



REPORT No.: SZ25080459E01

TEST REPORT

APPLICANT : Dongguan Kingsheng Electronics & Technology Co., Ltd

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

MODEL NAME : SL-9144

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2025-08-29

TEST DATE : 2025-08-29

ISSUE DATE : 2025-09-02

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Chi Shide(Supervisor)

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2025-09-02	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	N/A
Frequency	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

Notes: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

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.

2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	-3.17
2410	-2.93
2420	-2.83
2430	-2.70
2440	-2.66
2450	-2.96
2460	-2.74
2470	-2.78
2480	-2.62
2490	-2.54
2500	-2.38

2.4.2. Efficiency

Frequency (MHz)	Efficiency (%)
2400	19.81
2410	20.28
2420	19.83
2430	19.53
2440	19.89
2450	19.58
2460	20.27
2470	20.12
2480	20.41
2490	20.66
2500	21.31



2.4.3.Return Loss

Frequency (MHz)	Return Loss(dB)
2400	-2.62
2450	-2.93
2500	-3.19

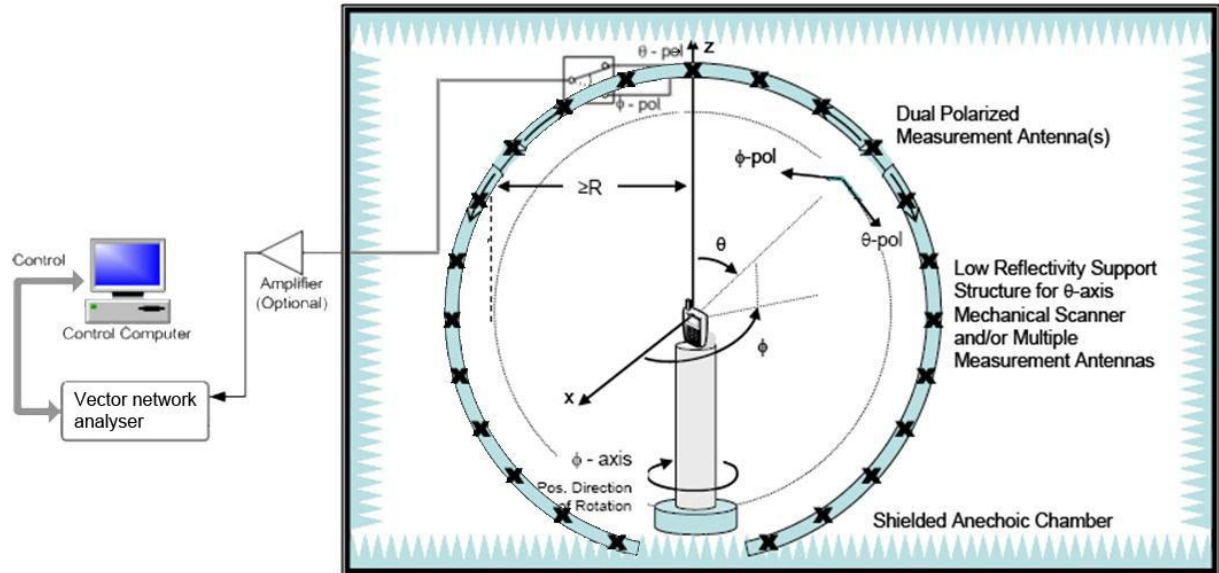
2.4.4.VSWR

Frequency (MHz)	VSWR
2400	6.66
2450	5.97
2500	5.50

2.4.5.Impedance

Frequency (MHz)	Impedance(Ω)
2400	21.73
2450	15.72
2500	12.48

Annex A Test Setup Photos

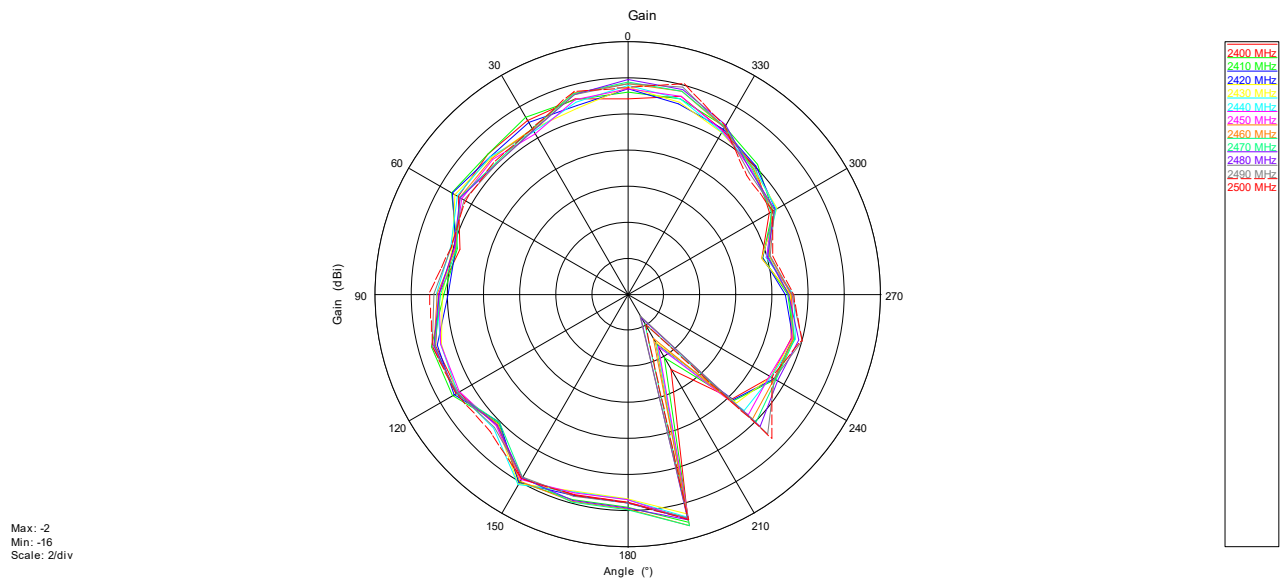




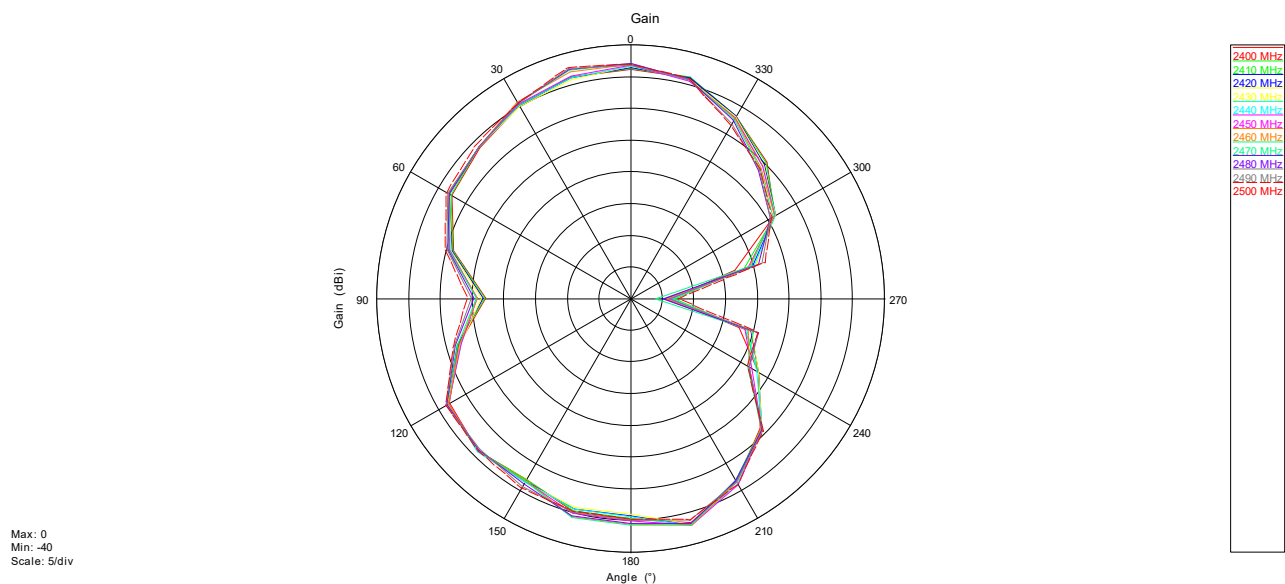
Annex B Figures

1. 2D Radiation Pattern

Phi=0°



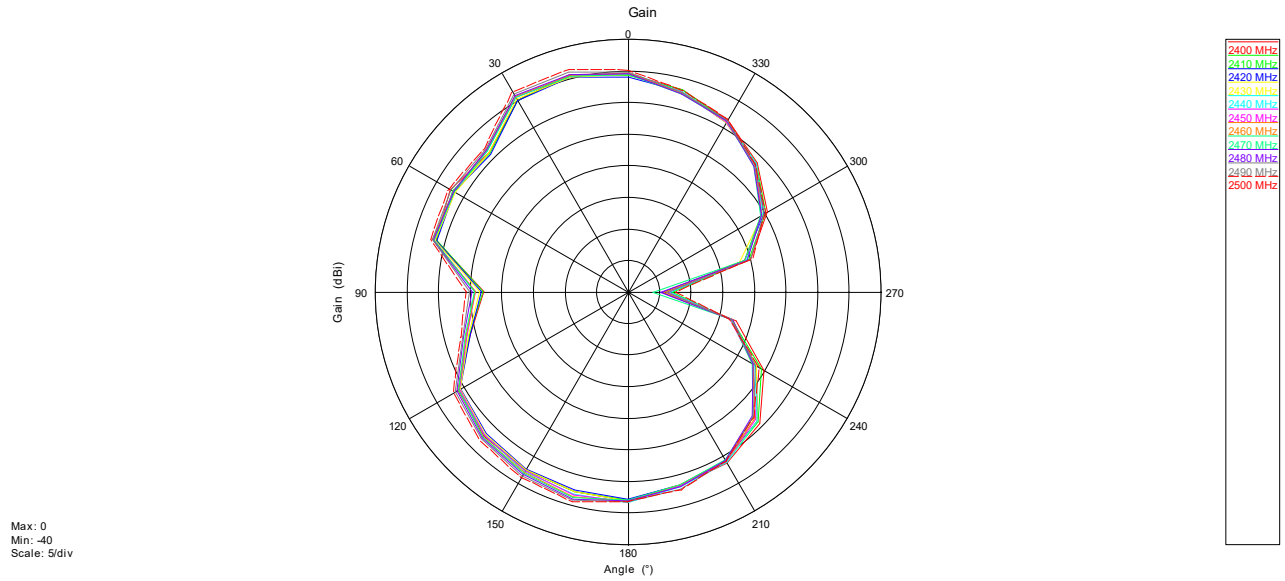
Phi=90°



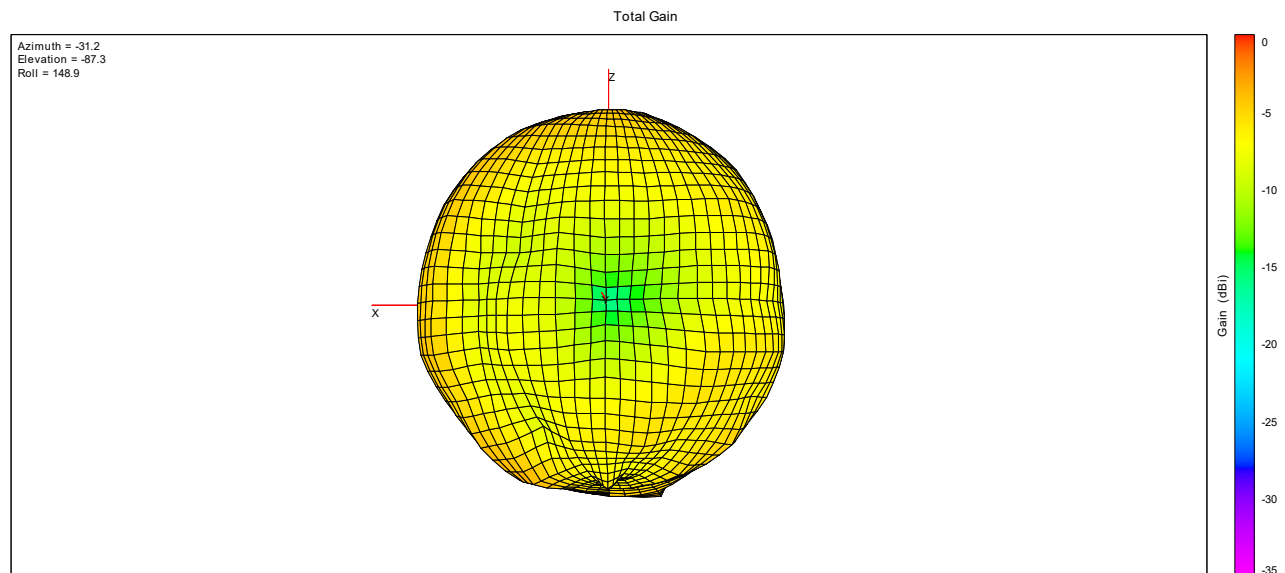


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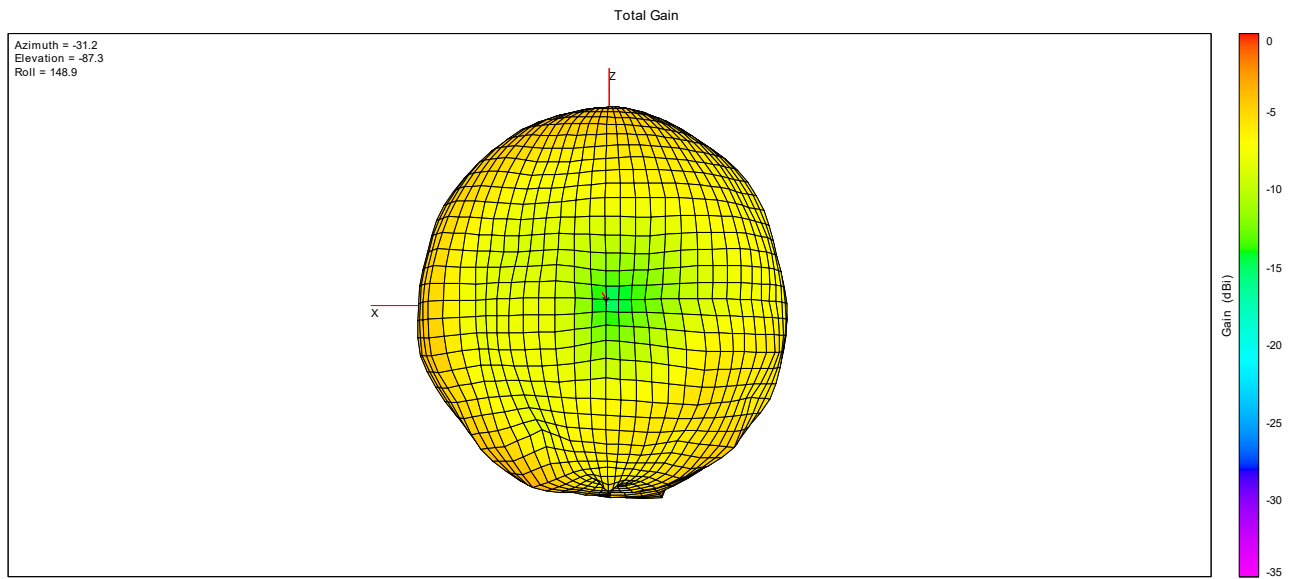
Theta=90°



