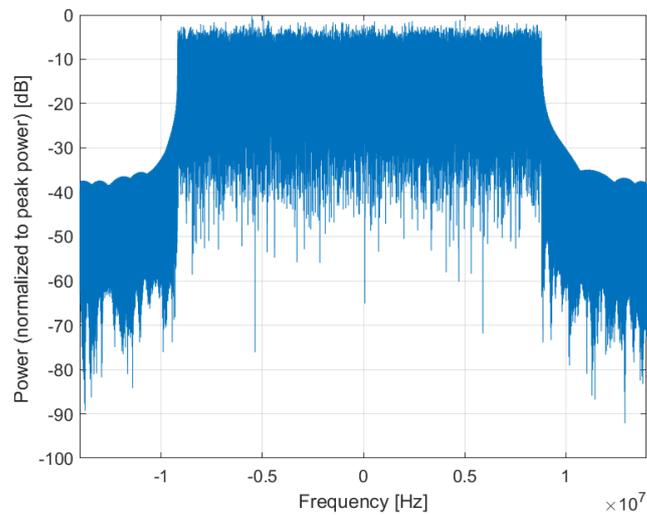
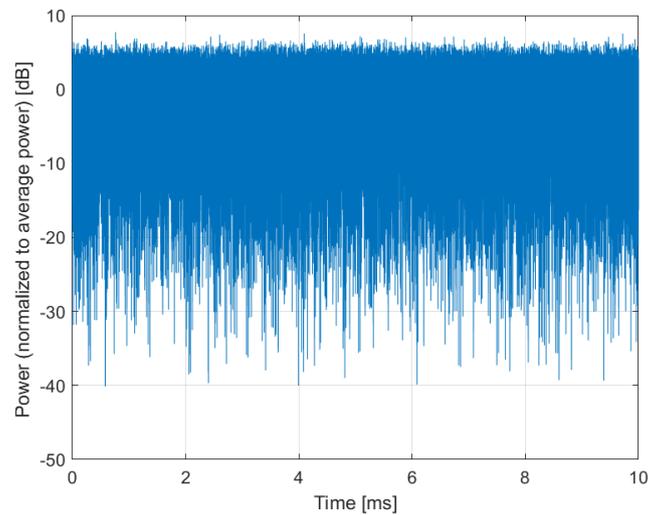


**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD  
UID: 10922-AAB

PAR: <sup>1</sup> **5.82 dB**  
MIF: <sup>2</sup> **-20.26 dB**

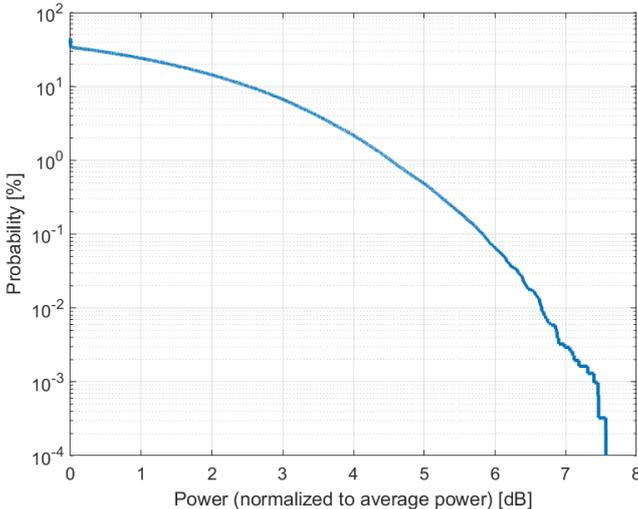
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n38 (2570 - 2620 MHz)  
Band n39 (1880 - 1920 MHz)  
Band n40 (2300 - 2400 MHz)  
Band n77 (3300 - 4200 MHz)  
Band n78 (3300 - 3800 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 30 kHz  
Number RBs: 64  
Slot Format Index: 1  
Data Type: PN9

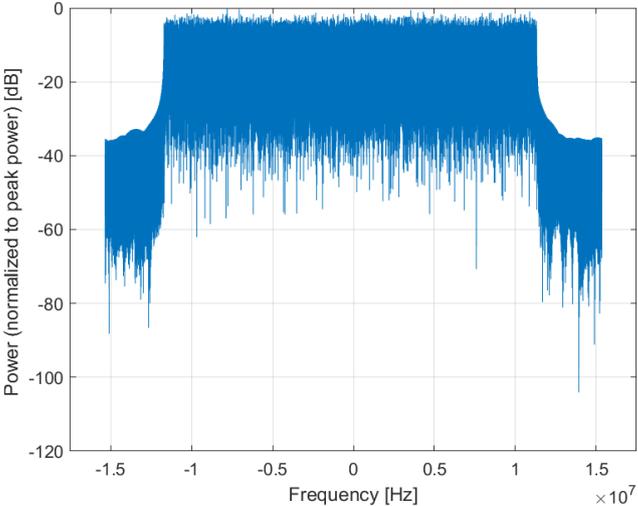
Bandwidth: 25.0 MHz  
Integration Time: 10.0 ms

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

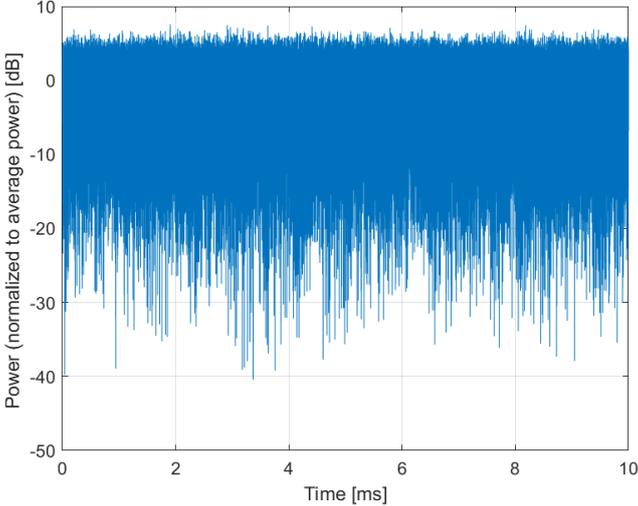
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD  
UID: 10923-AAB

PAR: <sup>1</sup> **5.84 dB**  
MIF: <sup>2</sup> **-20.39 dB**

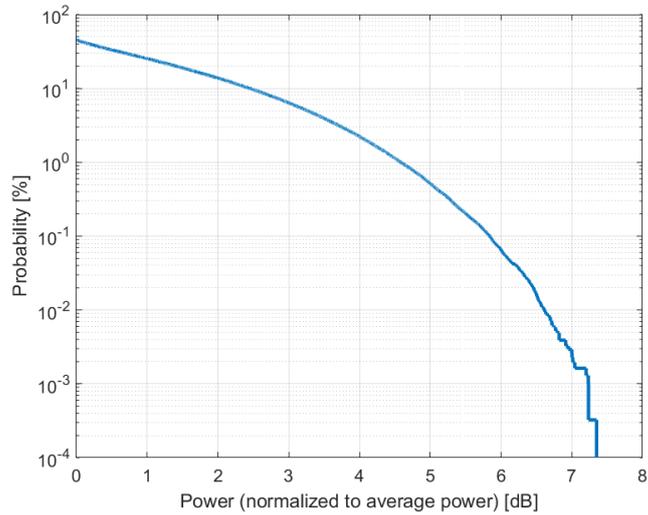
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n38 (2570 - 2620 MHz)  
Band n39 (1880 - 1920 MHz)  
Band n40 (2300 - 2400 MHz)  
Band n41 (2496 - 2690 MHz)  
Band n50 (1432 - 1517 MHz)  
Band n77 (3300 - 4200 MHz)  
Band n78 (3300 - 3800 MHz)  
Band n90 (2496 - 2690 MHz)  
Band n47 (5855 - 5925 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 30 kHz  
Number RBs: 75  
Slot Format Index: 1  
Data Type: PN9

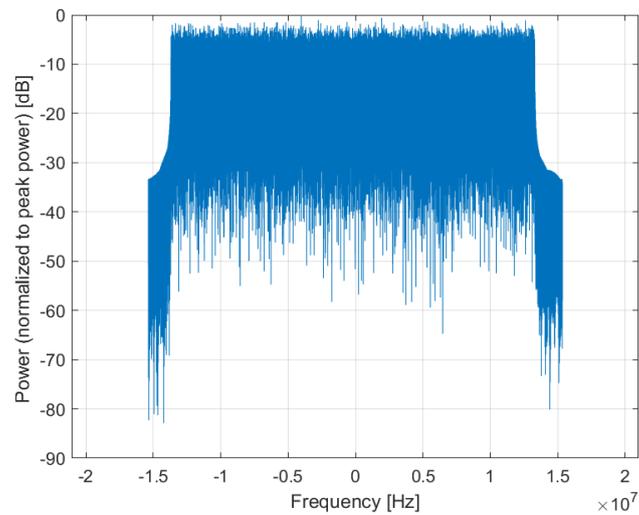
Bandwidth: 30.0 MHz  
Integration Time: 10.0 ms

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

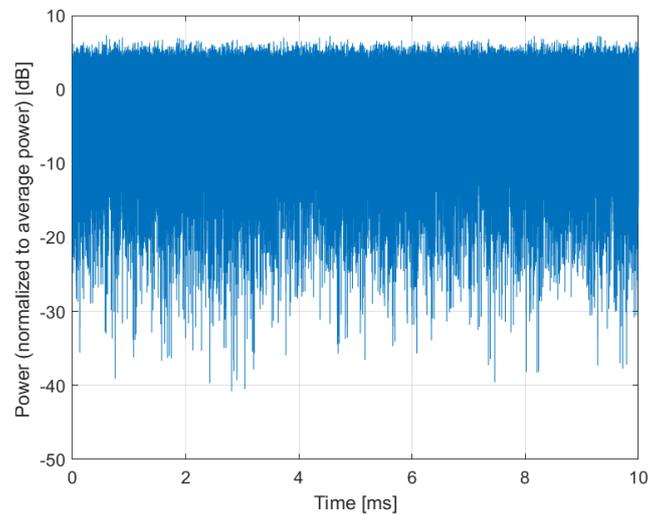
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD  
UID: 10924-AAB

PAR: <sup>1</sup> **5.84 dB**  
MIF: <sup>2</sup> **-20.45 dB**

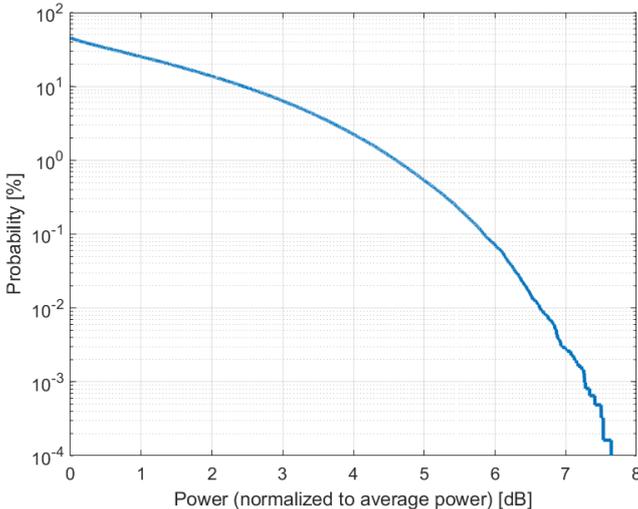
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n38 (2570 - 2620 MHz)  
Band n39 (1880 - 1920 MHz)  
Band n40 (2300 - 2400 MHz)  
Band n41 (2496 - 2690 MHz)  
Band n48 (3550 - 3700 MHz)  
Band n50 (1432 - 1517 MHz)  
Band n77 (3300 - 4200 MHz)  
Band n78 (3300 - 3800 MHz)  
Band n79 (4400 - 5000 MHz)  
Band n90 (2496 - 2690 MHz)  
Band n47 (5855 - 5925 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 30 kHz  
Number RBs: 100  
Slot Format Index: 1  
Data Type: PN9

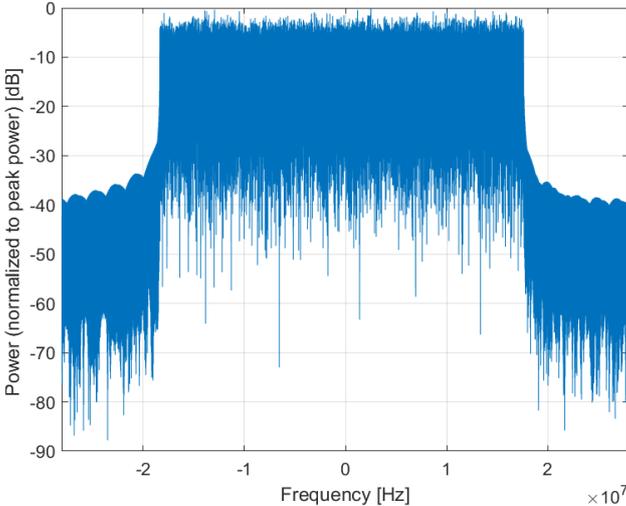
Bandwidth: 40.0 MHz  
Integration Time: 10.0 ms

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

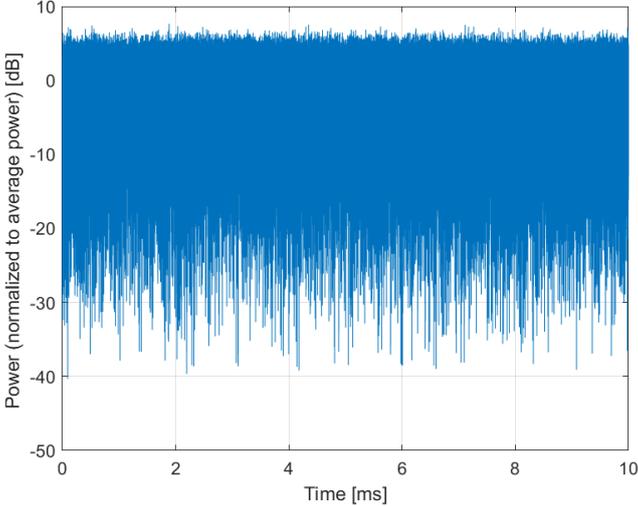
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD  
UID: 10925-AAB

PAR: <sup>1</sup> **5.95 dB**  
MIF: <sup>2</sup> **-20.23 dB**

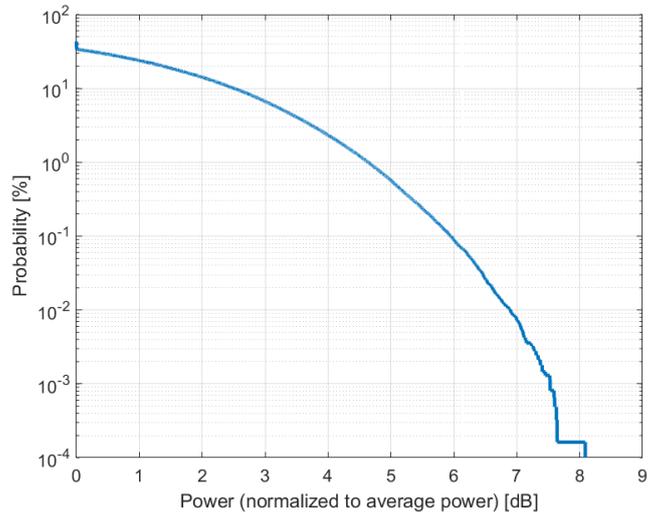
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n40 (2300 - 2400 MHz)  
Band n41 (2496 - 2690 MHz)  
Band n48 (3550 - 3700 MHz)  
Band n50 (1432 - 1517 MHz)  
Band n77 (3300 - 4200 MHz)  
Band n78 (3300 - 3800 MHz)  
Band n79 (4400 - 5000 MHz)  
Band n90 (2496 - 2690 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 30 kHz  
Number RBs: 128  
Slot Format Index: 1  
Data Type: PN9

