

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10499-AAB

PAR: ¹ **8.68 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

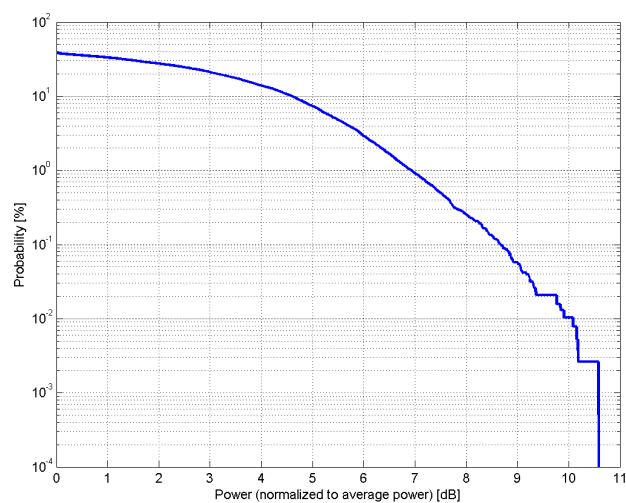
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)
Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)
Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

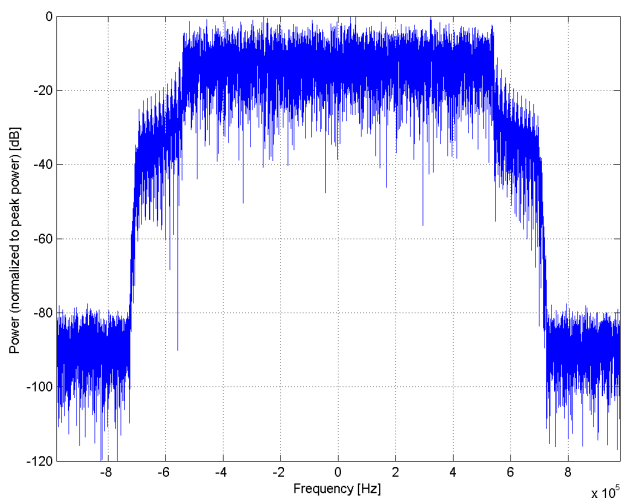
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

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

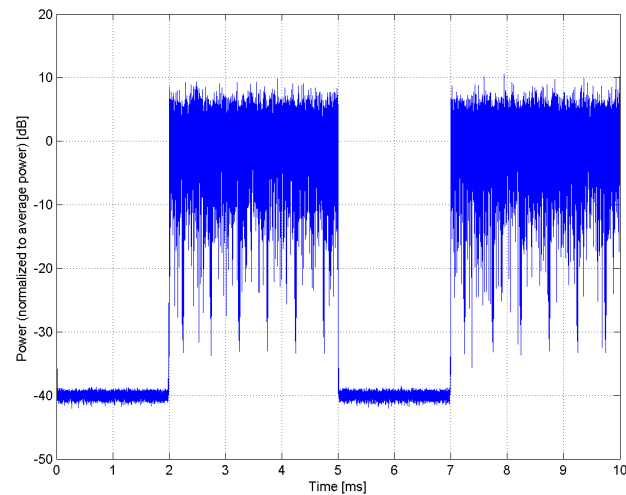
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



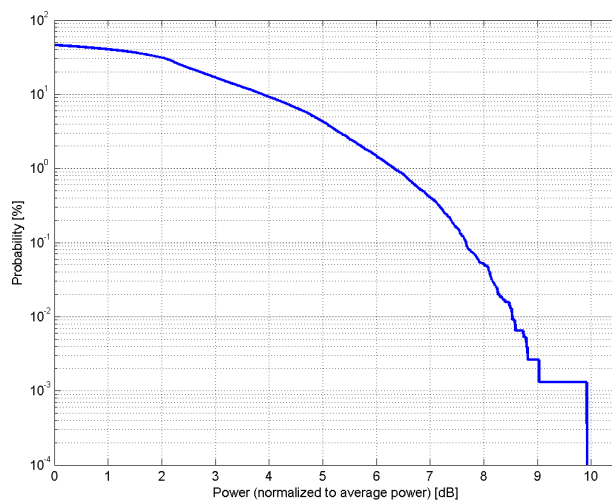
Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

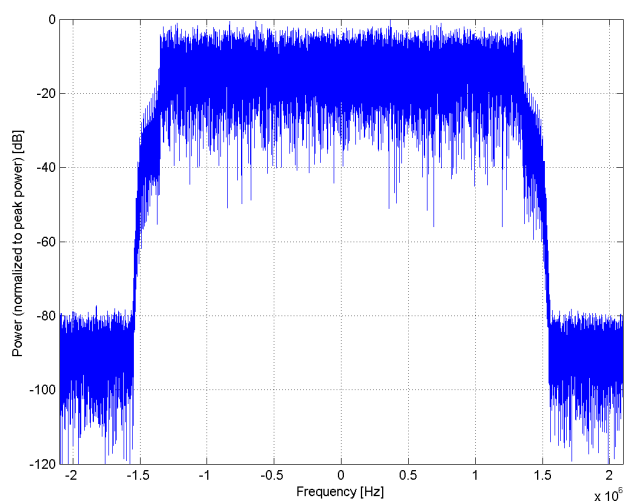
Name:	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10500-AAC
PAR: ¹	7.67 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz) Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 15 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

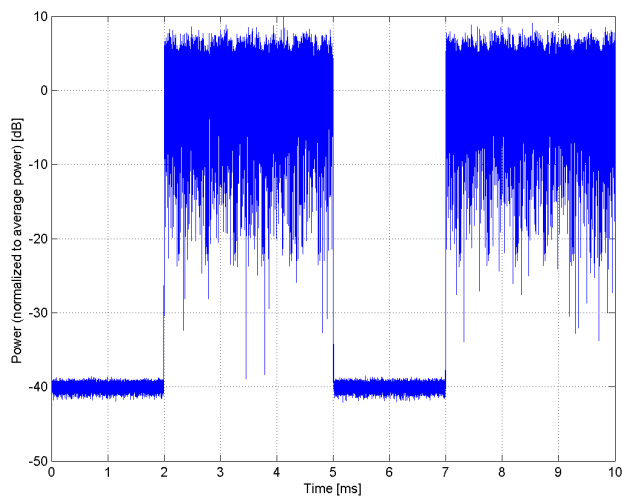
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10501-AAC

PAR: ¹ **8.44 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

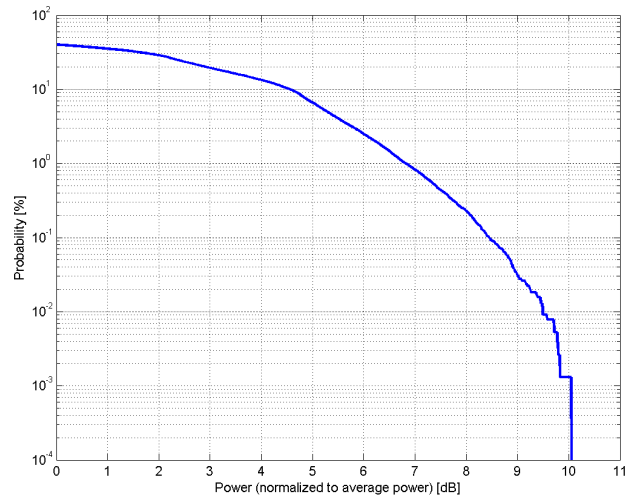
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)
Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)
Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)
Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)
Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz)
Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

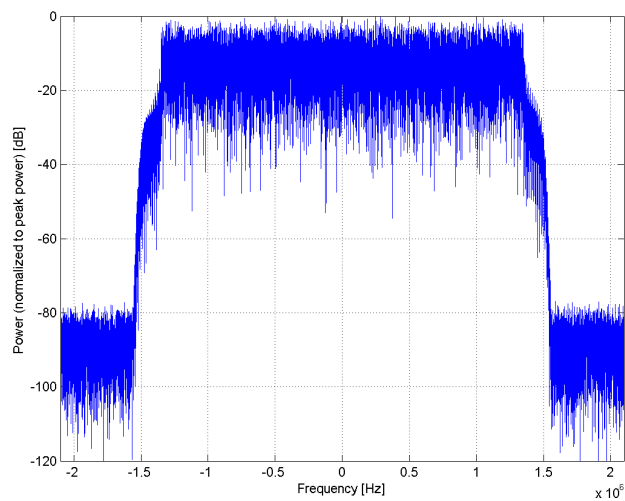
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

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

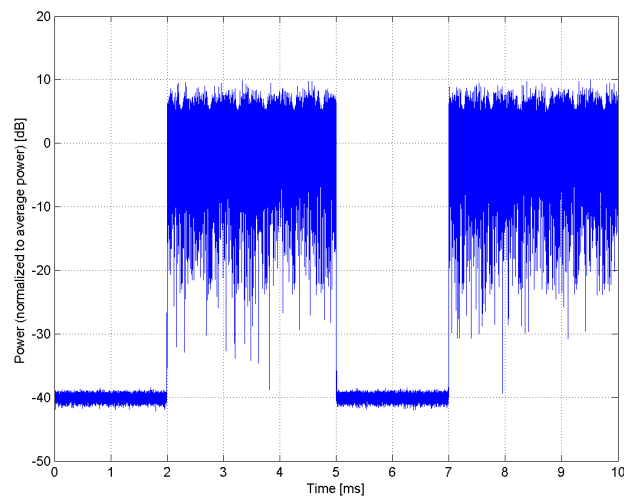
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10502-AAC

PAR: ¹ **8.52 dB**
MIF: ² **-3.42 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

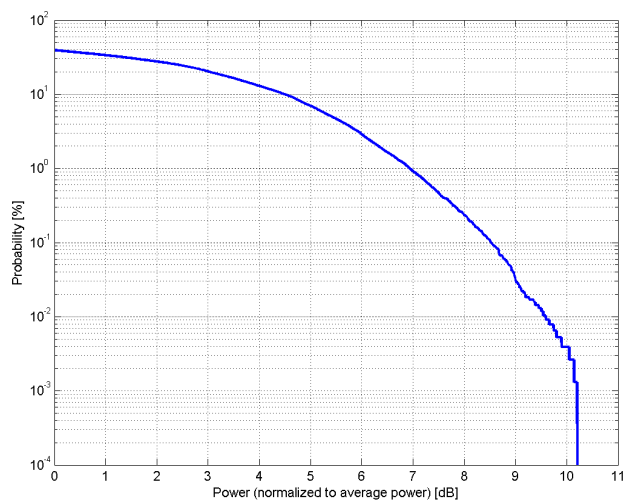
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)
Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)
Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)
Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)
Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz)
Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

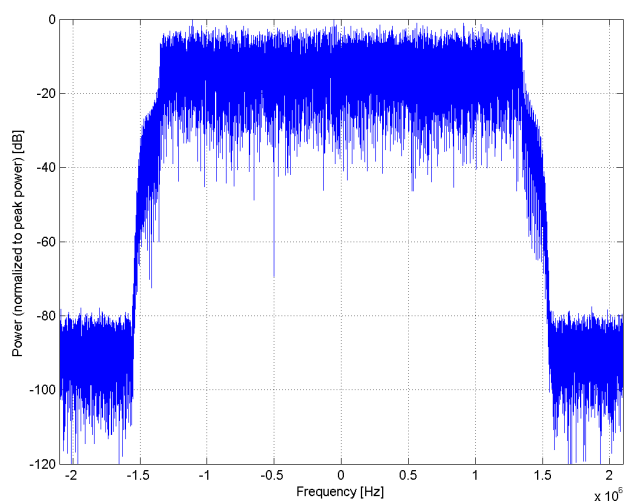
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

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

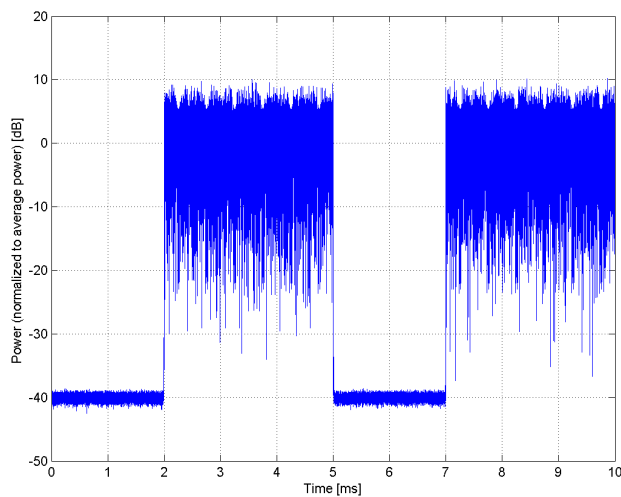
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

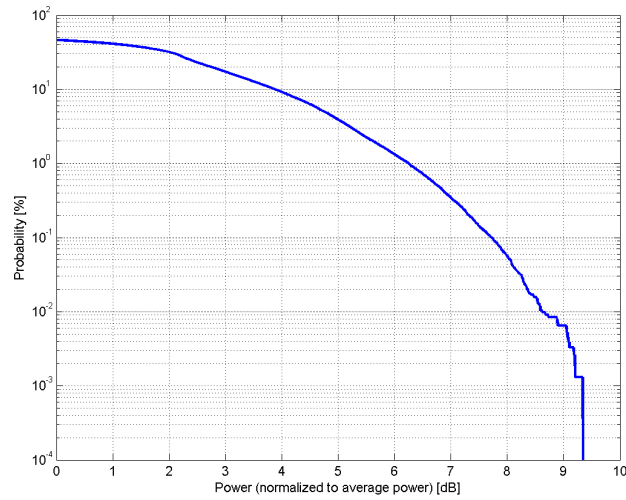
Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

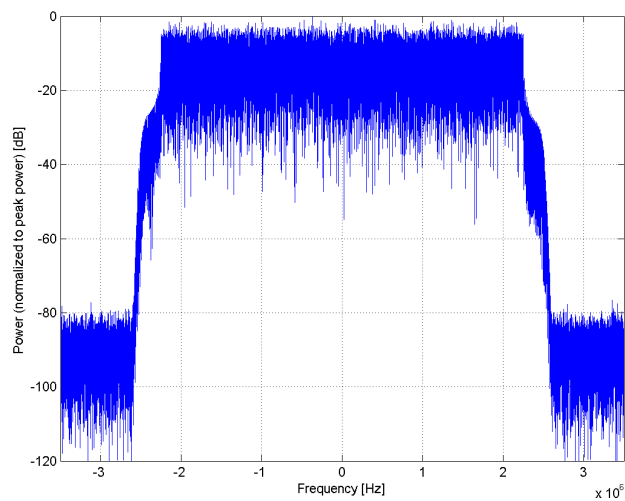
Name:	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10503-AAF
PAR: ¹	7.72 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz) Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz) Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 25 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

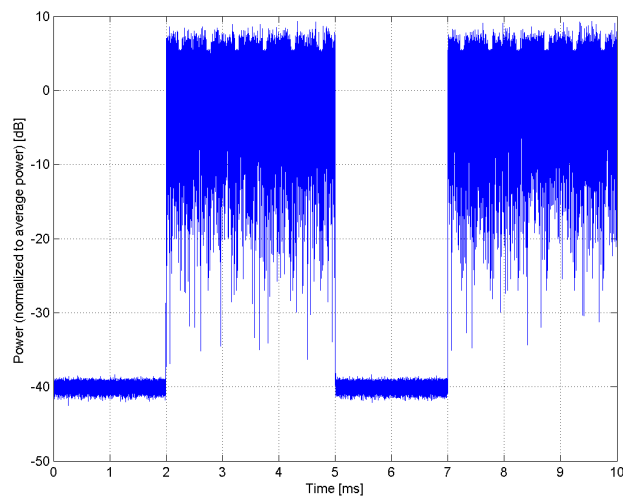
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

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Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10504-AAF

PAR: ¹ **8.31 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 16-QAM

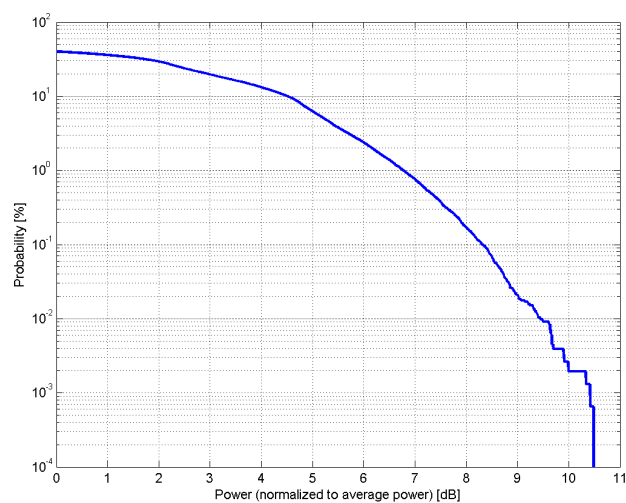
Frequency Band: Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz)
Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz)
Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)
Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)
Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz)
Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz)
Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz)
Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz)
Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)
Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz)
Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz)
Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)
Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz)
Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)
Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)
Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz)
Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz)
Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

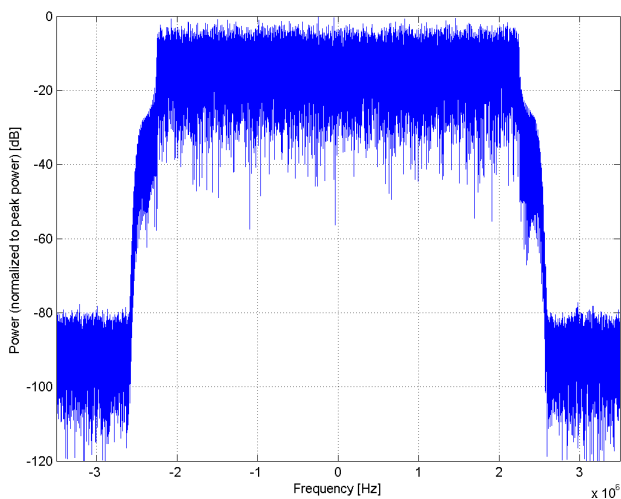
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

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

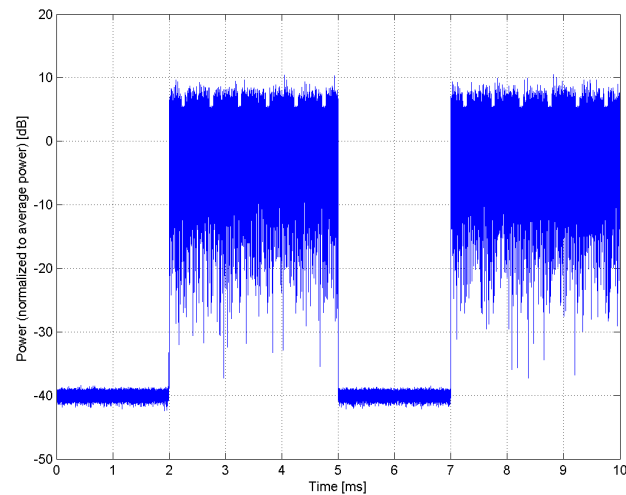
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10505-AAF

PAR: ¹ **8.54 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 64-QAM

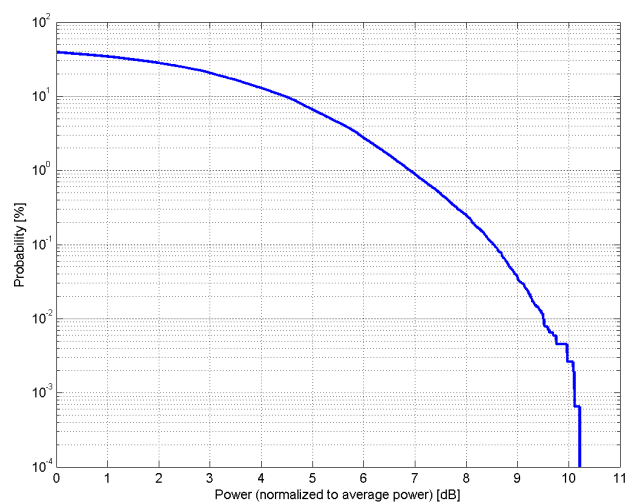
Frequency Band: Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz)
Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz)
Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)
Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)
Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz)
Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz)
Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz)
Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz)
Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)
Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz)
Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz)
Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)
Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz)
Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)
Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)
Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz)
Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz)
Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

