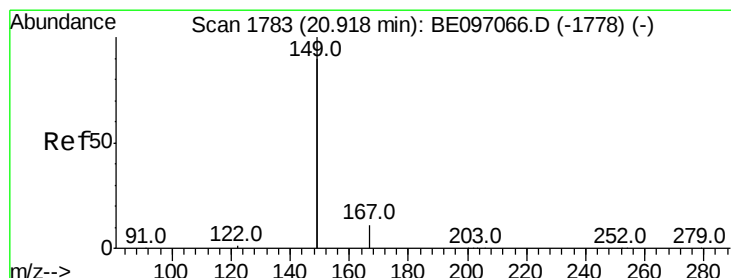
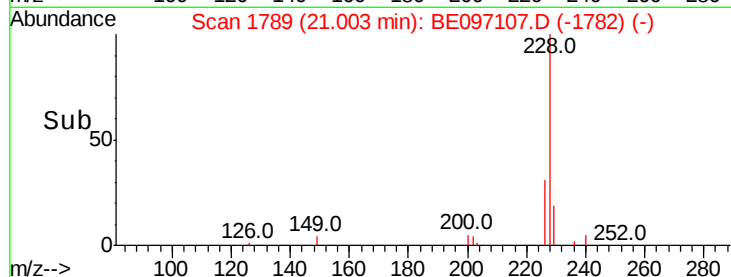
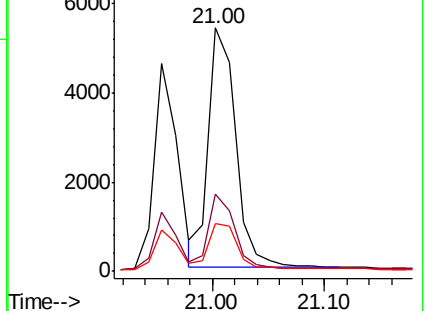
229 19.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.297 ng

RT: 20.92 min Scan# 1782

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

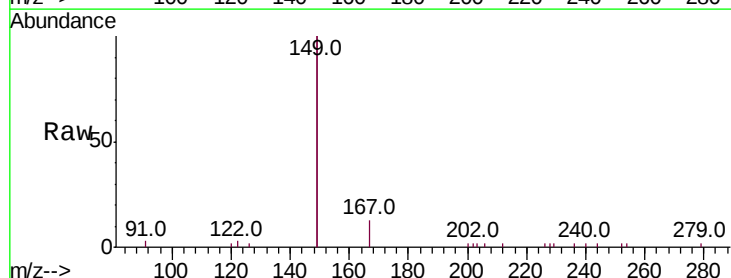
Tgt Ion:149 Resp: 6135

Ion Ratio Lower Upper

149 100

167 6.3 5.4 8.0

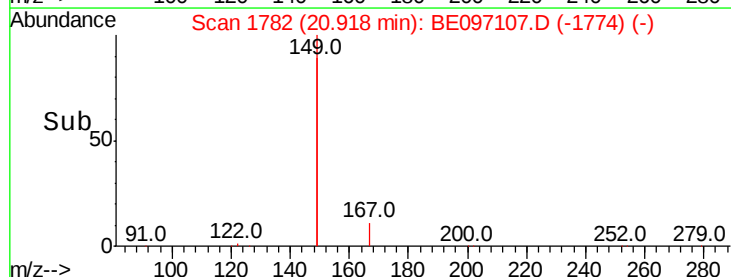
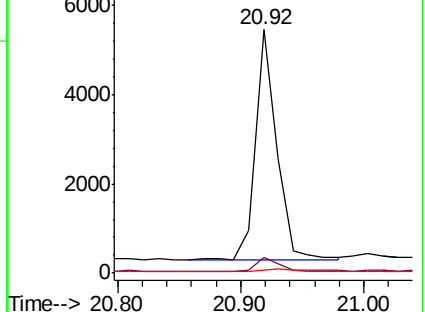
279 1.1 0.7 1.1#

