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	11N40SISO-Ant1-	-5230-PASS	
Spectrum Analyzer 1			Frequency 🔹 🔆
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-50.0			
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	20, 2024		



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R L Coupling: DC Log Aign: Auto 1 Graph V Scale/Div 10.0 dB Log	Corr CCorr Freq Ref. Int (S) #PNO. Fas1 #IF Gain: Low Ref Lvi Offset 14.71 dB Ref Value 30.00 dBm #Video BW 3.0000 MHz* 13.18 dBm / 61.9 MHz	Avg Hold: 45/300 Radio Std. None	Center Frequency 5.758280000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

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Total Channel Power 11.00 dBm / 38.6 MHz				
	2 Metrics 🔻			
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8.3 MAXIMUM PEAK POWER DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C According to FCC Part 15.407(a)(3) for UNII Band III According to 789033 D02 Section II(F)

8.3.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). (a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the anount in dB that the directional gain of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3)For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

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8.3.4 Test Procedure

Methods refer to FCC KDB 789033

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW $\geq 1/T$, where T is defined in section II.B.I.a).

b) Set VBW \geq 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections

5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

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EMTEK(Ningbo) Co., Ltd. Add: No. 8, Building 8, Lane 216, Qingyi Road, High-tech Zone, Ningbo, Zhejiang, China Http://www.emtek.com.cn E-mail: nb@emtek.com.cn



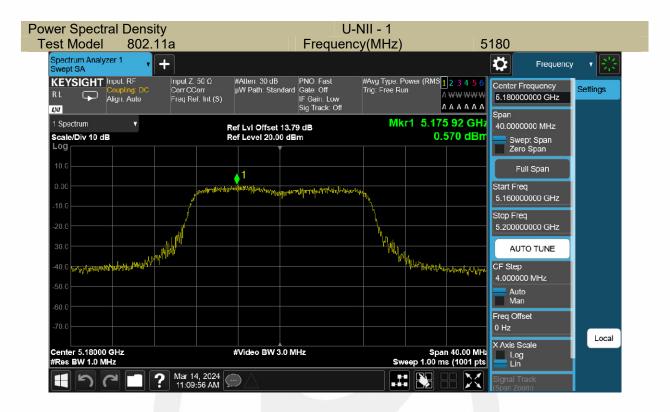
8.3.5 Test Results

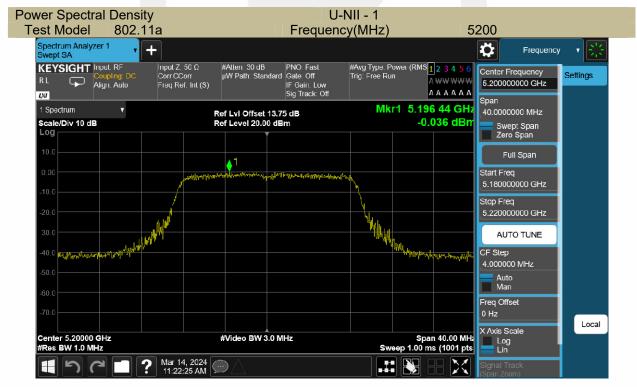
Temperature:	19 °C
Relative Humidity:	41%
ATM Pressure:	1011 mbar

Band	Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
		5180	0.57	11
	802.11a	5200	-0.04	11
		5240	1.14	11
U-NII-1		5180	-1.11	11
0-111-1	802.11n(HT20)	5200	-0.59	11
		5240	0.21	11
	802.11n(HT40)	5190	-3.86	11
		5230	-3.04	11
	802.11a	5745	-4.52	30
		5785	-5.27	30
		5825	-8.14	30
U-NII-3	802.11n(HT20)	5745	-5.78	30
		5785	-7.37	30
		5825	-7.97	30
	902 11p(UT40)	5755	-8.12	30
	802.11n(HT40)	5795	-10.02	30

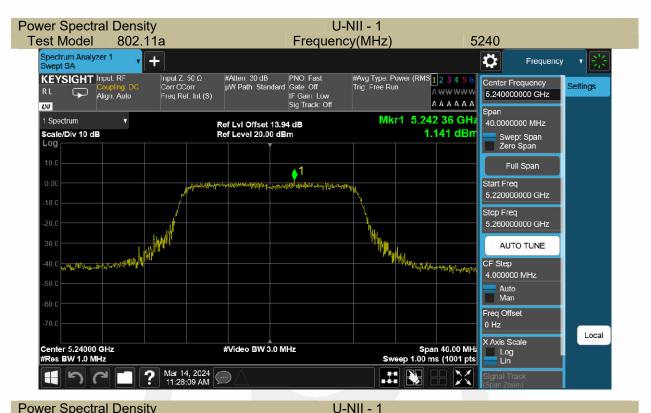
宁波市信测检测技术有限公司 地址:浙江省宁波市高新区清逸路216弄8幢8号 网址:Http://www.emtek.com.cn 邮箱:nb@emtek.com.cn EMTEK(Ningbo) Co., Ltd. Add: No. 8, Building 8, Lane 216, Qingyi Road, High-tech Zone, Ningbo, Zhejiang, China Http://www.emtek.com.cn E-mail: nb@emtek.com.cn

