

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE100518\  
 Data File : BE097784.D  
 Acq On : 6 Oct 2018 10:01  
 Operator : SJ/JU  
 Sample : PB113550BS  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB113550BS

Quant Time: Oct 08 06:39:28 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE100318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 08 06:37:06 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.88  | 152  | 5347     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.69 | 136  | 20341    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.54 | 164  | 9601     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.29 | 188  | 22026    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.47 | 240  | 23579    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 24.02 | 264  | 25855    | 0.40 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.47  | 112  | 5515     | 0.44 | ng    | 0.00     |
| 5) Phenol-d6                | 7.04  | 99   | 7553     | 0.39 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.04  | 82   | 4961     | 0.75 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.28 | 152  | 16196    | 0.50 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330  | 818      | 0.47 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.17 | 172  | 17805    | 0.42 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.33 | 212  | 100566   | 0.36 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.92 | 244  | 18226    | 0.38 | ng    | -0.01    |

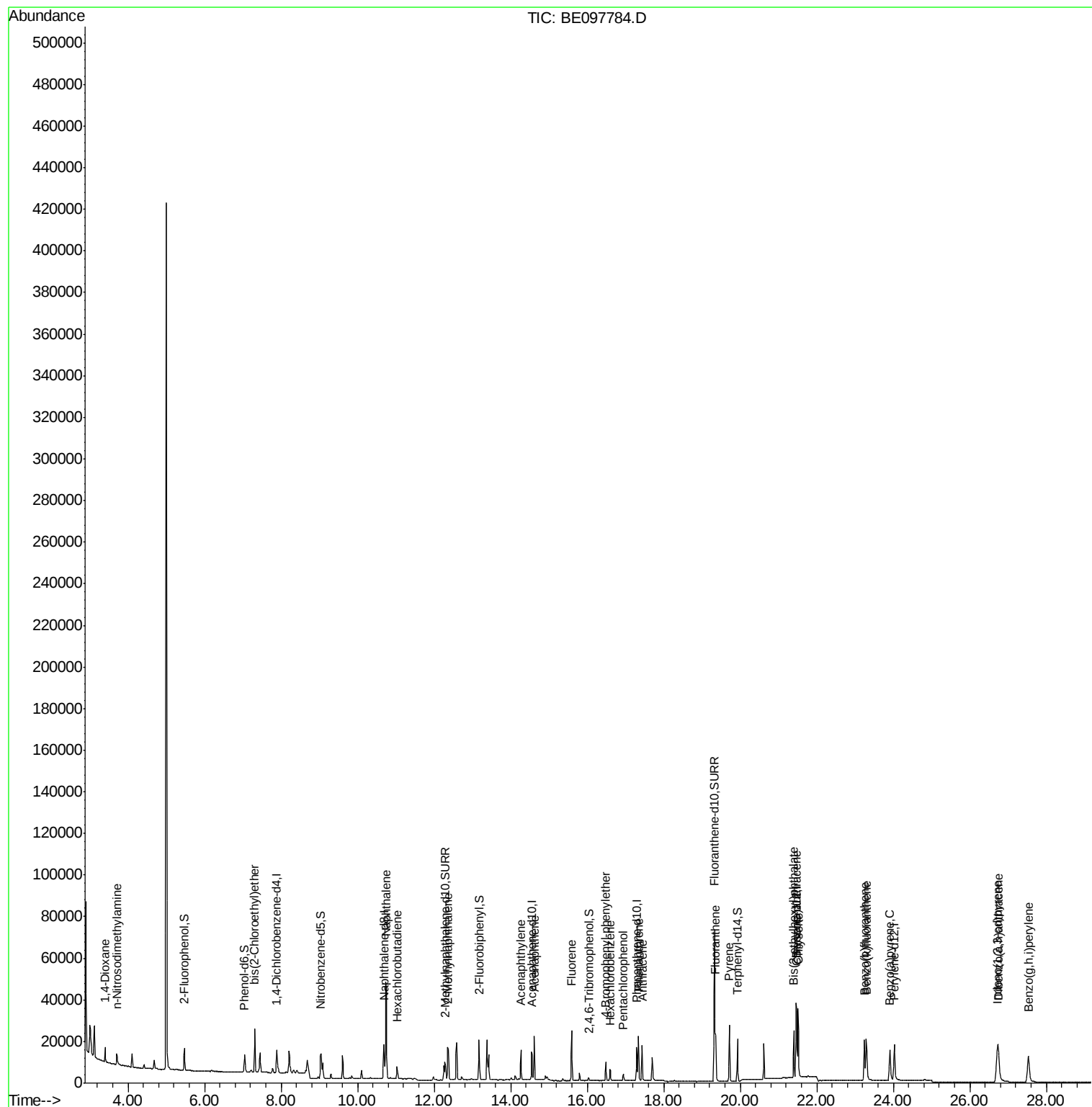
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.40  | 88   | 3947     | 0.370 | ng    | # 95   |
| 3) n-Nitrosodimethylamine      | 3.70  | 42   | 3707     | 0.382 | ng    | # 84   |
| 6) bis(2-Chloroethyl)ether     | 7.31  | 93   | 7130     | 0.355 | ng    | 98     |
| 9) Naphthalene                 | 10.73 | 128  | 83883    | 0.409 | ng    | 100    |
| 10) Hexachlorobutadiene        | 11.03 | 225  | 4091     | 0.376 | ng    | 97     |
| 12) 2-Methylnaphthalene        | 12.37 | 142  | 13255    | 0.404 | ng    | 99     |
| 16) Acenaphthylene             | 14.27 | 152  | 16617    | 0.391 | ng    | 99     |
| 17) Acenaphthene               | 14.62 | 154  | 10680    | 0.392 | ng    | 99     |
| 18) Fluorene                   | 15.59 | 166  | 13895    | 0.384 | ng    | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.49 | 248  | 4584     | 0.397 | ng    | # 93   |
| 21) Hexachlorobenzene          | 16.60 | 284  | 4765     | 0.367 | ng    | 96     |
| 22) Pentachlorophenol          | 16.94 | 266  | 1822     | 0.893 | ng    | 93     |
| 23) Phenanthrene               | 17.34 | 178  | 23530    | 0.415 | ng    | 99     |
| 24) Anthracene                 | 17.43 | 178  | 19748    | 0.403 | ng    | 99     |
| 26) Fluoranthene               | 19.35 | 202  | 26725    | 0.370 | ng    | 99     |
| 28) Pyrene                     | 19.72 | 202  | 26536    | 0.443 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.46 | 228  | 27524    | 0.434 | ng    | 99     |
| 31) Chrysene                   | 21.51 | 228  | 31116    | 0.439 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.40 | 149  | 22938    | 0.495 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 26.71 | 276  | 36289    | 0.590 | ng    | 99     |
| 35) Benzo(b)fluoranthene       | 23.25 | 252  | 28390    | 0.400 | ng    | 98     |
| 36) Benzo(k)fluoranthene       | 23.30 | 252  | 32171    | 0.409 | ng    | 99     |
| 37) Benzo(a)pyrene             | 23.91 | 252  | 26994    | 0.420 | ng    | 99     |
| 38) Dibenzo(a,h)anthracene     | 26.74 | 278  | 30769    | 0.486 | ng    | 97     |
| 39) Benzo(g,h,i)perylene       | 27.53 | 276  | 33459    | 0.505 | ng    | 99     |

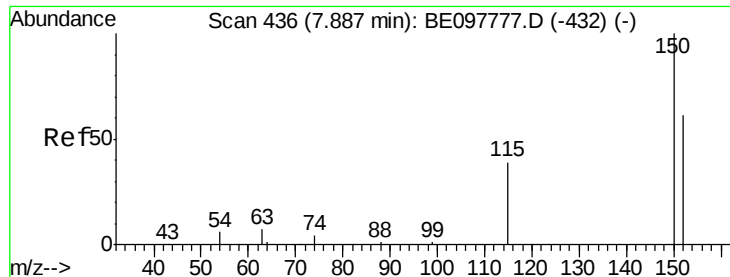
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 08 06:37:06 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.88 min Scan# 436

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

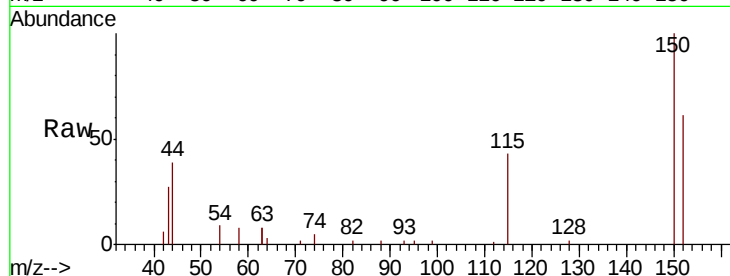
Tgt Ion:152 Resp: 5347

Ion Ratio Lower Upper

152 100

150 162.7 120.9 181.3

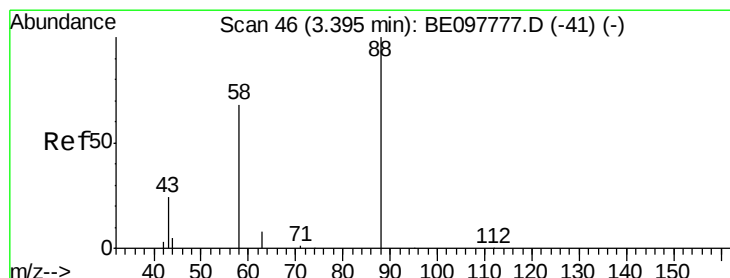
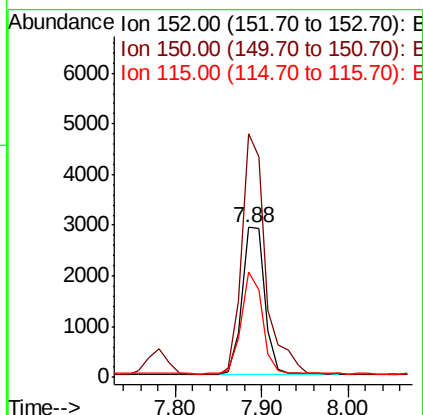
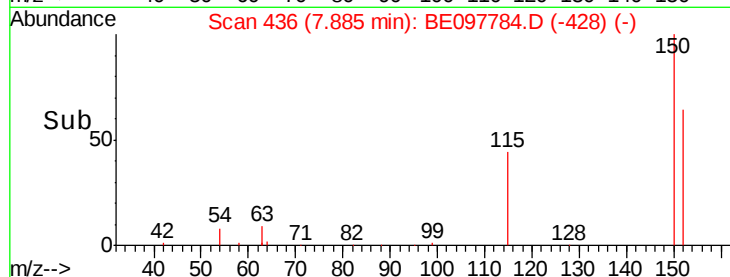
115 70.2 46.6 69.8#



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



#2

1,4-Dioxane

Concen: 0.370 ng

RT: 3.40 min Scan# 47

Delta R.T. 0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

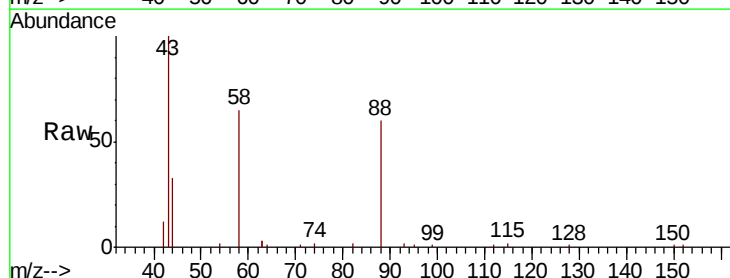
Tgt Ion: 88 Resp: 3947

Ion Ratio Lower Upper

88 100

58 88.7 70.8 106.2

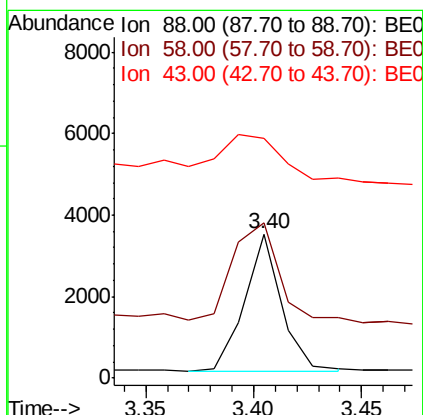
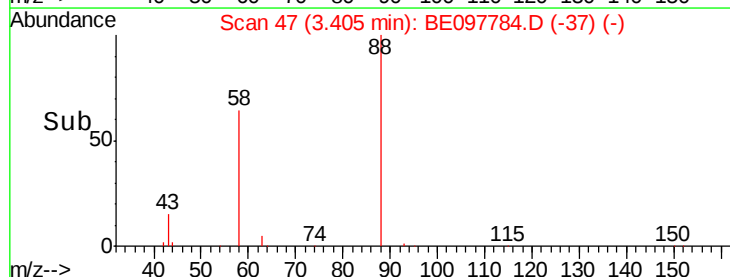
43 51.9 33.3 49.9#

