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5.46 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

Test Method: KDB 789033 D02 v02r01Section C.2

Limit: Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall

be at least 500 kHz.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 * RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

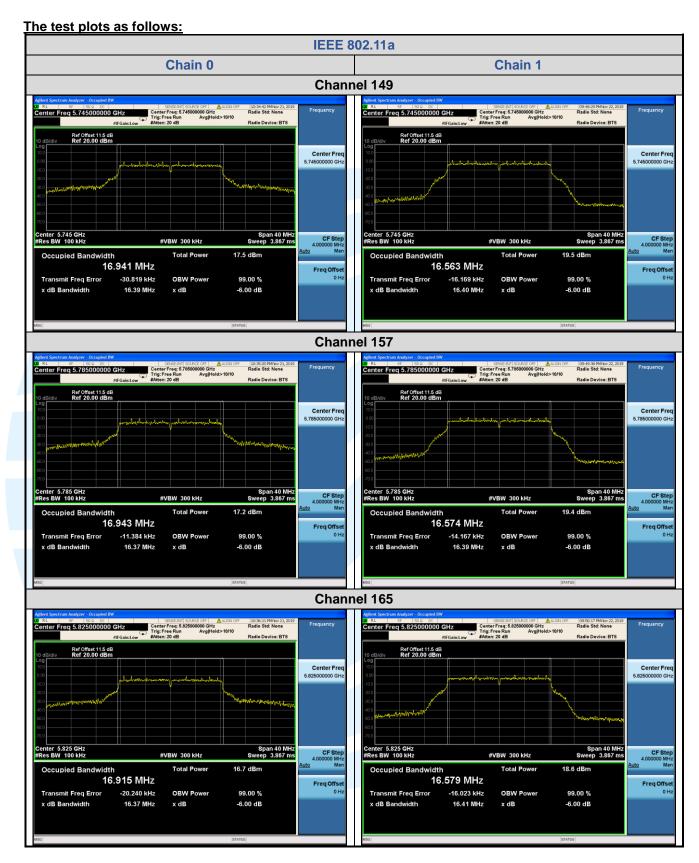
Test Mode: Transmitter mode

Test Results: Pass

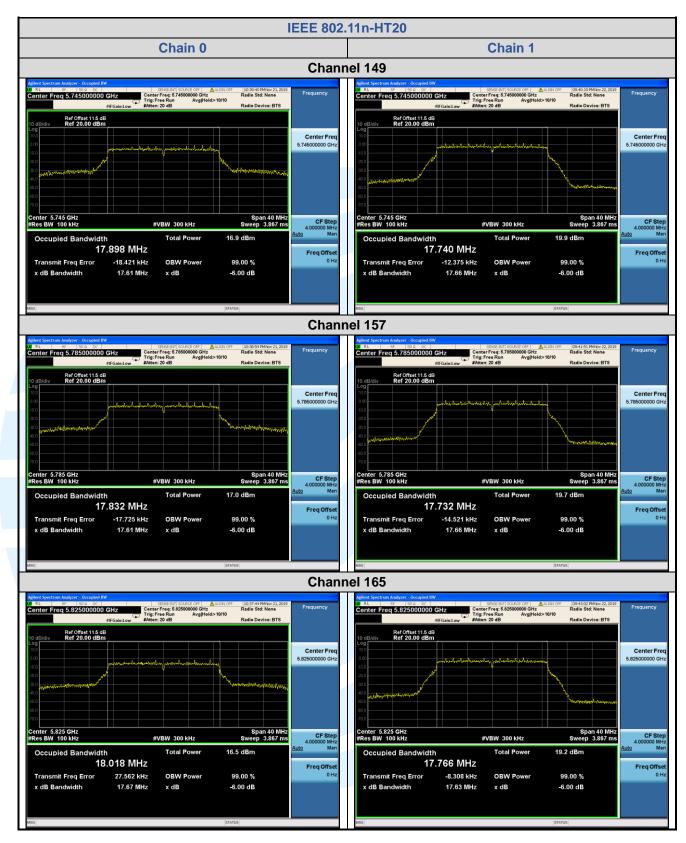
Test Data:

