



REPORT No.: SZ24020143E01

TEST REPORT

APPLICANT : Zhongshan Xingli Electrical Appliance Factory

PRODUCT NAME : 2.4G remote control

MODEL NAME : FAN-Light-C2.4GA

TRADE NAME :  **AONCIA**

BRAND NAME : AONCIA

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-02-27

TEST DATE : 2024-02-28

ISSUE DATE : 2024-03-05

Edited by:

Fang Jinshan(Rapporteur)

Approved by:

Chi Shide(Supervisor)

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2024-03-05	First edition

1. Technical Information

Note: Provide by applicant.

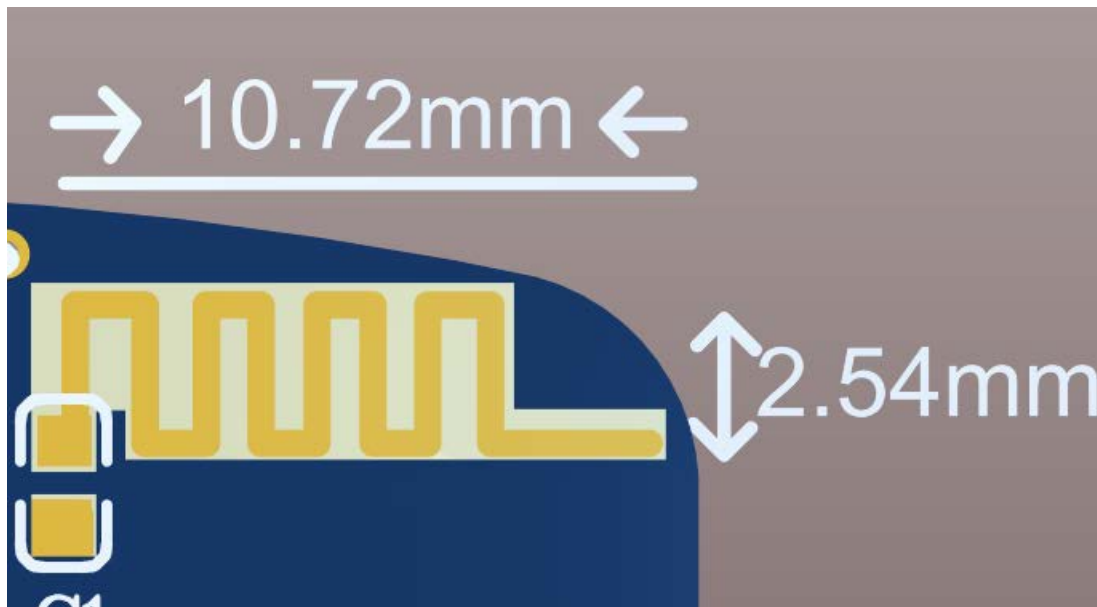
1.1. Applicant and Manufacturer Information

Applicant:	Zhongshan Xingli Electrical Appliance Factory
Applicant Address:	No. 5, 3rd Street, Shengfeng Dongpai West Road, Xiaolan Town, Zhongshan City
Manufacturer:	Zhongshan Xingli Electrical Appliance Factory
Manufacturer Address:	No. 5, 3rd Street, Shengfeng Dongpai West Road, Xiaolan Town, Zhongshan City

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	2400MHz-2500MHz
IMEI	N/A
Antenna type	PCB antenna
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.

