



REPORT No.: SZ24120308E01

TEST REPORT

APPLICANT : Dongguan Kingsheng Electronics & Technology Co., Ltd

PRODUCT NAME : PS3/PC/Switch/Android/IOS wireless controller

MODEL NAME : SL-9143

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-12-26

TEST DATE : 2024-12-26

ISSUE DATE : 2024-12-27



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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2024-12-27	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Dongguan Kingsheng Electronics & Technology Co., Ltd
Applicant Address:	Building 39, Arising Sun Industrial, Lincun Village, Tangxia Town, Dongguan, Guangdong, China
Manufacturer:	N/A
Manufacturer Address:	N/A

1.2. Equipment Under Test (EUT) Description

Wireless Type:	Bluetooth
Test frequency band:	2400MHz-2500MHz
IMEI:	N/A
Sample No.:	1#



2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

2.4. Test Results lists

2.4.1. Gain

Frequency	Gain(dBi)
2400MHz	-0.20
2410MHz	0.06
2420MHz	0.23
2430MHz	0.23
2440MHz	0.44
2450MHz	0.63
2460MHz	0.74
2470MHz	1.05
2480MHz	1.22
2490MHz	1.54
2500MHz	2.07

2.4.2. Efficiency

Frequency	Efficiency(%)
2400MHz	17.31
2410MHz	18.46
2420MHz	19.02
2430MHz	18.99
2440MHz	20.09
2450MHz	21.52
2460MHz	22.61
2470MHz	23.74
2480MHz	24.52
2490MHz	26.16
2500MHz	28.63

