FCC TEST REPORT

Reference No. : **G-45-2011-00027**

Applicant : **LG Electronics Inc.**

Equipment Under Test (EUT) :

Product Name : Cellular/PCS CDMA Phone with Bluetooth

Model Name : UN270

Alt. Model Name : LG-UN270, VN270, LG-VN270, LG270, LG270C, LW270, CX270, TN270, AN270

Applied Standards : **FCC Part 15 : 2009, Subpart B, Class B**

ANSI C63.4 : 2003

CISPR 22 : 2006

Date of Receipt : **January 04, 2011**

Date of Test : **January 04, 2011 ~ January 05, 2011**

Date of Issue : **January 07, 2011**

Test Results : **Complied**

Tested by : ----------
Paul Kang

Reviewed by : ----------
Forest Lee

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

Contents

1. General Information

1.1 Client Information

Applicant	: LG Electronics Inc.
Address of Applicant	: 60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea
Manufacturer	: LG Electronics Inc.
Address of Manufacturer	: 60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea

1.2 Test Laboratory

Name and Address	: SGS Testing Korea Co., Ltd. 18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea 435-041

1.3 General Information of E.U.T.

Product Name	: Cellular/PCS CDMA Phone with Bluetooth
Model Name	: UN270
Alt. Model Name	: LG-UN270, VN270, LG-VN270, LG270, LG270C, LW270, CX270, TN270, AN270
Model Difference	: Only model name is different.
FCC ID	: BEJVN270
Serial No.	: N/A
Highest Internal Frequency	: Max. 25 MHz
Test Voltage	: 120 V a.c., 60 Hz (Personal Computer) Battery 3.7 V d.c., 1000 mAh, 3.7 Wh Inside

1.4 Operating Modes and Conditions

Operating mode	Operating condition
USB Mode	USB Data Communication

Note: EUT was exercised through Software(Dell Program) during testing.

1.5 Peripheral Equipments

Description	Model	Serial No.	Manufacturer
Personal Computer	DC8CMF	CWDKKBX	DELL INC.
LCD Monitor	M208WA	704KGEF2U812	LG Electronics Inc.
USB MOUSE	Basic Optical Mouse 1.0A USB/PS2 Compatible	N / A	MICROSOFT CORPORATION
Local Area Network	N/A	N/A	N/A
Micro SD Card	Mobile Ultra 2GB	N/A	SanDisk
USB Keyboard	RT7D50	CN-0W7658-37172-65I-0K5G	DELL

Note: Peripherals are DoC.

