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

December 19, 2003

RE: Shure Incorporate

FCC ID: DD4SLX1

I have a few comments on the above referenced Application.

1) Confidentiality appears to be desired on certain exhibits. Please provide a cover letter that addresses which exhibits are being requested to be held as confidential. Note that only exhibits that contain proprietary information can typically be held as confidential (i.e. schematics, block diagrams, etc.).
2) Please provide internal photographs showing the main board with the subshield(s) removed.
3) The 731 form mentions a frequency range of 470 - 806 MHz. However from the users manual, the lowest frequency appears to be 518 MHz and the highest appears to be 865. Note that the schematics appear to only cover models H5, J3, L4, R5, S6. Please explain.
4) The model R5 shows a frequency range of 800-820 MHz, however Part 74 only allows operation up to 806 MHz. Please explain how all model R5's for sale in the U.S. will only be operational in the 800-806 MHz band. Note the end user should not have the capability of selecting frequencies outside of what the device is approved for. Note that page 10 of the users manual shows that the user may select the frequency from the LCD panel.
5) The test report mentions 8 models (section 8.1), but the schematics only appear to cover 5. Also see questions 3 & 4 above. Additionally, the test report only appears to covers H5, J3, and L4 models. Please comment and make corrections as necessary.
6) Note that one of the measurements in section 2 (page 93) of the report states mW, while the results appear to be in Watts. Please verify and/or correct as necessary.
7) The RF power output tests (all reports) appear to explain a conducted measurement, while the plots suggest a radiated measurement in the title and conducted in the notes. Please define the method used. Additionally, if the measurements was performed radiated, is the power calculated as conducted, ERP, or EIRP?
8) The frequencies listed on pages 47, 49, 50, 109, 111, 171 do not appear to match the bands of this transmitter or the tests performed and do not appear proper for this report. Please explain and/or correct.
9) Plots on page 115, 117, 175, 177 appear blank. Please explain.
10) The test report seems to present spurious test data following typical radiated methods such as ANSI C63.4 and then calculating TX power via far field equations. Please note that when the limits are given in dBc (i.e. 43 + 10 log P) then the device must be tested following substitution methods specified in EIA/TIA 603. However the FCC has stated that it is only necessary to perform the substitution method for data that is within 20 dB of the limit. Given the nature of the results obtained on this device, only a few points need be verified (see pages 180, 183, 192, & 195). Please provide this information.
11) Please supply the DC voltages & Currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.

Timothy R. Johnson
Examining Engineer

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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.