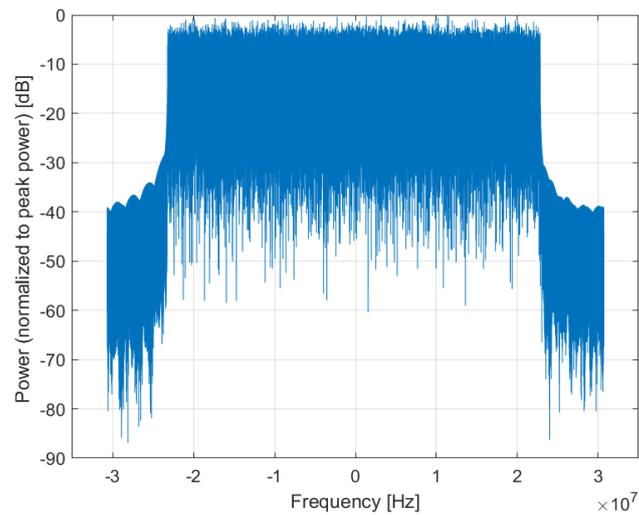
Bandwidth: 50.0 MHz  
Integration Time: 10.0 ms

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

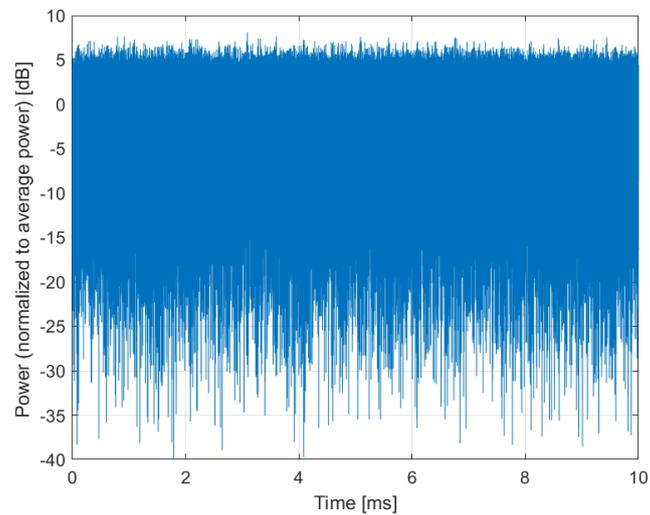
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD  
UID: 10926-AAB

PAR: <sup>1</sup> **5.84 dB**  
MIF: <sup>2</sup> **-20.48 dB**

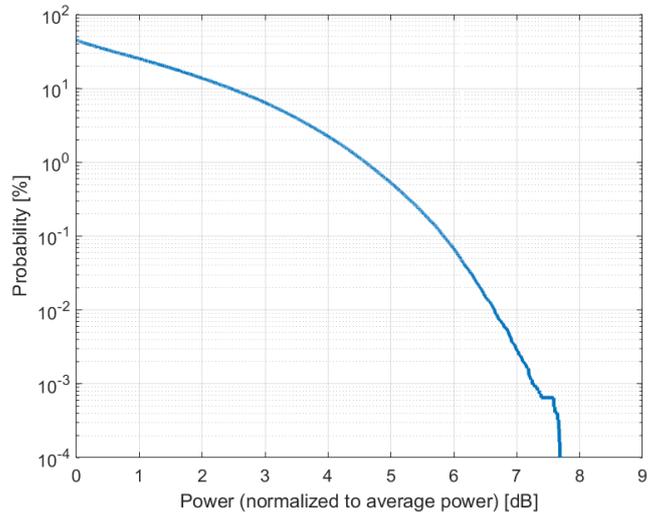
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n40 (2300 - 2400 MHz)  
Band n41 (2496 - 2690 MHz)  
Band n48 (3550 - 3700 MHz)  
Band n50 (1432 - 1517 MHz)  
Band n77 (3300 - 4200 MHz)  
Band n78 (3300 - 3800 MHz)  
Band n79 (4400 - 5000 MHz)  
Band n90 (2496 - 2690 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 30 kHz  
Number RBs: 162  
Slot Format Index: 1  
Data Type: PN9

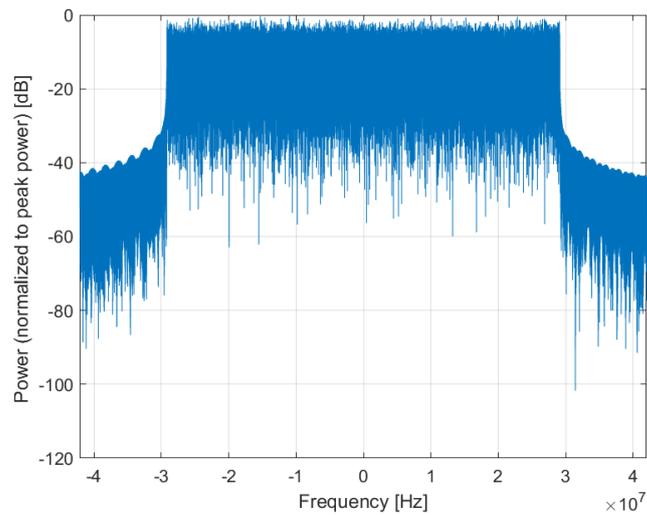
Bandwidth: 60.0 MHz  
Integration Time: 10.0 ms

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

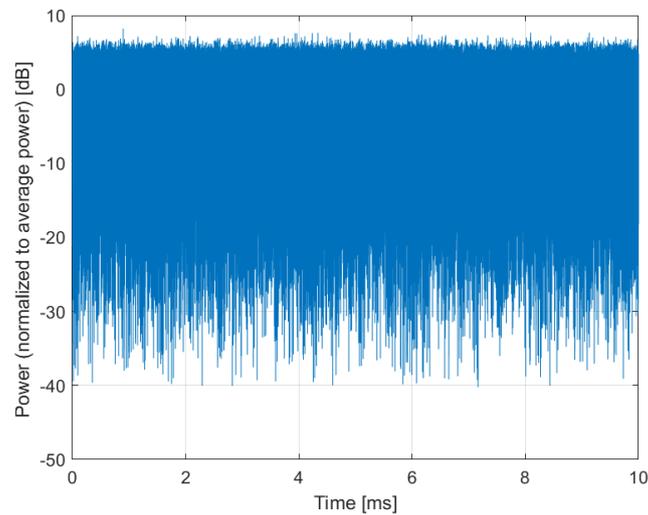
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD  
UID: 10927-AAB

PAR: <sup>1</sup> **5.94 dB**  
MIF: <sup>2</sup> **-20.32 dB**

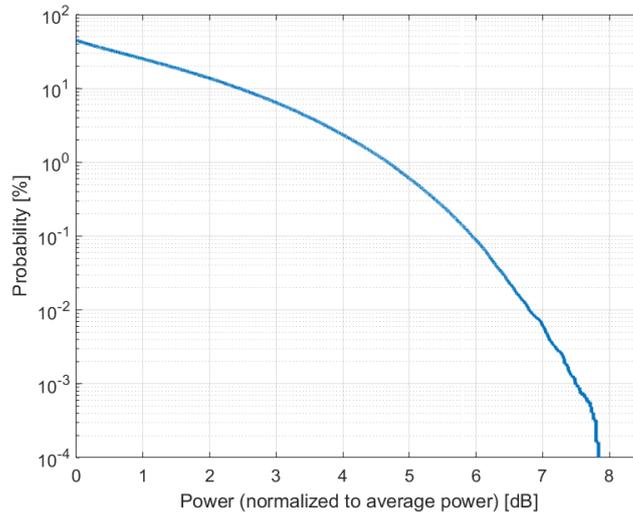
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n40 (2300 - 2400 MHz)  
Band n41 (2496 - 2690 MHz)  
Band n48 (3550 - 3700 MHz)  
Band n50 (1432 - 1517 MHz)  
Band n77 (3300 - 4200 MHz)  
Band n78 (3300 - 3800 MHz)  
Band n79 (4400 - 5000 MHz)  
Band n90 (2496 - 2690 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 30 kHz  
Number RBs: 216  
Slot Format Index: 1  
Data Type: PN9

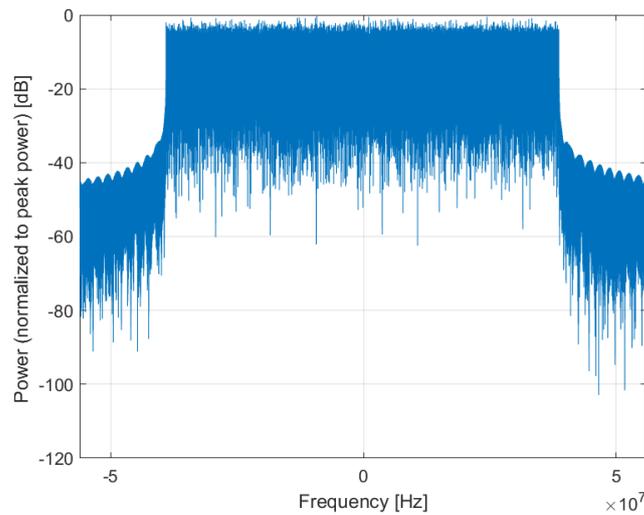
Bandwidth: 80.0 MHz  
Integration Time: 10.0 ms

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

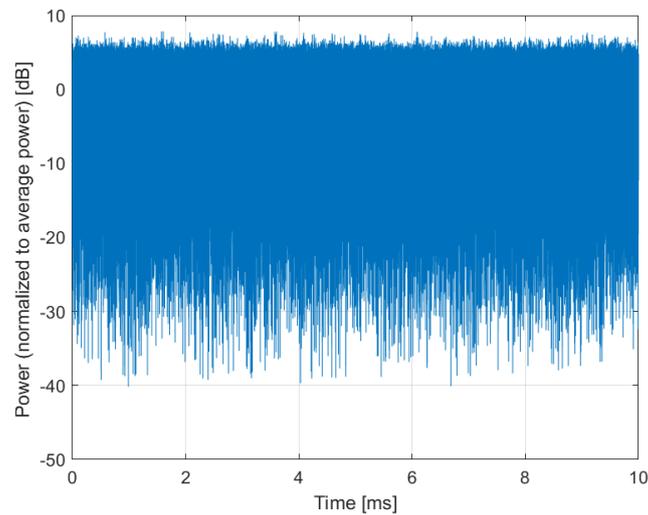
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



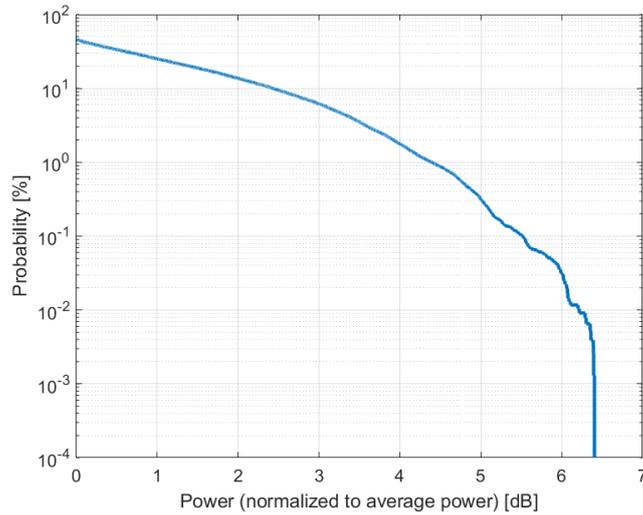
**Time Domain**

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

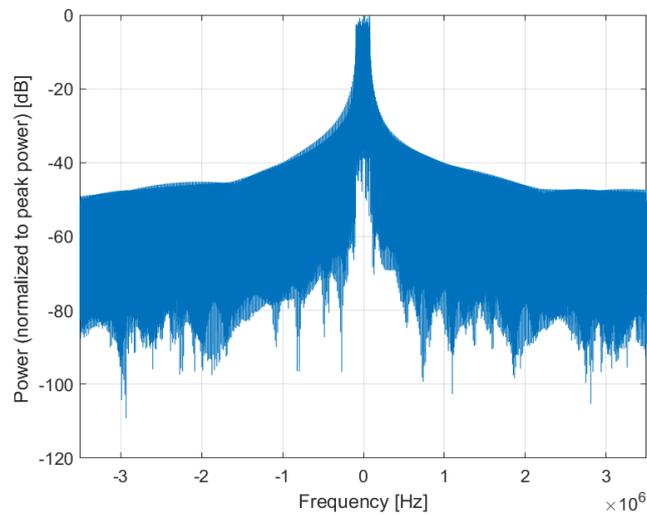
Name:	<b>5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10928-AAB
PAR: <sup>1</sup>	<b>5.52 dB</b>
MIF: <sup>2</sup>	<b>-15.06 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

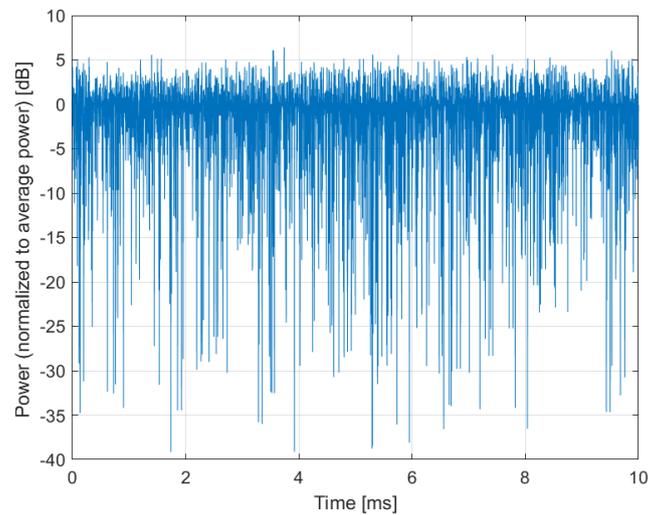
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



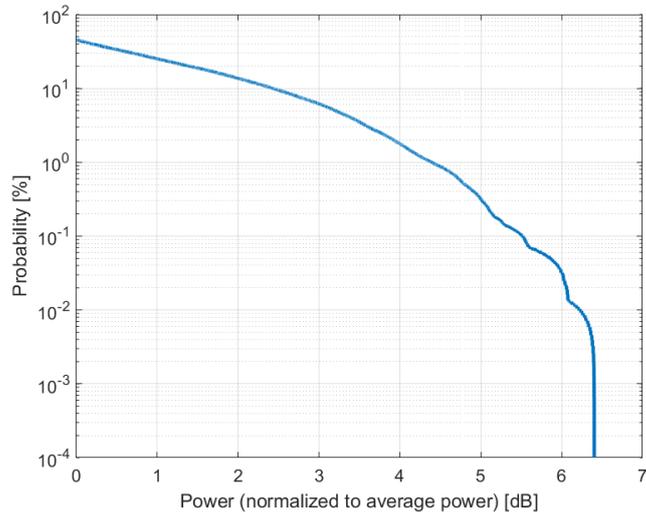
**Time Domain**

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

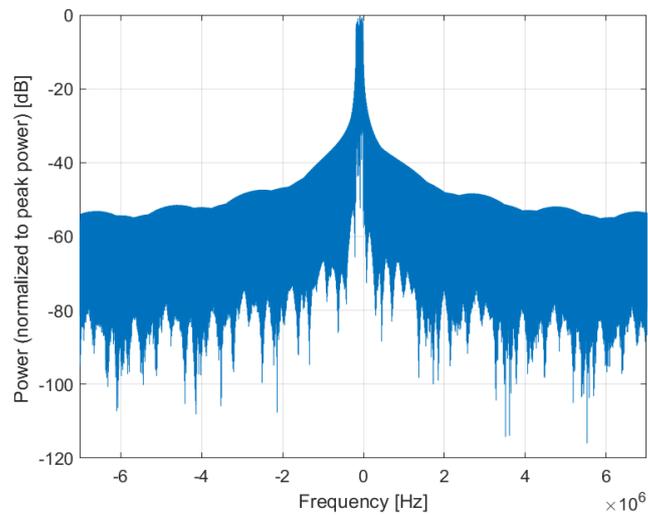
Name:	<b>5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10929-AAB
PAR: <sup>1</sup>	<b>5.52 dB</b>
MIF: <sup>2</sup>	<b>-15.06 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

