Shenzhen Hetuo Technology Co., Ltd

Sample Approved Sheet

Hetuo（R1329-R）Acknowledgment

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

Client Type R1329A

Brand HT-R1329A-R-V1

Hetuo Judgment Audit Team

Formulate	Check	Ratify	Acknowledge the book completion time
Liyaona	Huxuewen	Daitingting	2024.10.28

（Ruihe）Judgment Audit Team

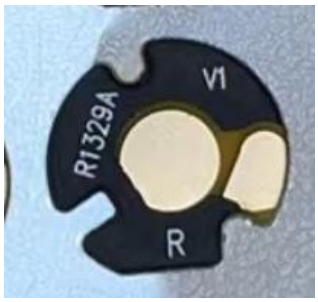
Acknowledgement Number_____ Proving time

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			

Items	Date	Version	The revised notes	Notes
1	2024.10.28	A0	For the first time	
2				

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of HT-R1329A -R-V1
The HT-R1329A -R-V1antenna 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:

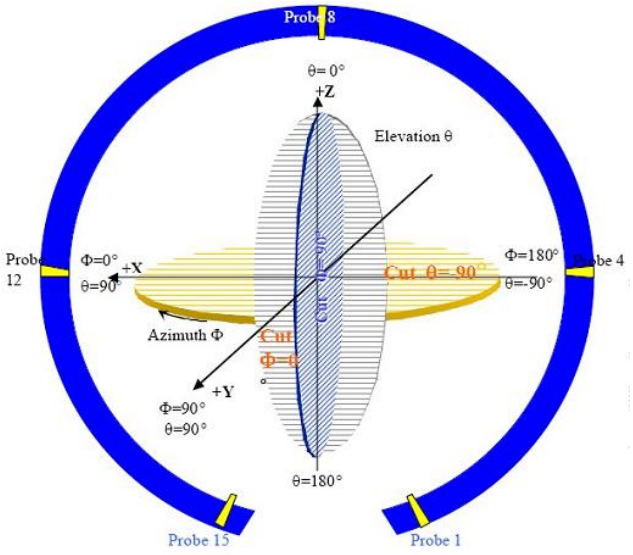


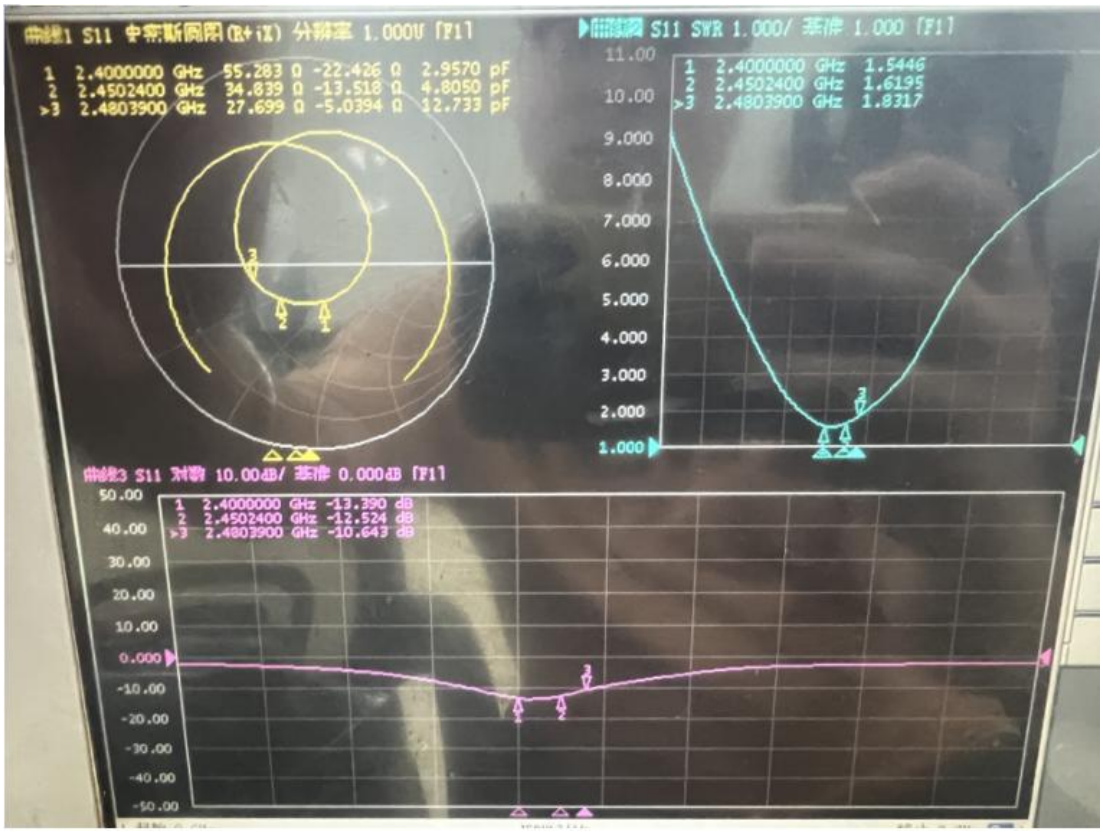
图 4 3D 微波暗室测试坐标系(back view)

