

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072418\  
 Data File : BE097069.D  
 Acq On : 24 Jul 2018 11:59  
 Operator : SJ/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 24 12:37:20 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 11:09:08 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 1238     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 6236     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.01 | 164  | 4029     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.77 | 188  | 10363    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.98 | 240  | 11419    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 8871     | 0.40 | ng    | 0.00     |

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| System Monitoring Compounds |       |     |        |      |    |      |
| 4) 2-Fluorophenol           | 5.05  | 112 | 11697  | 3.95 | ng | 0.00 |
| 5) Phenol-d6                | 6.59  | 99  | 18134  | 4.01 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.52  | 82  | 18901  | 4.16 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.73 | 152 | 31634  | 3.48 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330 | 6126   | 5.99 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.63 | 172 | 46611  | 3.11 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.81 | 212 | 389510 | 4.32 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.43 | 244 | 73683  | 3.34 | ng | 0.00 |

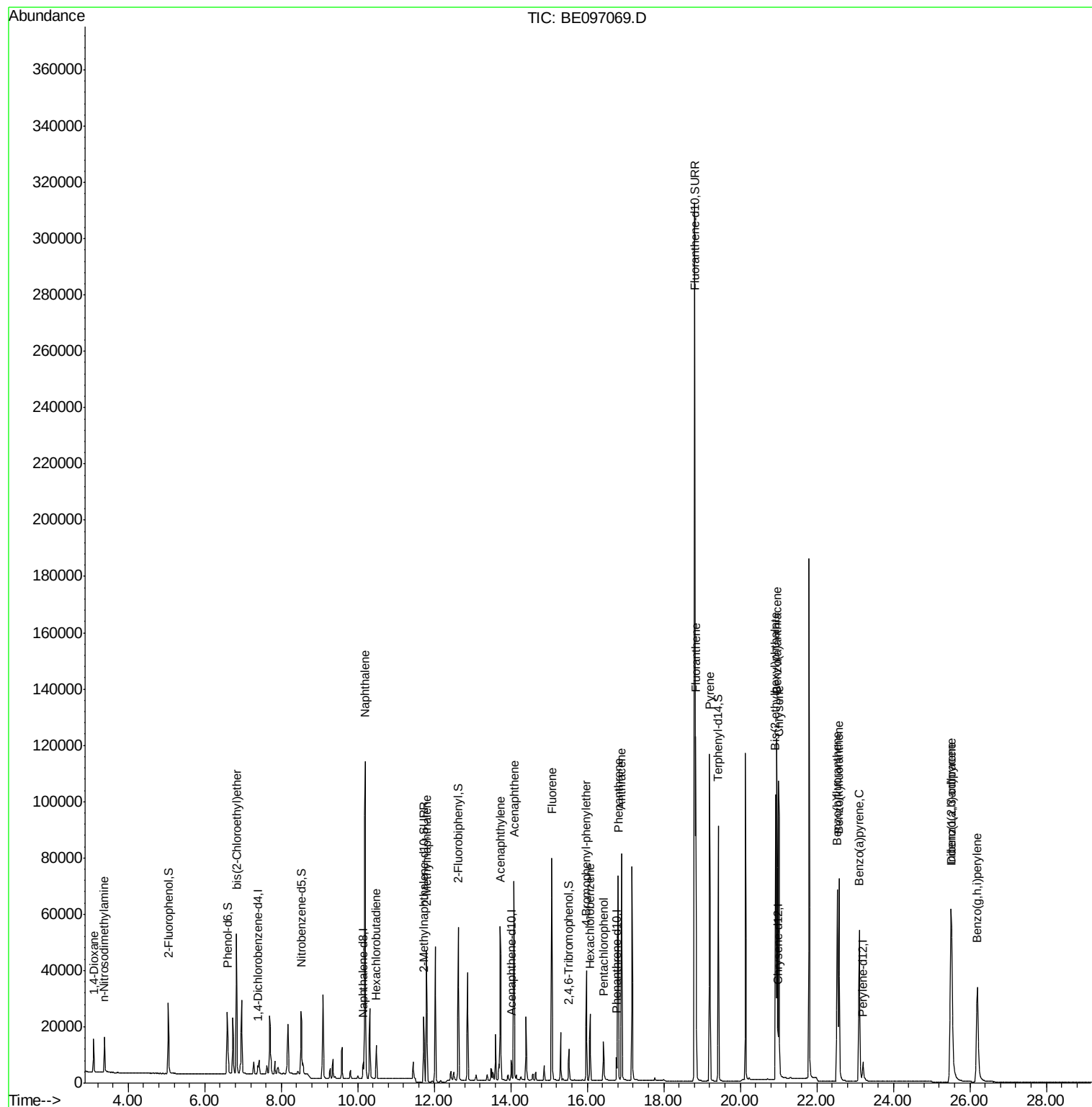
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.09  | 88  | 6263   | 3.534  | ng | # 86 |
| 3) n-Nitrosodimethylamine      | 3.37  | 42  | 7861   | 3.942  | ng | # 91 |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93  | 15393  | 3.471  | ng | 98   |
| 9) Naphthalene                 | 10.20 | 128 | 186734 | 3.345  | ng | 99   |
| 10) Hexachlorobutadiene        | 10.48 | 225 | 8354   | 3.702  | ng | 98   |
| 12) 2-Methylnaphthalene        | 11.80 | 142 | 32975  | 3.483  | ng | 99   |
| 16) Acenaphthylene             | 13.73 | 152 | 62292  | 3.385  | ng | 100  |
| 17) Acenaphthene               | 14.08 | 154 | 36326  | 3.175  | ng | 95   |
| 18) Fluorene                   | 15.08 | 166 | 48655  | 3.788  | ng | # 79 |
| 20) 4-Bromophenyl-phenylether  | 15.97 | 248 | 17817  | 3.636  | ng | # 85 |
| 21) Hexachlorobenzene          | 16.08 | 284 | 18292  | 3.361  | ng | # 83 |
| 22) Pentachlorophenol          | 16.43 | 266 | 7198   | 8.061  | ng | # 70 |
| 23) Phenanthrene               | 16.81 | 178 | 85944  | 3.463  | ng | 99   |
| 24) Anthracene                 | 16.89 | 178 | 83125  | 3.849  | ng | 96   |
| 26) Fluoranthene               | 18.84 | 202 | 104146 | 3.979  | ng | 98   |
| 28) Pyrene                     | 19.20 | 202 | 103970 | 3.085  | ng | 99   |
| 30) Benzo(a)anthracene         | 20.95 | 228 | 99577  | 3.662  | ng | 97   |
| 31) Chrysene                   | 21.00 | 228 | 102617 | 3.364  | ng | 97   |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149 | 144047 | 5.307  | ng | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.50 | 276 | 98268  | 4.423  | ng | # 93 |
| 35) Benzo(b)fluoranthene       | 22.53 | 252 | 83807  | 3.702  | ng | # 86 |
| 36) Benzo(k)fluoranthene       | 22.58 | 252 | 97808  | 3.632  | ng | 97   |
| 37) Benzo(a)pyrene             | 23.11 | 252 | 80531  | 3.976  | ng | # 92 |
| 38) Dibenzo(a,h)anthracene     | 25.52 | 278 | 82232  | 4.973  | ng | # 93 |
| 39) Benzo(g,h,i)perylene       | 26.19 | 276 | 82773  | 4.497  | ng | # 89 |

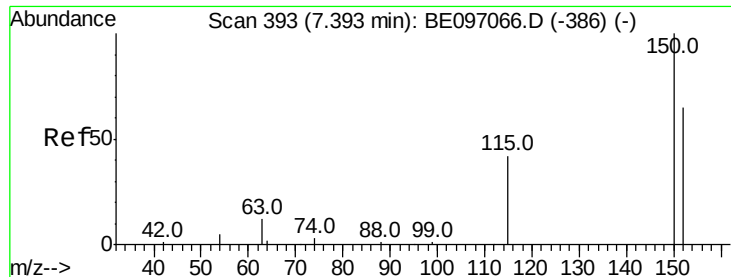
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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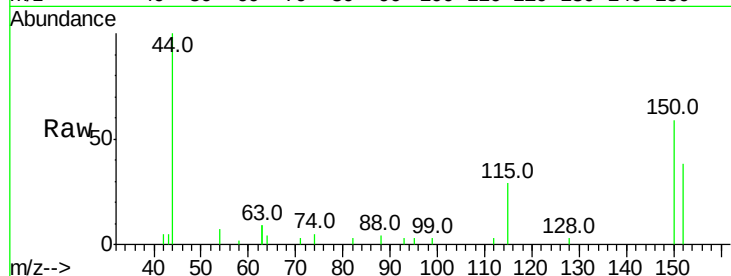


#1

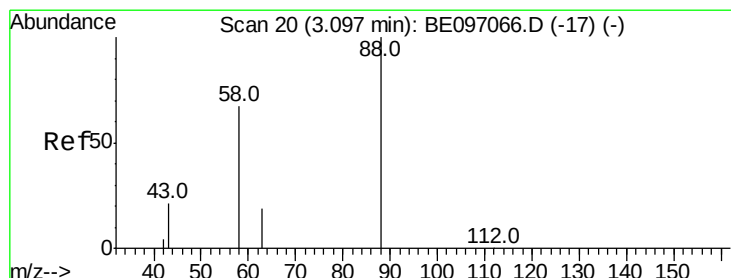
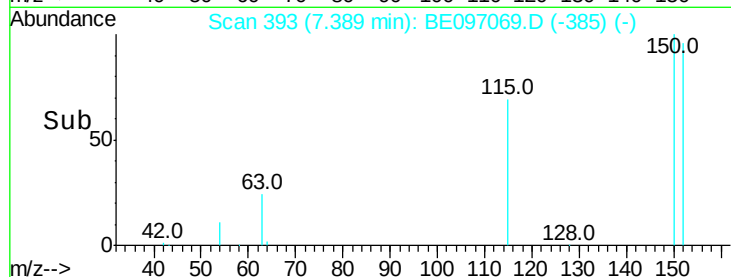
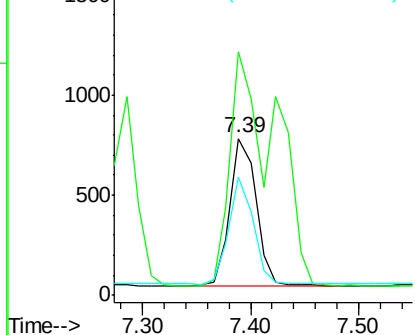
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.39 min Scan# 393  
 Delta R.T. -0.00 min  
 Lab File: BE097069.D  
 Acq: 24 Jul 2018 11:59

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:152 Resp: 1238  
 Ion Ratio Lower Upper  
 152 100  
 150 154.9 117.2 175.8  
 115 75.3 57.0 85.6



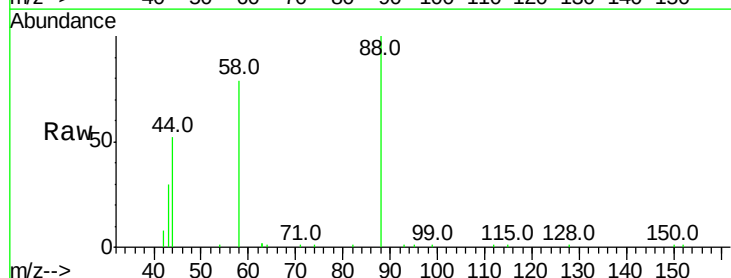
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



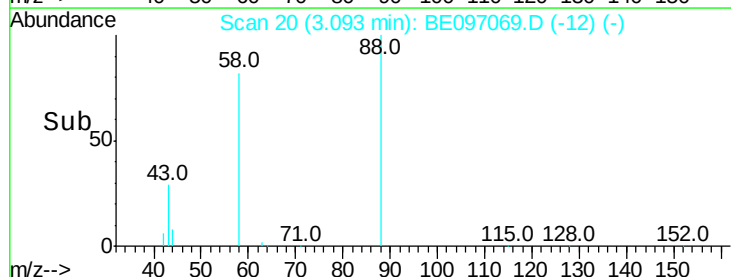
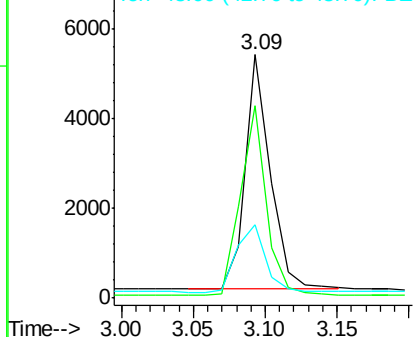
#2

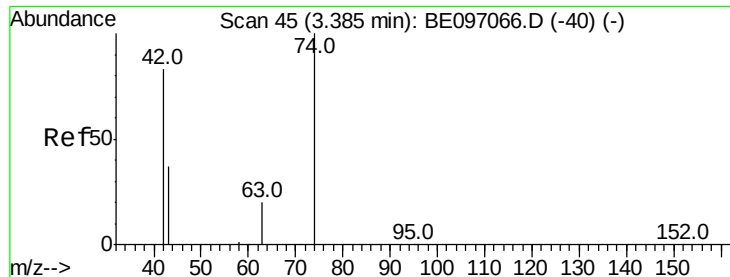
1,4-Dioxane  
 Concen: 3.534 ng  
 RT: 3.09 min Scan# 20  
 Delta R.T. -0.00 min  
 Lab File: BE097069.D  
 Acq: 24 Jul 2018 11:59

Tgt Ion: 88 Resp: 6263  
 Ion Ratio Lower Upper  
 88 100  
 58 84.5 63.2 94.8  
 43 33.7 41.2 61.8#