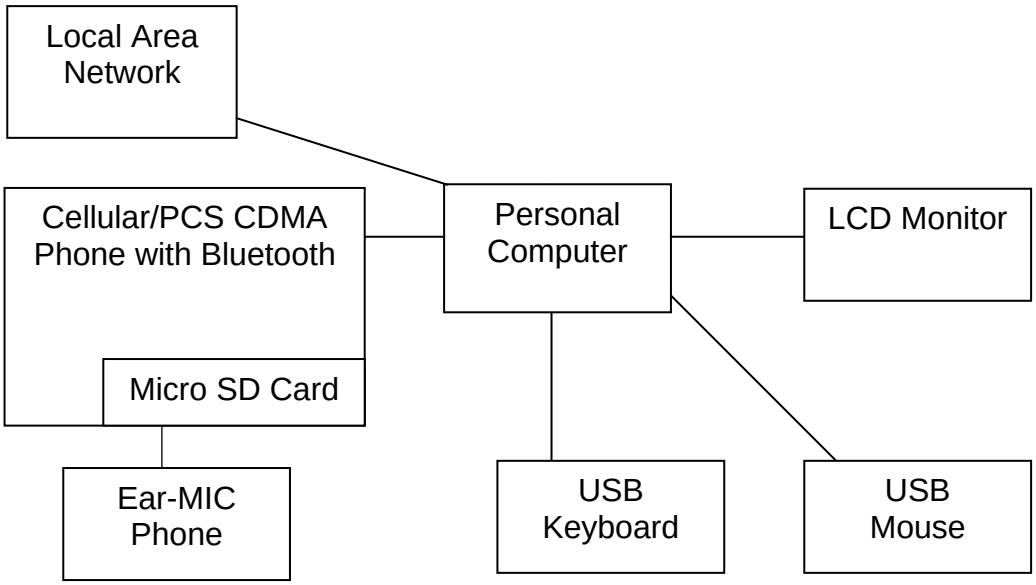
1.6 Cable List

Start		END		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
Cellular/PCS CDMA Phone with Bluetooth	USB	Personal Computer	USB	1.2	Shield
	I/O	Ear-MIC Phone	-	1.1	Unshield
	MicroSD	Micro SD Card	-	-	-
Personal Computer	AC IN	AC Source	-	1.4	Unshield
	RGB	LCD Monitor	RGB	1.8	Shield
	USB	USB Keyboard	USB	2.0	Shield
	USB	USB Mouse	USB	1.8	Shield
	LAN	Local Area Network	-	6.0	Unshield

1.7 System Configurations

Description	Model	Serial No.	Manufacturer
Battery	LGIP-520N	DC101214	LG
Ear-MIC Phone	B187	SGEY0003744	LG

1.8 Test System Layout



1.9 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15 : 2009, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Applicable	No Deviation

1.10 Summary of Test Results

Test Item	Standards	Results
Conducted Emission	FCC Part 15 : 2009, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied
Radiated Emission	FCC Part 15 : 2009, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied

EMISSION

2.1 Test Results

Test Items	Standards	Test Results
Conducted Emission	FCC Part 15 : 2009, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	**Complied**
Radiated Emission	FCC Part 15 : 2009, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	**Complied**

2.2 Test Equipments

Equipment	Model	Manufacturer	Last Cal. Date
Two-Line V-Network	ENV216	R & S	2010.01.06
Test Receiver	ESHS10	R & S	2010.07.12
AMN	ESH2-Z5	R & S	2010.06.25
Bilog Antenna	VULB9163	SCHWARZBECK MESS-ELEKTRONIK	2009.07.22
Test Receiver	ESU26	R & S	2010.04.08
Amplifier	8447F	HP	2010.07.05

Note : Only the calibration period of Antennas is 2 years but the period of every equipment is 1 year.

2.3 Test Site

Conducted Emission: Shield Room in Gunpo Laboratory

Radiated Emission: 3m Semi-Anechoic Chamber in Gunpo Laboratory

2.4 Conducted Emission Test Data

The initial preliminary exploratory scans were performed using a max hold mode incorporating a Peak detector. The final test data was measured using a Quasi-Peak detector and Average detector.

Temperature : 22.5 ℃

Humidity : 33.0 % RH

Atmospheric Pressure : 101.0 kPa

FREQ. (MHz)	LINE	LEVEL(dBμV)		LIMIT(dBμV)		MARGIN(dB)	
		Q-Peak	Average	Q-Peak	Average	Q-Peak	Average
0.15	N	35.60	21.30	66.00	56.00	30.40	34.70
0.18	H	38.20	36.00	64.72	54.72	26.52	18.72
0.23	H	38.50	36.10	62.45	52.45	23.95	16.35
0.57	H	28.90	25.70	56.00	46.00	27.10	20.30
1.03	N	28.60	24.20	56.00	46.00	27.40	21.80
17.84	N	28.90	23.30	60.00	50.00	31.10	26.70

Note : • Line (H) : Hot • Line (N) : Neutral

• Margin = Limit - Level

See Appendix A (Conducted Emission)

2.5 Radiated Emission Test Data

The initial preliminary exploratory scans were performed using a max hold mode incorporating a Peak detector. The final test data was measured using a Quasi-Peak detector below 1GHz and a Peak and Average detector above 1GHz. This test was performed up to 1GHz.

