Dongguan Lixinwei Electronics Co., Ltd

2nd Floor, Room 202, District D, Fu Hui Chuangyuan, Dongjiang Road, Huanlu Village, Huangjiang Town, Dongguan City

Antenna Specification for Approval

Customer Name: 蓝光电子

Address:

Product Name: 2.4G antenna

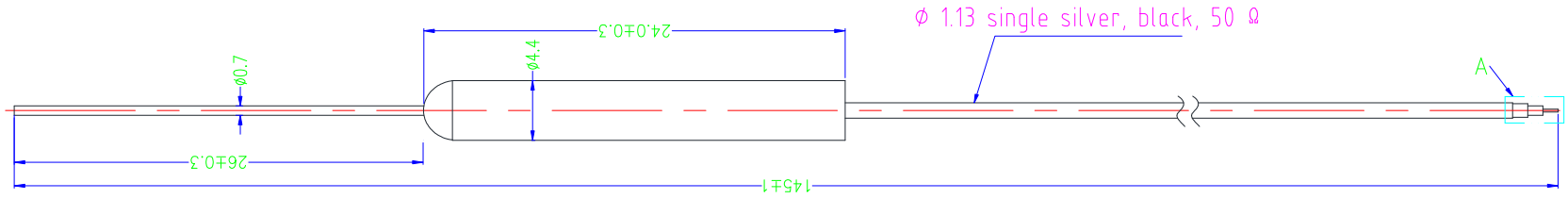
Part NO.: C113H-IPXBT44-27-145R

Write By: Zhou Min

Issued Date: 2022-09-8

Supplier

R&D Dept	Engineer Dept	Approval
Ni Sheng	Zhang Ming	xiong



Specification:

1. Frequency range: 2.4GHz - 2.5GHz;

2. Power gain: dBi.

TITLE: 2.4Gantenna		MATERIAL: ——	FINISH:
PART/NO.: C113H-IPXBT44-27-145R		TOLERANCE ??	
UNIT IN mm	SCALE: 2.5:1	LINEAR ?? L<30 ±0.10 30<L<100 ±0.15 L>100 ±0.20	ANGULAR?? X.XX ±0.1° X.X ±0.2°
		UNLESS OTHERWISE SPECIFIED	
DRWING 敦	DATE 22-09-25	CHECKING	DATE / REV 01

Dongguan Lixinwei Electronics Co., Ltd

Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz VSWR <2.0
Efficiency >65%
Impedance 50 Ohm
Polarization Line
Gain 1.97DBi

B. Material & Mechanical Characteristics

Material of Radiator Cu
Cable Type 1.13 黑色
Connector Type : IPEX1
Dimension

C. Environmental

Operation Temperature - 30 °C ~ + 80 °C
Storage Temperature - 30 °C ~ + 85 °C

Test Equipment & Conditions

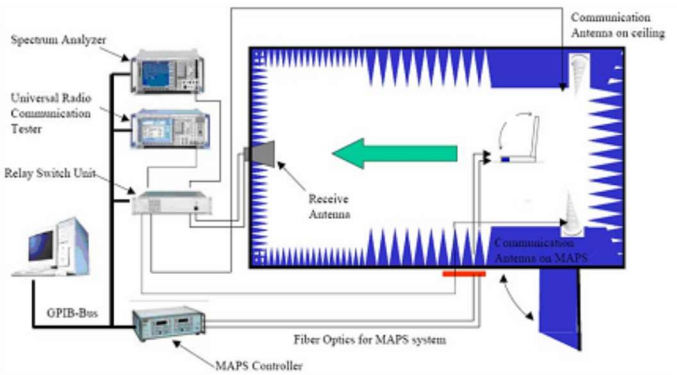
1. Network Analyzers :

Agilent 8753D 5071B

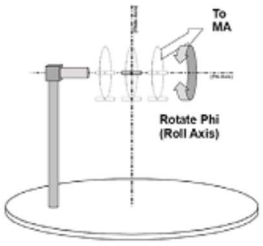
2. Communications Test Set:

Agilent E5515C

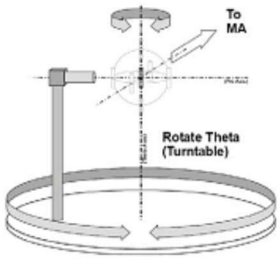
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

