

Date: March 27, 2007

Subject: Request for additional information regarding FCC ID: IHDT56GZ1

Reference:

Correspondence Reference Number: IHD7233
Confirmation Number: 703220233
Date of Original Email: March 26, 2007

Prepared by:

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Questions and responses follow:

1. Please supply 1900 MHz GSM Cond/Rad Spurs data.

Response: Please refer to the included data.

2. Equipment in Page 5 indicates equipment past calibration due dates. Please explain.

Response: All equipment was in calibration during the time of testing.

3. Please confirm if the FM radio is a FM receiver only or if it includes FM transmitter features.

Response: The FM radio feature is a receiver only. There is no FM transmitter feature in this Phone.

SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Measurement Procedure

The RF output port of the Equipment Under Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

The spectrum was investigated from the lowest frequency signal generated, without going below 9 kHz, up to at least the tenth harmonic of the fundamental or 40 GHz, whichever is lower.

The spectrum analyzer settings were as follows:

Units dBm Divisions 10 dB

Detector Peak Detector

Resolution Bandwidth 1 MHz
Video Bandwidth (AVG) Auto
Sweep Time Auto

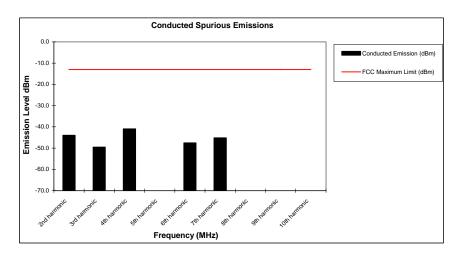
Measurement Results

Attached

Measurement Results Modulation: GSM 1900

Conducted Spurious and Harmonic Emissions

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-44.0
3rd harmonic	-13	-49.6
4th harmonic	-13	-41.0
5th harmonic	-13	*
6th harmonic	-13	-47.5
7th harmonic	-13	-45.1
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



Notes:

- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- 3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

FCC ID: IHDT56GZ1

FIELD STRENGTH OF SPURIOUS EMISSIONS

Measurement Procedure

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The equipment under test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole. A fully charged battery was used for the supply voltage.

The settings of the receiver were as follows:

Units dBm Divisions 5 dB

Detector Peak Detector

Resolution Bandwidth 1 MHz Video Bandwidth (AVG) Auto Sweep Time Auto

Measurement Results

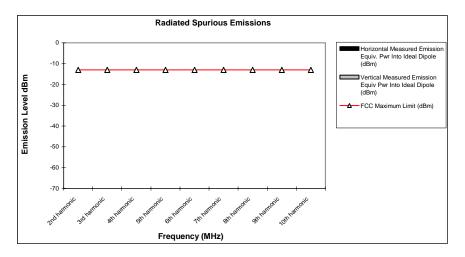
Attached

Measurement Results

Modulation: GSM 1900

Radiated Spurious and Harmonic Emissions

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*



Notes:

- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- 3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.