Below 1GHz (3m method)

Temperature : 22.8 ℃
Humidity : 28.0 % RH
Atmospheric Pressure : 100.8 kPa

FREQ. (MHz)	LEVEL (dBμV)	POL (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp (dB)	F/S (dBμV/m)	LIMIT (dBμV/m)	MARGIN (dB)
47.99	39.80	V	325.0	1.10	12.12	0.71	28.28	24.35	40.00	15.65
135.08	40.20	V	263.1	1.60	7.57	1.14	27.93	20.98	43.50	22.52
144.62	37.50	V	258.7	1.10	7.63	1.19	27.89	18.43	43.50	25.07
191.99	38.80	V	316.2	1.40	10.23	1.36	27.67	22.72	43.50	20.78
601.22	36.40	H	44.1	2.00	19.32	2.40	28.87	29.25	46.00	16.75
623.64	37.50	H	332.4	1.20	19.43	2.44	28.83	30.54	46.00	15.46

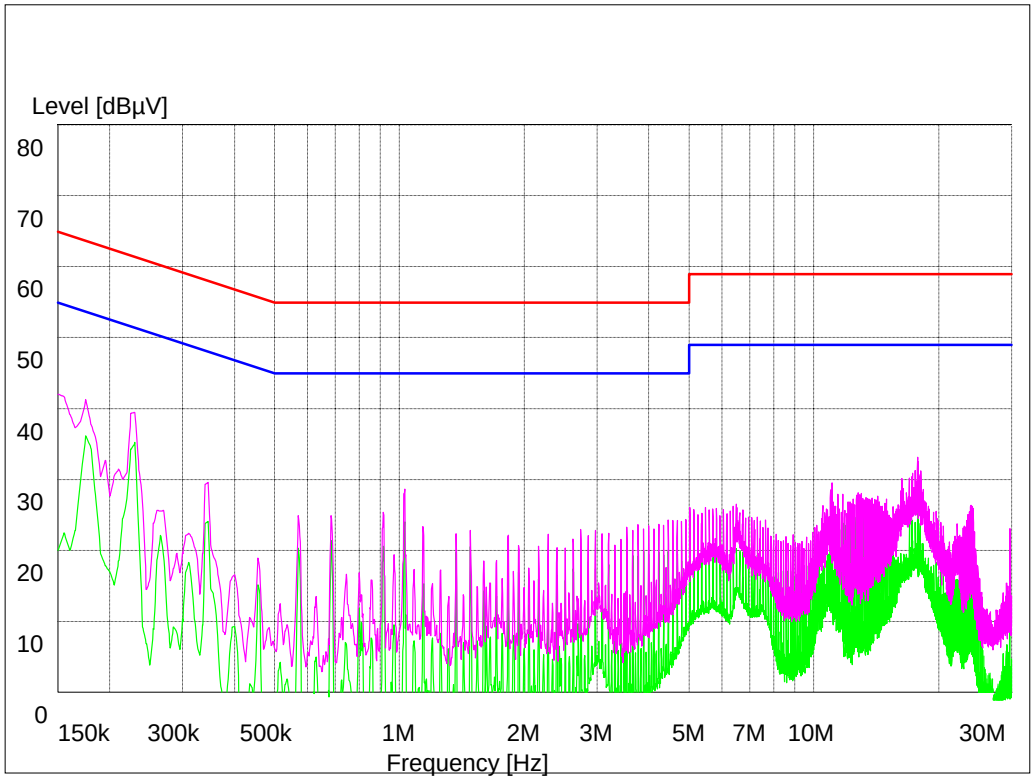
Note : • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
• POL H = Horizontal • POL V = Vertical • Amp = Amplifier Gain
• Margin = Limit – F/S • F/S = Level + AF + CL – Amp
• A : Angle • H : Height

2.6 Modifications

There was no modified item during the test.

Appendix A : Conducted Emission

Neutral



Hot