

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

Name: IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)

Group: WLAN  
UID: 10586-AAB

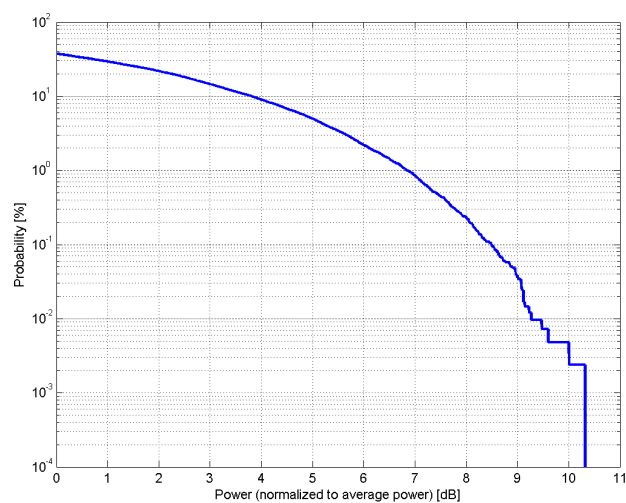
PAR: <sup>1</sup> 8.49 dB  
MIF: <sup>2</sup> -8.19 dB

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)

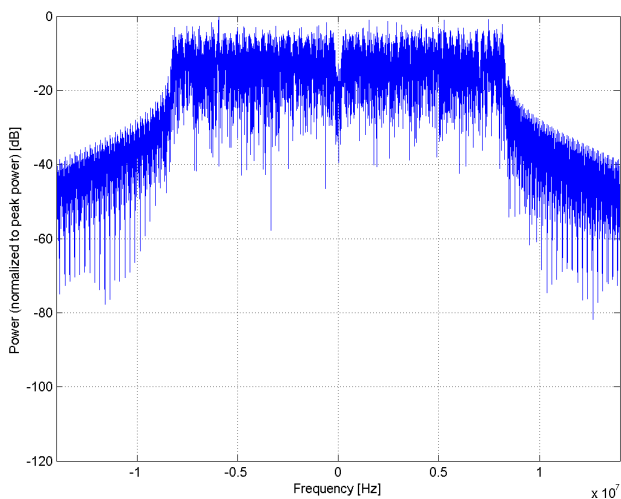
Detailed Specification: Duty cycle: 90%  
PSDU length: 1000 bytes

Bandwidth: Data Rate: 18Mbps  
20.0 MHz  
Integration Time: 0.5 ms

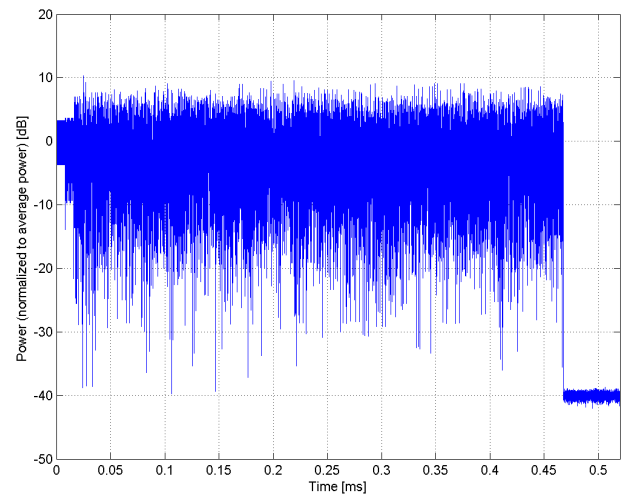
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)

Group: WLAN  
UID: 10587-AAB

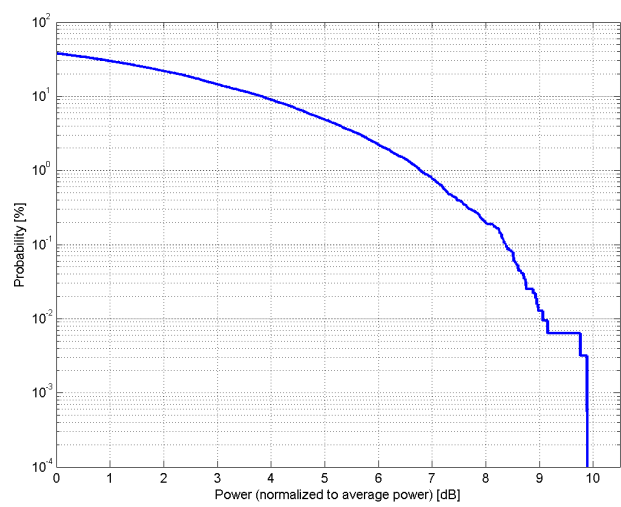
PAR: <sup>1</sup> 8.36 dB  
MIF: <sup>2</sup> -9.30 dB

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)

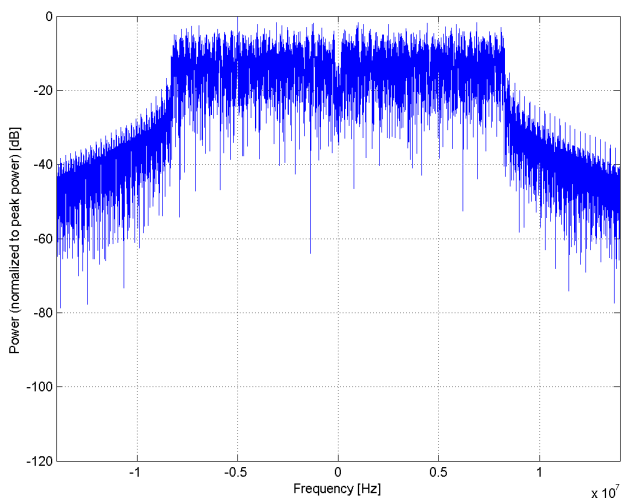
Detailed Specification: Duty cycle: 90%  
PSDU length: 1000 bytes  
Data Rate: 24Mbps

Bandwidth: 20.0 MHz  
Integration Time: 0.4 ms

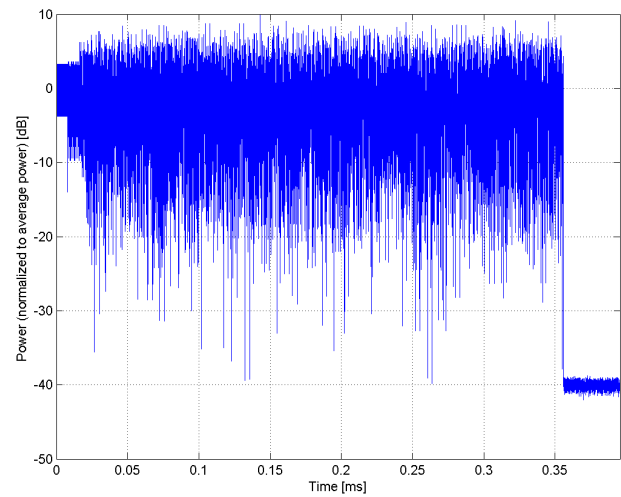
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)**

Group: WLAN  
UID: 10588-AAB

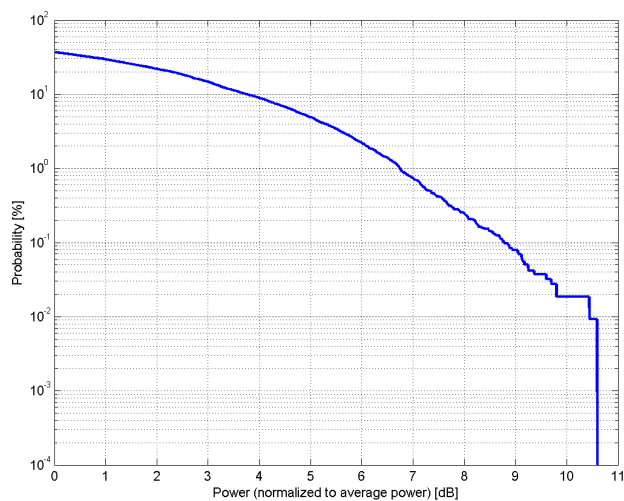
PAR: <sup>1</sup> **8.76 dB**  
MIF: <sup>2</sup> **-11.10 dB**

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)

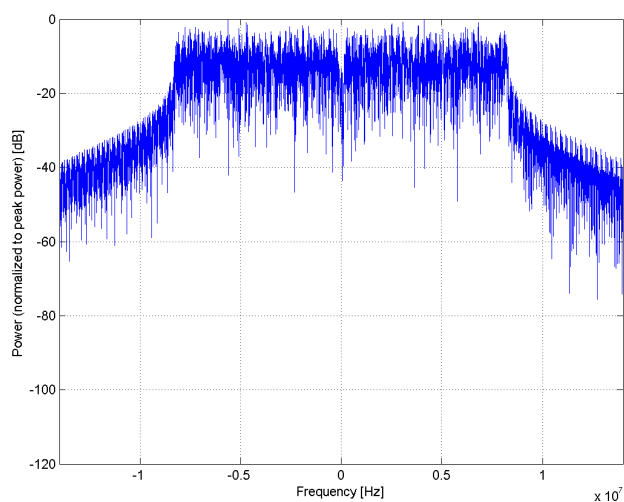
Detailed Specification: Duty cycle: 90%  
PSDU length: 1000 bytes

Bandwidth: Data Rate: 36Mbps  
20.0 MHz  
Integration Time: 0.3 ms

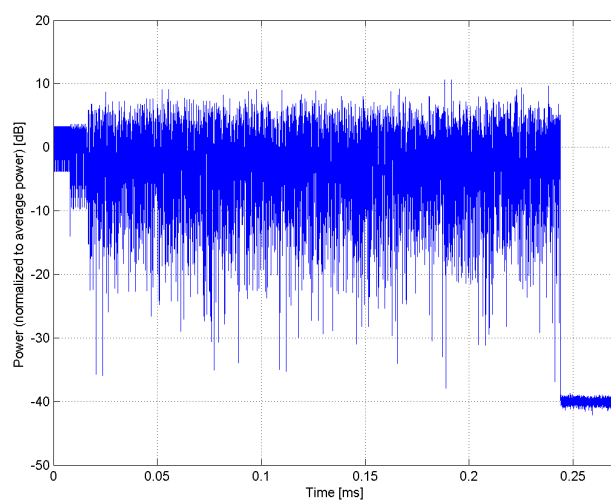
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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

Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)**

Group: WLAN  
UID: 10589-AAB

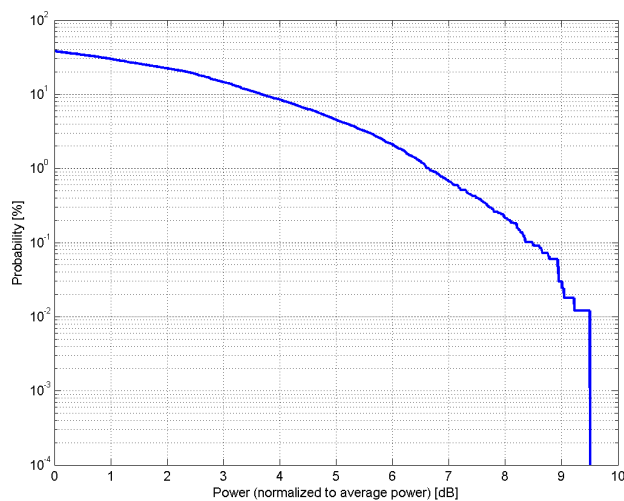
PAR: <sup>1</sup> **8.35 dB**  
MIF: <sup>2</sup> **-12.77 dB**

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)

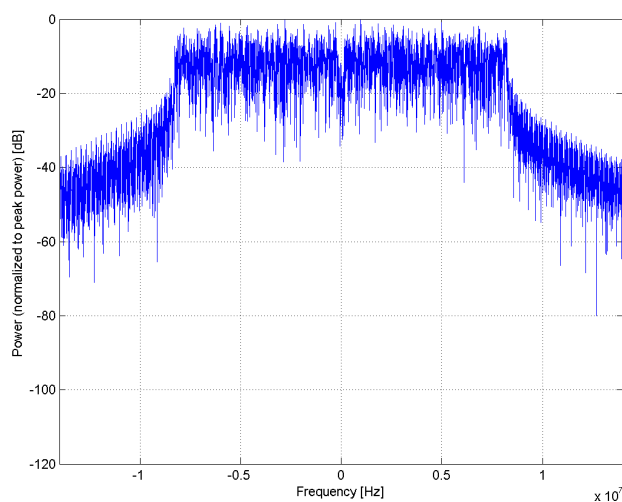
Detailed Specification: Duty cycle: 90%  
PSDU length: 1000 bytes

Bandwidth: Data Rate: 48Mbps  
20.0 MHz  
Integration Time: 0.2 ms

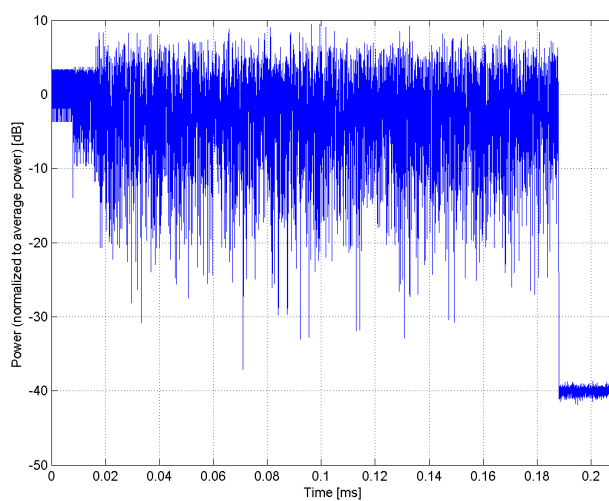
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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

Name: **IEEE 802.11a/h Wi-Fi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)**

Group: WLAN  
UID: 10590-AAB

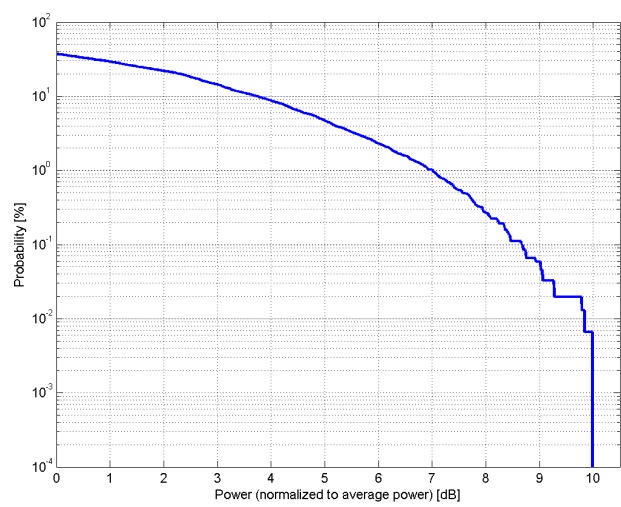
PAR: <sup>1</sup> **8.67 dB**  
MIF: <sup>2</sup> **-13.22 dB**

Standard Reference: IEEE 802.11-2012  
Category: FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Modulation: Random amplitude 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)

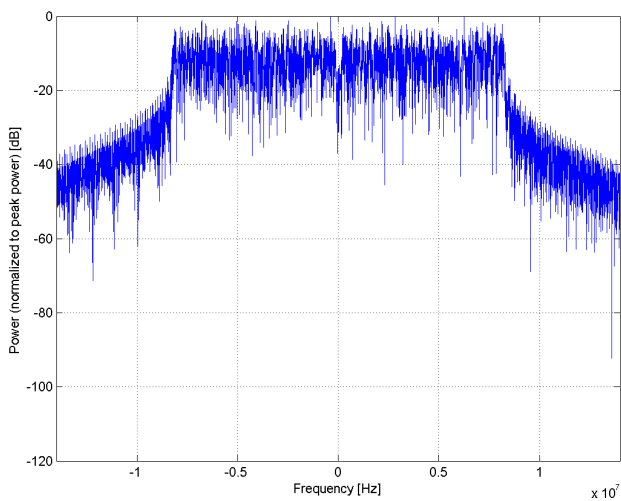
Detailed Specification: Duty cycle: 90%  
PSDU length: 1000 bytes

Bandwidth: Data Rate: 54Mbps  
20.0 MHz  
Integration Time: 0.2 ms

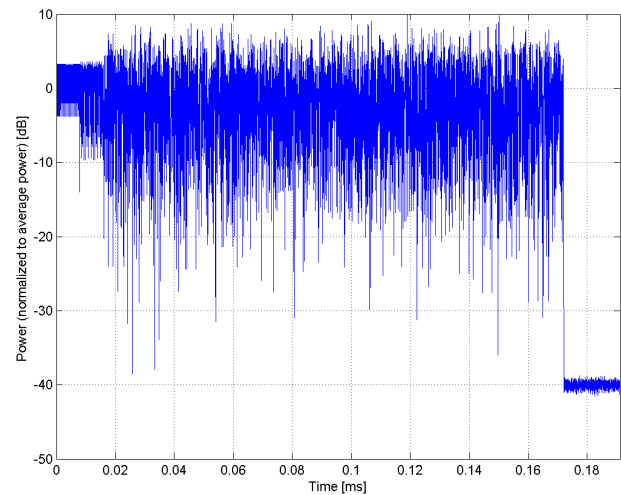
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)**

Group: WLAN  
UID: 10591-AAB

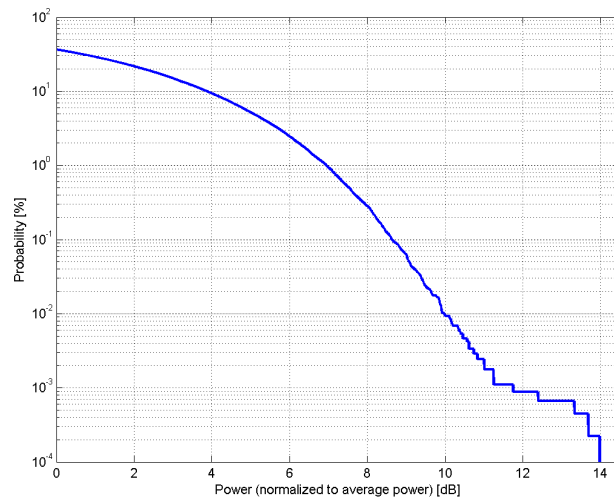
PAR: <sup>1</sup> **8.63 dB**  
MIF: <sup>2</sup> **-5.59 dB**

Standard Reference: IEEE 802.11-2012  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: 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)

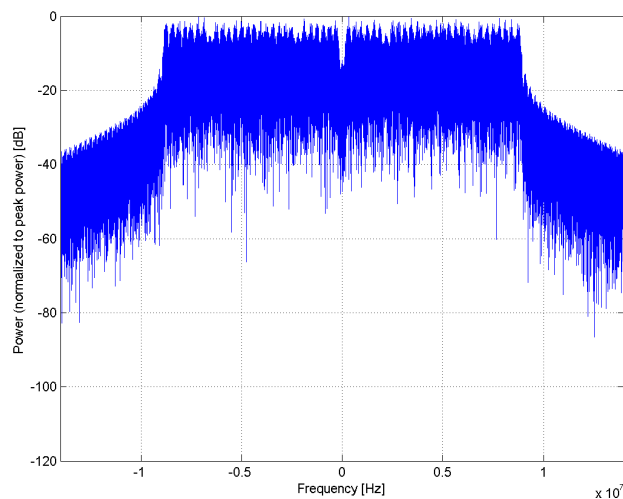
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 0

Bandwidth: Guard interval: long  
20.0 MHz  
Integration Time: 5.6 ms

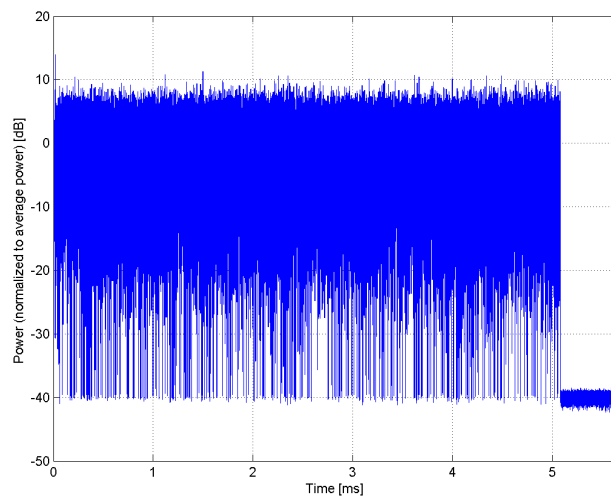
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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

Name: IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)

Group: WLAN  
UID: 10592-AAB

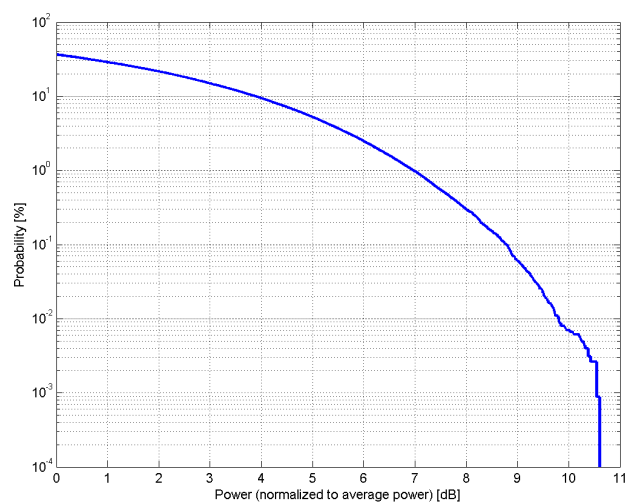
PAR: <sup>1</sup> 8.79 dB  
MIF: <sup>2</sup> -5.61 dB

Standard Reference: IEEE 802.11-2012  
Category: FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
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)

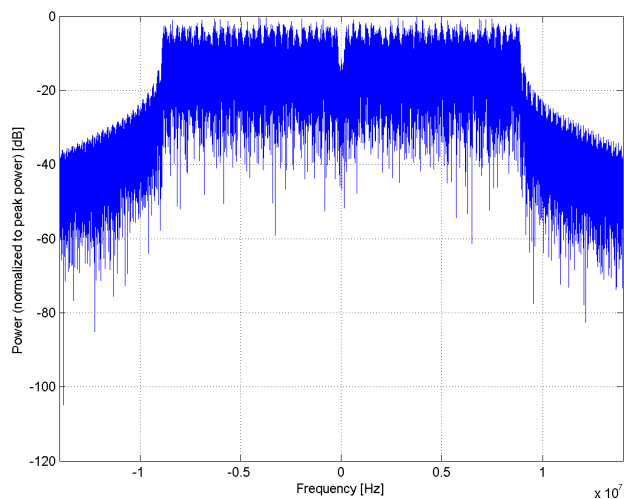
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 1

Bandwidth: Guard interval: long  
20.0 MHz  
Integration Time: 2.8 ms

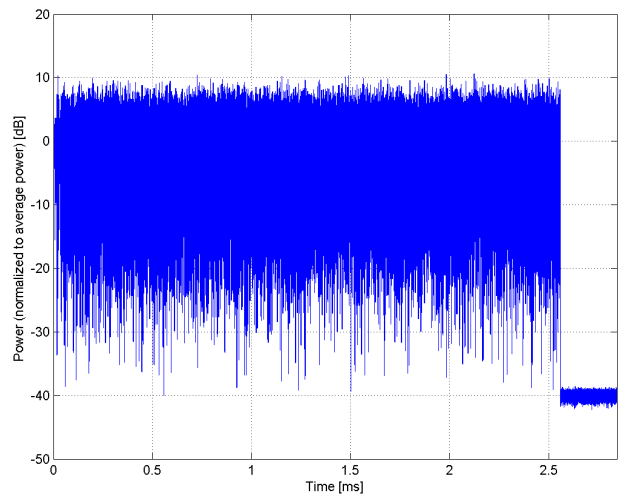
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)

Group: WLAN  
UID: 10593-AAB

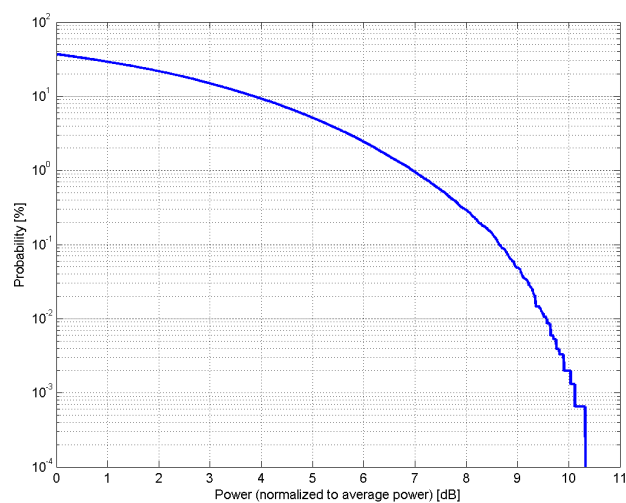
PAR: <sup>1</sup> 8.64 dB  
MIF: <sup>2</sup> -5.84 dB

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 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)

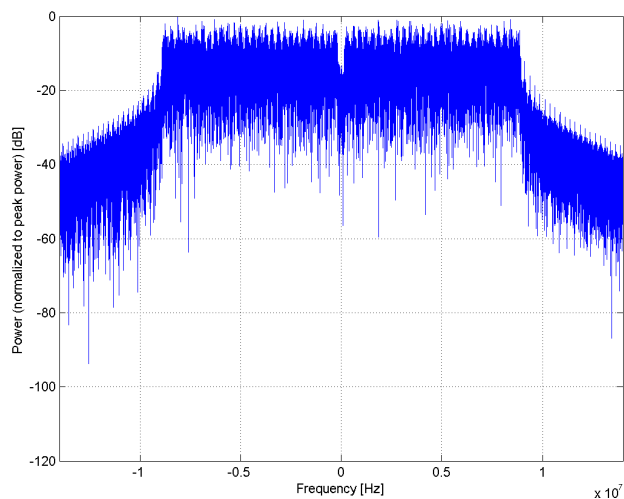
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 2

Bandwidth: Guard interval: long  
20.0 MHz  
Integration Time: 1.9 ms

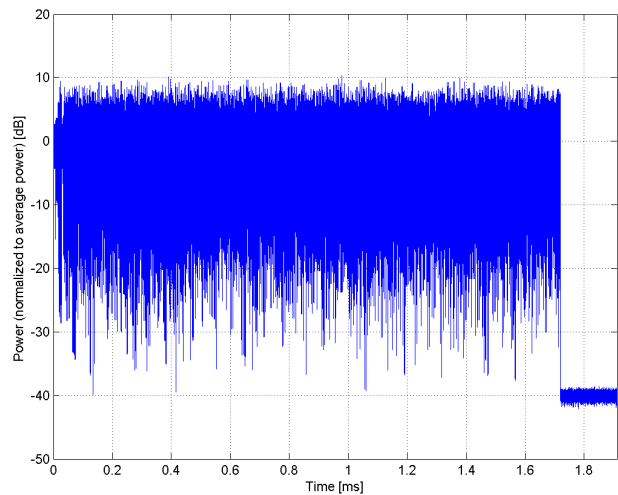
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)

Group: WLAN  
UID: 10594-AAB

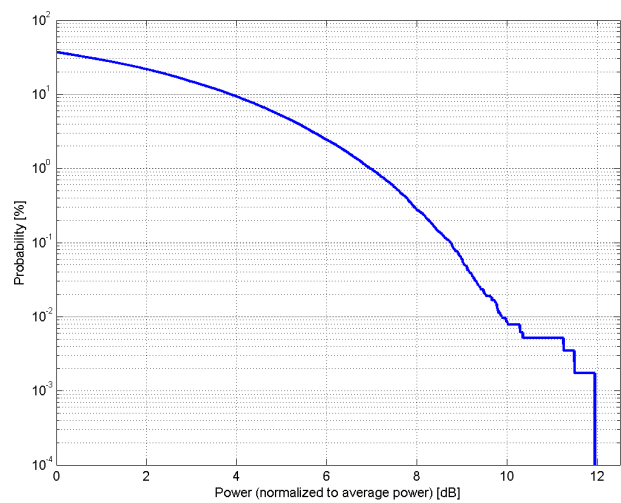
PAR: <sup>1</sup> 8.74 dB  
MIF: <sup>2</sup> -6.17 dB