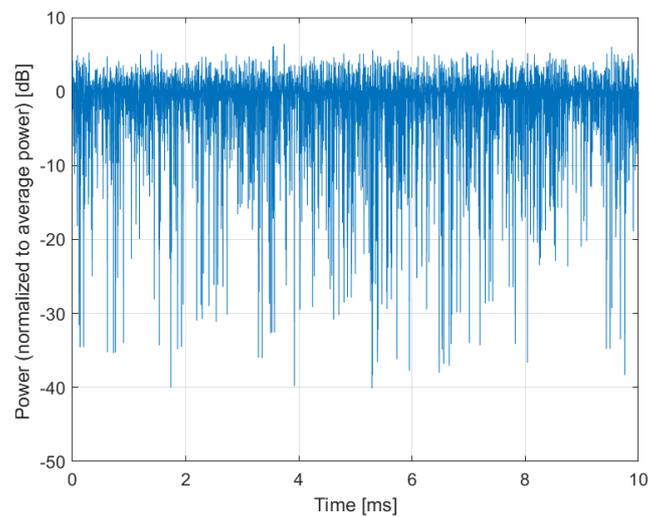
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



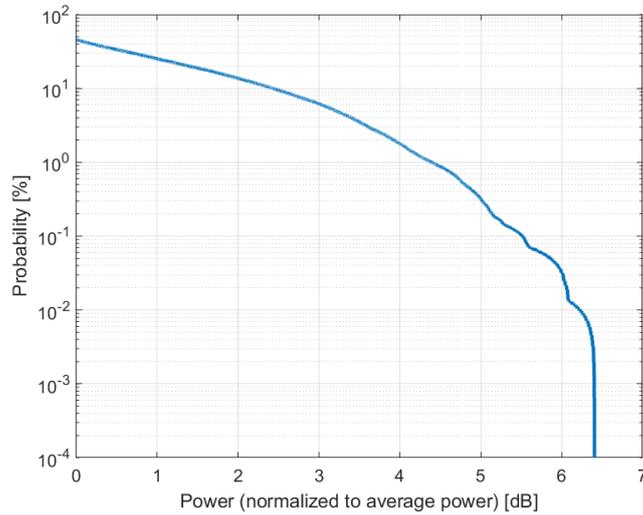
**Time Domain**

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

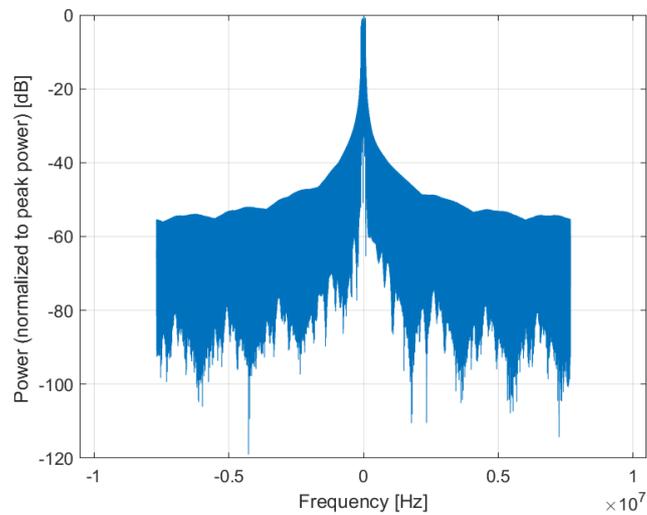
Name:	<b>5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10930-AAB
PAR: <sup>1</sup>	<b>5.52 dB</b>
MIF: <sup>2</sup>	<b>-15.06 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

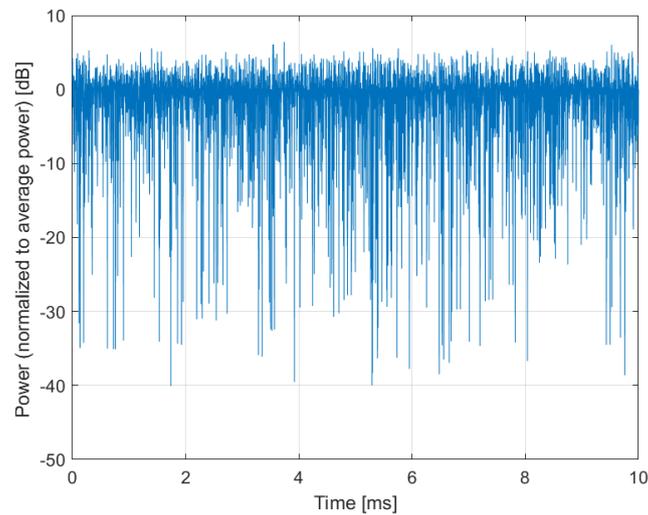
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10931-AAB

PAR: <sup>1</sup> **5.51 dB**  
MIF: <sup>2</sup> **-15.06 dB**

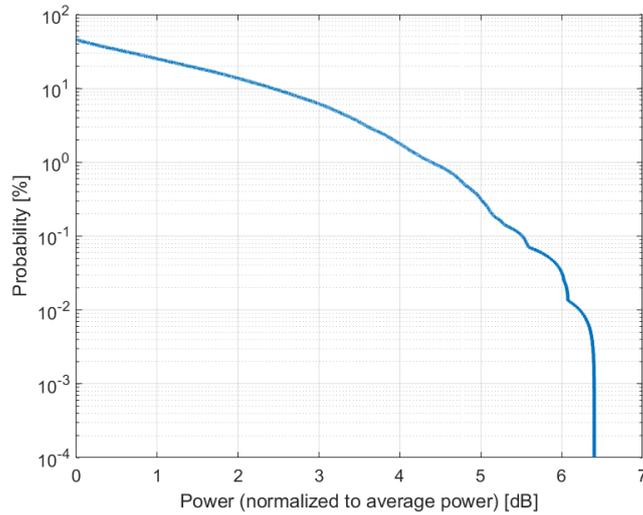
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n2 (1850 - 1910 MHz)  
Band n5 (824 - 849 MHz)  
Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n71 (663 - 698 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n8 (880 - 915 MHz)  
Band n20 (832 - 862 MHz)  
Band n26 (814 - 849 MHz)  
Band n28 (703 - 748 MHz)  
Band n65 (1920 - 2010 MHz)  
Band n74 (1427 - 1470 MHz)  
Band n92 (832 - 862 MHz)  
Band n94 (880 - 915 MHz)  
Band n80 (1710 - 1785 MHz)  
Band n81 (880 - 915 MHz)  
Band n82 (832 - 862 MHz)  
Band n83 (703 - 748 MHz)  
Band n84 (1920 - 1980 MHz)  
Band n86 (1710 - 1780 MHz)  
Band n89 (824 - 849 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

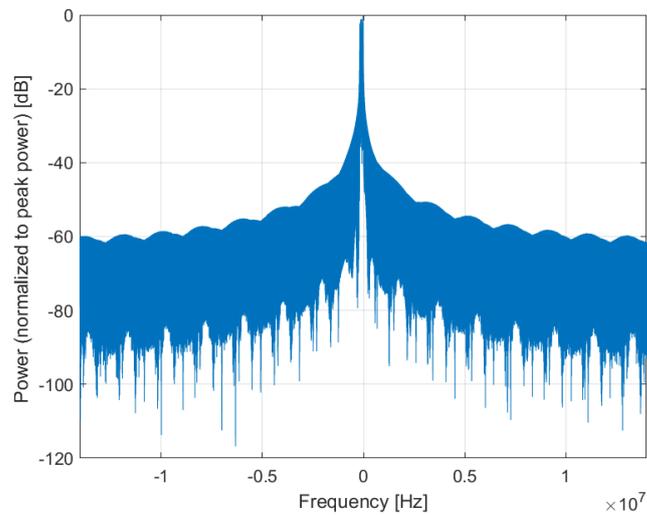
Bandwidth: 20.0 MHz  
Integration Time: 10.0 ms

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

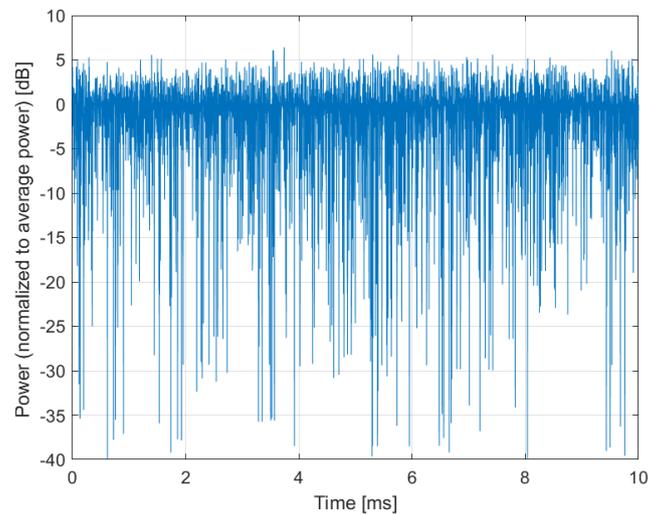
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10932-AAB

PAR: <sup>1</sup> **5.51 dB**  
MIF: <sup>2</sup> **-15.06 dB**

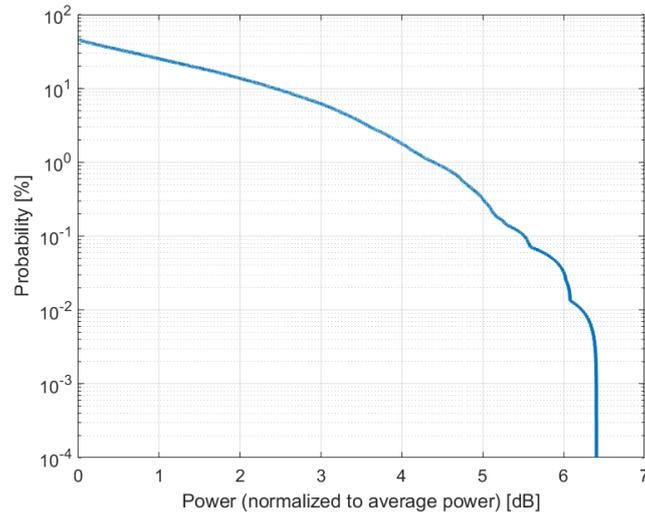
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n80 (1710 - 1785 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

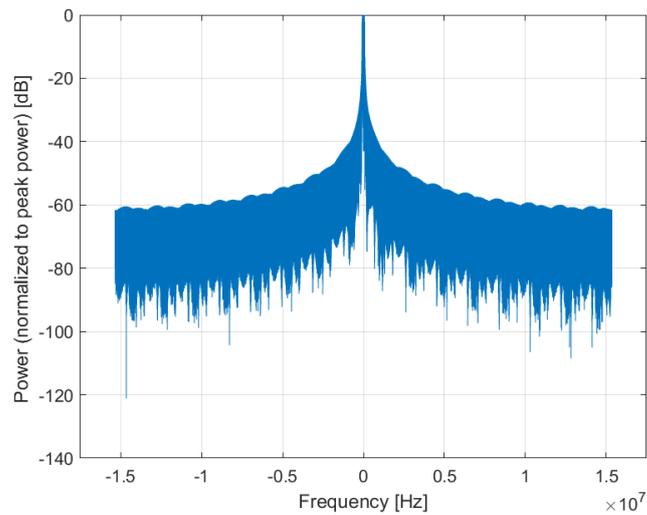
Bandwidth: 25.0 MHz  
Integration Time: 10.0 ms

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

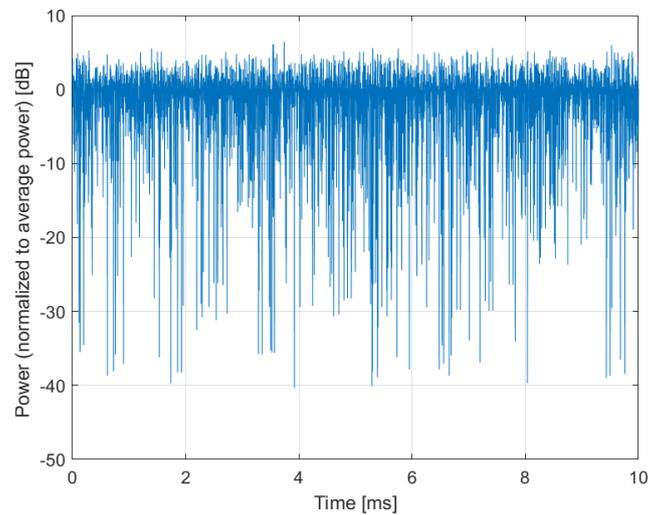
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10933-AAB

PAR: <sup>1</sup> **5.51 dB**  
MIF: <sup>2</sup> **-15.06 dB**

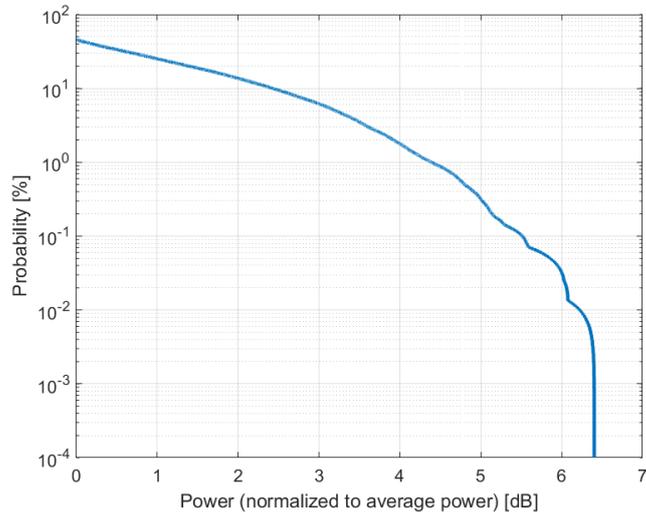
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n28 (703 - 748 MHz)  
Band n80 (1710 - 1785 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

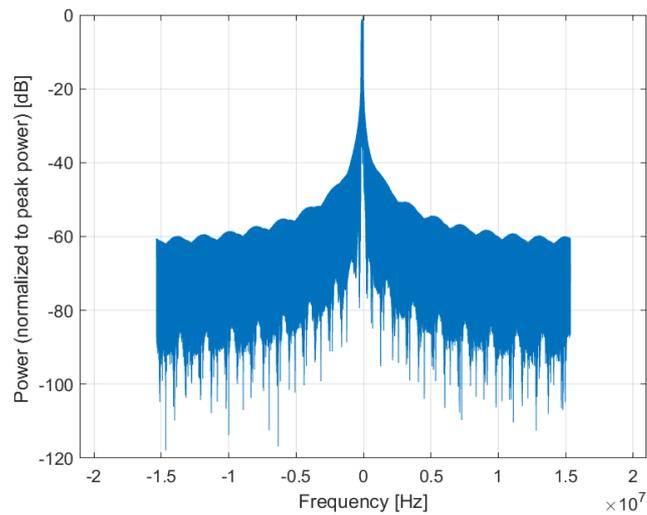
Bandwidth: 30.0 MHz  
Integration Time: 10.0 ms

