

	D33-FPC 天线-L	 RoHS Compliant
Date of Issue: 2025-9-23		 ESD Sensitive
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样品承认书

Sample Approved Sheet

产品描述说明: Product Description:	D33-FPC 天线-L
客 户 料 号: Customer part number	
客户规格描述: Customer specification description:	
公司内部编码: Internal company code:	
版本: Software version:	V.3
公司规格描述: Hardware description:	FPC 天线-YX-D33-L-V3-亚鑫

物料满足如下环保要求: The materials meet the following environmental requirements: ☒ 禁用及监控物质控制标准(最新版本) Banned and Monitored Substances Control Standard(Latest Edition) ☒ 无卤素技术标准 Halogen-free technical standard
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客户确认 Customer Approved (盖章) (Stamp)	采 购 Sourcing	品质管理部 DQ	研发 RD	批 准 Approved by

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Revision History							
Revision	ECO	Description	Date	Prep'd By	Ck'd By	Ck'd By	Appr'd By
V1.0		初始版本	2025-09-23	李良			

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1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **YX-D33-L-V3**. The **YX-D33-L-V3** 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:

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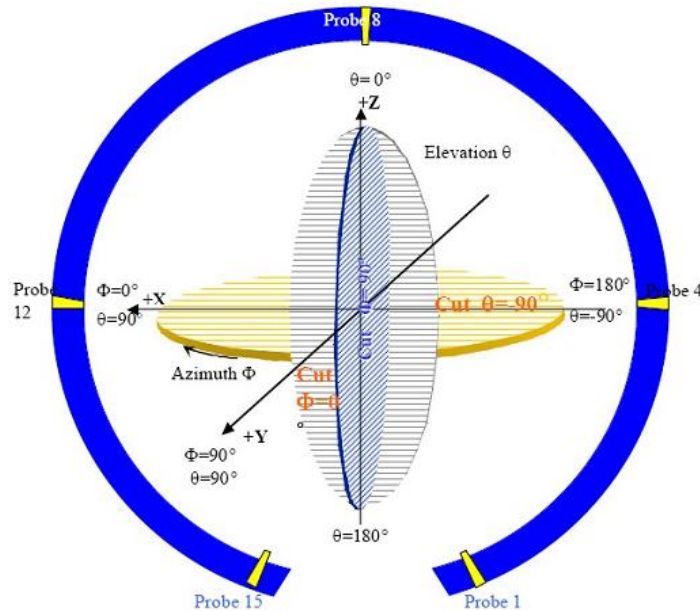
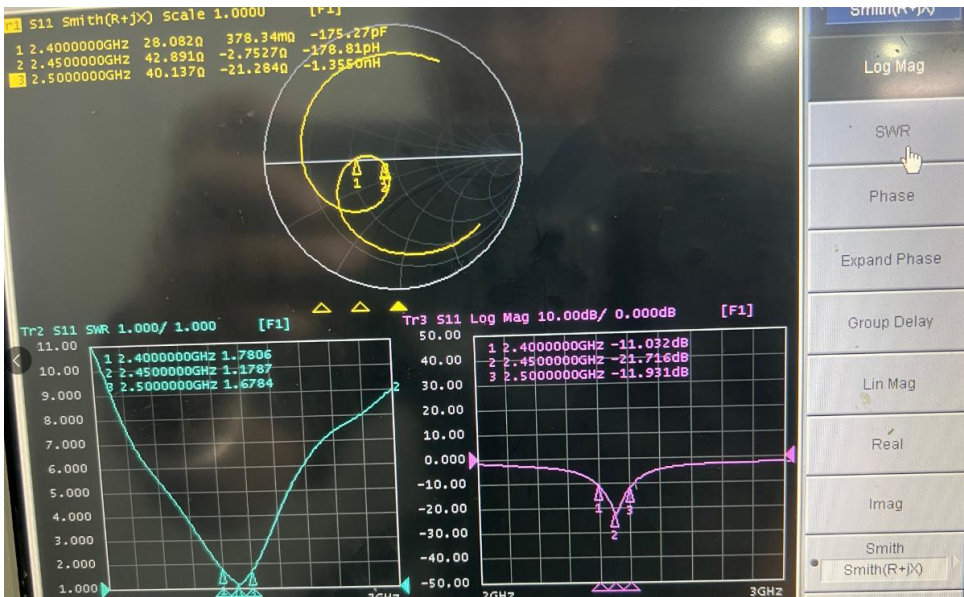