Standard Reference: IEEE 802.11-2012  
Category: FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Modulation: Random amplitude 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)

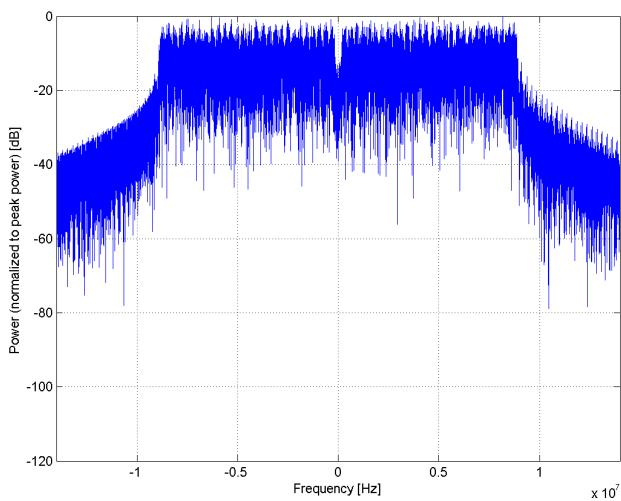
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 3

Bandwidth: Guard interval: long  
20.0 MHz  
Integration Time: 1.4 ms

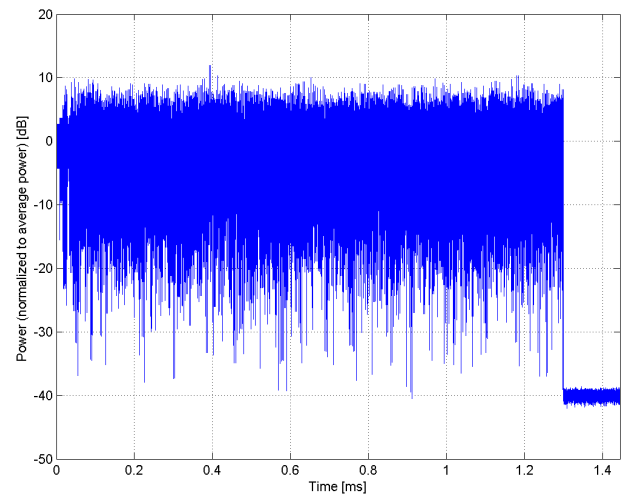
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)**

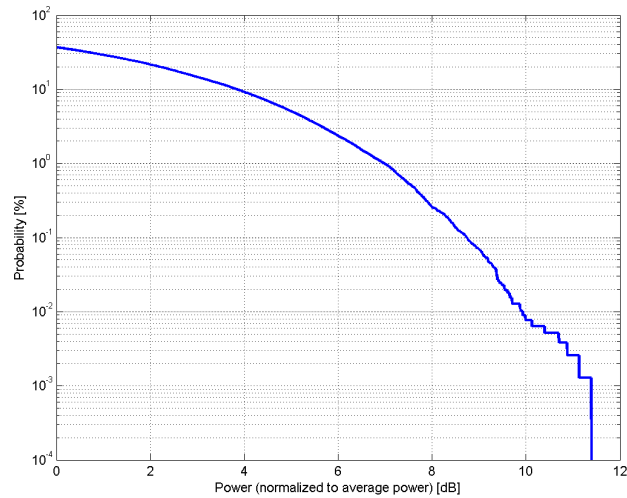
Group: WLAN  
UID: 10595-AAB

PAR: <sup>1</sup> **8.74 dB**  
MIF: <sup>2</sup> **-6.72 dB**

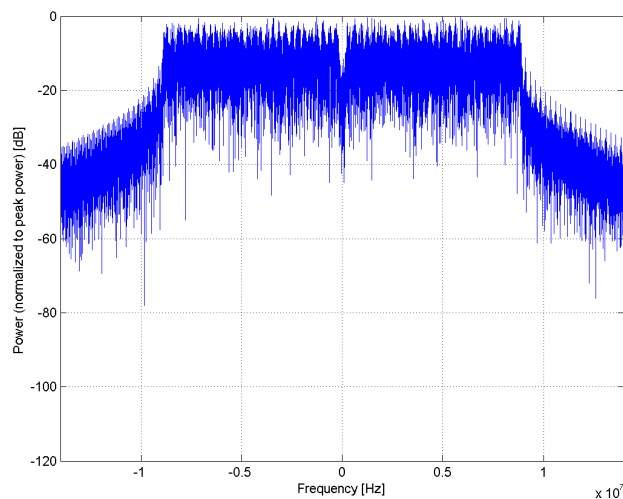
Standard Reference: IEEE 802.11-2012  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 16-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 4  
Guard interval: long  
Bandwidth: 20.0 MHz  
Integration Time: 1.0 ms

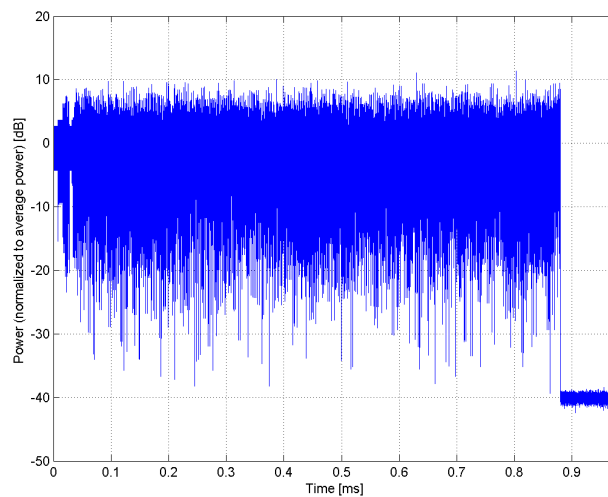
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

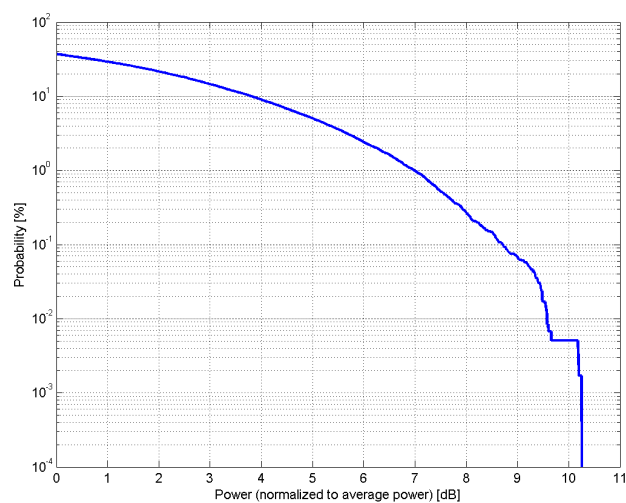


### Time Domain

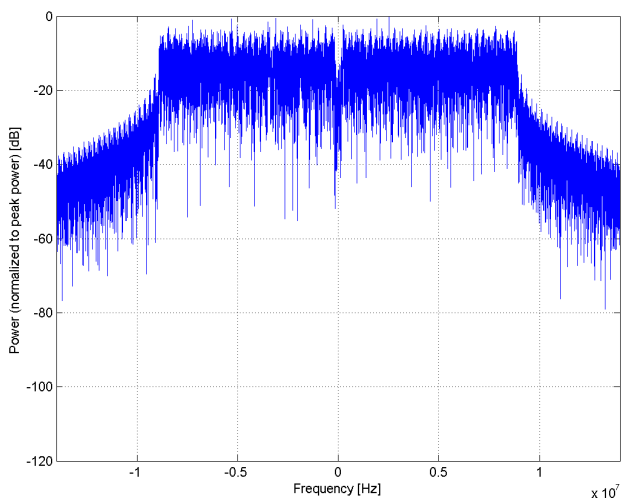
**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Name:                   | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) |
| Group:                  | WLAN                                                  |
| UID:                    | 10596-AAB                                             |
| PAR: <sup>1</sup>       | 8.71 dB                                               |
| MIF: <sup>2</sup>       | -7.25 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 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: | Duty cycle: 90%                                       |
|                         | MPDU length: 4096 bytes                               |
|                         | MCS: 5                                                |
|                         | Guard interval: long                                  |
| Bandwidth:              | 20.0 MHz                                              |
| Integration Time:       | 0.7 ms                                                |

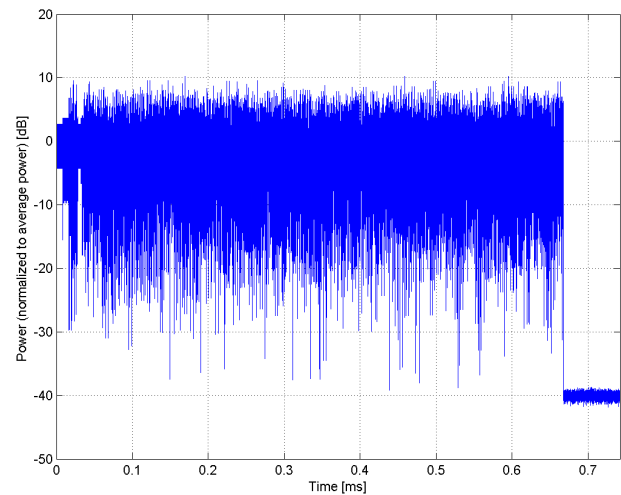
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

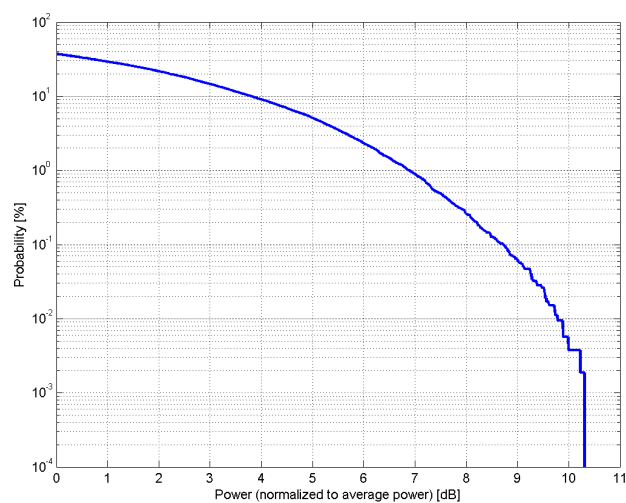


Time Domain

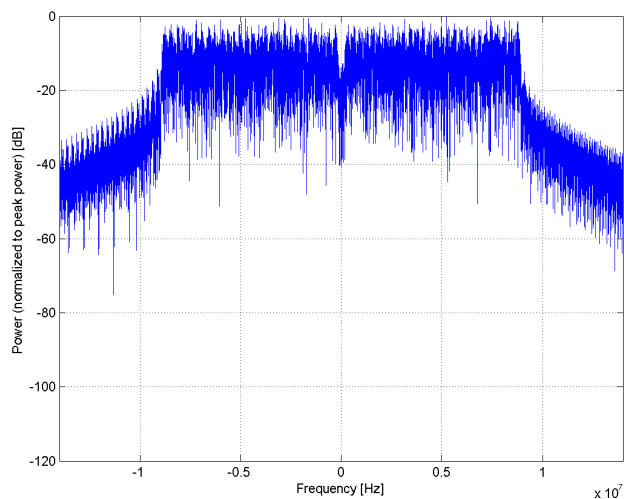
**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Name:                   | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) |
| Group:                  | WLAN                                                  |
| UID:                    | 10597-AAB                                             |
| PAR: <sup>1</sup>       | 8.72 dB                                               |
| MIF: <sup>2</sup>       | -7.54 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 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: | Duty cycle: 90%                                       |
|                         | MPDU length: 4096 bytes                               |
|                         | MCS: 6                                                |
|                         | Guard interval: long                                  |
| Bandwidth:              | 20.0 MHz                                              |
| Integration Time:       | 0.7 ms                                                |

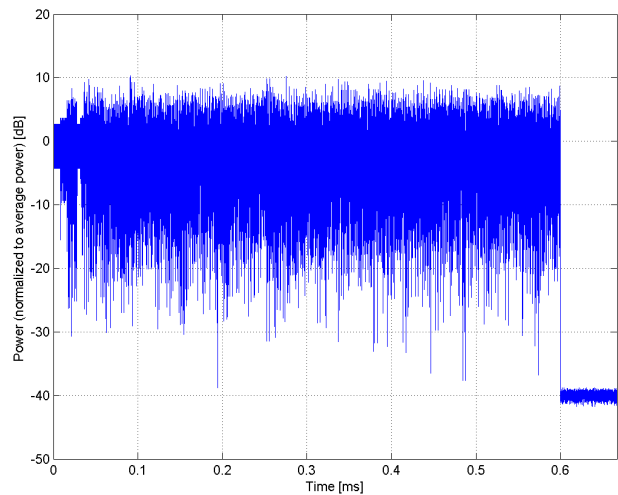
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)**

Group: WLAN  
UID: 10598-AAB

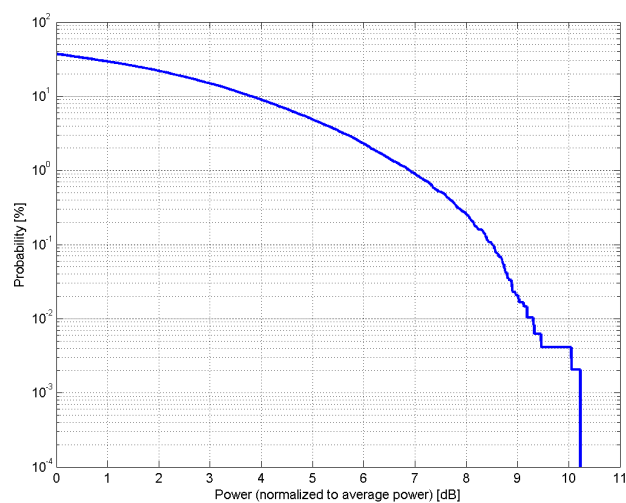
PAR: <sup>1</sup> **8.50 dB**  
MIF: <sup>2</sup> **-7.86 dB**

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 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)

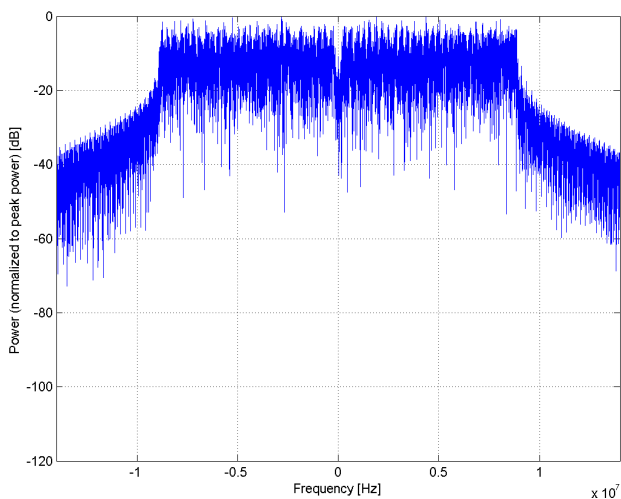
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 7

Bandwidth: Guard interval: long  
20.0 MHz  
Integration Time: 0.6 ms

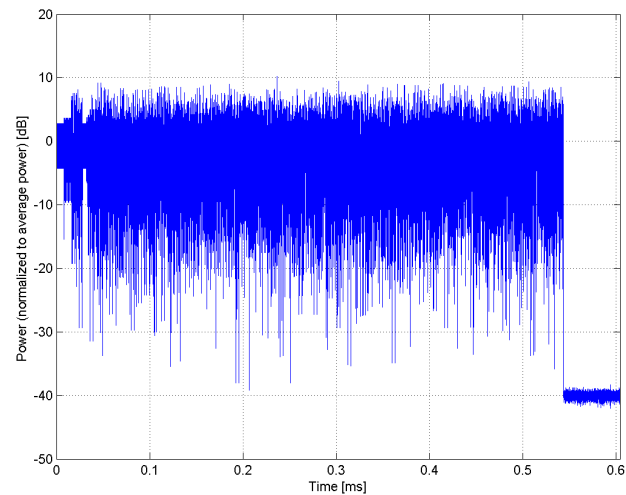
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)

Group: WLAN  
UID: 10599-AAB

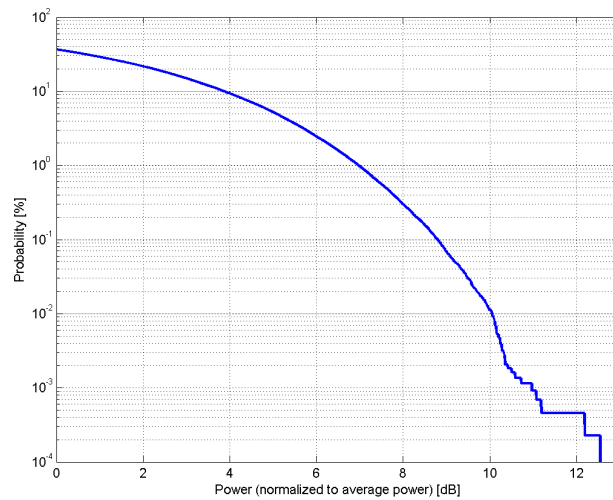
PAR: <sup>1</sup> 8.79 dB  
MIF: <sup>2</sup> -5.59 dB

Standard Reference: IEEE 802.11-2012  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Random amplitude modulation  
Category: BPSK  
Modulation: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
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)

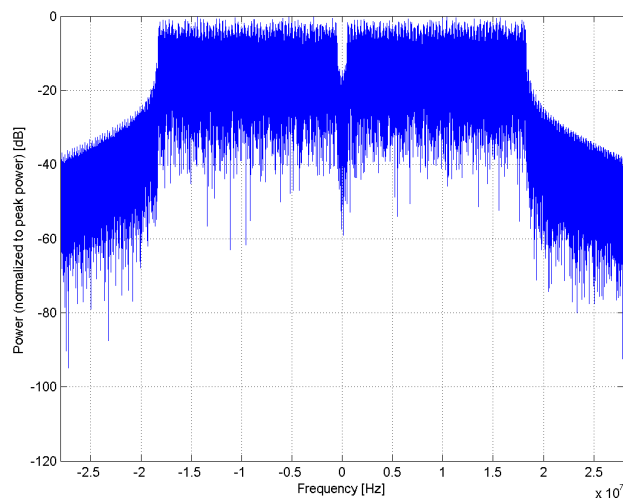
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 0

Bandwidth: Guard interval: long  
40.0 MHz  
Integration Time: 2.7 ms

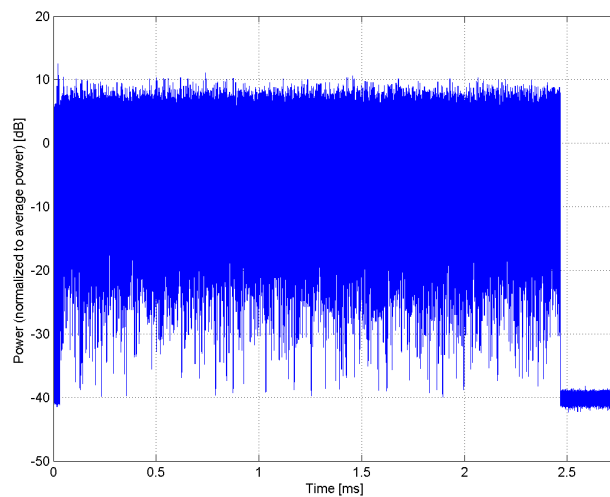
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



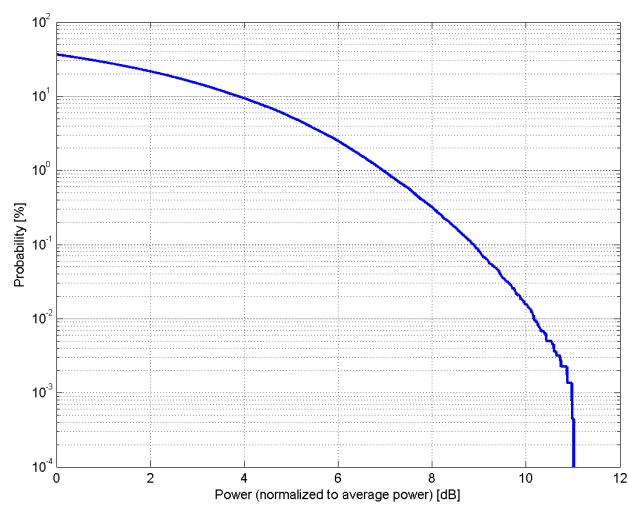
### Time Domain

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Engineering AG**  
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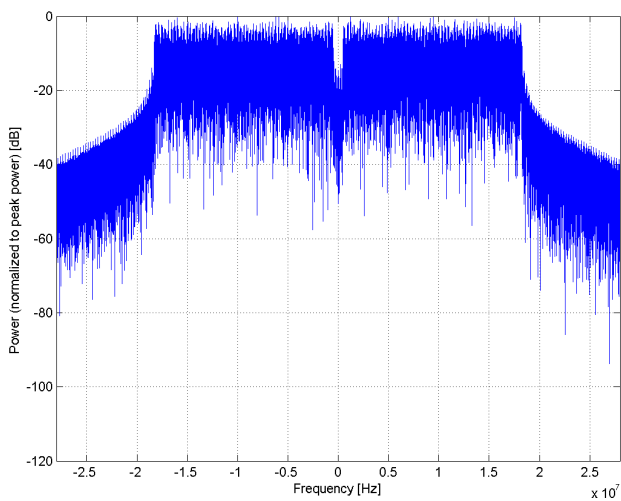
|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Name:                   | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) |
| Group:                  | WLAN                                                  |
| UID:                    | 10600-AAB                                             |
| PAR: <sup>1</sup>       | 8.88 dB                                               |
| MIF: <sup>2</sup>       | -6.06 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:         | 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: | Duty cycle: 90%                                       |
|                         | MPDU length: 4096 bytes                               |
|                         | MCS: 1                                                |
|                         | Guard interval: long                                  |
| Bandwidth:              | 40.0 MHz                                              |
| Integration Time:       | 1.4 ms                                                |

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

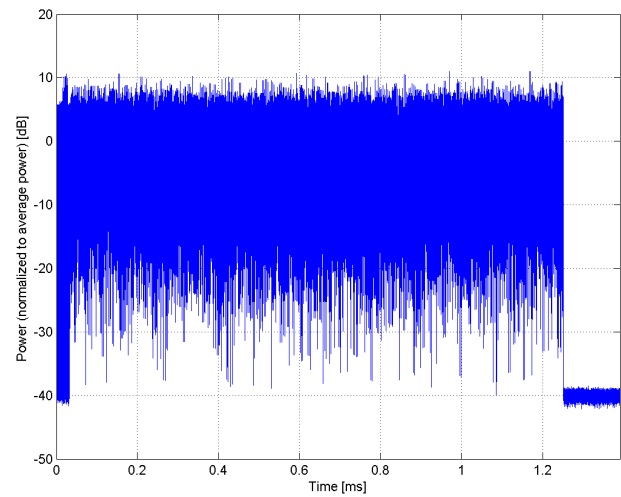
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)**

Group: WLAN  
UID: 10601-AAB

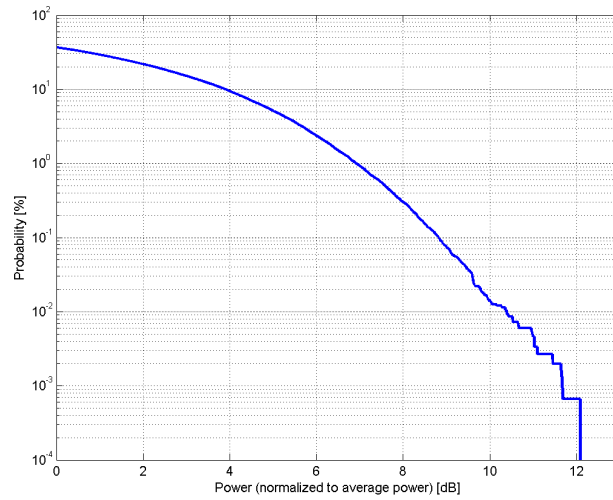
PAR: <sup>1</sup> **8.82 dB**  
MIF: <sup>2</sup> **-6.59 dB**

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 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)

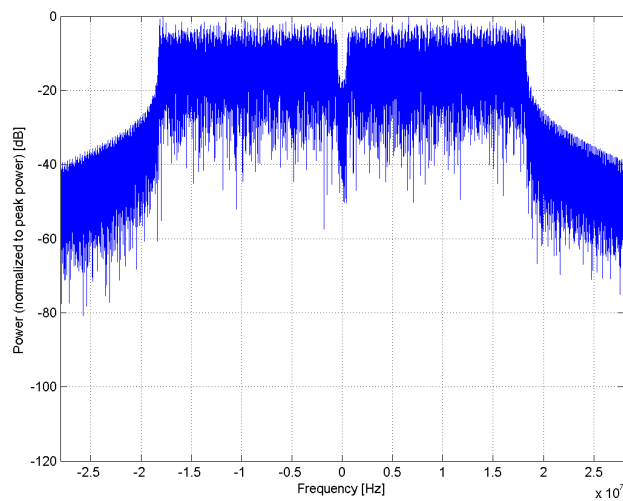
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 2

Bandwidth: Guard interval: long  
40.0 MHz  
Integration Time: 0.9 ms

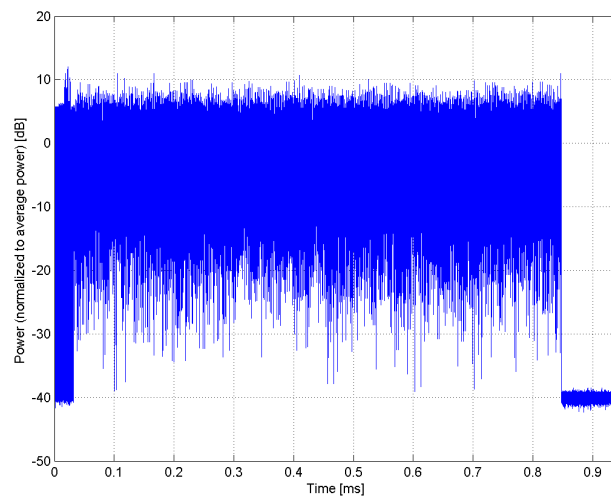
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