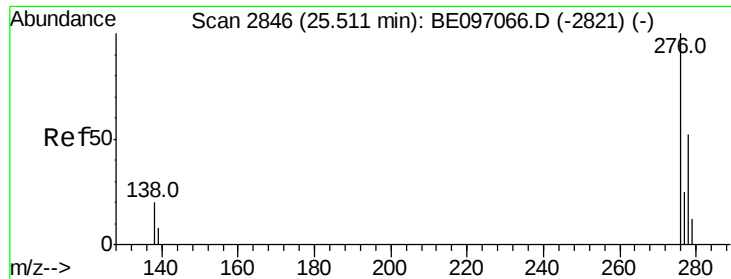


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.334 ng

RT: 25.52 min Scan# 2847

Delta R.T. 0.01 min

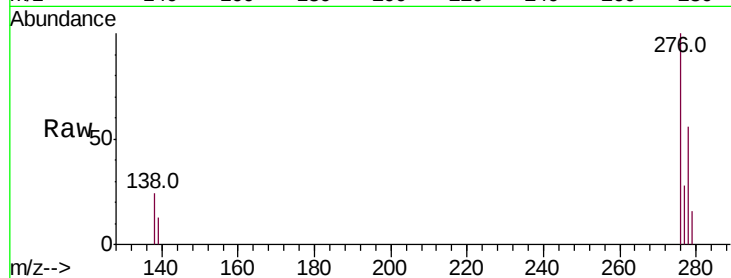
Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :



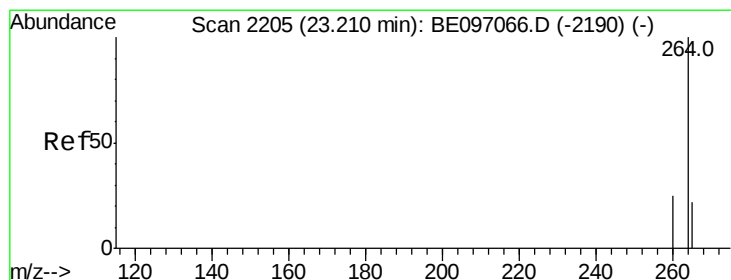
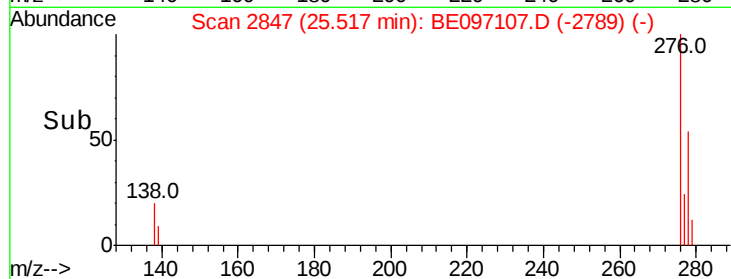
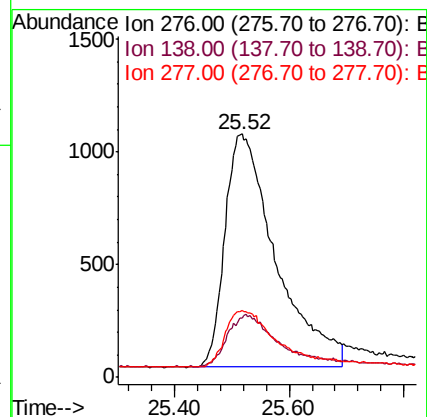
Tot Ion:276 Resp: 6398

