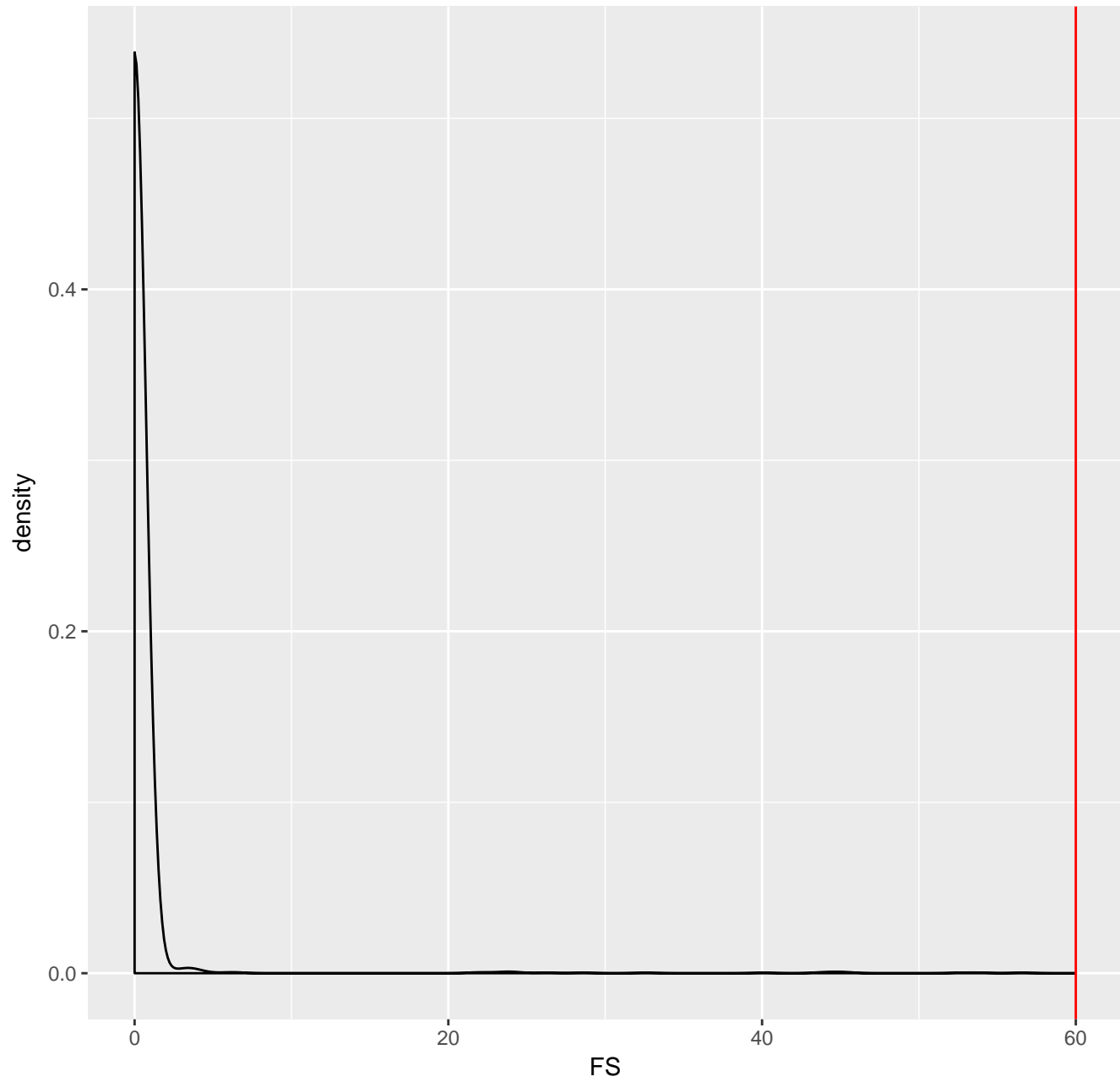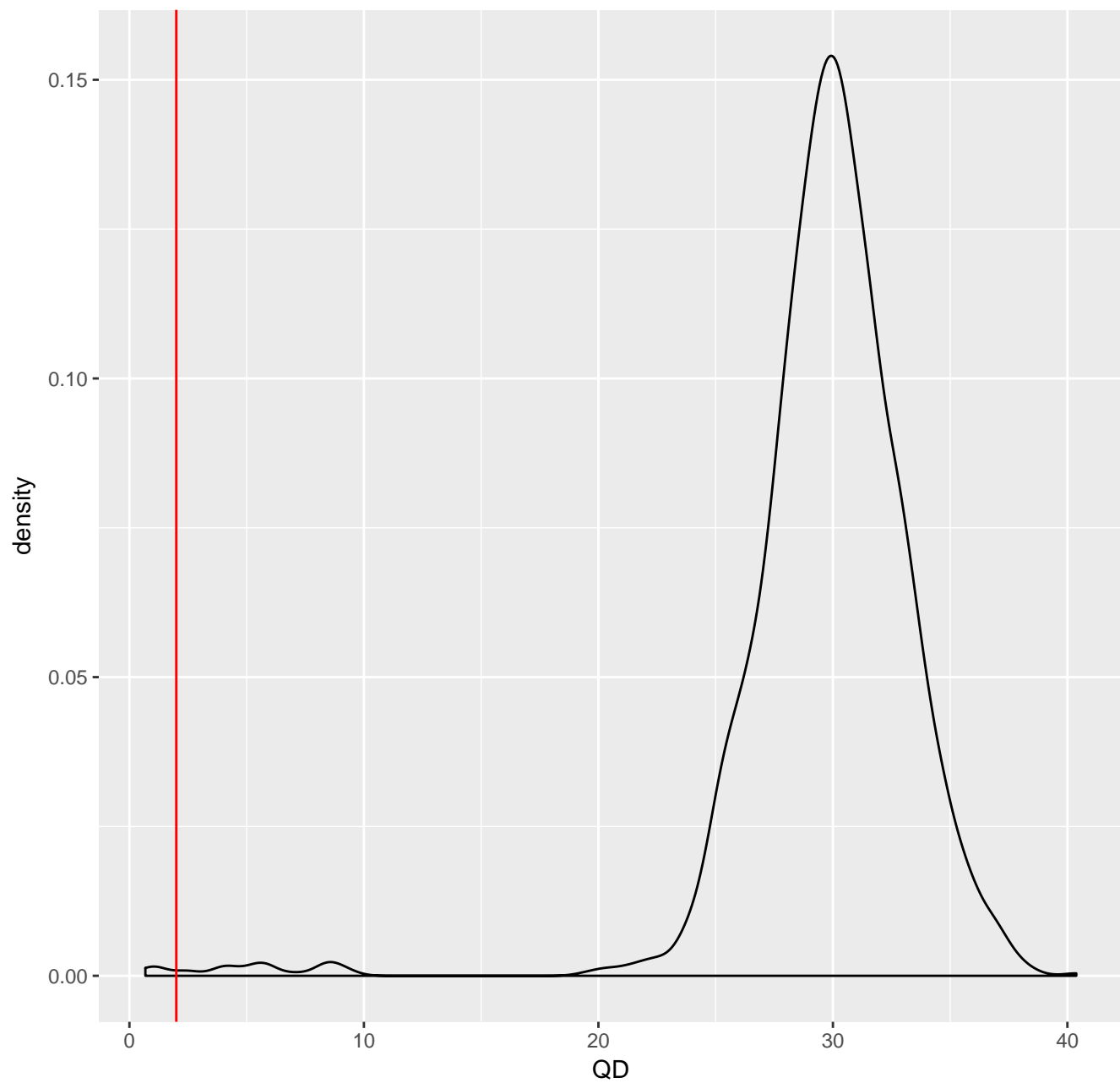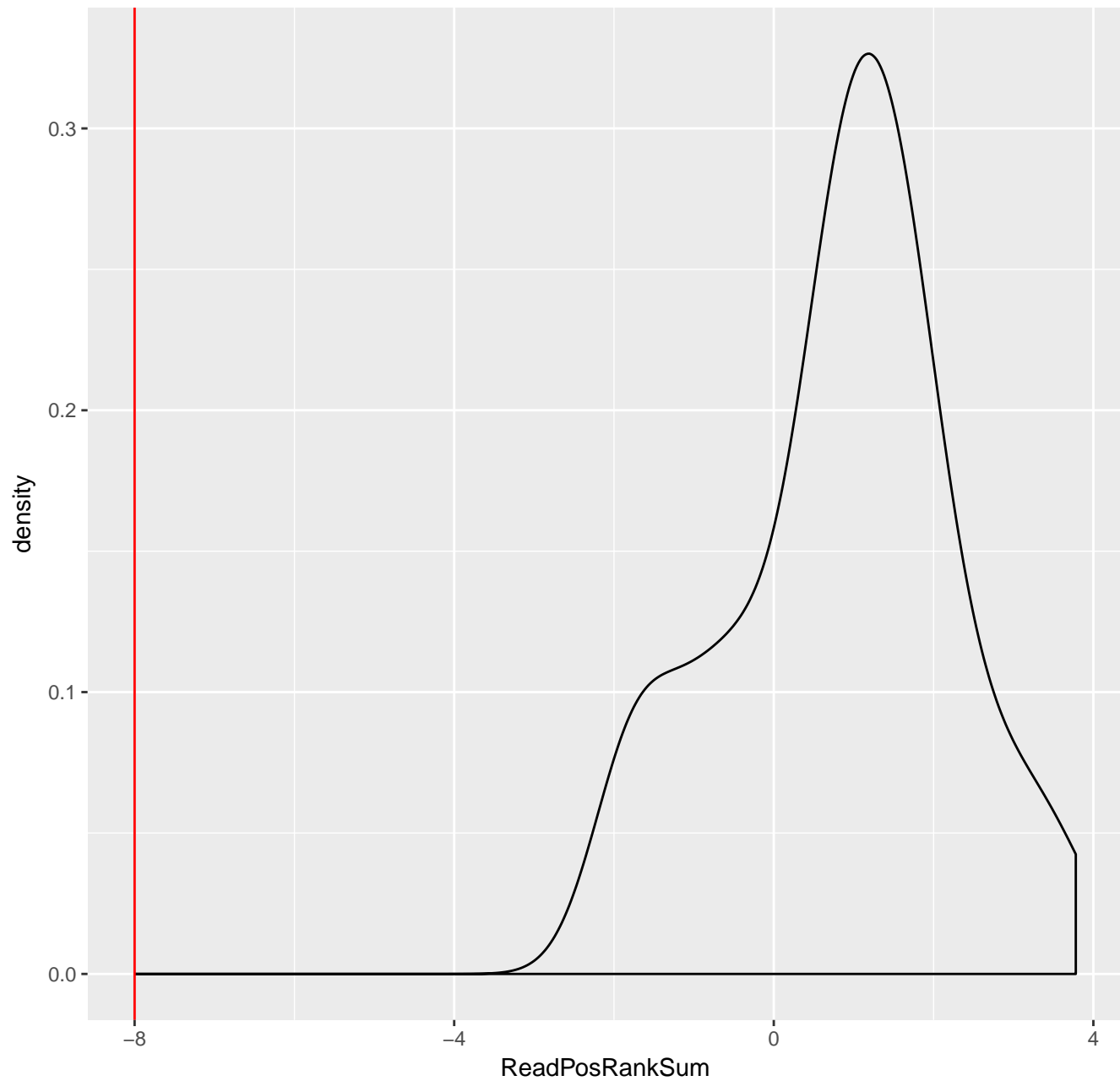Fisher