东莞市艾微科技有限公司
Dongguan ivy technology co.,LTD.

承 认 书

客户名称：	微 网优联
客戶项目名称：	佩奇系列
客户料号：	51010089
物料名称：	2.4~2.5GHz /3.9dBi/LP/2W/I-PEX/45mm/D1.13MM/PCB 天线/灰色馈线/佩奇系列/
艾微料号：	VW01-N040020
日期：	2022-2-21
版别：	X1

本司地址：东莞市松山湖园区科技二路 8 号一栋 2 单元 303 室 （中科创新广场 E 座）

本司确认：

检查	审核	批准
吴娟	徐志强	方以竞

客户确认：

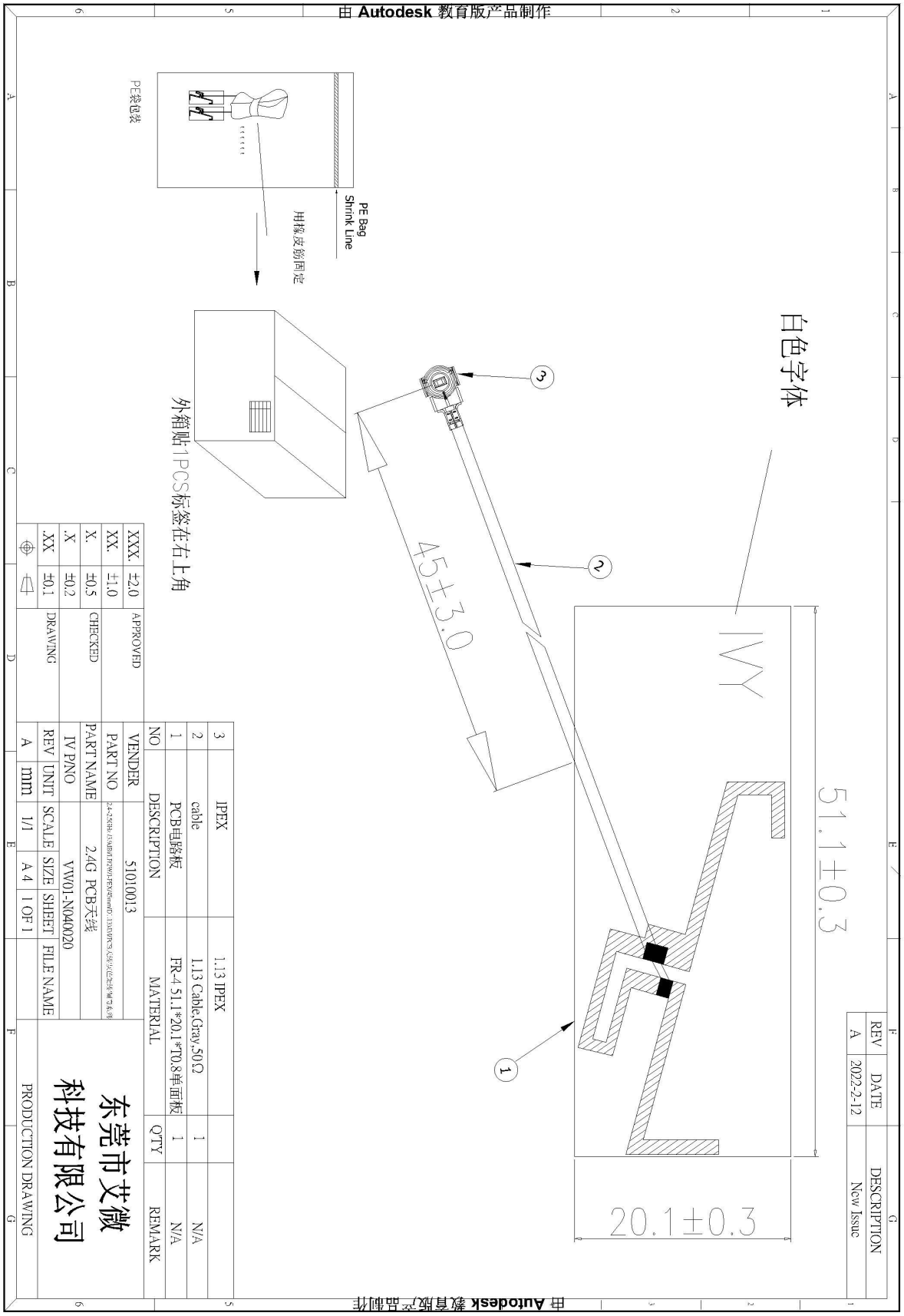
检查	审核	批准

1、规格表：

主要技术指标		Main technical specifications	
频率范围 (MHz)	2400~2500	Frequency Range (MHz)	2400~2500
特性阻抗(Ω)	50±5	Impedance(Ω)	50±5
增益(dBi)	3.5±0.5	Peak Gain(dBi)	3.5±0.5
输出电压驻波比	Max 2.0	VSWR	Max 2.0
最大功率	2W	Admitted Power	2W
极化方式	线性极化	Polarization	Linear Vertical
方向性	全向	Radiation	Omni-directional
连接方式	端子	Connector Type	IPEX
物理性能		Physical Properties	
天线線材	1.13 灰色	Antenna cable	1.13Gray Cable
工作温度	-40℃~+60℃	Operating Temp	-40℃~+60℃
保存温度	-40℃~+60℃	Storage Temp	-40℃~+60℃

制造商：东莞市艾微科技有限公司
Manufacturer：Dongguan ivy technology co.,LTD.
地址：东莞市松山湖园区科技二路8号一栋2单元303室
Address：Room 303, Unit 2, Building 1, No. 8, Keji 2nd Road,
Songshan Lake Industrial Park, Dongguan City

