

Sample Approved Sheet

Hetuo (O2) Acknowledgment

Customer Name Shenzhen Shengyou Technology Co., Ltd

Client Type O2

Brand HT-O2

Hetuo Judgment Audit Team

Formulate	Check	Ratify	Acknowledge the book completion time
Zhongxiaomin g	Huxuewen	Daitingting	2023.9.1

Zhenchen (Client) Judgment Audit Team

Acknowledgement Number _____

Proving time

acknowledge	check	ratify	Acknowledge the book completion time

Project Review ☐Three acknowledgements☐Specifications/drawings
☐examining report ☐Specimen PCS ☐Safety standard ☐HSF

Appraisal report☐Accept ☐Conditional acceptance ☐Refuse

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of O2. The O2 antenna is a WIFI 2.42.5GHz Band . The antenna Picture and assembly are shown below. Antenna picture & assembly picture



2. Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber , and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

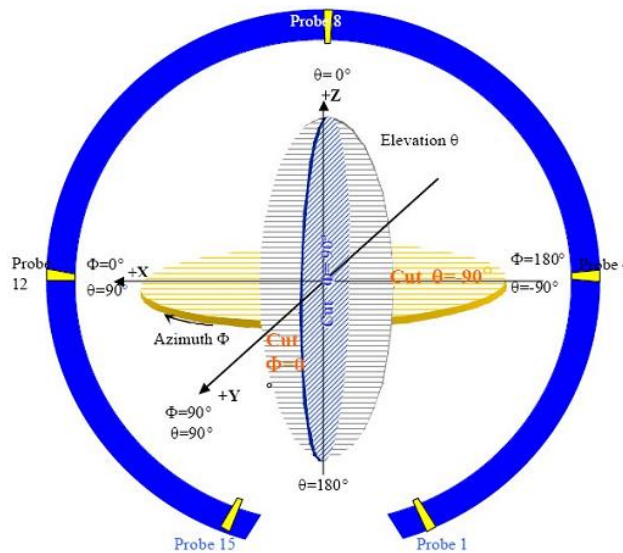


图 4 3D 微波暗室测试坐标系 (back view)

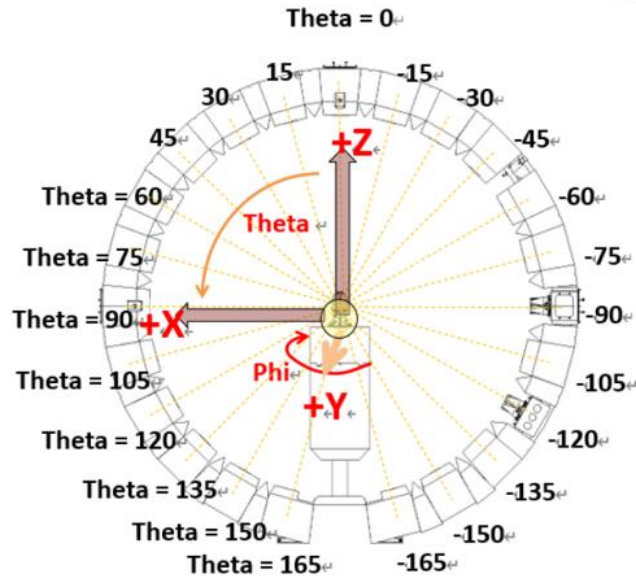
3. Electrical Specification

3-2 Passive S11 parameter

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

S11—(BT ANT)