2.4.3.VSWR

Frequency	VSWR
2400MHz	6.70
2450MHz	5.10
2500MHz	3.29

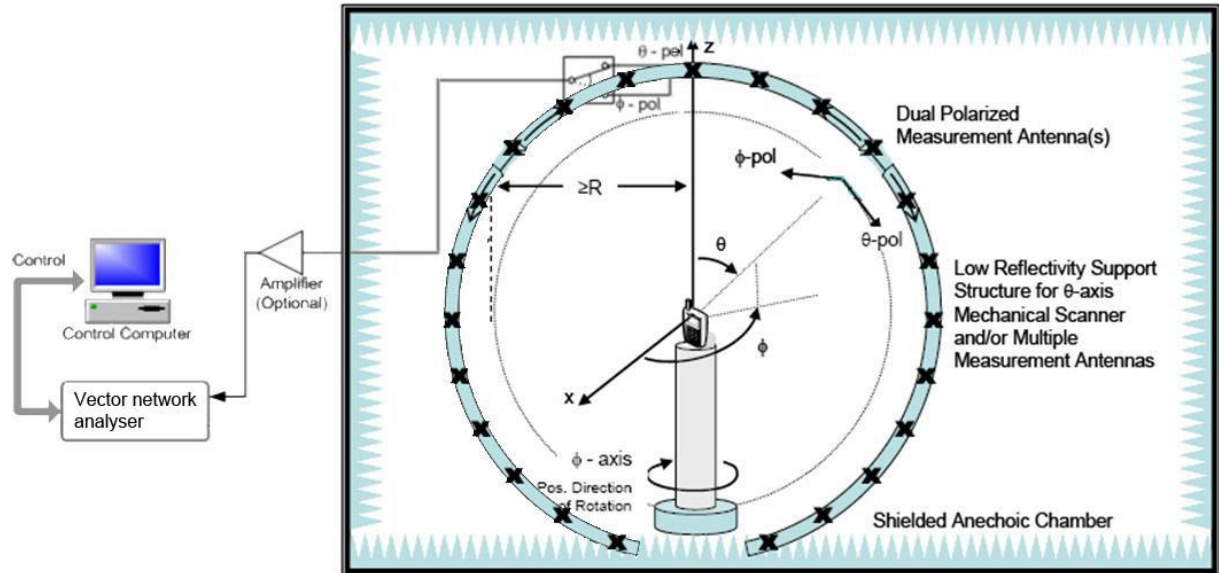
2.4.4.Impedance

Frequency	Impedance(Ω)
2400MHz	32.35
2450MHz	19.70
2500MHz	17.95

