Tx. Spurious NVNT b 2437MHz

Tx. Spurious NVNT b 2437MHz   Emission

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 GHz	4.910 dBm			
2	N	1	f	25.626 GHz	-40.878 dBm			
3	N	1	f	4.821 GHz	-53.957 dBm			
4	N	1	f	7.468 GHz	-53.972 dBm			
5	N	1	f	9.903 GHz	-53.974 dBm			
6								
7								
8								
9								
10								
11								

BCTC

Tx. Spurious NVNT b 2462MHz

Agilent Spectrum Analyzer - Swept SA

R L RF 50 Ω AC | SENSE:INT | ALIGN AUTO | 02:14:58 PM Dec 12, 2024

Center Freq 2.462000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100

Mkr1 2.460 50 GHz
5.634 dBm

Ref Offset 2.6 dB
Ref 20.00 dBm
10 dB/div
Log

Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)

Frequency
Auto Tune
Center Freq 2.462000000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

Tx. Spurious NVNT b 2462MHz   Emission

Agilent Spectrum Analyzer - Swept SA

R L RF 50 Ω AC | SENSE:INT | ALIGN AUTO | 02:15:27 PM Dec 12, 2024

Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10

Mkr1 2.465 GHz
4.917 dBm

Ref Offset 2.6 dB
Ref 20.00 dBm
10 dB/div
Log

-14.37 dBm

Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.465 GHz	4.917 dBm			
2	N	1	f	25.600 GHz	-40.874 dBm			
3	N	1	f	4.927 GHz	-54.163 dBm			
4	N	1	f	7.547 GHz	-54.542 dBm			
5	N	1	f	9.983 GHz	-53.502 dBm			
6								
7								
8								
9								
10								
11								

Frequency
Auto Tune
Center Freq 13.265000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.500000000 GHz
CF Step 2.647000000 GHz Auto Man
Freq Offset 0 Hz

Tx. Spurious NVNT g 2412MHz

Tx. Spurious NVNT g 2412MHz   Emission

Tx. Spurious NVNT g 2437MHz

Tx. Spurious NVNT g 2437MHz   Emission

Tx. Spurious NVNT g 2462MHz

Tx. Spurious NVNT g 2462MHz   Emission

Tx. Spurious NVNT n20 2412MHz

Tx. Spurious NVNT n20 2412MHz   Emission

Tx. Spurious NVNT n20 2437MHz

Tx. Spurious NVNT n20 2437MHz   Emission

Tx. Spurious NVNT n20 2462MHz

Tx. Spurious NVNT n20 2462MHz   Emission

Tx. Spurious NVNT n40 2422MHz

Tx. Spurious NVNT n40 2422MHz   Emission

Tx. Spurious NVNT n40 2437MHz

Tx. Spurious NVNT n40 2437MHz   Emission

Tx. Spurious NVNT n40 2452MHz

Tx. Spurious NVNT n40 2452MHz　Emission

13. Duty Cycle Of Test Signal

13.1 Standard Requirement

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.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

1.Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

13.4 Test Result

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	100	0
NVNT	g	2412	100	0
NVNT	n20	2412	100	0
NVNT	n40	2422	100	0