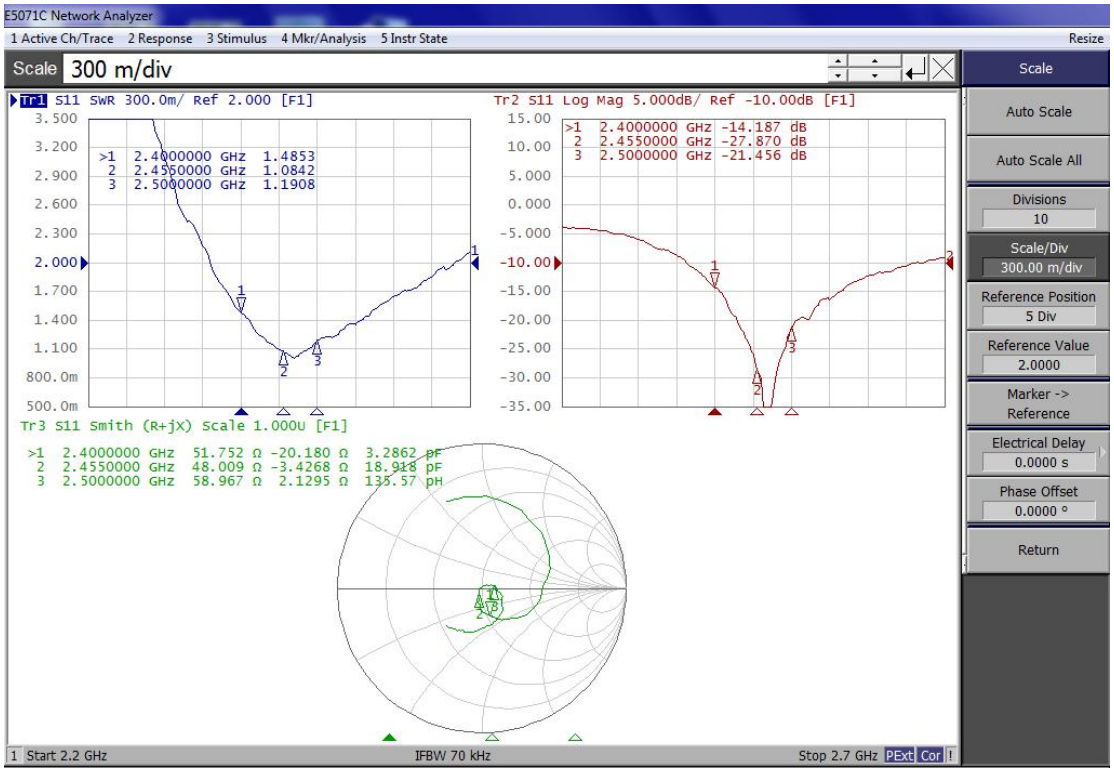
2.4G 产品图


由 Autodesk 教育版产品制作
白色字体
IVY
51.1±0.3
20.1±0.3
45±3.0
1
2
3
PE Bag
Shrink Line
用橡皮筋固定
PE袋包装
外箱贴1PCS标签在右上角
REV
DATE
DESCRIPTION
A
2022-2-12
New Issue
3 IPEX 1.13 IPEX
2 cable 1.13 Cable,Gray,50Ω 1 N/A
1 PCB电路板 FR-4 51.1*20.1*T0.8单面板 1 N/A
NO DESCRIPTION MATERIAL QTY REMARK
VENDER 51010013
PART NO
PART NAME 2.4G PCB天线
IV P/NO YW01-N040020
REV A
UNIT mm
SCALE 1/1
SIZE A 4
SHEET 1 OF 1
FILE NAME
XXX. ±2.0
XX. ±1.0
X. ±0.5
.X ±0.2
.XX ±0.1
APPROVED
CHECKED
DRAWING
东莞市艾微
科技有限公司
PRODUCTION DRAWING
由 Autodesk 教育版产品制作

