



REPORT No.: SZ22090096E10

TEST REPORT

APPLICANT : Lanhomex Technology(Shen Zhen) Co., Ltd.

PRODUCT NAME : Smart Lock

MODEL NAME : Homki-01

TRADE NAME : Homki

BRAND NAME : Homki

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2022-10-10

TEST DATE : 2022-10-19

ISSUE DATE : 2023-01-05

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Change History		
Version	Date	Reason for change
1.0	2023-01-05	First edition

1. Technical Information

Note: Provide by applicant.

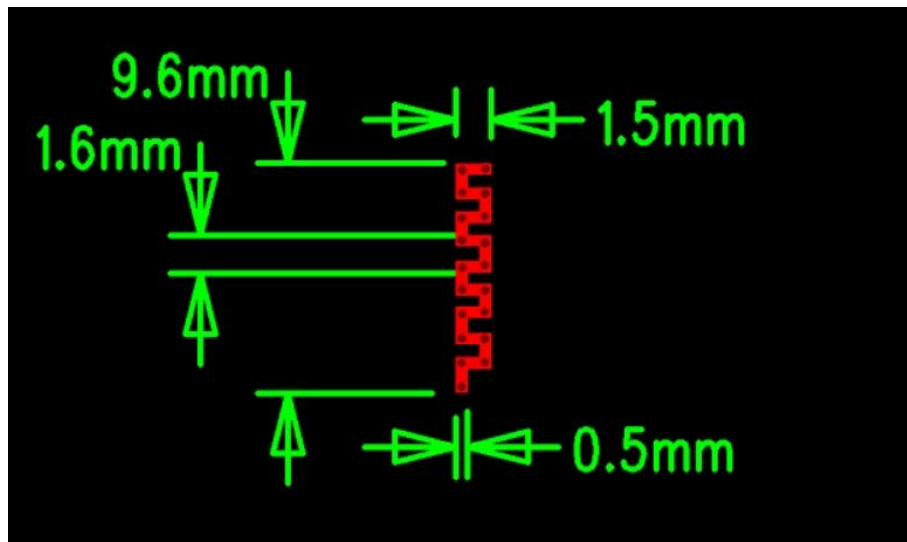
1.1. Applicant and Manufacturer Information

Applicant:	Lanhomex Technology(Shen Zhen) Co., Ltd.
Applicant Address:	Rm 401, Artificial Intelligence Industrial Park, Xixiangwan District, Baoan, Shenzhen , Guangdong, China
Manufacturer:	Lanhomex Technology(Shen Zhen) Co., Ltd.
Manufacturer Address:	Rm 401, Artificial Intelligence Industrial Park, Xixiangwan District, Baoan, Shenzhen , Guangdong, China

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	2400MHz-2500MHz
Product HW Version	V1.0
Product SW Version	V1.017
IMEI	N/A
Sample No.	5#

Dimensions:



Note: The sample photos shall be provided separately in Appendix C according to customer requirements.