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



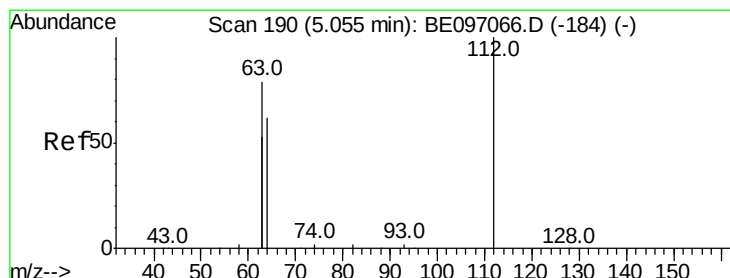
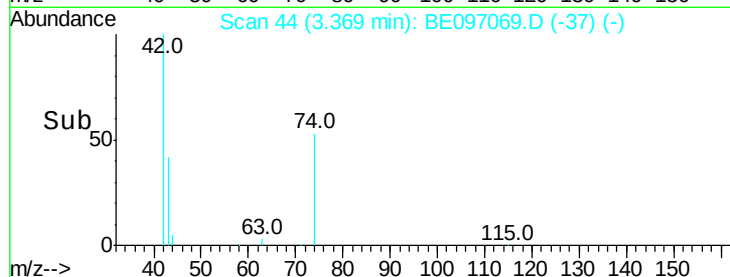
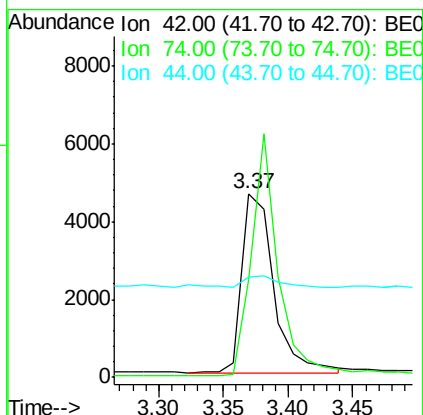
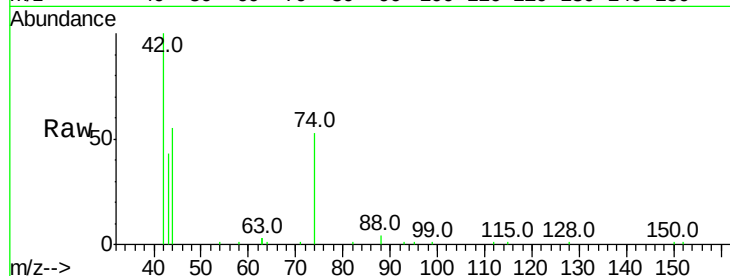


#3

n-Nitrosodimethylamine  
 Concen: 3.942 ng  
 RT: 3.37 min Scan# 44  
 Delta R.T. -0.02 min  
 Lab File: BE097069.D  
 Acq: 24 Jul 2018 11:59

Instrument :  
 BNA\_E  
 ClientSampleId :

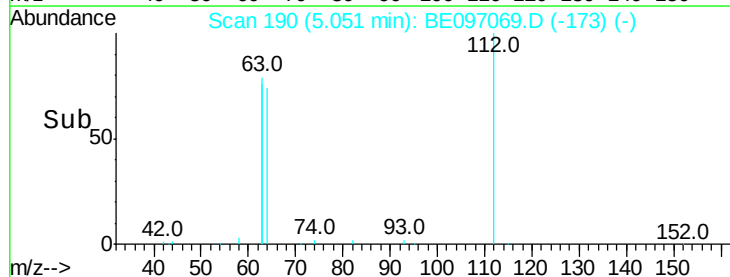
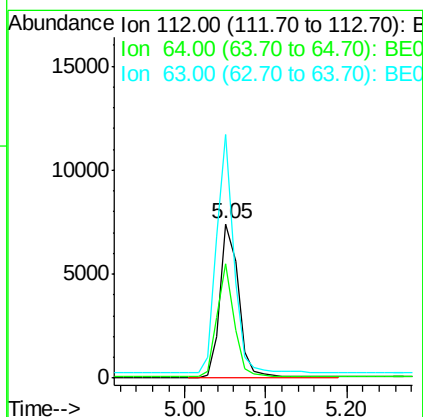
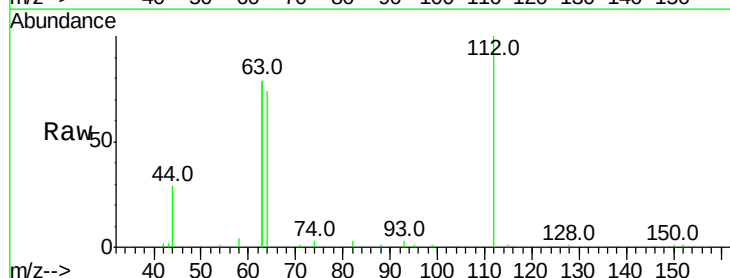
Tot Ion: 42 Resp: 7861  
 Ion Ratio Lower Upper  
 42 100  
 74 111.7 96.0 144.0  
 44 6.8 12.0 18.0#

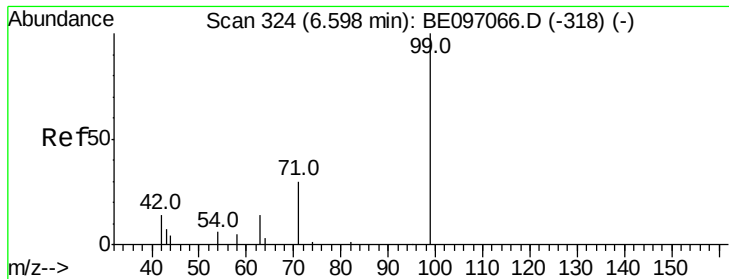


#4

2-Fluorophenol  
 Concen: 3.950 ng  
 RT: 5.05 min Scan# 190  
 Delta R.T. -0.00 min  
 Lab File: BE097069.D  
 Acq: 24 Jul 2018 11:59

Tgt Ion: 112 Resp: 11697  
 Ion Ratio Lower Upper  
 112 100  
 64 69.0 60.1 90.1  
 63 146.6 116.8 175.2





#5

Phenol-d6

Concen: 4.012 ng

RT: 6.59 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

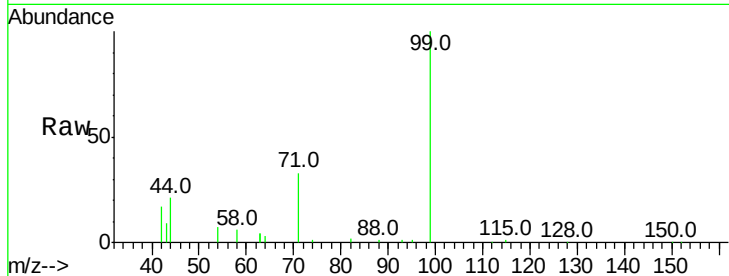
Tot Ion: 99 Resp: 18134

Ion Ratio Lower Upper

99 100

42 23.8 20.2 30.2

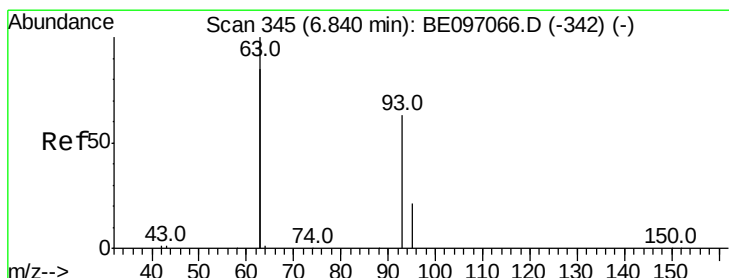
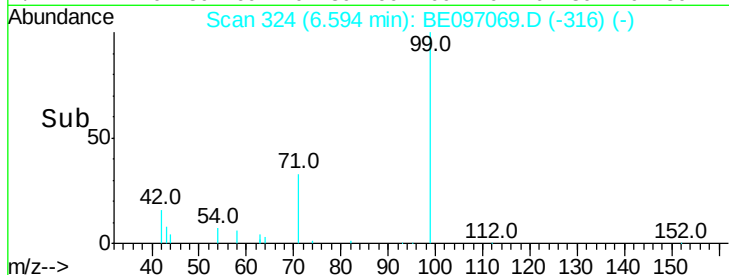
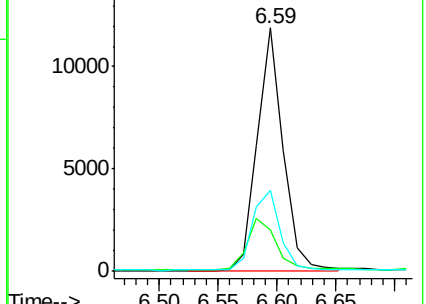
71 35.5 28.4 42.6



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: 3.471 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

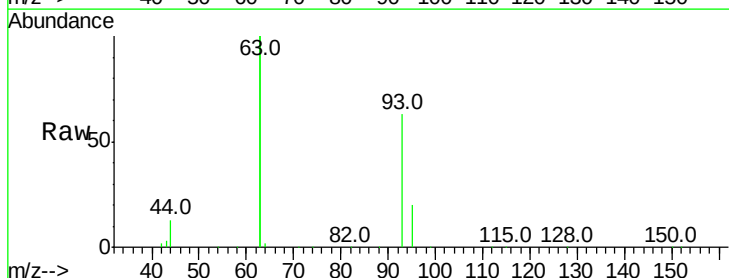
Tgt Ion: 93 Resp: 15393

Ion Ratio Lower Upper

93 100

63 340.6 275.3 412.9

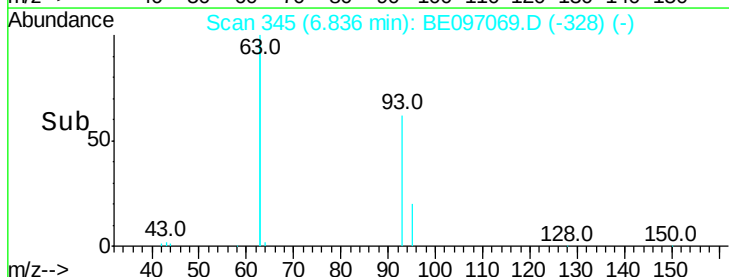
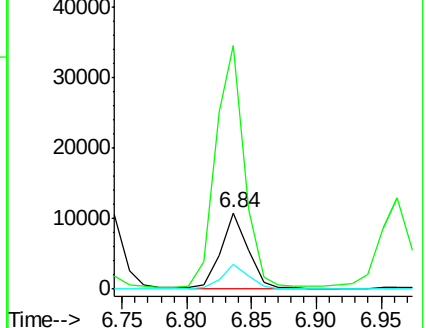
95 32.3 25.2 37.8

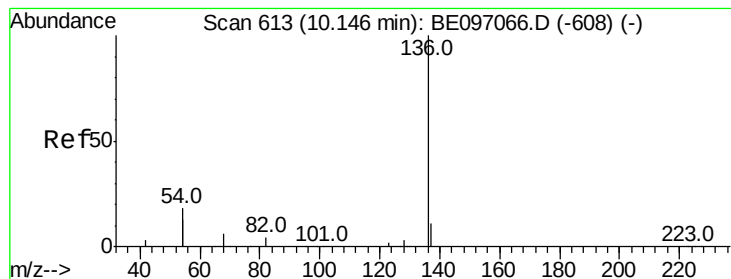


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 6236

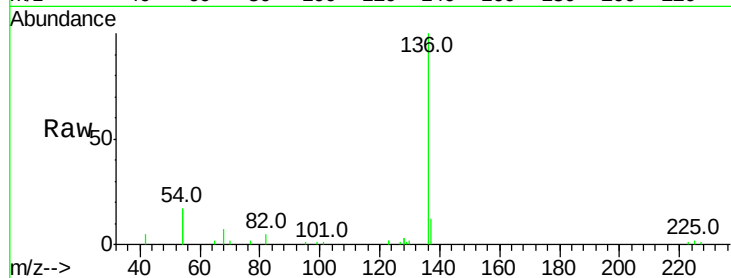
Ion Ratio Lower Upper

136 100

137 12.1 9.5 14.3

54 34.0 29.1 43.7

68 7.0 6.2 9.2

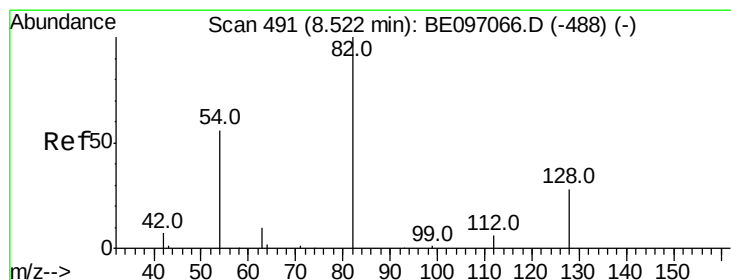
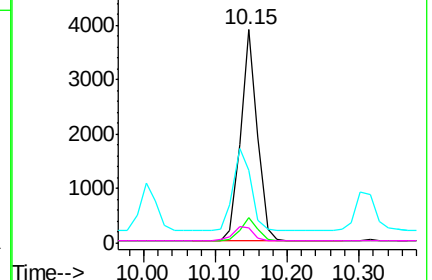
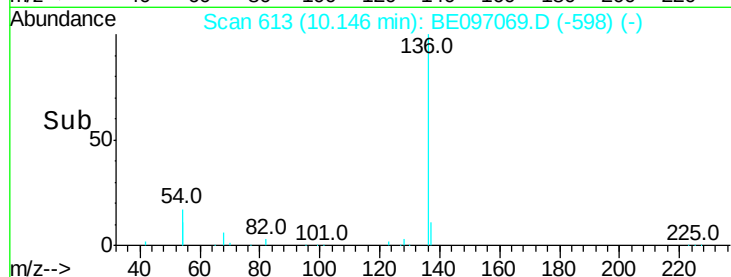


Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.156 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

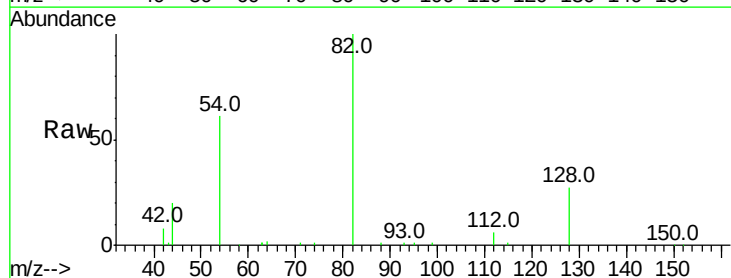
Tgt Ion: 82 Resp: 18901

Ion Ratio Lower Upper

82 100

128 26.8 24.0 36.0

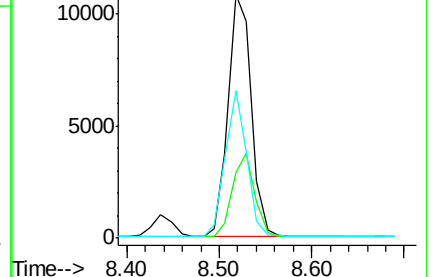
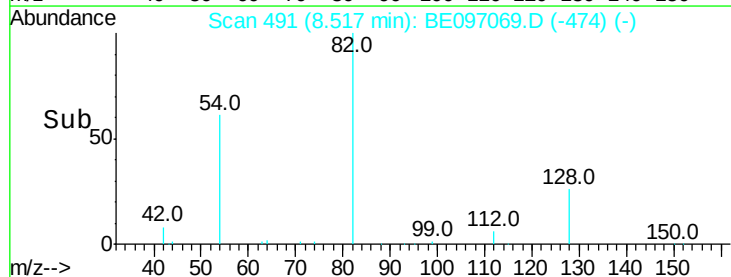
54 60.8 40.0 60.0#