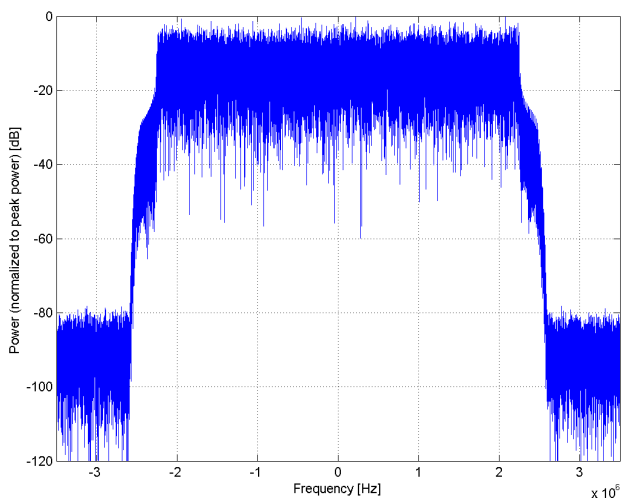
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

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

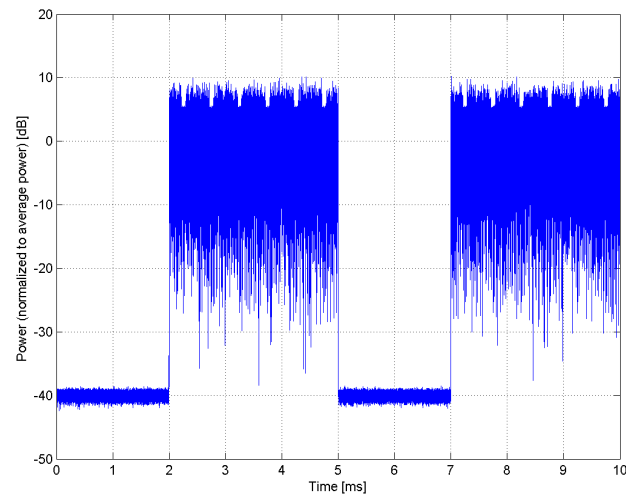
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



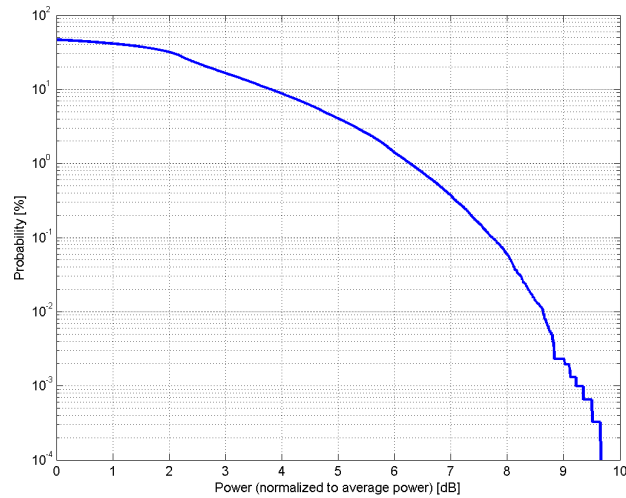
Time Domain

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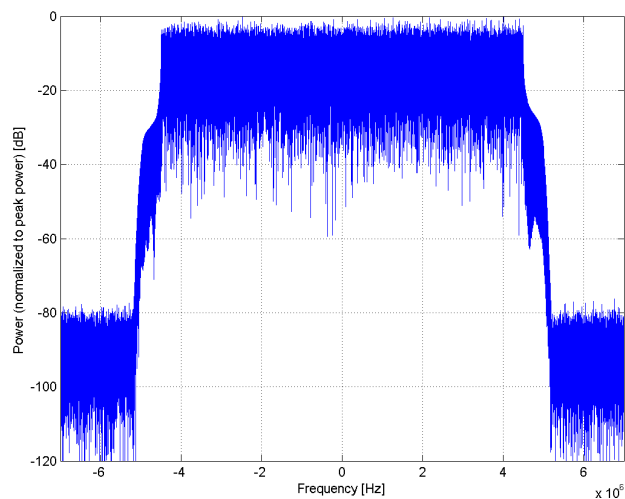
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10506-AAF
PAR: ¹	7.74 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 46, E-UTRA/FDD (5150.0 - 5925.0 MHz) Band 47, E-UTRA/TDD (5855.0 - 5925.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 49, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz) Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 50 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

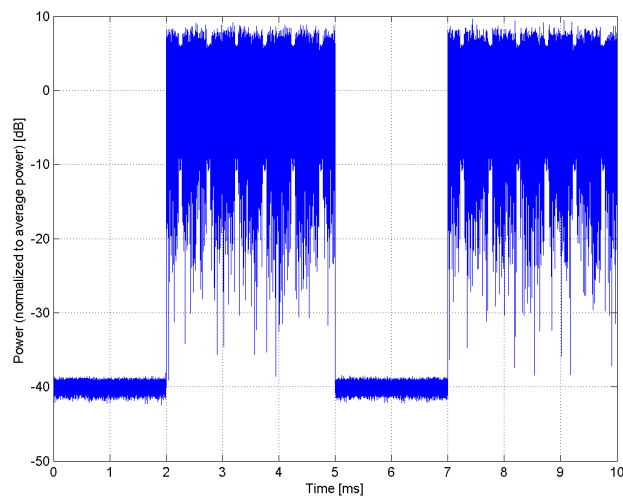
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10507-AAF

PAR: ¹ **8.36 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 16-QAM

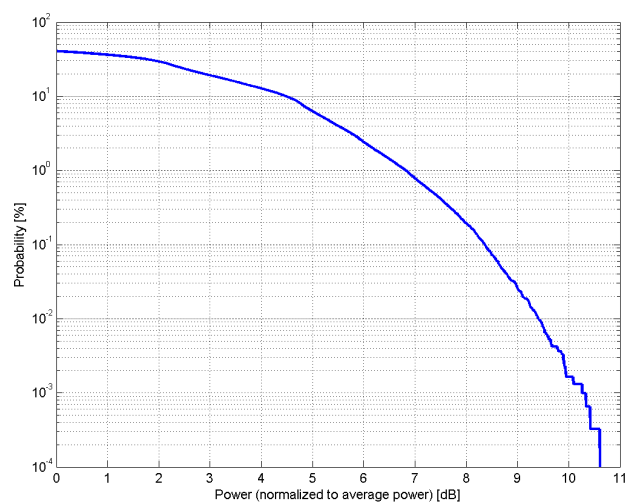
Frequency Band: Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz)
Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz)
Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)
Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)
Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz)
Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz)
Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz)
Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz)
Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)
Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz)
Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz)
Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)
Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz)
Band 46, E-UTRA/FDD (5150.0 - 5925.0 MHz)
Band 47, E-UTRA/TDD (5855.0 - 5925.0 MHz)
Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)
Band 49, E-UTRA/TDD (3550.0 - 3700.0 MHz)
Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)
Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz)
Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

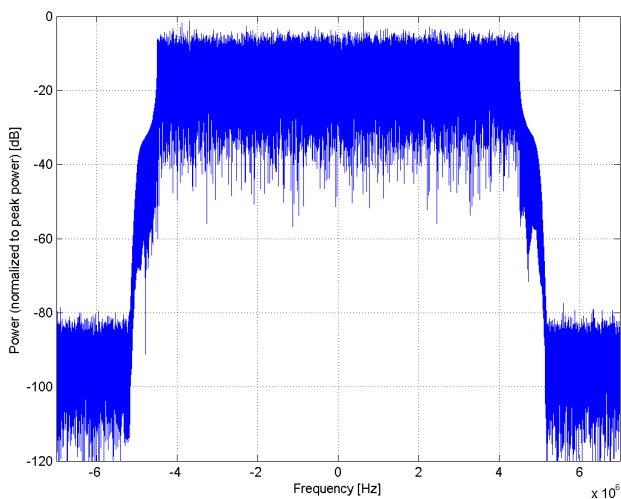
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

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

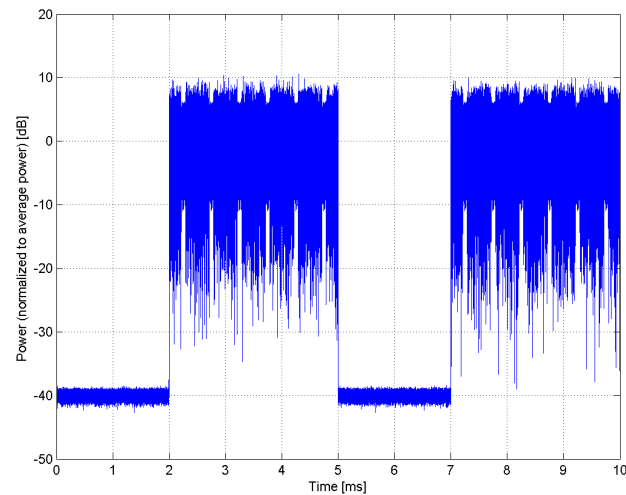
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10508-AAF

PAR: ¹ **8.55 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 64-QAM

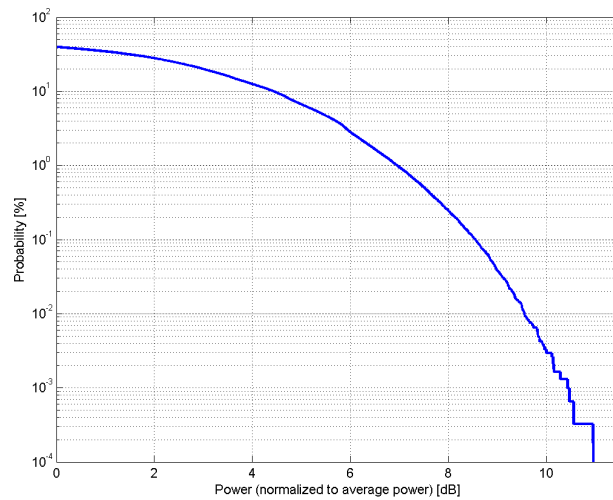
Frequency Band: Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz)
Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz)
Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)
Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)
Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz)
Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz)
Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz)
Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz)
Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)
Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz)
Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz)
Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)
Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz)
Band 46, E-UTRA/FDD (5150.0 - 5925.0 MHz)
Band 47, E-UTRA/TDD (5855.0 - 5925.0 MHz)
Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)
Band 49, E-UTRA/TDD (3550.0 - 3700.0 MHz)
Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)
Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz)
Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

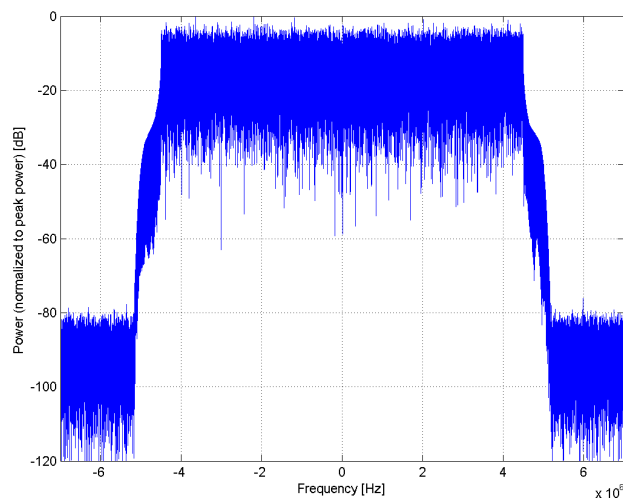
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

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

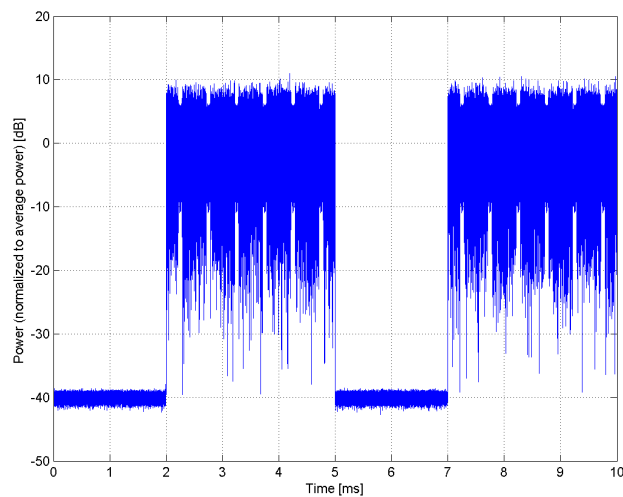
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

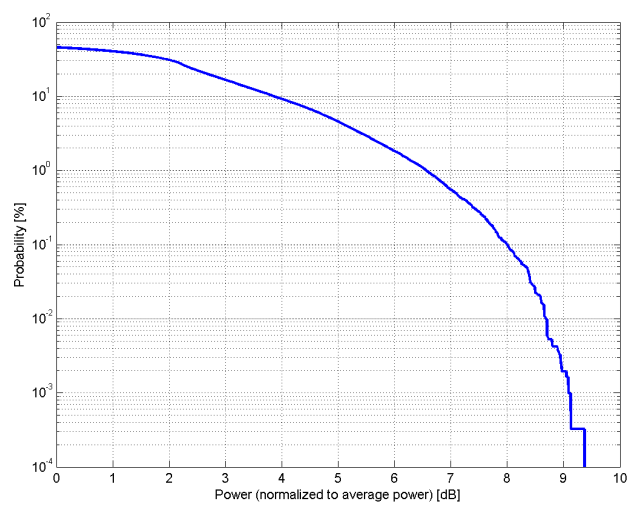


Time Domain

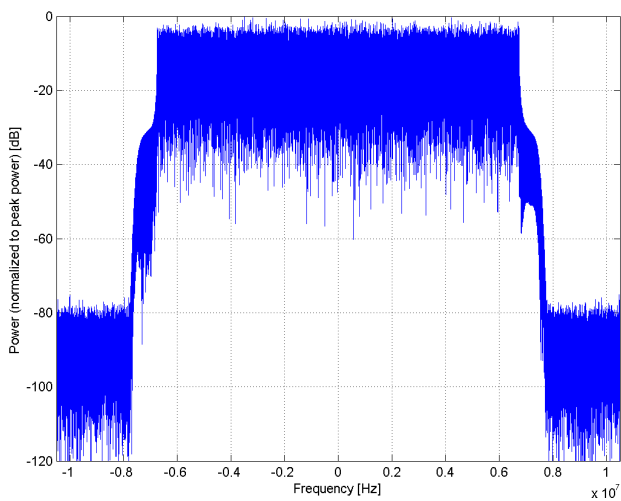
**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10509-AAE
PAR: ¹	7.99 dB
MIF: ²	-3.42 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 76, E-UTRA/FDD (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 75 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

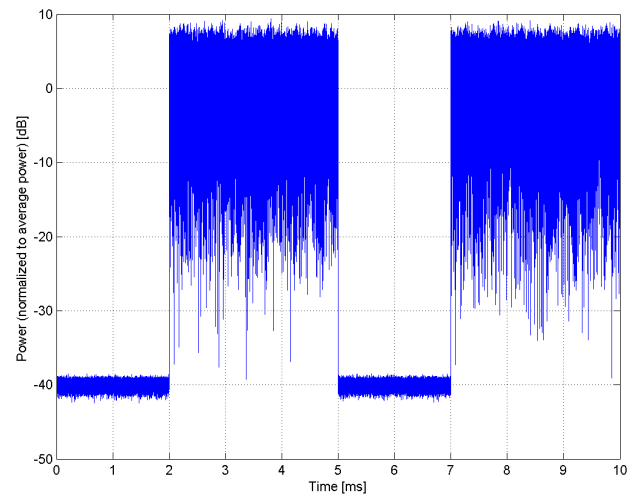
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

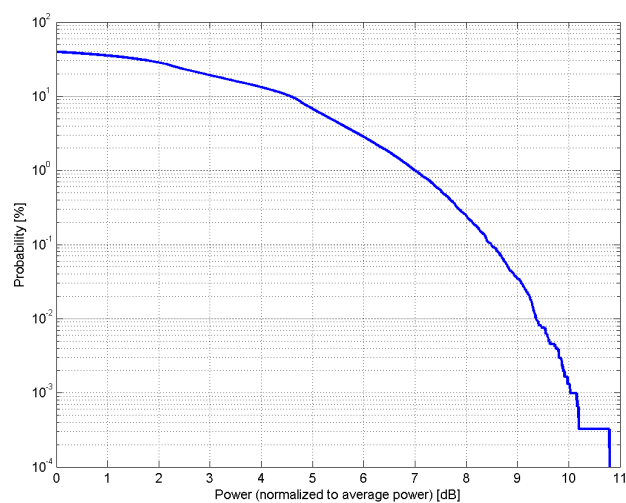


Time Domain

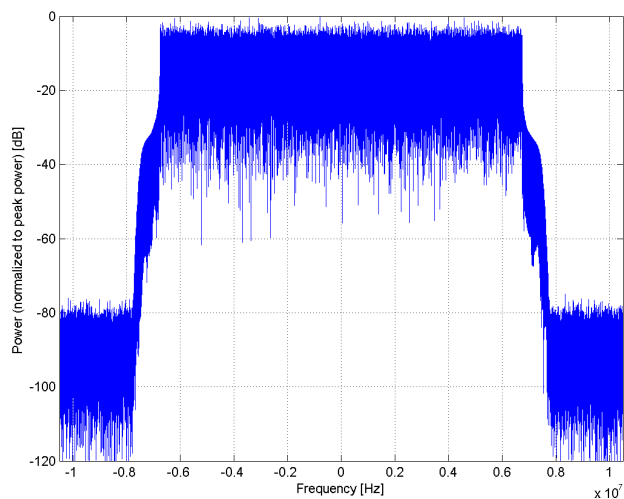
Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10510-AAE
PAR: ¹	8.49 dB
MIF: ²	-3.43 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 76, E-UTRA/FDD (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Frequency Band:	
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 75 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

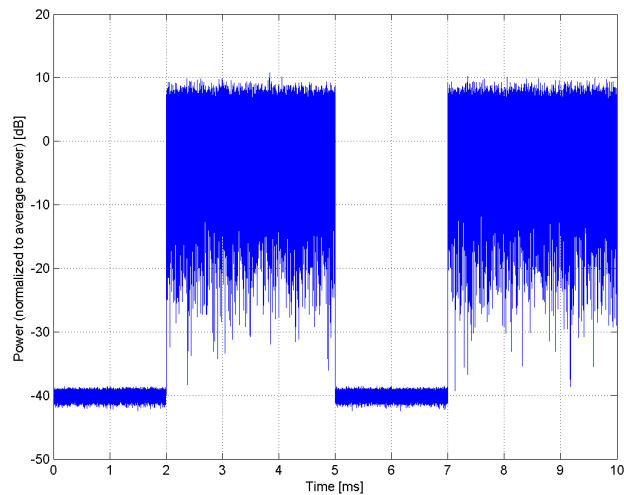
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

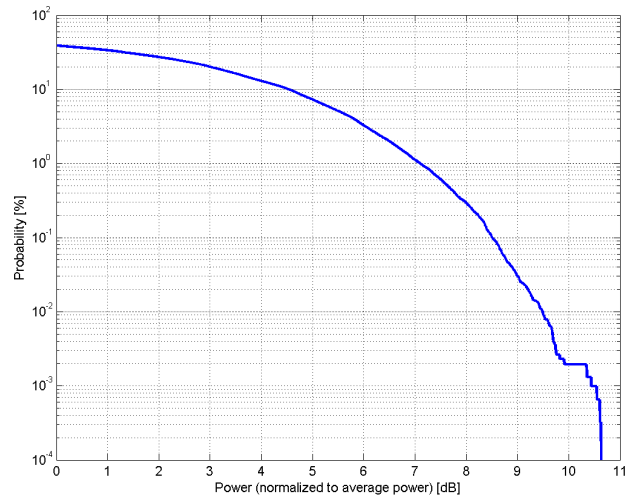


Time Domain

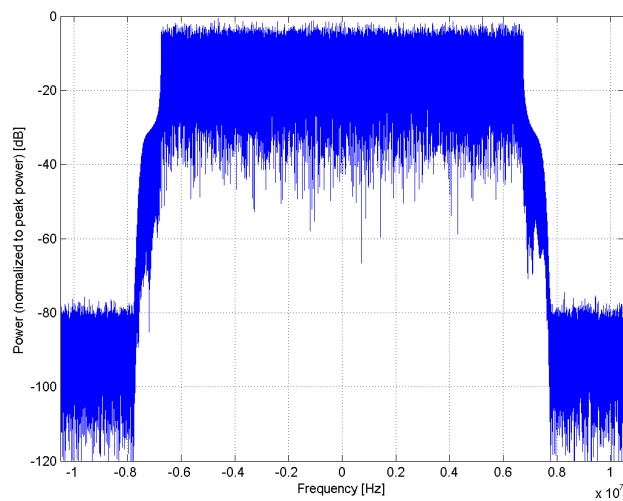
Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10511-AAE
PAR: ¹	8.51 dB
MIF: ²	-3.45 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 76, E-UTRA/FDD (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Frequency Band:	
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 75 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

