

深圳正华兴科技有限公司

天线规格承认书

Antenna Specification for Approval

客户名称

Customer Name: 蓝 光 科 技

产品名称:

Product Name: 2.4G 天线 全长33mm

客户型号:

Product Name: _____

产品料号:

Part NO.: C1.1-27-3

制 表:

Write By: 林宇宏

日 期:

Issued Date: 2022-12-30

客 户:

工程R&D Dept	采购Business Dept	承认 Approved By
林宇宏		

正华兴科技

研发R&D Dept	工程 Engineer Dept	审核 Approval



图号	数量	更改内容	签字	日期

33±2mm

3±0.5mm 上锡

1.6

正华兴科技
2024.05.21
工程部

线数*线径11*0.16mm 红色

深圳正华兴科技有限公司

要求:
1、标注公差的为重要尺寸, 未标注公差的按±0.2。

PART TITLE 零件名称: 2.4G天线	MATERIAL 材 料: 3239/24	UNIT IN 单位: mm	SCALE 比例: 1:1	 VER. 版本: 01
PART NO. 零件编号: 202-0002-0161	DRWING 制图: 文 全	DATE 日期: 2020/4/28	CHECKING 审核:	SUPPLIER CFM 供应商签名:

Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <1.0

Efficiency >20%

Impedance 50 Ohm

Polarization Line

Gain 0DBi

B. Material & Mechanical Characteristics

Material of Radiator Cu

Connector Type : NO

Dimension

C. Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

Test Equipment & Conditions

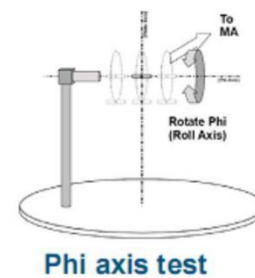
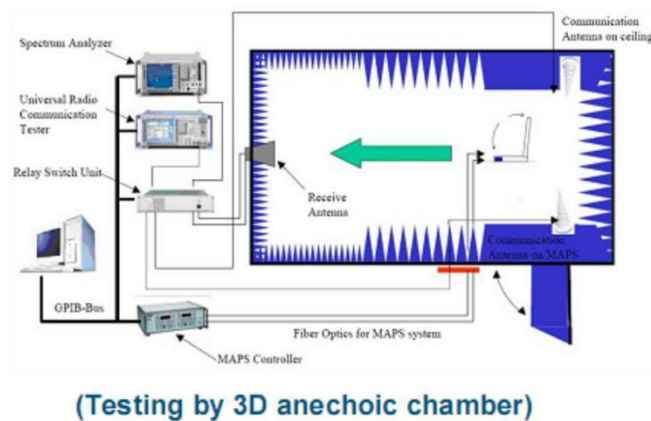
1. Network Analyzers :

