



motorola

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15 August 2013

Authorization & Evaluation Division
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Request to Amend Original Equipment Application for Certification of transmitter with FCC ID: IHDT56PB2, PCS Handsets, with Wi-Fi and Bluetooth.

Gentlemen;

Motorola Mobility LLC; 8000 W. Sunrise Blvd.; Plantation, FL 33322 herein submits this request to amend its Original Equipment application for the certified multi-mode handset with FCC ID: **IHDT56PB2**, originally granted on 21 May 2013.

Description of Transceiver:

The primary transceiver in this composite device operates in the Land Mobile Radio Service (800 MHz, Band Class 10), the 850 MHz Public Mobile Service (PMS), and the 1900 MHz Personal Communications Service (PCS). It supports CDMA signaling, and employs CDMA 1X and EV-DO operating capabilities.

This mobile device is also equipped with an LTE transceiver. This LTE transceiver supports high-speed wireless data communications within LTE Band 25, with channels up to 20 MHz in bandwidth. The LTE device complies with Part 24 (Subparts B and E).

This radio product is also equipped with a Wi-Fi (802.11a/b/g/n/ac) transceiver. Wi-Fi supports both voice and data for short range wireless communications. The Wi-Fi Bands of Operation is 2.412 - 2.462 GHz, 5.180 – 5.240 GHz, and 5.745 – 5.825 MHz for 802.11a/b/g/n/ac operation. The Wi-Fi device complies 15.247 (c), 15.407, 15.205 and 15.209 (b).

This radio product is equipped with a Bluetooth (BT) transceiver. BT supports both voice and data for short range wireless communications. The Bluetooth Band of Operation is 2.402 - 2.480 GHz. The BT device complies with the requirements of FCC Rule Parts 15.247 (c), 15.205 and 15.209 (b).

This product also supports NFC operation as a low-power itinerant transmitter.

Description of Document Amendments:

While working on an unrelated application, we discovered that SAR reports generated using SPEAG's reporting tool (included with DASY V) and default reporting template could have incorrect SAR probe conversion factors indicated on SAR plots. A defect in the default reporting template was such that, no matter what the actual SAR test configuration, the template chose the probe conversion factor corresponding to 1810 MHz Head Tissue to display on the SAR plot. The relevant portion of the reporting template is shown below, along with the correction:

Original:

DASY Configuration:

Probe: <info/probe_name>;

ConvF(<Conv_Factors/1/Sensor/0/Factor>,<Conv_Factors/1/Sensor/0/Factor>,<Conv_Factors/1/Sensor/0/Factor>); Calibrated: <info/probe_calibdate>;

Sensor-Surface: <Grid/Shortest_Distance_From_Surface> mm (<Grid/SurfaceDetection>)

Electronics: <info/dae_name>; Calibrated: <info/dae_calibdate>

Phantom: <info/phantom_name>; Type: <info/phantom_type>; Serial: <info/phantom_serial>

<InfoFields/HTML/Software: DASY Ver_short>; <InfoFields/HTML/Software: SEMCAD

Corrected:

DASY Configuration:

Probe: <info/probe_name>;

ConvF(<Conv_Factors/used/Sensor/0/Factor>,<Conv_Factors/used/Sensor/0/Factor>,<Conv_Factors/used/Sensor/0/Factor>); Calibrated: <info/probe_calibdate>;

Sensor-Surface: <Grid/Shortest_Distance_From_Surface> mm (<Grid/SurfaceDetection>)

Electronics: <info/dae_name>; Calibrated: <info/dae_calibdate>

Phantom: <info/phantom_name>; Type: <info/phantom_type>; Serial: <info/phantom_serial>

<InfoFields/HTML/Software: DASY Ver_short>; <InfoFields/HTML/Software: SEMCAD

Impact of Change:

As indicated above, the defect only resulted in incorrect configuration data being shown on the plots as originally submitted. It did not result in incorrect probe conversion factors being applied for any measurement, nor did it impact upon the accuracy of the collected SAR data in any way.

As the defect in the reporting template was easily corrected (see above), and at the request of the FCC, we are now submitting an amended SAR Appendix document to update the application record.

Conclusion:

This transceiver continues to meet all FCC requirements for which the original authorization was granted. The RF exposure data originally submitted for this application continue to be applicable to this application. Only the probe conversion factor shown on certain plots has been amended.

Enclosed is an amended SAR test report (Part 1), and an amended SAR Supplemental test report. Contact me at (954) 723-6272 if you require any additional information.

Attachments:

1. Exhibit 11 (Amended SAR report - *IHDT56PB2_Ex_11 (RF Exposure Test Report - 25377-1F - Part 1 of 2) Rev-A.pdf*).
2. Exhibit 11A (Amended SAR Supplemental Report - *IHDT56PB2_Ex_11A (SAR Supplemental Test Report - 25377-1F) Rev-A.pdf*).