







## FCC RF EXPOSURE INFORMATION

**WARNING!** *Read this information before using your phone*



In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.



Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

### **Body-worn Operation**

For body-worn operation, to maintain compliance with FCC RF exposure guidelines, use only Samsung approved accessories. When carrying the phone while it is on, use the specific Samsung belt-clip that has been tested for compliance. The use of non-Samsung approved accessories may violate FCC RF exposure guidelines and should be avoided.

***For more information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov)***

**LAMPS(EM)**

TEST ITEMS	PROCEDURE														
1. PREPARATION	<p>Set test equipments up.</p> <p>Confirm that the phone is in the Analog Mode! ( "10000" or "10001" at Test Command "2 0".)</p> <p>"* 7 5 9 # 8 1 3 5 8 0" : Enter the Test Mode</p> <p>"0 1" : Suspend</p> <p>"4 6" : Initialize Vocoder in Analog mode</p> <p>If a wrong key would be selected, press "#", and then enter new command.</p> <p>To exit the Test Mode at any time, just press [0 2].</p>														
2. RF POWER	<p>"0 1" : Suspend.</p> <p>"4 6" : Initialize Vocoder in Analog mode.</p> <p>"0 9 Q 3 6 3 #" : Set channel to 363.</p> <p>"0 7" : Carrier On.</p> <p>"1 0 2" : RF Power level selection, "2" means one of the power levels (0-7).</p> <p>Measurement of the Power Output Levels</p> <table data-bbox="536 1053 1115 1244"> <thead> <tr> <th>Level</th> <th></th> </tr> </thead> <tbody> <tr> <td>0 - 2</td> <td>+ 26.6 dBm + 0.2/-4 dB</td> </tr> <tr> <td>3</td> <td>+ 23 dBm +2/-4 dB</td> </tr> <tr> <td>4</td> <td>+ 19 dBm +2/-4 dB</td> </tr> <tr> <td>5</td> <td>+ 15 dBm +2/-4 dB</td> </tr> <tr> <td>6</td> <td>+ 12 dBm +2/-4 dB</td> </tr> <tr> <td>7</td> <td>+ 9 dBm +2/-4 dB</td> </tr> </tbody> </table> <p>"0 8" : Carrier off</p> <p>Note 1 : In case of using the antenna cable, compensation for the cable loss should be added (about 1.5dB).</p> <p>Note 2 : To prevent phones from being damaged, they must be measured only by calibrated test equipments.</p> <p>Warning ! Adjustments without calibrated equipments can cause phones to be heated excessively and would void the warranty.</p>	Level		0 - 2	+ 26.6 dBm + 0.2/-4 dB	3	+ 23 dBm +2/-4 dB	4	+ 19 dBm +2/-4 dB	5	+ 15 dBm +2/-4 dB	6	+ 12 dBm +2/-4 dB	7	+ 9 dBm +2/-4 dB
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3. TX FREQUENCY	<p>"0 1" : Suspend.</p> <p>"4 6" : Initialize Vocoder in Analog mode.</p> <p>"0 9 Q 3 6 3 #" : Set channel to 363.</p> <p>"0 7" : Carrier On.</p> <p>Measure the TX frequency : 835.89 MHz*2.5ppm.</p>														

# PCTEST Engineering Laboratory, Inc.

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## CERTIFICATE OF COMPLIANCE (SAR EVALUATION) - AMENDMENT

SAMSUNG ELECTRONICS CO., LTD.  
416 Maetan-3 Dong, Paldal-Ku  
Suwon City, Kyungki-Do 441-742, KOREA  
Attn: Wallace Oh, Engineering Manager  
Samsung Electronics America (QA Lab)

Dates of Tests: August 3-4, 2000  
Test Report S/N: SAR.200803390.A3L  
Test Site: PCTEST Lab, Columbia MD U.S.A.

FCC ID

**A3LSCH855**

APPLICANT

**SAMSUNG Electronics Industries Co., Ltd.**

EUT Type: Dual-Mode Cellular Phone (AMPS/CDMA)  
Tx Frequency: 824.04 – 848.97 MHz (AMPS) / 824.70 – 848.31 MHz (CDMA)  
Rx Frequency: 869.04 – 893.97 MHz (AMPS) / 869.70 – 893.31 MHz (CDMA)  
Max. RF Output Power: 0.6W ERP AMPS (27.78 dBm) / 0.350W ERP CDMA (25.44 dBm)  
Trade Name/Model(s): SAMSUNG SCH-855, SCH-811i  
FCC Classification: Non-Broadcast Transmitter Held to Ear (TNE)  
FCC Rule Part(s): 2.1093; ET Docket 96.326

This wireless portable device has been shown to be capable of 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 (See Test Report).

Part 22 AMPS Mode -	Head Max. SAR:	1.4017 W/kg	FCC Limit: 1.6 W/kg
	Body Max. SAR:	0.7636 W/kg	FCC Limit: 1.6 W/kg
	Hand Max. SAR:	1.4480 W/kg	FCC Limit: 4.0 W/kg (10 gm Avg.)
Part 22 CDMA Mode -	Head Max. SAR:	0.5755 W/kg	FCC Limit: 1.6 W/kg
	Body Max SAR:	0.3121 W/kg	FCC Limit 1.6 W/kg

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 & Chief Engineer

200803390. A3L



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LAB CODE 100431-0

## 13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C)	23.0
Relative HUMIDITY (%)	54.0
Atmospheric PRESSURE (kPa)	96.2

Mixture Type: Muscle

Dielectric Constant: 51.7

Conductivity: 1.10 S/m

### 13.4 Measurement Results (CDMA Body SAR)

FREQUENCY		Modulation	POWER * (dBm)	Separation Distance (cm)**	Antenna Position	SAR (W/kg)
MHz	Ch.					
835.89	363	CDMA	23.3	2.54	IN	0.3121
835.89	363	CDMA	23.3	2.54	OUT	0.3092
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population</b>				<b>Body 1.6 W/kg (mW/g) averaged over 1 gram</b>		

NOTES:

- All modes of operation were investigated and the worst-case are reported.
- Battery condition is fully charged for all readings.
- Battery Type  Standard  Extended  Slim  
 Radiated measurements indicate that the extended-life battery produces a maximum ERP, therefore the extended-life battery is used.
- \* Power Measured  Conducted  EIRP  ERP
- SAR Measurement System  SPEAG  IDX
- SAR Configuration  Head  Body  Hand
- \*\* Test Configuration  Body Holster  Without Body Holster

  
 Randy Ortanez  
 President & Chief Engineer



Figure 17. Body SAR Test Setup