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

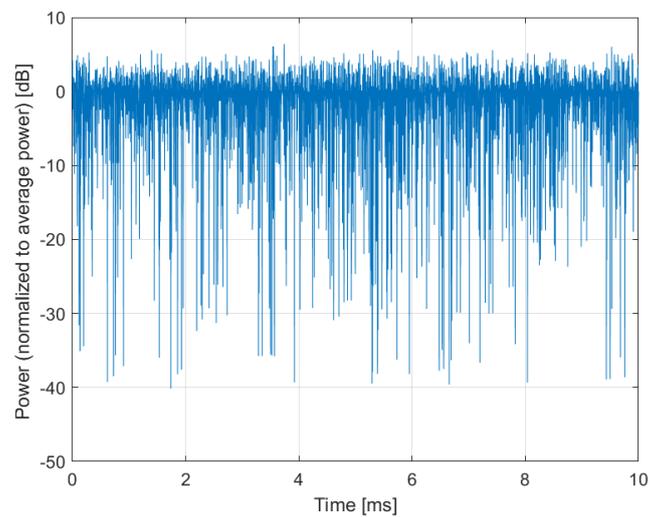
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10934-AAB

PAR: <sup>1</sup> **5.51 dB**  
MIF: <sup>2</sup> **-15.07 dB**

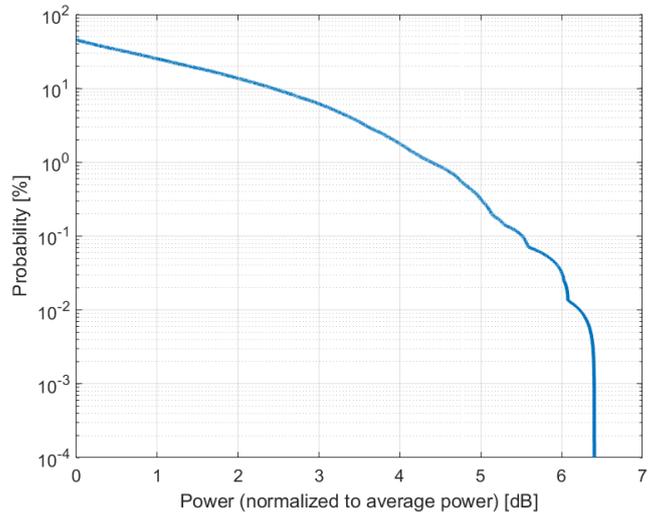
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n86 (1710 - 1780 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

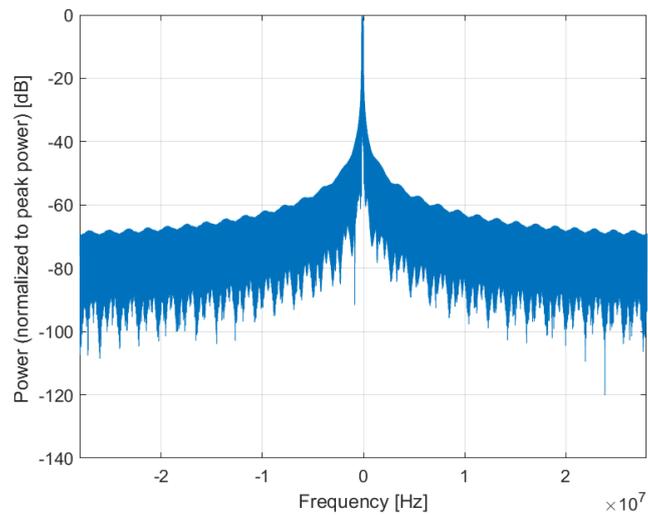
Bandwidth: 40.0 MHz  
Integration Time: 10.0 ms

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

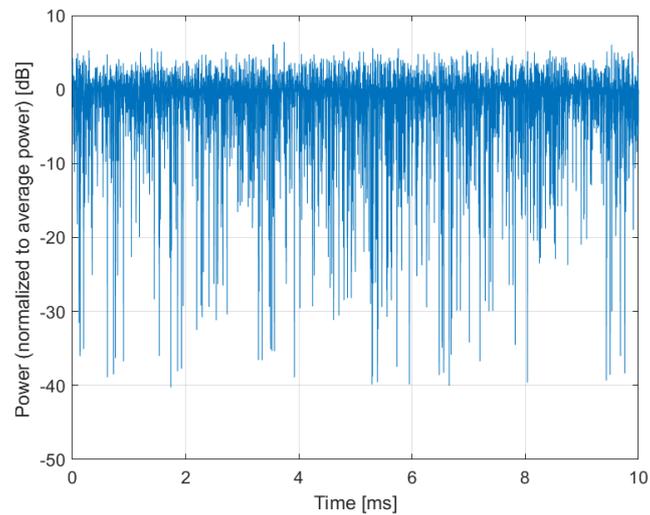
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10935-AAB

PAR: <sup>1</sup> **5.51 dB**  
MIF: <sup>2</sup> **-15.07 dB**

Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n1 (1920 - 1980 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n65 (1920 - 2010 MHz)  
Validation band (0.0 - 6000.0 MHz)

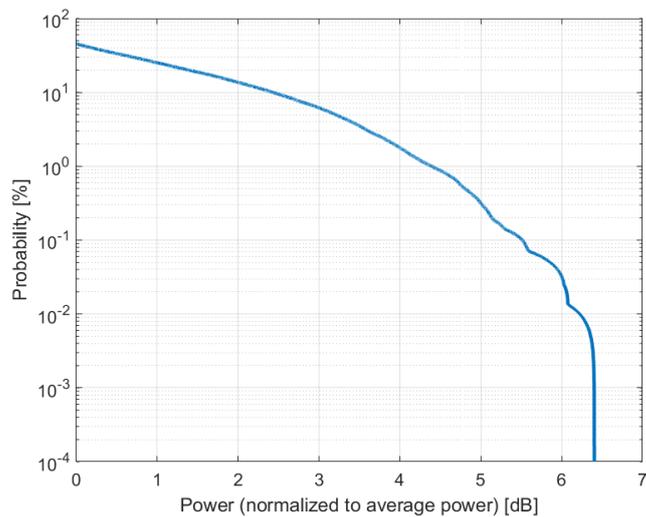
Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

Bandwidth: 50.0 MHz  
Integration Time: 10.0 ms

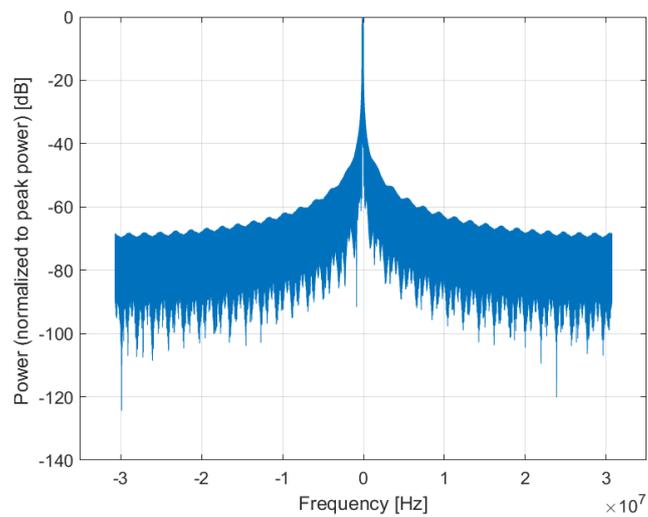
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<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

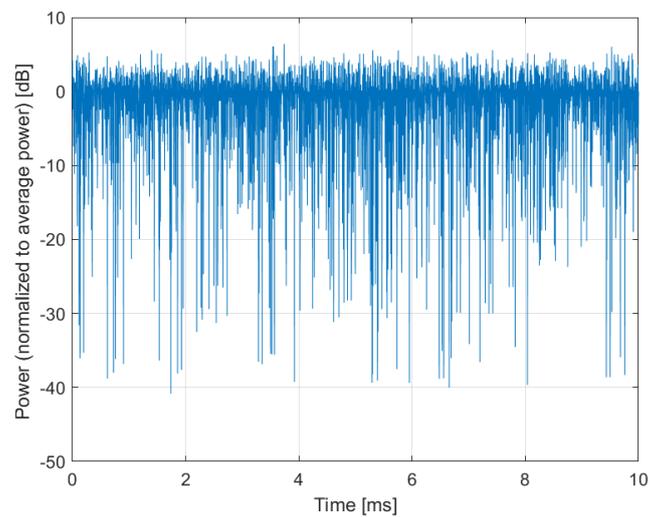
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



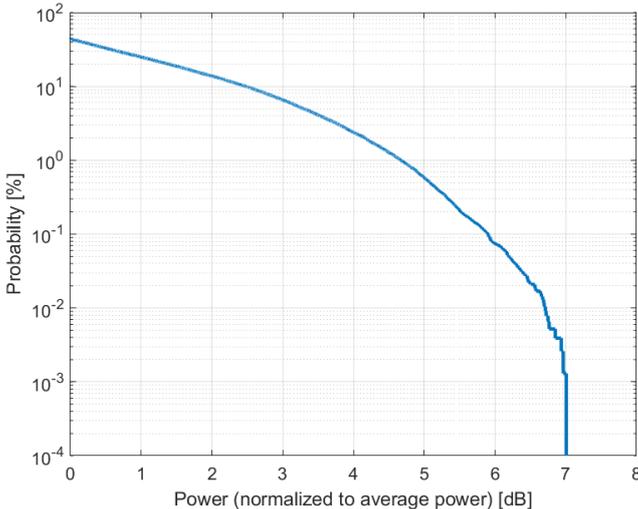
### Time Domain

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

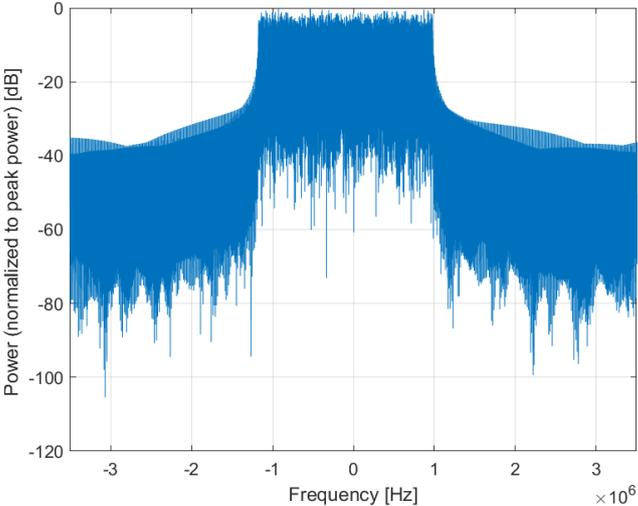
Name:	<b>5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10936-AAB
PAR: <sup>1</sup>	<b>5.90 dB</b>
MIF: <sup>2</sup>	<b>-17.91 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

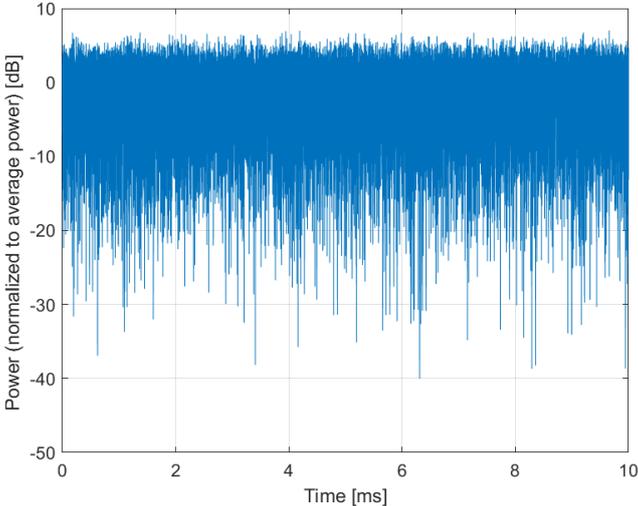
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



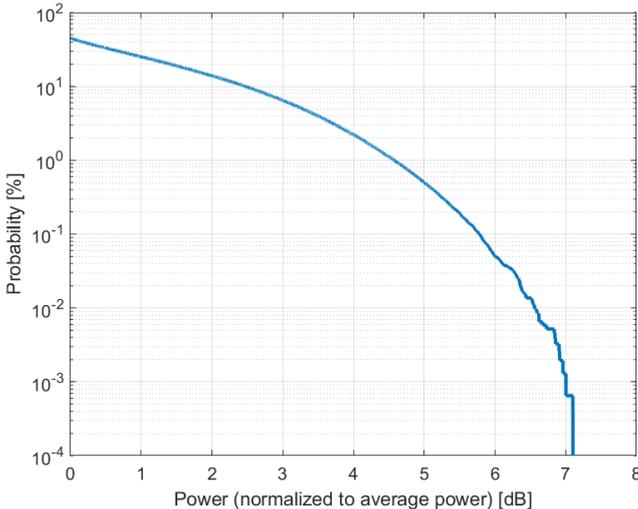
**Time Domain**

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

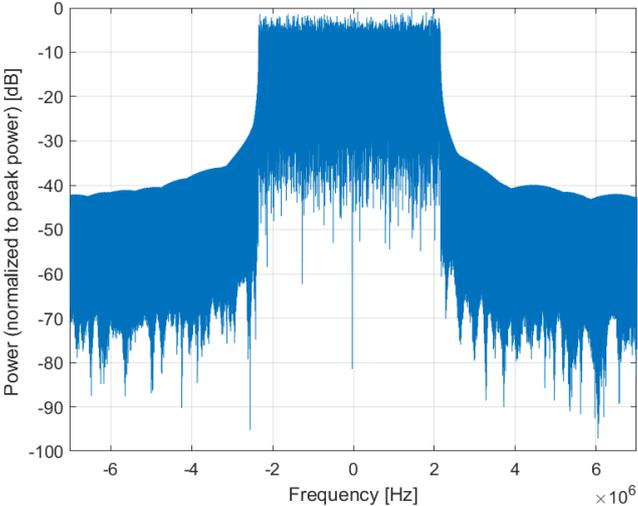
Name:	<b>5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10937-AAB
PAR: <sup>1</sup>	<b>5.77 dB</b>
MIF: <sup>2</sup>	<b>-18.38 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

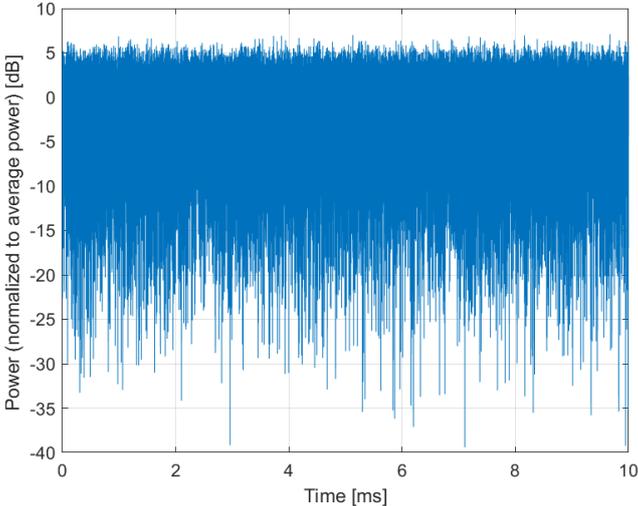
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



