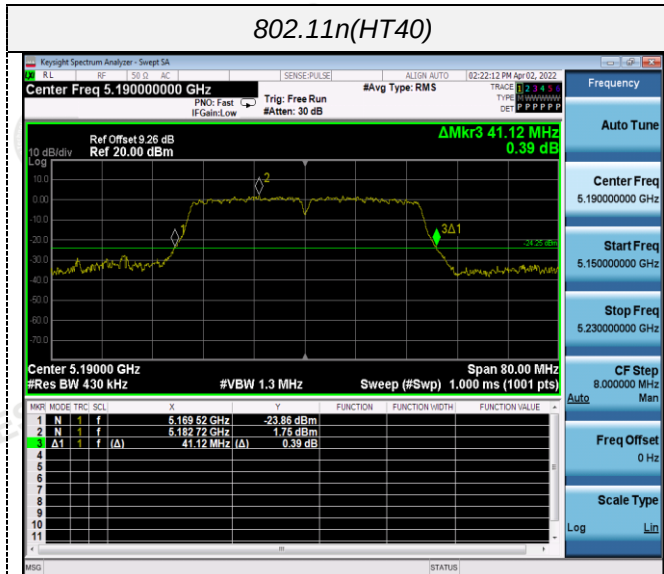
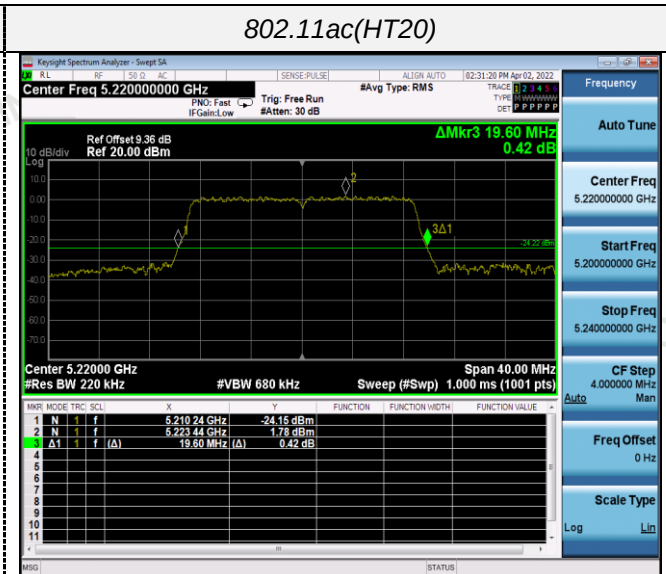


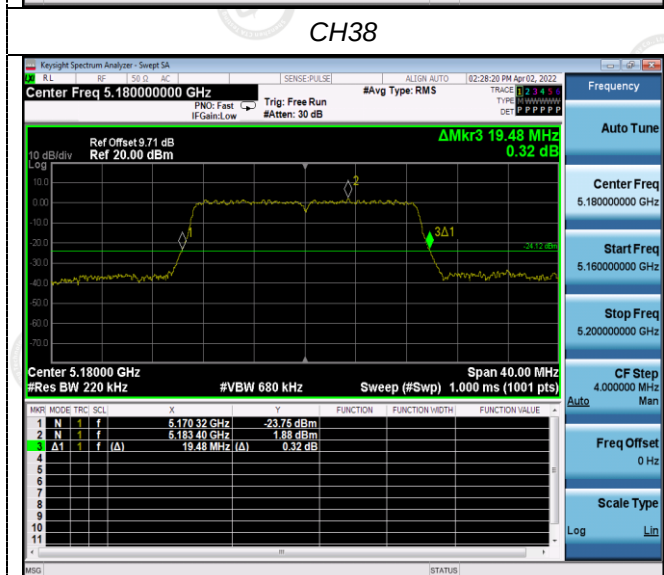
802.11n(HT40)



