HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.



PRODUCT COMPLIANCE DIVISION
SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNGKI-DO, 467-701, KOREA

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CERTIFICATE OF COMPLIANCE

FCC Part 24 Certification

AXESSTEL INC.

6480 Weathers Place, Suite 300, San Diego, CA 92121, United States

FRN: 0008827313

Date of Issue: Jun.04, 2007

Test Report No.: HCT-SAR07-0601

Test Site: HYUNDAI CALIBRATION & CERTIFICATION

TECHNOLOGIES CO., LTD.

FRN: 0005866421

FCC ID

:

PH7PX330

APPLICANT

AXESSTEL INC.

EUT Type:

Fixed WLL Telephone (PCS CDMA)

Tx Frequency:

1851.25 — 1908.75 MHz (PCS CDMA)

Rx Frequency:

1931.25 — 1988.75 MHz (PCS CDMA) 0.270 W EIRP CDMA (24.32 dBm)

Max. RF Output Power: Trade Name/Model(s):

AXESSTEL / PX330

FCC Classification:

PCS Licensed Transmitter (PCB)

Application Type:

Certification

FCC Rule Part(s):

§24(H), §2 1.12 W/kg PCS CDMA Body SAR

Maximum SAR:

Manufacturer: HANKOOK ANTENNA CO., LTD.

PN: TB-P1900-SMA (Length= 148.5±1.0mm)

Emission Designator(s):

Antenna Specifications:

1M28F9W

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in $\oint 2.947$.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech Co., Ltd. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti- Drug Abuse Act of 1998, 21 U.S. C. 853(a)

Report prepared by

: Young-Kwan Kim

: Sang- Jun Lee

Approved by

Test Engineer of RF Part

Manager of RF Part



Table of Contents

A: C	OVER LETTER(S)	
B: A	TTESTATION STATEMENT(S)	
C: TE	EST REPORT	
	1.1 SCOPE	3
	2.1 INTRODUCTION	4
	3.1 INSERTS PER §2.1033(d)	5
	4.1 DESCRIPTION OF TESTS	6-13
	5.1 EFFECTIVE RADIATED POWER OUTPUT	14
	6.1 RADIATED MEASUREMENTS	15-17
	7.1 FREQUENCY STABILITY	18
	8.1 PLOTS OF EMISSIONS	19
	9.1 LIST OF TEST EQUIPMENT	20
	10.1 SAMPLE CALCULATIONS	21
	11.1 CONCLUSION	22
D:	TEST PLOT	
E:	ID LABEL	
F:	TEST SETUP PHOTO RF	
G:	EXTERNAL PHOTO	
H:	INTERNAL PHOTO	
l:	ANTENNA SPECIFICATION	
J:	BLOCK DIAGRAM	
K:	CIRCUIT DIAGRAM	
L:	PART LIST	
M:	OPERATIONAL DESCRIPTION	
N:	USER'S MANUAL	
O :	SAR REPORT	
P:	SAR TEST SETUP PHOTO	
Q:	TUNE-UP PROCEDURE	
R:	EMI PART 15B TEST REPORT	

MEASUREMENT REPORT

1.1 SCOPE

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

General Information

Company Name: AXESSTEL INC.

Address: 6480 Weathers Place, Suite 300,

San Diego, CA 92121, United States

Attention: David Kim

Tel. / Fax: 858- 625-2100 / 858- 625- 2110

E-Mail: dskim@axesstel.com

FCC ID: PH7PX330

Quantity: Quantity production is plannedEUT Type: Fixed WLL Telephone (PCS CDMA)

. Trade Name: AXESSTEL . Model(s): PX330

Serial Number(s): PH7PX330 #1Emission Designator(s): 1M28F9W

. Tx Frequency: 1851.25 - 1908.75 MHz (PCS CDMA) . Rx Frequency: 1931.25 - 1988.75 MHz (PCS CDMA)

. Application Type: Certification

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): §24(H), §2Modulation(s): PCS CDMAAntenna Type: Removable

Max RF. Output Power: 0.270 W EIRP CDMA (24.32dBm)

Date(s) of Tests: Jun. 1, 2007~ Jun. 2, 2007

Place of Tests: Hyundai C-Tech. EMC Lab.