Mode	Channel/ Frequency		ndwidth Hz)		ndwidth Hz)	6 dB Bandwidth	Pass / Fail
	(MHz)	Chain 0	Chain 1	Chain 0	Chain 1	Limit	ı alı
	149 (5745)	16.39	16.40	16.941	16.563	> 500 kHz	Pass
IEEE 802.11a	157 (5785)	16.37	16.39	16.943	16.574	> 500 kHz	Pass
	165 (5825)	16.37	16.41	16.915	16.579	> 500 kHz	Pass
JEEE 000 44	149 (5745)	17.61	17.66	17.898	17.740	> 500 kHz	Pass
IEEE 802.11n- HT20	157 (5785)	17.61	17.66	17.832	17.732	> 500 kHz	Pass
11120	165 (5825)	17.67	17.63	18.018	17.766	> 500 kHz	Pass
IEEE 802.11n-	151 (5755)	36.39	36.42	36.363	36.194	> 500 kHz	Pass
HT40	159 (5795)	36.39	36.42	36.321	36.199	> 500 kHz	Pass
IEEE 000 44	149 (5745)	17.38	17.66	17.851	17.728	> 500 kHz	Pass
IEEE 802.11ac- VHT20	157 (5785)	17.60	17.65	17.895	17.733	> 500 kHz	Pass
VIIIZO	165 (5825)	17.56	17.65	17.830	17.753	> 500 kHz	Pass
IEEE 802.11ac-	151 (5755)	36.3.5	36.40	36.335	36.170	> 500 kHz	Pass
VHT40	159 (5795)	36.38	36.39	36.313	36.193	> 500 kHz	Pass
IEEE 802.11ac- VHT80	155 (5775)	75.58	76.40	75.768	75.591	> 500 kHz	Pass