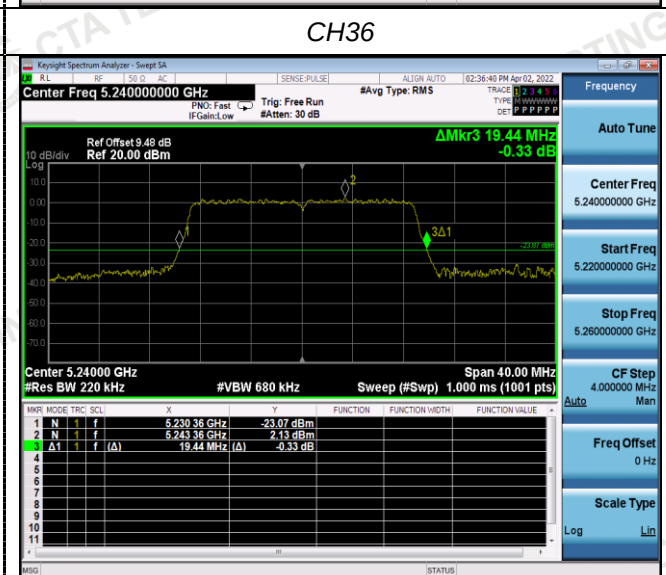
802.11ac(HT20)