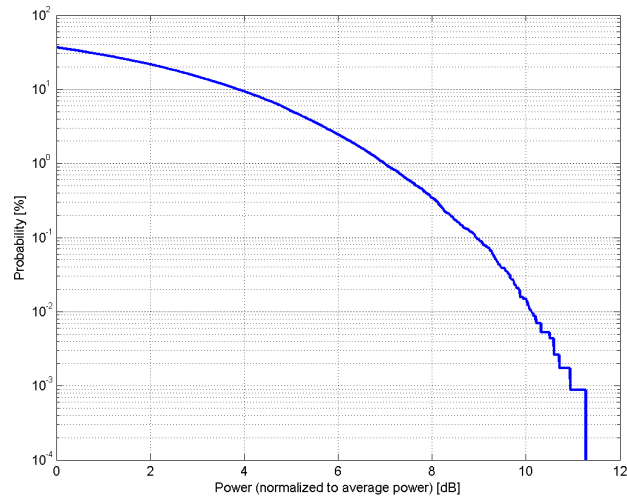


### Time Domain

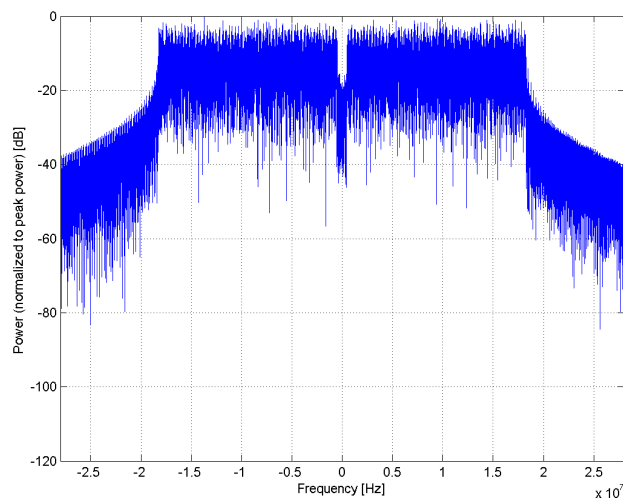
**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Name:                   | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) |
| Group:                  | WLAN                                                  |
| UID:                    | 10602-AAB                                             |
| PAR: <sup>1</sup>       | 8.94 dB                                               |
| MIF: <sup>2</sup>       | -7.17 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:         | 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: | Duty cycle: 90%                                       |
|                         | MPDU length: 4096 bytes                               |
|                         | MCS: 3                                                |
|                         | Guard interval: long                                  |
| Bandwidth:              | 40.0 MHz                                              |
| Integration Time:       | 0.7 ms                                                |

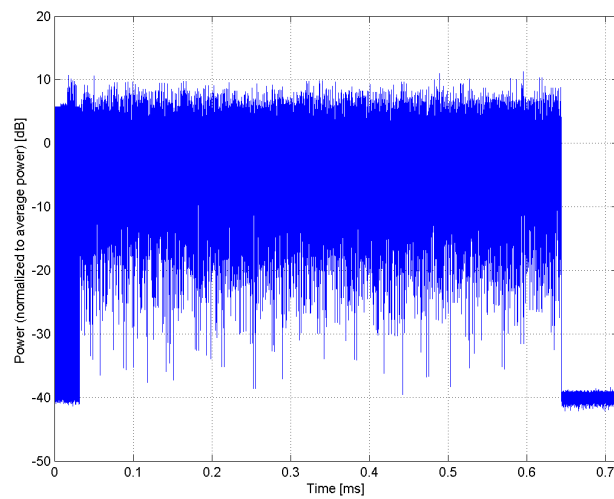
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

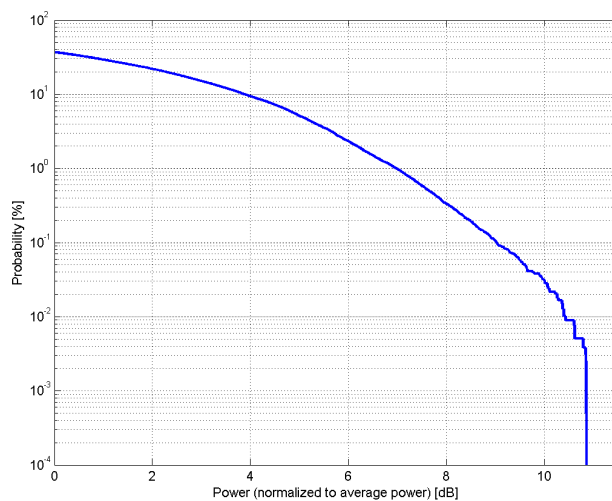


### Time Domain

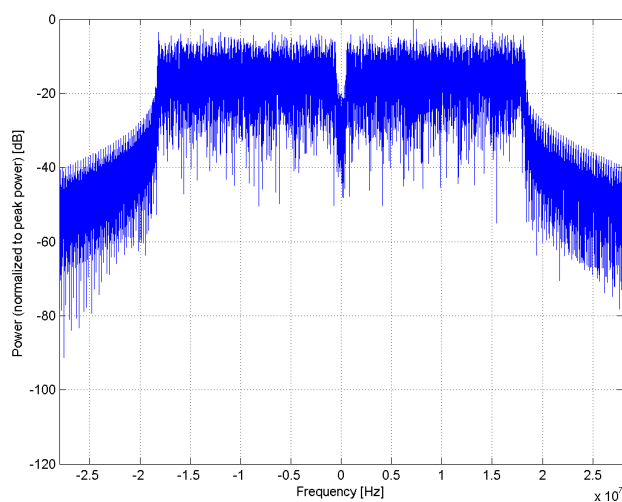
**Calibration Laboratory of  
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Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Name:                   | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) |
| Group:                  | WLAN                                                  |
| UID:                    | 10603-AAB                                             |
| PAR: <sup>1</sup>       | 9.03 dB                                               |
| MIF: <sup>2</sup>       | -8.03 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:         | 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: | Duty cycle: 90%                                       |
|                         | MPDU length: 4096 bytes                               |
|                         | MCS: 4                                                |
|                         | Guard interval: long                                  |
| Bandwidth:              | 40.0 MHz                                              |
| Integration Time:       | 0.5 ms                                                |

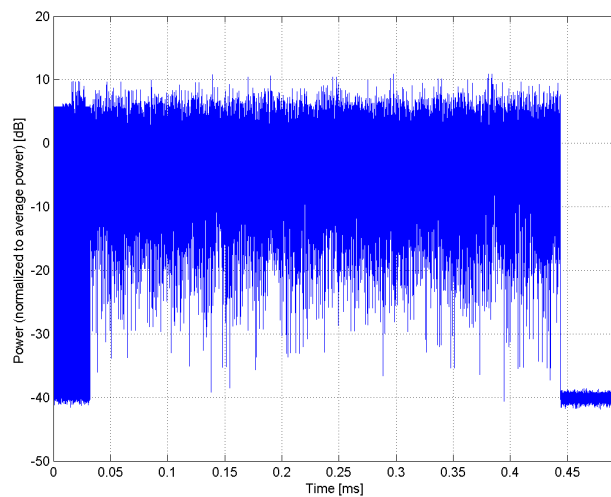
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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

Name: IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)

Group: WLAN  
UID: 10604-AAB

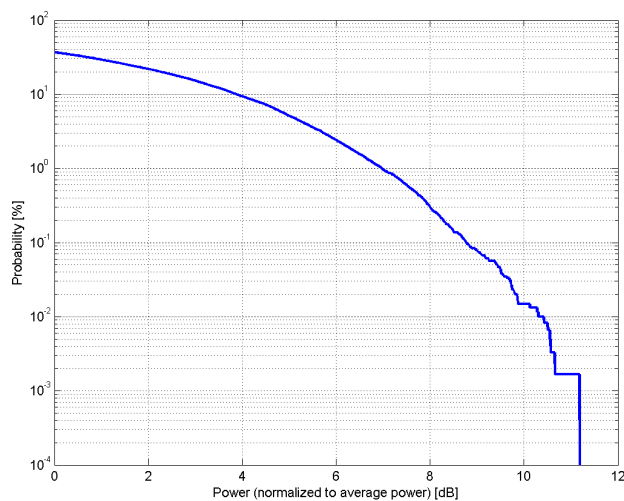
PAR: <sup>1</sup> 8.76 dB  
MIF: <sup>2</sup> -8.65 dB

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 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)

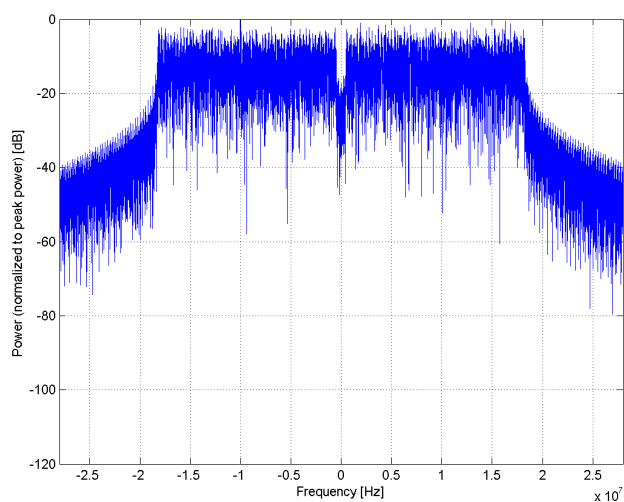
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 5

Bandwidth: Guard interval: long  
40.0 MHz  
Integration Time: 0.4 ms

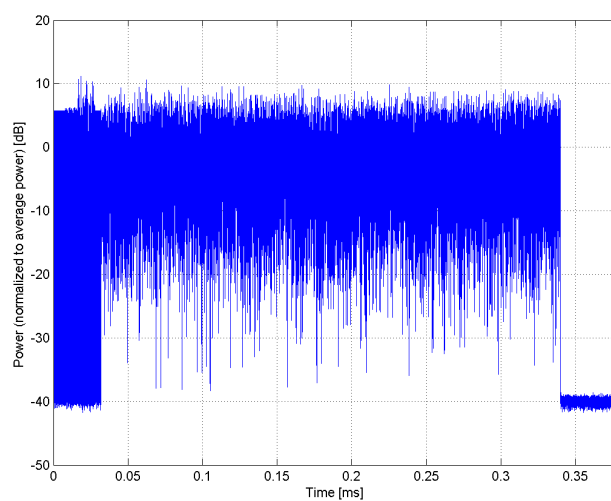
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)**

Group: WLAN  
UID: 10605-AAB

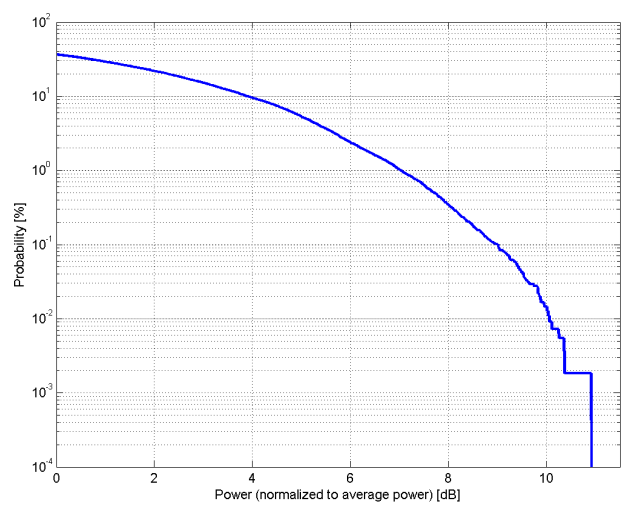
PAR: <sup>1</sup> **8.97 dB**  
MIF: <sup>2</sup> **-9.23 dB**

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 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)

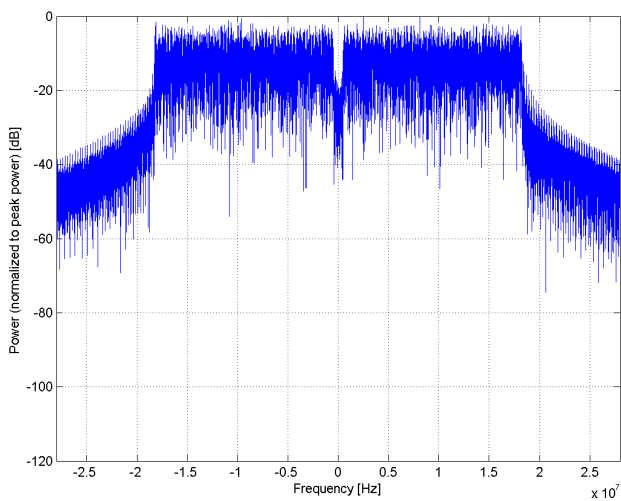
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 6

Bandwidth: Guard interval: long  
40.0 MHz  
Integration Time: 0.3 ms

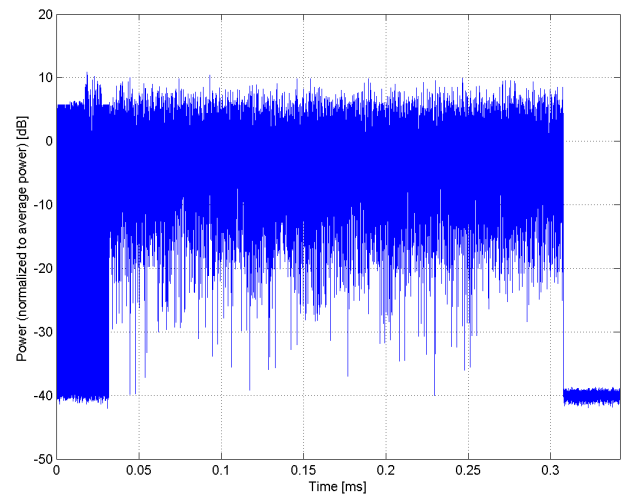
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)

Group: WLAN  
UID: 10606-AAB

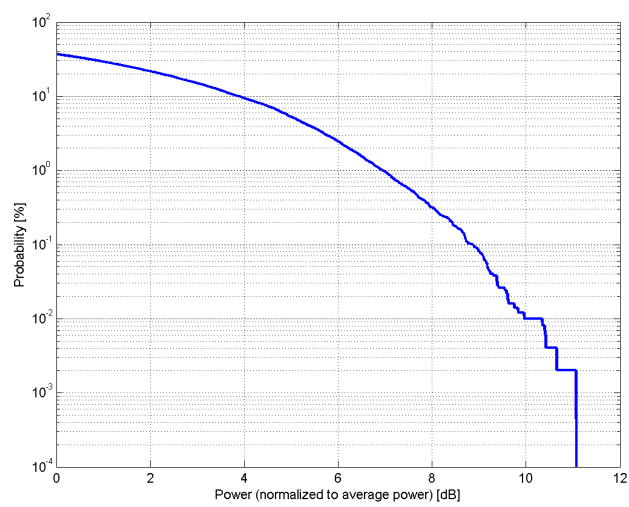
PAR: <sup>1</sup> 8.82 dB  
MIF: <sup>2</sup> -9.43 dB

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 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)

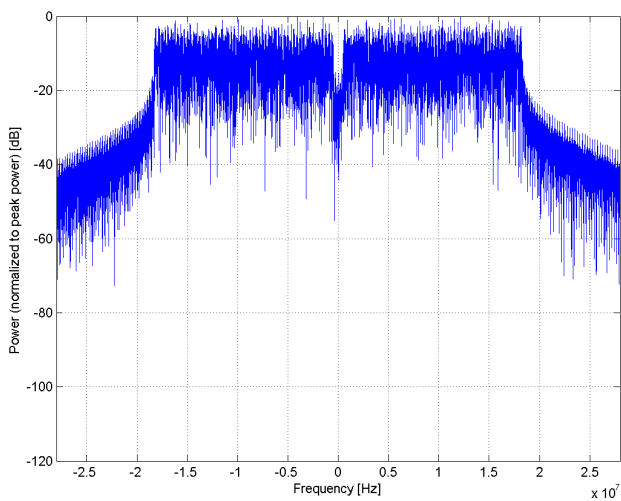
Detailed Specification: Duty cycle: 90%  
MPDU length: 4096 bytes  
MCS: 7

Bandwidth: Guard interval: long  
40.0 MHz  
Integration Time: 0.3 ms

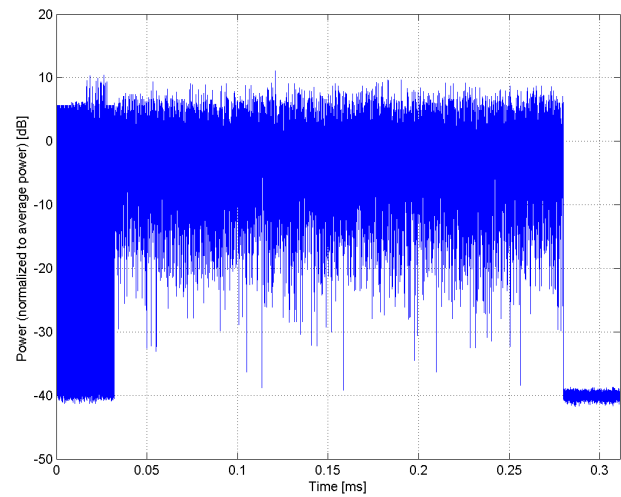
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

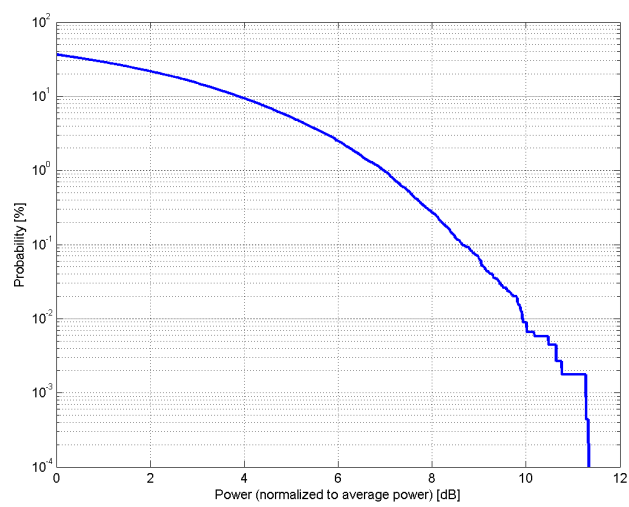


Time Domain

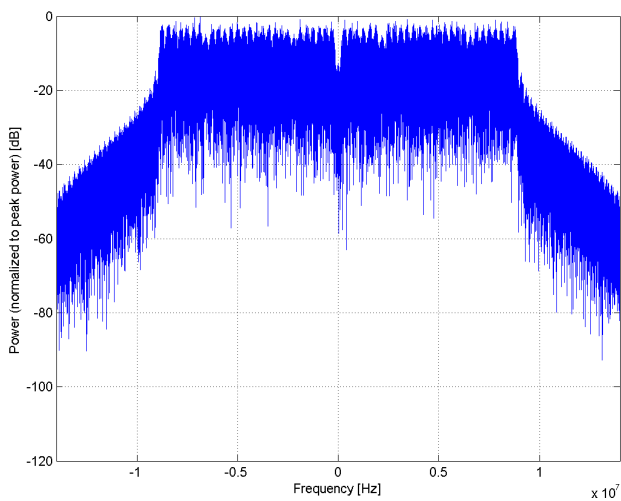
**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10607-AAB                                         |
| PAR: <sup>1</sup>       | 8.64 dB                                           |
| MIF: <sup>2</sup>       | -5.60 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: 20MHz                                  |
|                         | Duty cycle: 90%                                   |
|                         | MCS: 0                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 4096                                 |
| Bandwidth:              | 20.0 MHz                                          |
| Integration Time:       | 5.7 ms                                            |

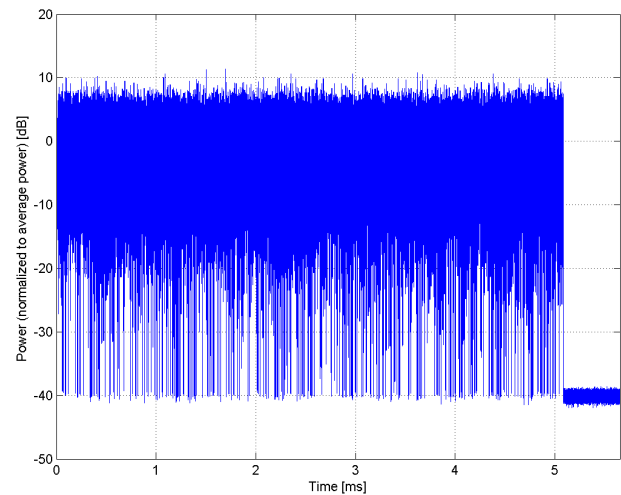
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

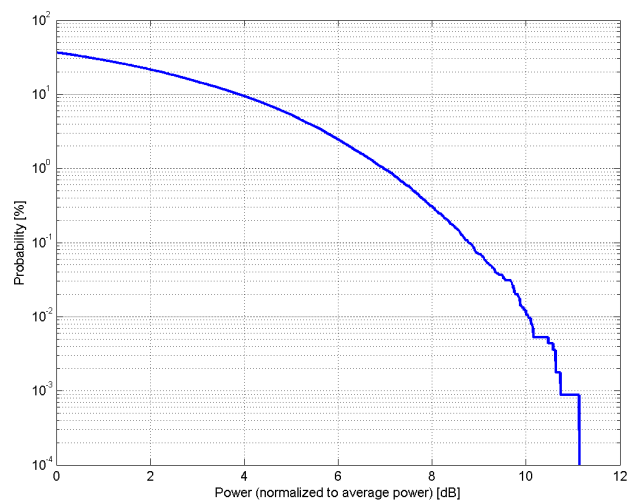


Time Domain

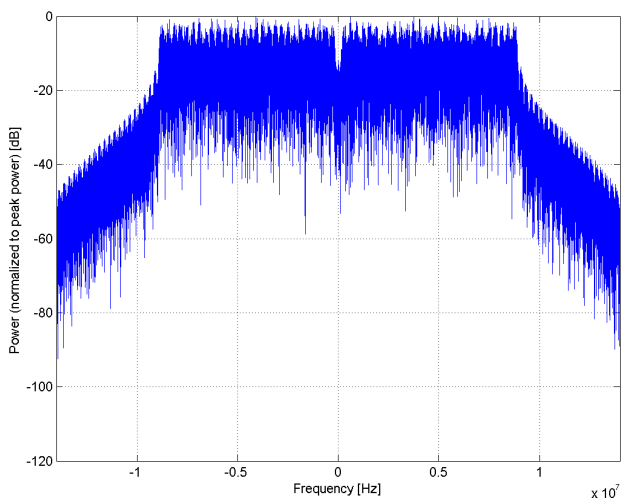
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Engineering AG**  
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10608-AAB                                         |
| PAR: <sup>1</sup>       | 8.77 dB                                           |
| MIF: <sup>2</sup>       | -5.62 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: 90%                                   |
|                         | MCS: 1                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 4096                                 |
| Bandwidth:              | 20.0 MHz                                          |
| Integration Time:       | 2.8 ms                                            |

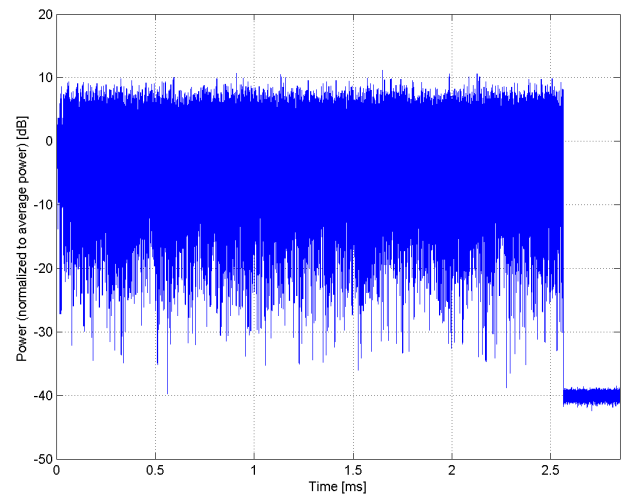
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

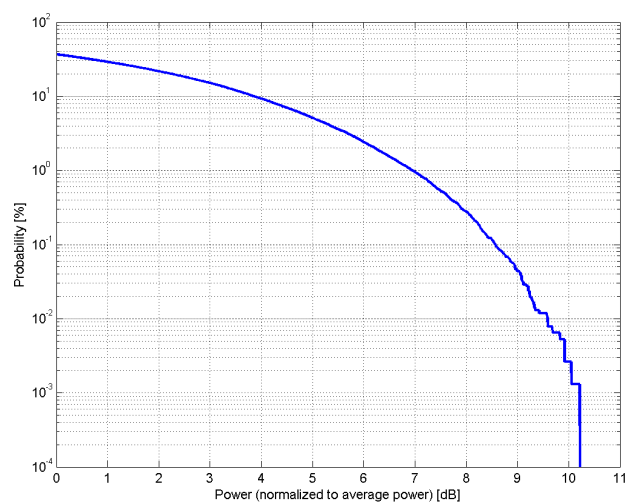


Time Domain

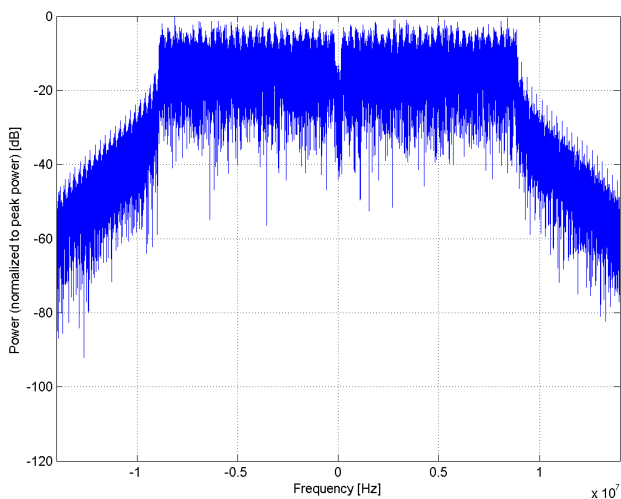
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Engineering AG**  
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10609-AAB                                         |
| PAR: <sup>1</sup>       | 8.57 dB                                           |
| MIF: <sup>2</sup>       | -5.85 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: 90%                                   |
|                         | MCS: 2                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 4096                                 |
| Bandwidth:              | 20.0 MHz                                          |
| Integration Time:       | 1.9 ms                                            |

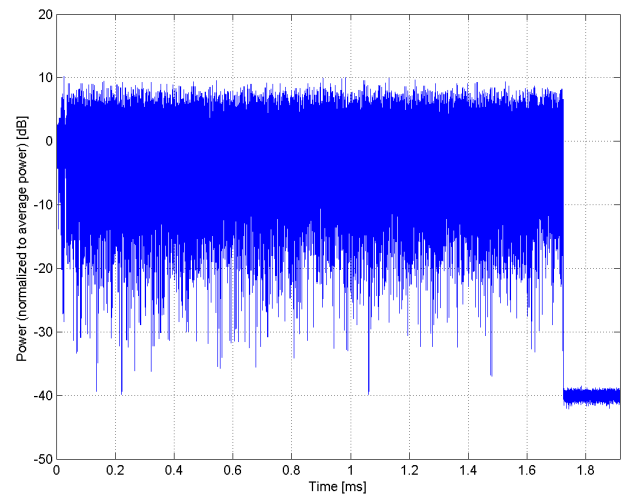
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

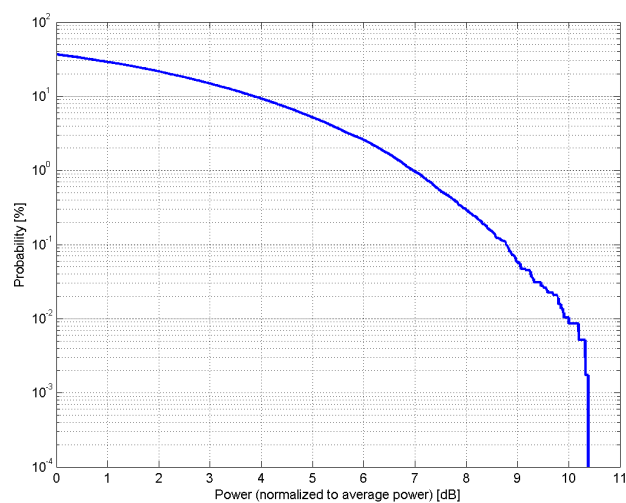


Time Domain

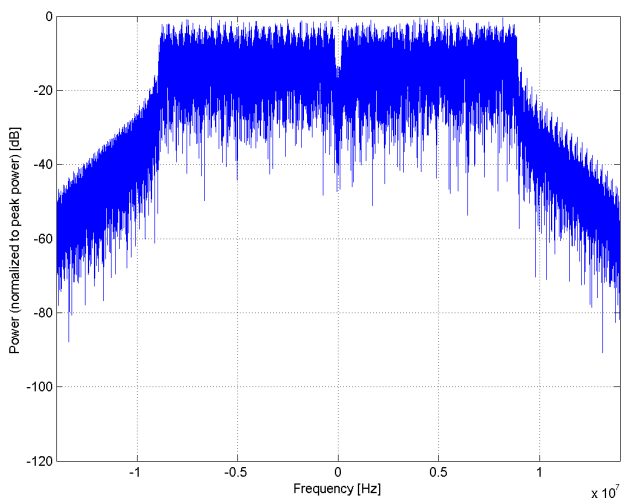
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10610-AAB                                         |
| PAR: <sup>1</sup>       | 8.78 dB                                           |
| MIF: <sup>2</sup>       | -6.15 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: 90%                                   |
|                         | MCS: 3                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 4096                                 |
| Bandwidth:              | 20.0 MHz                                          |
| Integration Time:       | 1.4 ms                                            |

