Shenzhen Hetuo Technology Co., Ltd

Building 1202B, Building C 6, Hengfeng industrial city, Hezhou, xixiang, Baoan District, Shenzhen City

Sample Approved Sheet

Customer Name Dongguan Shui Wo Electronic Technology Co., Ltd.

Antenna Type: FPC Antenna

Hetuo (R1328-R) Acknowledgment

Client Ty	pe	R1328			
Brand			HT-R1328-R		
letuo Judgmen	t Audit Team				
Formulate	Check	Ratify	Acknowledge the book completion time		
iyaona	Huxuewen	Daitingting	2024.9.14		
(Ruihe) Judg	gment Audit Team				
Acknowledgem	ent Number		Proving time		
acknowledge	check	ratify	Acknowledge the book completion time		
· ·		edgements□Specific en PCS □Safet	S		
Appraisal repo	ort□Accept	□Conditional acce	eptance		

Confidential Information

Items	Date	Versi on	The revised notes	Notes
1	2024. 9. 14	A0	For the first time	
2				

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of HT-R1328 -R. The HT-R1328 -Rantenna is a **BT** 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:

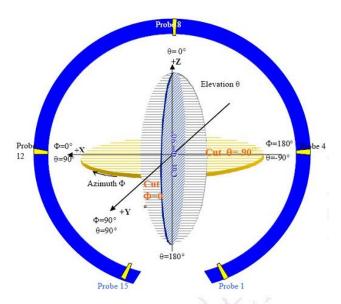


图 4 3D 微波暗室测试坐标系(back view)

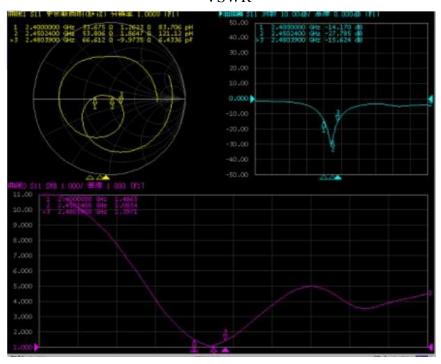
Coordinate system for 3D microwave darkroom testing

3. Electrical Specification

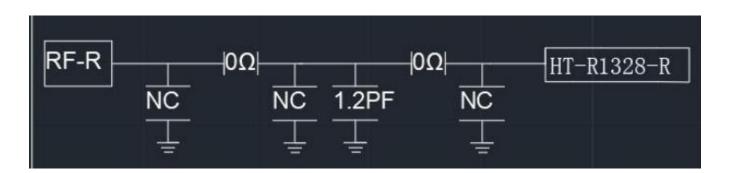
3-2 Passive S11 parameter

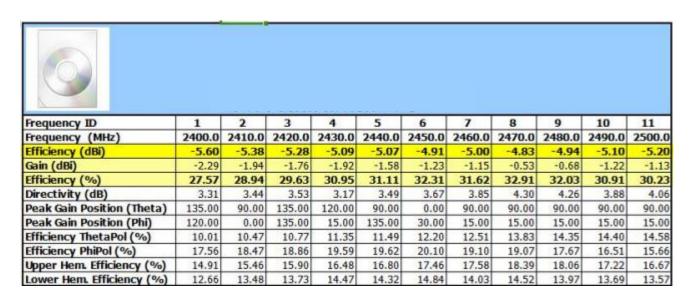
Measuring Method $\,$ is a $50\,\Omega$ coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

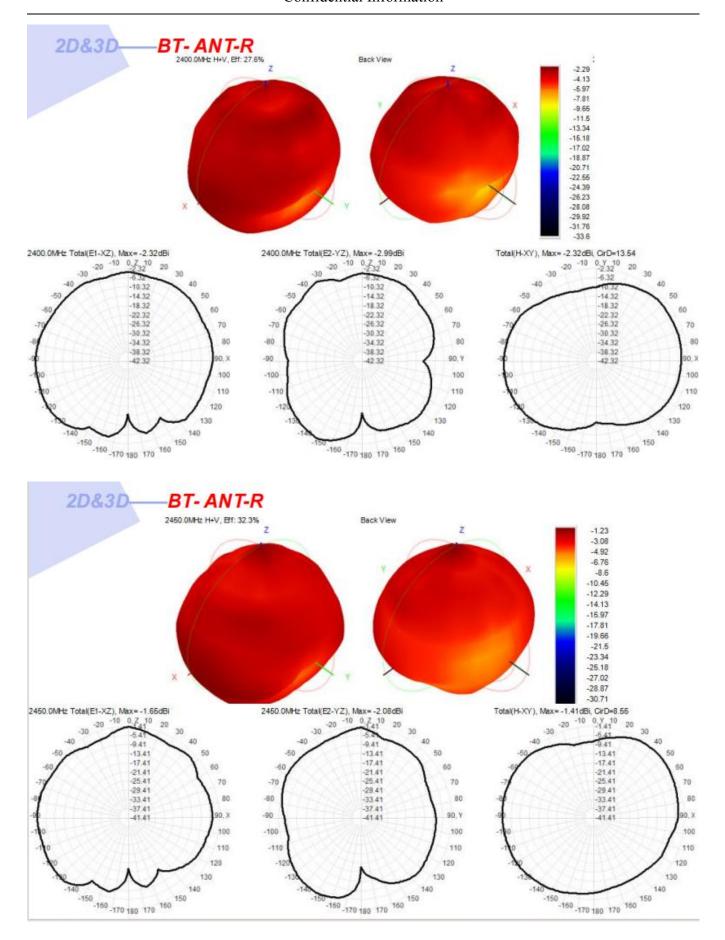
VSWR



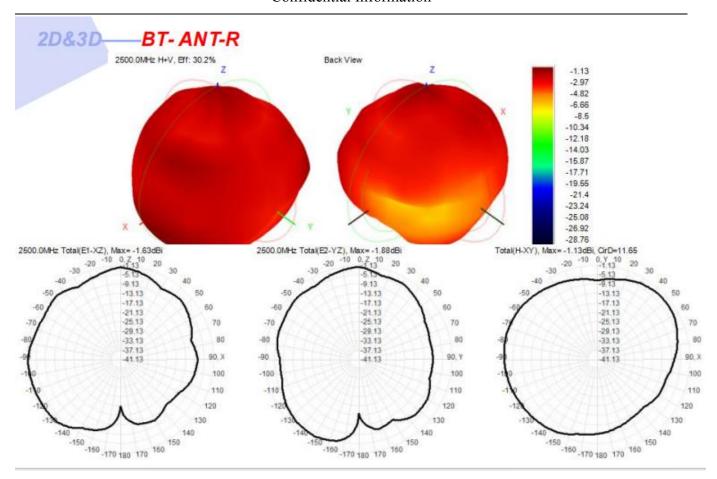
3-3 Antenna Matching Network







Confidential Information



OTA DATA(R)--自由空间1#

Test Equipment:	R&S CMW500			
Test Condition:				
Band	Wireless Pr otocol	Channel	TRP(dBm)	TIS(dBm)
		0	3.23	-87.94
ВТ		39	3.85	-87.65
		78	3.15	-87.35

OTA DATA(R)--头模

Test Equipment:	R&S CMW500			
Test Condition:				
Band	Wireless Pr otocol	Channel	TRP(dBm)	TIS(dBm)
		0	1.21	-84.45
BT		39	1.43	-84.64
		78	1.54	-84.28

4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8

