Starting with our July 20 run (SA11031) we noticed shorter-than-expected read lengths. This resulted in extensive trouble shooting, fixes to hardware, and ultimately realization that a particular sequencing kit lot was also not optimal.

Typical example size distributions from a ~500-600 bp amplicon library are shown here:
1) UT instrument, sample CCHIP, kit lot #93833820, before hardware was fixed, run SA11031:
2) Non-UT instrument, sample CCHIP, kit lot #93833620, run SA11037:
3) UT instrument, sample CCHIP, kit lot #93833620, after hardware was fixed, run SA11042:

![Frequency vs. time chart](JA11128_CCHIP_RL28.fna)
4) UT instrument, sample CCHIP, kit lot #93846120, after hardware was fixed, run SA11045:

![Graph](JA11128_CCHIP_RL28.fna)
Another example, genomic DNA fragment sample:
1) Non-UT instrument, old lot (93833620):

```
JA11152_HFLAV_RL20.fna
```

![Graph of Frequency vs. f](image-url)
2) UT instrument, after hardware fixes, new lot (33846120):