

	11AC40SISO-Ant1-	-5190-PASS	
Spectrum Analyzer 1	F		Frequency 🔹 🔆
KEYSIGHT Input: RF R L Input: RF Align: Auto	Input Z: 50 Ω #Atten: 30 dB PNO: Fast Corr CCorr μW Path. Standard Gate: Off Freq Ref. Int (S) IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Video Trig Delay: -2.000 ms P P P P P P	Center Frequency 5.19000000 GHz Span
1 Spectrum v Scale/Div 10 dB	Ref LvI Offset 13.48 dB Ref Level 25.00 dBm	ΔMkr3 1.110 ms -39.05 dB	0.00000000 Hz
15.0			Swept Span Zero Span
5.00			Full Span
-15.0		043Δ1	Start Freq
35.0			5.190000000 GHz Stop Freq
-45.0			5.190000000 GHz
-65.0 Center 5.190000000 GHz	#Video BW 8.0 MHz	Span 0 Hz	AUTO TUNE
Res BW 8 MHz		Sweep 10.0 ms (10001 pts)	
5 Marker Table V			Auto
Mode Trace Scale	6.730 ms 7.59 dBm	Inction Width Function Value	Man Freq Offset
	Δ) 950.0 μs (Δ) -35.65 dB Δ) 1.110 ms (Δ) -39.05 dB		0 Hz
5 6			X Axis Scale
<u> </u>	Mar 18, 2024		Lin Signal Track
Channel Power KEYSIGHT Input. RF RI Coupling: DC Align: Auto	Input Z. 50 Ω Atten: 40 dB Trig. Free Run Corr CCorr μW Path: Standard Gate: Off Freq Ref: Int (S) #PNO: Fast #IF Gain. Low	Center Freq. 5.190280000 GHz Avg Hold: 46/300 Radio Std: None	Frequency Center Frequency Settings
<i>Qa</i> 1 Graph ▼	Ref Lvi Offset 14.16 dB		Span 80.000 MHz
CV 1 Graph V Scale/Div 10.0 dB Log	Ref Lvi Offset 14.15 dB Ref Value 30.00 dBm		80.000 MHz CF Step
DVT 1 Graph v Scale/Div 10.0 dB			80.000 MHz CF Step 8.000000 MHz Auto
UX 1 Graph Scale/Div 10.0 dB Log 20.0 10.0 0.00			80.000 MHz CF Step 8.000000 MHz Auto Man
Log V Scale/Div 10.0 dB 20.0 10.0 10.0			80.000 MHz CF Step 8.000000 MHz
Log I Graph I			80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Log I Graph I			80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Log	Ref Value 30.00 dEm		80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Log I Graph I		Span 80 MHz Sweep 1.00 ms (1001 pts)	80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Log I Graph I	Ref Value 30.00 dEm		80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Log I Graph I Graph <thi g<="" td=""><td>Ref Value 30.00 dEm</td><td></td><td>80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz</td></thi>	Ref Value 30.00 dEm		80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
CV 1 Graph Scale/Div 10.0 dB Log 20.0 10.0 -0.	Ref Value 30.00 dEm		80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
CV 1 Graph V Scale/Div 10.0 dB Log 0.0 0.0 10.0 0.0 10.0 20.0 10.0 20.0 <td< td=""><td>Ref Value 30.00 dEm</td><td></td><td>80.000 MHz CF Step 8.000000 MHz Man Freq Offset 0 Hz</td></td<>	Ref Value 30.00 dEm		80.000 MHz CF Step 8.000000 MHz Man Freq Offset 0 Hz