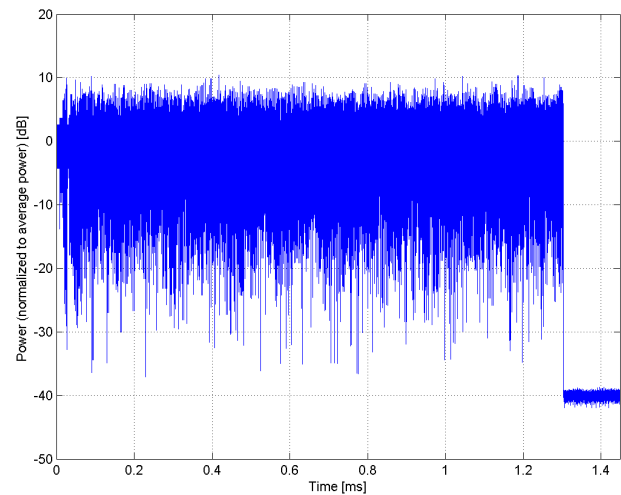
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)**

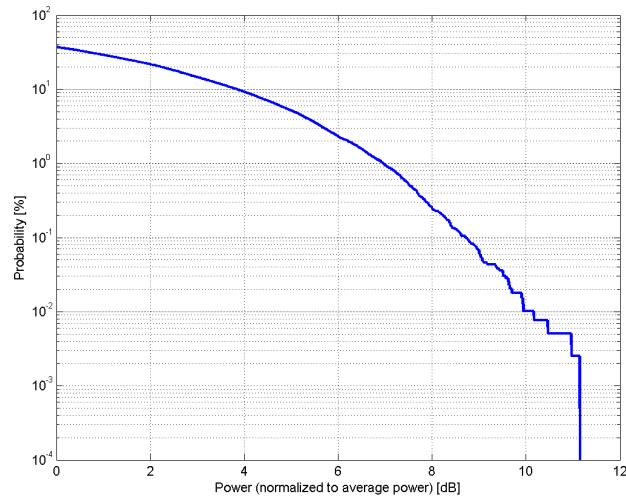
Group: WLAN  
UID: 10611-AAB

PAR: <sup>1</sup> **8.70 dB**  
MIF: <sup>2</sup> **-6.70 dB**

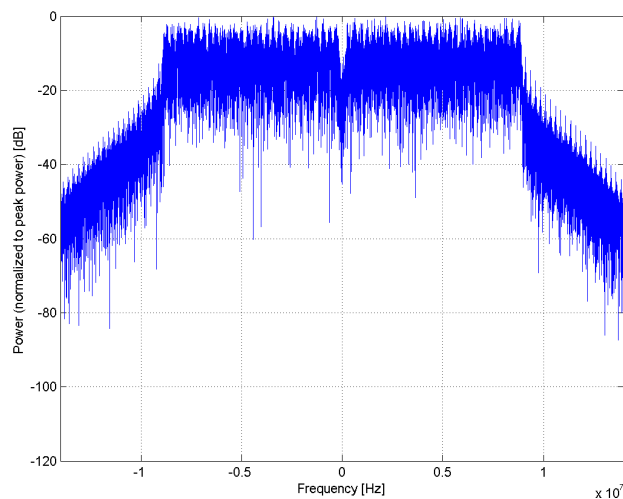
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 16-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: 90%  
MCS: 4  
Number of spatial streams: 1  
MPDU length: 4096  
Bandwidth: 20.0 MHz  
Integration Time: 1.0 ms

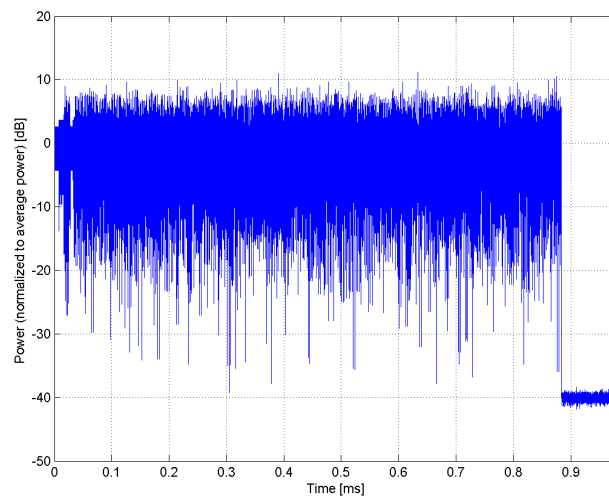
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

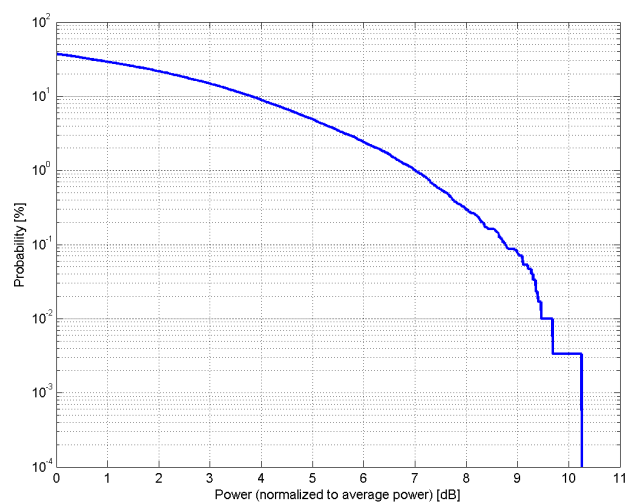


### Time Domain

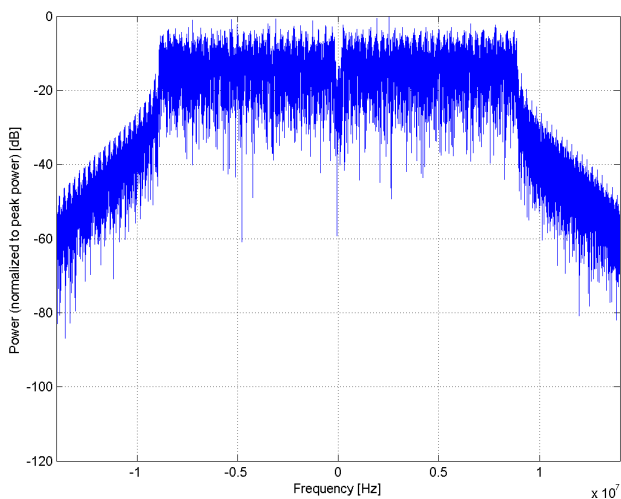
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Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10612-AAB                                         |
| PAR: <sup>1</sup>       | 8.77 dB                                           |
| MIF: <sup>2</sup>       | -7.25 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: 90%                                   |
|                         | MCS: 5                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 4096                                 |
| Bandwidth:              | 20.0 MHz                                          |
| Integration Time:       | 0.7 ms                                            |

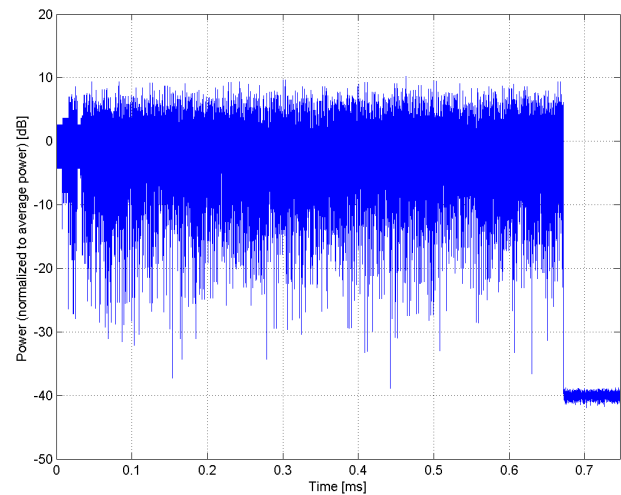
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



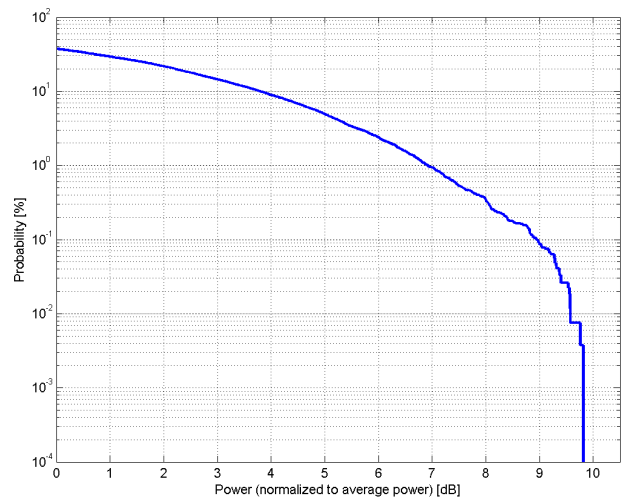
Time Domain

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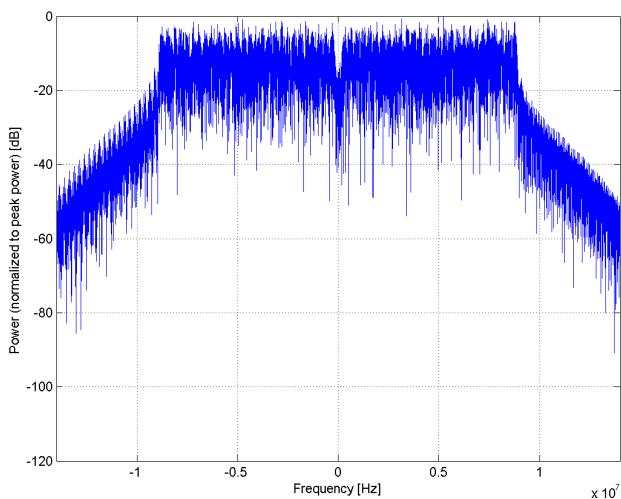
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10613-AAB                                         |
| PAR: <sup>1</sup>       | 8.94 dB                                           |
| MIF: <sup>2</sup>       | -7.58 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: 90%                                   |
|                         | MCS: 6                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 4096                                 |
| Bandwidth:              | 20.0 MHz                                          |
| Integration Time:       | 0.7 ms                                            |

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

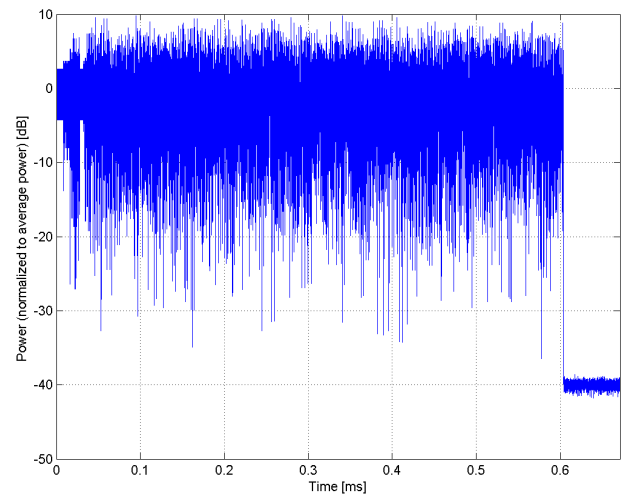
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)

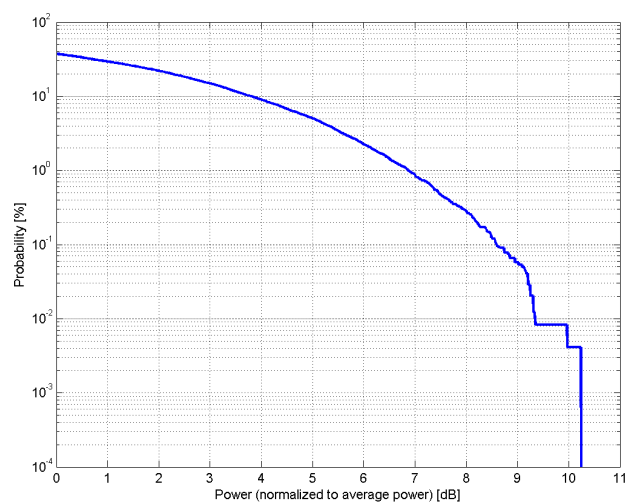
Group: WLAN  
UID: 10614-AAB

PAR: <sup>1</sup> 8.59 dB  
MIF: <sup>2</sup> -7.91 dB

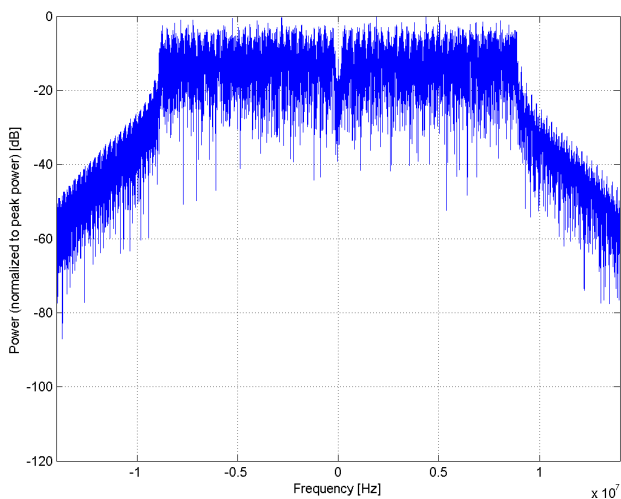
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: 90%  
MCS: 7  
Number of spatial streams: 1  
MPDU length: 4096  
Bandwidth: 20.0 MHz  
Integration Time: 0.6 ms

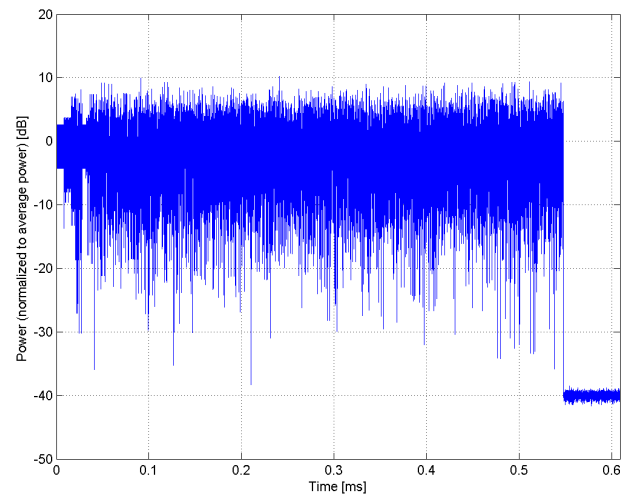
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

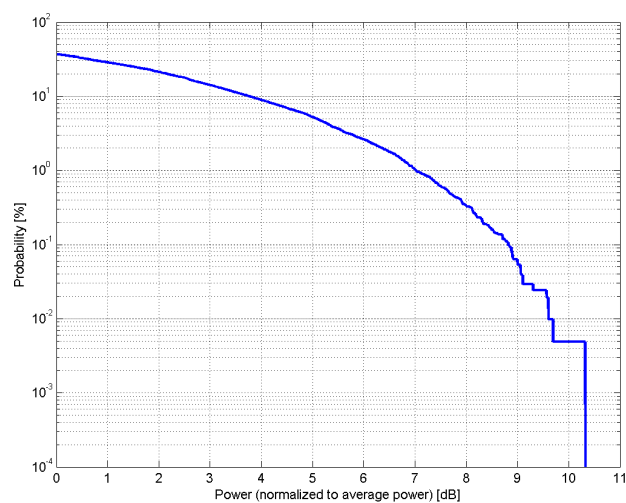


Time Domain

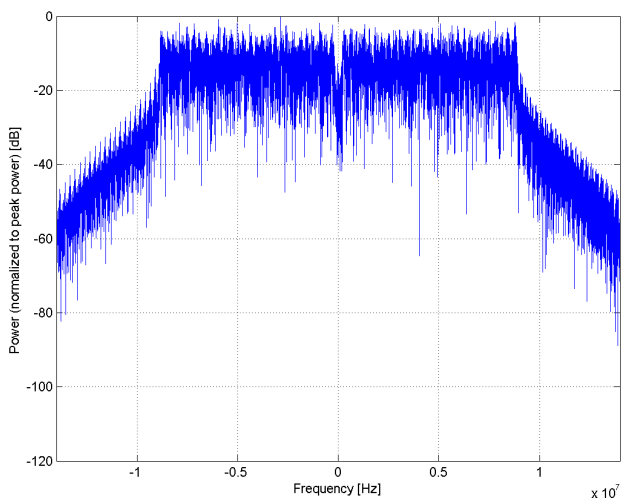
**Calibration Laboratory of  
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Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10615-AAB                                         |
| PAR: <sup>1</sup>       | 8.82 dB                                           |
| MIF: <sup>2</sup>       | -8.41 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: 90%                                   |
|                         | MCS: 8                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 4096                                 |
| Bandwidth:              | 20.0 MHz                                          |
| Integration Time:       | 0.5 ms                                            |

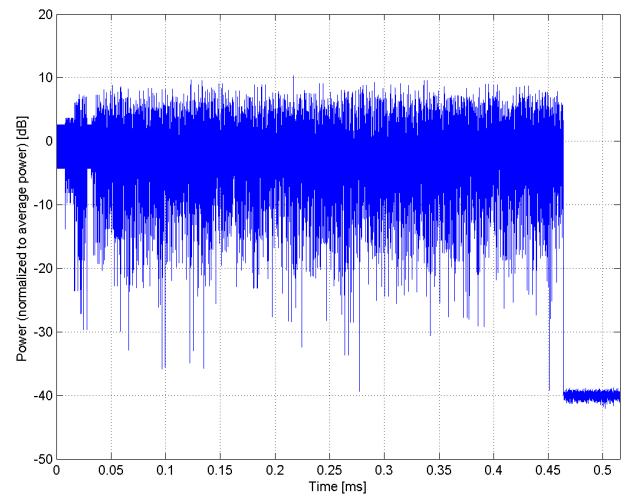
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

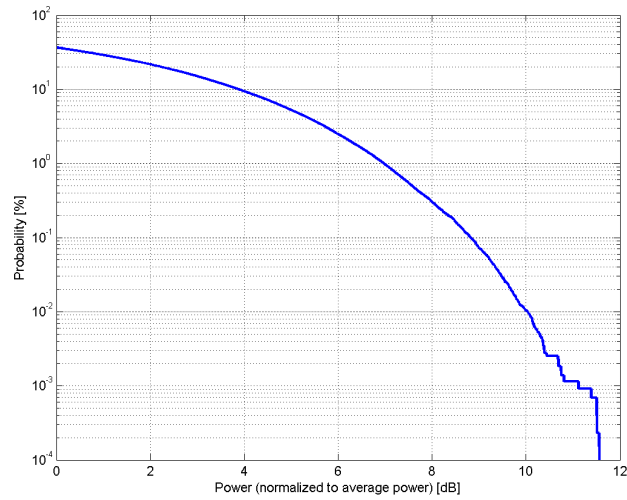


Time Domain

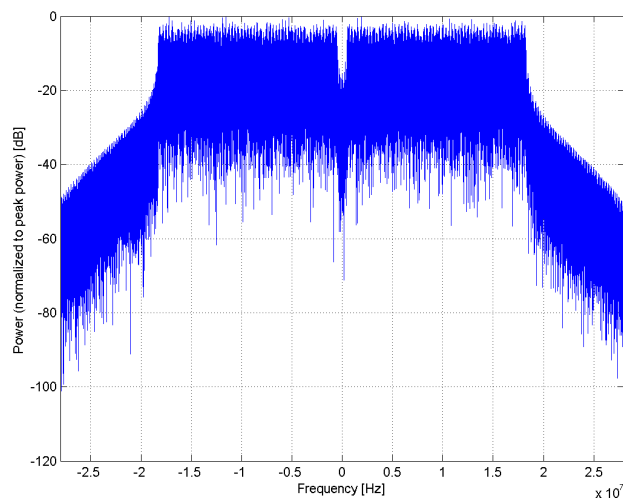
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Engineering AG**  
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10616-AAB                                         |
| PAR: <sup>1</sup>       | 8.82 dB                                           |
| MIF: <sup>2</sup>       | -5.57 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: 90%                                   |
|                         | MCS: 0                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 5.4 ms                                            |

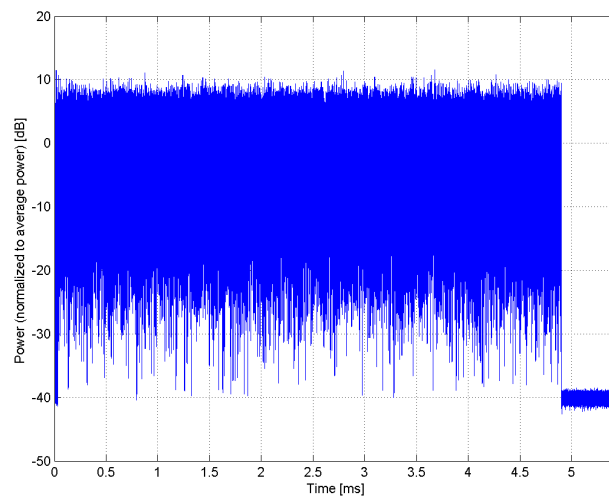
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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Name: **IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)**

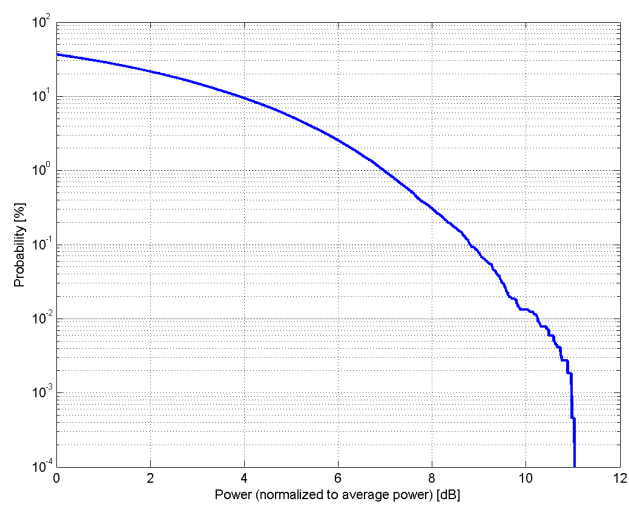
Group: WLAN  
UID: 10617-AAB

PAR: <sup>1</sup> **8.81 dB**  
MIF: <sup>2</sup> **-5.59 dB**

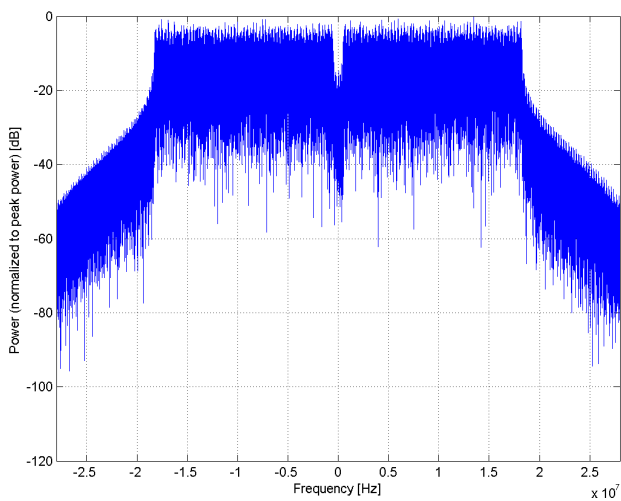
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 5710 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: 90%  
MCS: 1  
Number of spatial streams: 1  
MPDU length: 8192  
Bandwidth: 40.0 MHz  
Integration Time: 2.7 ms

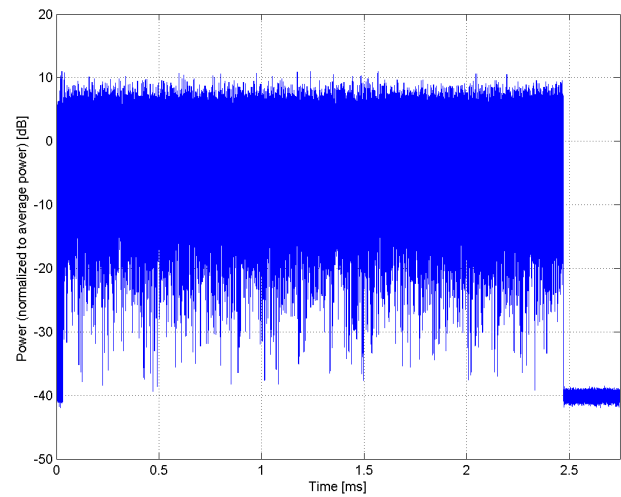
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

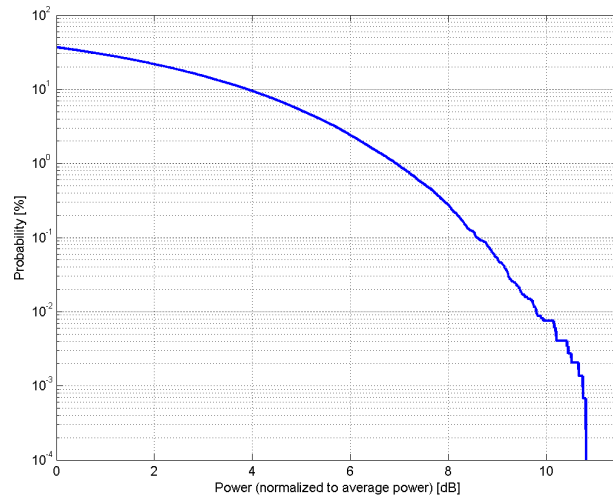


Time Domain

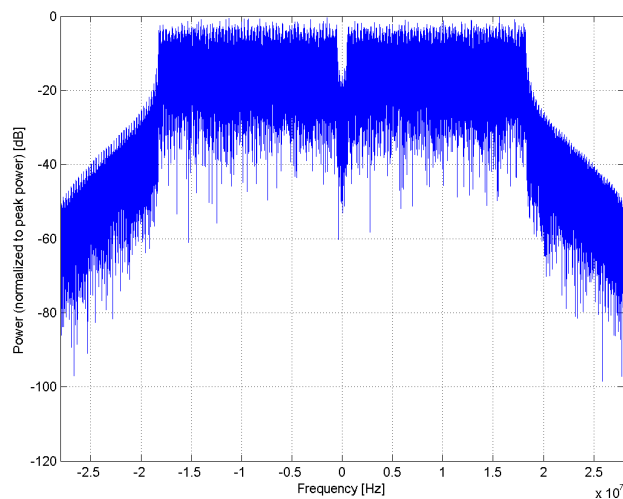
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10618-AAB                                         |
| PAR: <sup>1</sup>       | 8.58 dB                                           |
| MIF: <sup>2</sup>       | -5.78 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: 90%                                   |
|                         | MCS: 2                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 1.8 ms                                            |