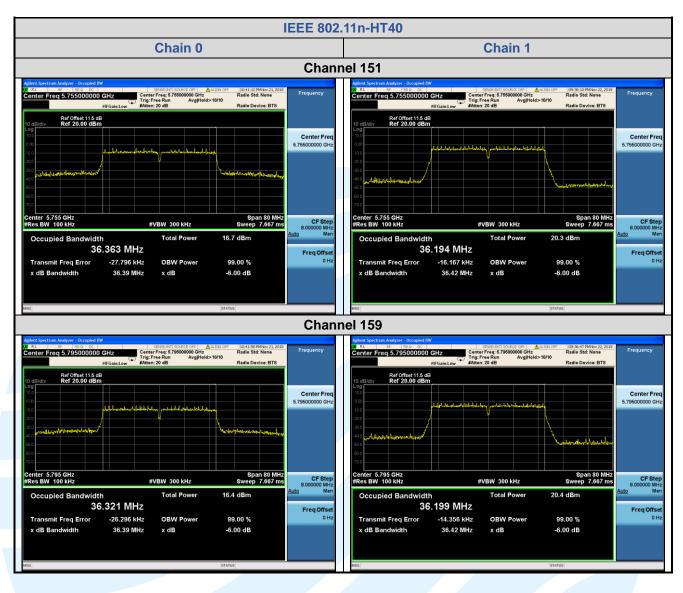




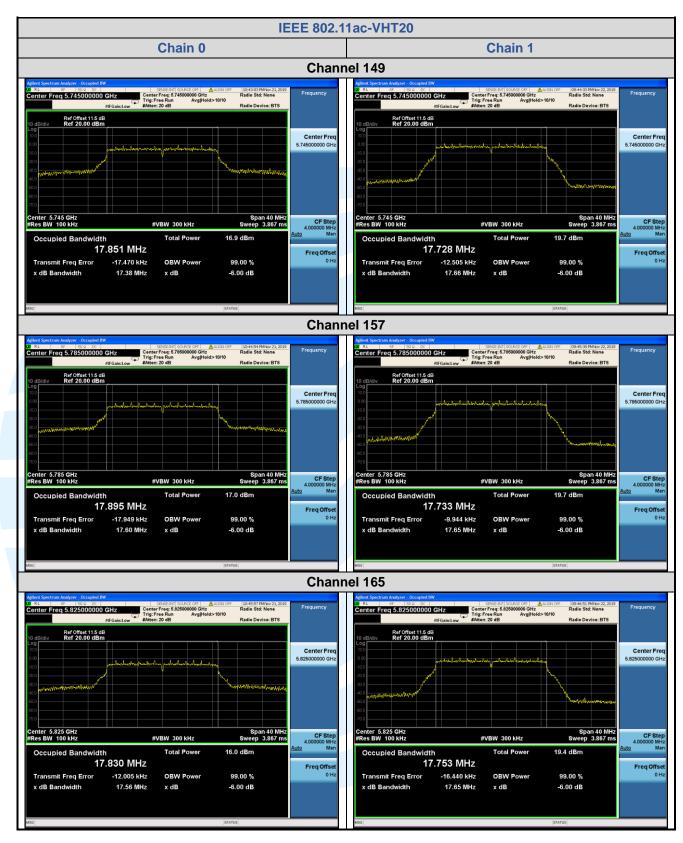






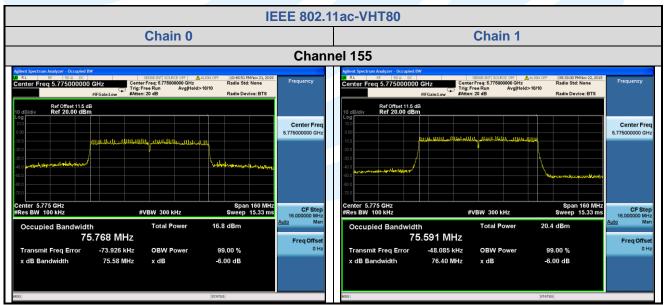












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5.5 MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3) **Test Method:** KDB 789033 D02 v02r01 Section E.3.a (Method PM)

Limits:

- For the band 5.15-5.25 GHz.
 - (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. In addition, the maximum power spectral density shall not exceed 17 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. 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).
 - (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. In addition, the maximum power spectral density shall not exceed 17 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.
 - (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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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-topoint operations.
 - (iv) For 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. 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 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.



Test Procedure:

1. Connected the EUT's antenna port to measure device by 10dB attenuator.

2. Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of Tx on burst.

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Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

For U-NII-2A, U-NII-2C Band:

For IEEE 802.11 a/n/ac, the minimum 26 dB emission bandwidth is 21.48 MHz 11 dBm + $10\log_{10} (21.48) = 24.32 \text{ dBm} > 24 \text{ dBm} (250\text{mW})$

So the 24 dB limit applicable

Directional gain and the maximum output power limit.

Frequency Band	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	Peak Power Limits (dBm)
U-NII-1	3.05	3.04	6.06	23.94
U-NII-2A	3.05	3.04	6.06	23.94
U-NII-2C	3.21	2.92	6.08	23.92
U-NII-3	3.37	2.93	6.16	29.84

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = 10 log[(10^G1 /20 + 10^G2 /20 + ... + 10^GN /20)^2 /NANT] dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

			Max	imum Cond	lucted Outp	ut Power (d	Bm)	
	Channel/		SIS	so	·	Total	,	
Mode	Frequency	Chain 0		Chain 1		Power	Limits	Pass / Fail
	(MHz)	Meas	Corr'd	Meas	Corr'd	MIMO_	(dBm)	1 033/1011
		Power	Power	Power	Power	Chain 0+1		
	36 (5180)	11.31	11.46	13.51	13.66	15.71	24	Pass
	44 (5220)	11.53	11.68	13.88	14.03	16.03	24	Pass
	48 (5240)	11.77	11.92	13.65	13.80	15.98	24	Pass
	52 (5260)	10.99	11.14	12.88	13.03	15.97	24	Pass
	60 (5300)	11.35	11.50	12.85	13.00	15.94	24	Pass
IEEE 802.11a	64 (5320)	11.62	11.77	12.81	12.96	15.90	24	Pass
IEEE 002.11a	100 (5500)	13.37	13.52	11.90	12.05	15.86	24	Pass
	116 (5580)	12.84	12.99	11.77	11.92	15.50	24	Pass
	140 (5700)	11.49	11.64	11.91	12.06	14.87	24	Pass
	149 (5745)	10.93	11.08	12.51	12.66	14.96	30	Pass
	157 (5785)	10.51	10.66	12.66	12.81	14.88	30	Pass
	165 (5825)	10.27	10.42	12.35	12.50	14.60	30	Pass



Maximum Conducted Output Power (dBm) **MIMO** Channel/ Total Mode Frequency **Power** Limits Chain 0 Chain 1 Pass / Fail (MHz) MIMO (dBm) Corr'd Meas Meas Corr'd Chain 0+1 **Power Power Power Power Pass** 36 (5180) 11.26 11.39 13.68 13.81 15.78 23.94 Pass 44 (5220) 11.51 11.64 13.52 13.65 15.77 23.94 48 (5240) 11.69 13.71 13.84 **Pass** 11.56 15.91 23.94 52 (5260) 10.81 12.86 12.99 15.10 Pass 10.94 23.94 60 (5300) 11.04 12.78 12.91 11.17 15.14 23.94 **Pass** 11.29 12.74 15.22 Pass 64 (5320) 11.42 12.87 23.94 IEEE 802.11n-HT20 100 (5500) 13.13 13.26 11.72 11.85 15.62 23.92 **Pass** 120 (5600) 12.22 12.35 11.72 11.85 15.12 23.92 **Pass** 140 (5700) 10.52 11.83 11.96 14.37 **Pass** 10.65 23.92 149 (5745) 10.11 10.24 12.42 12.55 14.56 29.84 **Pass** 157 (5785) 9.51 9.64 12.36 12.49 14.31 29.84 **Pass** 165 (5825) 9.13 9.26 12.31 12.44 14.15 29.84 **Pass**

		Maximum Conducted Output Power (dBm)								
	Channel/		MII	MO	Total					
Mode	Frequency	Cha	in 0	Cha	in 1	Power	Limits	Pass / Fail		
	(MHz)	Meas	Corr'd	Meas	Corr'd	MIMO_ (d	MIMO_ (dBm)	(dBm)	rass/ raii	
		Power	Power	Power	Power	Chain 0+1				
	38 (5190)	10.88	11.13	12.81	13.06	15.22	23.94	Pass		
	46 (5230)	11.20	11.45	12.79	13.04	15.33	23.94	Pass		
	54 (5270)	11.32	11.57	13.08	13.33	15.55	23.94	Pass		
	62 (5310)	11.85	12.10	13.05	13.30	15.76	23.94	Pass		
IEEE 802.11n-HT40	102 (5510)	12.81	13.06	11.96	12.21	15.67	23.92	Pass		
	118 (5590)	12.41	12.66	12.01	12.26	15.48	23.92	Pass		
	134 (5670)	10.56	10.81	12.15	12.40	14.69	23.92	Pass		
	151 (5755)	9.77	10.02	12.69	12.94	14.74	29.84	Pass		
	159 (5795)	9.20	9.45	12.61	12.86	14.50	29.84	/ Pass		



			Max	imum Conc	lucted Outp	ut Power (dl	Bm)	•
	Channel/		MII	MO		Total		
Mode	Frequency	Chain 0		Chain 1		Power	Limits	Pass / Fail
	(MHz)	Meas	Corr'd	Meas	Corr'd	MIMO_	(dBm)	1 4007 1 411
		Power	Power	Power	Power	Chain 0+1		
	36 (5180)	11.31	11.44	13.49	13.62	15.68	23.94	Pass
	44 (5220)	11.51	11.64	13.66	13.79	15.86	23.94	Pass
	48 (5240)	11.69	11.82	13.51	13.64	15.84	23.94	Pass
	52 (5260)	10.86	10.99	12.81	12.94	15.08	23.94	Pass
	60 (5300)	11.09	11.22	12.77	12.90	15.15	23.94	Pass
IEEE 802.11ac-	64 (5320)	11.48	11.61	12.71	12.84	15.28	23.94	Pass
VHT20	100 (5500)	12.98	13.11	11.75	11.88	15.55	23.92	Pass
	120 (5600)	12.15	12.28	11.69	11.82	15.07	23.92	Pass
	140 (5700)	10.68	10.81	11.79	11.92	14.41	23.92	Pass
	149 (5745)	10.10	10.23	12.45	12.58	14.57	29.84	Pass
	157 (5785)	9.81	9.94	12.33	12.46	14.39	29.84	Pass
	165 (5825)	9.36	9.49	12.19	12.32	14.14	29.84	Pass

