



REPORT No.: SZ22070187E10

TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.

PRODUCT NAME : KEY TOOL MAX PRO

MODEL NAME : XDKMP0

TRADE NAME : Xhorse

BRAND NAME : Xhorse

STANDARD(S) : ANSI/IEEE Std 149-2008

RECEIPT DATE : 2022-07-25

TEST DATE : 2022-08-03

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Edited by:

Fang Jinshan

Fang Jinshan(Rapporteur)

Approved by:

Chi Shide

Chi Shide(Supervisor)

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Shenzhen Morlab Communications Technology Co., Ltd., FL1-3, Building A,
FeiYang Science Park, No.8 LongChang Road,Block67, BaoAn District,
ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





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Change History		
Version	Date	Reason for change
1.0	2022-08-24	First edition



1. Technical Information

Note: Provide by Applicant .

1.1. Applicant and Manufacturer Information

Applicant:	Shenzhen Xhorse Electronics Co., Ltd.
Applicant Address:	Floor 28, Block A, Building NO.6, international innovation Valley, Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Xhorse Electronics Co., Ltd.
Manufacturer Address:	Floor 28, Block A, Building NO.6, international innovation Valley, Nanshan District, Shenzhen, China

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	2400MHz-2500MHz
Product HW Version	V2.9
Product SW Version	V1.1.2
IMEI	N/A
Sample No.	27#

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

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.

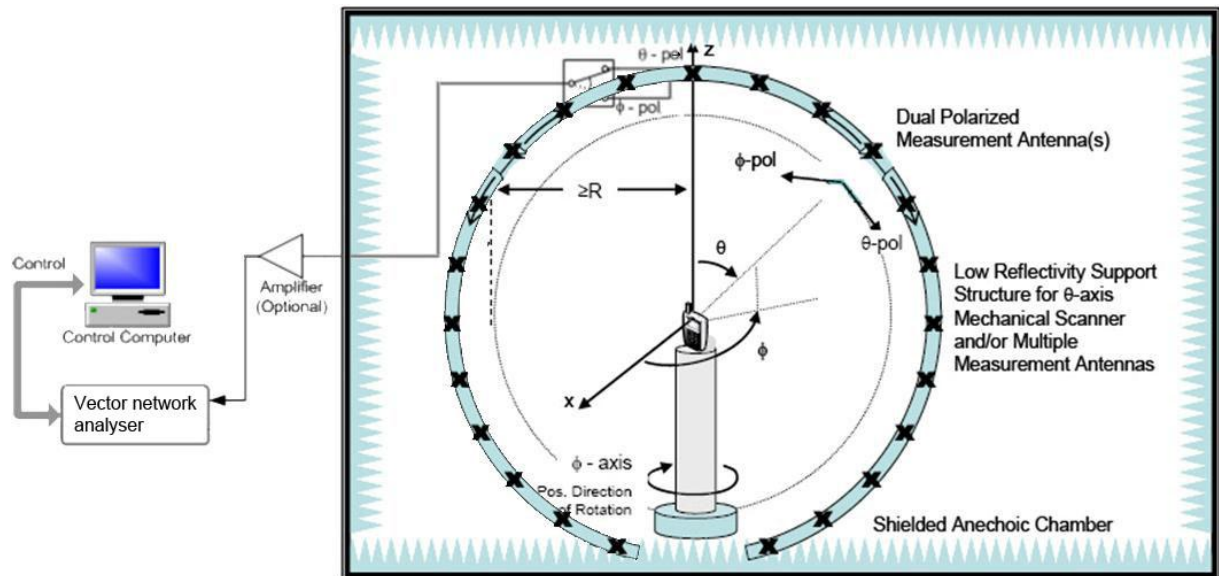
Item	Measurement Uncertainty(dB)
Gain	± 0.5
VSWR	± 0.2
Measurement Uncertainty(95% Confidence Interval) K=2	

2.4. Test Results Lists

Frequency(MHz)	Gain(dBi)
2400	0.17
2410	0.17
2420	0.01
2430	-0.10
2440	-0.03
2450	0.12
2460	0.23
2470	0.15
2480	0.13
2490	0.23
2500	0.46

