TEST REPORT

APPLICANT	:	Sichuan Green Science & Technology Co., Ltd.
PRODUCT NAME	:	FPC Antenna
MODEL NAME	:	Ant-GS-AC48-B02
TRADE NAME	:	GERUNSAISI
BRAND NAME	:	N/A
STANDARD(S)	:	IEEE Std 149-2021
RECEIPT DATE	:	2024-02-27
TEST DATE	:	2024-02-27
ISSUE DATE	:	2024-03-13

Edited by: Fang Jinshan(Rapporteur)

Approved by: Chi Shide(Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2024-03-13	First edition

1.Technical Information

Note: Provide by applicant.

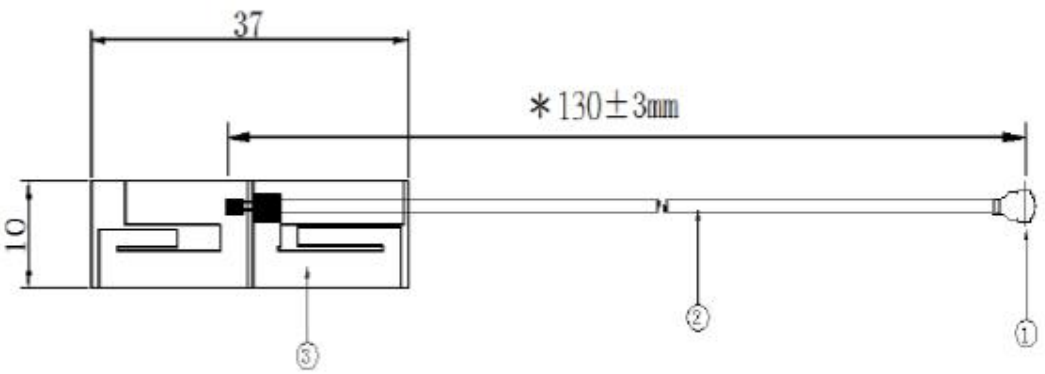
1.1. Applicant and Manufacturer Information

Applicant:	Sichuan Green Science & Technology Co., Ltd.
Applicant Address:	Room 401, Block B, Building 11, Lide Times, No. 17, Wuxing 2nd Road, Chengdu, Sichuan, China
Manufacturer:	Sichuan Green Science & Technology Co., Ltd.
Manufacturer Address:	Room 401, Block B, Building 11, Lide Times, No. 17, Wuxing 2nd Road, Chengdu, Sichuan, China

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	2400MHz-2500MHz, 4900MHz-5900MHz
IMEI	N/A
Sample No.	1#

Dimensions:



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

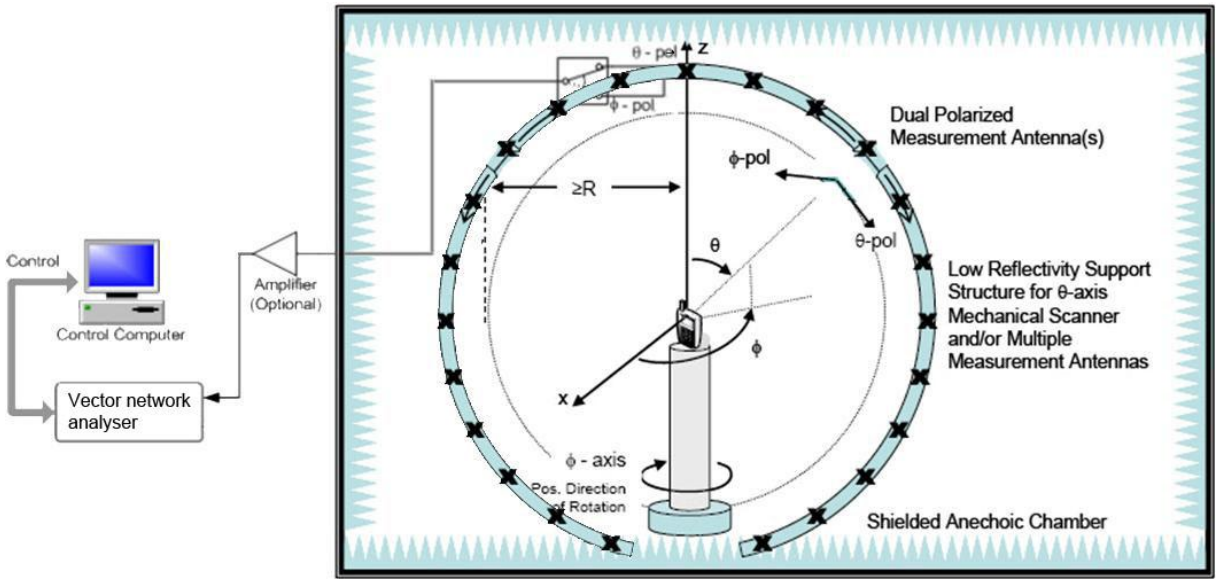
Frequency (MHz)	Gain(dBi)
2400	3.52
2410	3.56
2420	3.38
2430	3.19
2440	3.04
2450	3.08
2460	3.13
2470	3.15
2480	3.26
2490	3.16
2500	3.10
4900	3.43
4950	3.56
5000	4.14
5050	4.39
5100	4.54
5150	4.12
5200	3.61
5250	2.99
5300	2.56
5350	2.30
5400	1.95
5450	1.67
5500	2.37
5550	2.34
5600	2.90
5650	2.96
5700	3.77
5750	3.63

5800	3.68
5850	2.95
5900	2.61

2.4.2.VSWR

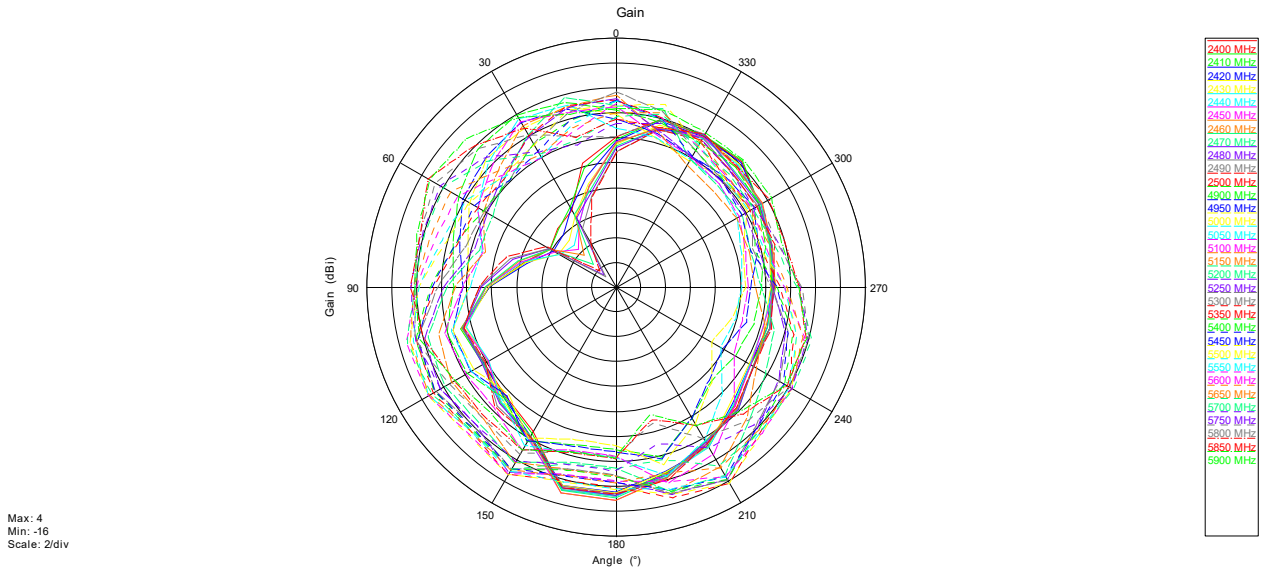
Frequency (MHz)	VSWR
2400-2500	2.13
4900-5900	3.13

