September 4, 2008

MET Laboratories, Inc.
TCB Reviewer: Chris Harvey
914 West Patapsco Ave,
Baltimore, MD 21230

RE: RT Response 80992 Advanced RF, FCC ID: S2O-ADRF25K

Dear Chris,

Please see our response below:

1. The Intermodulation plots in the report seem to be improperly labeled. The page titles of the band and modulation do not necessarily match the individual plot titles. Also, the titles of Plots 62-73 and 80-85 do not reflect the frequency range of the data in the plots. Please correct the plot titles.

Please see revised report with corrected plot titles.

2. This device has Donor port, Server1 and Server2 ports. The Block Diagram shows the Server and Extended Antenna. The test report documents testing of the Server1 and Donor ports. Is the Extended Antenna the same as Server2? Please justify testing only the Donor and Server1 ports and not the Server2 (or Extended) port.

The Server1 and Server2 ports are internally coupled (within the repeater). The purpose of the 2 ports is to increase the repeater's overall coverage area. For example, if the repeater is installed in a large building, Server1 could be used to cover the main part of the building and Server2 could be used to cover a separate wing of the building. So by using two separate coverage antennas, the total coverage area of the repeater could essentially be increased. As shown in the photo, Server2 is the auxiliary port and is attenuated by -15 dB. Therefore the Server2 port would not need to be tested.

3. The Form 731 entries for a Repeater of this type (no signal generation, just translation and amplification) should list the entire band of transmission and the 3-character Emission Type designator for the modulation(s) used. This device appears to use CDMA (F9W) and GSM (GXW) types of modulations in the 824-849 MHz, 869-894MHz, 1850-1910 MHz and 1930-1990 MHz bands. Please confirm that this is correct.

The frequencies listed in the Form 731 reflect how the EUT will operate; the applicant does not wish to list the frequencies as suggested. We have added the emission designators as suggested.

4. The photographs submitted are of wonderful detail and clarity. Please provide a few more Internal photographs that show the general internal construction and cabling of this device.

Please see Internal Photos_General.pdf

If you need any additional information, please let us know.

Thanks!

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