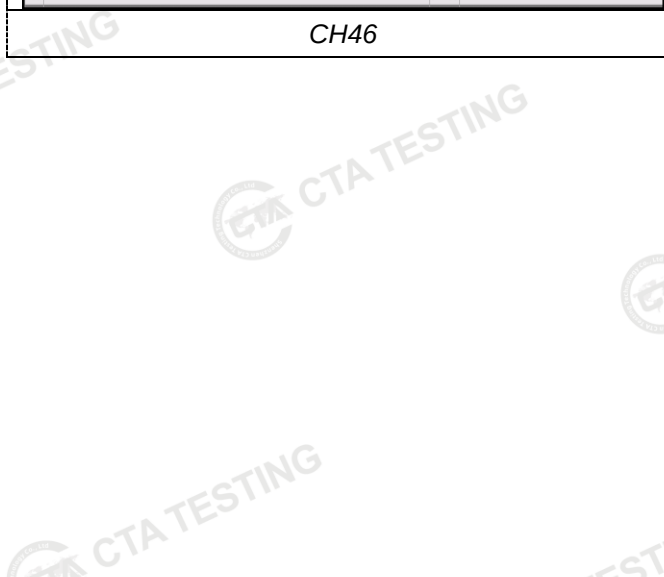
CH38



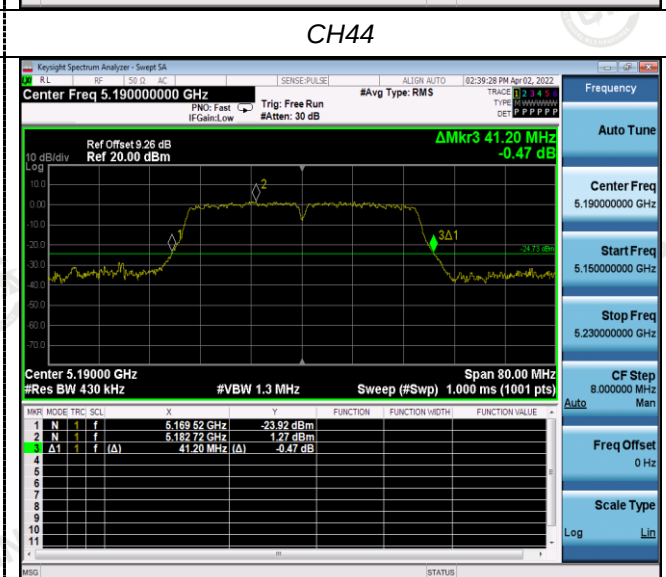
CH36



CH46

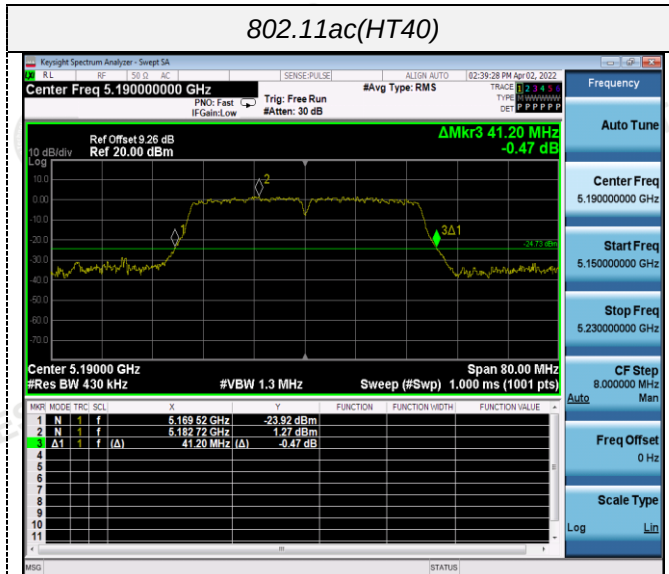


CH44

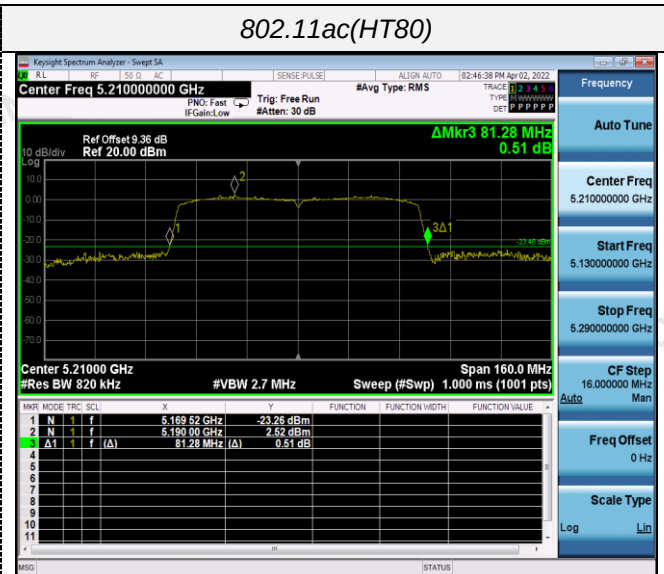


CH48

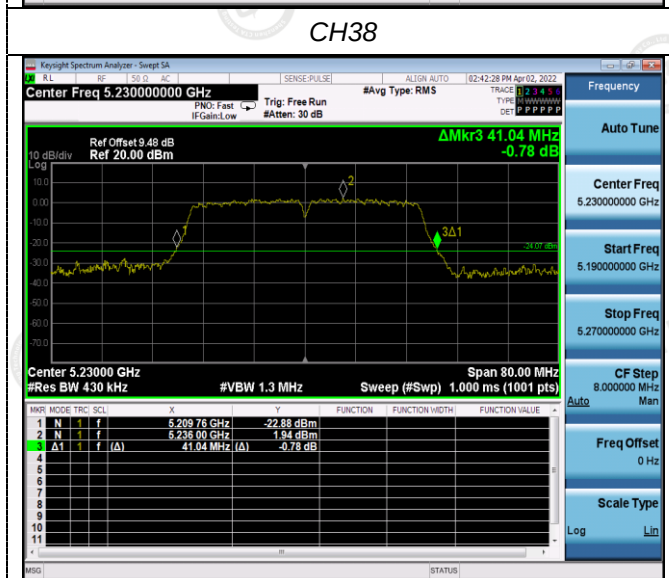
802.11ac(HT40)



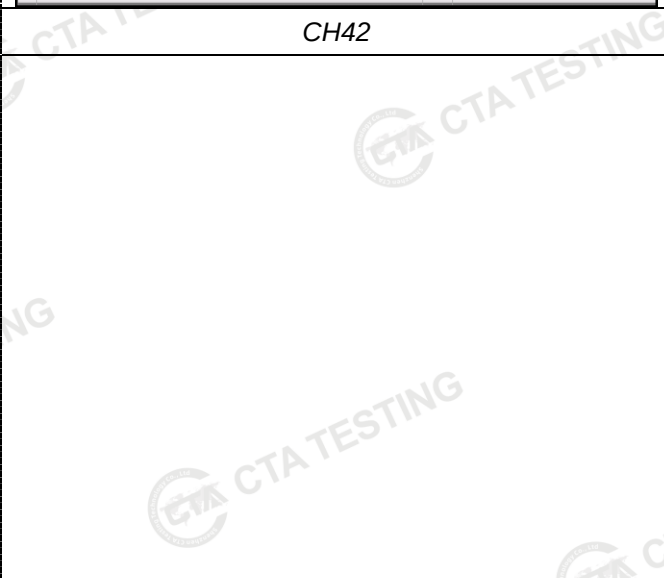
802.11ac(HT80)



