



22 June 2015

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

**Subject: Application for a Class II Permissive Change to Certified Transmitter with FCC ID: IHDT56QD2, PCS Handsets, with LTE, Wi-Fi, Bluetooth, and NFC.**

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: **IHDT56QD2**.

**Description of Transceiver:**

The primary transceiver in this composite device operates in the 850 MHz Public Mobile Service (PMS), the 1700 MHz Advanced Wireless Service (AWS), and the 1900 MHz Personal Communications Service (PCS). It supports WCDMA signaling in these bands, and GSM signaling, employs GPRS Class 12 and EDGE Class 12 capabilities, in the PMS and DCS bands.

This mobile device is also equipped with an LTE transceiver. This LTE transceiver supports high-speed wireless data communications within LTE Bands 5 and 41, with channels up to 20 MHz in bandwidth. The LTE device complies with Part 22 (Subpart H) and Part 27 (Subpart C).

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 are 2400 – 2483.5 MHz ISM band, 5150 – 5250 MHz U-NII Band 1, 5250 – 5350 MHz U-NII Band 2A band, 5470 – 5725 MHz U-NII Band 2C, and 5725 – 5850 MHz U-NII Band 3 for 802.11a/b/g/n/ac operation. The Wi-Fi device complies 15.247, 15.407, 15.205 and 15.209.

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, 15.205 and 15.209.

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

This radio product features an integrated GPS receiver, and is designed to function as a computer peripheral device when functioning as an RF modem, while connected to a computer via a data cable, as described in 47 CFR Part 15.3(r).

**Description of Changes:**

Recent FCC rule changes allow operation on U-NII-2C, Channel 144. This capability is now being added to the certification. This is being accomplished by a software change only, and entails no changes to the device's design or hardware. Units already in the field will be updated via an over-the-air software update.

**Impact of Change:**

The sole impact of this change is to add additional operating frequency to the NII Grant of Authorization for this device. There is no impact upon the SAR, HAC, or EMC data already on file with the Commission for this device.

**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 and KDB Publication 178919 D01.

Enclosed are an amended exhibits and test report supporting this change. Contact me at (954) 590-0254 if you require any additional information.

**Attachments:**

1. Amended 731 Form.
2. Amended Exhibit 02 (Statements of Certification).
3. Amended Exhibit 12 (Transmitter Characteristics).