



REPORT No.: SZ22080333E10

TEST REPORT

APPLICANT : Shenzhen Cocicoho Technology Co.,Ltd
PRODUCT NAME : AirBox
MODEL NAME : SDT1
TRADE NAME : Cocicoho
BRAND NAME : Cocicoho
STANDARD(S) : IEEE Std 149-2021
RECEIPT DATE : 2022-09-09
TEST DATE : 2022-09-13
ISSUE DATE : 2022-12-02

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2022-12-02	First edition



1. Technical Information

Note: Provide by manufacturer.

1.1. Applicant and Manufacturer Information

Applicant:	Shenzhen Cocicoho Technology Co.,Ltd
Applicant Address:	Room 503, Mingzhu Building, No. 4004, Wuhe Avenue, Bantian Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	Dongguan Uke Smart Electronics Co., LTD
Manufacturer Address:	Room 401, Building 3, No.25 Junpeng Road, Tangxia Town, Dongguan City, Guangdong Province, China

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth
Frequency	2402MHz-2480MHz
IMEI	N/A
Sample No.	8#
Product HW Version	V3
Product SW Version	1.7.11

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	

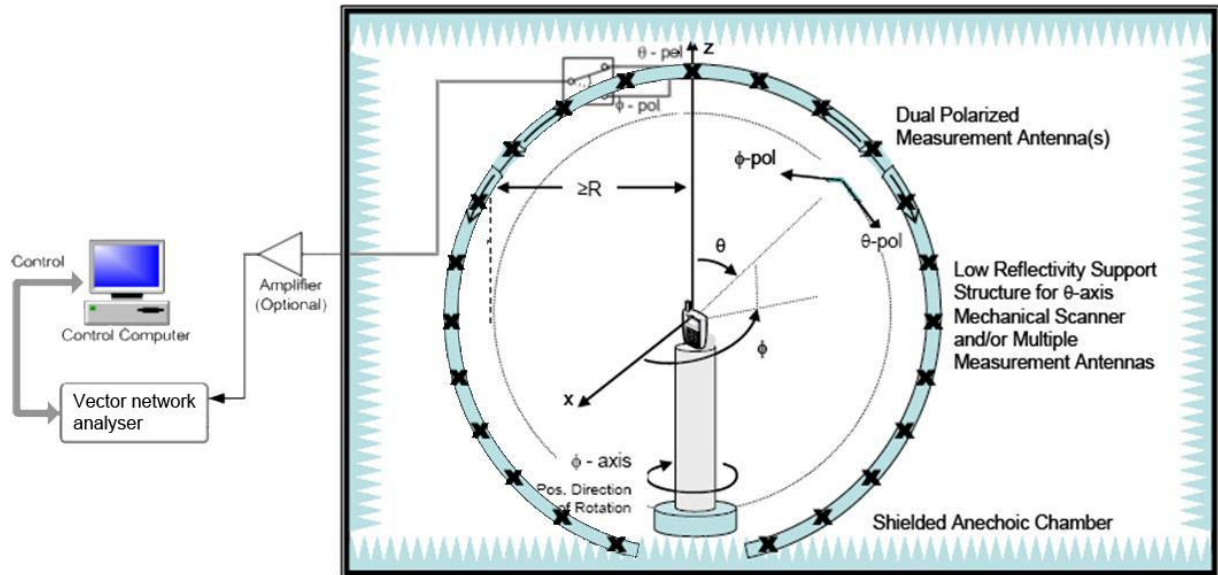


2.4. Test Result

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	-3.18
2410	-3.35
2420	-3.70
2430	-3.94
2440	-3.87
2450	-3.82
2460	-3.86
2470	-4.04
2480	-4.20
2490	-4.29
2500	-4.41