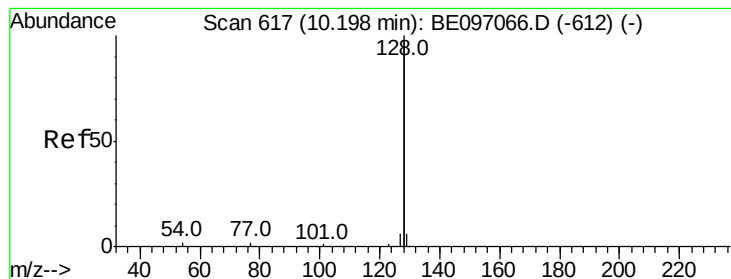


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 3.345 ng

RT: 10.20 min Scan# 617

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampled :

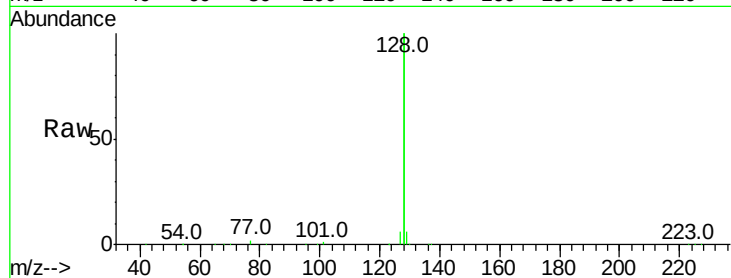
Tot Ion:128 Resp: 186734

Ion Ratio Lower Upper

128 100

129 2.8 2.6 3.8

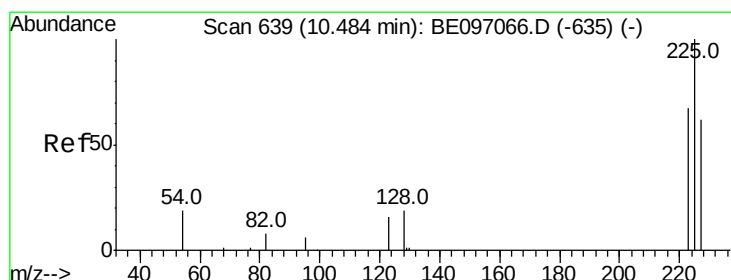
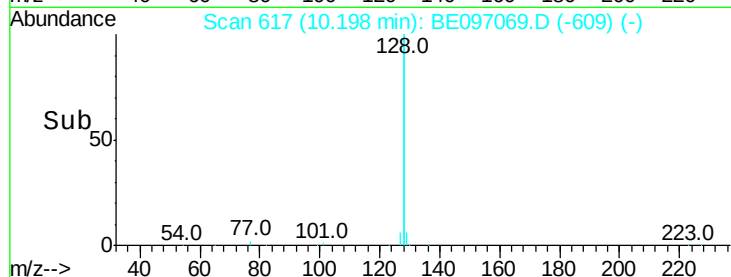
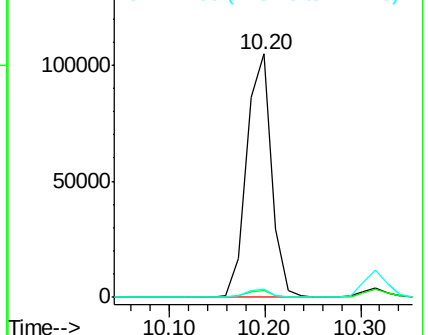
127 3.2 2.8 4.2



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: 3.702 ng

RT: 10.48 min Scan# 639

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

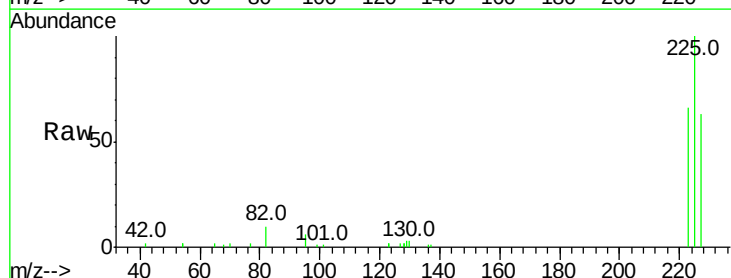
Tgt Ion:225 Resp: 8354

Ion Ratio Lower Upper

225 100

223 63.4 53.0 79.6

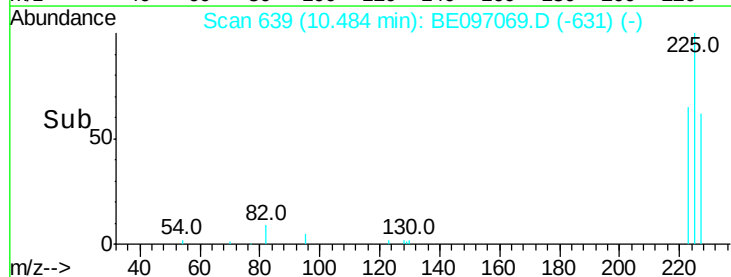
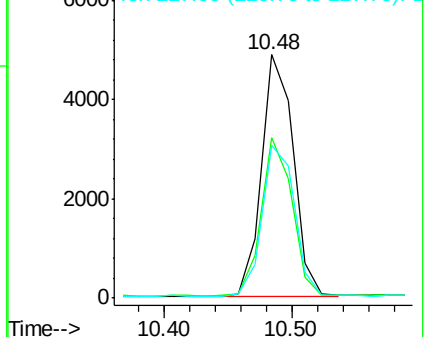
227 63.6 51.4 77.2

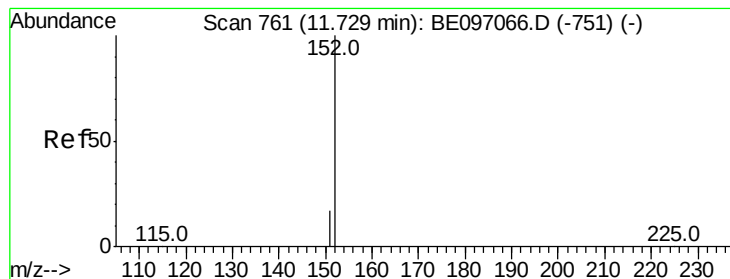


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 3.481 ng

RT: 11.73 min Scan# 761

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

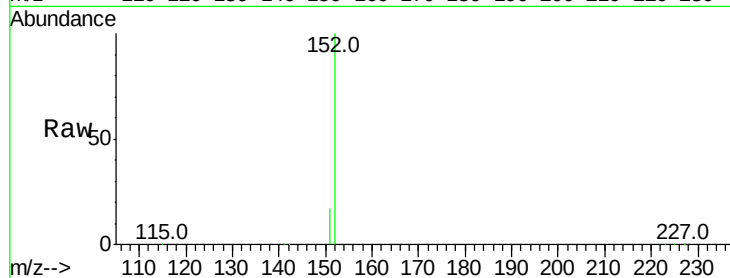
ClientSampleId :

Tot Ion:152 Resp: 31634

Ion Ratio Lower Upper

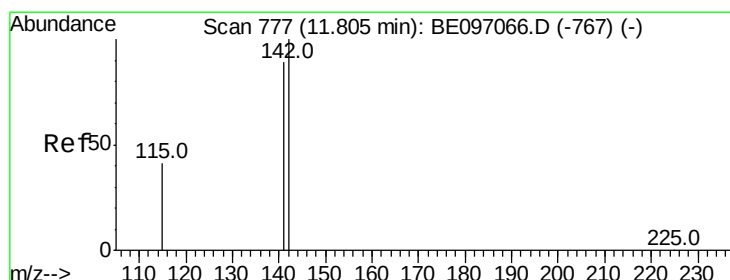
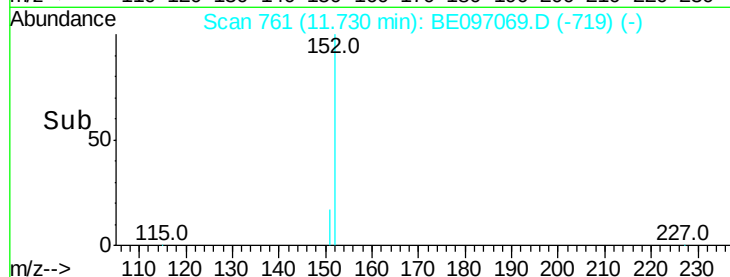
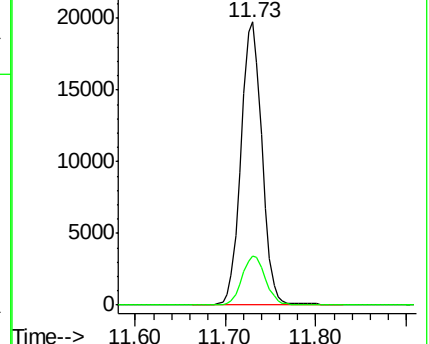
152 100

151 19.0 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 3.483 ng

RT: 11.80 min Scan# 776

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

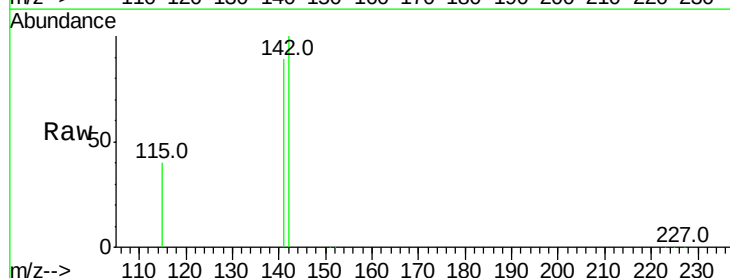
Tgt Ion:142 Resp: 32975

Ion Ratio Lower Upper

142 100

141 89.1 70.4 105.6

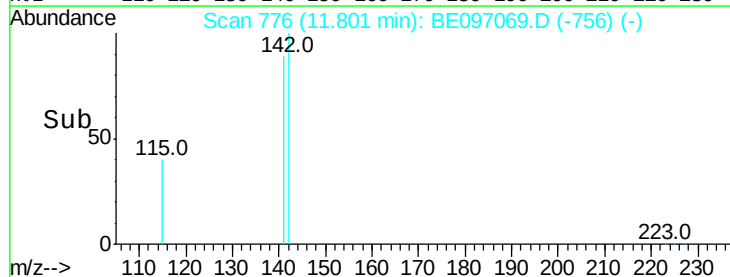
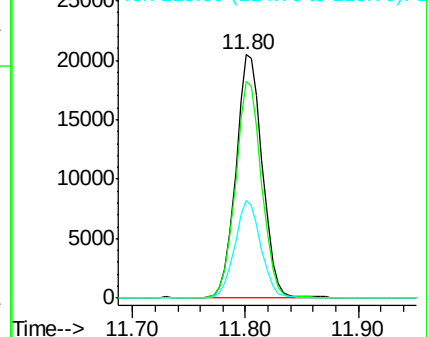
115 39.9 31.7 47.5



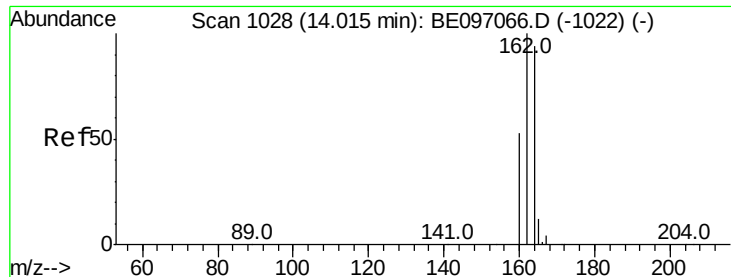
Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.01 min Scan# 1027

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

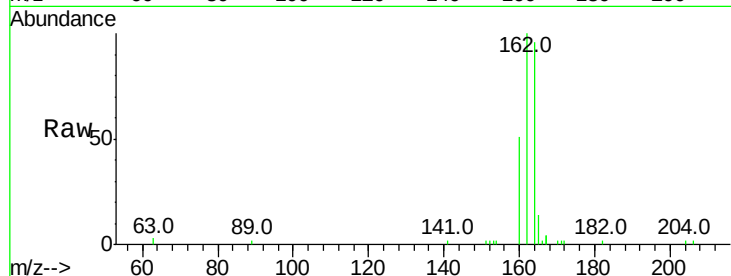
Tot Ion:164 Resp: 4029

Ion Ratio Lower Upper

164 100

162 104.5 83.1 124.7

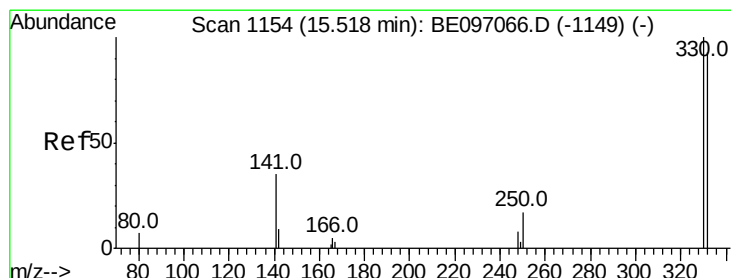
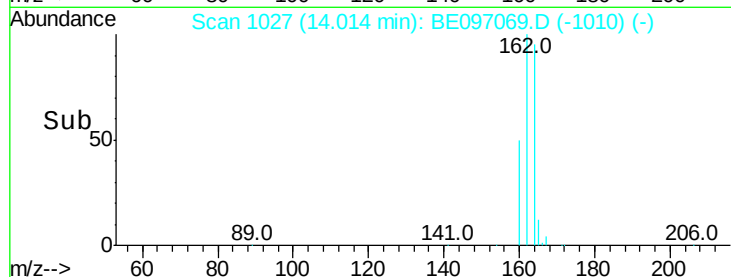
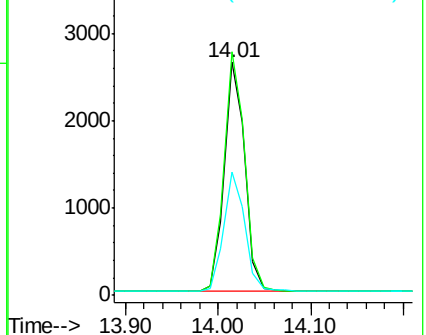
160 52.9 37.1 55.7



