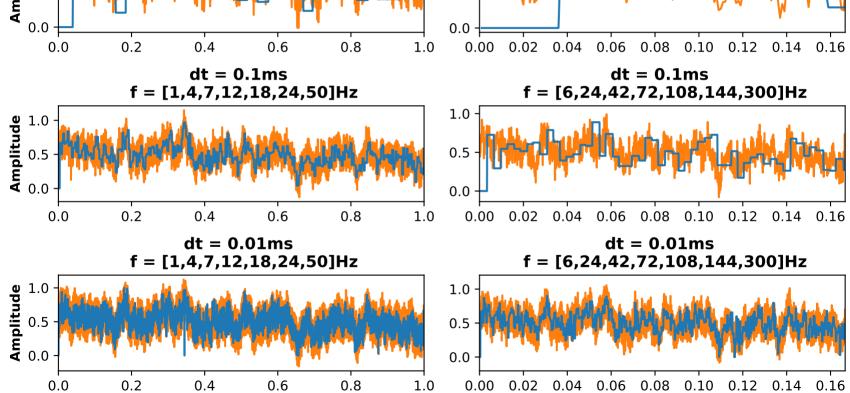Population latency coding encode and decode of test signal 2