

深圳市合拓科技有限公司

样品承认书

Sample Approved Sheet

合拓（A9）承认书

客户名称 深圳市中天电子开发有限公司

客户机型 A9

品 牌 合拓自产 HT-A9-V0

合拓 判定审核组

制订	审核	批准	承认书完成时间
钟晓鸣	吴寿平	戴庭庭	2024.11.11

中天（客户）判定审核组

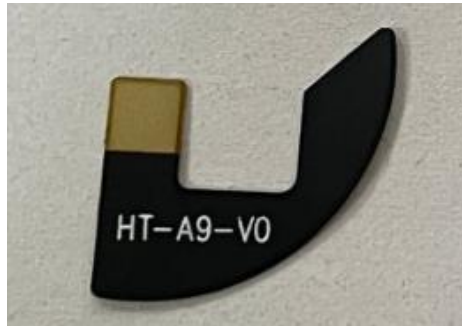
承认书编号 _____

承认书提供时间 _____

承认	审核	批准	承认日期
评审项目： <input type="checkbox"/> 承认书 3 份 <input type="checkbox"/> 规格书/图纸 <input type="checkbox"/> 检测报告 <input type="checkbox"/> 样品__PCS <input type="checkbox"/> 安规 <input type="checkbox"/> HSF			
评审结果： <input type="checkbox"/> 接受 <input type="checkbox"/> 有条件接受 <input type="checkbox"/> 拒绝			

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **HT-A9-V0**. The **HT-A9-V0** antenna is a **BT** Band. The antenna Picture and assembly are shown below.



FPC 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:

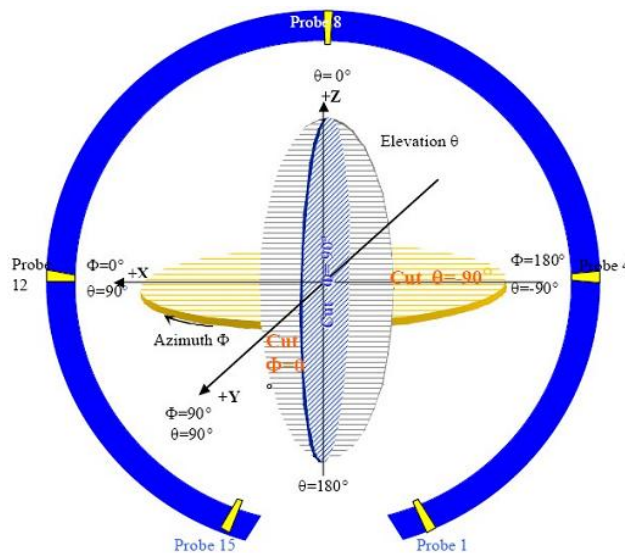


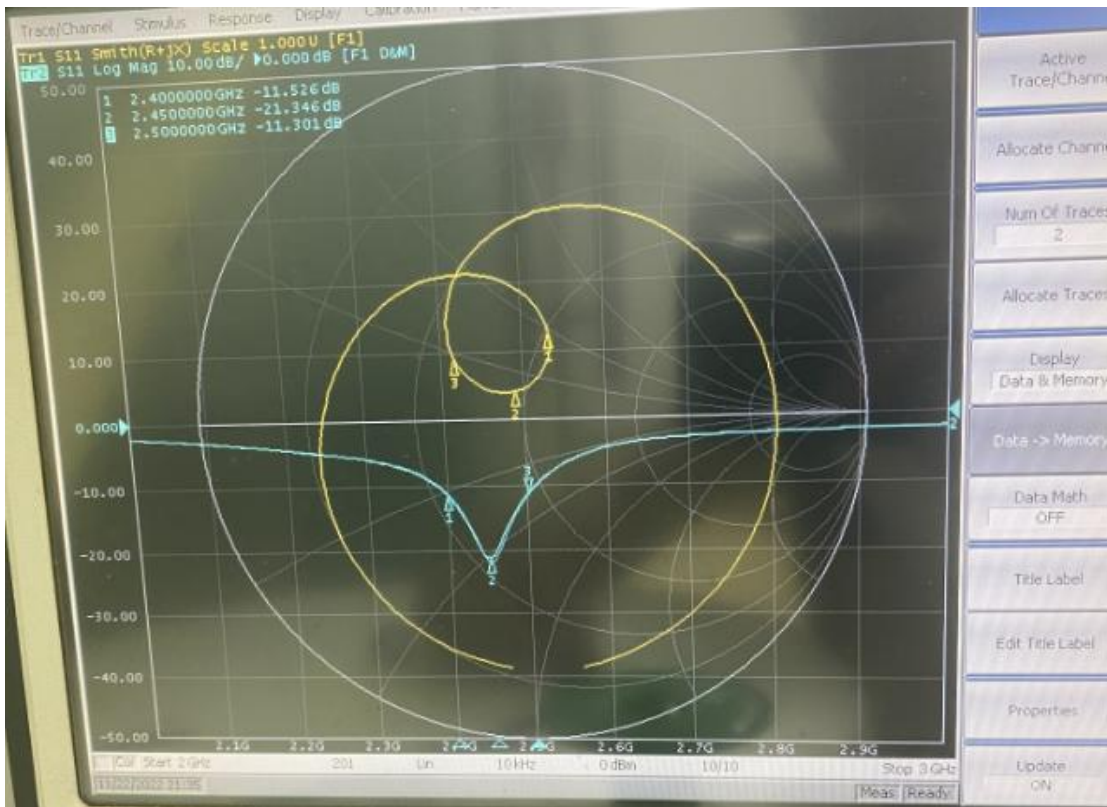
图 4 3D 微波暗室测试坐标系 (back view)