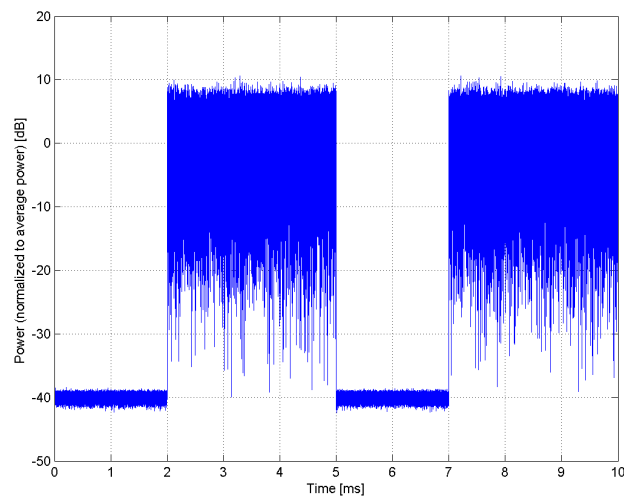
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

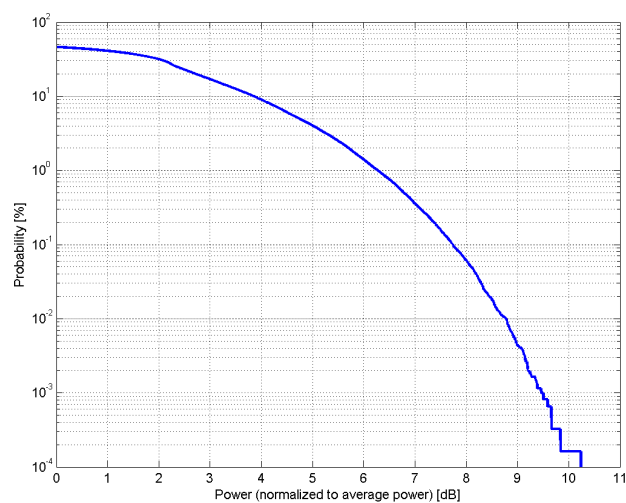


Time Domain

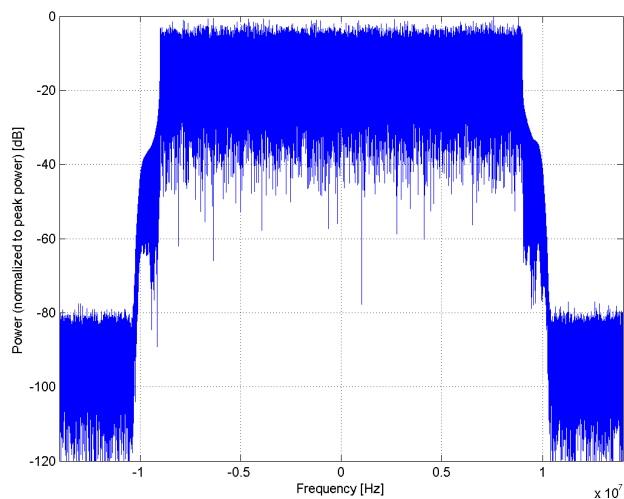
Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10512-AAF
PAR: ¹	7.74 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
Frequency Band:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 46, E-UTRA/FDD (5150.0 - 5925.0 MHz) Band 47, E-UTRA/TDD (5855.0 - 5925.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 49, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 76, E-UTRA/FDD (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 100 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

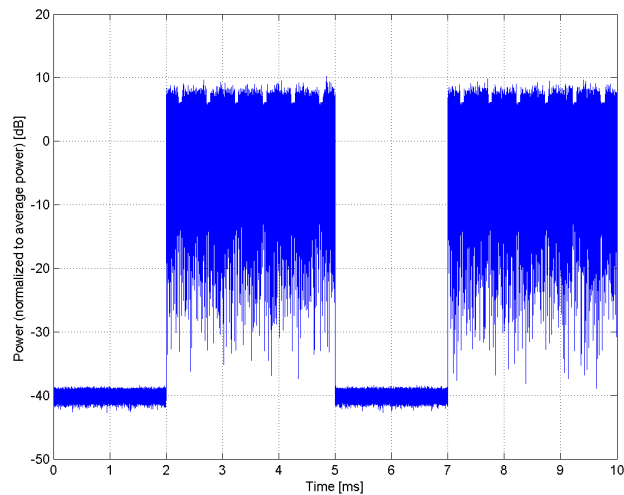
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



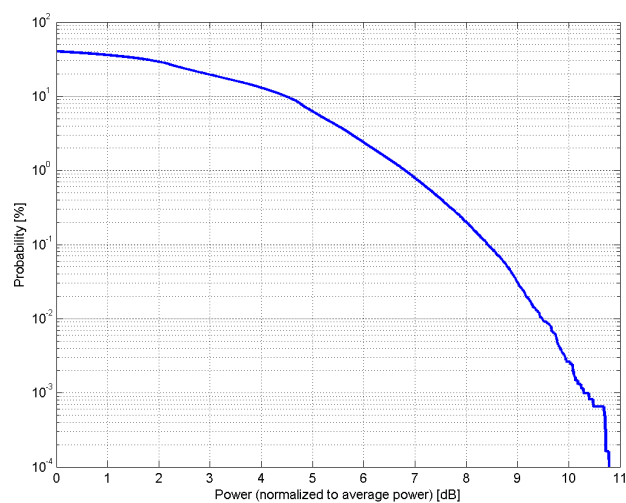
Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

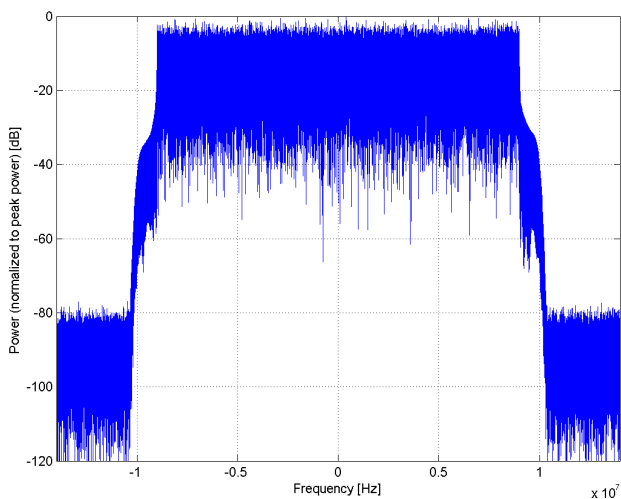
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10513-AAF
PAR: ¹	8.42 dB
MIF: ²	-3.42 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 46, E-UTRA/FDD (5150.0 - 5925.0 MHz) Band 47, E-UTRA/TDD (5855.0 - 5925.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 49, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 76, E-UTRA/FDD (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Frequency Band:	
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 100 Start Number of RB: 0 Data Type: PN9fix 20.0 MHz
Bandwidth:	
Integration Time:	10.0 ms

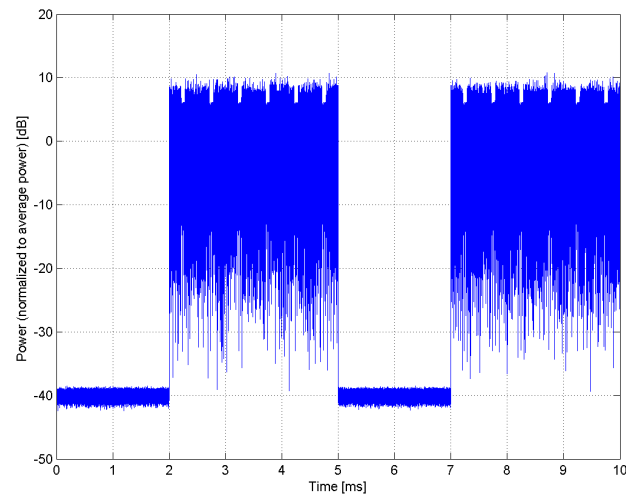
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



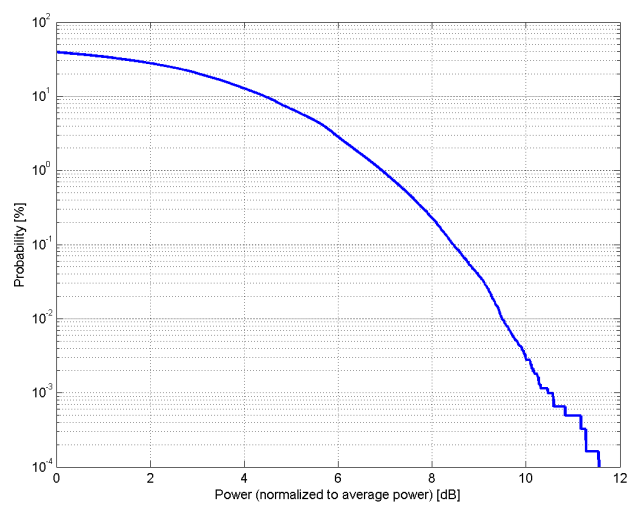
Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

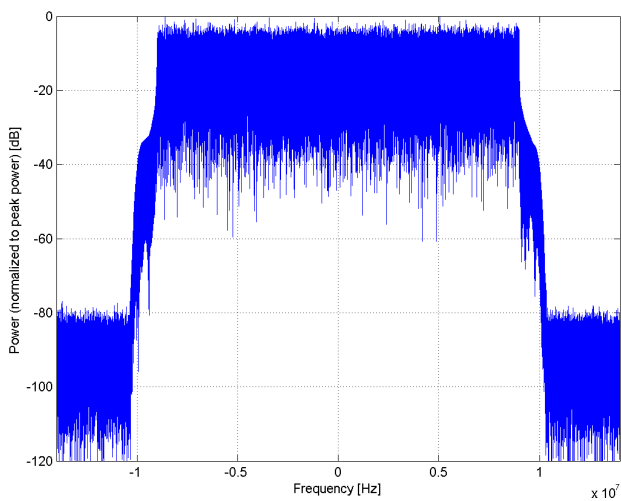
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10514-AAF
PAR: ¹	8.45 dB
MIF: ²	-3.42 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz) Band 46, E-UTRA/FDD (5150.0 - 5925.0 MHz) Band 47, E-UTRA/TDD (5855.0 - 5925.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 49, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 76, E-UTRA/FDD (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Frequency Band:	
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 100 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

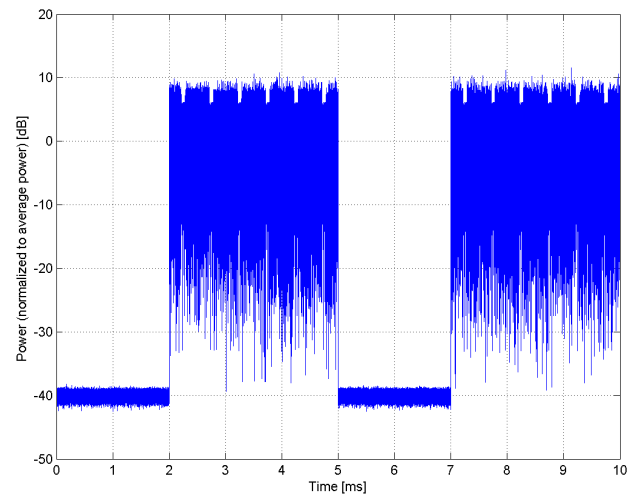
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

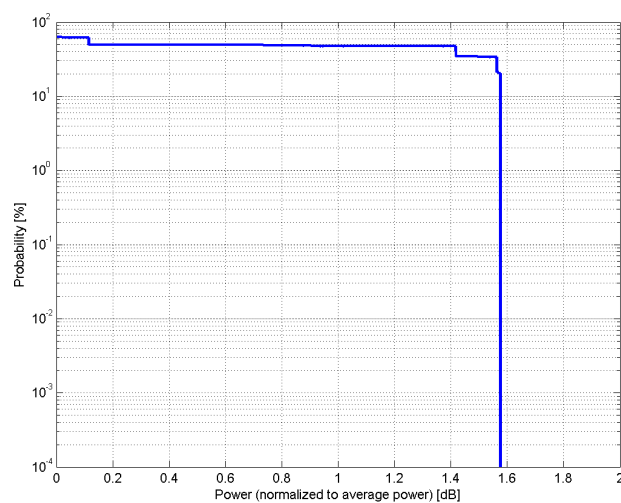
Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10515-AAA

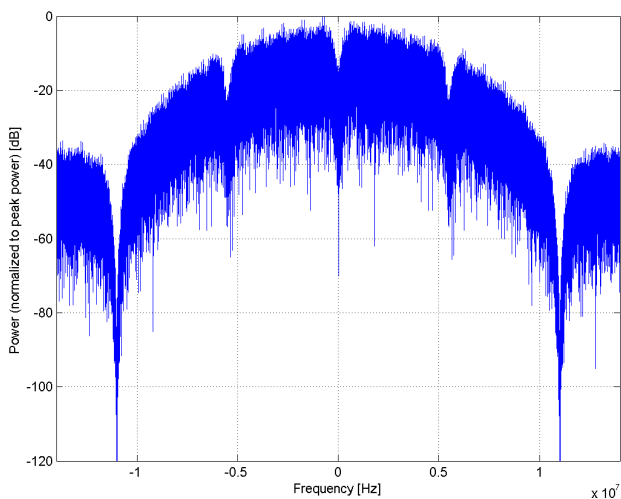
PAR: ¹ **1.58 dB**
MIF: ² **-12.56 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 2Mbps
Burst on time: 4288us
Bandwidth: 20.0 MHz
Integration Time: 4.3 ms

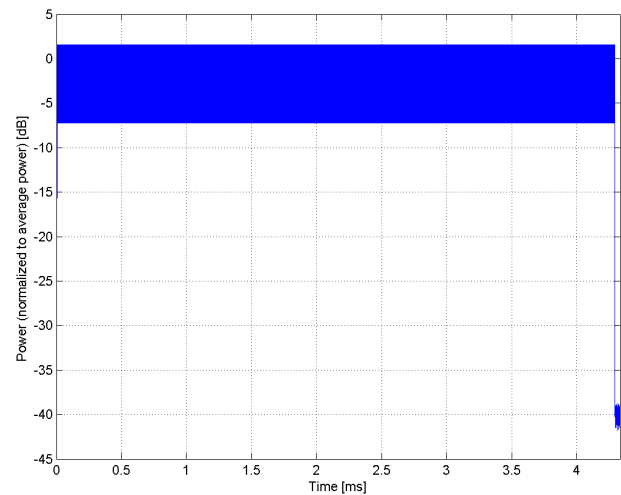
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

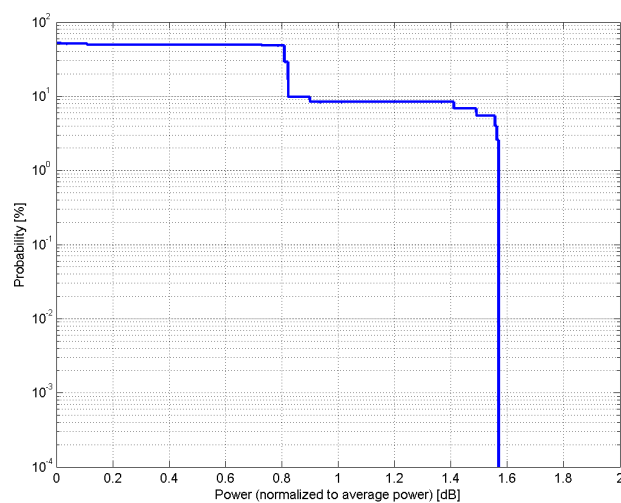
Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10516-AAA

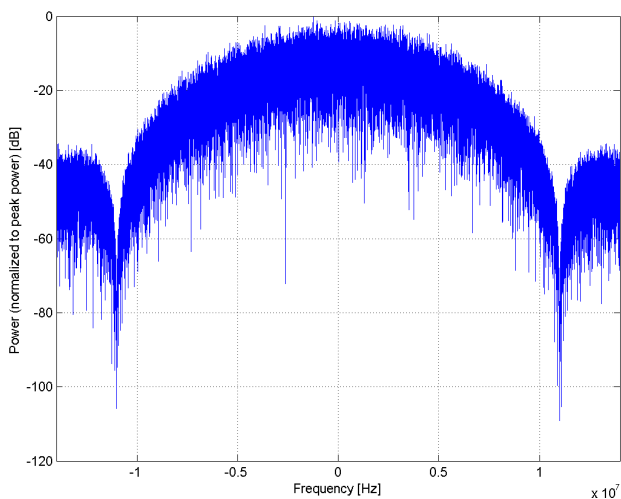
PAR: ¹ **1.57 dB**
MIF: ² **-12.52 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 5.5Mbps
Burst on time: 1681us
Bandwidth: 20.0 MHz
Integration Time: 1.7 ms

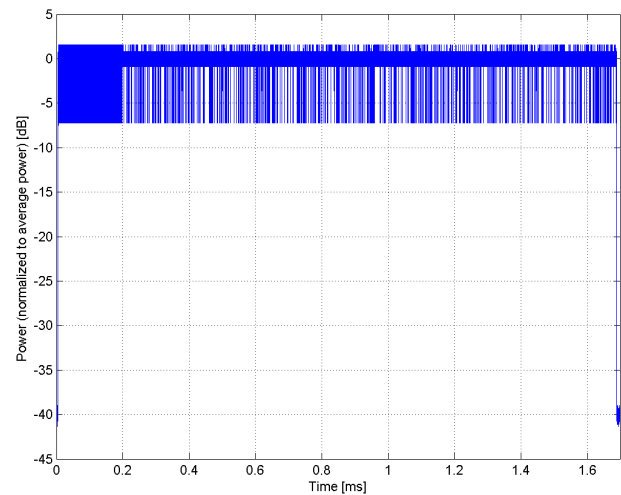
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

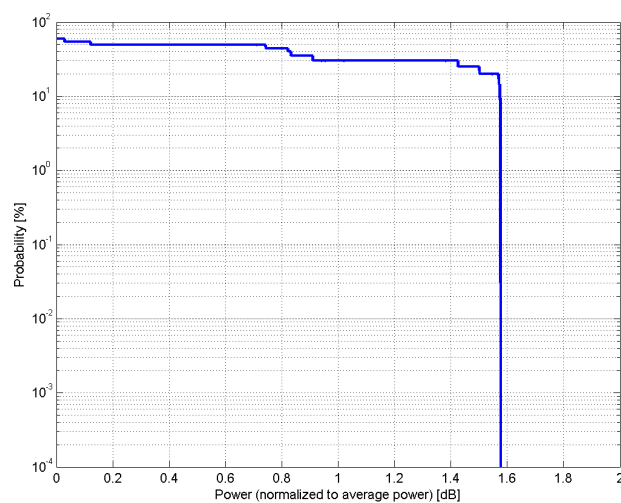
Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10517-AAA

