



PCTEST Engineering Laboratory, Inc.

6660-B Dobbin Road • Columbia, MD 21045 • U.S.A.

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CERTIFICATE OF COMPLIANCE (SAR EVALUATION)

LG Electronics Inc.
Communication Terminal Research Lab
459-9, Kasan-dong, Keumchun-Ku
Seoul 153-023, Korea
Attn: Haris Ahn, Principal Engineer

Dates of Tests: July 24-26, 2001
Test Report S/N: SAR.210726454.BEJ
Test Site: PCTEST Lab, Columbia, MD USA

FCC ID

BEJDB525

APPLICANT

LG ELECTRONICS INC.

EUT Type: Dual-Band Analog/PCS Phone (AMPS/CDMA)
Tx Frequency: 824.04 – 848.97 MHz (AMPS) / 1851.25 – 1908.75 MHz (PCS CDMA)
Rx Frequency: 869.04 – 893.97 MHz (AMPS) / 1931.25 – 1988.75 MHz (PCS CDMA)
Max. RF Output Power: 0.405 W ERP AMPS (26.07 dBm) / 0.2334 W EIRP PCS CDMA (23.68 dBm)
Max. SAR Measurement: 0.933mW/g AMPS Head SAR; 0.510mW/g AMPS Body SAR;
1.14mW/g PCS Head SAR; 0.210mW/g PCS Body SAR;
Trade Name/Model(s): LG-DB525
FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2.1093; FCC/OET Bulletin Supplement C [July 2001]
Application Type: Certification

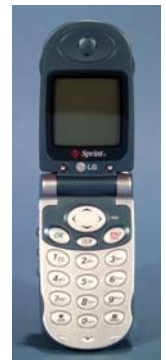
This wireless portable device has been shown to be capable of continued compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in ANSI/IEEE Std. C95.3-1992 and IEEE Std. 1528 (Draft Aug.2000).

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.

NVLAP accreditation does not constitute any product endorsement by NVLAP or any agency of the United States Government.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President





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CERTIFICATE OF COMPLIANCE FCC Part 24 & 22 Certification

LG ELECTRONICS INC.
Communication Terminal Research Lab
459-9, Kasan-dong, Keumchun-Ku
Seoul 153-023, Korea
Attn: Harris Ahn, Principal Engineer

Dates of Tests: July 24-26, 2001
Test Report S/N: 22/24.210726453.BEJ
Test Site: PCTEST Lab, Columbia MD

FCC ID

BEJDB525

APPLICANT

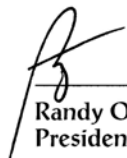
LG ELECTRONICS INC.

Classification:	Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§24(E), §22(H), §22.901(d); §2
EUT Type:	Dual-Band Analog/PCS Phone (AMPS/CDMA)
Trade Name/Model:	LGE DB-525
Tx Frequency Range:	824.04MHz – 848.97MHz (AMPS) / 1851.25MHz – 1908.75MHz (PCS CDMA)
Rx Frequency Range:	869.04MHz – 893.97MHz (AMPS) / 1931.25MHz – 1988.75MHz (PCS CDMA)
Max. RF Output Power:	0.405 W ERP AMPS (26.073 dBm) / 0.233 W EIRP PCS CDMA (23.681 dBm)
Max. SAR Measurement:	0.933mW/g AMPS Brain SAR; 0.510mW/g AMPS Body SAR; 1.14mW/g PCS Brain SAR; 0.210mW/g PCS Body SAR;
Emission Designator(s):	40K0F8W, 40K0F1D, 1M25F9W

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 §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.

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Randy Ortanez
President



NVLAP[®]
LAB CODE 100431-0

7.1 SYSTEM SPECIFICATIONS

7.2 Robotic System Specifications

Specifications

POSITIONER: Stäubli Unimation Corp. Robot Model: RX60L
Repeatability: 0.02 mm
No. of axis: 6

Data Acquisition Electronic (DAE) System

Cell Controller

Processor: Pentium III
Clock Speed: 450 MHz
Operating System: Windows NT
Data Card: DASY3 PC-Board

Data Converter

Features: Signal Amplifier, multiplexer, A/D converter, and control logic
Software: DASY3 software
Connecting Lines: Optical downlink for data and status info.
Optical uplink for commands and clock

PC Interface Card

Function: 24 bit (64 MHz) DSP for real time processing
Link to DAE3
16 bit A/D converter for surface detection system
serial link to robot
direct emergency stop output for robot

E-Field Probes

Model: ET3DV6 S/N: 1560
Construction: Triangular core fiber optic detection system
Frequency: 10 MHz to 6 GHz
Linearity: ± 0.2 dB (30 MHz to 3 GHz)

Phantom

Phantom: Generic Twin
Shell Material: Fiberglass
Thickness: 2.0 ± 0.1 mm

Measured Tissue Parameters	800-850 MHz (Brain)	800-850 MHz (Muscle)	1850-1910 MHz (Brain)	1850-1910 MHz (Muscle)
Dielectric Constant: ϵ	41.5	55.2	40.0	53.3
Conductivity: σ	0.90	0.97	1.82	1.52

6.1 Test Data

6.2 Equivalent Isotropic Radiated Power (EIRP.)

Radiated measurements at 3 meters

Supply Voltage: 3.6 VDC

Modulation: PCS CDMA

FREQ. (MHz)	LEVEL (dBm)	POL (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1851.25	-19.400	H	60	23.681	0.234	Standard
1880.00	-19.800	H	60	23.451	0.221	Standard
1908.75	-20.000	H	60	23.421	0.220	Standard

Note: Standard and Extended batteries are both battery options for this phone

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603 (rev.1998):

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. 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.