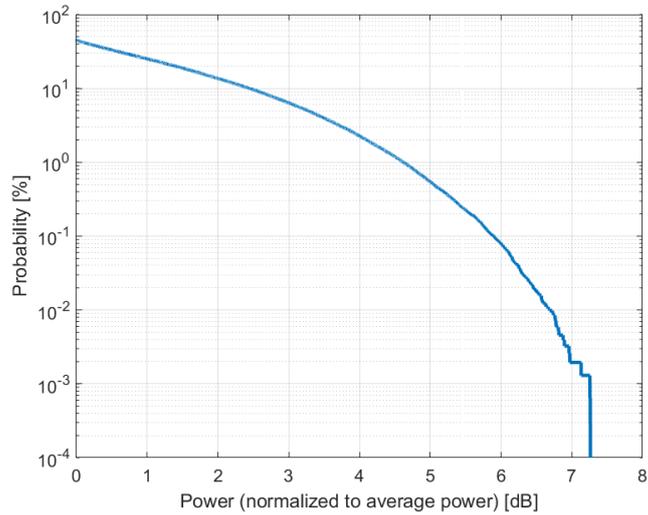
**Time Domain**

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

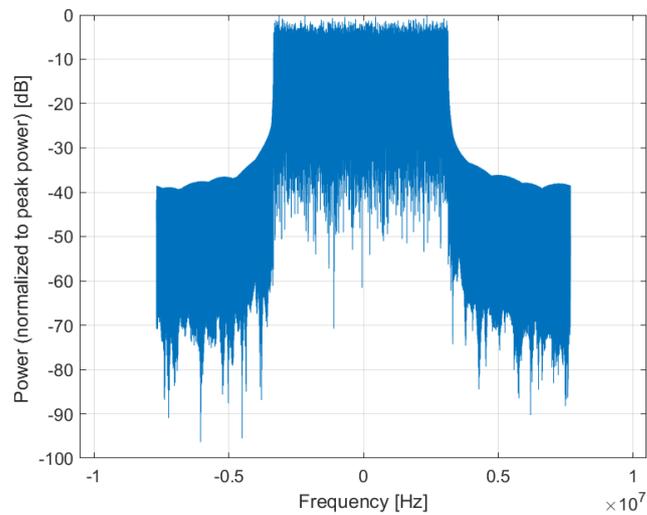
Name:	<b>5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10938-AAB
PAR: <sup>1</sup>	<b>5.90 dB</b>
MIF: <sup>2</sup>	<b>-18.58 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

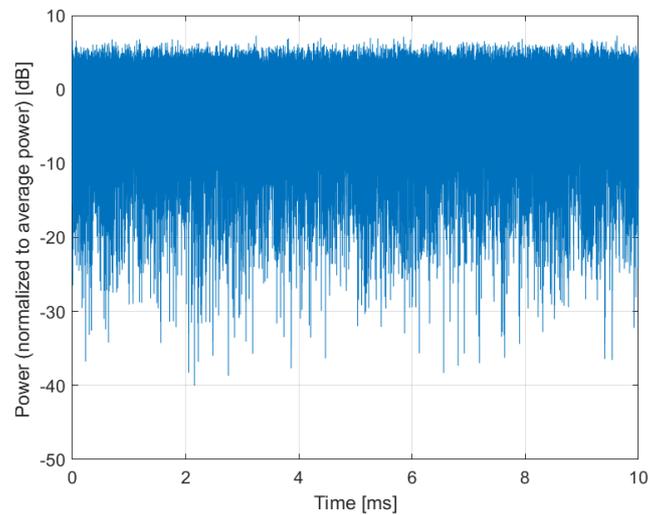
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10939-AAB

PAR: <sup>1</sup> **5.82 dB**  
MIF: <sup>2</sup> **-18.65 dB**

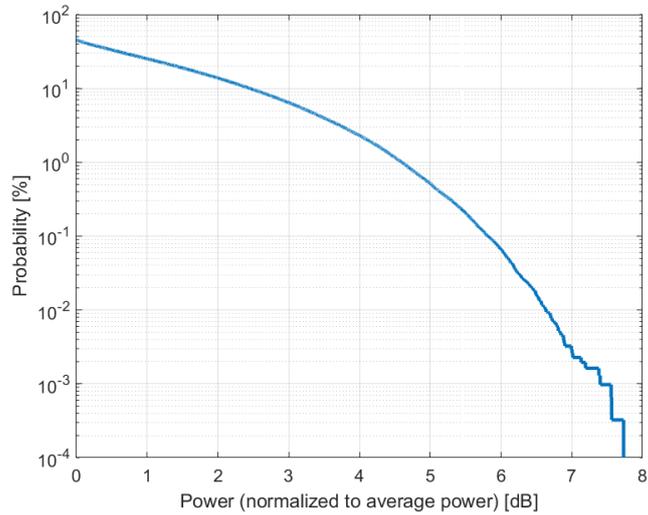
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n2 (1850 - 1910 MHz)  
Band n5 (824 - 849 MHz)  
Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n71 (663 - 698 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n8 (880 - 915 MHz)  
Band n20 (832 - 862 MHz)  
Band n26 (814 - 849 MHz)  
Band n28 (703 - 748 MHz)  
Band n65 (1920 - 2010 MHz)  
Band n74 (1427 - 1470 MHz)  
Band n92 (832 - 862 MHz)  
Band n94 (880 - 915 MHz)  
Band n80 (1710 - 1785 MHz)  
Band n81 (880 - 915 MHz)  
Band n82 (832 - 862 MHz)  
Band n83 (703 - 748 MHz)  
Band n84 (1920 - 1980 MHz)  
Band n86 (1710 - 1780 MHz)  
Band n89 (824 - 849 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

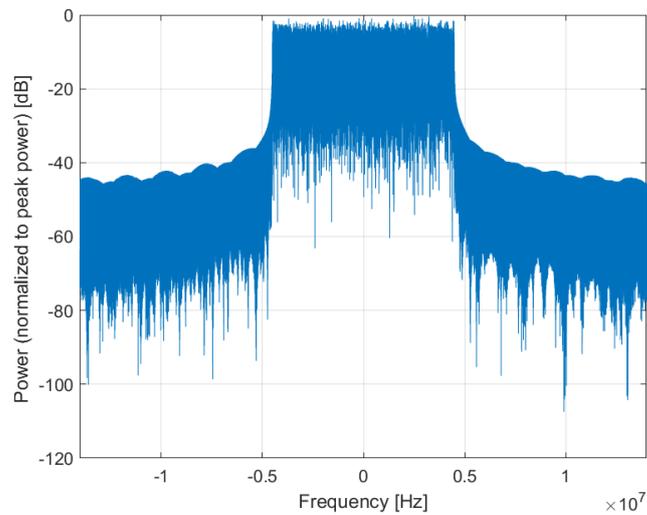
Bandwidth: 20.0 MHz  
Integration Time: 10.0 ms

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

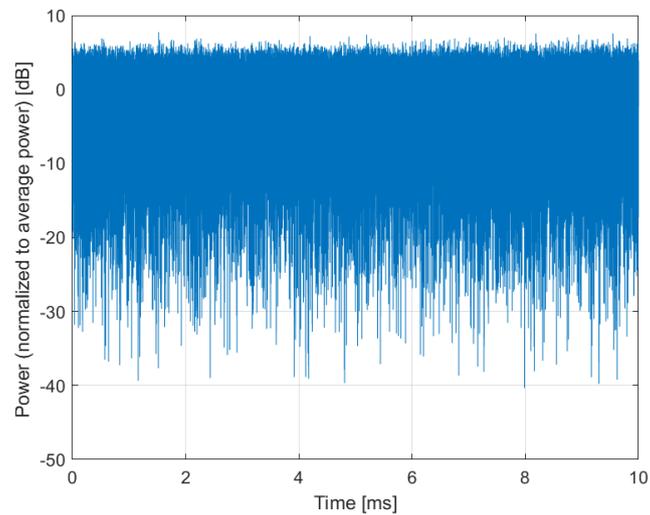
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10940-AAB

PAR: <sup>1</sup> **5.89 dB**  
MIF: <sup>2</sup> **-18.65 dB**

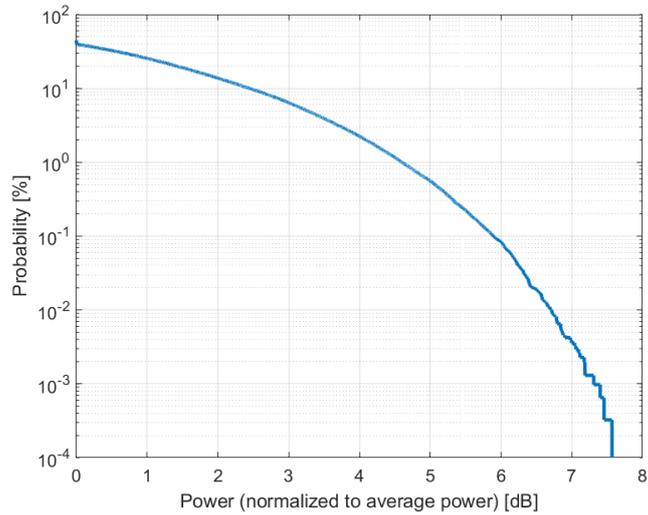
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n80 (1710 - 1785 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

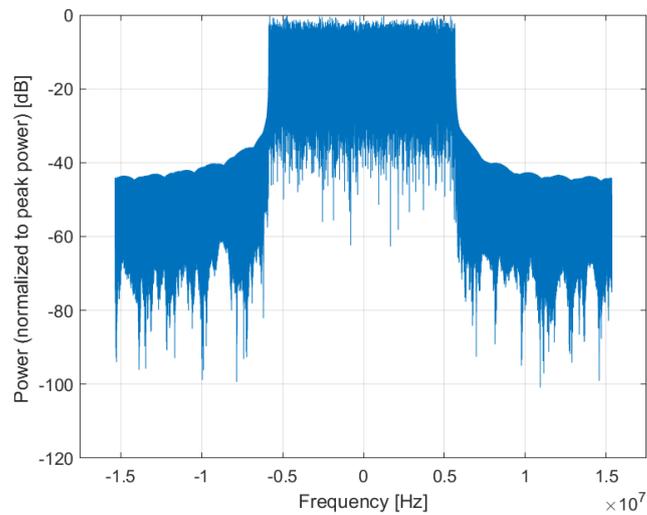
Bandwidth: 25.0 MHz  
Integration Time: 10.0 ms

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

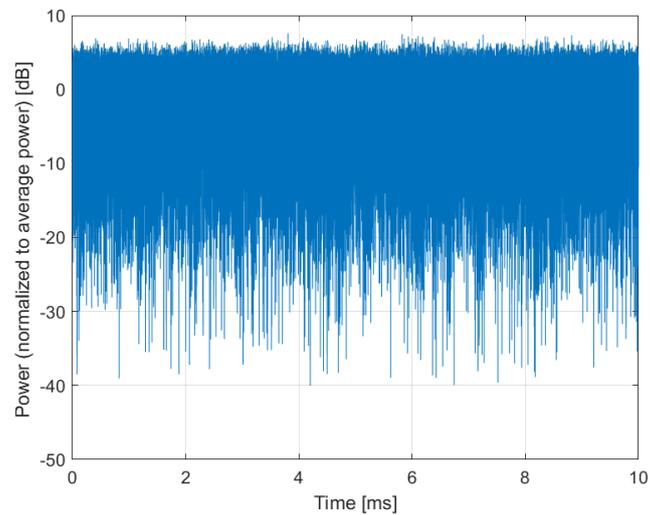
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10941-AAB

PAR: <sup>1</sup> **5.83 dB**  
MIF: <sup>2</sup> **-18.66 dB**

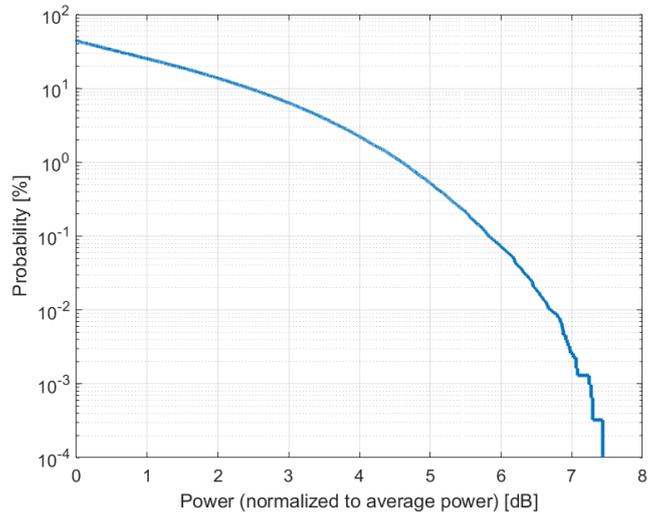
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n28 (703 - 748 MHz)  
Band n80 (1710 - 1785 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

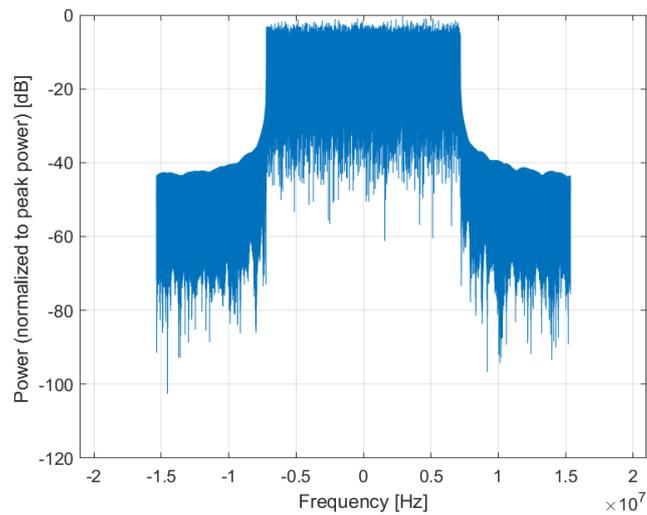
Bandwidth: 30.0 MHz  
Integration Time: 10.0 ms

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

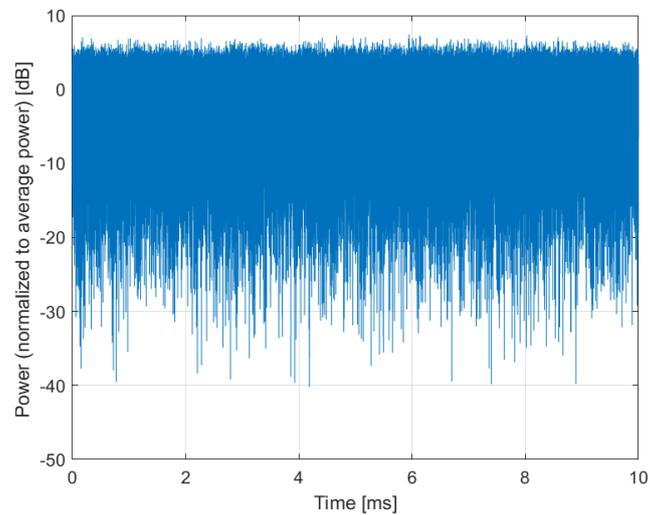
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10942-AAB