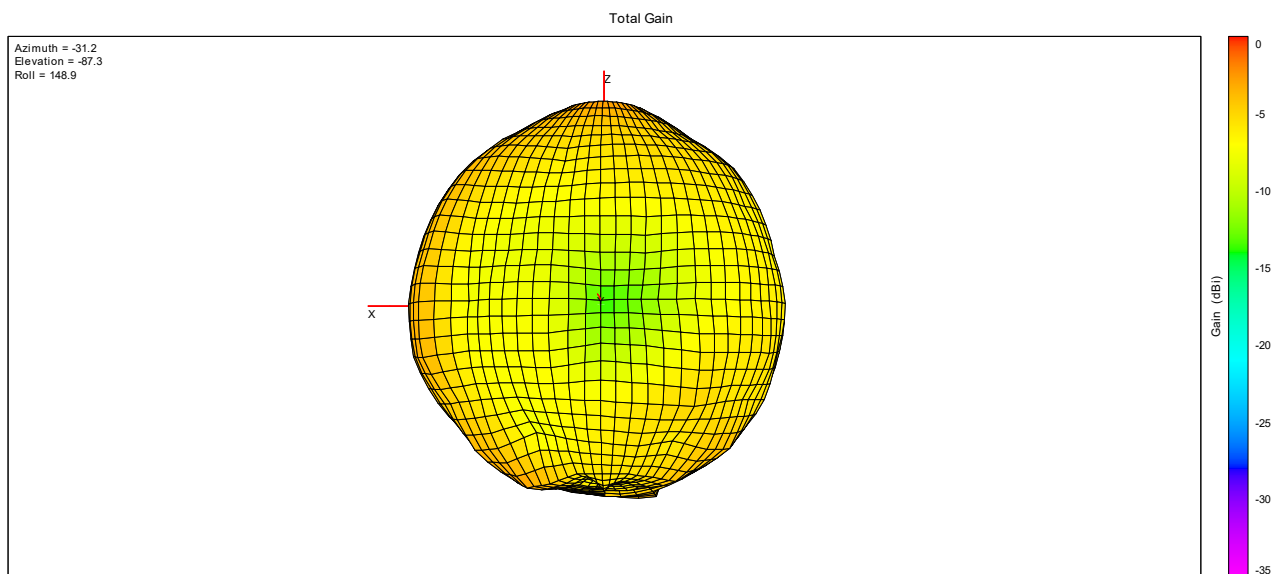
2. 3D Radiation Pattern



2400MHz



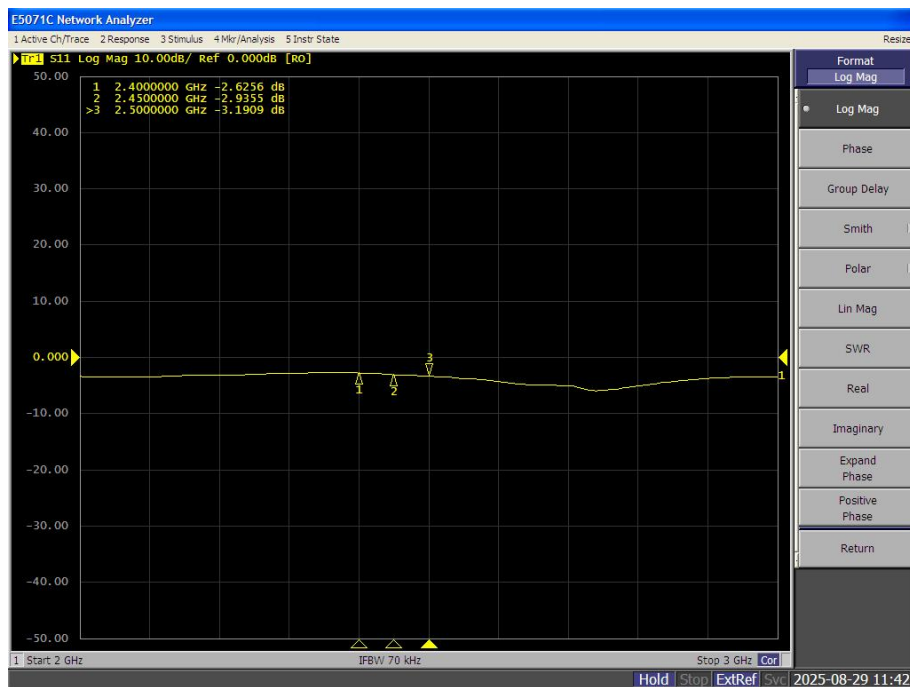
2450MHz



