

11.4 Test Result

Test mode	Test Channel (MHz)	PSD [dBm/MHz]	Limit [dBm/MHz]	Result
802.11a	5180	3.298	11	Pass
	5200	3.545	11	Pass
	5240	3.152	11	Pass
802.11ac(VH20)	5180	3.339	11	Pass
	5200	3.488	11	Pass
	5240	2.770	11	Pass
802.11ac(VH40)	5190	-0.251	11	Pass
	5230	-1.071	11	Pass
802.11ac(VH80)	5210	-8.492	11	Pass
802.11n(HT20)	5180	3.445	11	Pass
	5200	3.816	11	Pass
	5240	3.542	11	Pass
802.11n(HT40)	5190	-0.469	11	Pass
	5230	-0.851	11	Pass

Test mode	Test Channel (MHz)	PSD [dBm/500kHz]	Limit [dBm/MHz]	Result
802.11a	5745	0.197	30	Pass
	5785	1.629	30	Pass
	5825	4.066	30	Pass
802.11ac(VH20)	5745	0.717	30	Pass
	5785	1.222	30	Pass
	5825	0.507	30	Pass
802.11ac(VH40)	5755	-1.492	30	Pass
	5795	-1.315	30	Pass
802.11ac(VH80)	5775	-4.224	30	Pass
802.11n(HT20)	5745	0.807	30	Pass
	5785	1.602	30	Pass
	5825	1.931	30	Pass
802.11n(HT40)	5755	-1.948	30	Pass
	5795	-0.816	30	Pass

5180-5240MHz

802.11a-5180



802.11a-5200



802.11a-5240



802.11ac(VH20)-5180



802.11ac(VH20)-5200



802.11ac(VH20)-5240



802.11ac(VH40)-5190

802.11ac(VH40)-5230



802.11ac(VH80)-5210



802.11n(HT20)-5180



802.11n(HT20)-5200



802.11n(HT20)-5240



802.11n(HT40)-5190



802.11n(HT40)-5230



5745-5825MHz

802.11a-5745



802.11a-5785



802.11a-5825



802.11ac(VH20)-5745



802.11ac(VH20)-5785



802.11ac(VH20)-5825



802.11ac(VH40)-5755

802.11ac(VH40)-5795



802.11ac(VH80)-5775



802.11n(HT20)-5745



802.11n(HT20)-5785



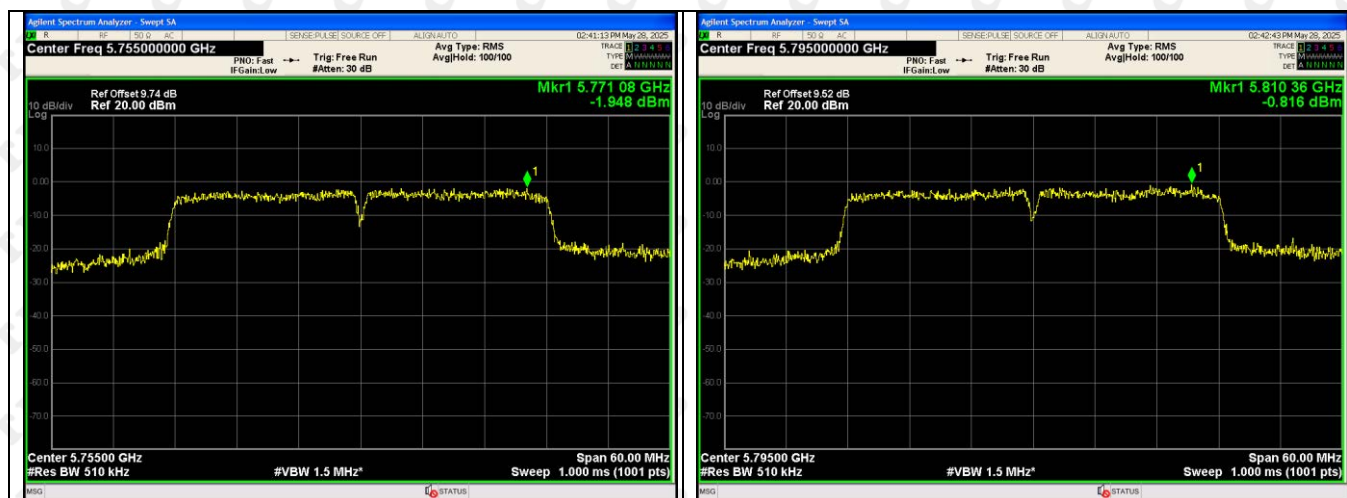
802.11n(HT20)-5825



5802.11n(HT40)-5755

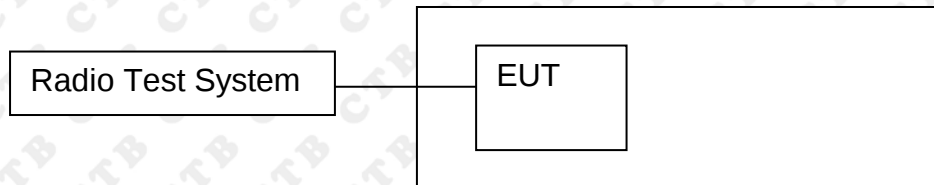


802.11n(HT40)-5795



12. FREQUENCY STABILITY

12.1 Block Diagram Of Test Setup



12.2 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 user's manual.

12.3 Test procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

12.4 Test Result

Pass

13. OPERATION IN THE ABSENCE OF INFORMATION TO THE TRANSMIT

13.1 Requirement

15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

13.2 Test Results

Operation in the absence of information to the transmit:

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of WLAN message transmitting from remote device and verify whether it shall reconnect. (manufacturer declare)

14. ANTENNA REQUIREMENT

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is External Antenna and no consideration of replacement. The best case gain of the antenna WiFi (5.2G): 2.49dBi, WiFi (5.8G): 2.57dBi

15. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

Below 1G



Above 1G



Conducted Emission



***** END OF REPORT *****