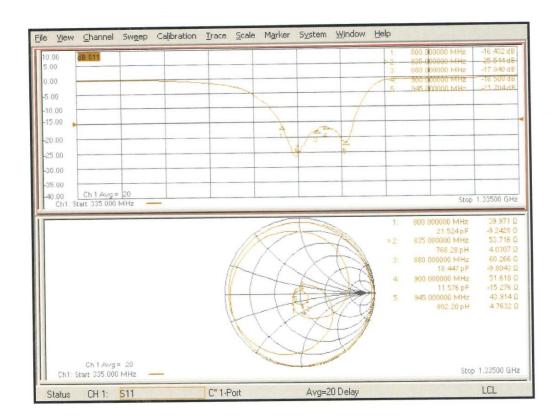


Impedance Measurement Plot





DASY5 E-field Result

Date: 19.07.2018

Test Laboratory: SPEAG Lab2

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: CD835V3 - SN: 1165

Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: RF Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

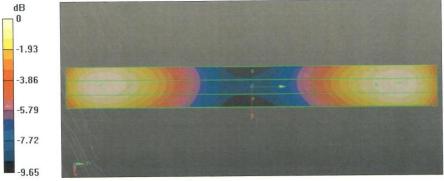
- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 835 MHz; Calibrated: 05.03.2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 17.01.2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Dipole E-Field measurement @ 835MHz/E-Scan - 835MHz d=15mm/Hearing Aid Compatibility Test (41x361x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 130.9 V/m; Power Drift = 0.02 dB Applied MIF = 0.00 dBRF audio interference level = 40.73 dBV/m Emission category: M3

MIF scaled E-field

	Grid 2 M3 40.72 dBV/m	Grid 3 M3 40.67 dBV/m
personal or necessity	Grid 5 M4 35.96 dBV/m	
	Grid 8 M3 40.73 dBV/m	Grid 9 M3 40.67 dBV/m



0 dB = 108.7 V/m = 40.72 dBV/m



Dipole 1880 MHz

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Multilateral Agreement for the recognition of calibration certification.

CITL (Auden)

CTTL (Auden) Certificate No: CD1880V3-1149_Jul18

Dbject	CD1880V3 - SN:	1149	
Calibration procedure(s)	QA CAL-20.v6 Calibration proce	dure for dipoles in air	
Calibration date:	July 19, 2018		
		onal standards, which realize the physical unit	
The measurements and the uncert	ainties with confidence pr	obability are given on the following pages and	d are part of the certificate.
All adibrations have been conduct	ad in the classed laborator	y facility: environment temperature (22 ± 3)°C	and humidity < 70%
All calibrations have been conduct	ed III the closed laborator	y facility. environment temperature (22 10) c	and namally < 70%.
Calibration Equipment used (M&TI	E critical for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-791	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
		04-Apr-18 (No. 217-02672) 04-Apr-18 (No. 217-02673)	Apr-19 Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	250.000 200.000
Power sensor NRP-Z91 Reference 20 dB Attenuator		04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682)	Apr-19
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination	SN: 103245 SN: 5058 (20k)	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683)	Apr-19 Apr-19
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18)	Apr-19 Apr-19 Apr-19
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683)	Apr-19 Apr-19 Apr-19 Mar-19
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4 Secondary Standards	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4 Secondary Standards	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065 SN: 781	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17) 17-Jan-18 (No. DAE4-781_Jan18)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18 Jan-19
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4 Secondary Standards Power meter Agilent 4419B	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065 SN: 781	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17) 17-Jan-18 (No. DAE4-781_Jan18)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18 Jan-19 Scheduled Check
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065 SN: 781	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17) 17-Jan-18 (No. DAE4-781_Jan18) Check Date (in house) 09-Oct-09 (in house check Oct-17)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18 Jan-19 Scheduled Check In house check: Oct-20
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065 SN: 781 ID # SN: GB42420191 SN: US38485102	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17) 17-Jan-18 (No. DAE4-781_Jan18) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18 Jan-19 Scheduled Check In house check: Oct-20 In house check: Oct-20
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4 Secondary Standards Power meter Agiient 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 832283/011	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17) 17-Jan-18 (No. DAE4-781_Jan18) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18 Jan-19 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 832283/011	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17) 17-Jan-18 (No. DAE4-781_Jan18) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17) 27-Aug-12 (in house check Oct-17)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18 Jan-19 Scheduled Check In house check: Oct-20
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 Probe H3DV6 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 4013 SN: 6065 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 832283/011 SN: US41080477	04-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 05-Mar-18 (No. EF3-4013_Mar18) 30-Dec-17 (No. H3-6065_Dec17) 17-Jan-18 (No. DAE4-781_Jan18) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17) 27-Aug-12 (in house check Oct-17) 31-Mar-14 (in house check Oct-17)	Apr-19 Apr-19 Apr-19 Mar-19 Dec-18 Jan-19 Scheduled Check In house check: Oct-20