Test Graphs

Duty Cycle NVNT b 2412MHz

Duty Cycle NVNT g 2412MHz

Duty Cycle NVNT n20 2412MHz

Duty Cycle NVNT n40 2422MHz
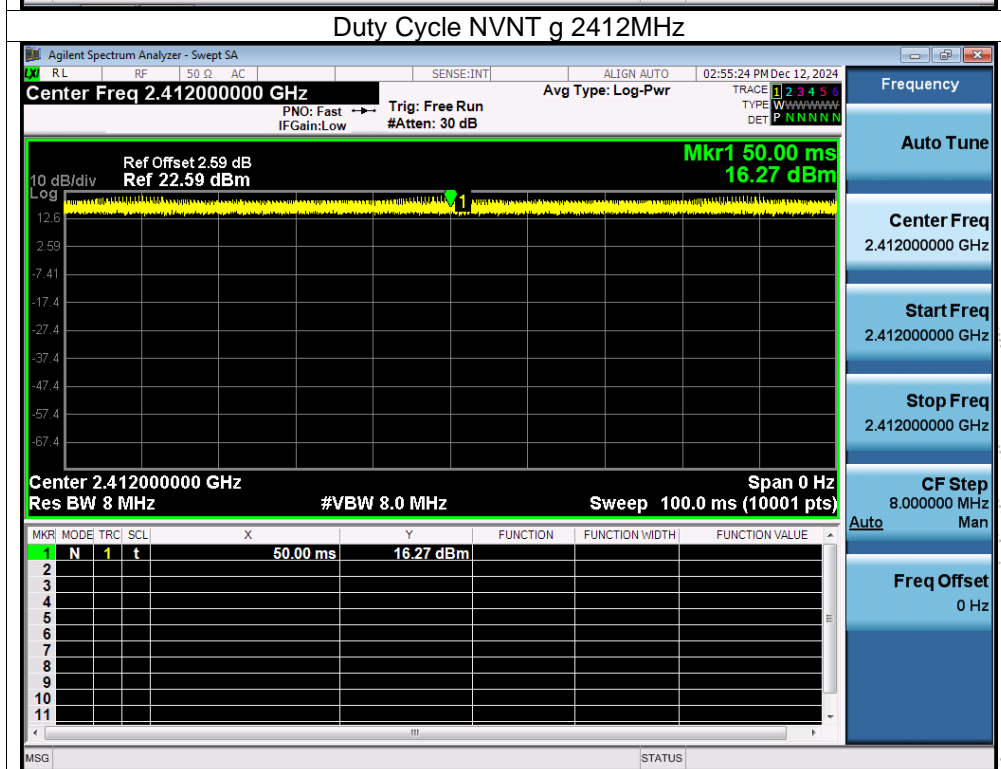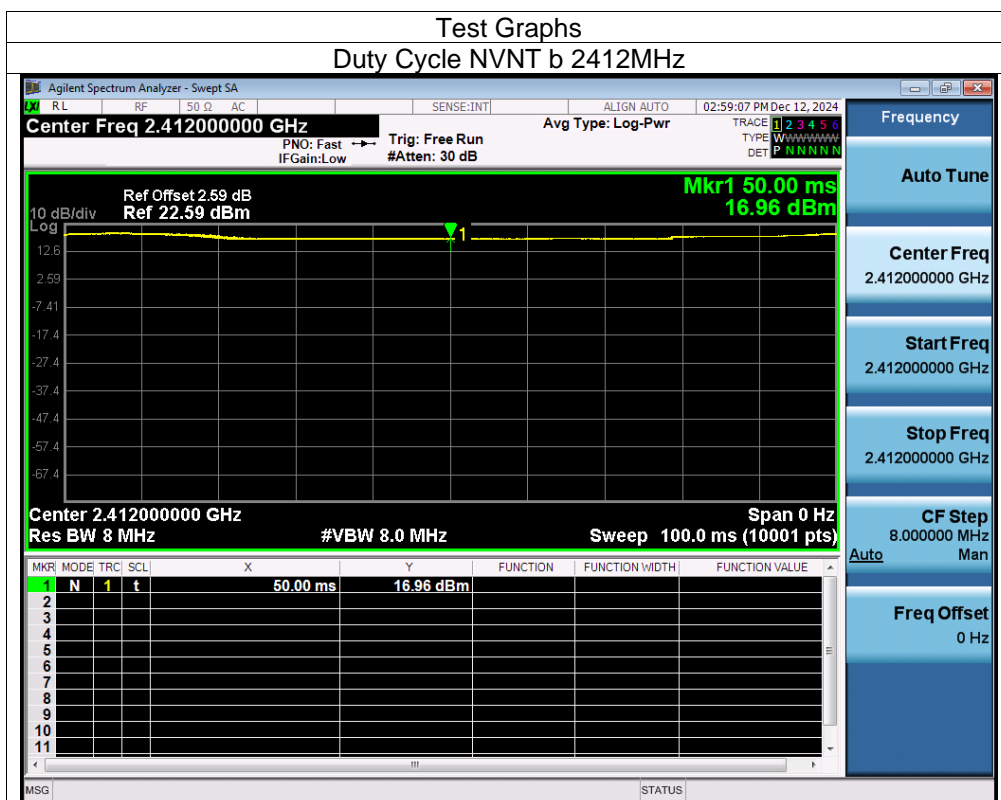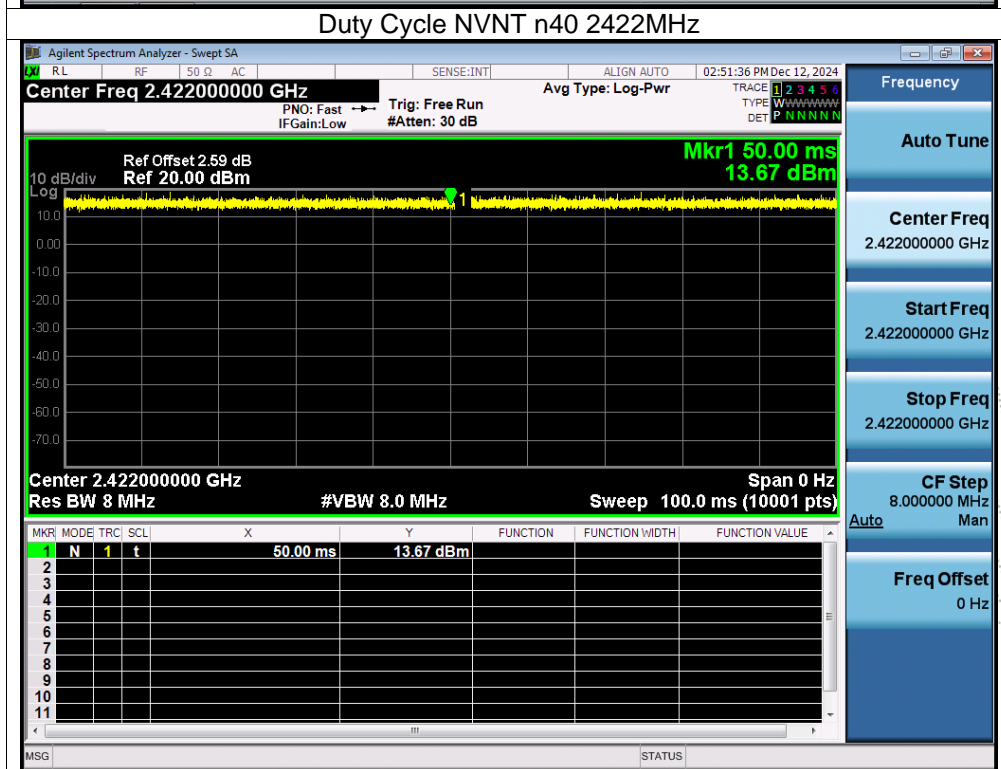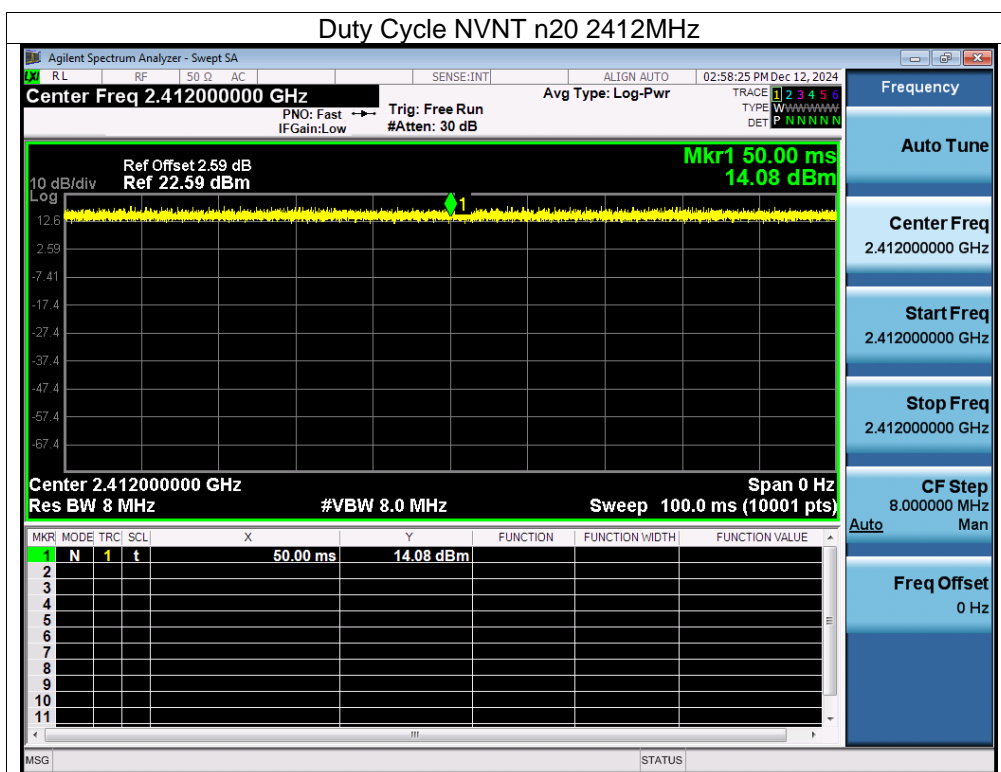
14. Antenna Requirement

14.1   Limit

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.

### 14.2   Test Result

The EUT antenna is shrapnel antenna, fulfill the requirement of this section.
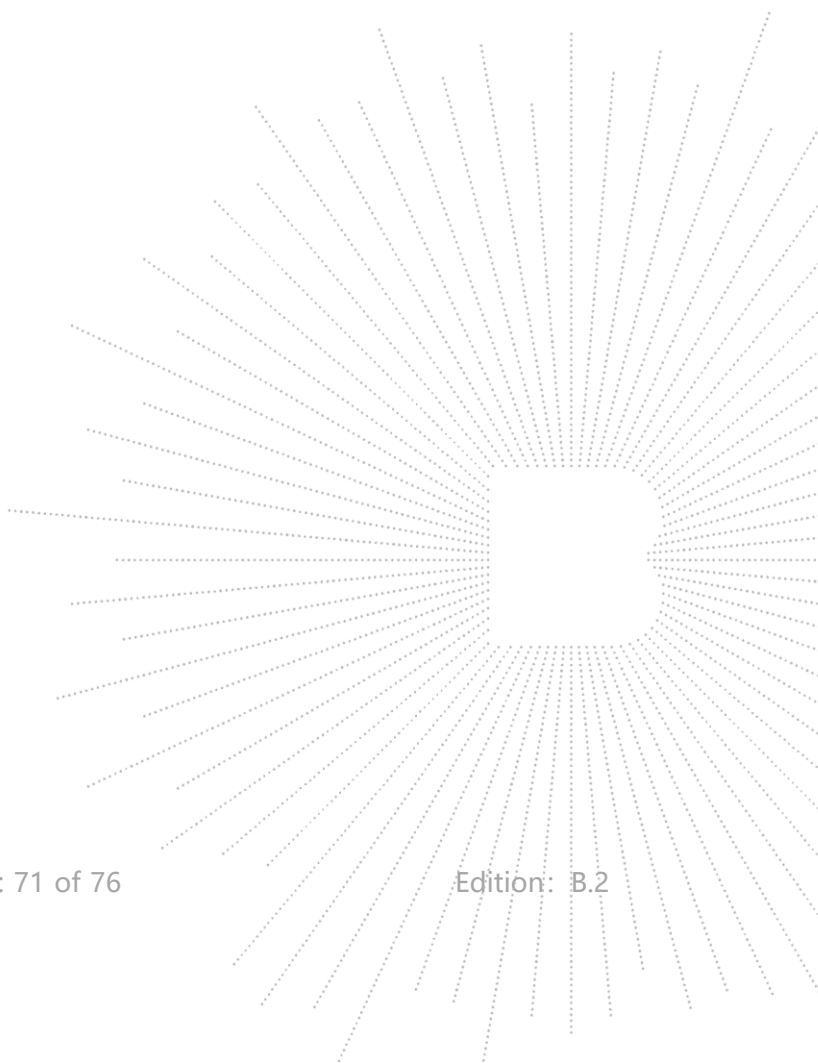
15. EUT Photographs

EUT Photo 1
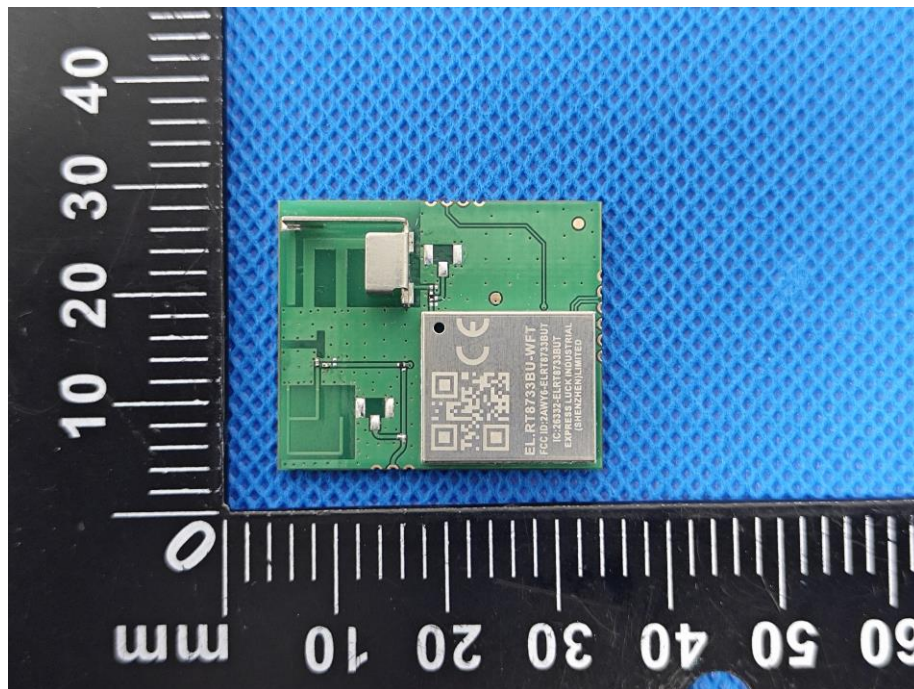
EUT Photo 2
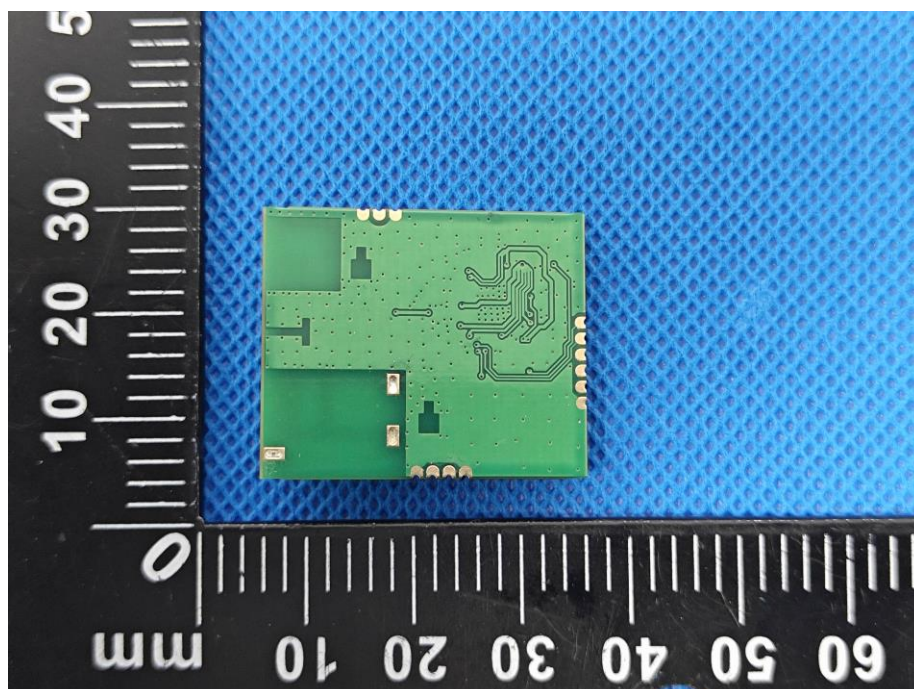

NOTE: Appendix-Photographs Of EUT Constructional Details.

## 16. EUT Test Setup Photographs

Conducted Emissions Photo
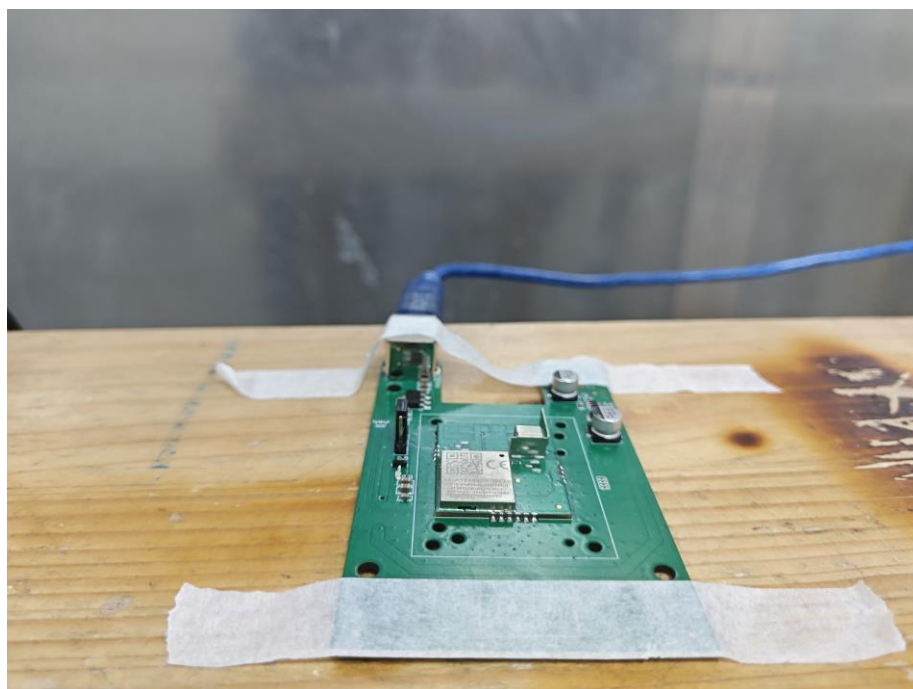
Radiated Measurement Photos

