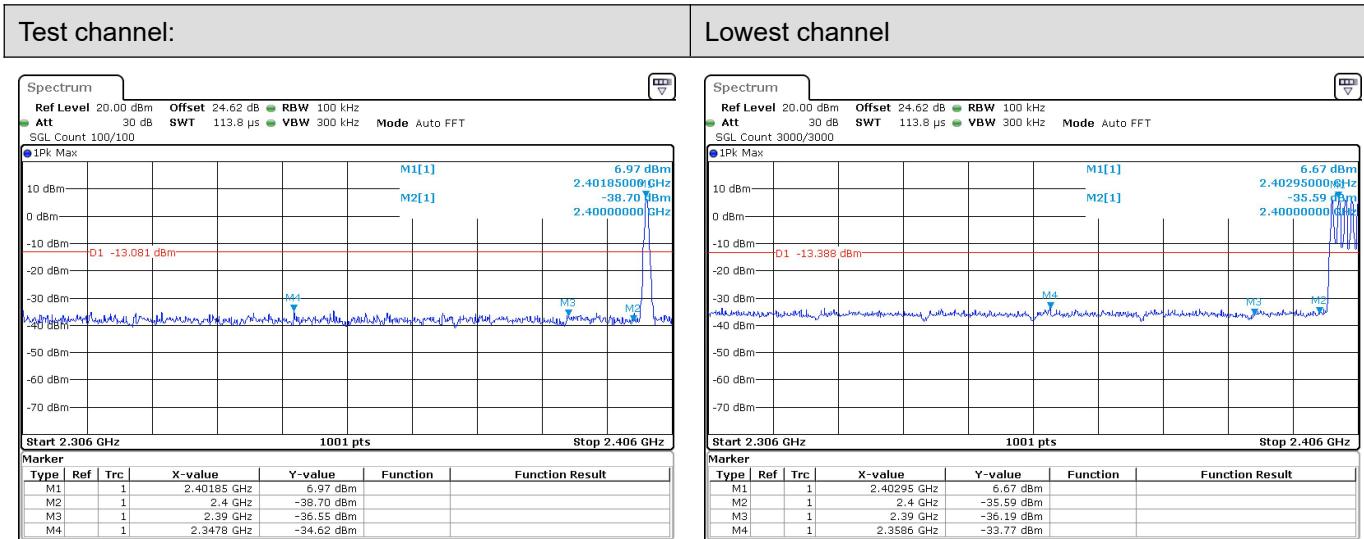


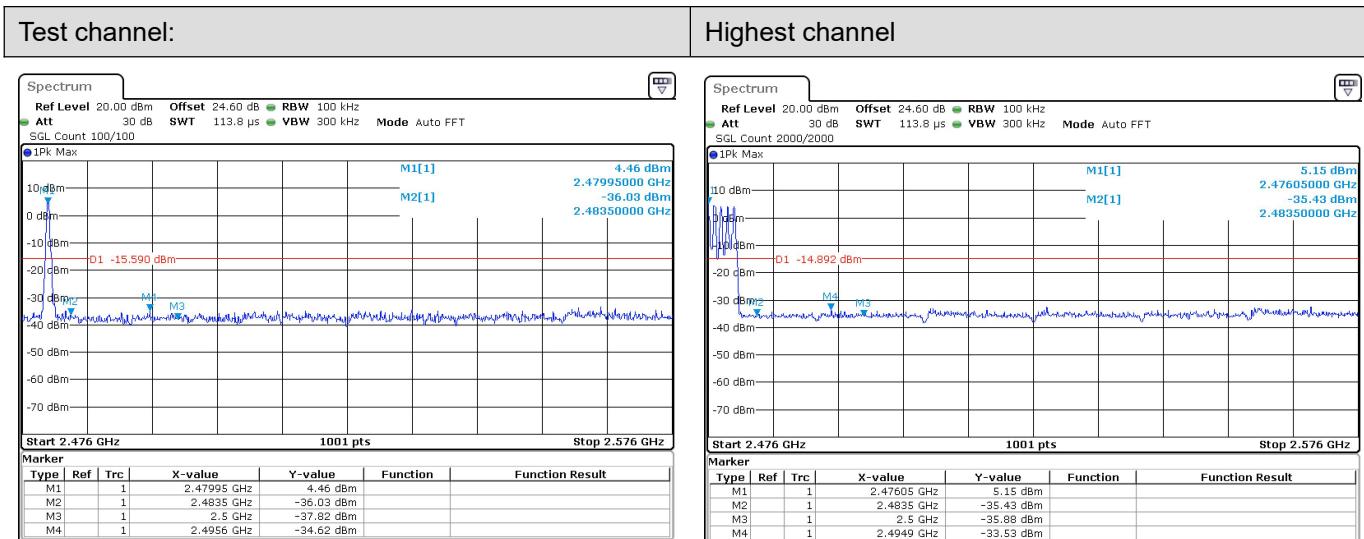
## Conducted Method

## GFSK