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:	+10 °C to +30 °C

2.3. Measurement Uncertainty

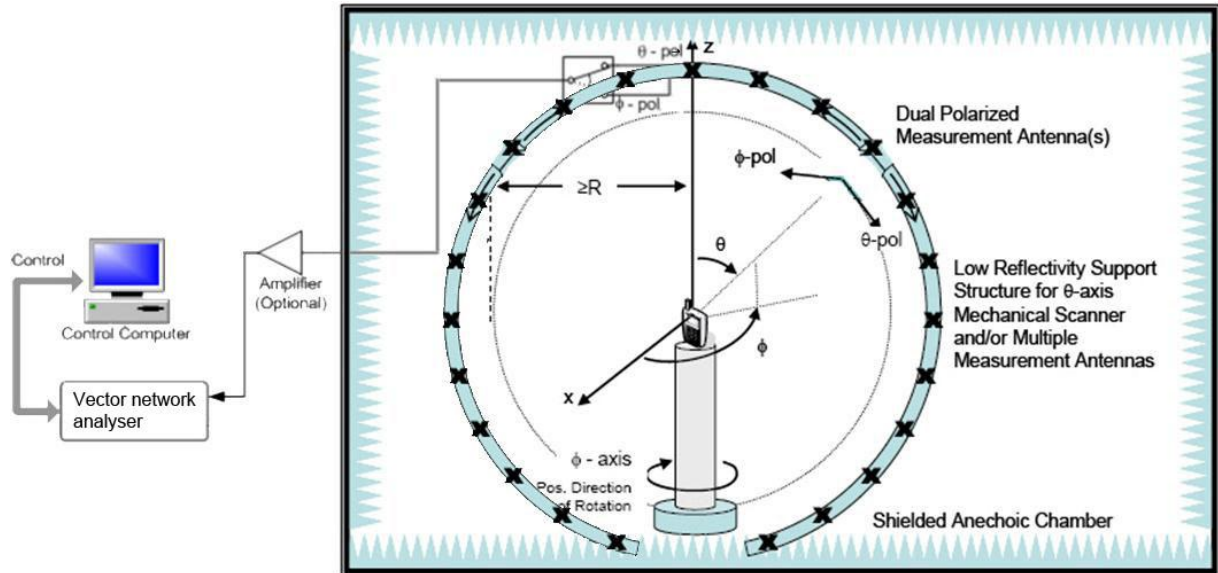
The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

Item	Measurement Uncertainty(dB)
Gain	±0.5
VSWR	±0.2
Measurement Uncertainty(95% Confidence Interval) K=2	

2.4. Test Results

Frequency	Gain(dBi)
2400 MHz	-4.10
2410 MHz	-4.33
2420 MHz	-4.93
2430 MHz	-5.20
2440 MHz	-5.34
2450 MHz	-5.46
2460 MHz	-5.46
2470 MHz	-5.66
2480 MHz	-5.74
2490 MHz	-5.83
2500 MHz	-5.99

