

Test Report

Conducted Output Power GSM850/PCS1900

Siemens CF76

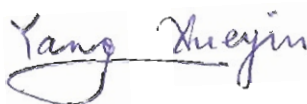
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1 Objective and Method

FCC approval for mobile phone 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 Device under test

Mobile Phone:	Siemens CF76 (GSM850/PCN1800/PCS1900)
Frequency Range GSM 850:	824– 894 MHz
Frequency Range GSM 1800:	1710 – 1880 MHz
Frequency Range GSM 1900:	1850 – 1990 MHz
Siemens Part Number:	S30880-S6090-*

There are 10 devices has been tested listed in “Chapter 4 Test Result”.

3 Measurement Set-up

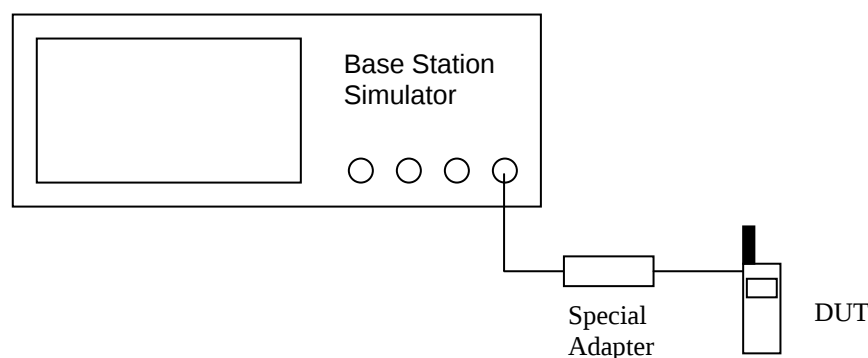


Figure 1: Block Diagram of set-up for conducted power measurement

Base Station Simulator	CMU 200
Serial Number	105851
Software Version	Base 3.61 / GSM 3.61
Calibration Certification	Annex 1

