

Sample Approved Sheet

Hetuo（BT0032-V10）Acknowledgment

Customer Name Jinshang Technology (Shenzhen) Co., Ltd

Client Type BS531Z2L-1

Brand HT-BT0032-V10

Hetuo Judgment Audit Team

Formulate	Check	Ratify	Acknowledge the book completion time
Zhongxiaoming	Huxuewen	Daitingting	2023.08.07

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			

Items	date	edition order	revision note	remarks
1	2023.8.7	A0	For the first time	

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **HT-BT0032-V10**. The **HT-BT0032-V10** antenna 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:

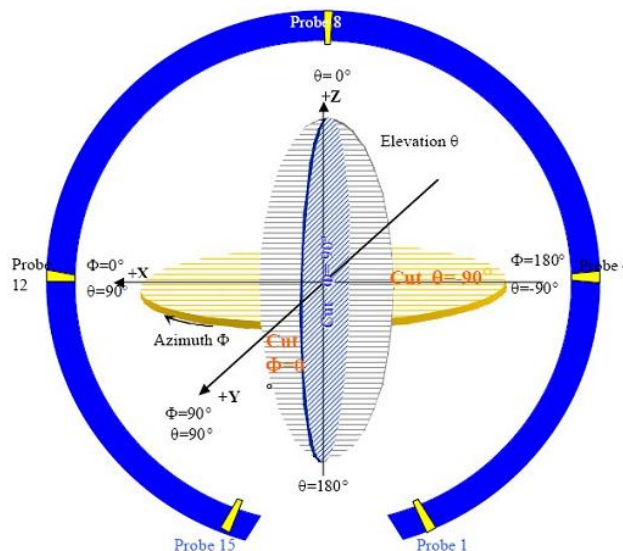


图4 3D微波暗室测试坐标系 (back view)

