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## Antenna data sheet

Antenna Type: FPC antenna

Antenna Model: HZ1284

Peak Gain: 1.17dBi

**Manufacturer: Shenzhen Blue Sea Navigation Technology Co., LTD**

**Address: No.17 Huating Road, Shuiwei Community, Dalang Street, Longhua District, Shenzhen  
Plant 303**

## Summary

This report summarizes the electrical results of the antenna to support the wireless projection test fixture for further testing, as follows:



## 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:

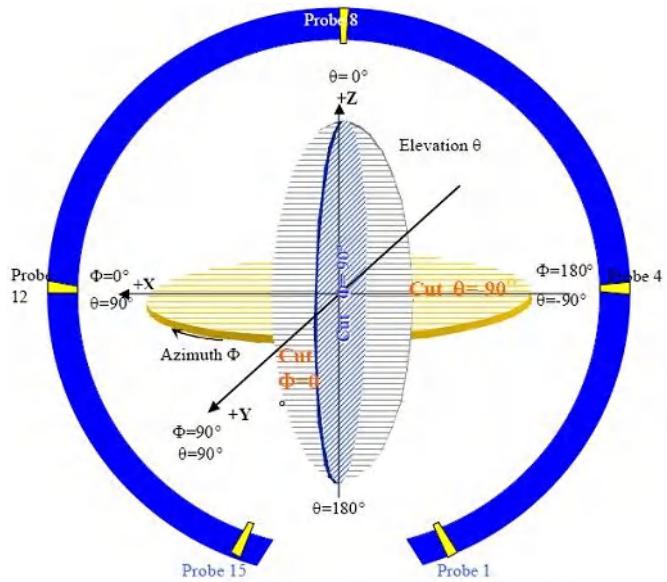
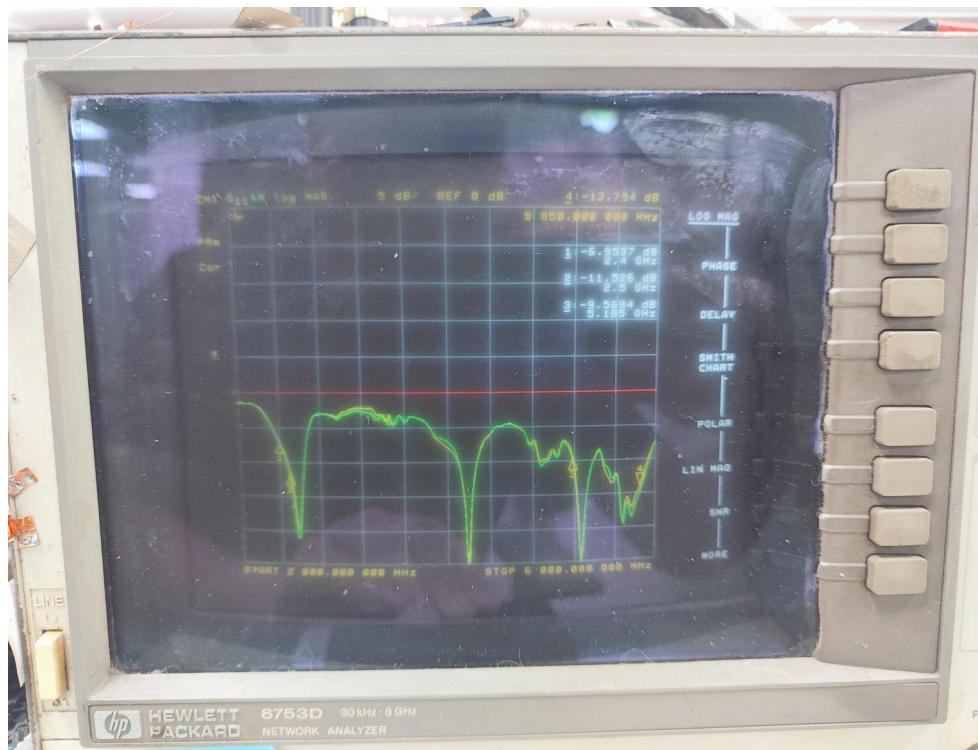
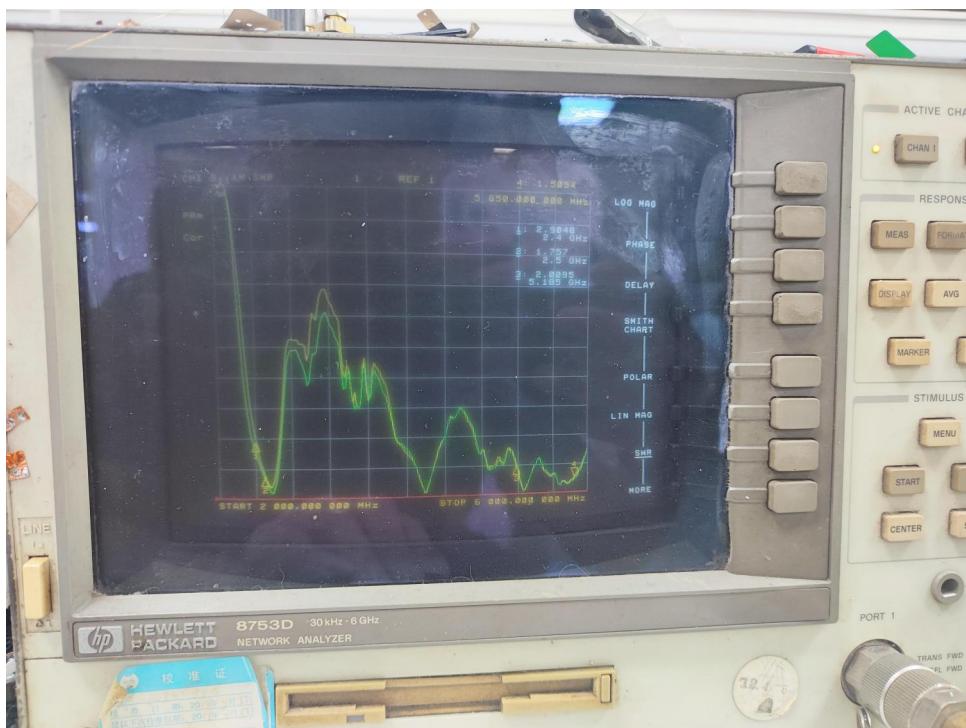