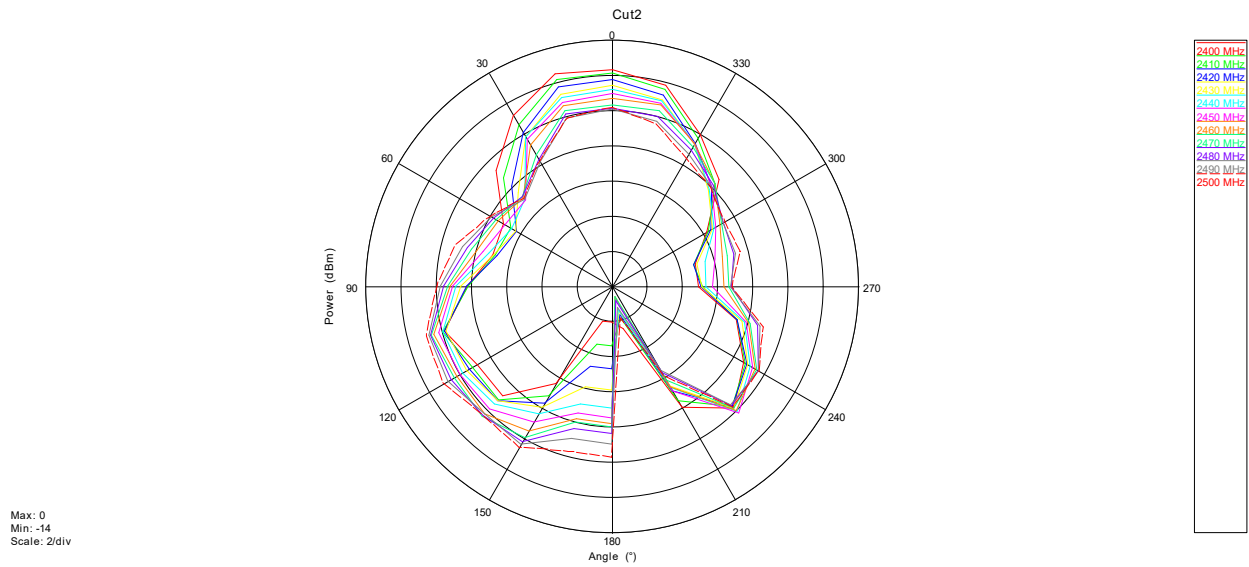
Annex A Photographs

1. Test Setup

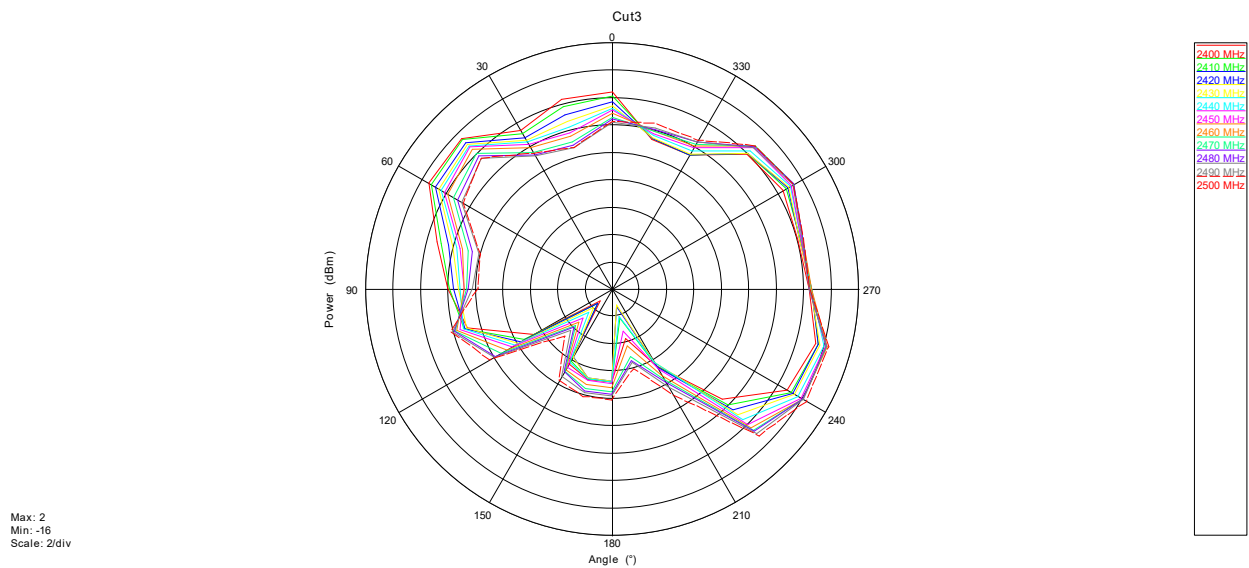


Annex B Figures

