



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

October 18, 2007

RE: Socket Communications

FCC ID: LUBP500CF-1, or LUB-P500CF-1

After a review of the submitted information, I have a few comments on the above referenced Application. Depending on your responses, kindly understand there may be additional comments.

- 1) There is conflicting information as to what the FCC ID is. For instance, the confidentiality letter and cover letter shows LUBP500CF-1. The label and test reports shows LUB-P500CF-1. It is uncertain what the FCC ID should. Please confirm and correct all necessary exhibits to be consistent.
- 2) Since mobile operation is also requested, kindly provide an MPE 20 cm exhibit (i.e. calculation at 20 cm of Field Density).

EMC:

- 3) Number of channels in the test report still does not appear correct. Please review.
- 4) Review of the HP 837B online appears to show this to be an average power meter. Power meters are expected to be peak power meters. Please review. Note that if 100 mW is exceeded, then SAR requires 3 host methods. Additionally, note that average measurements according to the DTS guidance notes may be used.
- 5) Information regarding PSD does not appear to explain the span used. It could not be verified that the span/3kHz \geq 500. Please explain.
- 6) Bandedge measurements appear to use a RBW of 100 kHz. This is only allowed in the 1 MHz bands next to the bandedge. Additionally, measurements must be made relative to the 1 MHz required bandwidth which is achieved utilizing a bandedge delta measurement. Kindly see attached.
- 7) Other measurements $>$ 1 GHz do not appear to utilize a RBW of 1 MHz and VBW = 1 MHz for peak and VBW = 10 Hz for average (assuming EUT is in constant TX). Please review.
- 8) RBW and VBW for AC Powerline conducted measurements appear odd. Please review.
- 9) AC Power Plot appears to show above the plot that the plot is average. Please explain as tabular data states readings of the same value are peak.

SAR:

- 10) Previous response states that SAR lab measured average power. However note that 4) above suggests EMC is also average power. Note that FCC expects power to be measured during SAR (17.16 dBm) to be \geq power measured during EMC (17.81 dBm). This does not appear to be the case. Please review. It may be that the SAR facility used AVG power. Regardless, there must be assurance that the SAR facilities sample used was operating at power \geq sample used during EMC measurements.

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.