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: 5.994 ng

RT: 15.52 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

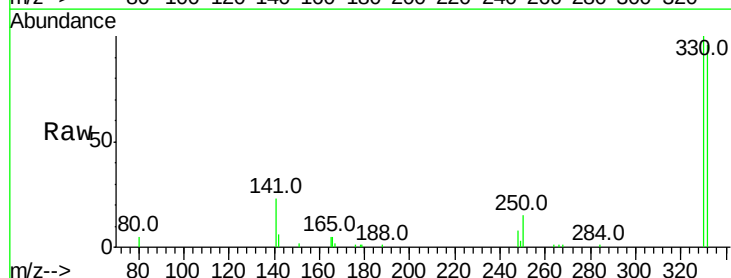
Tgt Ion:330 Resp: 6126

Ion Ratio Lower Upper

330 100

332 96.7 152.7 229.1#

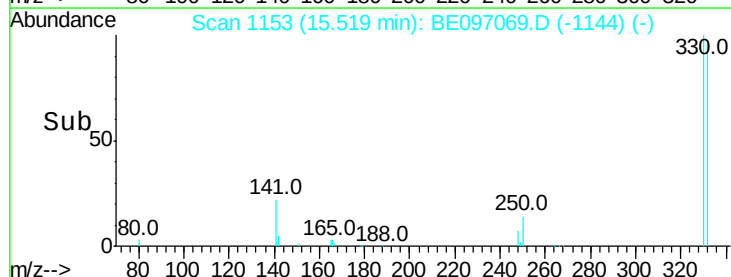
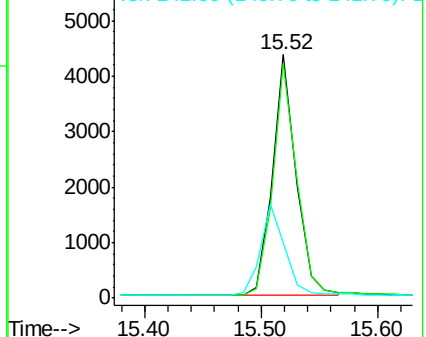
141 39.5 33.7 50.5

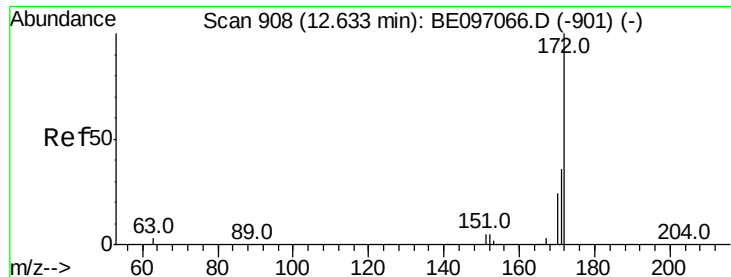


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

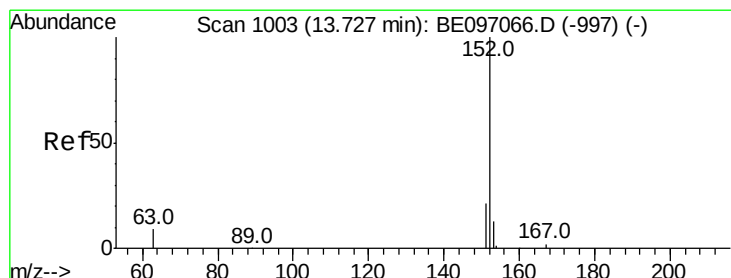
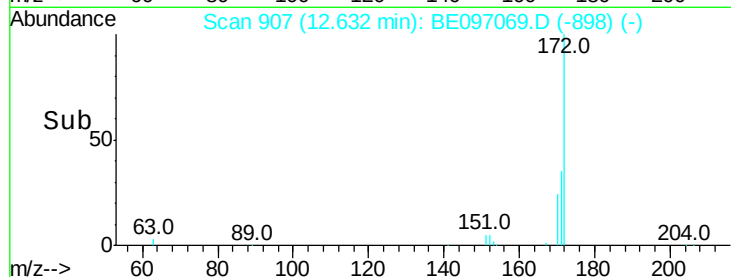
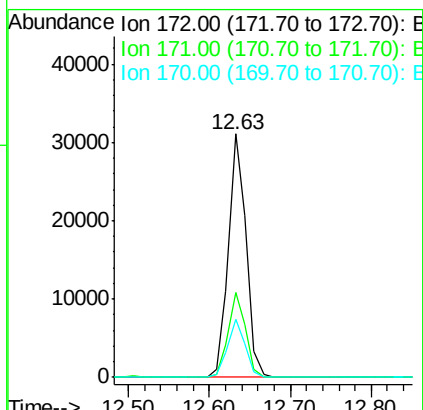
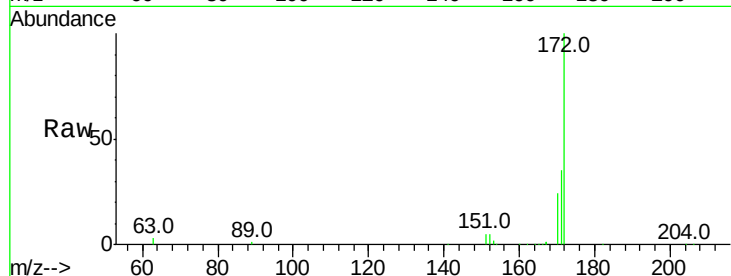




#15  
2-Fluorobiphenyl  
Concen: 3.110 ng  
RT: 12.63 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: BE097069.D  
Acq: 24 Jul 2018 11:59

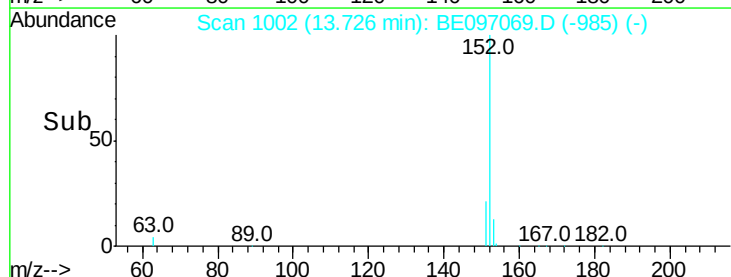
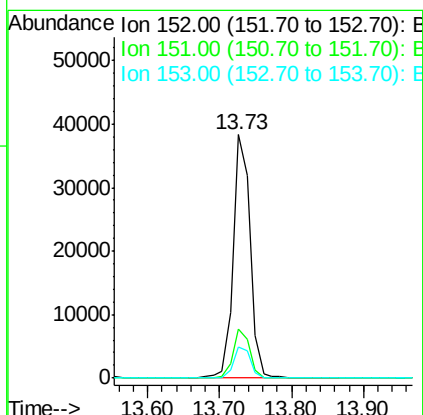
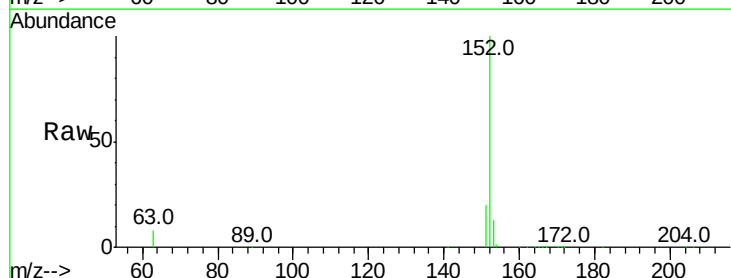
Instrument :  
BNA\_E  
ClientSampleId :

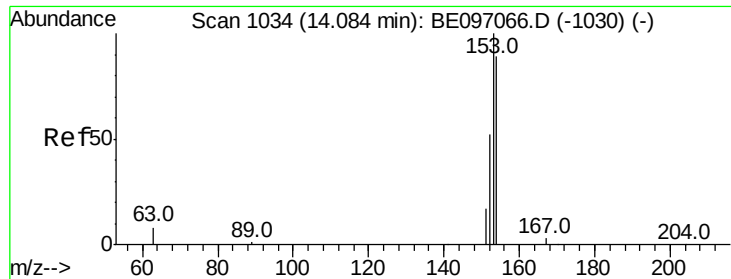
Tot Ion:172 Resp: 46611  
Ion Ratio Lower Upper  
172 100  
171 35.1 29.9 44.9  
170 24.0 21.8 32.8



#16  
Acenaphthylene  
Concen: 3.385 ng  
RT: 13.73 min Scan# 1002  
Delta R.T. -0.00 min  
Lab File: BE097069.D  
Acq: 24 Jul 2018 11:59

Tgt Ion:152 Resp: 62292  
Ion Ratio Lower Upper  
152 100  
151 19.6 15.7 23.5  
153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 3.175 ng

RT: 14.08 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

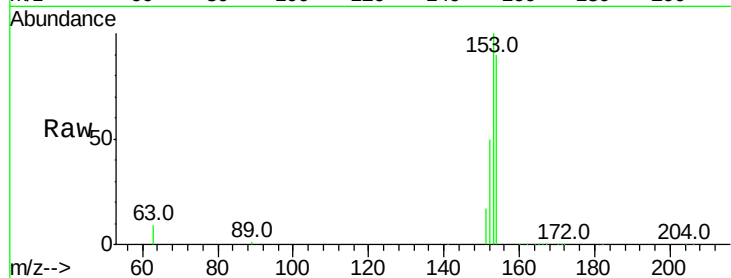
Tot Ion:154 Resp: 36326

Ion Ratio Lower Upper

154 100

153 114.0 89.2 133.8

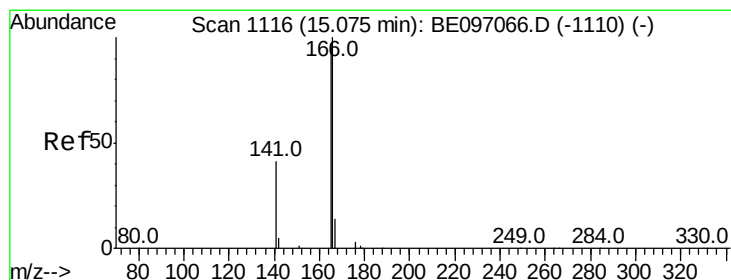
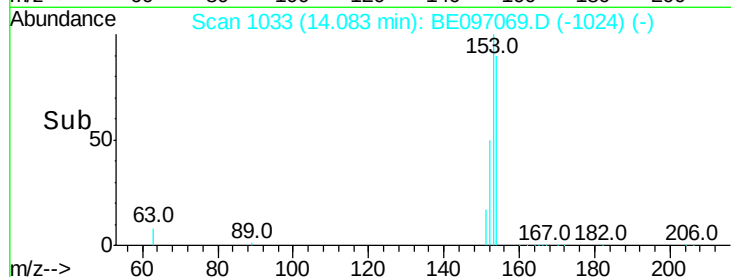
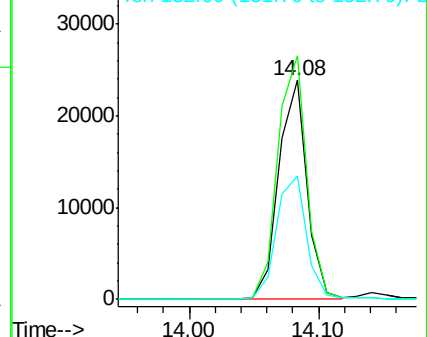
152 59.8 42.0 63.0



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: 3.788 ng

RT: 15.08 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

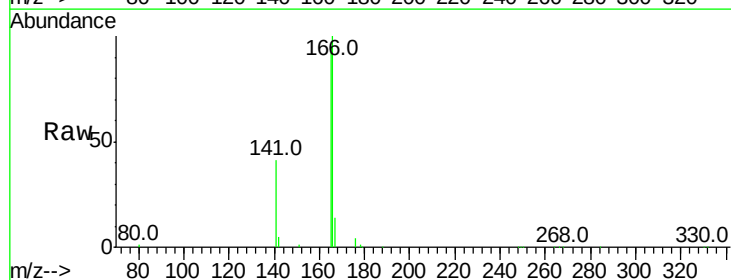
Tgt Ion:166 Resp: 48655

Ion Ratio Lower Upper

166 100

165 98.7 77.8 116.6

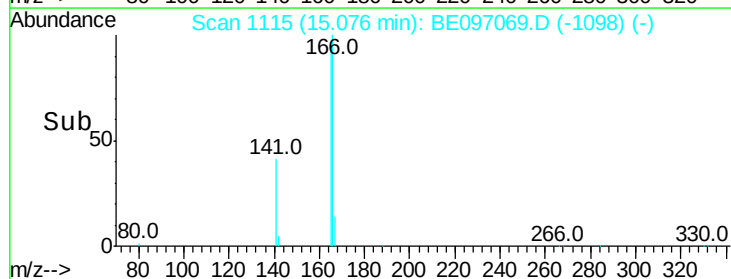
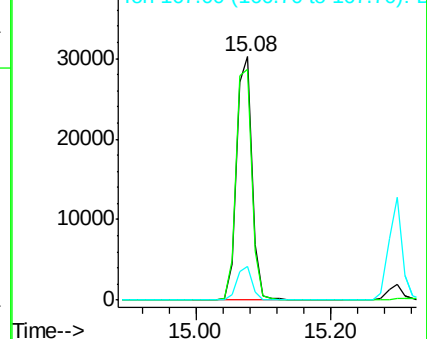
167 13.5 42.4 63.6#