Strand (FS– Strand Bias Variant on F or R) – Greater than 60 removed
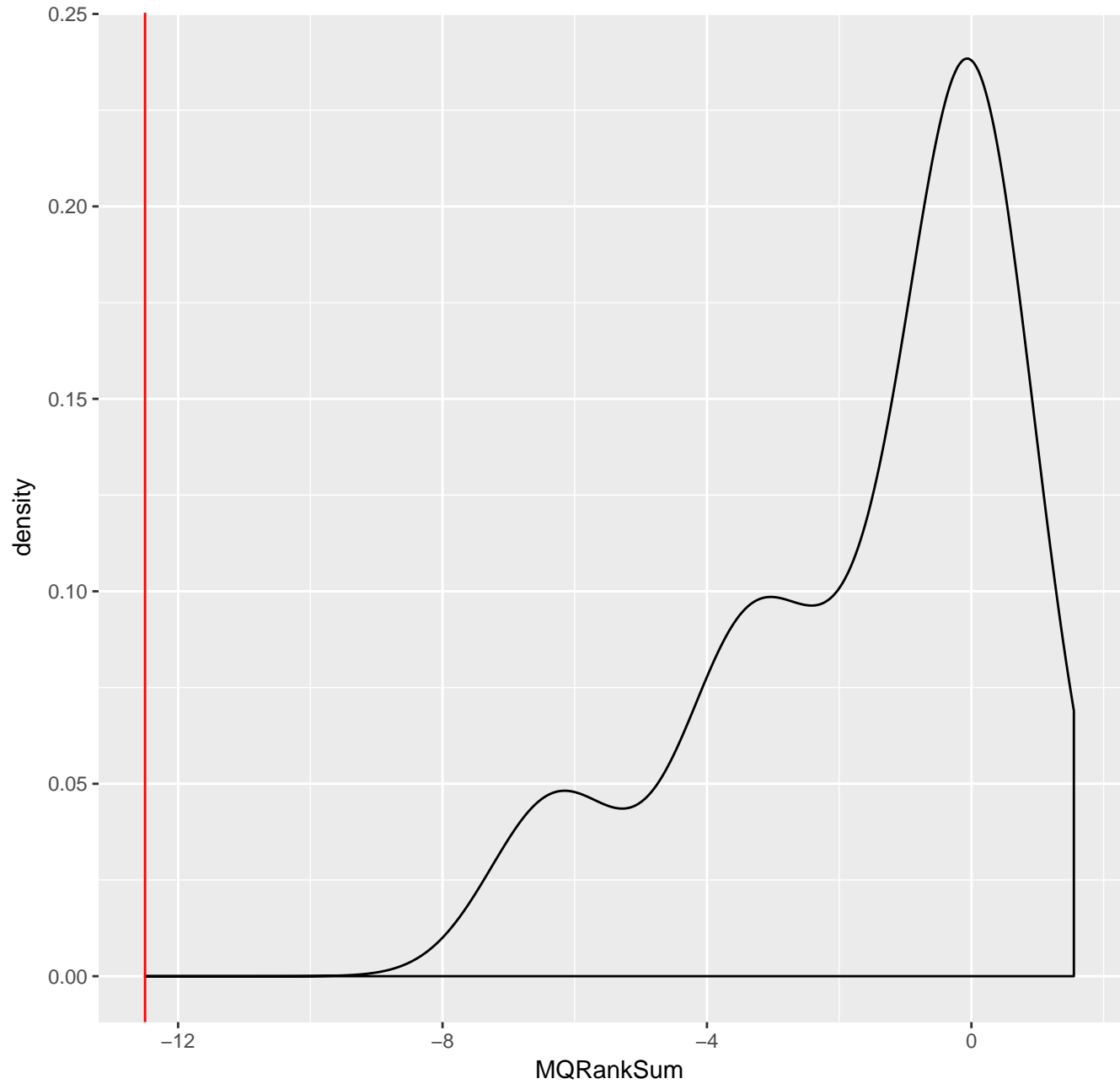