BCTC
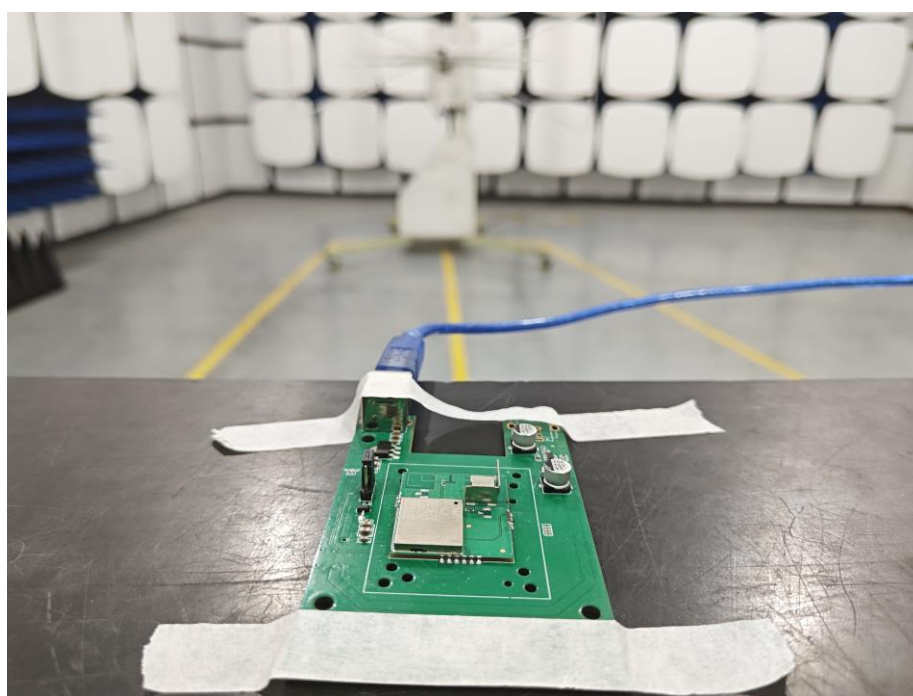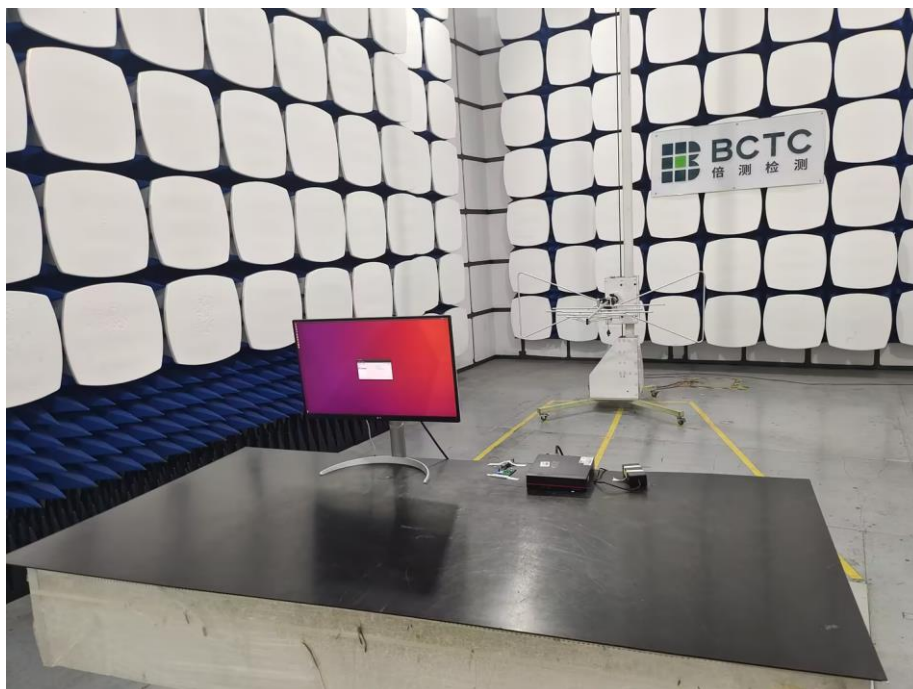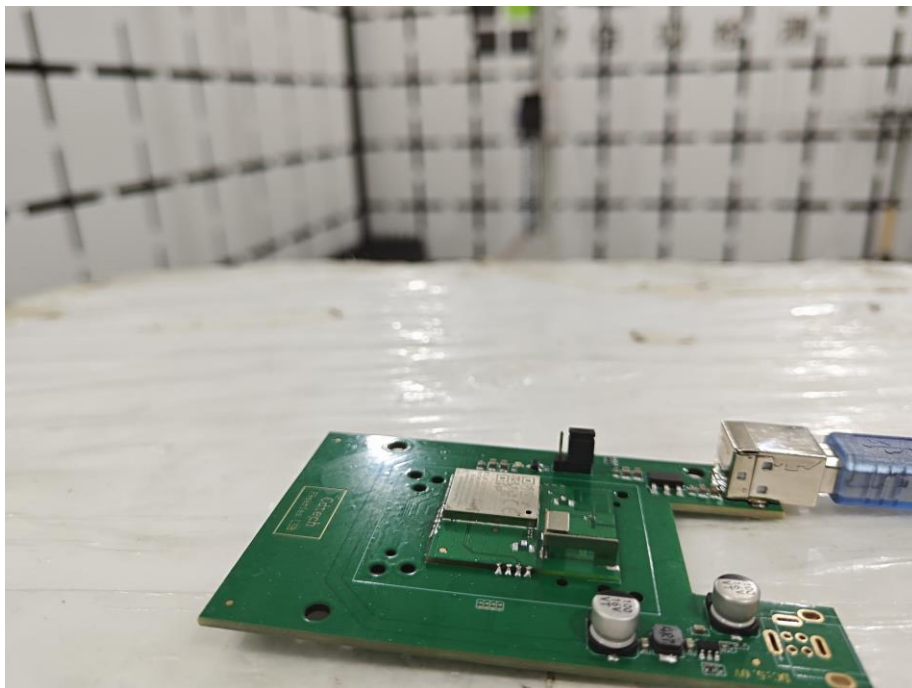