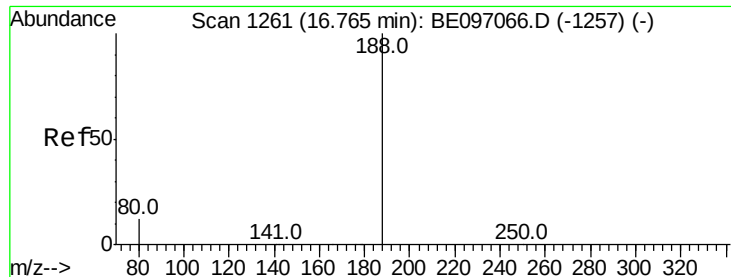


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.77 min Scan# 1260

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampled :

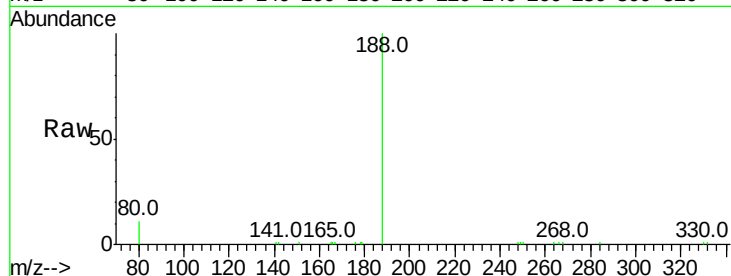
Tot Ion:188 Resp: 10363

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

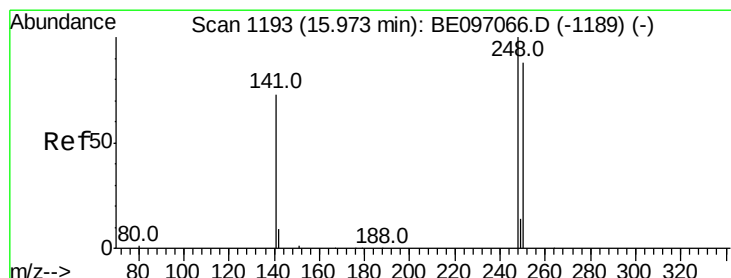
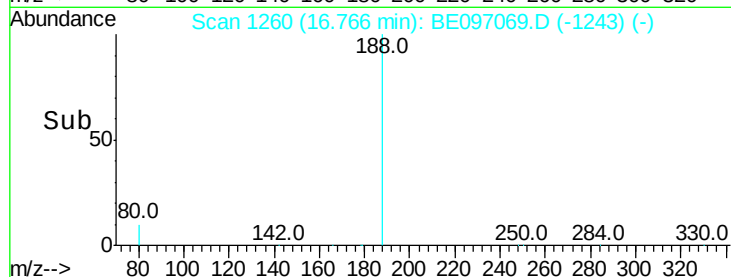
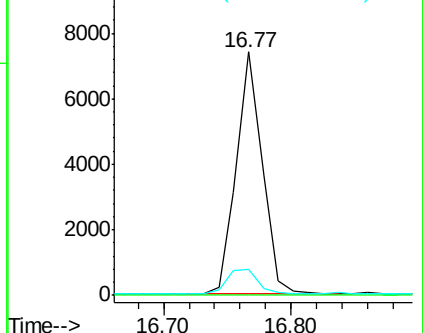
80 10.9 3.6 5.4#



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: 3.636 ng

RT: 15.97 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

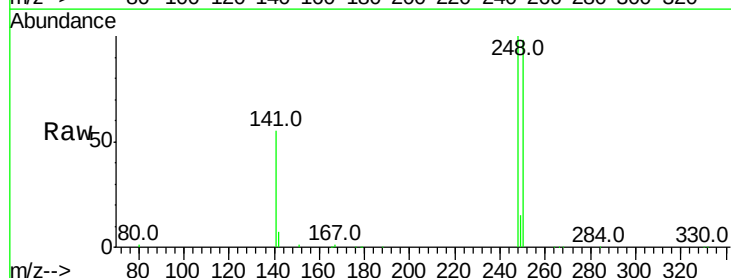
Tgt Ion:248 Resp: 17817

Ion Ratio Lower Upper

248 100

250 97.7 62.7 94.1#

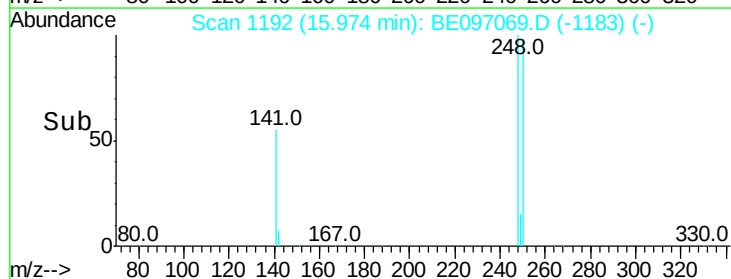
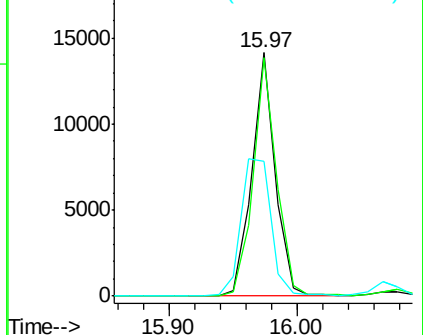
141 55.4 48.2 72.2

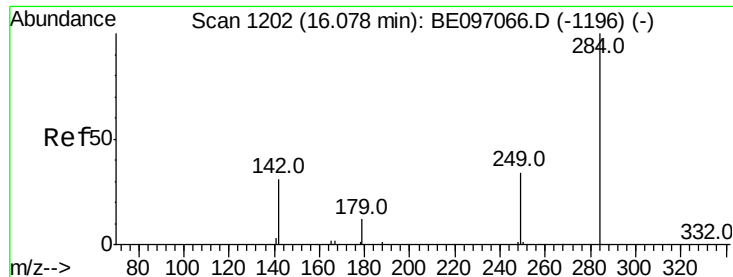


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

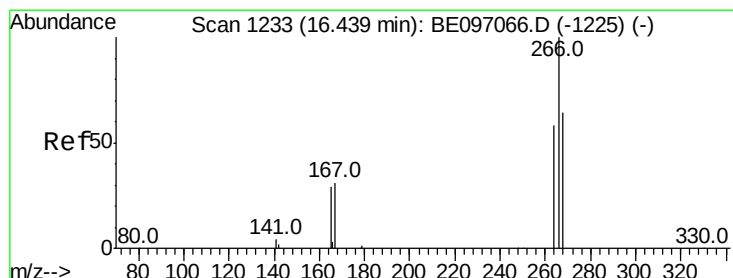
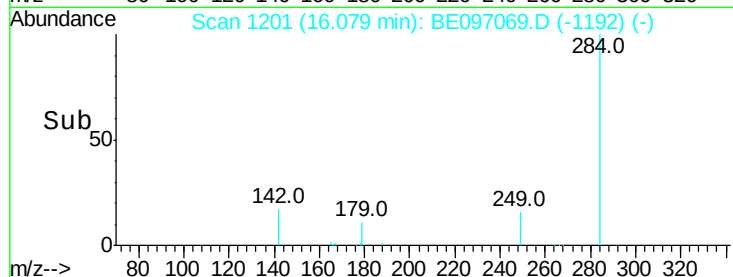
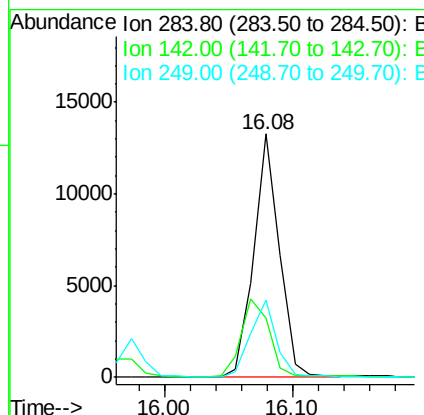
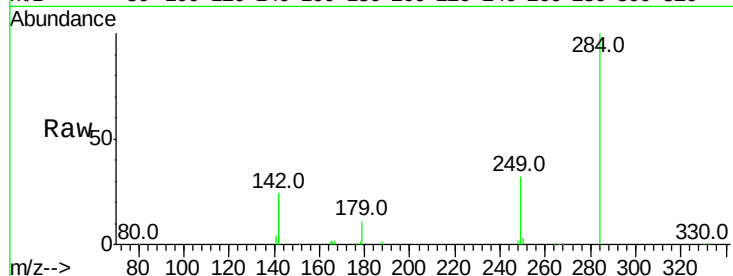




#21  
Hexachlorobenzene  
Concen: 3.361 ng  
RT: 16.08 min Scan# 1201  
Delta R.T. 0.00 min  
Lab File: BE097069.D  
Acq: 24 Jul 2018 11:59

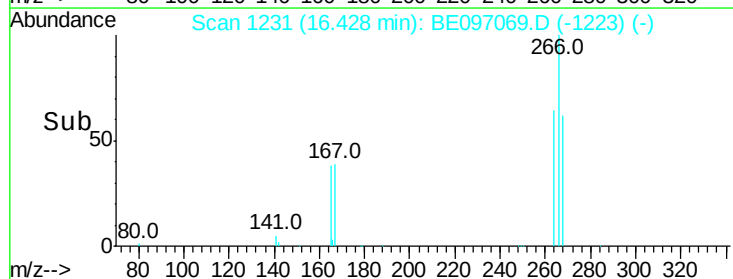
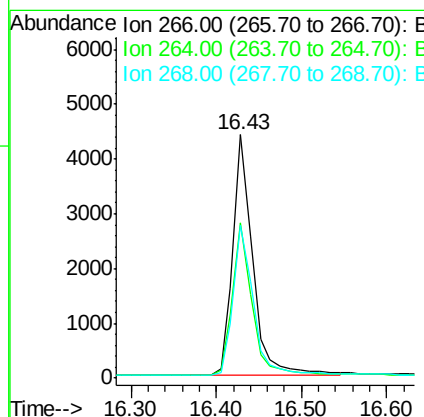
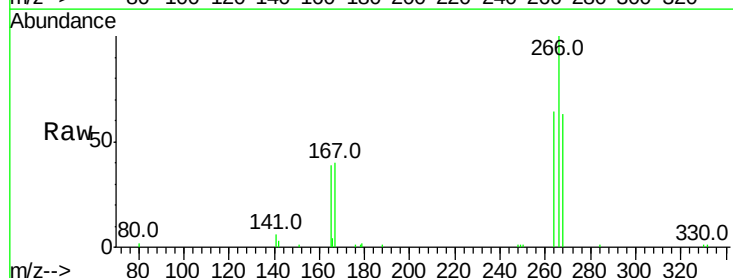
Instrument :  
BNA\_E  
ClientSampleId :

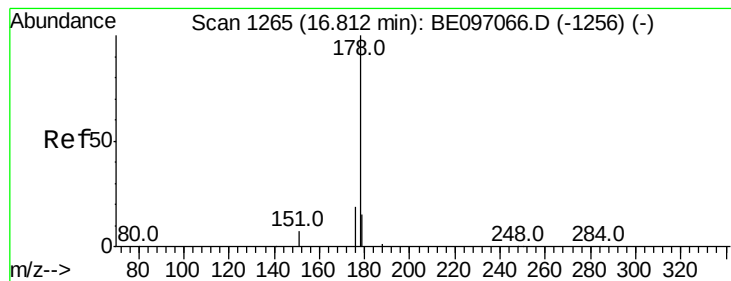
Tot Ion:284 Resp: 18292  
Ion Ratio Lower Upper  
284 100  
142 34.7 22.1 33.1#  
249 31.3 34.8 52.2#



#22  
Pentachlorophenol  
Concen: 8.061 ng  
RT: 16.43 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: BE097069.D  
Acq: 24 Jul 2018 11:59

Tgt Ion:266 Resp: 7198  
Ion Ratio Lower Upper  
266 100  
264 64.0 72.5 108.7#  
268 62.7 73.8 110.6#





#23

Phenanthrene

Concen: 3.463 ng

RT: 16.81 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

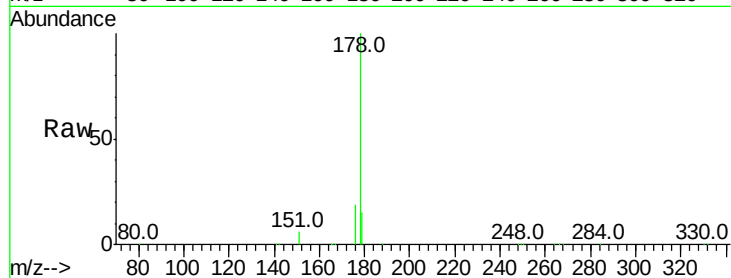
Tot Ion:178 Resp: 85944

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

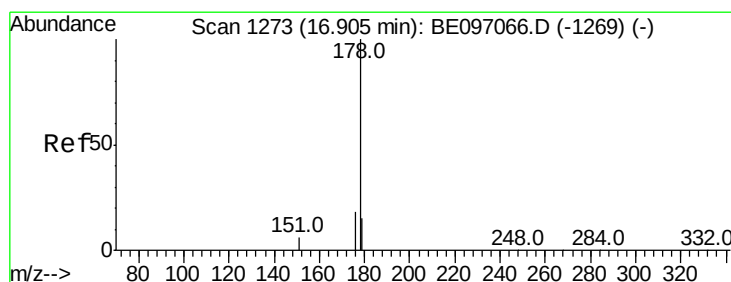
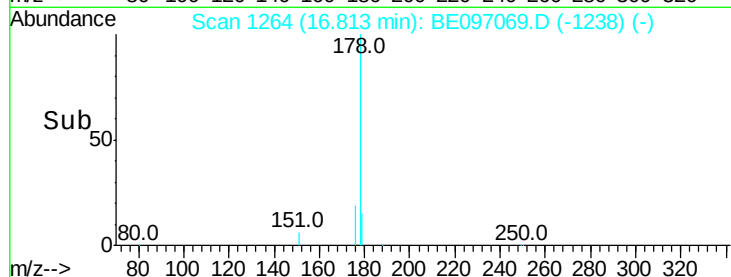
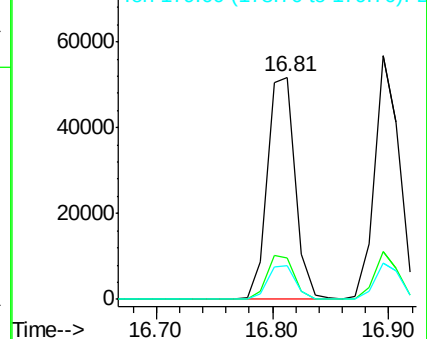
179 15.1 11.8 17.6



