



# PCTEST ENGINEERING LABORATORY, INC.

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## CERTIFICATE OF COMPLIANCE (SAR EVALUATION)

**Applicant Name:**  
Samsung Electronics, Co. Ltd.  
18600 Broadwick St.  
Rancho Dominguez, CA 90220 USA

**Date of Testing:**  
01/17/07 - 01/22/07  
**Test Site/Location:**  
PCTEST Lab, Columbia, MD, USA  
**Test Report Serial No.:**  
0701170028-R1

**FCC ID:** A3LSCHI760

**APPLICANT:** SAMSUNG ELECTRONICS, CO. LTD.

**EUT Type:** Dual-Band CDMA Phone with 802.11b/g WLAN, Bluetooth 2.0 and EVDO Rev.0  
**Application Type:** Certification  
**FCC Rule Part(s):** §2.1093; FCC/OET Bulletin 65 Supplement C [July 2001]  
**FCC Classification:** Licensed Transmitter Held to Ear (PCE)  
Digital Transmission System (DTS)  
**Model(s):** SCH-i760, SCH-i761, SCH-i762, SCH-i763, SCH-i764, SCH-i765, SCH-i766, SCH-i767, SCH-i768, SCH-i769, SPH-i760, SPH-i761, SPH-i762, SPH-i763, SPH-i764, SPH-i765, SPH-i766, SPH-i767, SPH-i768, SPH-i769  
**Tx Frequency:** 824.70 - 848.31 MHz (Cellular CDMA)  
1851.25 - 1908.75 MHz (PCS CDMA)  
2412 - 2462 MHz (802.11b/g WLAN)  
2402 - 2480 MHz (Bluetooth)  
**Max. RF Conducted Power:** 25.5 dBm CDMA / 25.5 dBm PCS / 17.61 dBm WLAN / 0.99 dBm Bluetooth  
(All Tx can simultaneously transmit)  
**Max. SAR Measurement:** 0.728 W/kg CDMA850 Head SAR / 1.27 W/kg CDMA850 Body SAR  
0.271 W/kg CDMA1900 Head SAR / 0.286 W/kg CDMA1900 Body SAR  
0.142 W/kg 802.11b Head SAR / 0.117 W/kg 802.11b Body SAR  
0.00514 W/kg Bluetooth Head SAR / 0.0076 W/kg Bluetooth Body SAR  
**Test Device Serial No.:** Pre-Production [S/N: FD-249-E]

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. C95.1-2005 and has been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-2003.

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.

**\*This revised Test Report (S/N: 0701170028-R1) supersedes and replaces the previously issued test report on the same subject EUT for the same type of testing as indicated. Please discard or destroy the previously issued report (S/N: 0701170028) and dispose of it accordingly.**

**Grant Conditions:** Power output listed is ERP for Part 22 and EIRP for Part 24. SAR compliance for body-worn operating configuration is based on a separation distance of 1.5 cm between the back of the unit and the body of the user. End-users must be informed of the body-worn operating requirements for satisfying RF exposure compliance. Belt clips or holsters not specified in this filing may not contain metallic components.



*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.*

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## 14.5 Body SAR Results

MEASUREMENT RESULTS													
FREQUENCY		Mode	Data Rate [Mbps]	C_Power[dBm]		Service	Spacing	Antenna Type	Battery	Memory	Side	SAR	Note
MHz	Ch.			Start	End							(W/kg)	
824.70	1013	CDMA	-	25.68	25.63	TDSO32	1.5 cm	Internal	Standard	no	back	1.060	
836.52	384	CDMA	-	25.67	25.51	TDSO32	1.5 cm	Internal	Standard	no	back	1.230	
848.31	777	CDMA	-	25.67	25.81	TDSO32	1.5 cm	Internal	Standard	no	back	1.160	
836.52	384	CDMA	-	25.67	25.73	TDSO32	1.5 cm	Internal	Extended	no	back	1.130	
836.52	384	CDMA	-	25.67	25.79	TDSO32	1.5 cm	Internal	Standard	yes	back	1.210	
836.52	384	CDMA	-	25.67	25.60	TDSO32	1.5 cm	Internal	Standard	no	front	0.391	
836.52	384	CDMA	-	25.67	25.65	TDSO32	1.5 cm	Internal	Standard	no	back	1.270	with 802.11b + BT
1880.00	600	PCS	-	25.34	25.51	TDSO32	1.5 cm	Internal	Standard	no	back	0.262	
1880.00	600	PCS	-	25.34	25.48	TDSO32	1.5 cm	Internal	Extended	no	back	0.224	
1880.00	600	PCS	-	25.34	25.38	TDSO32	1.5 cm	Internal	Standard	yes	back	0.235	
1880.00	600	PCS	-	25.34	25.32	TDSO32	1.5 cm	Internal	Standard	no	front	0.074	
1880.00	600	PCS	-	25.34	25.24	TDSO32	1.5 cm	Internal	Standard	no	back	0.286	with 802.11b + BT
2412	1	802.11b	1.0	17.61	17.58	-	1.5 cm	Internal	Standard	no	back	0.117	
2437	6	802.11b	1.0	17.25	17.08	-	1.5 cm	Internal	Standard	no	back	0.083	
2462	11	802.11b	1.0	15.66	15.81	-	1.5 cm	Internal	Standard	no	back	0.060	
2412	1	802.11b	1.0	17.61	17.44	-	1.5 cm	Internal	Extended	no	back	0.111	
2412	1	802.11b	1.0	17.61	17.49	-	1.5 cm	Internal	Standard	yes	back	0.117	
2412	1	802.11b	1.0	17.61	17.79	-	1.5 cm	Internal	Standard	no	front	0.038	
2441	39	Bluetooth	-	0.73	0.61	-	1.5 cm	Internal	Standard	no	back	0.008	
2441	39	Bluetooth	-	0.73	0.86	-	1.5 cm	Internal	Standard	no	front	0.004	
<b>ANSI / IEEE C95.1 2005 - SAFETY LIMIT</b>								<b>Muscle</b>					
<b>Spatial Peak</b>								<b>1.6 W/kg (mW/g)</b>					
<b>Uncontrolled Exposure/General Population</b>								<b>averaged over 1 gram</b>					

1. The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Batteries are fully charged for all readings. Standard and Extended batteries were investigated..
4. Tissue parameters and temperatures are listed on the SAR plots.
5. Both sides of the phone were tested, and the worst-case is reported.
6. Liquid tissue depth is 15.1 cm.  $\pm$  0.1.
7. Device was tested using a fixed spacing.
8. Body SAR was tested under RC3/SO32. EVDO is evaluated when the conducted powers are 0.25 dB or greater than the RC3/SO32 conducted power.

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