Mode:



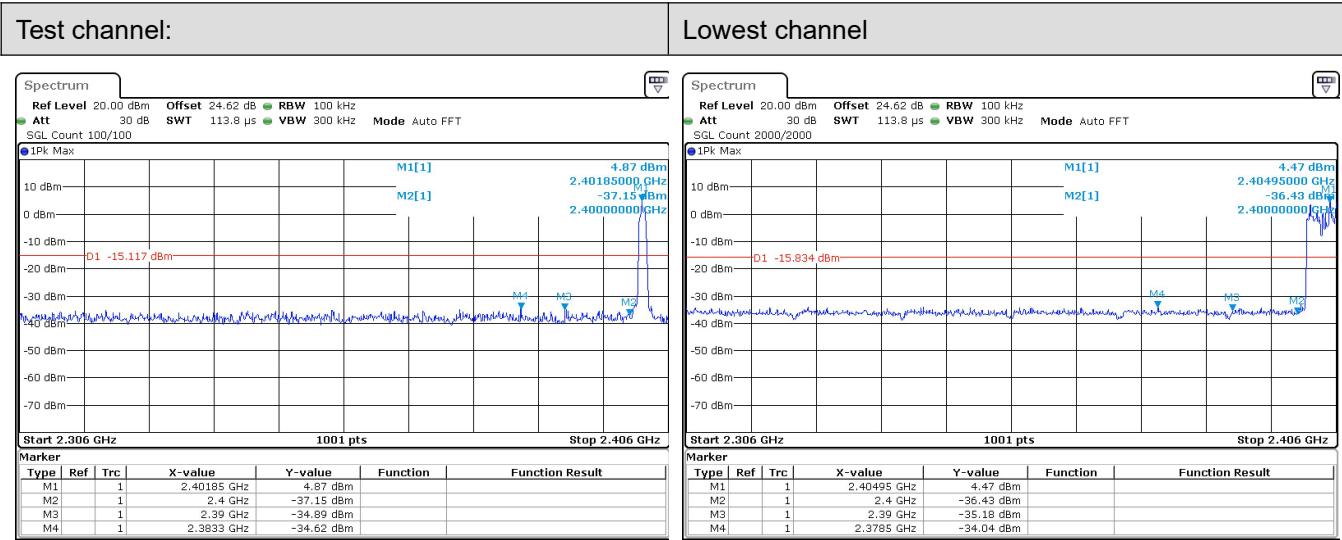
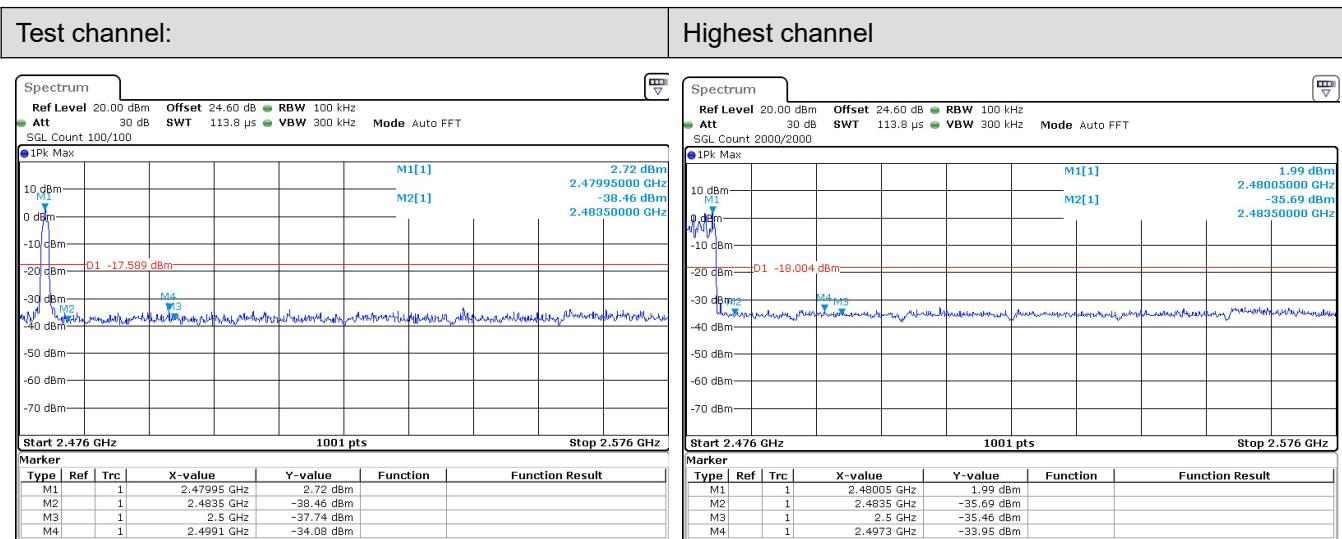
No-hopping mode