Ion Ratio Lower Upper

276 100

138 21.3 22.5 33.7#

277 23.3 19.9 29.9



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.21 min Scan# 2205

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

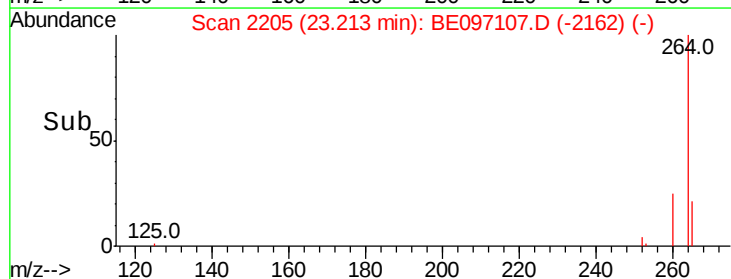
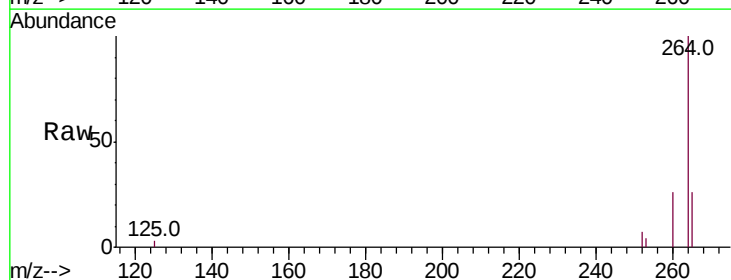
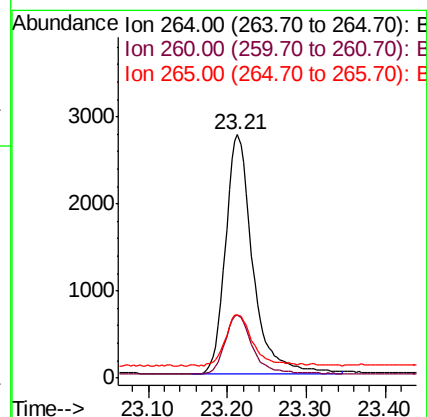
Tgt Ion:264 Resp: 6652

Ion Ratio Lower Upper

264 100

260 25.7 20.5 30.7

265 26.0 22.8 34.2

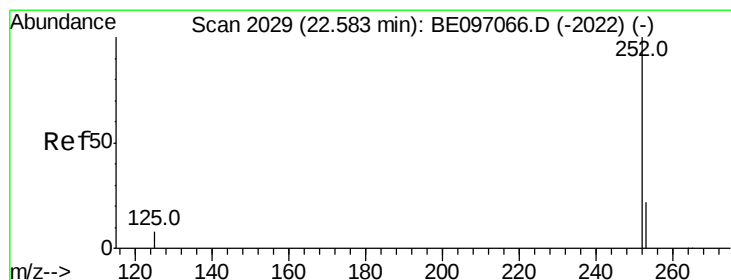
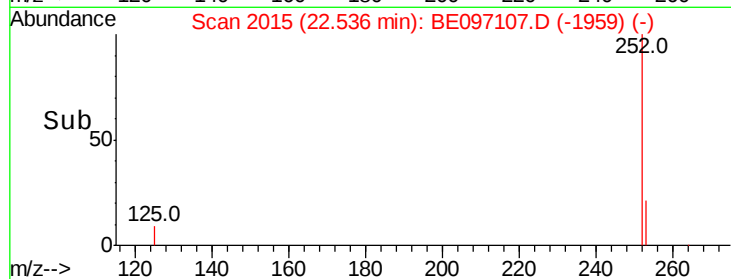
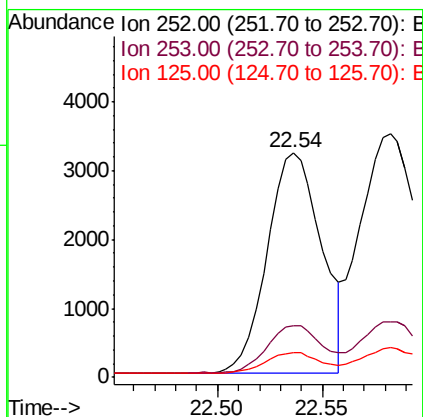
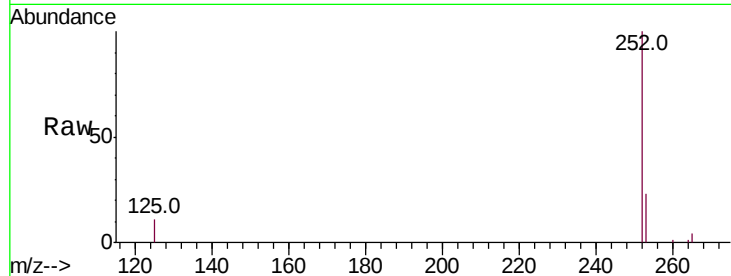




#35  
Benzo(b)fluoranthene  
Concen: 0.345 ng  
RT: 22.54 min Scan# 2015  
Delta R.T. -0.00 min  
Lab File: BE097107.D  
Acq: 26 Jul 2018 17:51

