



**MOTOROLA**

**Date:** June 10, 2010

**Subject:** Request for additional information regarding FCC ID: IHDT56LD1

**Reference:**

Correspondence Reference Number: IHD100475  
Confirmation Number: 1Y1004190475  
Date of Original Email: June 8, 2010

**Prepared by:**

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Questions and responses follow:

1. Please resubmit the user's manual, including the required HAC language.

**RESPONSE:** [Please refer to the revised user's manual submitted online.](#)

2. Please submit a block diagram for the DTS transmitter listing all clock/oscillator values (p.3/4 of the Block Diagram document is a schematic, and does not appear to show the clock/oscillator values).

**RESPONSE:** [Please refer to the revised block diagrams submitted online.](#)

3. The BT block diagram (p.2/4 of the Block Diagram document) does not list the clock/oscillator values. Please revise and resubmit.

**RESPONSE:** [Please refer to the revised block diagrams submitted online.](#)

4. Please revise the tune-up procedure to include the max output power target levels set at the factory, along with the acceptable deviation from the target levels, for GSM and WCDMA operation (both bands).

**RESPONSE:** [Please see below:](#)

**[TRANSCEIVER ADJUSTMENTS / TUNE-UP PROCEDURE](#)**

There are no user accessible adjustments or tuning in this portable cellular transceiver. All necessary adjustments and tuning are performed during manufacture of the product. Any adjustments or tuning after service or repair are done as part of that process, as special equipment is required to perform such adjustments.

**Note:**

The conducted power levels in the SAR, EMC, and HAC reports (when applicable), are within +/- 0.2 dB of the maximum allowed factory value. The amplitudes of factory "target" levels are always lower.

5. The PCE EMC report, p.8/50, states that an "RMC" detector was used for the PCS GSM EIRP measurements. Should this be "RMS"? If so, please revise. If not, please explain what an RMC detector is.

**RESPONSE:** Please refer to the revised PCE EMC report submitted online.

6. In the DTS conducted EMC report, p.19/45 states that these are "peak" output power measurements, however, the plots show "RM" on the left side, where "PK" is normally displayed. In addition, these are the same levels as those listed in the SAR report, where average measurement data is used. Are these actually RMS average measurements? I note that, in typical 802.11b/g configurations, the b mode avg levels exceed the g mode avg levels, as is the case here, but g mode peak levels typically exceed b mode peak levels. Please clarify.

**RESPONSE:** Please refer to the revised Exhibit 6A5 submitted online.

7. In the DTS conducted EMC report, 802.11b conducted output power measurements were only performed at the lowest available data rate. Please confirm that the other data rates were also investigated, and that the data provided represents the highest levels.

**RESPONSE:** Please refer to the revised Exhibit 6A5 submitted online.

8. DTS radiated emissions (RE) were measured in 802.11b mode at 11 Mbps, and 802.11g mode at 54 Mbps (p.5/40). Please justify these choices. Output power data was not provided at these data rates- were other data rates also investigated for RE? Please address.

**RESPONSE:** The WLAN conducted power level is measured for all the data rates supported across all modes. The data rate with the higher conducted power level for each mode is evaluated for Conducted and Radiated requirements. Please refer to the revised DTS reports.

9. Please provide RF conducted bandedge plots for the DTS transmitter in the appropriate modes of operation, demonstrating compliance with the 20 dBc limit if output power was measured in peak mode, or with the 30 dBc limit if output

power was measured in avg mode (see question 6, above).

**RESPONSE:** Please refer to the revised Exhibit 6A5 submitted online.

10. Page 4/84 of the SAR report lists a max output power level for 802.11 operation that exceeds the actual levels measured in the DTS EMC report by nearly 3 dB. Please address.

**RESPONSE:** Please refer to the revised SAR report submitted online.

11. The SAR report shows multiple batteries available to the EUT. Please confirm that EMC measurements (ERP/EIRP/conducted output power) were investigated with all available batteries, and that the data submitted represents the worst case. Please revise the PCE, DTS and DSS test reports to indicate the specific battery used for testing.

**RESPONSE:** All EMC testing was performed with Model SNN5819B - 1130 mAH Battery. This battery will be shipped with the EUT. All EMC test reports are updated to include the battery used.

12. Table 4 on page 5 of the HAC RFE report incorrectly lists "E-field Results" in the header of the second portion of the table. This portion of the table is providing "H-field" data, please revise.

**RESPONSE:** Please refer to the revised HAC report submitted online.

13. FYI: as requested previously, in the future please provide data, such as output power and radiated emissions, for the DTS and DSS test reports, in tabular form, instead of submitting scores of plots (only the plots for the worst-case values need be submitted). This will greatly aid in reducing the amount of time required for review.

**RESPONSE:** Noted.