CH38



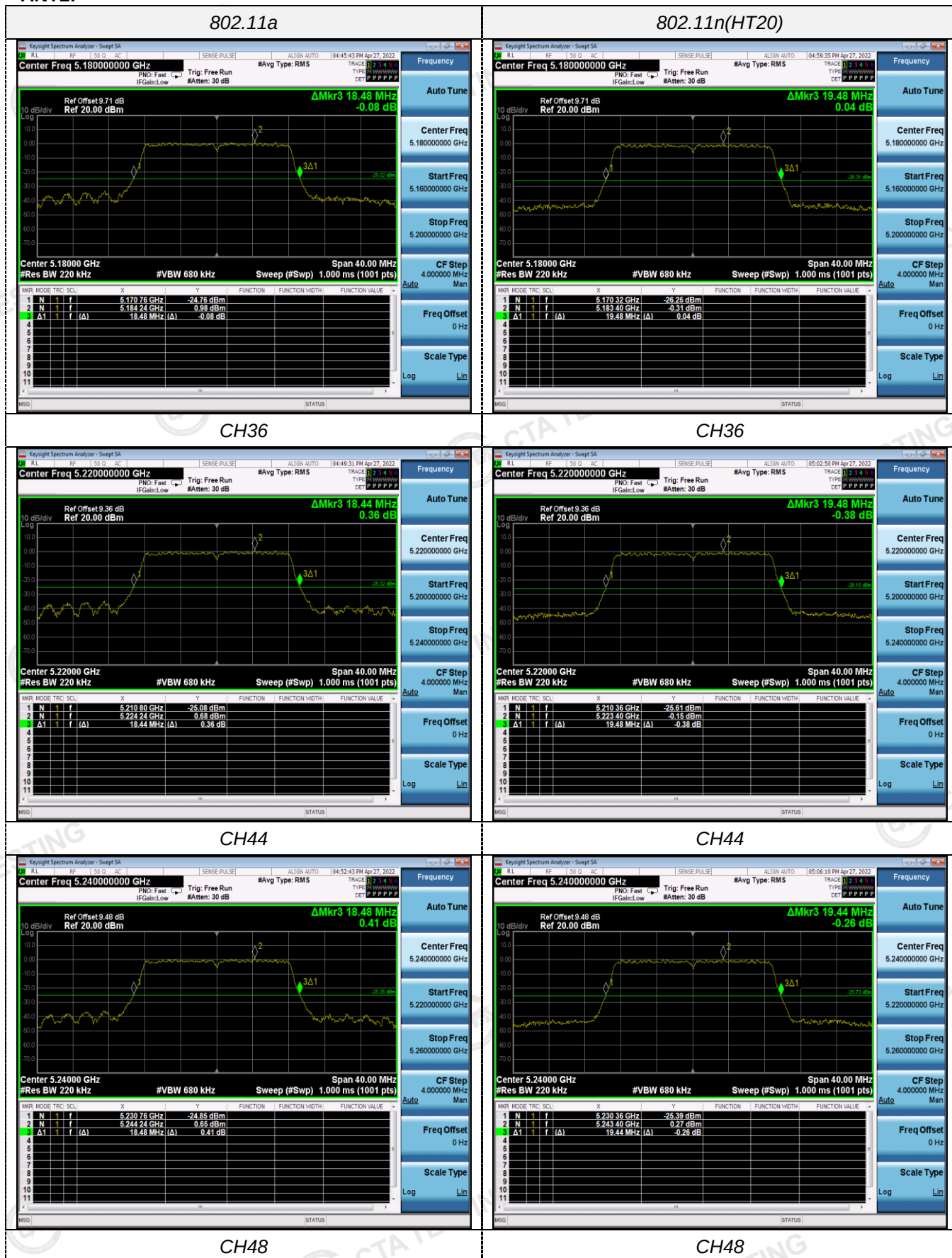
CH42



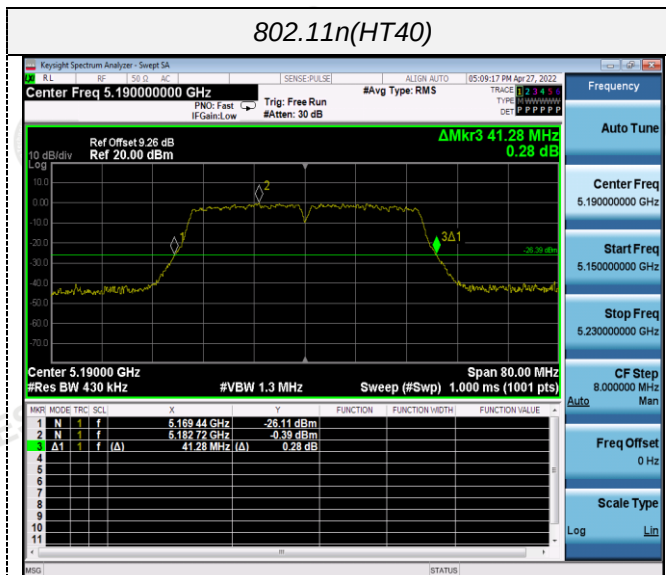
CH46



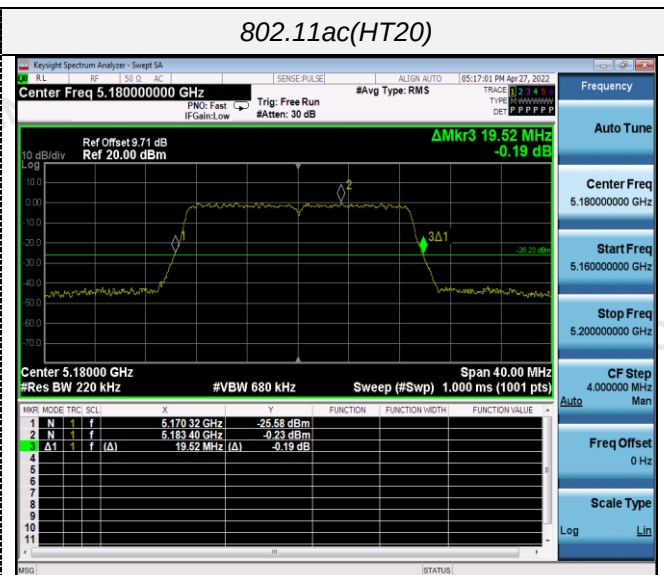
