



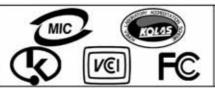
Test Report for FCC

Report Number		ESTF150709-009							
	Company name	LG Electronics Inc.							
Applicant	Address	60-39,	60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea						
	Telephone	82-2-2	033 - 3847						
	Product name	GSM P	none						
Product	Model No.	KP210, K	P210a, KP215a	Manufacturer	lanufacturer LG Electronics Ir				
	Serial No.		NONE	Country of origin	KOREA				
Test date	200	07-09-19		Date of issue 28-Sep-07					
Testing location	97-1 H	oiuk-Ri M	ESTECH. C ajang-Myon, Ich	co., Ltd. neon-city, Kyungl	Ki-Do, Kore	ea			
Standard		FCC P	ART 15 2006,	ANSI C 63.4 200)3				
Tablifana	Conducted E	Emission	Class A	Class B	Test result	ОК			
Test item	Radiated Em	nission	Class A	Class B	Test result	OK			
Measurement	facility registration	number	94696						
Tested by	Engine	eer J. H. k	(im	(Signafure)					
Reviewed by	Engineering Manager J.M.Yang (Signate)								
Abbreviation	OK, Pass = Passed, Fail = Failed, N/A = not applicable								

- * Note
- Basic Model: KP210
- Additional Models: KP210a, KP215a
- Basic Model and Addition Models are same product, only model name is different.
- This test report is not permitted to copy partly without our permission
- This test result is dependent on only equipment to be used
- This test result based on a single evaluation of one sample of the above mentioned

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Appendix 1. Spectral diagram





1. Laboratory Information

1.1 General

This EUT (Equipment Under Test) has been shown to be capable of compliance with the applicable technical standards and is tested in accordance with the measurement procedures as indicated in this report.

ESTECH Lab attests to accuracy of test data. All measurement reported herein were performed by ESTECH Co., Ltd.

ESTECH Lab assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

1.2 Test Lab.

Corporation Name: ESTECH Co. Ltd

Head Office: Rm 1015, World Venture Center II, 426-5, Gasan-dong, Geumcheon-gu, Seoul, Kore (Safety & Telecom. Test Lab)

EMC Test Lab: 58-1 Osan-Ri, GaNam-Myon, YeoJoo-Gun, KyungKi-Do, Korea 97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

1.3 Official Qualification(s)

MIC : Granted Accreditation from Ministry of Information & Communication for EMC, Safety and Telecommunication

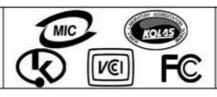
KOLAS: Accredited Lab By Korea Laboratory Accreditation Schema base on CENELEC requirements

FCC: Filed Laboratory at Federal Communications Commission

VCCI: Granted Accreditation from Voluntary Control Council for Interference from ITE

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2. Description of EUT

2.1 Summary of Equipment Under Test

Product name : GSM Phone

Model Number : KP210, KP210a, KP215a

Serial Number : NONE

Manufacturer : LG Electronics Inc.

Country of origin: KOREA

Rating : Supplied from Note PC

Receipt Date : 28-Aug-07

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3. Test Standards

Test Standard: FCC PART 15 (2006)

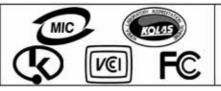
This Standard sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of Part 15 devices.

Test Method: ANSI C 63.4 (2003)

This standard sets forth uniform methods of measurement of radio-frequency (RF) signals and noise emitted from both unintentional and intentional emitters of RF energy in the frequency range 9 kHz to 40 GHz. Methods for the measurement of radiated and AC power-line conducted radio noise are covered and may be applied to any such equipment unless otherwise specified by individual equipment requirements. These methods cover measurement of certain decides that deliberately radiate energy, such as intentional emitters, but does not cover licensed transmitters. This standard is not intended for certification/approval of avionic equipment or for industrial, scientific, and medical (ISM) equipment These method apply to the measurement of individual units or systems comprised of multiple units