Agilent 8753D 5071B

2. Communications Test Set:

Agilent E5515C

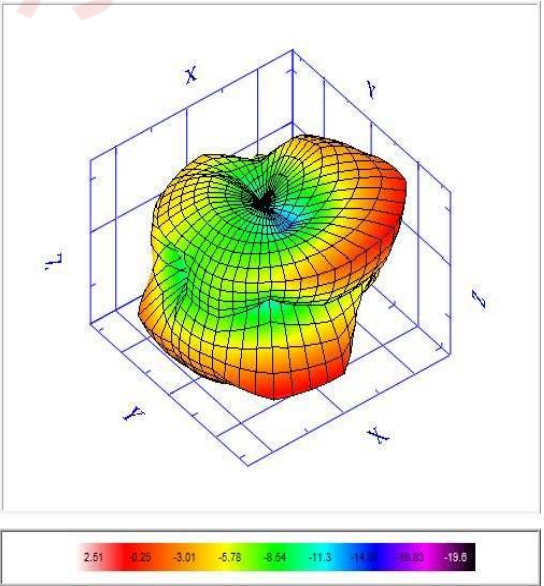
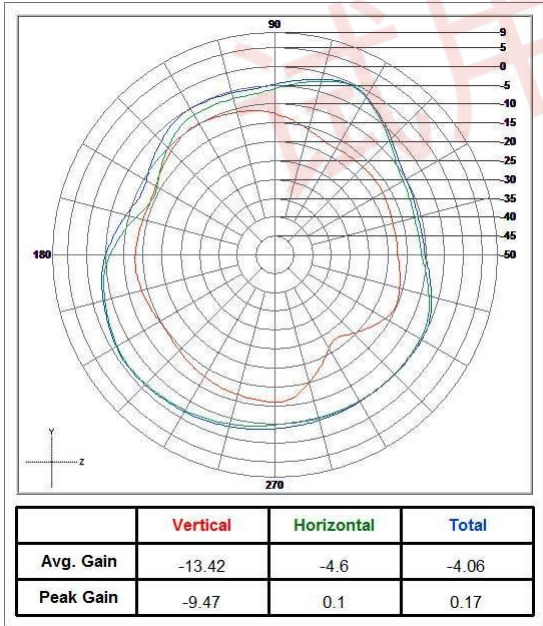
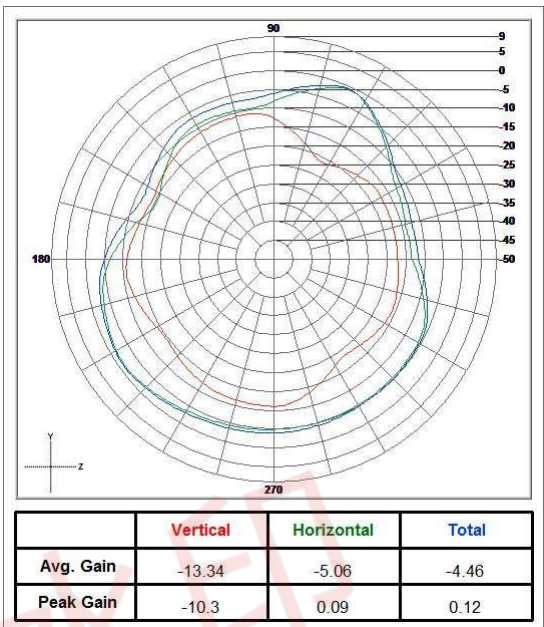
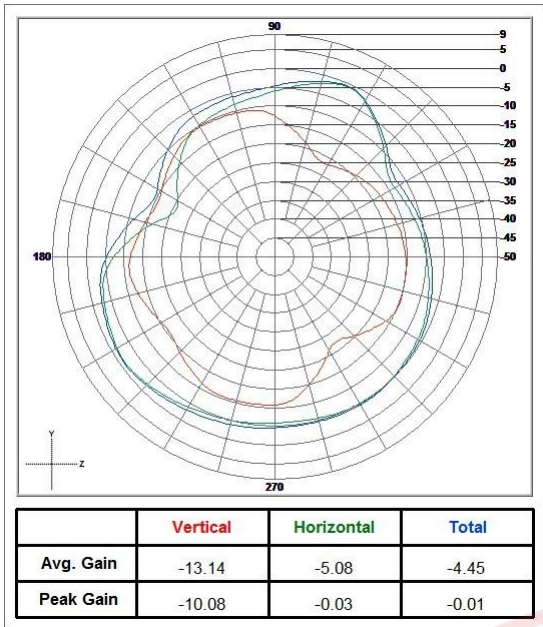
3. 3D Chamber Test System