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: 3.849 ng

RT: 16.89 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

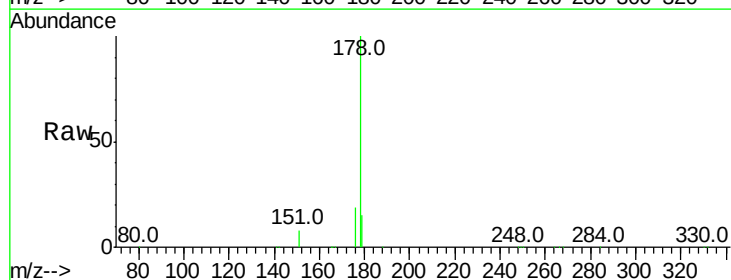
Tgt Ion:178 Resp: 83125

Ion Ratio Lower Upper

178 100

176 18.7 12.8 19.2

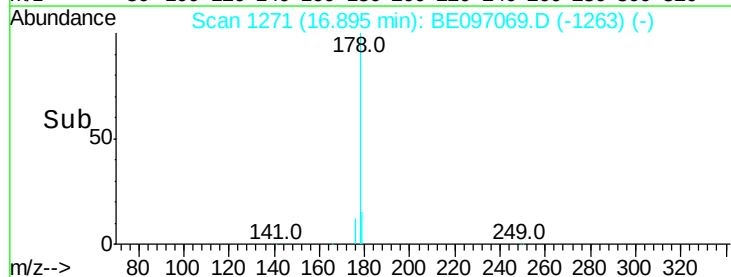
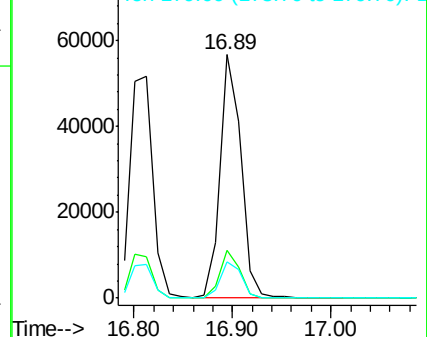
179 15.2 13.0 19.6

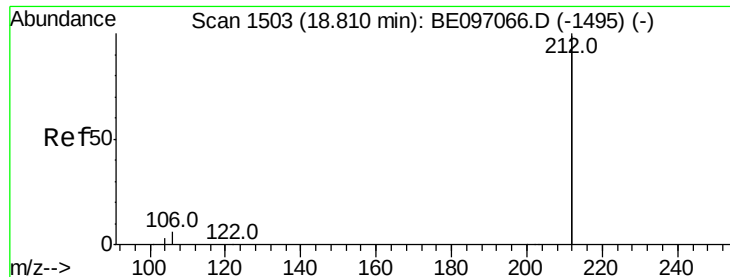


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 4.320 ng

RT: 18.81 min Scan# 1501

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

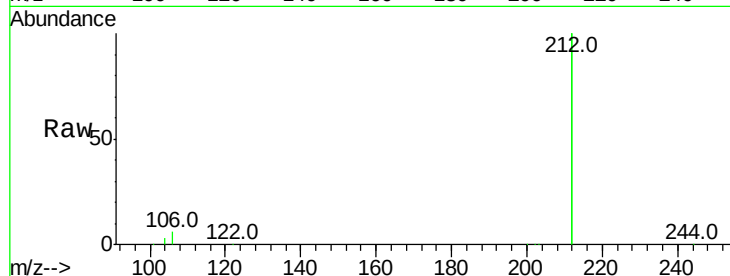
Tot Ion:212 Resp: 389510

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

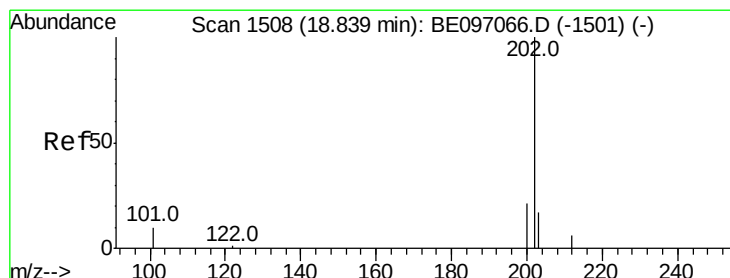
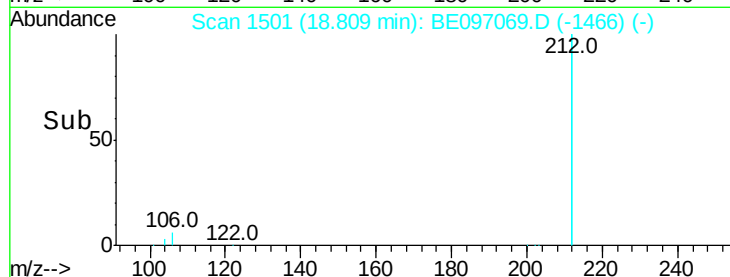
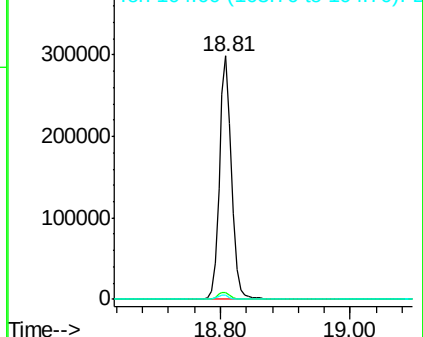
104 1.7 1.6 2.4



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: 3.979 ng

RT: 18.84 min Scan# 1506

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

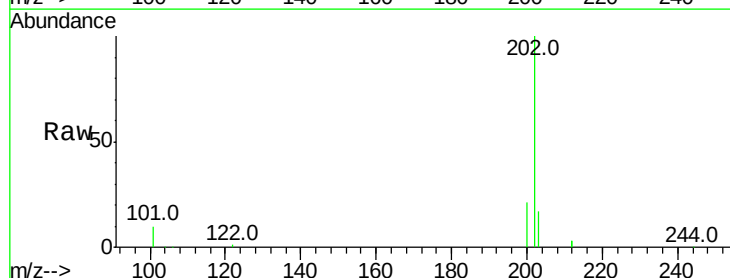
Tgt Ion:202 Resp: 104146

Ion Ratio Lower Upper

202 100

101 10.8 9.8 14.8

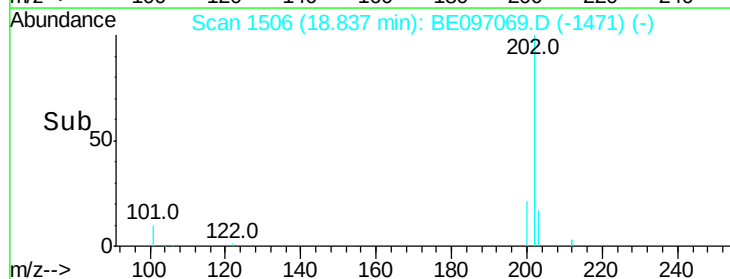
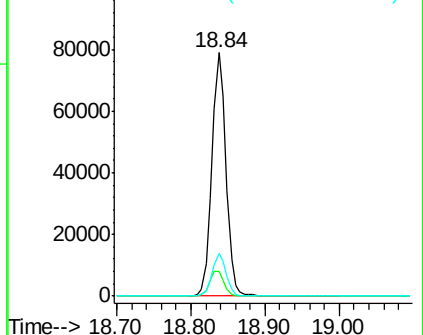
203 17.4 13.7 20.5

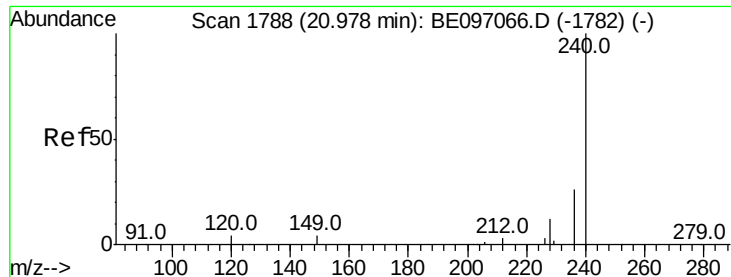


Abundance Ion 202.00 (201.70 to 202.70): E

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# 1786

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

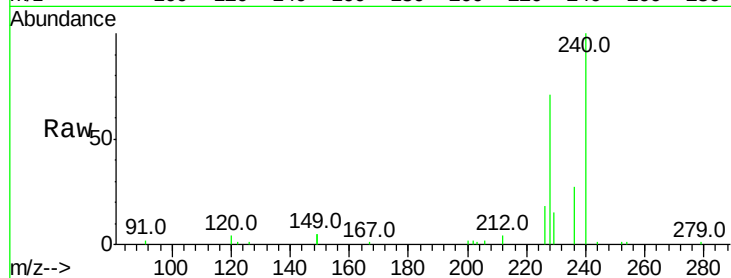
Tot Ion:240 Resp: 11419

Ion Ratio Lower Upper

240 100

120 4.1 5.5 8.3#

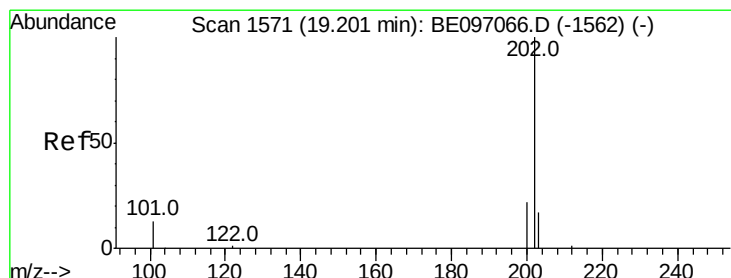
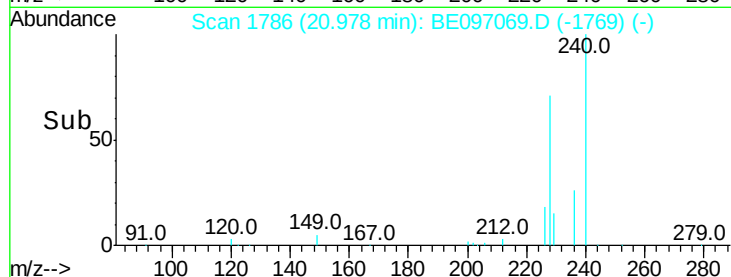
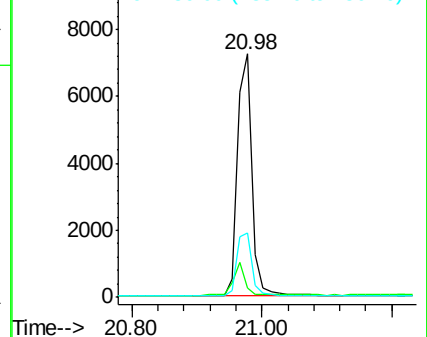
236 26.5 20.7 31.1



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: 3.085 ng

RT: 19.20 min Scan# 1569

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

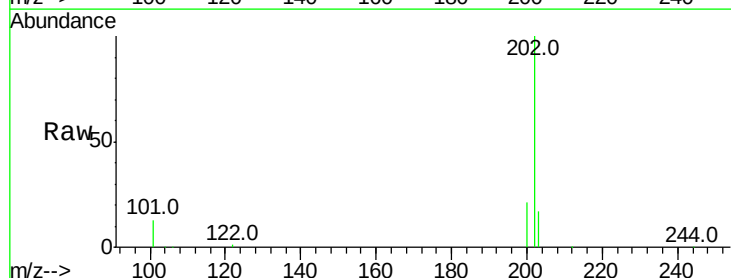
Tgt Ion:202 Resp: 103970

Ion Ratio Lower Upper

202 100

200 21.3 16.6 25.0

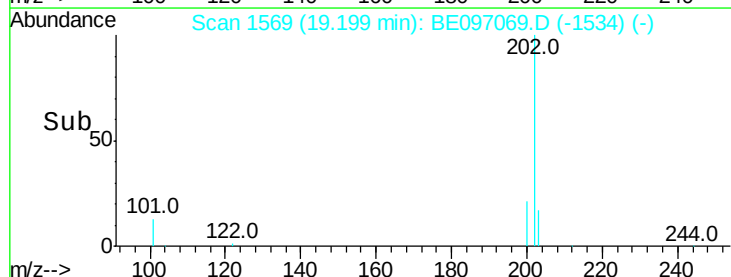
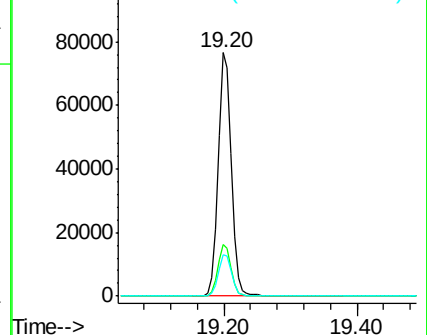
203 17.5 13.8 20.8



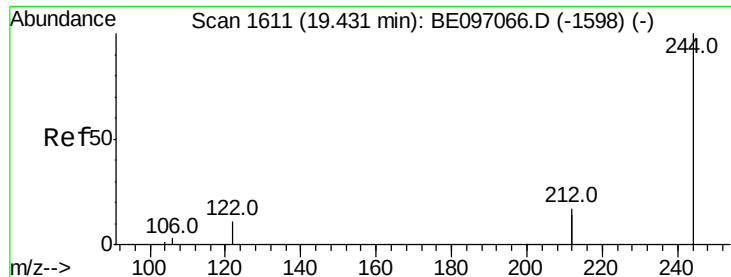
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 3.345 ng

