



Two fields (Output @ 1100 watts)



Two fields (Output @ 250 watts)

### Frequency Response

Frequency Response characteristics were measured using the equipment configured in Figure 1. A  $(\sin X)/X$  waveform was used to generate a flat frequency response spectrum. The aural carrier was reduced as much as practical to be able to observe the spectrum but it was not possible to eliminate it. Measurements were recorded directly in the RF chain before the retrofit amplifier and after the retrofit amplifier at 250 watts and 1100 watts output power. Data is displayed with a 5 dB/division scale with the output spectrum overlaid on the input spectrum and separated by one vertical division. The data indicates the frequency responses are essentially identical. Thus the amplifier does not degrade the frequency response signal applied to the original translator. Measurements indicate the amplifier output response is within the 4 dB window as specified by FCC Rule 74.750.



Output/ Input Frequency Response at 1100 watts output (5 dB/div)