PAR: <sup>1</sup> **5.85 dB**  
MIF: <sup>2</sup> **-18.71 dB**

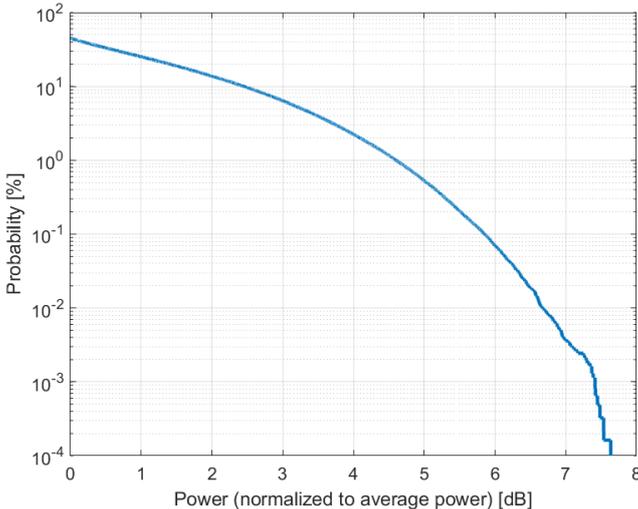
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n86 (1710 - 1780 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

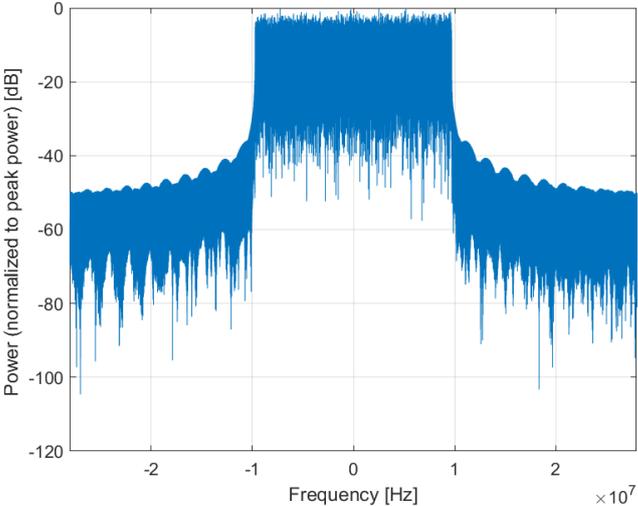
Bandwidth: 40.0 MHz  
Integration Time: 10.0 ms

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

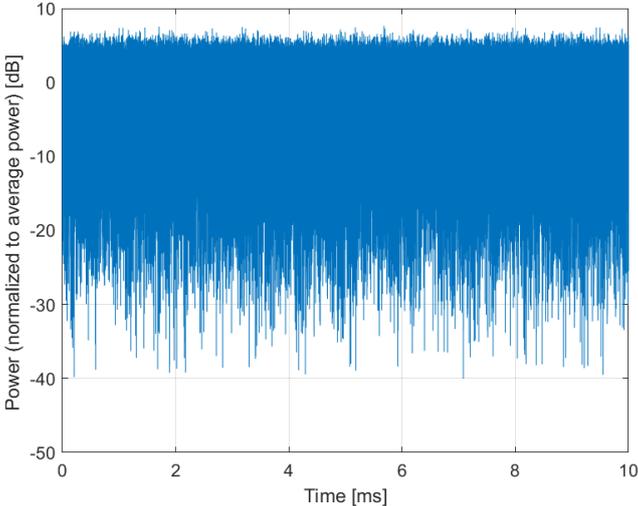
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10943-AAB

PAR: <sup>1</sup> **5.95 dB**  
MIF: <sup>2</sup> **-18.52 dB**

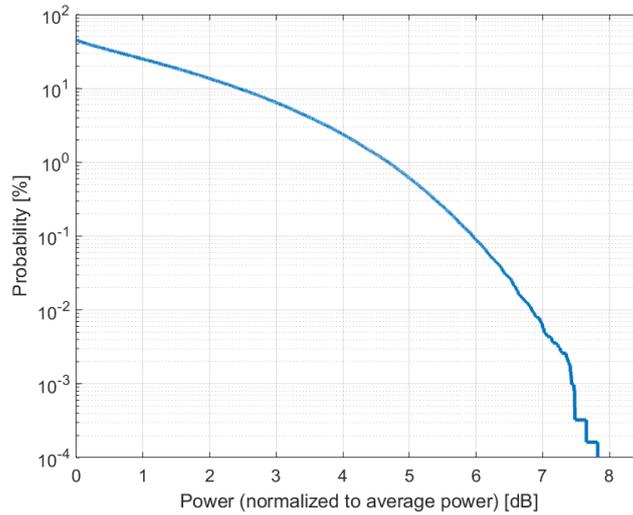
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n1 (1920 - 1980 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n65 (1920 - 2010 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

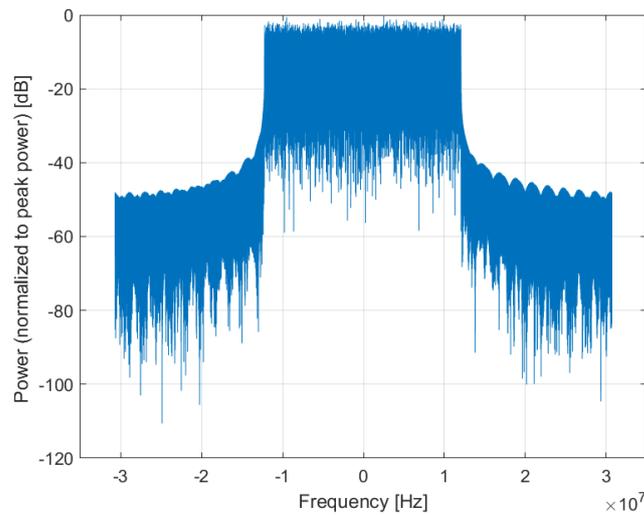
Bandwidth: 50.0 MHz  
Integration Time: 10.0 ms

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

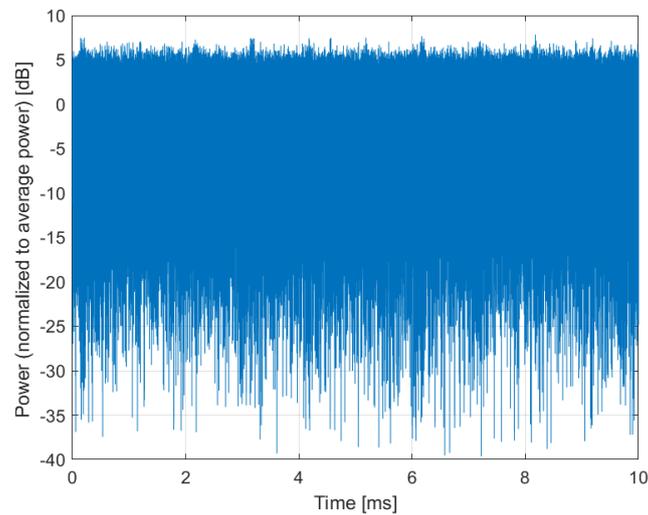
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



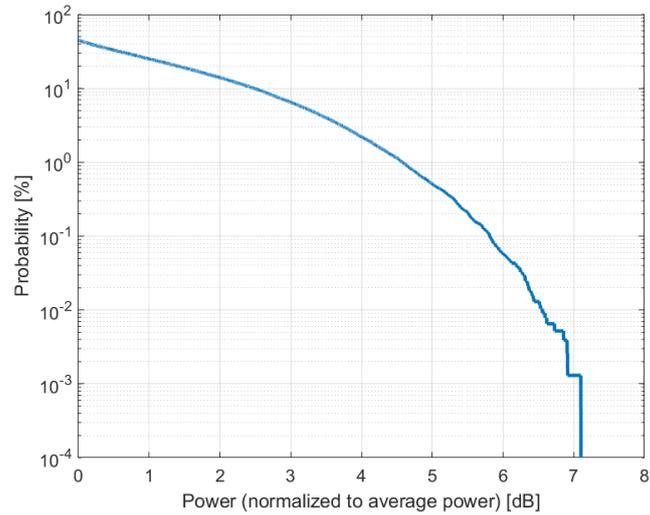
**Time Domain**

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

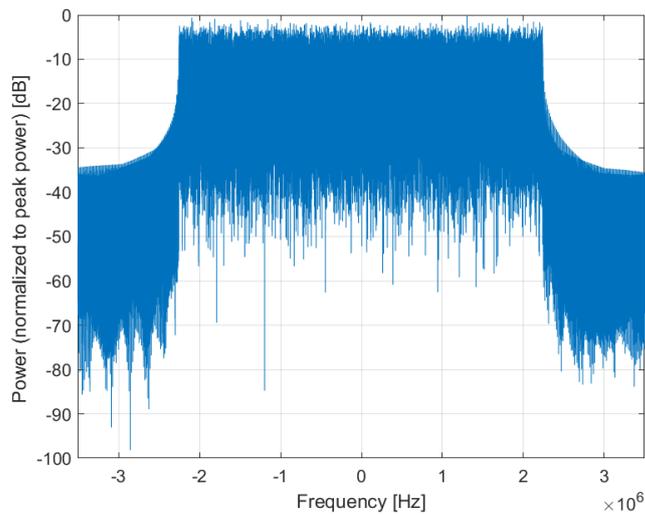
Name:	<b>5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10944-AAB
PAR: <sup>1</sup>	<b>5.81 dB</b>
MIF: <sup>2</sup>	<b>-18.38 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

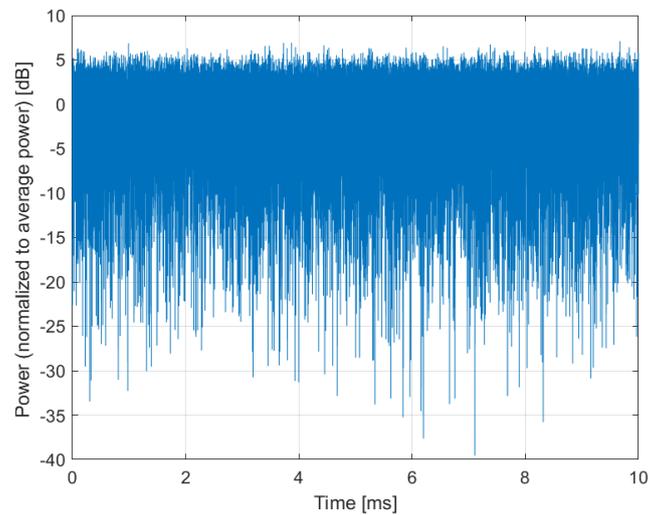
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



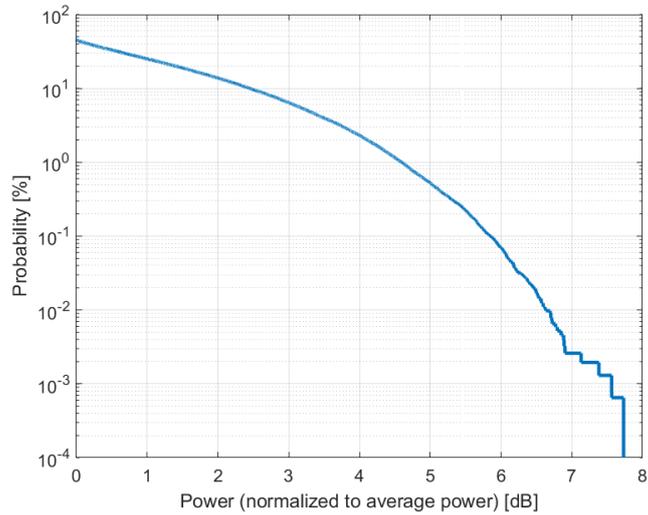
**Time Domain**

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

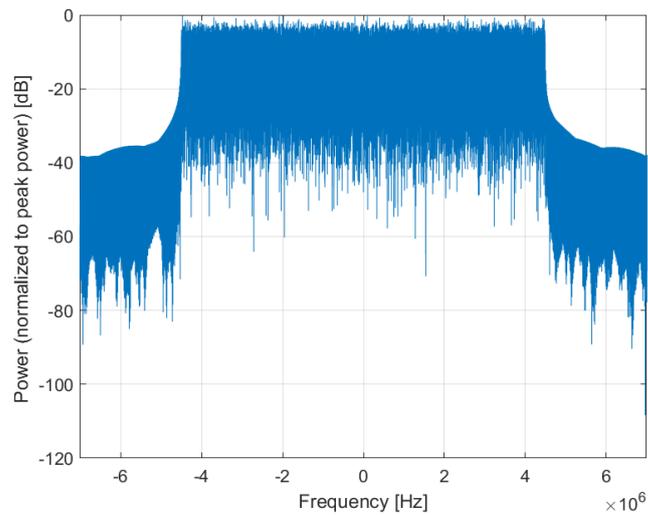
Name:	<b>5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10945-AAB
PAR: <sup>1</sup>	<b>5.85 dB</b>
MIF: <sup>2</sup>	<b>-18.65 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

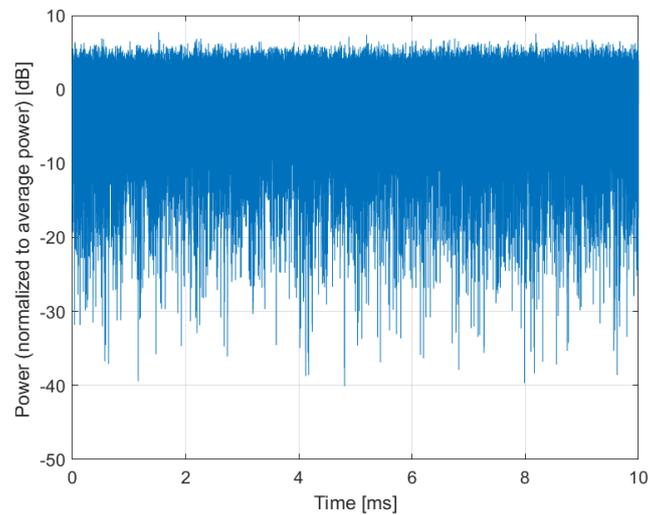
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



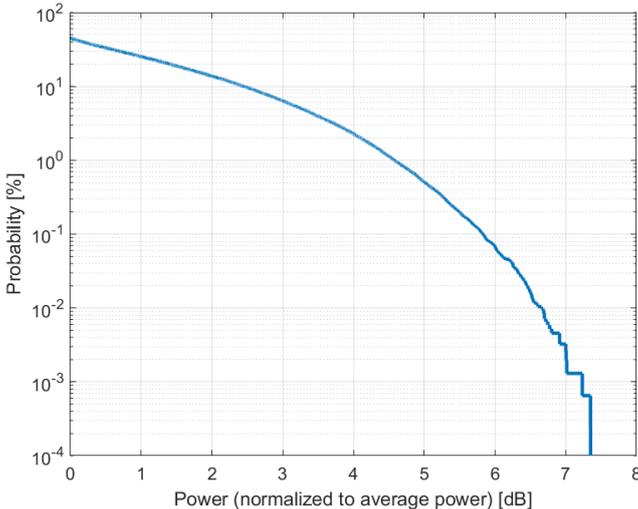
**Time Domain**

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

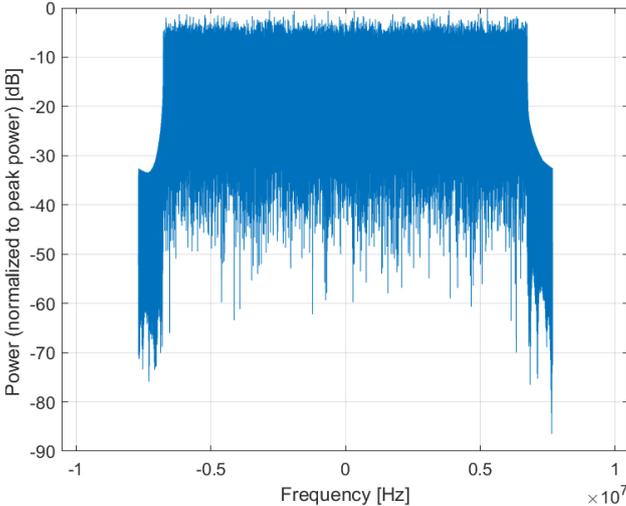
Name:	<b>5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10946-AAB
PAR: <sup>1</sup>	<b>5.83 dB</b>
MIF: <sup>2</sup>	<b>-18.70 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