			Max	imum Cond	lucted Outp	ut Power (dl	Bm)	
	Channel/		MII	МО		Total		
Mode	Frequency	quency Chain 0		Chain 1		Power	Limits	Pass / Fail
	(MHz)	Meas	Corr'd	Meas	Corr'd	MIMO_	(dBm)	rass/raii
		Power	Power	Power	Power	Chain 0+1		
	38 (5190)	10.82	11.09	12.88	13.15	15.25	23.94	Pass
	46 (5230)	11.25	11.52	12.81	13.08	15.38	23.94	Pass
	54 (5270)	11.30	11.57	12.98	13.25	15.50	23.94	Pass
IEEE 802.11ac-	62 (5310)	11.78	12.05	13.08	13.35	15.76	23.94	Pass
VHT40	102 (5510)	12.89	13.16	12.21	12.48	15.84	23.92	Pass
V11140	118 (5590)	12.56	12.83	11.98	12.25	15.56	23.92	Pass
	134 (5670)	10.67	10.94	12.09	12.36	14.72	23.92	Pass
	151 (5755)	9.87	10.14	12.66	12.93	14.77	29.84	Pass
	159 (5795)	9.25	9.52	12.57	12.84	14.50	29.84	Pass

		Maximum Conducted Output Power (dBm)								
Mode	Channel/		MII	MO	Total					
	Frequency	Cha	in 0	Cha	in 1	Power	Limits	Pass / Fail		
	(MHz)	Meas	Corr'd	Meas	Corr'd	MIMO_	(dBm)	1 4337 1 411		
		Power	Power	Power	Power	Chain 0+1				
	42 (5230)	10.06	10.57	11.89	12.40	14.59	23.94	Pass		
IEEE 802.11ac-	58 (5290)	10.71	11.22	12.21	12.72	15.04	23.94	Pass		
VHT80	106 (5530)	11.81	12.32	11.22	11.73	15.04	23.94	Pass		
	122 (5610)	10.93	11.44	11.15	11.66	14.56	23.94	Pass		
	155 (5775)	9.01	9.52	11.77	12.28	14.13	29.84	Pass		

Remark:

- 1. Corr'd Power = Meas Power + Duty Cycle Factor
- 2. Total (Chain 0+1) = $10*log[(10^{Chain 0/10})+(10^{Chain 1/10})]$



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5.6 PEAK POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v02r01 Section F

Limits:

1. For the band 5.15-5.25 GHz.

- (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. In addition, the maximum power spectral density shall not exceed 17 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. 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).
- (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. In addition, the maximum power spectral density shall not exceed 17 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.
- (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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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.
- (iv) For 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. 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.
- 2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.
- 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.

Test Procedure:

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The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

1. For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

- a) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b) Set RBW = 1 MHz, Set VBW ≥ 3 RBW, Detector = RMS
- c) Sweep time = auto, trigger set to "free run".
- d) Trace average at least 100 traces in power averaging mode.
- e) Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

- a) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b) Set RBW = 500 kHz, Set VBW ≥ 3 RBW, Detector = RMS
- c) Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- d) Sweep time = auto, trigger set to "free run".
- e) Trace average at least 100 traces in power averaging mode.
- f) Record the max value and add 10 log (1/duty cycle)

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Directional gain and the maximum output power limit.

Frequency Band	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated chains directional gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
U-NII-1	3.05	3.04	6.06	10.94
U-NII-2A	3.05	3.04	6.06	10.94
U-NII-2C	3.21	2.92	6.08	10.92
U-NII-3	3.37	2.93	6.16	29.84

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = 10 log[(10^G1 /20 + 10^G2 /20 + ... + 10^GN /20)^2 /NANT] dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]



For U-NII-1, U-NII-2A, U-NII-2C band

,			Maxii	mum Power	Spectral D	ensity (dBm/	MHz)	
	Channel/		SI	SO		Total PSD		
Mode	Frequency (MHz)	Chain 0		Chain 1		MIMO	Limits	Pass / Fail
		Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD	Chain 0+1	Lilling	1 450 / 1 411
	36 (5180)	0.801	0.96	2.39	2.54		11	Pass
	44 (5220)	0.940	1.09	2.17	2.32		11	Pass
	48 (5240)	1.059	1.21	2.22	2.37		11	Pass
	52 (5260)	0.182	0.34	1.596	1.75		11	Pass
IEEE 802.11a	60 (5300)	0.145	0.30	1.345	1.50		11	Pass
	64 (5320)	0.261	0.42	1.492	1.65		11	Pass
	100 (5500)	1.403	1.56	0.386	0.54		11	Pass
	120 (5600)	1.558	1.71	0.600	0.75		11	Pass
	140 (5700)	0.385	0.54	1.256	1.41		11	Pass

