HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.

PRODUCT COMPLIANCE DIVISION
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EMI REPORT (DoC)

PANTECH&CURITEL COMMUNICATIONS, INC.

8F, PEERES BLDG, 222, CHUNGJEONGNO 3-GA,
SEODAEMUN-GU, 120-708, KOREA

Date of Issue: June 23, 2006
Test Report No.: HCT-SAR06-0609
Test Site: HYUNDAI CALIBRATION & CERTIFICATION TECHNOLOGIES CO., LTD.
FRN: 0005866421

MODEL : **PC-7300L**

Classification/ Standard(s):	FCC PART 15 CLASS B / CISPR 22 CLASS B
	ICES-003, RSS-132, RSS-133, RSS-210
Equipment (EUT) Type:	Single Band CDMA Phone- Prototype
Trade Name/Model(s):	PANTECH&CURITEL / PC-7300L
Port/ Connector(s)	DC Input Port / Ear Phone Port

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003.(See Test Report if any modifications were made for compliance)

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. certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse of 1988,21 U.S.C.853(a).

Ki Soo Kim

Report prepared by : Ki-Soo Kim
Manager of Product Compliance Team

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1 Product Description

The **PANTECH&CURITEL COMMUNICATION, INC. PC-7300L** Single Band CDMA Phone. Its basic purpose is used for communications. It transmits from CDMA (824.70~848.31), and receives from CDMA (869.70~893.31), The RF power is rated at CDMA (0.262 W)

FCC ID	PP4PC-7300L
EUT Type	Single-Mode CDMA Phone- Prototype
Model	PC-7300SU
TX Frequency	824.70 — 848.31 MHz (CDMA)
RX Frequency	869.70 — 893.31 MHz (CDMA)
FCC Classification	Licensed Portable Transmitter Held to Ear (PCE)
Max RF. Output Power	0.258 W ERP CDMA (24.1 dBm)
Modulation	CDMA

1.2 Related Submittal(s) / Grant(s)

ORIGINAL SUBMITTAL ONLY

1.2 Tested System Details

The Model names for all equipment, plus descriptions used in the tested system (including inserted cards) are:

DEVICE TYPE	MANUFACTURER	MODEL NUMBER/ PART NUMBER	FCC ID / DoC	CONNECTED TO
CDMA Phone	PANTECH&CURITEL	PC-7300L	PP4PC-7300L	Adaptor/ P.C
Adaptor	PANTECH&CURITEL	PTA-5010C6US	N/A	CDMA Phone
Head-Set	PANTECH&CURITEL	-	N/A	EUT
USB CABLE	PANTECH&CURITEL	PDC-UD-C5	N/A	Notebook P.C
Notebook P.C	TOSHIBA	PSA50K-04007	DoC	N/A
Adapter	TOSHIBA	ADP-60RH A	DoC	Notebook P.C
Key Board	H.P	SK-2501-2D-K	DoC	P.C
MOUSE	H.P	M-S48a	DoC	P.C

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4/1992. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.4 Test Facility

