



Appendix E. MIF Specification documentation

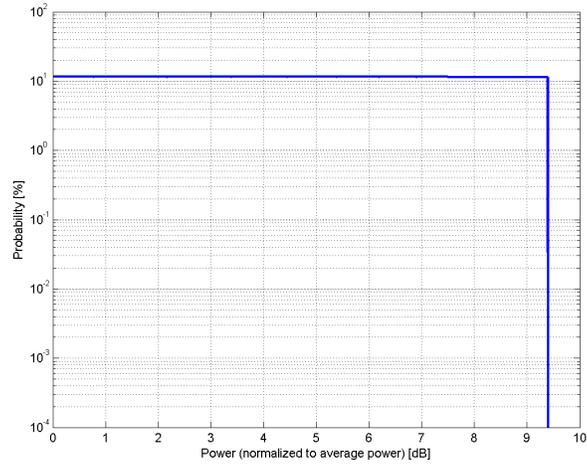
| UID | Communication System Name |
|-----------|---------------------------|
| 10021-DAA | GSM-FDD (TDMA, GMSK) |
| 10011-CAA | UMTS-FDD (WCDMA) |

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

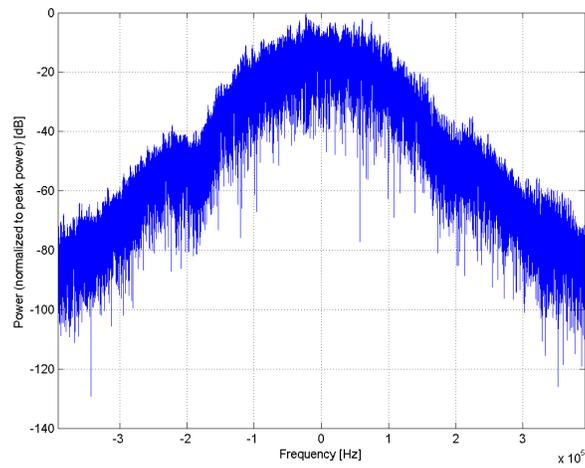
| | |
|-------------------------|--|
| Name: | GSM-FDD (TDMA, GMSK) |
| Group: | GSM |
| UID: | 10021-DAA |
| PAR: ¹ | 9.39 dB |
| MIF: ² | 3.63 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | GMSK |
| 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 |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

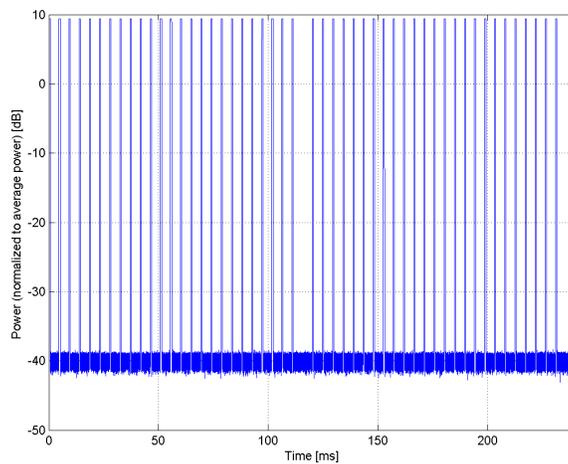
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



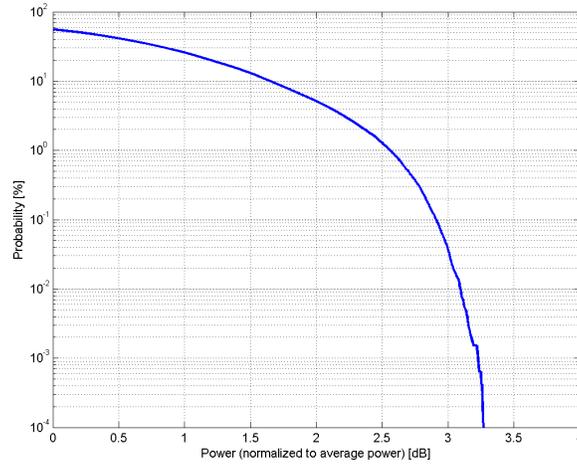
Time Domain

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

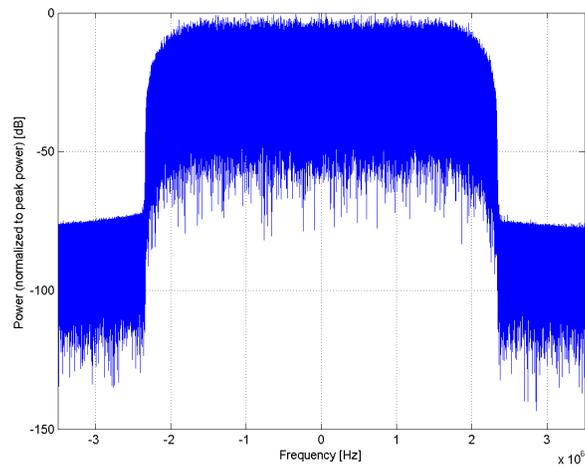
| | |
|-------------------------|---|
| Name: | UMTS-FDD (WCDMA) |
| Group: | WCDMA |
| UID: | 10011-CAA |
| PAR: ¹ | 2.91 dB |
| MIF: ² | -27.23 dB |
| Standard Reference: | 3GPP TS 25.141 Annex A FCC OET KDB 941225 D01 SAR test for 3G devices v02 |
| Category: | Random amplitude modulation |
| Modulation: | 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 |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

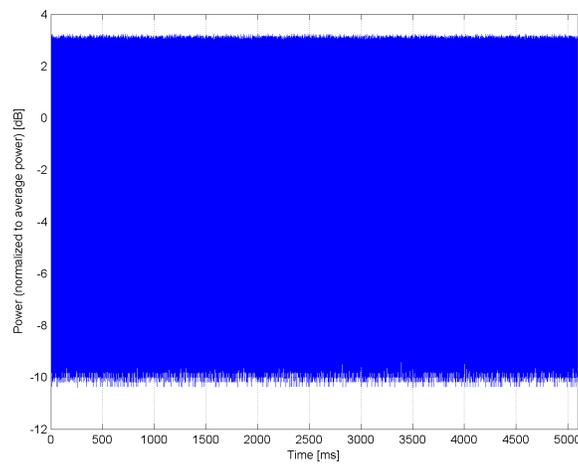
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain