

HEARING AID COMPATIBILITY RF EMISSIONS TEST REPORT

FCC ID	: XD6U626AA
Equipment	: Smart Phone
Model Name	: U626AA
M-Rating	: M4
Applicant	: Shenzhen Tinno Mobile Technology Corp. TINNO Building, No.33, Xiandong Rd, Xili, Nanshan District, Shenzhen, Guangdong Province,PRC
Manufacturer	: Shenzhen Tinno Mobile Technology Corp. TINNO Building, No.33, Xiandong Rd, Xili, Nanshan District, Shenzhen, Guangdong Province,PRC
Standard	: FCC 47 CFR §20.19 ANSI C63.19-2011

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Hank Huong

Reviewed by: Hank Huang / Supervisor

Johnny Chen



Approved by: Johnny Chen / Manager

Sporton International Inc. (Shenzhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
HA1N0415A	Rev. 01	Initial issue of report	Feb. 15, 2022



1. General Information

Product Feature & Specification				
Applicant Name	Applicant Name Shenzhen Tinno Mobile Technology Corp.			
Equipment Name	Smart Phone			
Model Name	U626AA			
FCC ID	XD6U626AA			
HW	V1.0			
SW	U626AAV01.02.10			
EUT Stage	Identical Prototype			
Frequency Band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 30: 2305 MHz ~ 2315 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5500 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz			
Mode	LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE			

2. Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory					
Test Firm	Sporton International Inc	Sporton International Inc. (Shenzhen)			
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595				
Toot Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
Test Site No.	SAR01-SZ	CN1256	421272		

3. Applied Standards

- · FCC CFR47 Part 20.19
- · ANSI C63.19-2011
- · FCC KDB 285076 D01 HAC Guidance v05r01
- · FCC KDB 285076 D03 HAC FAQ v01r04



4. <u>RF Audio Interference Level</u>

FCC wireless hearing aid compatibility rules ensure that consumers with hearing loss are able to access wireless communications services through a wide selection of handsets without experiencing disabling radio frequency (RF) interference or other technical obstacles.

To define and measure the hearing aid compatibility of handsets, in CFR47 part 20.19 ANSI C63.19 is referenced. A handset is considered hearing aid-compatible for acoustic coupling if it meets a rating of at least M3 under ANSI C63.19, and A handset is considered hearing aid compatible for inductive coupling if it meets a rating of at least T3. According to ANSI C63.19 2011 version, for acoustic coupling, the RF electric field emissions of wireless communication devices should be measured and rated according to the emission level as below.

Emission Categories	E-field	emissions
	<960Mhz	>960Mhz
M1	50 to 55 dB (V/m)	40 to 45 dB (V/m)
M2	45 to 50 dB (V/m)	35 to 40 dB (V/m)
M3	40 to 45 dB (V/m)	30 to 35 dB (V/m)
M4	<40 dB (V/m)	<30 dB (V/m)

 Table 4.1 Telephone near-field categories in linear units



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5. Air Interface and Operating Mode

Air Interface	Band MHz	Туре	C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Reduction
	Band 2		No ⁽¹⁾	WLAN, BT	VoLTE / Google Duo	No
	Band 4			WLAN, BT		No
LTE	Band 5	VD		WLAN, BT		No
(FDD)	Band 12	VD		WLAN, BT		No
	Band 14			WLAN, BT		No
	Band 30			WLAN, BT		No
	2450	VD	Yes	LTE		No
	5200		D Yes	LTE, BT	VoWiFi / Google Duo	No
Wi-Fi	5300	VD		LTE, BT		No
	5500	VD		LTE, BT		No
	5800			LTE, BT		No
BT	2450	DT	No	LTE, WLAN 5GHz	NA	No
			al Transport			

Remark:

 The air interface is exempted from testing by low power exemption that its average antenna input power plus its MIF is ≤17 dBm, and is rated as M4.



