

Unlike other types of modulation, OFDM is not a single carrier but rather an assemblage of many carriers with close spacing. In the case of FCC ID H25HVT250-S, there are 399 carriers spaced 5.874 kHz apart. In order to make meaningful measurements of the power outside the necessary bandwidth, the power in the individual carriers at the band edges must be resolved. For this reason, the spectrum analyzer resolution bandwidth is set to 10 kHz, which is the widest bandwidth that will still isolate the last carrier. The test procedures for OFDM devices have never been clearly defined, however; this was the resolution bandwidth that we arrived at in our previous discussions with ATCB and that we have used in all our previous FCC filings with same. It is our belief that DTC Communications, in conjunction with ATCB, established the precedence for the measurement and approval of COFDM devices in the licensed bands. Please refer to the following submissions which support this position.

FCC ID: H25PDTX5000	Grant date: 08/25/05
FCC ID: H25PDTX250S	Grant date: 12/10/05
FCC ID: H25PDTX100S	Grant date: 12/12/05
FCC ID: H25PDTX100SBW	Grant date: 02/03/06
FCC ID: H25PDTX1000S	Grant date: 04/28/06
FCC ID: H25PDTX5000A	Grant date: 04/05/07

The transmitter used in the HVT250-S is the same as H25PDTX250S but has been repackaged to create a water tight version.