Annex A Test Setup Photos

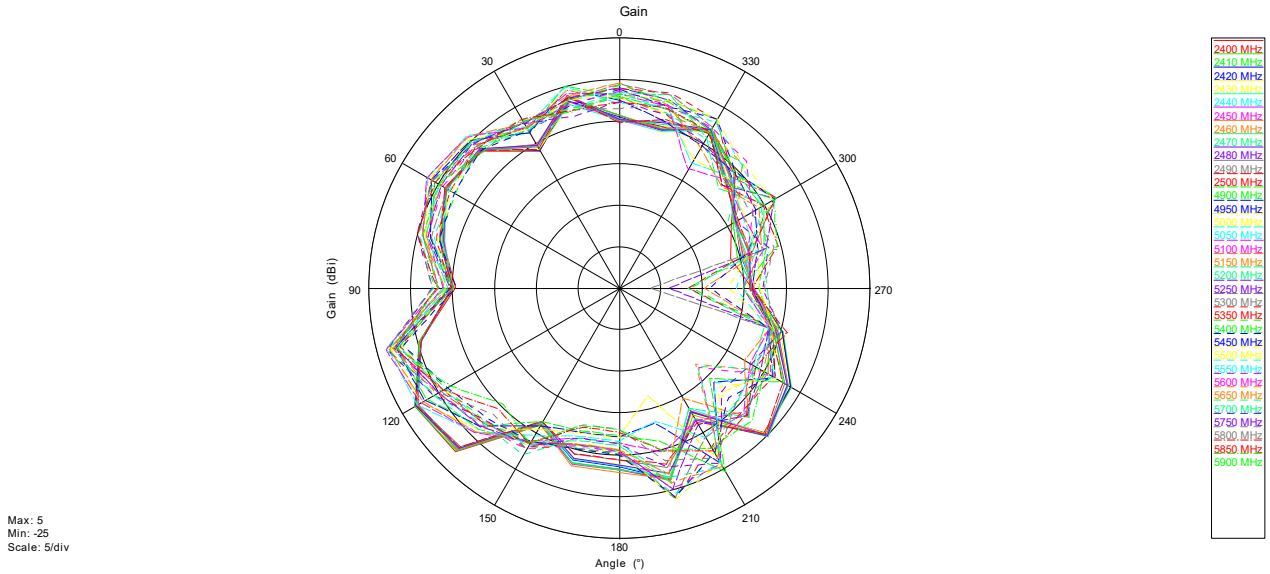


Annex B Figures

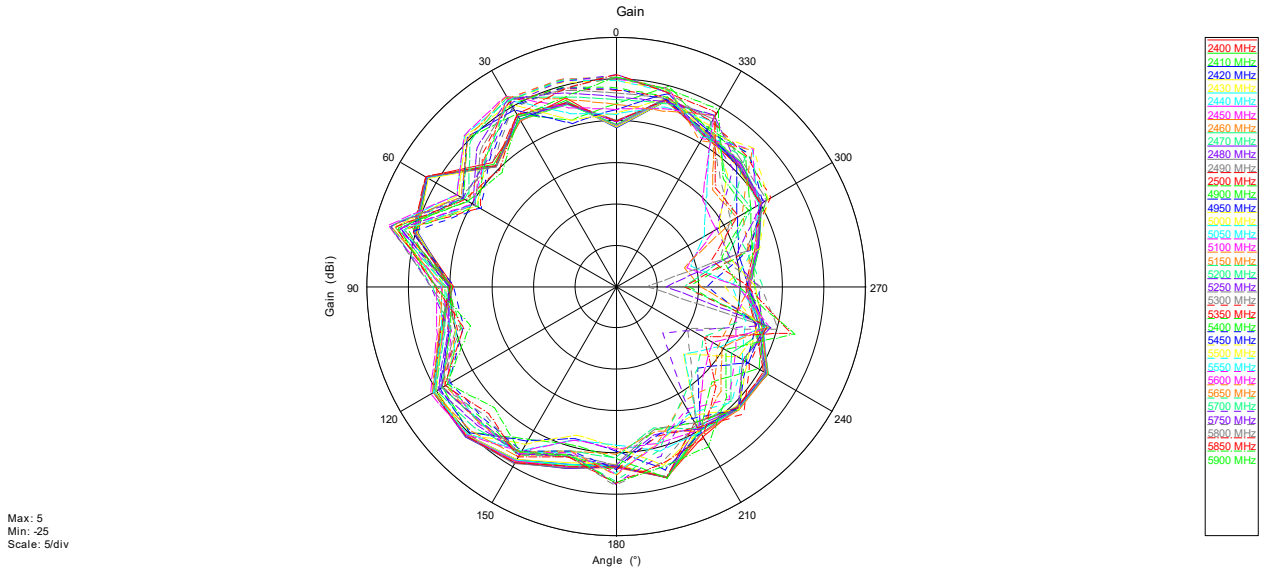
1. 2D Radiation Pattern



Phi=0°

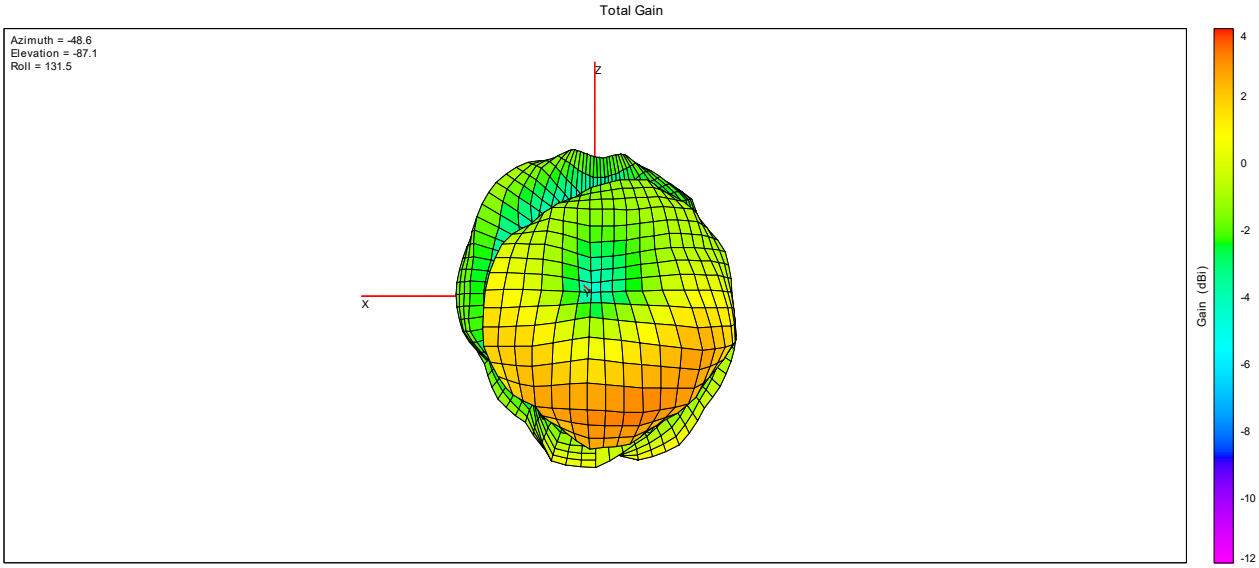