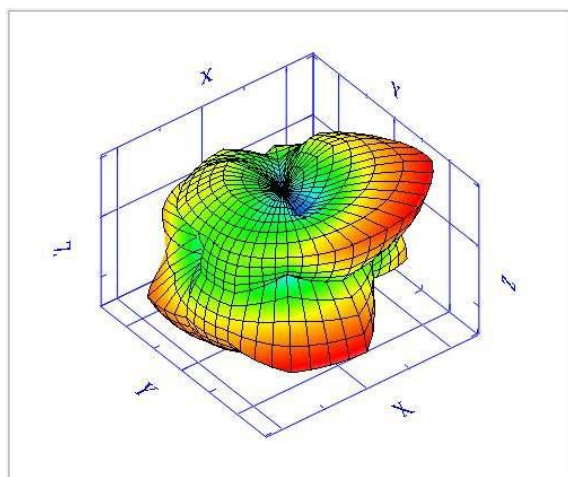


Effiency &Gain

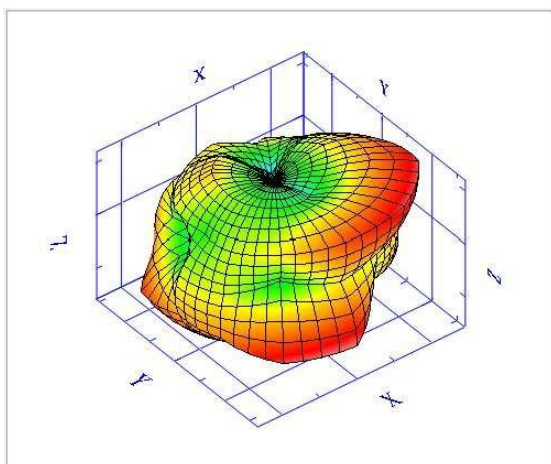
2.40	-0.01
2.440	0.12
2.48	0.17

Radiation Pattern:





2.12 -0.5 -2.73 -5.16 -7.56 -10.01 -12.41 -14.80 -17.29



1.98 -0.98 -3.14 -5.7 -8.26 -10.81 -13.37 -15.93 -18.49

试用水印

REDDOTINFORMATIONTECHNOIOGYSHENZHENCO, LTD