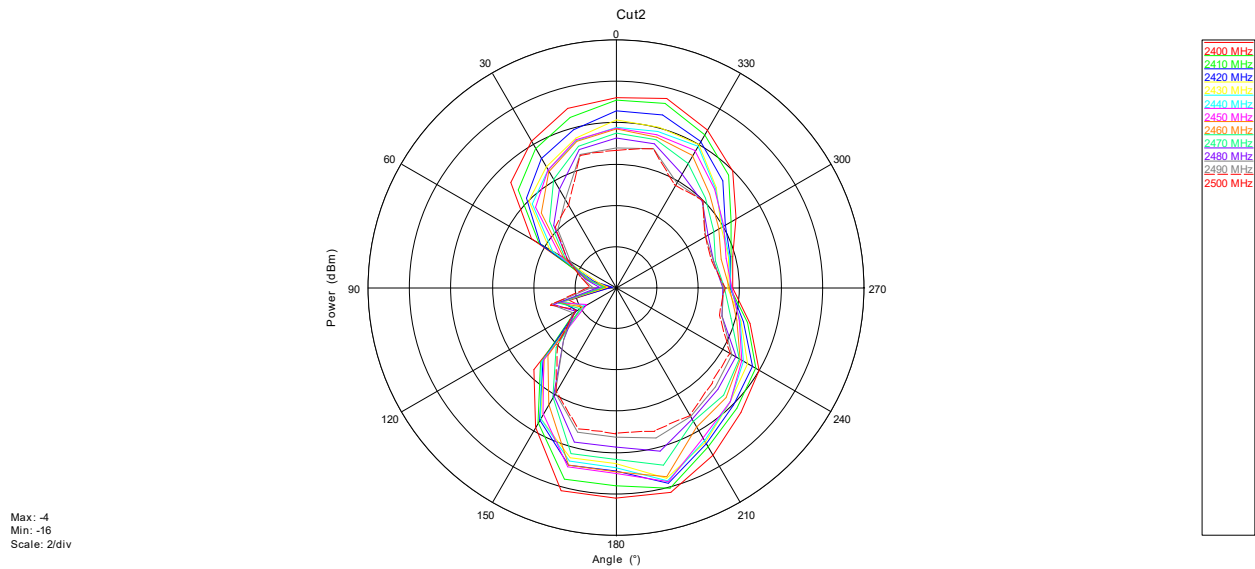
Annex A Test Setup Photos



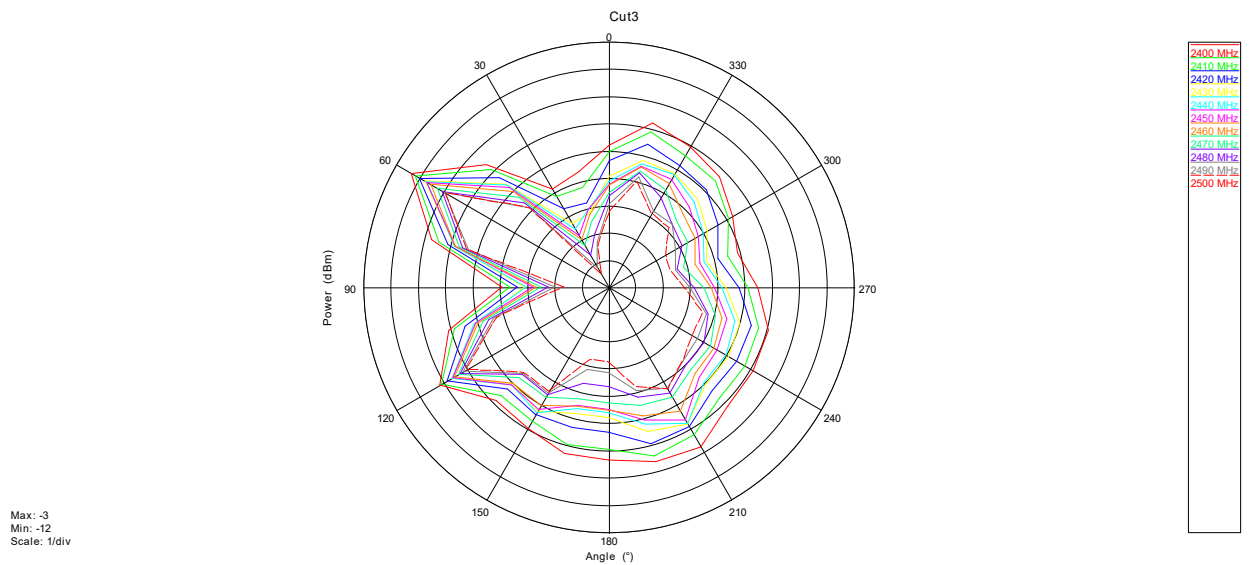
Annex B Figures

1. 2D Radiation Pattern

Phi=0°



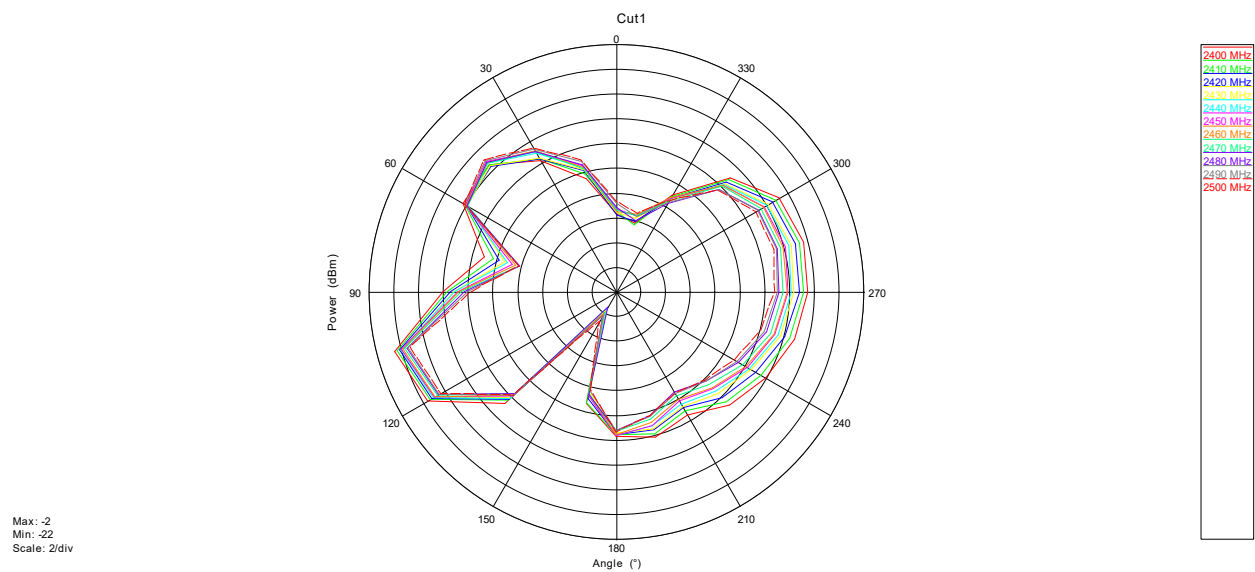
