



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

October 18, 2004

RE: FCC ID: SHG-WL11A_ATCB001812
Attention: Jerry Liu

I have a few comments on this Application. Please note that further comments may arise in response to answers provided to the questions below.

1. Please note that the users manual cannot be held confidential. Please remove the users manual from the confidentiality request.
2. Please provide a block diagram that is in accordance with 2.1033. Such block diagram must contain clock and clock paths to major circuit blocks.
3. Please note that this does not appear to be a very stable transmitter. Please explain what measures are taken to insure that the device does not go out of the allowed band during normal operation etc.
4. Please note that you have provided no information on the transmitter frequency determining circuitry components. Please provide schematics that provide all of the values of components used in the device. These components must be able to be used to determine actual frequency of operation of the device.
5. Please note that it is not clear if there is only one transmitter and two receivers or if all three devices have transmitters in them. Please clarify.
6. If all three devices have transmitters, please note that similarity of schematics is not sufficient to warrant multiple transmitters under one ID. The transmitters must be not just similar in schematics but must be electrically identical. While transmitters 902 and 905 have similar enough transmitter modules, the 901 transmitter is too dissimilar from the other two. Please provide justification as to why these are not two separate and distinct transmitters (i.e. a system that is ALWAYS sold together as a system etc).
7. Please note that you have only showed the FCC ID label location for one device. If there are three transmitters, please explain and if necessary, show the location of the FCC ID label for all transmitters.
8. Please note that it appears that you have averaged the fundamental and the spurious emissions incorrectly. Please note that 15.231 averaging is to be done using pulse width duty cycle averaging and not averaging on an analyzer or other averaging meter. Please show the appropriate pulse width duty cycle and associated duty cycle factor and how this was applied to the peak reading to produce the proper averaged reading (i.e. the formula used to calculate the duty cycle correction factor and the formula to produce the final results using this factor).
9. Please note that the report states the transmitter is set to channel one. However, neither the operational description nor other documentation describes multiple channel operation. What is the frequency range and how many channels are capable in the device?
10. Please explain how the device meets the requirements of 15.231(a)(1).

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.