			Maxii	mum Power	Spectral D	ensity (dBm/	MHz)	
	Channel/		MII	MO		Total PSD		
Mode	Frequency	Chain 0		Chain 1		MIMO	Limits	Pass / Fail
	(MHz)	Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD	Chain 0+1		
	36 (5180)	0.026	0.16	2.660	2.79	4.68	10.48	Pass
	44 (5220)	0.443	0.57	2.480	2.61	4.72	10.48	Pass
	48 (5240)	0.505	0.64	2.700	2.83	4.88	10.48	Pass
	52 (5260)	-0.358	-0.23	1.447	1.58	3.78	10.48	Pass
IEEE 802.11n-HT20	60 (5300)	-0.067	0.06	1.589	1.72	3.98	10.48	Pass
	64 (5320)	0.240	0.37	1.321	1.45	3.95	10.48	Pass
	100 (5500)	1.115	1.25	-0.484	-0.35	3.53	10.48	Pass
	120 (5600)	0.612	0.74	0.638	0.77	3.77	10.48	Pass
	140 (5700)	-0.565	-0.43	1.010	1.14	3.43	10.48	Pass

			Maxi	mum Power	Spectral D	ensity (dBm/	/MHz)	•
	Channel/		MII	MO	Total PSD			
Mode	Frequency	Cha	in 0	Cha	in 1	MIMO	Limits	Pass / Fail
	(MHz)	Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD	Chain 0+1	Lillito	1 45571411
	38 (5190)	-3.290	-3.04	-1.046	-0.79	1.24	11.48	Pass
	46 (5230)	-2.837	-2.58	-1.289	-1.04	1.27	11.48	Pass
	54 (5270)	-2.732	-2.48	-1.063	-0.81	1.45	11.48	Pass
IEEE 802.11n-HT40	62 (5310)	-2.622	-2.37	-1.436	-1.18	1.28	11.48	Pass
	102 (5510)	-2.707	-2.45	-3.436	-3.18	0.21	11.48	Pass
	118 (5590)	-3.605	-3.35	-3.118	-2.86	-0.09	11.48	Pass
	134 (5670)	-4.742	-4.49	-2.879	-2.63	-0.45	11.48	Pass



			MHz)	•				
	Channel/		MI	MO		Total PSD	Limits	
Mode	Frequency	Cha	in 0	Cha	in 1	MIMO		Pass / Fail
	(MHz)	Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD	Chain 0+1		1 4307 1 411
	36 (5180)	1.101	1.23	2.05	2.18	4.74	10.48	Pass
	44 (5220)	0.514	0.64	2.258	2.39	4.61	10.48	Pass
	48 (5240)	0.252	0.38	2.187	2.32	4.47	10.48	Pass
IEEE 802.11ac-	52 (5260)	-0.384	-0.25	1.715	1.85	3.93	10.48	Pass
VHT20	60 (5300)	0.104	0.23	1.089	1.22	3.76	10.48	Pass
V11120	64 (5320)	0.134	0.26	1.219	1.35	3.85	10.48	Pass
	100 (5500)	1.159	1.29	0.126	0.26	3.81	10.48	Pass
	120 (5600)	0.713	0.84	0.278	0.41	3.64	10.48	Pass
	140 (5700)	-0.973	-0.84	0.945	1.08	3.23	10.48	Pass

			Maximum Power Spectral Density (dBm/MHz)								
		Channel/	MIMO				Total PSD				
	Mode	Frequency	Chain 0		Chain 1		MIMO	Limits	Pass / Fail		
		(MHz)	Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD	Chain 0+1	Lillits	1 435/ 1 411		
		38 (5190)	-3.203	-2.93	-1.54	-1.27	0.99	11.48	Pass		
		46 (5230)	-3.097	-2.83	-1.40	-1.13	1.12	11.48	Pass		
	IEEE 802.11ac-	54 (5270)	-2.716	-2.45	-1.12	-0.85	1.44	11.48	Pass		
	VHT40	62 (5310)	-2.605	-2.33	-1.54	-1.27	1.24	11.48	Pass		
	V11140	102 (5510)	-2.793	-2.52	-3.59	-3.32	0.11	11.48	Pass		
		118 (5590)	-3.646	-3.38	-3.15	-2.88	-0.11	11.48	Pass		
		134 (5670)	-4.852	-4.58	-3.16	-2.89	-0.64	11.48	Pass		