Phi=90°



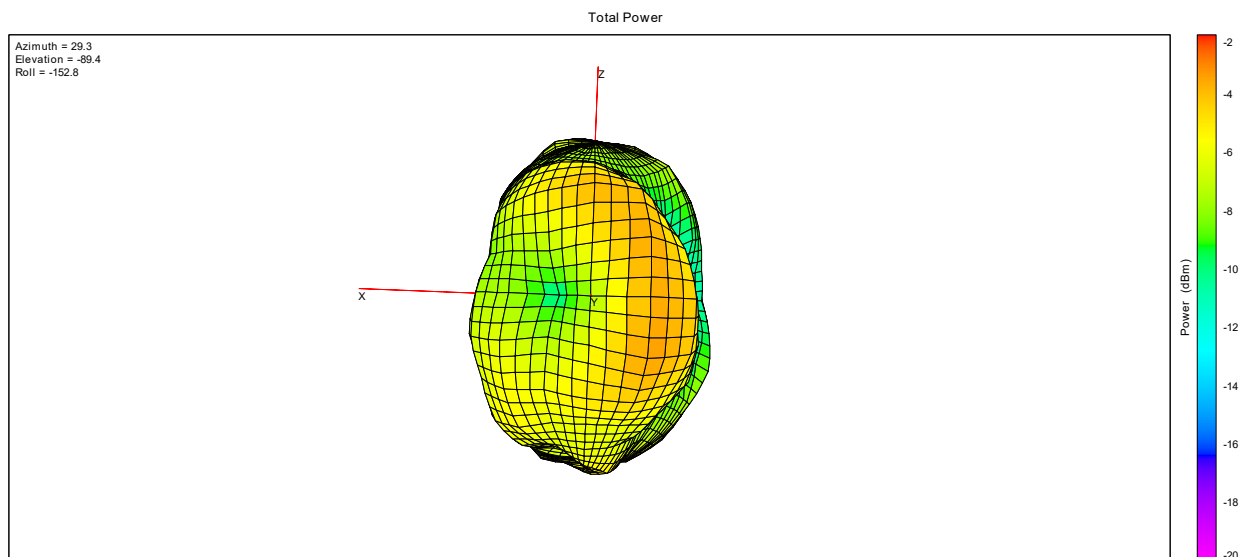


Theta=90°

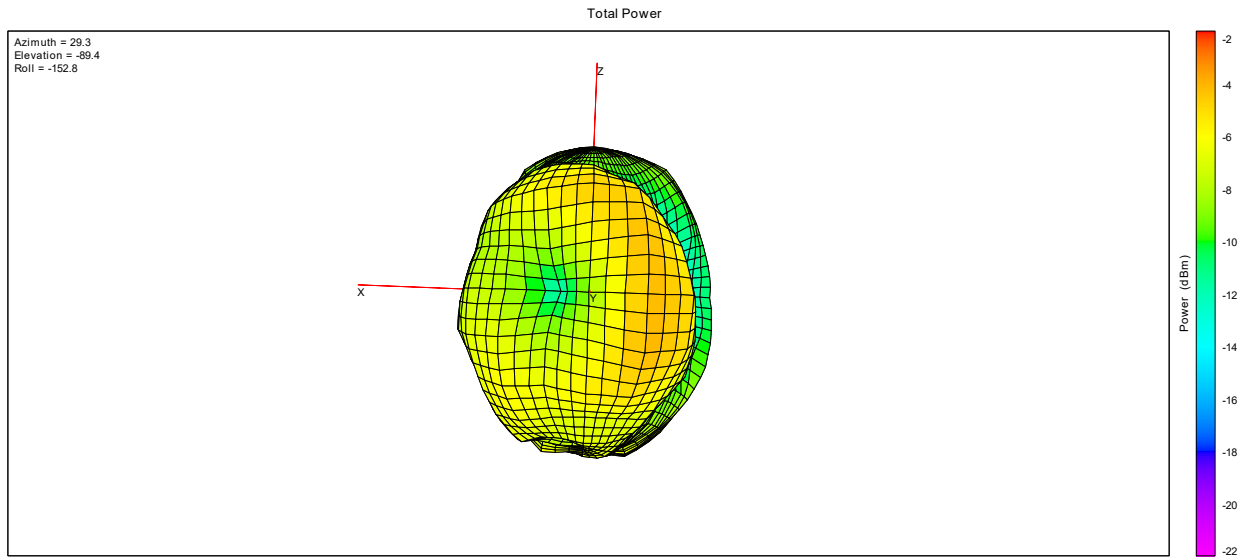
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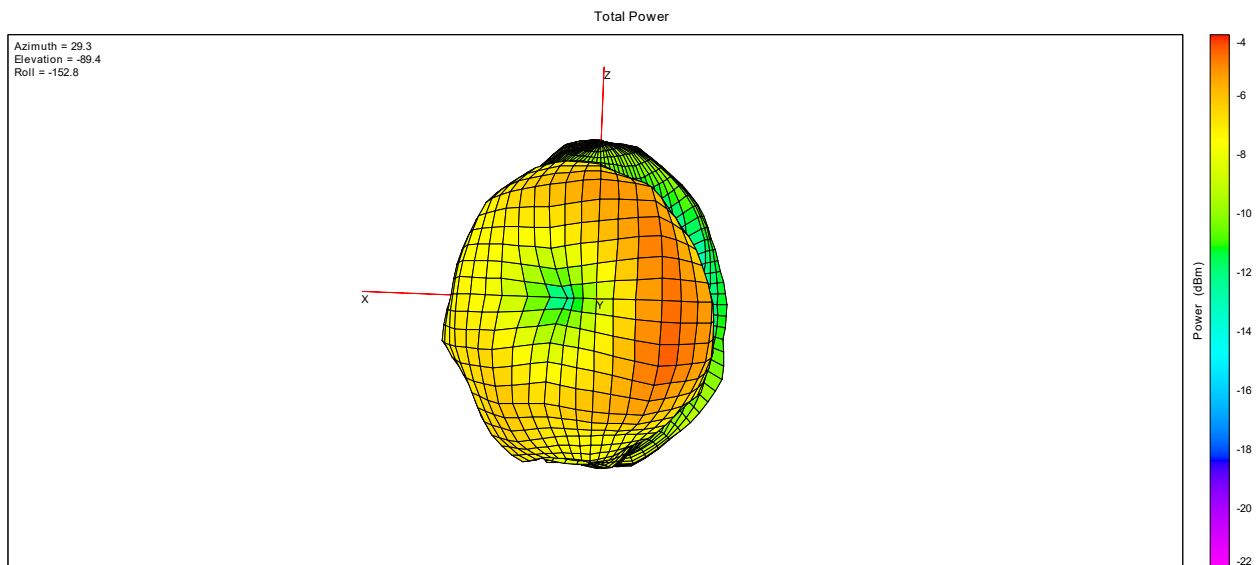
2. 3D Radiation Pattern



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.	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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