Icheon, Kyounki-Do, KOREA

. Report Serial No.: HCT-SAR07-0601

3 of 22

2.1 INTRODUCTION

EUT DESCRIPTION

The AXESSTEL INC. PX330 Fixed WLL Telephone (PCS CDMA). Its basic purpose is used for communications. It transmits from CDMA(1851.25 — 1908.75)MHz and receives from CDMA(1931.25 — 1988.75)MHz. The RF power is rated at CDMA (0.270 W)

MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

Test Facility

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1,Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 5, 2006(Confirmation Number: 90661)

3.1 INSERTS

Function of Active Devices (Confidential)

The Function of active devices are shown in Attachment K.

Block/Circuit Diagrams & Description (Confidential)

The circuit diagrams & description are shown in Attachment J, and the block diagrams are shown in Attachment I.

Operating Instructions

The instruction manual is shown in Attachment M.

Parts List & Tune-Up Procedure (Confidential)

The parts list & tune-up procedure are shown in Attachment L.

Description of Freq. Stabilization Circuit (Confidential)

The description of frequency stabilization circuit is shown in Attachment K.

<u>Description for Suppression of Spurious Radiation, for Limiting</u> <u>Modulation, and Harmonic Suppresion Circuits (Confidential)</u>

The description of suppression stabilization circuits are shown in Attachment K

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4.1 DESCRIPTION OF TESTS

Out power Variation

Test condition to measure the Output power

This device was tested under all R.C.s and worst case is reported with RC3/SO55, with "All Up" power control bits.

The following procedures were followed according to FCC "SAR Measurement Procedures for 3G Devices", May 2006

- 1. If the mobile station supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
- 2. Under RC1, C.S0011 Table 4.4.5.2-1 (Table 1) parameters were applied.
- 3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH0 and demodulation of RC 3, 4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH0 data rate Channel and 9600 bps SCH0 data rate.
- 4. Under RC3, C.S0011 Table 4.4.5.2-2(Table 2) was applied.
- 5. FCHs were configured at full rate for maximum RF with "All Up" power control bits.

Parameters for Max. Power for RC1

Parameter	Units	Value
Îor	dBm/1.23 MHz	-104
Pilot E _c	dB	-7
$\frac{\text{Traffic E}_{c}}{I_{or}}$	dB	-7.4

Parameters for Max. Power for RC3

Parameter	Units	Value
Îor	dBm/1.23 MHz	-86
$\frac{\text{Pilot } E_c}{I_{or}}$	dB	-7
Traffic E _c	dB	-7.4

Table. 1 Table. 2

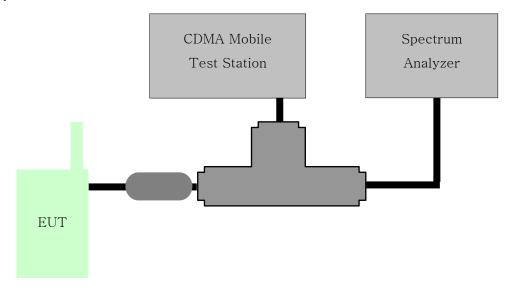
Average Output Power Measurement for FCC ID: PH7PX330

Band	Channel	SO2	SO2	SO55	SO55	TDSO SO32
		RC1/1	RC3/3	RC1/1	RC3/3	RC3/3
PCS	25	23.98	24.01	23.95	24.04	24.05
	600	24.04	23.98	24.02	24.01	24.03
	1175	23.97	23.91	23.94	23.97	24.00