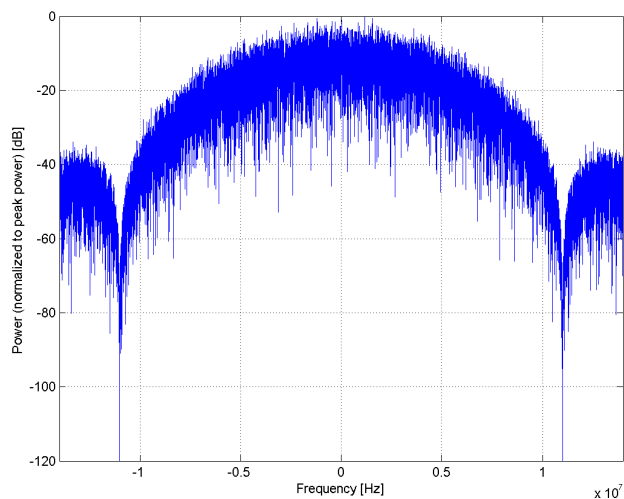
PAR: ¹ **1.58 dB**
MIF: ² **-13.24 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 11Mbps
Burst on time: 936us
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

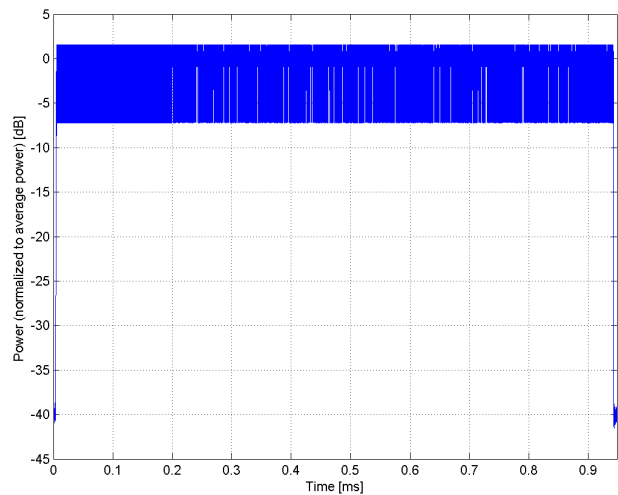
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)

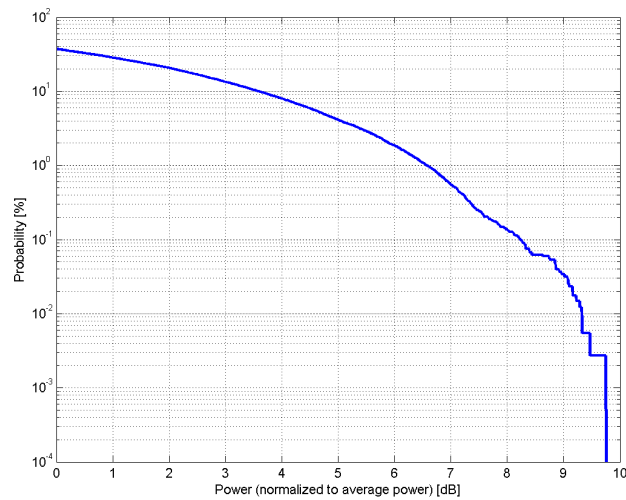
Group: WLAN
UID: 10518-AAB

PAR: ¹ 8.23 dB
MIF: ² -15.39 dB

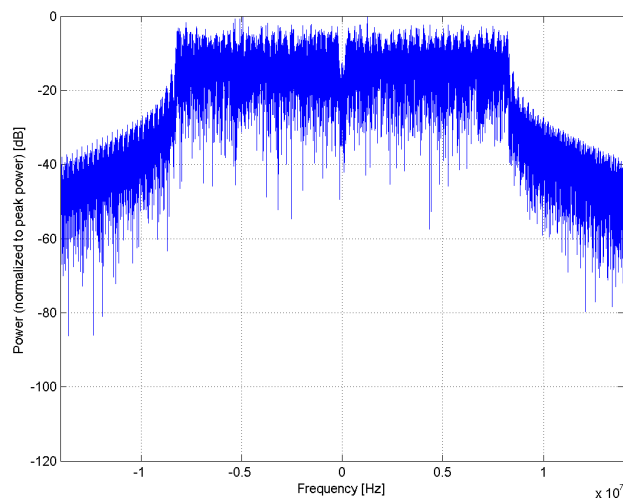
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Random amplitude modulation
Category: BPSK
Modulation: WLAN 5GHz (4915.0 - 5825.0 MHz)
Frequency Band: U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 9Mbps
Burst on time: 912us
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

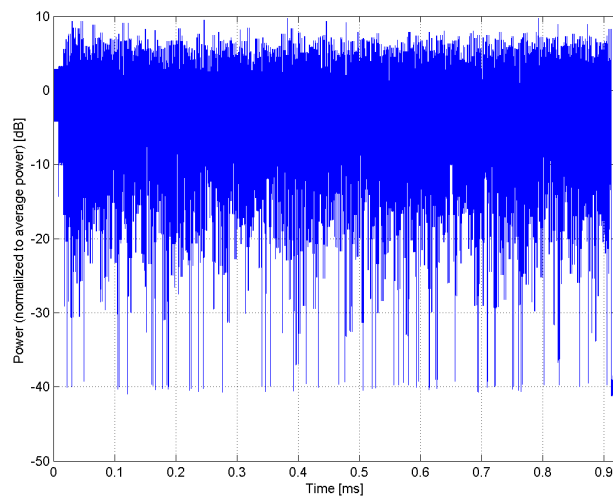
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10519-AAB

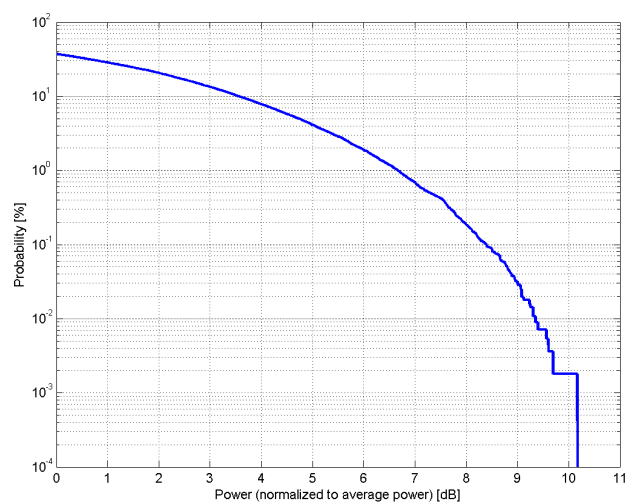
PAR: ¹ **8.39 dB**
MIF: ² **-16.70 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

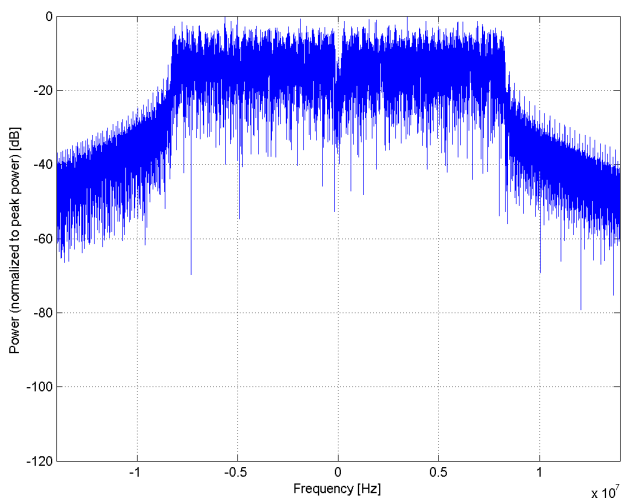
Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 12Mbps

Bandwidth: Burst on time: 692us
20.0 MHz
Integration Time: 0.7 ms

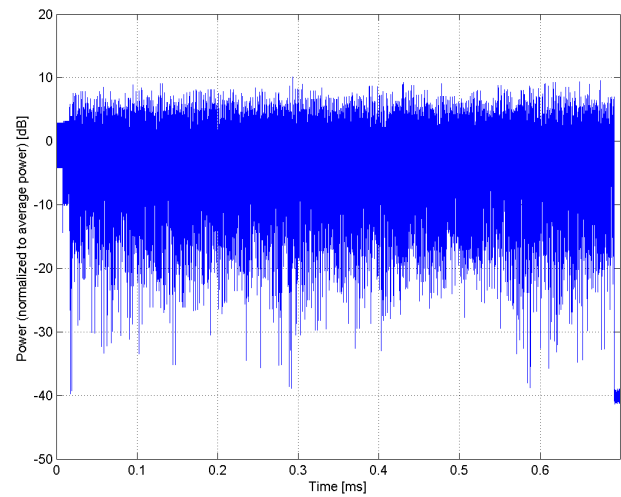
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10520-AAB

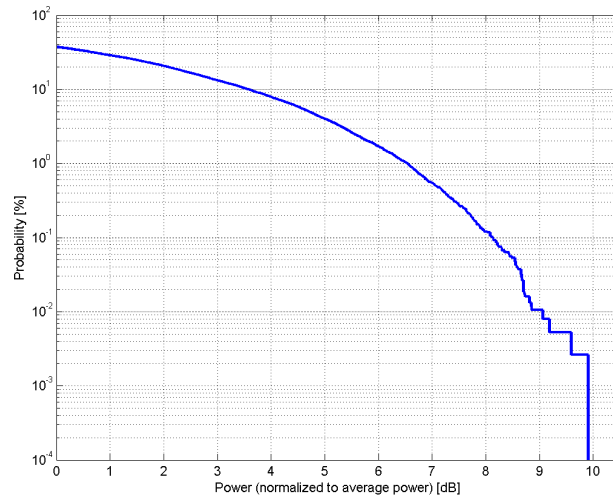
PAR: ¹ **8.12 dB**
MIF: ² **-18.76 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

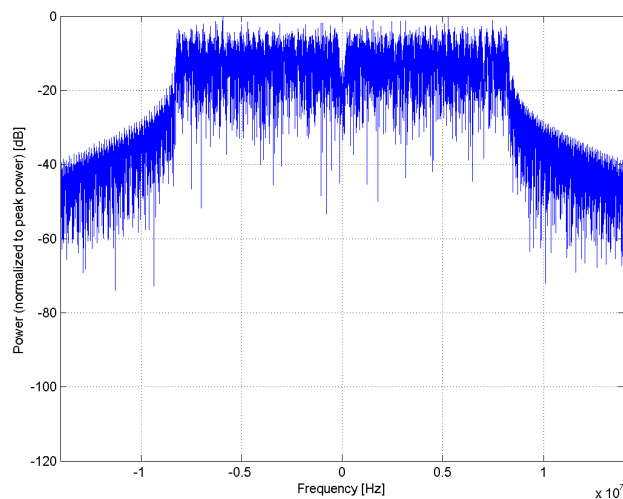
Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 18Mbps

Bandwidth: Burst on time: 468us
20.0 MHz
Integration Time: 0.5 ms

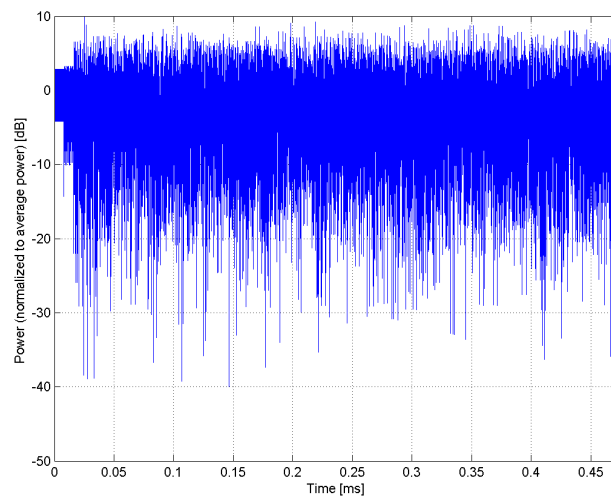
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10521-AAB

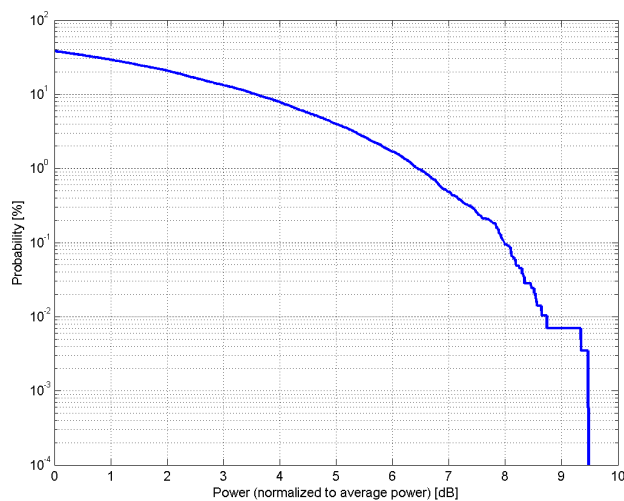
PAR: ¹ **7.97 dB**
MIF: ² **-23.13 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

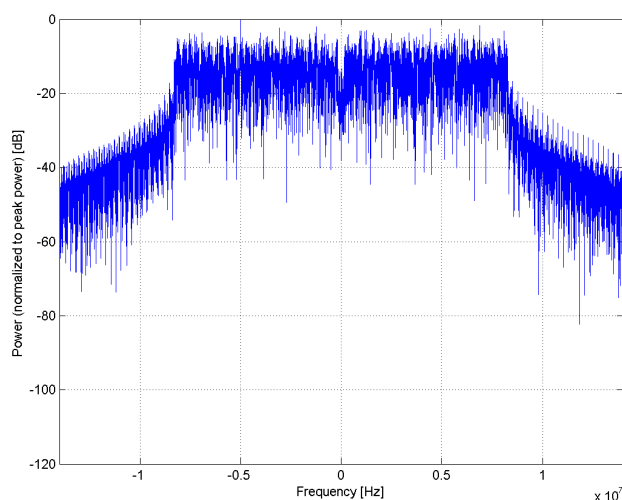
Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 24Mbps

Bandwidth: Burst on time: 356us
20.0 MHz
Integration Time: 0.4 ms

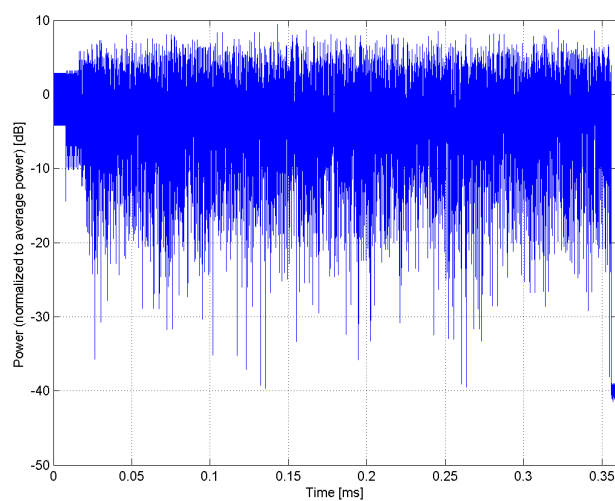
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10522-AAB

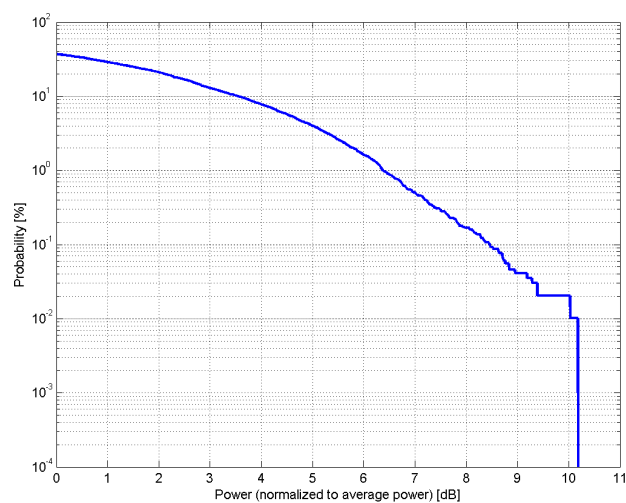
PAR: ¹ **8.45 dB**
MIF: ² **-22.02 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

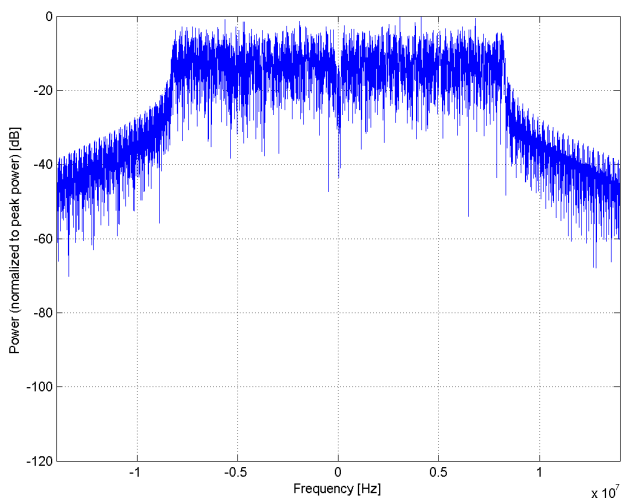
Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 36Mbps

Bandwidth: Burst on time: 244us
20.0 MHz
Integration Time: 0.2 ms

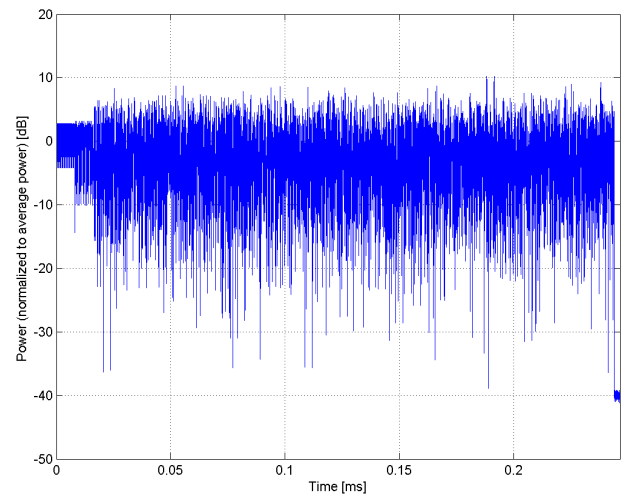
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



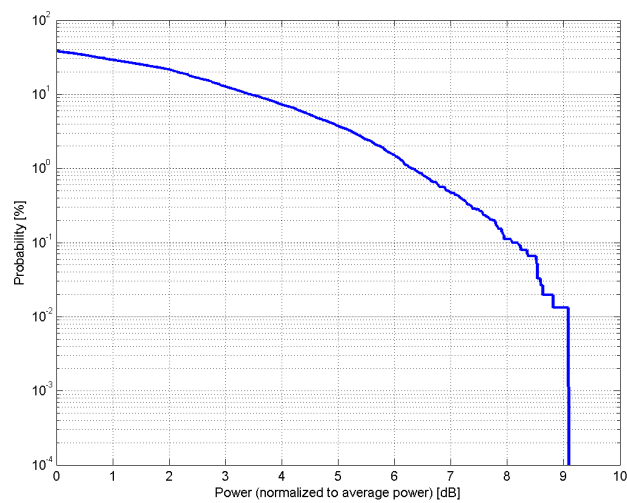
Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

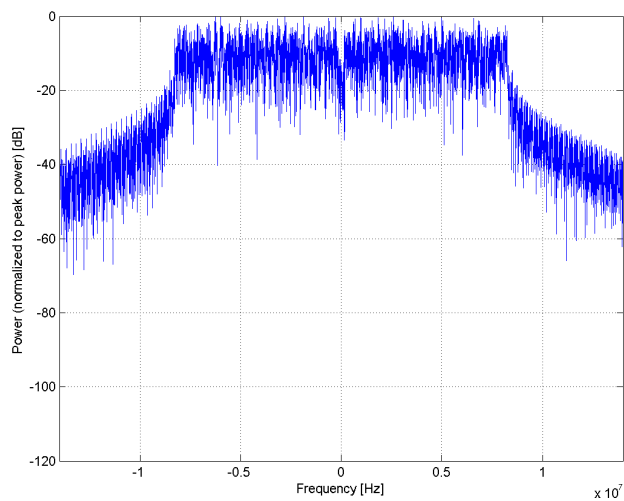
Name:	IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10523-AAB
PAR: ¹	8.08 dB
MIF: ²	-24.22 dB
Standard Reference:	IEEE 802.11-2012
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	64-QAM
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99%
	PSDU length: 1000 bytes
	Data Rate: 48Mbps
	Burst on time: 188us
Bandwidth:	20.0 MHz
Integration Time:	0.2 ms

