Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland
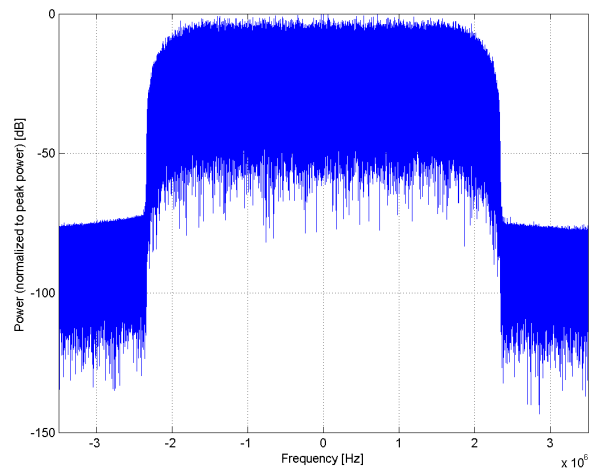
Name:	**UMTS-FDD (WCDMA)**

Group:	WCDMA
UID:	10011-CAA

PAR: [1]	**2.91 dB**
MIF: [2]	**-27.23 dB**

Standard Reference:	3GPP TS 25.141 Annex A
	FCC OET KDB 941225 D01 SAR test for 3G devices v02
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, UTRA/FDD (1920.0-1980.0 MHz, 20000)
	Band 2, UTRA/FDD (1850.0-1910.0 MHz, 20001)
	Band 3, UTRA/FDD (1710.0-1785.0 MHz, 20002)
	Band 4, UTRA/FDD (1710.0-1755.0 MHz, 20003)
	Band 5, UTRA/FDD (824.0-849.0 MHz, 20004)
	Band 6, UTRA/FDD (830.0-840.0 MHz, 20005)
	Band 7, UTRA/FDD (2500.0-2570.0 MHz, 20006)
	Band 8, UTRA/FDD (880.0-915.0 MHz, 20007)
	Band 9, UTRA/FDD (1749.9-1784.9 MHz, 20008)
	Band 10, UTRA/FDD (1710.0-1770.0 MHz, 20009)
	Band 11, UTRA/FDD (1427.9-1452.9 MHz, 20010)
	Band 12, UTRA/FDD (698.0-716.0 MHz, 20011)
	Band 13, UTRA/FDD (777.0-787.0 MHz, 20012)
	Band 14, UTRA/FDD (788.0-798.0 MHz, 20013)
	Band 19, UTRA/FDD (830.0-845.0 MHz, 20130)
	Band 20, UTRA/FDD (832.0-862.0 MHz, 20131)
	Band 21, UTRA/FDD (1447.9-1462.9 MHz, 20132)
Detailed Specification:	Dedicated Channel Type: RMC
	Bitrate: 12.2 kbps
	DPDCH: 60 kbps
	DPCCH: 15 kbps
	DPCCH/DPDCH power ratio: -5.46 dB
Bandwidth:	5.0 MHz
Integration Time:	100.0 ms

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[1]   PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "'Measurement of the Peak-to-Average Power Ratio (PAPR)'"
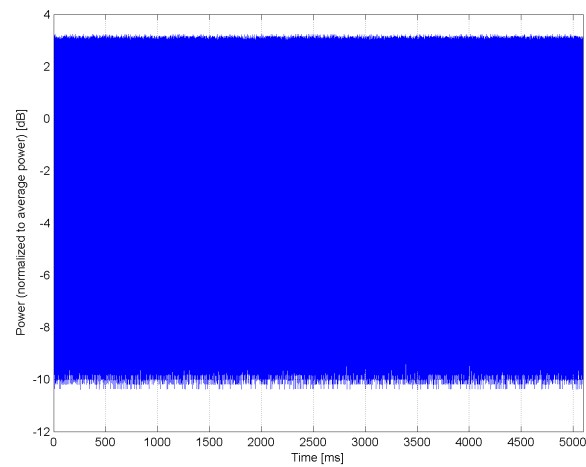[2]   Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).