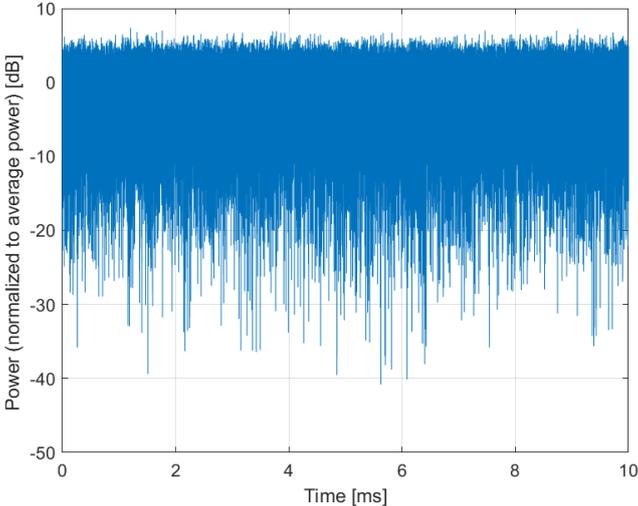
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



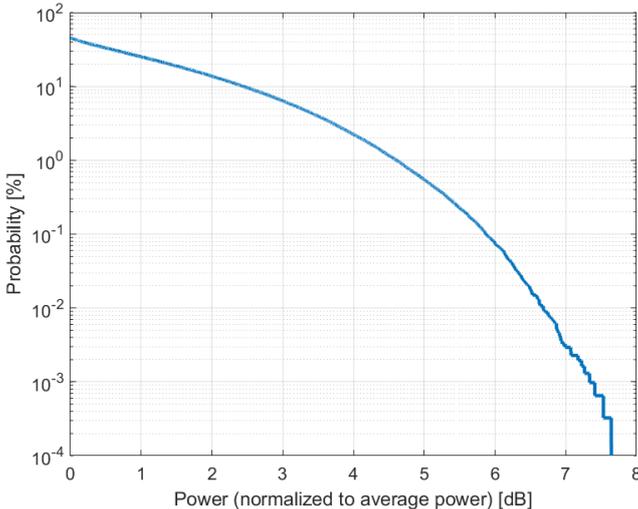
**Time Domain**

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

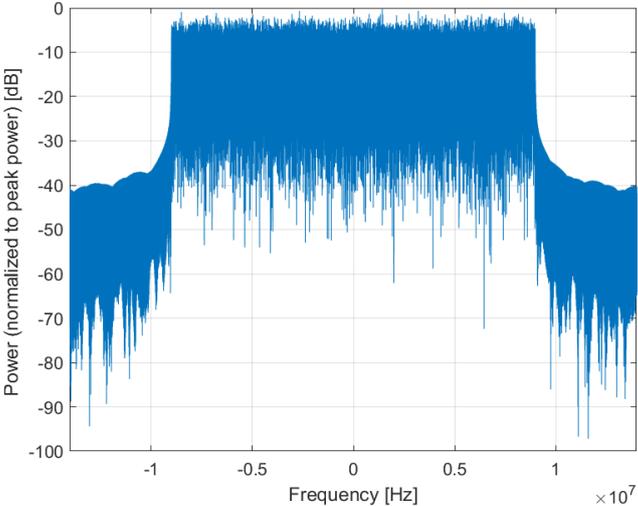
Name:	<b>5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)</b>
Group:	5G NR FR1 FDD
UID:	10947-AAB
PAR: <sup>1</sup>	<b>5.87 dB</b>
MIF: <sup>2</sup>	<b>-18.60 dB</b>
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

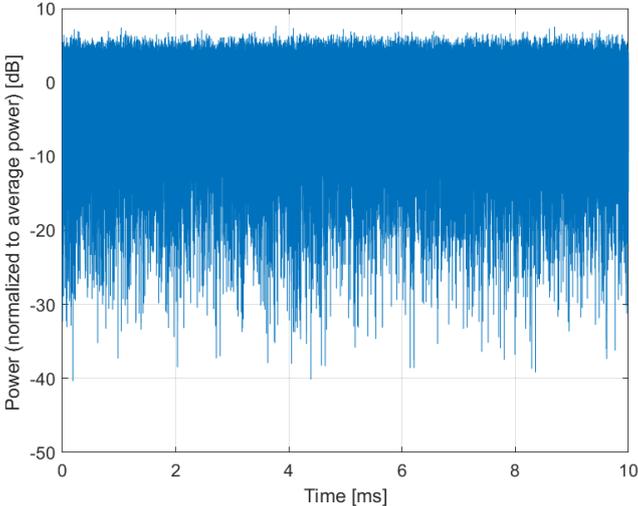
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10948-AAB

PAR: <sup>1</sup> **5.94 dB**  
MIF: <sup>2</sup> **-18.50 dB**

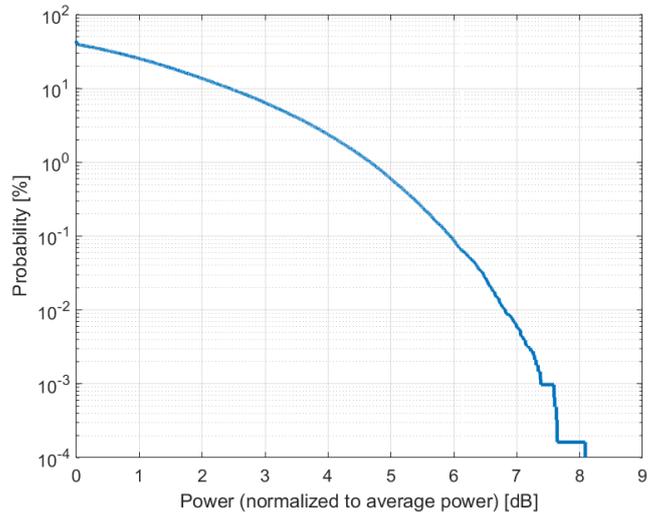
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n80 (1710 - 1785 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

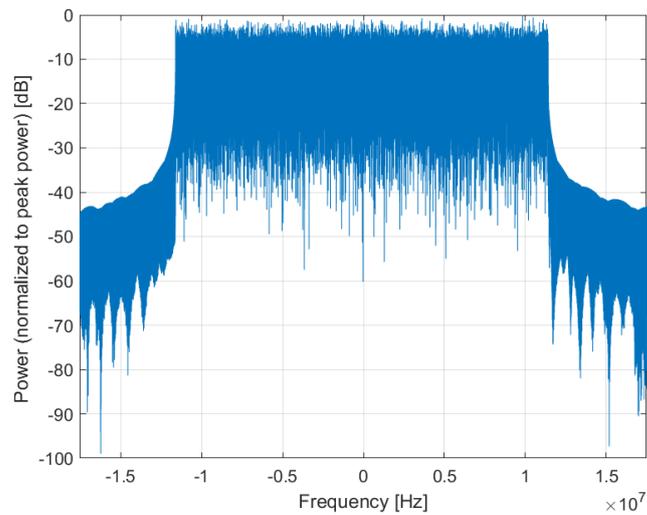
Bandwidth: 25.0 MHz  
Integration Time: 10.0 ms

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

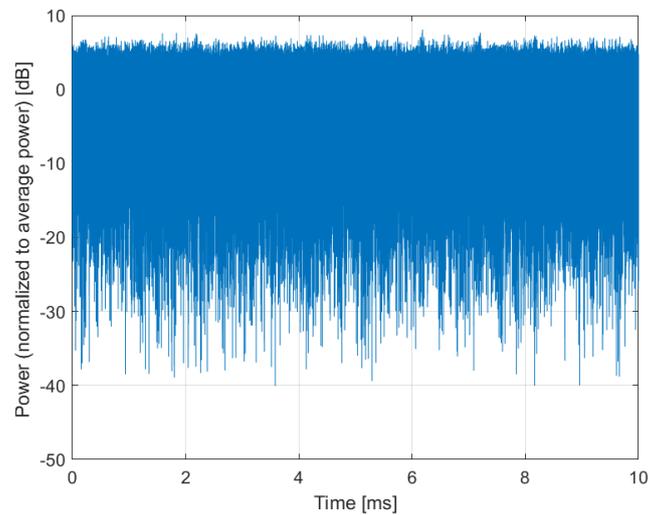
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10949-AAB

PAR: <sup>1</sup> **5.87 dB**  
MIF: <sup>2</sup> **-18.85 dB**

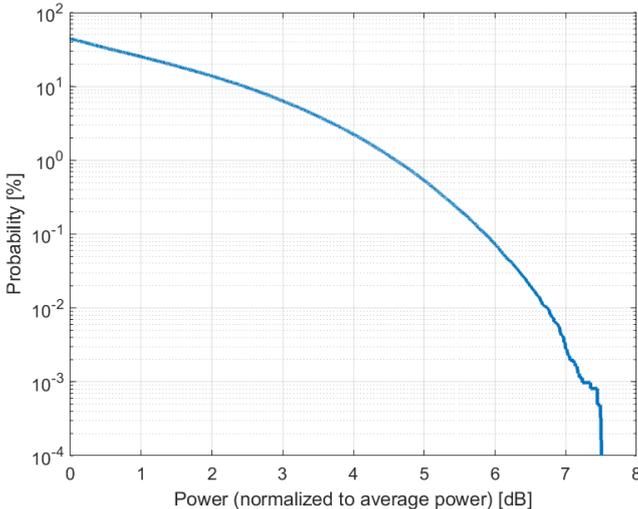
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n28 (703 - 748 MHz)  
Band n80 (1710 - 1785 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

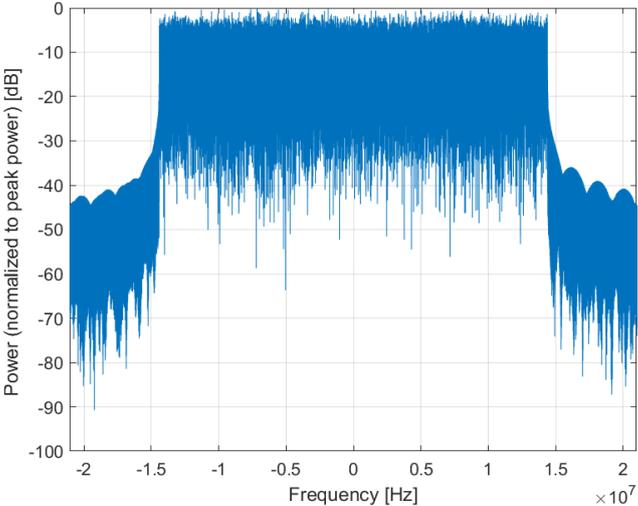
Bandwidth: 30.0 MHz  
Integration Time: 10.0 ms

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

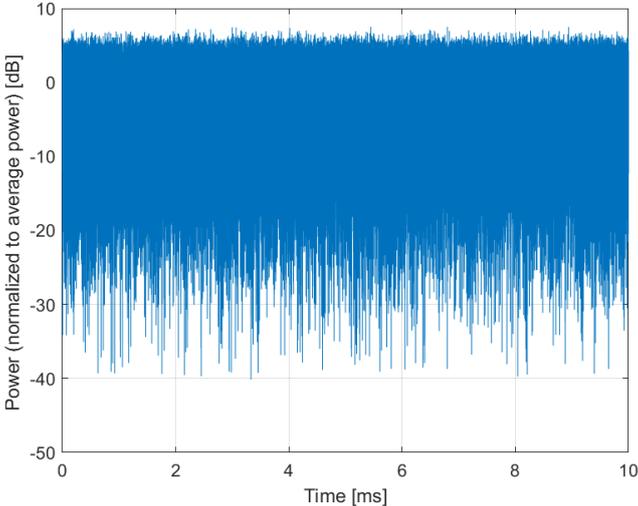
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10950-AAB

PAR: <sup>1</sup> **5.94 dB**  
MIF: <sup>2</sup> **-18.50 dB**

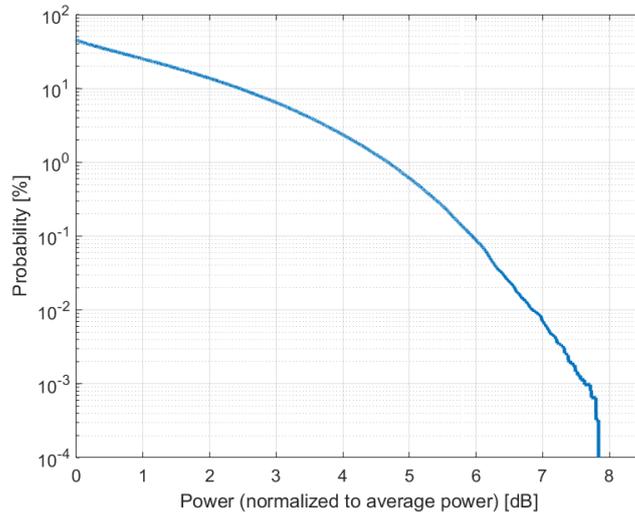
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n25 (1850 - 1915 MHz)  
Band n66 (1710 - 1780 MHz)  
Band n1 (1920 - 1980 MHz)  
Band n3 (1710 - 1785 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n86 (1710 - 1780 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

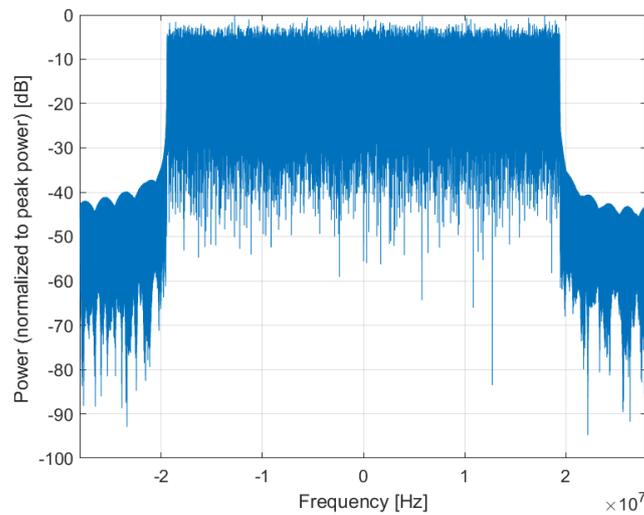
Bandwidth: 40.0 MHz  
Integration Time: 10.0 ms

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

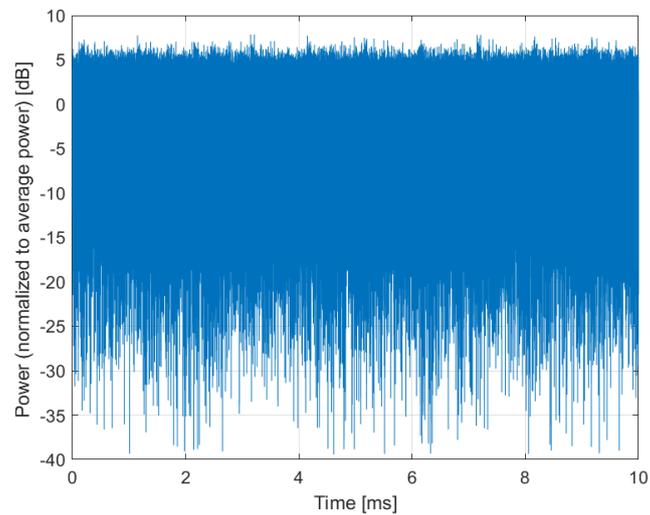
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10951-AAB