Phi=90°

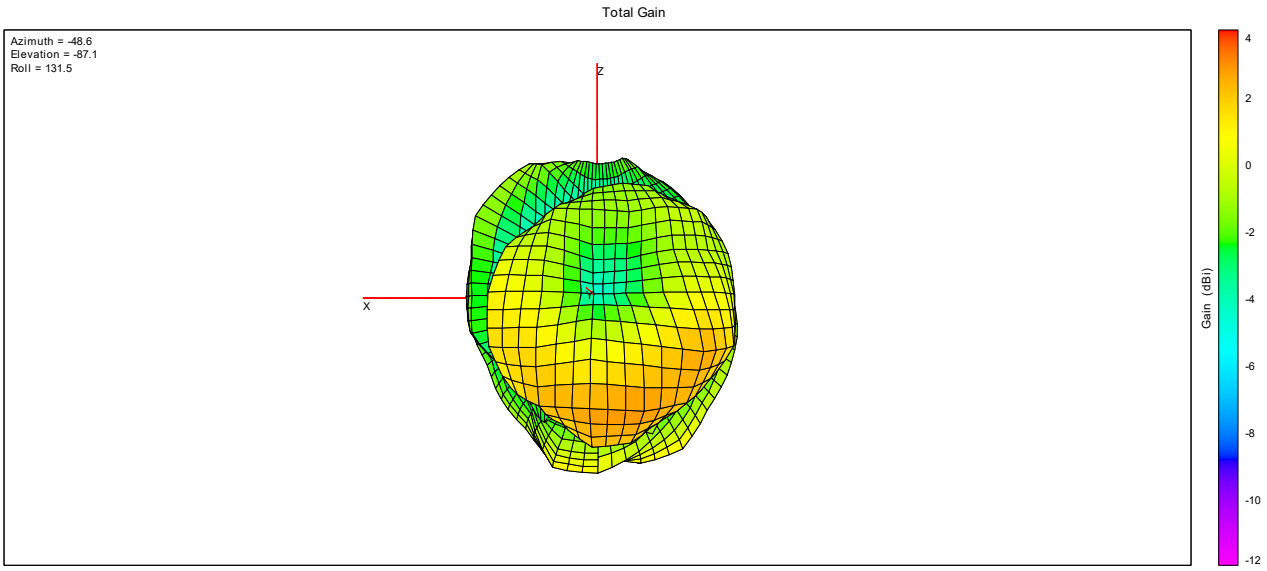


Theta=90°

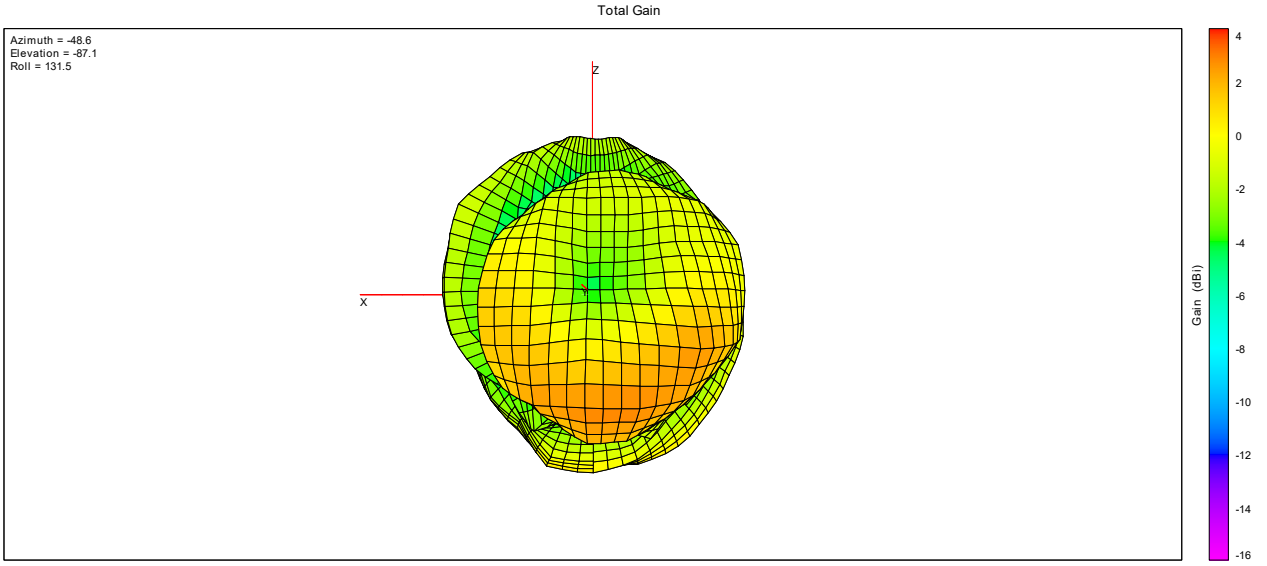
2. 3D Radiation Pattern



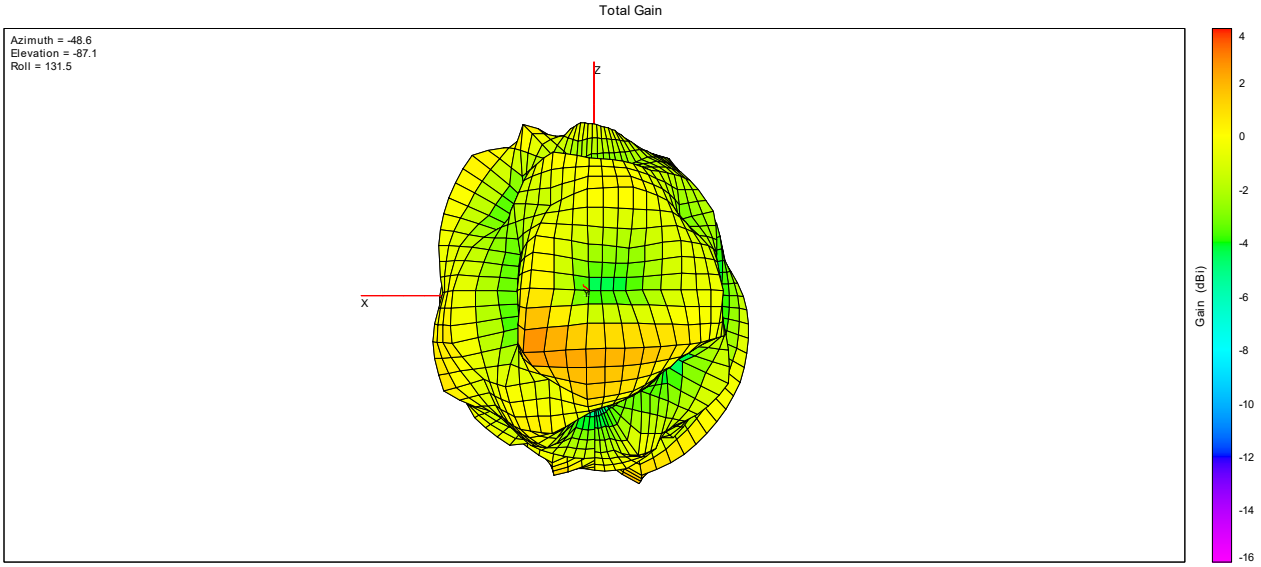