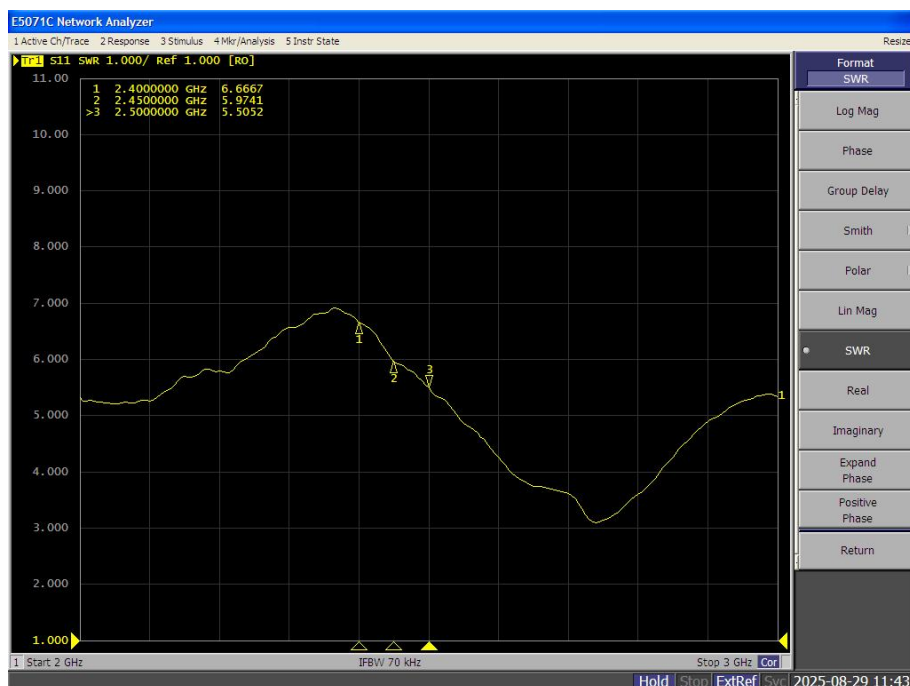
2500MHz



3. Return Loss

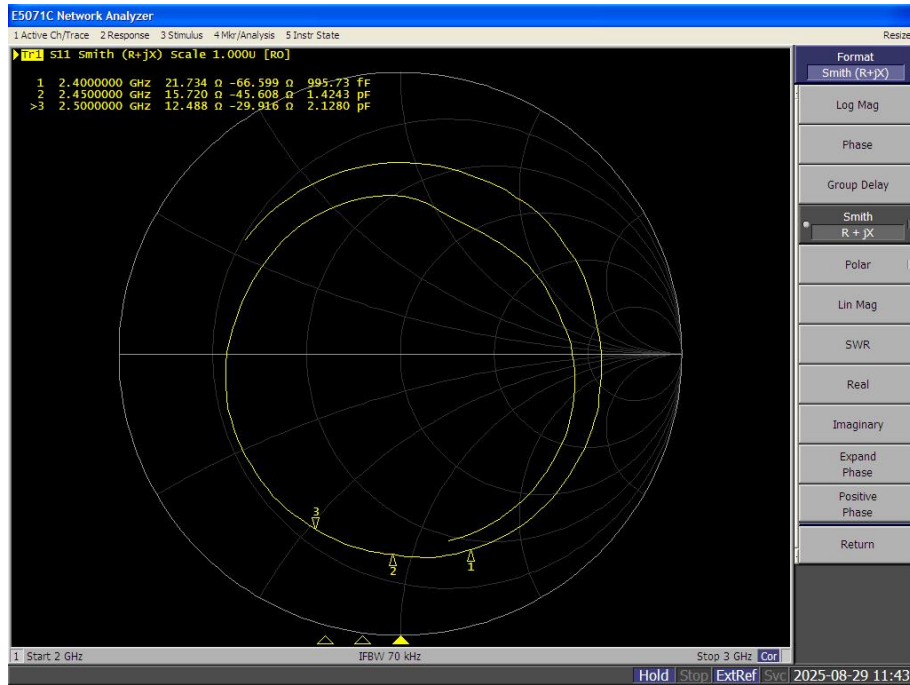


4. VSWR



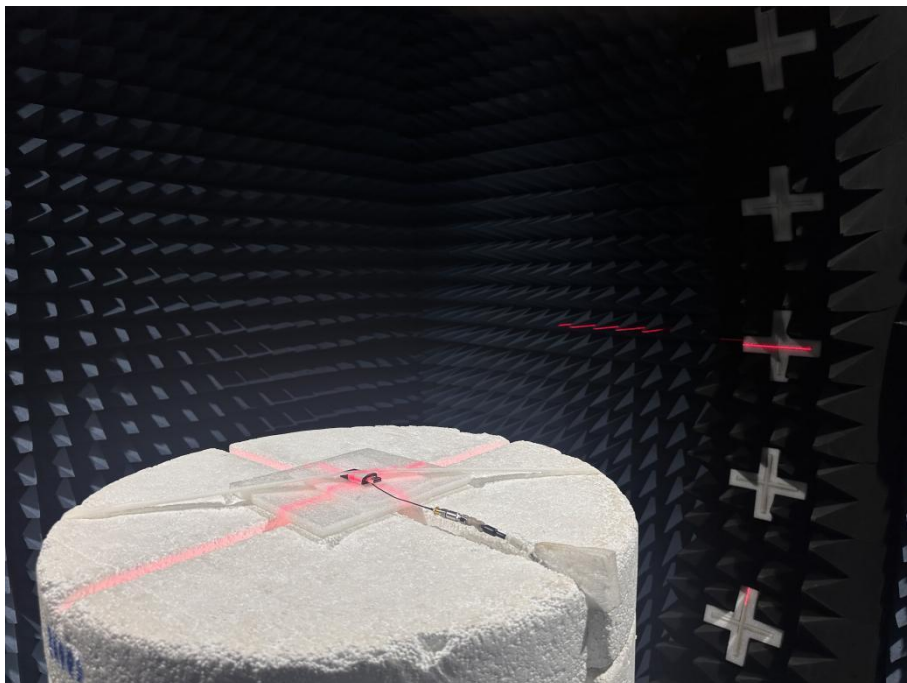


5. Impedance

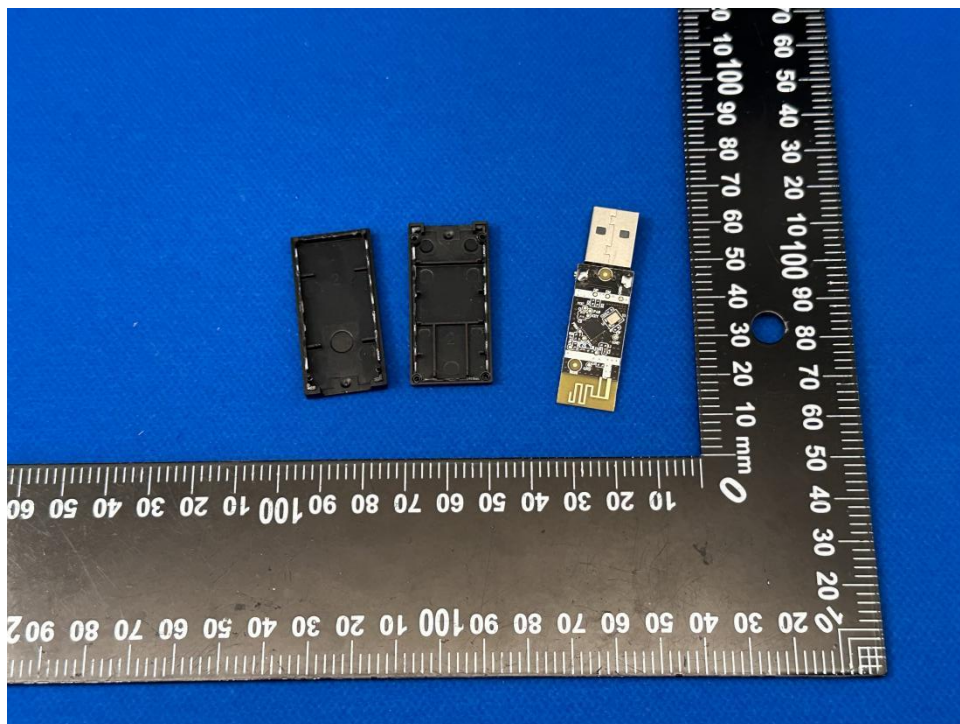
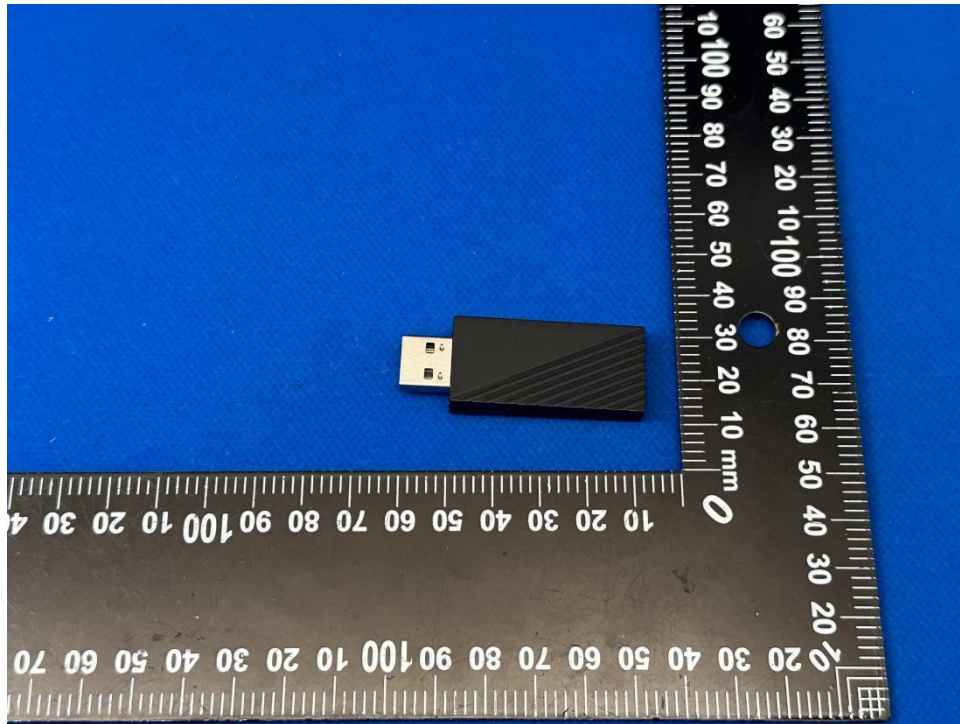


