

FCC TEST REPORT

Reference No. : G-45-2010-00500

Applicant : LG Electronics Inc.

Equipment Under Test (EUT) :

Product Name : Cellular/PCS GSM Phone

Model Name : GU200a

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

ANSI C63.4 : 2003

CISPR 22 : 2006

Date of Receipt : February 23, 2010

Date of Test : March 03, 2010 ~ March 18, 2010

Date of Issue : March 19, 2010

Test Results : Complied

Tested by

:


Elf Yoon

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.



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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 GSM Phone
Model Name : GU200a
Serial No. : 001KPLC681080
Highest Internal Frequency : Max.104 MHz

1.4 Operating Modes and Conditions

Operating mode	Operating condition
USB Mode	USB Data Communication

1.5 Peripheral Equipments

Description	Model	Serial No.	Manufacturer
Notebook Computer	PCG-3AHP	28272287 7000053	Sony Corporation
Micro SD Card	Mobile Ultra 2GB	N/A	SanDisk
LCD Monitor	CR22KS	N843H1K P902165L	Samsung Electronics
USB Keyboard	KU-0459	76914020 03981	Microsoft
USB MOUSE	Wheel mouse optical	0447	Microsoft Corporation

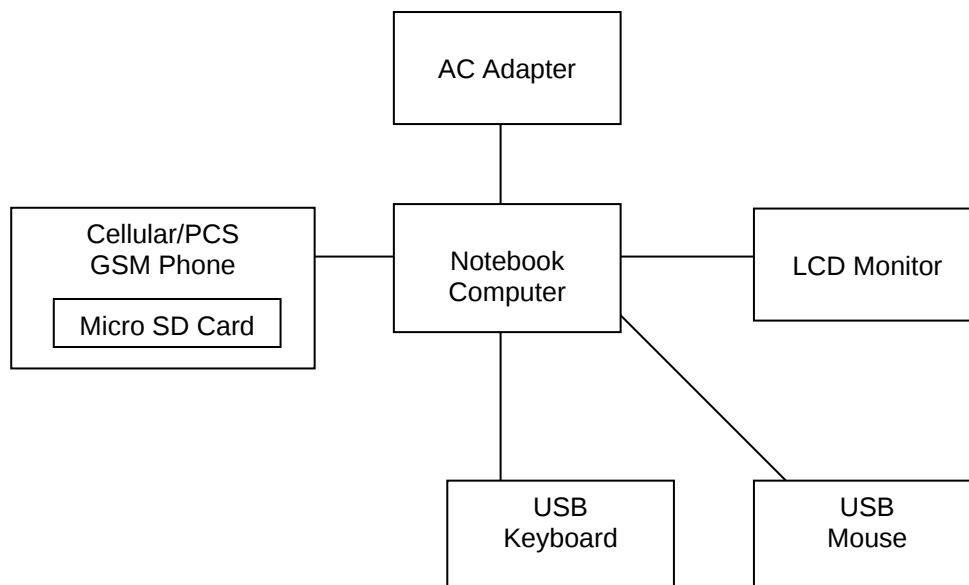
1.6 Cable List

Start		END		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
Cellular/PCS GSM Phone	USB	Notebook Computer	USB	1.2	Shielded
	MicroSD	Micro SD Card	-	-	-
Notebook Computer	DC IN	AC Adapter	DC OUT	1.8	Unshielded
	RGB	LCD Monitor	RGB	1.8	Shielded
	USB	USB Keyboard	-	1.7	Shielded
	USB	USB Mouse	-	1.8	Shielded
AC Adapter	AC IN	AC Source	-	1.0	Unshielded

1.7 System Configurations

Description	Model	Serial No.	Manufacturer
Antenna	N/A	N/A	N/A
Battery	LGIP-430N	DC100126	LG
Key Board	SPEY0065101-C	N/A	N/A
LCD Panel	N/A	SYN98200324C	N/A
Main Board	SPFY0222601	N/A	N/A

1.8 Test System Layout



1.9 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15, 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, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied
Radiated Emission	FCC Part 15, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied

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2.1 Test Results

Test Items	Standards	Test Results
Conducted Emission	FCC Part 15, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied
Radiated Emission	FCC Part 15, 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	2009.07.13
Test Receiver	ESU26	R&S	2009.04.21
Amplifier	8447F	HP	2009.07.02
Bi-Log Antenna	VULB9163	SCHWARZBECK MESS-ELEKTRONIK	2009.07.22