PRODUCT SPECIFICATION

Customer	
Customers part number	
ProductMaterialCode	HD. f-34. 5-9-75-IPEX
Working Band	2400MHz-2500MHz
Issue Date	2024-05-04
ReleaseVersion	A4
Author	Zou yang cheng

Directory

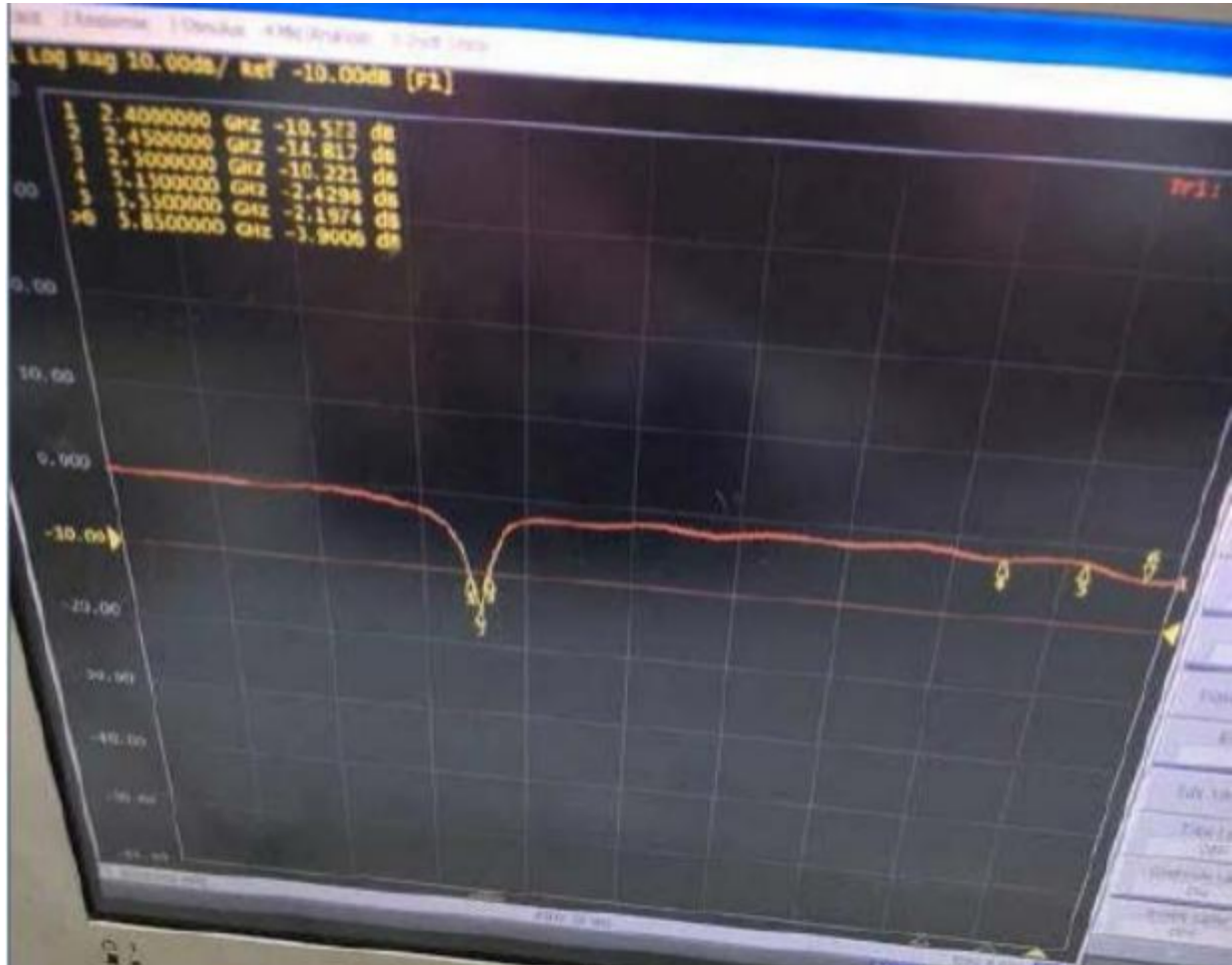
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One 、PRODUCTTECHNICALSPECIFICATION

