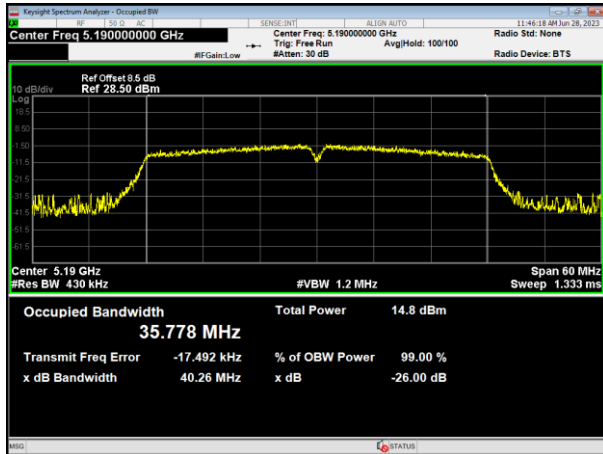
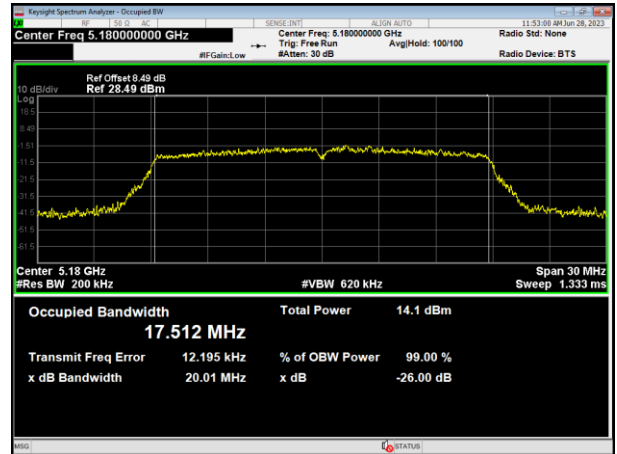