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

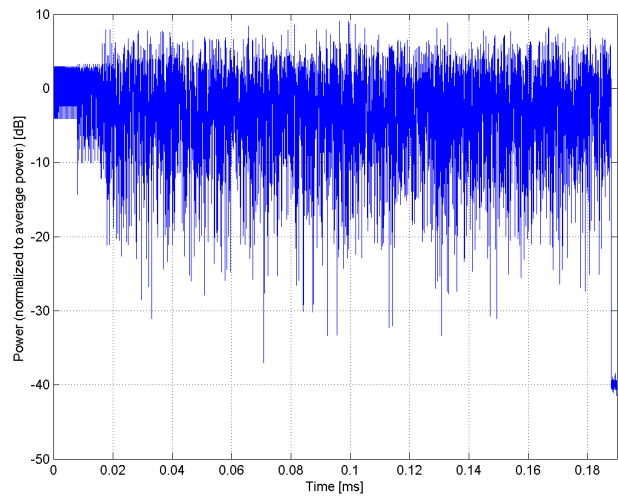
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10524-AAB

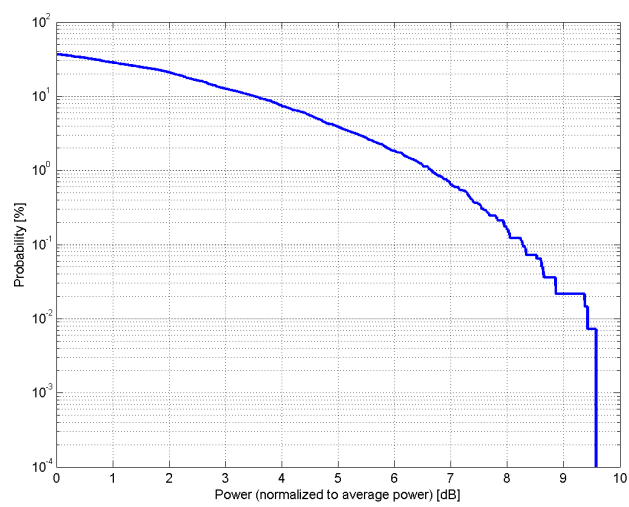
PAR: ¹ **8.27 dB**
MIF: ² **-29.35 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

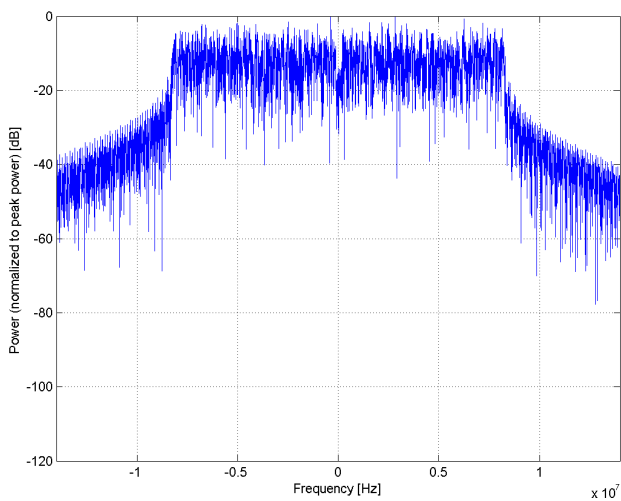
Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 54Mbps

Bandwidth: Burst on time: 172us
20.0 MHz
Integration Time: 0.2 ms

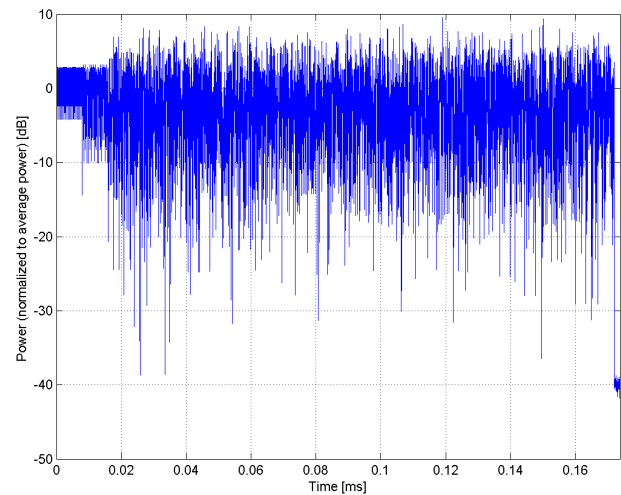
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)**

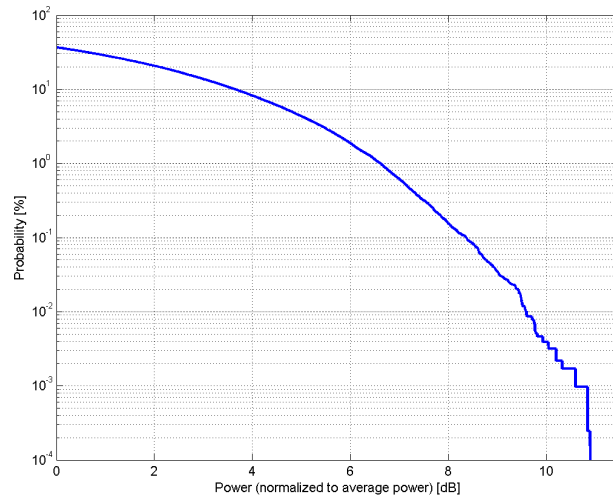
Group: WLAN
UID: 10525-AAB

PAR: ¹ **8.36 dB**
MIF: ² **-12.23 dB**

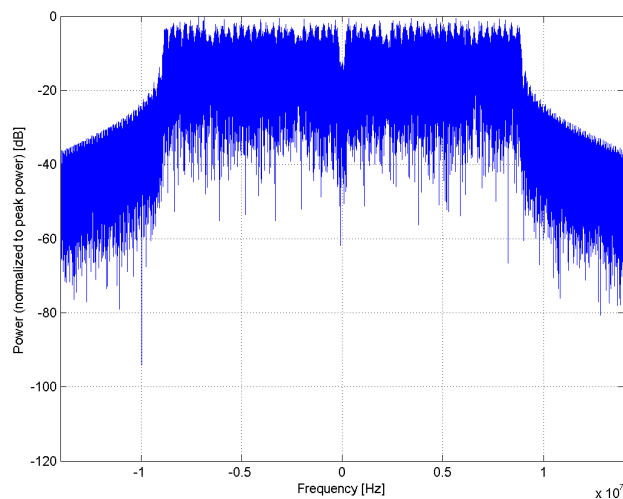
Standard Reference: IEEE 802.11-2013
Category: FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 0
Number of spatial streams: 1
MPDU length: 4096
Bandwidth: 20.0 MHz
Integration Time: 5.1 ms

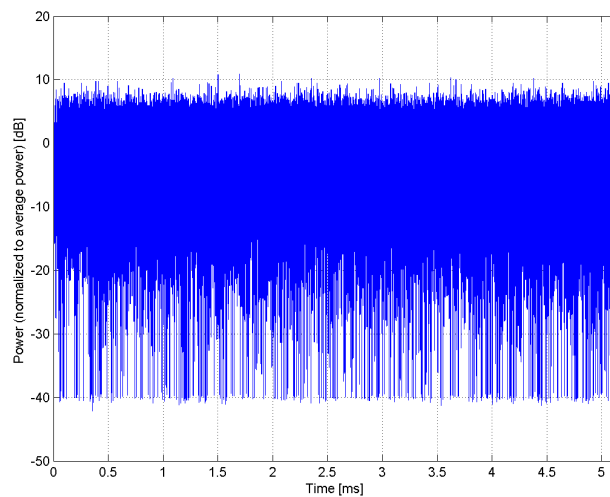
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)

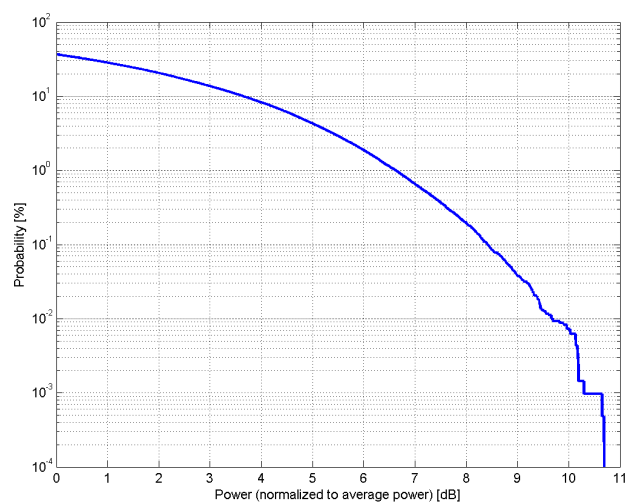
Group: WLAN
UID: 10526-AAB

PAR: ¹ 8.42 dB
MIF: ² -13.77 dB

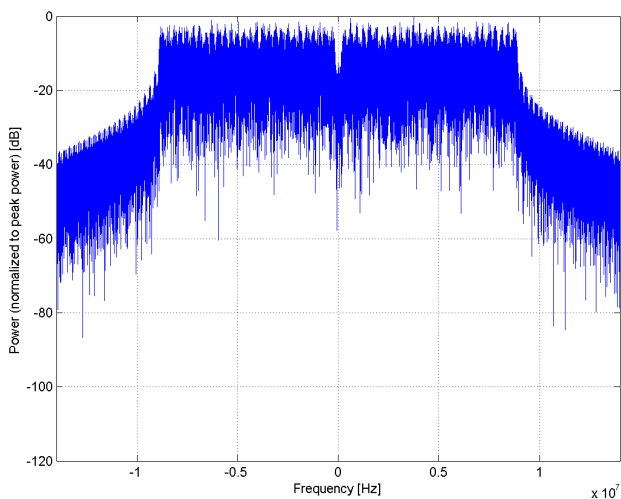
Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 1
Number of spatial streams: 1
MPDU length: 4096
Bandwidth: 20.0 MHz
Integration Time: 2.6 ms

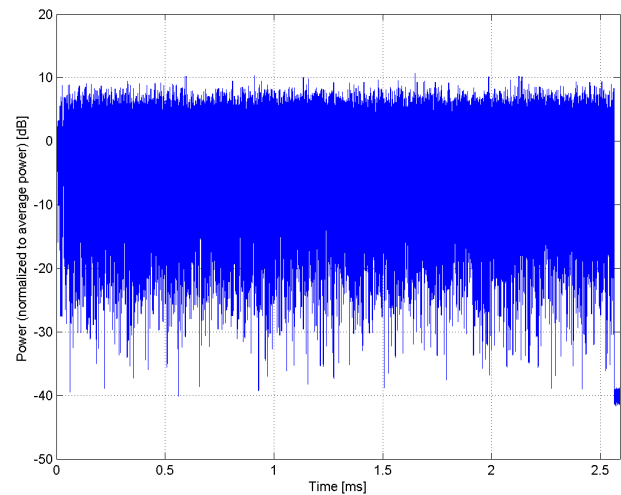
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



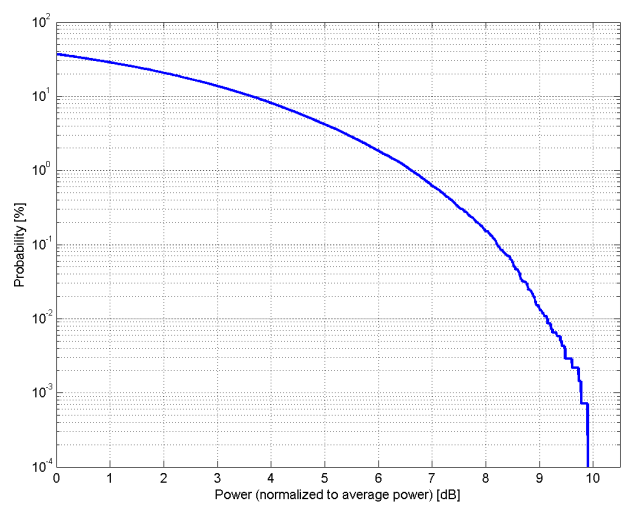
Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

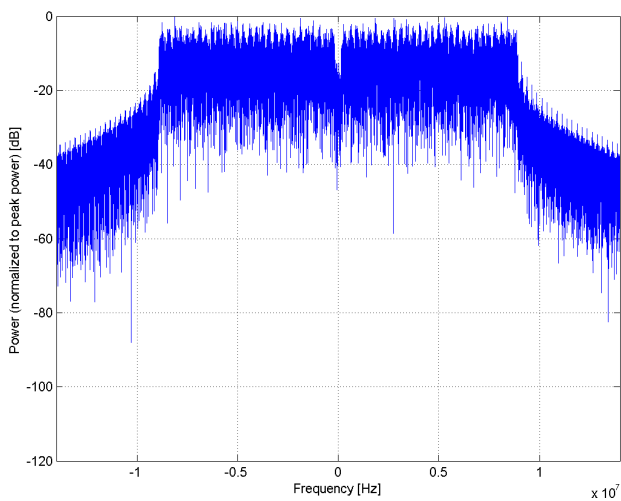
Name:	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)
Group:	WLAN
UID:	10527-AAB
PAR: ¹	8.21 dB
MIF: ²	-14.89 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	QPSK
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz
	Duty cycle: 99%
	MCS: 2
	Number of spatial streams: 1
	MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	1.7 ms

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

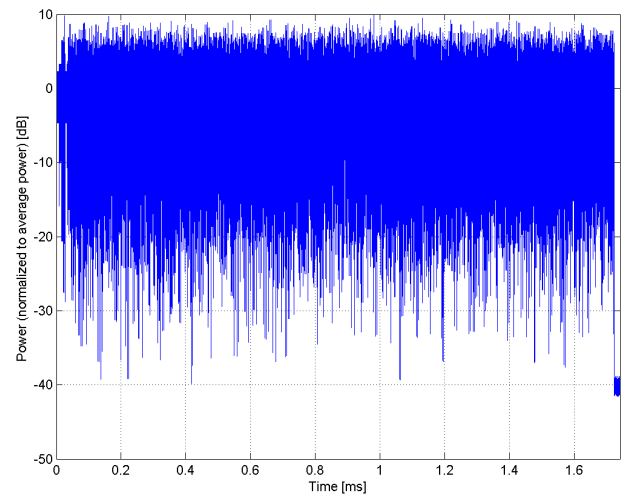
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)**

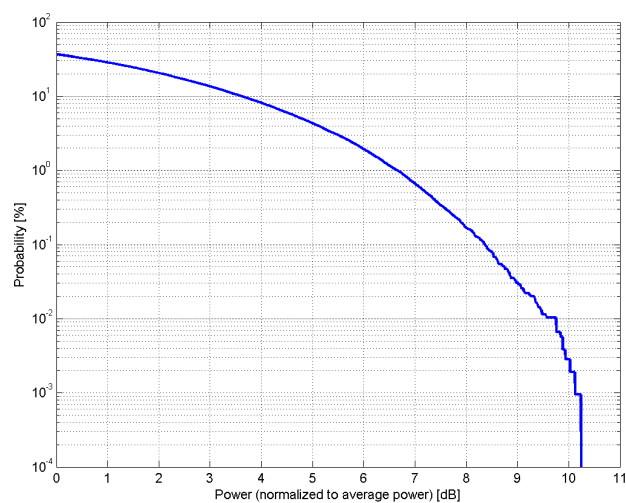
Group: WLAN
UID: 10528-AAB

PAR: ¹ **8.36 dB**
MIF: ² **-15.25 dB**

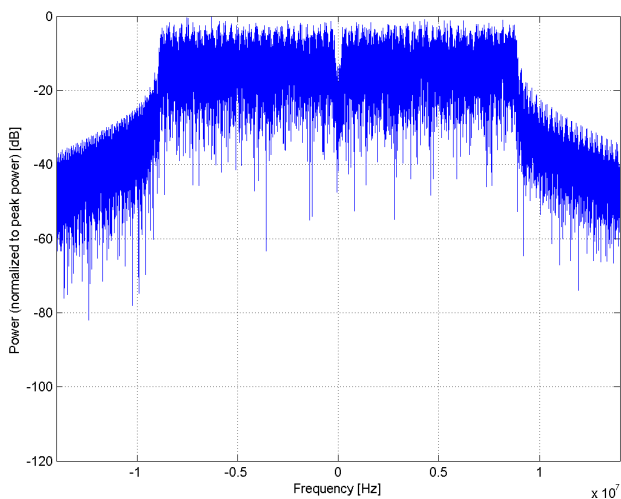
Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 3
Number of spatial streams: 1
MPDU length: 4096
Bandwidth: 20.0 MHz
Integration Time: 1.3 ms

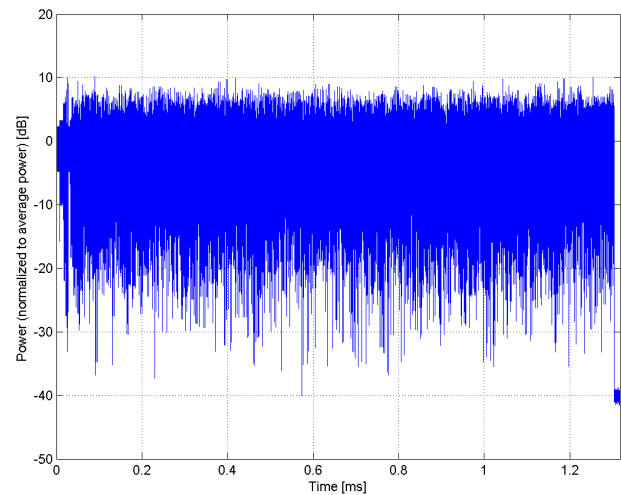
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

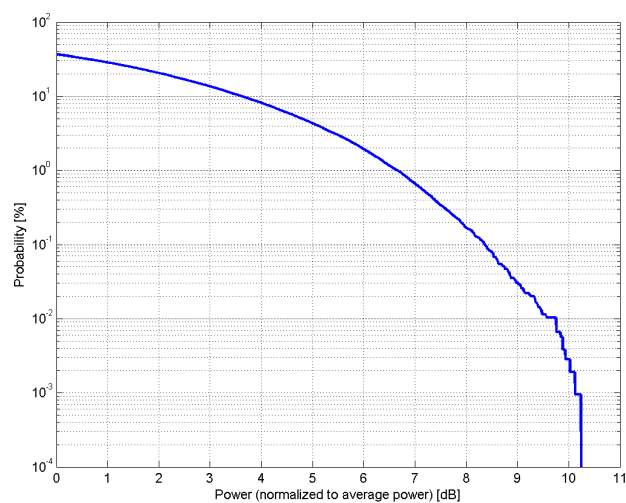


Time Domain

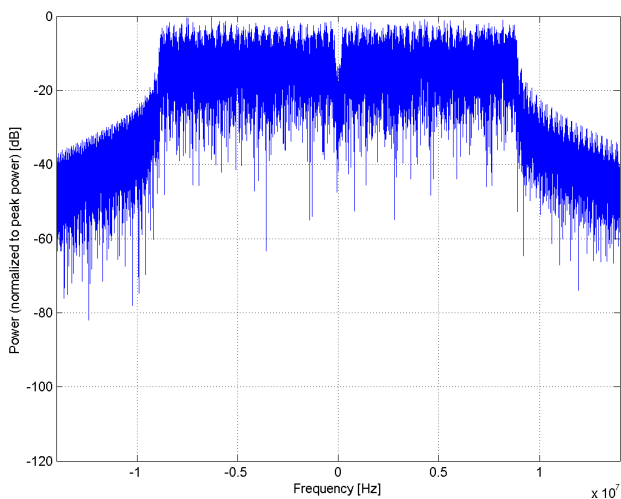
**Calibration Laboratory of
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Name:	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)
Group:	WLAN
UID:	10529-AAB
PAR: ¹	8.36 dB
MIF: ²	-15.25 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	16-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz
	Duty cycle: 99%
	MCS: 4
	Number of spatial streams: 1
	MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	1.3 ms

