

Compliance with W206AF CP Special Conditions

The CP of W206AF(FX) specifies as part of the “Special Conditions” that: "BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the Application for license."

The included Figure 1, taken with all station in the shared tower and W206AF operating at full power without modulation, demonstrate that operation of W206AF complies with Sections 73.317(b) through 73.317(d) of the FCC Rules.

Emissions appearing on a frequency removed from the carrier by between 120 kHz and 240 kHz inclusive are attenuated well below 25 dB below the level of the unmodulated carrier. Emission appearing on a frequency removed from the carrier by more than 240 kHz and up to and including 600 kHz are attenuated well below 35 dB below the level of the unmodulated carrier. Emissions appearing on a frequency removed from the carrier by more than 600 kHz, must be attenuated at least $43 + 10 \log_{10}(\text{Power, in watts})$ dB below the level of the unmodulated carrier, or 67 dB in this case, or 80 dB, whichever is the lesser attenuation, 67 dB being the proper attenuation for W206AF. As shown in Figure 2, the emissions of W206AF are in full compliance with all the above requirements.

Figure 1 – 1.8 MHz Span

