

Test Report

Conducted Output power GSM 900 / 1800 / 1900



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Test Sites: COM MP PD ST2 KLF
Development Center Kamp-Lintfort
Phone: +49 28 42/95 56 47
Fax: +49 28 42/95 47 17

Andreas Zimmer
RF Test Engineer, System Test

Gerhard Maurer
Subproject leader RF

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1 Objective and Method

FCC approval for mobile phones requires reporting output power at RF output terminal pursuant to title 47 CFR part 2.1046. SIEMENS devices use special test fixtures with 50 Ohm connection suitable for such measurements. Using a special adapter and connecting the phone to an appropriate load in terms of the input port of the measurement equipment used, we hereby report the values for highest power setting.

2 Results

2.1 GSM 900

Device	Average Power during burst at connector		
	Ch. 975 880.2 MHz	Ch. 63 902.6 MHz	Ch. 124 914.8 MHz
Siemens A65, "SAR Sample 1" IMEI: 004400 00 601094 4	32.3	32.3	32.3
Siemens A65, "SAR Sample 2" IMEI: 004400 00 601158 7	32.1	32.1	32.2
Siemens A65, "x Sample 1" IMEI: 004400 00 601092 8	32.1	32.1	32.2
Siemens A65, "x Sample 2" IMEI: 004400 00 601085 2	32.0	32.0	32.1

Table 1: Results of power measurements at connector in the GSM 900 Band

2.2 GSM 1800

Device	Average Power during burst at connector		
	Ch. 512 1710.2 MHz	Ch. 698 1747.4 MHz	Ch. 885 1784.8 MHz
Siemens A65, "SAR Sample 1" IMEI: 004400 00 601094 4	29.6	29.7	29.5
Siemens A65, "SAR Sample 2" IMEI: 004400 00 601158 7	29.4	29.6	29.4
Siemens A65, "x Sample 1" IMEI: 004400 00 601092 8	29.6	29.7	29.5
Siemens A65, "x Sample 2" IMEI: 004400 00 601085 2	29.5	29.6	29.4

Table 2: Results of power measurements at connector in the GSM 1800 Band

2.3 GSM 1900

Device	Average Power during burst at connector		
	Ch. 512 1850.2 MHz	Ch. 661 1880.0 MHz	Ch. 810 1909.8 MHz
Siemens A65, "SAR Sample 1" IMEI: 004400 00 601094 4	29.3	29.4	29.3
Siemens A65, "SAR Sample 2" IMEI: 004400 00 601158 7	29.2	29.3	29.3
Siemens A65, "x Sample 1" IMEI: 004400 00 601092 8	29.3	29.4	29.4
Siemens A65, "x Sample 2" IMEI: 004400 00 601085 2	29.3	29.4	29.4

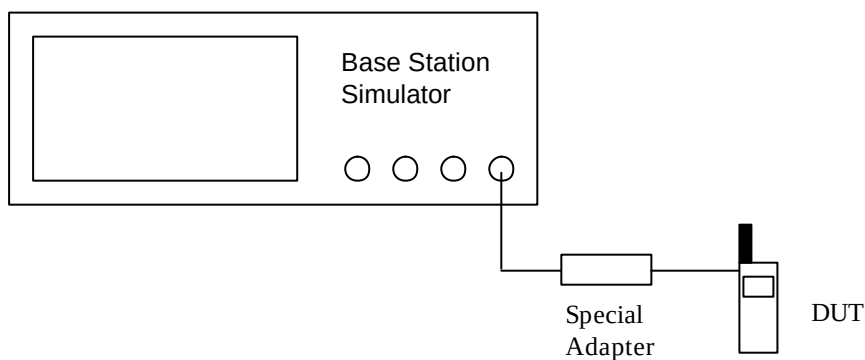
Table 3: Results of power measurements at connector in the GSM 1900 Band

3 Minutes of Test

3.1 Description of device under test

Mobile Phone:	Siemens A65
Frequency Range GSM 900:	880 – 915 MHz
Frequency Range GSM 1800:	1710 – 1785 MHz
Frequency Range GSM 1900:	1850 – 1990 MHz
Siemens Part Number:	S30880-S5810-****-*
FCC ID	PWX-A65

3.2 Measurement Set-up



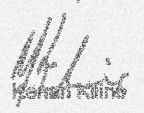
Base Station Simulator:	CMU 200
Serial Number:	103958
Software Version:	Base 3.52 / GSM 3.52

Figure 1: Block Diagram of set-up for conducted power measurement



Figure 2: Set-up for conducted power measurement

4 Calibration Certificate

 ROHDE & SCHWARZ Messgerätebau GmbH	
650 604 42	
Kalibrierschein <i>Calibration Certificate</i>	Nummer 20-120756 <i>Number</i>
Gegenstand <i>Item</i>	UNIVERSAL RADIO COMMUNICATION TESTER
Hersteller <i>Manufacturer</i>	ROHDE & SCHWARZ
Typ <i>Type</i>	CMU200
Material Nr. <i>Material No.</i>	1100.0008K02
Serial Nr. <i>Serial No.</i>	103958
Auftraggeber <i>Customer</i>	
Bestellung Nr. <i>Order No.</i>	
Ort u. Datum d. Kalibrierung <i>Place and date of calibration</i>	Memmingen, 2003-10-28
Umfang der Kalibrierung <i>Scope of calibration</i>	Standard Calibration
Eingangsprüfung <i>Performance on receipt</i>	
Kalibrierergebnis <i>Result of calibration</i>	Measurement results within specifications
Umfang des Kalibrierscheins <i>Extent of the certificate</i>	3 pages 64 pages test report
2. Zertifikatskopf Num. 20-120756 Datum 2003-10-28	
Ausstellungsdatum <i>Date of issue</i>	2003-10-28
Leiterleitung <i>Head of laboratory</i>	
Berichter <i>Person responsible</i>	
Rohde & Schwarz Messgerätebau GmbH Postfach 1802 D-87308 Memmingen Rodachstraße 18 D-87700 Memmingen Telefon national: 00391/108-0; international: 0049 8931/108-0; Fax: 00391/108-124 Geschäftsführer: Dipl.-Ing. Dietrich-Ing. Friedrich Schwarz · Aufsichtsratsvorsitzender: Ing. (grad) Dieter Eneke Sitz der Gesellschaft: München · Registergericht: Amtsgericht München HRB 1066	