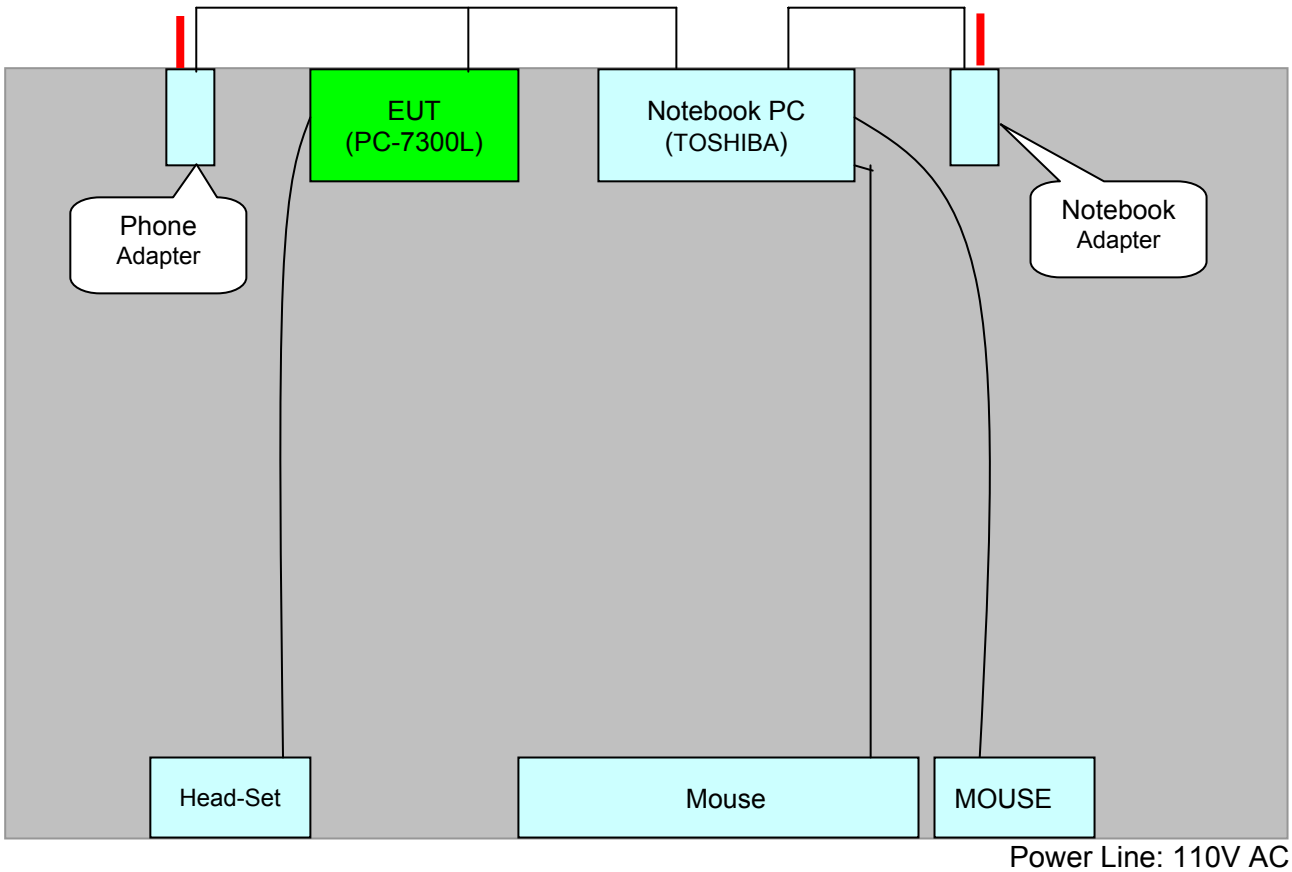
The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1,Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 23, 2003(Registration Number: 90661)

2.SYSTEM TEST CONFIGURATION

2.1 Configuration of Test system

Line Conducted Test : EUT was connected to LISN, all other supporting equipment were Connected to another LISN. Preliminary Power line Conducted Emission tests were performed by using the procedure in ANSI C63.4/2003 7.2.3 to determine the worse operating conditions.

Radiated Emission Test : Preliminary Radiated Emissions tests were conducted using the procedure in ANSI C63.4/2003 8.3.1.1 to determine the worse perating condition. Final Radiated Emission tests were conducted at 3 meter open area test site.