2400MHz



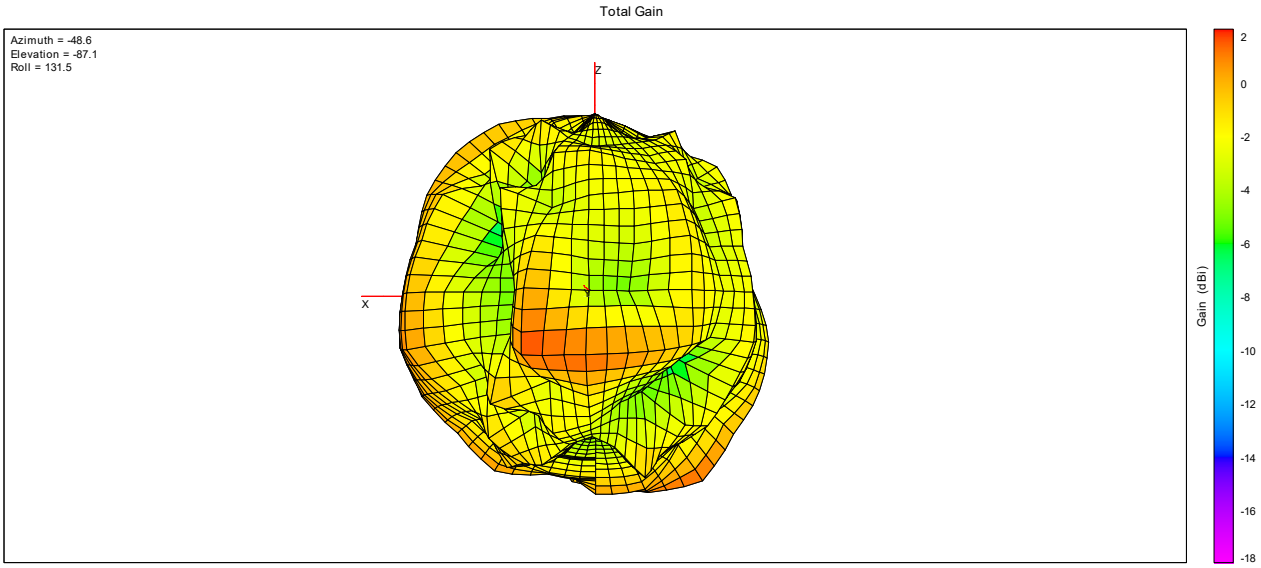
2450MHz



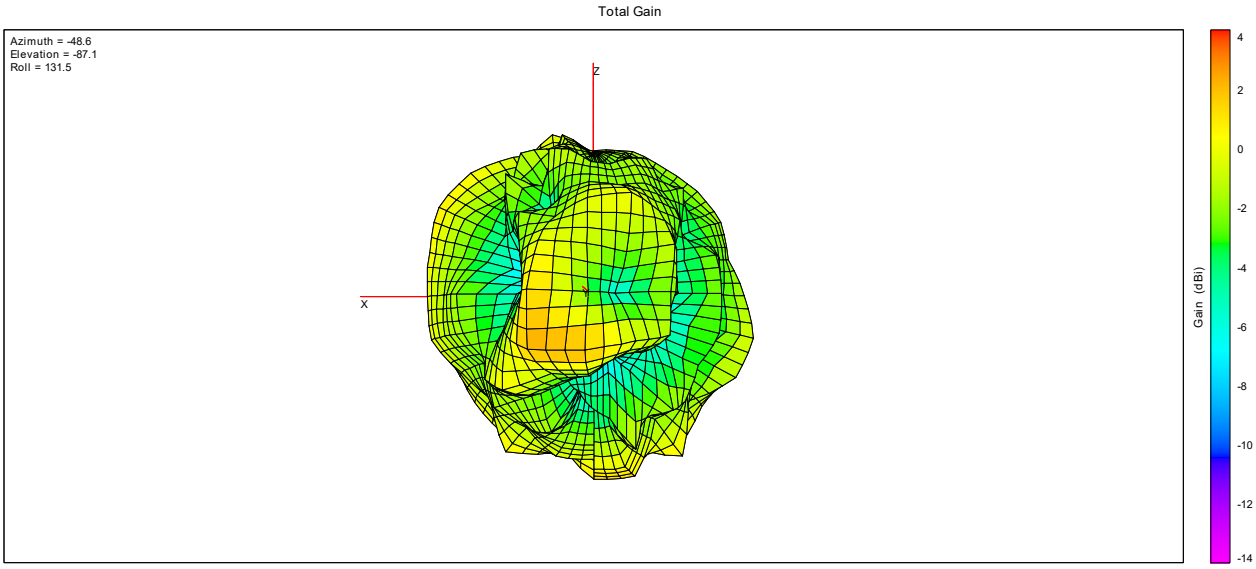
2500MHz



4900MHz

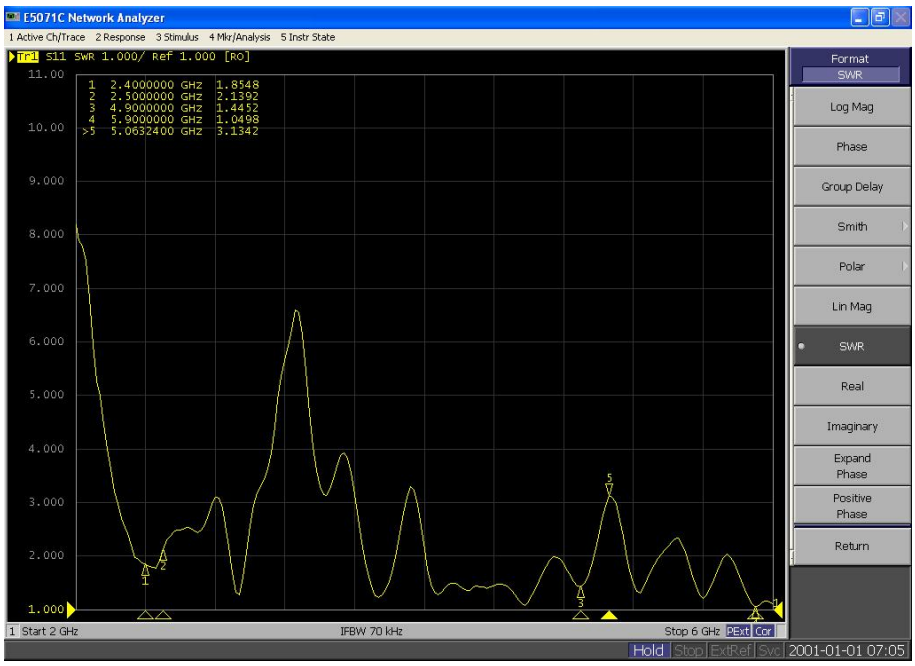


5400MHz