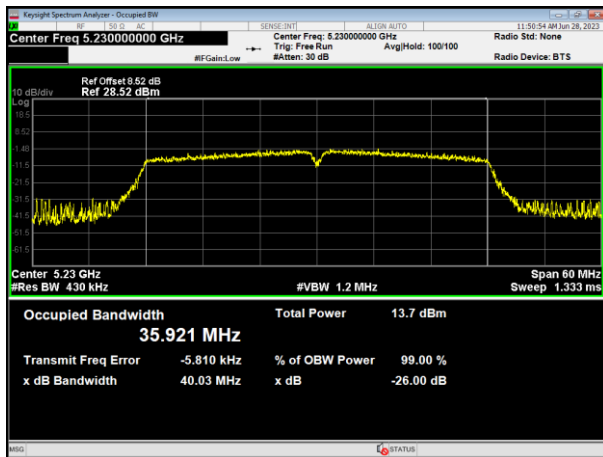
802.11n HT40



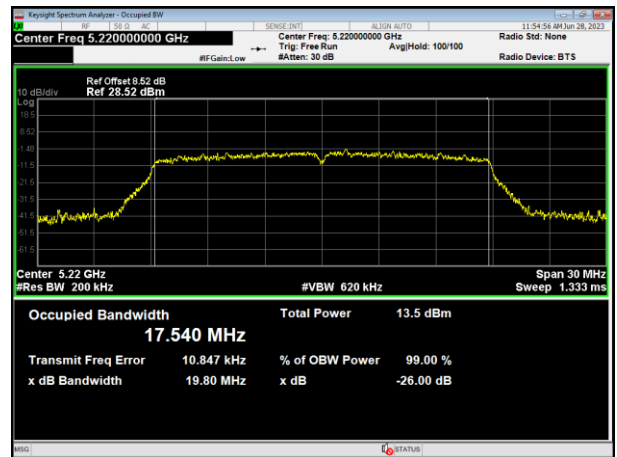
802.11ac HT20



5190MHz



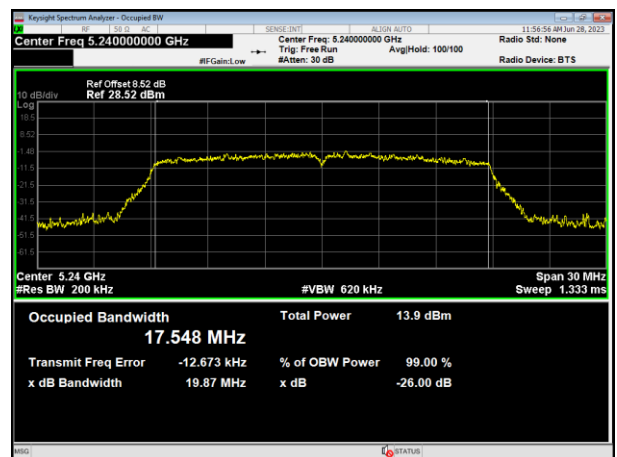
5180MHz



5230MHz

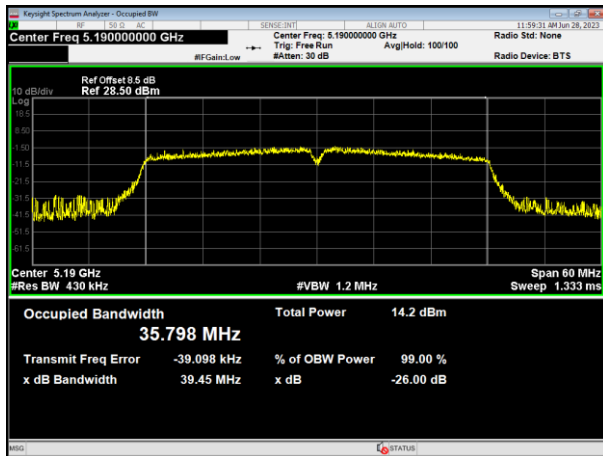


5200MHz

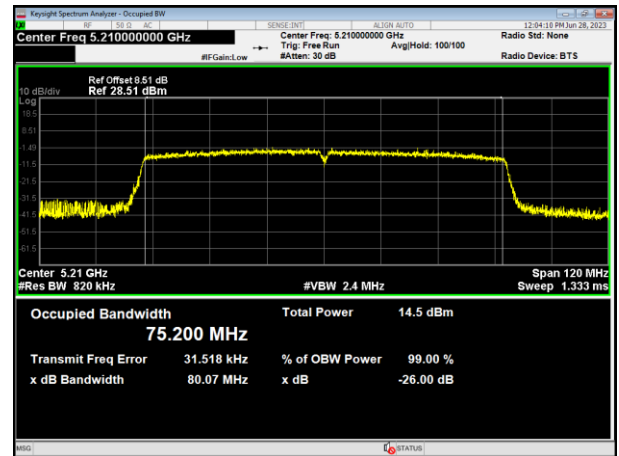


5240MHz

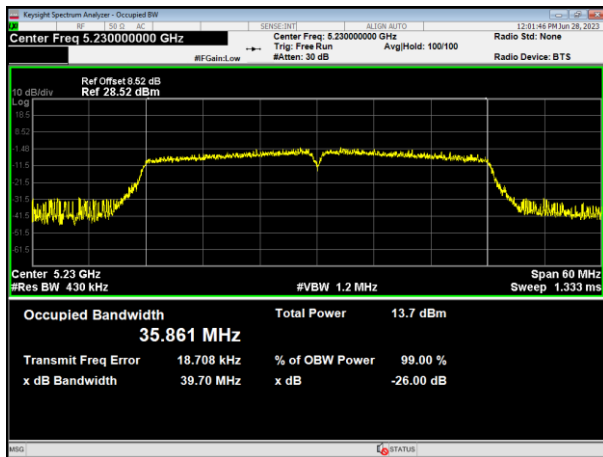
802.11ac HT40



802.11ac HT80



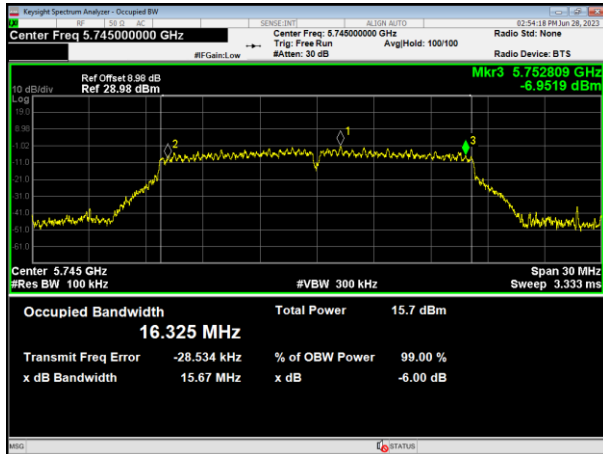
5190MHz



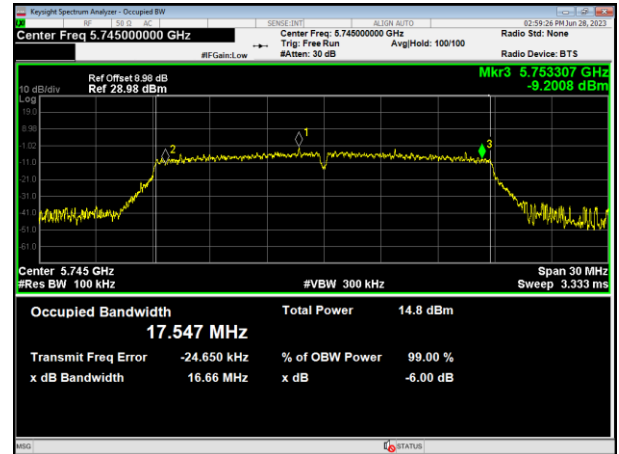
5210MHz

5230MHz

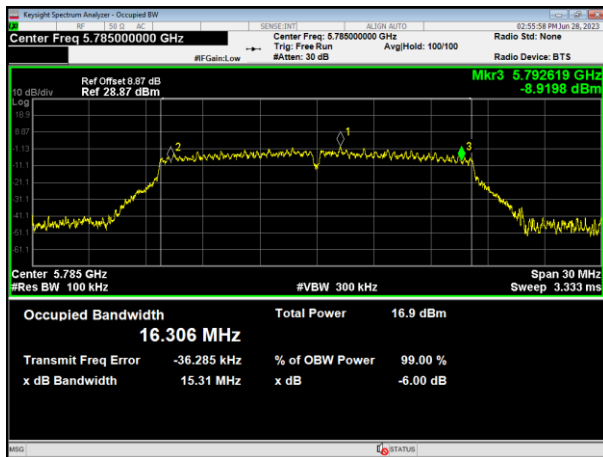
802.11a



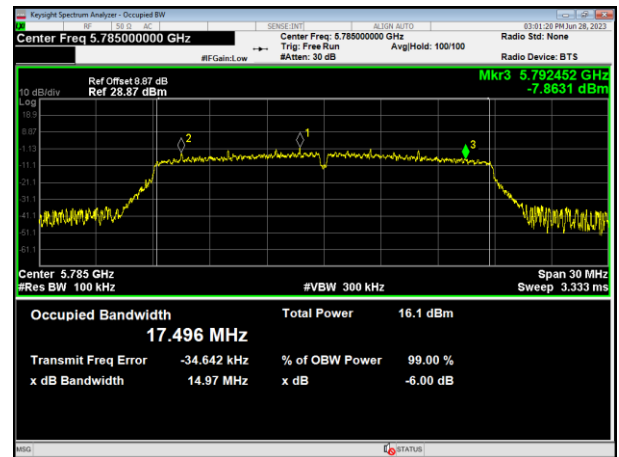
802.11n HT20



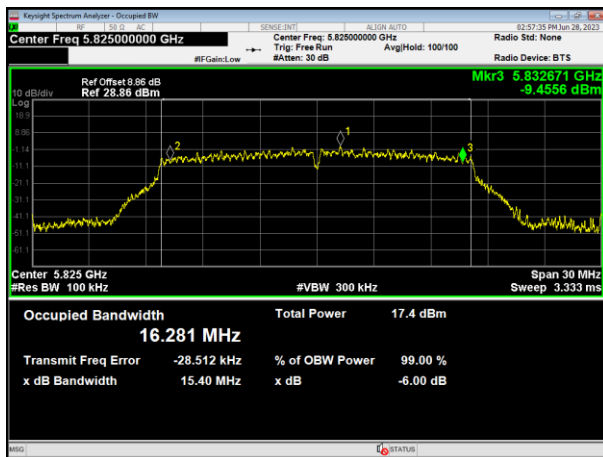
5745MHz



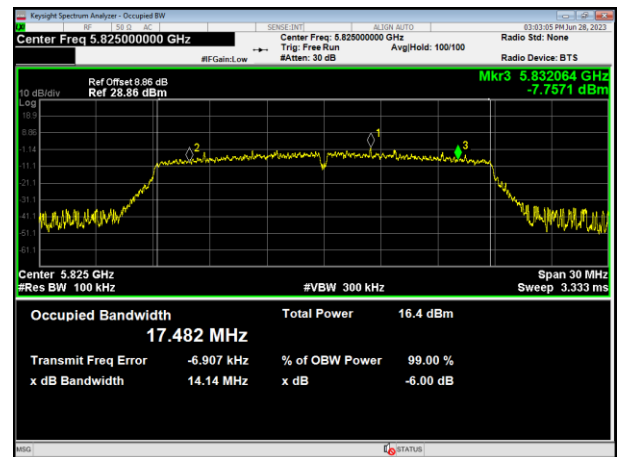
5745MHz



5785MHz



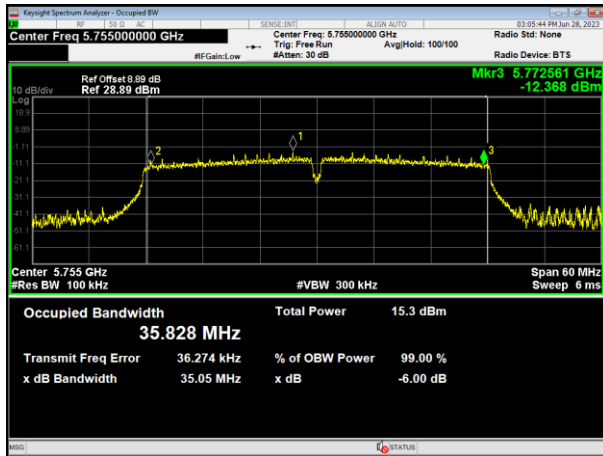
5785MHz