Certificate No: CD1880V3-1149_Jul18

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Accreditation No.: SCS 0108

References

[1] ANSI-C63.19-2011 American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna
 (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes.
 In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a
 distance of 15 mm above the top metal edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All
 figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector
 is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a
 directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- Feed Point Impedance and Return Loss: These parameters are measured using a HP 8753E Vector Network Analyzer. The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- E-field distribution: E field is measured in the x-y-plane with an isotropic ER3D-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: CD1880V3-1149_Jul18 Page 2 of 5



Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.1
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	1880 MHz ± 1 MHz	
Input power drift	< 0.05 dB	

Maximum Field values at 1880 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	89.8 V/m = 39.06 dBV/m
Maximum measured above low end	100 mW input power	89.3 V/m = 39.02 dBV/m
Averaged maximum above arm	100 mW input power	89.5 V/m ± 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Frequency	Return Loss	Impedance
1730 MHz	23.9 dB	53.9 Ω + 5.4 jΩ
1880 MHz	22.5 dB	54.7 Ω + 6.3 jΩ
1900 MHz	23.4 dB	55.6 Ω + 4.5 jΩ
1950 MHz	30.3 dB	52.9 Ω - 1.3 jΩ
2000 MHz	21.3 dB	44.2 Ω + 5.7 jΩ

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

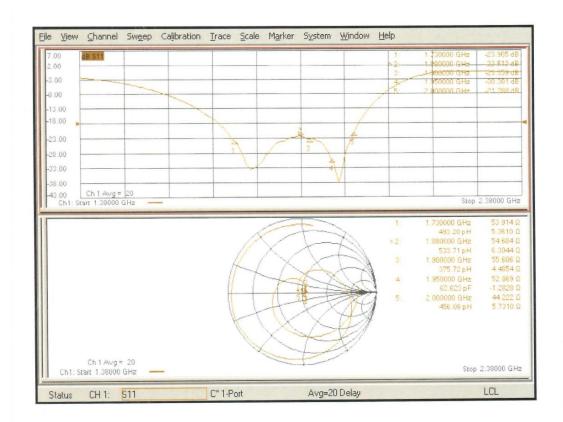
Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

Certificate No: CD1880V3-1149_Jul18



Impedance Measurement Plot





DASY5 E-field Result

Date: 19.07.2018

Test Laboratory: SPEAG Lab2

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: CD1880V3 - SN: 1149

Communication System: UID 0 - CW ; Frequency: 1880 MHz Medium parameters used: $\sigma=0$ S/m, $\epsilon_r=1$; $\rho=0$ kg/m 3

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 1880 MHz; Calibrated: 05.03.2018
- · Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 17.01.2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Dipole E-Field measurement @ 1880MHz/E-Scan - 1880MHz d=15mm/Hearing Aid Compatibility Test (41x181x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 160.1 V/m; Power Drift = -0.04 dB

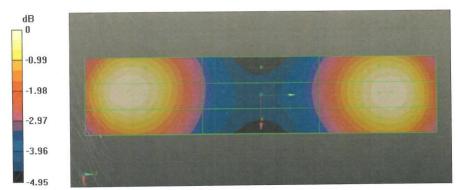
Applied MIF = 0.00 dB

RF audio interference level = 39.06 dBV/m

Emission category: M2

MIF scaled E-field

Grid 1 M2 38.67 dBV/m		
The state of the s	Grid 5 M2 36.15 dBV/m	Control of the Contro
Grid 7 M2 38.79 dBV/m	Grid 8 M2 39.02 dBV/m	