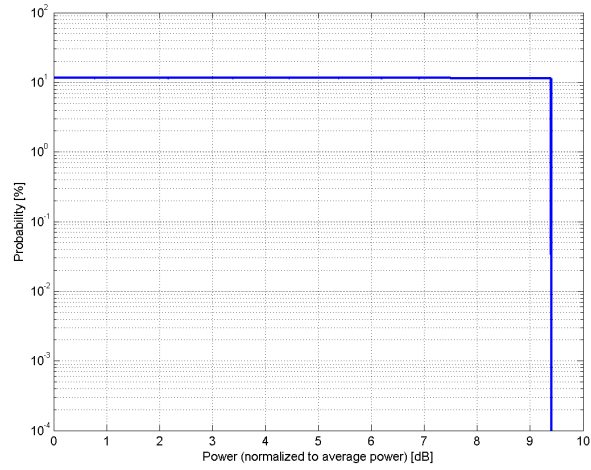**Complementary Cumulative Distribution Function (CCDF)**

Frequency Domain

Time Domain

Calibration Laboratory of
Schmid & Partner
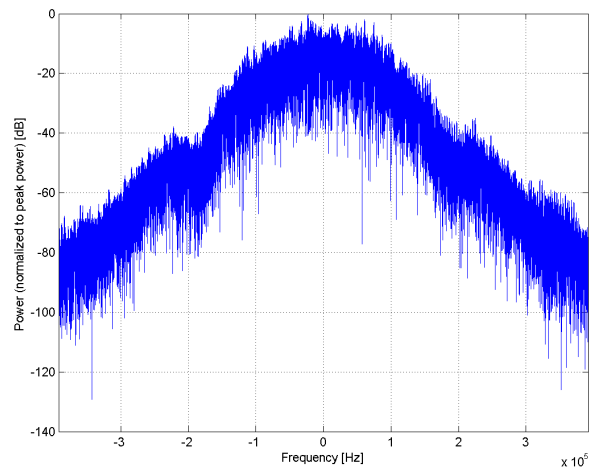## Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	**GSM-FDD (TDMA, GMSK)**

Group:	GSM
UID:	10021-DAA

PAR: [1]	**9.39 dB**
MIF: [2]	**3.63 dB**

Standard Reference:	ETSI TS 100 909 V8.9.0 (2005-01)
	FCC OET KDB 941225, D03 and D04
Category:	Periodic pulsed modulation
Modulation:	GMSK
Frequency Band:	GSM 450 (450.4-457.6 MHz, 20016)
	GSM 480 (478.8-486.0 MHz, 20017)
	GSM 710 (698.0-716.0 MHz, 20018)
	GSM 750 (747.0-763.0 MHz, 20019)
	GSM 850 (824.0-849.0 MHz, 20021)
	P-GSM 900 (890.0-915.0 MHz, 20022)
	E-GSM 900 (880.0-915.0 MHz, 20023)
	R-GSM 900 (876.0-915.0 MHz, 20024)
	DCS 1800 (1710.0-1785.0 MHz, 20026)
	PCS 1900 (1850.0-1910.0 MHz, 20027)
Detailed Specification:	Active Slot: TN0
	Data: PN9 continuous
	Frame: composed out of 8 Slots
	Multiframe: 26th (IDLE) Frame set blank
	Slottype & -timing: Normal burst for GMSK
Bandwidth:	0.4 MHz
Integration Time:	120.0 ms

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[1] PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 '"Measurement of the Peak-to-Average Power Ratio (PAPR)"'
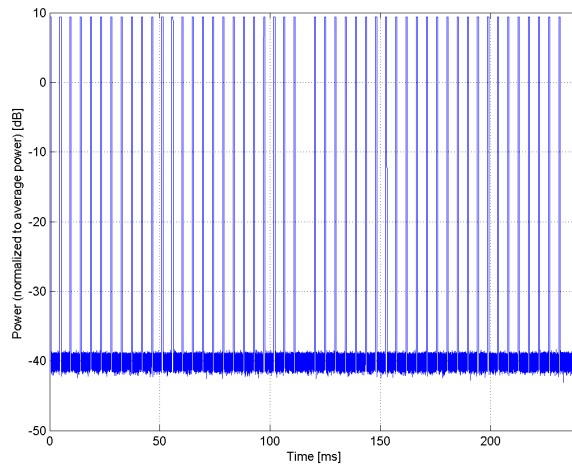[2] Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).

Complementary Cumulative Distribution Function (CCDF)

Frequency Domain

Time Domain