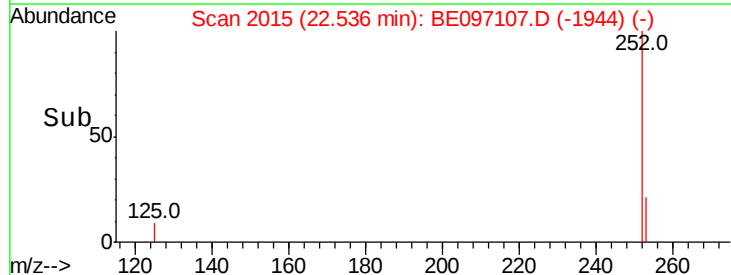
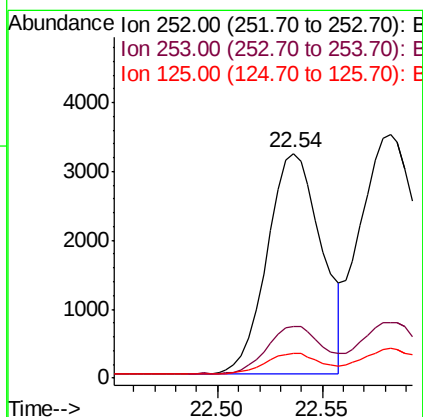
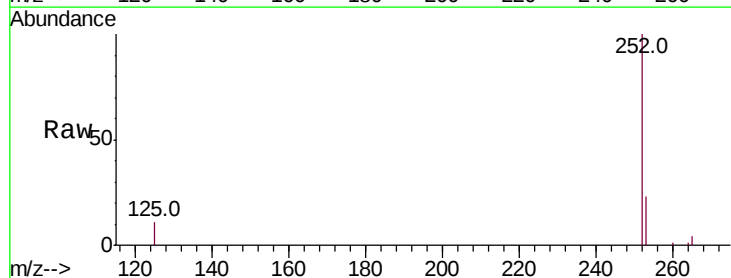
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 5817  
Ion Ratio Lower Upper  
252 100  
253 22.9 20.0 30.0  
125 10.7 16.0 24.0#



#36  
Benzo(k)fluoranthene  
Concen: 0.295 ng  
RT: 22.54 min Scan# 2015  
Delta R.T. -0.05 min  
Lab File: BE097107.D  
Acq: 26 Jul 2018 17:51

Tgt Ion:252 Resp: 5817  
Ion Ratio Lower Upper  
252 100  
253 22.9 16.0 24.0  
125 10.7 8.0 12.0





