

	YX-HP1000-BT-V1.5	 RoHS Compliant
Date of Issue: 2026-04-13		 ESD Sensitive
Page (1) of (9)	iTD Drawing # 20260413	Revision #: Initial Release

样品承认书

Sample Approved Sheet

产品描述说明: Product Description:	HP1000
客 户 料 号: Customer part number	3.626.11.0055
客户规格描述: Customer specification description:	HP1000_FPC 天线
公司内部编码: Internal company code:	D7.TX100003
版本: Software version:	V1.5
规格描述: Hardware description:	FPC 天线-YX-HP1000-BT-V1.5-四代 IPEX 端子 -线径 0.64MM-线长总 30MM-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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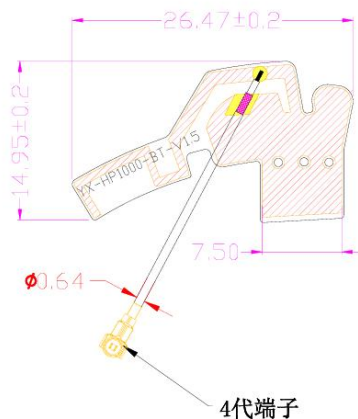
供应商确认 Vender Confirm (盖章) (Stamp)	制 作 Prepared by	审 核 Checked by	批 准 Approved by

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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1. Antenna picture

Thereportmainly provides the test status oftheelectricalproperties parametersof**YX-HP1000-BT-V1.5**The **YX-HP1000-BT-V1.5** 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:

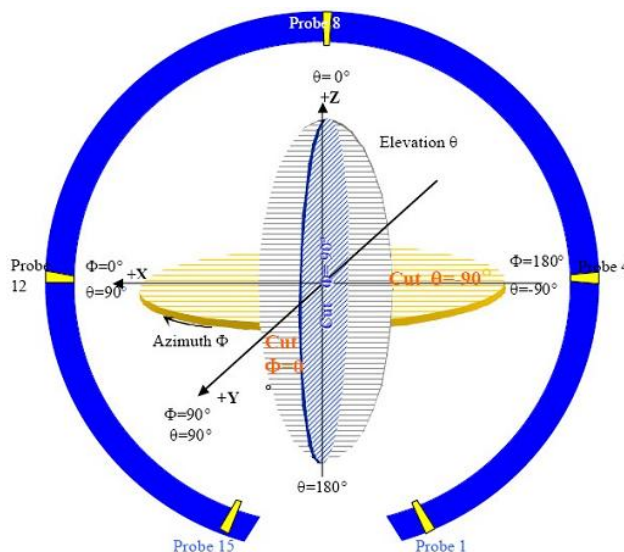


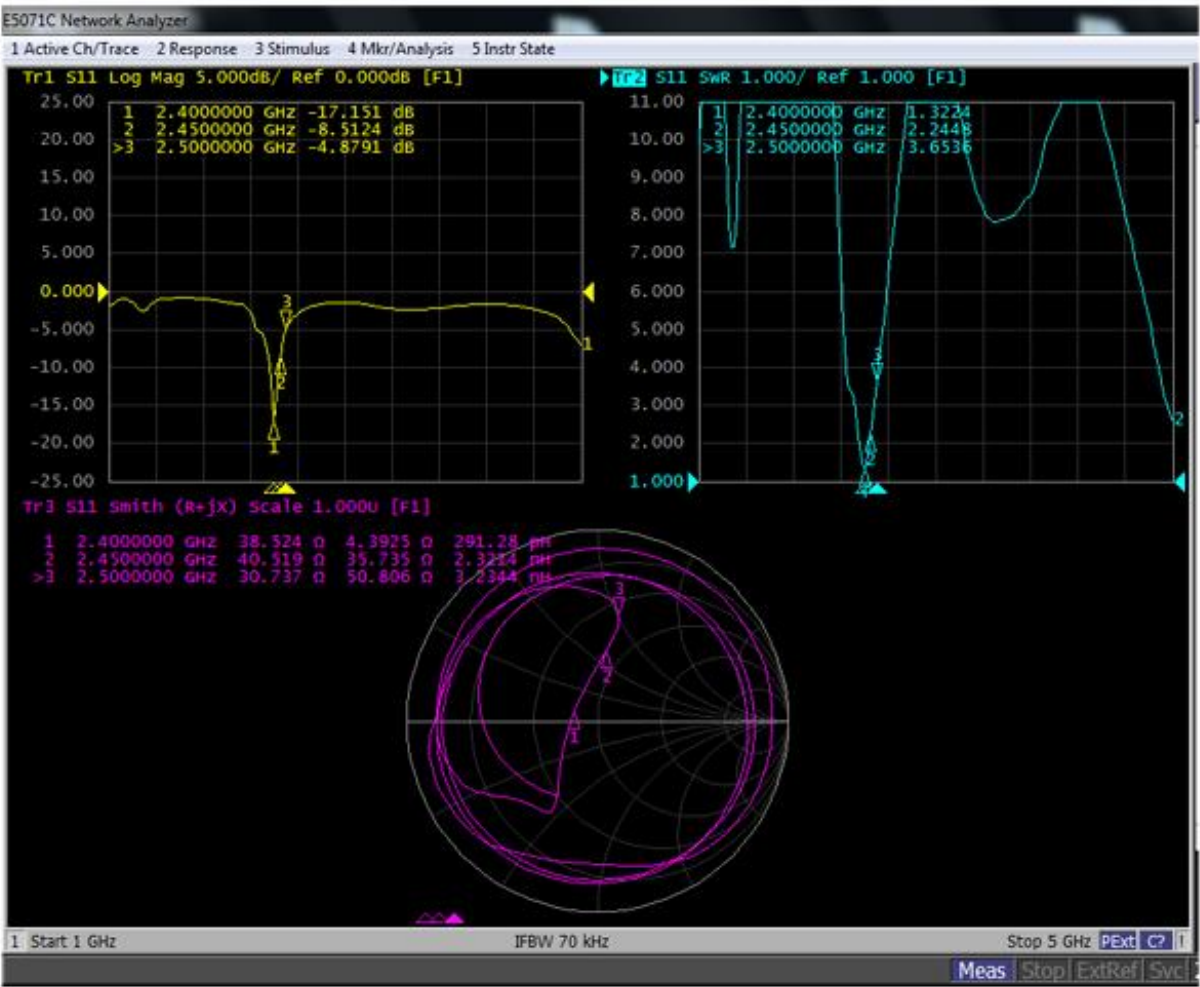
图 4 3D 微波暗室测试坐标系 (back view)

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3. Electrical Specification

3-2 Passive S11 parameter

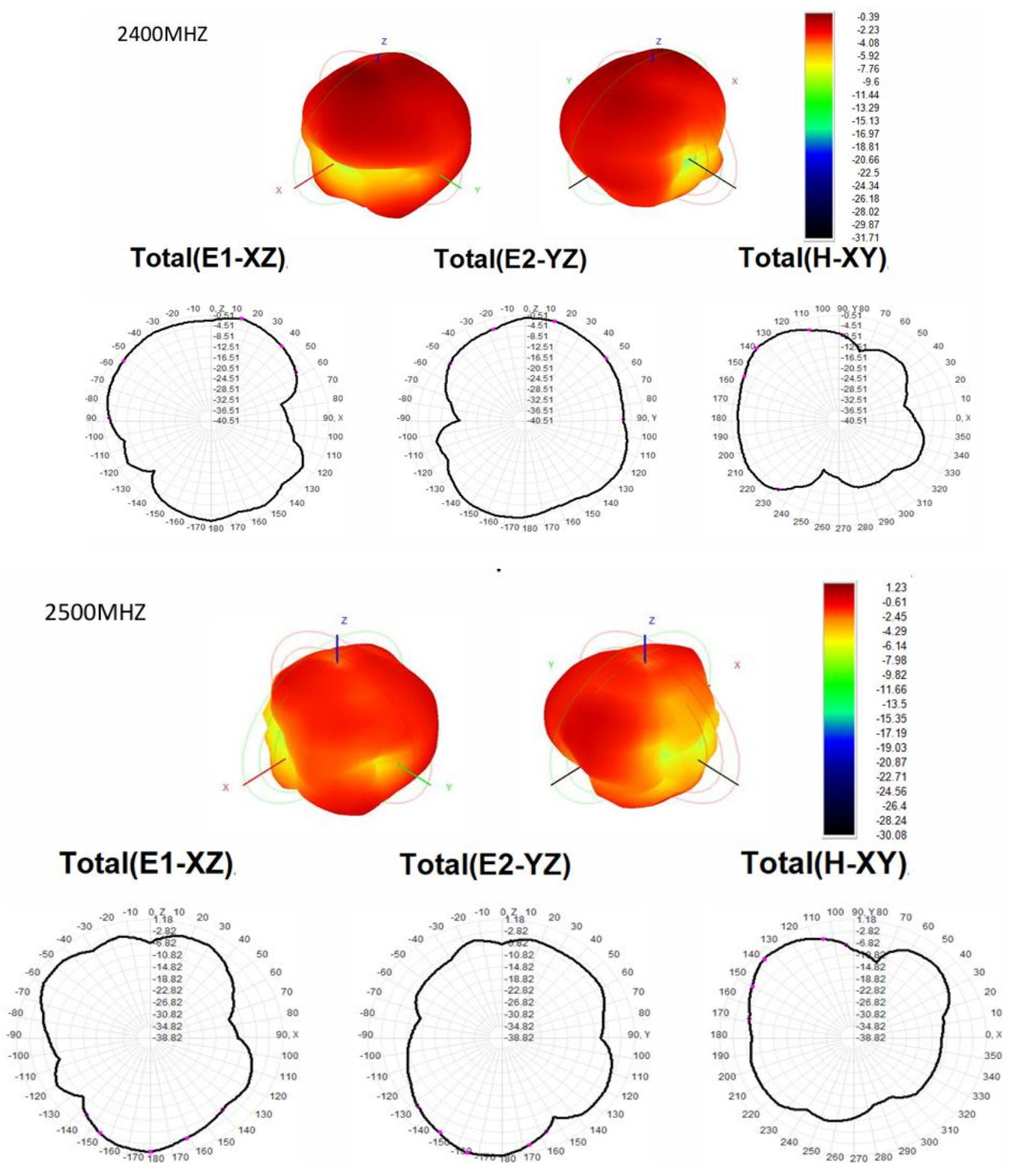
Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



VSWR

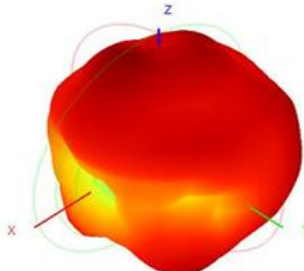
顶设科技 i-Top Design	YX-HP1000-BT-V1.5	Pb RoHS Compliant
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3-3 2D/3D field pattern diagram

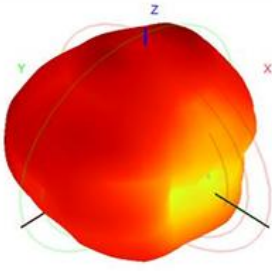


顶设科技 i-Top Design	YX-HP1000-BT-V1.5	Pb RoHS Compliant
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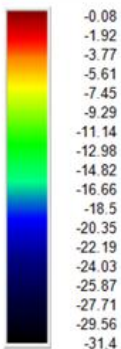
2450MHZ



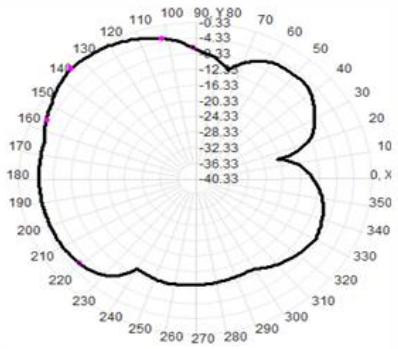
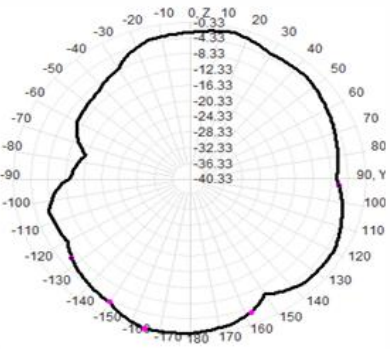
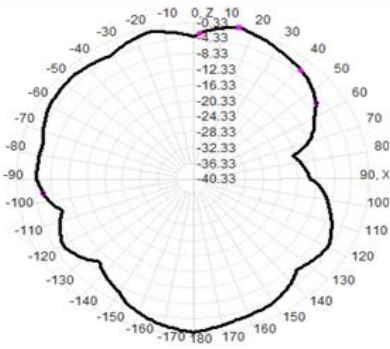
Total(E1-XZ)



Total(E2-YZ)



Total(H-XY)



3-4 Passive efficiency & Gain

2400MHZ-2500MHZ		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	-0.39	28.57
2410	-0.08	30.46
2420	0.20	31.99
2430	0.30	33.05
2440	0.08	32.85
2450	-0.08	32.34
2460	0.64	31.82
2470	0.97	31.19
2480	1.06	30.86
2490	1.18	30.34
2500	1.23	30.11

3-5 OTA active

OTA有源			
Test Condition			
band	Channel	TRP (dBm)	TIS (dBm)
自由空间	0	8.32	-89.09
	39	8.70	-89.49
	78	7.94	-88.37
头模	0	6.71	-88.41
	39	6.71	-87.81
	78	6.35	-87.31

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