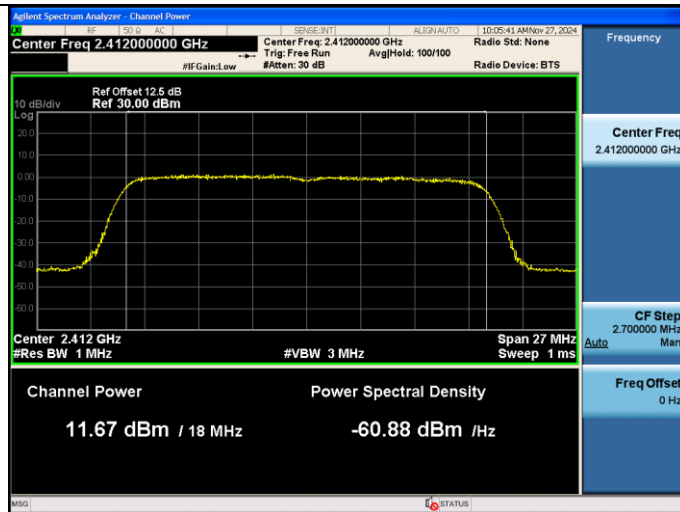
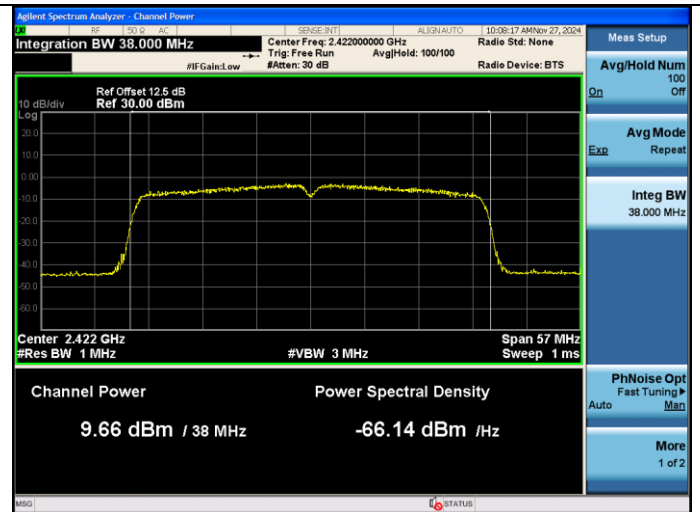


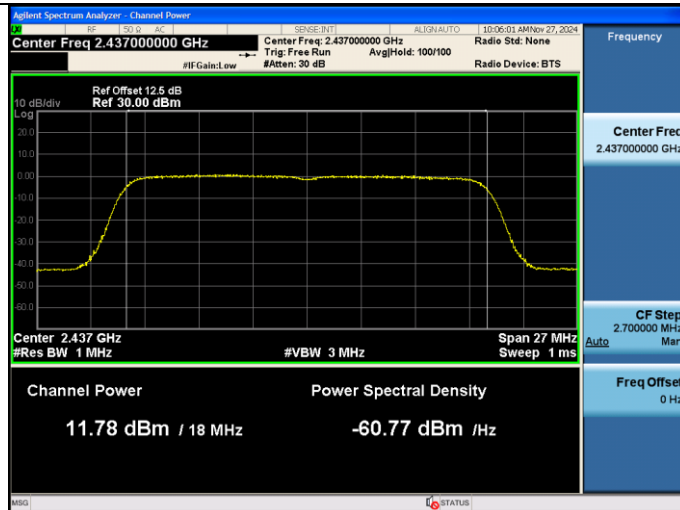
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



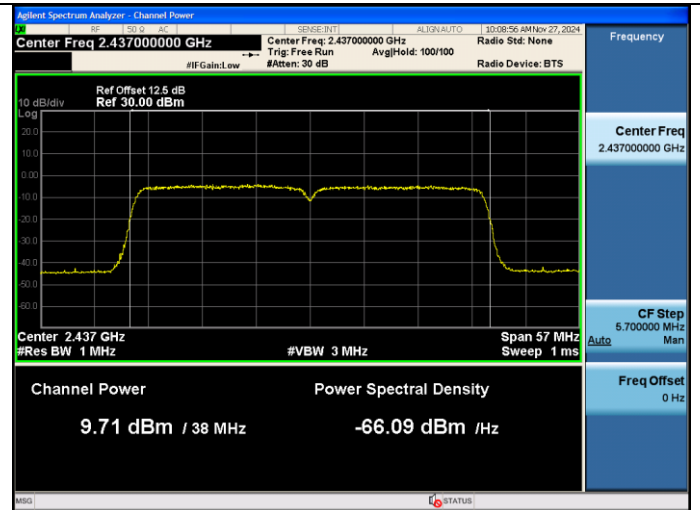
Test Mode: IEEE 802.11n HT40
Test CH1: 2422MHz



