



**MOTOROLA**

**Date:** November 16, 2006

**Subject:** Request for additional information regarding FCC ID: IHDT56FP2

**Reference:**

|                                  |                   |
|----------------------------------|-------------------|
| Correspondence Reference Number: | IHD0720           |
| Confirmation Number:             | 11060720-745      |
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Questions and responses follow:

1. Please verify that the loop antenna used for the Section 15.225 transmitter measurements was rotated 360 degrees on its vertical axis in an effort to maximize emissions.

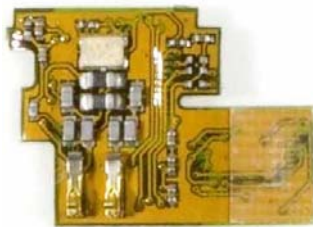
**Response:** Yes, the loop antenna was peaked.

2. Please describe the antenna and antenna connector used for the Section 15.225 transmitter.

**Response:** The NFC antenna is a multi-turn shortened balanced loop which connects through two pins to a matching network on a small PCB. Please refer to the following photos:



*Antenna and PCB connections*



*PCB Connections*



*Antenna*

3. Please address the following 4 requirements for frequency hopping spread spectrum transmitter (Bluetooth) from Section 15.247(a)(1):
- Is the hopping sequence pseudorandom?
  - Are all channels used equally on average?
  - Does the receiver input bandwidth approximately equal the transmit bandwidth?
  - Does the receiver hop in sequence with the transmit signal?

**Response:** This device contains an embedded Bluetooth device and Motorola confirms compliance with the following Part 15 regulations.

**15.247(a)(1)**

- the hopping sequence must be pseudorandom
- all Channels are used equally on average
- the receiver input bandwidth is approximately equal to the transmit bandwidth
- the receiver hops in sequence with the transmitted signal

4. Please address Section 15.247(g) and (h) for the Bluetooth transmitter.

**Response:** This device contains an embedded Bluetooth device and Motorola confirms compliance with the following Part 15 regulations.

**15.247(g)**

the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information)

**15.247(h)**

the system does not coordinate its channel selection/hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters

5. Please provide the spurious radiated emission data for emissions in Restricted Bands for the Bluetooth transmitter.

**Response:** Please refer to exhibit 6A2.

6. Can the EUT connect to a pc? If so, then it must be authorized either through certification of DoC (and the statement from Section 15.105 must be included in the user's manual prior to shipment). Please address.

**Response:** Computer peripheral certification data is provided in exhibit 6A1 (please refer to photos in exhibit 7A). The final manual will contain the statements required in Section 15.105.