FrequencyRange (MHz)	2400-2500
InputImpendence(Ω)	50
VSWR	≤2.0
Radiation	Omni-directional
Gain(dBi)	3
PolarizationType	Liner polarization
AdmittedPower Connector	2W
ConnectType	weld
Bandwidth (MHz)	100
ChassisColor	Black
Operation temperature(℃)	-40~+85
Storetemperat(℃)	-40~+85

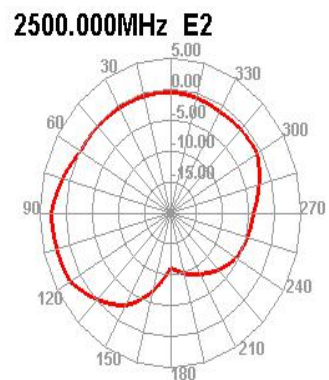
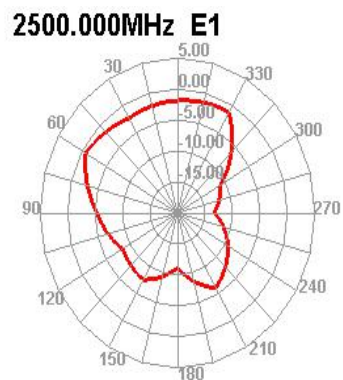
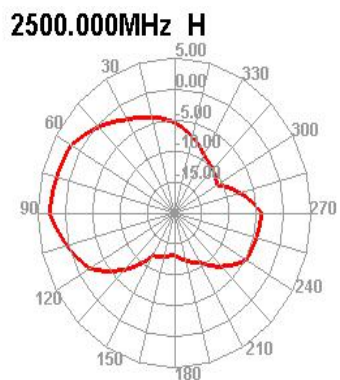
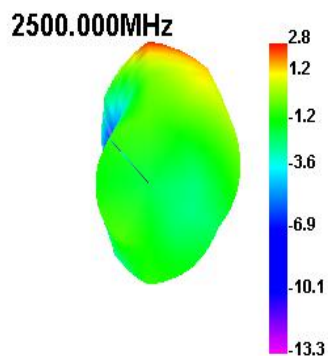
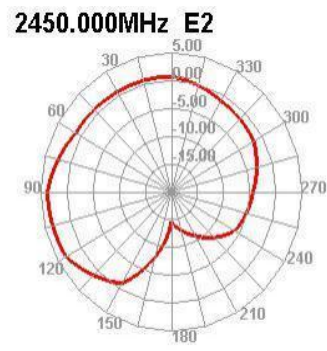
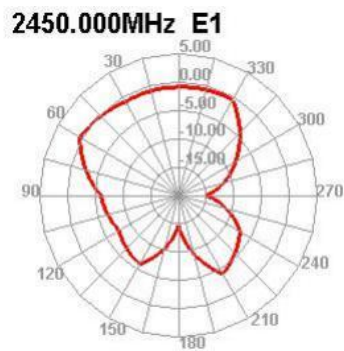
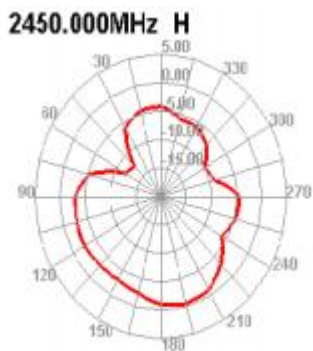
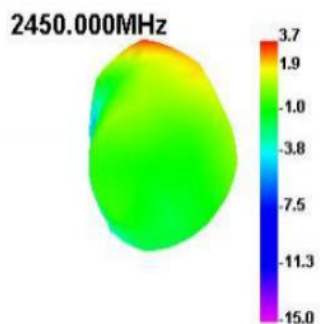
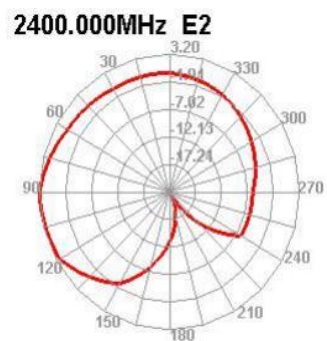
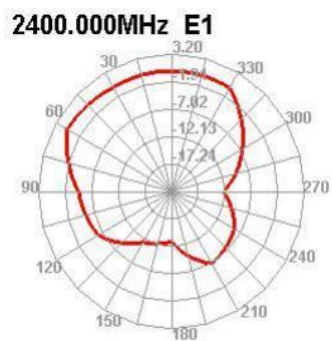
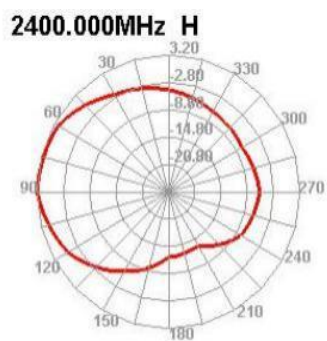
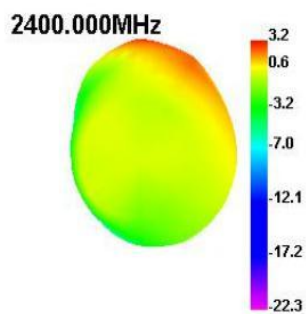
Two 、 VSWR

Frequency (MHz)	2400	2450	2500
VSWR	-10.5	-14.8	-10.2



Three、Efficiency/Gain/DirectivityDiagram

Passive Test For WIFI2.4				
Freq	Effi	Effi	Gain	Gain
(MHz)	(%)	(dB)	(dBi)	(dBd)
2400	56.8	-2.37	3.1	1.06
2410	60.05	-2.22	3.38	1.25
2420	61	-2.08	3.56	1.41
2430	63.05	-3	3.85	1.68
2440	62.57	-2.56	3.58	1.45
2450	62.07	-2.1	3.76	1.7
2460	58.9	-2.39	3.48	1.3
2470	61.23	-2.25	3.7	1.56
2480	56.5	-2.6	3.39	1.25
2490	59.05	-2.38	3.46	1.35
2500	53.05	-2.31	2.85	0.67



Four、Product drawing