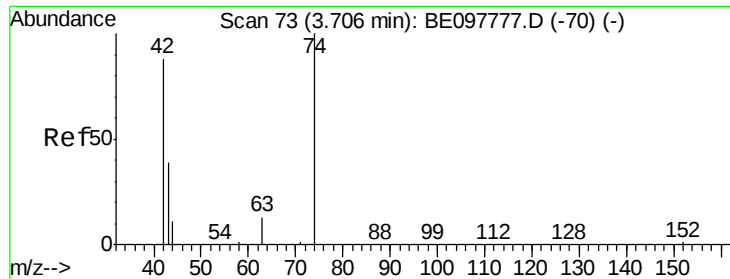


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.382 ng

RT: 3.70 min Scan# 73

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

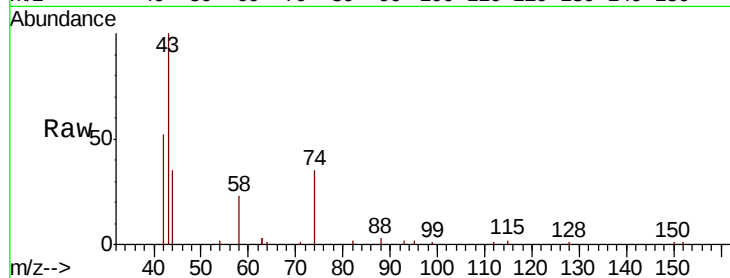
Tgt Ion: 42 Resp: 3707

Ion Ratio Lower Upper

42 100

74 102.3 70.7 106.1

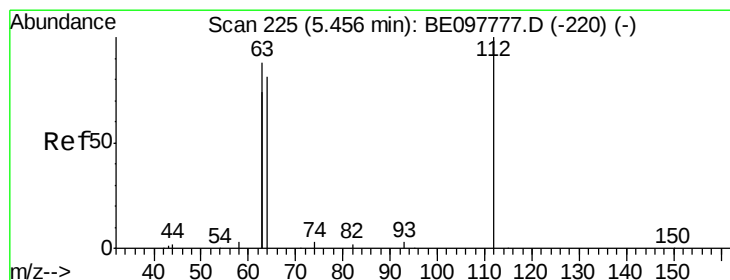
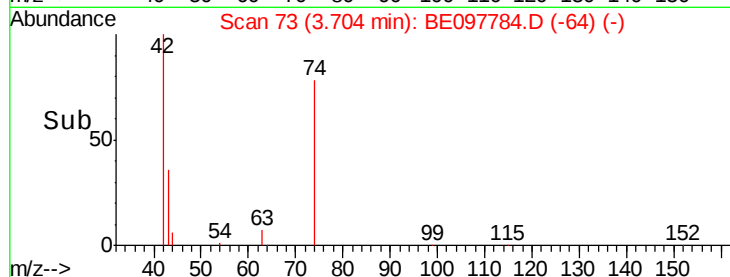
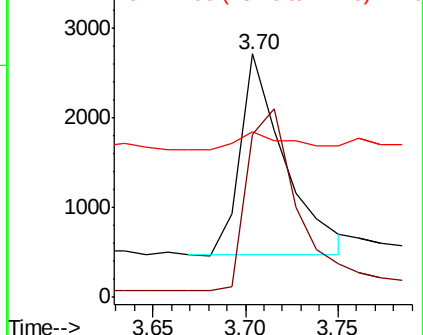
44 8.8 15.0 22.4#



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: 0.436 ng

RT: 5.47 min Scan# 226

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

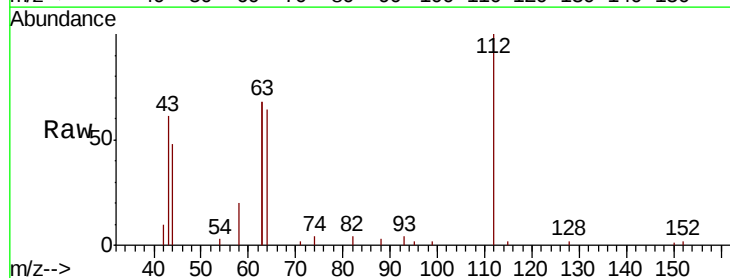
Tgt Ion: 112 Resp: 5515

Ion Ratio Lower Upper

112 100

64 69.3 56.6 84.8

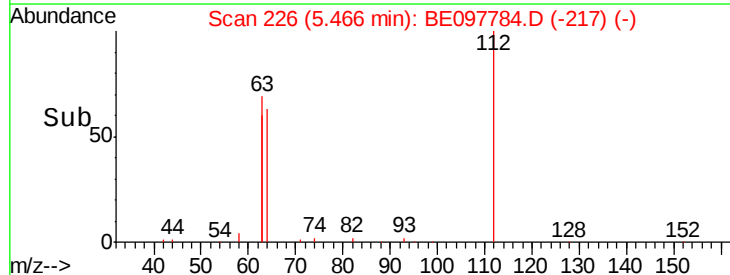
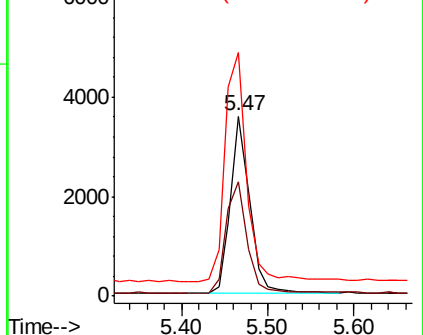
63 146.9 119.4 179.0

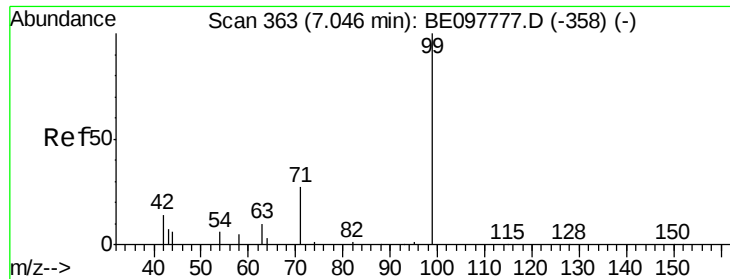


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.390 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

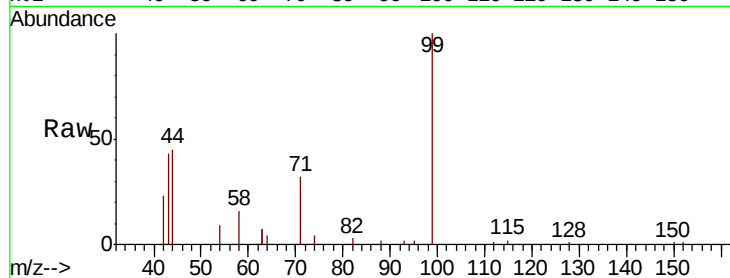
Tgt Ion: 99 Resp: 7553

Ion Ratio Lower Upper

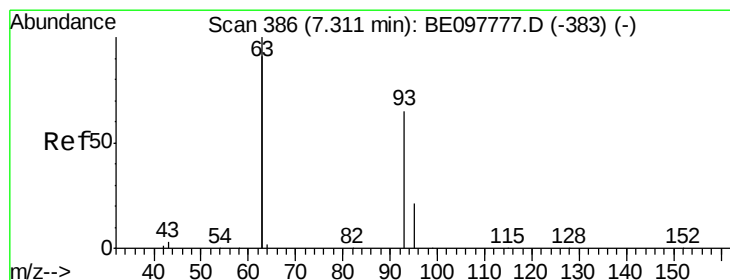
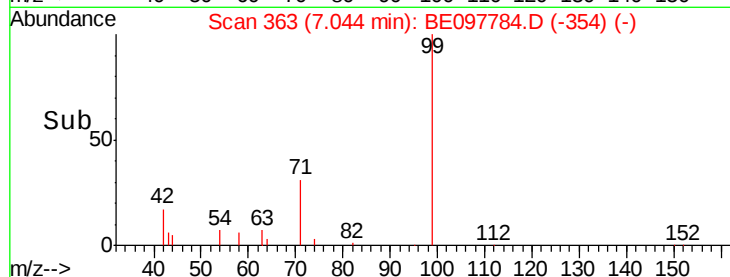
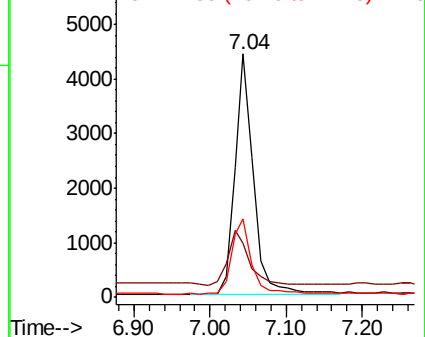
99 100

42 25.9 19.9 29.9

71 33.5 25.4 38.2



Abundance Ion 99.00 (98.70 to 99.70): BE0  
Ion 42.00 (41.70 to 42.70): BE0  
Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.355 ng

RT: 7.31 min Scan# 386

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

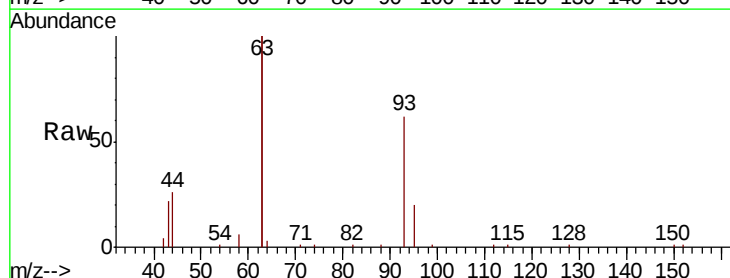
Tgt Ion: 93 Resp: 7130

Ion Ratio Lower Upper

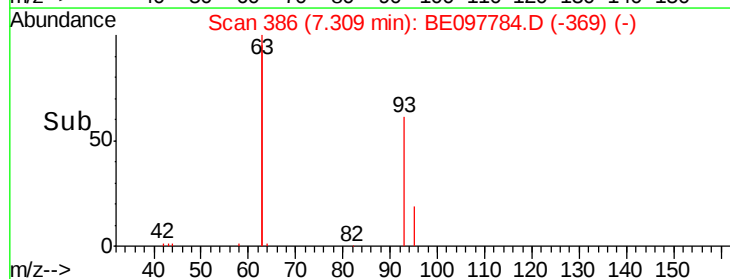
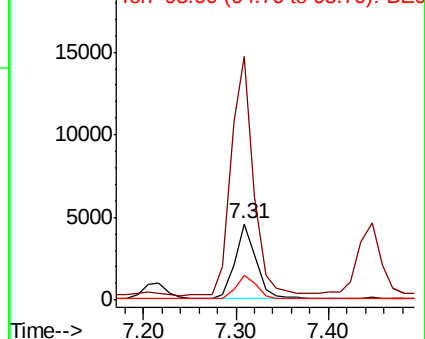
93 100

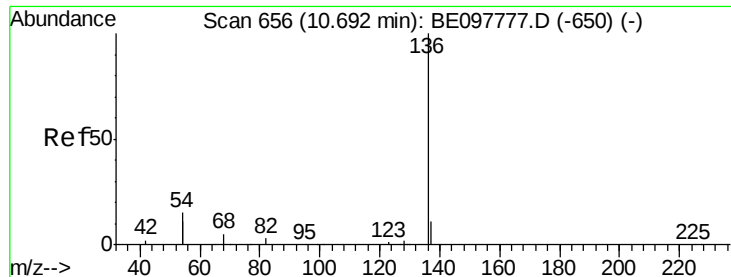
63 338.8 266.9 400.3

95 33.1 26.2 39.2



Abundance Ion 93.00 (92.70 to 93.70): BE0  
Ion 63.00 (62.70 to 63.70): BE0  
Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.69 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

Tgt Ion:136 Resp: 20341

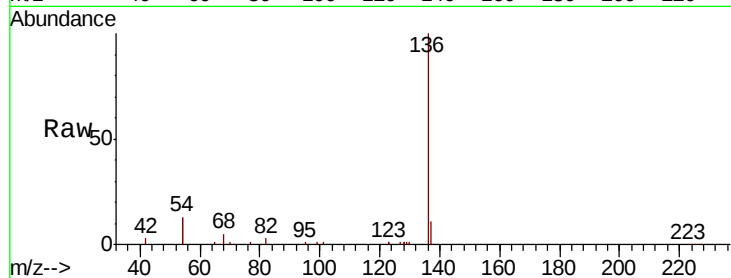
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 25.8 37.8 56.6#

68 5.1 6.4 9.6#

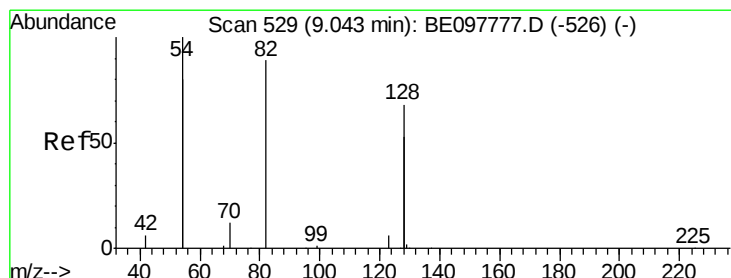
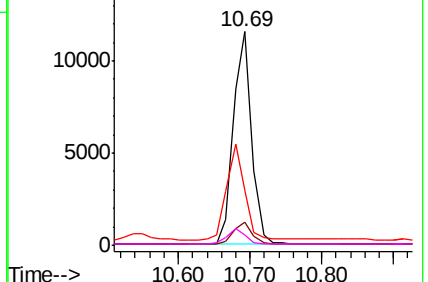
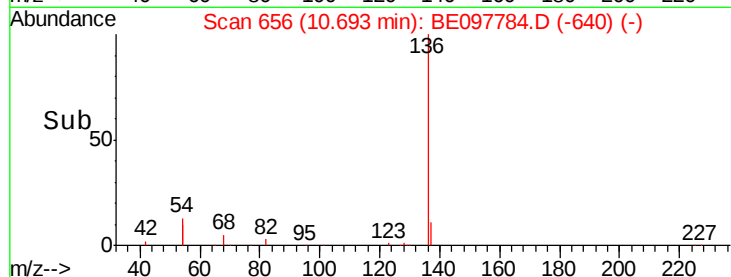


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.751 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

