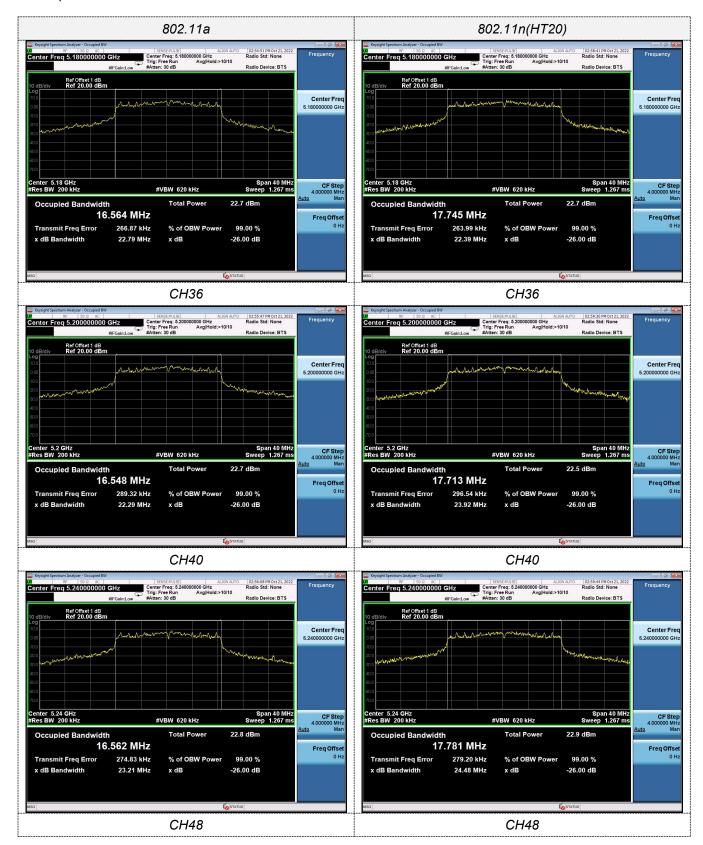
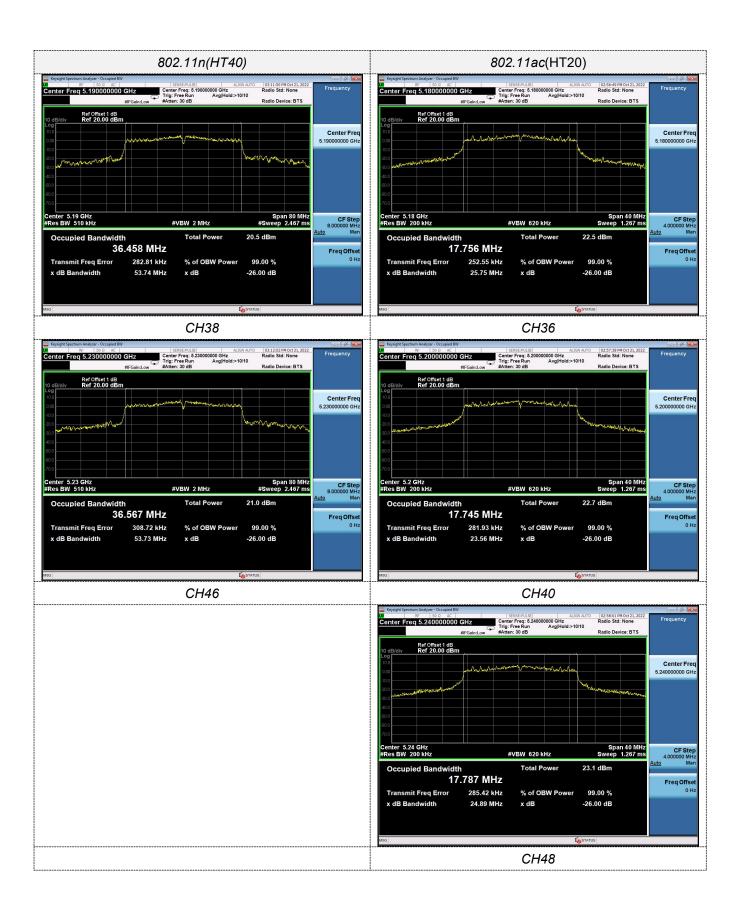
Test plot as follows:







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4.6 Minimum Emission Bandwidth (6dB Bandwidth)

<u>Limit</u>

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

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = Max hold.
- 5. 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.