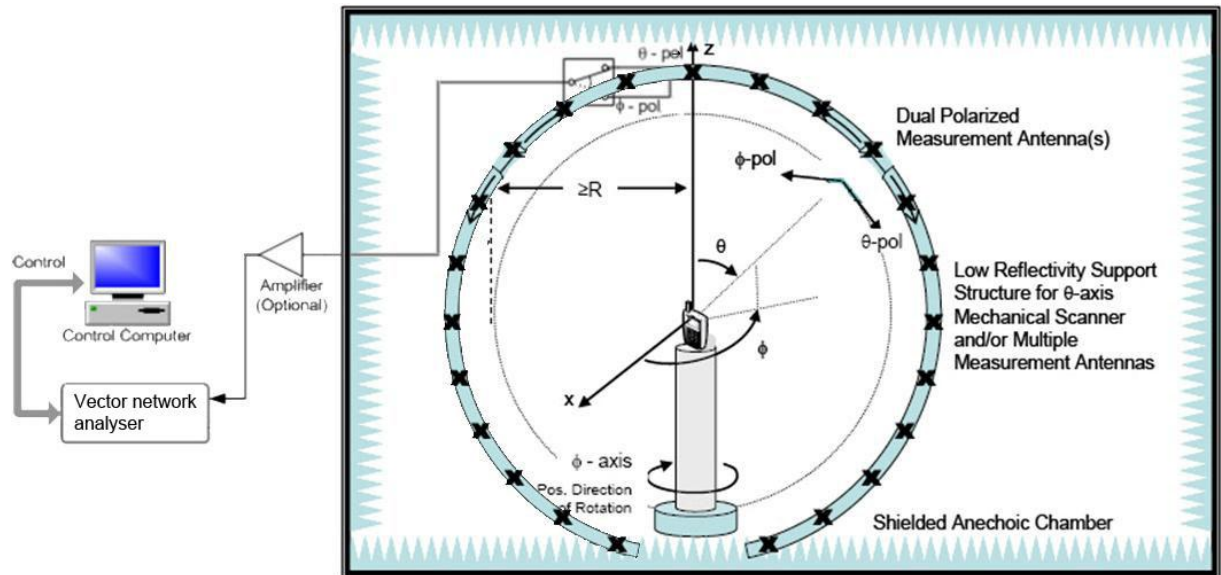


2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	-0.76
2410	-0.74
2420	-0.68
2430	-0.65
2440	-0.66
2450	-0.67
2460	-0.88
2470	-1.10
2480	-1.18
2490	-1.36
2500	-1.45