RT: 19.43 min Scan# 1609

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

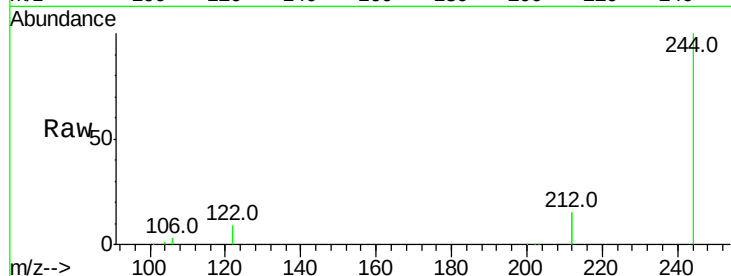
Tot Ion:244 Resp: 73683

Ion Ratio Lower Upper

244 100

212 30.5 25.4 38.0

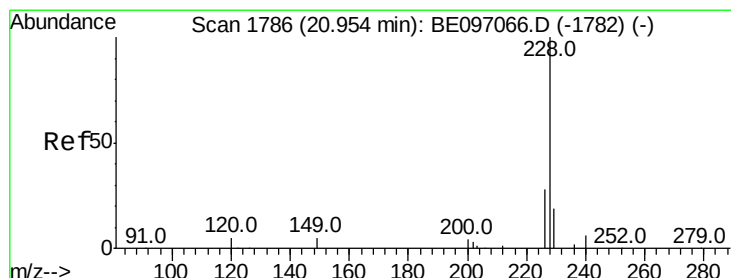
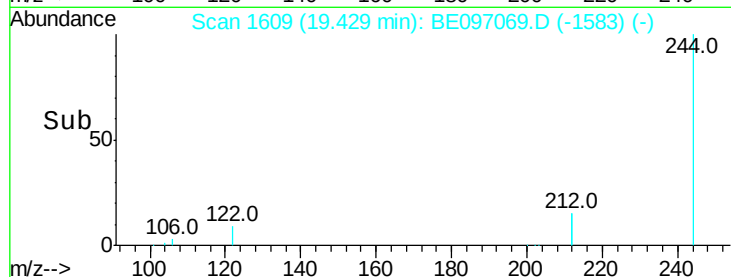
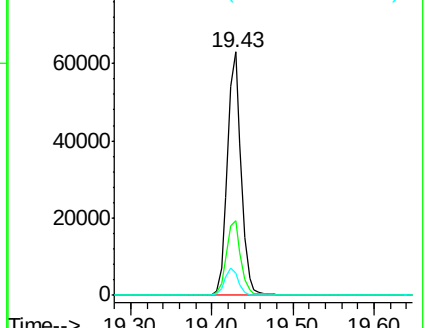
122 9.2 8.1 12.1



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: 3.662 ng

RT: 20.95 min Scan# 1784

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

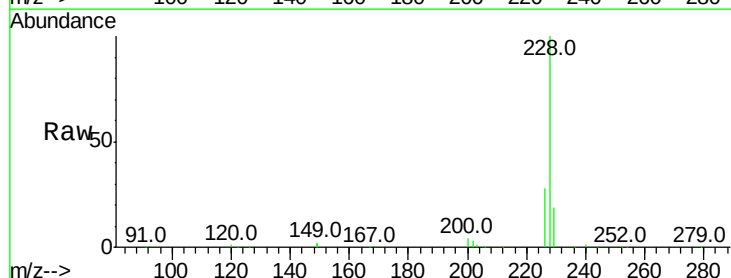
Tgt Ion:228 Resp: 99577

Ion Ratio Lower Upper

228 100

226 27.9 24.0 36.0

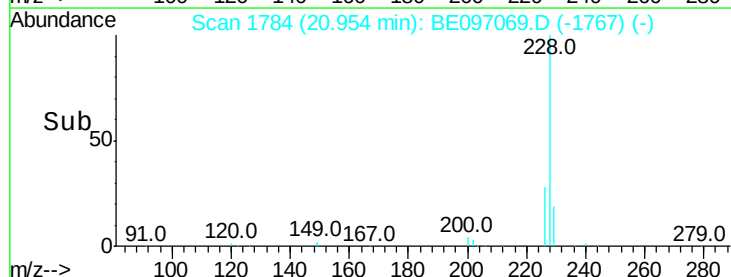
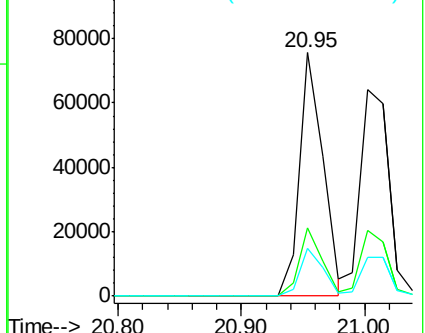
229 19.5 16.0 24.0

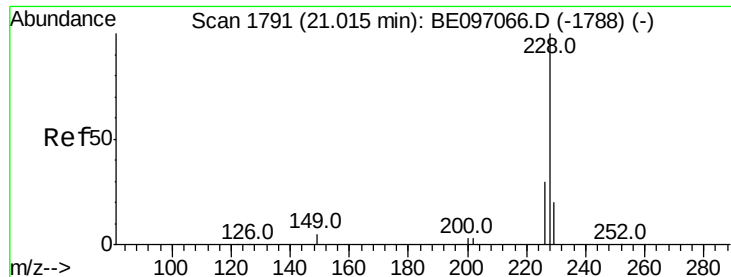


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 3.364 ng

RT: 21.00 min Scan# 1788

Delta R.T. -0.01 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

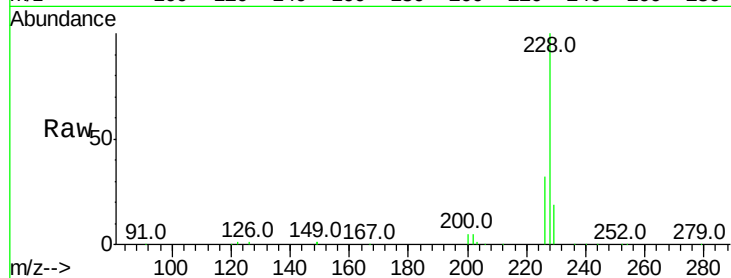
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 102617

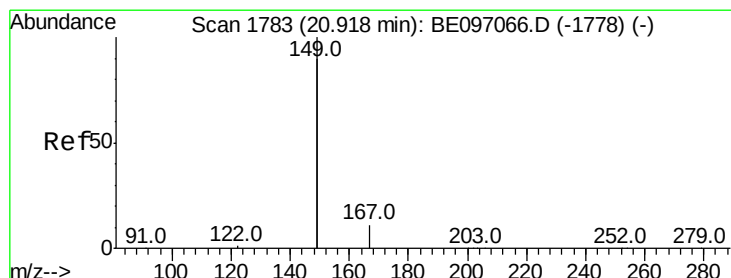
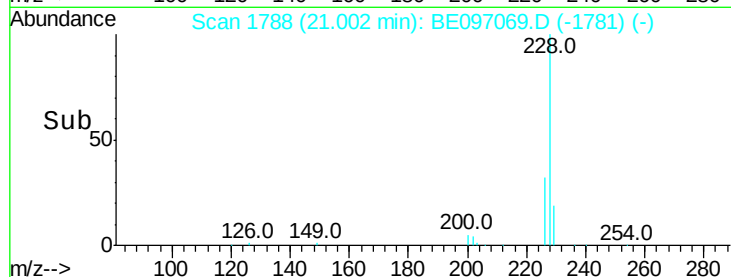
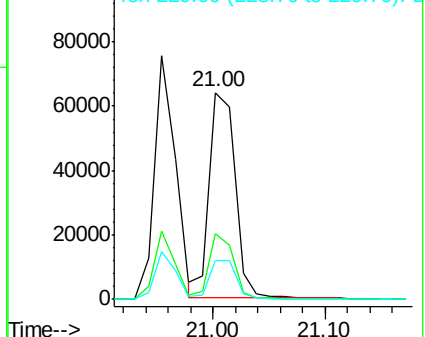
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 32.0  | 24.0  | 36.0  |
| 229 | 19.0  | 16.0  | 24.0  |



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: 5.307 ng

RT: 20.92 min Scan# 1781

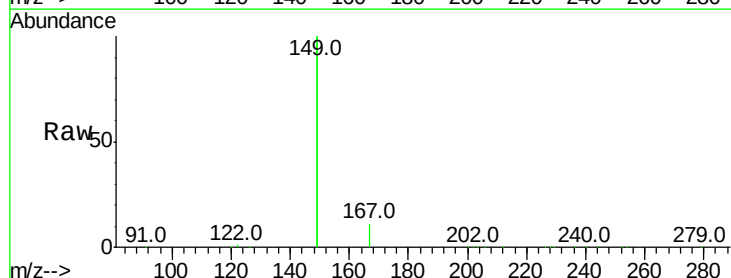
Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Tgt Ion:149 Resp: 144047

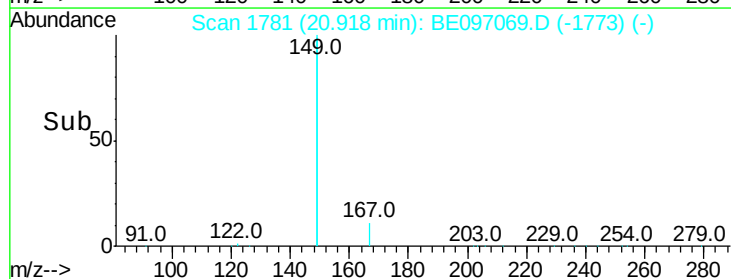
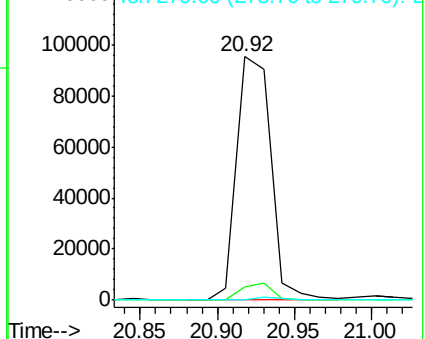
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.3   | 5.4   | 8.0   |
| 279 | 0.9   | 0.7   | 1.1   |

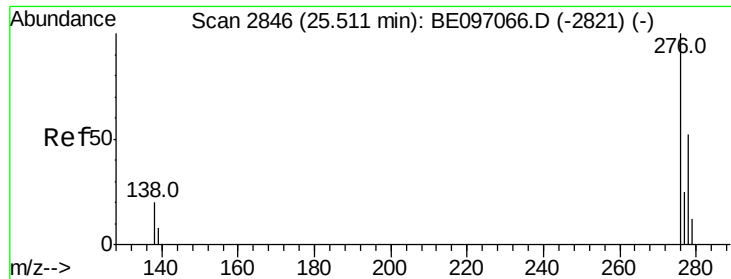


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

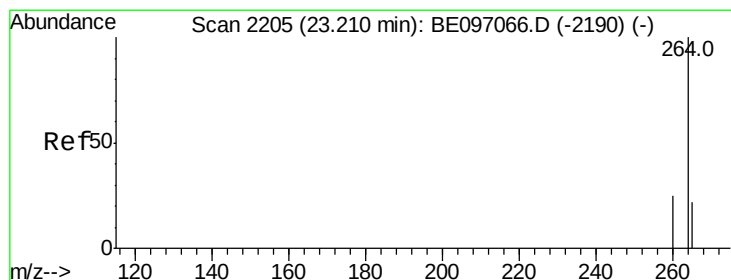
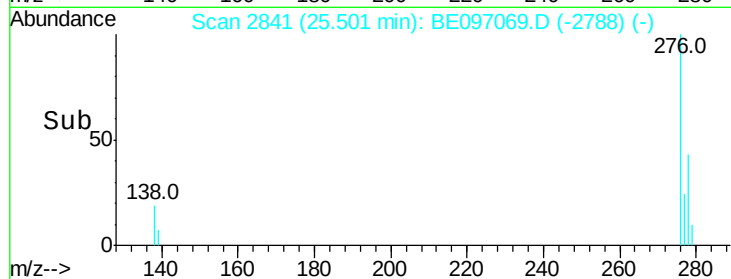
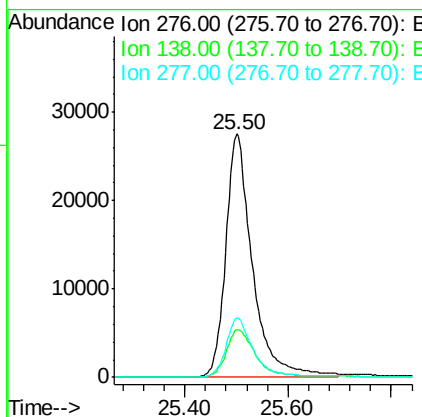
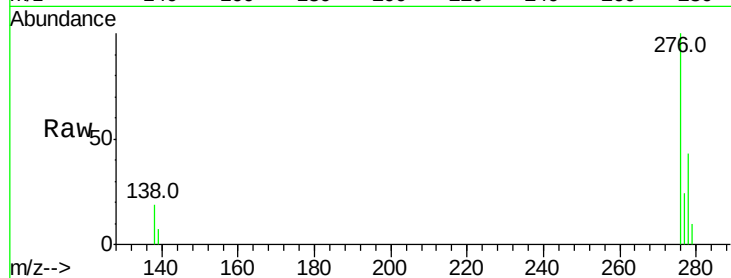




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.423 ng  
 RT: 25.50 min Scan# 2841  
 Delta R.T. -0.01 min  
 Lab File: BE097069.D  
 Acq: 24 Jul 2018 11:59

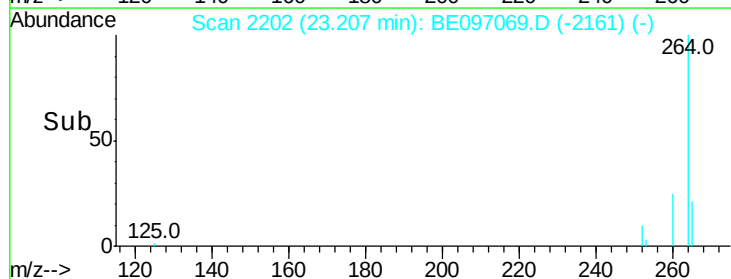
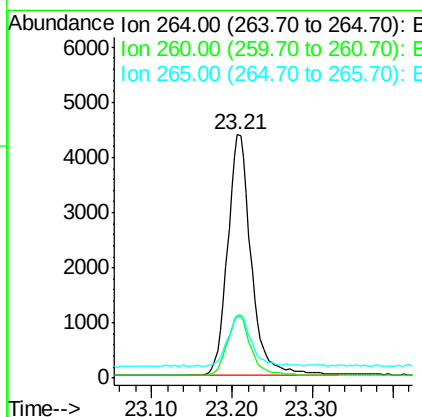
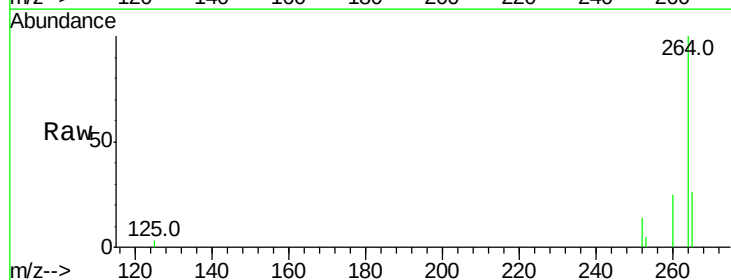
Instrument :  
 BNA\_E  
 ClientSampleId :