	11AC40SISO-Ant1-	5230-PASS	
Spectrum Analyzer 1	+		Frequency 🔹 🔆
KEYSIGHT Input: RF R L ->- Align: Auto	Input Ζ: 50 Ω #Atten: 30 dB PNO: Fast Corr CCorr μW Path. Standard Gate. Off Freq Ref. Int (S) IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS <u>1</u> 2 3 4 5 6 Trig. Video Trig Delay: -2.000 ms P P P P P P	Center Frequency 5.230000000 GHz Span
1 Spectrum v Scale/Div 10 dB	Ref Lvi Offset 13.68 dB Ref Level 25.00 dBm	ΔMkr3 1.090 ms -38.33 dB	0.00000000 Hz
			Swept Span Zero Span
5.00 -5.00 -15.0 -25.0 35.0			Full Span Start Freq 5.230000000 GHz
-45.0 -55.0 -65.0			Stop Freq 5.230000000 GHz
Center 5.230000000 GHz Res BW 8 MHz	#Video BW 8.0 MHz	Span 0 Hz Sweep 10.0 ms (10001 pts)	CF Step
5 Marker Table v Mode Trace Scale	X Y Function Fun	ction Width Function Value	8.000000 MHz Auto Man
3 <u>∆</u> 1 1 t (5.230 ms 7.73 dBm Δ) 950.0 μs (Δ) -36.44 dB Δ) 1.090 ms (Δ) -38.33 dB		Freq Offset 0 Hz
4 5 6			X Axis Scale
4 501?	Mar 18, 2024		Signal Track
Spectrum Analyzer 1 Channel Power KEYSIGHT RI RI Align: Auto	Input Z. 50 Ω Atten, 40 dB Trig. Free Run Corr CCorr μW Path: Standard Gate: Off Freq Ref: Int (S) #PNO: Fast #IF Gain: Low	Centler Freq. 5.231080000 GHz Avg]Hold: 45/300 Radio Std: None	Frequency Center Frequency 5.231080000 GHz Settings
1 Graph ▼ Scale/Div 10.0 dB	Ref Lvi Offset 14.28 dB Ref Value 30.00 dBm		Span 80.000 MHz CF Step
20.0 10.0			8.000000 MHz
0.00			Man Freq Offset
-20.0		maren and maren and and and	0 Hz
-40 0			
-50.0			
Center 5.23108 GHz #Res BW 1.0000 MHz	#Video BW 3.0000 MHz*	بًا Span 80 MHz Sweep 1.00 ms (1001 pts)	
2 Metrics V			
Total Channel Power	12.29 dBm / 77.4 MHz		Local
Total Power Spectral Densit	y66.59 dBm/Hz		
	Mar 18, 2024 1:45:00 PM		