		Maximum Power Spectral Density (dBm/MHz)								
	Channel/ Frequency (MHz)		MI	MO		Total PSD		Pass / Fail		
Mode		Cha	in 0	Cha	in 1	MIMO_ Limits Chain 0+1	Limits			
		Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD		Lillito			
	42 (5230)	-7.173	-6.67	-5.04	-4.53	-2.46	11.48	Pass		
IEEE 802.11ac-	58 (5290)	-6.466	-5.96	-4.94	-4.43	-2.12	11.48	Pass		
VHT80	106 (5530)	-6.857	-6.35	-6.98	-6.47	-3.40	11.48	Pass		
	122 (5610)	-7.372	-6.87	-6.81	-6.30	-3.56	11.48	Pass		



For U-NII-3 band

		Maximum Power Spectral Density (dBm/500kHz)								
	Channel/		SI	SO		Total PSD				
Mode	Frequency	Chain 0		Cha	in 1	MIMO	Limit	Pass / Fail		
	(MHz)	Meas PSD	Corr'd	Meas PSD	Corr'd	Chain 0+1	Lilling	1 4357 1 411		
		Wicas i SD	PSD		PSD					
	149 (5745)	-3.645	-3.49	-1.29	-1.14		30	Pass		
IEEE 802.11a	157 (5785)	-3.614	-3.46	-1.03	-0.88		30	Pass		
	165 (5825)	-3.697	-3.54	-1.10	-0.94		30	Pass		

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		Maximum Power Spectral Density (dBm/500kHz)								
	Channel/ Frequency (MHz)		MII	MO		Total PSD		Pass / Fail		
Mode		Cha	in 0	Cha	in 1	MIMO	Limit			
		Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD	Chain 0+1				
	149 (5745)	-4.302	-4.17	-1.650	-1.52	0.36	29.48	Pass		
IEEE 802.11n-HT20	157 (5785)	-4.441	-4.31	-1.385	-1.25	0.49	29.48	Pass		
	165 (5825)	-4.713	-4.58	-1.559	-1.43	0.29	29.48	Pass		
IEEE 802.11n-HT40	151 (5755)	-8.379	-8.13	-4.96	-4.70	-3.07	29.48	Pass		
ILLL 002.1111-11140	159 (5795)	-8.294	-8.04	-4.68	-4.42	-2.86	29.48	Pass		

		Maximum Power Spectral Density (dBm/500kHz)								
	Channel/ Frequency (MHz)		MII	MO	Total PSD					
Mode		Chai	in 0	Chain 1		MIMO	Limit	Pass / Fail		
		Meas PSD	Corr'd PSD	Meas PSD	Corr'd PSD	Chain 0+1	2	1 4557 1 411		
.===	149 (5745)	-4.391	-4.26	-1.65	-1.52	0.33	29.48	Pass		
IEEE 802.11ac- VHT20	157 (5785)	-4.626	-4.50	-1.44	-1.31	0.39	29.48	Pass		
VH120	165 (5825)	-5.006	-4.88	-1.77	-1.64	0.05	29.48	Pass		
IEEE 802.11ac	151 (5755)	-8.008	-7.74	-5.05	-4.78	-3.00	29.48	Pass		
-VHT40	159 (5795)	-8.688	-8.42	-4.76	-4.49	-3.01	29.48	Pass		

		Maximum Power Spectral Density (dBm/500kHz)								
	Channel/		MI	MO	Total PSD					
Mode	Frequency (MHz)	Cha	in 0	Chain 1		MIMO	Limit	Pass / Fail		
		Meas PSD	Corr'd	Meas PSD	Corr'd	Chain 0+1	Lillie	1 4607 1 411		
			PSD		PSD					
IEEE 802.11ac- VHT80	155 (5775)	-11.812	-11.31	-8.66	-8.16	-6.44	29.48	Pass		

Remark:

- 1. Corr'd PSD = Meas PSD + Duty Cycle Factor
 2. Total (Chain 0+1) = 10*log[(10^{Chain 0/10})+(10^{Chain 1/10})]