[Configuration of Tested System]

3. CONDUCETD AND RADIATED EMISSION TESTS SUMMARY

3.1 Conducted Emissions Tests

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

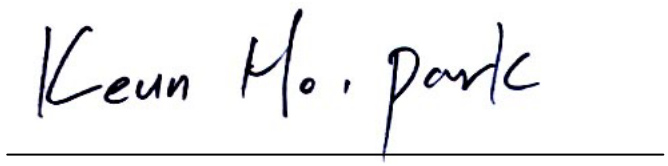
==========

Humidity Level : 38 % Temperature: 27.4 °C
Limit apply to : CISPR 22 CLASS B
Result : PASSED BY – 4.6 dB
Operating Condition : Idle/ USB Data Transfer

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 KHz)

Power Line Conducted Emissions				FCC Class B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuv)	Margin (dB)
2.125	45.3	NEUTRAL	Quasi-Peak	56	-10.7
1.95	34.6	NEUTRAL	Average	46	-11.4
2.19	47.5	HOT	Quasi-Peak	56	-8.5
2.19	41.9	HOT	Average	46	-4.1

Line Conducted Emissions Tabulated Data



Measured by : Keun-Ho Park / Engineer Date : July 1, 2006

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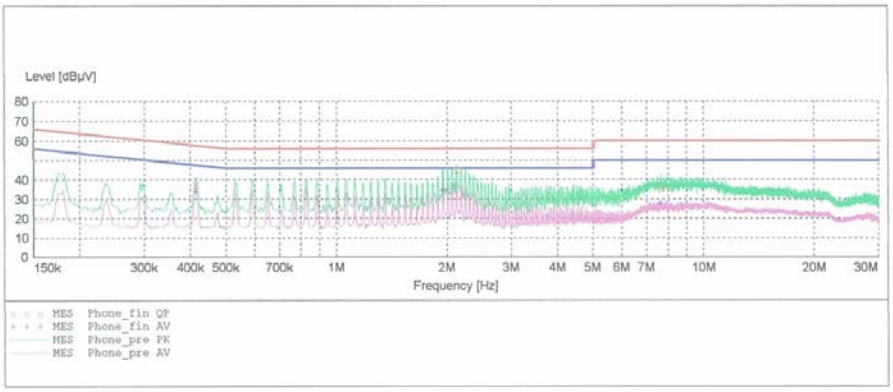
EMC TEST LAB

EUT: PC-7300L
Manufacturer: PANTECH&CURITEL
Operating Condition: CHARGING MODE
Test Site: SHIELD ROOM
Operator: KEUN-HO PARK
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "Phone_fin QP"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.415100	38.20	10.1	58	19.3	---	---
2.125000	45.30	10.3	56	10.7	---	---
7.660000	36.20	10.3	60	23.8	---	---

MEASUREMENT RESULT: "Phone_fin AV"

7/1/2006 11:15AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.415100	34.10	10.1	48	13.4	---	---
1.950000	34.60	10.3	46	11.4	---	---
7.615000	27.90	10.3	50	22.1	---	---

Page 1/1 7/1/2006 11:15AM HCT EMC LAB

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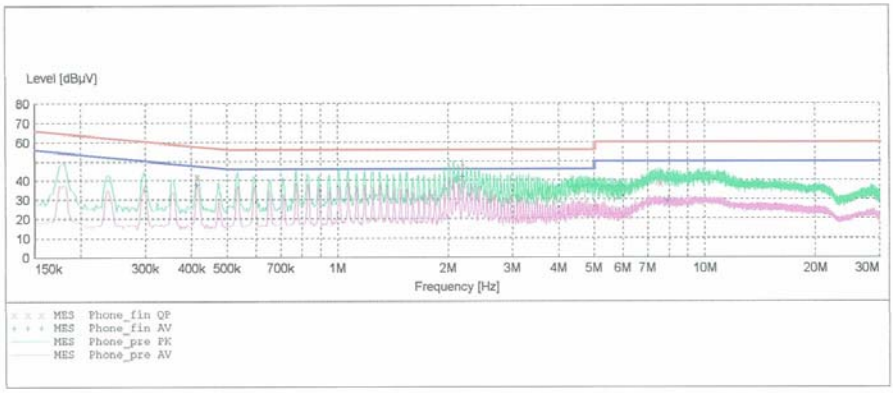
EMC TEST LAB