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

Temperature : 22.3

Humidity : 45.0 % RH

Atmospheric Pressure : 101.6 kPa

FREQ. (MHz)	LINE	LEVEL(dB μ V)		LIMIT(dB μ V)		MARGIN(dB)	
		Q-Peak	Average	Q-Peak	Average	Q-Peak	Average
0.24	H	35.20	22.30	62.10	52.10	26.90	29.80
0.45	N	31.30	20.20	56.88	46.88	25.58	26.68
2.03	H	30.50	19.70	56.00	46.00	25.50	26.30
2.73	N	30.80	20.10	56.00	46.00	25.20	25.90
16.67	N	37.20	30.10	60.00	50.00	22.80	19.90
18.65	H	39.20	30.30	60.00	50.00	20.80	19.70
23.91	H	29.80	23.20	60.00	50.00	30.20	26.80

Note : • Line (H) : Hot

• Line (N) : Neutral

• Margin = Limit - Level

See Appendix A (Conducted Emission)

2.5 Radiated Emission Test Data

Temperature : 22.9

Humidity : 30 % RH

Atmospheric Pressure : 101.4 kPa

FREQ. (MHz)	LEVEL (dB μ V)	POL (H/V)	AF (dB)	CL (dB)	Amp (dB)	F/S (dB μ V/m)	LIMIT (dB μ V/m)	MARGIN (dB)
48.99	35.60	V	12.06	0.72	28.28	20.10	40.00	19.90
60.00	44.70	V	11.44	0.79	28.21	28.72	40.00	11.28
133.08	43.90	V	7.68	1.14	27.93	24.79	40.00	15.21
157.31	46.90	V	8.18	1.24	27.83	28.49	40.00	11.51
263.32	45.60	H	12.26	1.61	27.37	32.10	47.00	14.90
408.00	42.10	H	15.81	1.99	28.19	31.71	47.00	15.29

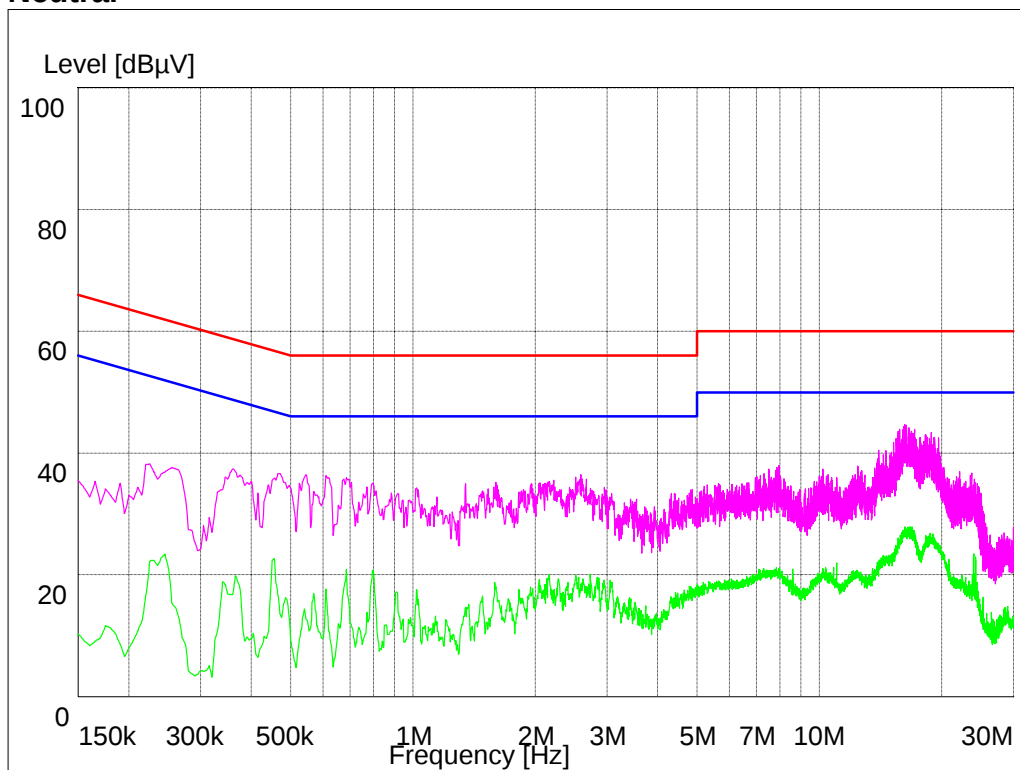
Note: • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
 • POL H = Horizontal • POL V = Vertical • Amp = Amplifier Gain
 • Margin = Limit – F/S • F/S = Level + AF + CL – Amp

2.6 Modifications

There was no modified item during the test.

Appendix A : Conducted Emission

Neutral



Hot