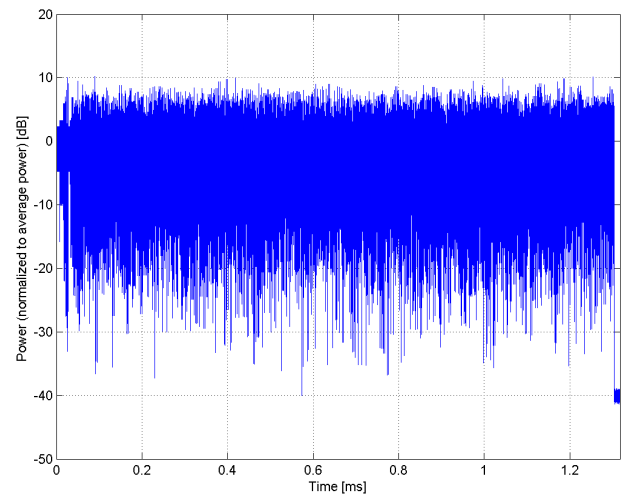
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



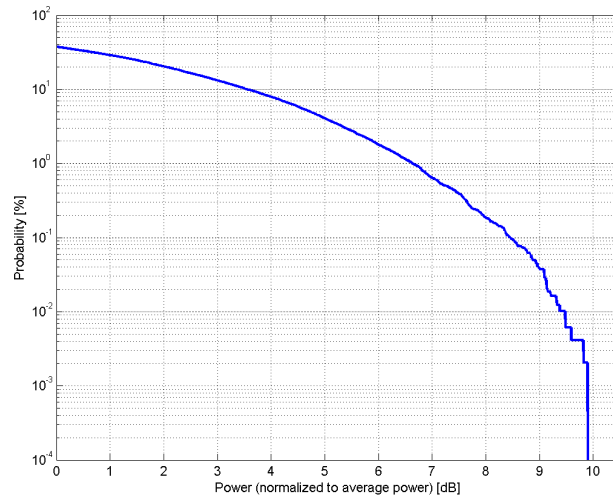
Time Domain

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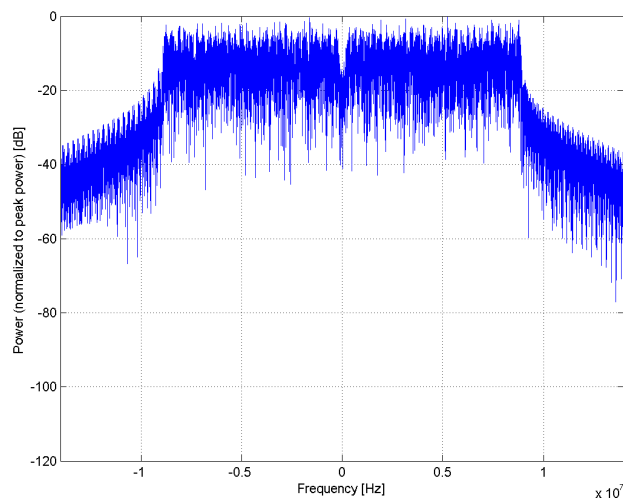
Name:	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)
Group:	WLAN
UID:	10531-AAB
PAR: ¹	8.43 dB
MIF: ²	-18.44 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	64-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz
	Duty cycle: 99%
	MCS: 6
	Number of spatial streams: 1
	MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	0.6 ms

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

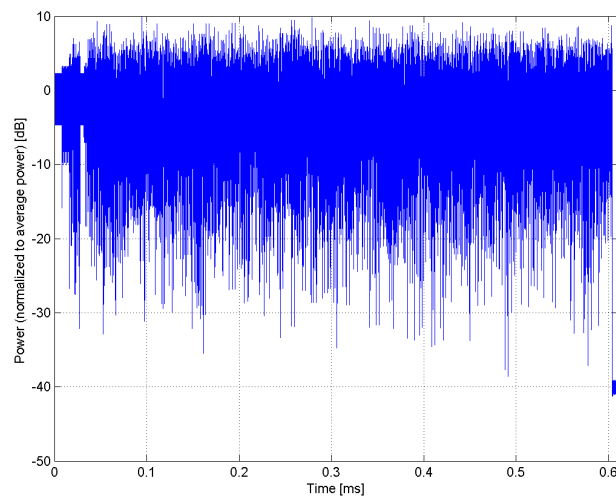
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

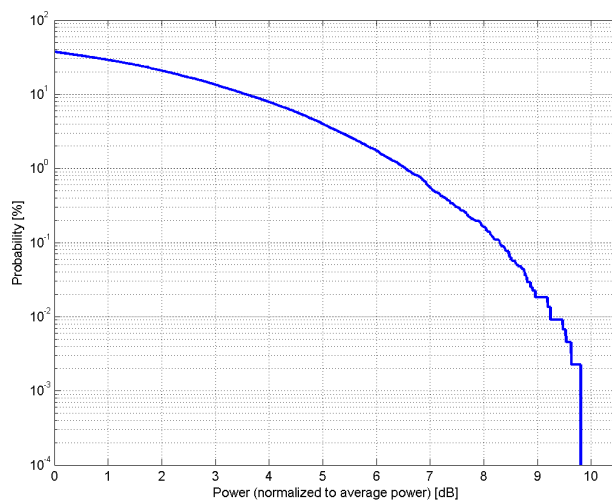


Time Domain

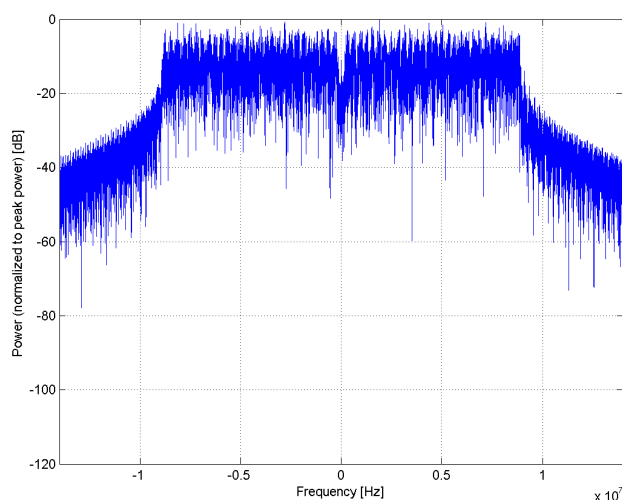
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Name:	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)
Group:	WLAN
UID:	10532-AAB
PAR: ¹	8.29 dB
MIF: ²	-18.59 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	64-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz
	Duty cycle: 99%
	MCS: 7
	Number of spatial streams: 1
	MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	0.6 ms

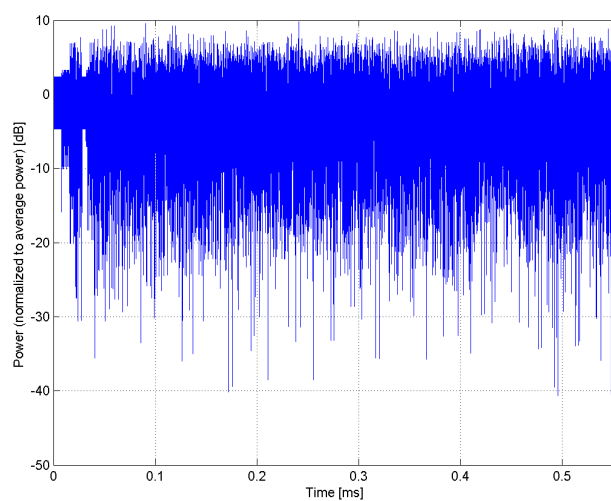
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

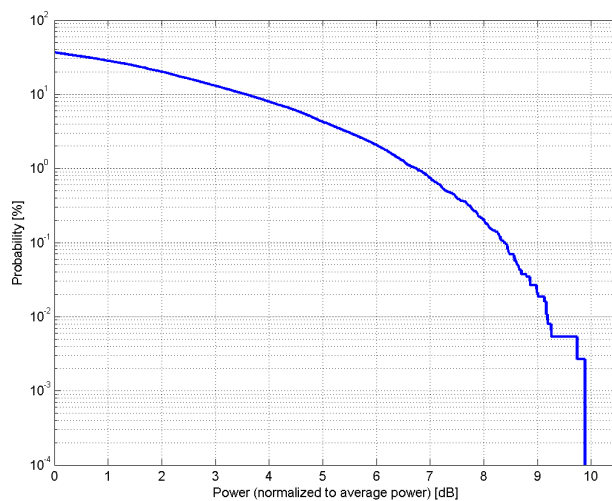


Time Domain

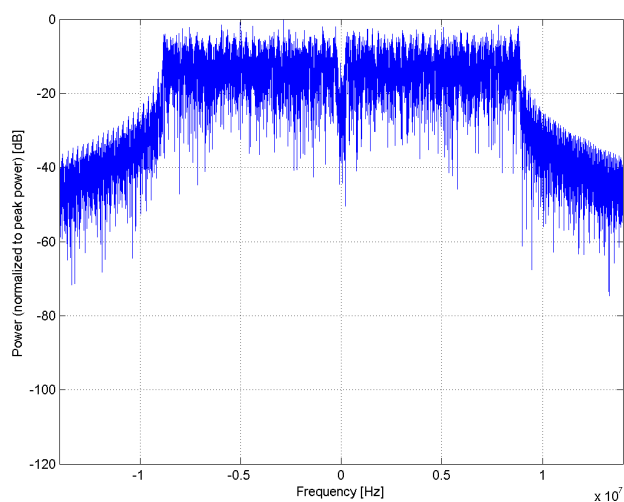
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Name:	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)
Group:	WLAN
UID:	10533-AAB
PAR: ¹	8.38 dB
MIF: ²	-20.10 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	256-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz
	Duty cycle: 99%
	MCS: 8
	Number of spatial streams: 1
	MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	0.5 ms

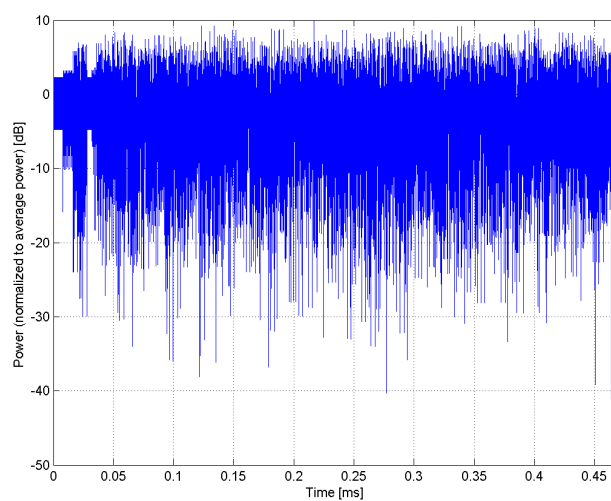
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



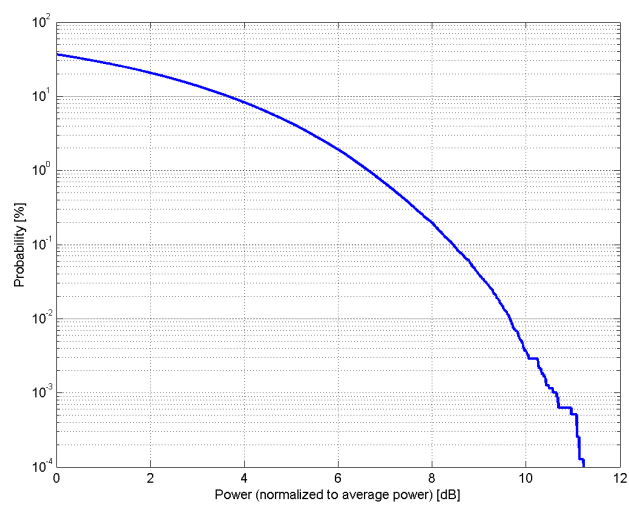
Time Domain

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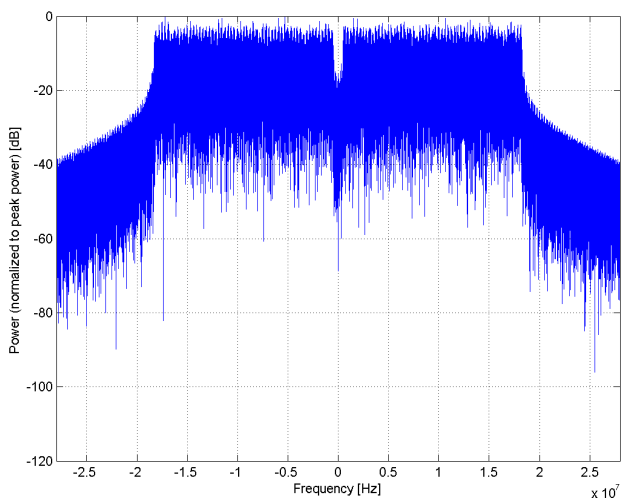
Name:	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)
Group:	WLAN
UID:	10534-AAB
PAR: ¹	8.45 dB
MIF: ²	-11.92 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	BPSK
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz
	Duty cycle: 99%
	MCS: 0
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	4.9 ms

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

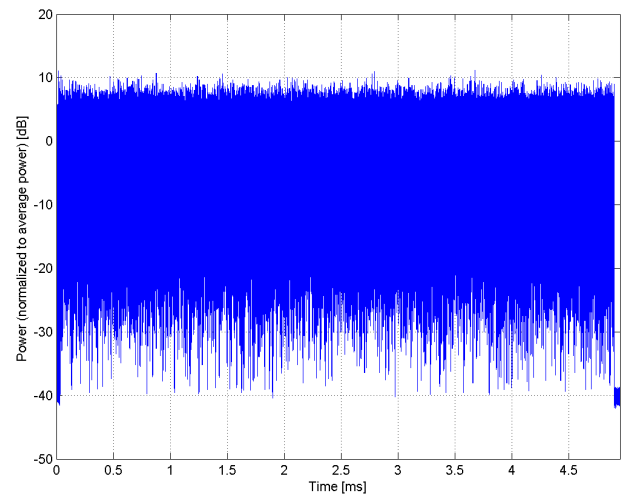
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)**

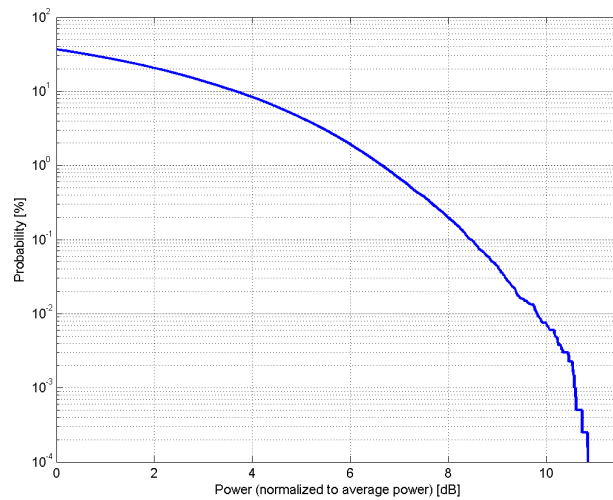
Group: WLAN
UID: 10535-AAB

PAR: ¹ **8.45 dB**
MIF: ² **-13.12 dB**

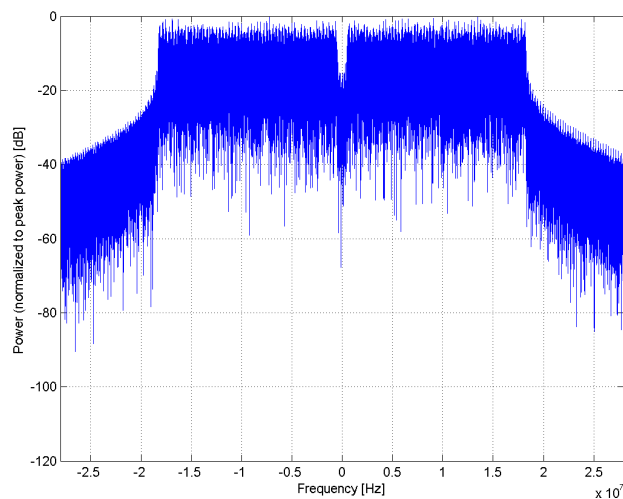
Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 1
Number of spatial streams: 1
MPDU length: 8192
Bandwidth: 40.0 MHz
Integration Time: 2.5 ms

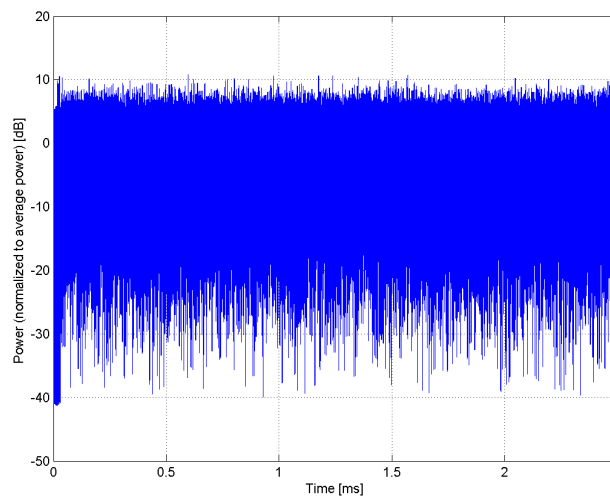
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

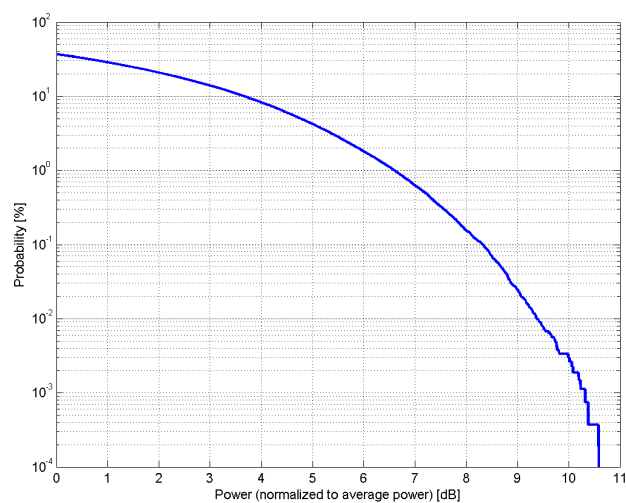


Time Domain

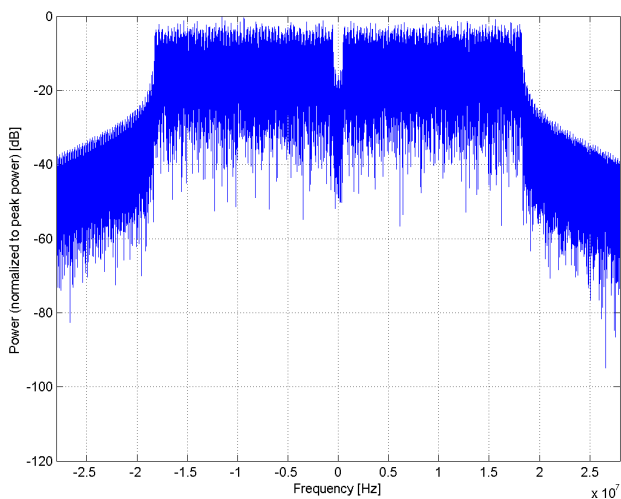
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)
Group:	WLAN
UID:	10536-AAB
PAR: ¹	8.32 dB
MIF: ²	-13.53 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	QPSK
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz
	Duty cycle: 99%
	MCS: 2
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	1.7 ms

