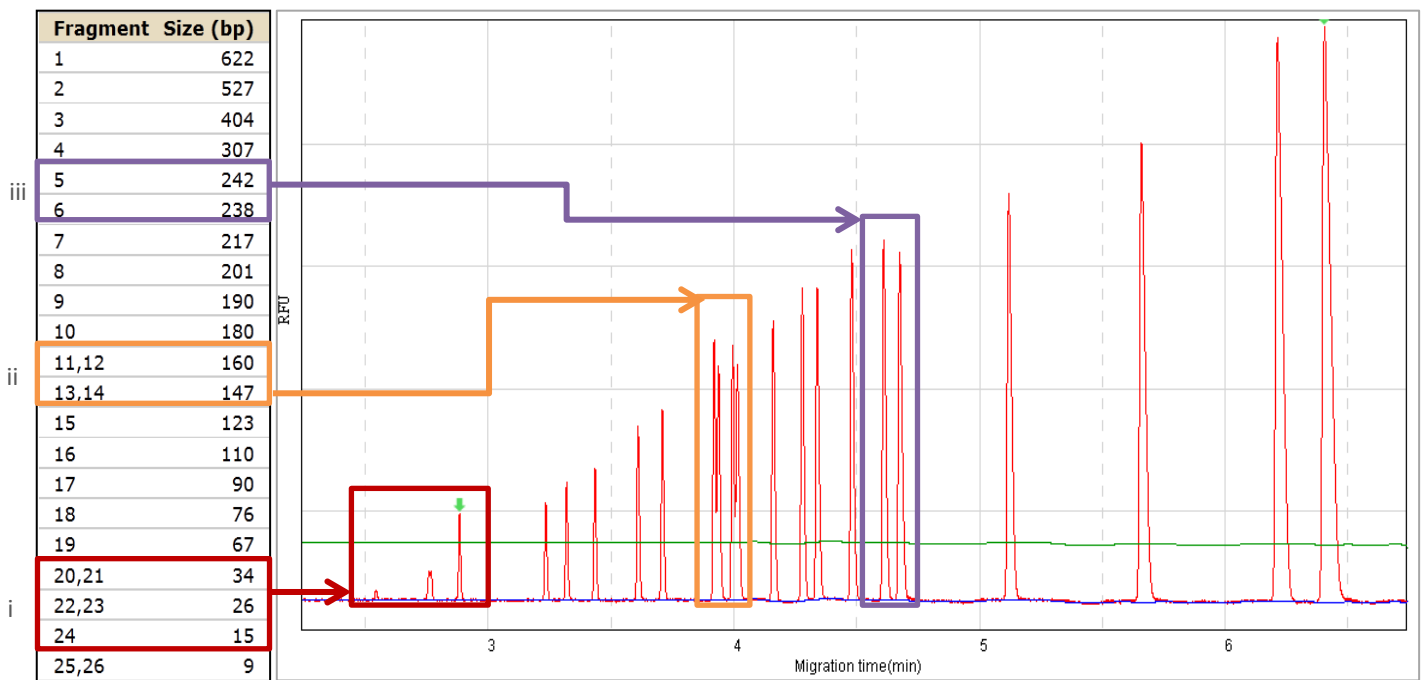


High Resolution

Purpose: Demonstrate the resolution and the ability to separate the dsDNA fragments with same sizes but different sequences.

Ability:

1. Qsep100 highlights the restriction map of pBR322-MspI digestion.
 - i. dsDNA fragment shorter than 67bp can be clearly monitored, but can't be detected by traditional agarose electrophoresis. (15bp concentration=0.069ng/ml)
 - ii. dsDNA with different sequence, 169/160 and 147/147, can be well resolved in two peaks.
 - iii. DNA fragments of 238 bp, 242 bp can be separated into two isolated peaks.



2. Qsep100 demonstrates the resolution of 2bp among the DNA pairs with up to 5 bp difference.