2.4.5.Return Loss

Frequency	Return Loss(dB)
2400MHz	-2.60
2450MHz	-3.44
2500MHz	-5.44

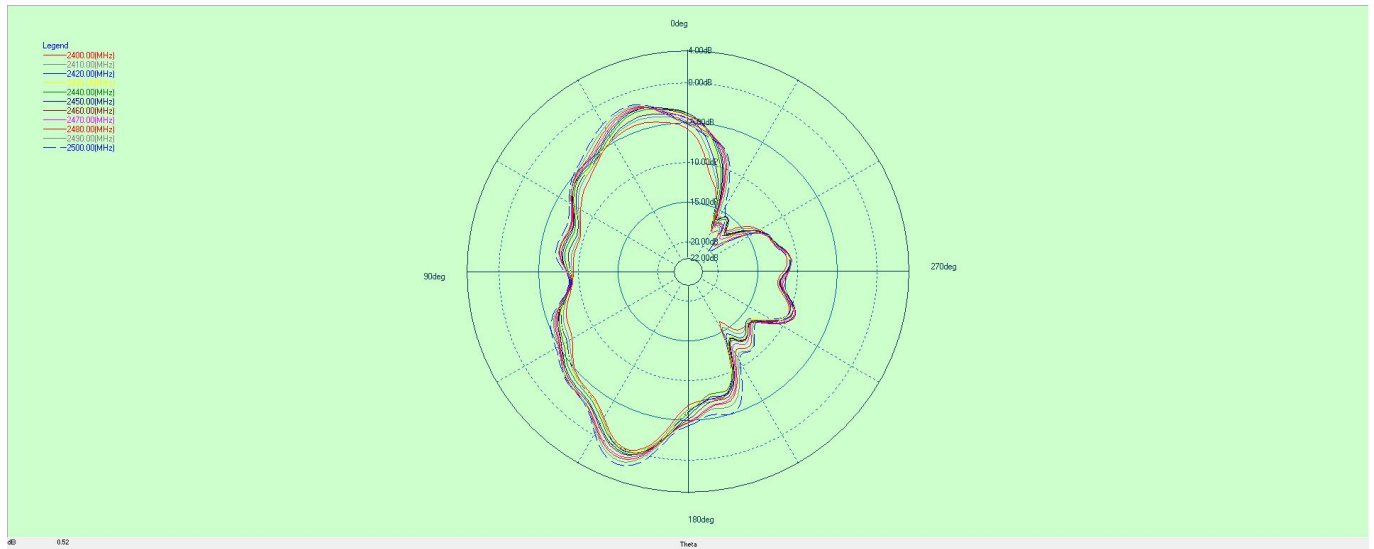
Annex A Test Setup Photos



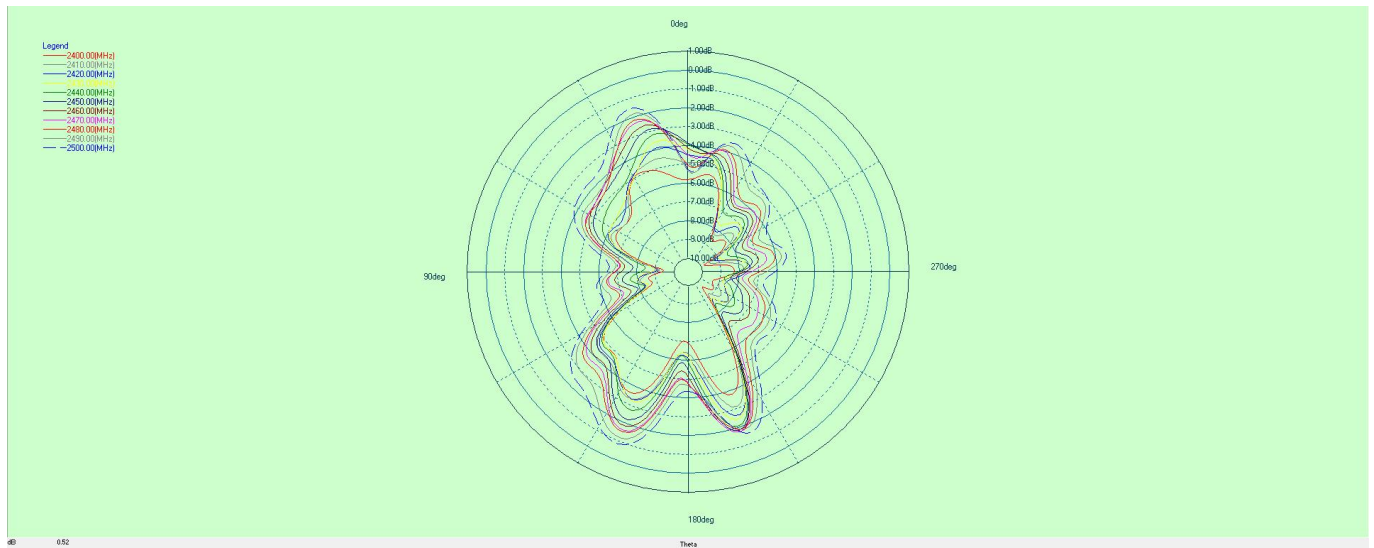