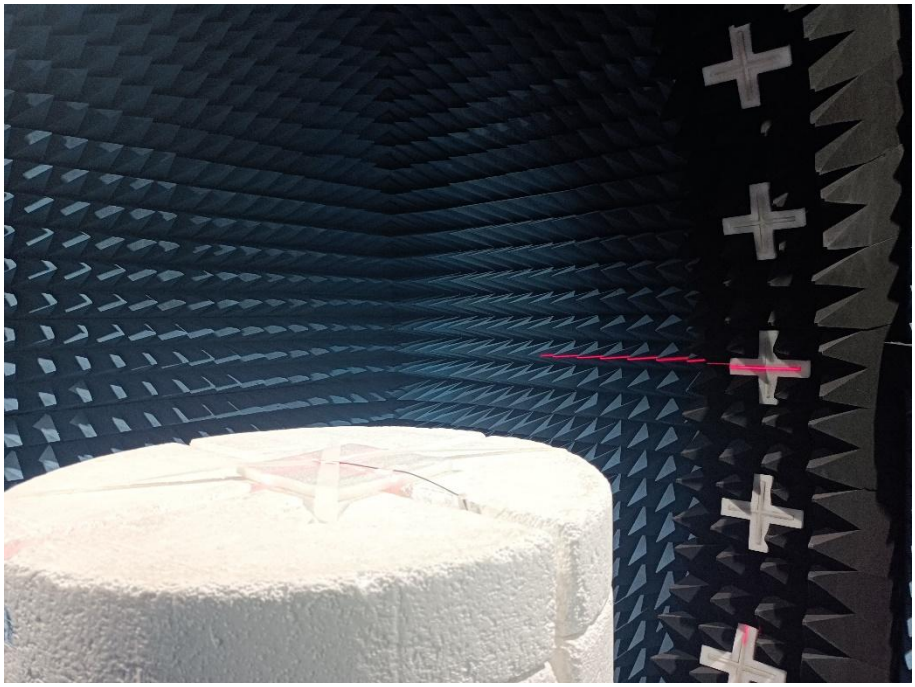
5900MHz

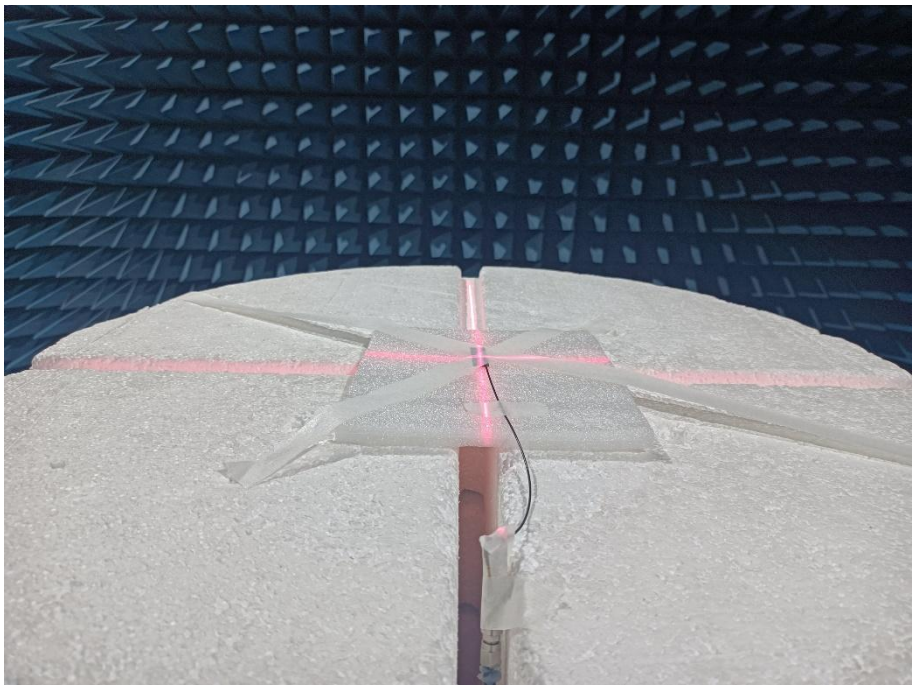
3. VSWR



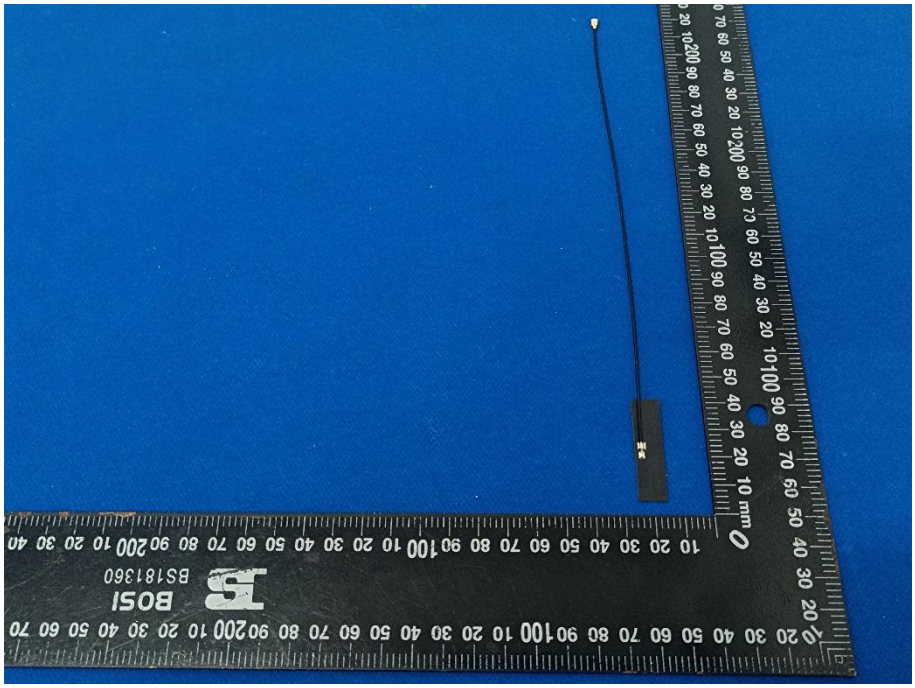
Annex C EUT Photos

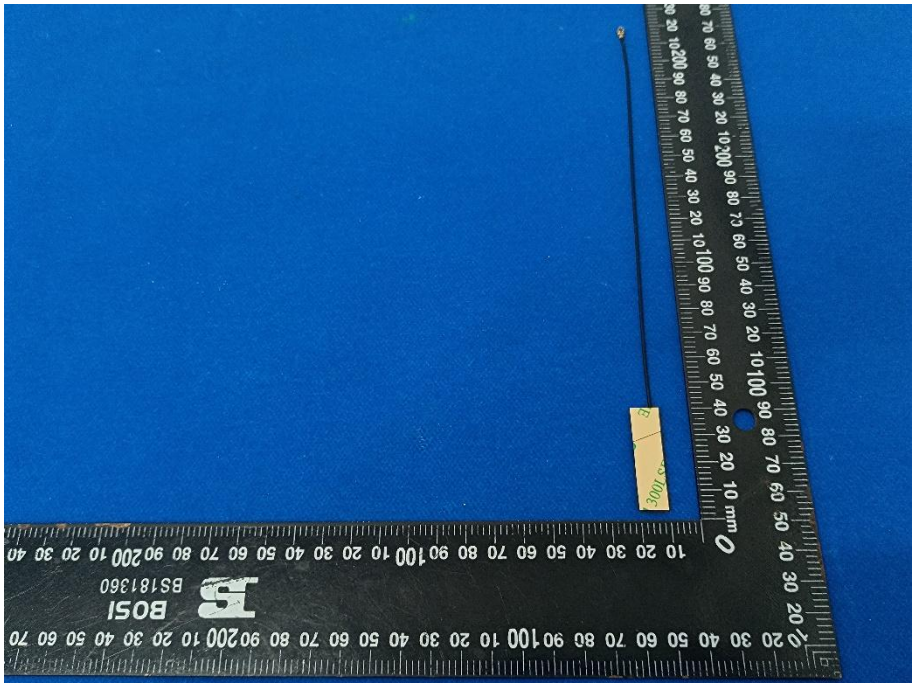
1. Test environment

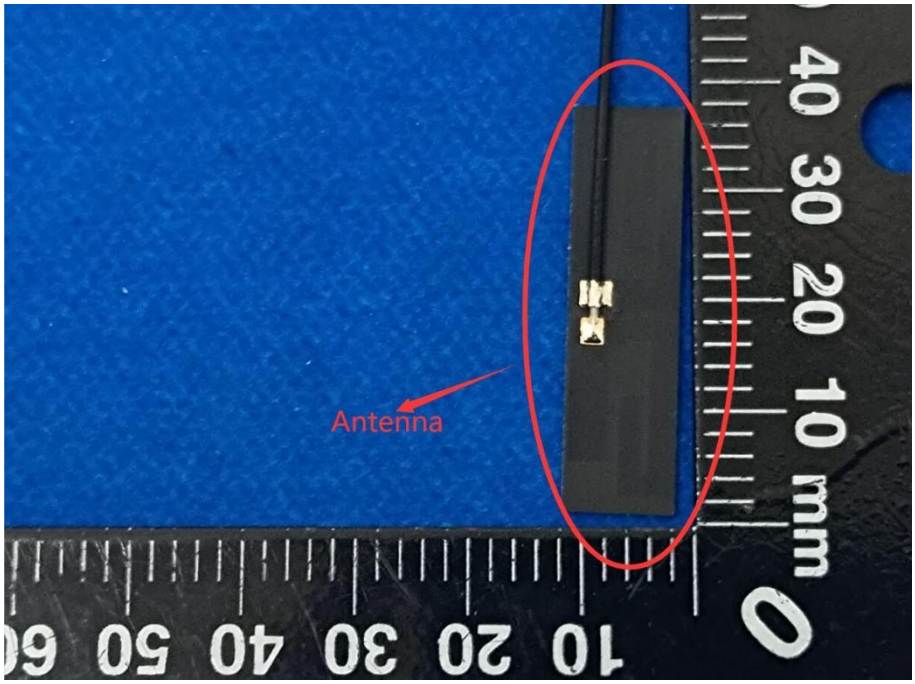




2. EUT






Antenna
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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.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2023.06.21	2024.06.20
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

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