3. Electrical Specification

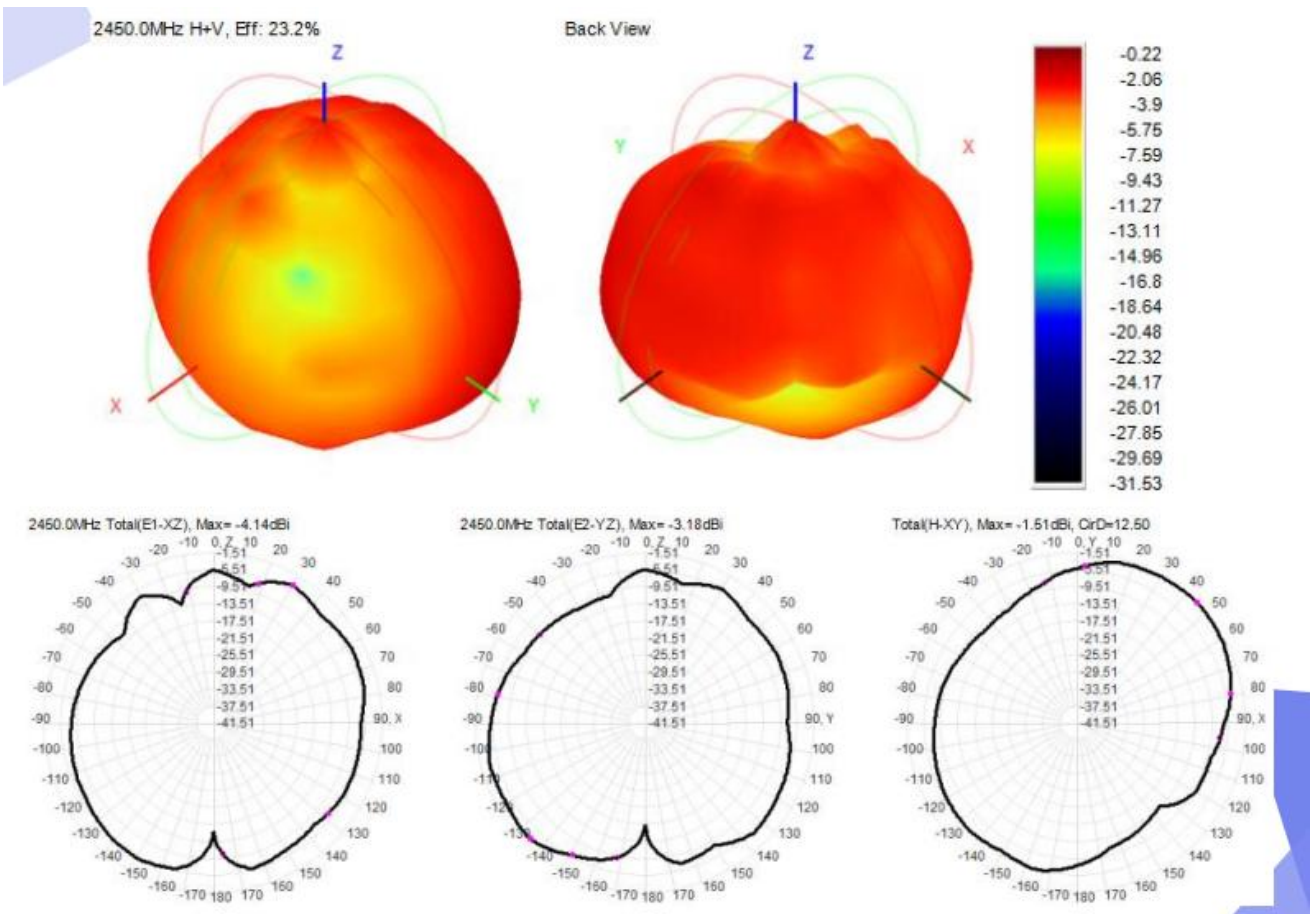
