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

September 18, 2007

RE: ATCB005421

FCC ID: BZAIR608

I have a few comments on this application. Depending on your responses, kindly understand there may be additional comments.

1. It is required to put oscillator frequency value in the block diagram according to FCC 2.1031(b)(5). Please provide revised block diagrams with oscillator frequency on it.

2. Only one conducted emission level was shown in the test report.
   According to ANSI C63.4(2003), you need to provide noise level of the measuring instrument if less than six emissions are within 20dB of the limit.
   "ANSI C63.4(2003) AC powerline conducted emissions data
   The frequency and amplitude of the six highest ac powerline conducted emissions relative to the limit, unless such emissions are more than 20 dB below the limit. If less than six emissions are within 20 dB of the limit, the noise level of the measuring instrument at representative frequencies shall be reported."

3. At page 24 of section 9, RBW setting in the spectrum analyzer should be using 3KHz instead of 1KHz for peak spectrum density measurement.

4. At page 29 of section 10, RBW setting in the spectrum analyzer should be using 100KHz instead of 300KHz for conducted band edges measurement.

5. At page 14 of section 6, for radiated emission frequency above 1GHz, the correct setting in the spectrum analyzer should be using RBW=1MHz, VBW=1MHz for peak measurement and RBW=1MHz,VBW=10Hz for AV measurement on radiated disturbance test.

6. It is important to check the radiated emission frequency level falling in the restricted band according to FCC part 15.205, usually we call this measurement as radiated band edge test.
   You need to provide spectrum plots with peak and AV measurement in the test report for this test clearly showing the radiated bandedge. For example:
   For 2412MHz (channel1) operating frequency, you have to show frequency emission falling in 2310~2390MHz restricted band with both peak and AV measurement.
   For 2462MHz (channel11) operating frequency, you have to show frequency emission falling in 2483.5~2500MHz restricted band with both peak and AV measurement.
   For peak measurement, RBW=1MHz, VBW=1MHz or 3MHz, for AV measurement, RBW=1MHz, VBW=10Hz.
   Attached please find the RBW setting on radiated emission for FCC part 15.247 published by FCC, from where you can see the VBW=10Hz for AV measurement, for your reference.

Please call me SKYPE, if you have any questions about my comments.

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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.
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