1. 2D Radiation Pattern



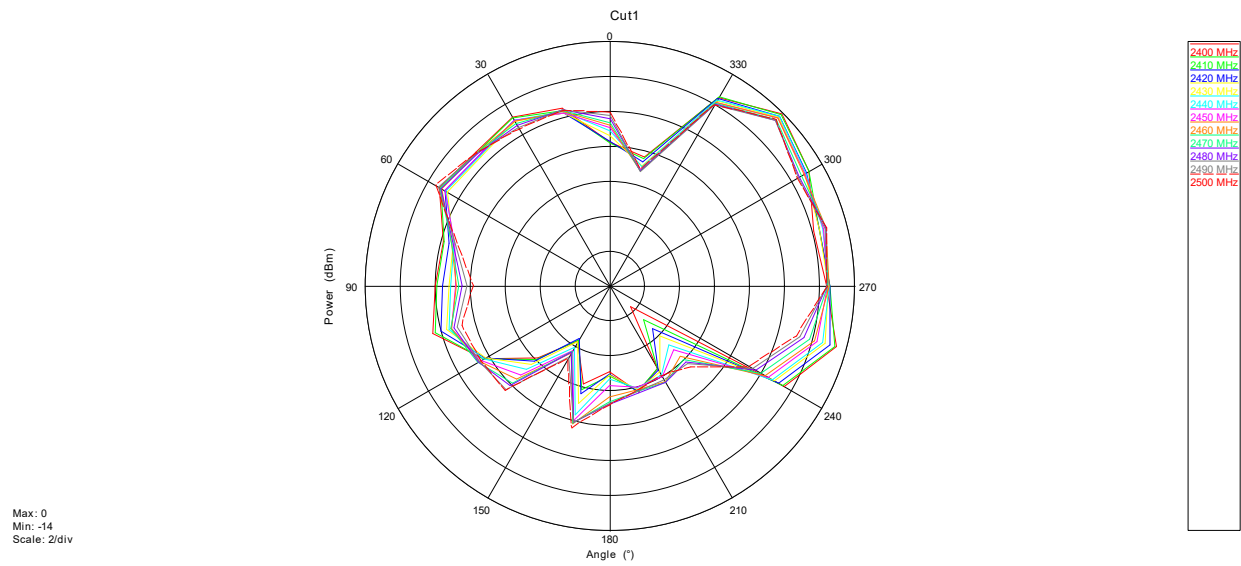
Phi=0°



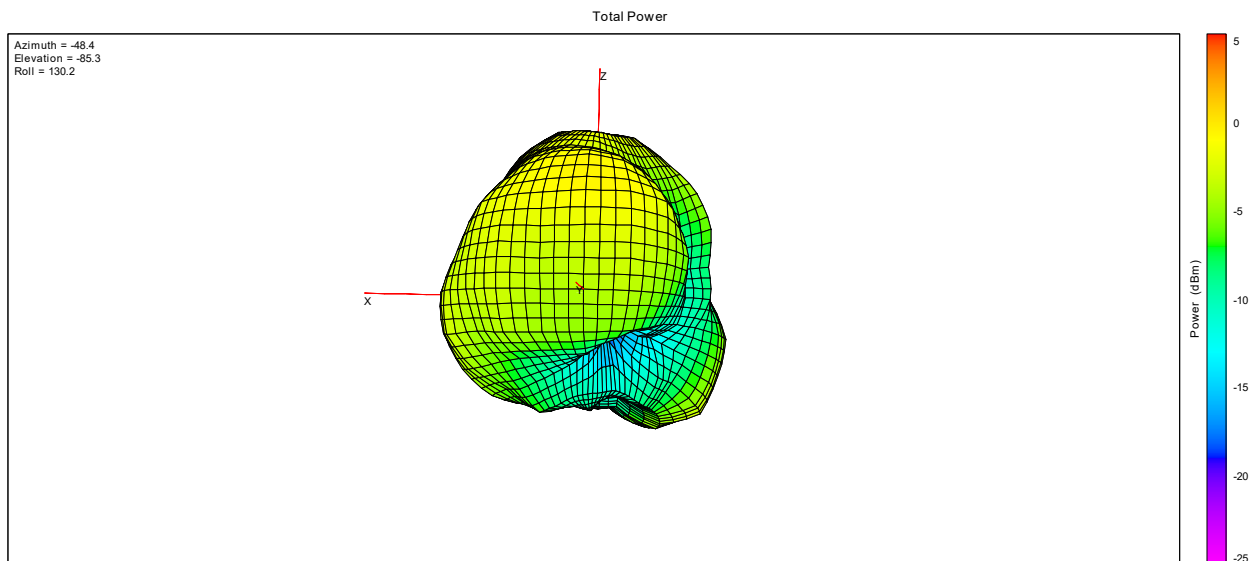
Phi=90°