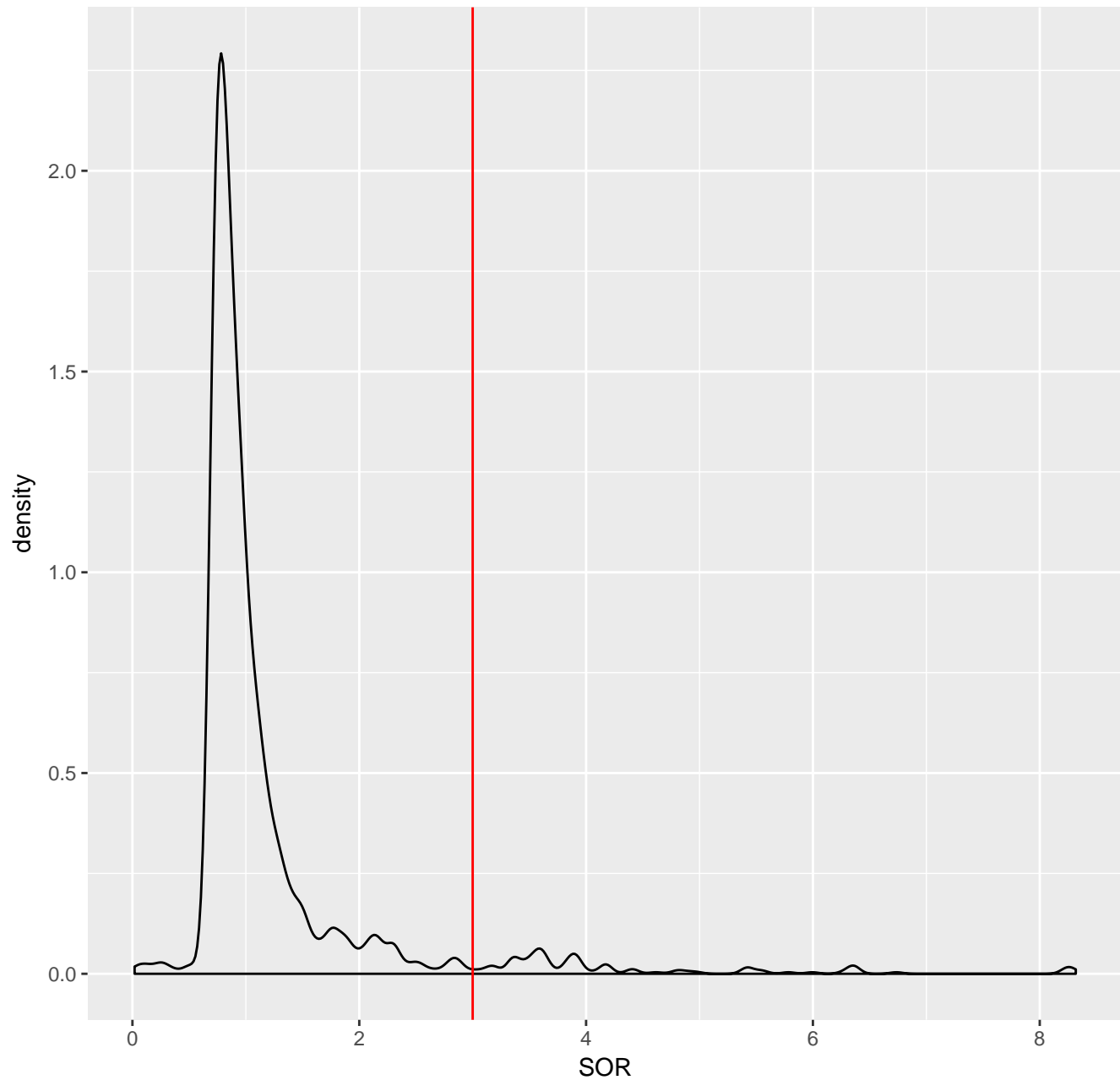QD – variant qual/unfiltered depth – Below 2 removed

