



FCC ID: PWO460007

CT Project: P13a0013

From: Daniel Park

Date: 1/27/14

1. Please provide the "inside antenna" specification for the booster.

Wilson: It was agreed upon in ANSI C63 that 10 dB would be acceptable for a coupled device because the phone is in the near field it is not acting as an antenna, but as a coupler. This can be seen in the MSCL exhibit.

2. Please show how the "internal antenna" will be connected to the booster circuit and show the location of the inside antenna in the device.

Wilson: The internal antenna is connected to the booster circuit as shown in the block diagram exhibit. The location of the inside antenna and the location of the connector are indicated on the exhibit "Antenna Info.pdf".

3. Please provide the details on the regular USB port function in the external and internal photo exhibits.

Wilson: The USB port functions as a charging port for the cellular device in use with the booster.

4. Please confirm the micro USB port for just power or something else.

Wilson: The micro USB port is just for powering the booster.

5. At the page 5 of RF test report, please provide the full name of KDB instead of stating as "the latest version of KDB 935210".

CT: Report has been corrected to match which version was used, "August 7, 2013"

6. At the page 13 of RF test report for "Maximum Power and gain, the rule part 20.21(e)(8)(i)(C)(2)(iii) should be also applicable due to inside of vehicle use as "User Manual" described. Please verify and show the compliance under this rule part as necessary.

CT: Report has been corrected to use limit of 23dB (Uplink and Downlink Gain Test Results).

7. At the pages 55 & 77 of the RF test report and "RF Exposure\_Antenna Kitting\_PWO460007", the frequencies information for some of 700MHz band do not agree with the various locations in the RF test report and other exhibits. Please revise the frequency numbers as below for consistency: 777MHz to 776MHz or/and 734MHz to 728MHz.

CT: Report was been corrected. (5 locations and 2 locations)

8. At the page 56 of RF test report, it indicates the additional spurious emissions requirement under FCC 27.539(C)(3) for "base and fixed stations". However, "Operational Description" and "User manual" indicate that the booster could be used inside of vehicle as well. Therefore, the rule part 27.53(c)(4) should be included in the test report. Please verify.

CT: Report Test Result Summary has been updated to reflect this.

9. At the page 57 of RF test report, it states rule part FCC27.53(f) as the title. However, the actual content is for FCC 27.53(e). Please verify and correct the information as necessary.

CT: Report has been fixed for this new FCC rule change that occurred on Jan 6, 2014

10. At the page 76 of RF test report, it states only "Fixed Booster Maximum Noise Power". As mentioned earlier, this particular booster was designed for in-car use as well. Therefore, the rule part 20.21(e)(8)(i)(2)(ii) should be included for the "Mobile" limit which is -59 dBm/MHz. Please verify.

CT: Report was been updated with new limit of -59 dBm/MHz.

Response by: Mike Graffeo for CT & Wilson

Submitted by: Compliance Testing LLC

Date: 1/29/14