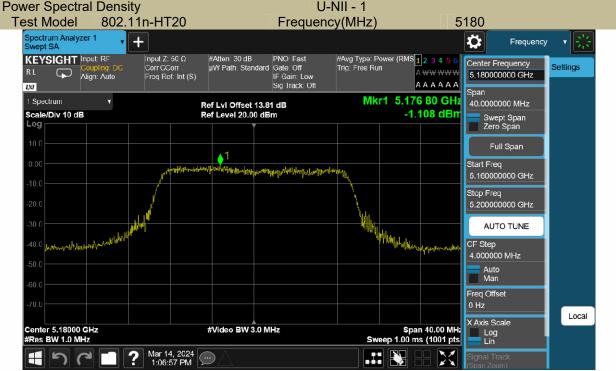












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wer Spectral D	ensity	U-	NII - 3	
est Model 8	02.11a	Frequence	cy(MHz)	5745
Spectrum Analyzer 1 Swept SA	• +			Frequency V
R L Align. An	J: DC Corr CCorr	#Atlen: 30 dB PNO. Fast µW Path: Standard Gate: Off IF Gain. Low Sig Track: Off	#Avg Type. Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WWW A A A A A A	5.745000000 GHz
1 Spectrum Scale/Div 10 dB		Ref LvI Offset 16.63 dB Ref Level 20.00 dBm	Mkr1 5.742 08 GH -4.521 dBr	10.0000000 Nil 12
Log				Swept Span Zero Span
10.0				Full Span
0.00	Weblinger	uning work work where we have	wy	Start Freq 5.725000000 GHz
-20.0				Stop Freq 5.765000000 GHz
30.0	MI Andra M		Lat have a second	AUTO TUNE
-40.0	I HARDAN AND AND AND AND AND AND AND AND AND		- Winner WW Dr. marged - walled.	CF Step 4.000000 MHz
-50.0				Auto Man
-60.0				Freq Offset 0 Hz
Center 5.74500 GHz		#Video BW 1.5 MHz	Span 40.00 MF	X Axis Scale
#Res BW 300 kHz	Mar 14, 2024 11:36:46 AM		Sweep 1.00 ms (1001 pt:	Signal Track (Span Zoom)



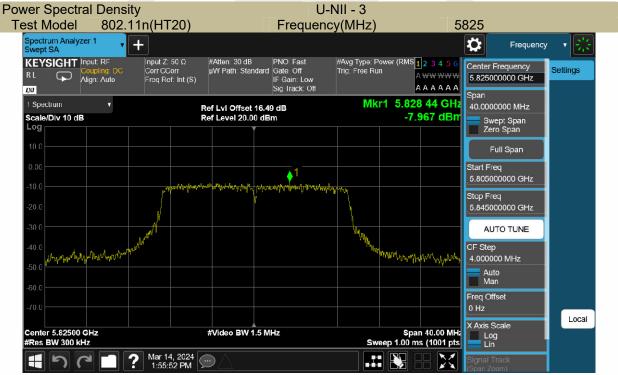








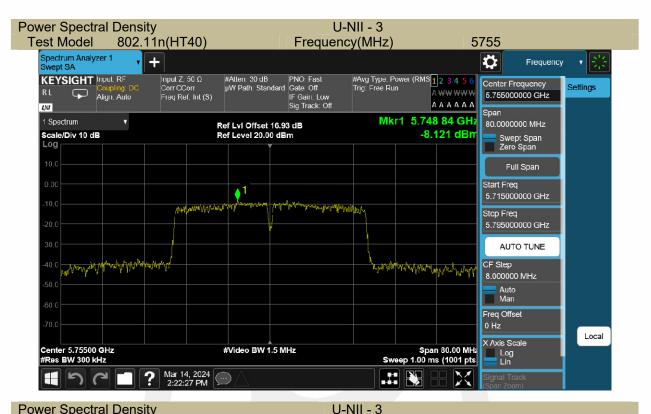




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