	11AC40SISO-Ant1-	5755-PASS	
Spectrum Analyzer 1	+		Frequency 🔹 👫
KEYSIGHT Input: RF R L ↔ Align: Auto	Input Z: 50 Ω #Atten: 30 dB PNO: Fast Corr CCorr μW Path. Standard Gate. Off Freq Ref: Int (S) Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Video Trig Delay: -2.000 ms	Center Frequency 5.755000000 GHz Span
1 Spectrum V	Ref LvI Offset 14.15 dB	ΔMkr3 1.120 ms	0.00000000 Hz
Scale/Div 10 dB	Ref Level 25.00 dBm	33.51 dB	Swept Span Zero Span
15.00 adversaria proprietante prop	nalizina ina mananana manananana ina manananana ina manananana ina manananana ina mananana ina mananana ina ma		Full Span
-5.00			Start Freq
-25.0		1	5.755000000 GHz
35.0			Stop Freq
-55.0			5.755000000 GHz
Center 5.755000000 GHz	#Video BW 8.0 MHz	Span 0 Hz	AUTO TUNE
Res BW 8 MHz		Sweep 10.0 ms (10001 pts)	CF Step 8.000000 MHz
5 Marker Table 🔹 🔻			Auto
Mode Trace Scale	8.020 ms -30.51 dBm	nction Width Function Value	Man Freq Offset
2 Δ1 1 t 3 Δ1 1 t	(Δ) 950.0 μs (Δ) 34.07 dB (Δ) 1.120 ms (Δ) 33.51 dB		0 Hz
4 5			X Axis Scale
6			Log Lin
	Mar 18, 2024 1:52:29 PM		Signal Track Span Zoom)
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF RI Coupling: DC Align: Auto	Mar 13, 2024 1:52:29 PM + Input Z. 50 Ω Corr CCorr Freq Ref: Int (S) Alten: 40 dB W Path: Standard Gate: Off #FNO: Fast #IF Gain: Low	Certler Freq. 5.754640000 GHz Avg Hold: 45/300 Radio Std: None	
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF RI Coupling: DC Align: Auto		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Span Zoom) Frequency Settings 5.754640000 GHz Span 80.000 MHz
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF RI Coupling: DC Align: Auto		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Soan Zoom) Frequency Center Frequency 5754640000 GHz Span
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF Coupling: DC Align: Auto T Scale/Div 10.0 dB Log 20.0 10.0		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Soan Zoom) Frequency • Conter Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz • Auto
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF Coupling: DC Align: Auto Cov 1 Graph Scale/Div 10.0 dB Log 20.0 10.0		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Span Zoom) Frequency Settings Center Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.00000 MHz
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF RI Coupling: DC Align: Auto V 1 Graph Scale/Div 10.0 dB Log 20.0 10.0		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Soan Zoom) Frequency Center Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF Coupling: DC Align: Auto ZV 1 Graph Scale/Div 10.0 dB Log 20.0 10.0 0.00 -20.0 -30.0		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Soan Zoom) Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF Coupling: DC Align: Auto ZV 1 Graph Scale/Div 10.0 dB Log 20.0 10.0 0.00 -20.0		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Soan Zoom) Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF RI Goupling: DC Align: Auto Scale/Div 10.0 dB Log 20 0 10 0 000 -10 0 -20 0 -30 0 -40 0		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Soan Zoom) Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF Coupling: DC Align: Auto TO Scale/Div 10.0 dB Log 20 0 10 0 000 -10 0 -20 0 -30 0 -40 0 -50 0		Center Freq. 5 754640000 GHz Avg Hold: 45/300	Signal Track Soan Zoom) Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Spectrum Analyzer 1 Channel Power Imput. RF KEYSIGHT Input. RF Keysight Coupling: DC Align: Auto V Scale/Div 10.0 dB Log	t 1:52:29 PM t t i 1:52:29 PM i i i i i i i i i i i i i i i i i i	Ceriter Freq. 5.754040000 GHZ Avg Hold: 45/300 Radio Std: None	Signal Track Soan Zoom) Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Spectrum Analyzer 1 Channel Power Imput. RF KEYSIGHT Input. RF Keysight Coupling: DC Align: Auto V Scale/Div 10.0 dB Log	t 1:52:29 PM t t i 1:52:29 PM i i i i i i i i i i i i i i i i i i	Ceriter Freq. 5.754040000 GHZ Avg Hold: 45/300 Radio Std: None	Signal Track Span Zoon) Center Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
Spectrum Analyzer 1 Channel Power KEYSIGHT Invus RF RI Coupling: DC Align: Auto Scale/Div 10.0 dB Log 20.0 10.0 0.00 -20.0 -30.0 -30.0 -40.0 -50.0 -60.0 Center 5.75464 GHz #Res BW 1.0000 MHz 2 Metrics	1:52:29 PM Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Alten: 40 dB WP ath: Standard #FNO: Fast Trig. Free Run #F Gain: Low Ref Lvi Offset 14.87 dB Ref Value 30.00 dBm Wideo BW 3.0000 MHz* 6.85 dBm / 43.6 MHz	Ceriter Freq. 5.754040000 GHZ Avg Hold: 45/300 Radio Std: None	Signal Track Soan Zoom) Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset
Spectrum Analyzer 1 Channel Power KEYSIGHT Input. RF RI Coupling: DC Align: Auto Scale/Div 10.0 dB Log 20.0 10.0 20.0	1:52:29 PM Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Alten: 40 dB WP ath: Standard #FNO: Fast Trig. Free Run #F Gain: Low Ref Lvi Offset 14.87 dB Ref Value 30.00 dBm Wideo BW 3.0000 MHz* 6.85 dBm / 43.6 MHz	Ceriter Freq. 5.754040000 GHZ Avg Hold: 45/300 Radio Std: None	Signal Track Span Zoon) Center Frequency 5.754640000 GHz Span 80.000 MHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz



	11AC40SISO-Ant1	-5795-PASS	
Spectrum Analyzer 1	+		🗱 Frequency 🔹 🔆
KEYSIGHT R L ↔ Align: Auto	Input Z: 50 Ω #Atten: 30 dB PNO: Fast Corr CCorr µW Palli. Slandard Gale. Off Freq Ref: Int (S) IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Video Trig Delay: -2.000 ms	Center Frequency 5.795000000 GHz Span
1 Spectrum 🔹	Ref Lvl Offset 13.92 dB	ΔMkr3 1.110 ms	0.00000000 Hz
Scale/Div 10 dB Log 15 0 5.00 http://www.interference.org/ 5.00	Ref Level 25.00 dBm	34.59 dB	Swept Span Zero Span Full Span
-15.0 -25.0 -35.0 -45.0 -55.0			Start Freq 5.795000000 GHz Stop Freq 5.795000000 GHz
65.0 Center 5.795000000 GHz Res BW 8 MHz	#Video BW 8.0 MHz	Span 0 Hz Sweep 10.0 ms (10001 pts)	AUTO TUNE CF Step 8.000000 MHz
	8.880 ms -32.44 dBm (Δ) 960.0 μs (Δ) 2.61 dB	unction Width Function Value	Auto Man Freq Offset
3 <u>∆1</u> 1 t (4 5 6	(Δ) 1.110 ms (Δ) 34.59 cB		0 Hz X Axis Scale Log Lin
Spectrum Analyzer 1 Channel Power KEYSIGHT RI Coupling: DC Align: Auto Scale/Div 10.0 dB	Input Z, 50 Ω. Atten. 40 dB Trig. Free Run Corr CCorr μW Path. Standard Gate: Off Freq Ref: Int (S) #FNO: Fast #IF Gain. Low Ref Lvi Offset 14.55 dB Ref Value 30.00 dBm	Center Freq. 5.795000000 GHz Avg]Hold: 40/300 Radio Std: None	Frequency Frequency Center Frequency Settings 5.795000000 GHz Settings Span 80.000 MHz 80.000 MHz Settings
Log 20.0 10.0 0.00 -10.0			CF Step 8.000000 MHz Auto Man Freq Offset
-10.0 -20.0 -30.0 -40.0 -50.0			0 Hz
-60.0			
Center 5.79500 GHz #Res BW 1.0000 MHz	#Video BW 3.0000 MHz*	Span 80 MHz Sweep 1.00 ms (1001 pts)	
2 Metrics V			
Total Channel Power Total Power Spectral Densit	6.51 dBm / 42.2 MHz by -69.75 dBm/Hz		Local
	Mar 18, 2024		