6. <u>Modulation Interference Factor</u>

The HAC Standard ANSI C63.19-2011 defines a new scaling using the Modulation Interference Factor (MIF). For any specific fixed and repeatable modulated signal, a modulation interference factor (MIF, expressed in dB) may be developed that relates its interference potential to its steady-state rms signal level or average power level. This factor is a function only of the audio-frequency amplitude modulation characteristics of the signal and is the same for field-strength and conducted power measurements. It is important to emphasize that the MIF is valid only for a specific repeatable audio-frequency amplitude modulation characteristic. Any change in modulation characteristic requires determination and application of a new MIF

The Modulation Interference factor (MIF, in dB) is added to the measured average E-field (in dBV/m) and converts it to the RF Audio Interference level (in dBV/m). This level considers the audible amplitude modulation components in the RF E-field. CW fields without amplitude modulation are assumed to not interfere with the hearing aid electronics. Modulations without time slots and low fluctuations at low frequencies have low MIF values, TDMA modulations with narrow transmission and repetition rates of few 100 Hz have high MIF values and give similar classifications as ANSI C63.19-2011.

ER3D, EF3D and EU2D E-field probes have a bandwidth <10 kHz and can therefore not evaluate the RF envelope in the full audio band. DASY52 is therefore using the indirect measurement method according to ANSI C63.19-2011 which is the primary method. These near field probes read the averaged E-field measurement. Especially for the new high peak-to-average (PAR) signal types, the probes shall be linearized by PMR calibration in order to not overestimate the field reading. Probe Modulation Response (PMR) calibration linearizes the probe response over its dynamic range for specific modulations which are characterized by their UID and result in an uncertainty specified in the probe calibration certificate. The MIF is characteristic for a given waveform envelope and can be used as a constant conversion factor if the probe has been PMR calibrated.

The evaluation method for the MIF is defined in ANSI C63.19-2011 section D.7. An RMS demodulated RF signal is fed to a spectral filter (similar to an A weighting filter) and forwarded to a temporal filter acting as a quasi-peak detector. The averaged output of these filtering is scaled to a 1 kHz 80% AM signal as reference. MIF measurement requires additional instrumentation and is not well suited for evaluation by the end user with reasonable uncertainty. It may alliteratively be determined through analysis and simulation, because it is constant and characteristic for a communication signal. DASY52 uses well-defined signals for PMR calibration. The MIF of these signals has been determined by simulation and it is automatically applied.

The MIF measurement uncertainty is estimated as follows, declared by HAC equipment provider SPEAG, for modulation frequencies from slotted waveforms with fundamental frequency and at least 2 harmonics within 10 kHz:

- 1. 0.2 dB for MIF: -7 to +5 dB
- 2. 0.5 dB for MIF: -13 to +11 dB
- 3. 1 dB for MIF: > -20 dB

MIF values applied in this test report were provided by the HAC equipment provider of SPEAG, and the worst values for all air interface are listed below to be determine the Low-power Exemption.

UID	Communication System Name	MIF(dB)
10170	LTE-FDD(SC-FDMA,1RB,20MHz,16-QAM)	-9.76
10173	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	-1.44
10061	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10427	IEEE 802.11n (HT Greeneld, 150 Mbps, 64-QAM)	-13.44
10069	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10616	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	-5.57

7. Low-power Exemption

<Max Tune-up Limit>

Freque	Average Power (dBm)	
	Band 2	25.00
	Band 4	25.00
FDD LTE	Band 5	25.50
FUDLIE	Band 12	25.50
	Band 14	25.50
	Band 30	24.00
	802.11b	14.50
2.4GHz WLAN	802.11g	14.50
	802.11n-HT20	14.50
	802.11a	16.50
	802.11n-HT20	16.50
	802.11n-HT40	16.50
5GHz WLAN	802.11ac-VHT20	16.50
	802.11ac-VHT40	16.50
	802.11ac-VHT80	15.00

<Low Power Exemption>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
LTE - FDD	25.50	-9.76	15.74	No
802.11b	14.50	-2.02	12.48	No
802.11g	14.50	0.12	14.62	No
802.11n-HT20	14.50	-13.44	1.06	No
802.11a	16.50	-3.15	13.35	No
802.11n-HT20	16.50	-13.44	3.06	No
802.11n-HT40	16.50	-13.44	3.06	No
802.11ac-VHT20	16.50	-5.57	10.93	No
802.11ac-VHT40	16.50	-5.57	10.93	No
802.11ac-VHT80	15.00	-5.57	9.43	No

General Note:

- 1. According to ANSI C63.19 2011-version, for the air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is ≤17 dBm for any of its operating modes.
- 2. HAC RF rating is M4 for the air interface which meets the low power exemption.