3. Electrical Specification

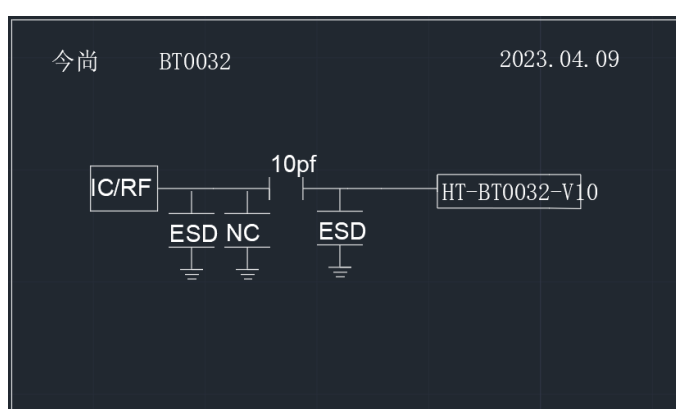
3-2 Passive S11 parameter

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

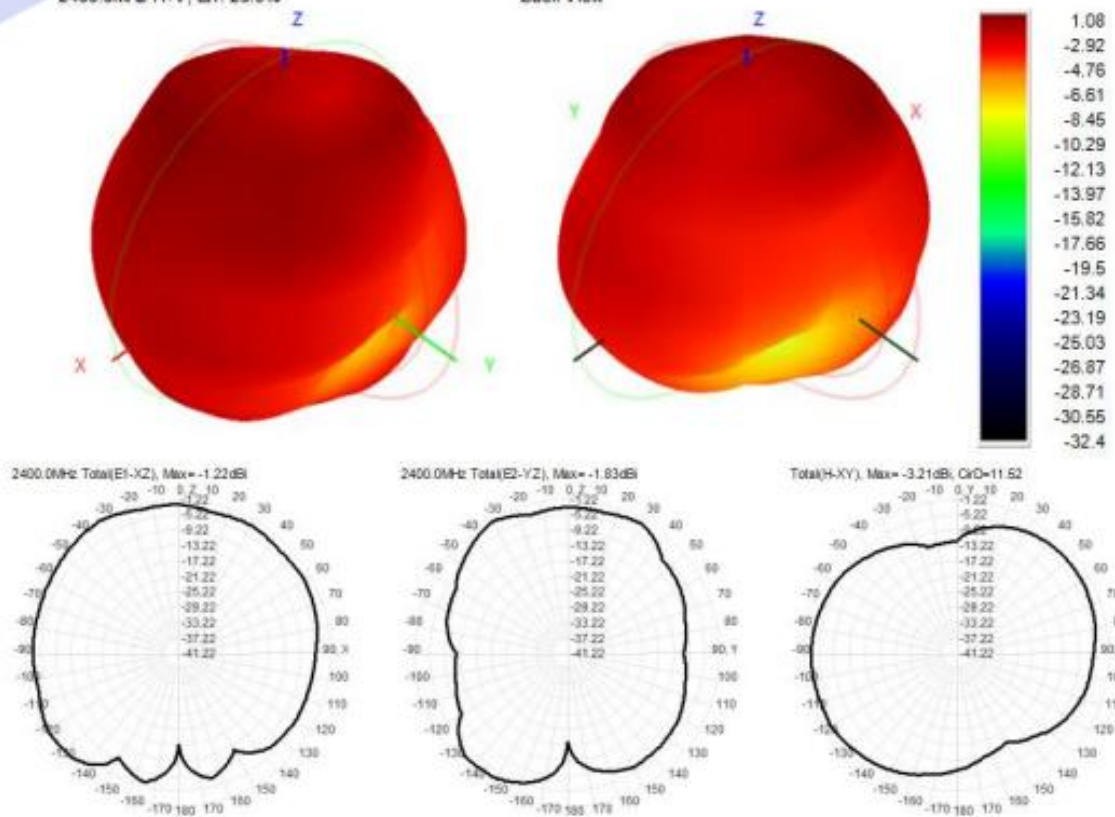


Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	25.87	1.08
2410	27.61	1.32
2420	28.32	1.29
2430	29.67	1.35
2440	31.92	1.43
2450	32.40	1.26
2460	30.91	1.24
2470	29.45	1.31
2480	28.49	1.34
2490	27.18	1.27
2500	26.41	1.38

