

Explanation of resolution bandwidth

The data plots for radiated emissions shown in the NTS Test Report 071-0800-1-1-N do not indicate the proper resolution bandwidths. This was an instrumentation issue at the time of measurement, but one which does not significantly effect the amplitudes reported in section 6.0 of the report due to their categorization as narrowband signal. A total re-measurement of the emissions of both the Skylink Universal Remote models 68 and PD68 would have placed undue hardships on the laboratory. Thus, an experiment was conducted to demonstrate graphically that the amplitudes measured at 300kHz bandwidth (bw) would not vary significantly at other bandwidths. Measurements were made of a 374.5MHz signal using 100kHz, 300kHz and 1MHz resolution bandwidths. The resultant amplitudes were 81.7dB μ V, 81.8dB μ V and 82dB μ V respectively. This equates to a ± 0.3 dB μ V delta relative to the 300kHz measurement. With respect to the report's tabular data vs. limits of section 6.0, this is an insignificant delta and the measurements as reported using a 300kHz bw are valid. The experiment's plots are included below.