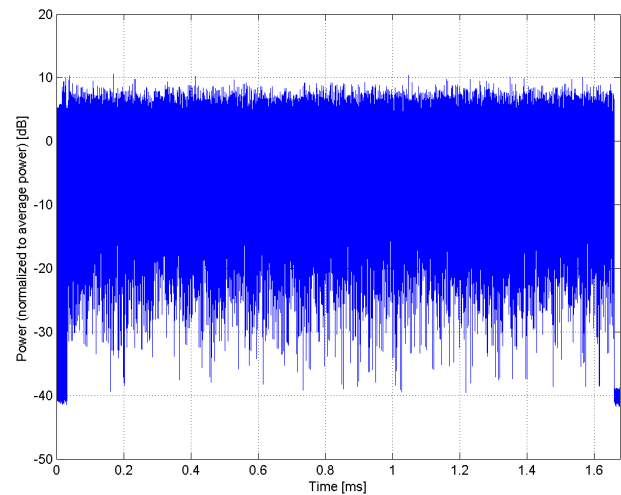
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)**

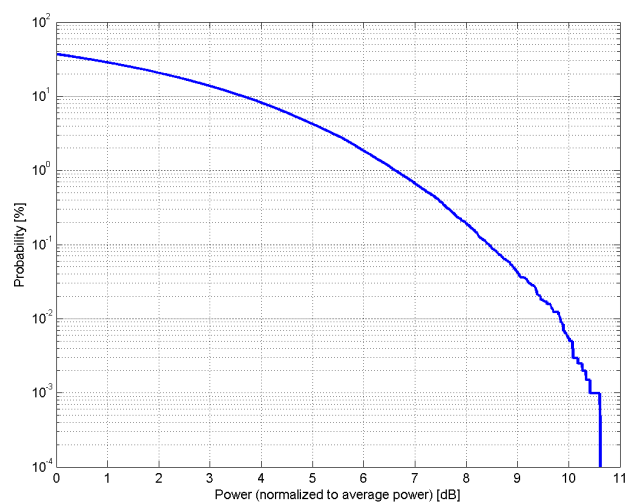
Group: WLAN
UID: 10537-AAB

PAR: ¹ **8.44 dB**
MIF: ² **-13.52 dB**

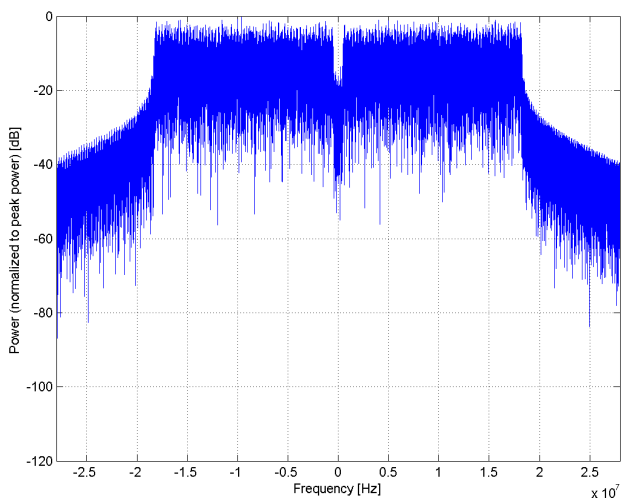
Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 3
Number of spatial streams: 1
MPDU length: 8192
Bandwidth: 40.0 MHz
Integration Time: 1.3 ms

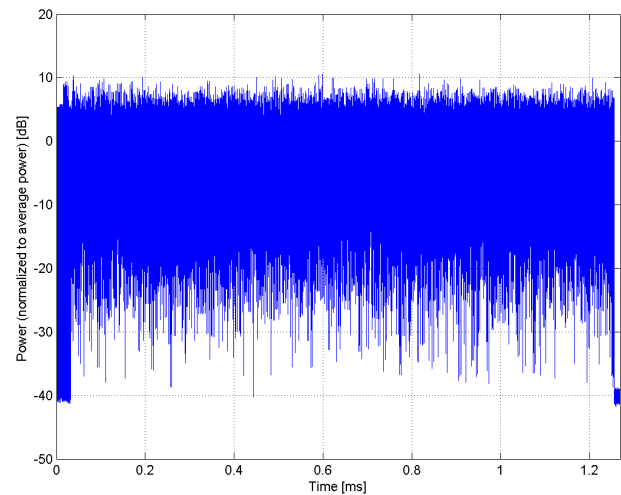
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



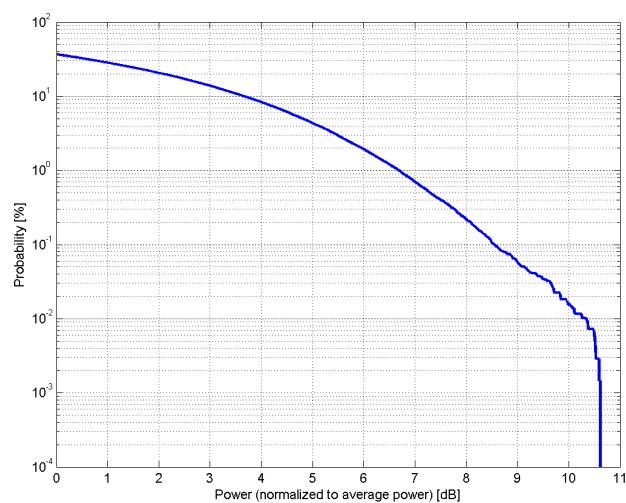
Time Domain

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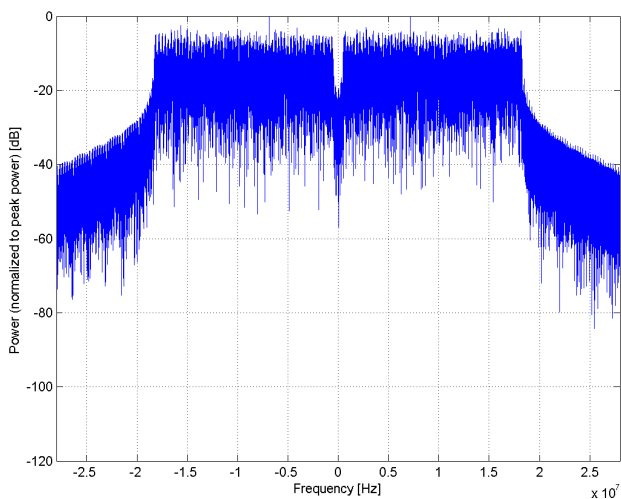
Name:	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)
Group:	WLAN
UID:	10538-AAB
PAR: ¹	8.54 dB
MIF: ²	-14.39 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	16-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz
	Duty cycle: 99%
	MCS: 4
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	0.9 ms

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

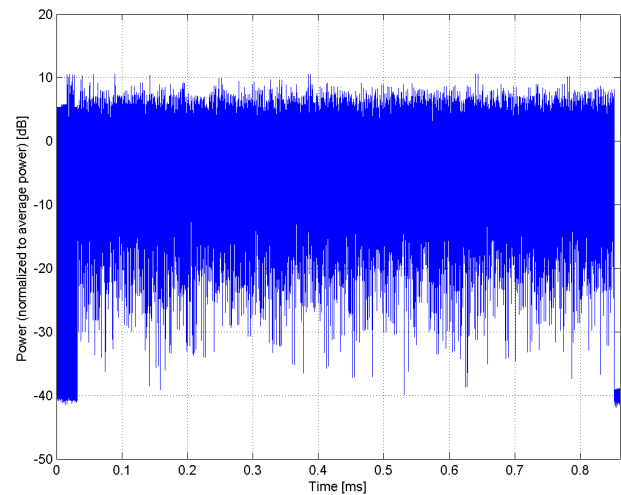
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

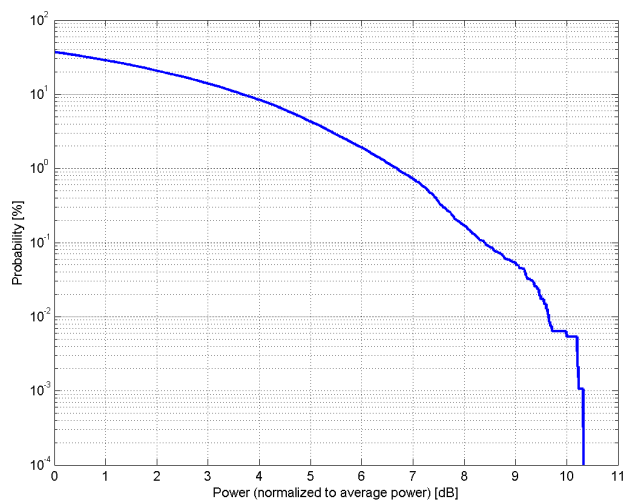


Time Domain

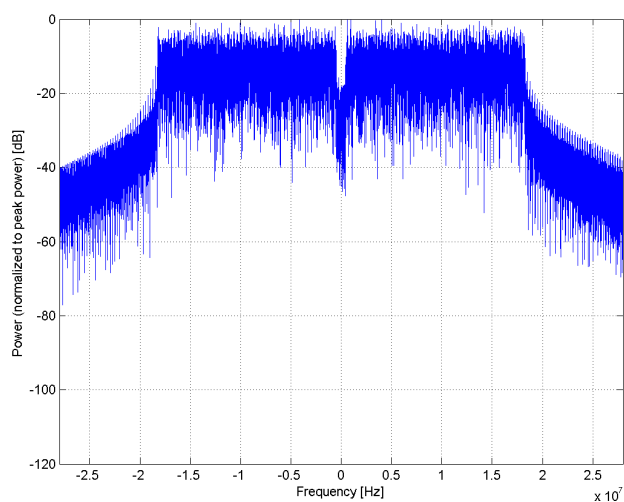
**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)
Group:	WLAN
UID:	10540-AAB
PAR: ¹	8.39 dB
MIF: ²	-15.33 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	64-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz
	Duty cycle: 99%
	MCS: 6
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	0.6 ms

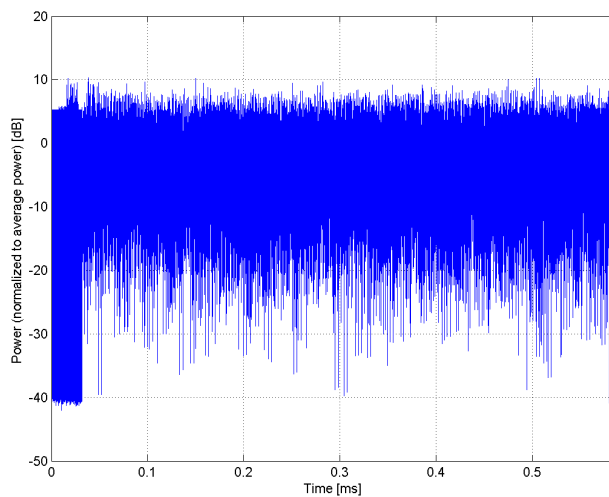
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

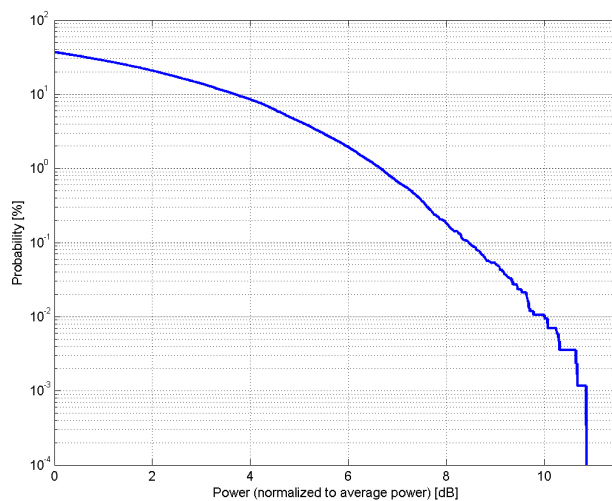


Time Domain

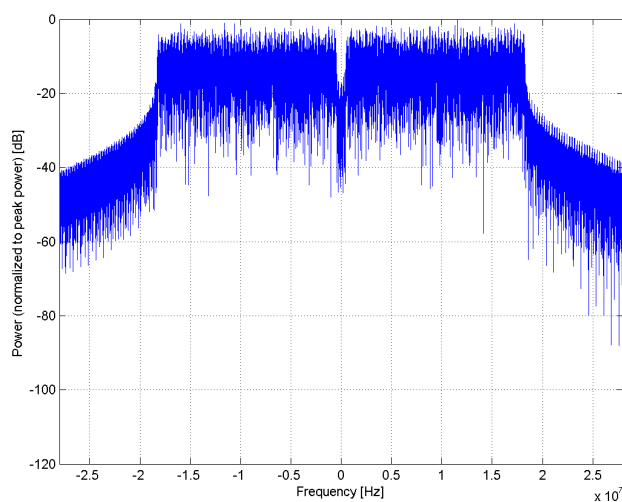
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)
Group:	WLAN
UID:	10541-AAB
PAR: ¹	8.46 dB
MIF: ²	-14.92 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	64-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz
	Duty cycle: 99%
	MCS: 7
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	0.5 ms

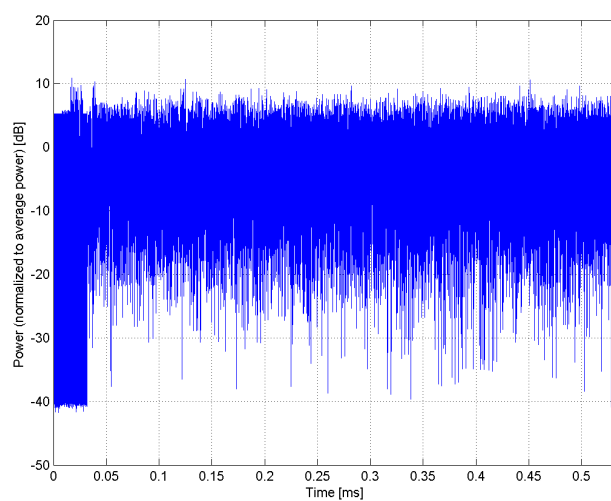
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)**

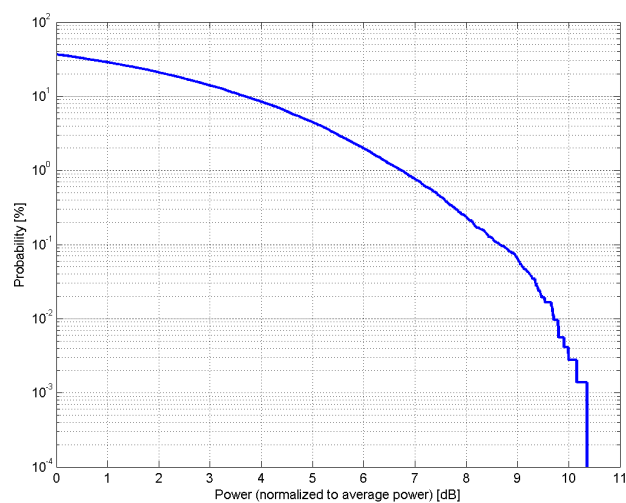
Group: WLAN
UID: 10542-AAB

PAR: ¹ **8.65 dB**
MIF: ² **-14.56 dB**

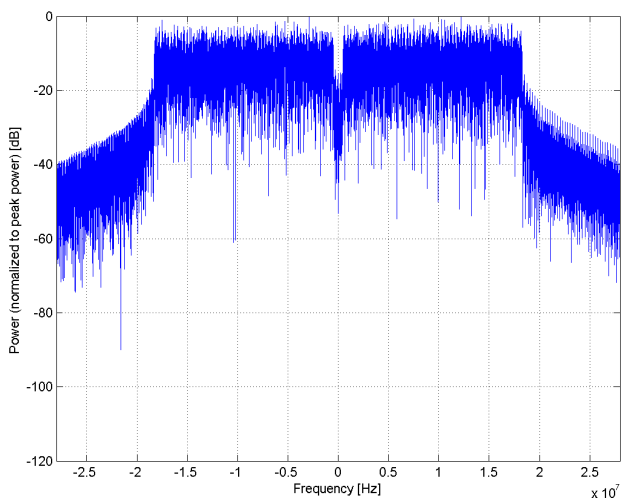
Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 8
Number of spatial streams: 1
MPDU length: 8192
Bandwidth: 40.0 MHz
Integration Time: 0.5 ms

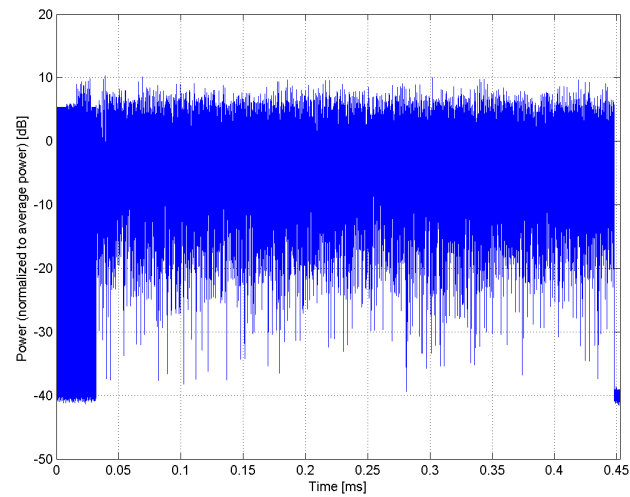
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

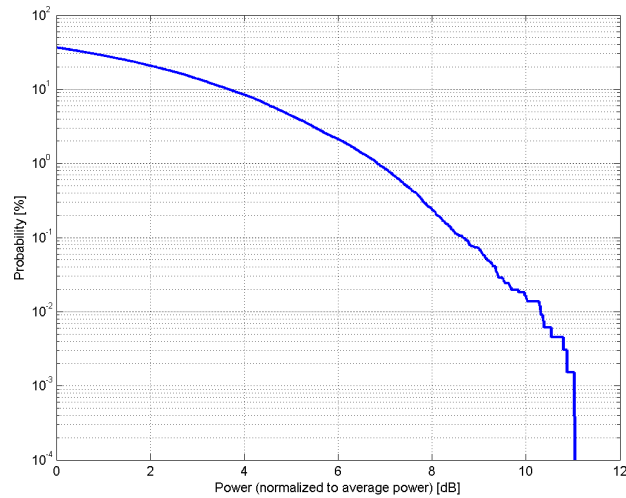


Time Domain

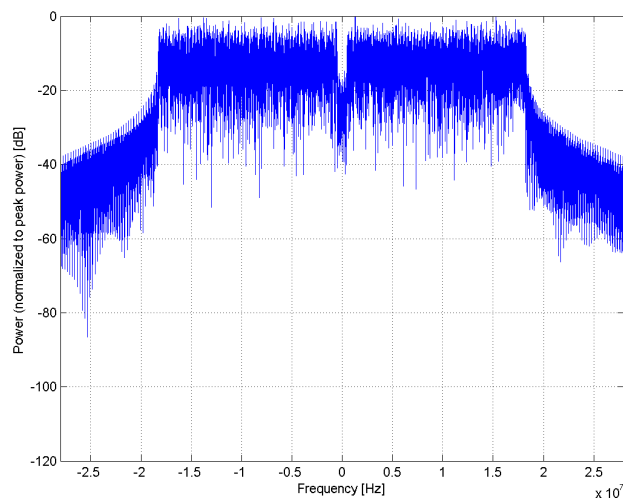
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Name:	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)
Group:	WLAN
UID:	10543-AAB
PAR: ¹	8.65 dB
MIF: ²	-15.76 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 Random amplitude modulation
Modulation:	256-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz Duty cycle: 99% MCS: 9 Number of spatial streams: 1 MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	0.4 ms

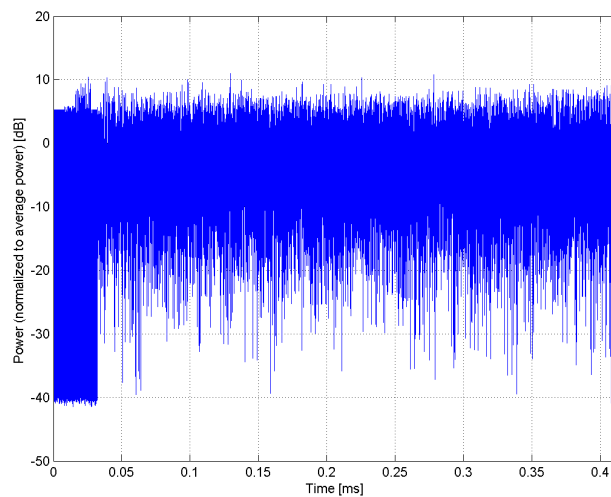
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)**

