Cryptocurrency Volatility Response to Event Types:
Comprehensive Statistical Comparison

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Statistical Test Results:
t-statistic = 4.768
p-value = 0.0008***
Cohen's d = 2.753
Power = 0.999

μ = 2.385%
σ = 0.782%

BTC

XRP

μ = 0.419%
σ = 0.489%

Infrastructure Events

Regulatory Events

Mean Volatility Impact (%)

Distribution Comparison

Density

Volatility Impact (%)

Infrastructure
Regulatory

Q-Q Plot
(Normality Check)

Sample Quantiles

Theoretical Quantiles