#37

Benzo(a)pyrene

Concen: 0.338 ng

RT: 23.11 min Scan# 2177

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

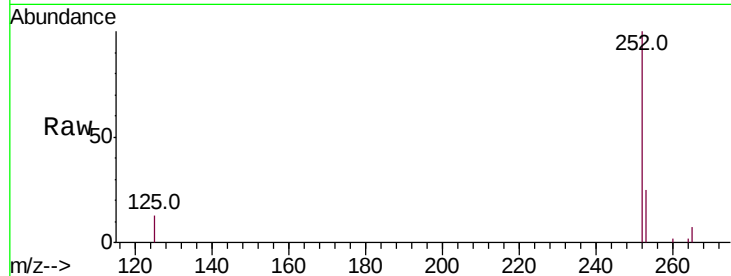
Tot Ion:252 Resp: 5372

Ion Ratio Lower Upper

252 100

253 24.6 16.0 24.0#

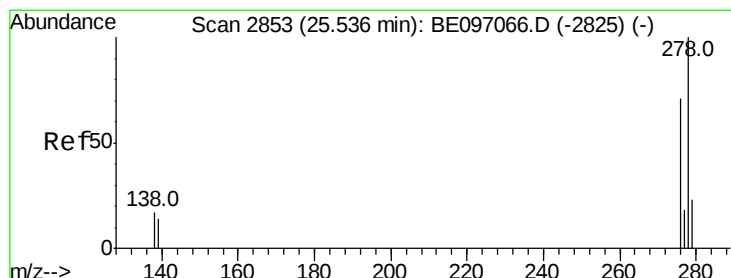
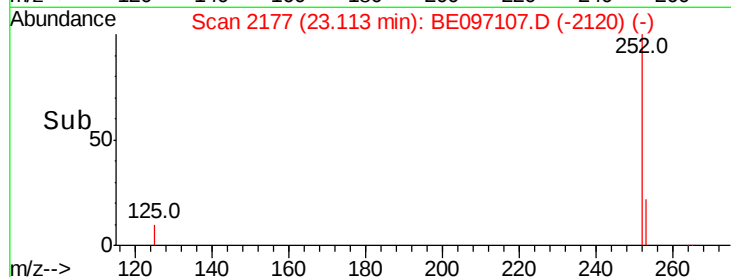
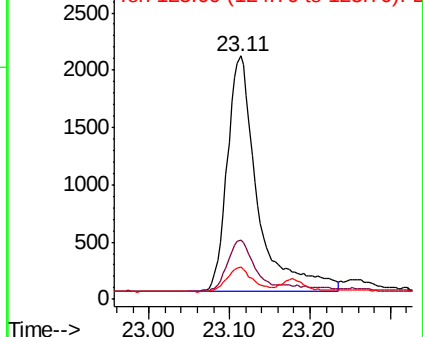
125 13.1 12.0 18.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.331 ng

RT: 25.54 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

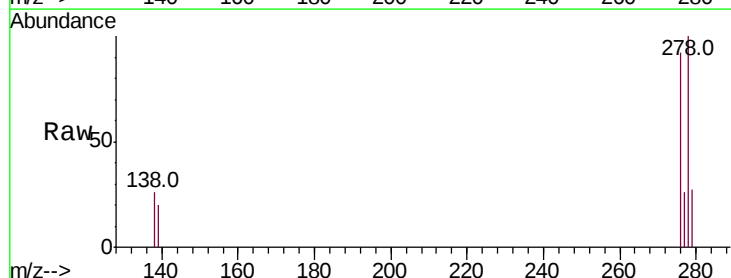
Tgt Ion:278 Resp: 5250

Ion Ratio Lower Upper

278 100

139 19.8 16.0 24.0

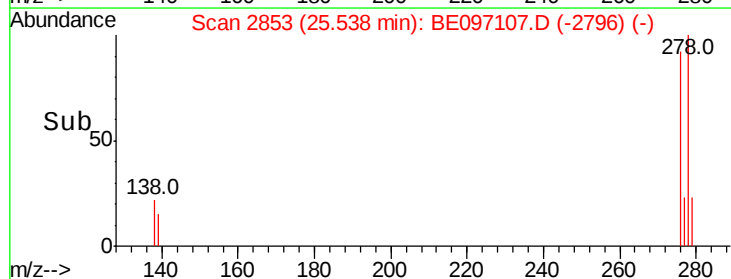
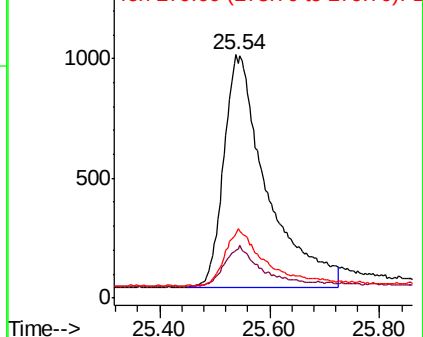
279 26.6 20.0 30.0



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





#39

Benzo(a,h,i)perylene

Concen: 0.323 ng

RT: 26.21 min Scan# 3040

Delta R.T. 0.00 min

Lab File: BE097107.D

Acq: 26 Jul 2018 17:51

Instrument :

BNA\_E

ClientSampleId :

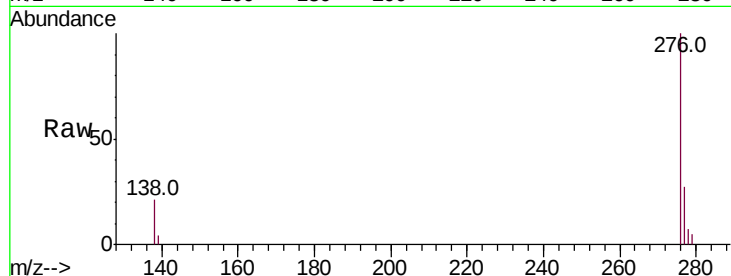
Tot Ion:276 Resp: 5428

Ion Ratio Lower Upper

276 100

277 27.2 16.0 24.0#

138 21.5 20.0 30.0



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