ANT2:



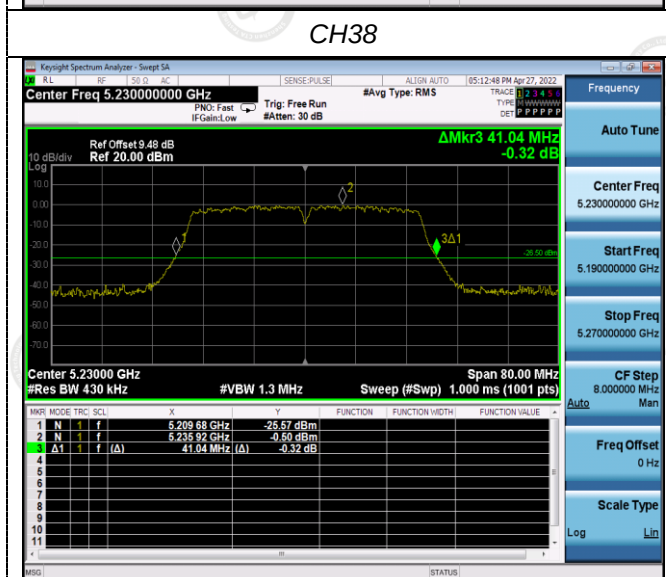
802.11n(HT40)



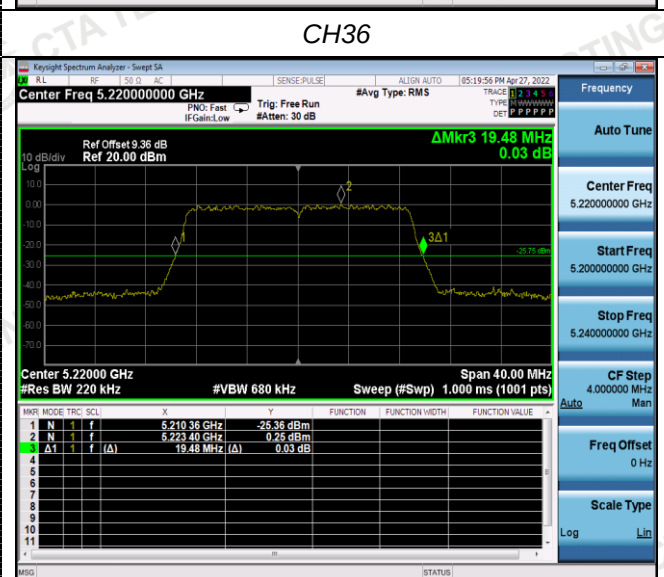
802.11ac(HT20)