Sample status & coordinates

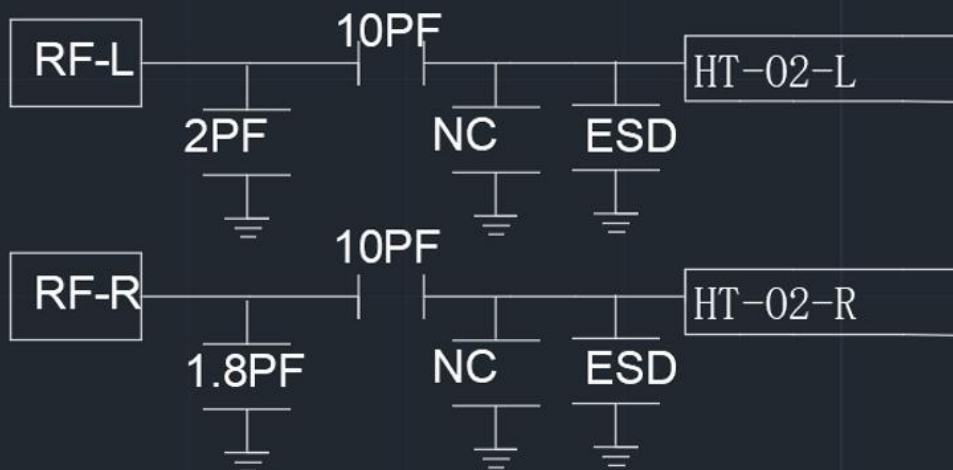


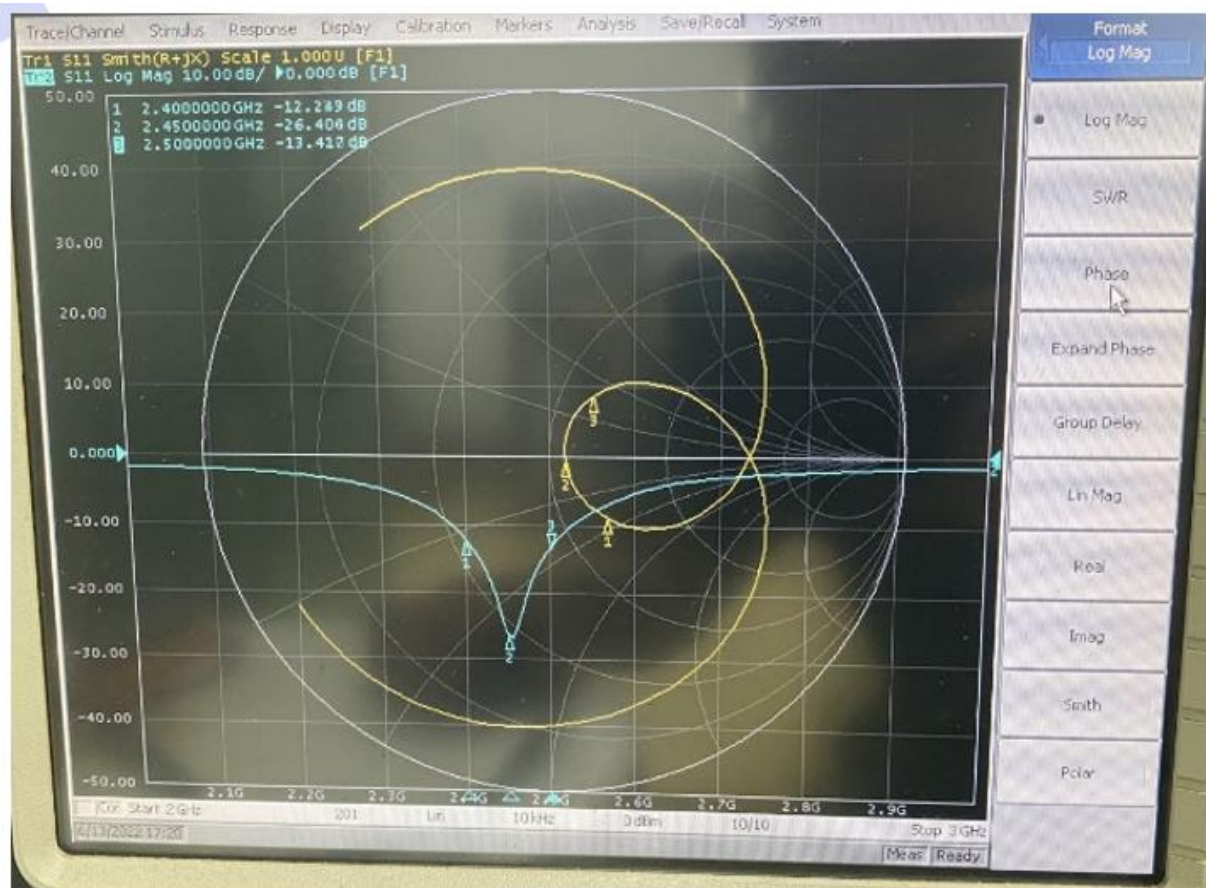
(L/R)

声优

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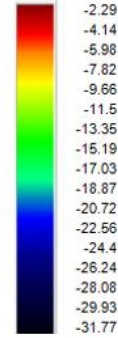
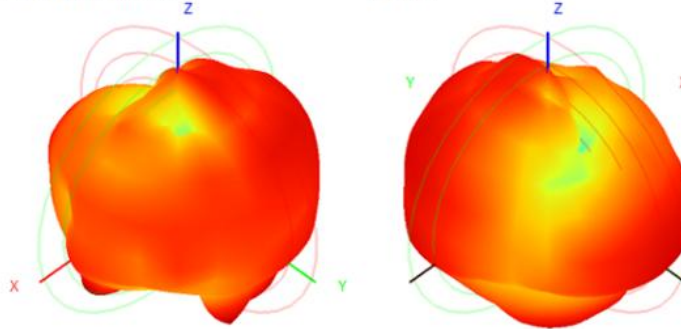
Gain & Efficiency——BT- ANT(L/R)