8. <u>References</u>

- [1] ANSI C63.19-2011, "American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids", 27 May 2011.
- [2] FCC KDB 285076 D01v05r01, "Equipment Authorization Guidance for Hearing Aid Compatibility", Apr 06, 2020
- [3] FCC KDB 285076 D03v01r04, "Hearing aid compatibility frequently asked questions", Apr 20, 2021.
- [4] SPEAG DASY System Handbook

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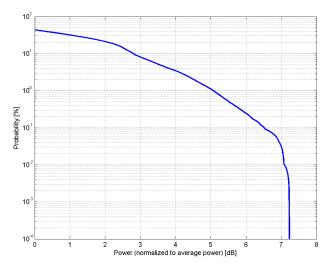
Appendix A. UID specifications for HAC RFE

UID_Summary are shown as follows.

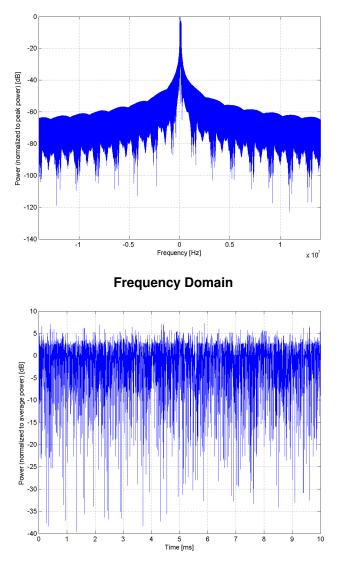
Name:	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)
Group:	LTE-FDD
UID:	10170-CAE
PAR: 1	6.52 dB
MIF: ²	-9.76 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0
Category:	FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 1, E-UTRA/FDD (1920.0 - 1980.0 MHz)
	Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz)
	Band 3, E-UTRA/FDD (1710.0 - 1785.0 MHz)
	Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz)
	Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz)
	Band 9, E-UTRA/FDD (1749.9 - 1784.9 MHz)
	Band 10, E-UTRA/FDD (1710.0 - 1770.0 MHz) Band 20, E-UTRA/FDD (832.0 - 862.0 MHz)
	Band 22, E-UTRA/FDD (3410.0 - 3490.0 MHz)
	Band 23, E-UTRA/FDD (2000.0 - 2020.0 MHz)
	Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz)
	Band 28 E-UTRA/FDD (703.0 - 748.0 MHz)
	Band 65, E-UTRA/FDD (1920.0 - 2010.0 MHz)
	Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz)
	Band 70, E-UTRA/FDD (1695.0 - 1710.0 MHz)
	Band 71, E-UTRA/FDD (663.0 - 698.0 MHz)
	Band 74, E-UTRA/FDD (1427.0 - 1470.0 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA
	Number of PUSCHs: 1
	Settings for Subframe #0 to #9:
	Modulation Scheme: 16QAM
	Data Type: UL-SCH
	Number RB: 1
	Transport Block Size: 256 TBS Index: 14
	MCS Index: 14
	Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms
-	

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

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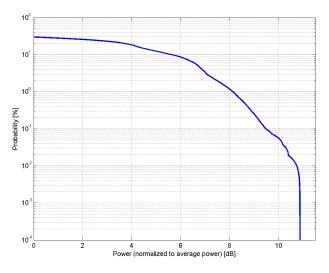
Complementary Cumulative Distribution Function (CCDF)



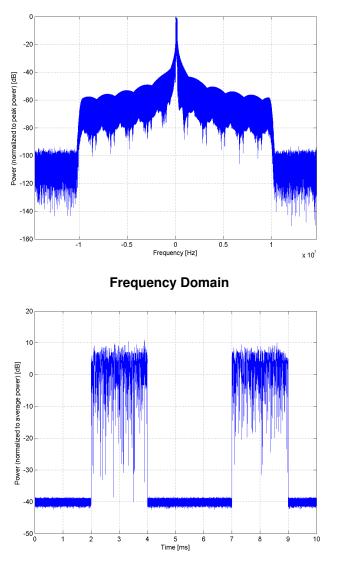
Name:	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)
Group: UID:	LTE-TDD 10173-CAG
PAR: ¹ MIF: ²	9.48 dB -1.44 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0
Category:	FCC OET KDB 941225 D05 SAR for LTE Devices v02 Random amplitude modulation
Modulation: Frequency Band:	16-QAM Band 33, E-UTRA/TDD (1900.0 - 1920.0 MHz) Band 35, E-UTRA/TDD (1850.0 - 1910.0 MHz) Band 36, E-UTRA/TDD (1930.0 - 1990.0 MHz) Band 37, E-UTRA/TDD (1910.0 - 1930.0 MHz) Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Band 39, E-UTRA/TDD (1880.0 - 1920.0 MHz) Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz) Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (2496.0 - 2690.0 MHz) Band 42, E-UTRA/TDD (3400.0 - 3600.0 MHz) Band 43, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 44, E-UTRA/TDD (3600.0 - 3800.0 MHz) Band 45, E-UTRA/TDD (703.0 - 803.0 MHz) Band 45, E-UTRA/TDD (1447.0 - 1467.0 MHz) Band 46, E-UTRA/TDD (5150.0 - 5925.0 MHz) Band 47, E-UTRA/TDD (5550.0 - 3700.0 MHz) Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Band 50, E-UTRA/TDD (1432.0 - 1517.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 1 Start Number of RB: 50 Data Type: PN9fix
Bandwidth:	20.0 MHz 6.0 ms
Integration Time:	0.01115