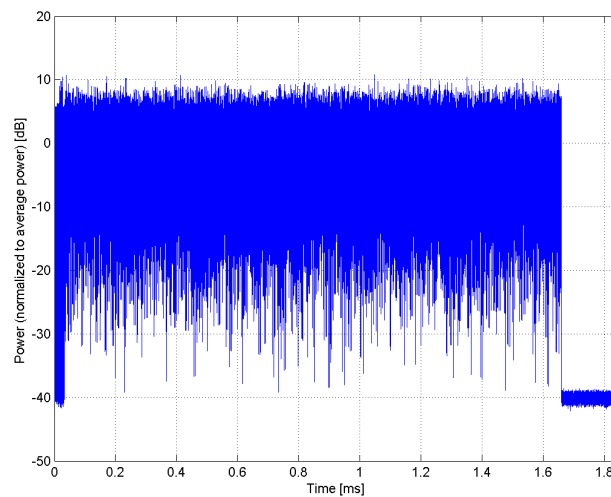
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

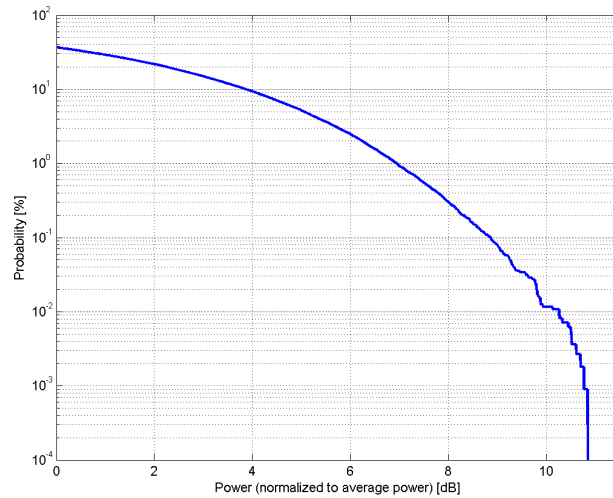


### Time Domain

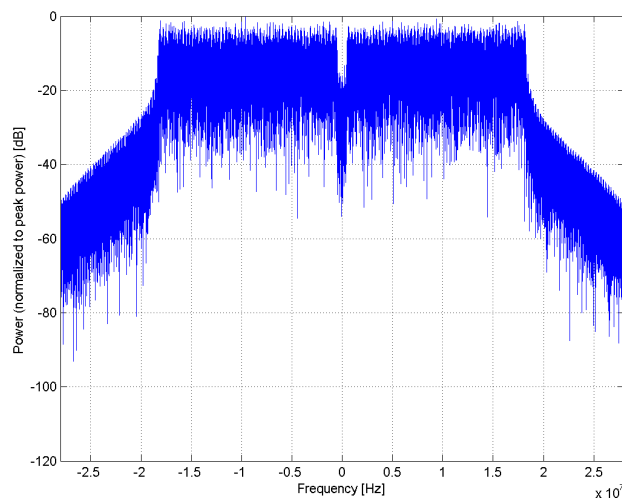
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10619-AAB                                         |
| PAR: <sup>1</sup>       | 8.86 dB                                           |
| MIF: <sup>2</sup>       | -6.02 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: 90%                                   |
|                         | MCS: 3                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 1.4 ms                                            |

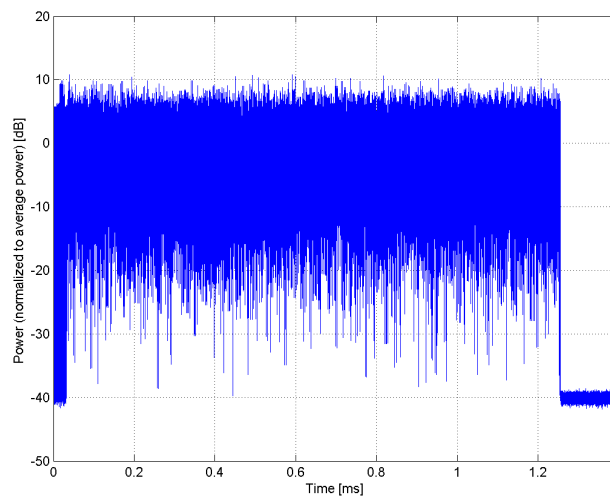
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

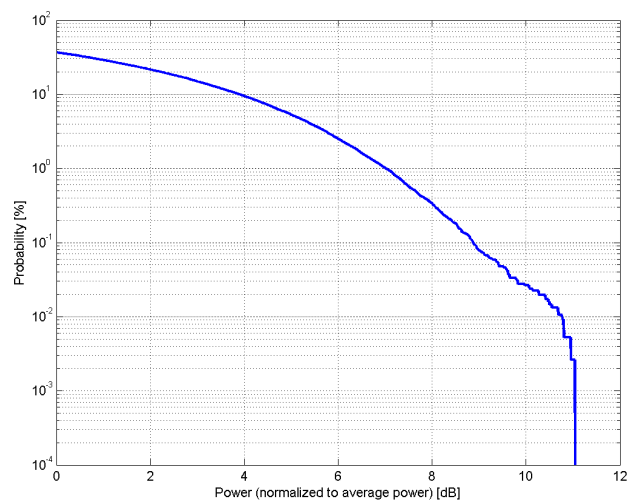


### Time Domain

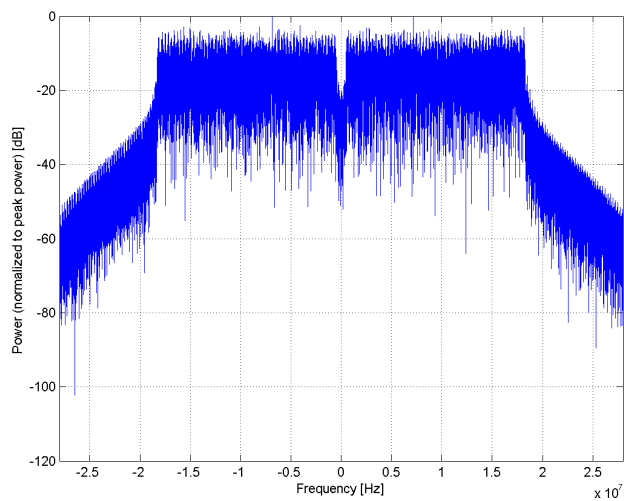
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10620-AAB                                         |
| PAR: <sup>1</sup>       | 8.87 dB                                           |
| MIF: <sup>2</sup>       | -6.57 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: 90%                                   |
|                         | MCS: 4                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 0.9 ms                                            |

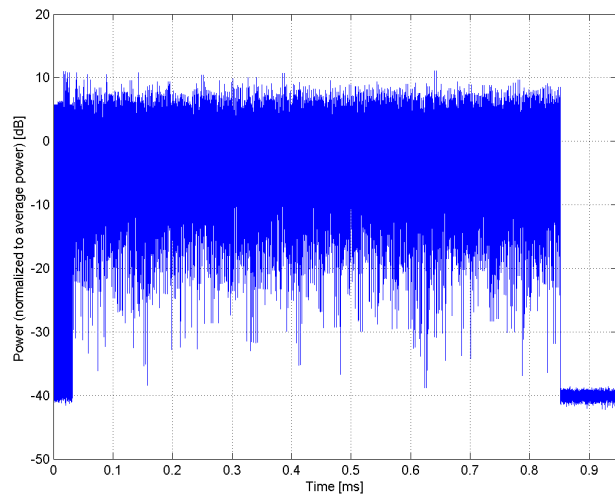
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



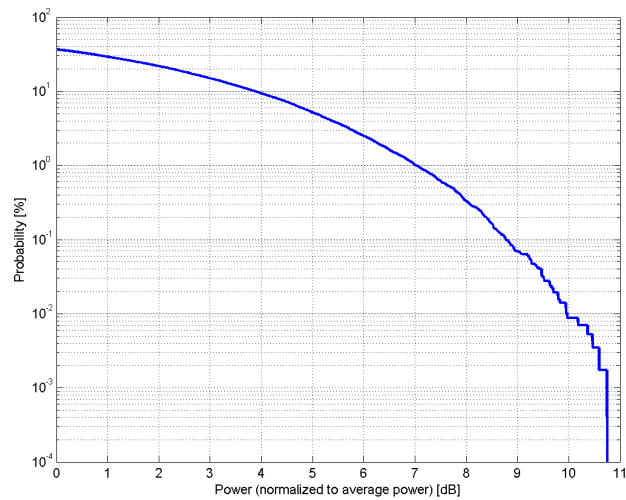
Time Domain

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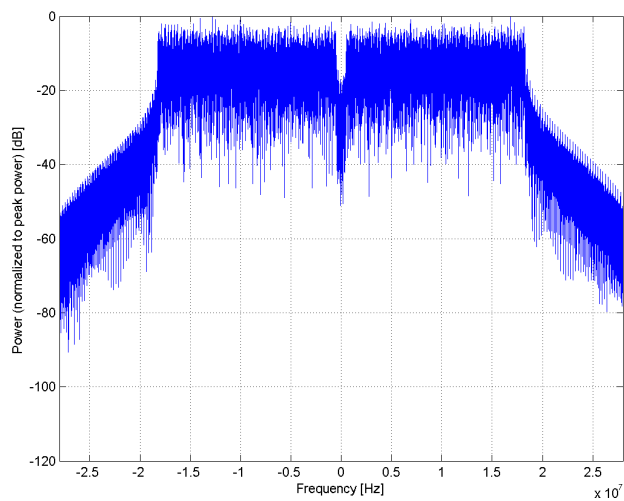
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10621-AAB                                         |
| PAR: <sup>1</sup>       | 8.77 dB                                           |
| MIF: <sup>2</sup>       | -6.92 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: 90%                                   |
|                         | MCS: 5                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 0.7 ms                                            |

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

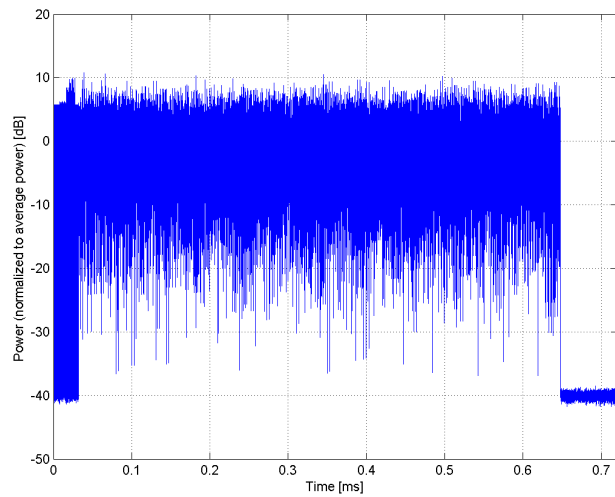
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



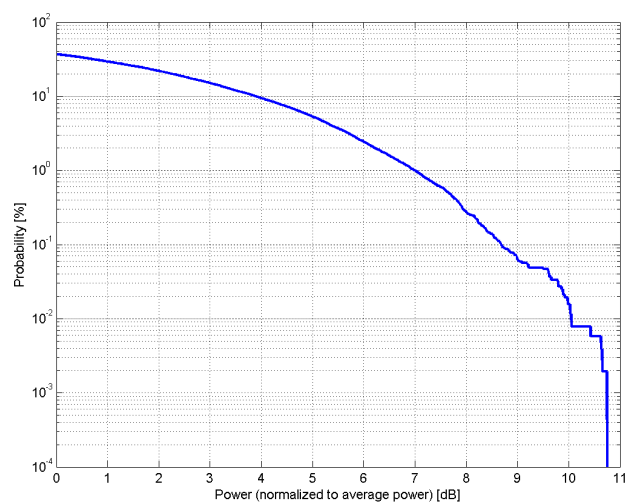
Time Domain

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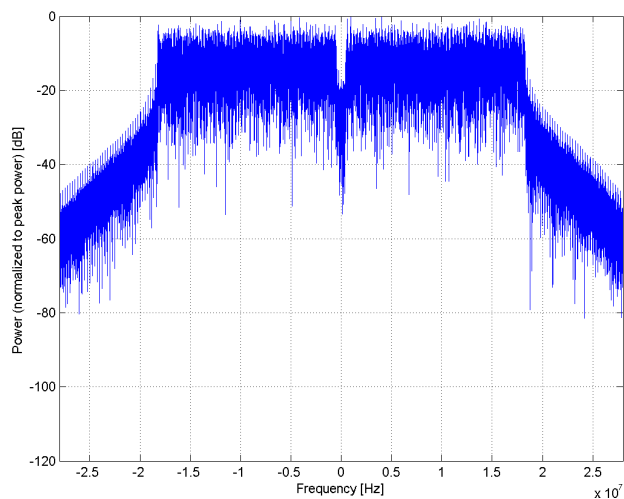
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10622-AAB                                         |
| PAR: <sup>1</sup>       | 8.68 dB                                           |
| MIF: <sup>2</sup>       | -7.33 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: 90%                                   |
|                         | MCS: 6                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 0.6 ms                                            |

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

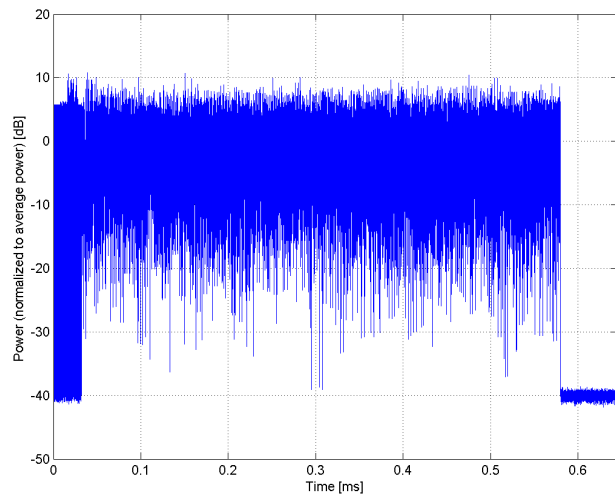
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

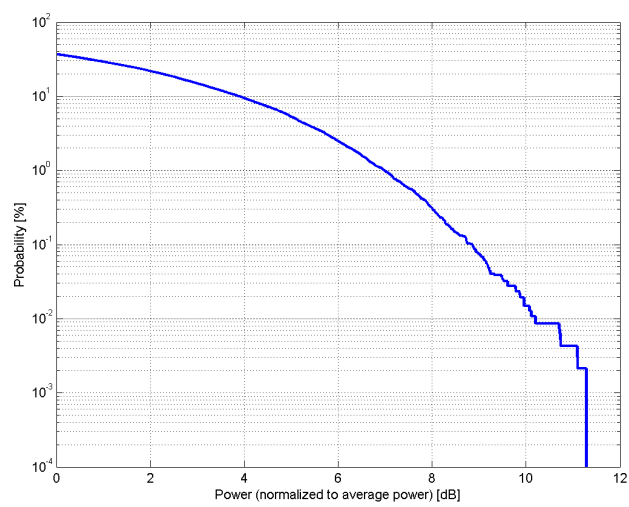


Time Domain

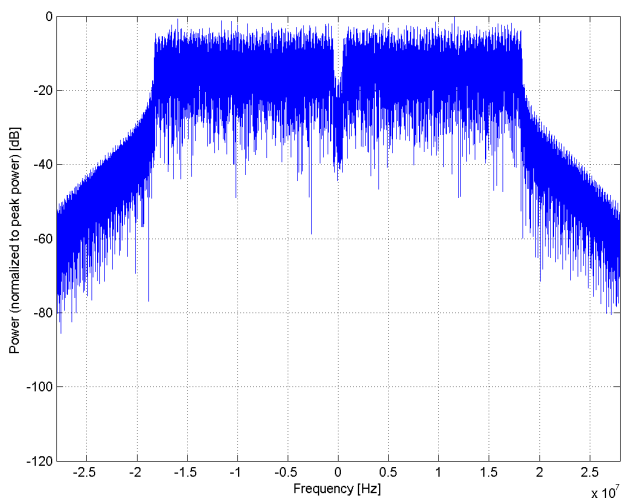
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10623-AAB                                         |
| PAR: <sup>1</sup>       | 8.82 dB                                           |
| MIF: <sup>2</sup>       | -7.44 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: 40MHz                                  |
|                         | Duty cycle: 90%                                   |
|                         | MCS: 7                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 0.6 ms                                            |

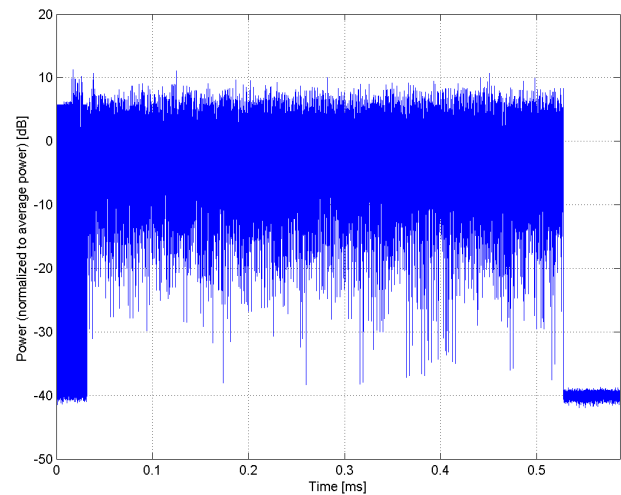
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



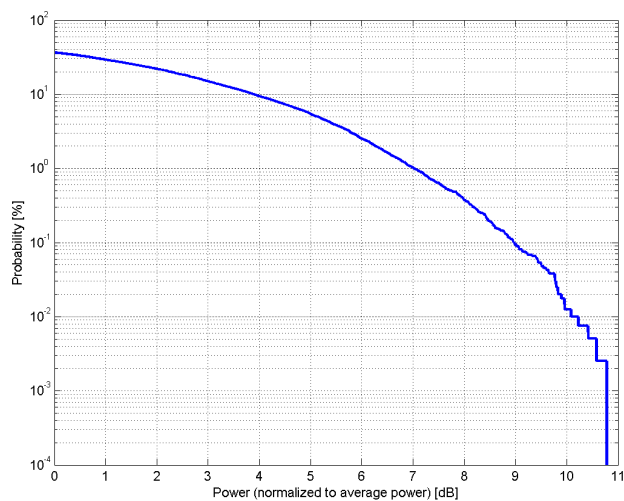
Time Domain

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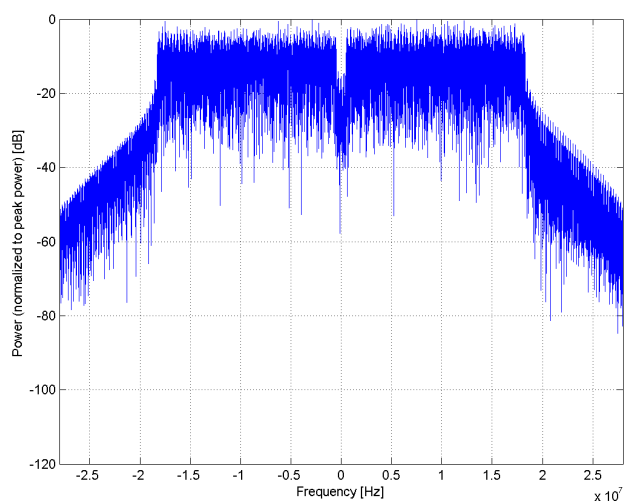
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10624-AAB                                         |
| PAR: <sup>1</sup>       | 8.96 dB                                           |
| MIF: <sup>2</sup>       | -7.73 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:         | 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: 40MHz                                  |
|                         | Duty cycle: 90%                                   |
|                         | MCS: 8                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 40.0 MHz                                          |
| Integration Time:       | 0.5 ms                                            |

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

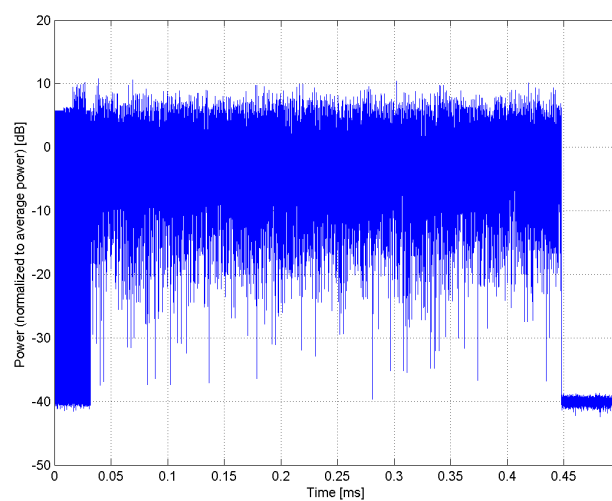
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



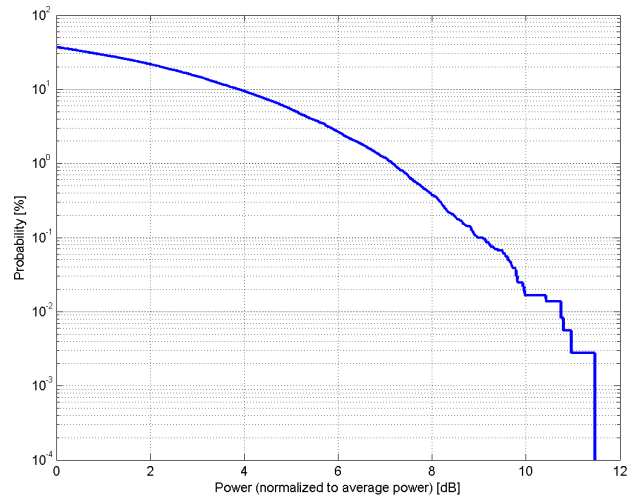
### Time Domain

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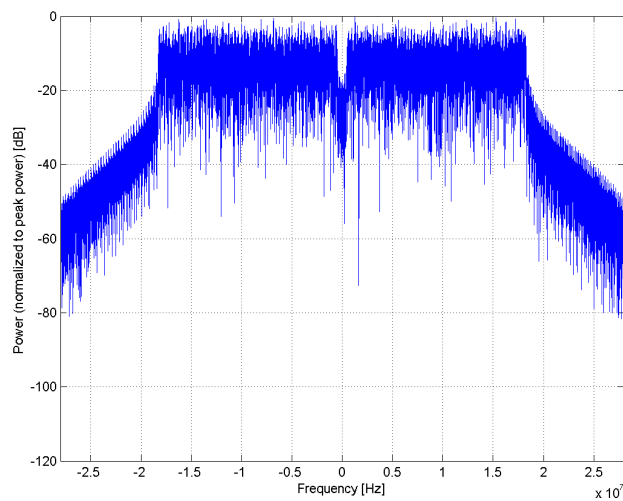
|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)                                                                                                                                                                                                                                                                 |
| Group:                  | WLAN                                                                                                                                                                                                                                                                                                              |
| UID:                    | 10625-AAB                                                                                                                                                                                                                                                                                                         |
| PAR: <sup>1</sup>       | 8.96 dB                                                                                                                                                                                                                                                                                                           |
| MIF: <sup>2</sup>       | -8.15 dB                                                                                                                                                                                                                                                                                                          |
| Standard Reference:     | IEEE 802.11-2013                                                                                                                                                                                                                                                                                                  |
| Category:               | FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01<br>Random amplitude modulation                                                                                                                                                                                                                                     |
| Modulation:             | 256-QAM                                                                                                                                                                                                                                                                                                           |
| Frequency Band:         | WLAN 2.4GHz (2412.0 - 2484.0 MHz)<br>WLAN 5GHz (4915.0 - 5825.0 MHz)<br>U-NII-1, U-NII-2A (5170 - 5330 MHz)<br>U-NII-2C Standalone (5490 - 5710 MHz)<br>U-NII-2C <5.65 GHz (5490 - 5650 MHz)<br>U-NII-3 Standalone (5735 - 5835 MHz)<br>U-NII-2C, U-NII-3 (5650 - 5835 MHz)<br>Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bandwidth: 40MHz<br>Duty cycle: 90%<br>MCS: 9<br>Number of spatial streams: 1<br>MPDU length: 8192                                                                                                                                                                                                                |
| Bandwidth:              | 40.0 MHz                                                                                                                                                                                                                                                                                                          |
| Integration Time:       | 0.5 ms                                                                                                                                                                                                                                                                                                            |

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

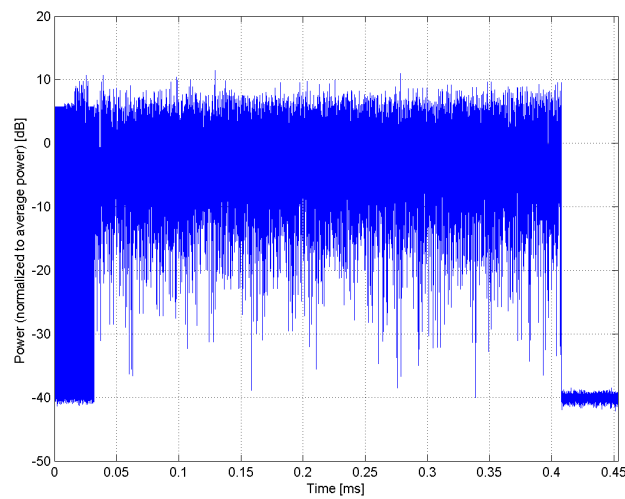
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

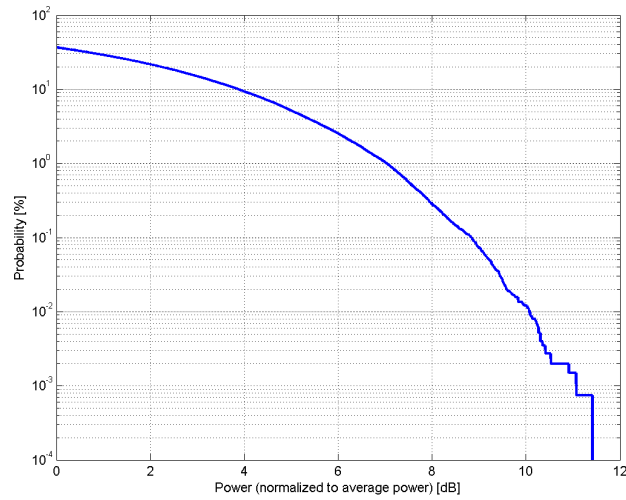


### Time Domain

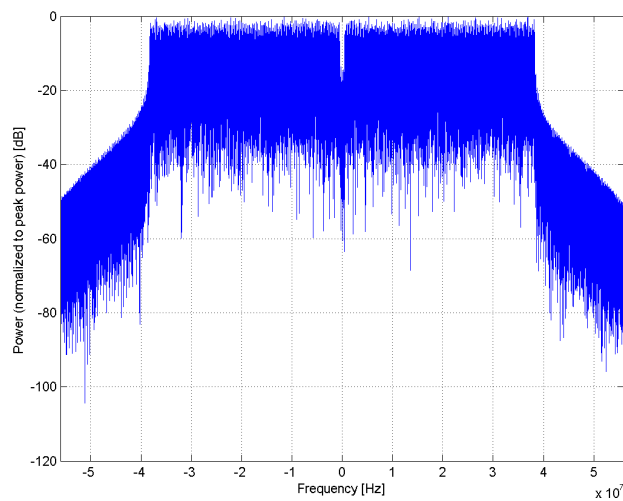
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10626-AAB                                         |
| PAR: <sup>1</sup>       | 8.83 dB                                           |
| MIF: <sup>2</sup>       | -5.64 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: 80MHz                                  |
|                         | Duty cycle: 90%                                   |
|                         | MCS: 0                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 2.5 ms                                            |

