



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

January 27, 2003

RE: FCC ID: HDCTRC4205

Attention: Gregory M. Snyder / Brian J. Dettling
I have a few comments on this Application.

1. Please note that the 731 states DSS (Frequency Hopping) as the type device. This is a DTS (Digital transmission System). Please correct the 731 to give the proper EUT type.
2. Please note that for information to be provided with a Part 15 device 2.1033(a)(5) states, "A block diagram showing the frequency of all oscillators in the device. The signal path and frequency shall be indicated at each block. The tuning range(s) and intermediate frequency(ies) shall be indicated at each block. A schematic diagram is also required for intentional radiators." Please provide a Block diagram that fits the requirements of 2.1033.
3. In section 3.1 of the report you state that a diode detector and oscilloscope was used to measure conducted power because the analyzer used for testing did not have the correct bandwidth. You then state that a power meter was used to measure the output of the signal generator. Why wasn't the power meter with peak head used to directly measure the output of the device itself?
4. You incorrectly list 110.94MHz, 156.84MHz and 257.46MHz in an average table (Table 7). Frequencies below 1000MHz and above 30MHz are QP. Please retest these frequencies to QP and not Average. Alternately, if it is the case, re-label these frequencies as QP.
5. Please note that when measuring between 30MHz to 1000MHz for radiated spurious emissions the video BW of an analyzer is to be equal to or greater than the RBW. This is because when the video bandwidth is less than the resolution bandwidth the analyzer begins to average. Typically averaging does not really begin until the VBW is 1/10 the RBW, but none the less when the VBW is less than the RBW the analyzer is not set properly. Section 3.5 of your report states a Video BW of >30kHz. Please verify that the Video BW was equal to or greater than the RBW

A handwritten signature in black ink that reads "Dennis Ward". The signature is fluid and cursive, with "Dennis" on the top line and "Ward" on the bottom line.

Dennis Ward
<mailto:dward@AmericanTCB.com>

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.