

### Necessary Bandwidth Calculation:

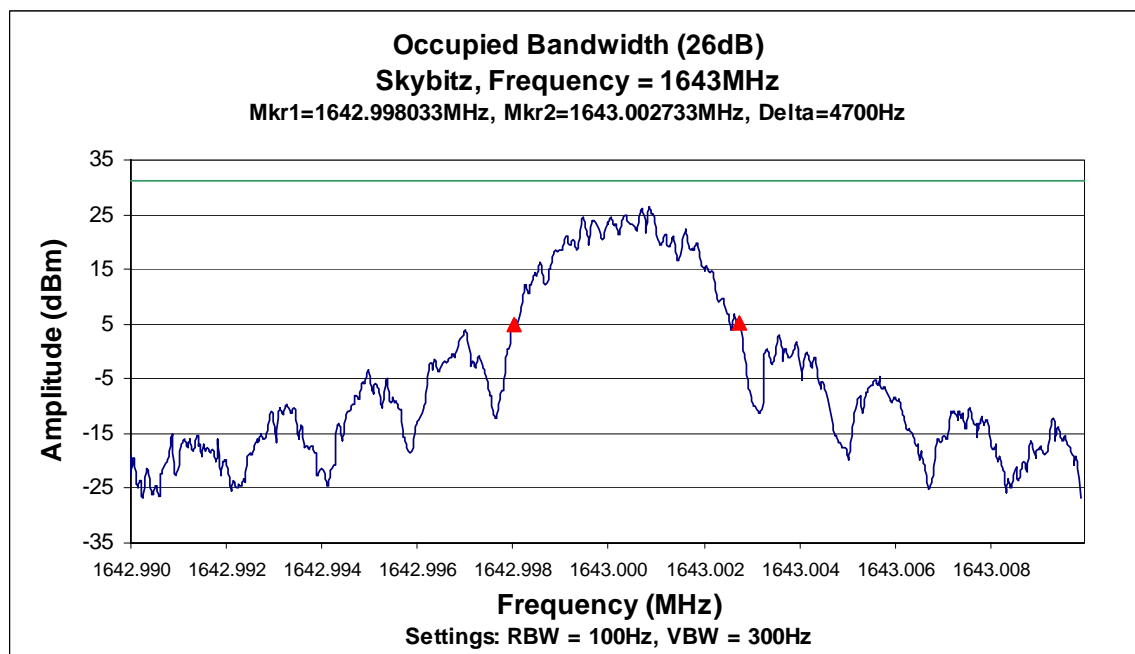
The necessary bandwidth calculation for the Skybitz signal is based on the following:

$$B_n = R * (1.18) \text{ for a 2-ary MSK signal.}$$

The bit rate is 3.6 kbps which puts the theoretical Necessary Bandwidth at:

$$B_n = 3.6 * 1.18 = 4.248\text{kHz.}$$

The occupied bandwidth measured at 26dB down from the peak transmit power is 4700Hz as shown.



The data signal transmitted is MSK. The emission designator requested is then:

FCC: 4K70G1D

IC: 4K70G1DCT (C for two state MSK and T for Time Division Multiplex)