0 dB = 89.78 V/m = 39.06 dBV/m



ANNEX E UID Specification

Calibration Laboratory of

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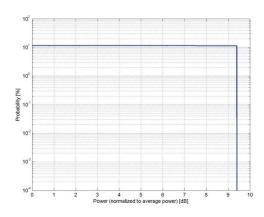
Name: GSM-FDD (TDMA, GMSK) GSM Group: 10021-DAC 9.39 dB 3.63 dB ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 Periodic pulsed modulation Standard Reference: Category: GMSK GSM 450 (450.4 - 457.6 MHz) Modulation: Frequency Band: GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) Active Slot: TN0 Detailed Specification: Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for GMSK 0.2 MHz Bandwidth: Integration Time: 120.0 ms

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

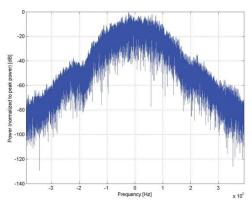
Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



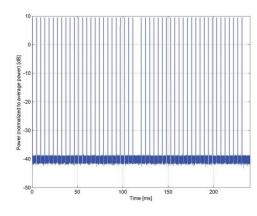
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Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain



Schmid & Partner

Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: UMTS-FDD (WCDMA)

Group: WCDMA UID: 10011-CAB

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 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)
Band 22, UTRA/FDD (3410.0-3490.0 MHz, 20217)
Band 25, UTRA/FDD (1850.0-1915.0 MHz, 20218)

Band 26, UTRA/FDD (814.0-849.0 MHz, 20219)

Detailed Specification: Dedicated Channel Type: RMC

Bitrate: 12.2 kbps DPDCH: 60 kbps DPCCH: 15 kbps

DPCCH/DPDCH power ratio: -5.46 dB

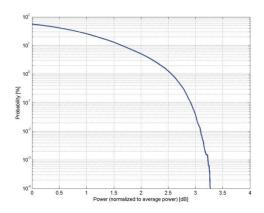
Bandwidth: 5.0 MHz Integration Time: 100.0 ms

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

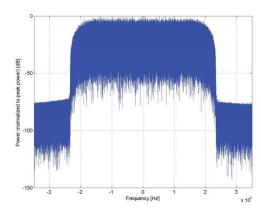
Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



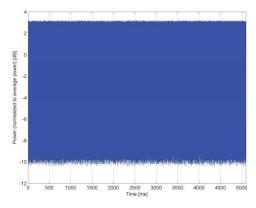
Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain



Schmid & Partner

Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: CDMA2000, RC1, SO3, 1/8th Rate 25 fr.

Group: CDMA2000 UID: 10295-AAB

PAR: 1 12.49 dB MIF: 2 3.26 dB

Standard Reference: 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3

FCC OET KDB 941225 D01 SAR test for 3G devices (v02)

Category: Random amplitude modulation

Modulation: 64-ary orthogonal

Frequency Band: Band Class 0 (815.0-849.0 MHz, 20220)

Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048)

Band Class 10 (806.0-901.0 MHz, 20049)
Band Class 11 (410.0-462.5 MHz, 20050)
Band Class 12 (870.0-876.0 MHz, 20051)
Band Class 13 (2500.0-2570.0 MHz, 20179)
Band Class 14 (1850.0-1915.0 MHz, 20180)
Band Class 15 (1710.0-1755.0 MHz, 20181)
Band Class 16 (2502.0-2568.0 MHz, 20182)
Band Class 18 (787.0-799.0 MHz, 20184)
Band Class 19 (698.0-716.0 MHz, 20185)

Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187)

Detailed Specification: Radio Configuration 1 (RC1)

Service Option 3 (SO3)

Speech codec: 8k EVRC (Enhanced Voice Rate Codec)

1/8th frame rate

Bandwidth: 1.2 MHz Integration Time: 500.0 ms

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

UID Specification Sheet

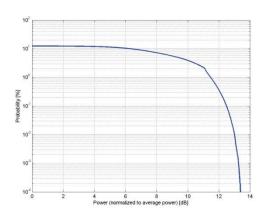
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16.01.2014

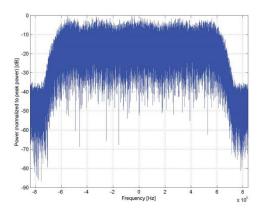
Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



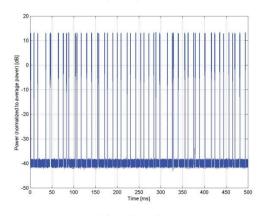
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Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain