ASK-PSK-FSK

In amplitude shift keying when the input sequence is 1 the output is message signal and when input is 0 output is 0.

The message signal may be $m(t) = A_m \sin(2\pi f t)$

$$s(t) = \begin{cases} m(t), & input = 1\\ 0, & input = 0 \end{cases}$$
 (1)

In phase shift keying when input sequence is 1 the output is message signal and when input is 0 there will be a phase shift.

$$s(t) = \begin{cases} m(t), & input = 1\\ -m(t), & input = 0 \end{cases}$$
 (2)

In frequency shift keying when input sequence is 1 the output is message signal at same frequency and when input is 0 the output is message signal at doubt the frequency.

$$s(t) = \begin{cases} A_m sin(2\pi f t), & input = 1\\ A_m sin(4\pi f t), & input = 0 \end{cases}$$
 (3)

For an input of [1 0 1 0 1] the following are the plots