Test Voltage:	4.0 V
Temperature:	Room Temperature

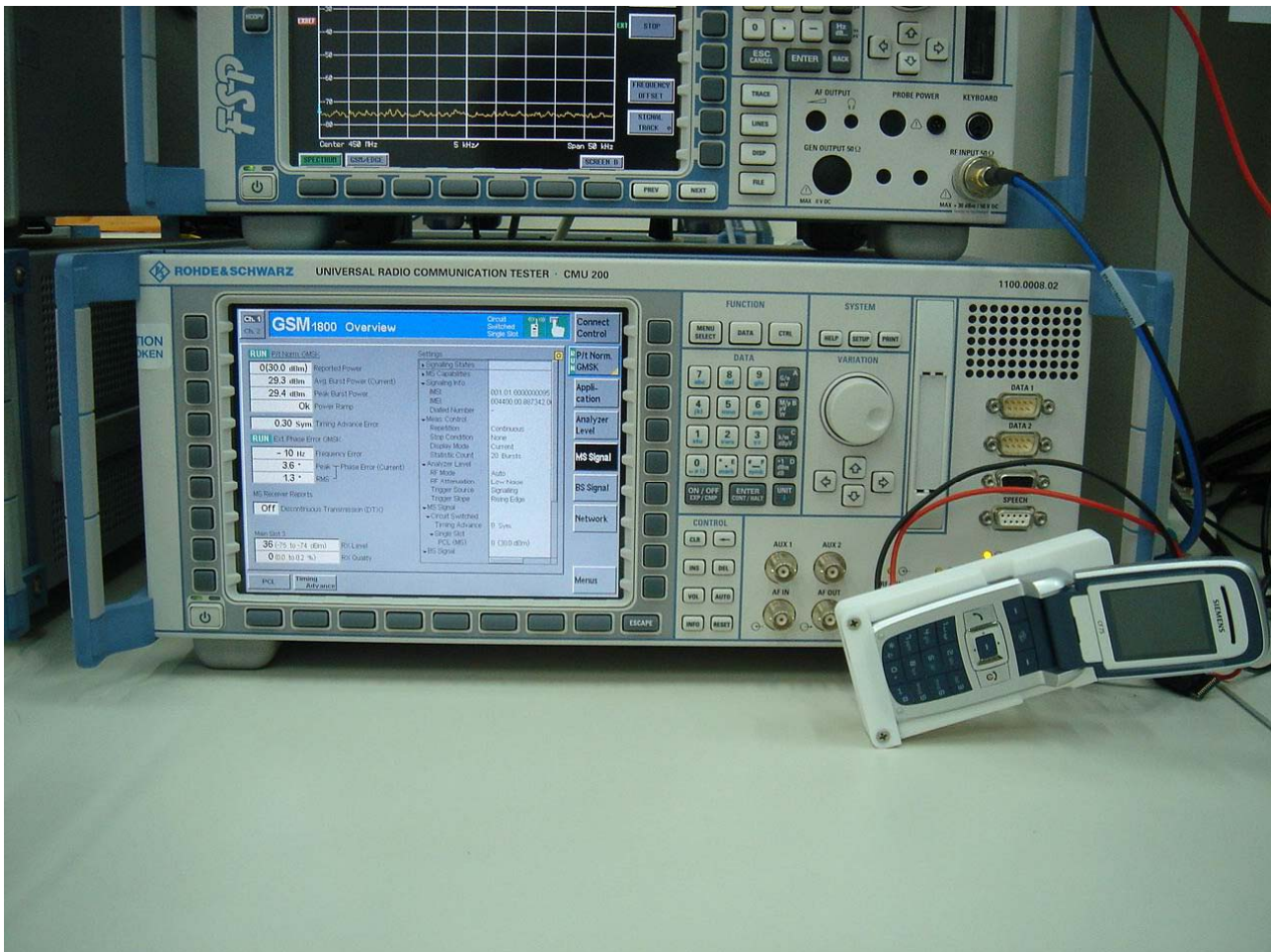


Figure 2: Set-up for conducted power measurement

4 Test Result**Conducted Output Power (GSM850 Band)**

EUTs		Average Power during burst at phone connector (dBm)		
CF76	IMEI	Ch. 128 824.2 MHz	Ch. 190 836.6 MHz	Ch. 251 848.8 MHz
FCC Emission Sample #1	004400014518219	31.6	31.5	31.5
FCC Emission Sample #2	004400014517500	31.6	31.4	31.4
FCC Emission Sample #3	004400014517179	31.6	31.5	31.5
FCC Emission Sample #4	004400014517153	31.6	31.5	31.5
FCC Emission Sample #5	004400014518318	31.6	31.5	31.6
FCC Emission Sample #6	004400014516874	31.6	31.4	31.5
FCC Emission Sample #7	004400014516965	31.6	31.5	31.5
FCC Emission Sample #8	004400014516932	31.6	31.4	31.4
FCC Emission Sample #9	004400014517799	31.6	31.4	31.5
FCC Emission Sample #10	004400014517575	31.6	31.4	31.4

Conducted Output Power (PCS1900 Band)

EUTs		Average Power during burst at phone connector (dBm)		
CF76	IMEI	Ch. 512 1850.2 MHz	Ch. 661 1880.0 MHz	Ch. 810 1909.8 MHz
FCC Emission Sample #1	004400014518219	28.8	28.9	28.9
FCC Emission Sample #2	004400014517500	28.8	28.8	28.9
FCC Emission Sample #3	004400014517179	28.8	28.9	28.9
FCC Emission Sample #4	004400014517153	28.8	28.9	29.0
FCC Emission Sample #5	004400014518318	28.8	28.9	28.9
FCC Emission Sample #6	004400014516874	28.8	28.9	29.0
FCC Emission Sample #7	004400014516965	28.8	28.9	28.9
FCC Emission Sample #8	004400014516932	28.9	29.0	29.0
FCC Emission Sample #9	004400014517799	28.8	28.8	28.9
FCC Emission Sample #10	004400014517575	28.9	29.0	29.0

Annex 1 Calibration Certificate

**ROHDE & SCHWARZ**

Messgerätebau GmbH

Kalibrierschein**Calibration Certificate****Nummer 20-137411****Number**

Gegenstand
Item

CMU200 UNIV.RADIOCOMM.

Hersteller
Manufacturer

ROHDE & SCHWARZ

Typ
Type

CMU200

Material Nr.
Material No.

1100.0008K02

Serial Nr.
Serial No.

105851

Auftraggeber
Customer

Bestellung Nr.
Order No.

Ort u. Datum d. Kalibrierung
Place and date of calibration

Memmingen, 2004-08-11

Umfang der Kalibrierung
Scope of calibration

Standard Calibration

Eingangsprüfung
Performance on receipt

Kalibrierergebnis
Result of calibration

Measurement results within specifications

Umfang des Kalibrierscheins
Extent of the certificate

3 pages
60 pages test report

Dieser Kalibrierschein dokumentiert, daß der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Meßwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95 % im zugeordneten Werteintervall (Erweiterte Meßunsicherheit mit $k = 2$). Die Kalibrierung erfolgte mit Meßmitteln und Normen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien.

Grundsätze und Verfahren der Kalibrierung entsprechen IEC/ISO 17025. Das Bestätigungssystem für die verwendeten Meßmittel entspricht DIN ISO 10012-1.

Das angewandte Qualitätsmanagement-System ist zertifiziert nach DIN EN ISO 9001.

Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Signifizierungen sind ungültig.

Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents, that the named item is tested and measured against defined specifications.

Measurement results are located usually in the corresponding interval with a probability of approx. 95 % (coverage factor $k = 2$).

Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no national standards are available, measurements are referenced to standards of the R&S laboratories.

Principles and methods of calibration correspond with IEC/ISO 17025. The metrological confirmation system for the measuring equipment used is in compliance with DIN ISO 10012-1. The applied quality system is certified to DIN EN ISO 9001.

This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid.

The user is obliged to have the item recalibrated at appropriate intervals.



Ausstellungsdatum
Date of issue

2004-08-11

Laborleitung
Head of laboratory

Stegmüller

Bearbeiter
Person responsible

Wolfgang Schöning

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