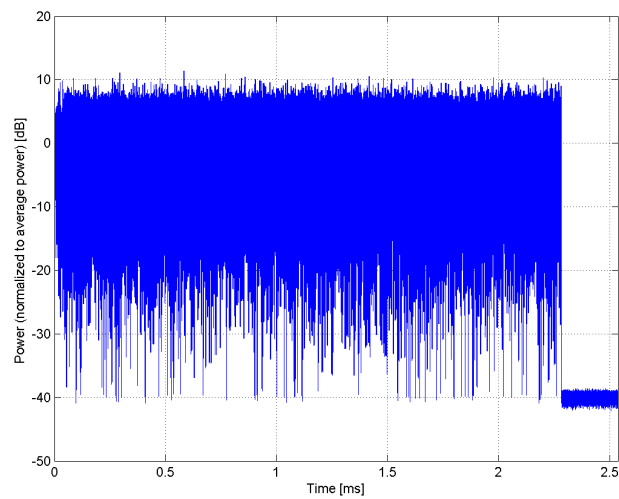
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



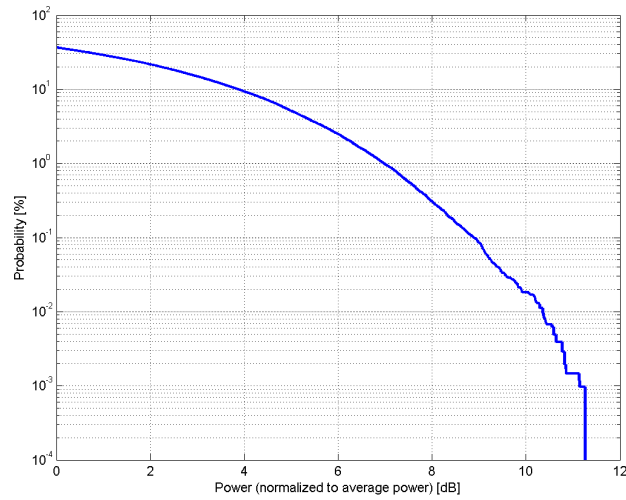
### Time Domain

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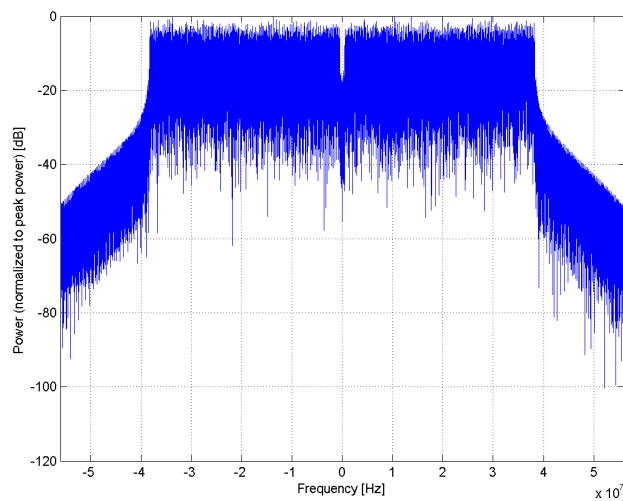
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10627-AAB                                         |
| PAR: <sup>1</sup>       | 8.88 dB                                           |
| MIF: <sup>2</sup>       | -6.22 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: 90%                                   |
|                         | MCS: 1                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 1.3 ms                                            |

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

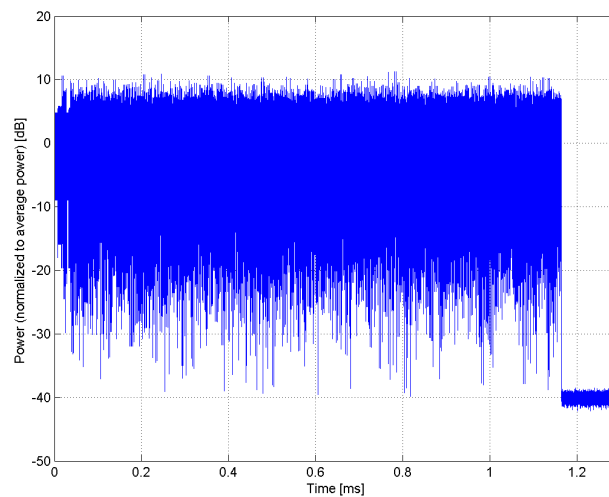
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

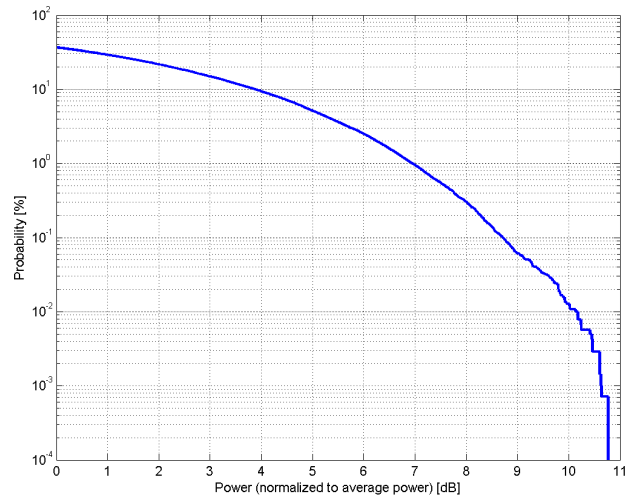


### Time Domain

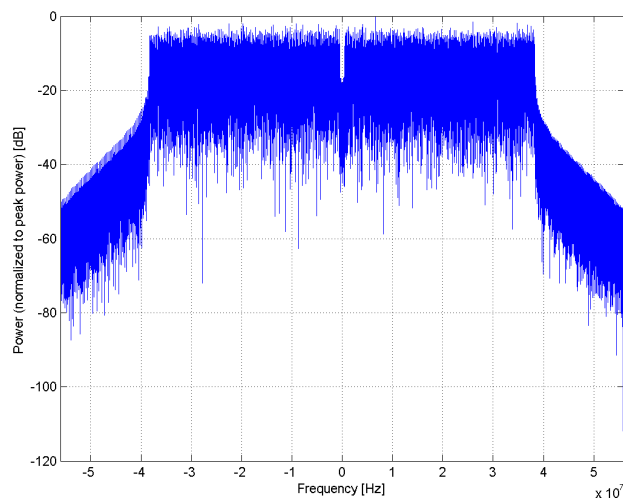
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10628-AAB                                         |
| PAR: <sup>1</sup>       | 8.71 dB                                           |
| MIF: <sup>2</sup>       | -6.84 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: 90%                                   |
|                         | MCS: 2                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 0.9 ms                                            |

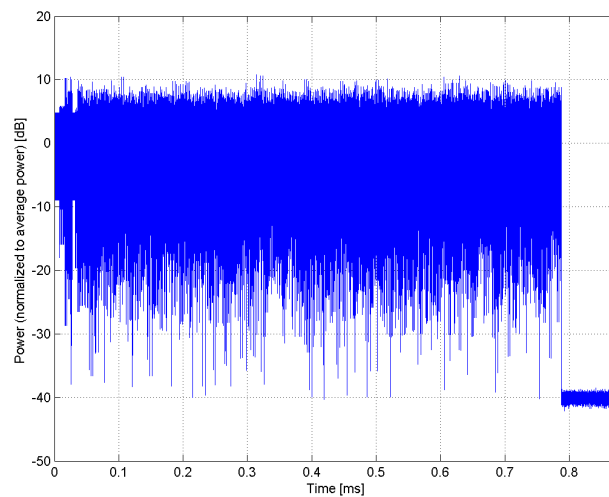
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

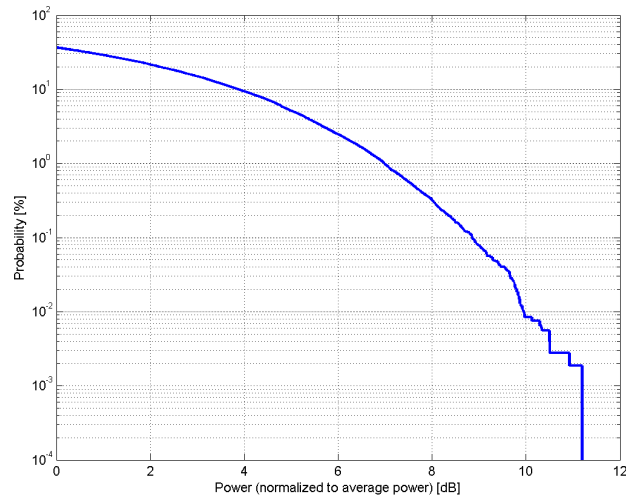


### Time Domain

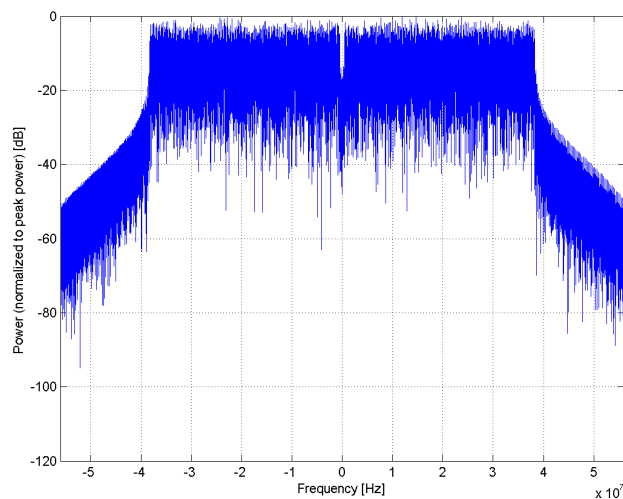
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10629-AAB                                         |
| PAR: <sup>1</sup>       | 8.85 dB                                           |
| MIF: <sup>2</sup>       | -7.44 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:         | 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: 90%                                   |
|                         | MCS: 3                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 0.7 ms                                            |

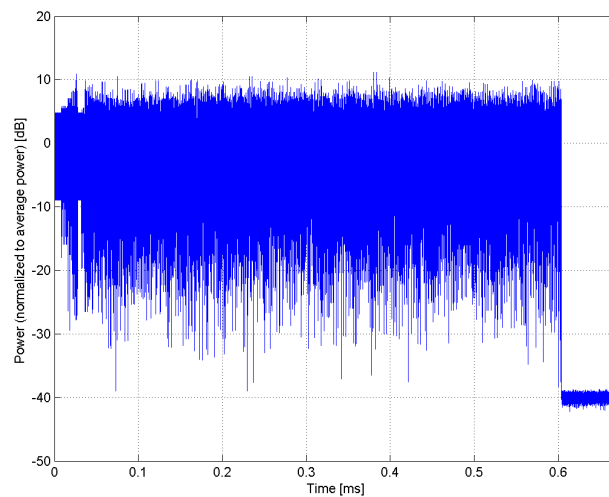
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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Name: **IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)**

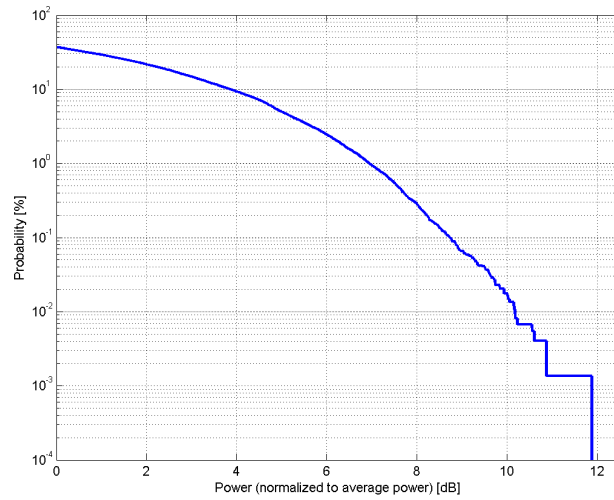
Group: WLAN  
UID: 10630-AAB

PAR: <sup>1</sup> **8.72 dB**  
MIF: <sup>2</sup> **-8.48 dB**

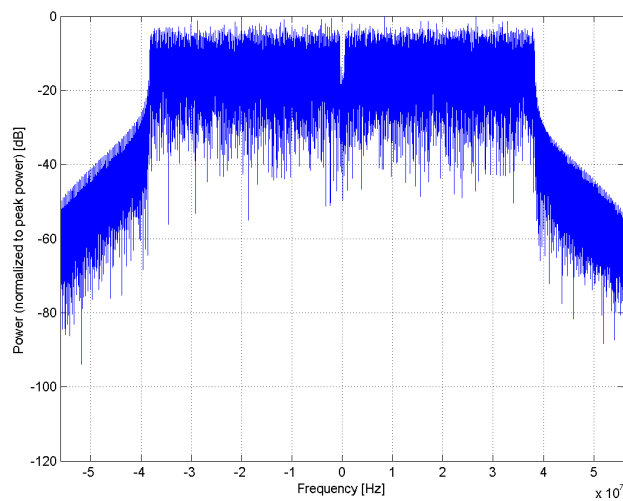
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 16-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: 80MHz  
Duty cycle: 90%  
MCS: 4  
Number of spatial streams: 1  
MPDU length: 8192  
Bandwidth: 80.0 MHz  
Integration Time: 0.5 ms

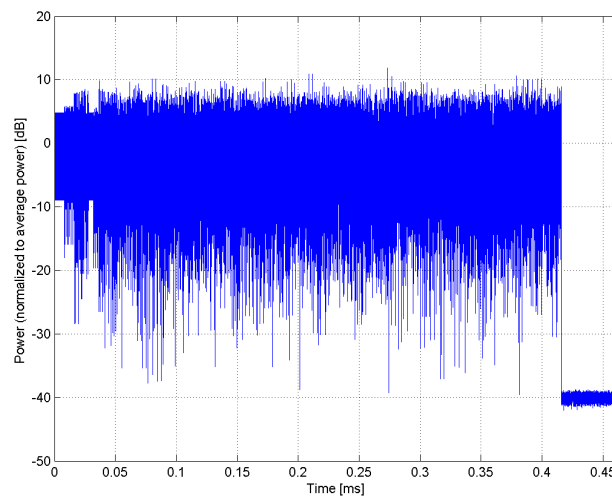
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



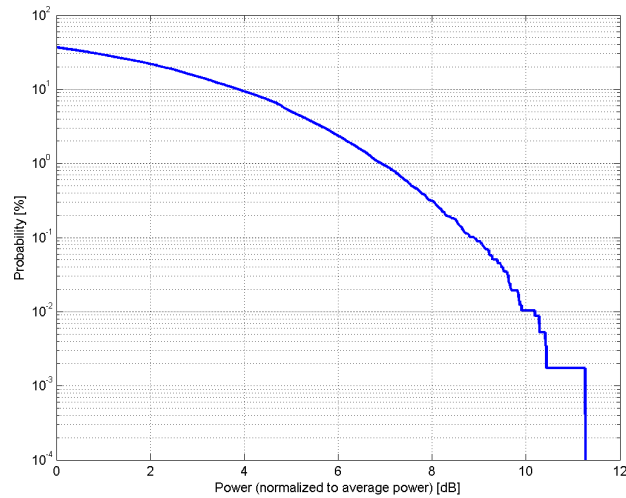
### Time Domain

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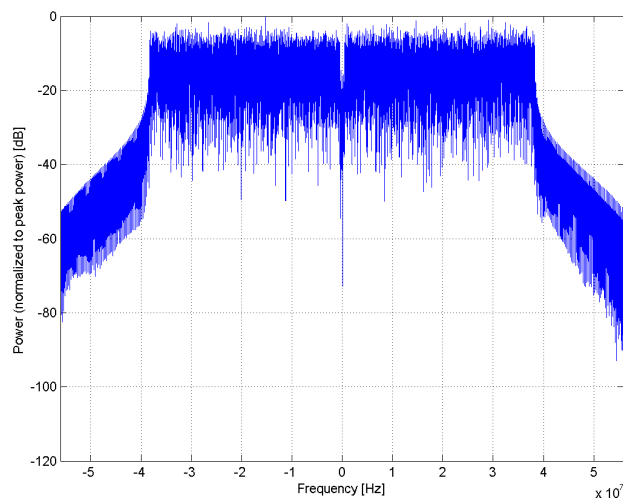
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10631-AAB                                         |
| PAR: <sup>1</sup>       | 8.81 dB                                           |
| MIF: <sup>2</sup>       | -9.17 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: 90%                                   |
|                         | MCS: 5                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 0.4 ms                                            |

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

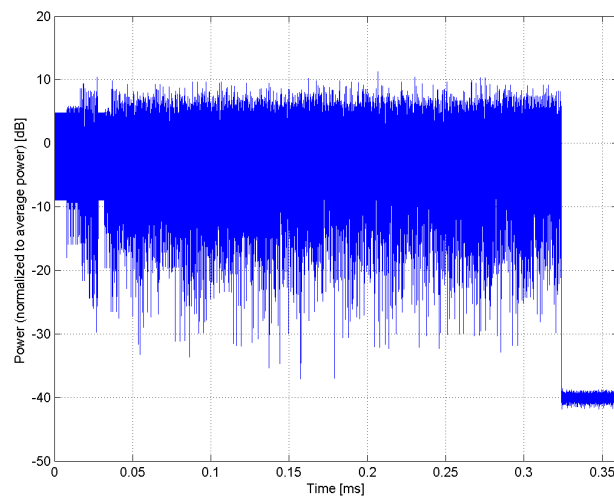
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

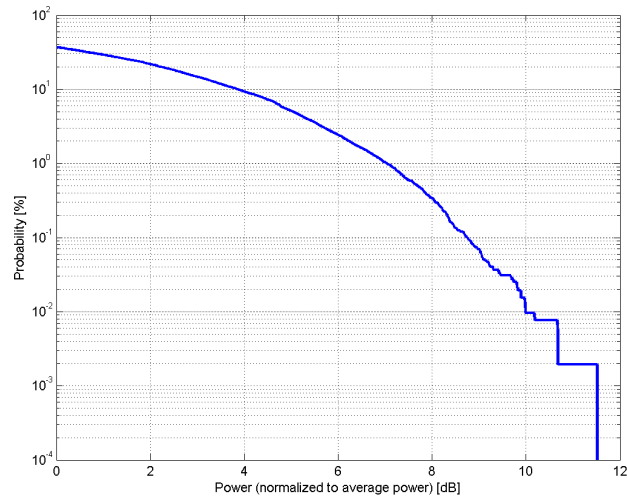


### Time Domain

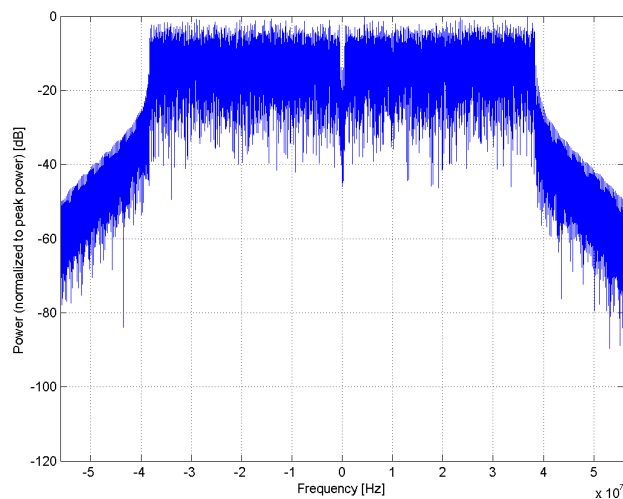
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10632-AAB                                         |
| PAR: <sup>1</sup>       | 8.74 dB                                           |
| MIF: <sup>2</sup>       | -9.64 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: 90%                                   |
|                         | MCS: 6                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 0.3 ms                                            |

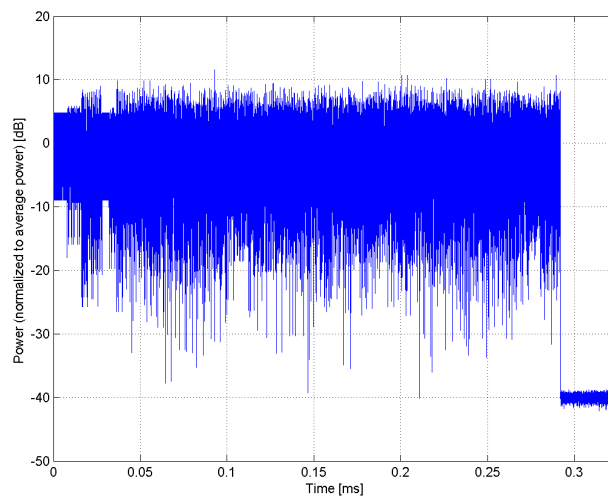
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



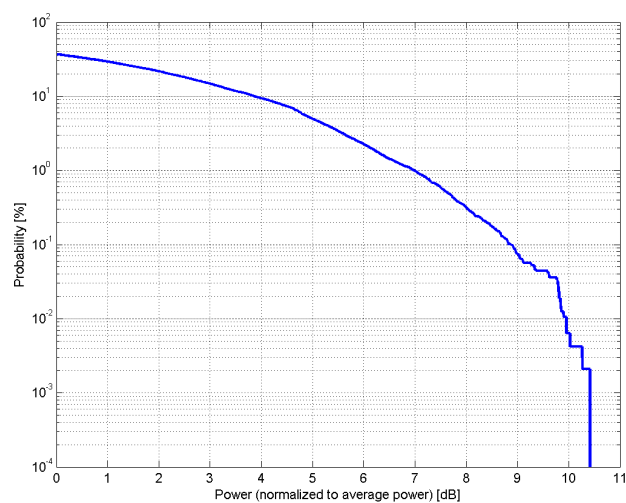
### Time Domain

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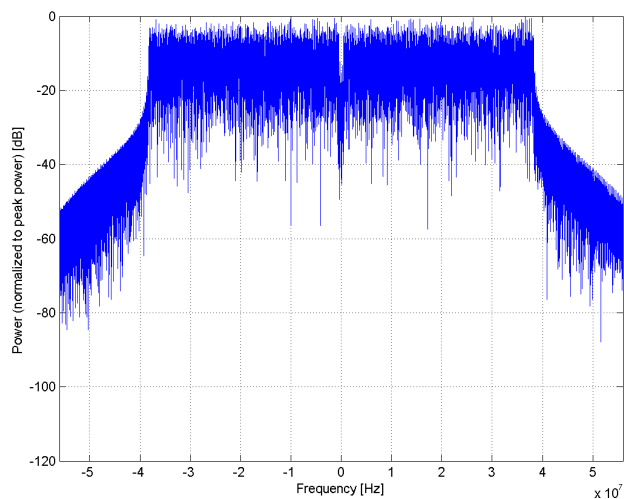
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10633-AAB                                         |
| PAR: <sup>1</sup>       | 8.83 dB                                           |
| MIF: <sup>2</sup>       | -9.97 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: 90%                                   |
|                         | MCS: 7                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 0.3 ms                                            |

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

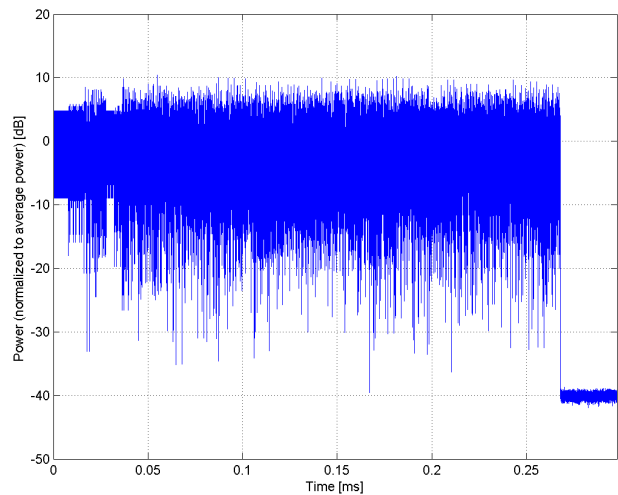
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

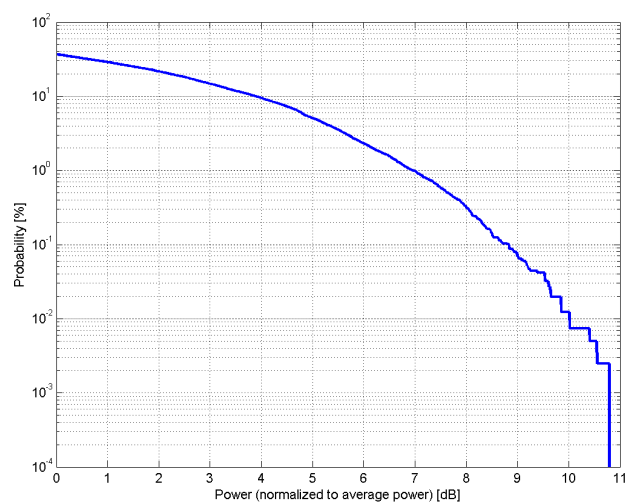


Time Domain

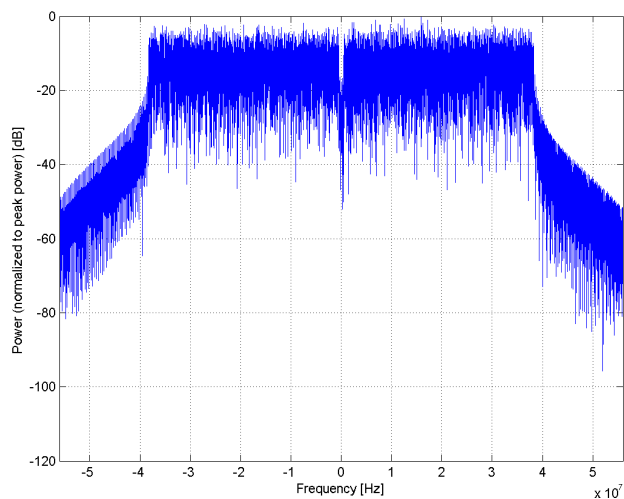
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|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle) |
| Group:                  | WLAN                                              |
| UID:                    | 10634-AAB                                         |
| PAR: <sup>1</sup>       | 8.80 dB                                           |
| MIF: <sup>2</sup>       | -10.92 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:         | 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: 80MHz                                  |
|                         | Duty cycle: 90%                                   |
|                         | MCS: 8                                            |
|                         | Number of spatial streams: 1                      |
|                         | MPDU length: 8192                                 |
| Bandwidth:              | 80.0 MHz                                          |
| Integration Time:       | 0.3 ms                                            |

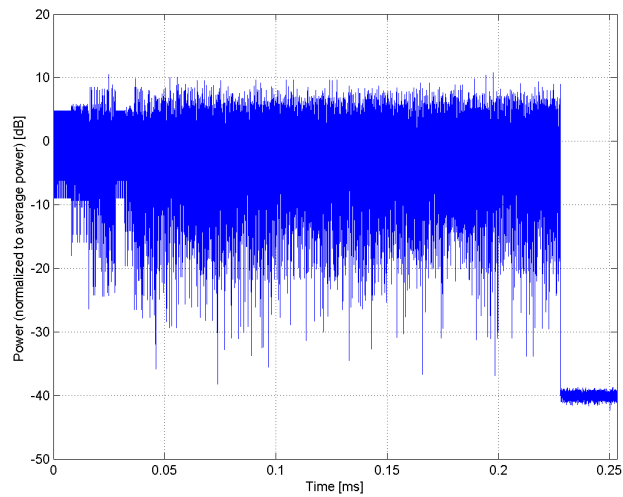
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

