



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

June 30, 2002

RE: Grandtec Electronic Corp.

FCC ID: PVCGTP212

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) The block diagram provided is for the receiver. Please provide a block diagram for the transmitter.
- 2) Several model numbers are listed throughout the application. Please explain the differences between each of these models and also provide the justification made for which one was selected for testing.
- 3) Please provide internal photographs of the RF portion of the product with the shield removed. Since the RF section of this product is a separate component, please be sure to provide top and bottom photographs of the component as well.
- 4) The Form 731 should state the actual frequency tuning/transmission range of the device. Please adjust section 6 of the 731 form to state 2410-2470 MHz.
- 5) FYI, for products certified under 15.249, RF exposure information is not required.
 - a) The users manual contains RF exposure information on the bottom of page 2. Please remove the section (3) contained at the bottom of page 2 in the users manual regarding RF Exposure information.
 - b) We will ignore the RF Exposure exhibit provided.
- 6) An output of 1 dBm with a 1 dBi gain antenna should yield a field strength at 3 meters of around 97 dBuV/m (the limit is 94 dBuV). However the maximum reading obtained was 86 dBuV/m, which is about 10 dB lower than expected. Please explain this discrepancy.
- 7) The test report (page 6 of 30) states a TX power of 1 dBm, while the Users Manual (page 5 of 13) states 10 dBm. Given a 1/4 wave dipole and a limit of 94 dBuV/m @ 3 meters, the output power would have to be under 1 dBm. Please correct affected exhibits.
- 8) Please update section 1.6 of the test report to include information for the OAT's site used for < 1 GHz. testing.
- 9) Please confirm both the RBW & VBW settings used for peak and average radiated measurements above 1 GHz.
- 10) Please correct the tables on pages 20, 22, 23, & 24 of the test report to show the raw readings and the correction factors applied.
- 11) Please provide the RBW and VBW settings used for Appendix B. Also, please provide a calculation for this data showing compliance with 15.209.

Timothy R. Johnson
Examining Engineer

[mailto: tjohnson@AmericanTCB.com](mailto:tjohnson@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.