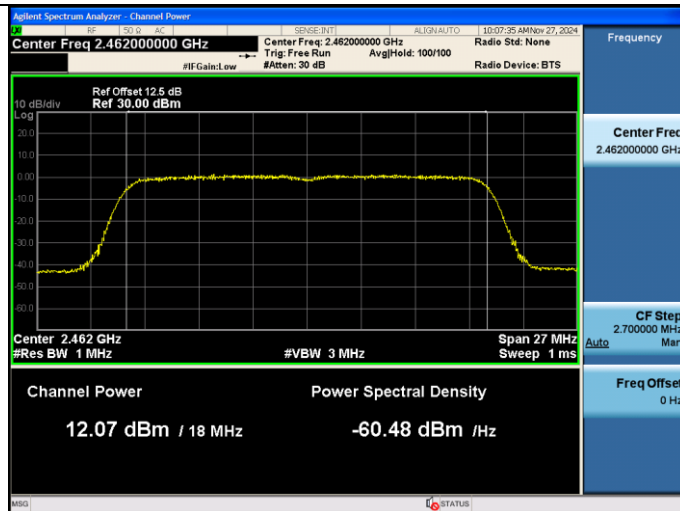
Test CH6: 2437MHz



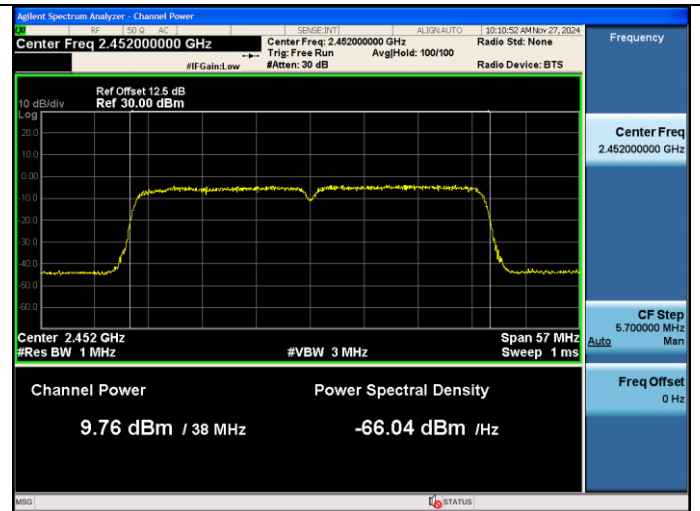
Test CH6: 2437MHz



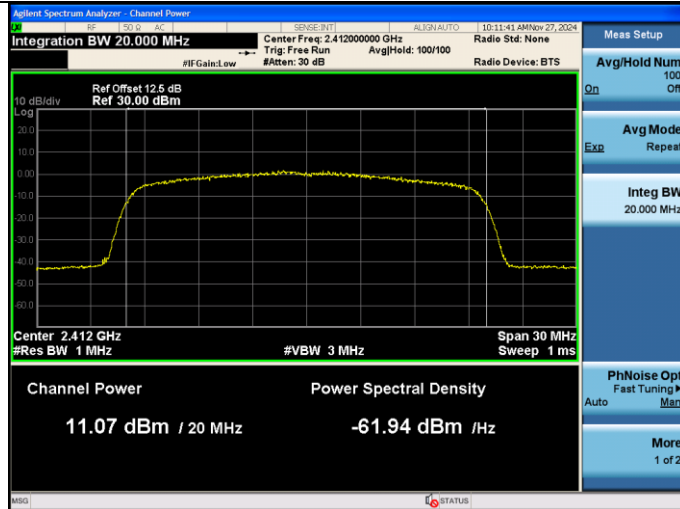
Test CH11: 2462MHz



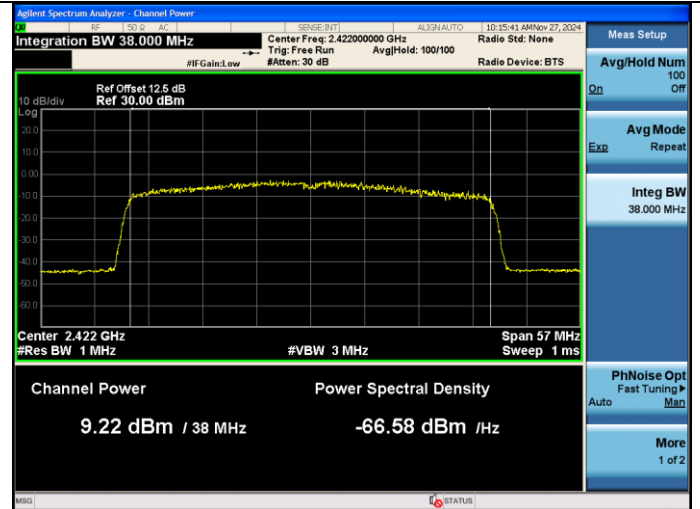
Test CH11: 2452MHz



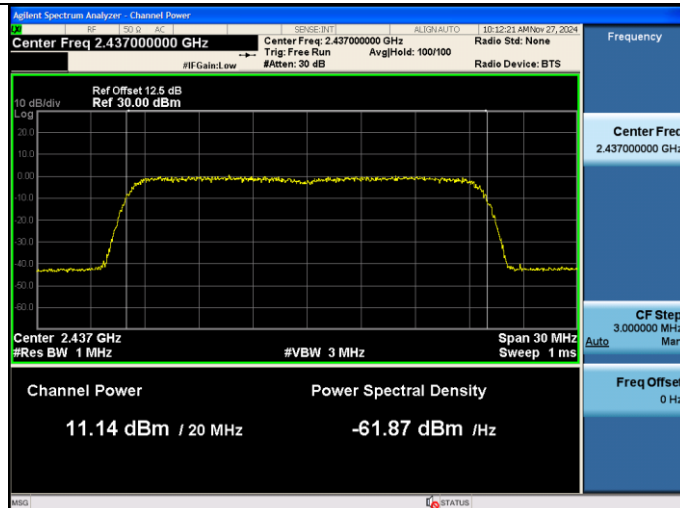
Test Mode: IEEE 802.11ax HE20
Test CH1: 2412MHz



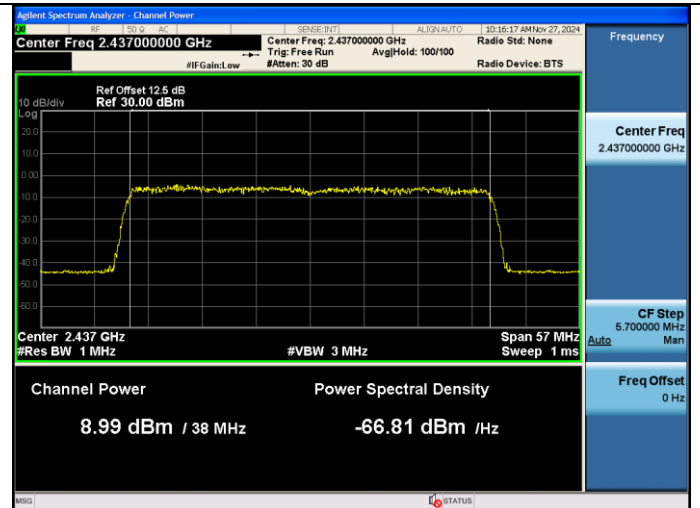
Test Mode: IEEE 802.11ax HE40
Test CH1: 2422MHz



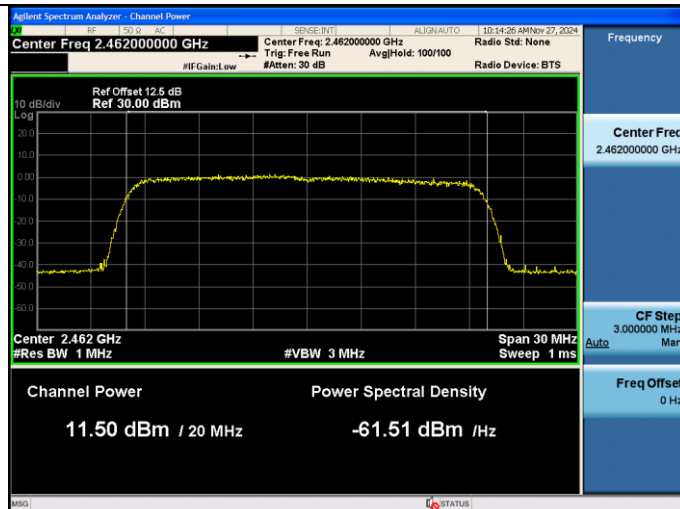
Test CH6: 2437MHz



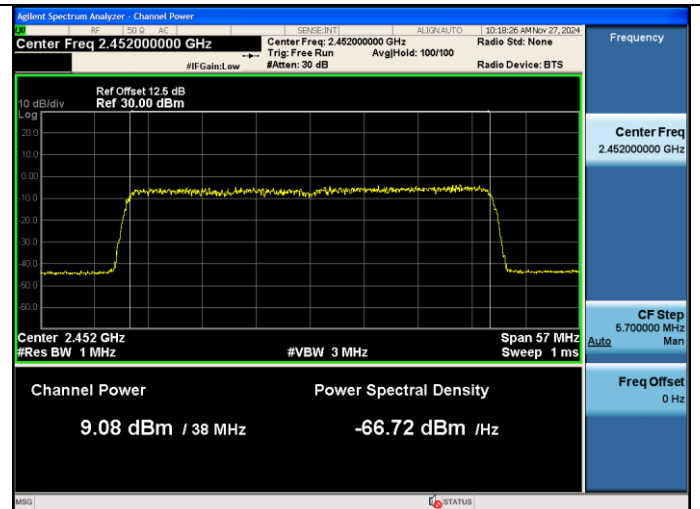
Test CH6: 2437MHz



Test CH11: 2462MHz



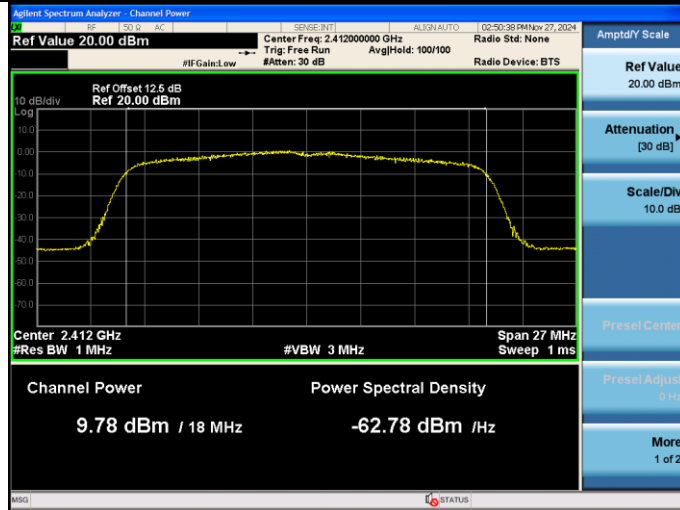
Test CH11: 2452MHz



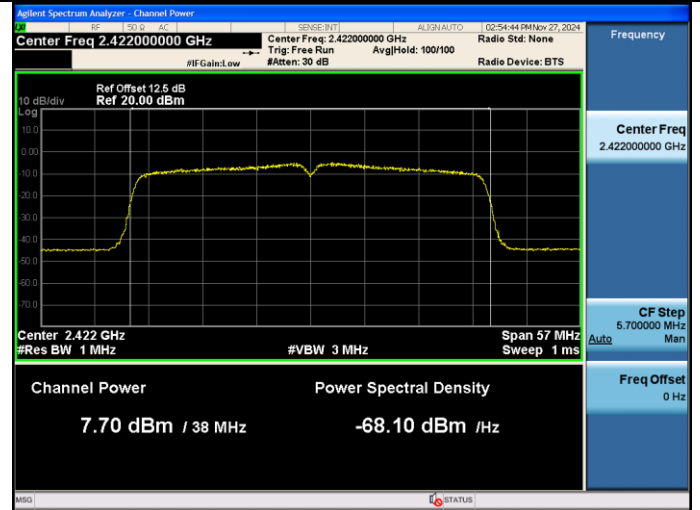
MIMO:

ANT0

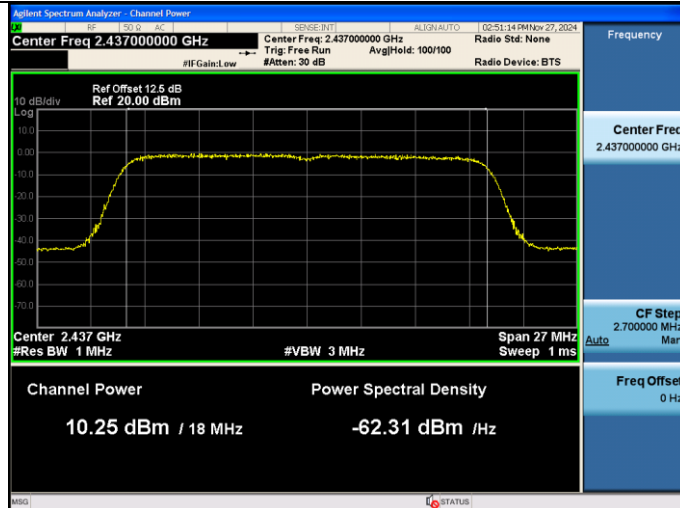
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



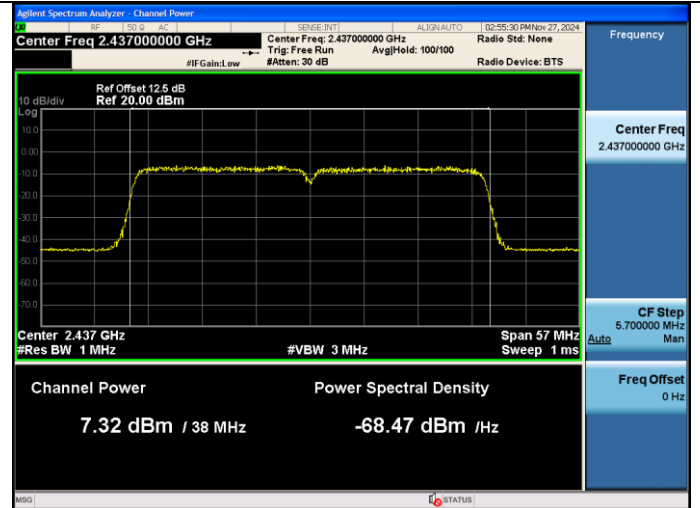
Test Mode: IEEE 802.11n HT40
Test CH1: 2422MHz



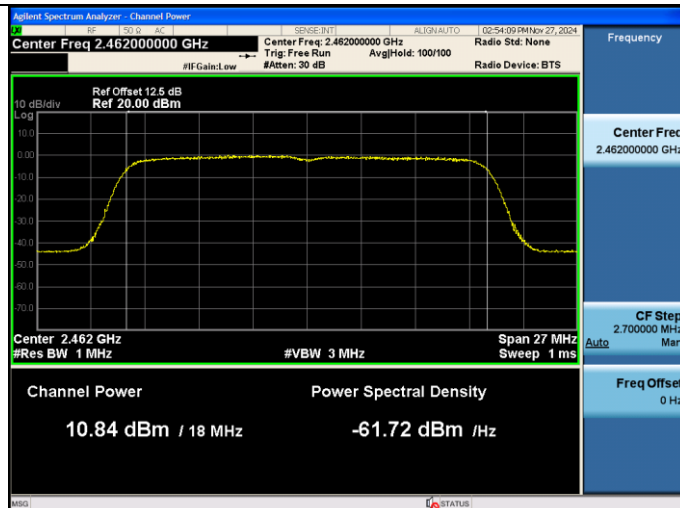
Test CH6: 2437MHz



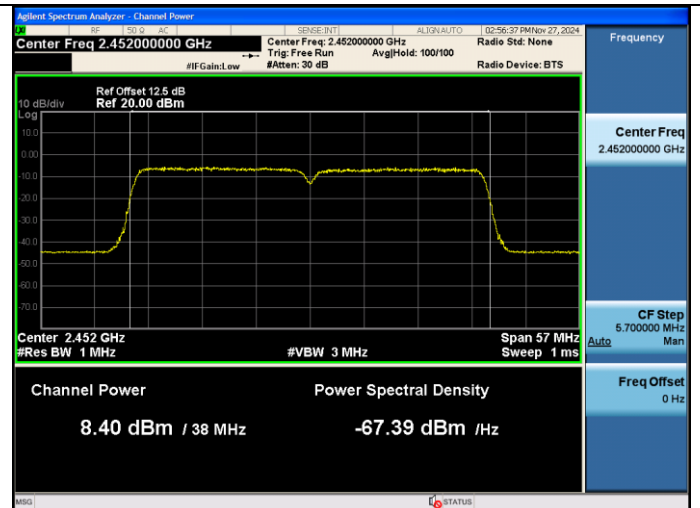
Test CH6: 2437MHz



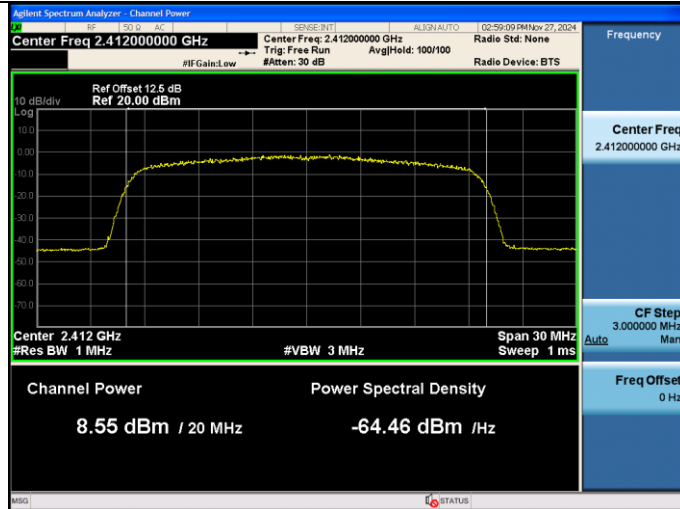
Test CH11: 2462MHz



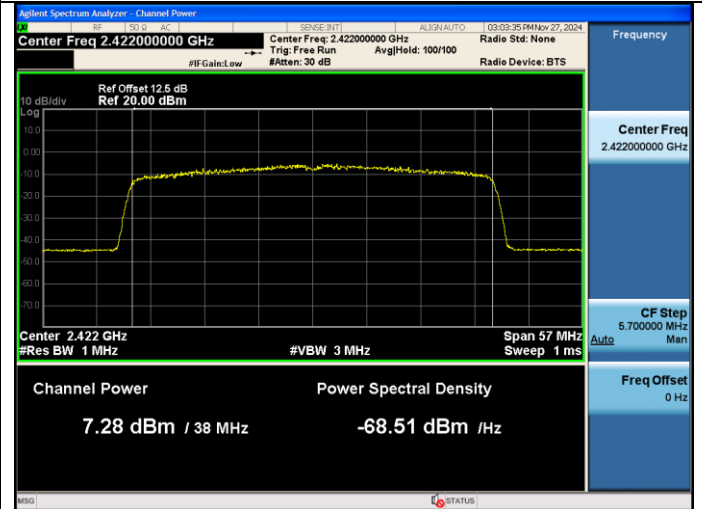
Test CH11: 2452MHz



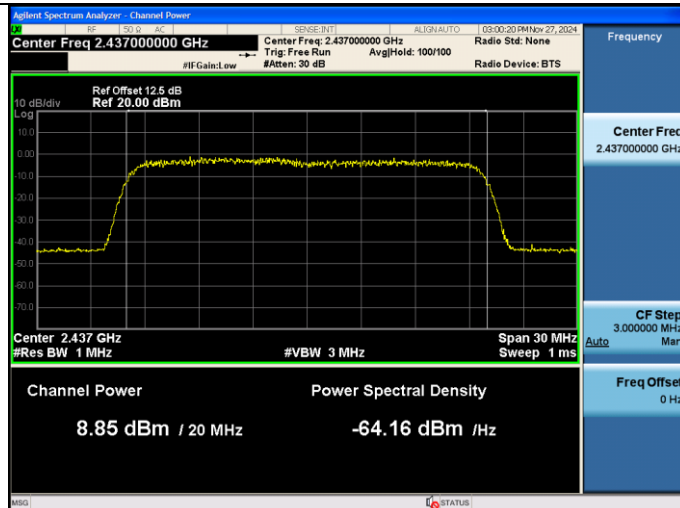
Test Mode: IEEE 802.11ax HE20
Test CH1: 2412MHz



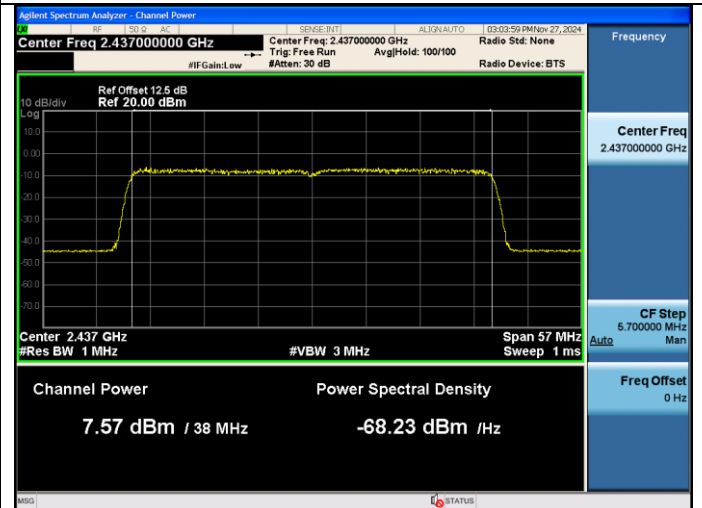
Test Mode: IEEE 802.11ax HE40
Test CH1: 2422MHz



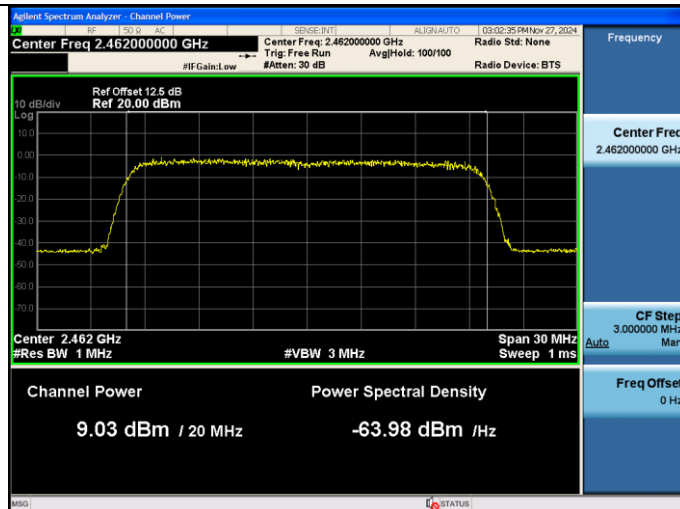
Test CH6: 2437MHz



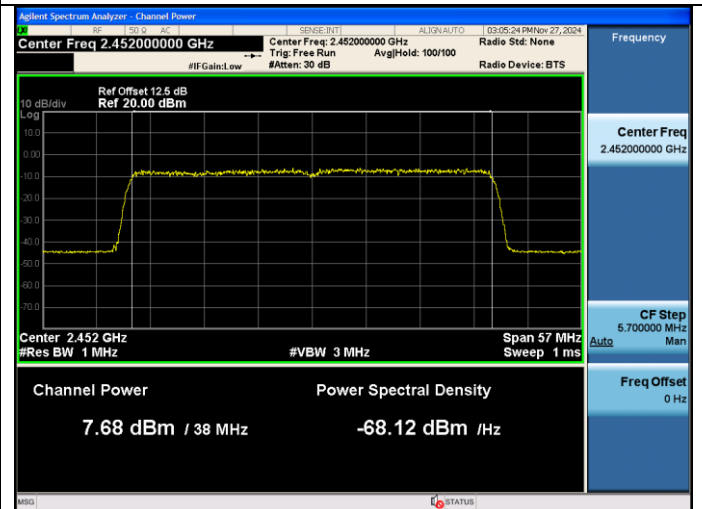
Test CH6: 2437MHz



Test CH11: 2462MHz

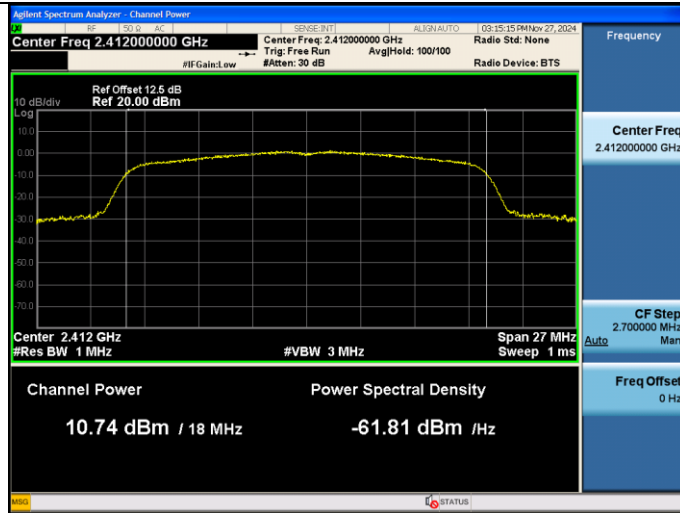


Test CH11: 2452MHz

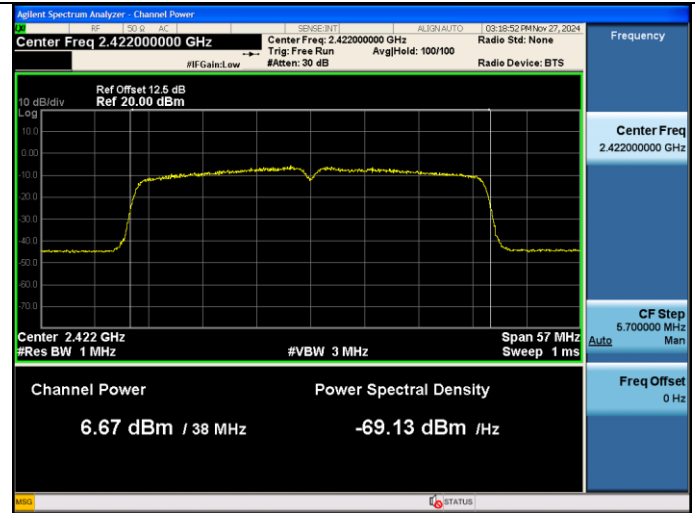


ANT1

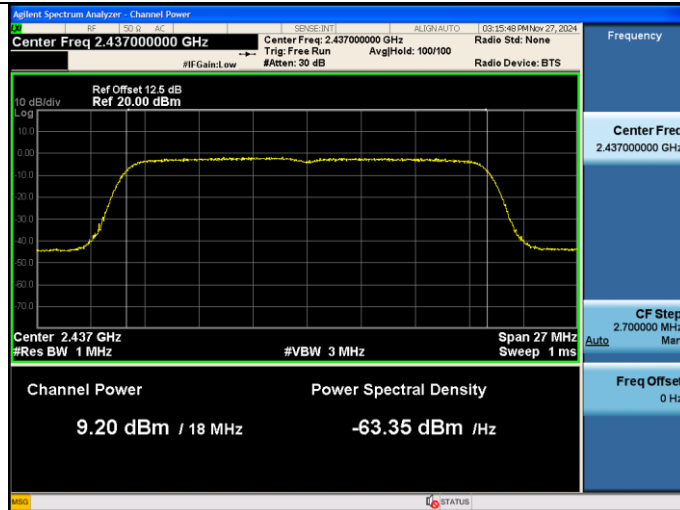
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



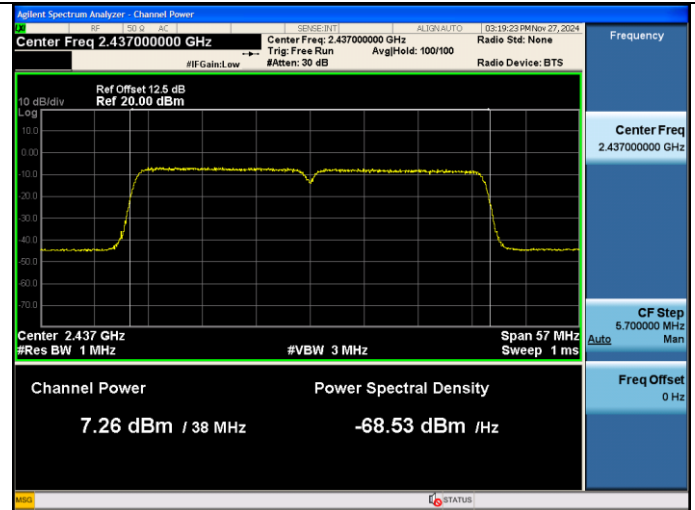
Test Mode: IEEE 802.11n HT40
Test CH1: 2422MHz



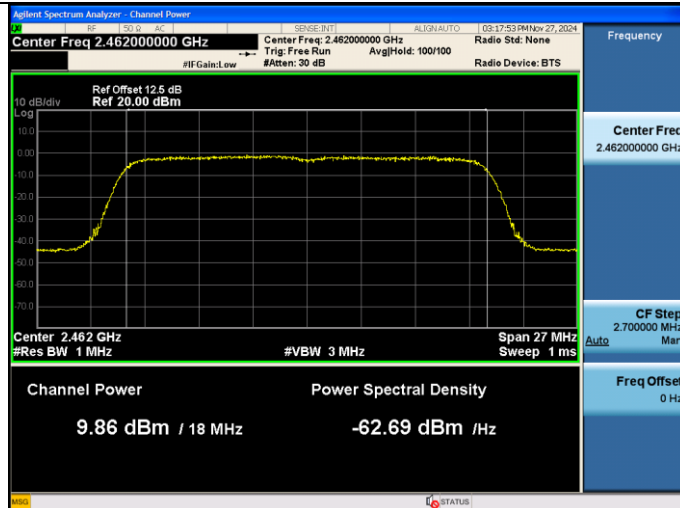
Test CH6: 2437MHz



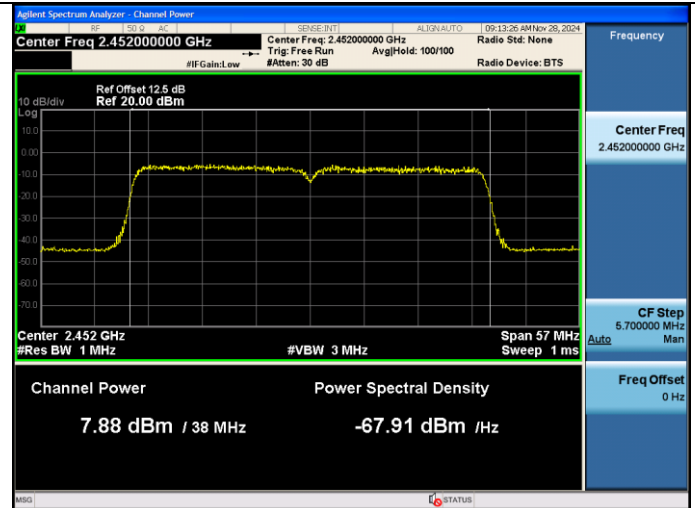
Test CH6: 2437MHz



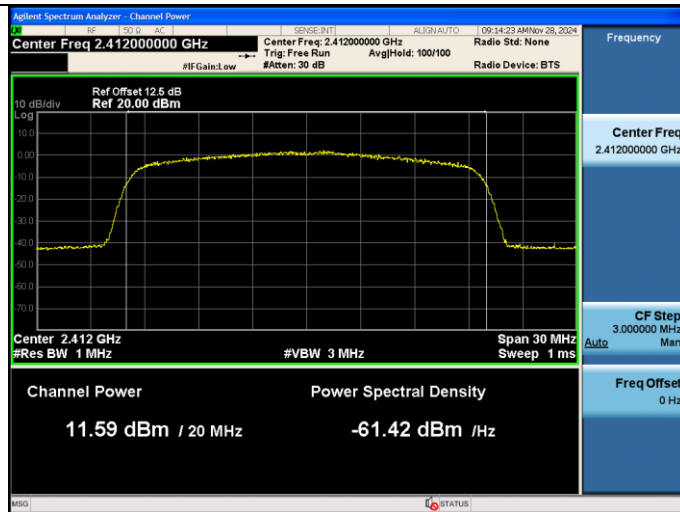
Test CH11: 2462MHz



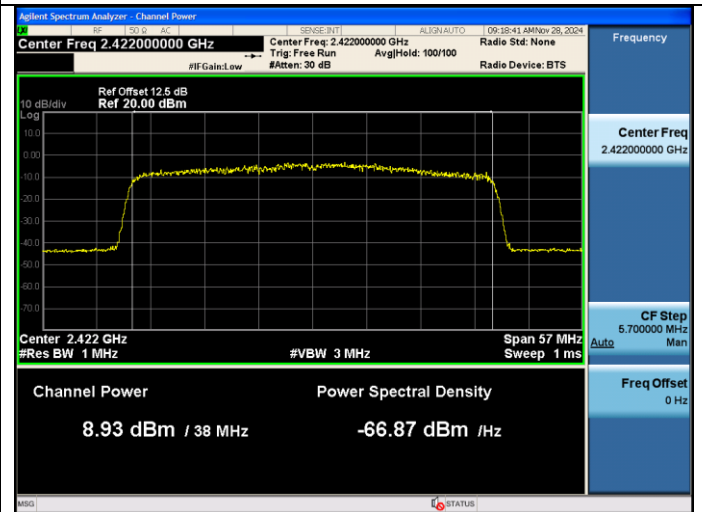
Test CH11: 2452MHz



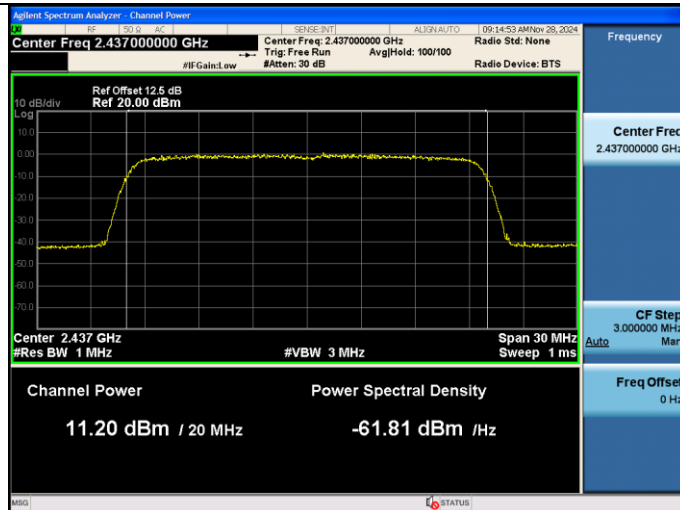
Test Mode: IEEE 802.11ax HE20
Test CH1: 2412MHz



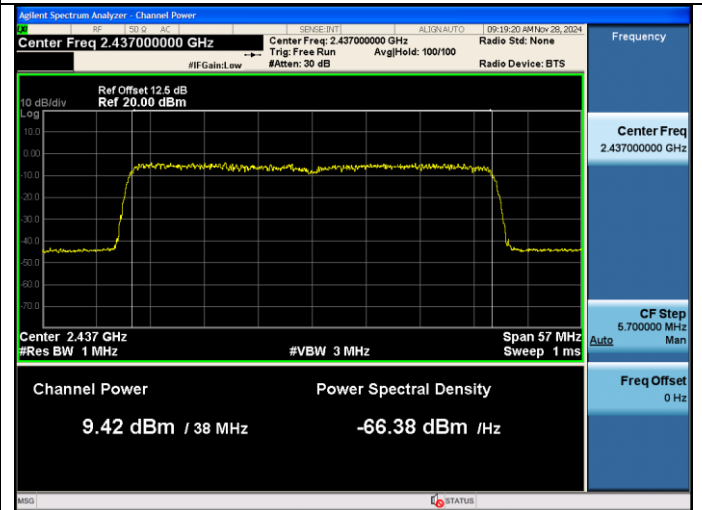
Test Mode: IEEE 802.11ax HE40
Test CH1: 2422MHz



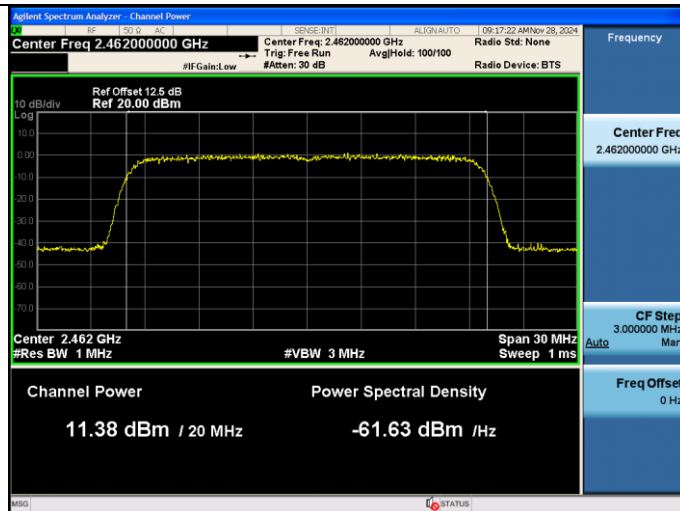
Test CH6: 2437MHz



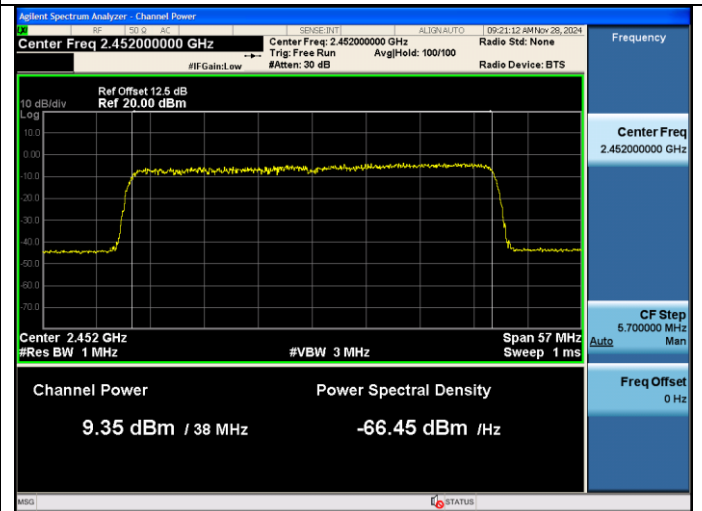
Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH11: 2452MHz



9. POWER SPECTRAL DENSITY TEST

9.1.Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.2.Test Procedure

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

9.3.Test Results

EUT: Notebook Computer		
M/N: N24B4		
Test date: 2024-12-30	Pressure: 103.1±1.0 kpa	Humidity: 51.5±3.0%
Tested by: Evan	Test site: RF site	Temperature: 22.5±0.6℃

SISO:

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)
11b ANT0	2412	-7.322	8
	2437	-7.269	
	2462	-7.235	
11b ANT1	2412	-7.161	8
	2437	-7.224	
	2462	-7.450	
11g ANT0	2412	-10.831	8
	2437	-10.863	
	2462	-9.700	
11g ANT1	2412	-11.096	8
	2437	-11.096	
	2462	-9.647	

Conclusion : PASS

Note: 1. Directional Gain= $10 \log[(10^{3.63/10} + 10^{2.93/10})/2]$ dBi = 3.29dBi < 6dBi.

2. The transmit signals are uncorrelated.

MIMO:

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/3KHz)			Limit (dBm/3KHz)
		ANT0	ANT1	Total	
11n HT20	2412	-9.651	-10.224	-6.92	8
	2437	-9.710	-10.152	-6.92	
	2462	-9.819	-10.366	-7.07	
11ax HE20	2412	-11.436	-11.286	-8.35	8
	2437	-11.336	-11.679	-8.49	
	2462	-11.788	-11.459	-8.61	
11n HT20	2412	-9.995	-10.290	-7.13	8
	2437	-9.732	-10.227	-6.96	
	2462	-9.593	-10.363	-6.95	
11ax HE20	2412	-11.495	-12.532	-8.97	8
	2437	-13.190	-12.671	-9.91	
	2462	-13.288	-12.619	-9.93	
Conclusion : PASS					

Note: 1. Directional Gain= $10 \log[(10^{3.63/10} + 10^{2.93/10})/2]$ dBi = 3.29dBi < 6dBi.

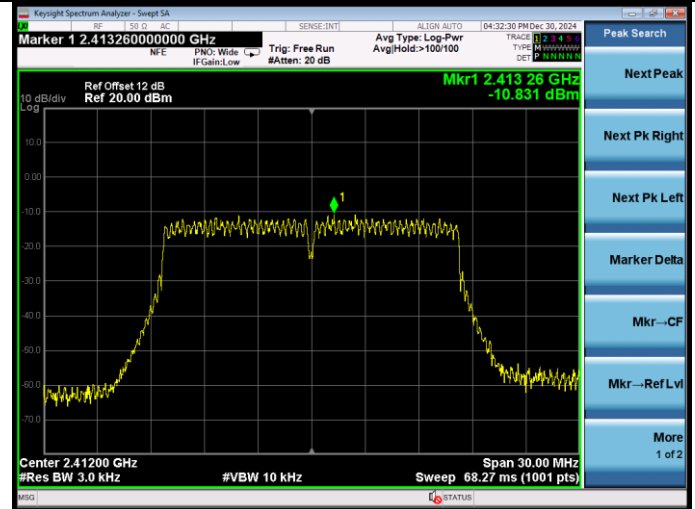
2. The transmit signals are uncorrelated.

3. $10 * \text{LOG}_{10}(10^{(\text{ant0}/10)} + 10^{(\text{ant1}/10)})$

ANT0

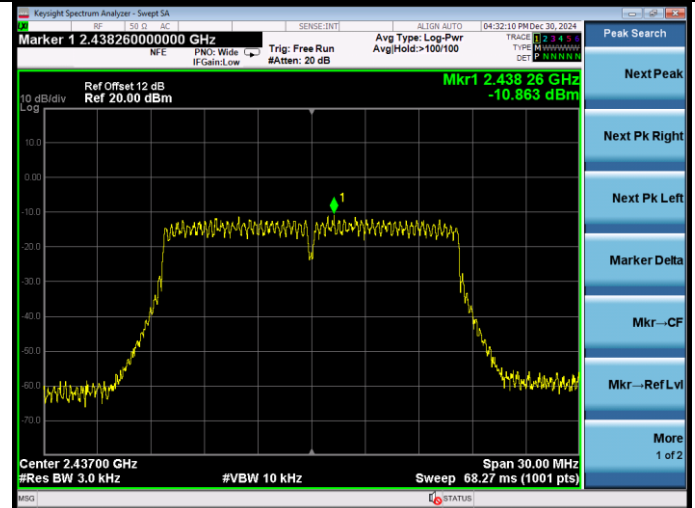
Test Mode: IEEE 802.11b
Test CH1: 2412MHz

Test Mode: IEEE 802.11g
Test CH1: 2412MHz



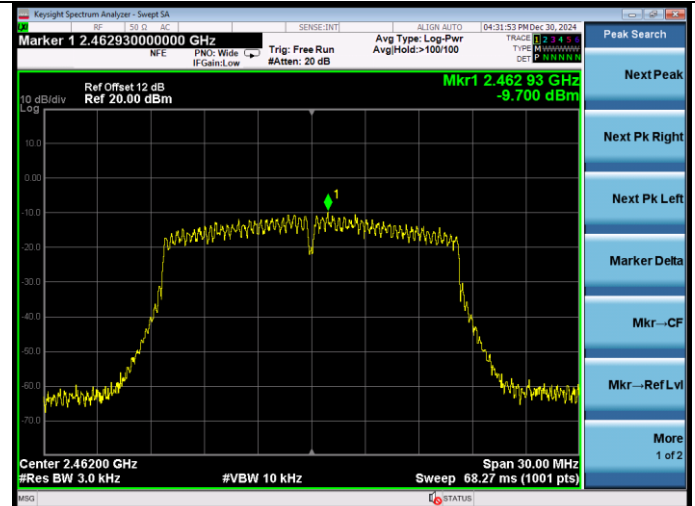
Test CH6: 2437MHz

Test CH6: 2437MHz



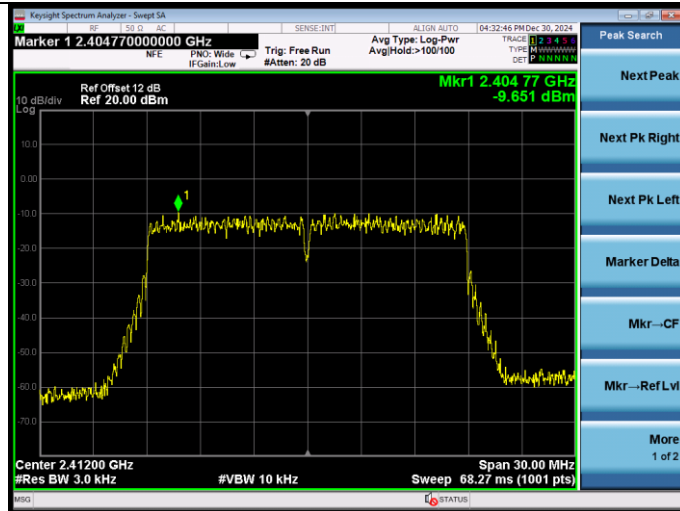
Test CH11: 2462MHz

Test CH11: 2462MHz

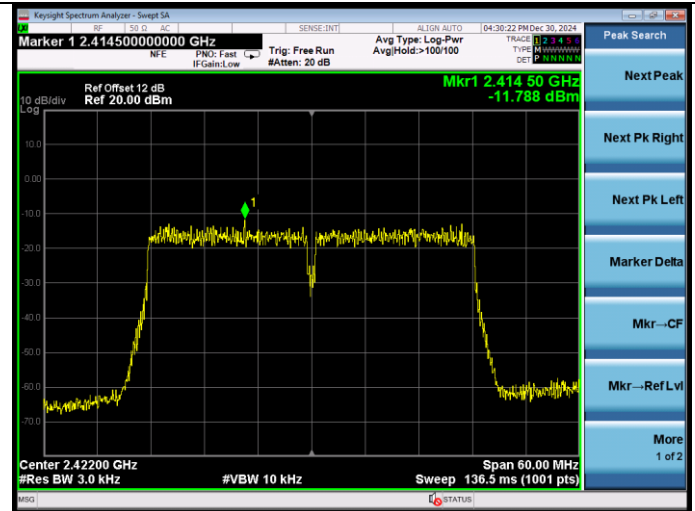


ANT0

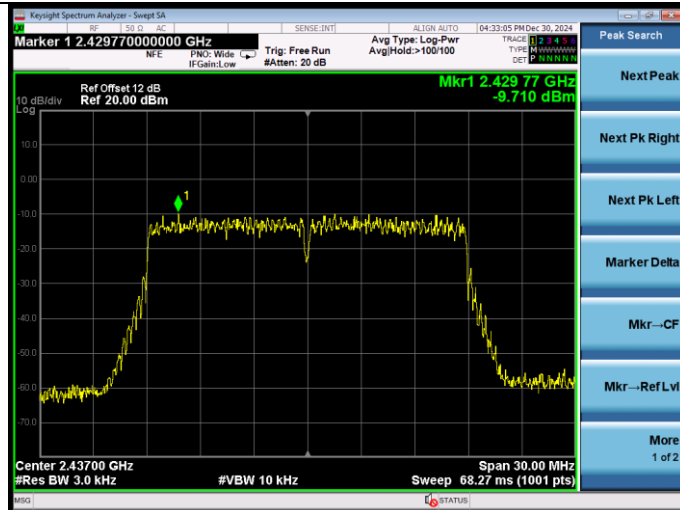
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



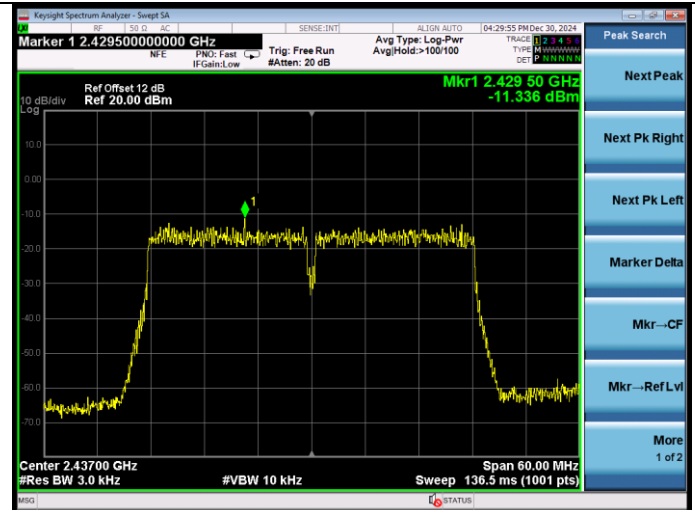
Test Mode: IEEE 802.11n HT40
Test CH1: 2422MHz



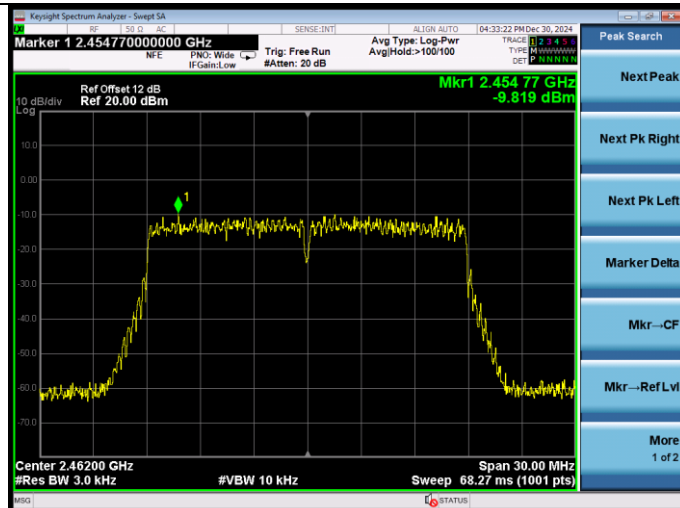
Test CH6: 2437MHz



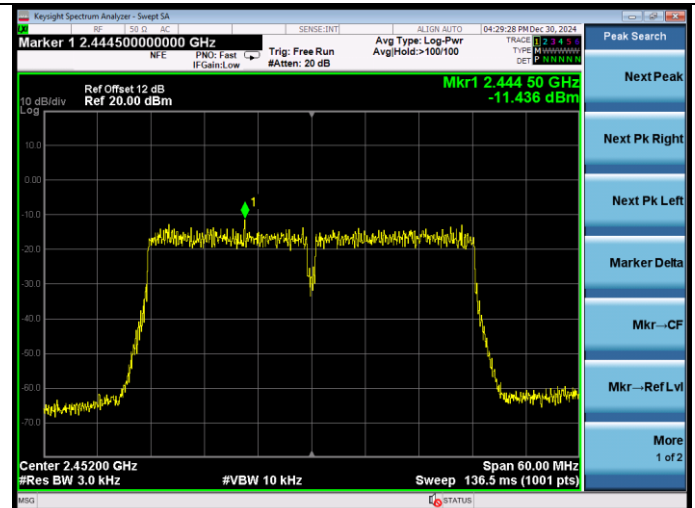
Test CH6: 2437MHz



Test CH11: 2462MHz

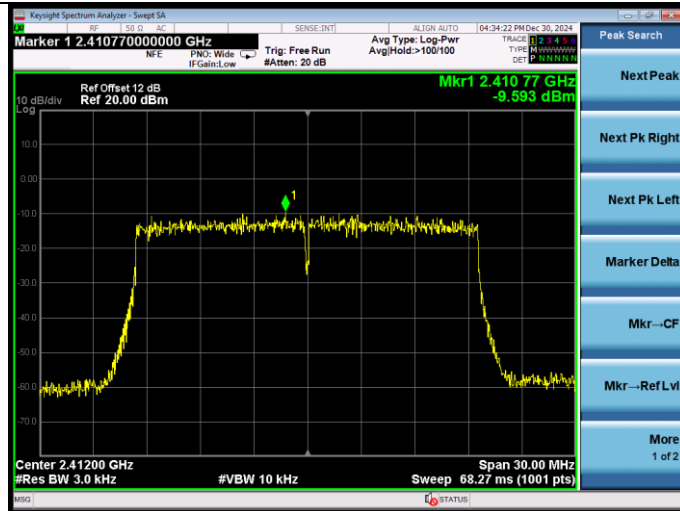


Test CH11: 2452MHz

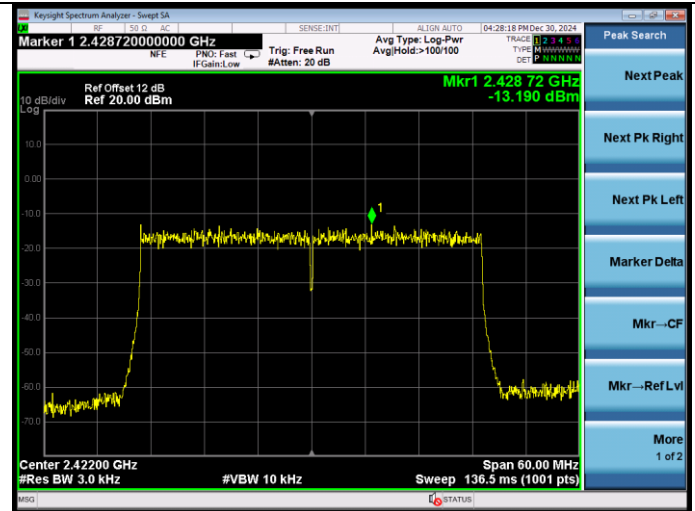


ANT0

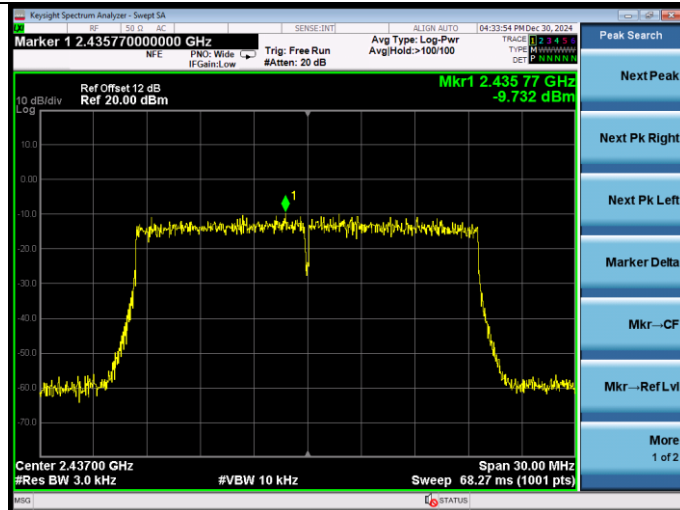
Test Mode: IEEE 802.11ax HE20
Test CH1: 2412MHz



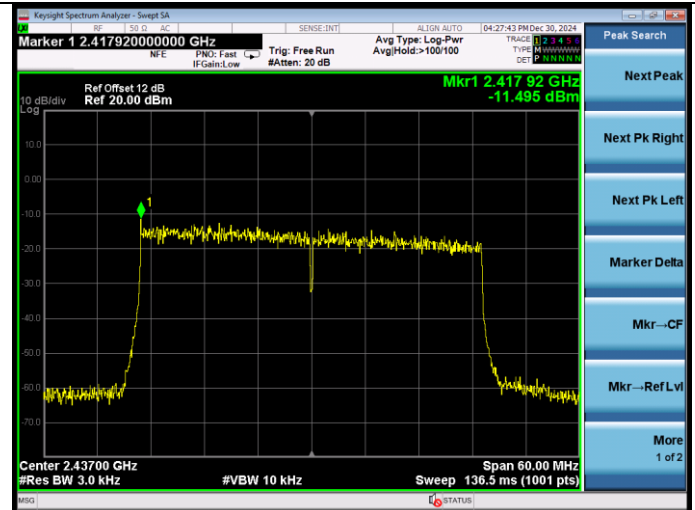
Test Mode: IEEE 802.11ax HE40
Test CH1: 2422MHz



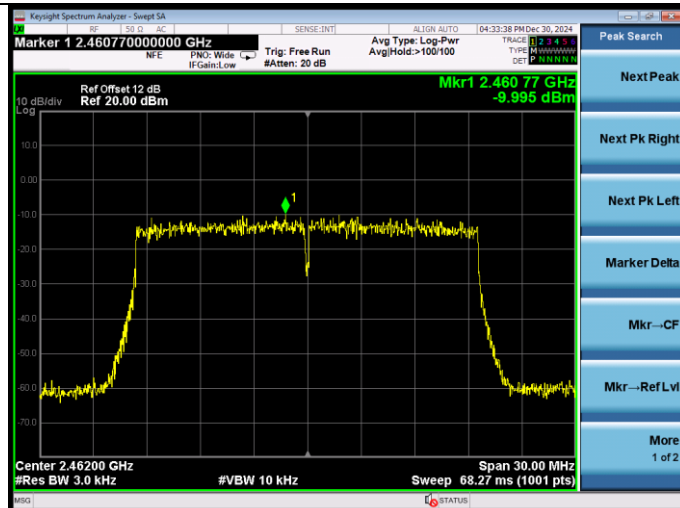
Test CH6: 2437MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH11: 2452MHz

