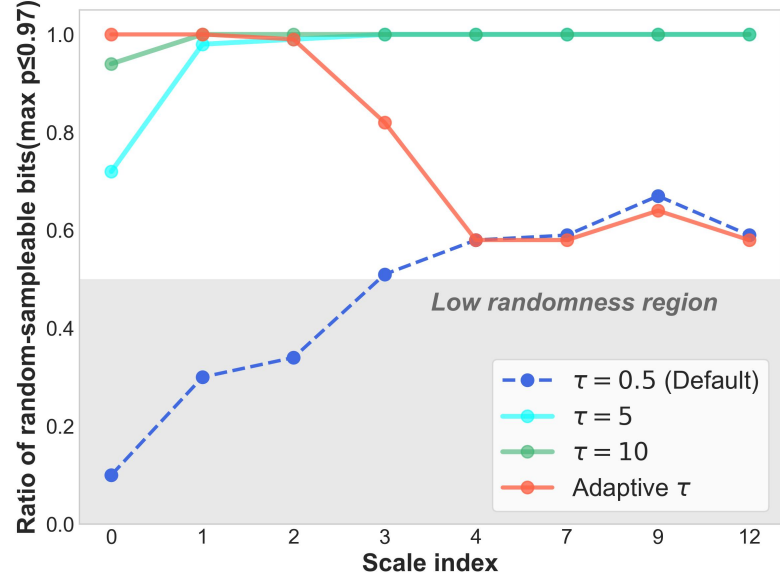(a) Probability density of output probabilities at different scales    (b) The proportion of bits exhibiting randomness across different scale