

深圳市合拓科技有限公司

样品承认书

Sample Approved Sheet

合拓（EF906）承认书

客户名称: 深圳市芯中芯科技有限公司

客户料号: 1010205012

客户规格: PCB/FPC/HT-EF906-R-V3/两层沉金/黑色/30.06*13.76*0.1mm/合拓

原厂料号: 20230323001

品 牌 : 合拓自产 HT-EF906-R-V3

包装方式: 1.纸箱

丝印说明:

合拓科技 判定审核组

制订	审核	批准	承认书完成时间
钟晓鸣	胡雪文	戴庭庭	2023.03.01

芯中芯（客户）判定审核组

承认书编号

承认书提供时间

承认	审核	批准	承认日期
评审项目: ☐ 承认书 3 份 ☐ 规格书/图纸 ☒ 检测报告 ☐ 样品__PCS ☐ 安规 ☐ HSF			
评审结果: ☐ 接受 ☐ 有条件接受 ☐ 拒绝			

项次	日期	版次	修订说明	备注
1	2023-03-01	A0	首次发行	
2				

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of HT-EF906-R-V3. The HT-EF906-R-V3 antenna is a BT Band . The antenna Picture and assembly are shown below.

LDS 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:

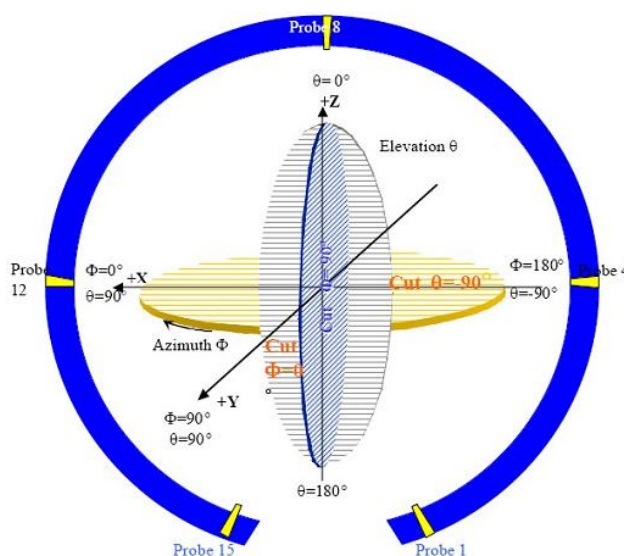


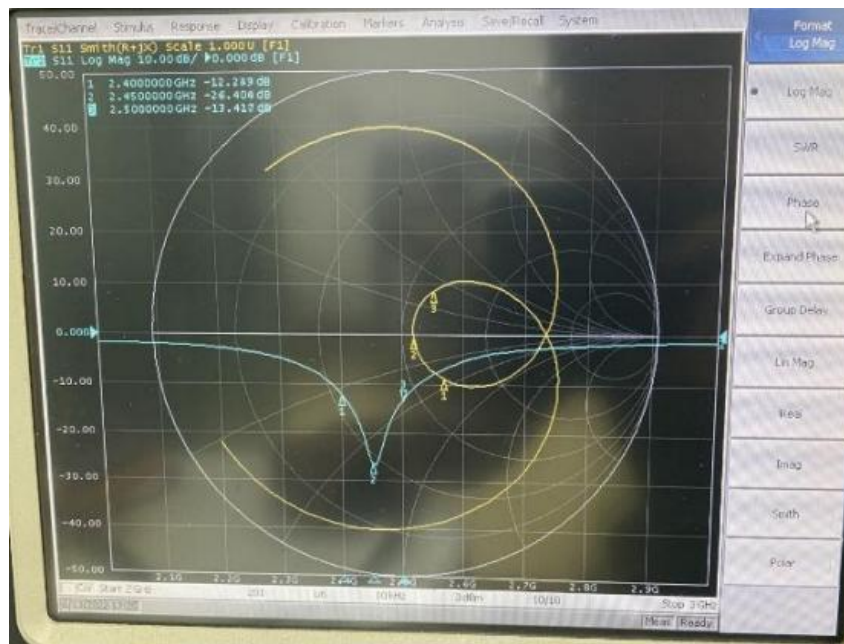
图 4 3D 微波暗室测试坐标系 (back view)