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

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Complementary Cumulative Distribution Function (CCDF)

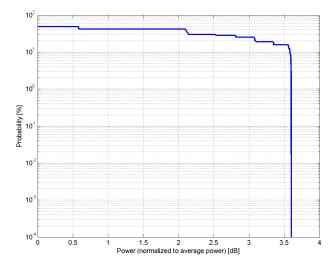


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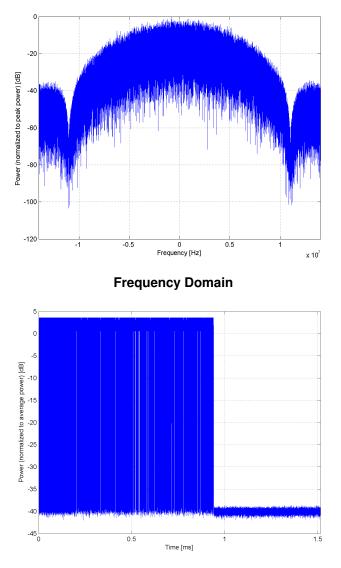
Name:	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)
Group: UID:	WLAN 10061-CAB
PAR: ¹ MIF: ²	3.60 dB -2.02 dB
Standard Reference:	IEEE 802.11b-1999 , Part 11, FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category:	Random amplitude modulation
Modulation:	DQPSK
Frequency Band:	WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification:	Data Rate: 11 Mbps
	Spreading, Coding: CCK
	PPDU format: Long Preamble & Heading
	PSDU Length: 1024
Bandwidth:	PSDU Data: PN9 20.0 MHz
Integration Time:	1.5 ms

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

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Complementary Cumulative Distribution Function (CCDF)

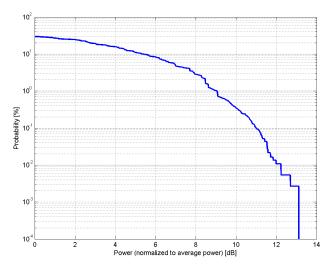


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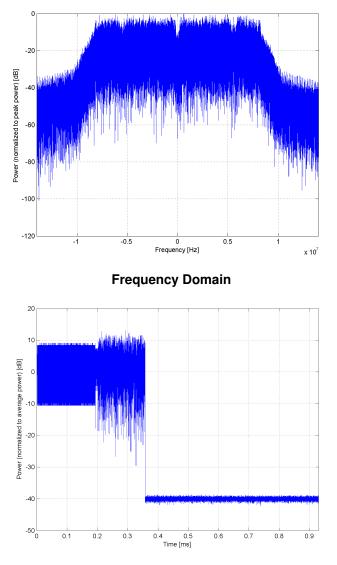
Name:	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)
Group: UID:	WLAN 10077-CAB
PAR: ¹	11.00 dB
MIF: ²	0.12 dB
Standard Reference:	IEEE 802.11g-2003, Part 11
	FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification:	Data Rate: 54 Mbps
	Coding Rate: 3/4
	Coded bits per subcarrier: 6
	Coded bits per OFDM symbol: 288
	Data bits per OFDM symbol: 216
	PSDU Length: 1000 Bytes
	PSDU Data: PN9
Bandwidth:	20.0 MHz
Integration Time:	0.9 ms

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

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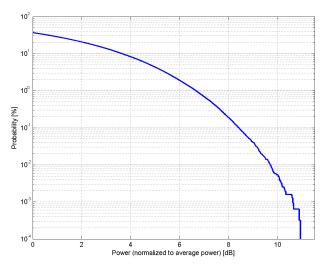
Complementary Cumulative Distribution Function (CCDF)