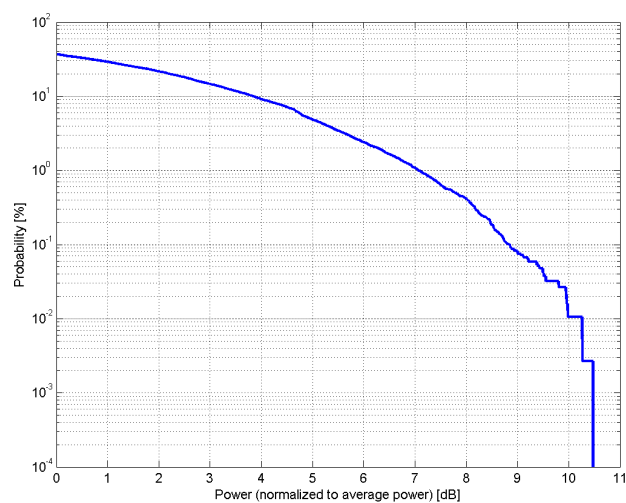


Time Domain

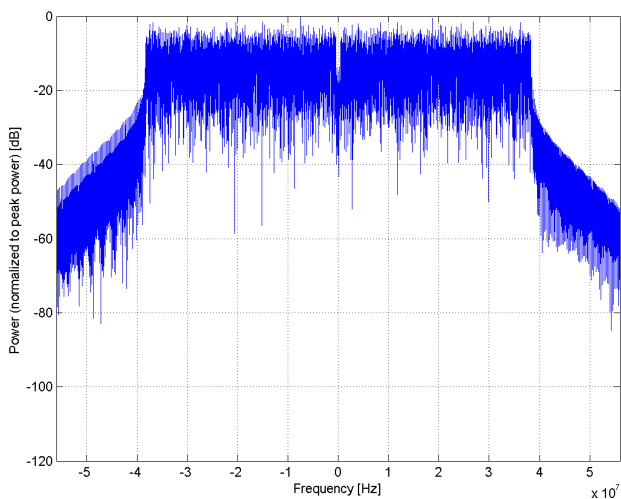
**Calibration Laboratory of  
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Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)                                                                                                                                                                                                                                                                 |
| Group:                  | WLAN                                                                                                                                                                                                                                                                                                              |
| UID:                    | 10635-AAB                                                                                                                                                                                                                                                                                                         |
| PAR: <sup>1</sup>       | 8.81 dB                                                                                                                                                                                                                                                                                                           |
| MIF: <sup>2</sup>       | -11.43 dB                                                                                                                                                                                                                                                                                                         |
| Standard Reference:     | IEEE 802.11-2013                                                                                                                                                                                                                                                                                                  |
| Category:               | FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01<br>Random amplitude modulation                                                                                                                                                                                                                                     |
| Modulation:             | 256-QAM                                                                                                                                                                                                                                                                                                           |
| Frequency Band:         | WLAN 2.4GHz (2412.0 - 2484.0 MHz)<br>WLAN 5GHz (4915.0 - 5825.0 MHz)<br>U-NII-1, U-NII-2A (5170 - 5330 MHz)<br>U-NII-2C Standalone (5490 - 5710 MHz)<br>U-NII-2C <5.65 GHz (5490 - 5650 MHz)<br>U-NII-3 Standalone (5735 - 5835 MHz)<br>U-NII-2C, U-NII-3 (5650 - 5835 MHz)<br>Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bandwidth: 80MHz<br>Duty cycle: 90%<br>MCS: 9<br>Number of spatial streams: 1<br>MPDU length: 8192                                                                                                                                                                                                                |
| Bandwidth:              | 80.0 MHz                                                                                                                                                                                                                                                                                                          |
| Integration Time:       | 0.2 ms                                                                                                                                                                                                                                                                                                            |

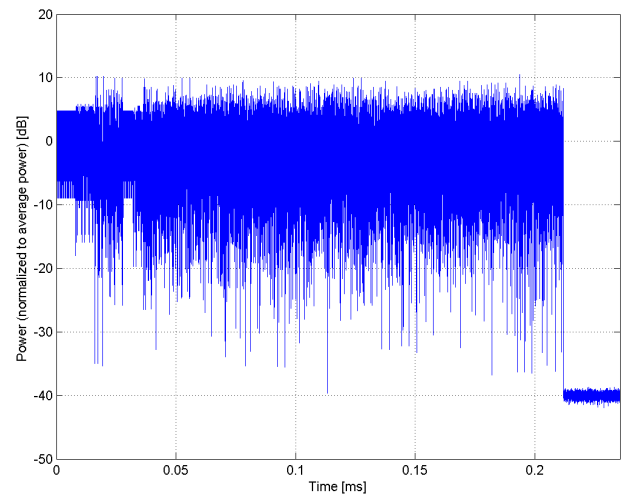
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)**

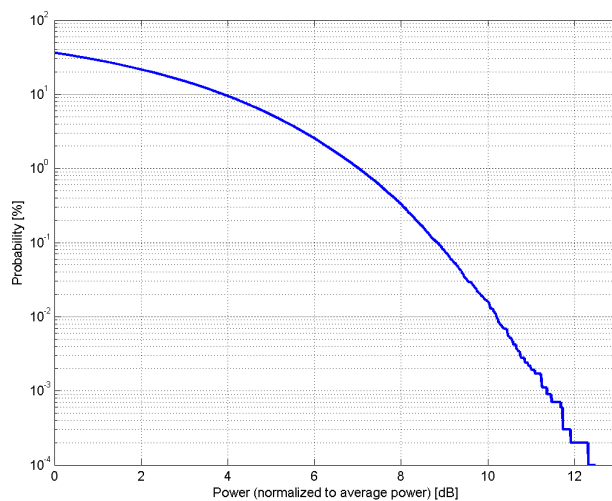
Group: WLAN  
UID: 10636-AAC

PAR: <sup>1</sup> **8.83 dB**  
MIF: <sup>2</sup> **-5.56 dB**

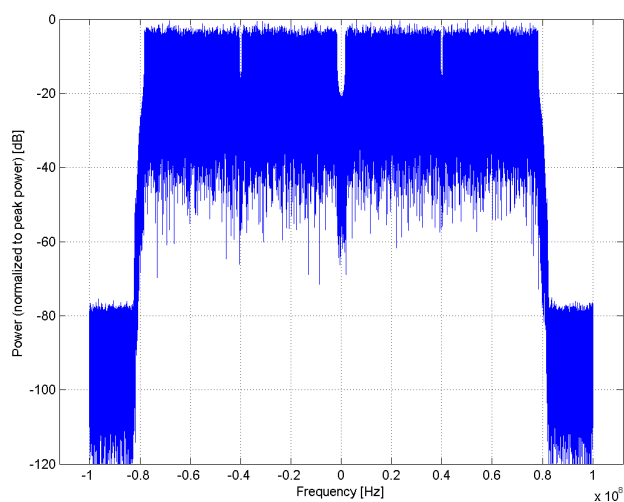
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Random amplitude modulation  
Category: BPSK  
Modulation: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 5710 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: Bandwidth: 160MHz  
Duty cycle: 90%  
MCS: 0  
Number of spatial streams: 1  
MPDU length: 32768  
Bandwidth: 160.0 MHz  
Integration Time: 5.0 ms

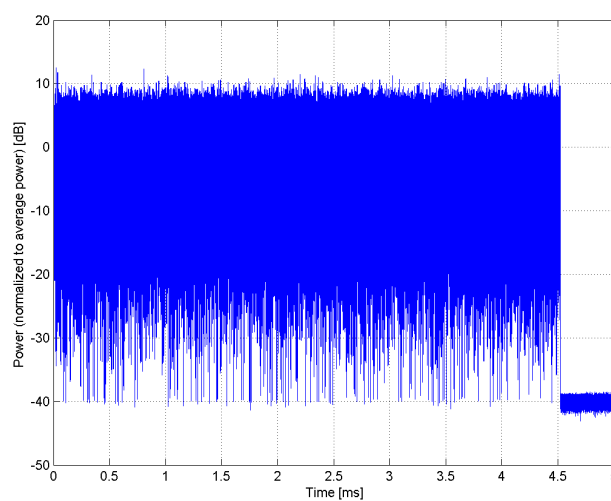
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



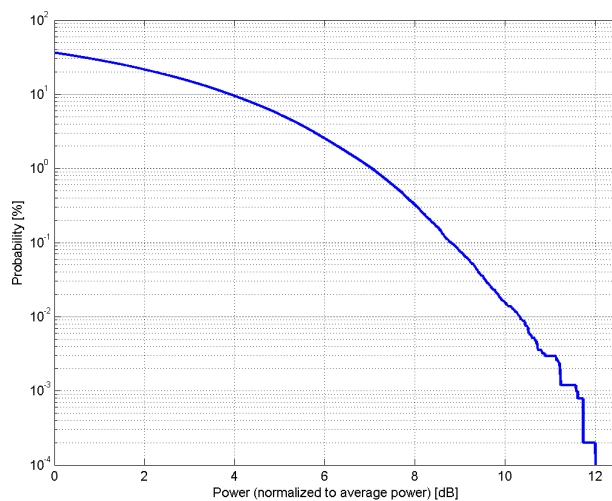
### Time Domain

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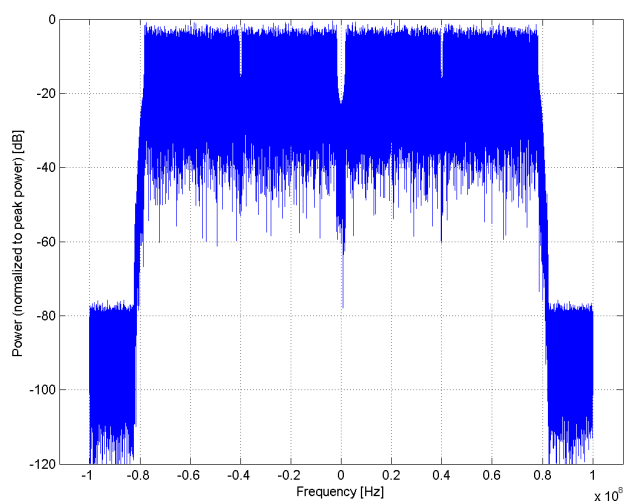
|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) |
| Group:                  | WLAN                                               |
| UID:                    | 10637-AAC                                          |
| PAR: <sup>1</sup>       | 8.79 dB                                            |
| MIF: <sup>2</sup>       | -5.61 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: 160MHz                                  |
|                         | Duty cycle: 90%                                    |
|                         | MCS: 1                                             |
|                         | Number of spatial streams: 1                       |
|                         | MPDU length: 32768                                 |
| Bandwidth:              | 160.0 MHz                                          |
| Integration Time:       | 2.5 ms                                             |

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

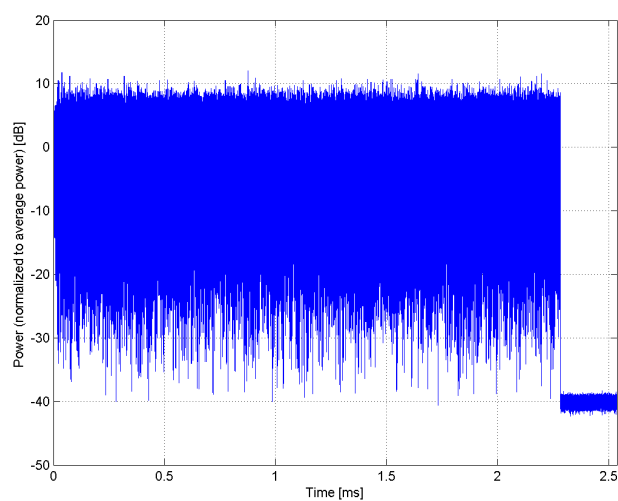
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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Name: **IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)**

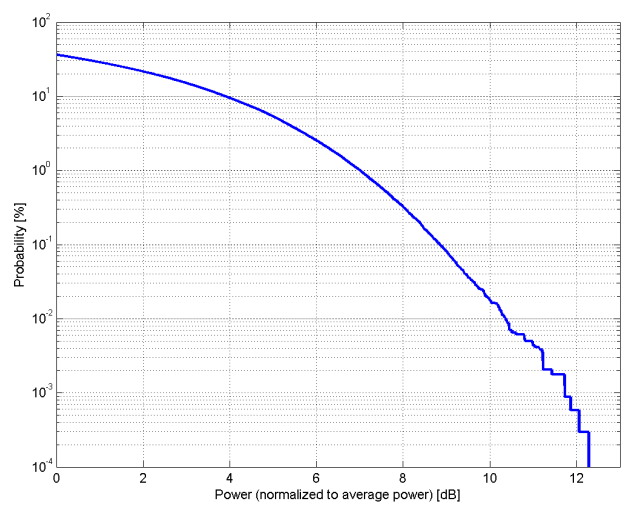
Group: WLAN  
UID: 10638-AAC

PAR: <sup>1</sup> **8.86 dB**  
MIF: <sup>2</sup> **-5.84 dB**

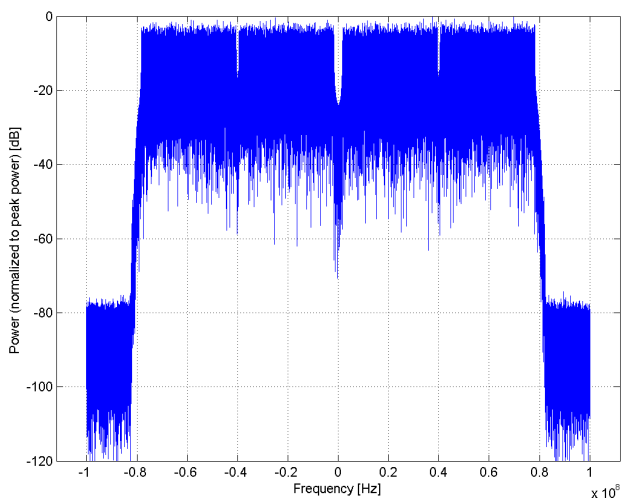
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: QPSK  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 5710 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: 160MHz  
Duty cycle: 90%  
MCS: 2  
Number of spatial streams: 1  
MPDU length: 32768  
Bandwidth: 160.0 MHz  
Integration Time: 1.7 ms

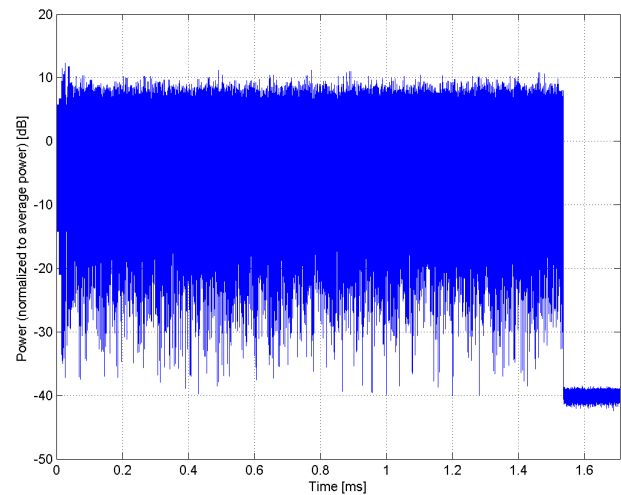
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)**

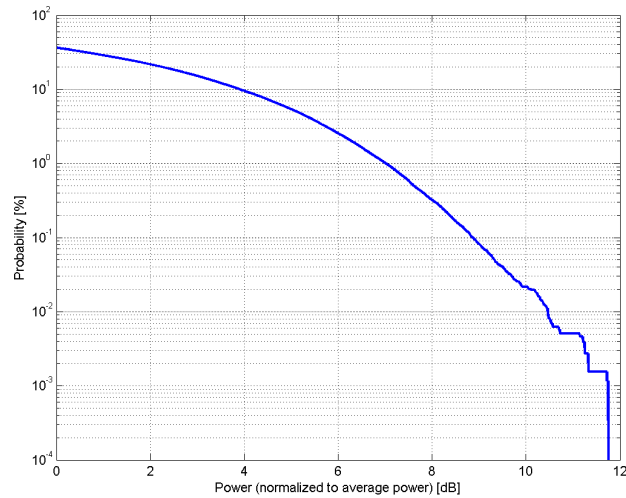
Group: WLAN  
UID: 10639-AAC

PAR: <sup>1</sup> **8.85 dB**  
MIF: <sup>2</sup> **-6.13 dB**

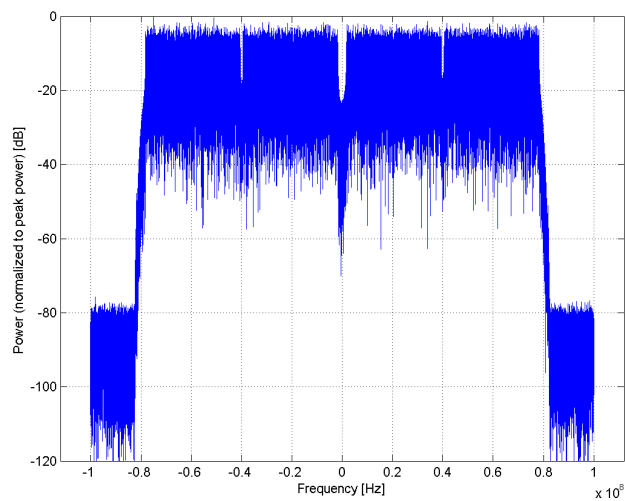
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 16-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: 160MHz  
Duty cycle: 90%  
MCS: 3  
Number of spatial streams: 1  
MPDU length: 32768  
Bandwidth: 160.0 MHz  
Integration Time: 1.3 ms

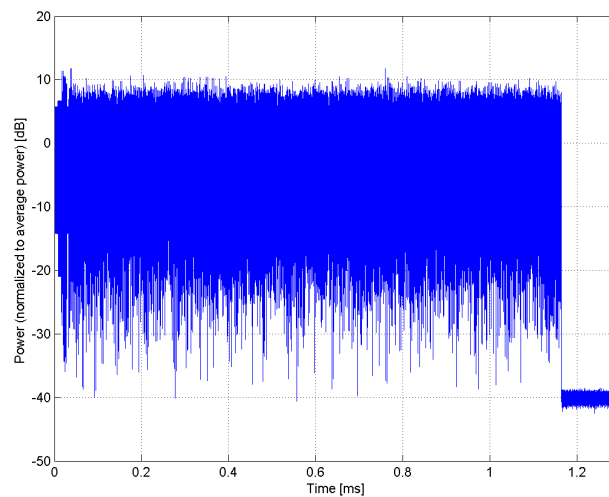
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

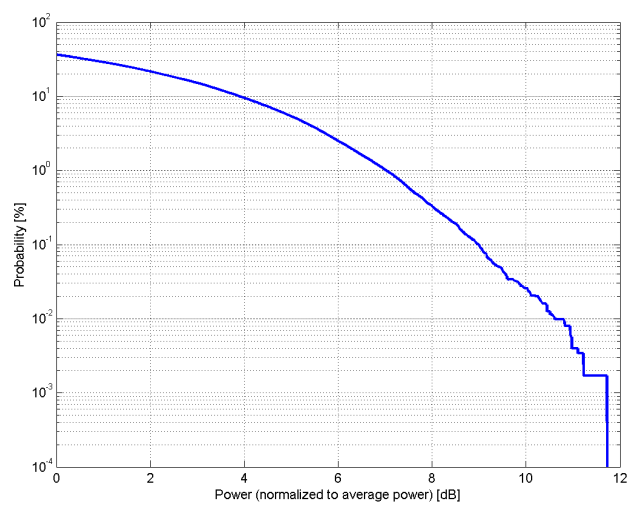


### Time Domain

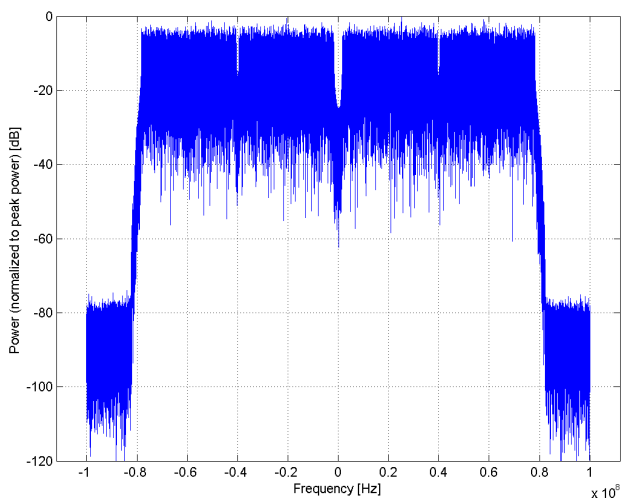
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|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle) |
| Group:                  | WLAN                                               |
| UID:                    | 10640-AAC                                          |
| PAR: <sup>1</sup>       | 8.98 dB                                            |
| MIF: <sup>2</sup>       | -6.67 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: 160MHz                                  |
|                         | Duty cycle: 90%                                    |
|                         | MCS: 4                                             |
|                         | Number of spatial streams: 1                       |
|                         | MPDU length: 32768                                 |
| Bandwidth:              | 160.0 MHz                                          |
| Integration Time:       | 0.9 ms                                             |

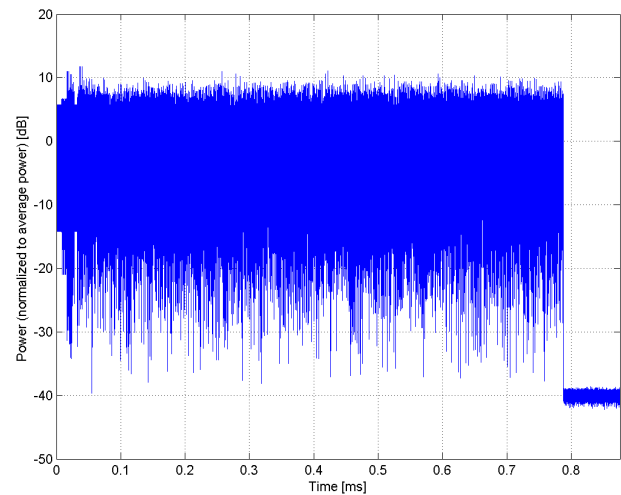
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)**

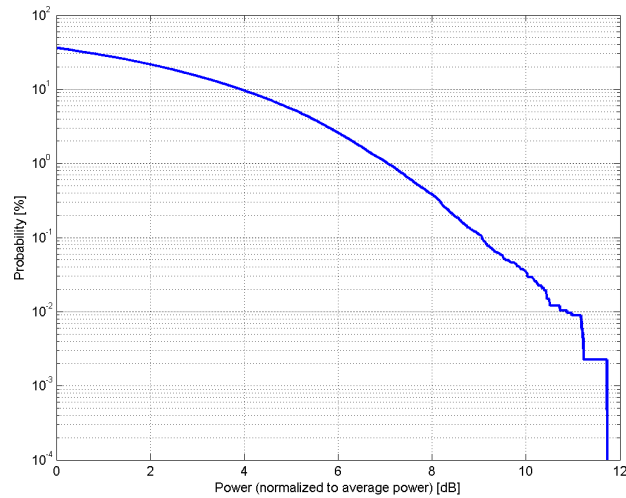
Group: WLAN  
UID: 10641-AAC

PAR: <sup>1</sup> **9.06 dB**  
MIF: <sup>2</sup> **-7.18 dB**

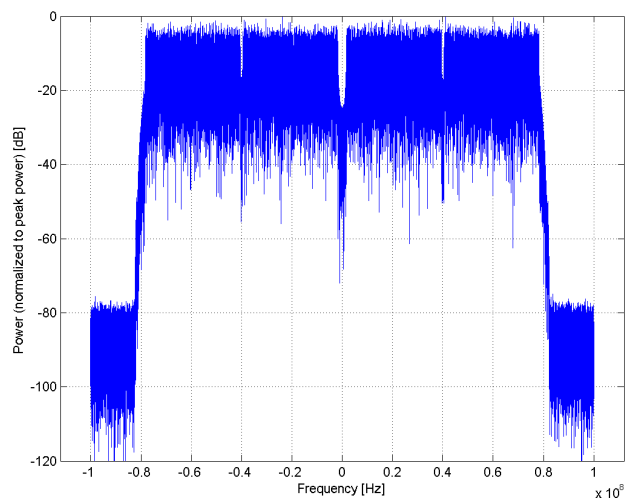
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: 160MHz  
Duty cycle: 90%  
MCS: 5  
Number of spatial streams: 1  
MPDU length: 32768  
Bandwidth: 160.0 MHz  
Integration Time: 0.7 ms

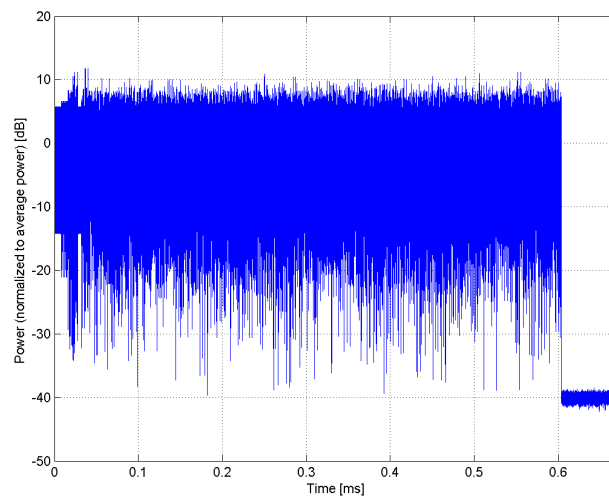
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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Name: **IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)**

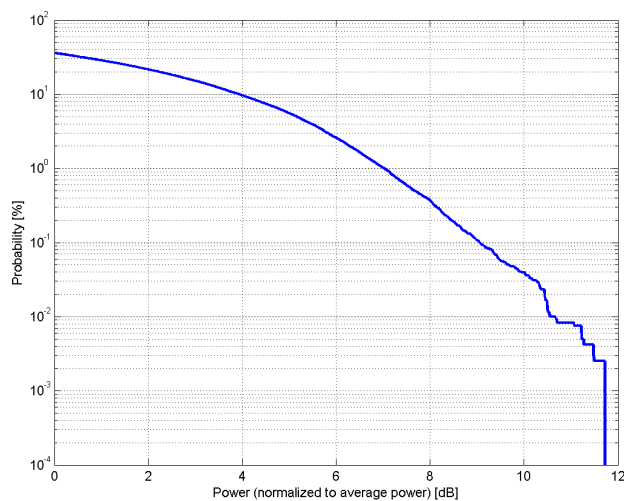
Group: WLAN  
UID: 10642-AAC

PAR: <sup>1</sup> **9.06 dB**  
MIF: <sup>2</sup> **-7.38 dB**

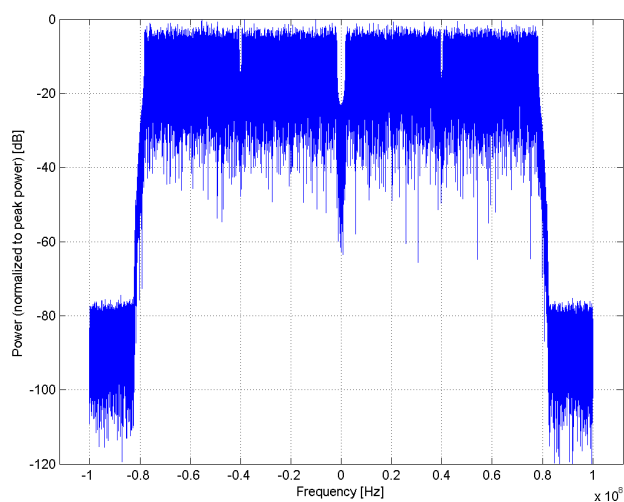
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: 160MHz  
Duty cycle: 90%  
MCS: 6  
Number of spatial streams: 1  
MPDU length: 32768  
Bandwidth: 160.0 MHz  
Integration Time: 0.6 ms

