

COM2000BP OCCUPIED BANDWIDTH

The following is the test setup and equipment used for the re-measurement of the occupied bandwidth of the COM2000BP (FCC ID BYMC2KS)

Equipment Used:

HP8594E S/N 3325A00532

HP8920A, S/N 2507A06044

Fluke 76 DVM S/N 67310821

Test Setup

The audio output of the HP8920A was connected to the Unit Under Test (UUT). The RF deviation of the UUT was measured on the HP8920A. The audio input frequency was swept to find the point of maximum deviation. This frequency was found to be 2800Hz. The audio input frequency was set to the frequency of maximum deviation and the level was increased until the deviation ceased to increase with increasing audio level. The audio frequency was then set to 2800 Hz and the level was then reduced to achieve 50% modulation. The audio level was then increased by 16dB.

With the input to the UUT set to 2800Hz modulation, 50% deviation + 16dB the HP8594E was used to measure the 99% occupied bandwidth. The measurements show the 99% occupied bandwidth is 11.55 kHz at the low end of the band at 151.655 MHz and 11.6 kHz at the high end of the band at 154.600 MHz.

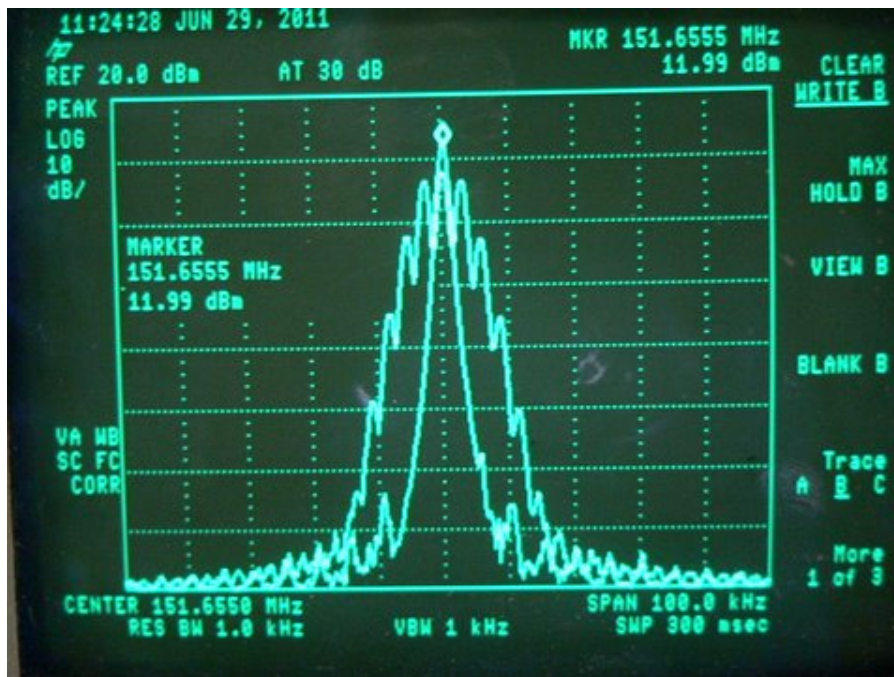


Figure 1 - COM2000BP 151.655 MHz Unmodulated and Modulated with 2800HZ + 16dB

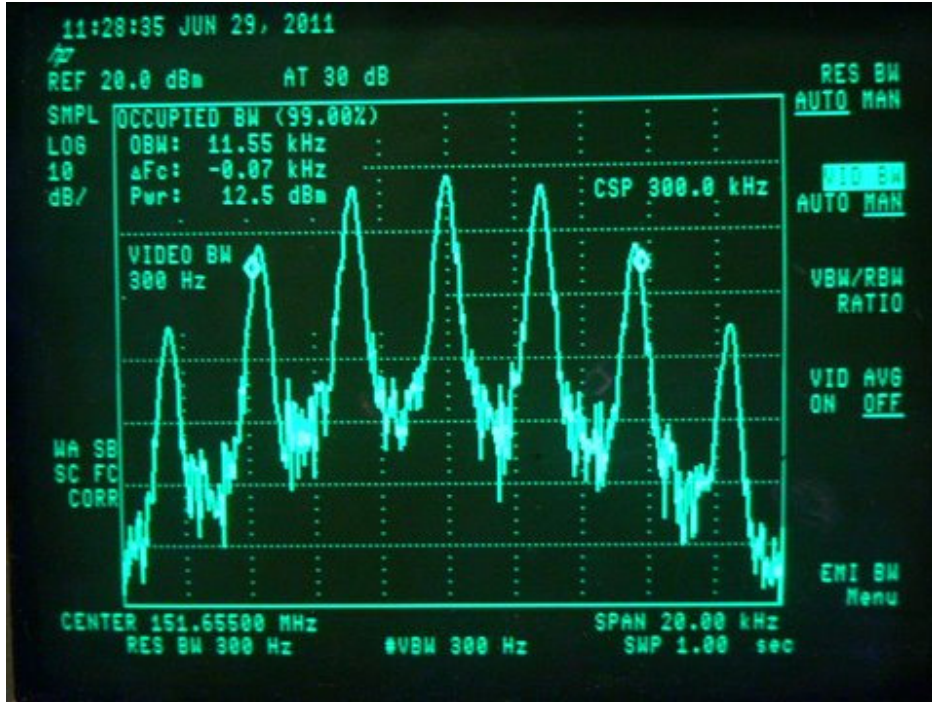


Figure 2 - COM2000BP 151.655 MHz Modulated with 2800HZ + 16dB 99% Bandwidth

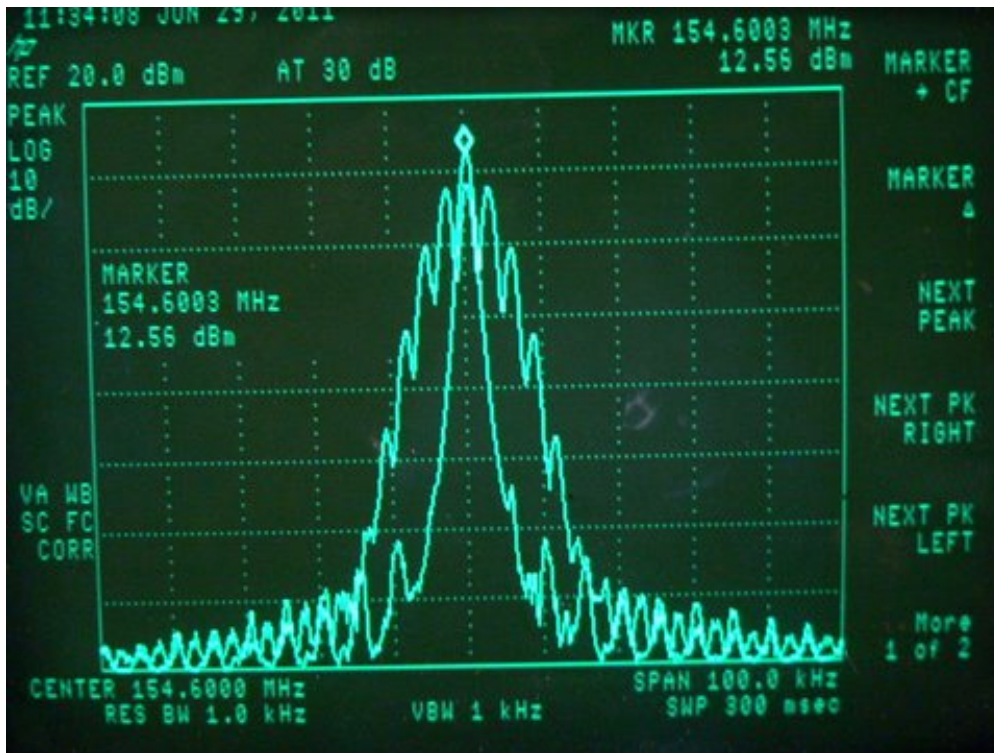


Figure 3 - COM2000BP 154.600 MHz Unmodulated and Modulated with 2800HZ + 16dB

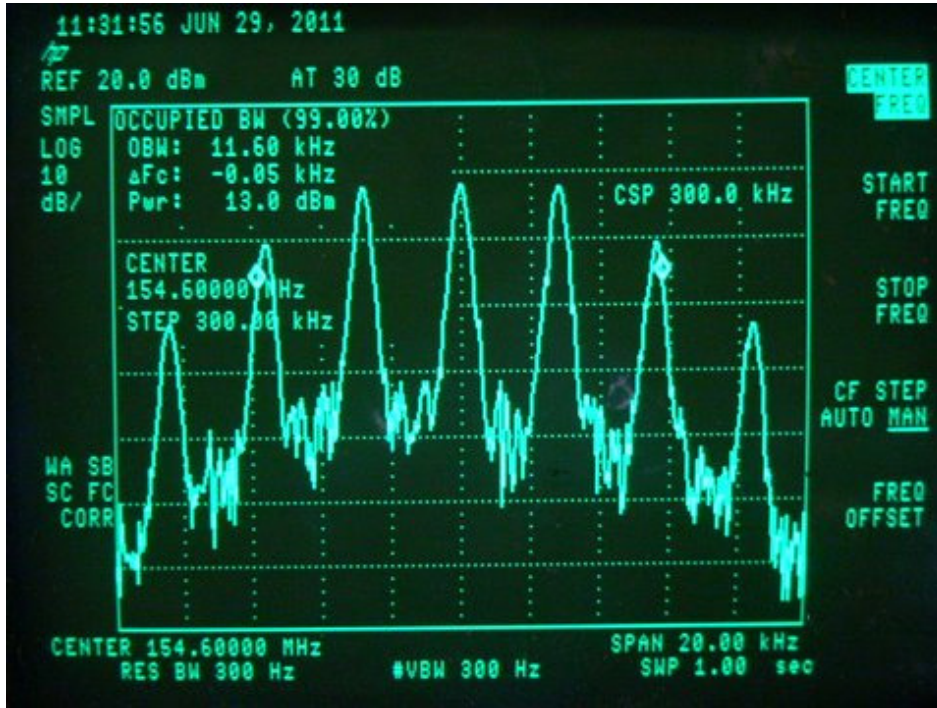


Figure 4 - COM2000BP 154.600 MHz Modulated with 2800Hz + 16dB 99% Bandwidth

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