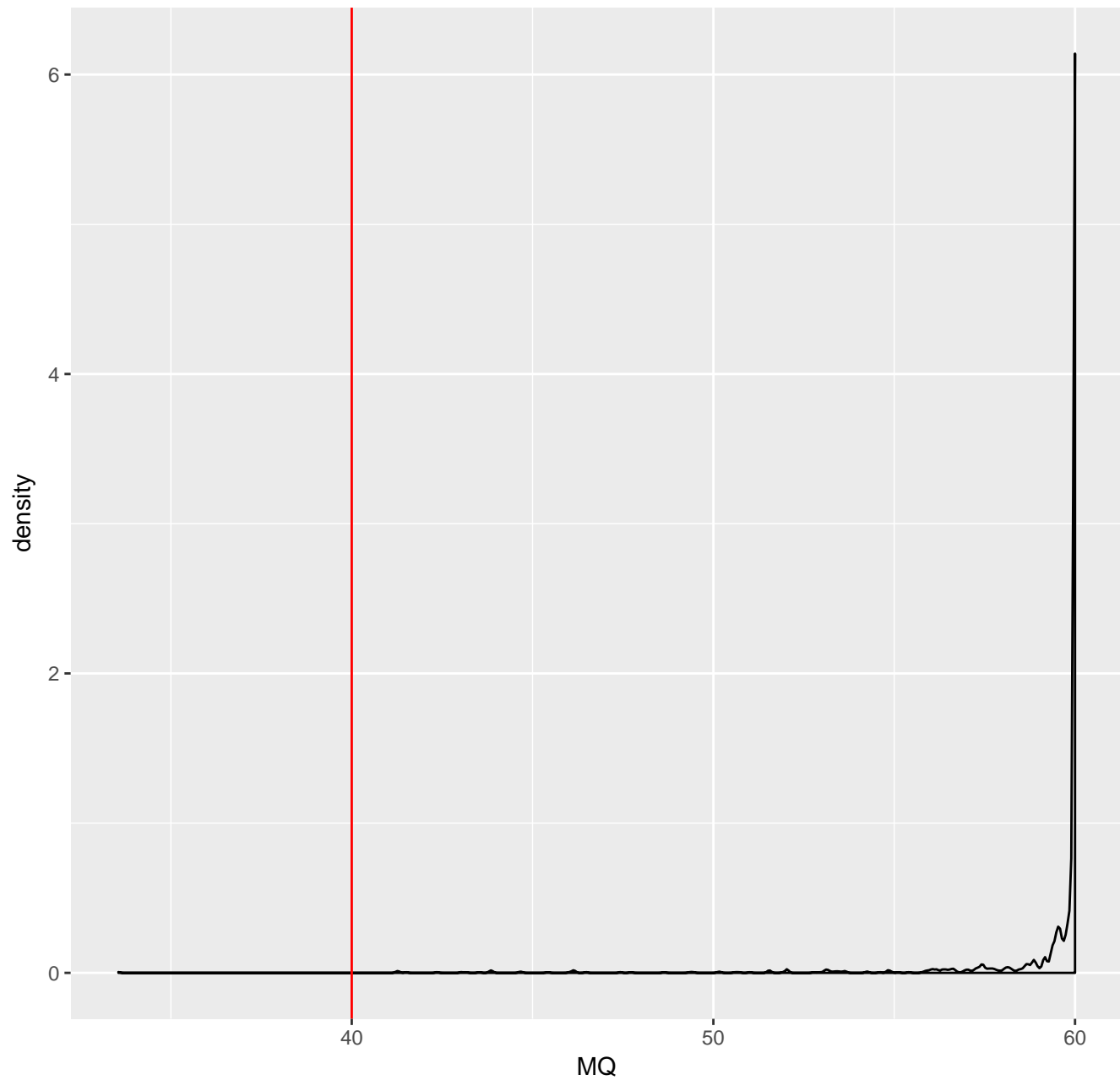ReadPosRankSum – Negative values indicate ALT near ends (cutoff –8)

MQRankSum of Mapping