



## 5. POWER SPECTRAL DENSITY TEST

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW $\geq$ 3kHz
VB	VBW $\geq$ 3RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

#### 5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP

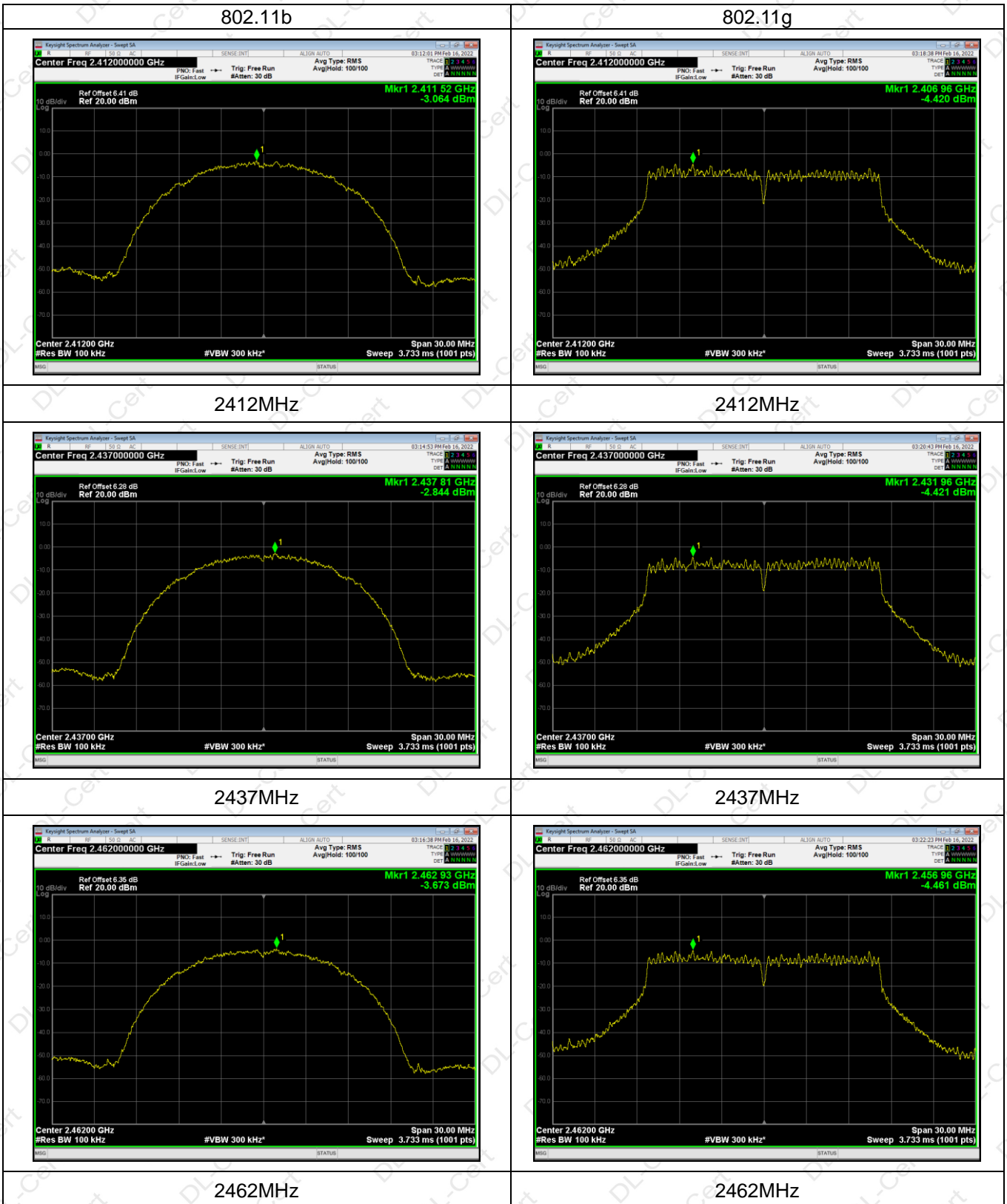


#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

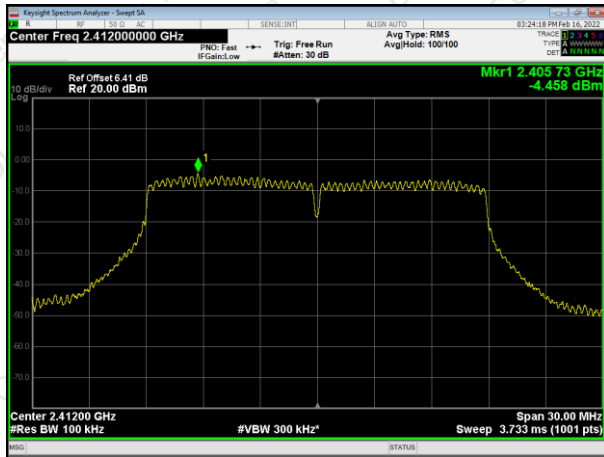
**5.1.5 TEST RESULTS**

Mode	Test Channel	Reading Level (dBm)	Limit (dBm)	Result
802.11b	Low	-3.064	8	PASS
	Moddle	-2.844	8	PASS
	High	-3.673	8	PASS
802.11g	Low	-4.42	8	PASS
	Moddle	-4.421	8	PASS
	High	-4.461	8	PASS
802.11n20	Low	-4.458	8	PASS
	Moddle	-3.564	8	PASS
	High	-5.859	8	PASS
802.11n40	Low	-8.594	8	PASS
	Moddle	-7.302	8	PASS
	High	-8.284	8	PASS

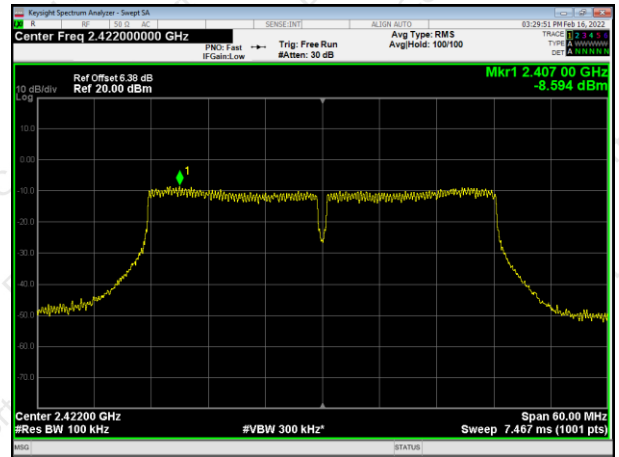




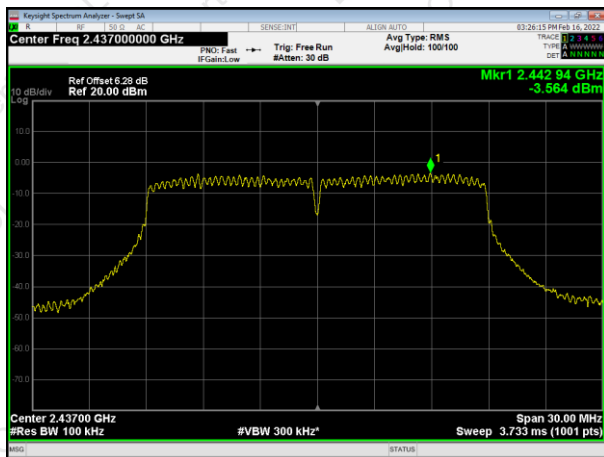
802.11n HT20



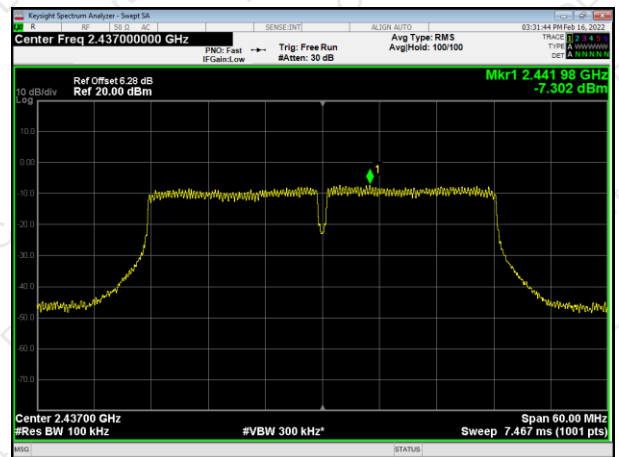
802.11n HT40



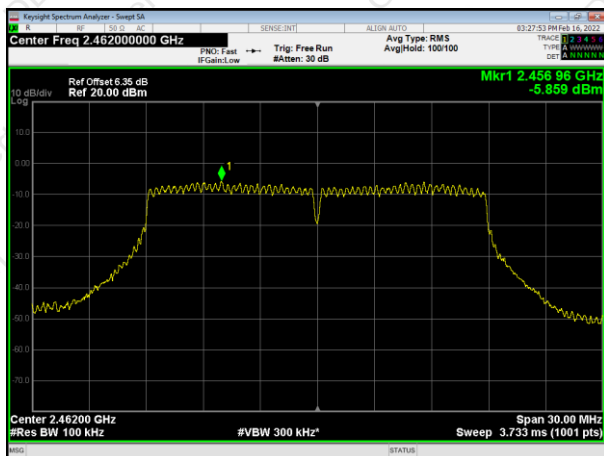
2412MHz



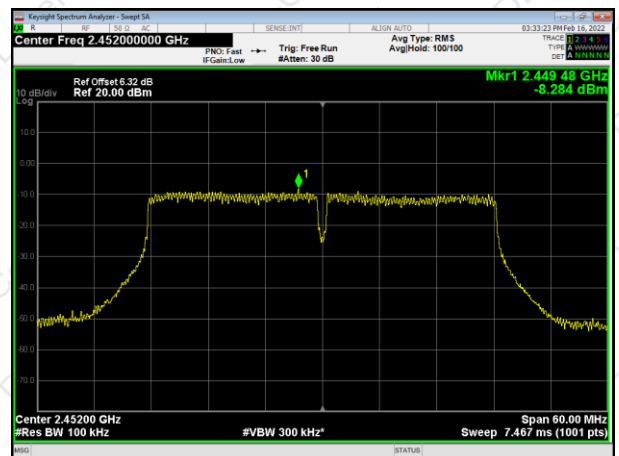
2422MHz



2437MHz



2437MHz



2462MHz



2452MHz





## 6. 6DB BANDWIDTH TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

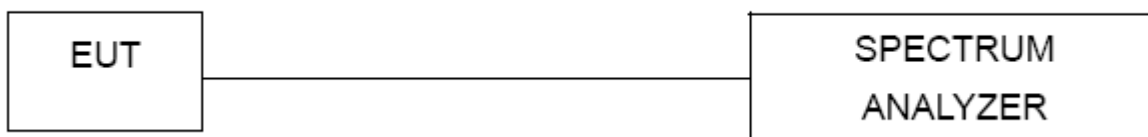
#### 6.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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 20 dB relative to the maximum level measured in the fundamental emission.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 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.

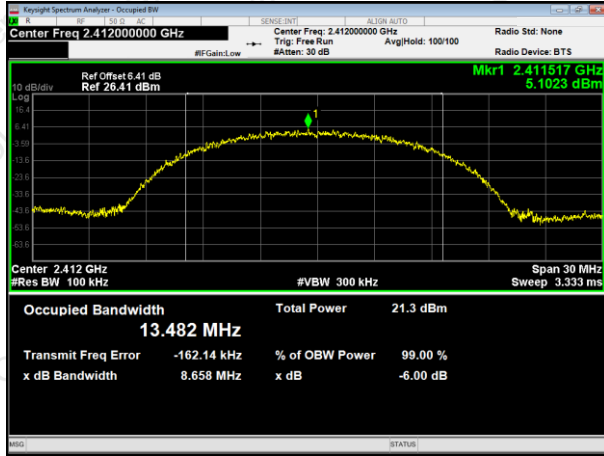
**6.1.5 TEST RESULTS**

	Test Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	Low	8.66	0.5	Pass
	Middle	9.64	0.5	Pass
	High	9.027	0.5	Pass
802.11g	Low	16.37	0.5	Pass
	Middle	16.13	0.5	Pass
	High	16.40	0.5	Pass
802.11n HT20	Low	16.52	0.5	Pass
	Middle	17.29	0.5	Pass
	High	17.10	0.5	Pass
802.11n HT40	Low	36.09	0.5	Pass
	Middle	35.45	0.5	Pass
	High	35.44	0.5	Pass

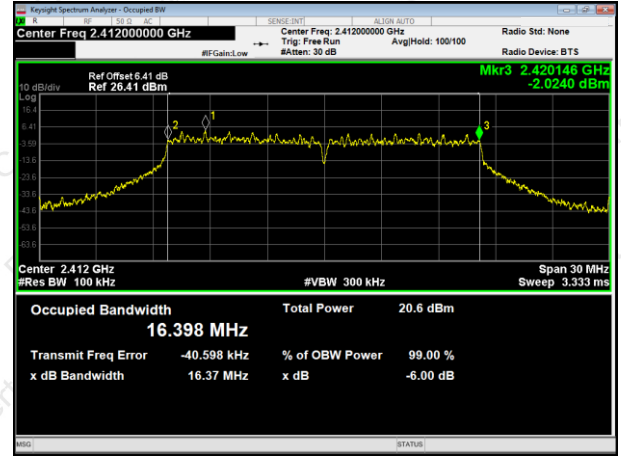




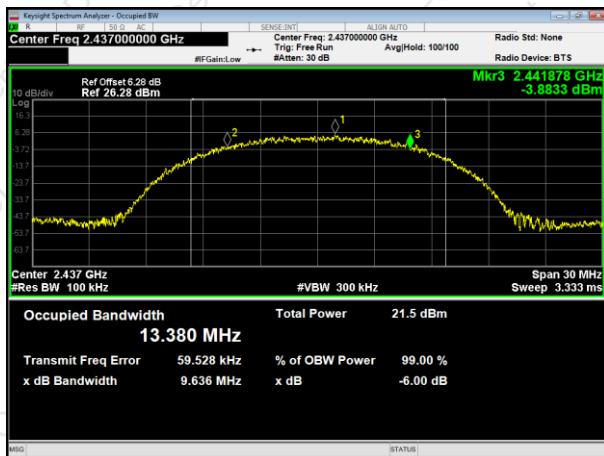
802.11b



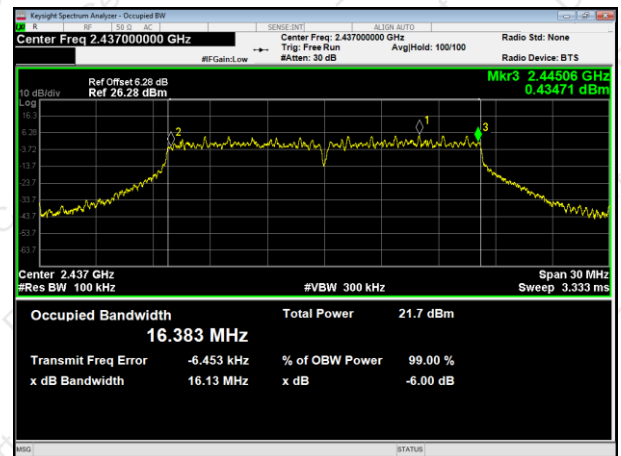
802.11g



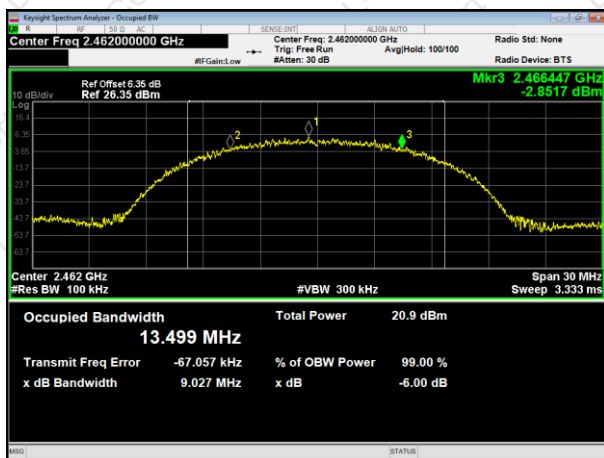
2412MHz



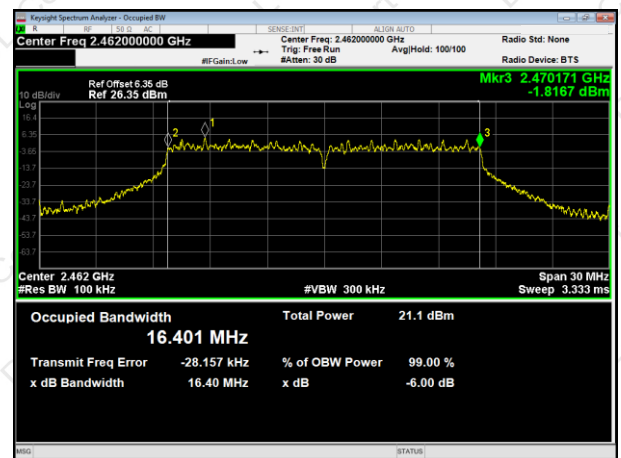
2412MHz



2437MHz



2437MHz



2462MHz

2462MHz





## 7. ANTENNA REQUIREMENT

### 7.1 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.

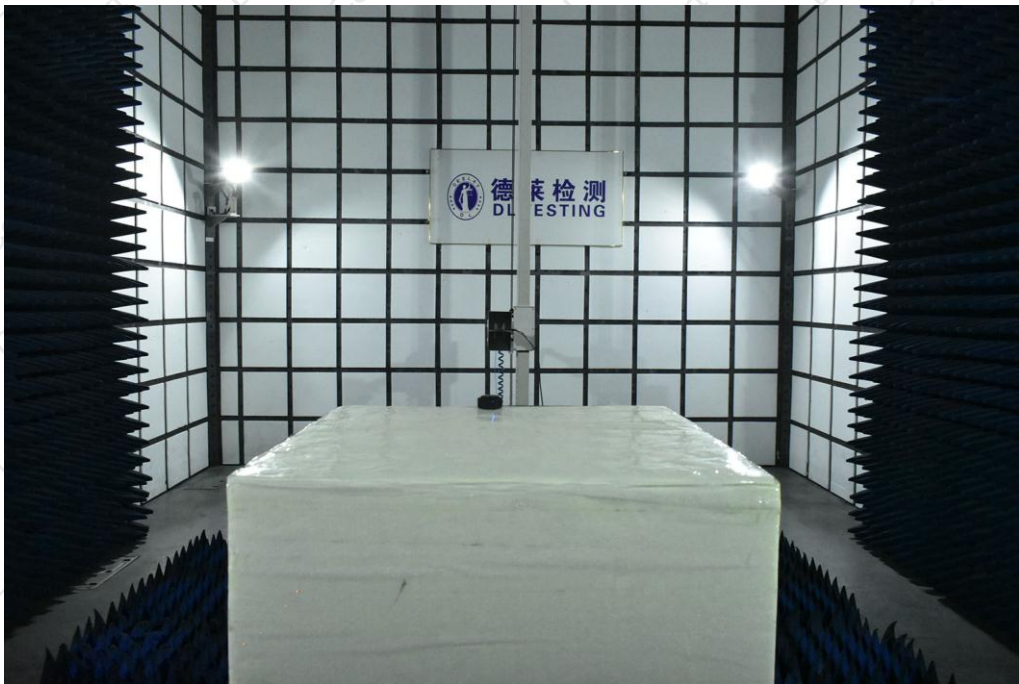
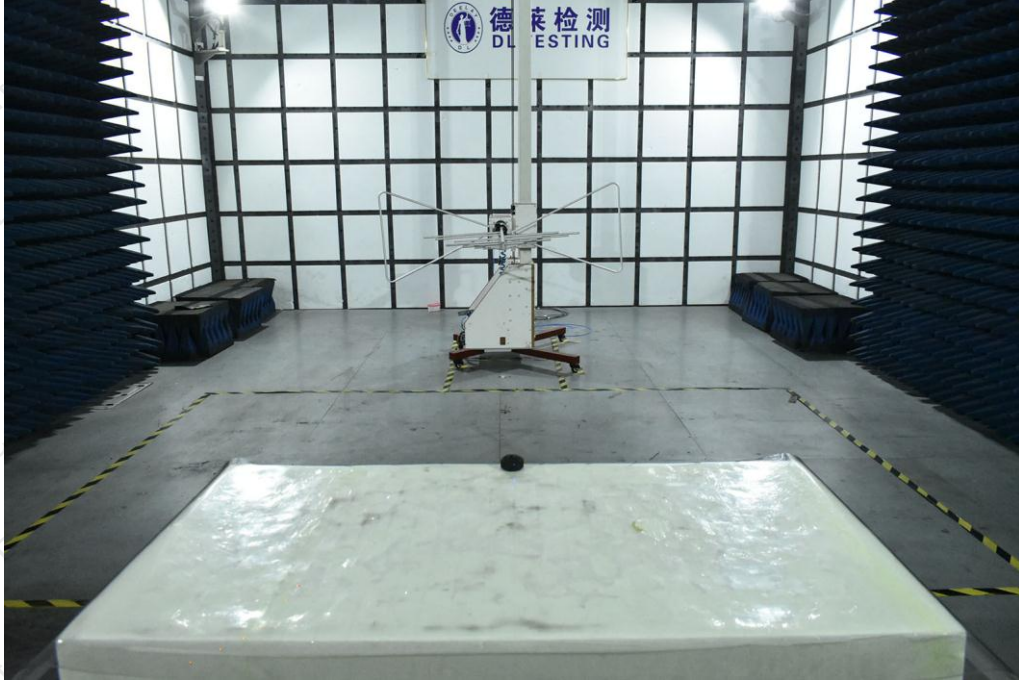
### 7.2 EUT ANTENNA

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



## 8. TEST SEUUP PHOTO

### Radiated Measurement Photos



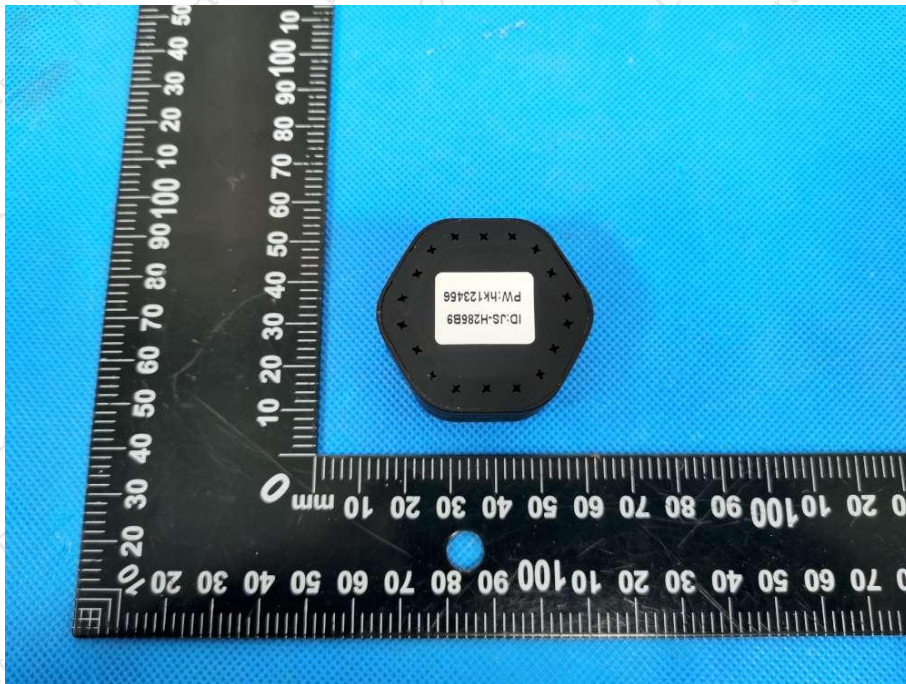


**Conducted Measurement Photos**



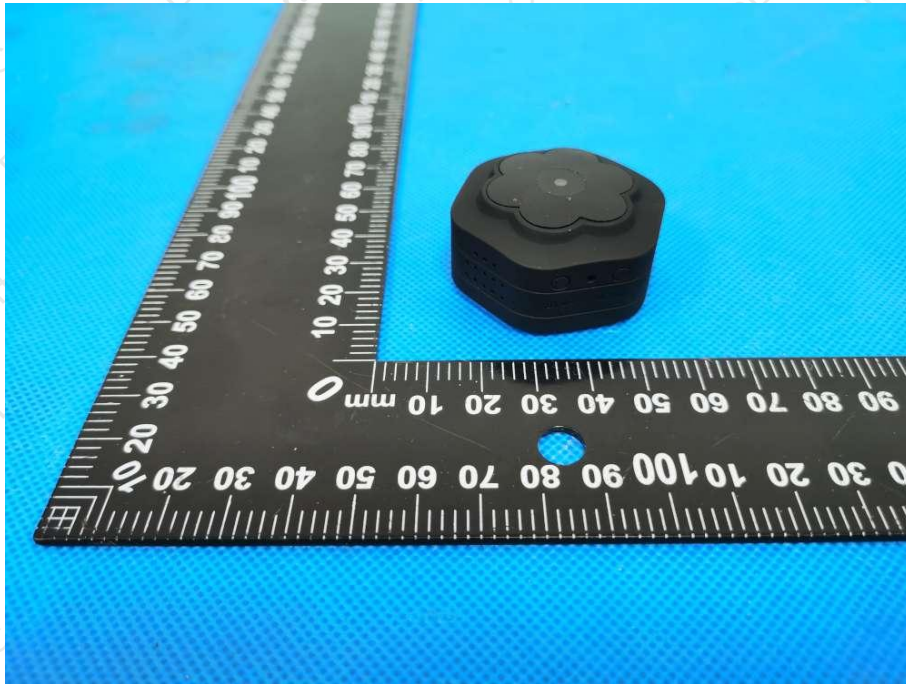
### 9. EUT PHOTO

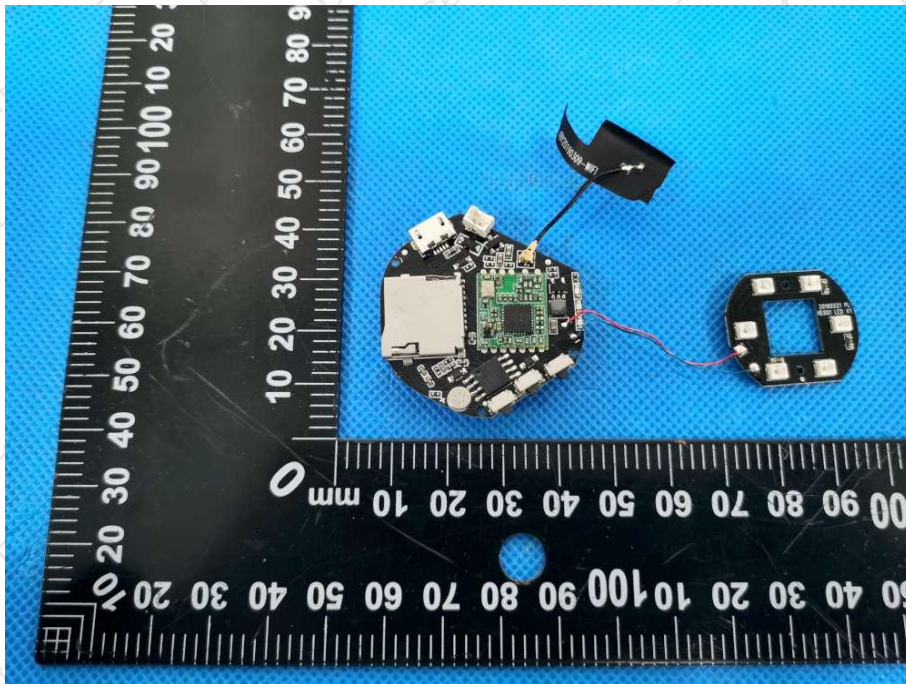
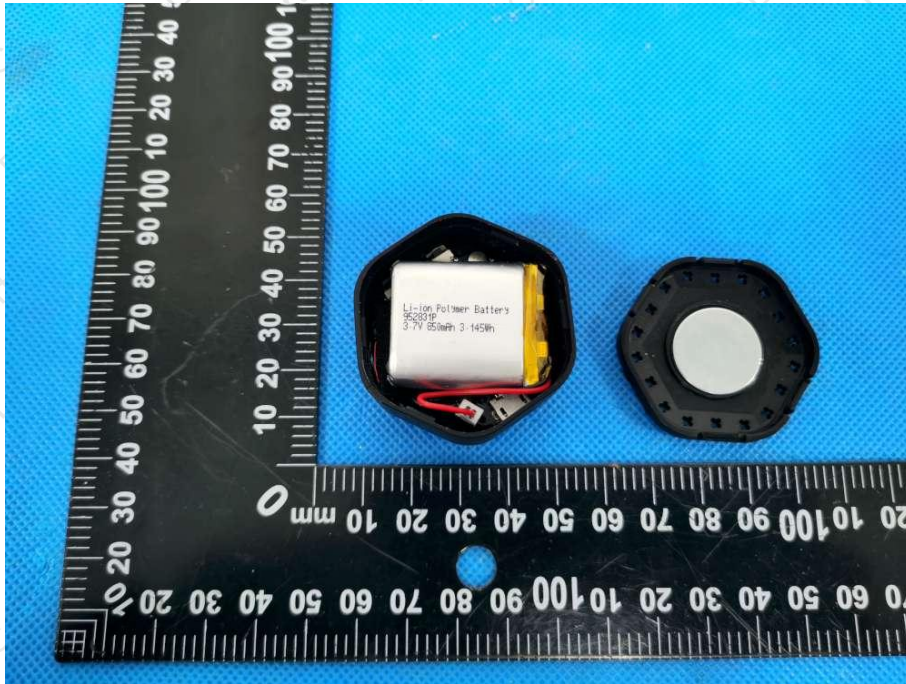


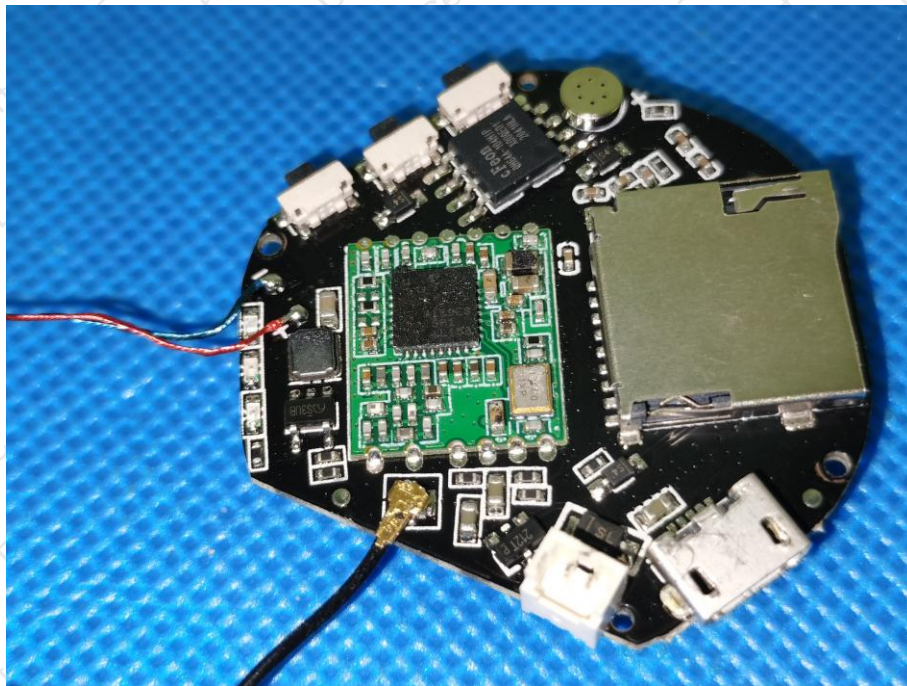
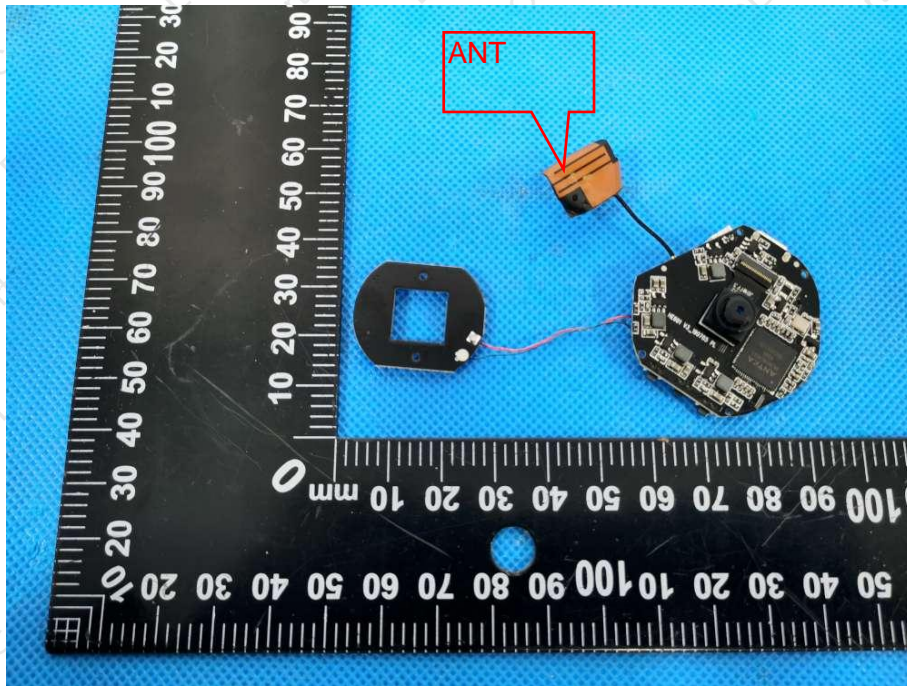


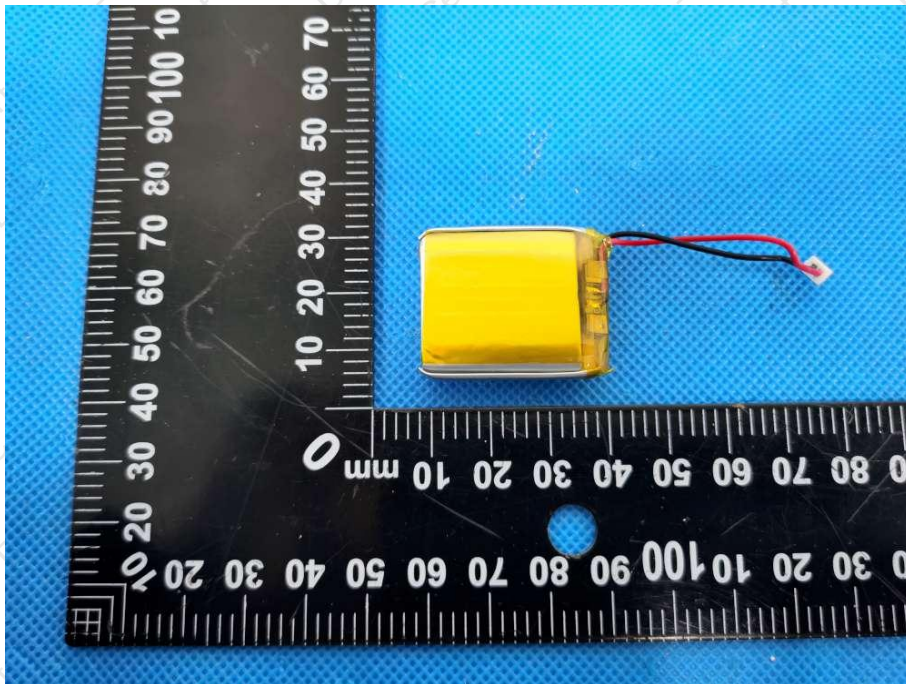
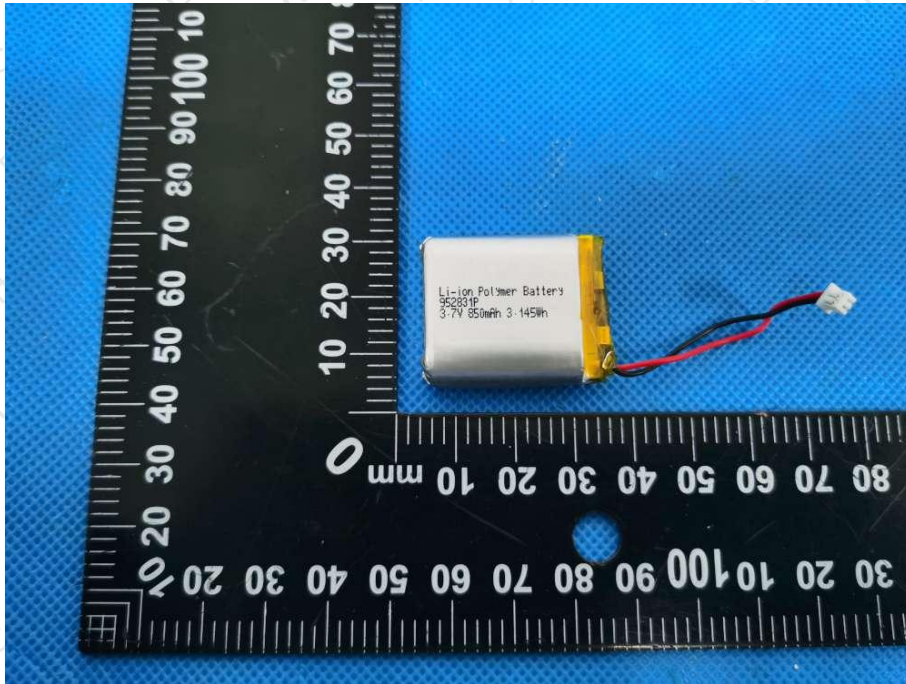












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