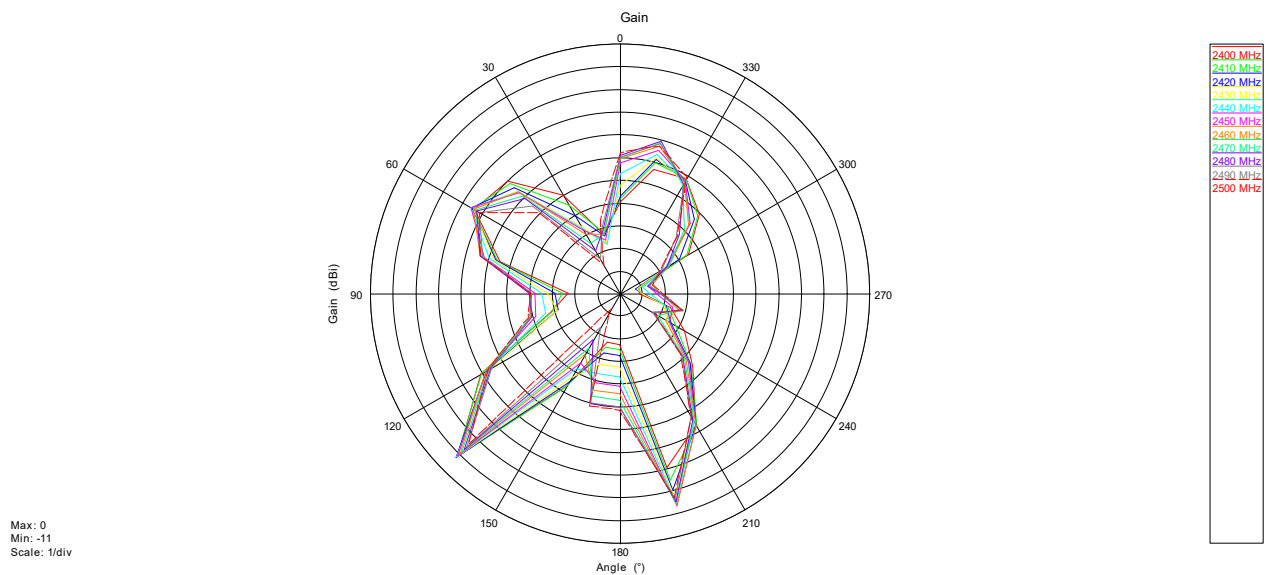
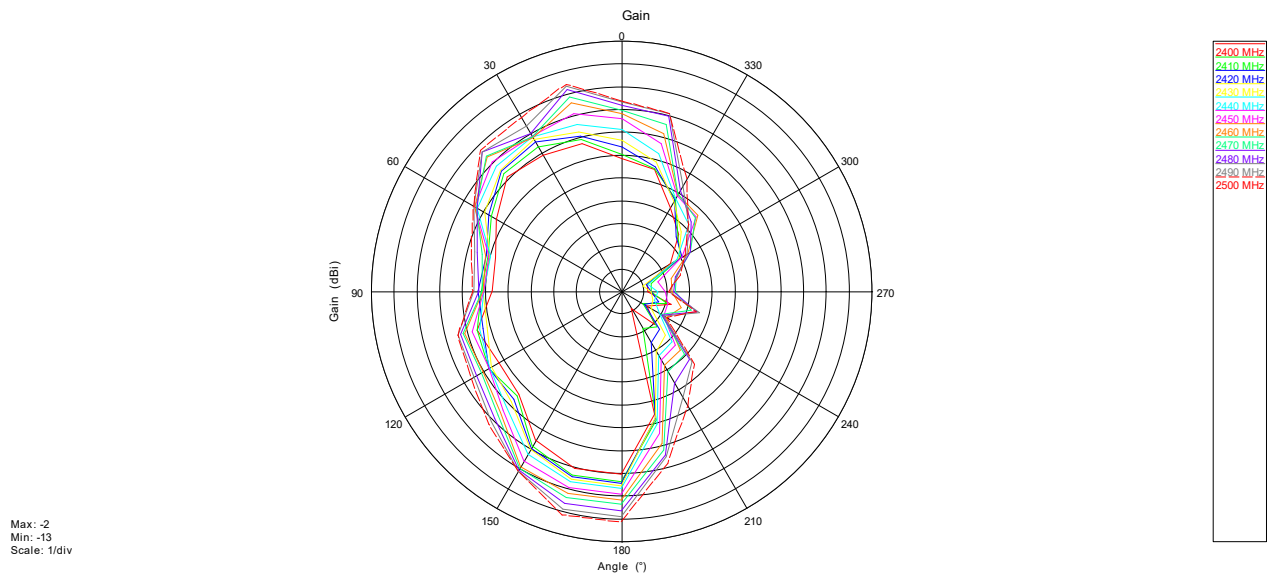
Annex A Test Setup Photos