Annex B Figures

1. 2D Radiation Pattern

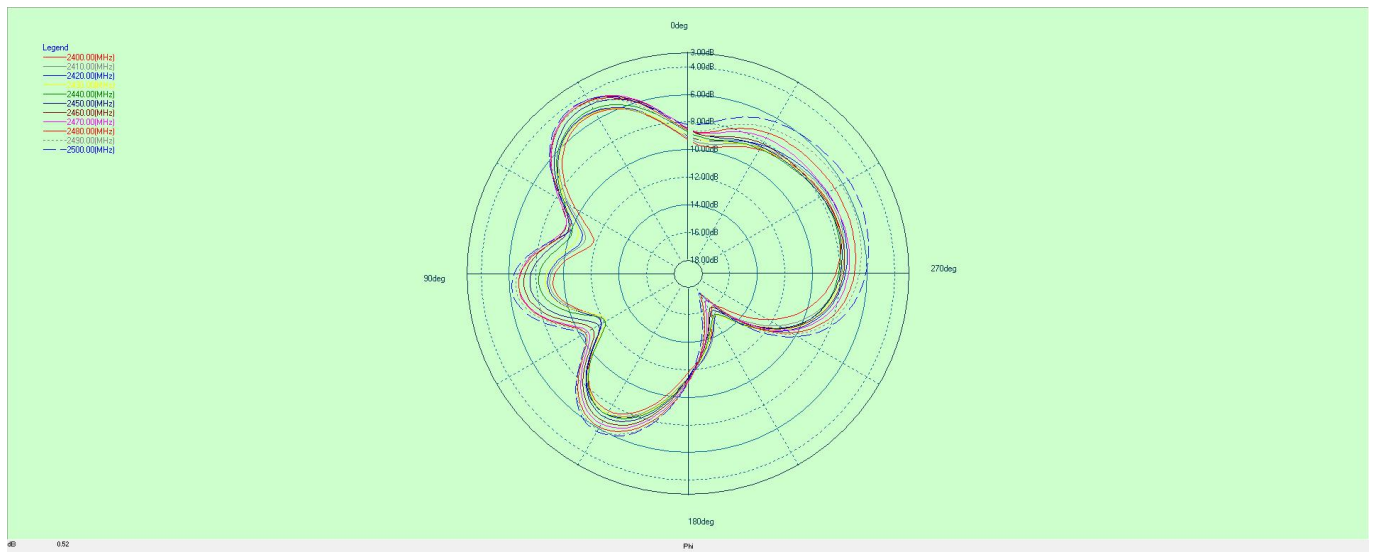
Phi=0°



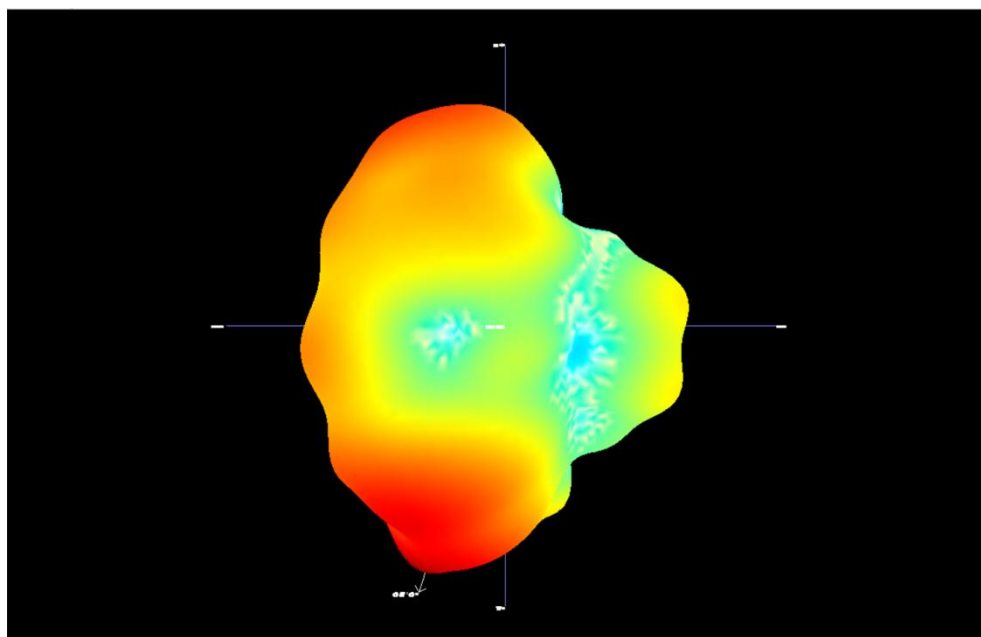
Phi=90°