3. Electrical Specification

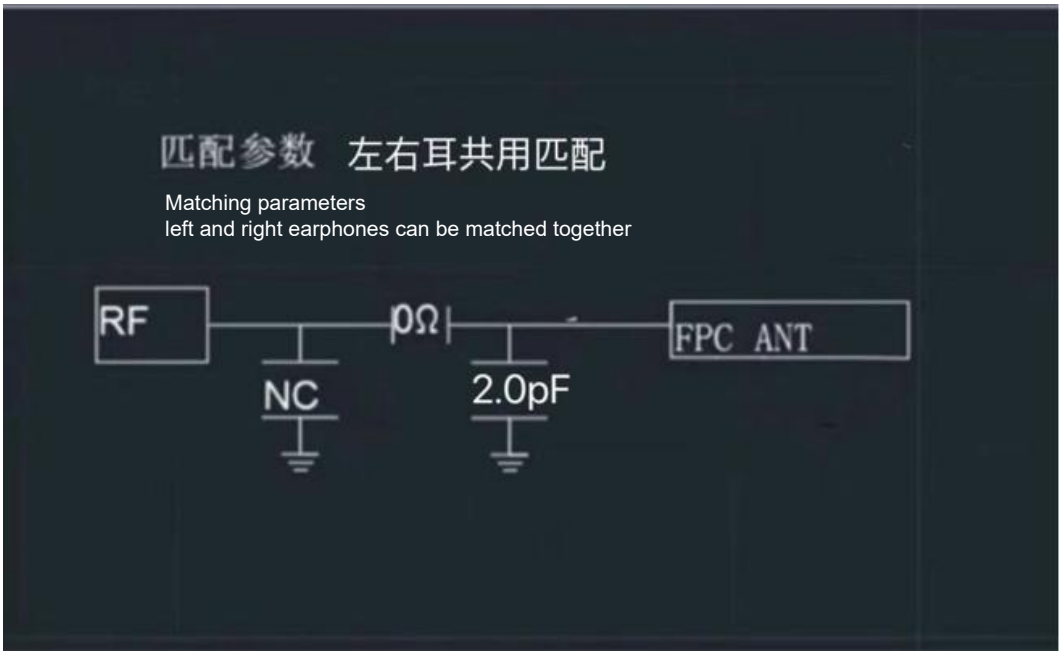
3-2 Passive S11 parameter

Measuring Method is a 50Ω 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



Frequency (MHz)	Peak GAIN (dBi)	Efficiency (%)
2400	-0.20	20.54
2410	0.08	22.39
2420	1.69	25.43
2430	2.39	29.22
2440	2.09	30.41
2450	1.94	31.90
2460	1.89	31.32
2470	1.49	30.47
2480	1.09	28.22
2490	0.71	26.33
2500	0.42	23.76

