



CONFORMANCE TEST REPORT FOR FCC 47 CFR, Part 2 and Part 22 Subpart H

Report No.: 07-03-MAS-151-02

Client: Nokia Inc.
 Product: CDMA 2000 1xRTT Mobile Phone
 Trade name: RM-219
 Model No.: 7088
 FCC ID: QMNRM-219
 Manufacturer/supplier: Foxconn International Holdings Limited
 Date test item received: 2007/03/16
 Date test campaign completed: 2007/03/16
 Date of issue: 2007/03/19

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Total number of pages of this test report: 14 pages

Total number of pages of photos: External photos 6 pages

Internal photos 6 pages

Setup photos 1 pages

Test Engineer	Checked By	Approved By
 James	 James	 Joe Hsieh

ELECTRONICS TESTING CENTER, TAIWAN
 NO.8, LANE 29, WEN-MING RD.,
 LO-SHAN TSUN, KUI-SHAN HSIANG,
 TAOYUAN HSIEN 333
 TAIWAN, R.O.C.

TEL: (03) 3276170~4
 INT: +886-3-3276170~4
 FAX: (03) 3276188
 INT: +886-3-3276188

Client	: Nokia Inc.
Address	: 12278 Scripps Summit Dr. San Diego CA 92131 USA
Manufacturer	: Foxconn International Holdings Limited
Address	: No.2, 2nd DongHuan Road, 10th YouSong Industrial District, Longhua Town, Baoan, Shenzhen, GuangDong, China
EUT	: CDMA 2000 1xRTT Mobile Phone
Trade name	: RM-219
Model No.	: 7088
Power Source	: Adapter : Nokia / AC-3C Input: 100-240Vac, 50-60Hz, 65mA Output: DC 5V, 350mA
Regulations applied	: FCC 47 CFR, Part2 and Part 22 Subpart H
Version / Status	: 1.0 Final

Version	Date	Status	Comments
1.0	2007/03/19	Final	

- ISO9001: TÜV Product Service
- ISO/IEC 17025: BSMI, CNLA, DGT, NVLAP, CCIBLAC, UL, Compliance
- Filing: FCC, Industry Canada, VCCI
- MRA: Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through CNLA
- FCC Registration Number: 90588, 91094, 91095
- Canada IC Registration Number: 2949-1, 2949-2



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1. GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : CDMA 2000 1xRTT Mobile Phone
- b) Trade Name : RM-219
- c) Model No. : 7088
- d) Hardware : 4000
- e) Software : FW_UNC_MS02520_B0616
- f) ESN : 02609019683
- g) Frequency Range : Tx: 824-849 MHz Rx: 869-894 MHz
- h) Max ERP : 21.4 dBm
- i) Emission Designator : 1M43F9W
- j) Antenna Type : Fixed Internal
- k) Modulation Type : QPSK

1.2 Characteristics of Device

CDMA2000 800MHz Cellular Phone, offering data rates up to 153 kbs on the forward and reverse links, 1xRTT, VGA 300K, TFT 65K 128X160 Resolution 1.8”.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on ANSI C63.4 , ANSI/TIA-603-C and FCC CFR 47 Parts 2.947, 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057, Part 22 and Part 24.

1.4 Modification List of EUT

N/A

1.5 Test Facility

The semi-anechoic chamber and conducted measurement facility used to collect the radiated and conducted data are located inside the Building at No.8, Lane 29, Wen-ming Road, Lo-shan Tsun, Kweishan Hsiang, Taoyuan, Taiwan, R.O.C.

This site has been accreditation as a FCC filing site.

1.6 Test Summary

Test Performed	Reference	Result
Field Strength of Spurious (Radiated)	FCC §2.1053	Complies

2. SYSTEM TEST CONFIGURATION

2.1 Justification

For the purposes of this test report ancillary equipment is defined as equipment which is used in conjunction with the EUT to provide operational and control features to the EUT during the test. The simulate equipment was used to control the RF channel under the highest, middle and lowest frequency and transmit the maximum RF power.

2.2 Devices for Tested System

Device	Manufacture	Model	Cable Description
*CDMA 2000 1xRTT Mobile Phone	Foxconn International Holdings Limited	7088	----
Adapter	Nokia	AC-3C	1.8m*1, Unshielded Power Line
Headset	Nokia	HS-9	1.2m*1, Unshielded Signal Line
Battery	Nokia	BL-4B	----

Remark “*” means equipment under test.

Test Channel – Frequency comparison table for test:

CDMA 800	
Channel	Frequency (MHz)
1013	824.70
384	836.52
777	848.31

3. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

3.1 Standard Applicable

According to FCC §2.1053

3.2 Measurement Procedure

The setup of the EUT as shown in figure 1 and figure 2. The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

Note: Frequency to be investigated up to the 10th harmonic of the highest clock or frequency used.