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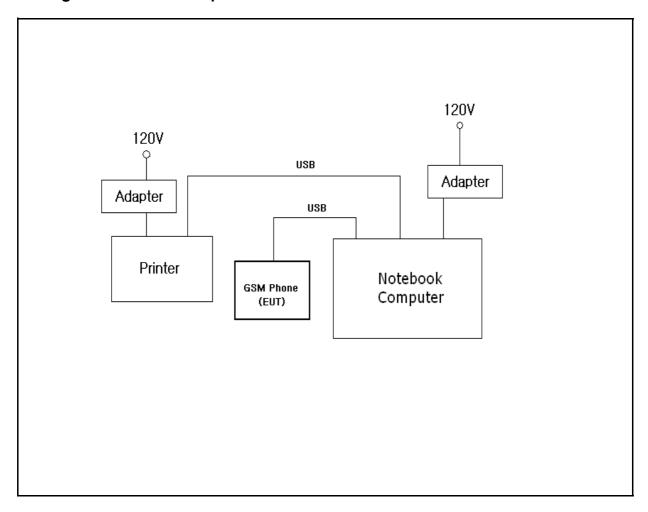


4. Measurement Condition

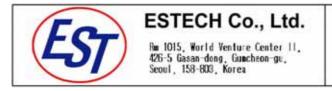
4.1 EUT Operation.

- * The EUT was in the following operation mode during all testing
- * The operational conditions of the EUT was determined by the manufacturer according to the typical use of the EUT with respect to the expected hightest level of emission.
- * Connect the EUT to Note PC. Osilator frequency:26MHz
- * Install sync program to Note PC.
- * Transferred "H" character data between the phone and note pc during the test.
- * The supporting equipments used in the part 15B testing were appreved under Doc.

4.2 Configuration and Peripherals



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4.3 EUT and Support equipment

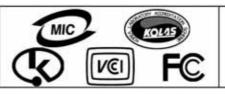
Equipment Name	Model Name	S/N	Manufacturer	Remark (FCC ID)
GSM Phone	KP210, KP210a, KP215a	NONE	LG Electronics Inc.	EUT
Notebook Computer	PP11L	48643 - 53E - 1495	Dell Asia Pacific Sdn.	
Adapter	PA - 1650 - 05DK	71615 - 52P - 0475	Dongguang Lite Power 2nd Plant	
Printer	MJC - 5750	NA34BFFP313555K	SAMSUNG ELECTRONICS(SHANDONG)DIGITAL PRINTING CO.,LTD.	
Adapter	PA8040WB	0703016326	Bestec Electronics (DongGuan)Co.,Ltd.	

4.4 Cable Connecting

Start Equip	ment	End Equip	Cable Standard		Domark	
Name	I/O port	Name	I/O port	Length	Shielded	Remark
Notebook Computer	USB	GSM Phone	USB	2	Yes	
Notebook Computer	USB	Printer	USB	2	Yes	
Notebook Computer	ook Computer POWER		-	2	No	
Printer POWER		Adapter	-	2	No	

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5. Measurement of radiated disturbance

Above 30 MHz Electric Field strength was measured in accordance with FCC Part 15 (2006) & ANSI C 63.4 (2003). The test setup was made according to FCC Part 15 (2006) & ANSI C 63.4 (2003) on an open test site, which allows a 3m distance measurement. The EUT was placed in the center of wooden turntable. The height of this table was 0.8m. The measurement was conducted with both horizontal and vertical antenna polarization. The turntable has fully rotated. For further description of the configuration refer to the picture of the test setup.