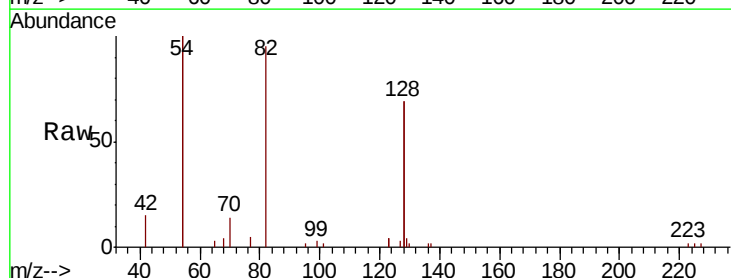
Tgt Ion: 82 Resp: 4961

Ion Ratio Lower Upper

82 100

128 145.6 97.0 145.4#

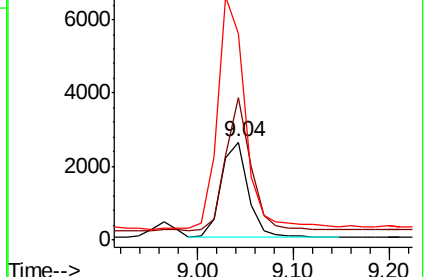
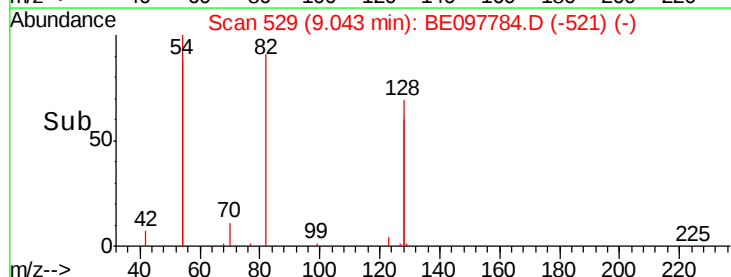
54 211.0 206.9 310.3

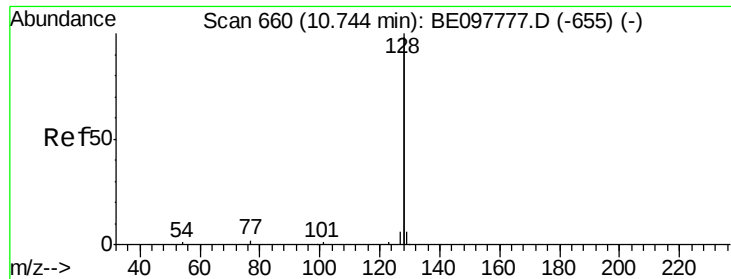


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.409 ng

RT: 10.73 min Scan# 659

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

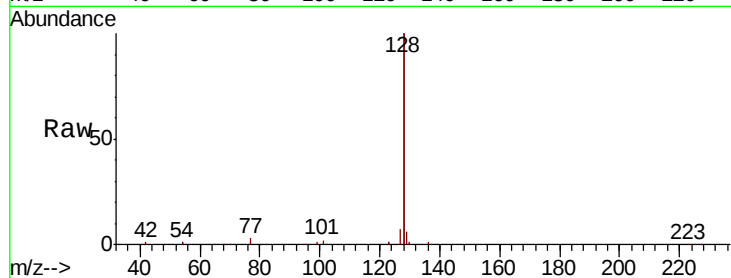
Tgt Ion:128 Resp: 83883

Ion Ratio Lower Upper

128 100

129 2.8 2.2 3.2

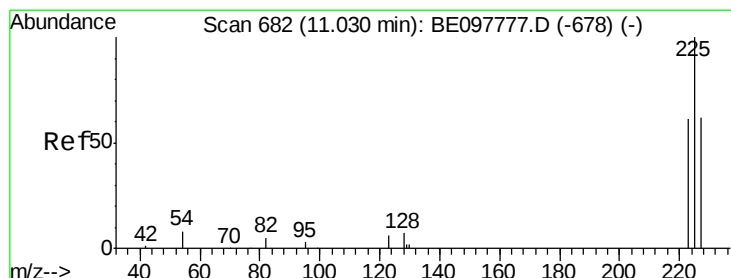
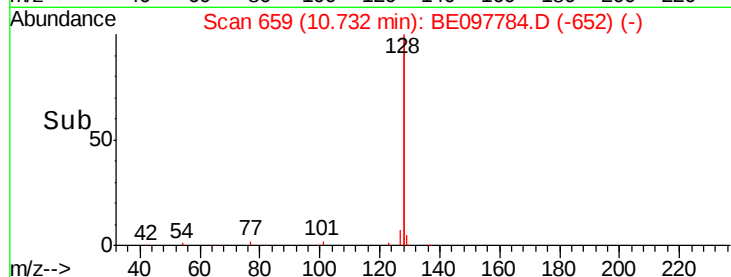
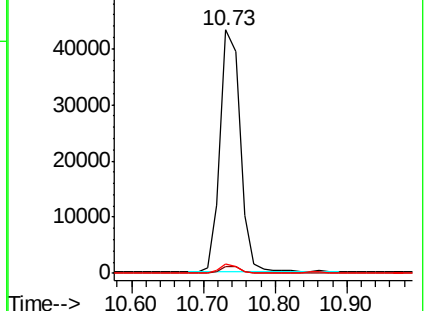
127 3.6 2.7 4.1



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: 0.376 ng

RT: 11.03 min Scan# 682

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

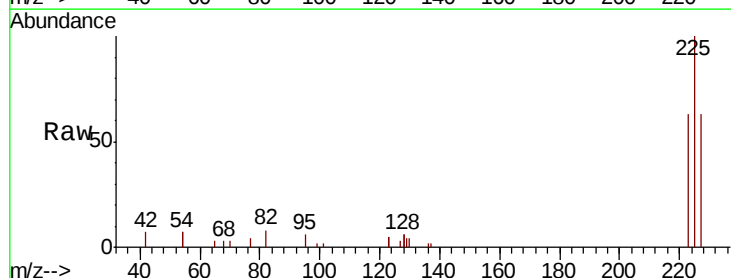
Tgt Ion:225 Resp: 4091

Ion Ratio Lower Upper

225 100

223 61.8 52.2 78.4

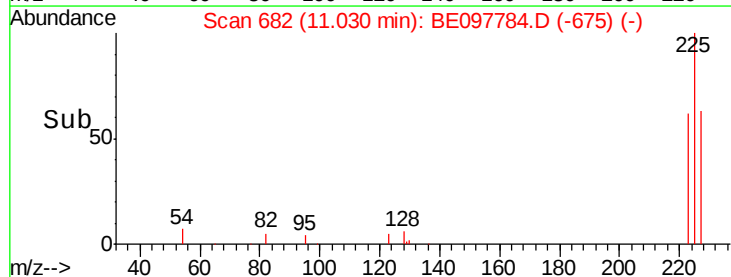
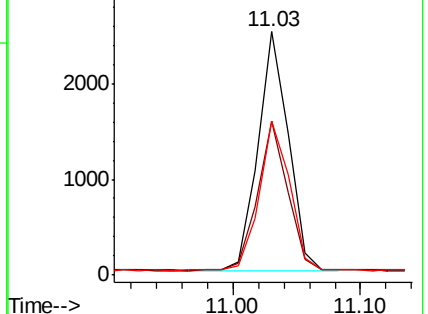
227 62.6 51.2 76.8

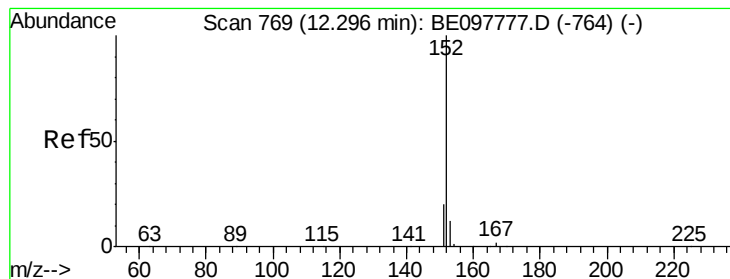


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.500 ng

RT: 12.28 min Scan# 768

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

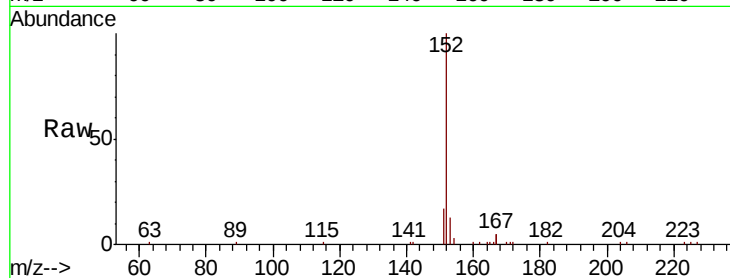
PB113550BS

Tgt Ion:152 Resp: 16196

Ion Ratio Lower Upper

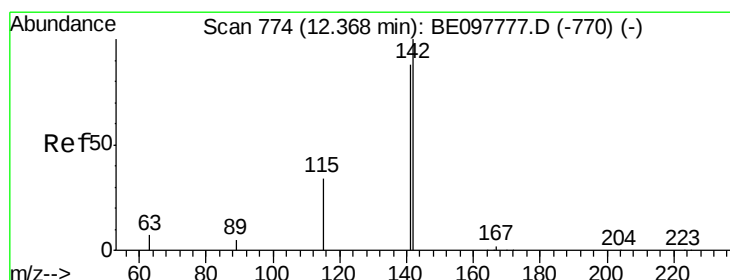
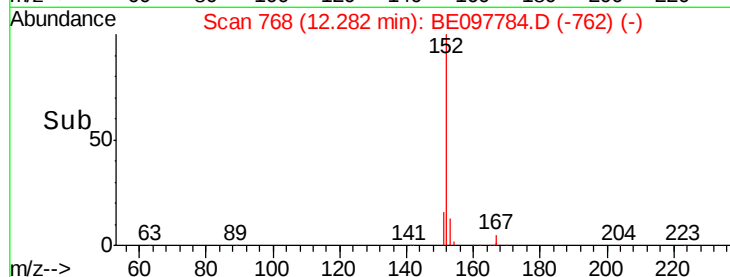
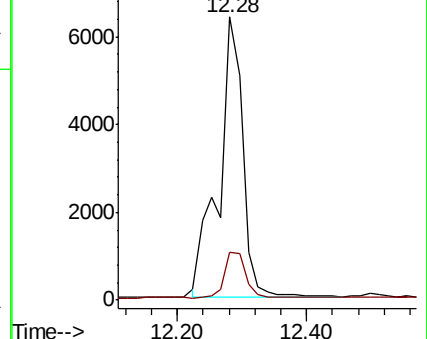
152 100

151 14.5 15.4 23.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.404 ng

RT: 12.37 min Scan# 774

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

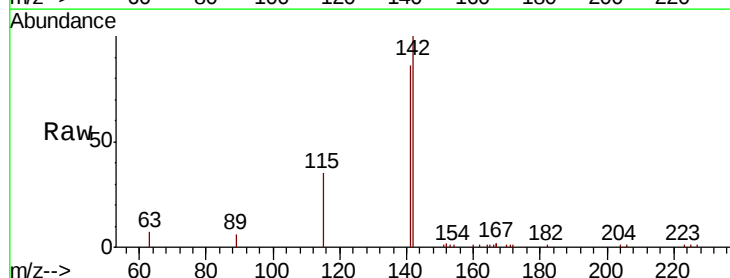
Tgt Ion:142 Resp: 13255

Ion Ratio Lower Upper

142 100

141 86.0 69.4 104.2

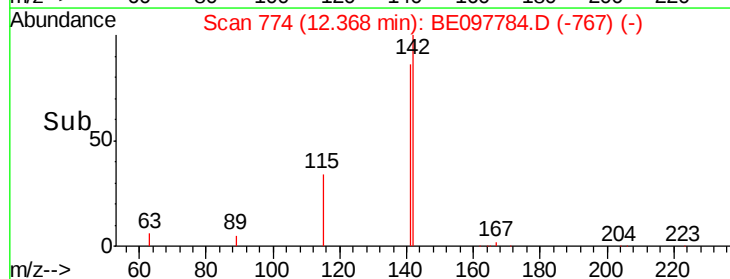
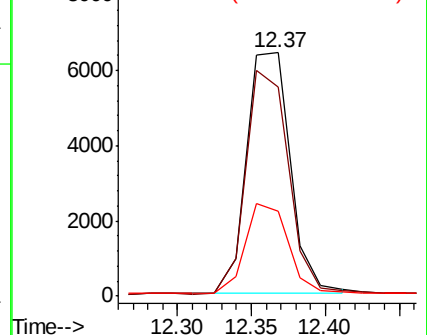
115 34.6 28.0 42.0

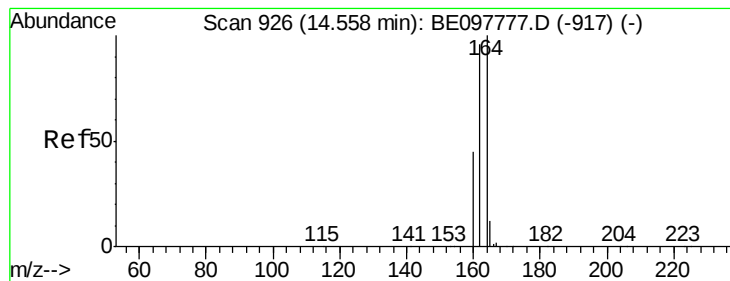


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

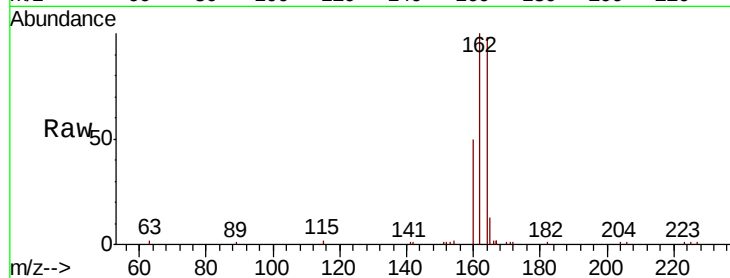
Tgt Ion:164 Resp: 9601

Ion Ratio Lower Upper

164 100

162 101.6 78.6 117.8

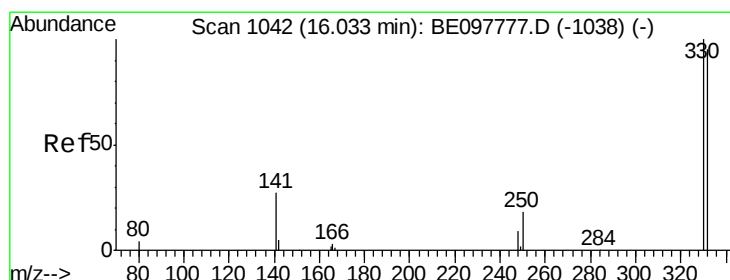
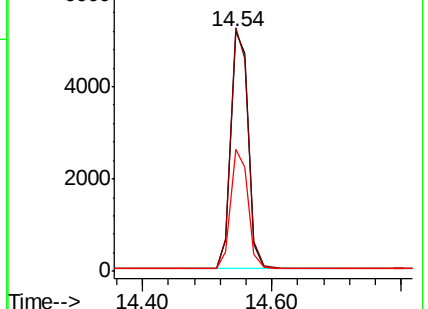
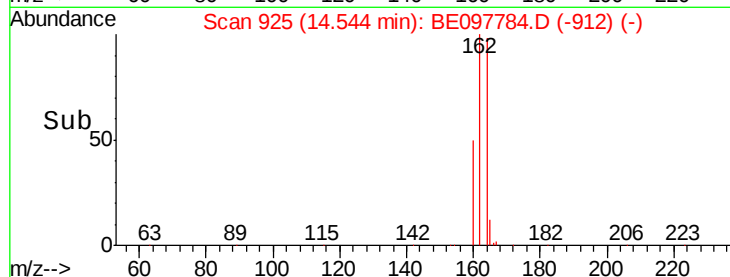
160 51.1 37.8 56.6