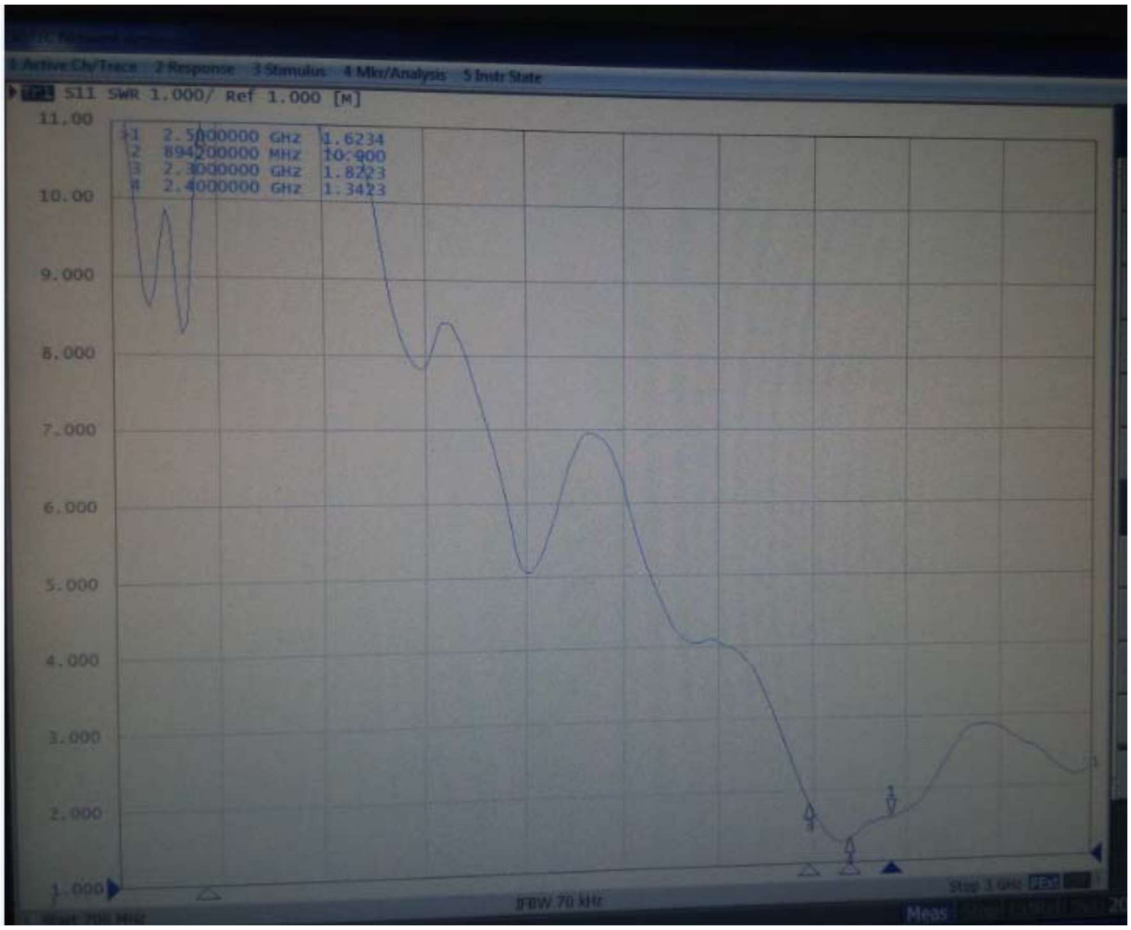


Theta axis test

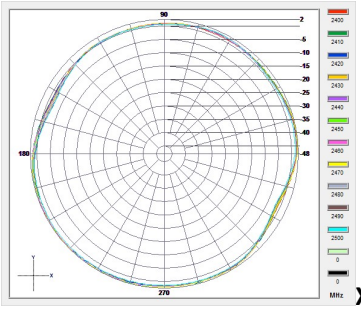
Effiency &Gain

Freq (MHz)	Effi (%%)	Gain (dBi)
2400	57.97	1.4
2410	64.83	1.86
2420	54.67	1.8
2430	65.56	1.97
2440	56.69	1.51
2450	52.08	1.73
2460	51.84	1.86
2470	52.93	1.80
2480	52.46	1.78
2490	58.44	1.72
2500	57.45	1.33