	11AC40SISO-Ant1-	5210-PASS	
Spectrum Analyzer 1			🛟 Frequency 🔹 🔆
KEYSIGHT Input: RF In RI Coupling: DC Co	put Z:50 Ω #Atten:30 dB PNO:Fast pr CCorr μ/W Path:Standard Gate:Off lF Gain:Low Sig track:Off	#Avg Type: Pcwar (RMS 1 2 3 4 5 6 Trig: Video WWW P	Center Frequency Settings 5.210000000 GHz
1 Spectrum	Ref Lyl Offset 13.54 dB	ΔMkr3 630.0 μs	Span 0.00000000 Hz
Scale/Div 10 dB	Ref Level 25.00 dBm	31.88 dB	Swept Span
	يعديمنان تقديمانك تقديمناك تعارينات على مانت معديناتم تعديناته وقريمته		Zero Span
5 00 m more aller and a		Anterna Arbeita Arterna Arbeita Arbeita Ar	Full Span
-15.0		<u>0</u> 1	Start Freq
-25.0			5.210000000 GHz
-55.0			Stop Freq 5.210000000 GHz
-65.0			AUTO TUNE
Center 5.210000000 GHz	#Video BW 8.0 MHz	Span 0 Hz	
Res BW 8 MHz 5 Marker Table v		Sweep 10.0 ms (10001 pts)	CF Step 8.000000 MHz
		n - Alexa Milalika – Erun - Alexa Mala a	Auto
Mode Trace Scale 1 N 1 t	8.650 ms -28.39 dBm	nction Width Function Value	Man Freq Offset
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	460.0 μs (Δ) 34.46 dB 630.0 μs (Δ) 31.88 dB		0 Hz
4 5			X Axis Scale
6			Log Lin
Coupling: DC C	put Z: 50 Ω Atten: 40 dB Trig: Free Run orr CCorr μW Peth: Standerd Cete: Off eq Ref: Int (S) #FNO: Fast #IF Gain. Low	Center Freq: 5.214960000 GHz Avg Hold: 44/300 Radio Std: None	Frequency Center Frequency 5.214960000 GHz Settings
1 Graph	Ref Lvi Offset 14.91 dB		Span 160.00 MHz
Scale/Div 10.0 dB	Ref Value 30.00 dBm		CF Step
20.0			16.000000 MHz
0.00			Man
10.0			Freq Offset 0 Hz
-20.0		monorman marine and and	
-30.0			
-50.0			
-60.0			
Center 5.21496 GHz #Res BW 1.0000 MHz	#VIdeo BW 3.0000 MHz*	Span 160 MHz Sweep 1.00 ms (1001 pts)	
2 Metrics			
	12.22 dBm / 110 MHz		
Total Channel Power Total Power Spectral Density	I2.33 dBm / 149 MHz -69.40 dBm/Hz		Local
	Mar 18, 2024		
	Mar 18, 2024		



	11N40SISO-Ant1-57	75-PASS	
Spectrum Analyzer 1	•	K	Frequency 🔹 🔆
KEYSIGHT Input: RF RL ↔ Align: Auto	Corr CCorr µW Path. Standard Gate. Off T	rig Delay: -2.000 ms	enter Frequency 775000000 GHz
1 Spectrum	Ref Lvi Offset 14.02 dB	ΔMkr3 630.0 μs	00000000 Hz
Scale/Div 10 dB	Ref Level 25.00 dBm	1.18 dB	Swept Span Zero Span
15 0 5.00	and a state of the s		Full Span
5.00 million of the second sec	al alatan ala		art Freq
-25.0			775000000 GHz
35.0			op Freq
-55.0		5	775000000 GHz
Center 5.775000000 GHz	#Video BW 8.0 MHz	Span 0 Hz	AUTO TUNE
Res BW 8 MHz		Sweep 10.0 ms (10001 pts) CF	⁻ Step 000000 MHz
5 Marker Table 🔹 🔻			Auto
Mode Trace Scale	8.430 ms -0.90 dBm	tion Width Function Value	Man S Offect
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			eq Offset Hz
4 5		×.	Axis Scale
6			Log Lin
Spectrum Analyzer 1 Channel Power KEYSIGHT RI Couping: DC Align: Auto) Input Z. 50 Ω Alten. 40 dB Trig. Free Run C Corr CCorr μW Path: Standard Gate: Off A		Frequency Trequency Settings
			an
1 Graph ▼ Scale/Div 10.0 dB	Ref LvI Offset 15.39 dB Ref Value 30.00 dBm		60.00 MHz
20.0			5.000000 MHz
10.0			Auto Man
0.00			eq Offset
-10.0			Hz
-30.0 marine a marine and a marine and		man and man many and	
-40 0			
-50.0			
Center 5.77524 GHz #Res BW 1.0000 MHz	#Video BW 3.0000 MHz*	Span 160 MHz Sweep 1.00 ms (1001 pts)	
Center 5.77524 GHz #Res BW 1.0000 MHz 2 Metrics	#Video BW 3.0000 MHz*		
#Res BW 1.0000 MHz	#Video BW 3.0000 MHz* 6.86 dBm / 83.0 MHz		
#Res BW 1.0000 MHz 2 Metrics Y			Local
#Res BW 1.0000 MHz 2 Metrics Total Channel Power	6.86 dBm / 83.0 MHz		Local



