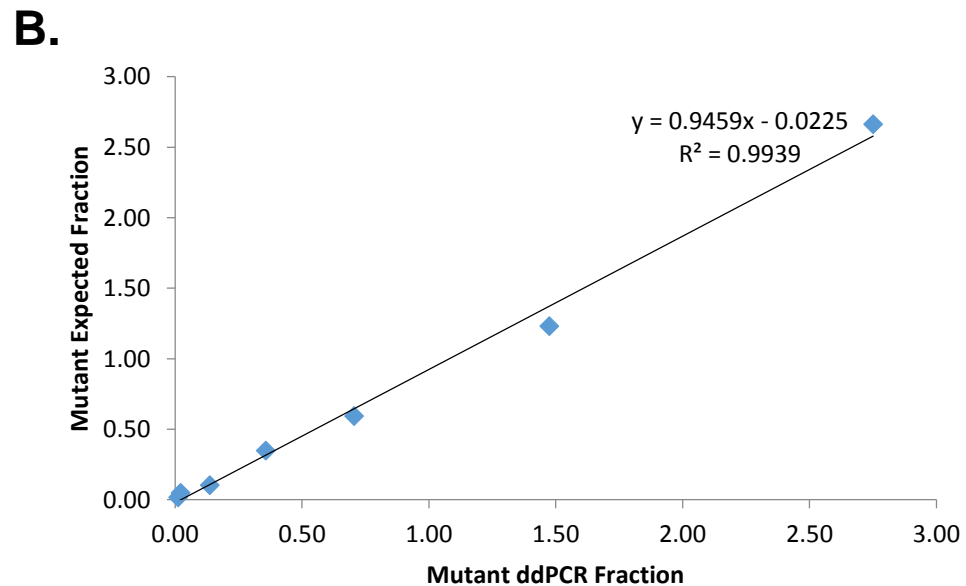
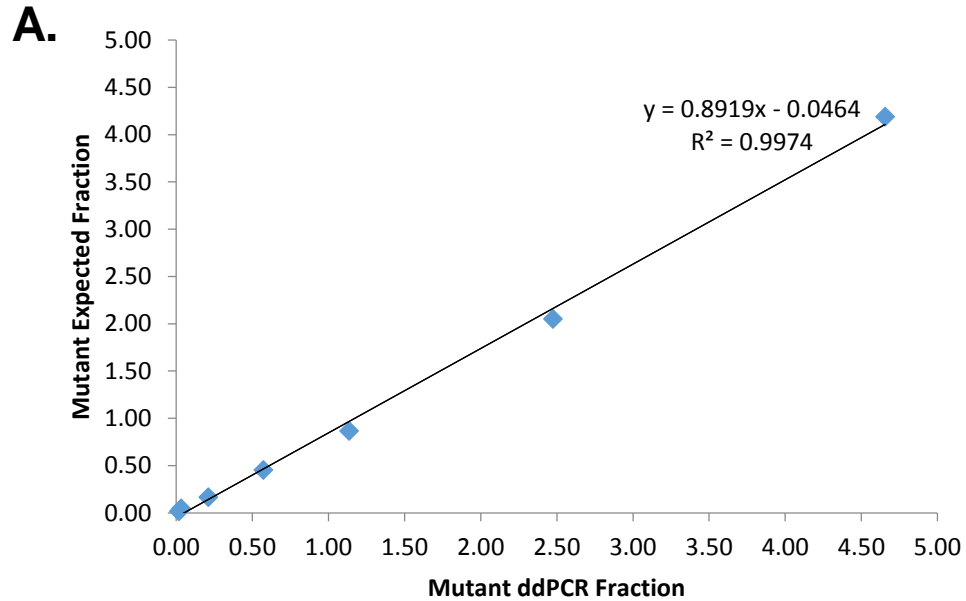


S1 Fig.



**S1 Fig.** DdPCR assay linearity and accuracy determination for ctDNA detection and quantification: TP53 mutation; Chr17: 7577535; G>A and PTEN mutation; Chr10: 89717717; C>T. Assay linearity was determined by analyzing serial dilutions of tumor allele fraction. The lower limit of detection for each assay was established by spiking serial tumor DNA dilutions in a base of 50,000 genome equivalents from the patient's germline DNA. Mutation fraction was detected as low as 0.02% for each assay. For both assays, the mutant copies detected by the ddPCR system were supported by an  $R^2$  of 0.99. (A) TP53 mutation; Chr17: 7577535; G>A (B) PTEN mutation; Chr10: 89717717; C>T