3. Electrical Specification

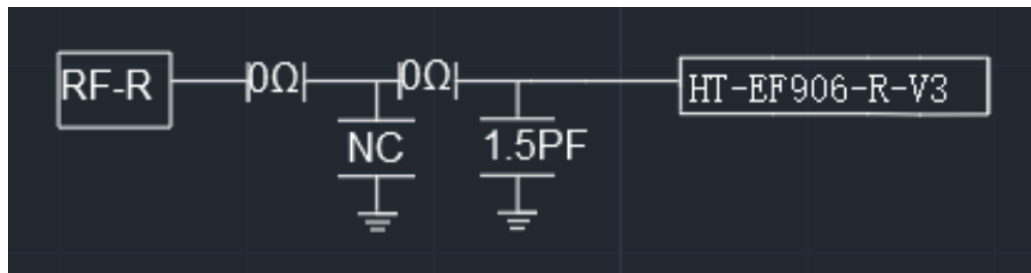
3-2 Passive S11 parameter

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

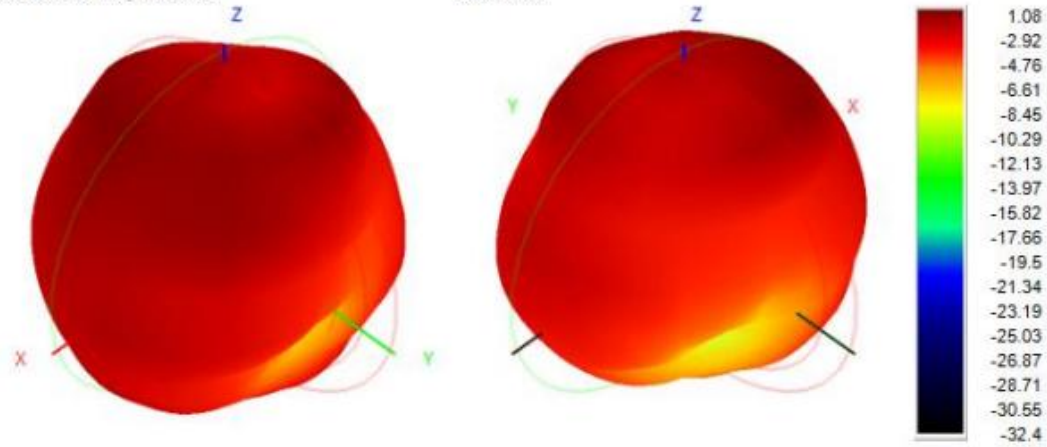


Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	25.87	1.08
2410	27.61	0.88
2420	28.32	0.59
2430	29.67	0.38
2440	31.92	0.47
2450	32.37	1.26
2460	30.91	1.42
2470	29.45	1.11
2480	28.49	1.34
2490	27.18	0.78
2500	26.41	1.38

