



## Engineering and Testing for EMC and Safety Compliance

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American TCB  
6731 Whittier Avenue  
Suite C110  
McLean, VA 22101

RE: O6YUTS-EA7T56B

To Whom It May Concern:

The change to the device was enabling of Band F at 1893.65MHz via firmware; previously the firmware was incapable of accessing Band F. The hardware of the device was not changed including the power or modulation characteristics.

The following is a chart, which demonstrates that the power from the original grant has not changed, but the measurement procedure has changed. The original grant lists 0.155 W as the output power, which was a corrected measurement obtained from the conducted peak spectrum analyzer level using the duty cycle. We feel the grant should reflect the average EIRP as the correct power. The power of 0.155 W was a conducted measurement, although the EIRP power was measured higher at 0.740 W average EIRP determined using the average TDMA selection on the power meter. The average value cannot be measured using a spectrum analyzer, so it was calculated originally and now measured with a power meter.

Original Application Data	Permissive Change Data
<b>Conducted Antenna Port</b>	
Peak (spectrum analyzer) = 31.0 dBm = 1258.9mW	Peak (spectrum analyzer) = 31.4 dBm= 1380mW 33.61 dBm =2296.1mW power meter
Average = Peak - duty factor Average = 21.9 dBm =155 mW	31.81 dBm =1517.1mW power meter
<b>Radiated with 7 dBi antenna</b>	
Peak = 37.47 dBm =5585mW	Peak = 37.9 dBm= 6166mW power meter
Average = Peak - duty factor Average = 28.7 dBm = 740mW	36.1 dBm= 4073.8mW power meter

Best Regards,

Melissa Carter  
[mcarter@rheintech.com](mailto:mcarter@rheintech.com)  
Rhein Tech Laboratories, Inc.