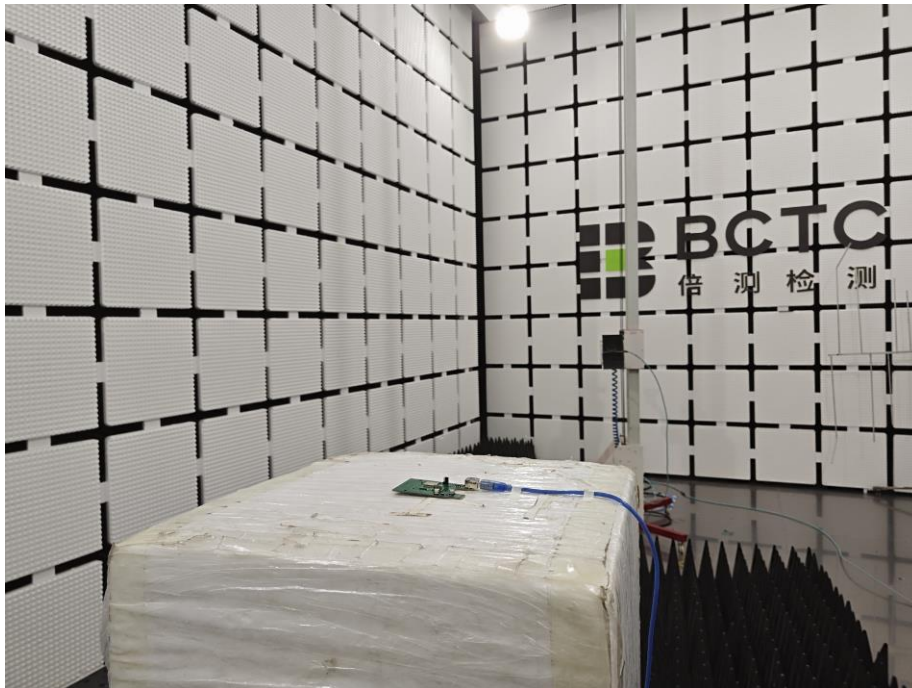
STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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