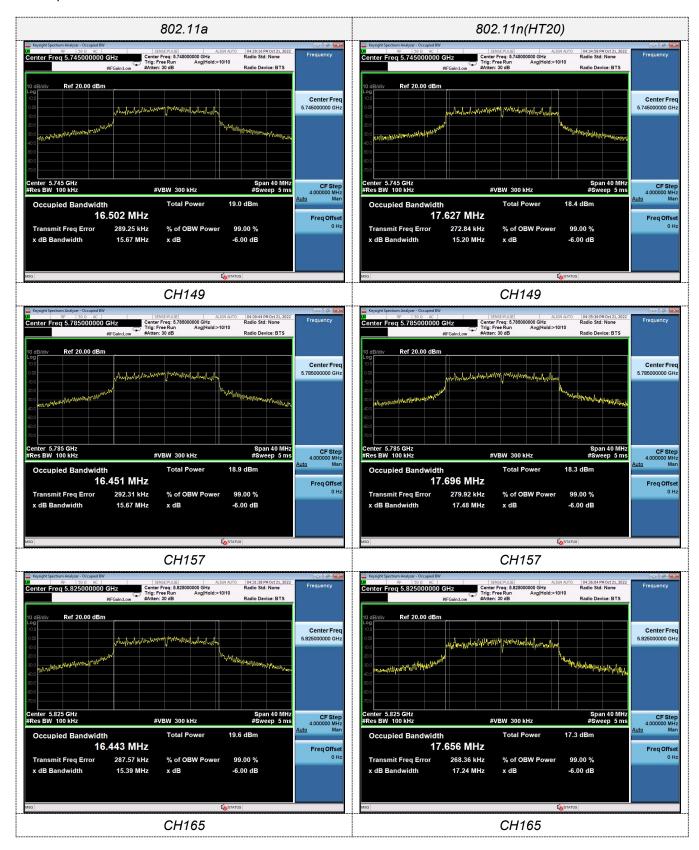
Test Configuration

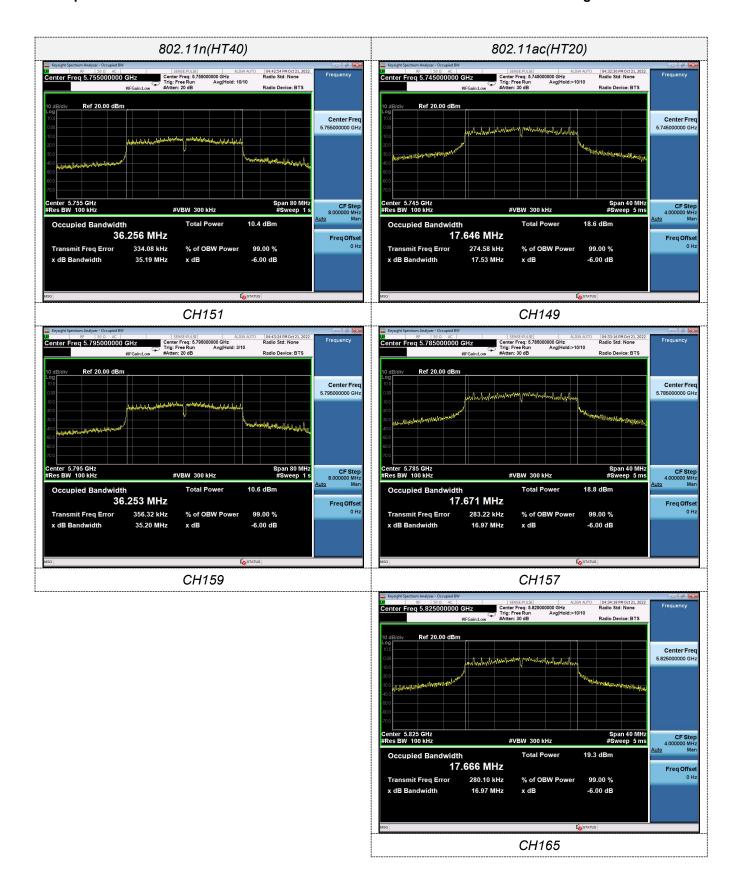


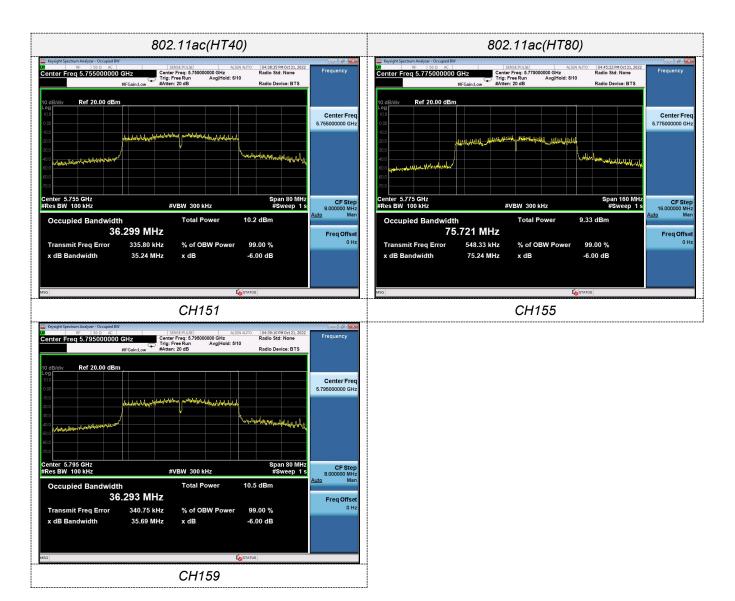
Test Results

Туре	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
	U-NII 3	149	15.67		
802.11a		157	15.67		
		165	15.39		
		149	15.20		
802.11n(HT20)	U-NII 3	157	17.48		
		165	17.24		
902 11n/UT/0)	U-NII 3	151	35.19	≥500KHz	Pass
802.11n(HT40)	U-INII 3	159	35.20	2500KH2	газз
		149	17.53		
802.11ac(HT20)	U-NII 3	157	16.97		
		165	16.97		
802 11ac/UT/0\	U-NII 3	151	35.24		
802.11ac(HT40)	U-INII 3	159	35.69		
802.11ac(HT80)	U-NII 3	155	75.24		

Test plot as follows:







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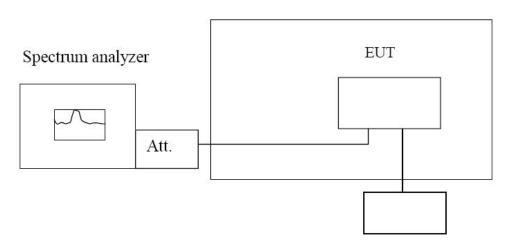
4.7 Frequency Stability

LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

TEST CONFIGURATION

Temperature Chamber



Variable Power Supply

TEST PROCEDURE

Frequency Stability under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20° C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

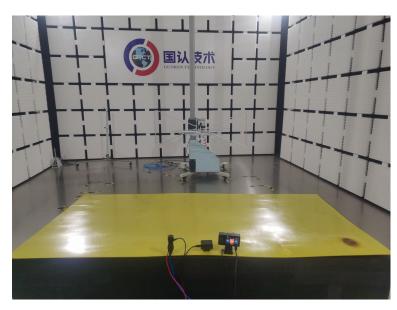