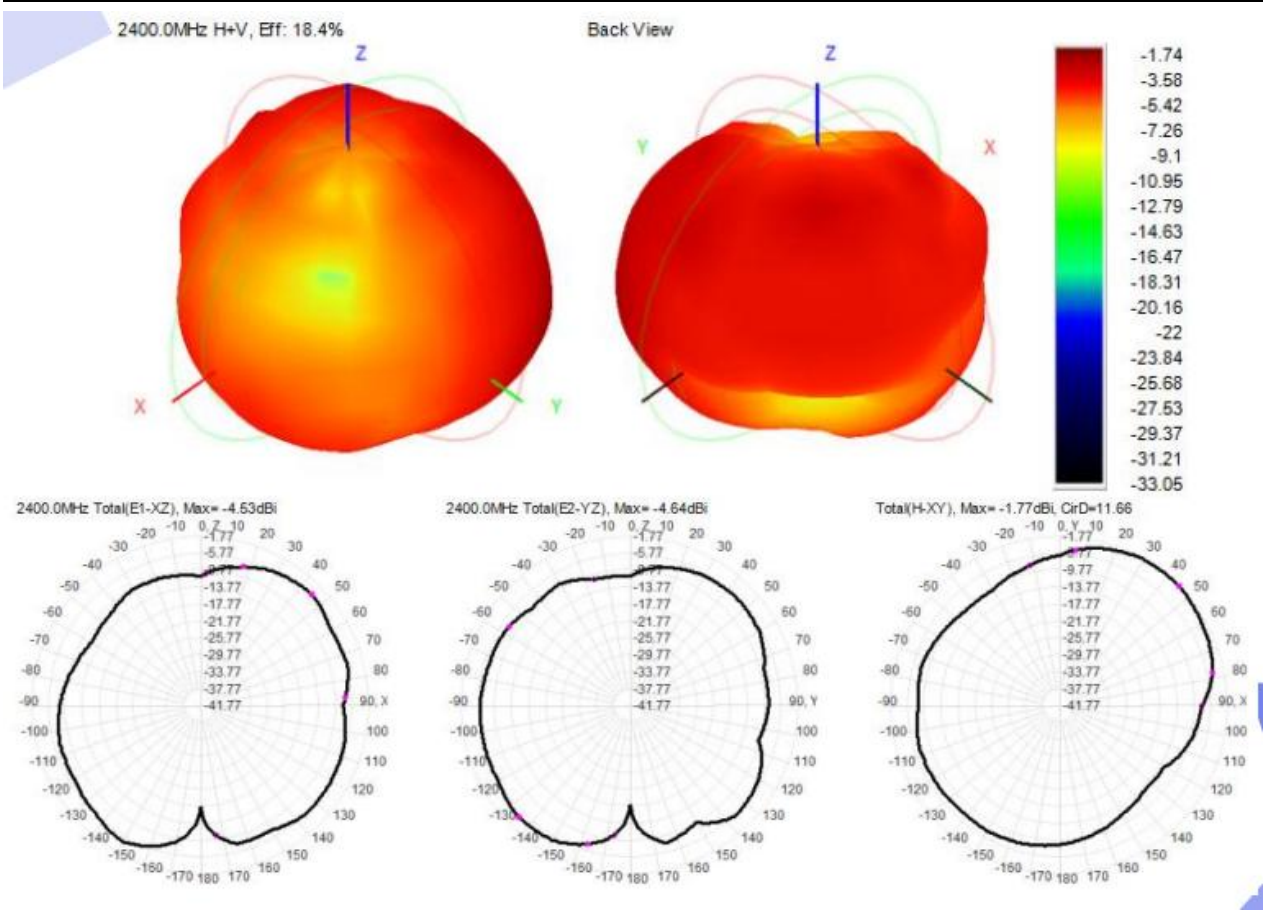
3-2 Passive S11 parameter