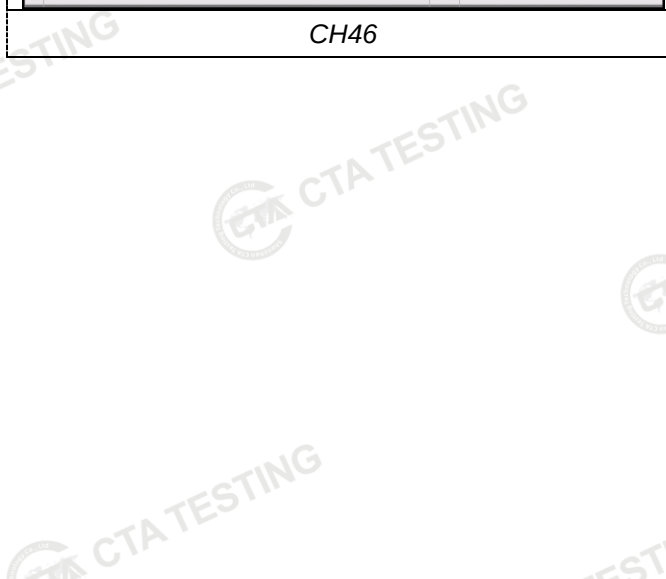
CH38



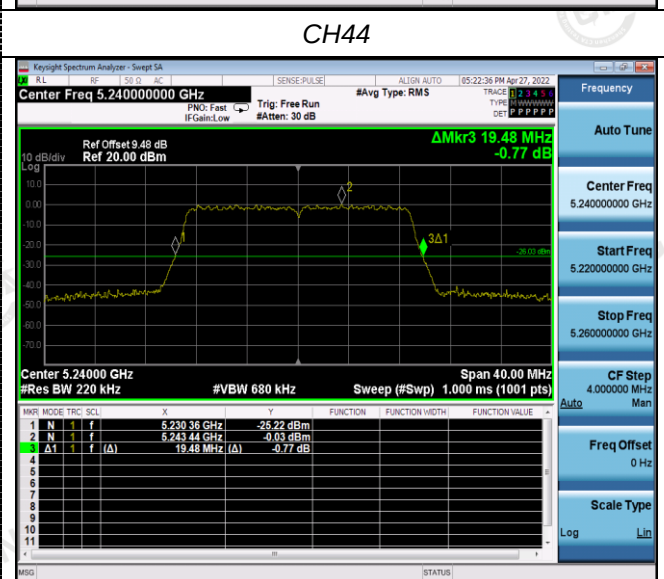
CH36



CH46

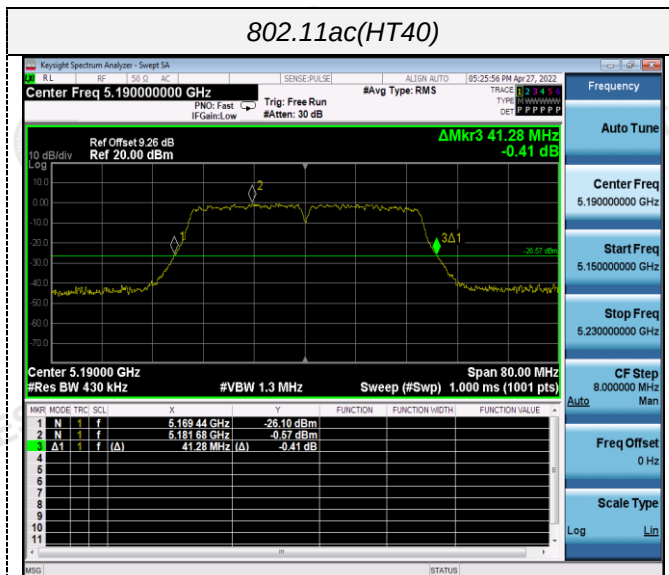


CH44

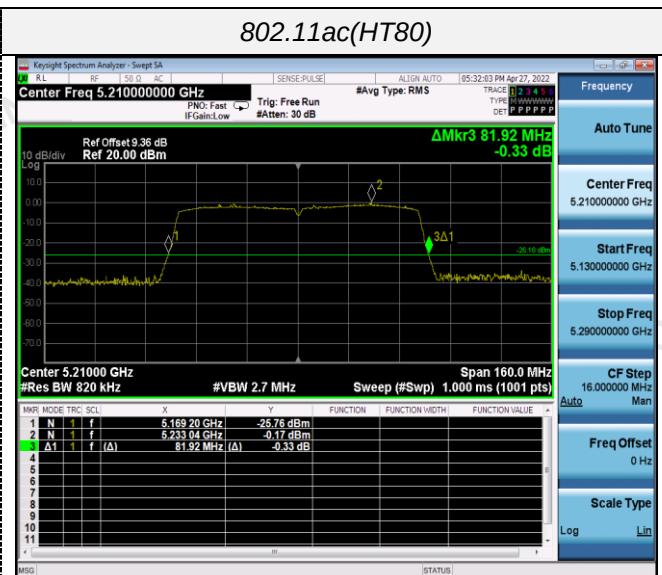


CH48

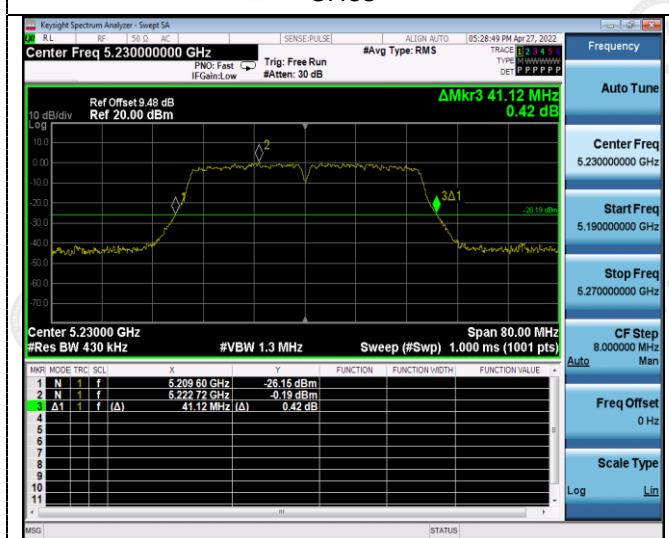