Record worst case as below:

F	Reference Frequency	: 802.11ac chann	el=36 frequency=	5180MHz	
Voltage (V)	Temperature (℃)	Frequer	icy error	Limit (ppm)	Result
	remperature (C)	Hz	ppm	Limit (ppin)	
	-30	135.72	0.02620		
	-20	144.51	0.02790		
	-10	126.16	0.02436		
	0	117.29	0.02264		
12.00	10	125.37	0.02420	Within the	
	20	130.29	0.02515	band of operation	Pass
	30	128.45	0.02480		
	40	117.56	0.02269		
	50	136.84	0.02642		
13.2	25	141.73	0.02736		
10.8	25	132.25	0.02553		

	Reference Frequency:	802.11ac chann	el=149 frequency	=5745MHz	
Voltage (V)	Temperature (°C)	Freque	ncy error	Limit (ppm)	Result
	remperature (C)	Hz	ppm		
12.00	-30	125.15	0.02859		Pass
	-20	134.27	0.03025		
	-10	118.43	0.02662		
	0	127.85	0.02562	Within the band of	
	10	136.43	0.02376		
	20	142.51	0.02364		
	30	137.62	0.02221	operation	
	40	129.48	0.02132		
	50	135.27	0.02427		
13.2	25	131.89	0.02353		
10.8	25	145.36	0.02519		

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5 Test Setup Photos of the EUT





6 Photos of the EUT

Reference to the test report No. GRCTR220902022-01.