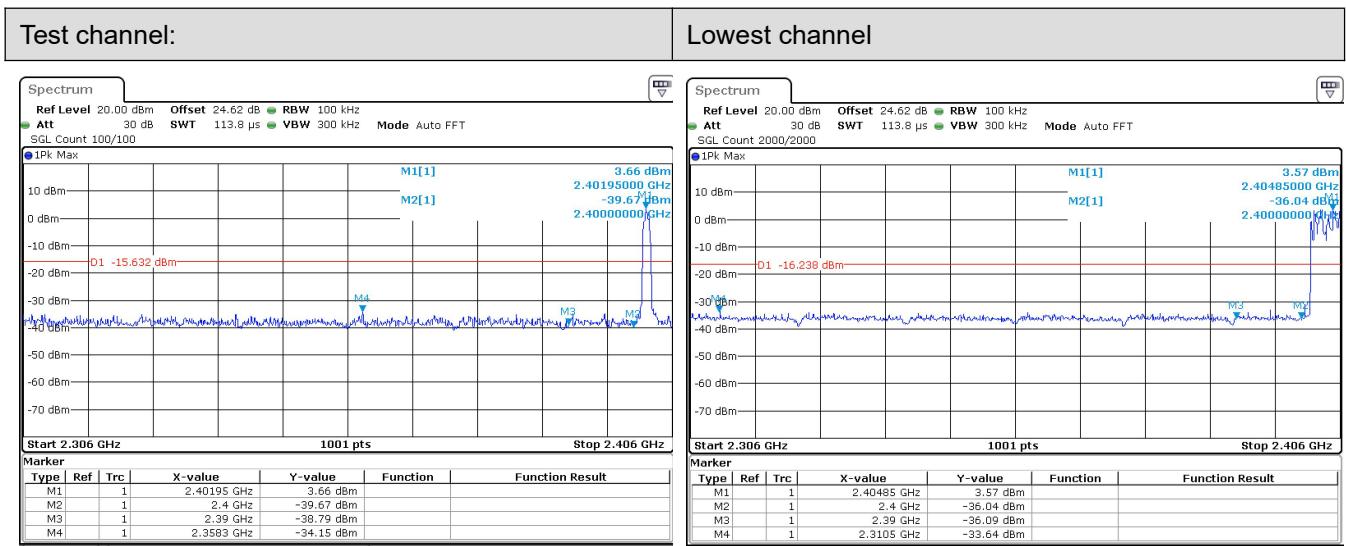
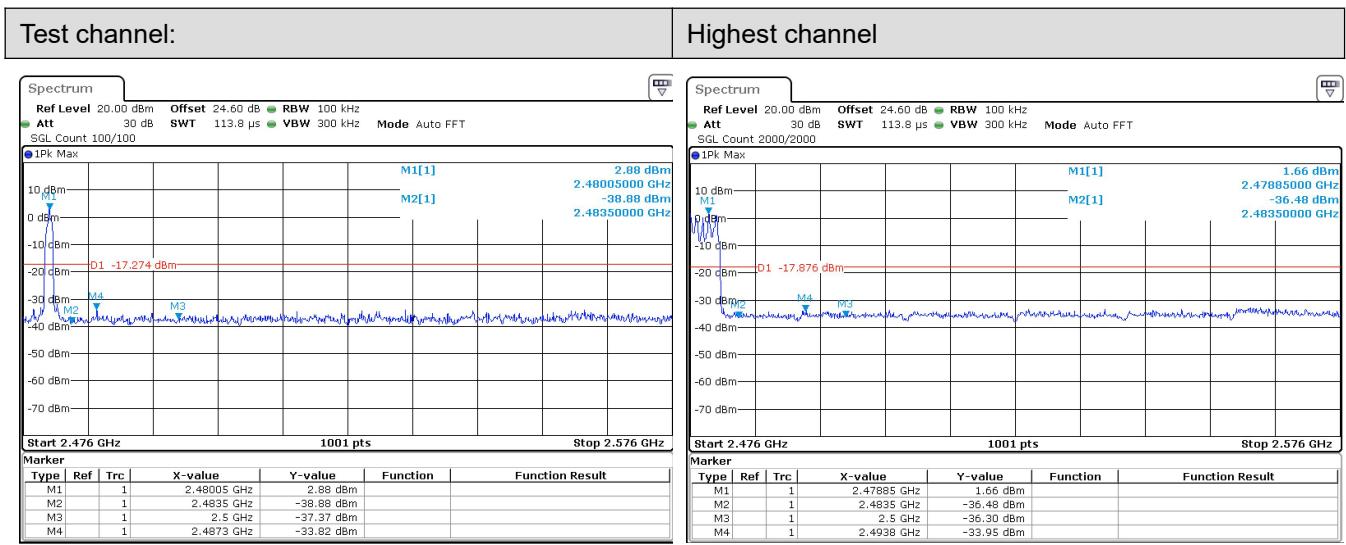
Hopping mode



No-hopping mode

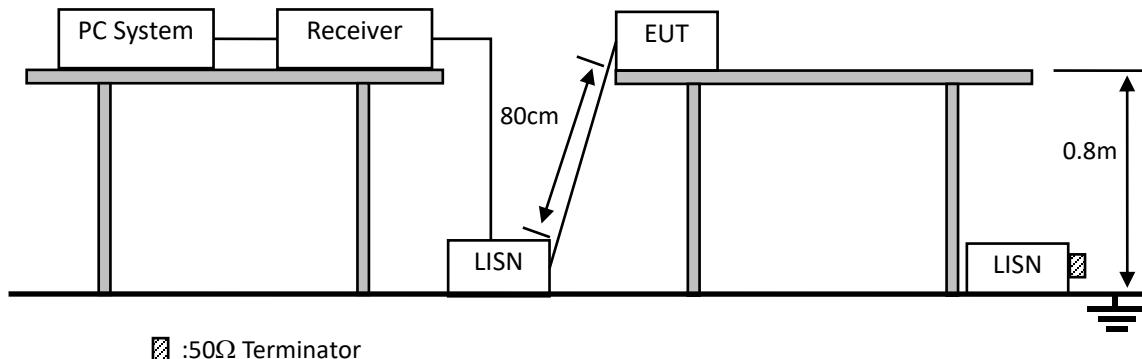
Hopping mode

**π/4DQPSK Mode:**

**No-hopping mode**
**Hopping mode**

**No-hopping mode**
**Hopping mode**

**8DPSK Mode:**

**No-hopping mode**
**Hopping mode**

**No-hopping mode**
**Hopping mode**

## 10. POWER LINE CONDUCTED EMISSIONS

### 10.1. Block Diagram of Test Setup



■ :50Ω Terminator

### 10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(µV)	Average Level dB(µV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