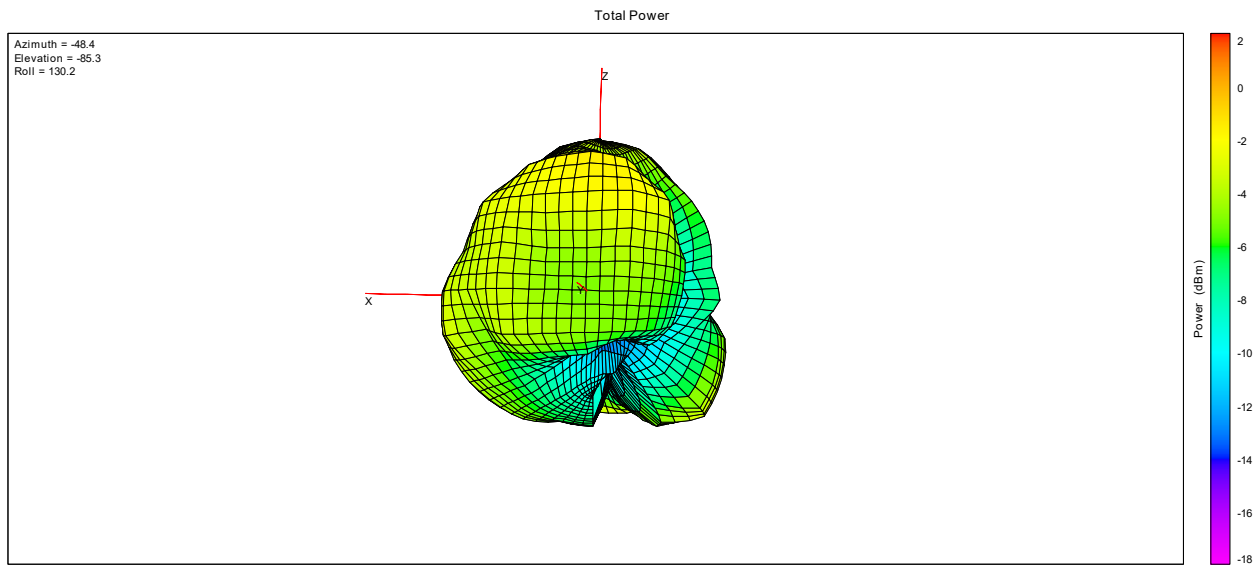
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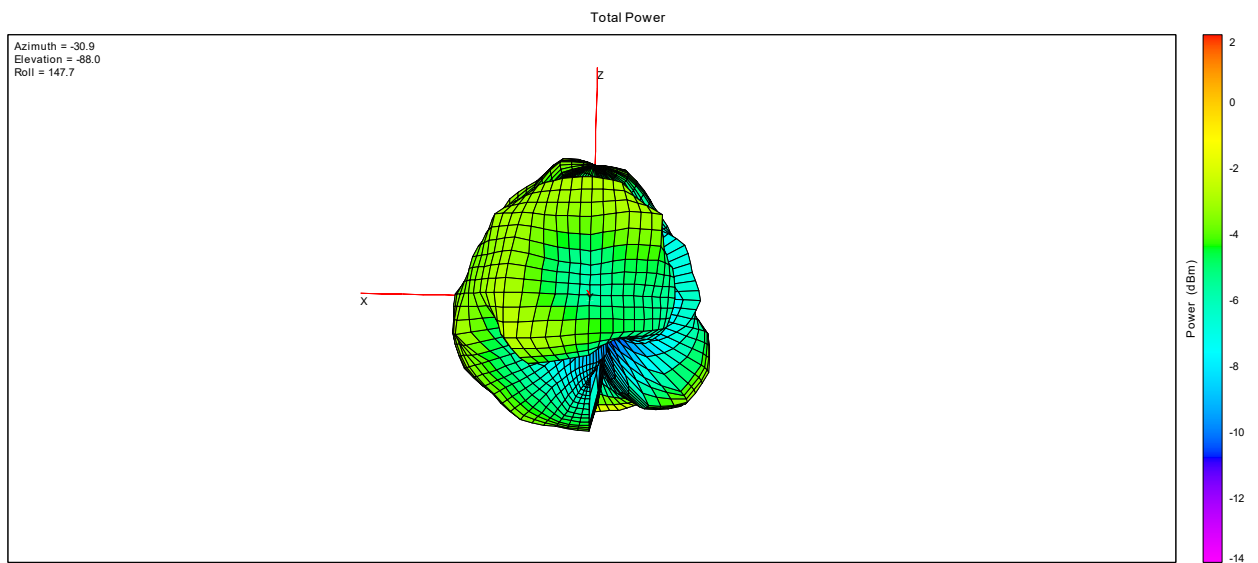
2. 3D Radiation Pattern



2400MHz



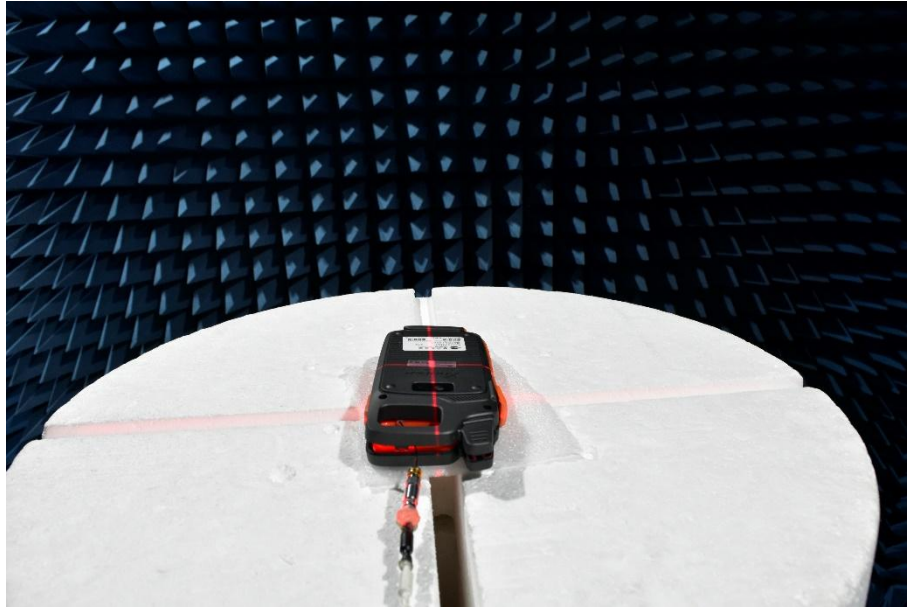
2450MHz



2500MHz

Annex C Photographs

1. Test environment



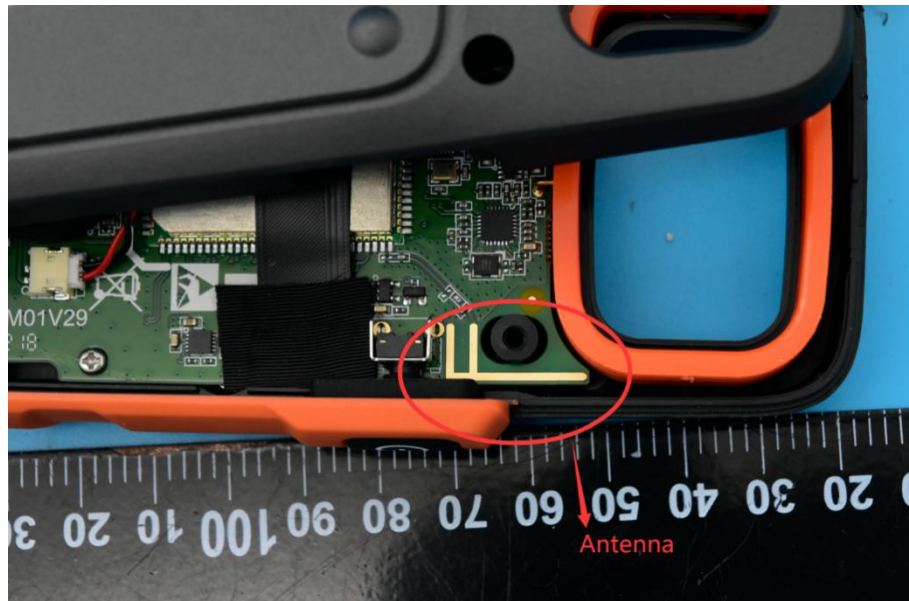
2. EUT













Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	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.	Equipement Name	Serial No.	Type	Manufa- cturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2022.07.04	2023.07.03
2	OTA Chamber	TJ2235-Q17 93	AMS-8923-1 50	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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