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	13.49	-2.29
2410	13.88	-1.10
2420	13.96	-0.54
2430	14.62	0.42
2440	15.04	1.05
2450	14.91	1.16
2460	15.18	1.35
2470	14.96	1.23
2480	14.60	0.70
2490	14.97	0.99
2500	14.80	0.61

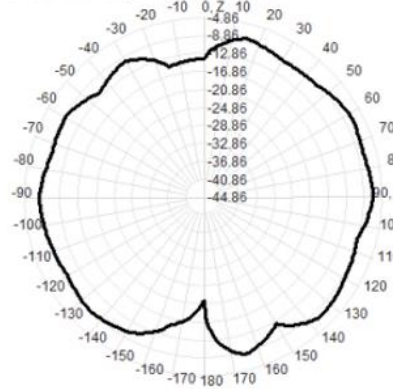
2D&3D BT- ANT

2400.0MHz H+V, Eff: 13.5%

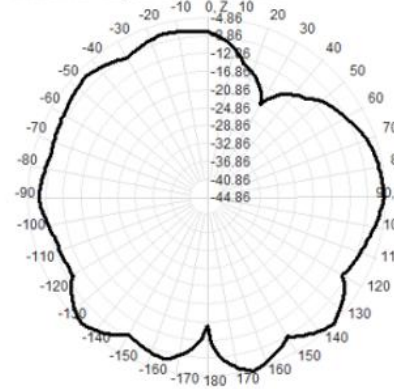
Back View



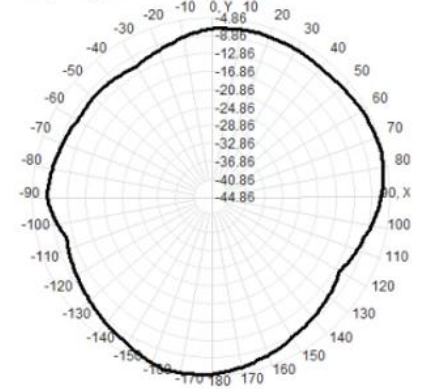
2400.0MHz Total(E1-XZ), Max= -7.07dBi



2400.0MHz Total(E2-YZ), Max= -4.86dBi



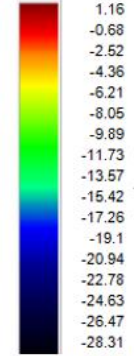
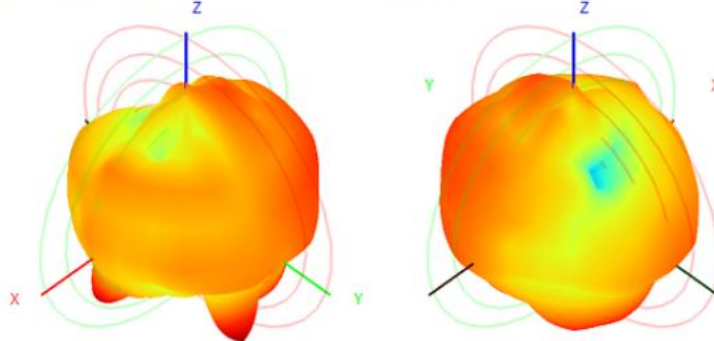
Total(H-XY), Max= -5.13dBi, CirD=6.81



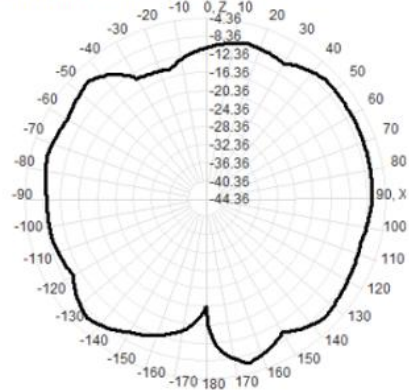
2D&3D BT- ANT

2450.0MHz H+V, Eff: 14.9%

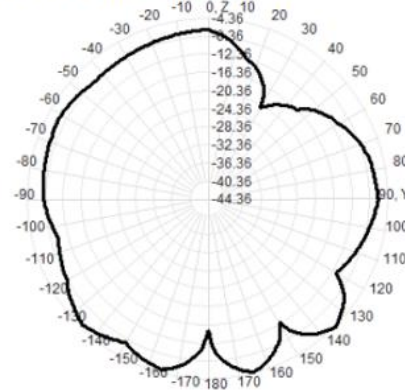
Back View



2450.0MHz Total(E1-XZ), Max= -6.93dBi



2450.0MHz Total(E2-YZ), Max= -4.36dBi



Total(H-XY), Max= -5.91dBi, CirD=6.09