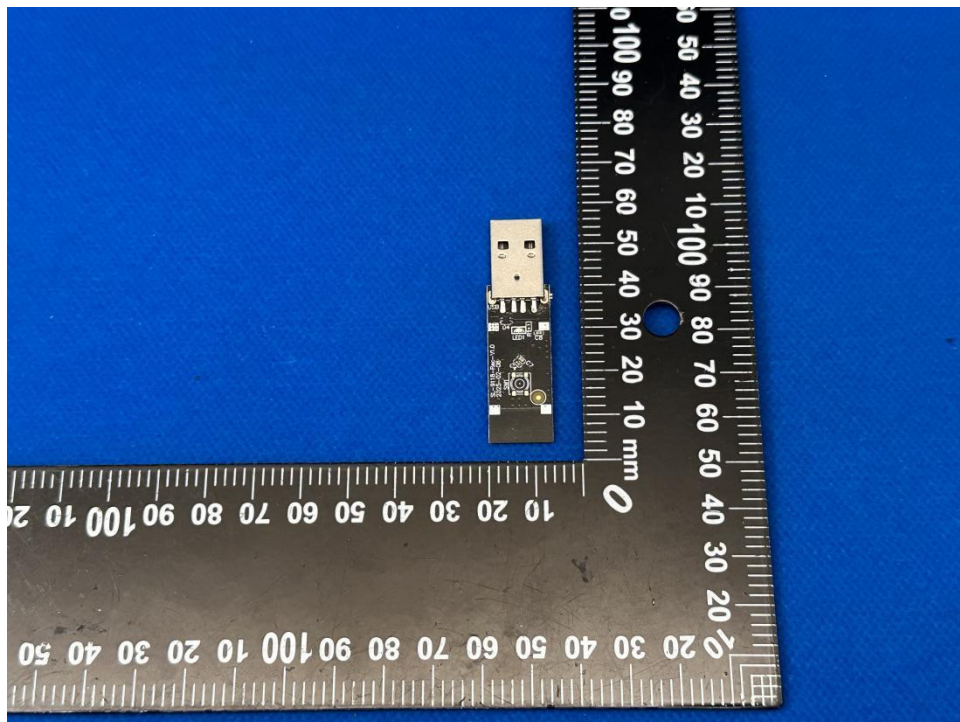
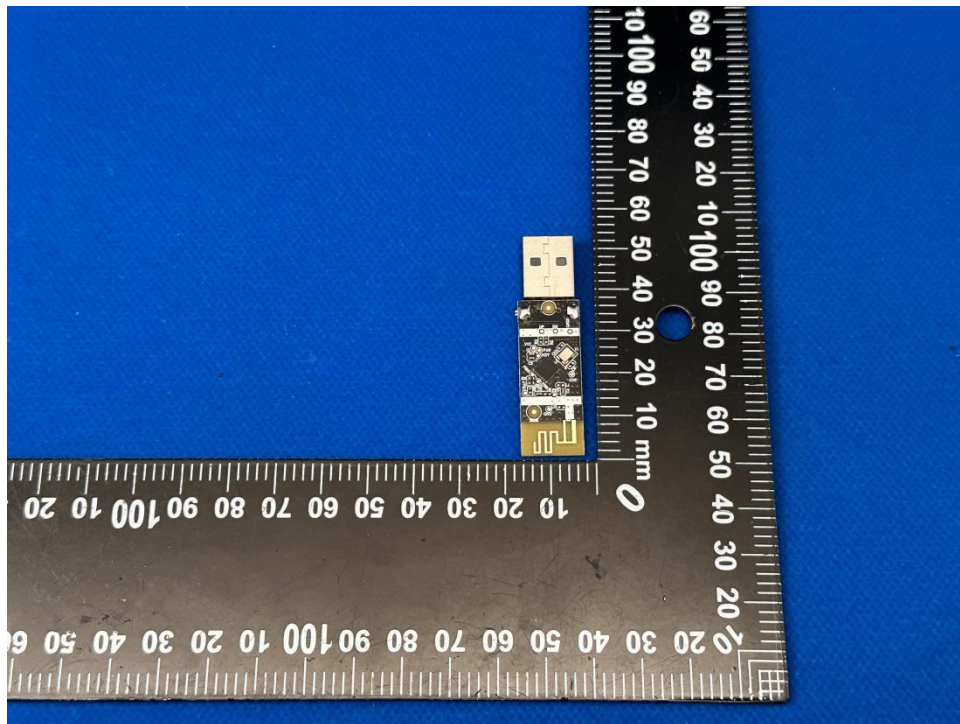
Annex C EUT Photos

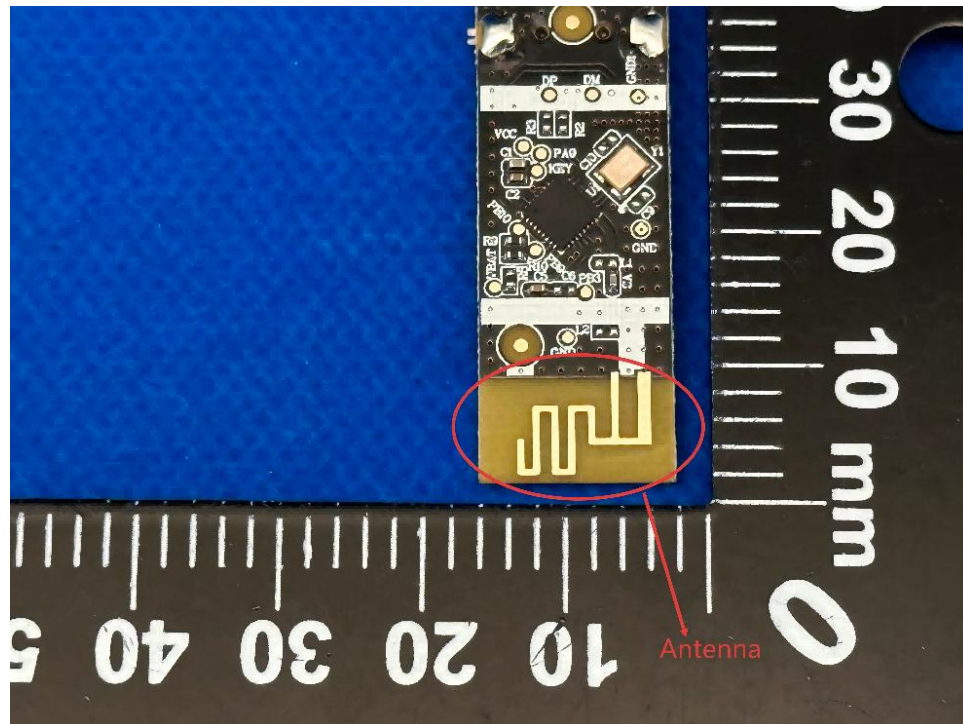
1. Test environment



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	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2025.05.13	2026.05.12
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29

1.4 Test Software Utilized

No.	Software Name	Serial No.	Version	Manufacturer
1	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS

————— END OF REPORT —————