Annex A Test Setup Photos

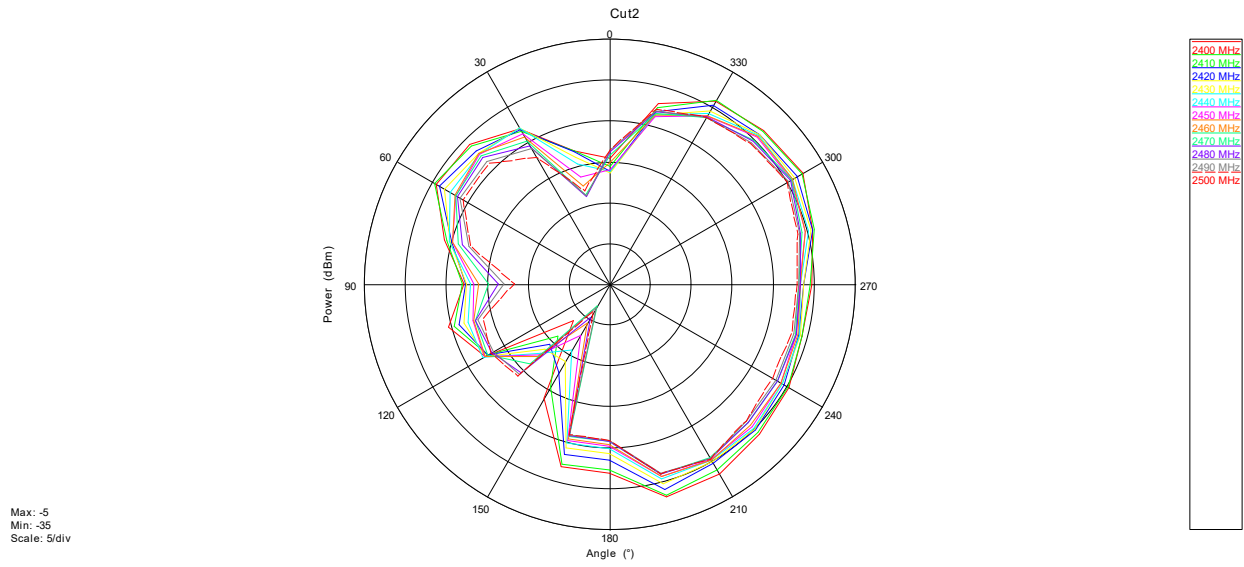




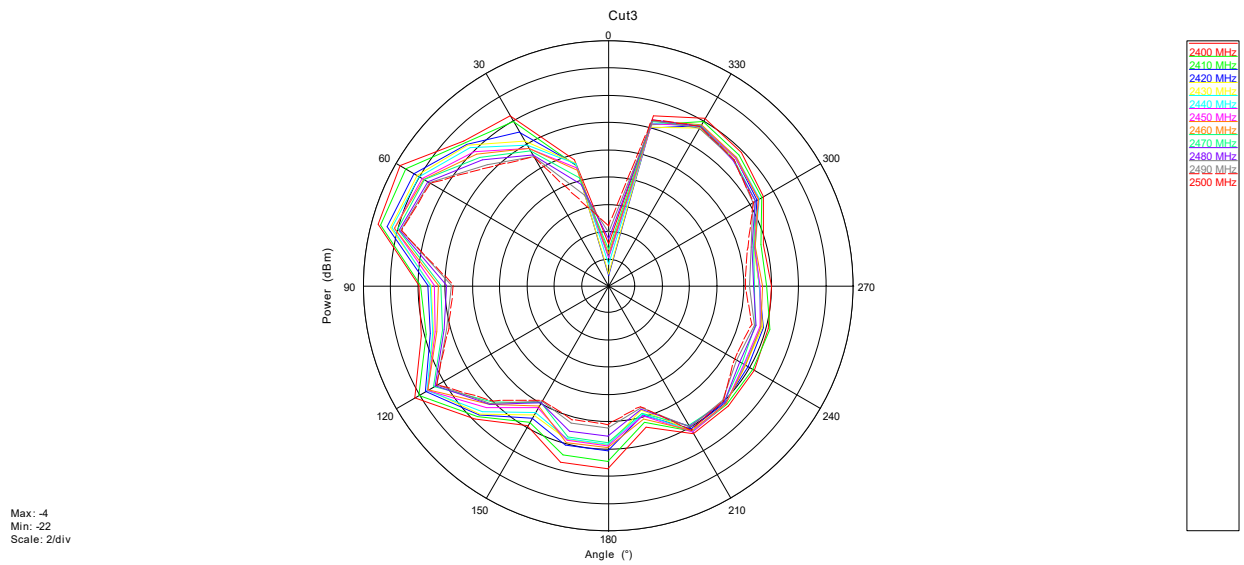
Annex B Figures

1. 2D Radiation Pattern

Phi=0°



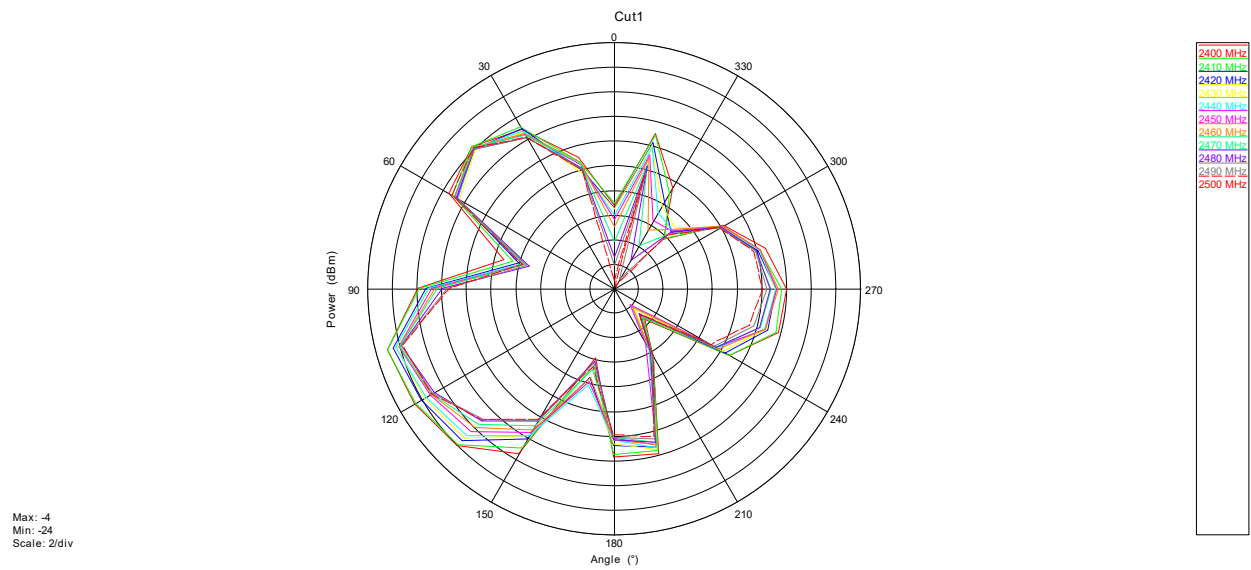
Phi=90°



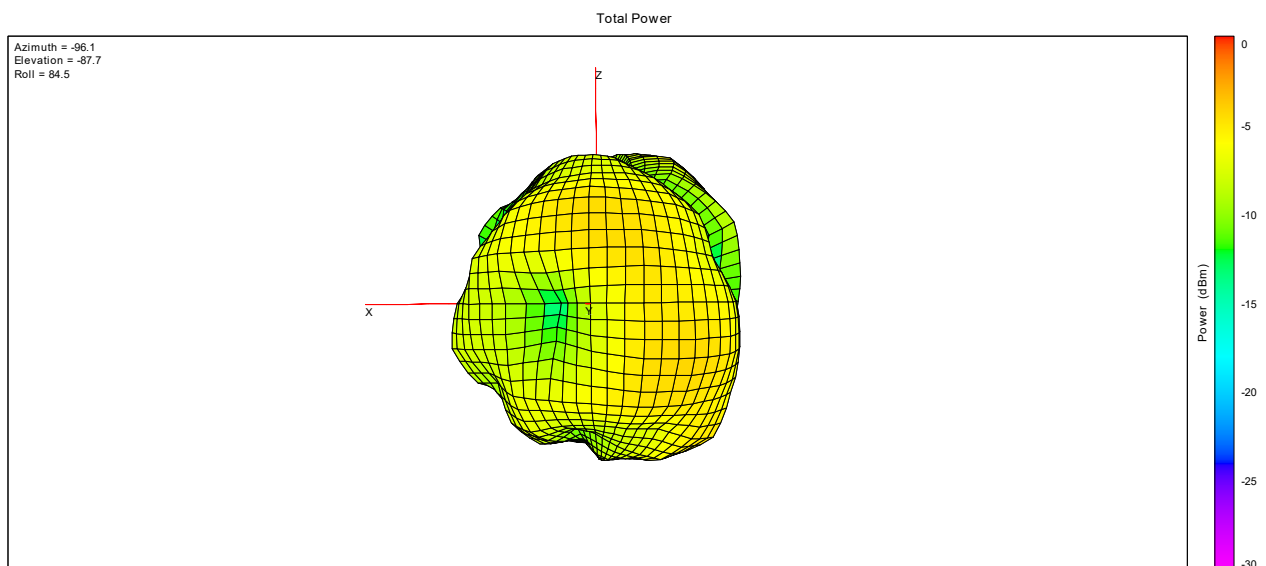


Theta=90°