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: 0.470 ng

RT: 16.03 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

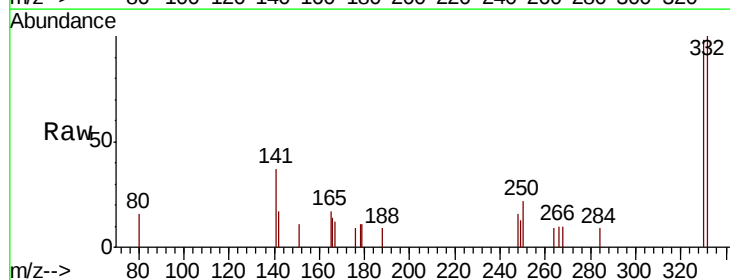
Tgt Ion:330 Resp: 818

Ion Ratio Lower Upper

330 100

332 101.8 83.5 125.3

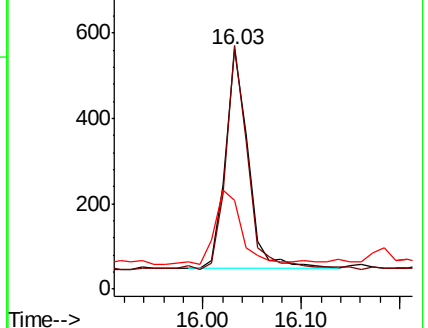
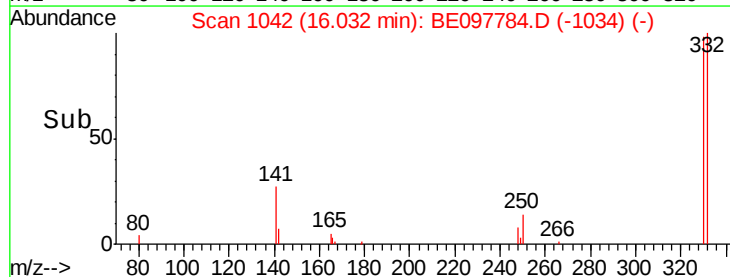
141 40.0 34.9 52.3

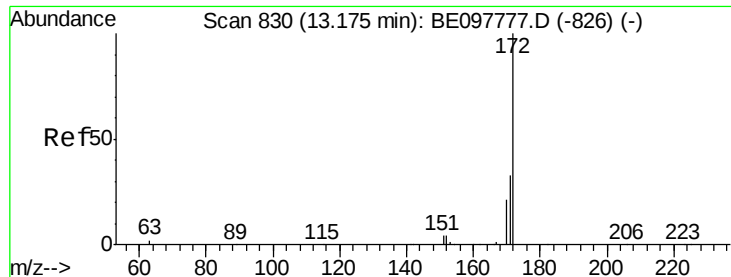


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

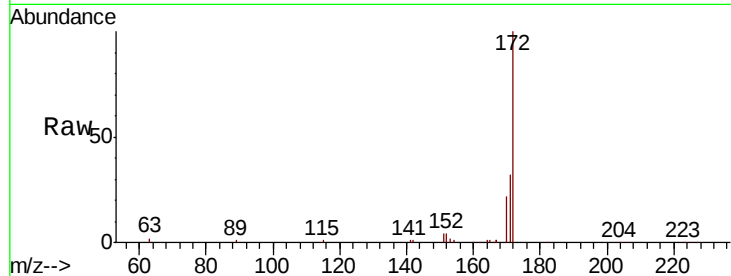




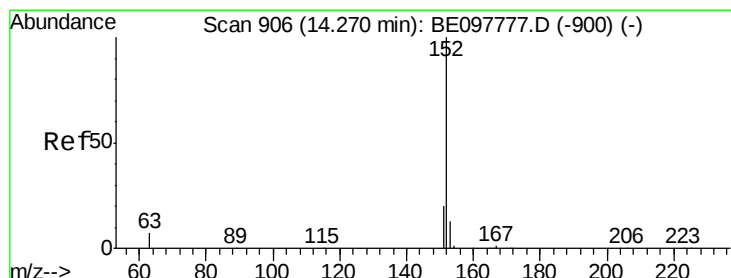
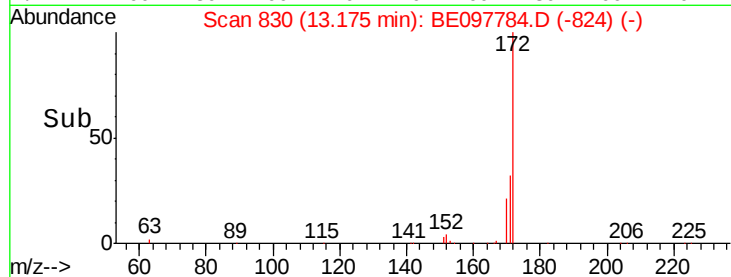
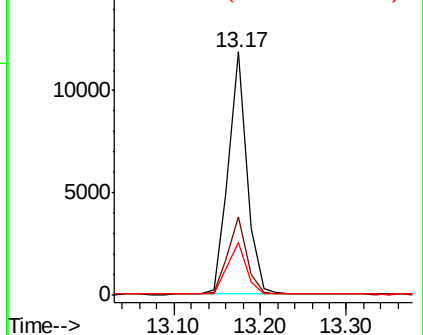
#15  
2-Fluorobiphenyl  
Concen: 0.421 ng  
RT: 13.17 min Scan# 830  
Delta R.T. -0.01 min  
Lab File: BE097784.D  
Acq: 6 Oct 2018 10:01

Instrument :  
BNA\_E  
ClientSampleId :  
PB113550BS

Tgt Ion:172 Resp: 17805  
Ion Ratio Lower Upper  
172 100  
171 32.4 25.2 37.8  
170 21.8 16.2 24.2

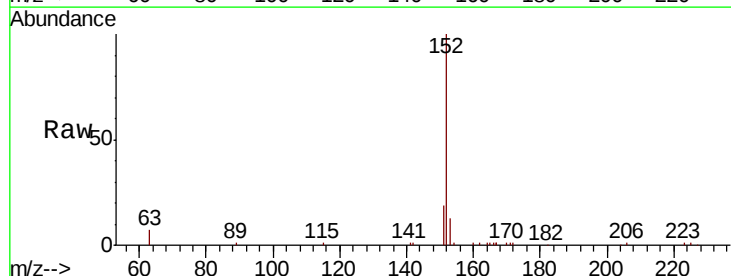


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

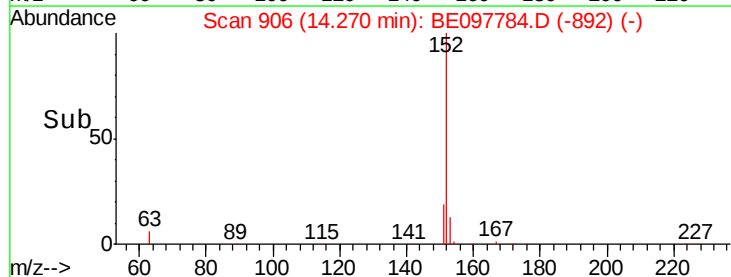
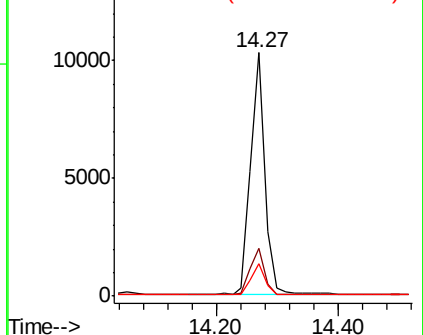


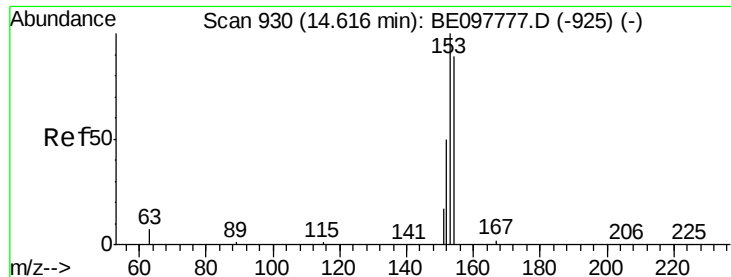
#16  
Acenaphthylene  
Concen: 0.391 ng  
RT: 14.27 min Scan# 906  
Delta R.T. -0.00 min  
Lab File: BE097784.D  
Acq: 6 Oct 2018 10:01

Tgt Ion:152 Resp: 16617  
Ion Ratio Lower Upper  
152 100  
151 19.2 15.3 22.9  
153 12.6 10.8 16.2



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: 0.392 ng

RT: 14.62 min Scan# 930

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

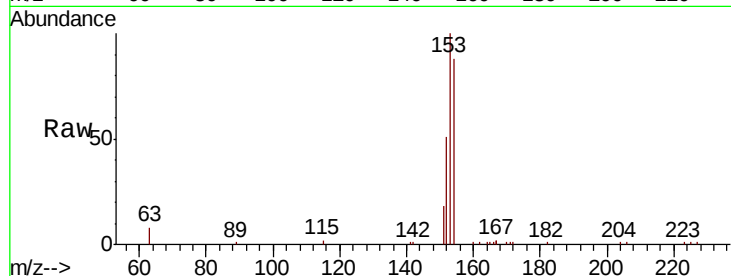
Tgt Ion:154 Resp: 10680

Ion Ratio Lower Upper

154 100

153 115.9 93.3 139.9

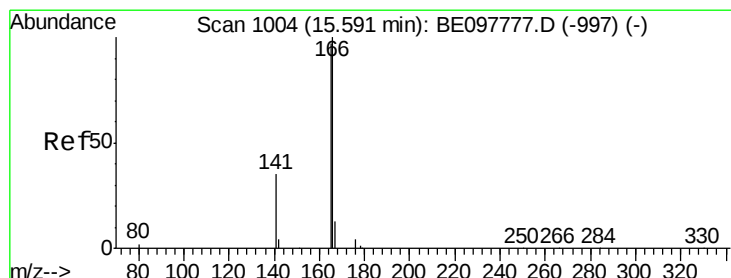
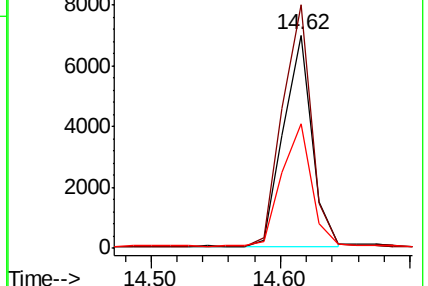
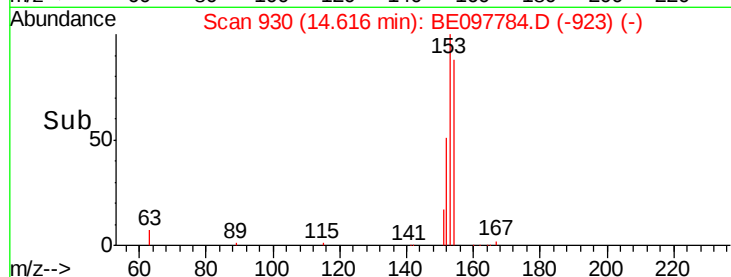
152 60.0 48.9 73.3



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: 0.384 ng

RT: 15.59 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

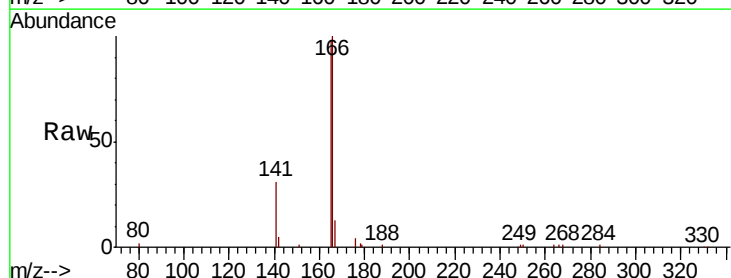
Tgt Ion:166 Resp: 13895

Ion Ratio Lower Upper

166 100

165 99.2 79.0 118.4

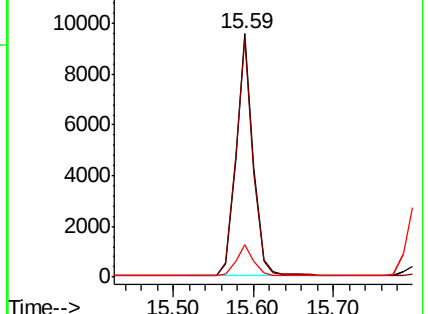
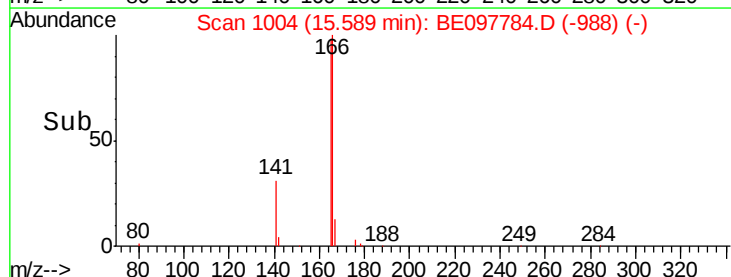
167 13.3 11.1 16.7

