



Input Signal measured directly before solid state amplifier.
The occupied bandwidth photos provide evidence of meeting FCC rule 2.1079.

Conducted Harmonic and spurious signals

The equipment was configured as shown in Figure 1. The translator was operated at 1100 watts peak power with a 10 dB visual/aural ratio. Measurements were recorded in the RF chain both before the retrofit amplifier and at the translator output. The figures beginning on the next page indicate the spurs outside the channel and harmonics present at the input of the retrofit amplifier. The top of the spectrum analyzer screen is the level of the fundamental signal (i.e. harmonics are ~ -40 dB on the input). The output cable and directional coupler were calibrated for loss at each spurious and harmonic frequency identified and the final harmonic/spurious values were calculated using the appropriate correction factors. All other harmonic or spurious products were >-80 dB and thus not recorded. The figures on the following pages indicate that the spurious components outside the channel and the harmonics meet the requirement outlined in 74.751(c).



Adjacent channel spurious (input to amplifier)



2nd Harmonic area spectrum (input)
(Fundamental power is top of display)