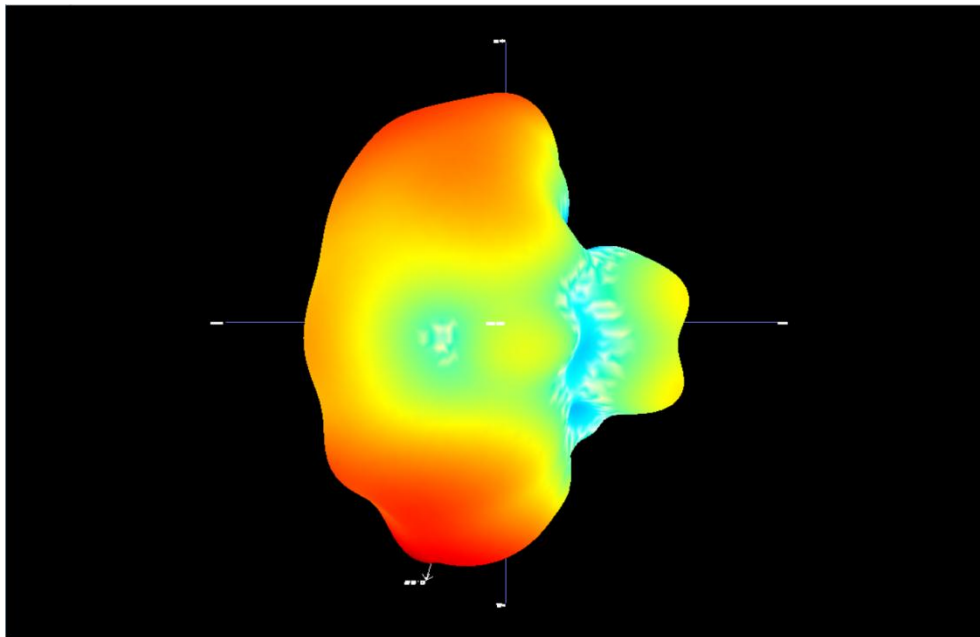
Theta=90°



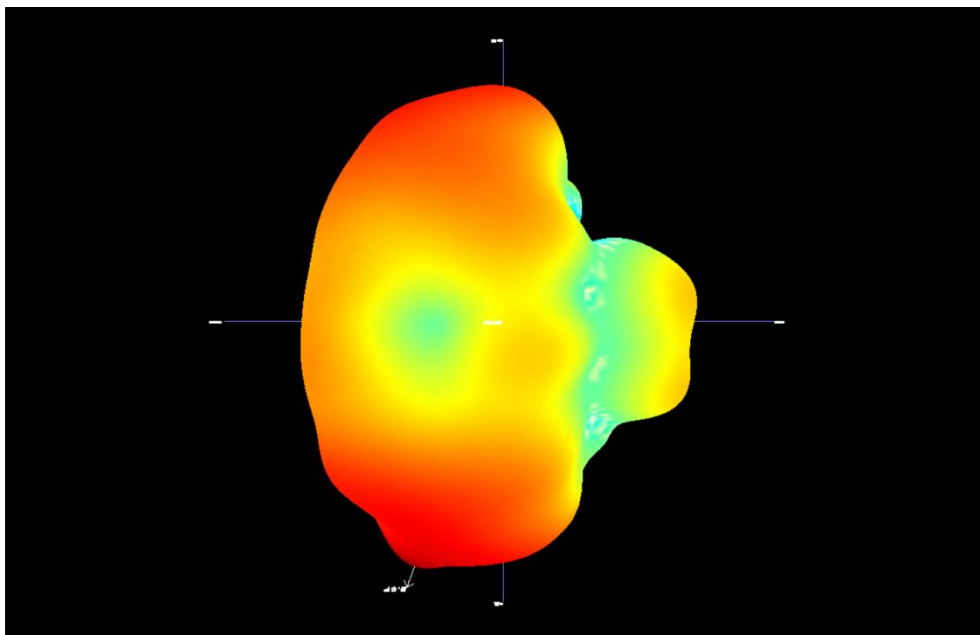
2. 3D Radiation Pattern



2400MHz



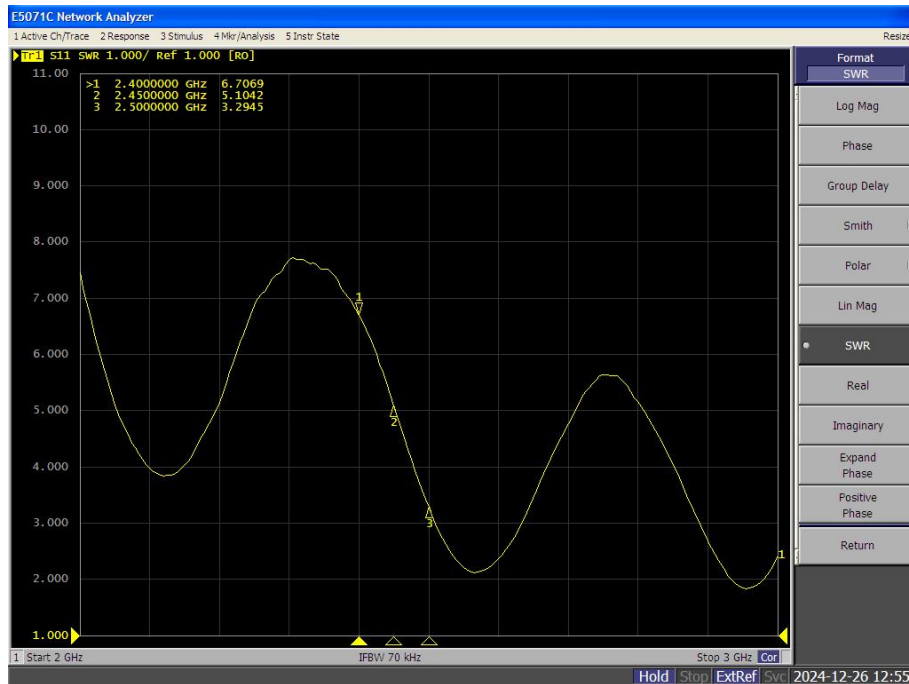
2450MHz



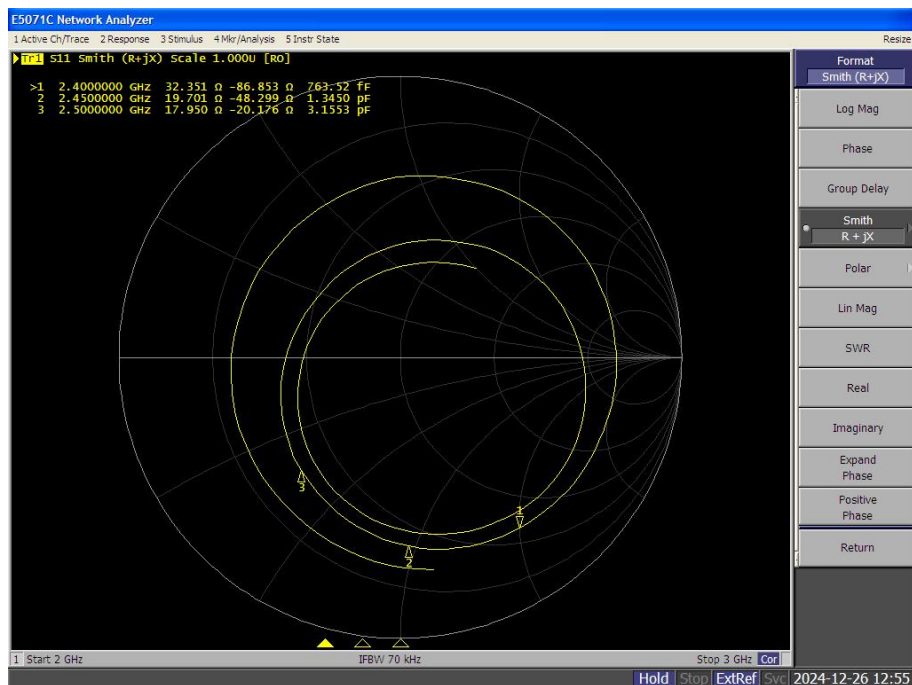
2500MHz



3. VSWR

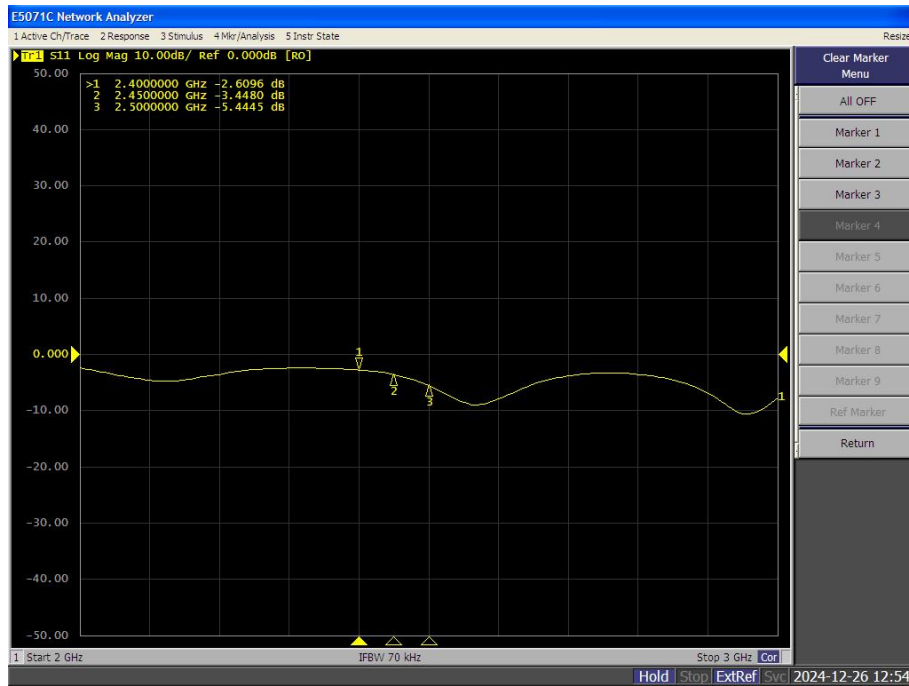


4. Impedance



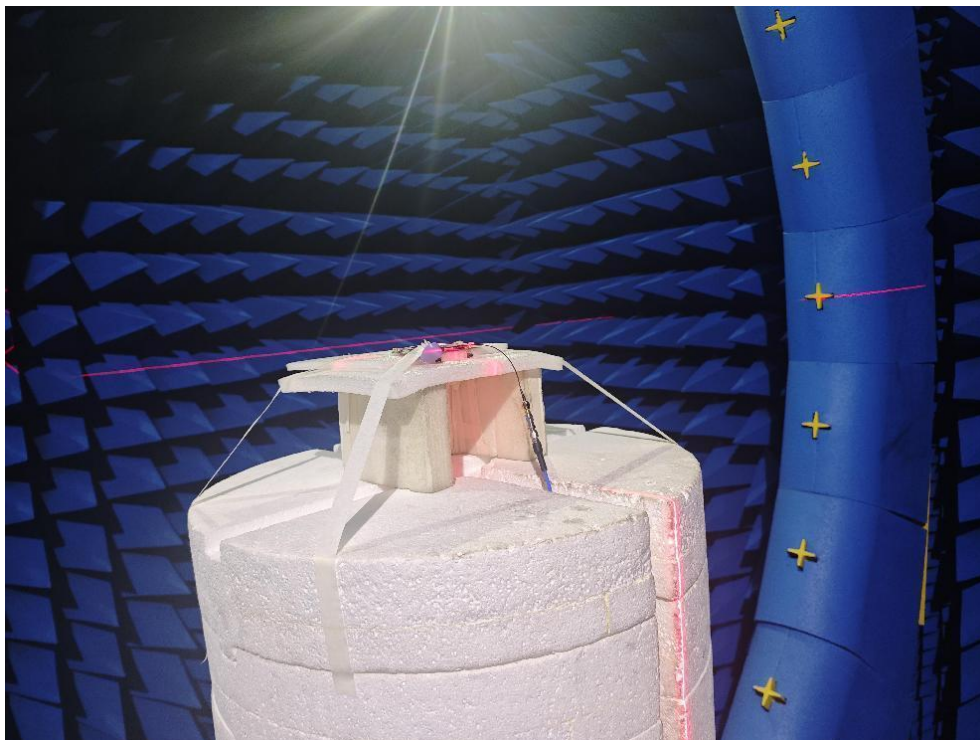
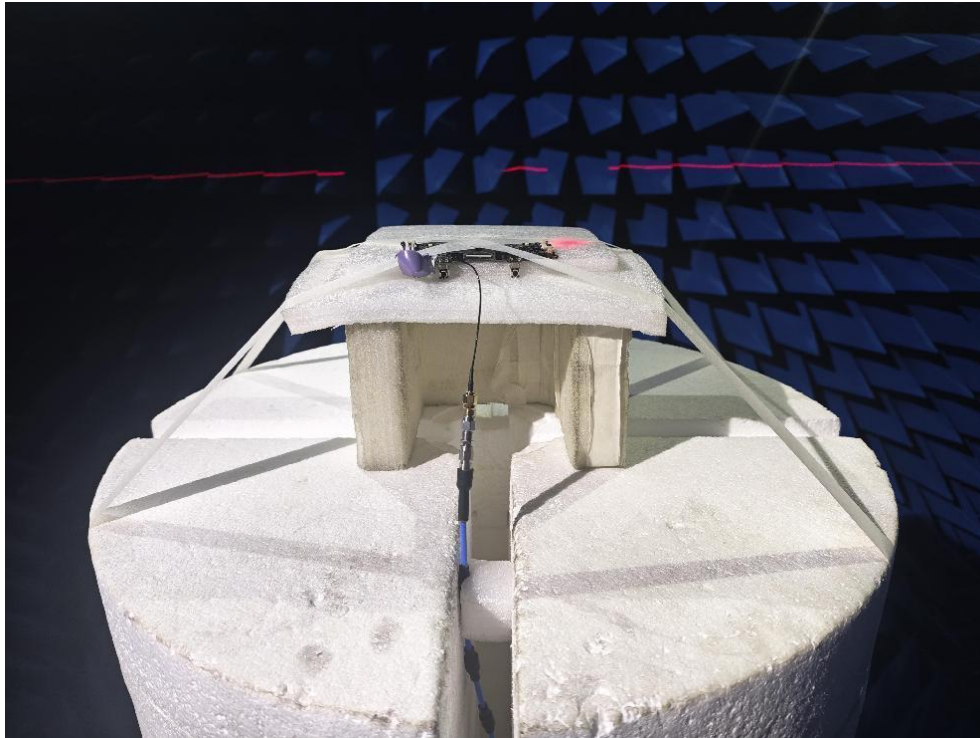