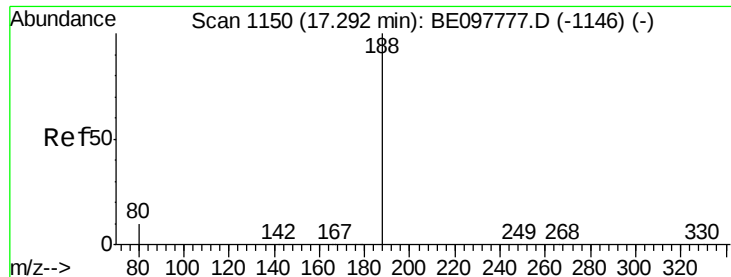


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.29 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

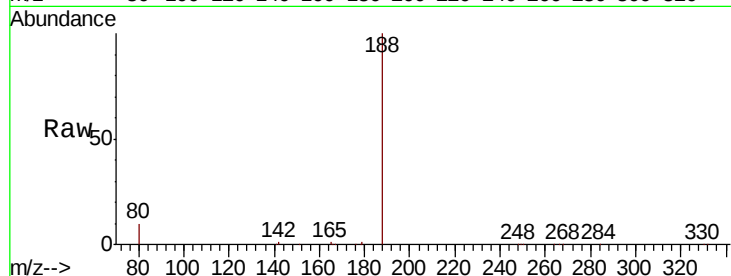
Tgt Ion:188 Resp: 22026

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

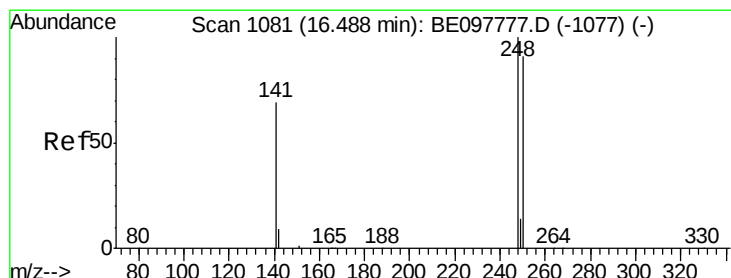
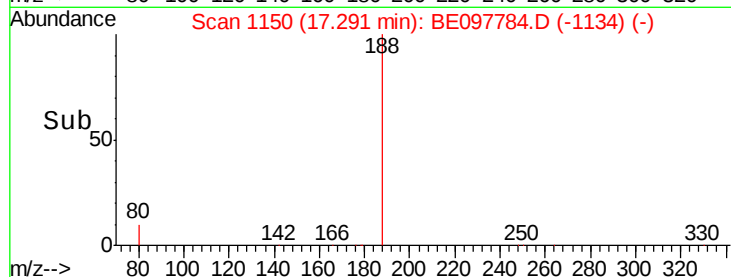
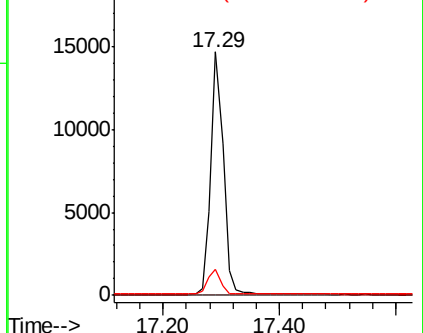
80 10.5 6.6 9.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.397 ng

RT: 16.49 min Scan# 1081

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

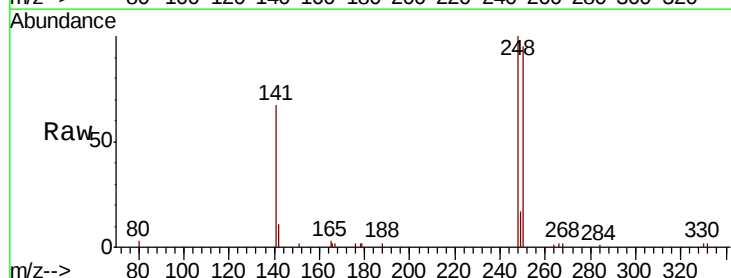
Tgt Ion:248 Resp: 4584

Ion Ratio Lower Upper

248 100

250 95.2 76.1 114.1

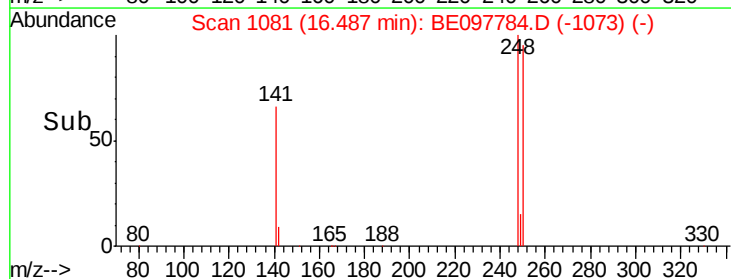
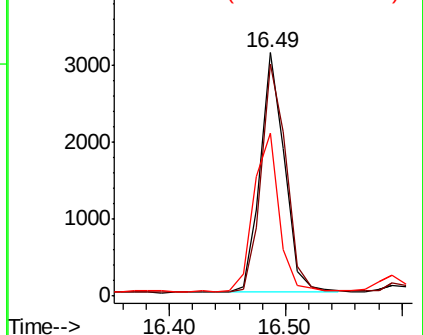
141 67.1 42.2 63.4#

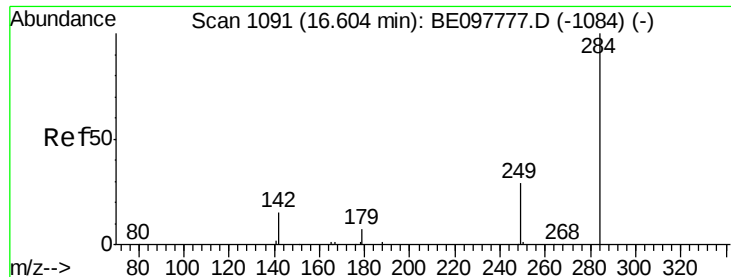


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.367 ng

RT: 16.60 min Scan# 1091

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

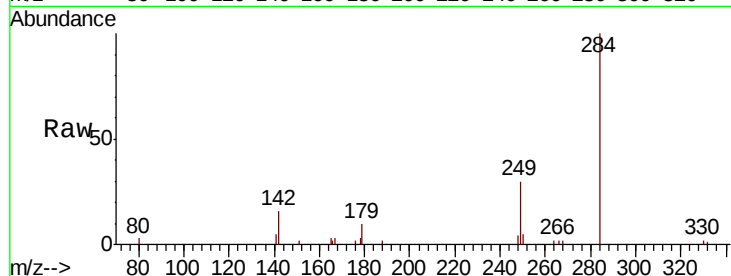
Tgt Ion:284 Resp: 4765

Ion Ratio Lower Upper

284 100

142 34.8 24.9 37.3

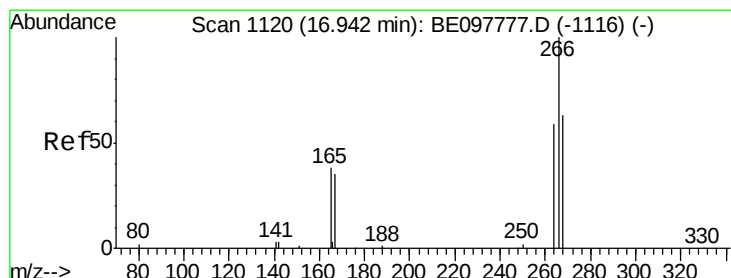
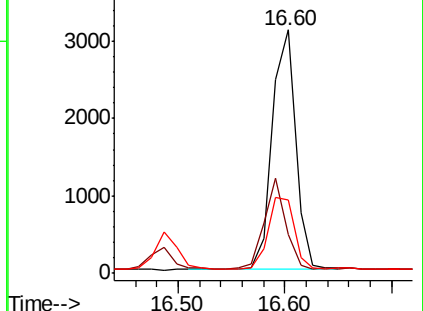
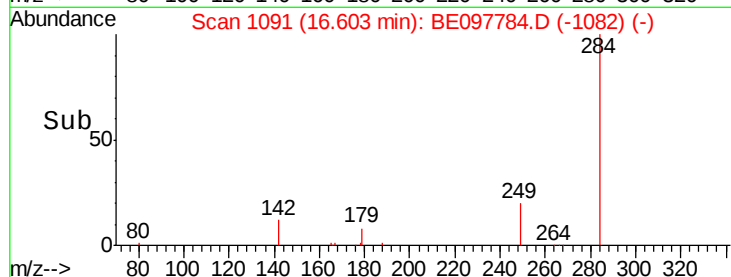
249 32.8 25.8 38.8



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: 0.893 ng

RT: 16.94 min Scan# 1120

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

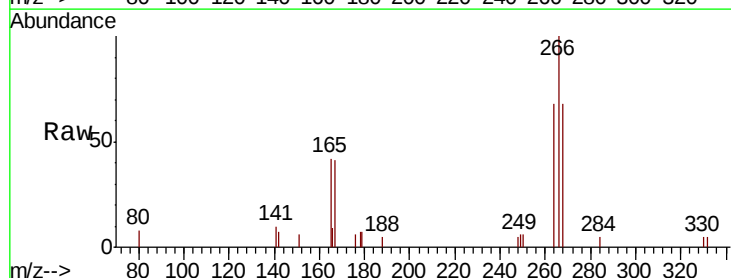
Tgt Ion:266 Resp: 1822

Ion Ratio Lower Upper

266 100

264 67.5 46.8 70.2

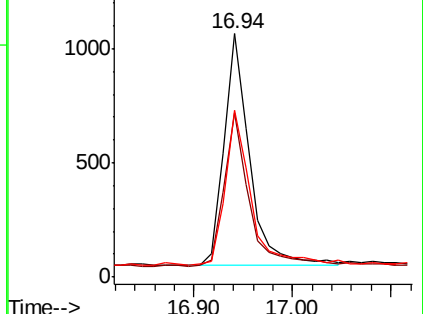
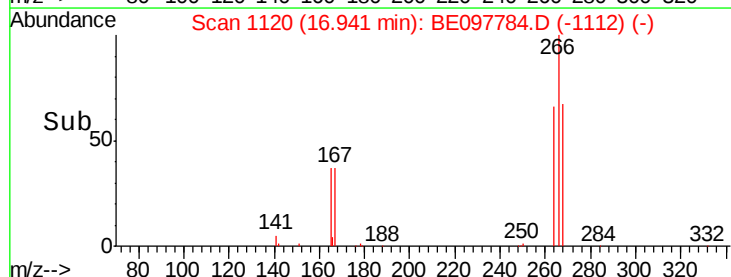
268 68.3 53.0 79.6

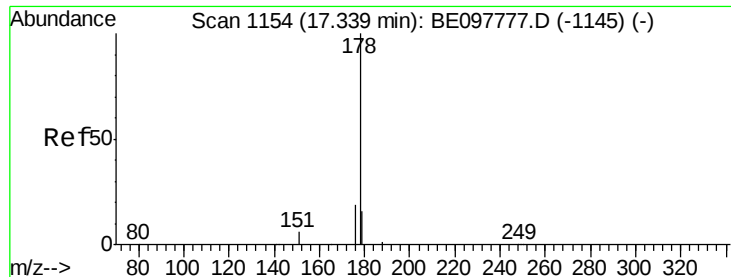


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.415 ng

RT: 17.34 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

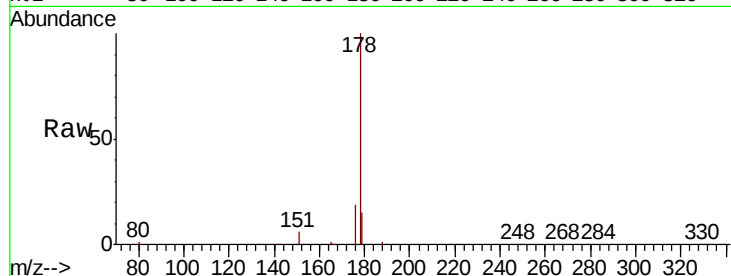
Tgt Ion:178 Resp: 23530

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

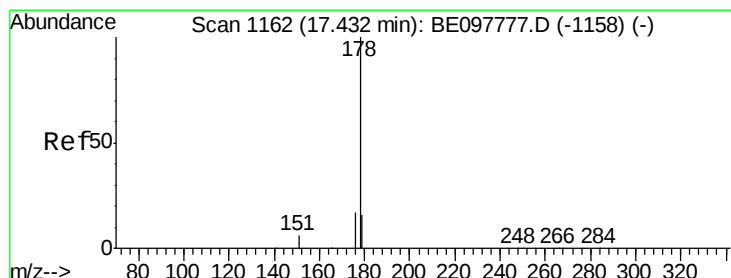
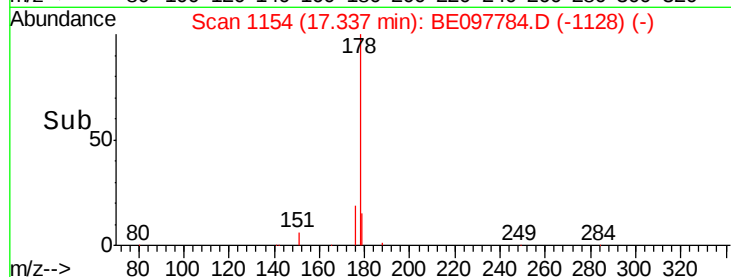
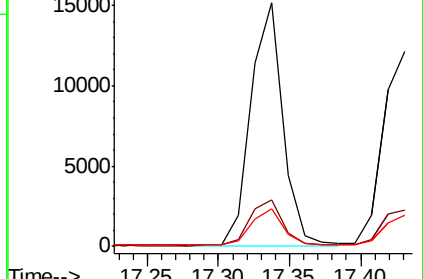
179 14.8 12.2 18.4



