

**Supplementary Figure 5**: **Verification of detection power calculation.** Comparison between the predicted detection power of 18 replicates and the actual fraction of those replicates that were called MRD+. 18 independent samples from a 1:100k dilution were probed with a 488 SNV panel (see methods). Replicates had their duplex consensus reads downsampled in increments of 10% and detection power was recalculated. Reported are the median and range of predicted detection powers for all replicates at each downsampling.