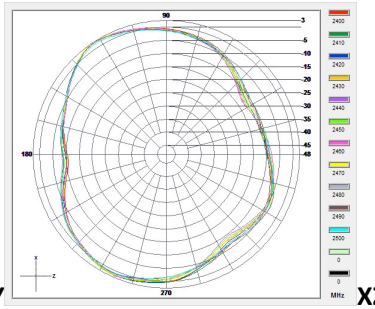
S11



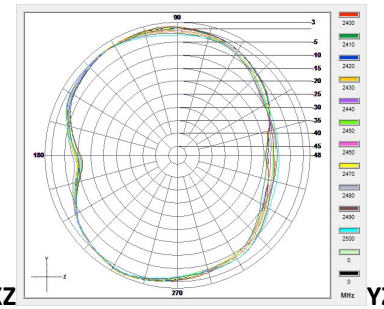
Radiation Pattern:

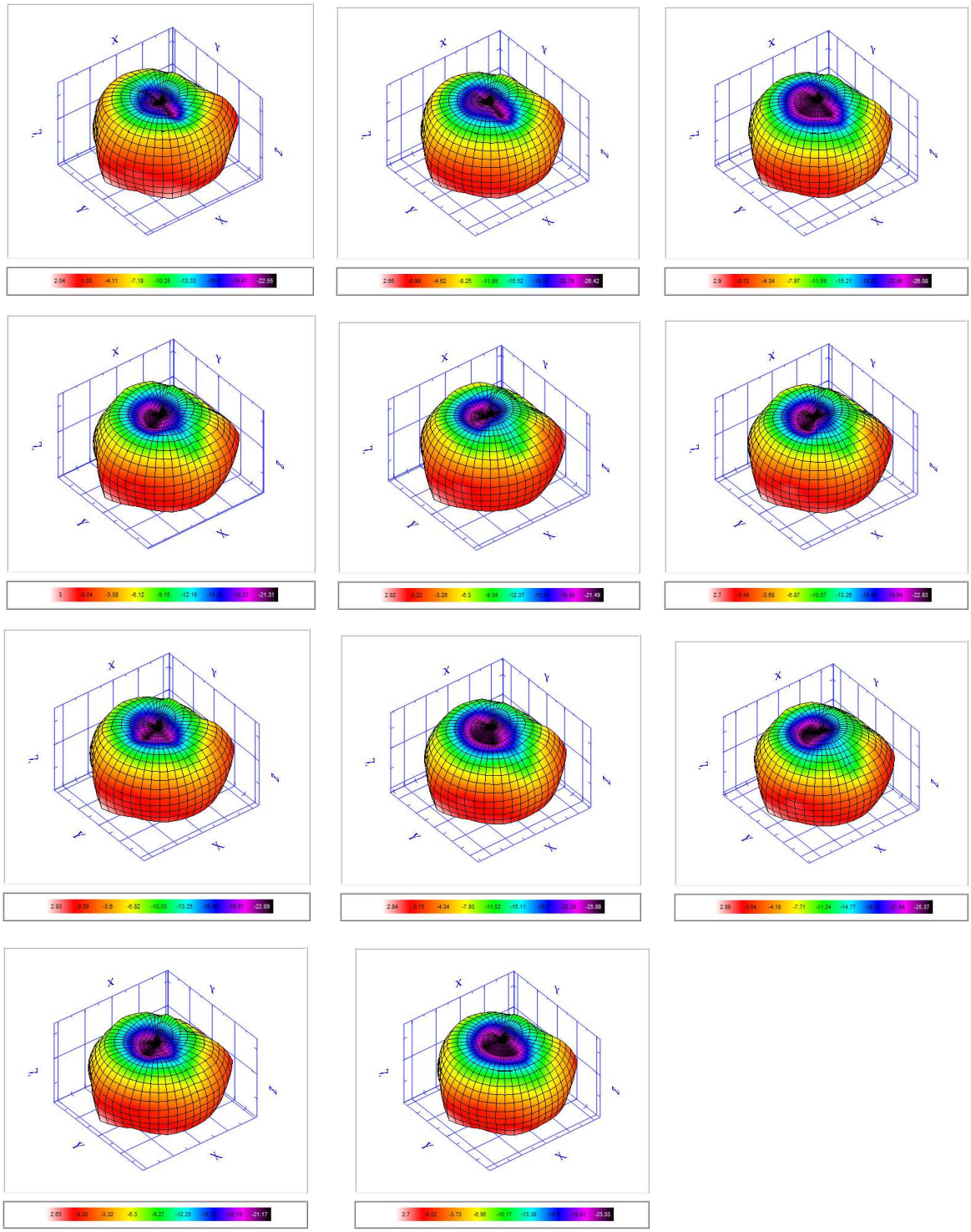


XY



XZ



YZ

2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500