

November 13, 2005

RE: FCC ID: TPVGRB-288_ATCB002944

Attention: Sam Chien / Cathy Chen

1. Please note that 15,247 devices are listed in watts on the grant and not dBuV/m. Please correct the 731 to show the actual conducted power measured on the device.

[Ans: Please see the file of "GRB-288-Form-731\(REVISE\).pdf"](#)

2. Please note that the 731 states the equipment code is DTS. Please note that data in the application indicates that this is being certified under DSS. Please correct the 731 to show the proper equipment code.

[Ans: Please see the file of "GRB-288-Form-731\(REVISE\).pdf"](#)

3. Please note that the results of the sample calculation provided does not appear to be correct. Please note that $90 + 9.54 - 14.77 + 3.01$ is not 92.22 but is 87.78. 92.22 would be $90 - 9.54 + 14.77 - 3.01$; which appears to be 30E2/Gd. Please explain your formula.

[Ans: \$P = E\(\text{dBuV/m}\) - 90 + 9.54 - 14.77 + 3.01\$
 \$= E\(\text{dBuV/m}\) - \(90 - 9.54 + 14.77 - 3.01\)\$
 \$= E\(\text{dBuV/m}\) - 92.22\$](#)

4. Please confirm that the resolution bandwidth, video bandwidth and span stated on page 16 of the test report were those used for the plotted data on pages 18 to 22 of the test report.

[Ans: Please see the page 16 of "FCC Report \(Revise\).pdf"](#)

5. When at all possible, the FCC wants power to be measured at the antenna terminal for part 15.247 devices. As the EUT was connected directly to the analyzer for certain tests, please explain why power was not done as a conducted antenna terminal measurement.

[Ans: Because it can't be connected directly to the analyzer. Its antenna is chip antenna. It doesn't have a connector. Please see page 3 of this file. So the EUT must be tested use radiated measurement.](#)

6. Please note that the 20dB bandwidth may have been measured incorrectly. Please note that When properly modulated, Bluetooth devices typically have a 20dB bandwidth in excess of 800kHz (between 790 to 900kHz). As this is supposed to be a standard BT device, it is expected that the 20dB bandwidth would be consistent with the actual BT specifications. Perhaps the device was not modulated as it is supposed to be. Please explain and please retest the 20dB bandwidth to come in line with an expected and properly modulated BT device.

[Ans: Please see pages 25~26 of "FCC Report \(Revise\).pdf"](#)

7. Please note that as the 20dB bandwidth data does not appear to have been modulated during the test, further concerns arise about the proper modulation of

the device during radiated emissions testing. Please note that a BT device is to be properly modulated and in two configurations. The first configuration is a modulated BT with hopping disabled. The second configuration is a modulated BT with hopping enabled. Please confirm that these required conditions have been met during all radiated spurious emissions testing of the BT device.

[Ans: Yes, All tests are in modulated BT.](#)

8. Please note that while the device may be too small to accommodate the 2-condition statement of 15.19, this statement must still appear in the manual. Please provide a manual with this statement contained in its contents.

[Ans: Yes, they had been put in user manual. Please see the Page 5 of "GRB-288 UserGuide\(E\).pdf".](#)

9. Please provide the required block diagram for the BT device.

[Ans: Please see the file of "GPS-Block Diagram.pdf"](#)

10. Please explain the test setup photos. What is the device connected by a green wire to the EUT? What function does it have in the testing of the BT device? Is this what is referred to as the command board? Is this a modular approval? If so, please provide the appropriate documentation to support a modular BT device. Please give a detailed explanation of the test setup and what the different components are and for what they are used.

[Ans: The green line link BT modular to command board. This command board and software support from the customers and let BT modular on test mode. If we don't have command board and software, we can't control the BT modular to change test channels or change test mode to DH1/3/5. The general user can't get this command board and software.](#)

11. Is this application also for a NB letter of opinion? If so, please provide the NB application form, DoC and other missing EU documentation as soon as possible.

[Ans: I have uploaded some EU documentation to ATCB webs.](#)