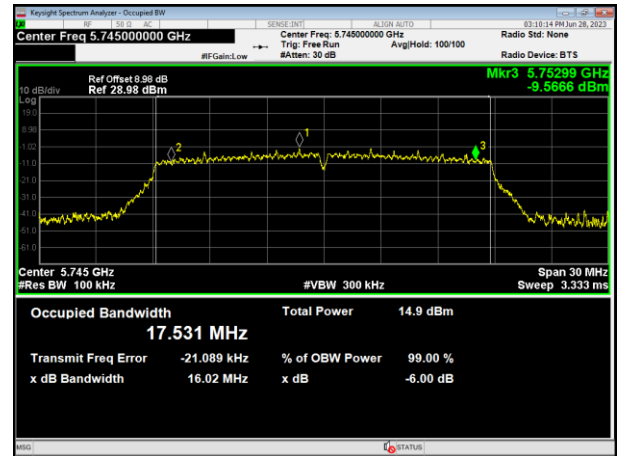
5825MHz

5825MHz

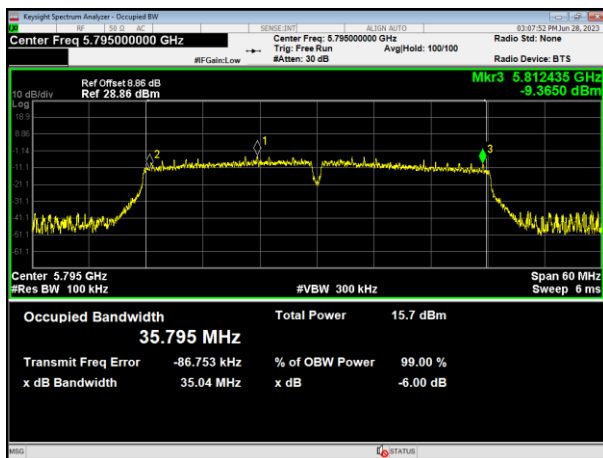
802.11n HT40



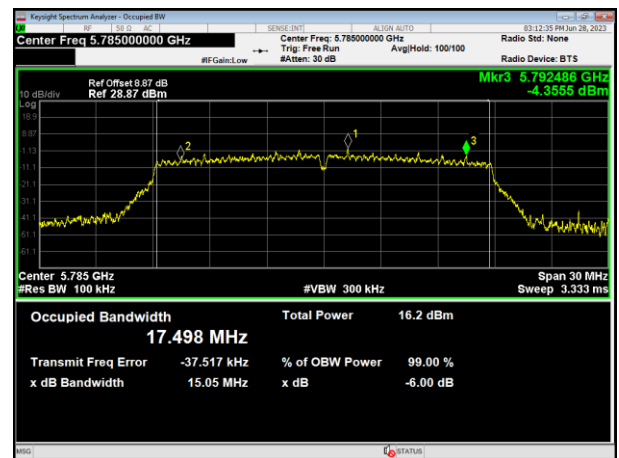
802.11ac HT20



5755MHz



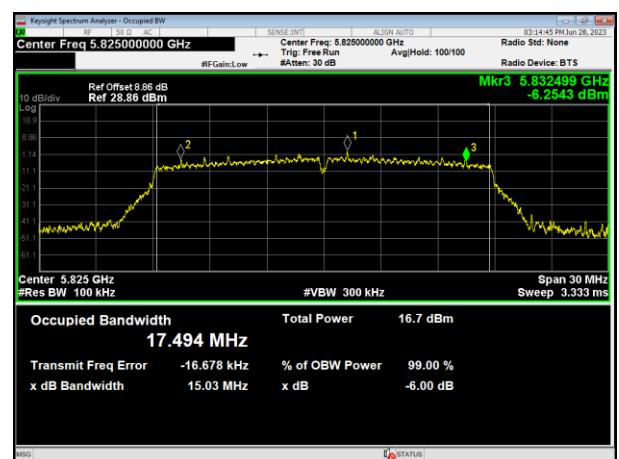
5745MHz



5795MHz

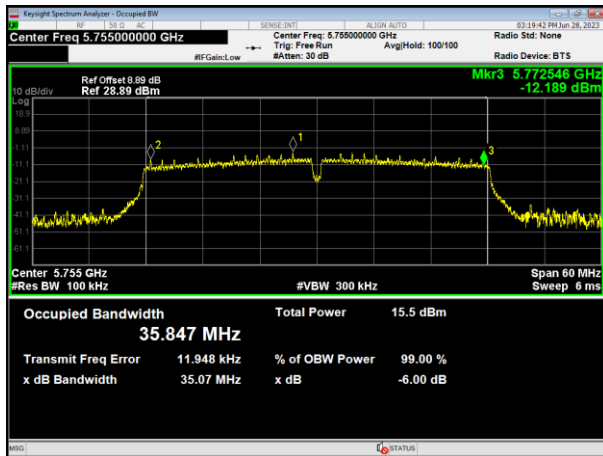


5785MHz

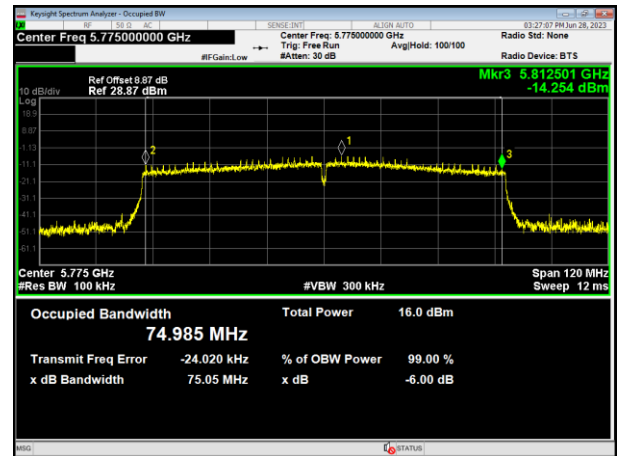


5825MHz

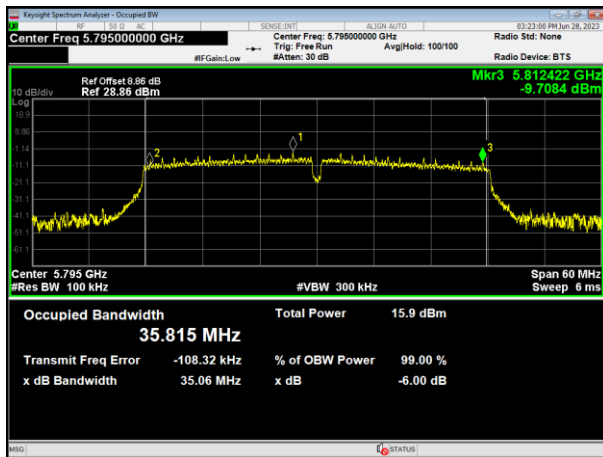
802.11ac HT40



802.11ac HT80



5755MHz



5775MHz



5795MHz

7. DUTY CYCLE TEST SIGNAL

7.1 APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

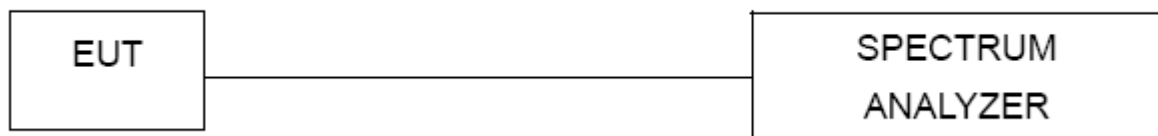
7.1.1 TEST PROCEDURE

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

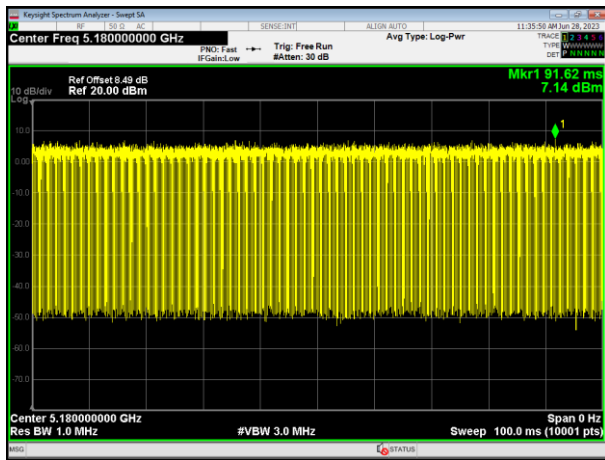
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 TEST RESULTS

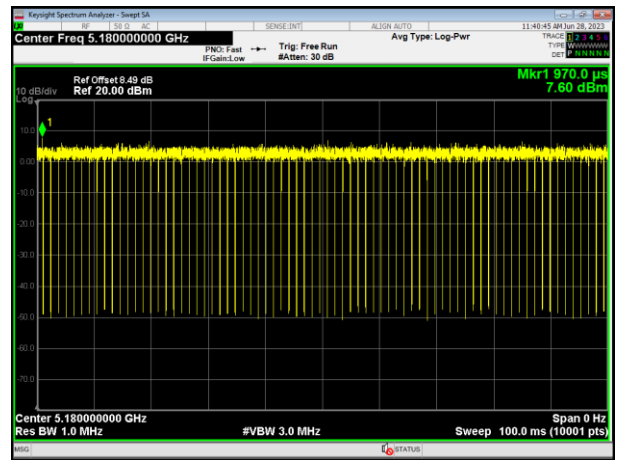
Operation Mode		Duty Cycle(%)	Duty Fator (dB) 10 * log (1/ Duty cycle)
Band 1	802.11a	85.34	0.69
	802.11n(HT20)	97.6	0.11
	802.11n(HT40)	95.31	0.21
	802.11ac(HT20)	95.51	0.2
	802.11ac(HT40)	91.78	0.37
	802.11ac(HT80)	85.8	0.67

Operation Mode		Duty Cycle(%)	Duty Fator (dB) 10 * log (1/ Duty cycle)
Band 4	802.11a	85.31	0.69
	802.11n(HT20)	97.62	0.1
	802.11n(HT40)	95.34	0.21
	802.11ac(HT20)	95.51	0.2
	802.11ac(HT40)	91.74	0.37
	802.11ac(HT80)	91.22	0.4

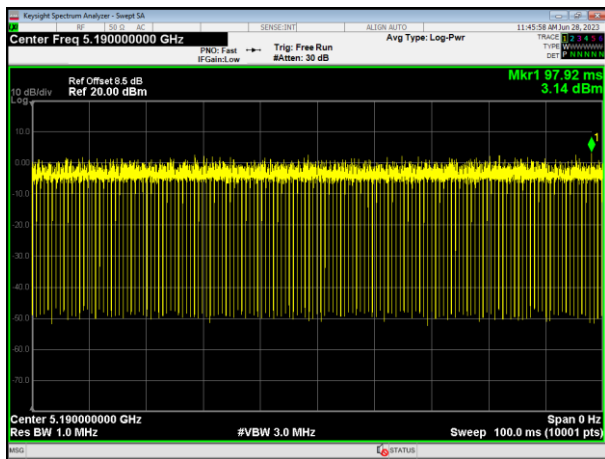
802.11a



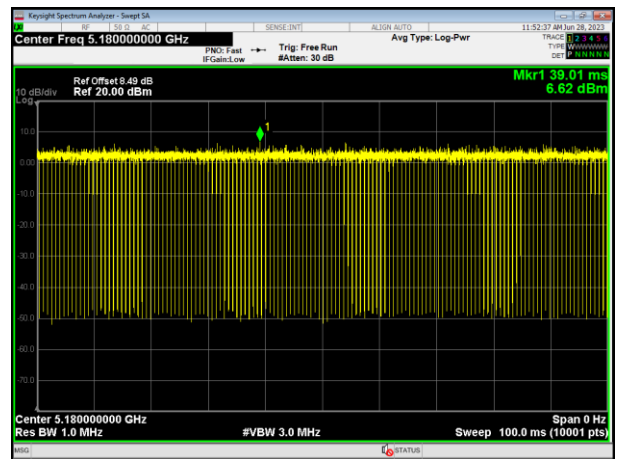
802.11n HT20



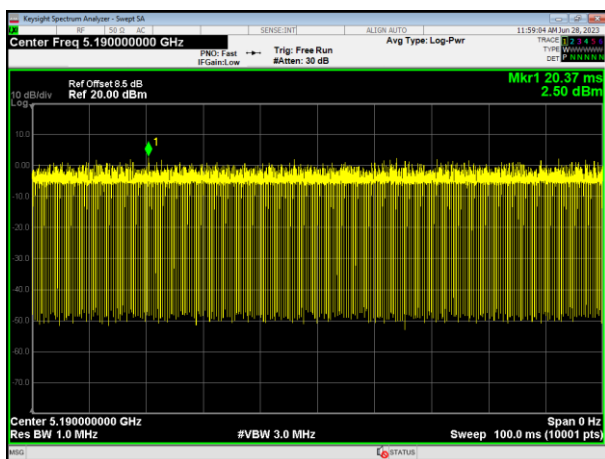
802.11n HT40



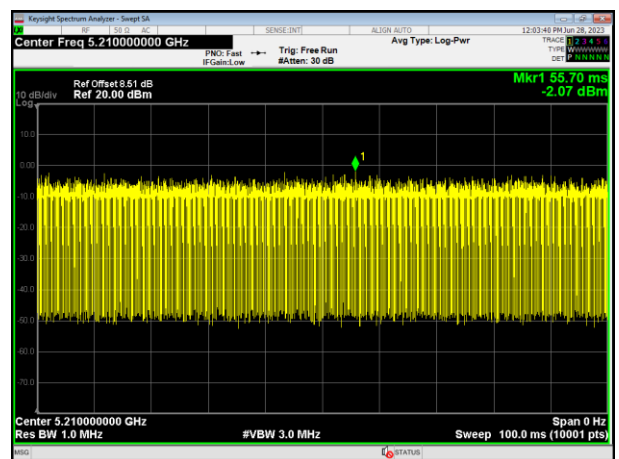
802.11ac HT20



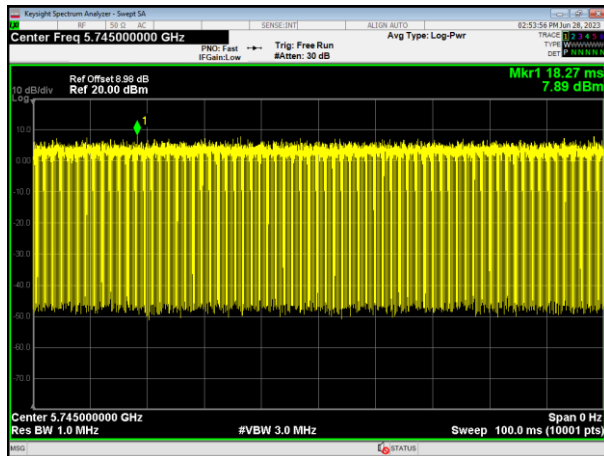
802.11ac HT40



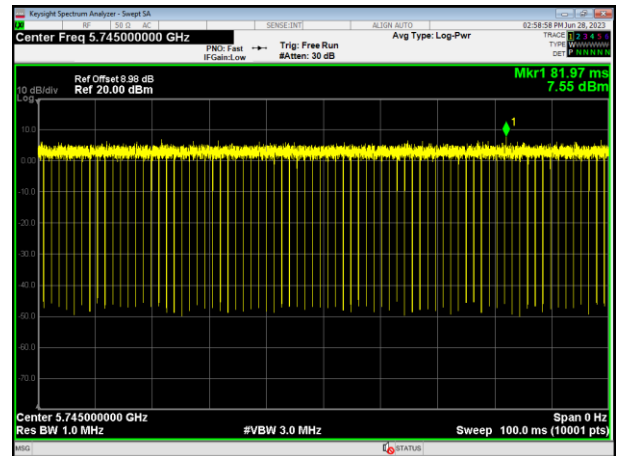
802.11ac HT80



802.11a



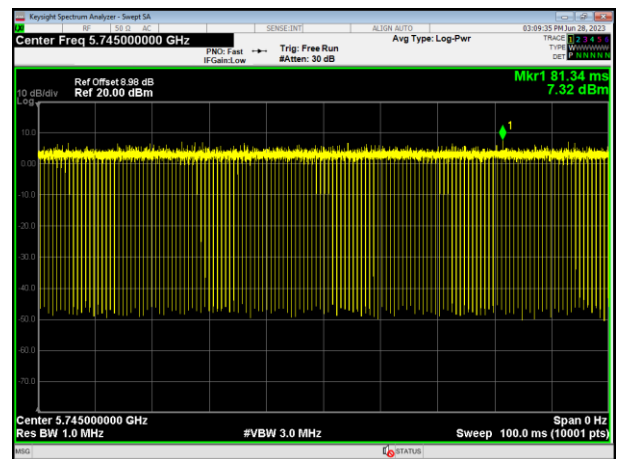
802.11n HT20



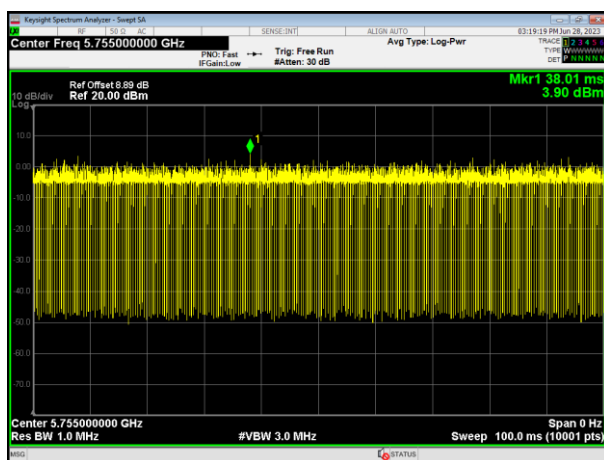
802.11n HT40



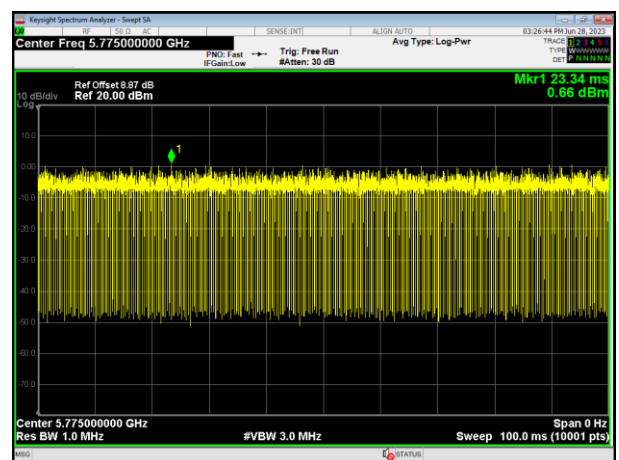
802.11ac HT20



802.11ac HT40



802.11ac HT80



8. FREQUENCY STABILITY

8.1 APPLIED PROCEDURES / 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.

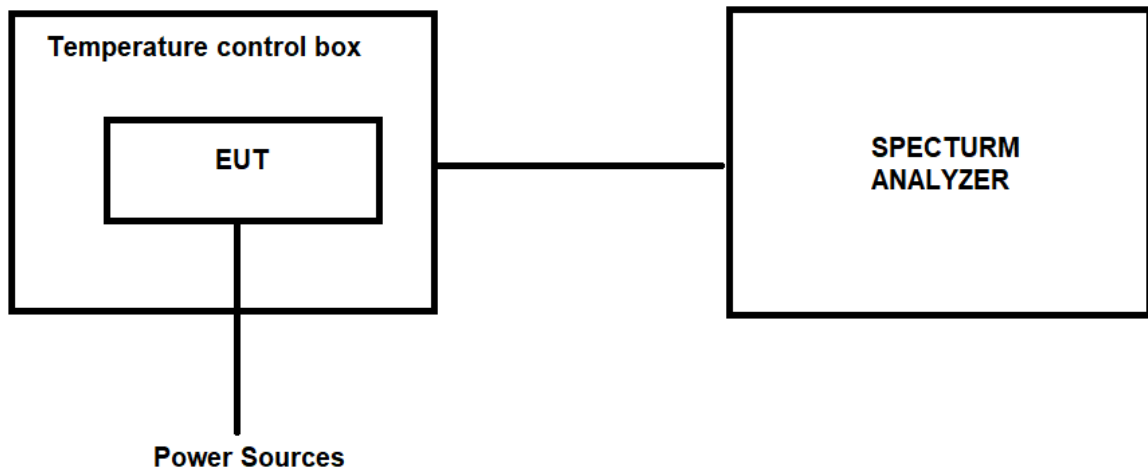
8.1.1 TEST PROCEDURE

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.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 TEST RESULTS

Test Voltage	Test Temp.	Measured Frequency	Spectrum Frequency (MHz)			Δ Frequency (MHz)		
		(MHz)	802.11a	802.11n HT20	802.11ac HT20	802.11a	802.11n HT20	802.11ac HT20
132V	-20°C	5180	5180.0333	5180.0354	5180.0363	-0.0333	-0.0354	-0.0363
		5220	5220.0348	5220.0366	5220.0364	-0.0348	-0.0366	-0.0364
		5240	5240.0236	5240.0214	5240.0255	-0.0236	-0.0214	-0.0255
		5745	5745.0367	5745.0348	5745.0316	-0.0367	-0.0348	-0.0316
		5785	5785.0385	5785.0335	5785.0324	-0.0385	-0.0335	-0.0324
		5825	5825.0365	5825.0363	5825.0341	-0.0365	-0.0363	-0.0341
108V	-20°C	5180	5180.0276	5180.0225	5180.0232	-0.0276	-0.0225	-0.0232
		5220	5220.0342	5220.0386	5220.0358	-0.0342	-0.0386	-0.0358
		5240	5240.0246	5240.0268	5240.0226	-0.0246	-0.0268	-0.0226
		5745	5745.0264	5745.0224	5745.0298	-0.0264	-0.0224	-0.0298
		5785	5785.0327	5785.0386	5785.0324	-0.0327	-0.0386	-0.0324
		5825	5825.0414	5825.0425	5825.0413	-0.0414	-0.0425	-0.0413
120V	25°C	5180	5180.0523	5180.0515	5180.0535	-0.0523	-0.0515	-0.0535
		5220	5220.0268	5220.0246	5220.0246	-0.0268	-0.0246	-0.0246
		5240	5240.0354	5240.0314	5240.0367	-0.0354	-0.0314	-0.0367
		5745	5745.0336	5745.0329	5745.0344	-0.0336	-0.0329	-0.0344
		5785	5785.0487	5785.0415	5785.0464	-0.0487	-0.0415	-0.0464
		5825	5825.0244	5825.0276	5825.0228	-0.0244	-0.0276	-0.0228
132V	50°C	5180	5180.0315	5180.0364	5180.0364	-0.0315	-0.0364	-0.0364
		5220	5220.0235	5220.0243	5220.0256	-0.0235	-0.0243	-0.0256
		5240	5240.0366	5240.0356	5240.0368	-0.0366	-0.0356	-0.0368
		5745	5745.0678	5745.0631	5745.0675	-0.0678	-0.0631	-0.0675
		5785	5785.0464	5785.0422	5785.0466	-0.0464	-0.0422	-0.0466
		5825	5825.0656	5825.0627	5825.0665	-0.0656	-0.0627	-0.0665
108V	50°C	5180	5180.0367	5180.0323	5180.0343	-0.0367	-0.0323	-0.0343
		5220	5220.0245	5220.0265	5220.0265	-0.0245	-0.0265	-0.0265
		5240	5240.0316	5240.0358	5240.0316	-0.0316	-0.0358	-0.0316
		5745	5745.0467	5745.0433	5745.0458	-0.0467	-0.0433	-0.0458
		5785	5785.0254	5785.0254	5785.0264	-0.0254	-0.0254	-0.0264
		5825	5825.0721	5825.0739	5825.0742	-0.0721	-0.0739	-0.0742

Test Voltage	Test Temp.	Measured Frequency (MHz)	Spectrum Frequency (MHz)		Δ Frequency (MHz)	
			802.11n HT40	802.11ac HT40	802.11n HT40	802.11ac HT40
132V	-20℃	5190	5190.0266	5190.0236	-0.0266	-0.0236
		5230	5230.0358	5230.0364	-0.0358	-0.0364
		5755	5755.0545	5755.0553	-0.0545	-0.0553
		5795	5795.0646	5795.0615	-0.0646	-0.0615
108V		5190	5190.0258	5190.0232	-0.0258	-0.0232
		5230	5230.0365	5230.0344	-0.0365	-0.0344
		5755	5755.0244	5755.0666	-0.0244	-0.0666
		5795	5795.0445	5795.0485	-0.0445	-0.0485
120V	25℃	5190	5190.0277	5190.0254	-0.0277	-0.0254
		5230	5230.0633	5230.0652	-0.0633	-0.0652
		5755	5755.0254	5755.0234	-0.0254	-0.0234
		5795	5795.0564	5795.0538	-0.0564	-0.0538
132V	50℃	5190	5190.0655	5190.0644	-0.0655	-0.0644
		5230	5230.0566	5230.0553	-0.0566	-0.0553
		5755	5755.0465	5755.0435	-0.0465	-0.0435
		5795	5795.0334	5795.0326	-0.0334	-0.0326
108V	50℃	5190	5190.0568	5190.0544	-0.0568	-0.0544
		5230	5230.0336	5230.0334	-0.0336	-0.0334
		5755	5755.0324	5755.0334	-0.0324	-0.0334
		5795	5795.0464	5795.0446	-0.0464	-0.0446

Test Voltage	Test Temp.	Measured Frequency (MHz)	Spectrum Frequency (MHz)	Δ Frequency (MHz)
			802.11ac HT80	802.11ac HT80
132V	-20℃	5210	5210.0136	-0.0136
		5775	5775.0168	-0.0168
108V		5210	5210.0244	-0.0244
		5775	5775.0323	-0.0323
120V	25℃	5210	5210.0475	-0.0475
		5775	5775.0364	-0.0364
132V	50℃	5210	5210.0345	-0.0345
		5775	5775.0266	-0.0266
108V	50℃	5210	5210.0337	-0.0337
		5775	5775.0544	-0.0544

9. TRANSMISSION IN THE ABSENCE OF DATA

9.1 STANDARD REQUIREMENT

According to §15.407(c)

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 signaling 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.

9.2 TEST RESULT

No non-compliance noted:
Refer to the theory of operation.

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

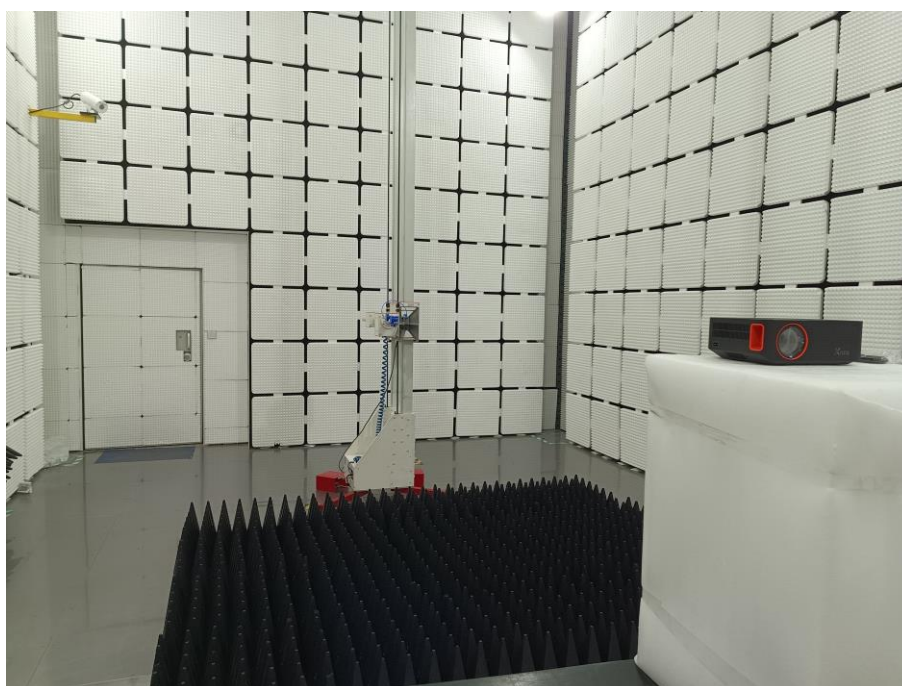
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is Internal Antenna, It comply with the standard requirement.

11. TEST SEUUP PHOTO

Radiated Measurement Photos



Conducted Measurement Photos



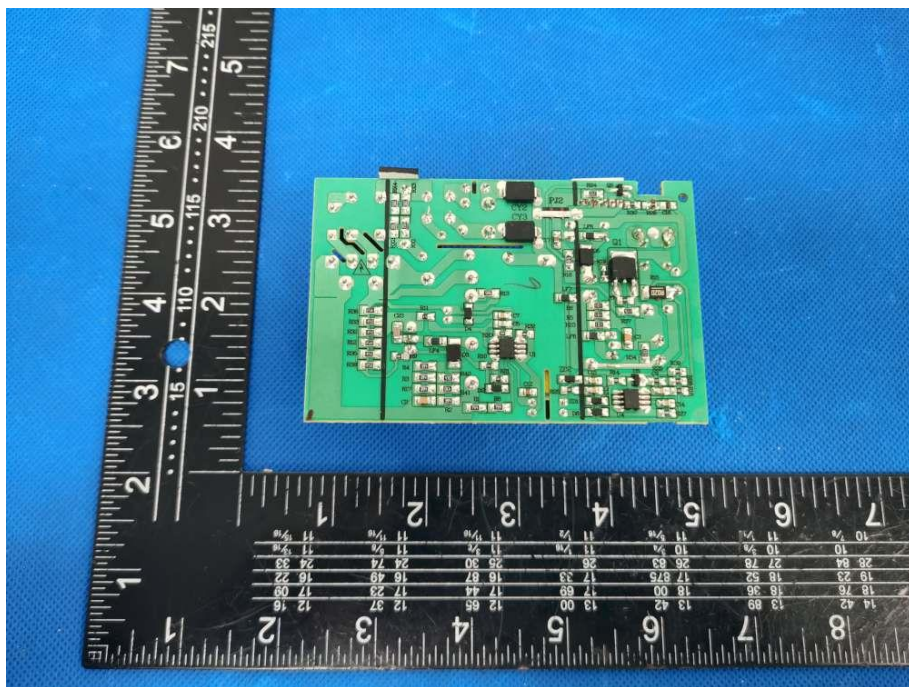
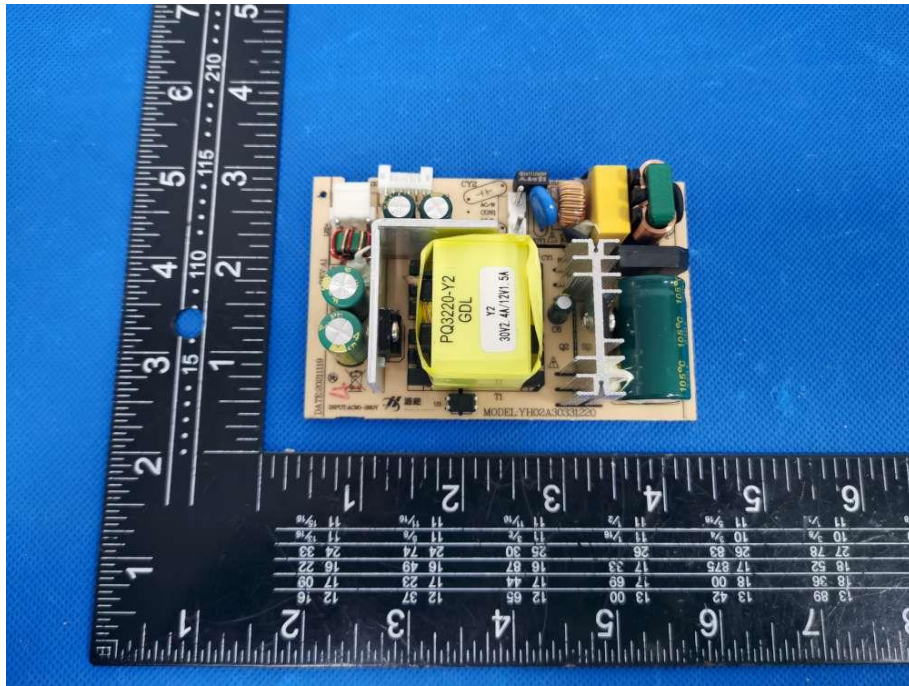
12. EUT PHOTO

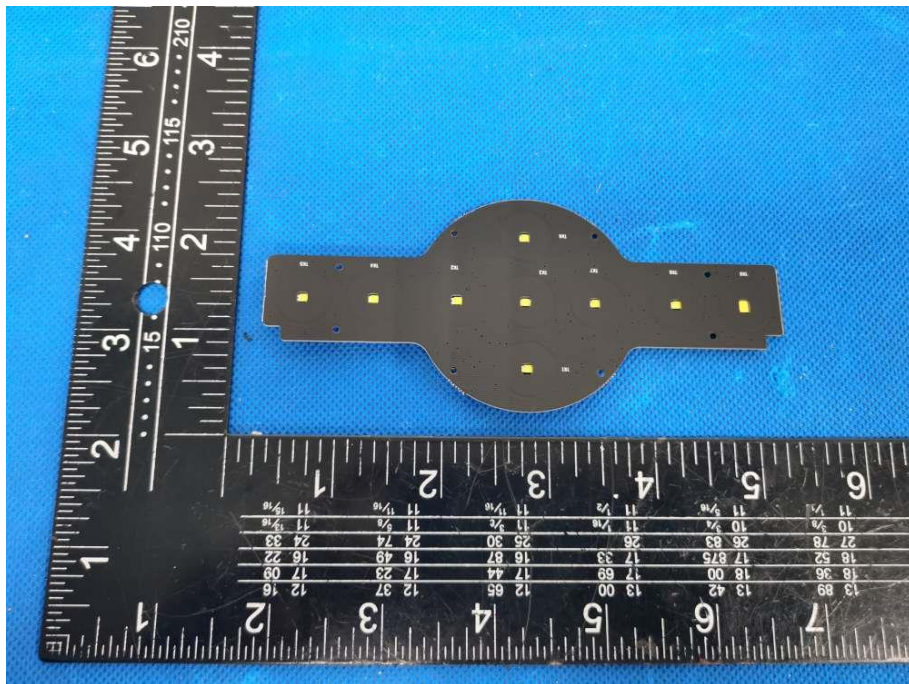
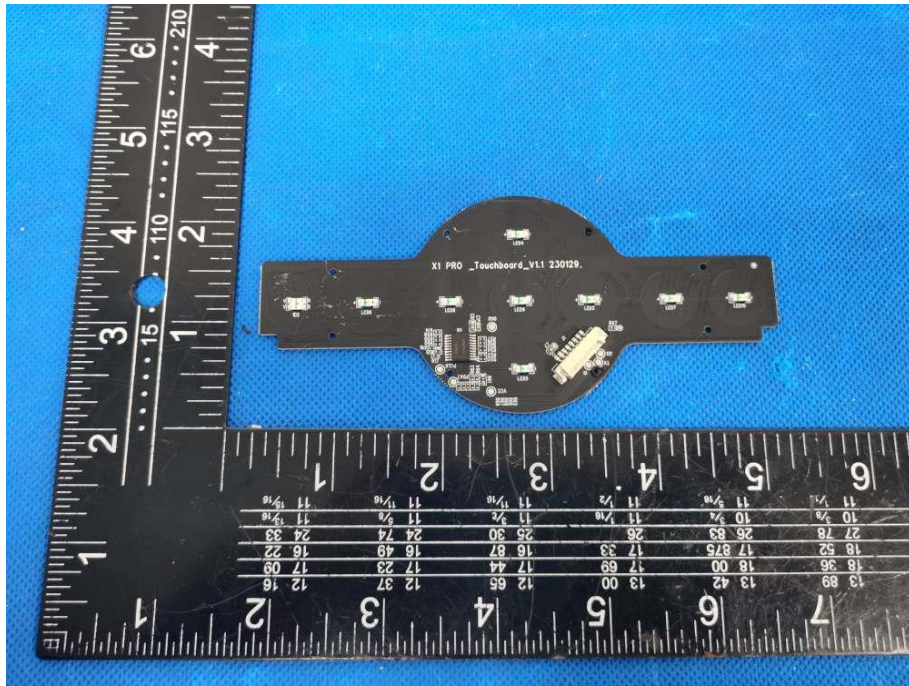