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: 0.403 ng

RT: 17.43 min Scan# 1162

Delta R.T. -0.00 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

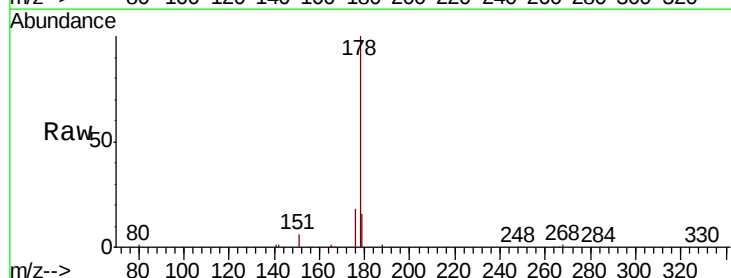
Tgt Ion:178 Resp: 19748

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

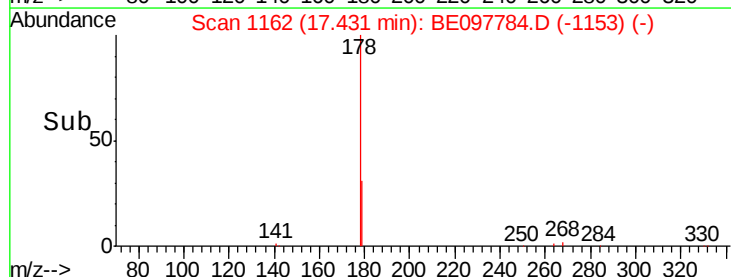
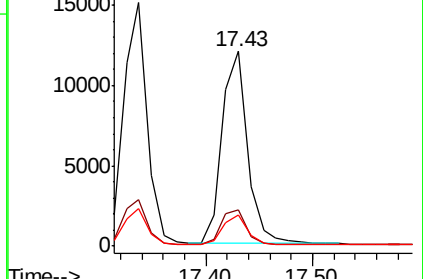
179 14.5 12.2 18.2

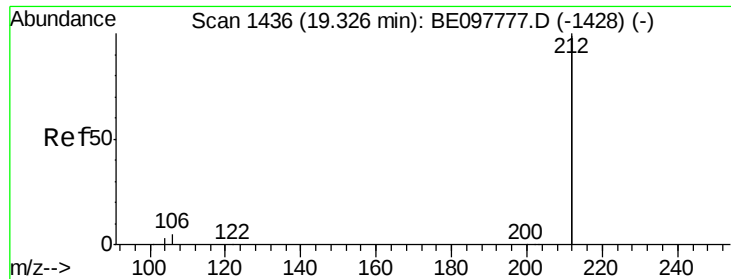


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

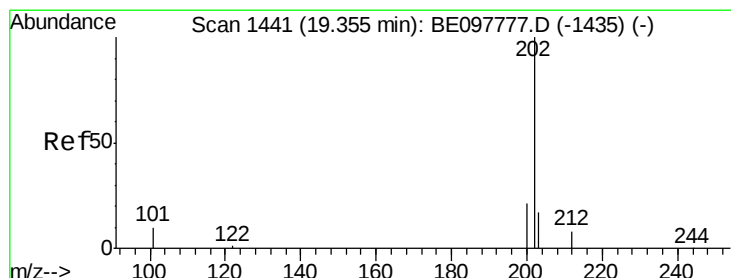
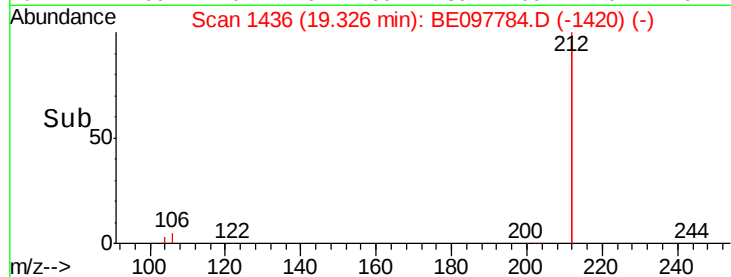
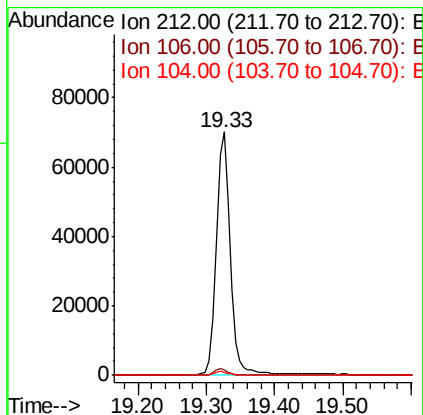
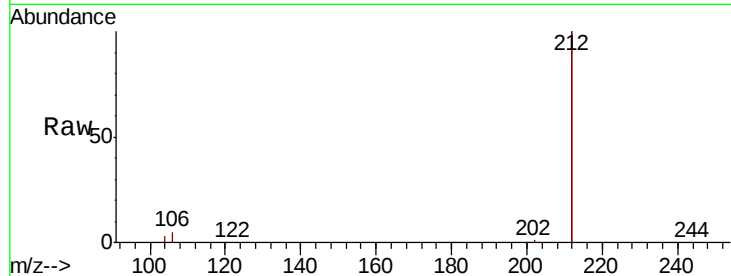




#25  
 Fluoranthene-d10  
 Concen: 0.361 ng  
 RT: 19.33 min Scan# 1436  
 Delta R.T. -0.01 min  
 Lab File: BE097784.D  
 Acq: 6 Oct 2018 10:01

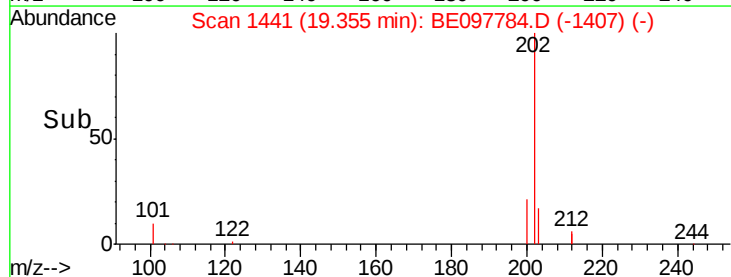
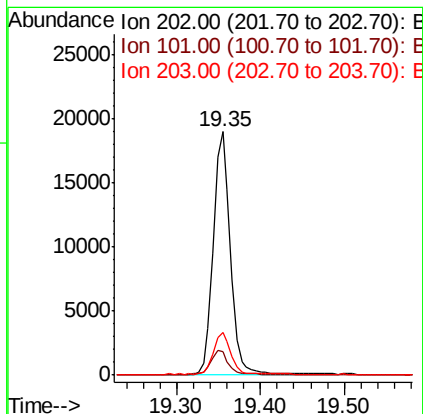
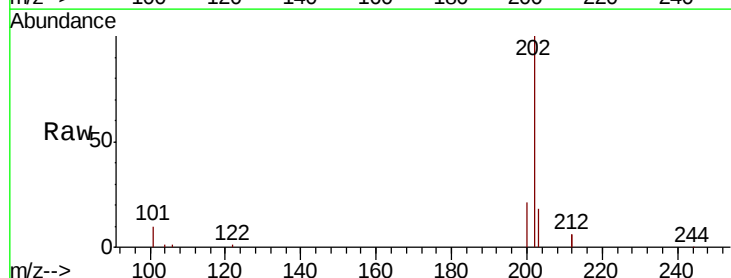
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB113550BS

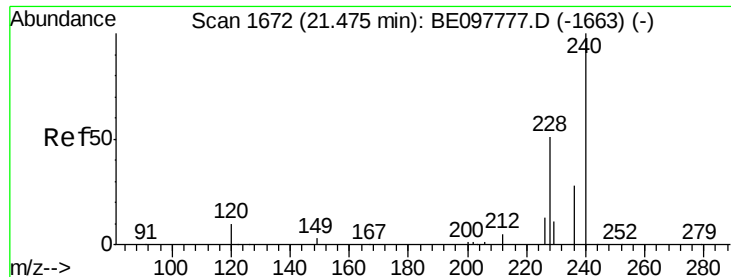
Tgt Ion: 212 Resp: 100566  
 Ion Ratio Lower Upper  
 212 100  
 106 2.6 2.2 3.2  
 104 1.5 1.2 1.8



#26  
 Fluoranthene  
 Concen: 0.370 ng  
 RT: 19.35 min Scan# 1441  
 Delta R.T. -0.01 min  
 Lab File: BE097784.D  
 Acq: 6 Oct 2018 10:01

Tgt Ion: 202 Resp: 26725  
 Ion Ratio Lower Upper  
 202 100  
 101 10.0 7.8 11.8  
 203 17.4 13.8 20.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.47 min Scan# 1672

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

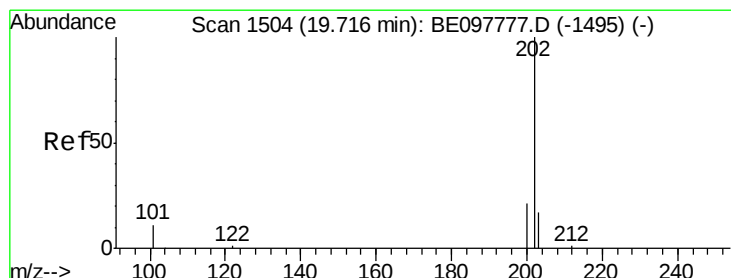
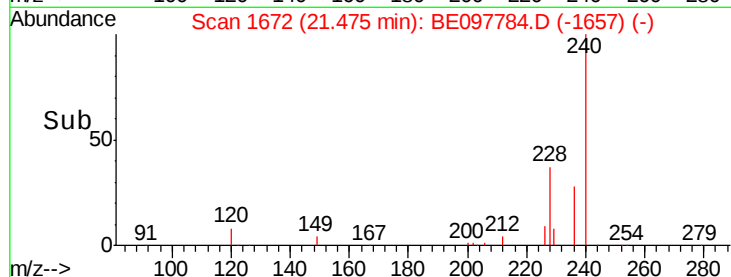
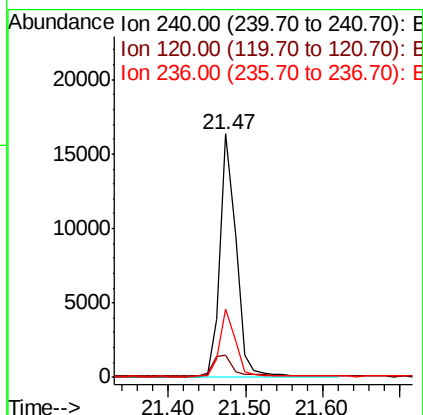
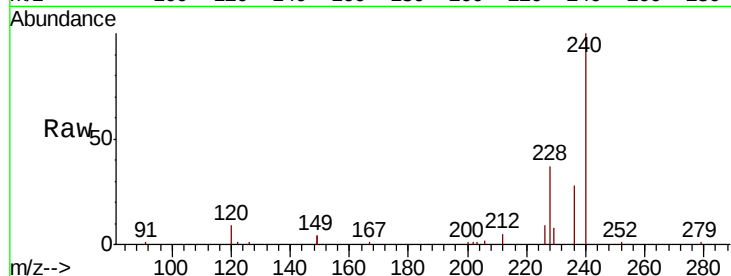
Tgt Ion:240 Resp: 23579

Ion Ratio Lower Upper

240 100

120 8.9 4.7 7.1#

236 27.9 20.8 31.2



#28

Pyrene

Concen: 0.443 ng

RT: 19.72 min Scan# 1504

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

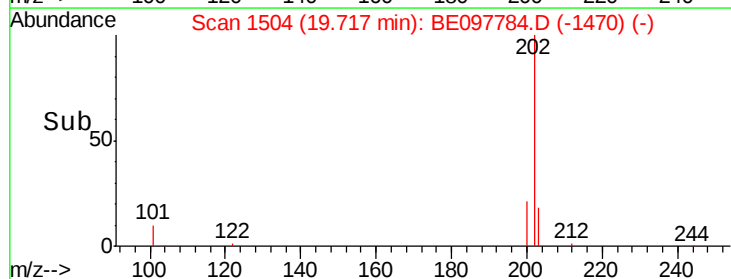
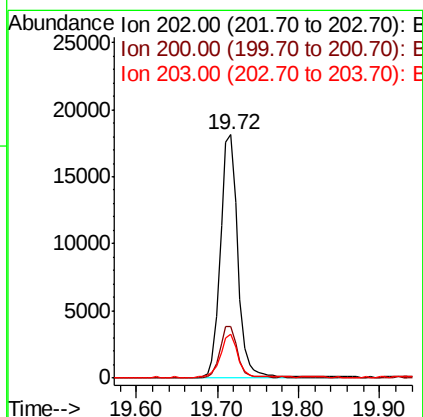
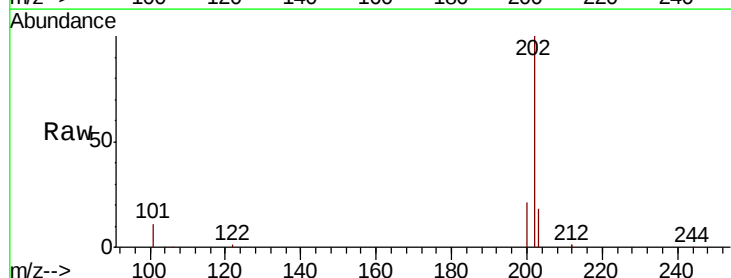
Tgt Ion:202 Resp: 26536