5. Return Loss

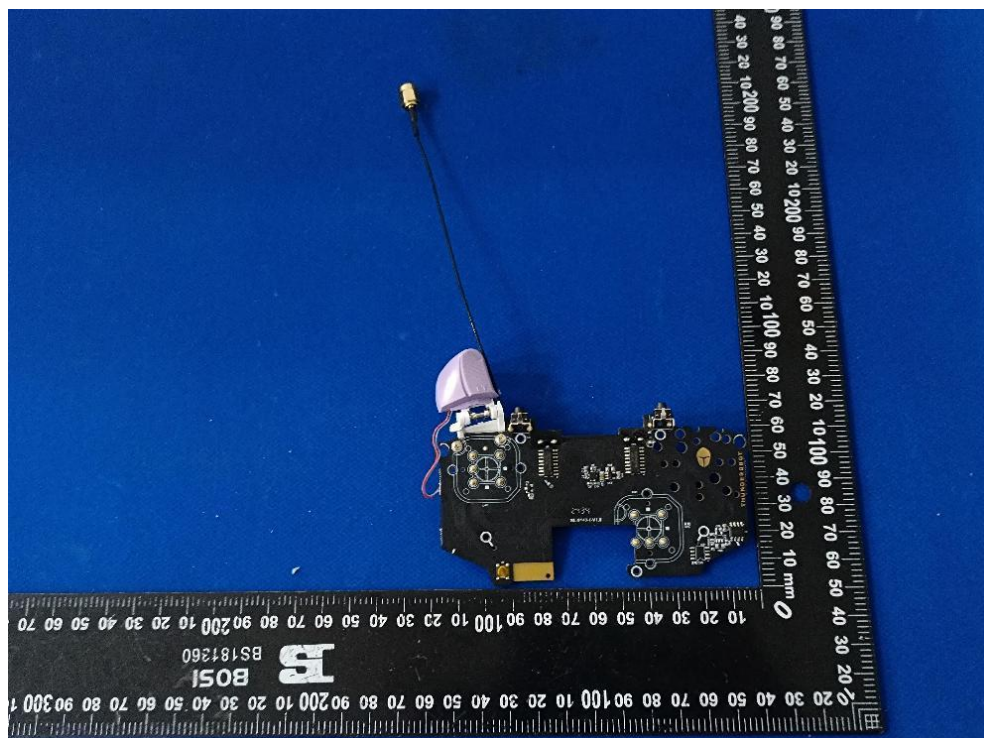
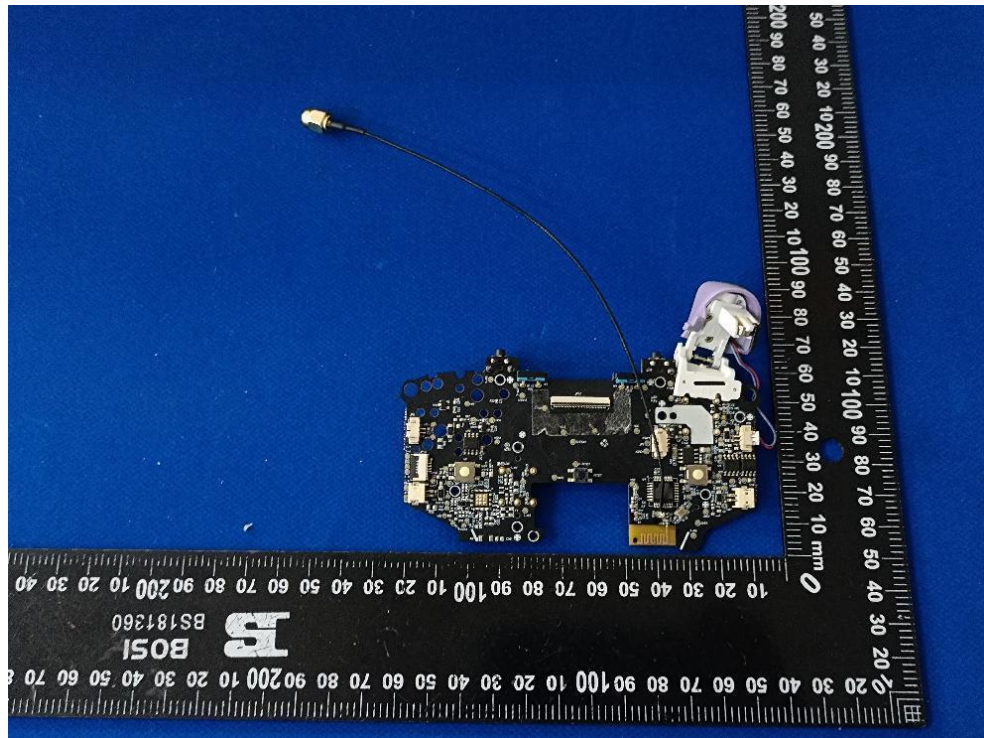


