

When A>C and C>G somatic variants are used – e.g., those identified through WES – then the background appears to be close to 0.01% VAF with limited to no error correction (and avoiding C>A, C>T, and A>G may be helpful). This suggests that 0.2% tumor content sensitivity may be feasible without error correction and that 0.02% tumor content (or even lower) sensitivity may be attainable with additional error correction and sequencing using about 20 somatic variants per sample. On a 4-color HiSeq with patterned flow cells, A>T somatic variants also appear to have a relatively low background. We do not know if the same holds true for 2-color platforms.