

Spurious Emissions Report for: KAWZ/KEFX Twin Falls, ID

1. Test Procedures: Conditions for the spurious emissions test consisted of the KAWZ Nautel FM transmitter set for 9.16 Kw (100% power) and the KEFX Nautel FM transmitter set for 8.92 Kw (100% power). Both transmitters feed a Shively Labs Combiner, whose output is fed to a Shively model 6510 antenna. A sample port located on the output side of the combiner in a 3 inch line section was the monitoring point. The RF sample was fed to a Tektronix model 2712 spectrum analyzer, SN # B044400.
2. Test results: The input level was set to place the level of the unmodulated carriers at -15 db. The spectrum was first examined between 120 KHz and 240 KHz below, and above the KAWZ carrier at 89.9 MHz. Peak emissions ranged from 89.6 db to 91.1 db with an attenuation of 74.6 db and 76.1 db respectively. Observing the spectrum from 240 KHz to 600 KHz below, and above the KAWZ unmodulated carrier at 89.9 MHz peak emissions ranged from 90.5 to 91.6 db with an attenuation of 75.5 and 76.6 db respectively. Observing the spectrum from 600 KHz above and below the KAWZ unmodulated carrier, no emissions were discernable above the noise floor of the instrument at approximately -95 db. On/off tests were performed for both transmitters and no spurious emissions were discernable.

The same test was performed on the KEFX transmitter with the following results. The spectrum was examined from 120 KHz to 240 KHz below and above the KEFX carrier at 88.9 MHz. Peak emissions ranged from 89.5 to 91.5 db with an attenuation of 74.5 to 76 db respectively. Observing the spectrum from 240 KHz to 600 KHz below, and above the KEFX unmodulated carrier at 88.9 MHz, peak emissions ranged from 90.5 to 91.6 db with an attenuation of 75.5 db and 76.6 db respectively. Observing the spectrum from 600 KHz below and above the KEFX unmodulated carrier, no emissions were discernable above the noise floor of the instrument at approximately -95 db. On/off tests were performed for both transmitters and no spurious emissions were discernable.

I certify that I, Kelly Carlson, have been a broadcast technician for approximately 30 years and I further certify that these results are true to the best of my technical ability. Tests were performed on 4-14-06.



Kelly Carlson