

# American Telecommunications Certification Body Inc.

6731 Whittier Ave, McLean, VA 22101

October 13, 2003

RE: Kenwood USA Corporation

FCC ID: ALH36023110

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

1) Please provide DC voltages/currents applied into the several elements of the final radio frequency amplifying device for normal operation over the power range as required by 2.1033(c)(8).

Response: DC voltage applied to final RF PA: 13.6 V  
DC current into final RF PA: 4.7 A

2) Table 7-1 and 7-2 appear to measure the same frequencies, yet the antenna gains listed in each table are different from each other for measurements under and over 1 GHz. Also, is the Table In 7-3 considered complete? Please explain.

Response: Please refer to the revised test report uploaded with this response.

3) The masks shown in Plot 8-1 are place based on the channel spacing (25 kHz) and not the authorized bandwidth (20 kHz) as given in 90.210(b). Note that other sections of the rules such as Part 74 do show an authorized bandwidth of 25, 30, and 60 kHz. The masks are therefore shown wider than they should be. Note that compliance can still be seen but if possible, please adjust. Additionally, to make future review of these reports easier, we recommend the test report stating what subparts of each rule part are being applied. Additionally, it is helpful if the limits for all subparts the device is being approved to be shown to keep the review time and questions to a minimum.

Response: Please refer to the revised test report uploaded with this response.

4) The users manual mentions 60 cm distances for RF exposure purposes for occupational/controlled exposure conditions at 50% duty factor, while the MPE exhibit shows 32 cm for 50% duty cycle, 46 cm for 100%. It appears that the MPE exhibit provided uses the limits for 450-490 MHz instead of 146-174 MHz. I believe the occupational exposure results would be 58.2 cm for 100% or 41.2 cm for 50%. Please help explain and/or correct the affected exhibits for consistency. Additionally, please note that the device does not appear to contain any warning signs or labels to establish awareness regarding occupational exposure conditions. Please provide any information regarding this issue. Note that the user is not necessarily the same as the one who installed the radio.

Response: The manual covers several models and frequency ranges. Each of model has a different MPE distances (as exhibited in each application). Kenwood has elected to use the worst case distance for all models covered by the Users Manual. Note that it is Kenwood USA Corporations' understanding that we may cite a user separation distance greater than the minimum calculated MPE distance in the FCC application.

5) Please provide an attestation regarding compliance to Part 22.313 for this device.

Response: The user will transmit his ID, as usual in this radio service, at the beginning, during each exchange, and/or at the final exchange.

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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.