图 4 3D 微波暗室测试坐标系 (back view)

3. Electrical Specification

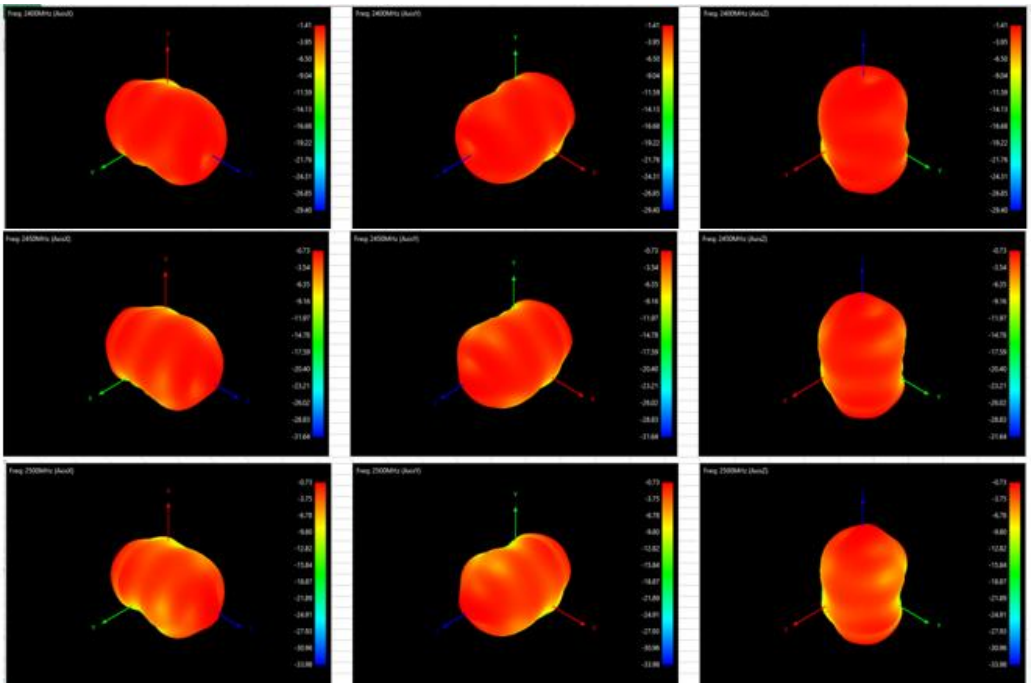
3-2 Passive S11 parameter

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 2D/3D field pattern diagram



3-4 Passive efficiency & Gain

Frequency(MHz)	Gain(dBi)	Efficiency(%)
2400	-1.41	37.59
2410	-1.39	36.93
2420	-1.39	36.38
2430	-1.38	35.85
2440	-1.09	35.29
2450	-0.73	34.62
2460	-0.45	33.68
2470	-0.4	32.27
2480	-0.38	30.85
2490	-0.49	29.43
2500	-0.73	27.9

顶设科技 <i>i-Top Design</i>	D33-FPC 天线-L	 RoHS Compliant
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3-5 OTA active

FS	BT TEST	L
CH	TRP	TIS
0	5.68	-90.55
39	5.33	-91.66
78	4.89	-91.54
BH	BT TEST	L
CH	TRP	TIS
0	2.45	-87.78
39	2.89	-88.32
78	3.24	-88.56

4. Mechanical Specification:

Mechanical Configuration (Unit: mm) he appearance of the antenna is according to drawing Figure 10

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