

## **Application Overview**

This application seeks certification of an ultra-wideband (UWB) device under the recently approved Part 15.517 (Technical Requirements for Indoor UWB Systems).

The UWB device is a Time Modulated-Ultra Wideband™ (TM-UWB) transmitter. The corresponding TM-UWB receiver is not yet ready for certification. Until such time as the receiver is certified, customers will use test instrumentation, e.g., spectrum analyzers and high speed sampling oscilloscopes, to measure and view the transmitters' emissions.

The device is line powered. The antenna is carefully matched to the excitation waveform and is attached to the transmitter with a reverse polarity SMA connector. These connectors are difficult to obtain, which prevents the replacement of the antenna with an unapproved antenna.

Intertek Testing Services in Atlanta, Georgia measured the device in accordance with the measurement procedures identified in the appendices of the FCC's UWB Report and Order (FCC 02-48). Any deviations from those procedures have been annotated and explained.