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

 宁波市信测检测技术有限公司
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 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



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:	18 °C
Relative Humidity:	50%
ATM Pressure:	1011 mbar

Band	Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
		5180	1.47	11
	802.11a	5200	1.47	11
		5240	2.12	11
		5180	0.71	11
	802.11n(HT20)	5200	1.3	11
		5240	2.02	11
U-NII-1	902 11p(UT40)	5190	-1.61	11
U-INII- I	802.11n(HT40)	5230	-0.73	11
		5180	1.22	11
	802.11ac(HT20)	5200	1.6	11
		5240	2.44	11
	902 11 cc(UT 40)	5190	-1.46	11
	802.11ac(HT40)	5230	-0.77	11
	802.11ac(HT80)	5210	-2.27	11
		5745	-7.01	30
	802.11a	5785	-6.52	30
		5825	-7.38	30
		5745	-6.81	30
U-NII-3	802.11n(HT20)	5785	-7.22	30
		5825	-7.2	30
	902 11×/UT40)	5755	-8.99	30
	802.11n(HT40)	5795	-8.33	30
	802.11ac(HT20)	5745	-6.5	30

宁波市信测检测技术有限公司

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			-6.68	30
		5825	-7.54	30
	802.11ac(HT40)	5755	-8.95	30
		5795	-9.33	30
	802.11ac(HT80)	5775	-10.97	30

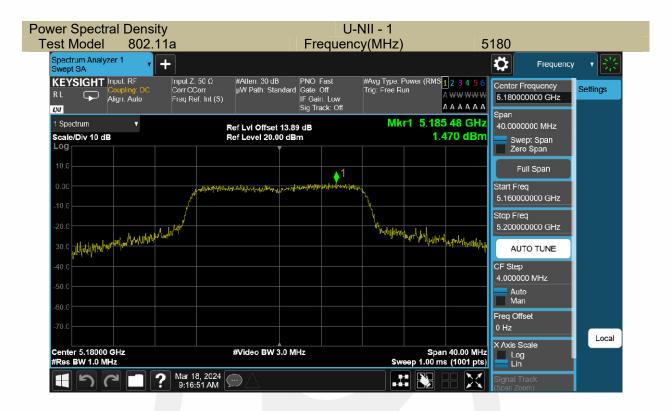


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wer Spectral De	ensity		NII - 1	
est Model 8	02.11n-HT40	Frequence	y(MHz)	5190
Spectrum Analyzer 1 Swept SA	• +			Frequency T
R L Align. Au	: DC Corr CCorr	#Atten: 30 dB PNO: Fast µW Path: Standard Gate: Off IF Gain: Low Sig Track: Off	#Avg Type. Power (RMS 1 2 3 4 Trig: Free Run A WWW A A A A	5.19000000 GHz
1 Spectrum Scale/Div 10 dB		ef Lvi Offset 14.20 dB ef Level 20.00 dBm	Mkr1 5.184 72 G -1.613 dl	
10.0 0.00	Juditification	1 Marchinelington and the state of the state		Full Span Start Freq 5.15000000 GHz
-10.0			Mult Muk (Annal) and a	Stop Freq 5.23000000 GHz
30.0 -40.0	aline and a line		mut to selected they be a series	AUTO TUNE CF Step 8.000000 MHz
-50.0				Auto Man
-70.0		#Video BW 3.0 MHz	Span 80.00	Freq Offset 0 Hz Local
	Mor 18, 2024		Sweep 1.00 ms (1001	