4.1 DESCRIPTION OF TESTS

4.1 Conducted RF Power Test

Test Set-up



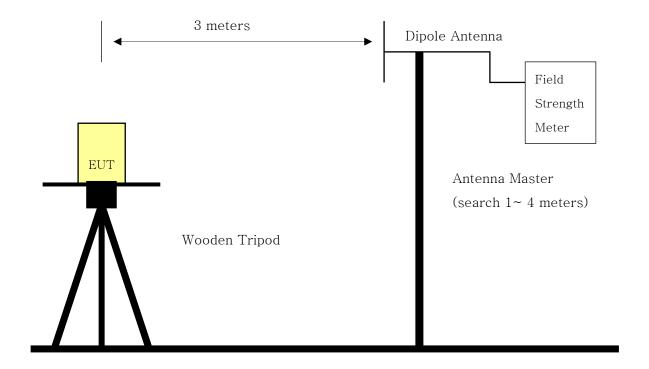
Test Procedure

According to FCC §2.1046 (A), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

- The EUT was coupled to the spectrum analyzer and the base station simulator through a power divider. The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The lost of the cables the test system is calibrated to correct the reading.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution banswidth of the spectrum analyzer was comparable to the emission bandwidth. For GSM signal, VBW = RBM = 1 MHz; for CDMA signal, VBW = RBW = 3 MHz.

4.2 Effective Radiated Power.

Test Set-up



Open Field Test Site

Test Procedure

The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section 2.948.

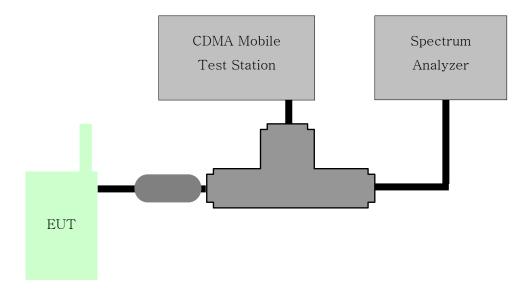
The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –2003. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotable wooden platform mounted at three from the antenna mast.

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with λ / 2 dipole antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item(4).
- 6) The signal generator output level is the rating of effective radiated power(ERP).
- 7) The instrument settings used (RBW/ VBW) during ERP/ EIRP output power measurement are as Belows:
 - -. Below 1 GHz : RBW 3 MHz, VBW 3 MHz -. Above 1 GHz : RBW 3 MHz, VBW 3 MHz

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4.3 Occupied bandwidth.

Test Set-up

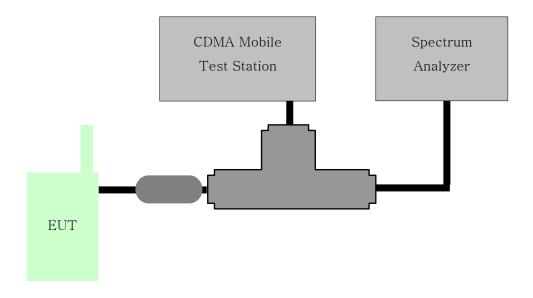


Test Procedure

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Plots of the EUT's occupied bandwidth are shown herein.

