



Elliott Laboratories  
www.elliottlabs.com

684 West Maude Avenue  
Sunnyvale, CA 94085-3518

408-245-7800 Phone  
408-245-3499 Fax

March 12, 2010

American TCB  
6731 Whittier Avenue, Suite C110  
McLean, VA. 22101

Reference FCC ID: E2K625ANXH

Dear Doug,

The FCC requested additional information regarding the output power used in the MPE calculations. The information is detailed in the following paragraphs.

The output power values used in the MPE calculations for the WiMax portion of the composite device were taken directly from the measured power reported in the EMC report. The power measurements in the EMC report were gated power measurements (i.e. they were the average power with average power determined only during periods the device was transmitting).

During the power measurements the device's transmissions were initiated using a signal generator to create a simulated base station signal to instruct the device under test to transmit test vectors at maximum power on all carriers at the stated data rate and its corresponding modulation. With the test vector all Uplink (UL) symbols are traffic symbols transmitting at full power.

As the calculated values were well below the  $1\text{mW}/\text{cm}^2$  limit no additional corrections were made to the MPE calculation to account for the operating duty cycle (source-based averaging). If the UL duty cycle for mobile WiMax stations (less than 50% for all modes) was applied the estimated value for the power density 20cm from the device would be lowered.

If there are any questions or if further information is needed, please contact Elliott Laboratories for assistance.

Sincerely,

A handwritten signature in blue ink that reads "Mark Briggs".

Mark Briggs  
Staff Engineer