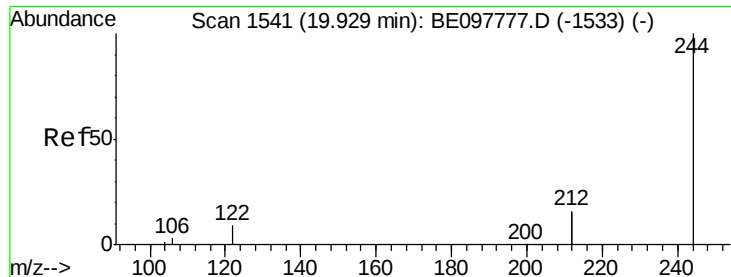
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 13.9 20.9





#29

Terphenyl-d14

Concen: 0.379 ng

RT: 19.92 min Scan# 1540

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

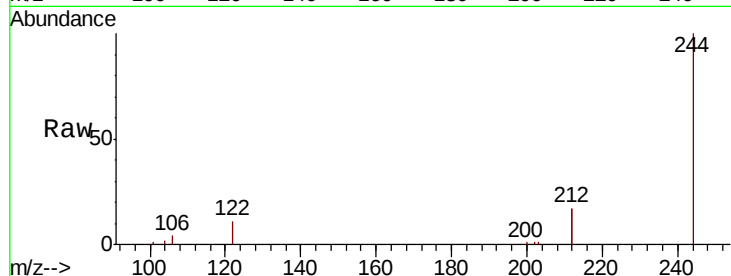
Tgt Ion:244 Resp: 18226

Ion Ratio Lower Upper

244 100

212 33.3 25.8 38.8

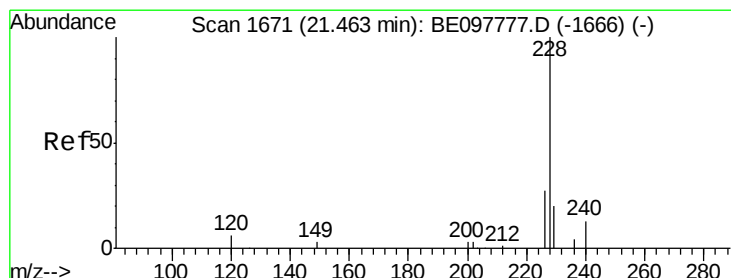
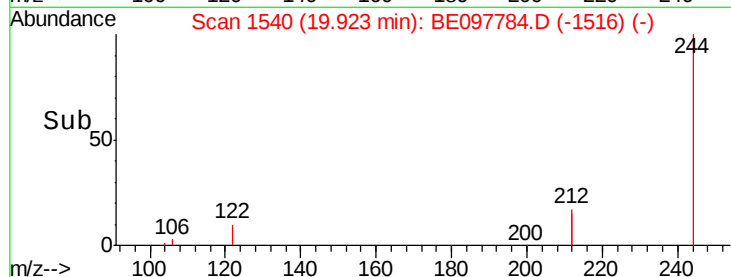
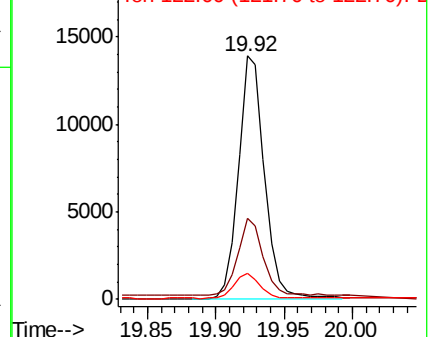
122 10.7 8.7 13.1



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: 0.434 ng

RT: 21.46 min Scan# 1671

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

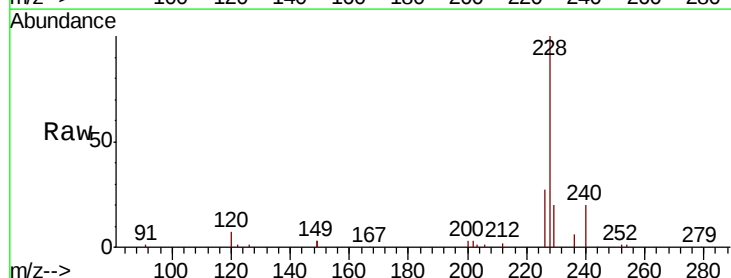
Tgt Ion:228 Resp: 27524

Ion Ratio Lower Upper

228 100

226 26.6 20.7 31.1

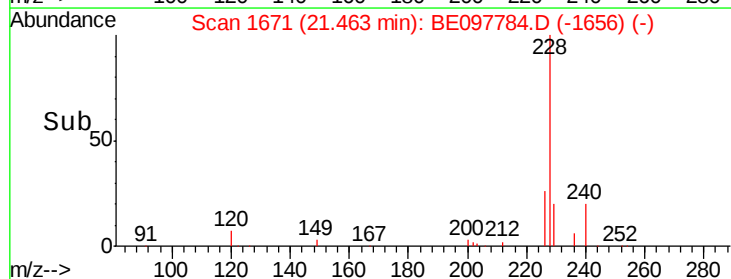
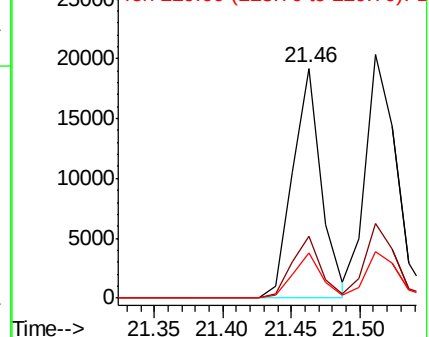
229 19.8 15.7 23.5

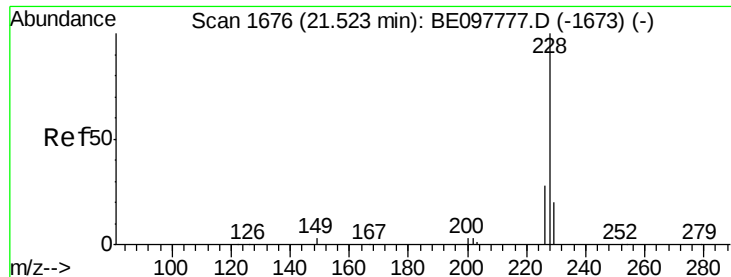


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.439 ng

RT: 21.51 min Scan# 1675

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

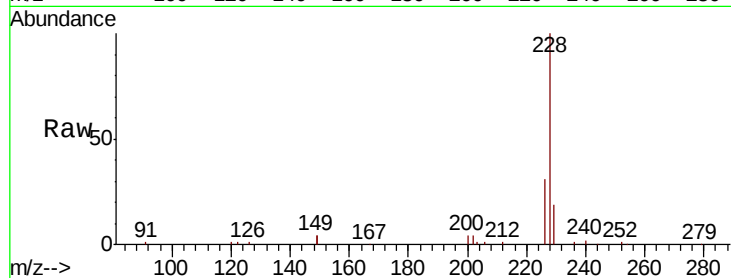
Tgt Ion:228 Resp: 31116

Ion Ratio Lower Upper

228 100

226 30.8 24.3 36.5

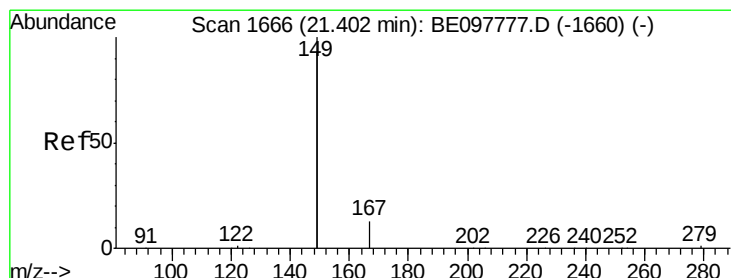
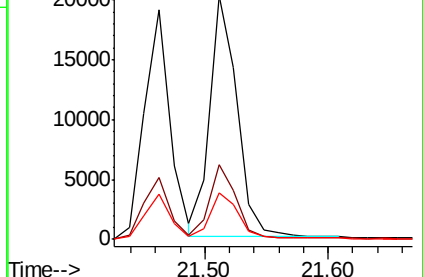
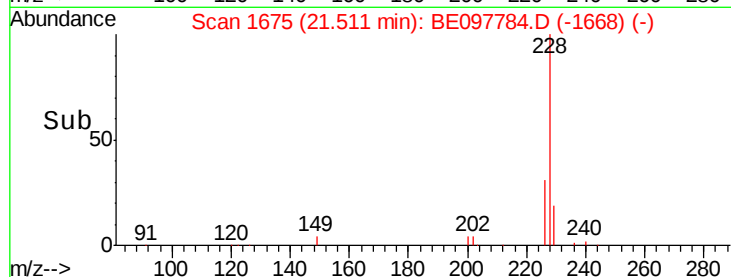
229 19.0 16.0 24.0



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: 0.495 ng

RT: 21.40 min Scan# 1666

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

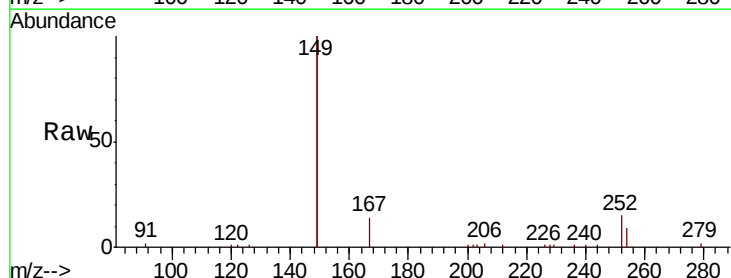
Tgt Ion:149 Resp: 22938

Ion Ratio Lower Upper

149 100

167 7.3 5.5 8.3

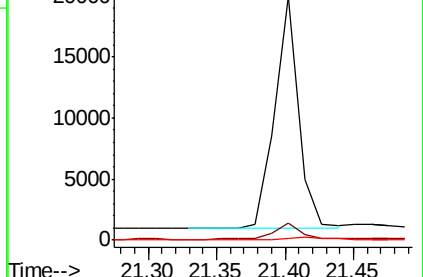
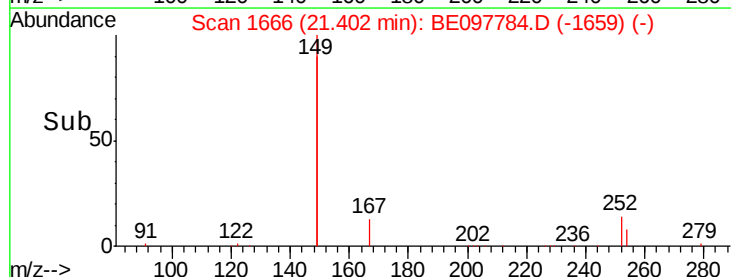
279 1.1 0.9 1.3

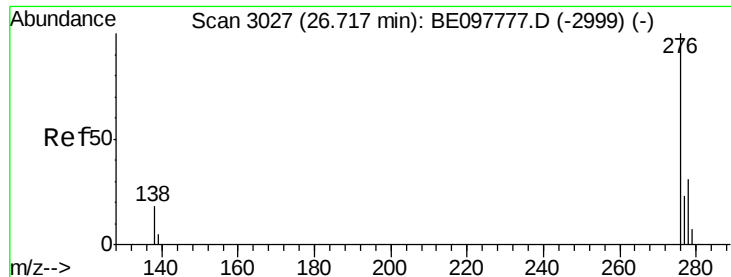


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.590 ng

RT: 26.71 min Scan# 3025

Delta R.T. -0.03 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

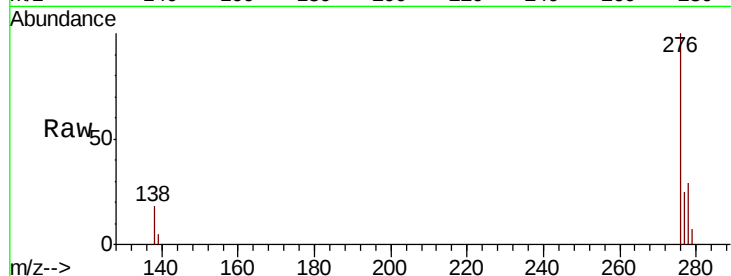
Tgt Ion:276 Resp: 36289

Ion Ratio Lower Upper

276 100

138 19.8 15.0 22.6

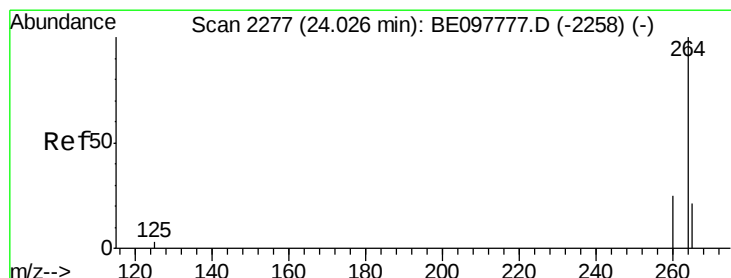
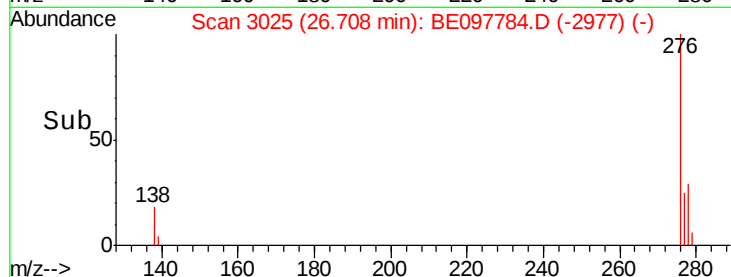
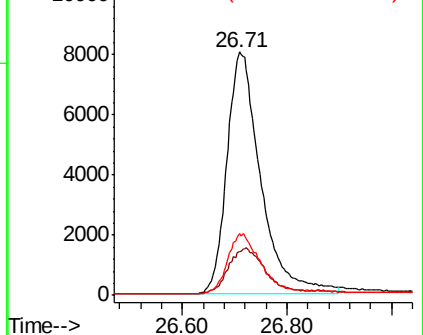
277 24.0 19.2 28.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.02 min Scan# 2276

