



motorola

a Google company

21 July 2014

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

**Subject: Application for Class II Permissive Change to Certified transmitter with FCC ID: IHDT56PE2, CDMA/UMTS PCS Handset with LTE, Wi-Fi, and Bluetooth.**

Gentlemen;

Motorola Mobility LLC; 8000 W. Sunrise Blvd.; Plantation, FL 33322 herein submits its application for a Class II Permissive Change to the certified multi-mode handset with FCC ID: **IHDT56PE2**.

**Description of Transceiver:**

The primary transceiver in this composite device operates in 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. Support is also provided in these bands for WCDMA and GSM signaling, and employs GPRS Class 12 and EDGE Class 12 capabilities. This transceiver also operates in the WCDMA mode in these bands.

This mobile device is also equipped with an LTE transceiver. This LTE transceiver supports high-speed wireless data communications within LTE Bands 4 and 13, with varying channel bandwidths of (based on the 3GPP standard) up to 20 MHz. The LTE device complies with Part 24 (Subpart E) and Part 27 (Subpart C).

This radio product is also equipped with a Wi-Fi (802.11a/b/g/n) 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 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 (1 MHz channel bandwidth). 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 Changes:**

This equipment was originally authorized for Hearing Aid Compatibility under the C63.19-2007 standard. The intent of this application is to add HAC certification for the LTE air interface, per the C63.19-2011. This change is accomplished entirely by modification to the device's software. No hardware changes of any kind are implemented.

**Impact of Change:**

The change adds capabilities to warrant a HAC rating on the PCE grant for the LTE operating modes, per the C63.19-2011 standard. There is no additional impact to any parameters already on file with the FCC for this device.

Note that FCC guidance concerning HAC Permissive Changes that calls for assigning a unique model number to the changed device (KDB 285076 D01 (HAC Guidance), paragraph 25) does not apply in this case. This is because all devices in the field will be upgraded via an Over-the-Air software push, and as such there is no need for model differentiation. In any event, the HAC rating for this device did not change.

Note also that the required User Manual notifications (per 47 CFR 20.19) are present in the User Guide originally filed for this device, so no updated exhibit is necessary.

**Conclusion:**

This transceiver continues to meet all FCC requirements for which the original authorization was granted. The changes described, therefore, meet the requirements for a Class 2 Permissive Change, in accordance with 47 CFR 2.1043.

Enclosed are an amended test report, and Statements of Certification. Contact me at (954) 590-0254 if you require any additional information.

**Attachments:**

1. Exhibit 2 (Statements of Certification).
2. Exhibit 6 (New RFE and Telecoil HAC reports).
3. Exhibit 7 (Test Set-up Photographs).
4. Exhibit 12A (Transceiver Characteristics Supplement).
5. Exhibit 13B (Confidentiality Request).