### 10.3. Test Procedure

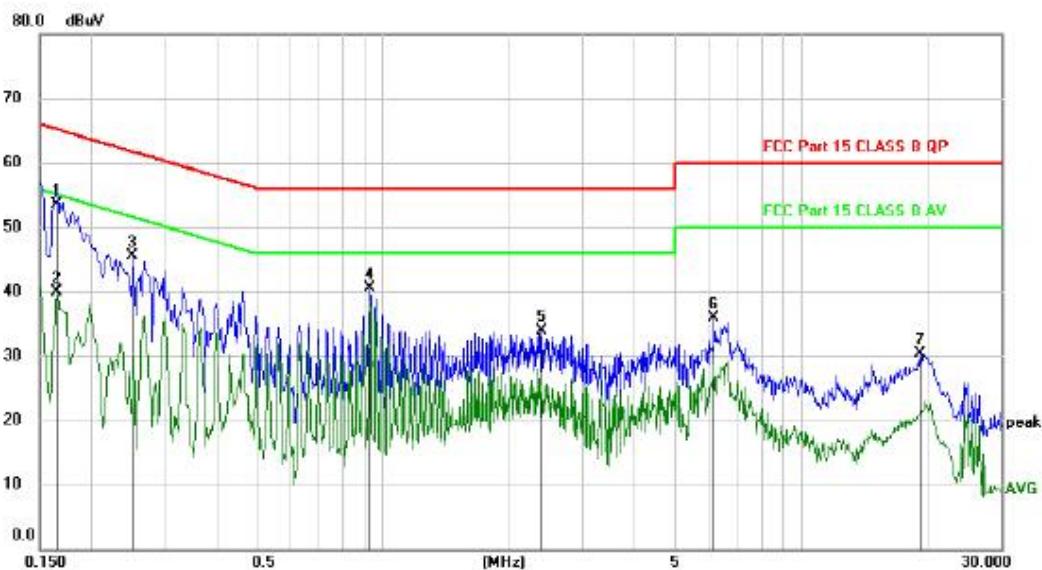
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

### 10.4. Test Result

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Line:

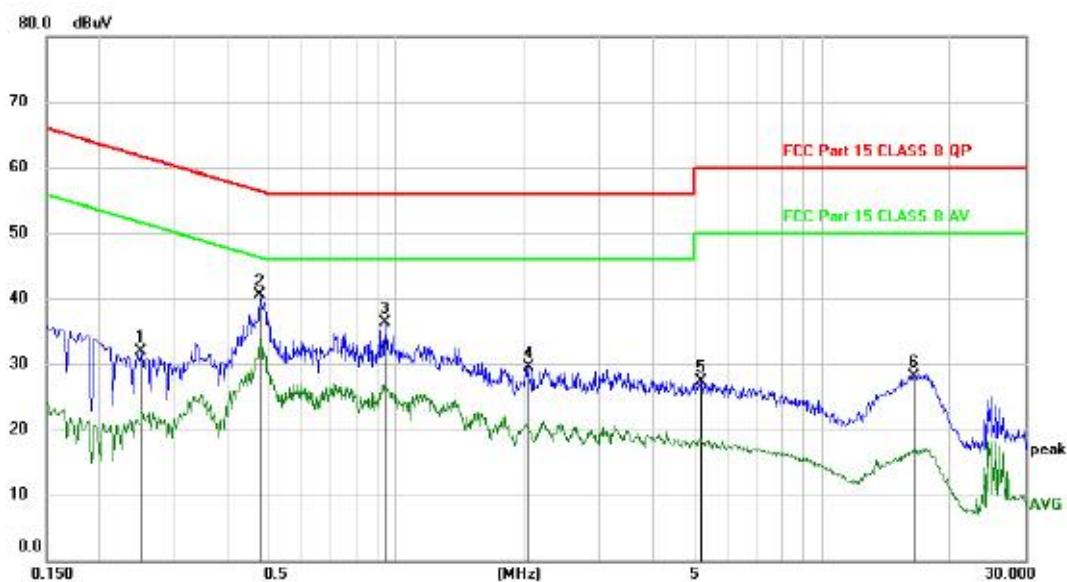


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1650	53.45	0.00	53.45	65.21	-11.76	QP	
2		0.1650	39.95	0.00	39.95	55.21	-15.26	AVG	
3		0.2519	45.43	0.00	45.43	61.69	-16.26	peak	
4		0.9270	40.56	0.00	40.56	56.00	-15.44	peak	
5		2.3850	33.88	0.00	33.88	56.00	-22.12	peak	
6		6.1650	35.85	0.00	35.85	60.00	-24.15	peak	
7		19.2150	30.27	0.00	30.27	60.00	-29.73	peak	

\*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

**Neutral:**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2519	21.91	9.97	31.88	61.69	-29.81	peak	
2	*	0.4770	30.45	9.96	40.41	56.39	-15.98	peak	
3		0.9420	26.32	9.95	36.27	56.00	-19.73	peak	
4		2.0369	19.59	9.88	29.47	56.00	-26.53	peak	
5		5.2080	17.16	10.05	27.21	60.00	-32.79	peak	
6		16.4400	17.79	10.37	28.16	60.00	-31.84	peak	

\*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the GFSK 2402MHz mode with the worst data is listed.

## **11. ANTENNA REQUIREMENTS**

### **11.1. Limit**

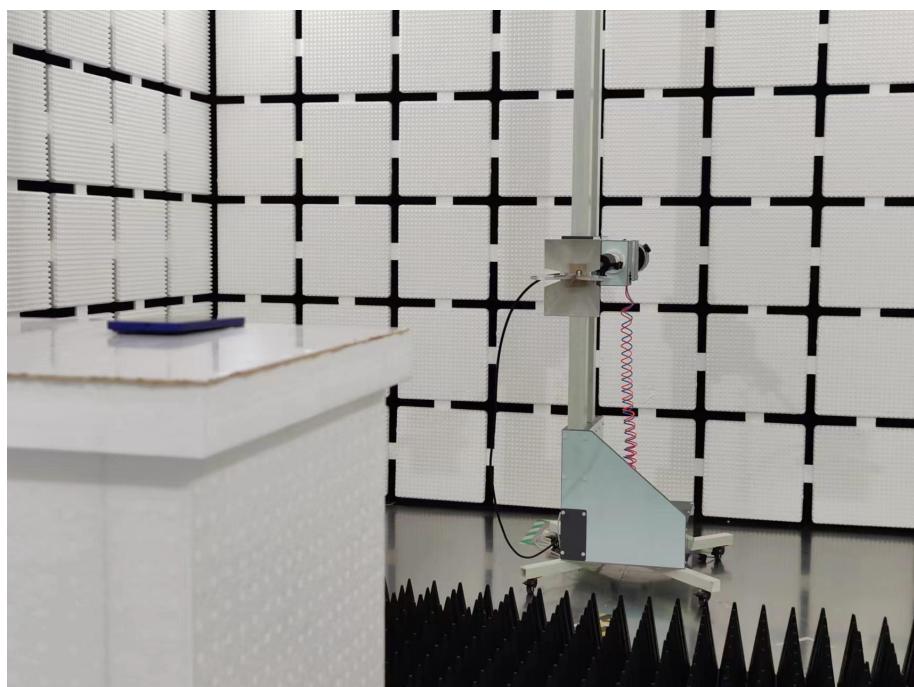
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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.

### **11.2. Result**

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

## 12. TEST SETUP PHOTO

### 12.1. Photo of Radiated Emission test



## 12.2.Photo of Conducted Emission test



-----END OF REPORT-----