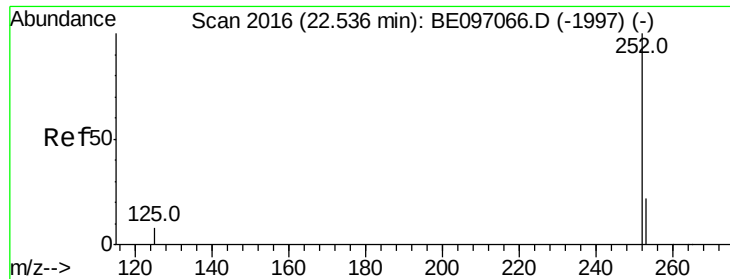
Tot Ion:276 Resp: 98268  
 Ion Ratio Lower Upper  
 276 100  
 138 21.2 22.5 33.7#  
 277 24.7 19.9 29.9



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.21 min Scan# 2202  
 Delta R.T. -0.00 min  
 Lab File: BE097069.D  
 Acq: 24 Jul 2018 11:59

Tgt Ion:264 Resp: 8871  
 Ion Ratio Lower Upper  
 264 100  
 260 25.4 20.5 30.7  
 265 25.8 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 3.702 ng

RT: 22.53 min Scan# 2013

Delta R.T. -0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

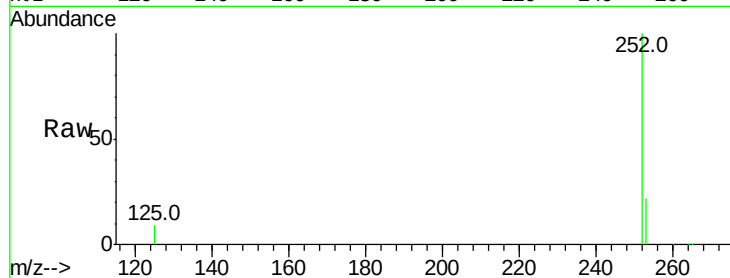
Tot Ion:252 Resp: 83807

Ion Ratio Lower Upper

252 100

253 22.0 20.0 30.0

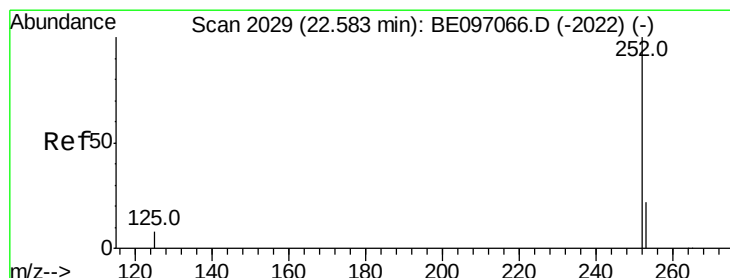
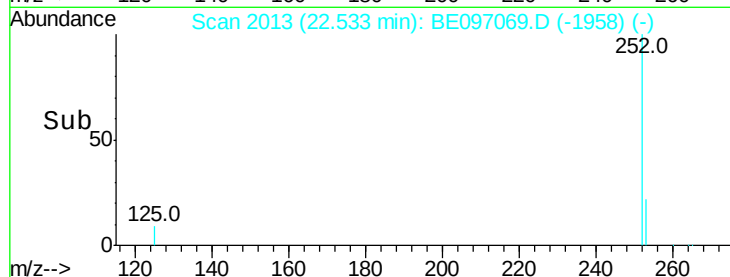
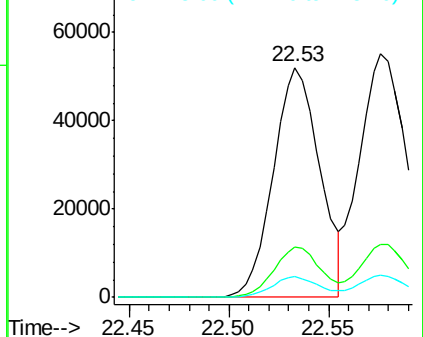
125 9.2 16.0 24.0#



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



#36

Benzo(k)fluoranthene

Concen: 3.632 ng

RT: 22.58 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

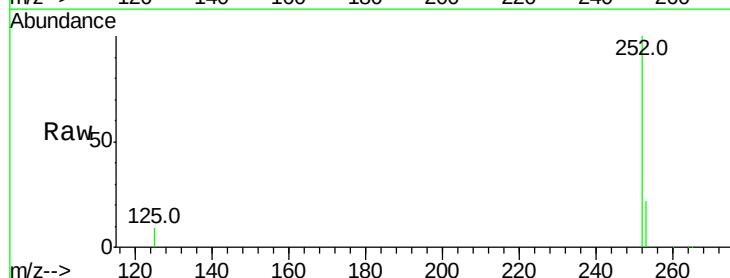
Tgt Ion:252 Resp: 97808

Ion Ratio Lower Upper

252 100

253 21.9 16.0 24.0

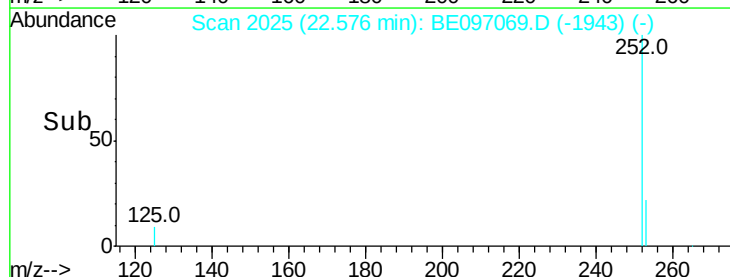
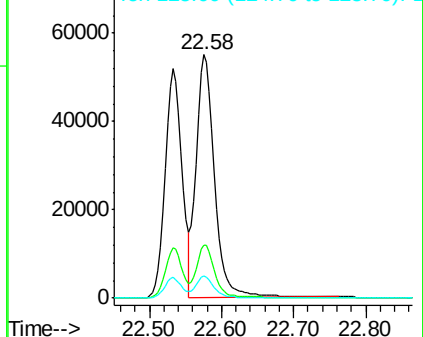
125 9.2 8.0 12.0

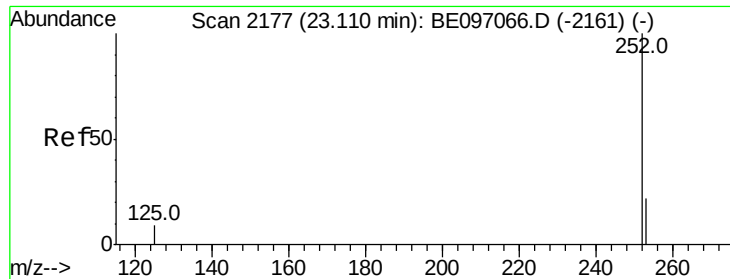


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 3.976 ng

RT: 23.11 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :

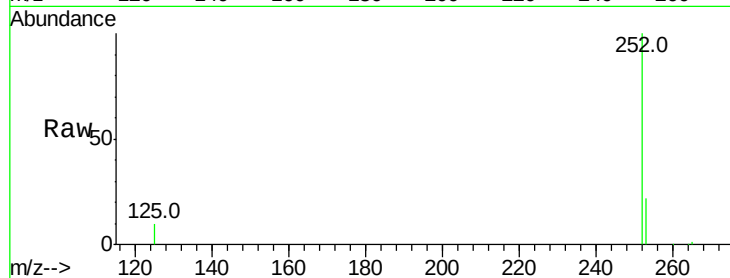
Tot Ion:252 Resp: 80531

Ion Ratio Lower Upper

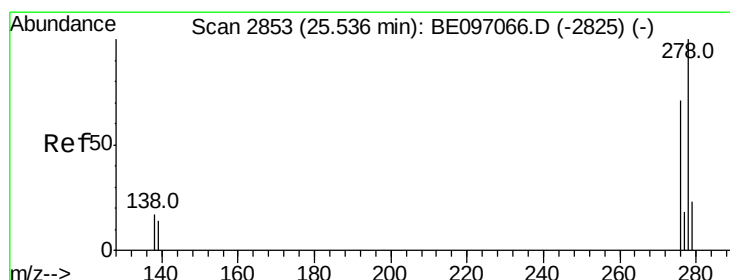
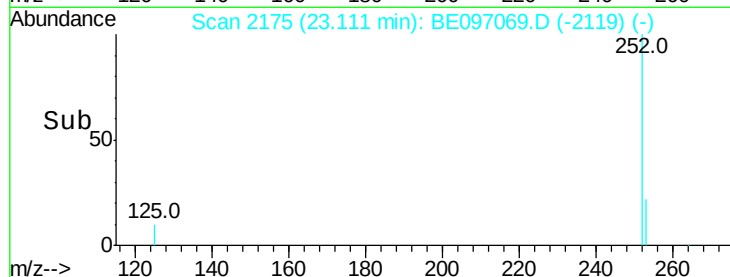
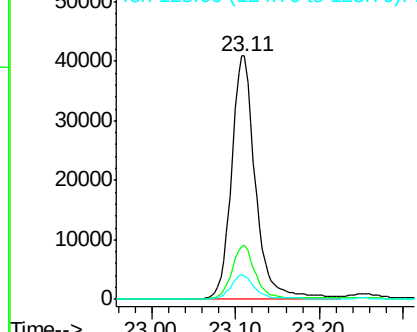
252 100

253 22.2 16.0 24.0

125 9.8 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: 4.973 ng

RT: 25.52 min Scan# 2847

Delta R.T. -0.01 min

Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

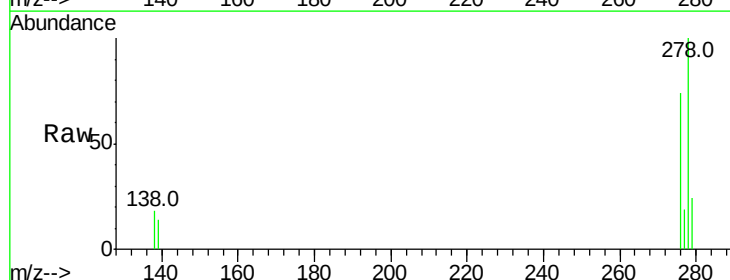
Tgt Ion:278 Resp: 82232

Ion Ratio Lower Upper

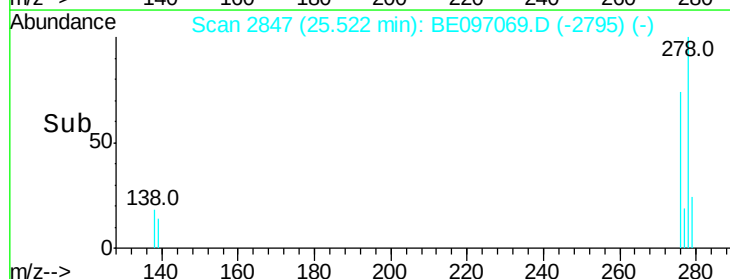
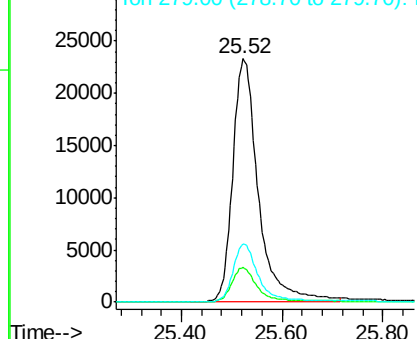
278 100

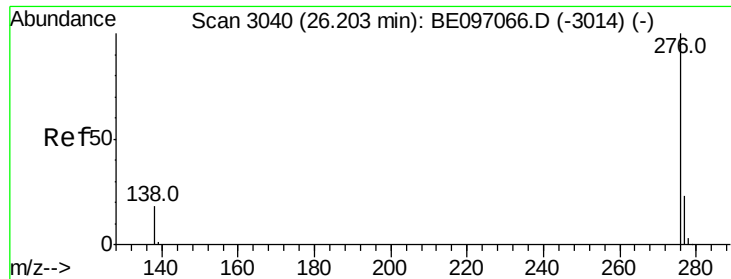
139 14.3 16.0 24.0#

279 24.0 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: 4.497 ng

RT: 26.19 min Scan# 3035

Delta R.T. -0.01 min

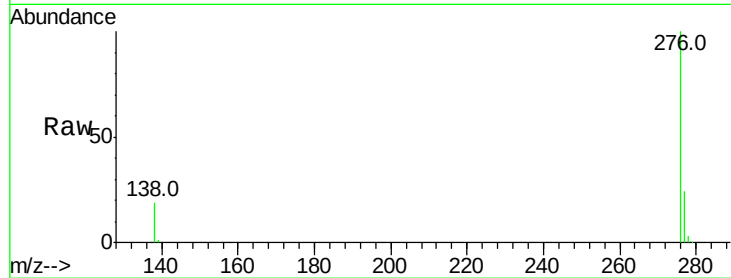
Lab File: BE097069.D

Acq: 24 Jul 2018 11:59

Instrument :

BNA\_E

ClientSampleId :



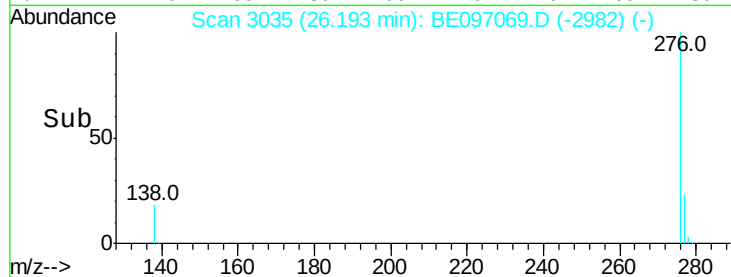
Tot Ion:276 Resp: 82773

Ion Ratio Lower Upper

276 100

277 23.7 16.0 24.0

138 18.6 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