5.1 Measurement equipments

Equipment Name	Туре	Manufacturer	Serial No.	Next Calibration date
TEST Receiver	ESVS10	Rohde & Schwarz	838562/002	2008. 1. 23
Spectrum Analyzer	R3261C	ADVANTEST	61720116	2008. 4. 20
LogBicon Antenna	VULB 9160	Schwarzbeck	3142	2008. 5. 07
Amplifier	8447F	HP	2805A02972	2008. 6. 26
Spectrum Analyzer	8563E	HP	3623A05297	2008. 5. 06
PREAMPLIFIER	8449B	HP	3008A00581	2008. 5. 06
Horm Antenna	BBHA 9120 D	Schwarzbeck	469	2008. 3. 31
Turn Table	2087	EMCO	2129	-
Antenna Mast	2070-01	EMCO	9702-203	-
ANT Mast Controller 2090		EMCO	1535	-
Turn Table Controller	2090	EMCO	1535	-

5.2 Environmental Condition

Test Place : Open site(3m)

Temperature (°C) : 26

Humidity (%) : 55 %

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5.3 Test data

Test Date: 19-Sep-07 Measurement Distance: 3 m

Frequency	Reading	Position	Height	Correction	n Factor		Result Value)
(MHz)	(dBμV)	(V/H)	(m)	Ant Factor (dB)	Cable (dB)	Limit (dB <i>µ</i> V/m)	Result (dBμV/m)	Margin (dB)
60.01	17.80	V	1.0	11.56	1.2	40.0	30.59	-9.41
67.90	17.90	V	1.0	10.22	1.3	40.0	29.41	-10.59
101.48	23.00	V	1.0	9.48	1.6	43.5	34.04	-9.46
110.88	23.30	V	1.0	10.34	1.6	43.5	35.27	-8.23
136.84	15.20	Н	2.5	12.48	1.8	43.5	29.50	-14.00
190.50	17.30	Н	1.9	10.40	2.2	43.5	29.86	-13.64
213.16	10.00	Н	3.2	10.11	2.3	43.5	22.44	-21.06
298.71	9.40	Н	2.7	13.07	3.0	46.0	25.44	-20.56
366.06	13.90	V	1.0	14.58	3.4	46.0	31.89	-14.11
396.70	9.90	Н	2.0	15.24	3.6	46.0	28.70	-17.30
528.77	8.30	V	1.0	17.81	4.4	46.0	30.55	-15.45
631.31	4.50	V	1.0	19.98	5.0	46.0	29.46	-16.54
793.60	5.80	Н	1.5	22.13	5.9	46.0	33.83	-12.17
925.46	5.20	V	1.0	23.61	6.7	46.0	35.53	-10.47
						<u> </u>		

H: Horizontal, V: Vertical

Remark

*CL = Cable Loss(In case of below1000Mhz)

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 $^{^{\}star}\text{Checked}$ in all 3 axis and the maximum measured data were reported.

^{*}CL = Cable Loss-Amplifier Gain(In case of above1000Mhz)

^{*}The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Quasi-peak detection at frequency below 1GHz.





6. Measurement of conducted disturbance

The continuous disturbance voltage of AC Mains in the frequency from 0.15 to 30 MHz was measured in accordance to FCC Part 15 (2006) & ANSI C 63.4 (2003) The test setup was made according to FCC Part 15 (2006) & ANSI C 63.4 (2003) in a shielded Room. The EUT was placed on a non-conductive table at least 80 above the ground plan. A grounded vertical reference plane was positioned in a distance of 40cm from the EUT. The distance from the EUT to other metal surfaces was at least 0.8m. The EUT was only earthen by its power cord through the line impedance stabilizing network. The power cord has been bundled to a length of 1.0m.. The test receiver with Quasi Peak detector complies with CISPR 16.

6.1 Measurement equipments

Equipment Name	Туре	Manufacturer	Serial No.	Next Calibration date
LISN	ESH3-Z5	Schwarzbeck	838979/010	2008. 2. 28
LISN	NNLA8120A	Schwarzbeck	8120161	2008. 2. 28
TEST Receiver	ESPI7	Rohde & Schwarz	100185	2008. 8. 27
Pulse Limiter	Pulse Limiter ESH3Z2		NONE	-