4.4 Spurious and Harmonic Emissions at Antenna Terminal.

Test Set-up

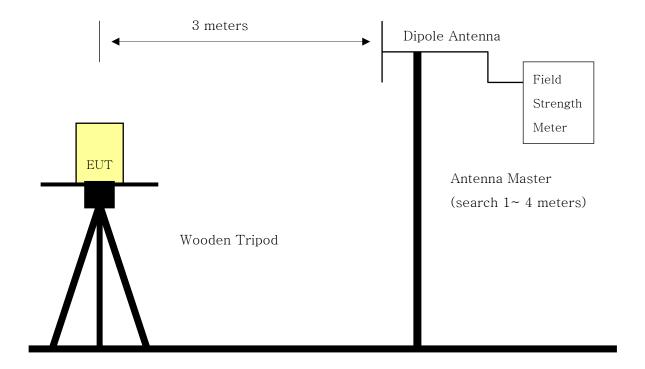


Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10 GHz. The transmitter is modulated with a 2500 Hz tone at a level of 16 dB greater than that required to provided 50 % modulation. At the input terminals of the spectrum an analyzer, an isolator (RF circulator with on port terminated with 50 ohms) and an 870 MHz to 890 MHz bandpass filter is connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The rejection of the bandpass filter to signals in the 825 ~ 845 MHz range is adequate to limit the transmit energy from the test transceiver which appears to a level which will allow the analyzer to measure signals less than - 90 dBm. Calibration of the test receiver is performed in the 870 ~ 890 MHz range to insure accuracy to allow variation in the bandpass filter insertion loss to be calibrated.

4.5 Field strength of spurious radiation.

Test Set-up



Open Field Test Site

Test Procedure

The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section 2.948.

The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –2003. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotable wooden platform mounted at three from the antenna mast.

- 1) The unit mounted on a wooden table 1.5 m imes 1.0 m imes 0.80 m is 0.8 meter above test site ground level.
- During the emission test, the turntable is rotated and the EUT is manipulated to find the configuration resulting in maximum emission under normal condition of installation and operation.
- 3) The antenna height and polarization are also varied from 1 to 4 meters until the maximum signal is found.
- 4) The spectrum shall be scanned up to the 10th harmonic of the fundamental frequency.
- 5) The instrument settings used (RBW/ VBW) during ERP/ EIRP output power measurement are as belows;
 - -. Below 1 GHz: RBW 3 MHz, VBW 3 MHz
 - -. Above 1 GHz: RBW 3 MHz, VBW 3 MHz

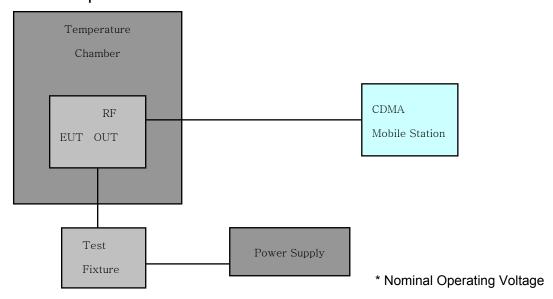
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4.6 Frequency stability.

4.6.1 Frequency stability with variation of ambient temperature.

Test Set-up



Test Procedure

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85 % to 115 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within \pm 0.0001 (\pm 1 ppm) of the center frequency.

Time Period and Procedure:

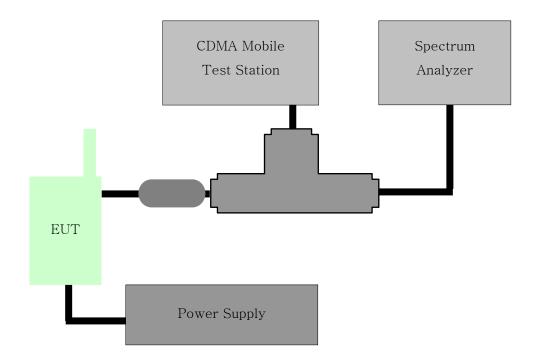
- 1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25 °C to 27 °C to provide a reference).
- 2. The equipment is subjected to an overnight "soak" at 30 °C without any power applied.
- 3. After the overnight "soak" at 30 °C (usually 14-16 hours), the equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
- 4. Frequency measurements are made at 10 °C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
- 5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
- 6. Frequency were made at 10 intervals starting at 30 °C up to + 50 °C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after applying power to the transmitter.
- 7. The artificial load is mounted external to the temperature chamber.

NOTE: The EUT is tested down to the battery endpoint.

12 of 22

4.6.2 Frequency stability with variation of primary supply voltage.

Test Set-up



Test Procedure

- 1) The primary supply is varied in steps of 5 % from 85 to 115 % of the nominal supply voltage, or reduce primary supply voltage to the battery operating end point.
- 2) The frequency is recorded each 5 % step.