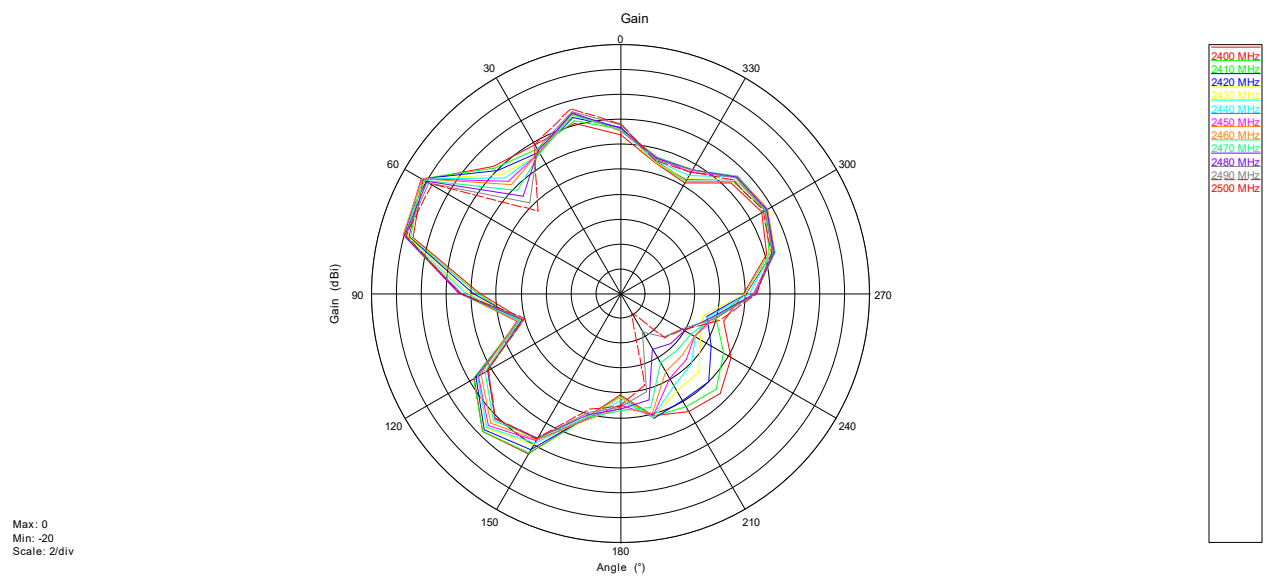




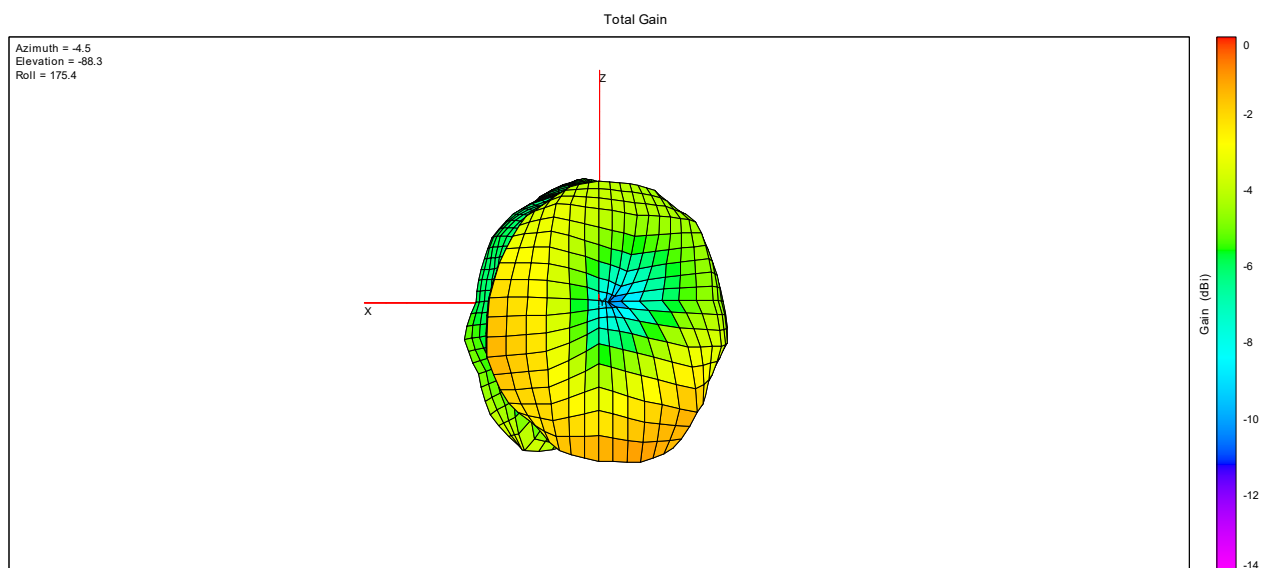
Annex B Figures

1. 2D Radiation Pattern

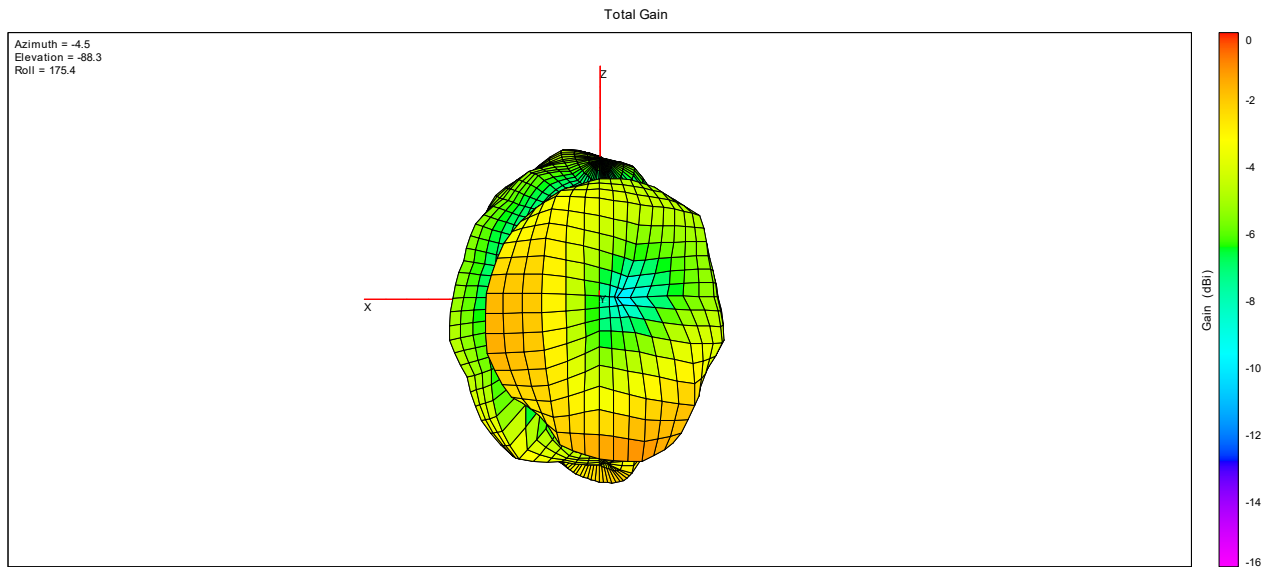




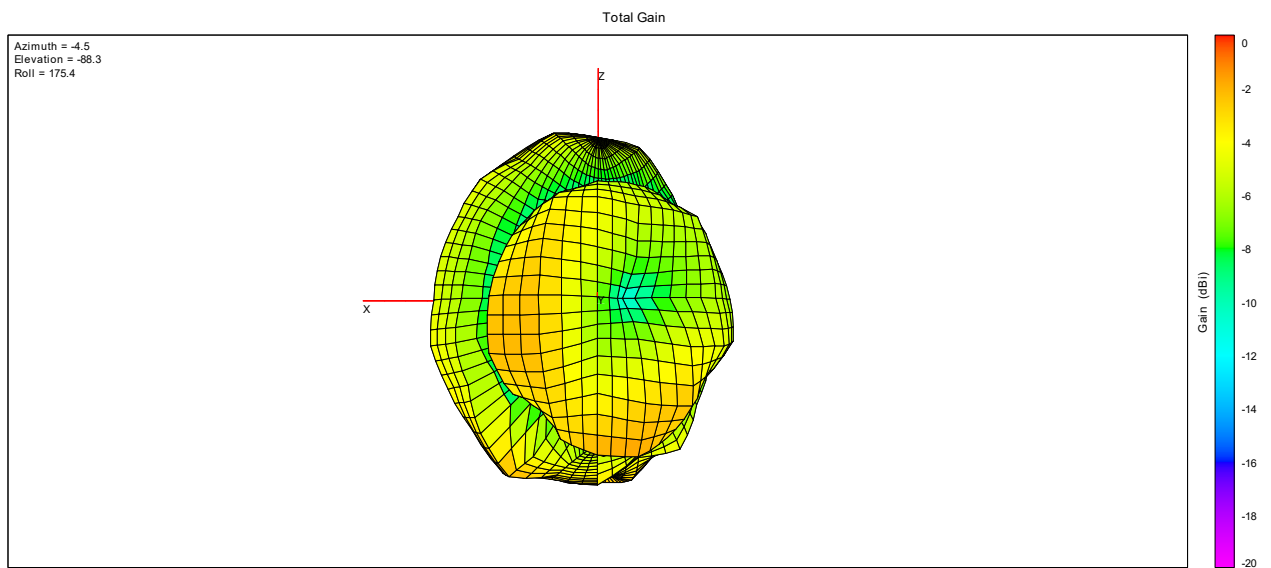
2. 3D Radiation Pattern



2400MHz



2450MHz



2500MHz



Annex C 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
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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	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

Note:The Main report is end here and the other Annex D will be submitted separately.

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