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RADIOFREQUENCY RADIATION EXPOSURE REPORT

Mobiles /Fixed Base Station Maximum Permissible Exposure (MPE)

	OF
Product Name:	LGG
Brand Name:	N/A
Model Name:	LGG
FCC ID:	USF-76474745
Report No.:	ER/2006/90006A
Issue Date:	Oct. 25, 2006
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ID: USF-76474745

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1. GENERAL INFORMATION

1.1 Product Description

Product	LGG	
Model Name	LGG	
Model Difference:	N/A	
Brand Name	N/A	
Frequency Range and	GSM 850: 824 MHz – 849 MHz	33 dBm
Power	GSM 1900: 1850 MHz –1910 MHz	30 dBm
Type of Emission	300KGXW	
Power Supply	12V DC by Car Battery	
Antenna Type	Dipole Antenna, 1 dBi	

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: <u>USF-76474745</u> filing to comply with Section Part 22, subpart H of the FCC CFR 47 Rules. For 47 CFR 1.1310 Radiofrequency Radiation Exposure requirement.

1.3 Test Methodology

The testing were performed according to the procedures document on IEEE C95.1, chapter 13 of ANSI C63.4 (2003) and TIA/EIA-603-1-1998.



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1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2001 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Anechoic chamber (3 meters) Registration Number: 573967

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.



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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode link mode with GSM/GPRS Base station. the Tx frequency was fixed which was for the purpose of the measurements with max output power level..

2.3 Test Procedure

Maximum Permissible Exposure (MPE) measurement:

In accordance with ANSI 63.4:2003, the EUT is a placed on as turn table which is 1 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 20 cm away from the receiving probe In order to find out the max. emission, the ambient temperature of the actual EUT was maintained within the range of 10 to 40 C unless the particular equipment requirements specify testing over a different temperature range, unless otherwise indicated, the humidity levels where in the range of 10% to 90% relative humidity.

2.4 Limitation

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(minute)
	Limits for General	Population/Unconti	rolled Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.
1.	DC Power Supply	TOPWARD	3303A	N/A	715856

3. Description of test modes

The EUT has been tested under normal operating link mode with GSM/GPRS Base Station. condition. the Tx frequency was fixed which was for the purpose of the measurements with max output power level.

The GSM 850 channel 251 (channel High) which has the max conducted power level was chosen for testing and reported.



4. Maximum Permissible Exposure (MPE) Measurement

4.1.Measurement Procedure:

- 1. The following measurements were performed with a field probe using
- 2. The EUT's radiating element (antenna) was placed on a 1 m tall table for ease of testing. For equipment normally operated on a metal surface, a ground plane was used.
- 3. The remaining equipment necessary to operate the EUT was maintained at a distance from the measurement arrangement suitable to minimize interference with the measurements.
- 4. With the EUT operating at maximum power, a search was initiated for worst case emissions with the probe raised and lowered over a range of 0.2 to 2 meters in height and over a horizontal plane of 00 to 3600.

Turntable EUT 3m PC beneficial of the second second

4.2. Test SET-UP (Block Diagram of Configuration)

4.3. Measurement Equipment Used:

966 Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL
ТҮРЕ		NUMBER	NUMBER	CAL.	DUE.
STRENGTH FIELD Meter	WG	EMR-30	BN2244/80	10/30/2005	10/30/2006
Turn Table	HD	DT420	N/A	N/A	N/A
Antenna Tower	HD	MA240-N	240/657	N/A	N/A
Controller	HD	HD100	N/A	N/A	N/A



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4.4.Measurement Result:

Operation Mode	: TX CH High Mode	Test Date	: Oct. 18, 2006
Fundamental Frequency	: 848.80 MHz	Test By	: Alex
Temperature	: 25°C	Humidity	: 65%

Probe Height	Power Density	Limit at 20cm
(m)	(mw/cm ⁺²)	$(\mathrm{m}\mathrm{w}/\mathrm{cm}^{-2})$
2.0	0.0001	1.0
1.8	0.0002	1.0
1.6	0.0004	1.0
1.4	0.0005	1.0
1.2	0.0027	1.0
1.0	0.0034	1.0
0.8	0.0011	1.0
0.6	0.0007	1.0
04	0.0003	1.0
02	0.0002	1.0



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APPENDIX 1

PHOTOGRPHS OF SET UP



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Setup Photos