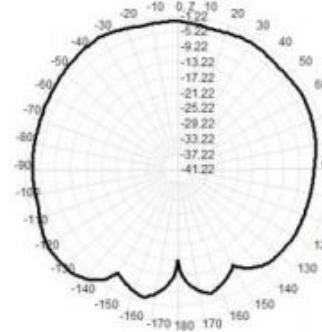
2D&3D — BT- ANT

2400.0MHz H+V, Eff: 25.9%

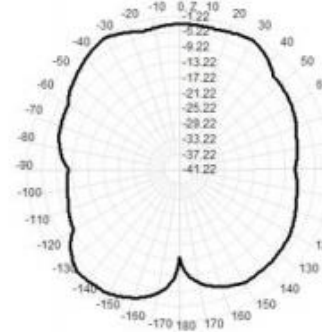
Back View



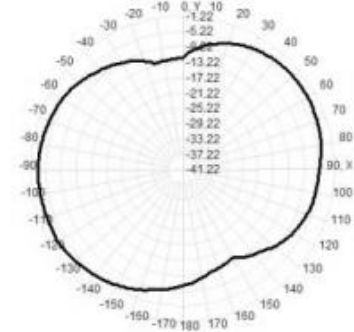
2400.0MHz Total(EI-XZ), Max=-1.22dBi



2400.0MHz Total(E2-YZ), Max=-1.83dBi



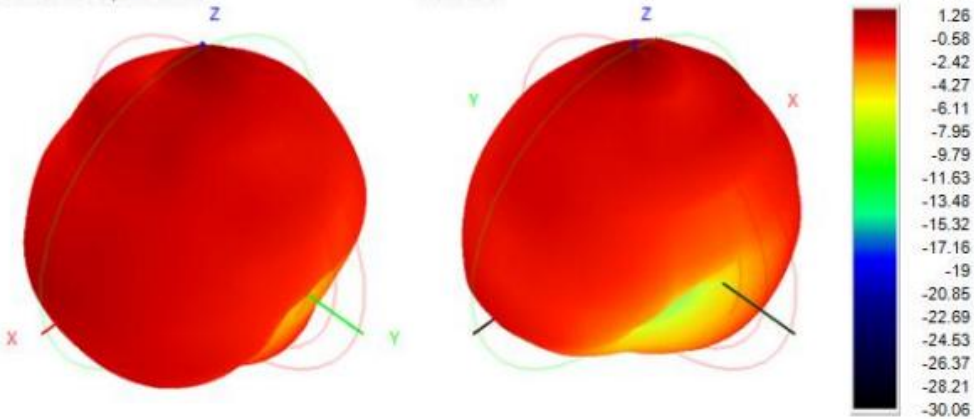
Total(H-XY), Max=-3.21dBi, CrD=11.52



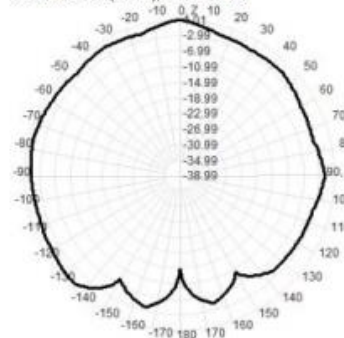
2D&3D — BT- ANT

2450.0MHz H+V, Eff: 32.4%

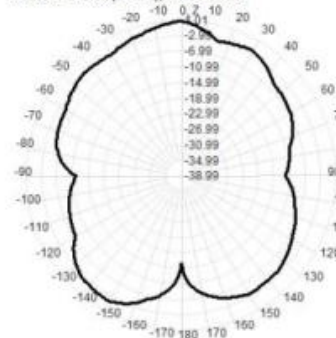
Back View



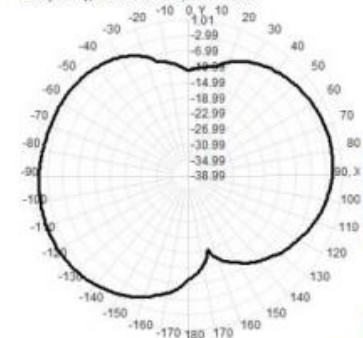
2450.0MHz Total(EI-XZ), Max=1.01dBi



2450.0MHz Total(E2-YZ), Max=0.76dBi



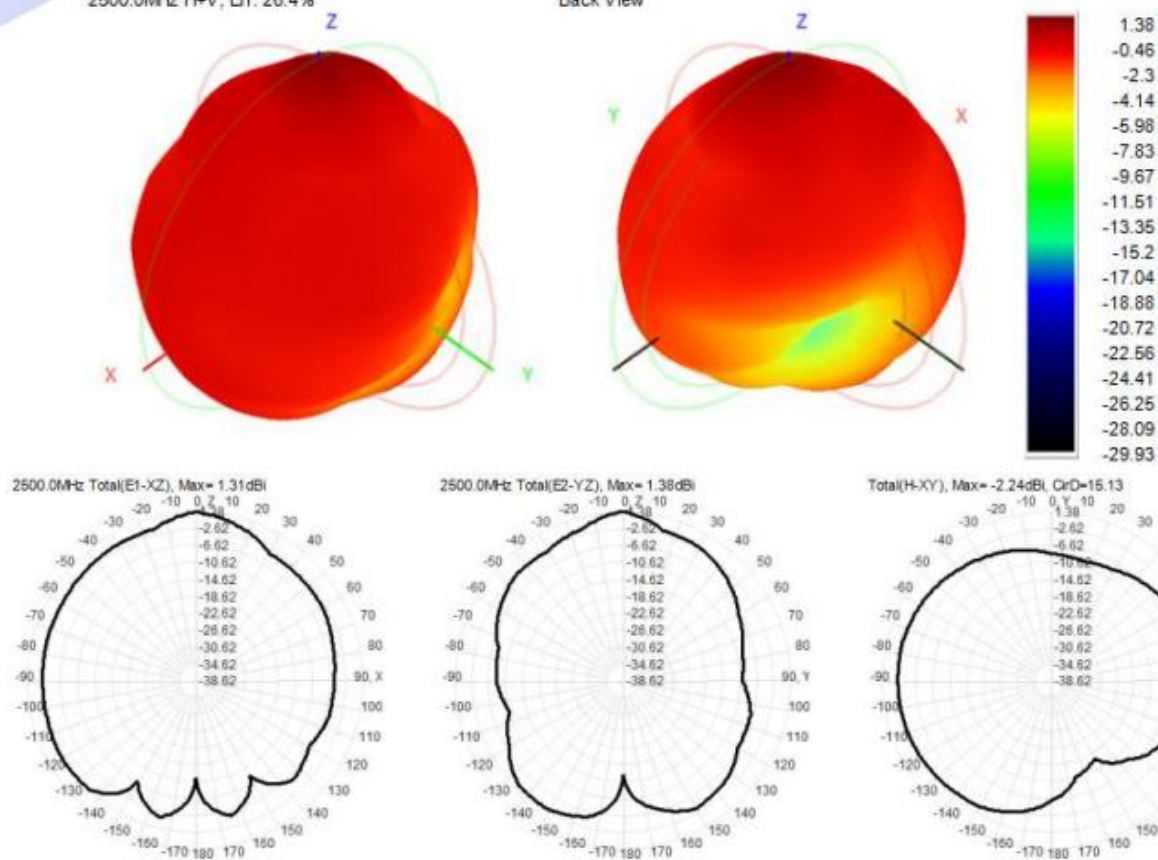
Total(H-XY), Max=-0.55dBi, CrD=18.83



2D&3D — BT- ANT

2500.0MHz H+V, Eff: 26.4%

Back View



4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8