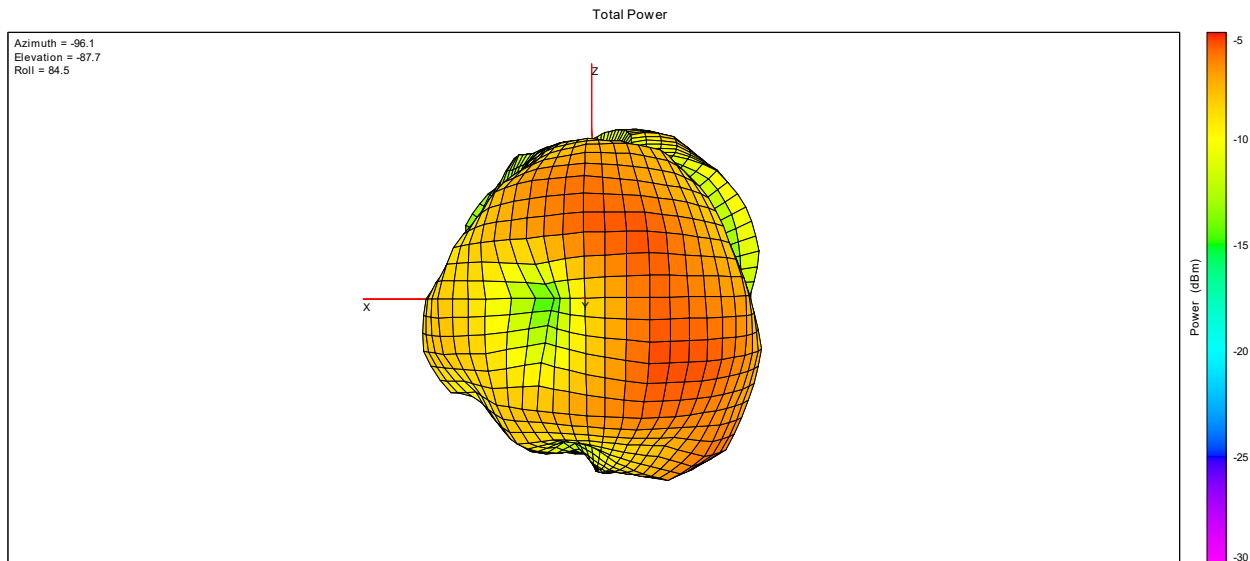
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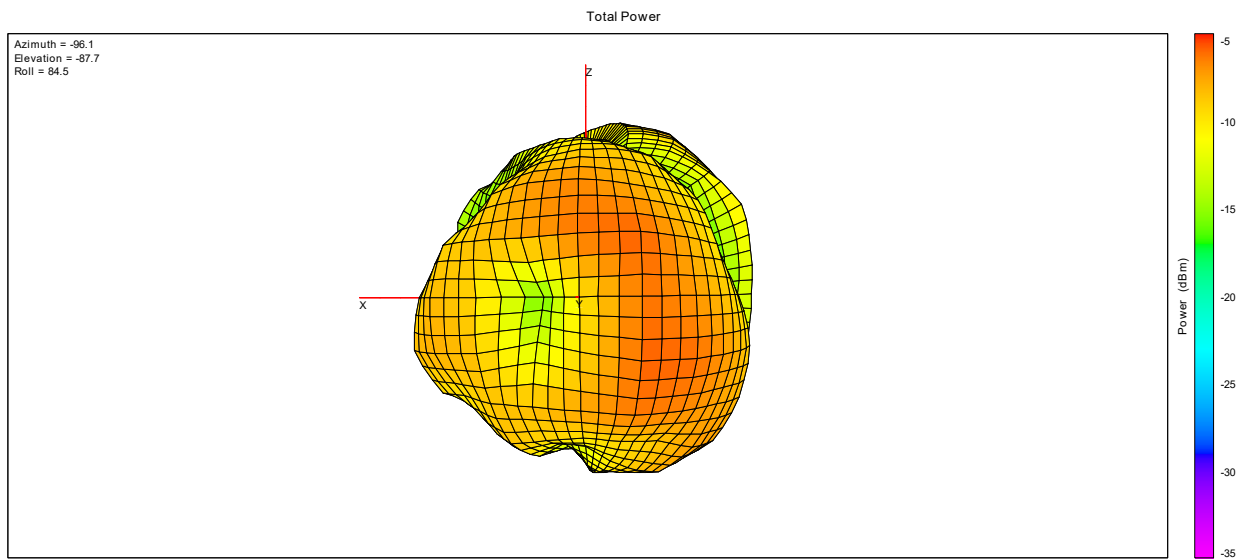
2. 3D Radiation Pattern



2400MHz



2440MHz



2480MHz



Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL1-3, 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:	FL1-3, 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	2022.07.04	2023.07.03
2	OTA Chamber	TJ2235-Q179 3	AMS-8923- 150	ETS	2020.01.06	2023.01.05
3	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS	N/A	N/A

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