Quality – Negative values indicate ALT near ends (−12
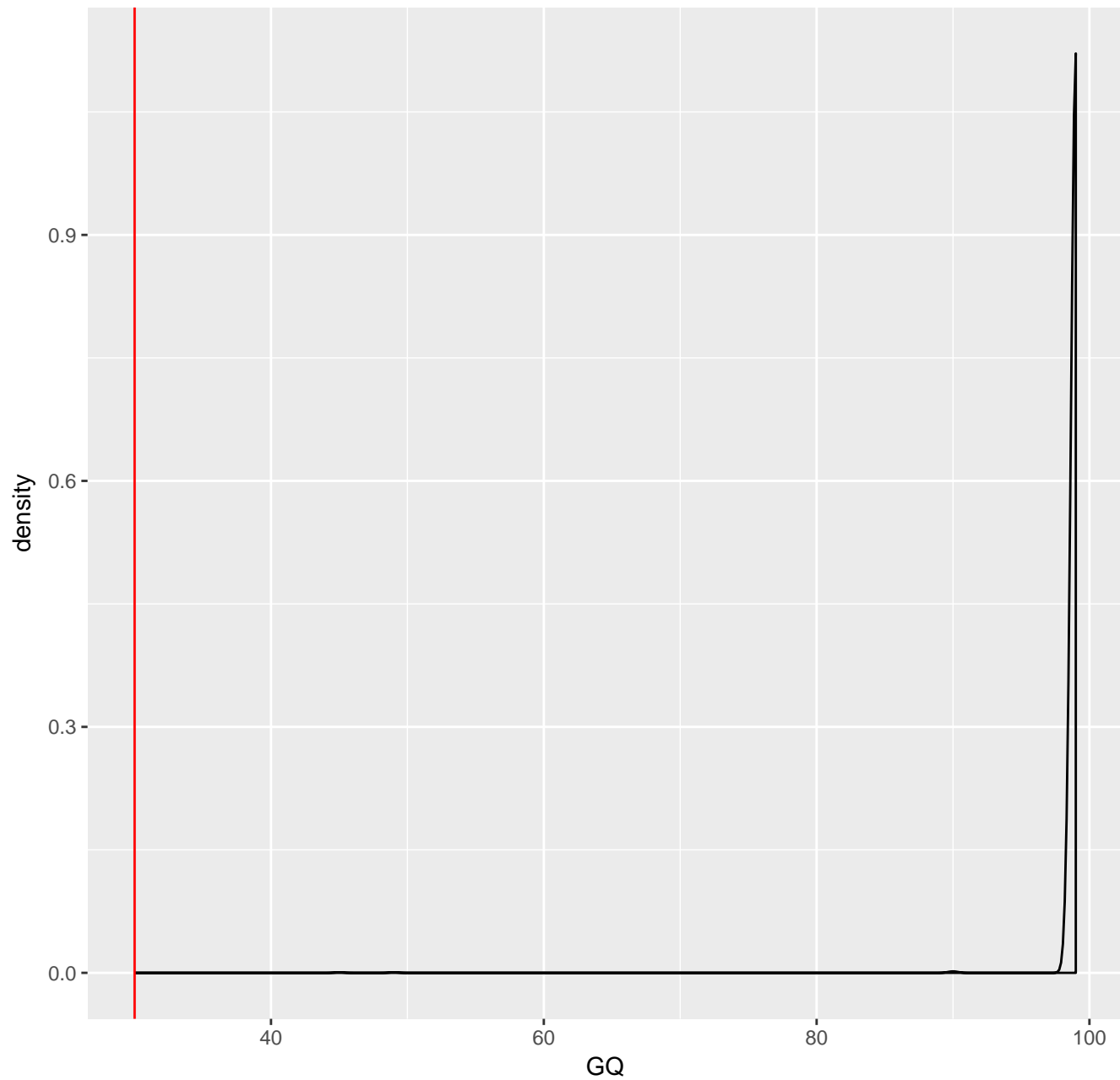