EUT: PC-7300L
Manufacturer: PANTECH&CURITEL
Operating Condition: CHARGING MODE
Test Site: SHIELD ROOM
Operator: KEUN-HO PARK
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "Phone_fin QP"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.415100	41.90	10.1	58	15.6	---	---
2.190000	47.50	10.3	56	8.5	---	---
7.580000	38.70	10.3	60	21.3	---	---

MEASUREMENT RESULT: "Phone_fin AV"

7/1/2006 11:11AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.415100	37.70	10.1	48	9.8	---	---
2.190000	41.90	10.3	46	4.1	---	---
7.940000	29.10	10.4	50	20.9	---	---

Page 1/1 7/1/2006 11:11AM HCT EMC LAB

3.2 Radiated Emissions Tests

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

==========

Limit apply to : FCC PART 15 CLASS B
Result : PASSED – 6.4 dB
Operating Condition : Idle/ USB Data Transfer

Detector : Quasi-Peak (Bandwidth: 120 KHz)

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
94.20	18.8	9.3	2.2	V	30.3	43.5	-13.2
97.00	20.2	9.7	2.2	V	32.1	43.5	-11.4
193.60	13.8	16.1	3.1	V	33.1	43.5	-10.4
254.20	18.5	17.5	3.6	V	39.6	46	-6.4
296.30	10.4	19.5	4.0	V	33.8	46	-12.2
328.40	14.7	16.4	4.2	V	35.2	46	-10.8
475.20	8.7	18.8	5.0	V	32.4	46	-13.6
263.50	12.6	17.8	3.7	H	34.1	46	-11.9
328.40	14.0	16.4	4.2	H	34.5	46	-11.5
356.40	15.0	16.5	4.3	H	35.8	46	-10.2
389.20	10.7	16.8	4.5	H	32.1	46	-13.9
589.60	8.0	20.9	5.5	H	34.5	46	-11.5

Keun Ho. Park

Measured by : Keun-Ho Park / Engineer Date : July 1, 2006

3.3.1 Conducted Radiated Emission

3.3.2 Radiated Emission

4.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor.
The basic equation with a sample calculation is as follows:

FS = RA + AF + CF

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

Assume a receiver reading of 21.5 dBuV is obtained. The Antenna Factor of 7.4 and a Cable Factor of 1.1 is added. The 30 dBuV/m value was mathematically converted to its corresponding level in uV/m.

FS = 21.5 + 7.4 + 1.1 = 30 dBuV/m

Level in uV/m = Common Antilogarithm [(30 dBuV/m)/20] = 31.6 uV/m

5.1 Test Equipment

Type	Manufacture	Model Number	CAL Date
EMI Test Receiver	Rohde & Schwarz	ESI40	2005.11.16
EMI Test Receiver	Rohde & Schwarz	ESVS30	2005.07.16
LISN	Rohde & Schwarz	ESH2-Z5	2005.07.28
LISN	EMCO	ESH3-Z5	2005.07.28
Attenuator	Rohde & Schwarz	ESH3-Z2	2005.11.16
Amplifier	Hewlett-Packard	8447E	2005.08.23
TRILOG Antenna	Schwarzbeck	9160	2006.04.06
Antenna Position Tower	EMCO	1051-12	N/A
Turn Table	EMCO	1060-06	N/A
Power Analyzer	Voltech	PM 3300	2006.02.15
Reference Network Impedance	Voltech	IEC 555	N/A
AC Power Source	PACIFIC	Magnetic Module	N/A
AC Power Source	PACIFIC	360-AMX	2005.11.25
Controller	HD GmbH	HD 100	N/A
SlideBar	HD GmbH	KMS 560	N/A

6.1 Conclusion

The data collected shows that the PANTECH&CURITEL COMMUNICATIONS, INC. Single-Mode CDMA Phone-Prototype FCC ID: PP4PC-7300L Complies with §15.107 and §15.109 of the FCC Rules.