图 4 3D 微波暗室测试坐标系 (back view)

# Electrical Specification

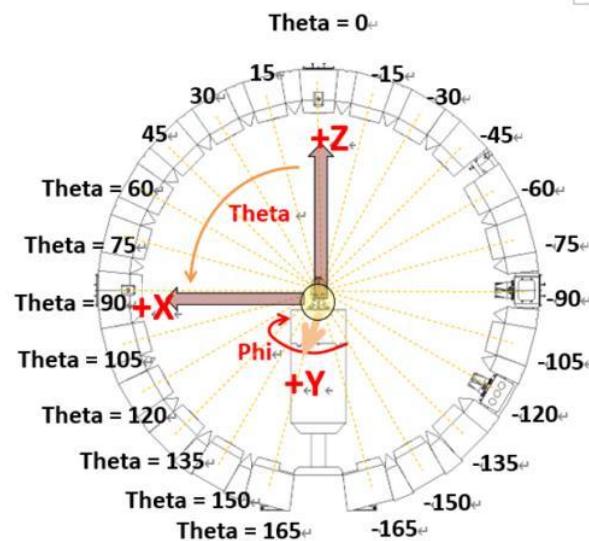
## Passive S11 parameter

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.



## Gain & Efficiency

### Sample status & coordinates



Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	38.98	-4.09	-0.1
2410	42.43	-3.72	0.32
2420	43.22	-3.64	0.57
2430	43.72	-3.59	0.61
2440	44.86	-3.48	0.71
2450	47.85	-3.2	1.05
2460	47.79	-3.21	1.14
2470	46.34	-3.34	0.98
2480	46.81	-3.3	1.17
2490	48.53	-3.14	1.39
2500	46.06	-3.37	1.1

# Antenna Engineer drawing

注：

1. 材料:PPC, 基材:18/25, 表面颜色为亚光黑, 丝印黑色亮油。
2. 反面整体背胶类型:3M-9471LE, 总厚度<0.12MM。
3. 表面不可以有污染物、擦伤、黑点。
4. 僵硬厚度为2.6mm, 不可有僵硬后易断裂及脱落, 导通不良, 电路部分断敏等不良现象。
5. 背胶需要够热冲击实验; 安装条件: -40~-+85摄氏度 16个周期 (一周期为30分钟)。
6. 该图为原尺寸比例图, \*为重点管控尺寸

注：所有孔均为通孔，红色线为打断线。

GENERAL TOLERANCE TABLE					
LINEAR(MM)	ANGULAR	DIVISION	DIVISION	TOLERANCE	
0~10	±0.05	0~3.0度	±1°	THE MATERIAL	DATA
10~24	±0.07	30~90度	±2°	COMBODUCT NAME	2025/07/12
24~50	±0.10			PRODUCT NO	张工
50~80	±0.13			MATERIAL	VERIFY
OVER 80	±0.20			SCALE	陈工
				SIZE	APPROVE
				mm	2025-10-00
				A4	SHEET
				1 of 1	