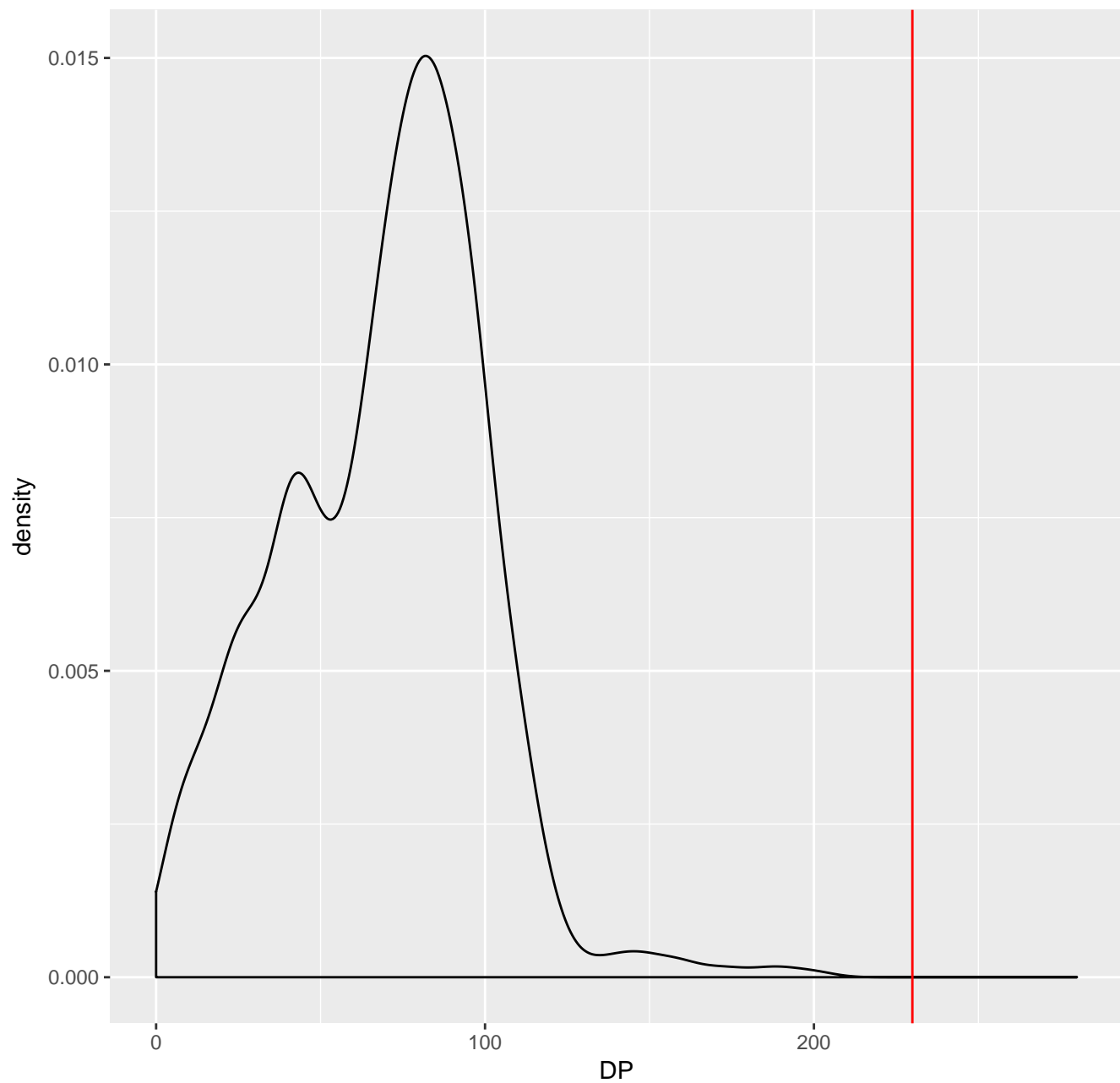StrandOddsRatio (SOR) – Greater than 3 shows strand bias

Root Mean Square Error Mapping Quality (MQ) – Less than 40 removed

GQ– Genotype Quality (Phred score) – No current cutoff

DP– Depth – Red line drawn at Mean + 5*STDEV

Depth Statistics

	mean	SD	mean_plus_5xSD
1	69.3084931506849	32.1251264448683	229.934125375026