PAR: <sup>1</sup> **5.92 dB**  
MIF: <sup>2</sup> **-18.56 dB**

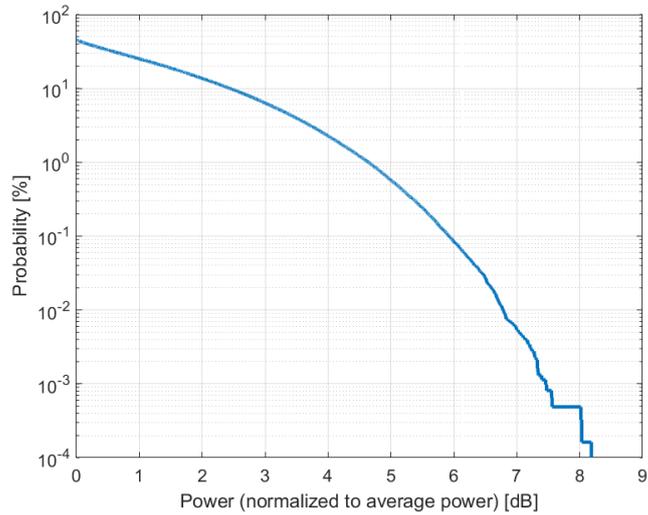
Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: Band n1 (1920 - 1980 MHz)  
Band n7 (2500 - 2570 MHz)  
Band n65 (1920 - 2010 MHz)  
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM  
Modulation Scheme: QPSK  
Subcarrier Spacing: 15 kHz  
Number RBs: 1  
Data Type: PN9

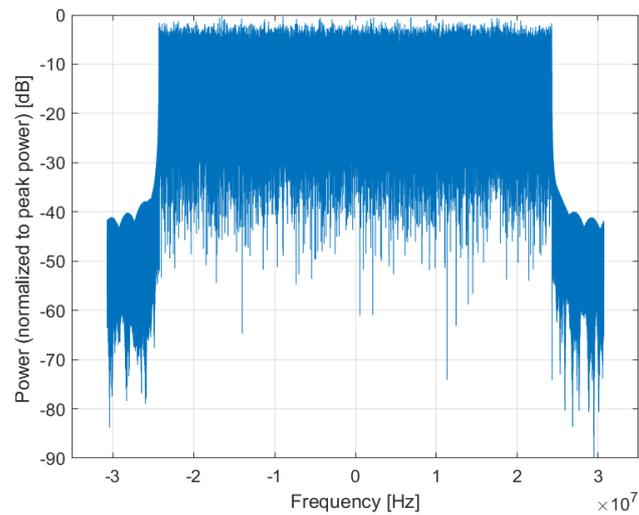
Bandwidth: 50.0 MHz  
Integration Time: 10.0 ms

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

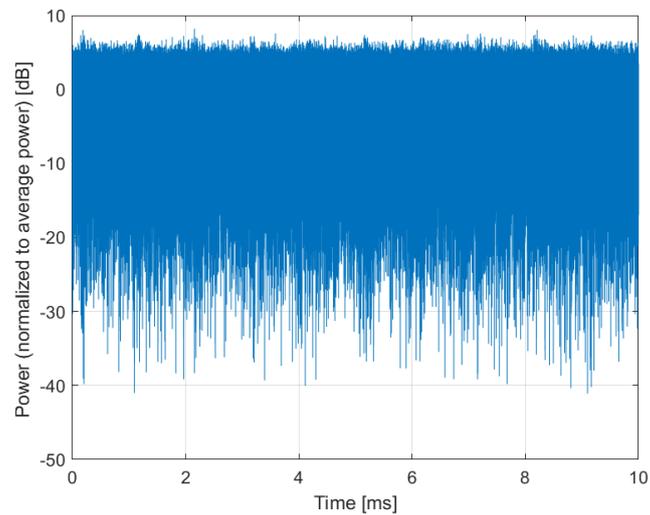
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**

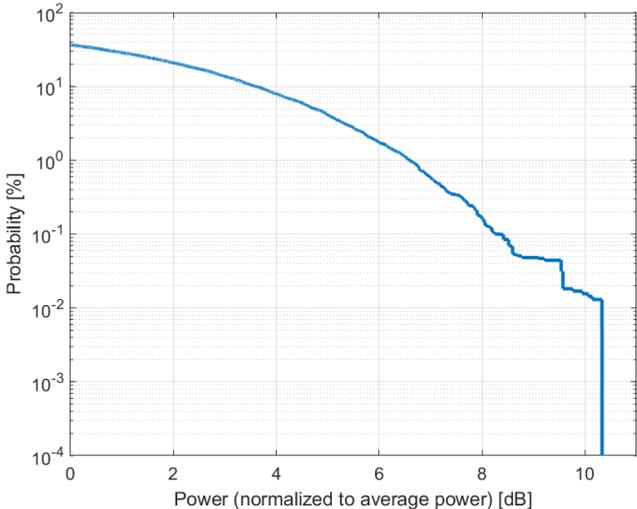


**Frequency Domain**

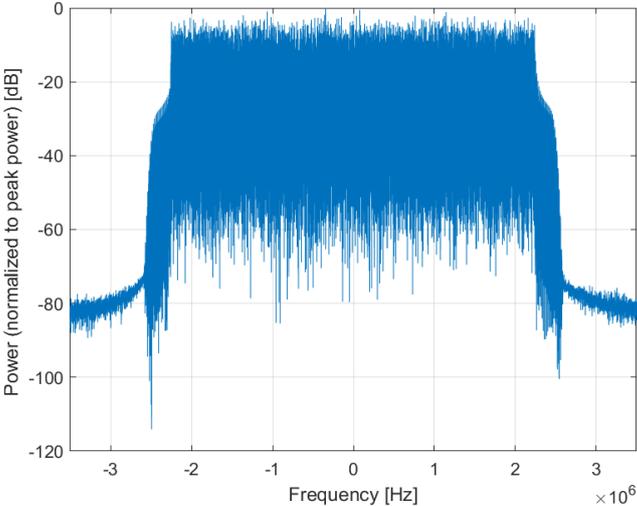


**Time Domain**

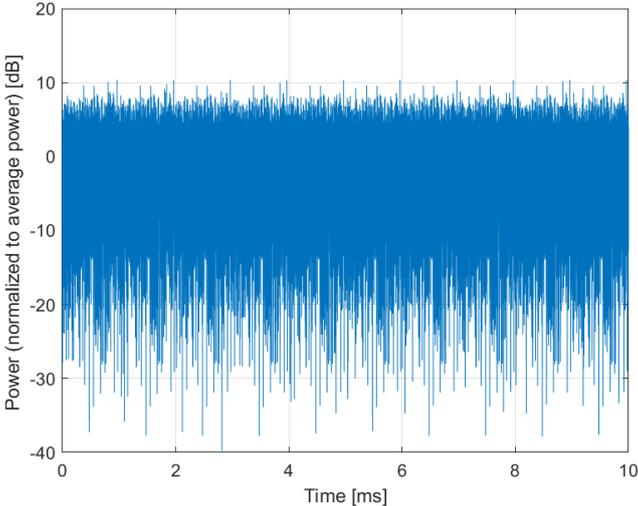




**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10953-AAA

PAR: <sup>1</sup> **8.15 dB**  
MIF: <sup>2</sup> **-18.27 dB**

Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band: Validation band (0.0 - 6000.0 MHz)

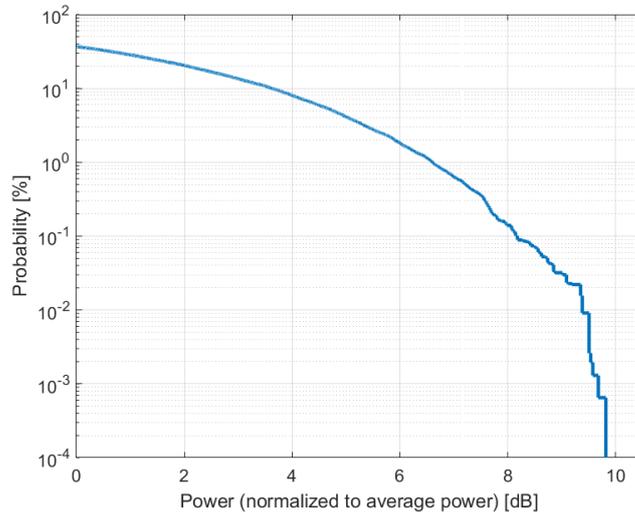
Detailed Specification: Multiplexing Scheme: CP-OFDM  
Modulation Scheme: 64-QAM  
Subcarrier Spacing: 15 kHz  
Model: TM 3.1  
Data Type: PN9

Bandwidth: 10.0 MHz  
Integration Time: 10.0 ms

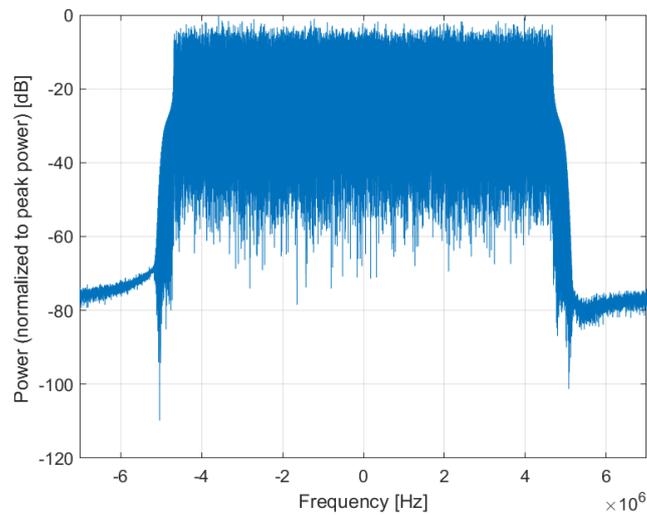
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<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

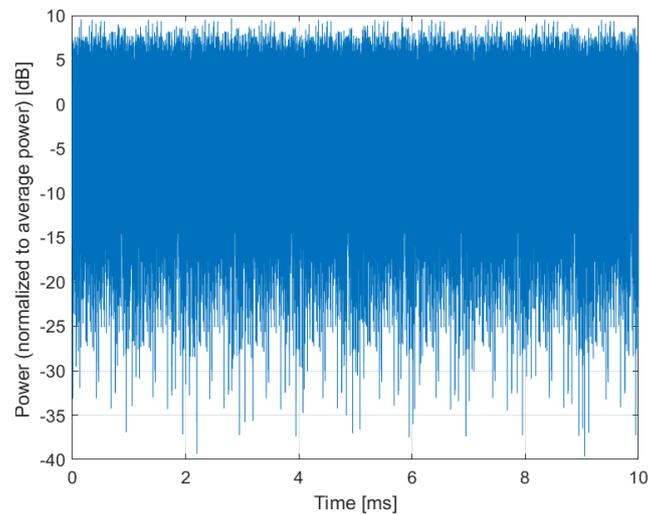
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10954-AAA

PAR: <sup>1</sup> **8.23 dB**  
MIF: <sup>2</sup> **-20.40 dB**

Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band: Validation band (0.0 - 6000.0 MHz)

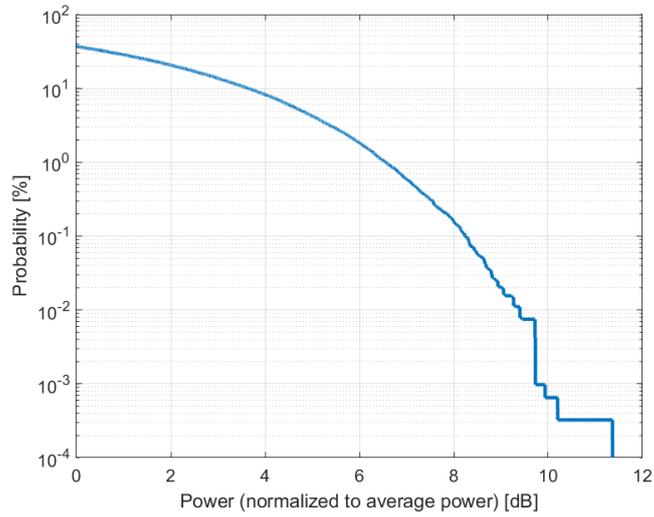
Detailed Specification: Multiplexing Scheme: CP-OFDM  
Modulation Scheme: 64-QAM  
Subcarrier Spacing: 15 kHz  
Model: TM 3.1  
Data Type: PN9

Bandwidth: 15.0 MHz  
Integration Time: 10.0 ms

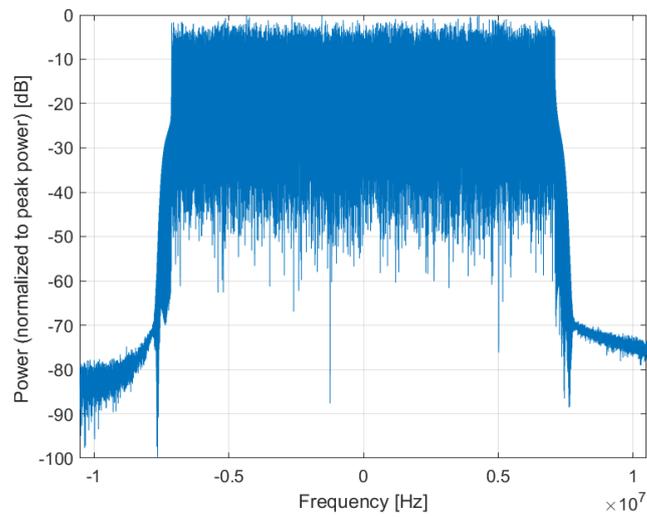
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<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

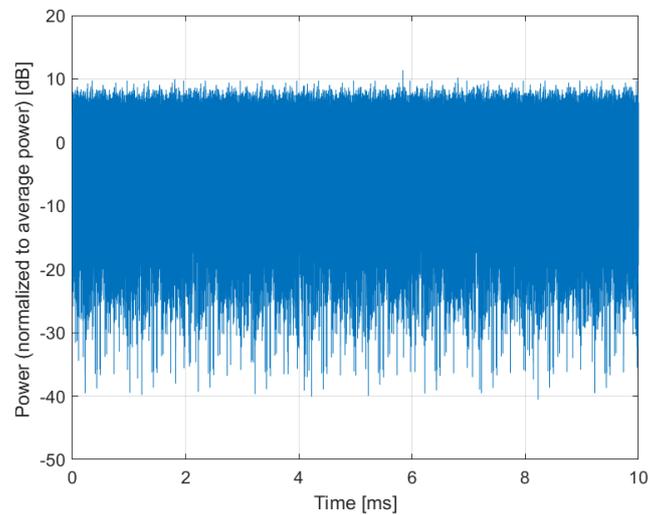
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name: **5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD  
UID: 10955-AAA

PAR: <sup>1</sup> **8.42 dB**  
MIF: <sup>2</sup> **-22.55 dB**

Standard Reference: SPEAG  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM  
Modulation Scheme: 64-QAM  
Subcarrier Spacing: 15 kHz  
Model: TM 3.1  
Data Type: PN9

Bandwidth: 20.0 MHz  
Integration Time: 10.0 ms

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

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