6.2 Environmental Condition

Test Place : Shielded Room

Temperature (°C) : 22

Humidity (%) : 53 %

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6.3 Test data

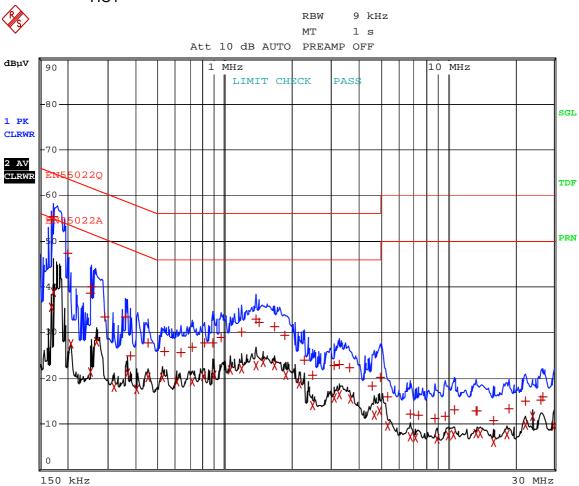
Test Date: 19-Sep-07

Frequency	Correction Factor		Line	Quasi-peak Value			Average Value		
(MHz)	Lisn (dB)	Cable (dB)	(H/N)	Limit (dB <i>µ</i> V)	Reading (dB _µ V)	Result (dB _# V)	Limit (dB <i>µ</i> V)	Reading (dB μ V)	Result (dB)
0.17	0.15	0.0	Н	64.86	55.47	55.66	54.86	38.84	39.03
0.20	0.12	0.0	Н	63.69	47.38	47.55	53.69	27.49	27.66
0.23	0.12	0.1	Ν	62.60	40.67	40.85	52.60	19.52	19.70
0.25	0.13	0.1	Н	61.76	38.55	38.73	51.76	21.46	21.64
0.26	0.13	0.1	Н	61.59	40.03	40.21	51.59	28.02	28.20
0.27	0.13	0.1	Ν	61.18	37.24	37.43	51.18	27.19	27.38
1.09	0.25	0.2	N	56.00	31.62	32.04	46.00	20.90	21.32
1.14	0.26	0.2	N	56.00	31.70	32.13	46.00	22.70	23.13
1.33	0.26	0.2	Ν	56.00	32.74	33.19	46.00	22.94	23.39
1.38	0.27	0.2	Н	56.00	32.86	33.32	46.00	22.90	23.36
1.43	0.27	0.2	Н	56.00	32.32	32.79	46.00	23.41	23.88
1.52	0.27	0.2	N	56.00	32.41	32.89	46.00	23.29	23.77
5.38	0.40	0.5	Ν	60.00	17.07	17.97	50.00	9.65	10.55
5.40	0.40	0.5	Н	60.00	15.96	16.86	50.00	9.68	10.58
9.02	0.59	0.7	Ν	60.00	13.38	14.66	50.00	7.54	8.82
9.85	0.64	0.7	Ν	60.00	13.93	15.30	50.00	8.43	9.80
13.47	0.77	0.9	Ν	60.00	13.90	15.58	50.00	8.44	10.12
26.18	0.93	1.3	Н	60.00	15.23	17.51	50.00	11.64	13.92
Remark	H: Hot Line, N: Neutral Line								

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Appendix 1. Spectral diagram





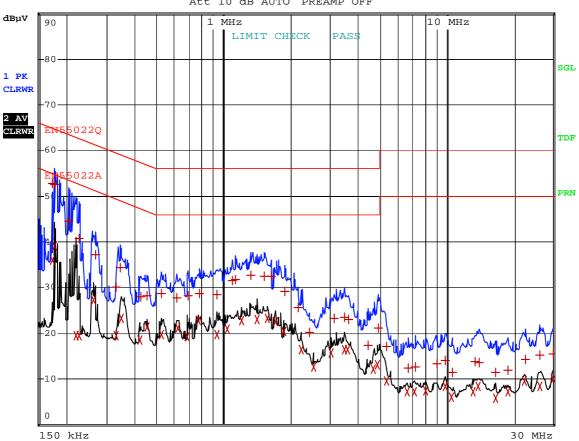
Comment: KP210_HOT

Date: 19.SEP.2007 17:45:55

*NEUTRAL



RBW 9 kHz MT1 s Att 10 dB AUTO PREAMP OFF



Comment: KP210_NEUTRAL
Date: 19.SEP.2007 17:50:23