802.11ac(HT40)



802.11ac(HT80)



CH38



CH42



CH46

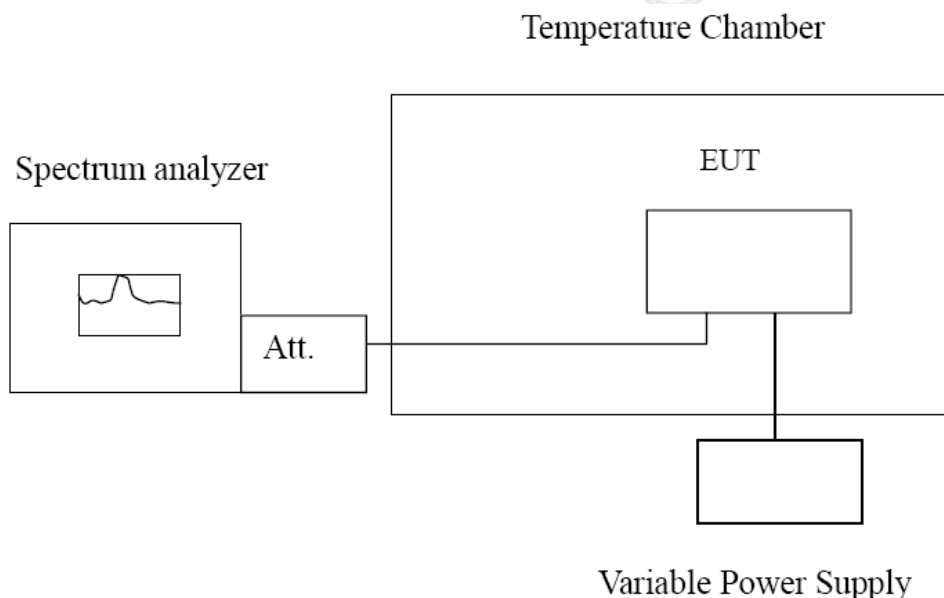


4.6 Frequency Stability

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



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.

