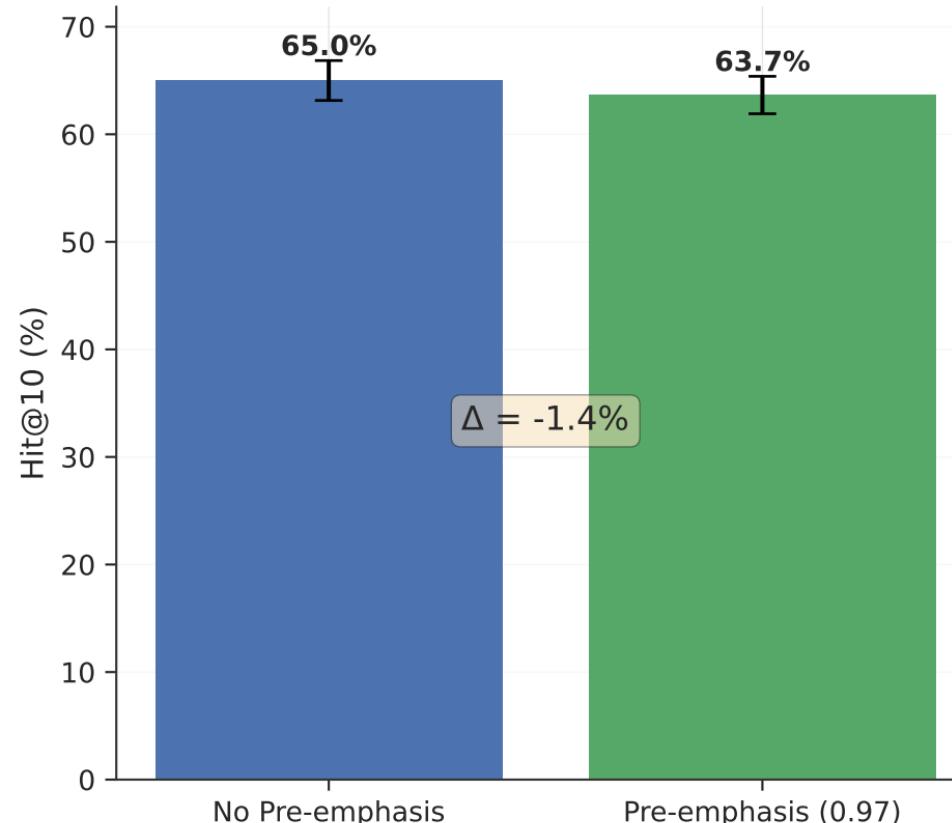
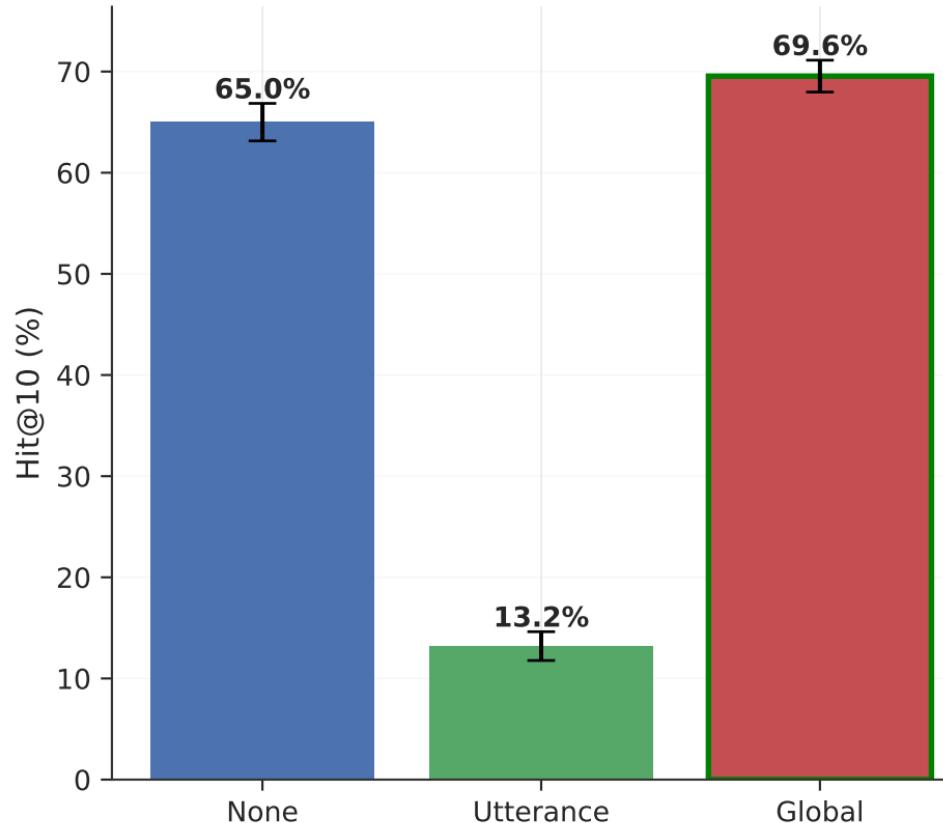


# Ablation Studies: Component Impact Analysis

**(a) Pre-emphasis Effect**



**(b) CMVN Mode Comparison**



**(c) Mel-scale Formula**