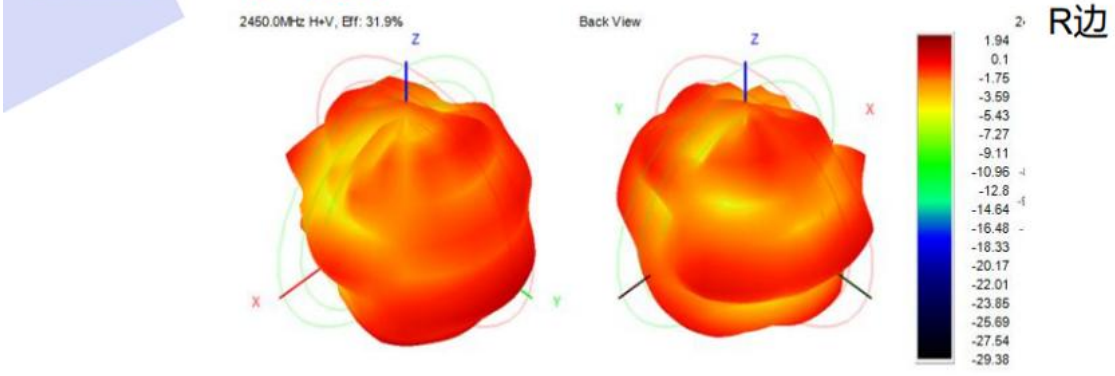
FS Free Space
FS 自由空间

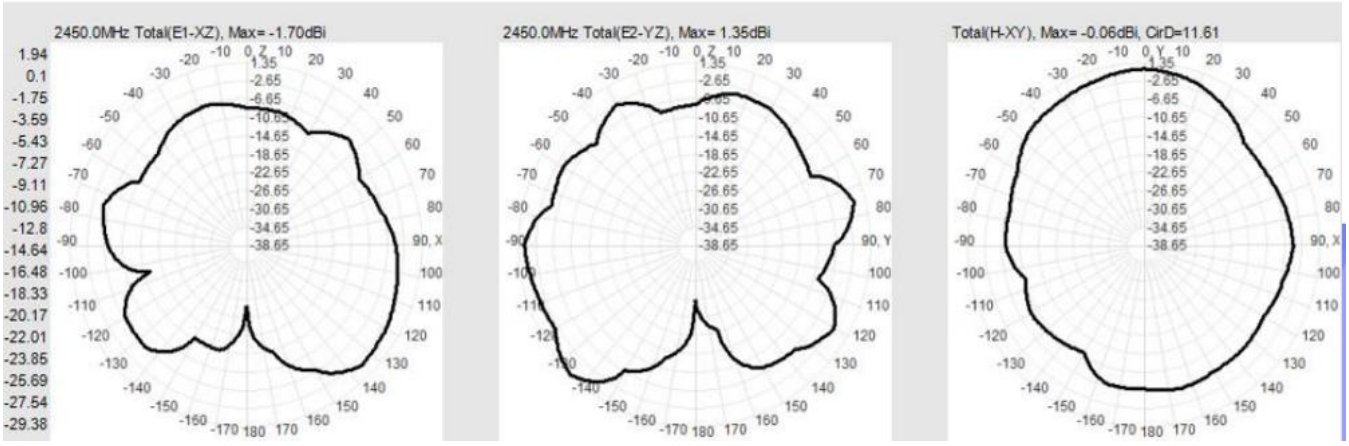
BT Test		R
CH	TRP	TIS
0	4.02	-90.65
39	4.15	-88.43
78	4.38	-88.67

BH Head model test
BH 头模测试

BT Test		R
CH	TRP	TIS
0	1.87	-87.23
39	1.95	-86.11
78	2.04	-85.32

2D&3D——BT- ANT





4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8