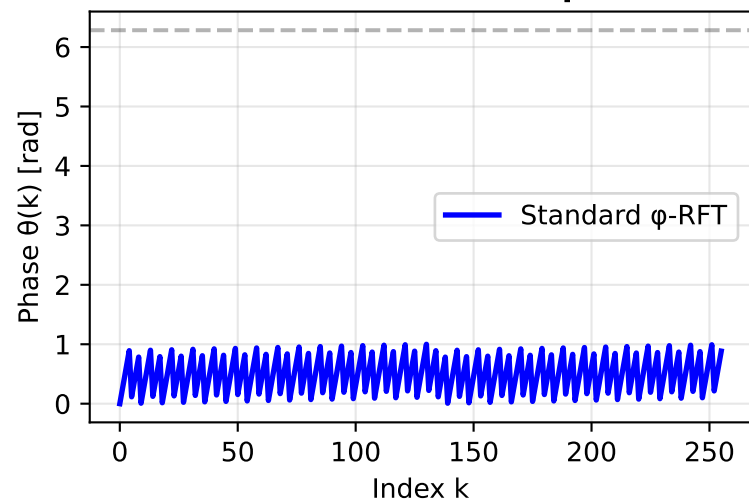
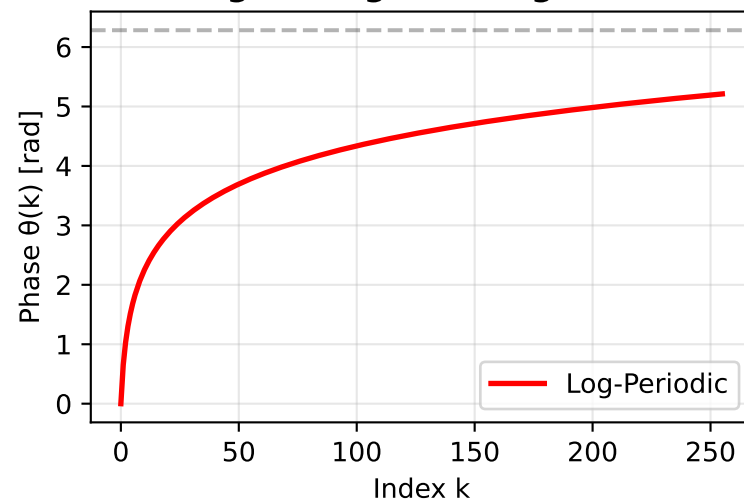
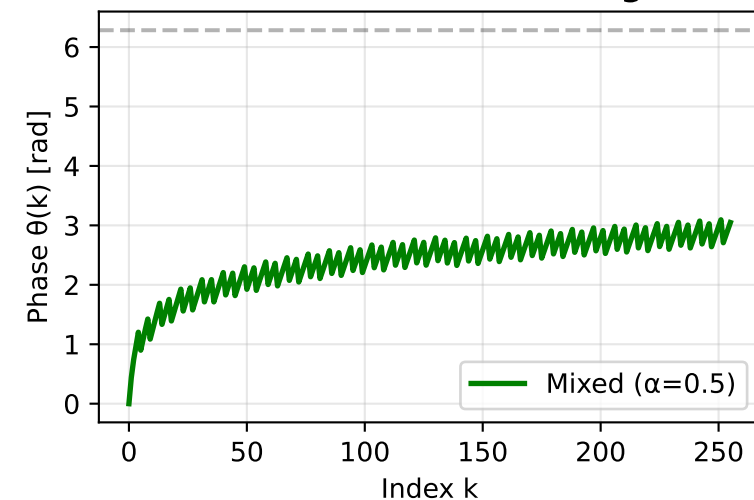
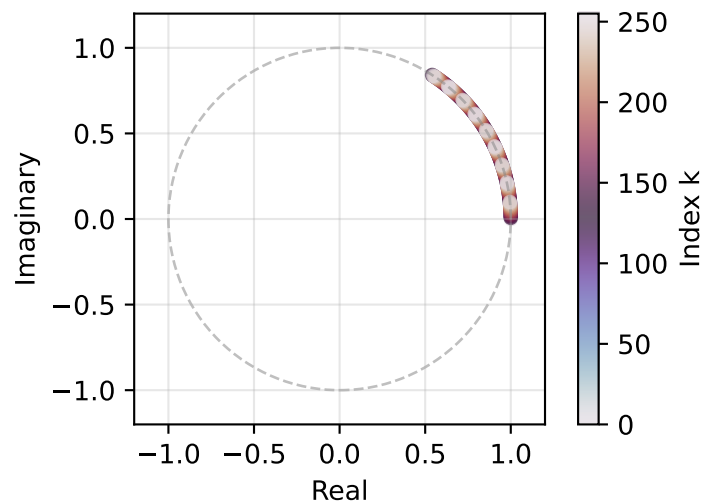
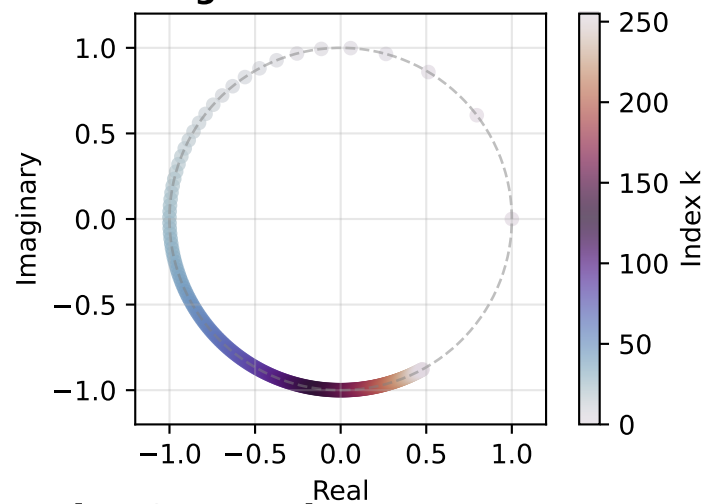


Standard: $\text{frac}(k/\varphi)$ LogPhi: $\log(1+k)/\log(1+N)$ Mixed: $(1-\alpha)\cdot\text{std} + \alpha\cdot\log$ 

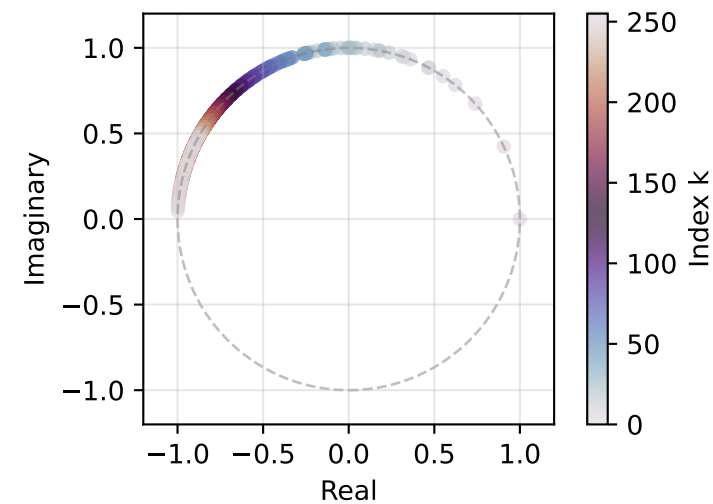
Standard on Unit Circle



LogPhi on Unit Circle



Mixed on Unit Circle



Sparsity Comparison Across Datasets

All variants achieve PARITY on pure text
Adaptive routing dominates

% Coefficients (99% Energy)