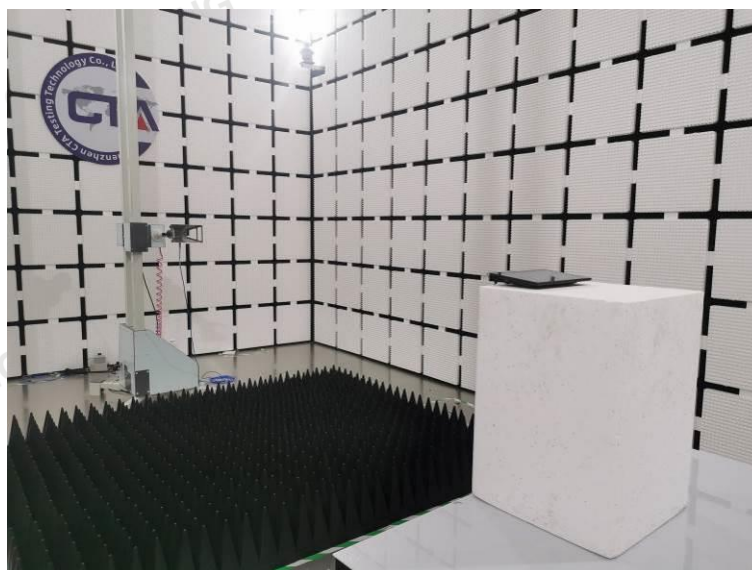
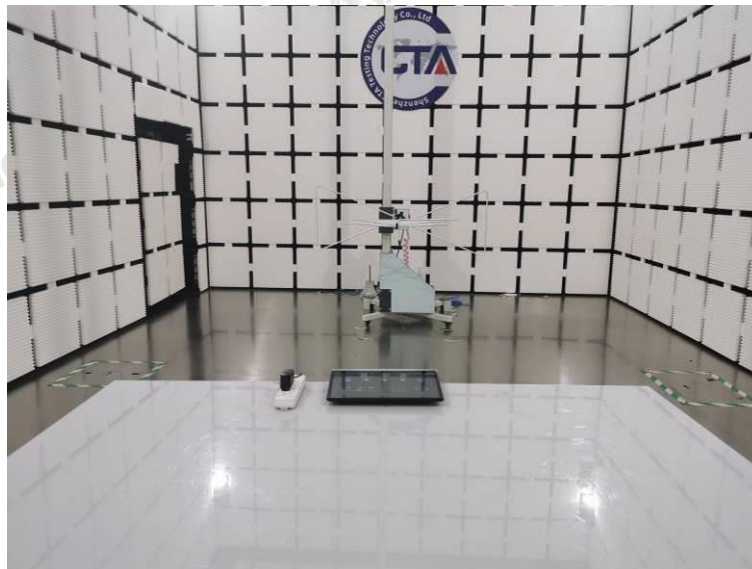
TEST RESULTS

Record worst case as below:

Reference Frequency: 802.11ac channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
AC120	-30	117.53	0.02269	Within the band of operation	Pass
	-20	168.43	0.03252		
	-10	142.85	0.02758		
	0	129.69	0.02504		
	10	137.42	0.02653		
	20	91.85	0.01773		
	30	117.83	0.02275		
	40	138.52	0.02674		
	50	151.48	0.02924		
AC132	25	187.11	0.03612	Within the band of operation	Pass
AC108	25	125.30	0.02419		

Reference Frequency: 802.11ac channel=149 frequency=5745MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
AC120	-30	131.94	0.02297	Within the band of operation	Pass
	-20	117.48	0.02045		
	-10	128.53	0.02237		
	0	148.26	0.02581		
	10	131.72	0.02293		
	20	129.53	0.02255		
	30	153.97	0.02680		
	40	171.53	0.02986		
	50	149.35	0.02600		
AC132	25	141.75	0.02467	Within the band of operation	Pass
AC108	25	129.64	0.02257		

5 Test Setup Photos of the EUT



6 Photos of the EUT

Reference to the test report No. **CTA22033100801**

***** End of Report *****