Delta R.T. -0.02 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

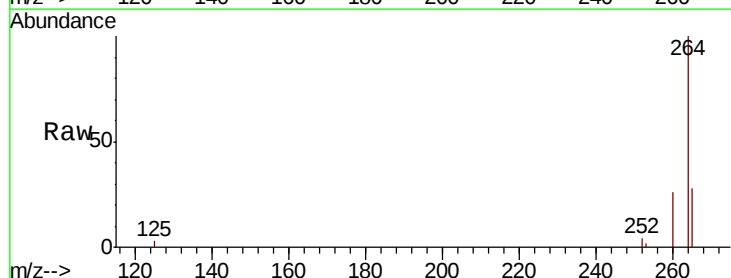
Tgt Ion:264 Resp: 25855

Ion Ratio Lower Upper

264 100

260 25.8 19.1 28.7

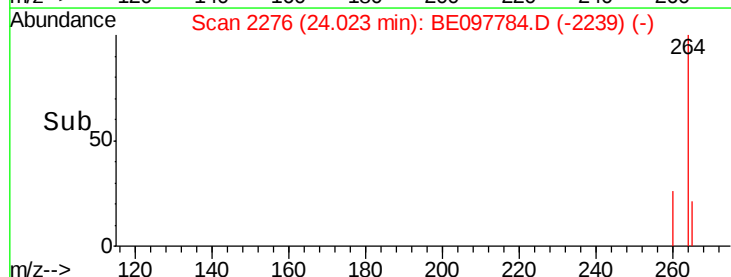
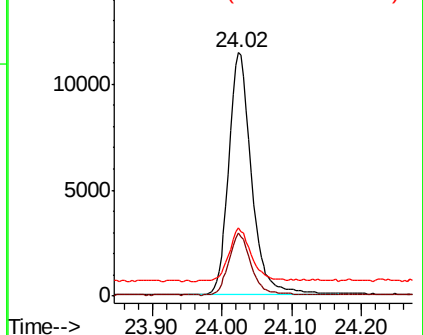
265 27.8 21.9 32.9

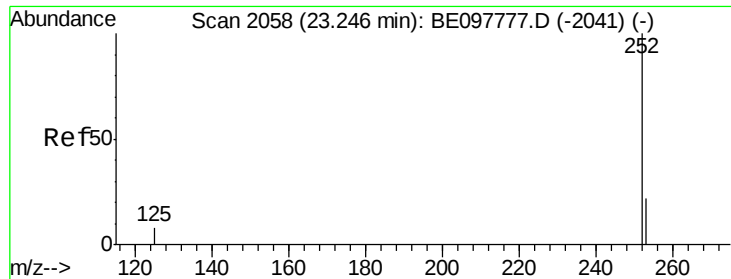


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.400 ng

RT: 23.25 min Scan# 2058

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

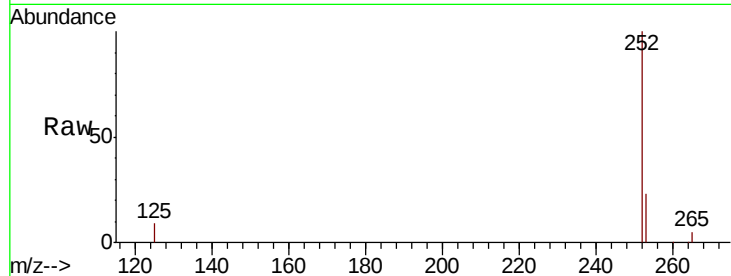
Tgt Ion:252 Resp: 28390

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 9.3 7.8 11.8

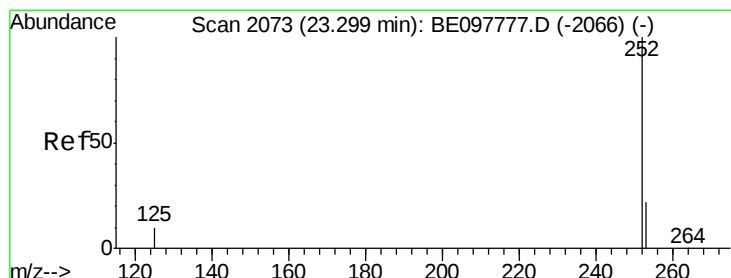
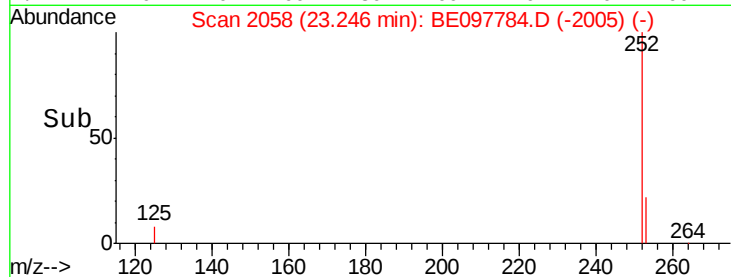
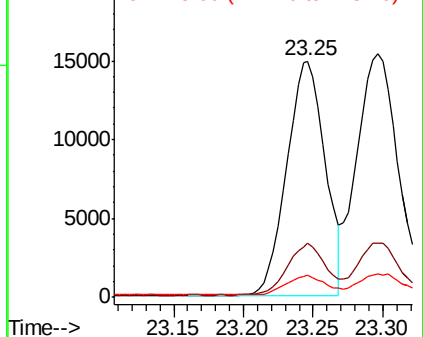


Abundance

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



#36

Benzo(k)fluoranthene

Concen: 0.409 ng

RT: 23.30 min Scan# 2072

Delta R.T. -0.01 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

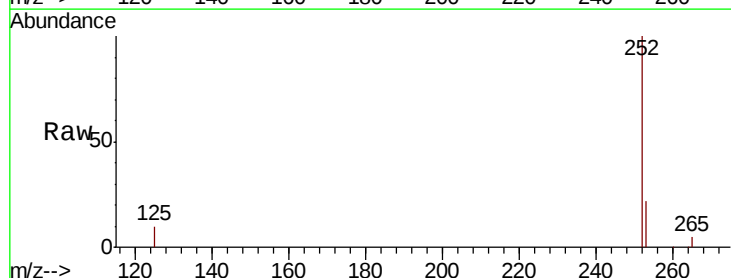
Tgt Ion:252 Resp: 32171

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 9.6 7.5 11.3

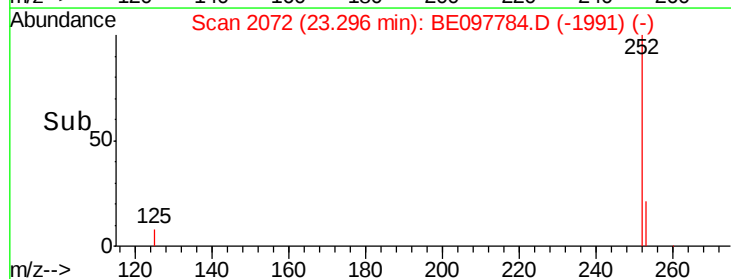
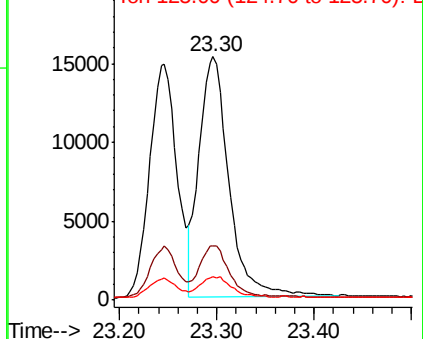


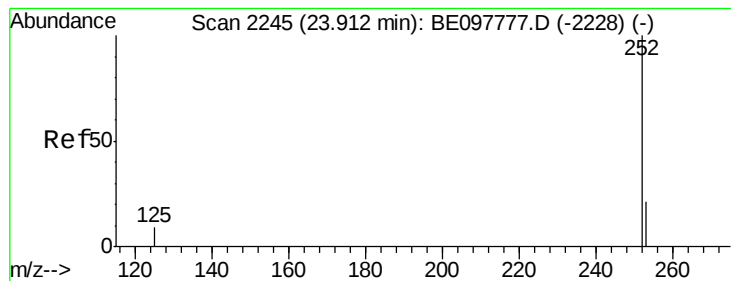
Abundance

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





#37

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.91 min Scan# 2244

Delta R.T. -0.02 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS

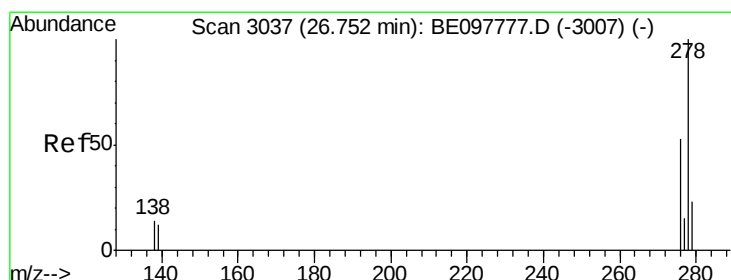
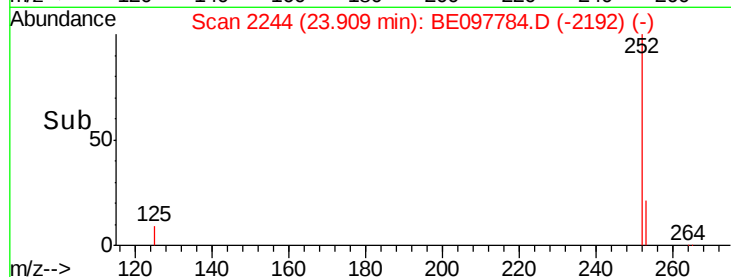
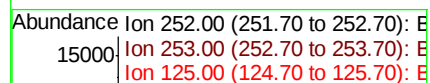
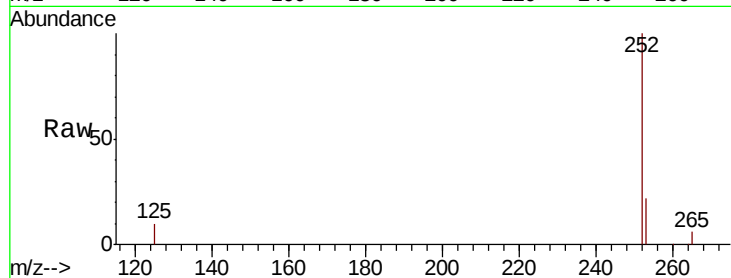
Tgt Ion:252 Resp: 26994

Ion Ratio Lower Upper

252 100

253 22.5 17.7 26.5

125 10.5 8.3 12.5



#38

Dibenzo(a,h)anthracene

Concen: 0.486 ng

RT: 26.74 min Scan# 3035

Delta R.T. -0.03 min

Lab File: BE097784.D

Acq: 6 Oct 2018 10:01

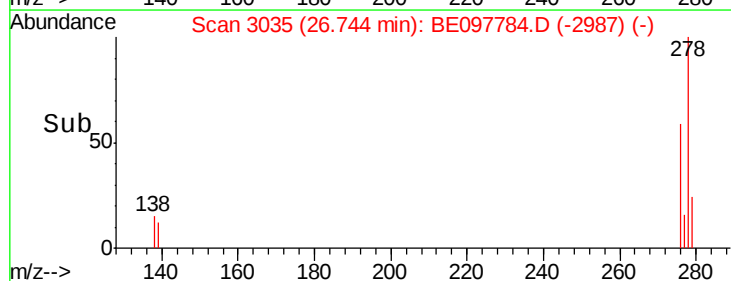
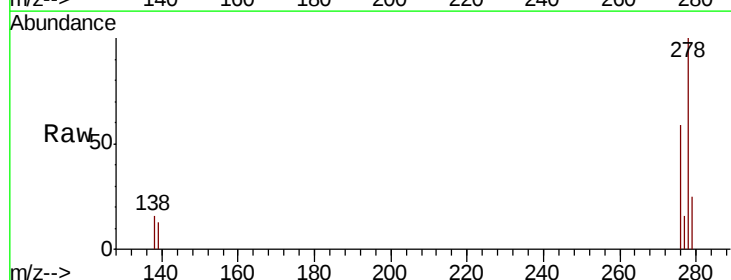
Tgt Ion:278 Resp: 30769

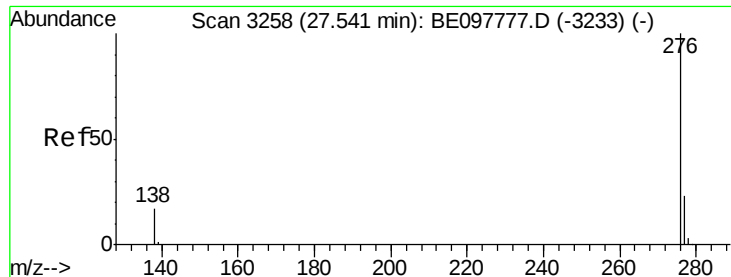
Ion Ratio Lower Upper

278 100

139 13.0 10.3 15.5

279 25.3 18.4 27.6





#39

Benzo(g,h,i)perylene

Concen: 0.505 ng

RT: 27.53 min Scan# 3255

Delta R.T. -0.03 min

Lab File: BE097784.D

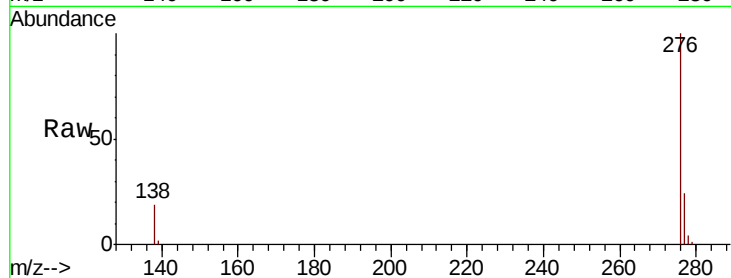
Acq: 6 Oct 2018 10:01

Instrument :

BNA\_E

ClientSampleId :

PB113550BS



Tgt Ion: 276 Resp: 33459

Ion Ratio Lower Upper

276 100

277 23.9 19.1 28.7

138 18.7 14.2 21.2

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

