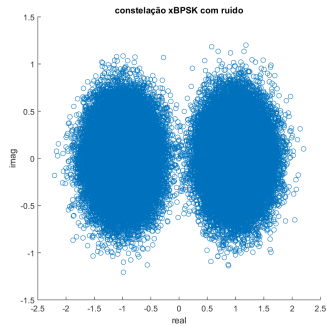
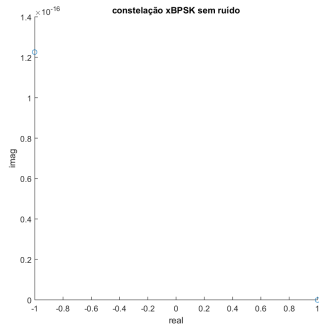


Simulação de Esquemas de Modulação Digital

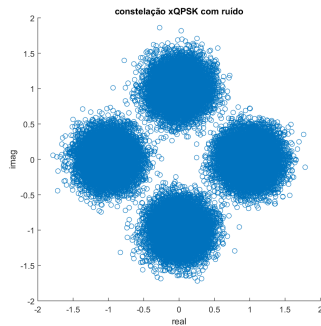
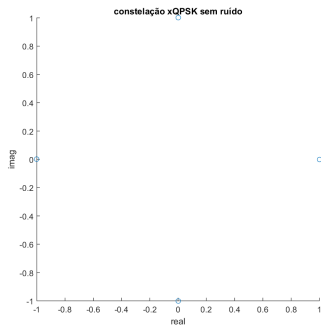
David Anchieta
Arthur Ramos
Hanna Vitória
Itamar de Aguiar

5 de outubro de 2016

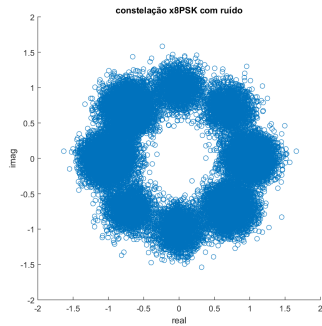
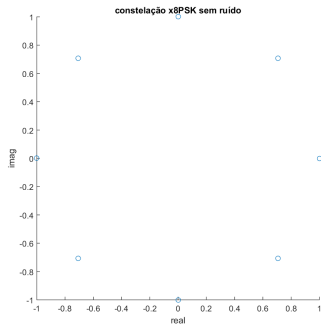
BPSK



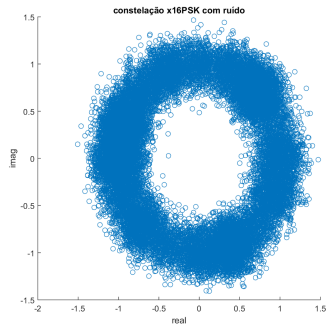
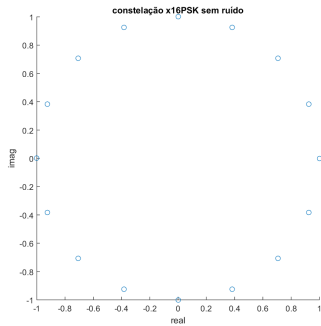
QPSK



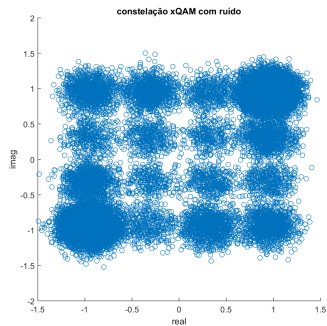
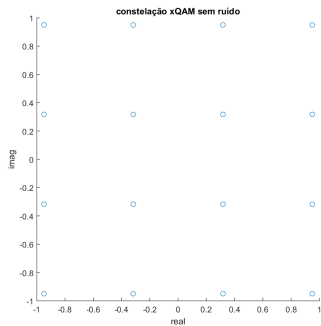
PSK 8



PSK 16



QAM



Taxa de erro de bits

BER BPSK = 2.4085×10^{-4}

BER QPSK = 1.9067×10^{-4}

BER 8PSK = 0.0122

BER 16PSK = 0.0808

BER QAM = 0.0379

Largura de banda

BPSK = 49152 Hz

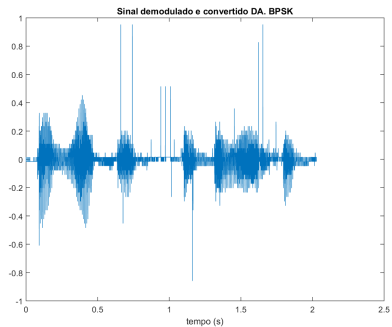
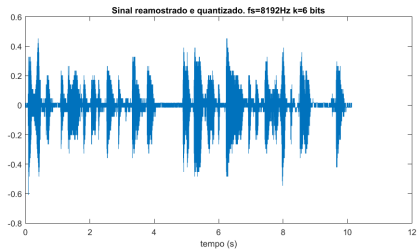
BER QPSK = 24576 Hz

BER 8PSK = 16384 Hz

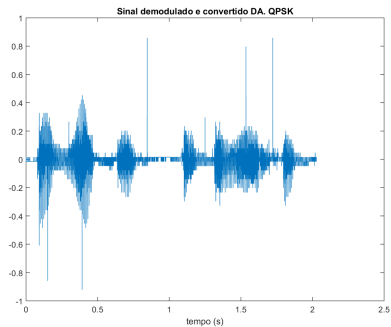
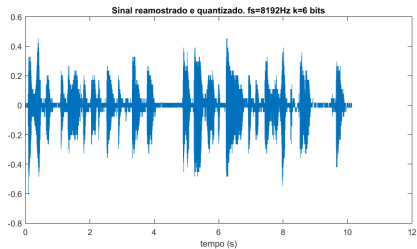
BER 16PSK = 12288 Hz

BER QAM = 12288 Hz

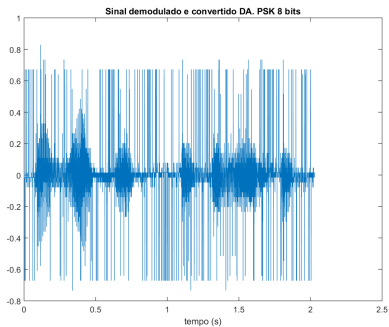
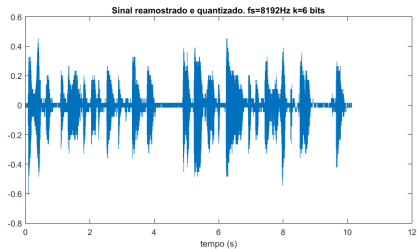
BPSK



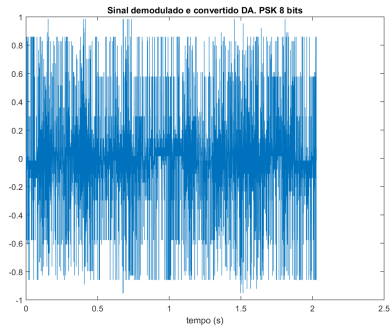
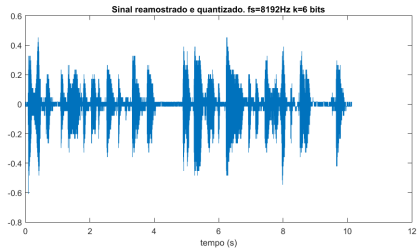
QPSK



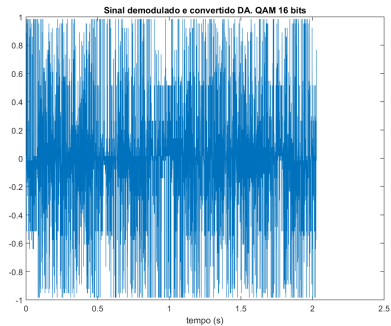
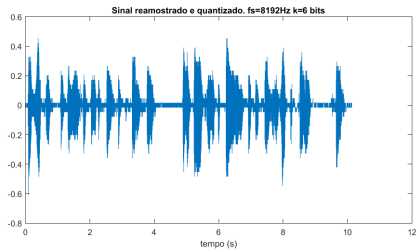
8PSK



16PSK



QAM



Qualidade de áudio

1. BPSK (quase igual ao original)
2. QAM 16 bits (Melhor custo/benefício)
3. QPSK
4. PSK 8
5. PSK 16