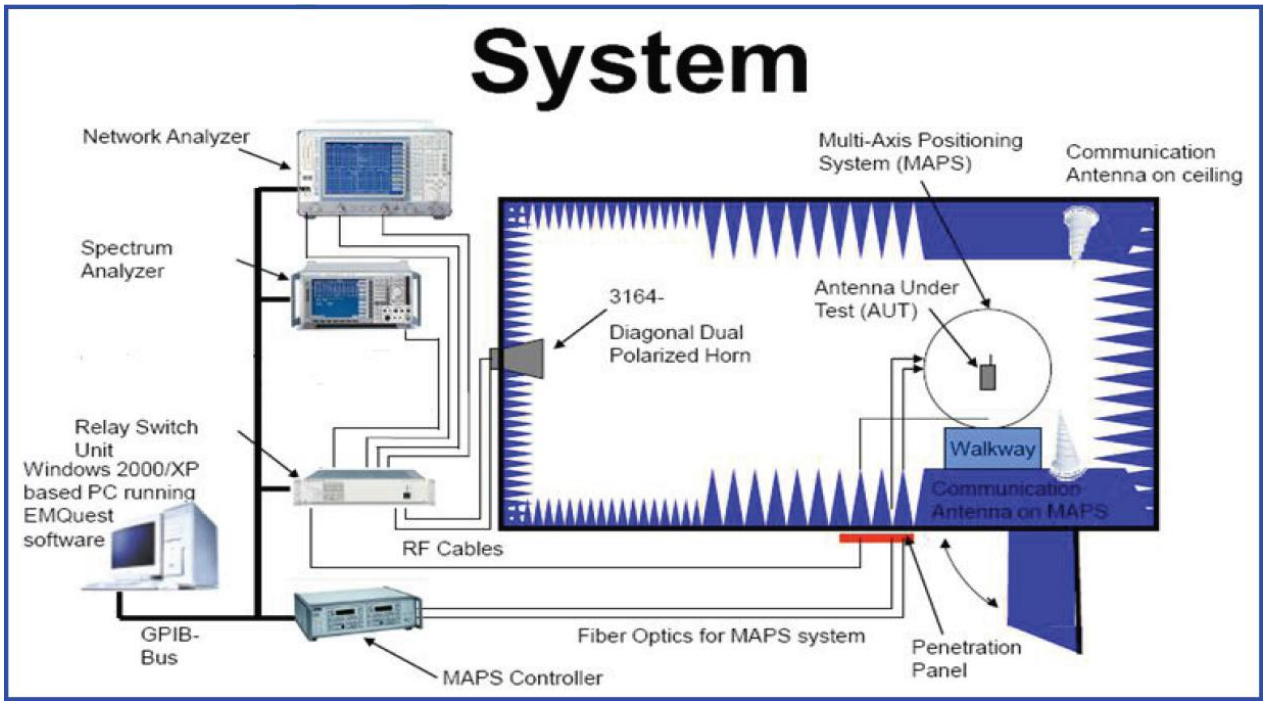
三、电测报告 Product Characteristics

Agilent E5071C Network Analyzer	

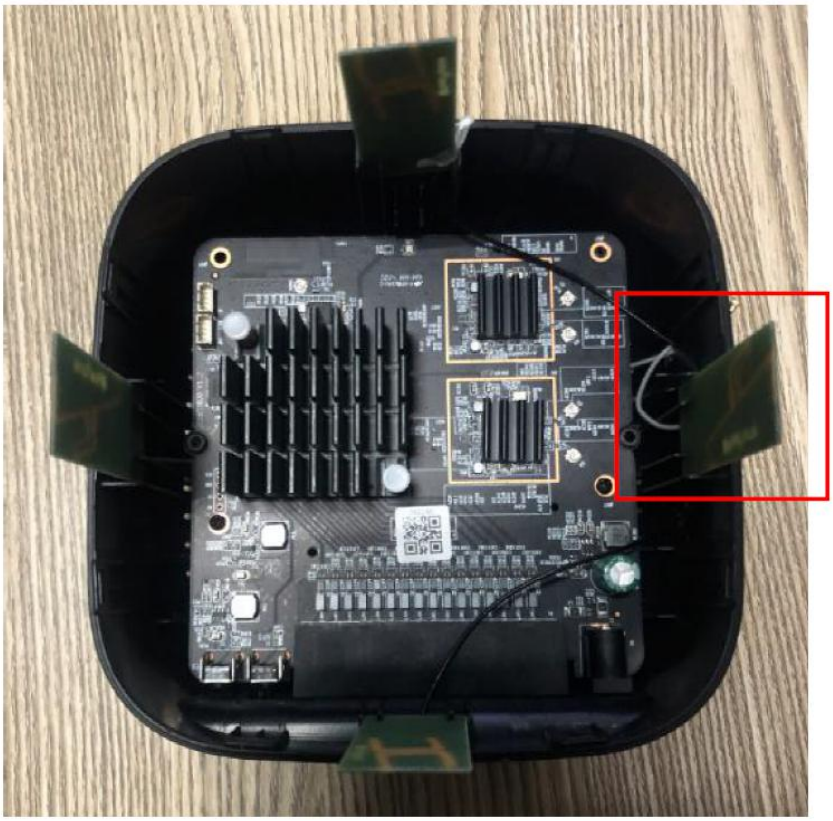
2400-2500MHz



测试原理框图：



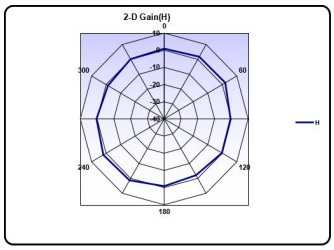
天线装配位置：



2.4~2.5GHz Radiation Pattern

2.4GHz

H



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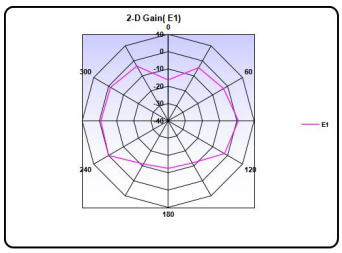

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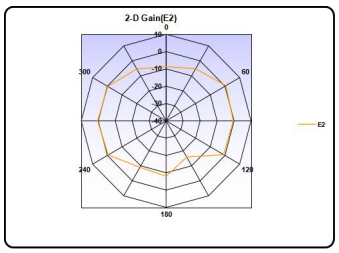

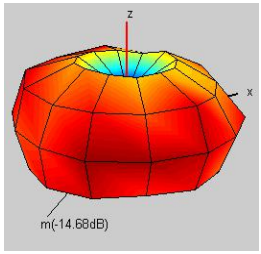

2.45GHz

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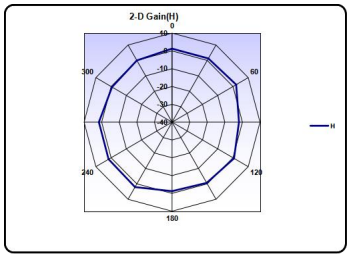

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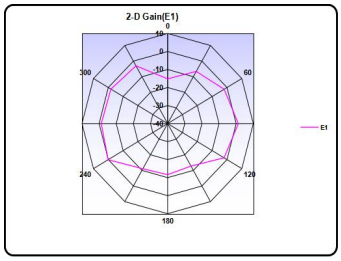

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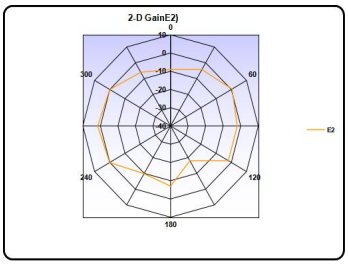
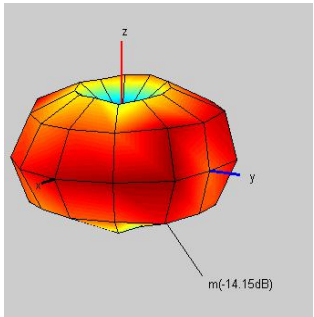
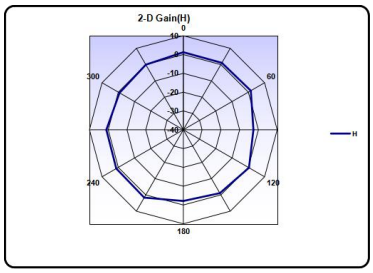




2.5GHz

H



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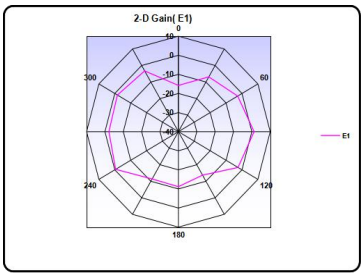

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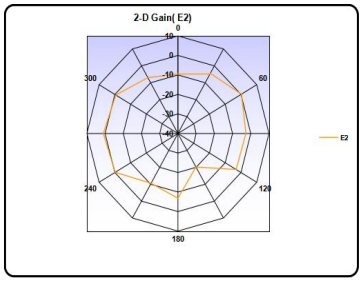

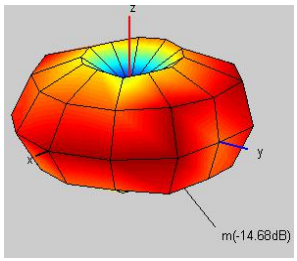

1. Gain & Patterns test results

2D patterns

Summary

VSWR

	2400MHz	2450MHz	2500MHz
VSWR	1.48	1.08	1.19

3D Peak Gain & Efficiency

Frequency	Antenna	
	Peak Gain (dBi)	Efficiency (%)
2400MHz	3.63	77.95
2410MHz	3.72	84.27
2420MHz	3.75	74.61
2430MHz	3.72	76.85
2440MHz	3.71	76.76
2450MHz	3.72	76.82
2460MHz	3.75	76.87
2470MHz	3.83	76.45
2480MHz	3.91	77.34
2490MHz	3.62	75.48
2500MHz	3.81	76.83

RoHS报告汇总表

序号	系列	供应商	检测机构	检测物料名称	报告编号	检测日期	报告失效日期	备注
1	PCB	金安国纪	SGS	FR4.0	NGBML2105022604	2021.11.4	2022.11.3	FR-4.0 ROHS 中文PDF
2	PCB 油墨	MEIKAI MEI	SGS	LIQUID	SHAEC2110570901	2021.3.31	2022.3.30	油墨pdf
3	端子	紫金	SGS	BRONZE C5210	CANEC202353601	2021.2.25	2022.2.24	C5210(ROSH+ 双盘条 板锡) 美文
4	端子	SHINKONG SYNTHETIC	SGS	PBT F202G15BK	ETR21801352	2021.8.13	2022.8.12	(PBT) F202G1 5BK ROHS 202
5	端子	连桥	CTI	电镀层金	A2210344667101001E	2021.8.27	2022.8.26	Au SGS报告 2021-1
6	同轴线	HUZHOU XUNTENG	SGS	FEP	NGBML2104809203	2021.10.12	2022.10.11	自色FEPROHS 报告 PDF
7	同轴线	JI AN ZHIHE	SGS	Tinned wire	CANEC2113747201	2021.7.30	2022.7.30	镀锡铜丝 ROHS报告 PDF
8	同轴线	HUZHOU XUNTENG	SGS	FEP	NGBML2104809205	2021.10.12	2022.10.11	黑色FEPROHS 报告 PDF
9	同轴线	HUZHOU XUNTENG	SGS	FEP	NGBML2104809215	2021.10.12	2022.10.11	灰色FEPROHS 报告 PDF