

Test Report

Conducted Output Power GSM 850, GSM 1900

SIEMENS A56

Report no: EMC_A56_12
Issue date: September 26, 2002

Test Site

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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 feature a special 50 Ohm RF connector suitable for such measurement. Using a special adapter and connecting to an appropriate load in terms of the input port of measurement equipment used, we report hereby the values for highest power setting.

2 Results

2.1 GSM 850 Band

Device	Average Power during burst at connector		
	ARFCN 128 824.2 MHz	ARFCN 190 836.6 MHz	ARFCN 251 848.8 MHz
Siemens A56, "SAR Sample 1" IMEI: 001002000132857	+32.5 dBm	+32.3 dBm	+32.0 dBm
Siemens A56, "SAR Sample 2" IMEI: 001002000132972	+32.5 dBm	+32.3 dBm	+32.0 dBm
Siemens A56, "FCC Sample 1" IMEI: 001002000132683	+32.5 dBm	+32.3 dBm	+32.0 dBm
Siemens A56, "FCC Sample 2" IMEI: 001002000132741	+32.5 dBm	+32.3 dBm	+32.0 dBm

Tab. 1: Results of power measurements at connector for Siemens A56

2.2 GSM 1900 Band

Device	Average Power during burst at connector		
	ARFCN 512 1850.2 MHz	ARFCN 661 1880.0 MHz	ARFCN 810 1909.8 MHz
Siemens A56, "SAR Sample 1" IMEI: 001002000132857	+29.1 dBm	+29.0 dBm	+29.0 dBm
Siemens A56, "SAR Sample 2" IMEI: 001002000132972	+29.0 dBm	+29.0 dBm	+29.0 dBm
Siemens A56, "FCC Sample 1" IMEI: 001002000132683	+29.0 dBm	+29.0 dBm	+29.0 dBm
Siemens A56, "FCC Sample 2" IMEI: 001002000132741	+29.1 dBm	+29.0 dBm	+29.0 dBm

Tab. 2: Results of power measurements at connector for Siemens A56

3 Minutes of Test

3.1 Description of Device under Test

Siemens Mobile Phone: A56
Frequency range GSM 850: 824-849 MHz
Frequency range GSM 1900: 1850-1990 MHz
Siemens part number: S30880-S5320-*
FCC ID: PWX-A56

3.2 Measurement Set Up

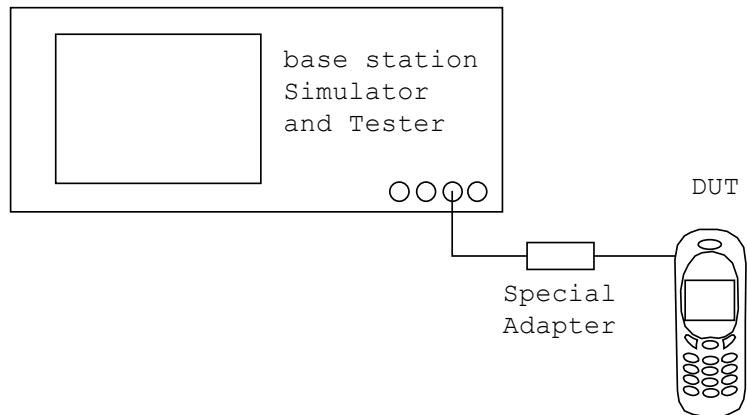
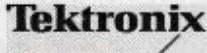


Fig. 1: Block diagram of set up for conducted power measurement



Fig. 2: Set up for conducted power measurement

4 Calibration Certificate

		TEKTRONIX INC Washington D.C. Depot 700 Professional Drive Suite A Gaithersburg, MD 20879 1-800-833-9200 301-926-4329 Fax	
Certificate of Traceable Calibration			
Certificate #:	417035-1-CMU200-100151-1		
PO#/Contract#:	PRODUCT WARRANTY		
Customer:	SIEMENS INFORMATION & COMMUNICATION SUITE 400 16745 W BERNARDO DR SAN DIEGO, CA 92127-1903 United States		
Contact:	ROGER GAUTIER		
Model:	CMU200		
Description:	CMU200; RADIOCOMMUNICATION PLATFORM,R&S,1100.0008.02		
Manufacturer:	ROHDE AND SCHWARZ	Cal Date:	29-Nov-2001
Serial:	100151	Due Date:	29-Nov-2002
Asset:	-	Temperature:	71 °F
Site of Calibration:	SERVICE CENTER	Humidity:	42 %
Calibration Interval Source:	TEKTRONIX RECOMMENDED	Calibration Interval:	365 DAYS
Customer's Equipment Location:	-		
Tektronix certifies that the performance of the above instrument has been verified using test equipment of known accuracy which are traceable to the U.S. National Institute of Standards and Technology (NIST). The policies and procedures at this facility are based on ANSI/NCSL Z540-1-1994 (ISO Guide 25). This certificate shall not be reproduced except in full, without the written approval of the calibration facility.			
INSTRUMENT CONDITION:			
Received:	OPERATIONAL FAILURE NO INCOMING MEASUREMENTS AVAILABLE. THE INSTRUMENT WAS FAILING ALL THE INTERNAL DIAGNOSTICS AS WELL AS THE RF LOOP TESTS.		
Returned:	IN TOLERANCE		
2	ISO 9001 Registered, KEMA certificate number 50057.01		Page 1 of 2

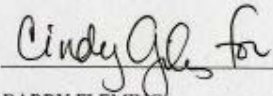
Certificate of Traceable Calibration

Certificate #: 417035-1-CMU200-100151-1

CALIBRATION PROCEDURE:ORIGINAL EQUIPMENT MANUFACTURER'S SOFTWARE - MANUFACTURER'S SPECIFICATION
PROCEDURE REVISION LEVEL ACS100 ACS#2 CMU200 VER 1.5**CALIBRATION EQUIPMENT USED:**

Model Type	Serial Number	Manufacturer	Cal Date	Due Date
SYSTEM2000	686	DATUM	30-Mar-2001	30-Mar-2009
FSIQ26	835111/002	ROHDE AND SCHWARZ	30-Nov-2000	30-Nov-2001
NRV-Z51	DE14701	ROHDE AND SCHWARZ	09-Oct-2001	09-Oct-2002
NRVD	DE14703	ROHDE AND SCHWARZ	08-Mar-2001	08-Mar-2002
NRVZ4	DE14718	ROHDE AND SCHWARZ	14-Nov-2001	14-Nov-2002
RSG	DE14725	ROHDE AND SCHWARZ	30-Apr-2001	30-Apr-2002
SMHU58	DE15239	ROHDE AND SCHWARZ	01-Oct-2001	01-Oct-2002
SMIQ06B	833720/007	ROHDE AND SCHWARZ	14-Dec-2001	14-Dec-2002
SPR101	884590/006	ROHDE AND SCHWARZ	25-Apr-2001	25-Apr-2002
UPD05	DE24931	ROHDE AND SCHWARZ	16-Aug-2001	16-Aug-2002
URE3	DE14709	ROHDE AND SCHWARZ	02-Mar-2001	02-Mar-2002
ZRC	844426/004	ROHDE AND SCHWARZ	26-Jun-2001	26-Jun-2002

Issued By:



Service Manager: BARRY FLEMING

Calibrated By:

MARCELO GUERRA

Date Issued:

29-Nov-2001

Date Printed:

24-Apr-2002