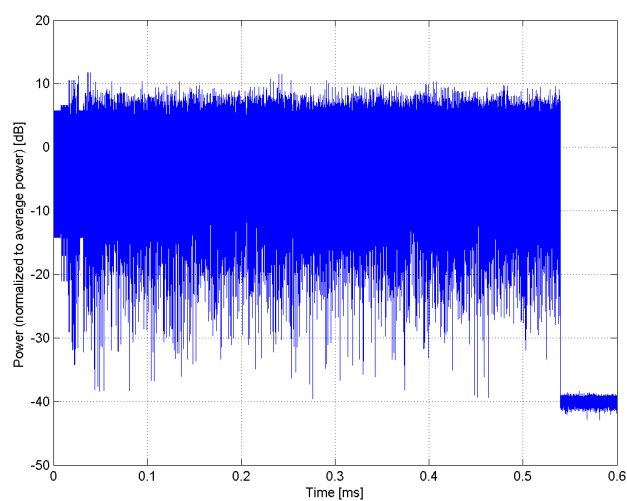
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



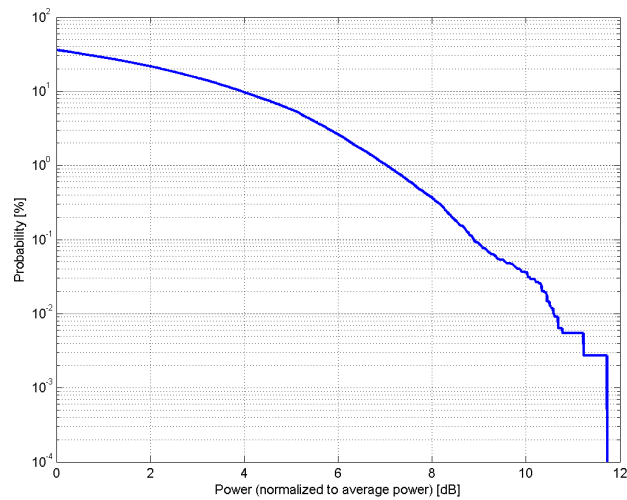
### Time Domain

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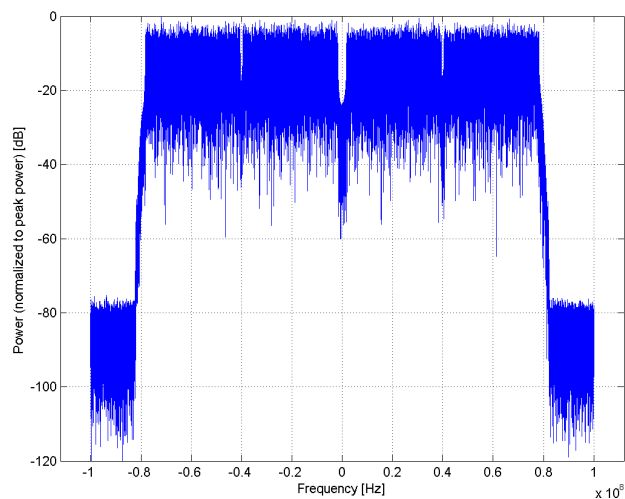
|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Name:                   | <b>IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)</b> |
| Group:                  | WLAN                                                      |
| UID:                    | 10643-AAC                                                 |
| PAR: <sup>1</sup>       | <b>8.89 dB</b>                                            |
| MIF: <sup>2</sup>       | <b>-7.65 dB</b>                                           |
| 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: 160MHz                                         |
|                         | Duty cycle: 90%                                           |
|                         | MCS: 7                                                    |
|                         | Number of spatial streams: 1                              |
|                         | MPDU length: 32768                                        |
| Bandwidth:              | 160.0 MHz                                                 |
| Integration Time:       | 0.5 ms                                                    |

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

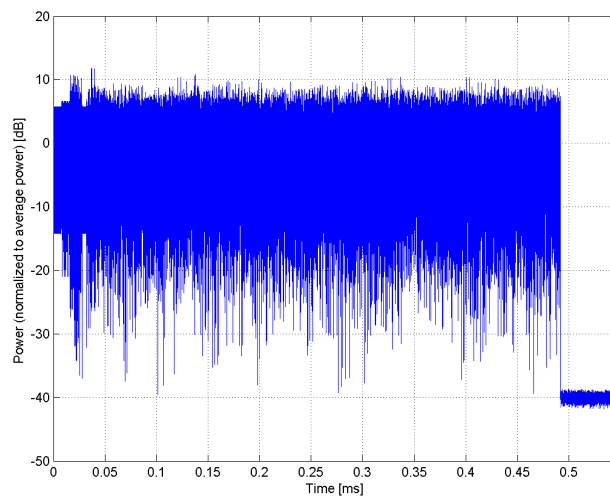
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain

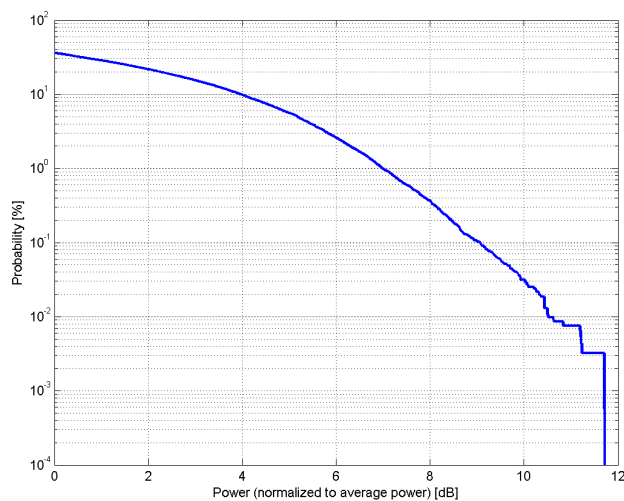


### Time Domain

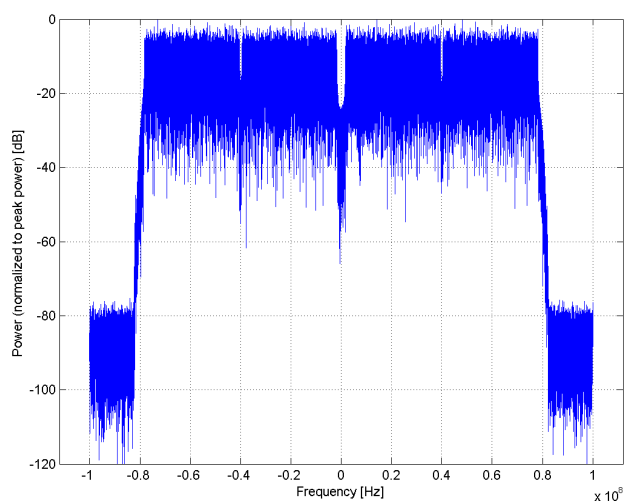
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Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)                                                                                                                                                                                                                                                                |
| Group:                  | WLAN                                                                                                                                                                                                                                                                                                              |
| UID:                    | 10644-AAC                                                                                                                                                                                                                                                                                                         |
| PAR: <sup>1</sup>       | 9.05 dB                                                                                                                                                                                                                                                                                                           |
| MIF: <sup>2</sup>       | -7.99 dB                                                                                                                                                                                                                                                                                                          |
| Standard Reference:     | IEEE 802.11-2013                                                                                                                                                                                                                                                                                                  |
| Category:               | FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01<br>Random amplitude modulation                                                                                                                                                                                                                                     |
| Modulation:             | 256-QAM                                                                                                                                                                                                                                                                                                           |
| Frequency Band:         | WLAN 2.4GHz (2412.0 - 2484.0 MHz)<br>WLAN 5GHz (4915.0 - 5825.0 MHz)<br>U-NII-1, U-NII-2A (5170 - 5330 MHz)<br>U-NII-2C Standalone (5490 - 5710 MHz)<br>U-NII-2C <5.65 GHz (5490 - 5650 MHz)<br>U-NII-3 Standalone (5735 - 5835 MHz)<br>U-NII-2C, U-NII-3 (5650 - 5835 MHz)<br>Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bandwidth: 160MHz<br>Duty cycle: 90%<br>MCS: 8<br>Number of spatial streams: 1<br>MPDU length: 32768                                                                                                                                                                                                              |
| Bandwidth:              | 160.0 MHz                                                                                                                                                                                                                                                                                                         |
| Integration Time:       | 0.5 ms                                                                                                                                                                                                                                                                                                            |

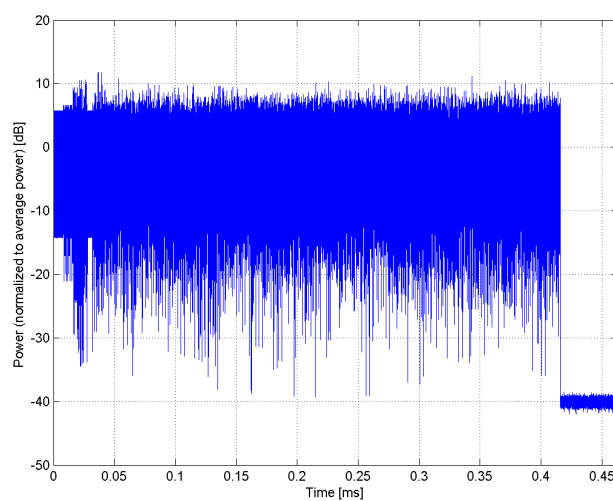
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



### Time Domain

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

Name: **IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)**

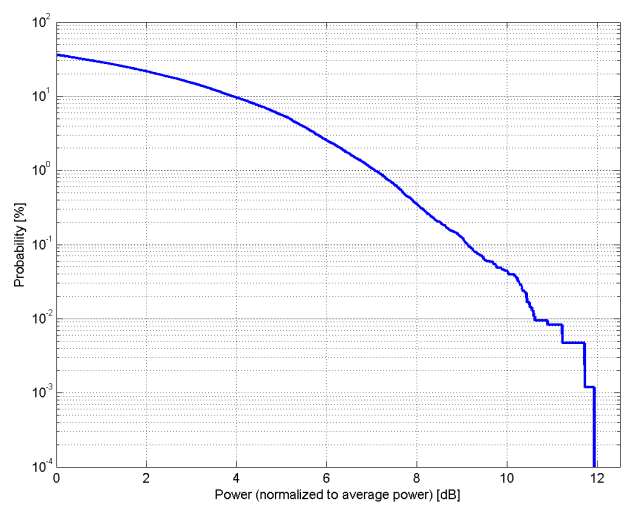
Group: WLAN  
UID: 10645-AAC

PAR: <sup>1</sup> **9.11 dB**  
MIF: <sup>2</sup> **-8.26 dB**

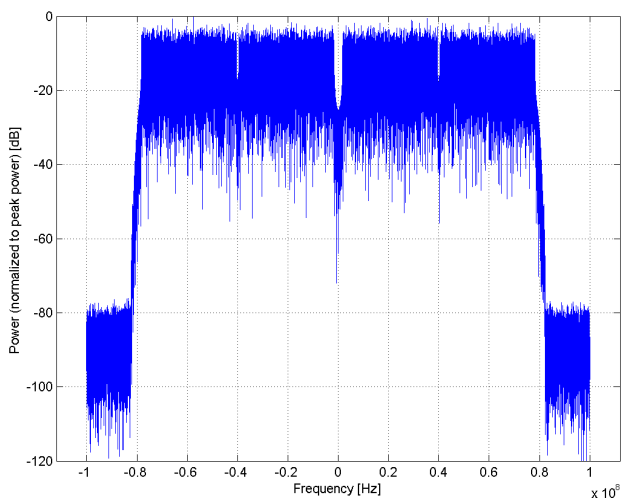
Standard Reference: IEEE 802.11-2013  
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01  
Category: Random amplitude modulation  
Modulation: 256-QAM  
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)  
WLAN 5GHz (4915.0 - 5825.0 MHz)  
U-NII-1, U-NII-2A (5170 - 5330 MHz)  
U-NII-2C Standalone (5490 - 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: 160MHz  
Duty cycle: 90%  
MCS: 9  
Number of spatial streams: 1  
MPDU length: 32768  
Bandwidth: 160.0 MHz  
Integration Time: 0.4 ms

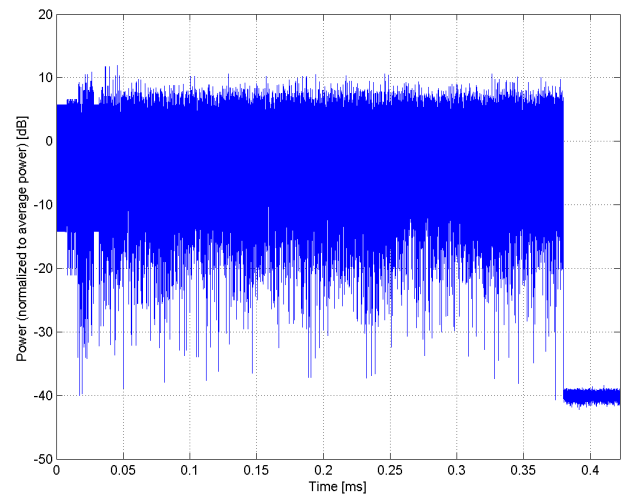
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



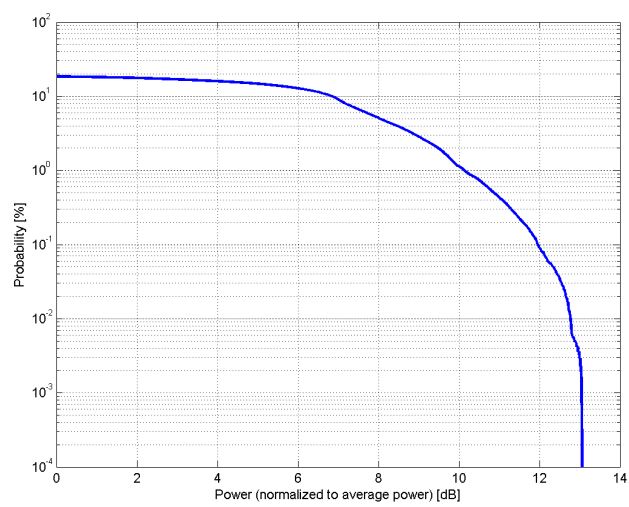
Time Domain

# Calibration Laboratory of Schmid & Partner Engineering AG

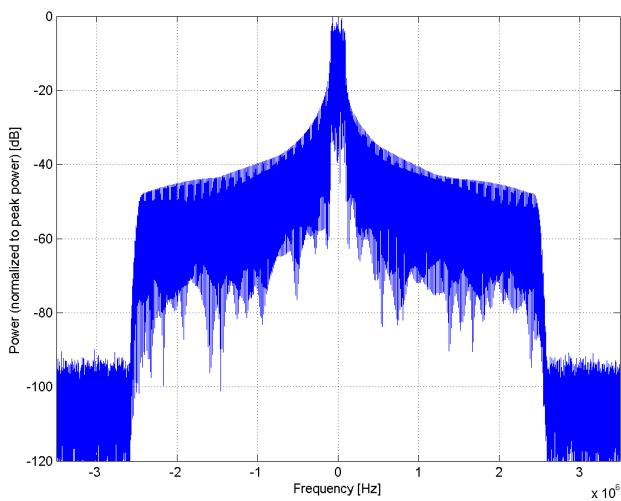
Zeughausstrasse 43, 8004 Zurich, Switzerland

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | <b>LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Group:                  | LTE-TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UID:                    | 10646-AAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PAR: <sup>1</sup>       | <b>11.96 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MIF: <sup>2</sup>       | <b>1.50 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Standard Reference:     | 3GPP / ETSI TS 136.101 V8.4.0<br>3GPP / ETSI TS 136.213 V8.4.0<br>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)<br>Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz)<br>Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)<br>Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)<br>Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz)<br>Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz)<br>Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz)<br>Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz)<br>Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)<br>Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz)<br>Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz)<br>Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)<br>Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz)<br>Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)<br>Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)<br>Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz)<br>Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz)<br>Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)<br>Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA<br>Uplink-downlink configuration: 2<br>Special Subframe configuration: 4<br>Number of Frames: 2<br>Settings for UL Subframe: 2,7<br>Number of PUSCHs: 1<br>Modulation Scheme: QPSK<br>Allocated RB: 1<br>Start Number of RB: 12<br>Data Type: PN9fix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Bandwidth:              | 5.0 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Integration Time:       | 20.0 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

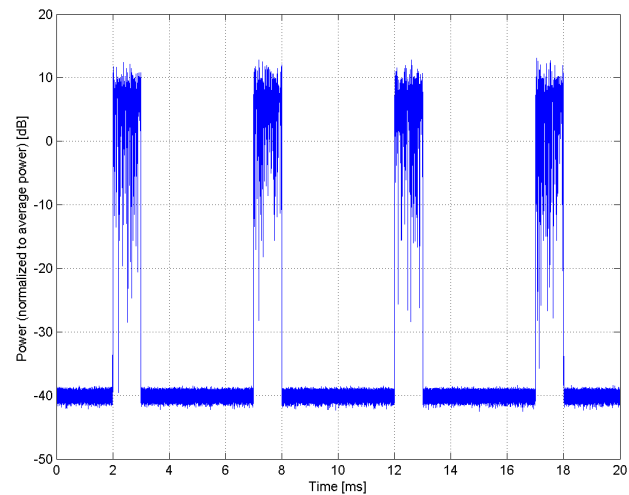
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

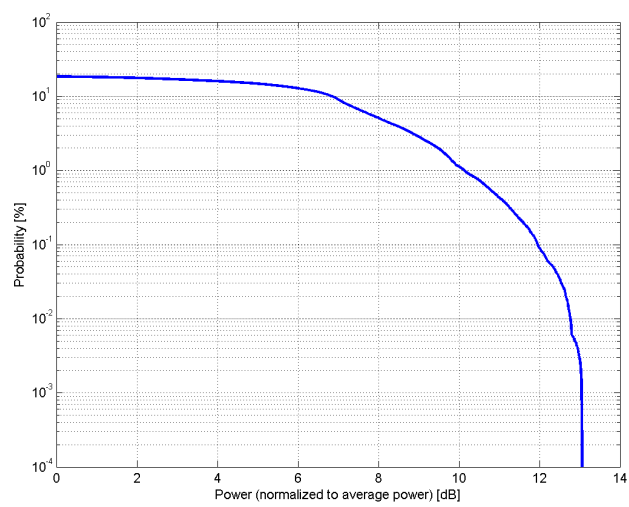


Time Domain

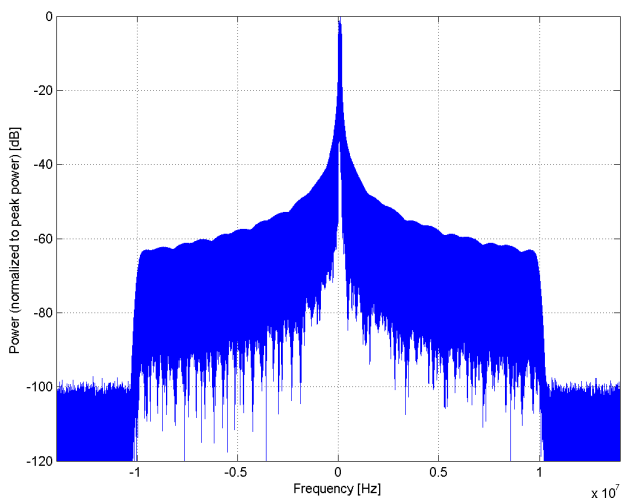
**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
**Zeughausstrasse 43, 8004 Zurich, Switzerland**

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | <b>LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Group:                  | LTE-TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UID:                    | 10647-AAF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PAR: <sup>1</sup>       | <b>11.96 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MIF: <sup>2</sup>       | <b>1.50 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Standard Reference:     | 3GPP / ETSI TS 136.101 V8.4.0<br>3GPP / ETSI TS 136.213 V8.4.0<br>FCC OET KDB 941225 D05 SAR for LTE Devices v01<br>Random amplitude modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Category:               | QPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Modulation:             | QPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Frequency Band:         | Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz)<br>Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)<br>Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)<br>Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz)<br>Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz)<br>Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz)<br>Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz)<br>Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)<br>Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz)<br>Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz)<br>Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)<br>Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz)<br>Band 46, E-UTRA/FDD (5150.0 - 5925.0 MHz)<br>Band 47, E-UTRA/TDD (5855.0 - 5925.0 MHz)<br>Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)<br>Band 49, E-UTRA/TDD (3550.0 - 3700.0 MHz)<br>Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)<br>Band 76, E-UTRA/FDD (3300.0 - 3400.0 MHz)<br>Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA<br>Uplink-downlink configuration: 2<br>Special Subframe configuration: 7<br>Number of Frames: 2<br>Settings for UL Subframe: 2,7<br>Number of PUSCHs: 1<br>Modulation Scheme: QPSK<br>Allocated RB: 1<br>Start Number of RB: 50<br>Data Type: PN9fix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Bandwidth:              | 20.0 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Integration Time:       | 20.0 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

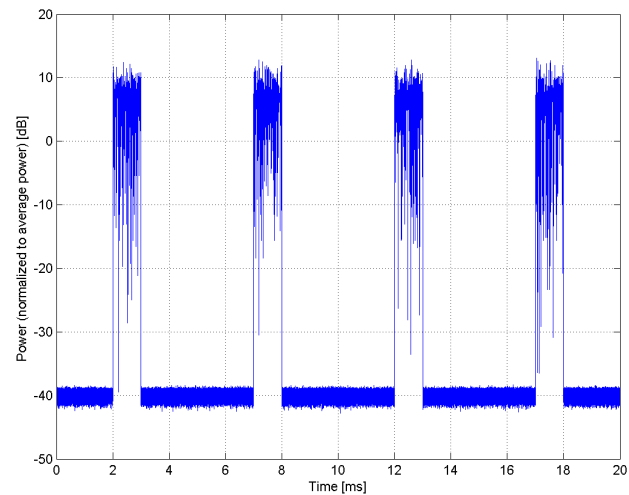
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



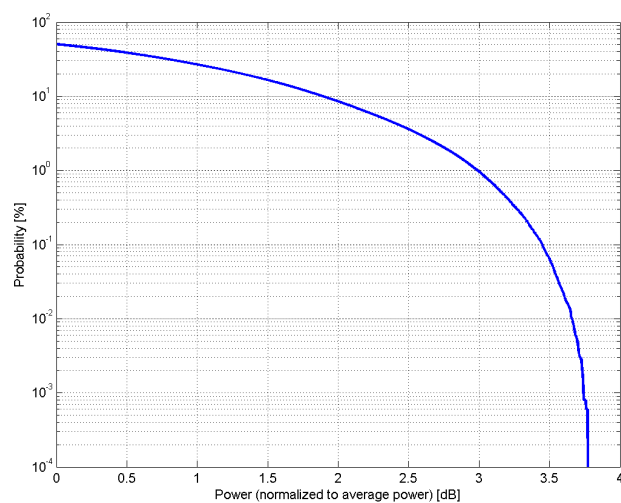
Frequency Domain



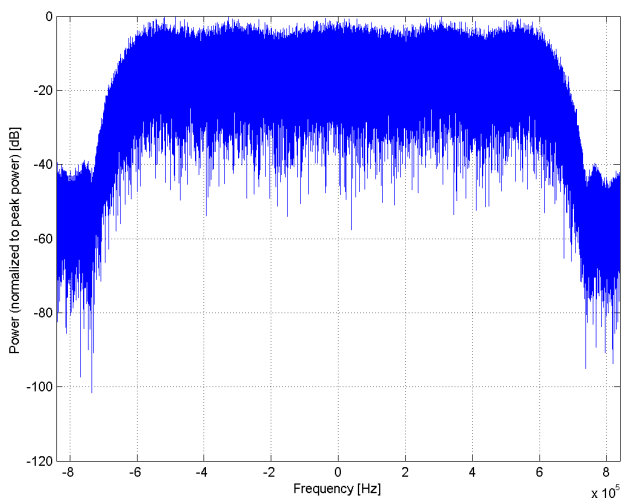
Time Domain

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | <b>CDMA2000 (1x Advanced)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Group:                  | CDMA2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UID:                    | 10648-AAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PAR: <sup>1</sup>       | <b>3.45 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| MIF: <sup>2</sup>       | <b>-19.86 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Standard Reference:     | FCC OET KDB 941225 D01 3G SAR Procedures v03r01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Category:               | Random amplitude modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Modulation:             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Frequency Band:         | Band Class 0 (815.0-849.0 MHz, 20220)<br>Band Class 1 (1850.0-1910.0 MHz, 20040)<br>Band Class 2 (872.0-915.0 MHz, 20041)<br>Band Class 3 (887.0-925.0 MHz, 20042)<br>Band Class 4 (1750.0-1780.0 MHz, 20043)<br>Band Class 5 (411.7-483.5 MHz, 20044)<br>Band Class 6 (1920.0-1980.0 MHz, 20045)<br>Band Class 7 (776.0-794.0 MHz, 20046)<br>Band Class 8 (1710.0-1785.0 MHz, 20047)<br>Band Class 9 (880.0-915.0 MHz, 20048)<br>Band Class 10 (806.0-901.0 MHz, 20049)<br>Band Class 11 (410.0-462.5 MHz, 20050)<br>Band Class 12 (870.0-876.0 MHz, 20051)<br>Band Class 13 (2500.0-2570.0 MHz, 20179)<br>Band Class 14 (1850.0-1915.0 MHz, 20180)<br>Band Class 15 (1710.0-1755.0 MHz, 20181)<br>Band Class 16 (2502.0-2568.0 MHz, 20182)<br>Band Class 18 (787.0-799.0 MHz, 20184)<br>Band Class 19 (698.0-716.0 MHz, 20185)<br>Band Class 20 (1626.5-1660.5 MHz, 20186)<br>Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Service Option 75 (SO75)<br>Uplink RC8<br>Downlink RC11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bandwidth:              | 1.2 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Integration Time:       | 100.0 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

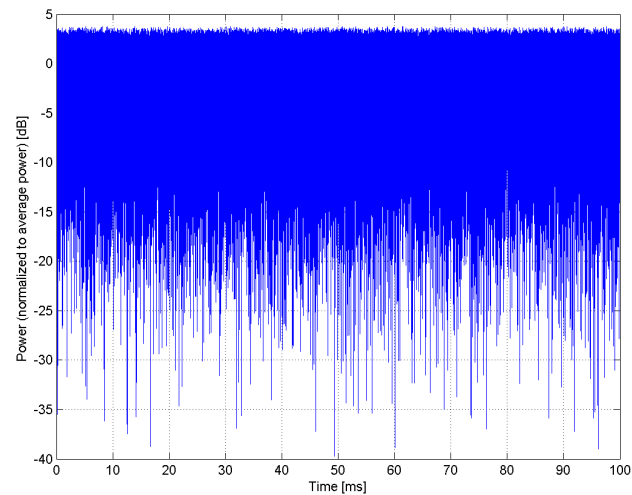
<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same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



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | <b>LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Group:                  | LTE-TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UID:                    | 10652-AAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PAR: <sup>1</sup>       | <b>6.91 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| MIF: <sup>2</sup>       | <b>-5.16 dB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standard Reference:     | TS 36.141 V11.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Category:               | Random amplitude modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Modulation:             | 64-QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Frequency Band:         | Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz)<br>Band 34, E-UTRA/TDD (2010.0 - 2025.0 MHz)<br>Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz)<br>Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz)<br>Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz)<br>Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz)<br>Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz)<br>Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz)<br>Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)<br>Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz)<br>Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz)<br>Band 44, E-UTRA/TDD (703.0 - 803.0 MHz)<br>Band 45, E-UTRA/FDD (1447.0 - 1467.0 MHz)<br>Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)<br>Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz)<br>Band 51, E-UTRA/TDD (1427.0 - 1432.0 MHz)<br>Band 52, E-UTRA/FDD (3300.0 - 3400.0 MHz)<br>Band 53, E-UTRA/FDD (2483.5 - 2495.0 MHz)<br>Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | E-UTRA Test Model 3.1 (E-TM3.1) Bandwidth: 5 MHz Clipping 44 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Bandwidth:              | 5.0 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Integration Time:       | 30.0 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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