5.1 Equivalent Isotropic Radiated Power (E.I.R.P.) PCS CDMA

Radiated measurements at 3 meters

Modulation: PCS CDMA

Freq. Tuned	RFF. LEVEL	POL	Azimuth	EIRP	EIRP	DATTEDY
(MHz)	(dBm)	(H/V)	(0 angle)	(W)	(dBm)	BATTERY
1851.25	-29.24	V	70	0.270	24.32	Standard
1880.00	-29.30	V	70	0.267	24.26	Standard
1908.75	-29.49	V	70	0.255	24.07	Standard

Note: Standard batteries are the only options for this phone

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

14 of 22

6.1 Test Data (Continued)

6.2 CELLULAR PCS CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 1851.25 MHz
 ■ CHANNEL: 0025 (Low)
 ■ MEASURED OUTPUT POWER: 24.32dBm = 0.270 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.31dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3702.50	-53.59	12.4	-41.19	V	-56.1
5553.75	-44.97	11.7	-33.27	V	-49.4
7405.00	-45.71	11.5	-34.21	V	-51.0

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

6.1 Test Data (Continued)

6.3 CELLULAR PCS CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 1880.00 MHz
 ■ CHANNEL: 0600 (Middle)
 ■ MEASURED OUTPUT POWER: 24.32dBm = 0.270 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.31dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(ubc)
	(dBm)	(dBi)	(dBm)		
3760.00	-53.84	12.4	-4144	V	-56.4
5640.00	-45.07	11.7	-33.37	V	-49.5
7520.00	-47.03	11.5	-35.53	V	-52.4

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

6.1 Test Data (Continued)

6.4 CELLULAR PCS CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 1908.75 MHz
 ■ CHANNEL: 1175 (High)
 ■ MEASURED OUTPUT POWER: 24.32dBm = 0.270 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.31dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(ubc)
	(dBm)	(dBi)	(dBm)		
3817.50	-53.86	12.4	-41.46	V	-56.4
5726.25	-45.15	11.7	-33.45	V	-49.6
7635.00	-48.09	11.5	-36.59	V	-53.4

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

7.1 Test Data(Continued)

7.2 FREQUENCY STABILITY (PCS CDMA)

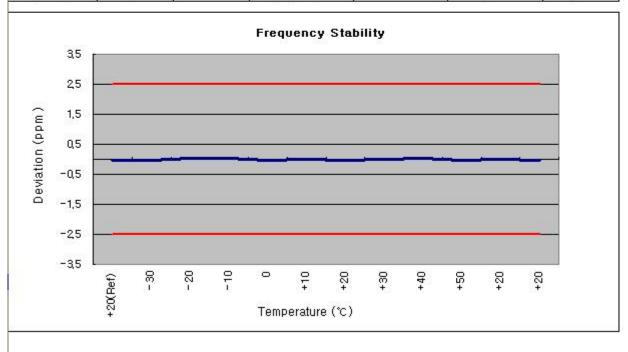
 OPERATING FREQUENCY:
 1,880,000,000 Hz

 CHANNEL:
 0600

 REFERENCE VOLTAGE:
 3.7 VDC

 DEVIATION LIM IT:
 ± 0.00025 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp,	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%		+20(Ref)	1,799,999,968	-32	-0,000004	-0,017
100%	8	-30	1,799,999,952	-48	-0,000006	-0,026
100%		-20	1,800,000,041	41	0,000005	0,022
100%		-10	1,800,000,038	38	0,000005	0,020
100%	3.70	0	1,799,999,964	-36	-0,000004	-0,019
100%	3,70	+10	1,800,000,030	30	0,000004	0,016
100%		+20	1,799,999,968	-32	-0,000004	-0,017
100%		+30	1,800,000,027	27	0,000003	0,014
100%		+40	1,800,000,042	42	0,000005	0,022
100%		+50	1,799,999,953	-47	-0,000006	-0,025
115%	4,26	+20	1,799,999,971	-29	-0,000003	-0,015
Batt Endpoint	3,42	+20	1,799,999,949	-51	-0,000006	-0,027