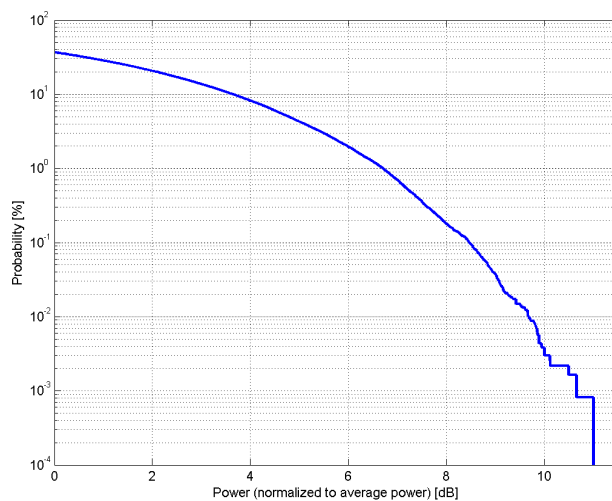
Group: WLAN
UID: 10544-AAB

PAR: ¹ **8.47 dB**
MIF: ² **-13.78 dB**

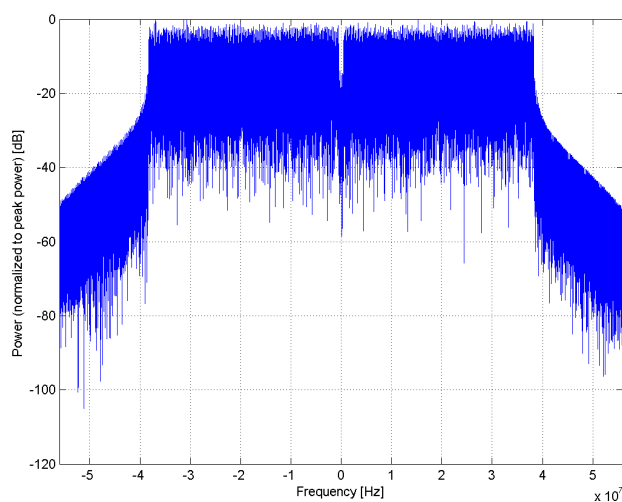
Standard Reference: IEEE 802.11-2013
Category: FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation: Random amplitude modulation
BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 0
Number of spatial streams: 1
MPDU length: 8192
Bandwidth: 80.0 MHz
Integration Time: 2.3 ms

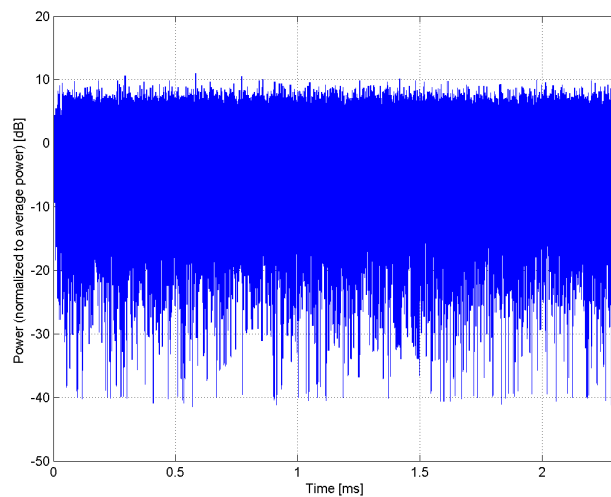
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

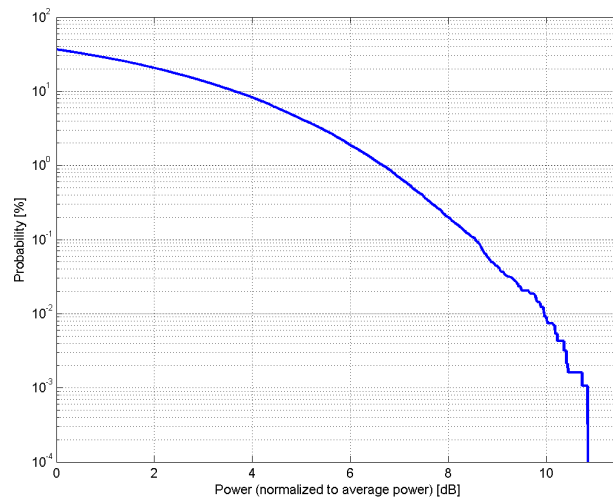


Time Domain

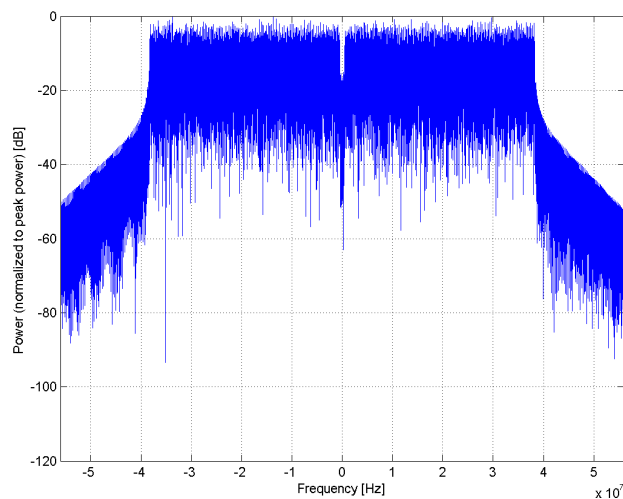
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Name:	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)
Group:	WLAN
UID:	10545-AAB
PAR: ¹	8.55 dB
MIF: ²	-14.73 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	QPSK
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 80MHz
	Duty cycle: 99%
	MCS: 1
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	80.0 MHz
Integration Time:	1.2 ms

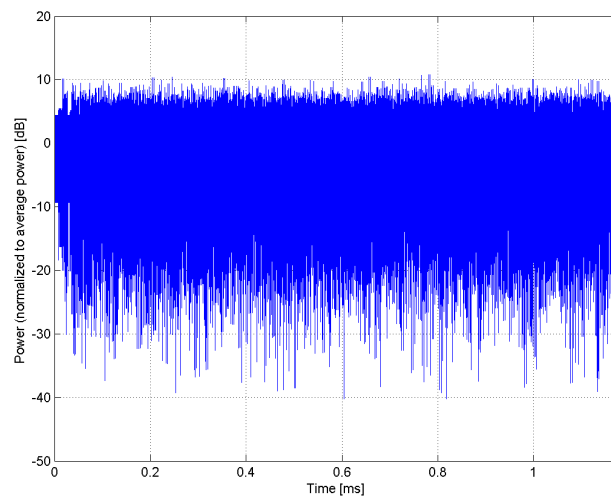
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



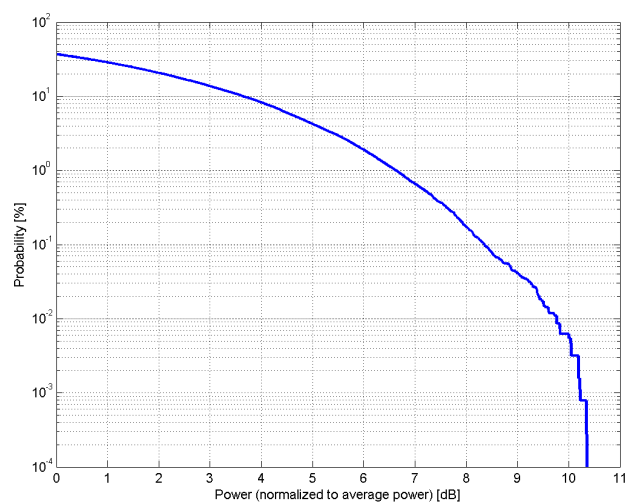
Time Domain

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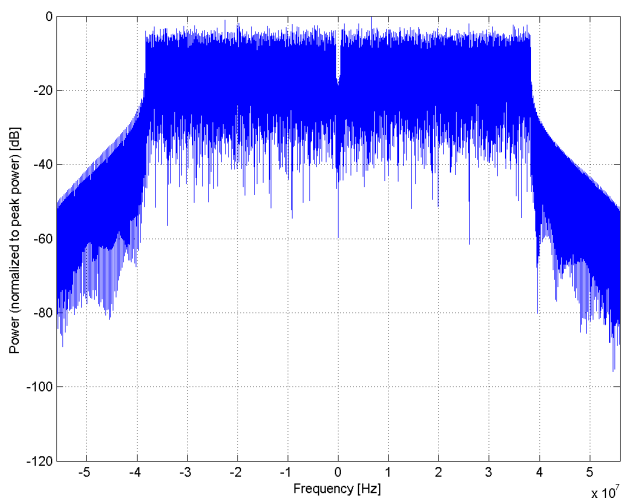
Name:	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)
Group:	WLAN
UID:	10546-AAB
PAR: ¹	8.35 dB
MIF: ²	-15.59 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	QPSK
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 80MHz
	Duty cycle: 99%
	MCS: 2
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	80.0 MHz
Integration Time:	0.8 ms

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

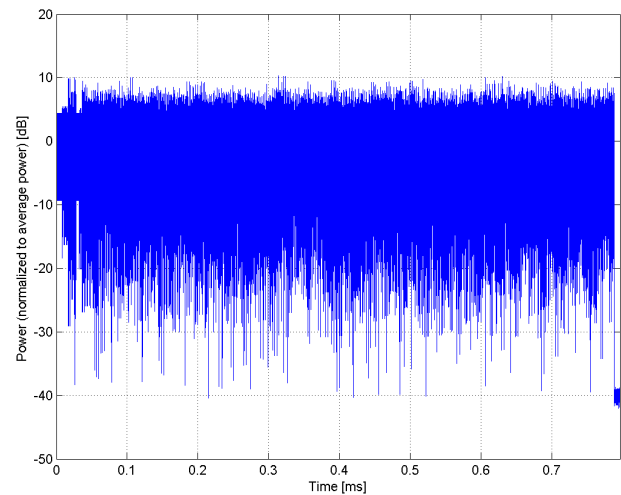
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

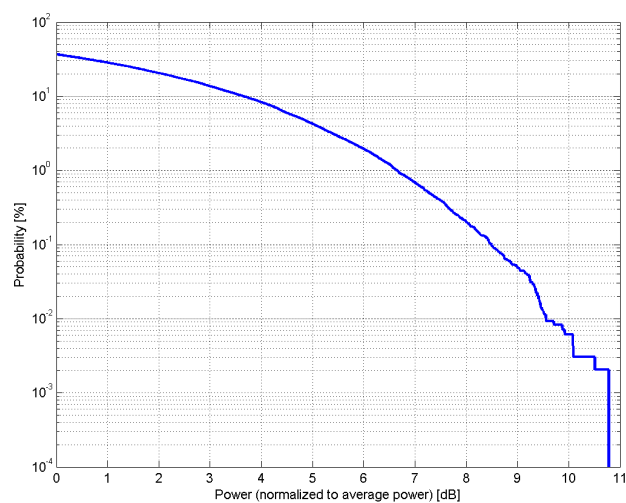


Time Domain

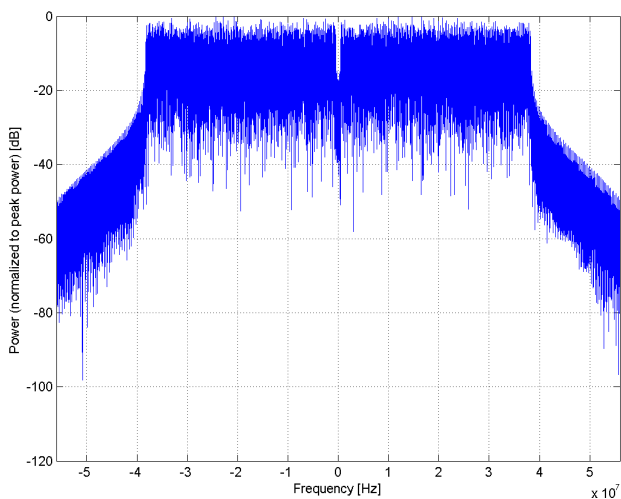
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Name:	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)
Group:	WLAN
UID:	10547-AAB
PAR: ¹	8.49 dB
MIF: ²	-16.92 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	16-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 80MHz
	Duty cycle: 99%
	MCS: 3
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	80.0 MHz
Integration Time:	0.6 ms

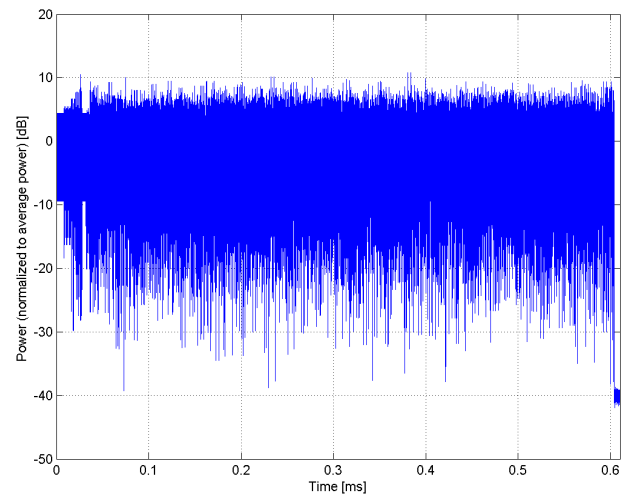
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



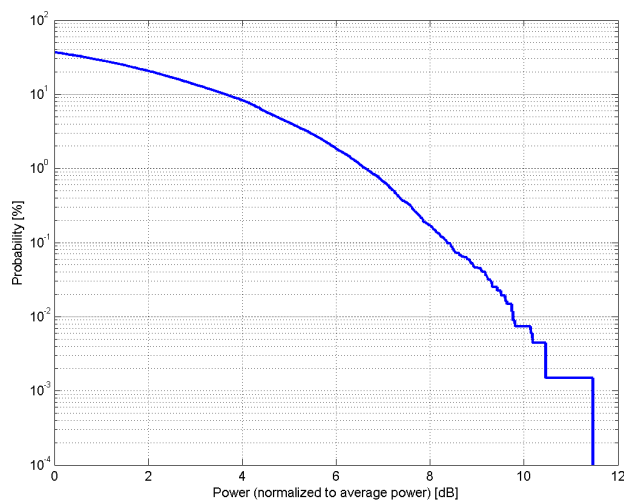
Time Domain

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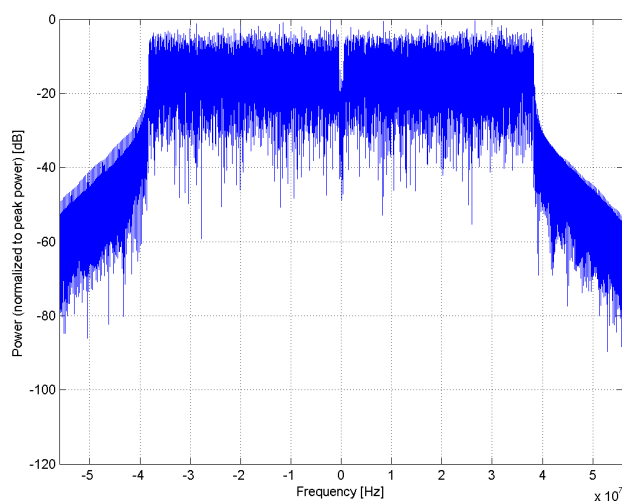
Name:	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)
Group:	WLAN
UID:	10548-AAB
PAR: ¹	8.37 dB
MIF: ²	-18.67 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	16-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 80MHz
	Duty cycle: 99%
	MCS: 4
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	80.0 MHz
Integration Time:	0.4 ms

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

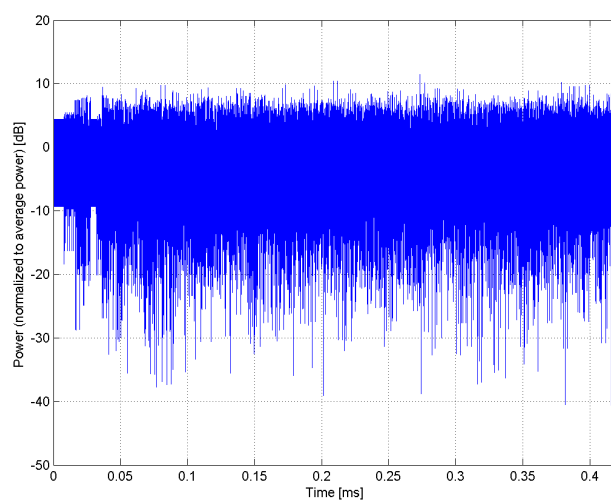
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



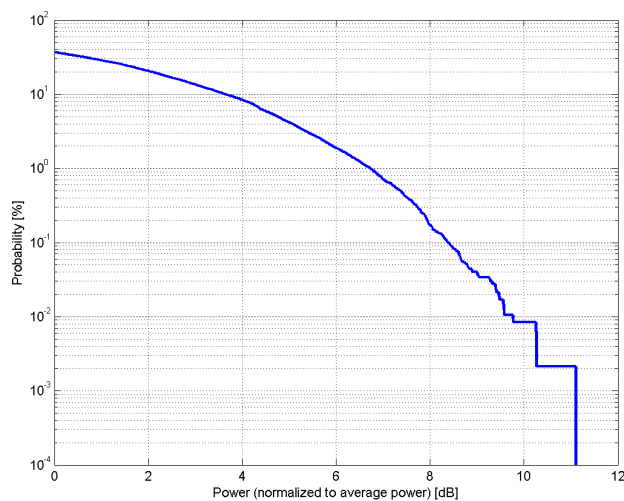
Time Domain

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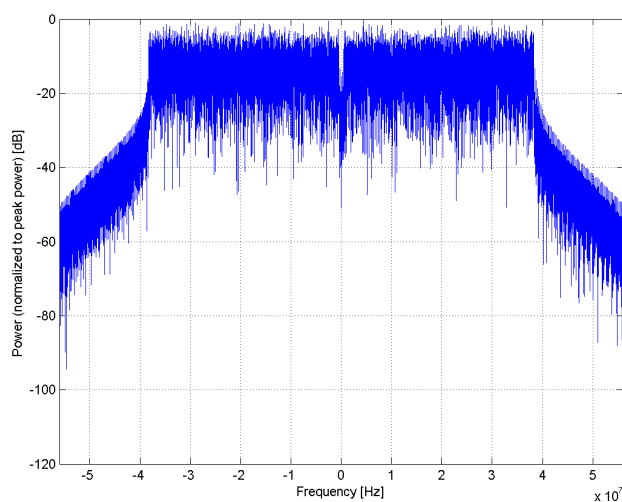
Name:	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)
Group:	WLAN
UID:	10550-AAB
PAR: ¹	8.38 dB
MIF: ²	-19.70 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Modulation:	Random amplitude modulation
Frequency Band:	64-QAM
	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz)
	U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 80MHz
	Duty cycle: 99%
	MCS: 6
	Number of spatial streams: 1
	MPDU length: 8192
Bandwidth:	80.0 MHz
Integration Time:	0.3 ms

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

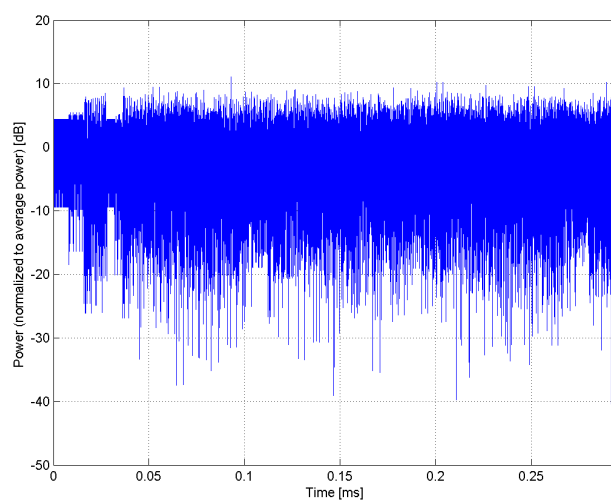
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain