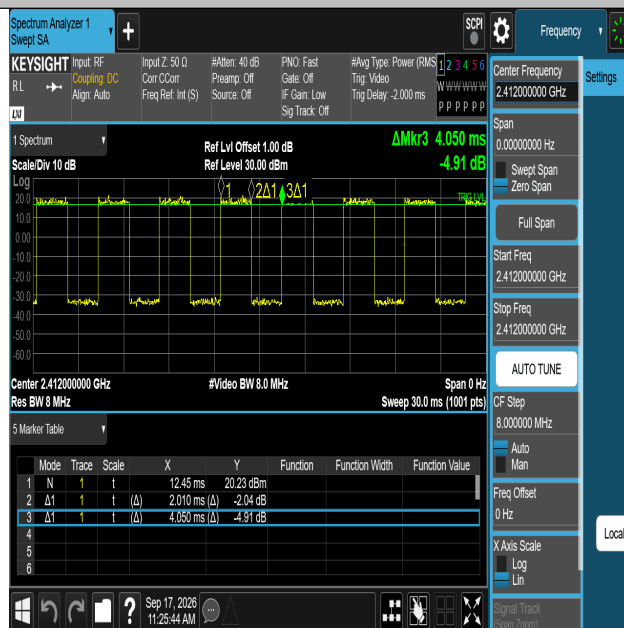
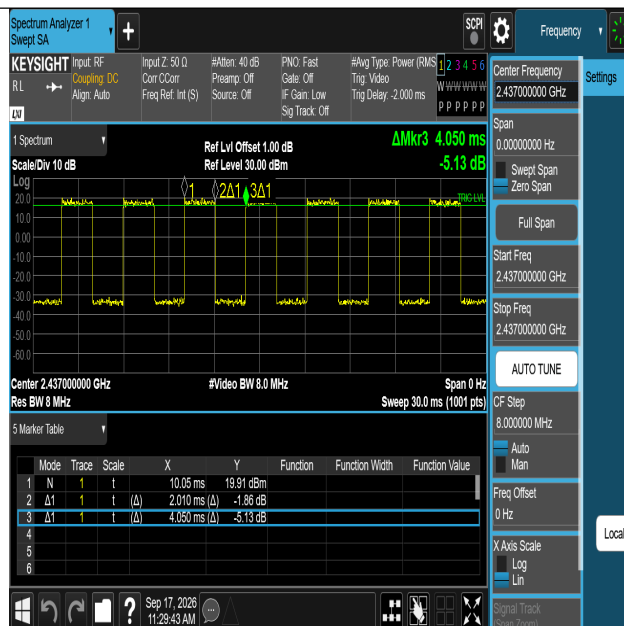




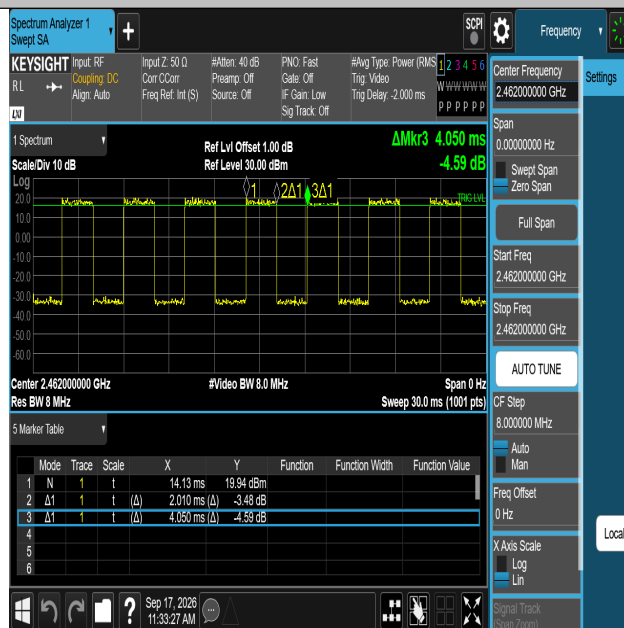
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



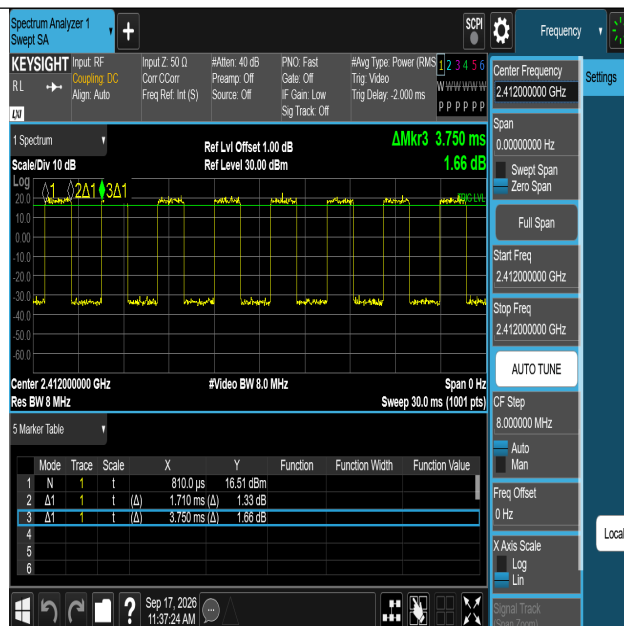
NTNV-11G-Ant1-2437



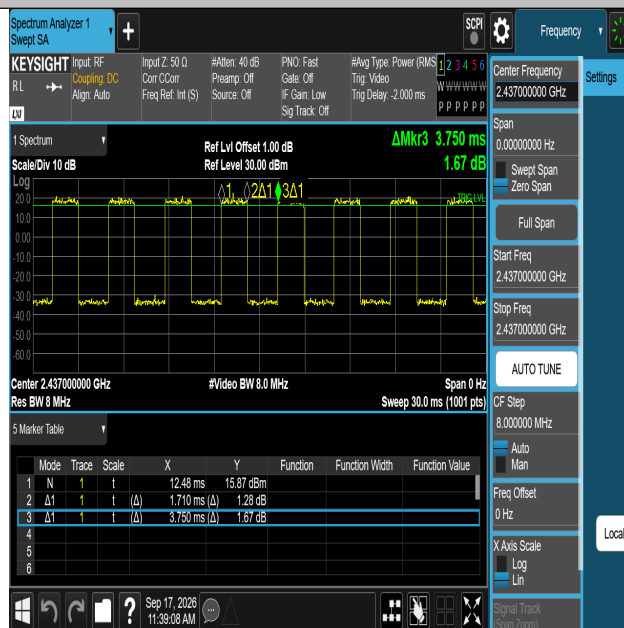
NTNV-11G-Ant1-2462



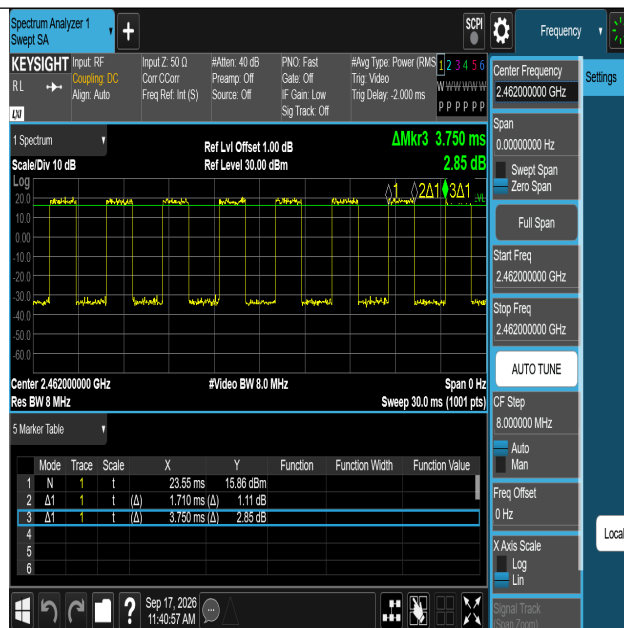
Report No.: PTC26090405402E-FC01



NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462



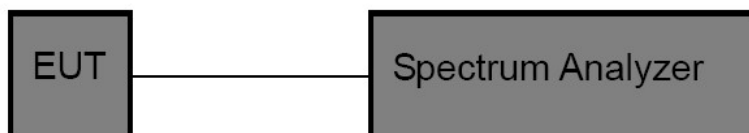
## 11 Power Spectral density

|                  |                                                                                                                                                                                                                                                                                                                                |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | : FCC CFR47 Part 15 Section 15.247                                                                                                                                                                                                                                                                                             |
| Test Method      | : ANSI C63.10-2020                                                                                                                                                                                                                                                                                                             |
| Test Limit       | : Regulation 15.247(e) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. |

### 11.1 Test Procedure

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below:  
Center frequency=DTS channel center frequency  
Span = 1.5 times the DTS bandwidth  
RBW = 3KHz, VBW = 10KHz  
Sweep time = auto couple  
Detector = peak  
Trace mode =max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW(no less than 3KHz) and repeat.

### 11.2 Test Setup



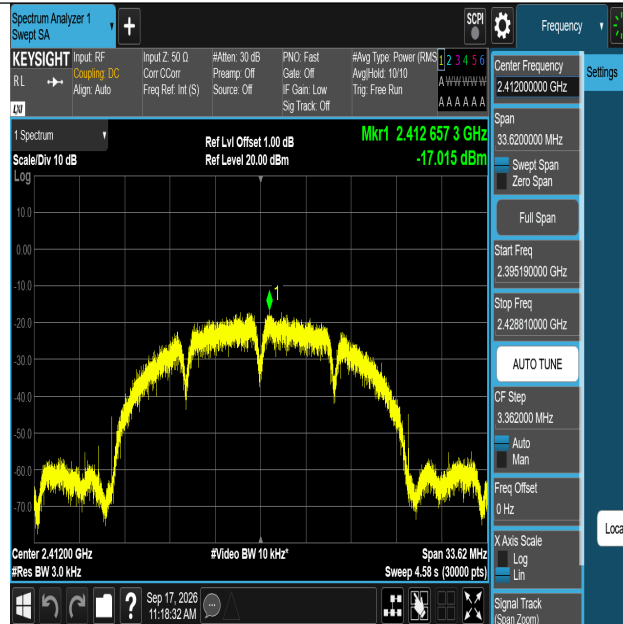
### 11.3 Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -15.77               | ≤8.00           | PASS    |
| 11B       | Ant1    | 2437           | -16.00               | ≤8.00           | PASS    |
| 11B       | Ant1    | 2462           | -16.46               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -17.78               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2437           | -17.37               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2462           | -17.48               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -17.06               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2437           | -16.40               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2462           | -16.46               | ≤8.00           | PASS    |

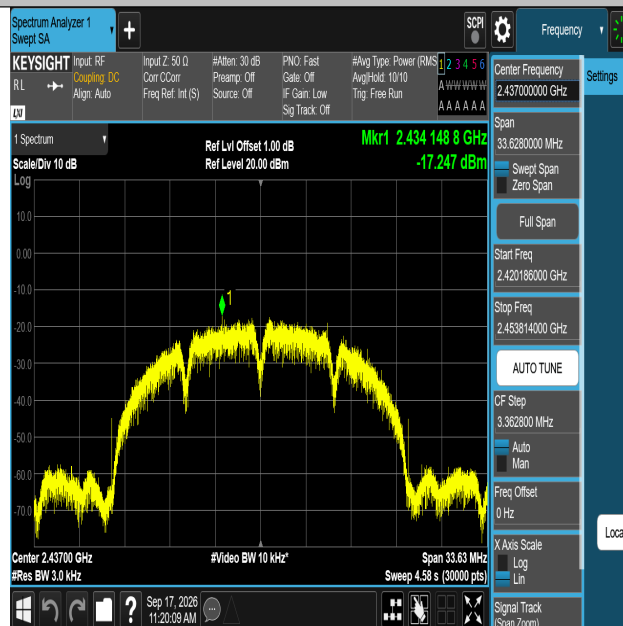
**Note:** The duty factor is already compensated in the following test plots.



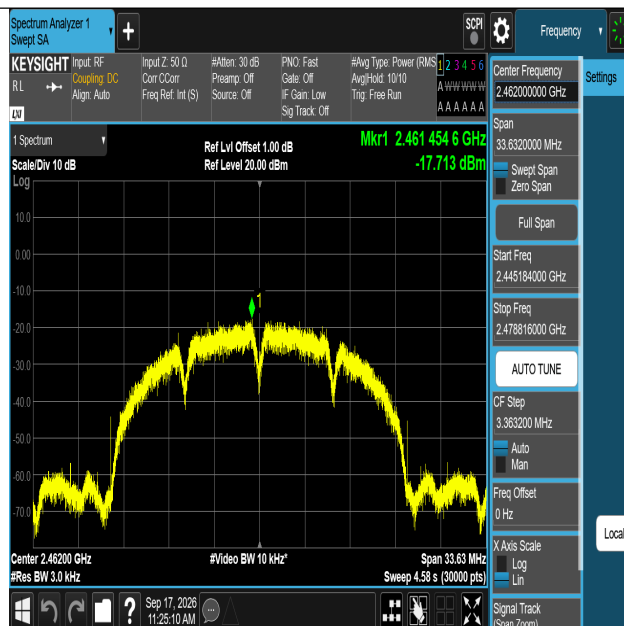
Test Graphs:



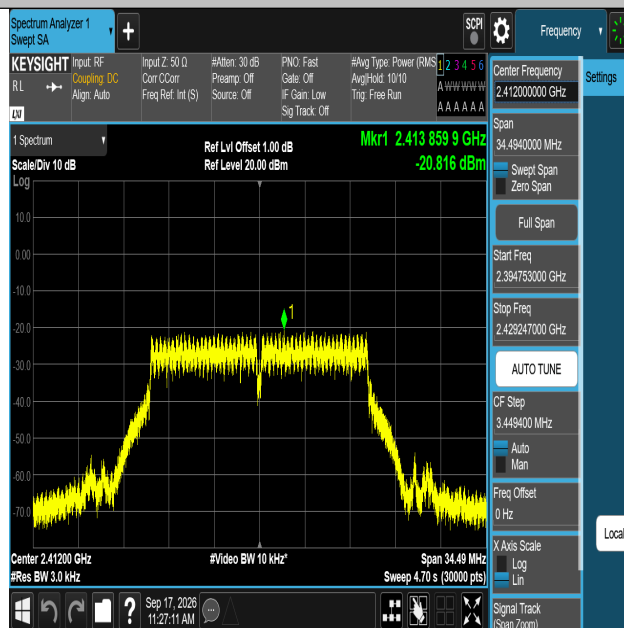
11B-Ant1-2412-PASS



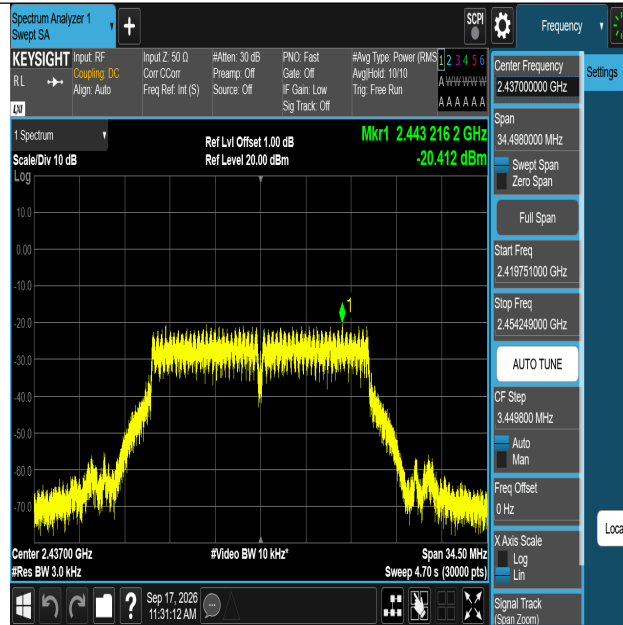
11B-Ant1-2437-PASS



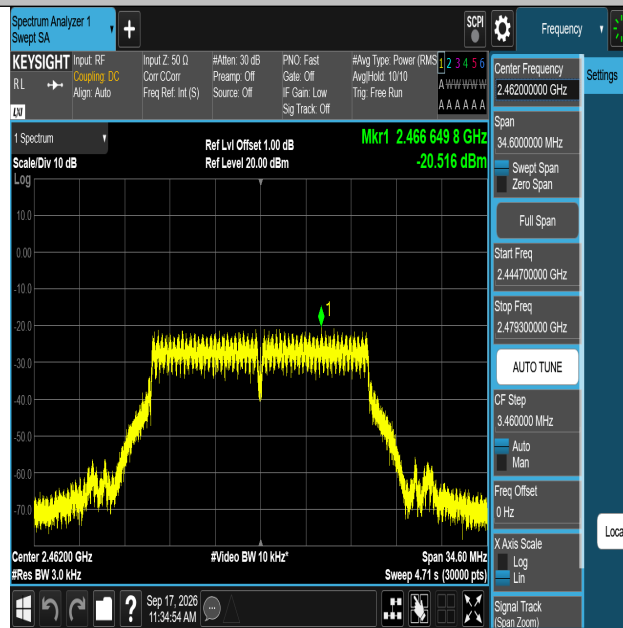
11B-Ant1-2462-PASS



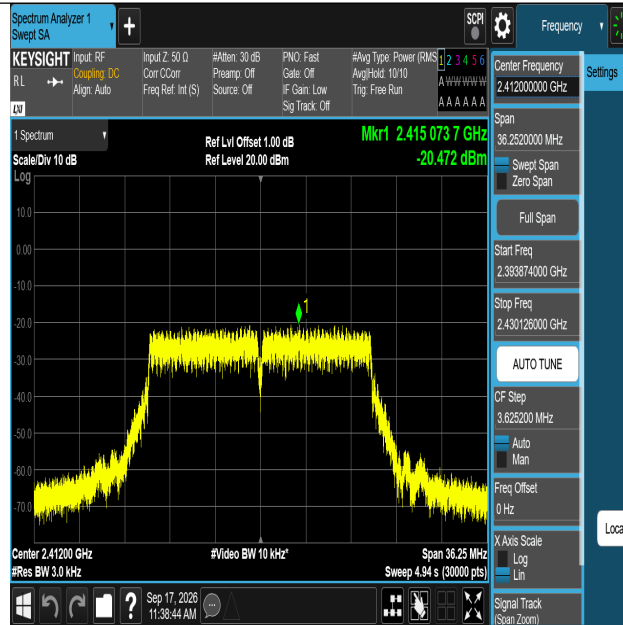
11G-Ant1-2412-PASS



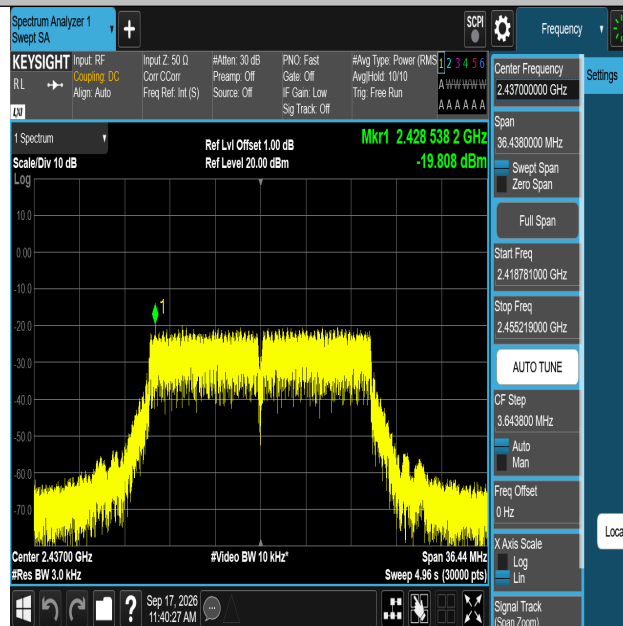
11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



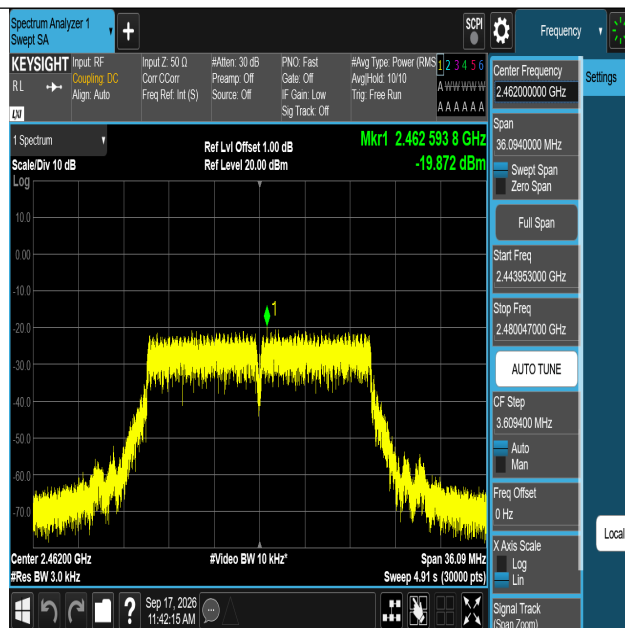
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



Report No.: PTC26090405402E-FC01



11N20SISO-Ant1-2462-PASS



## **12 Antenna Application**

### **12.1 Antenna Requirement**

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **12.2 Result**

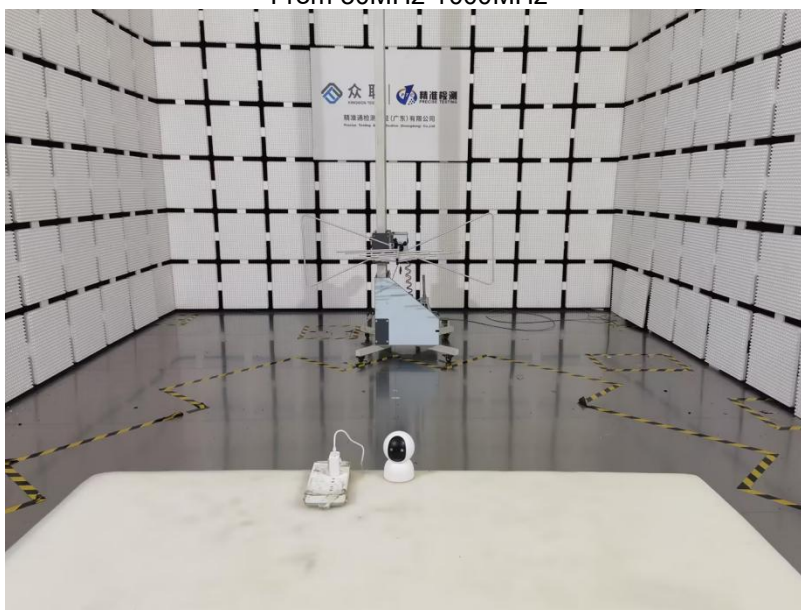
The EUT'S antenna, permanent attached antenna, is PCB Antenna. The antenna's gain is 3 dBi and meets the requirement.

## 13 Test Setup

Conducted Emissions



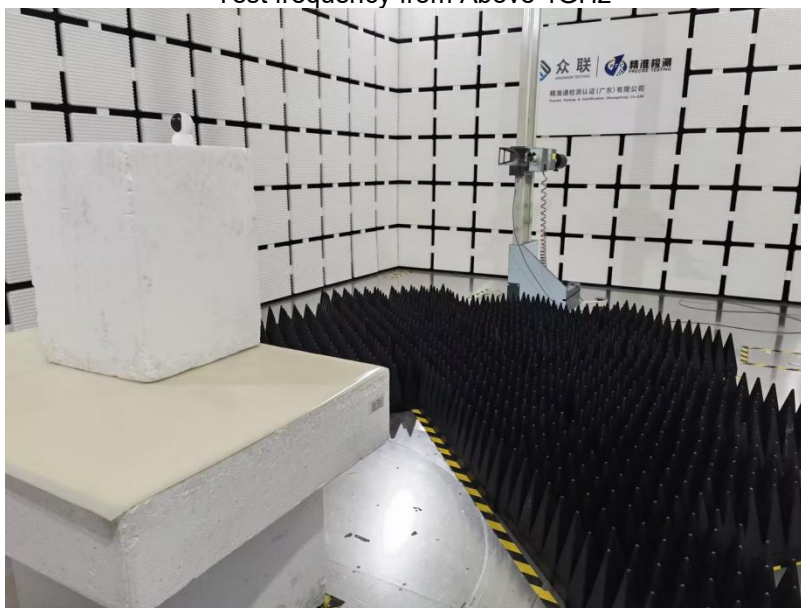
Radiated Spurious Emissions  
From 30MHz-1000MHz





Report No.: PTC26090405402E-FC01

Test frequency from Above 1GHz



\*\*\*\*\*THE END REPORT\*\*\*\*\*