3.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
EMI Test Receiver	R&S	ESIB7	05/25/2007
Spectrum Analyzer	Rohde & Schwarz	FSU46	10/31/2007
Horn Antenna	EMCO	3115	06/06/2007
BiLog Antenna	Schaffner	CBL 6112B	06/11/2007
Horn Antenna	COM-POWER	AH-118	04/16/2007
Preamplifier	Hewlett-Packard	8449B	09/17/2007
SYNTHESIZED SWEEPER	AGILENT	83640B	09/22/2007
DIPOLE ANTENNA	SCHWRZBECK	914; 915	07/13/2007
DIPOLE ANTENNA	SCHWRZBECK	897; 898	07/13/2007
Wireless Com. Test Set	Agilent	8960	02/21/2008

Figure 1: Frequencies measured below 1 GHz configuration

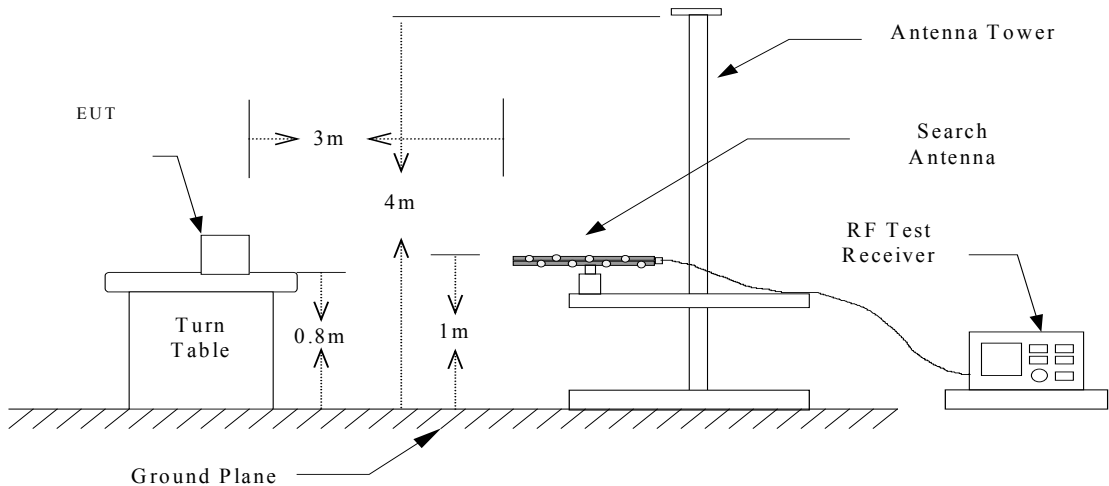
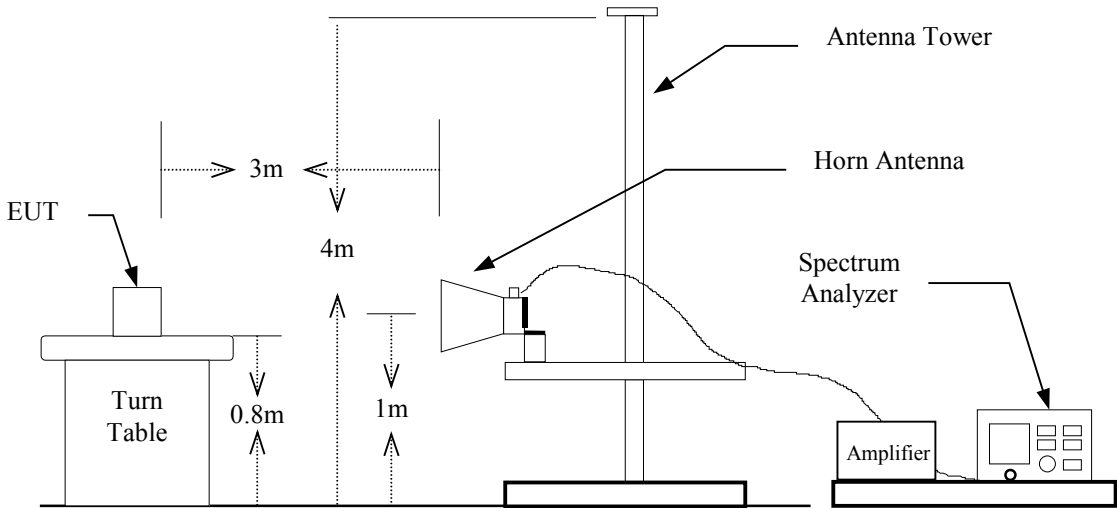


Figure 2 : Frequencies measured above 1 GHz configuration



3.4 Test Result

Test Date : Mar. 19, 2007Temperature : 18°CHumidity : 65%

EUT Status: Operated at max power

Operated mode : CDMA800 / CH1013

Frequency (MHz)	Antenna Pol.	Reading (dBuv)	Factor (dB)	Result @3m (dBuv/m)	Result (dBm)	Limit (dBm)
1649.038	H	64.7	-11.0	53.7	-41.5	-13.0
1649.038	V	59.8	-11.0	48.8	-46.4	-13.0
2471.153	H	62.1	-7.0	55.1	-40.1	-13.0
2471.153	V	60.9	-7.0	53.9	-41.3	-13.0

Operated mode : CDMA800 / CH384

Frequency (MHz)	Antenna Pol.	Reading (dBuv)	Factor (dB)	Result @3m (dBuv/m)	Result (dBm)	Limit (dBm)
1663.462	H	59.6	-11.0	48.6	-46.6	-13.0
1663.462	V	56.9	-11.0	45.9	-49.3	-13.0
2500.000	H	55.3	-6.7	48.6	-46.6	-13.0
2500.000	V	57.7	-6.7	51.0	-44.2	-13.0

Operated mode : CDMA800 / CH777

Frequency (MHz)	Antenna Pol.	Reading (dBuv)	Factor (dB)	Result @3m (dBuv/m)	Result (dBm)	Limit (dBm)
1692.308	V	52.2	-11.0	41.2	-54.0	-13.0
2543.269	V	56.0	-6.7	49.3	-45.9	-13.0

Note:

1. Place of Measurement: Measuring site of the ETC.
2. The estimated measurement uncertainty of the result measurement is
 $\pm 4.6\text{dB}$ ($30\text{MHz} \leq f < 300\text{MHz}$).
 $\pm 4.4\text{dB}$ ($300\text{MHz} \leq f < 1000\text{MHz}$).
 $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$).

