

**Table S1: Performance details of ultra-sensitive *P. falciparum* and *P. vivax* qPCR assays and efficiencies of plasmid standard trendlines generated at 3 different study sites.**

<b>Assay</b>	<b>Country</b>	<b>Slope</b>	<b>Intercept</b>	<b>Efficiency</b>	<b>R2</b>
<i>Pf</i> _varATS	Thailand	-3.3	41.1	101.0%	0.99
<i>Pf</i> _varATS	Brazil	-3.5	42.8	93.1%	0.95
<i>Pf</i> _varATS	PNG	-3.7	43.5	86.3%	1
<i>Pv</i> _mtCOX1	Thailand	-3.3	37.1	101.0%	1
<i>Pv</i> _mtCOX1	Brazil	-3.2	37.7	105.4%	0.99
<i>Pv</i> _mtCOX1	PNG	-3.3	37.1	101.0	0.99