8.1 PLOT(S) OF EMISSION

(SEE ATTACHMENT D)

9.1 LIST OF TEST EQUIPMENT

	M 11/5 : .	Serial	Calibration	Calibration	Calibration
Manufacture	Model/ Equipment	Number	Date	Interval	Due
R&S	ESI40/ Spectrum Analyzer	831564/003	11/06/2006	Annual	11/06/2007
Advantest	R3273/ Spectrum Analyzer	J04821	03/15/2007	Annual	03/15/2008
Advantest	R3671/ Spectrum Analyzer	150900068	06/15/2006	Annual	06/15/2007
R&S	FSP30/ Spectrum Analyzer	839117/011	06/28/2006	Annua	06/28/2007
Agilent	HP8373ED / Signal Generator	US8710152	06/14/2006	Annual	06/14/2007
Agilent	E4416A/ Power Meter	GB41291412	01/22/2007	Annual	01/22/2008
Agilent	E9327A/ Power Sensor	US40440910	01/24/2007	Annual	01/24/2008
Agilent	HP8901B/ Modulation Analyzer	3438A05231	08/04/2006	Annual	08/04/2007
Agilent	8903A/ Audio Analyzer	2433A04322	08/04/2006	Annual	08/04/2007
R&S	CMU200/ Base Station	839117/011	01/28/2007	Annual	01/28/2008
Agilent	8960 (E5515C)/ Base Station	GB44400269	02/11/2007	Annual	02/11/2008
Tescom	TC-3000/ Bluetooth Simulator	3000A4900112	01/22/2007	Annual	01/22/2008
MITEQ	AMF-6D-01180-35-20P/ AMP	990893	02/24/2007	Annual	02/24/2008
Wainwright	WHK1.2/15G-10EF/H.P.F	2	06/28/2006	Annual	06/28/2007
Wainwright	WHK3.3/18G-10EF/H.P.F	1	06/28/2006	Annual	06/28/2007
Agilent	778D/ Dual Directional Coupler	16072	11/09/2006	Annual	11/09/2007
Agilent	1506A/ Power Divider	99441	11/10/2006	Annual	11/10/2007
Digital	EP-3010/ Power Supply	3110117	12/29/2006	Annual	12/29/2007
Schwarzbeck	UHAP/ Dipole Antenna	630	11/13/2006	Annual	11/13/2007
Schwarzbeck	UHAP/ Dipole Antenna	605	11/13/2006	Annual	11/13/2007
R&S	HFH2-Z2/ Loop Antenna	881056/070	12/11/2006	Annual	12/11/2007
Schwarzbeck	VULB9160/ TRILOG Antenna	3150	03/19/2007	Annual	03/19/2008
Schwarzbeck	VULB9160/ TRILOG Antenna	4150	01/23/2007	Annual	01/23/2008
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	03/31/2006	Biennial	03/31/2008
Schwarzbeck	BBHA 9120D/ Horn Antenna	1201	05/02/2006	Biennial	05/02/2008

10.1 SAMPLE CALCULATIONS

A. EIRP Sample Calculation

Freq. Tuned	RFF. LEVEL	POL	Azimuth	EIRP	EIRP	BATTERY
(MHz)	(dBm)	(H/V)	(0 angle)	(W)	(dBm)	BAILERT
1851.25	-29.24	V	70	0.270	24.32	Standard

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.(LEVEL)
- 4) Replace the EUT with dipole antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item(3).
- 6) The signal generator output level with cable loss is the rating of Equivalent Isotropic Radiated Power(**EIRP**).

For more details, please refer to the test set-up procedure.

B. Emission Designator

Emission Designator = 1M28F9W

CDMA BW = 1.28 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)



11.1 CONCLUSION

The data collected shows that the Fixed WLL Telephone (PCS CDMA) **FCC ID: PH7PX330** complies with all the requirements of Parts 2 and 24 of the FCC rules.