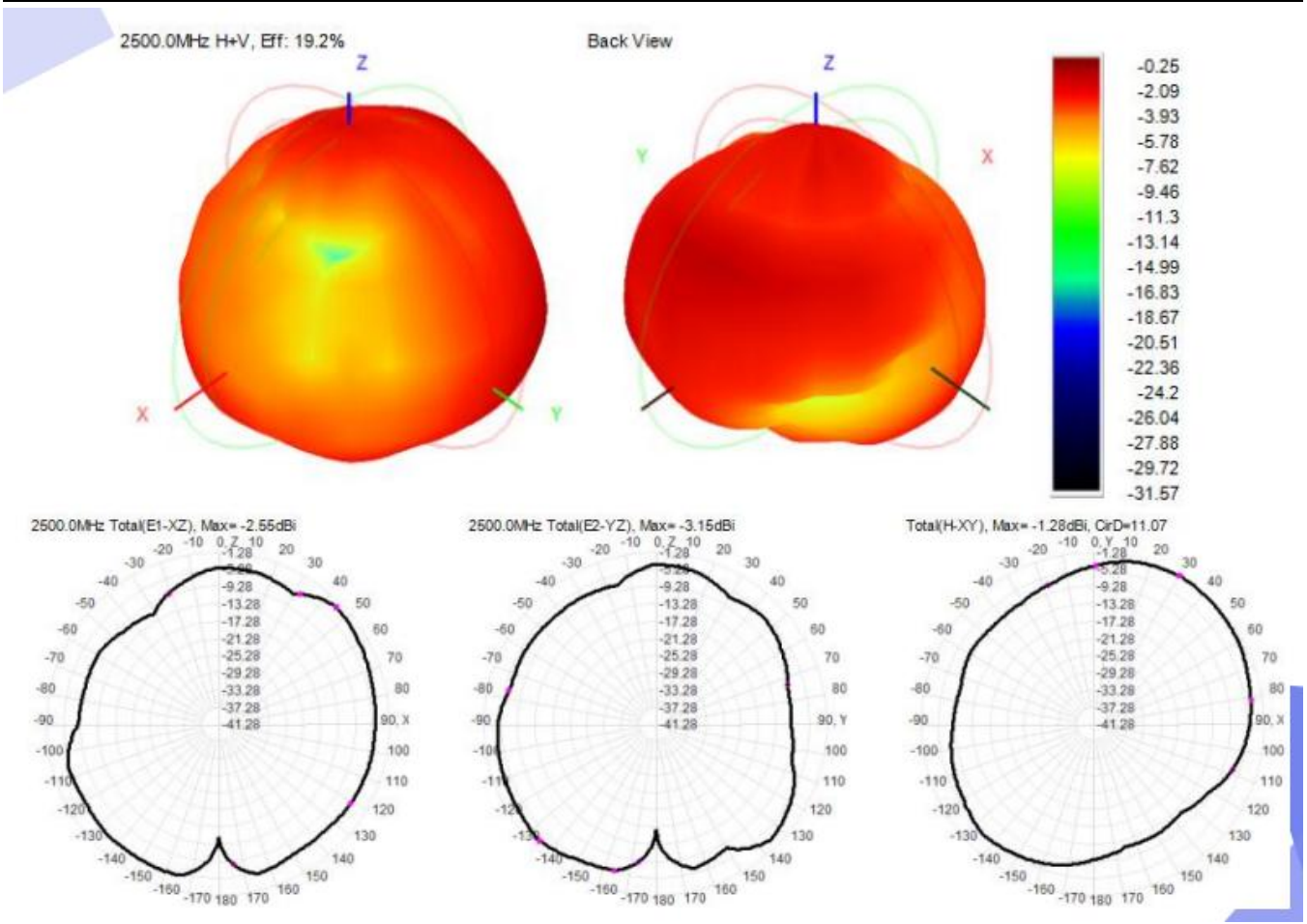
Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

VSWR



Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	18.39	0.74
2410	19.58	0.30
2420	20.40	0.50
2430	21.58	0.97
2440	22.11	0.55
2450	23.21	0.22
2460	23.88	0.36
2470	22.14	0.29
2480	20.58	0.34
2490	19.41	0.63
2500	19.21	0.25





4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 10