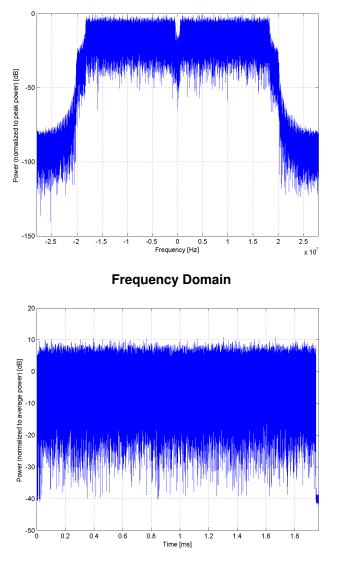
Name:	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)
Group:	WLAN
UID:	10427-AAB
PAR: ¹	8.41 dB
MIF: ²	-13.44 dB
Standard Reference:	IEEE 802.11n-2009
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (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:	Modulation: 64-QAM
	Data Rate: 150 Mbps
	PPDU Format: HT Greenfield
	PPDU Type: 40 MHz
	MCS Index: 7
	Guard Interval: Short
	Duty Cycle: 99%
Bandwidth:	40.0 MHz
Integration Time:	2.0 ms

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

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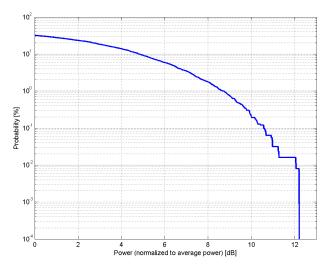
Complementary Cumulative Distribution Function (CCDF)



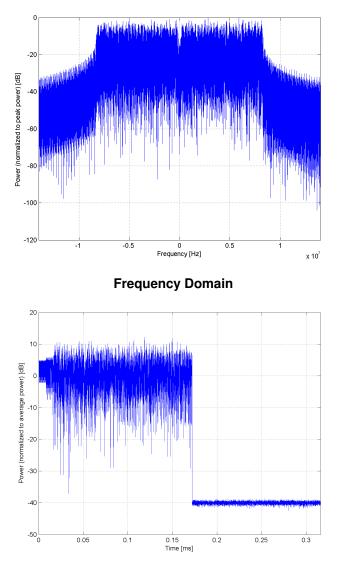
Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)
Group:	WLAN
UID:	10069-CAC
PAR: 1	10.56 dB
MIF: ²	-3.15 dB
Standard Reference:	IEEE 802.11a-1999 (R2003) , Part 11 IEEE 802.11h-2003 , Part 11
Category:	FCC SAR meas for 802 11 a b g v01r02 (248227 D01) Random amplitude modulation
Modulation:	64-QAM
Frequency 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:	Data Rate: 54 Mbps
	Coding Rate: 3/4
	Coded bits per subcarrier: 6
	Coded bits per OFDM symbol: 288
	Data bits per OFDM symbol: 216
	PSDU Length: 1000 Bytes
Bandwidth:	PSDU Data: PN9 20.0 MHz
Integration Time:	20.0 MHz 0.3 ms
integration rime.	0.0116

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

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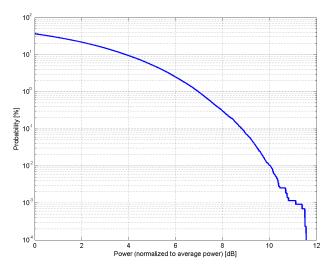
Complementary Cumulative Distribution Function (CCDF)



Name:	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)
Group:	WLAN
UID:	10616-AAB
PAR: 1	8.82 dB
MIF: ²	-5.57 dB
Standard Reference:	IEEE 802.11-2013
Category:	FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 Random amplitude modulation
Modulation:	BPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz)
	WLAN 5GHz (4915.0 - 5825.0 MHz)
	U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz)
	U-NII-2C <5.65 GHz (5490 - 5650 MHz)
	U-NII-3 Standalone (5735 - 5835 MHz)
	U-NII-2C, U-NII-3 (5650 - 5835 MHz)
	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz
	Duty cycle: 90%
	MCS: 0
	Number of spatial streams: 1
Bandwidth:	MPDU length: 8192 40.0 MHz
Integration Time:	40.0 MHz
	00

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

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Complementary Cumulative Distribution Function (CCDF)