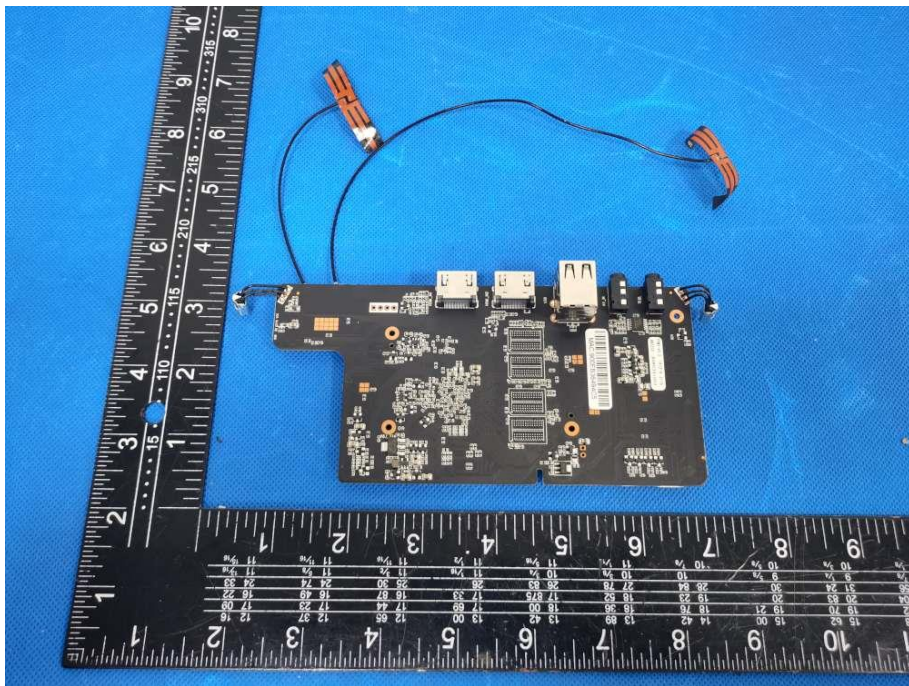
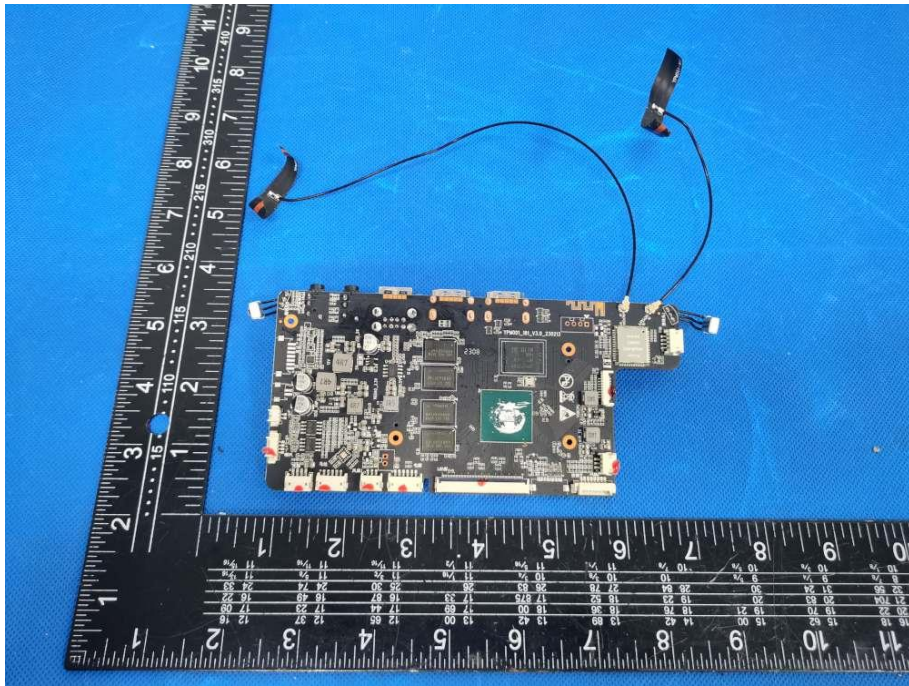


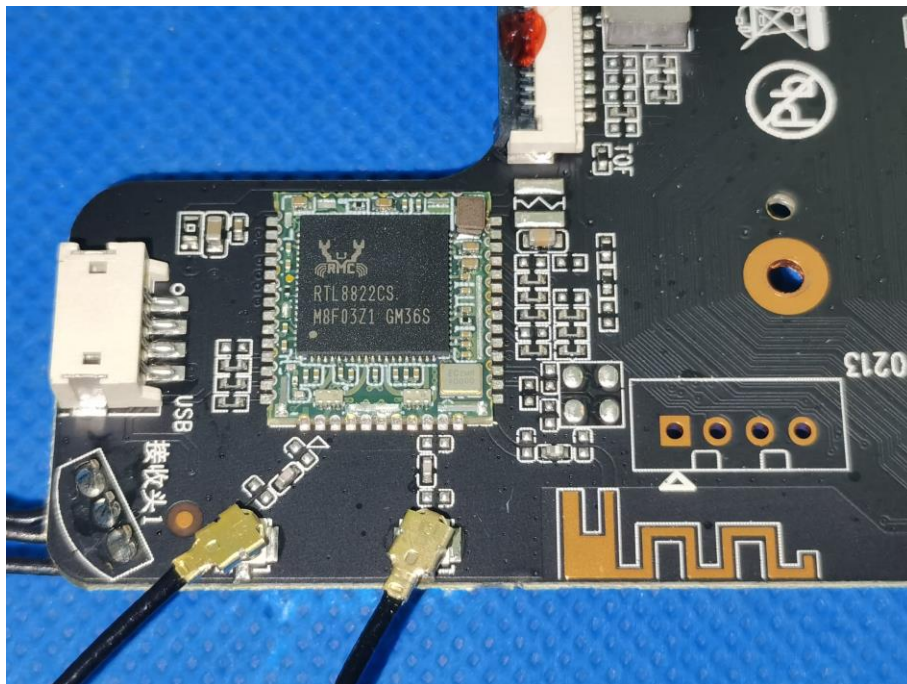
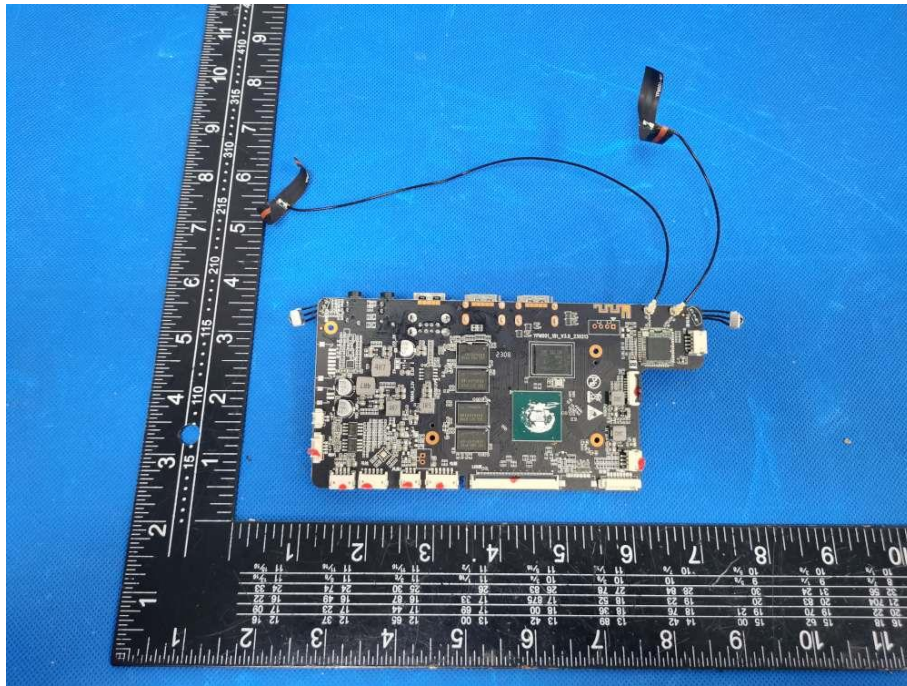












***** END OF REPORT *****