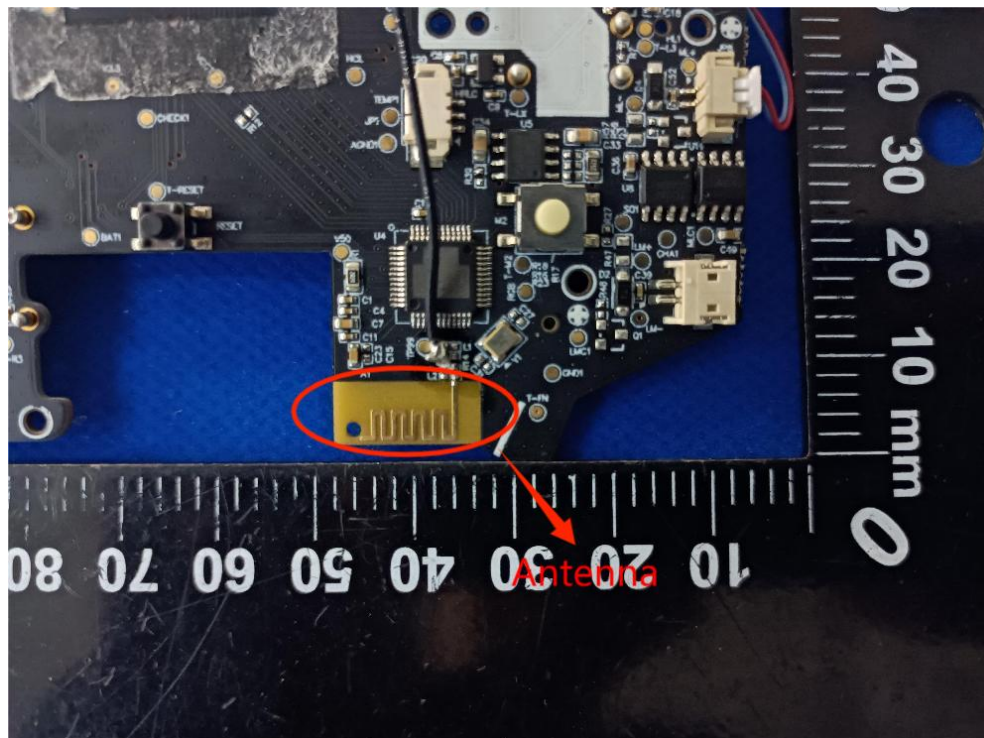
Annex C EUT Photos

1. Test environment



2. EUT







Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China

1.3 Test Equipments Utilized

NO.	Equipment Name	Serial NO.	Type	Manufa- cturer	Cal.Date	Cal.Due Date
1	Vector Network Analyzer	MY46214666	E5071C	Agilent	2024.02.02	2025.02.01
2	OTA Chamber	N/A	SG24	Satimo	2022.01.17	2025.01.16

1.4 Test Software Utilized

NO.	Software Name	Serial NO.	Version	Manufacturer
1	SatEnv	N/A	2.0.1.5 build 12	Satimo
2	SPM	N/A	1.11	Satimo

————— END OF REPORT —————