2D&3D — BT- ANT

2400.0MHz H+V, Eff: 25.9%

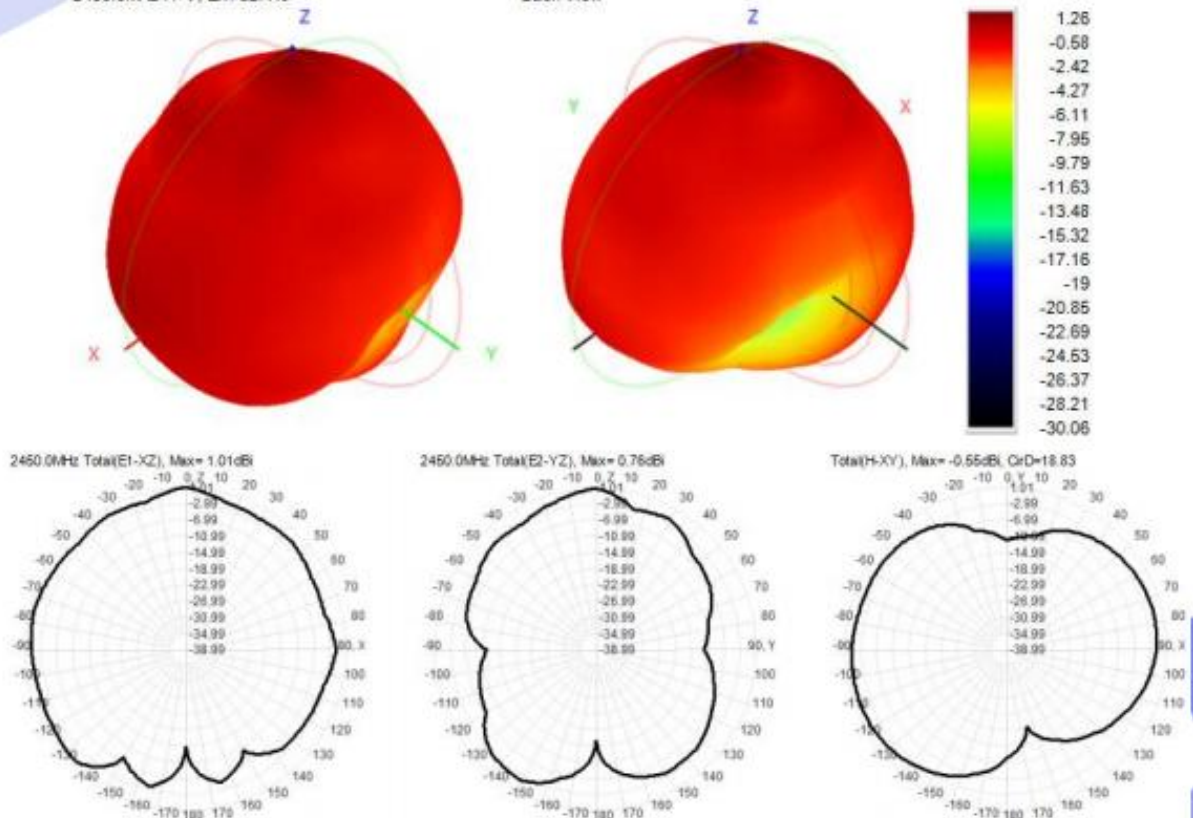
Back View

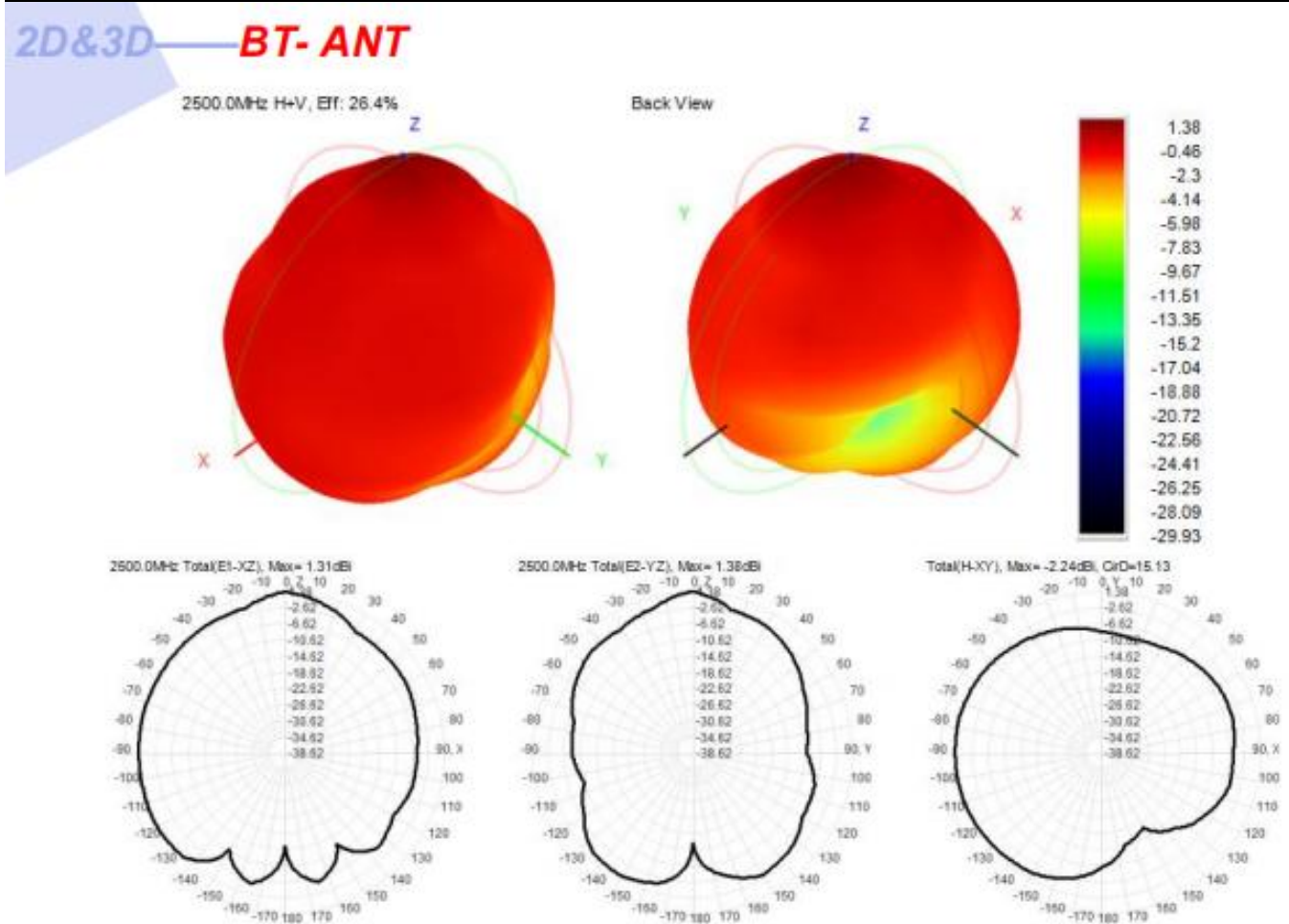


2D&3D — BT- ANT

2450.0MHz H+V, Eff: 32.4%

Back View

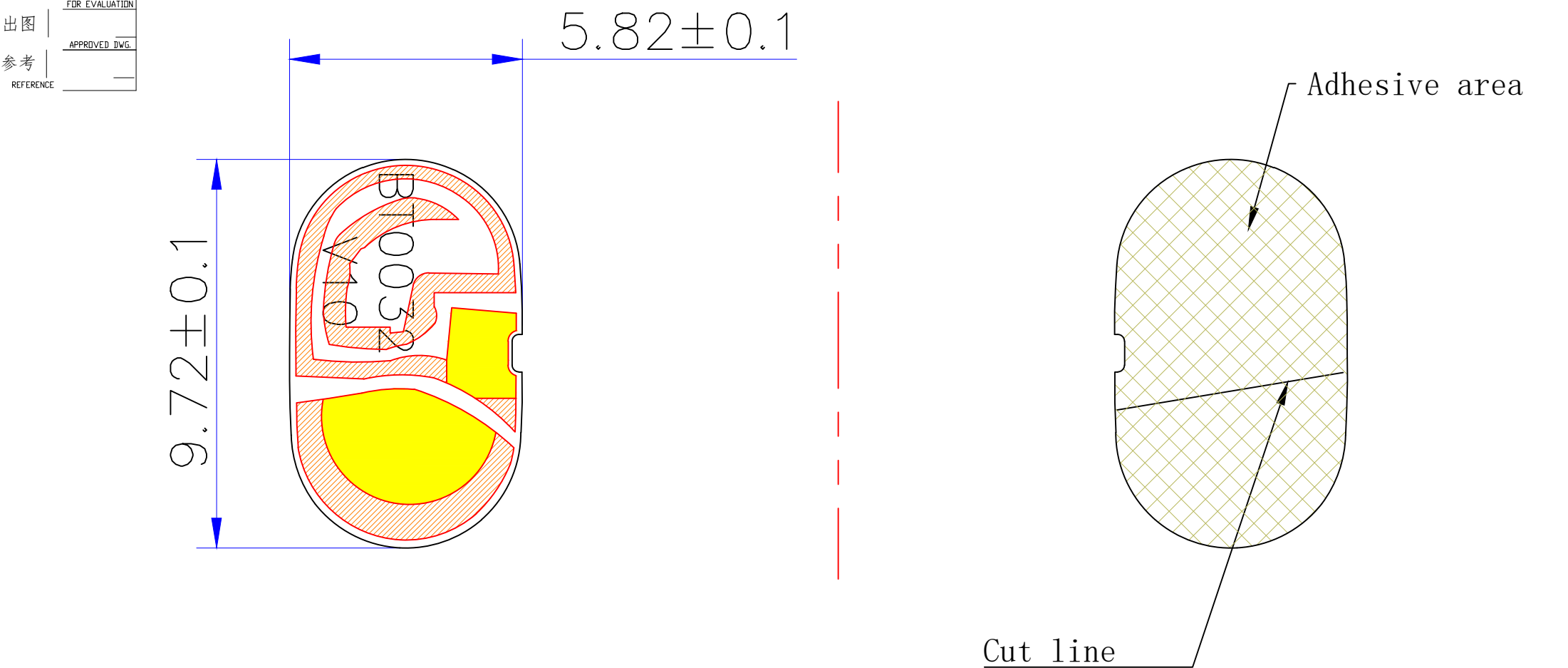




4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8



- Technical requirements:
1. It must comply with EU RoHs and REACH, as detailed in the appendix;
 2. Single machine usage: 2PCS
 3. FPC copper wiring section on side A, while side B represents the use of 3M 9471 adhesive backing
 4. The total thickness of FPC is 0.11-1.15mm (excluding adhesive release paper), and the contact point needs to be processed with a 3-mil gold deposition process
 5. Please use PI1 half substrate, electrolytic copper; Surface black ink line printed in white
 6. The ink does not contain carbon or metal particles, and the surface is UV resistant and UV resistant;

Shenzhen Hetuo Technology Co., Ltd										Drawn:	
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										Checked:	
										Approved:	
										PART NAME:	
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										Customer Rev:	
										BT0032-BT	
										Version	
										SHEET 1 OF 1	
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