



ShenZhen XinErSheng Technology Co.,Ltd

SPECIFICATION FOR APPROVAL

Customer name: BeiNaiTe

Product name: 2.4G copper tube antenna 1.13 gray wire L=140MM

Customer Part
Number:

Manufacturers of
Material: SFANT11A13359

Deliver quantity: 5PCS

Mark	Check	Examine and approve	Datelanded
Biao	Lisen	Amy	2022.09.05

That Customers:

Acknowledge	Check	Examine and approve	Datelanded

Admit that situation: ☒new product ☐ product shanges

Admit that project: ☐acknowledgement ☐soecimen 10PCS

Admit that conclusion: ☐reception ☐refuse

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Main technical parameters of the product

Main technical specifications	
Frequency Range(MHZ)	2400-2500
Gain (dBi)	2dBi
Impedance(Ω)	50 ± 10
ReTurnLoss(dB)	≤ -10
VSWR	≤ 2
Admitted Power	1W
Polarization	Linear Vertical
Connector Type	Weld
Physical Properties	
Antenna Base	Copper
Operating Temp	-20℃-+60℃
Storage Temp	-20℃-+70℃

List of raw materials:

Serial number	Name	Texture	Quantity	Unit	Remark
1	Copper pipe	Copper(H65)	1	PCS	
2	Wire rod	1.13 Gray	1	PCS	

Product drawing

Product drawing

ROHS

ROHS

Specification:
 Frequency Range: 2400-2500MHz
 Return Loss: -10dB or less
 VSWR: 1.92 Max
 Gain: 2.0 dBi

Dimensions and Tolerances:

DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED	
XXX ±0.05	XX ±1.0
XX ±0.1	
X ±0.2	
X ±0.5	

Customer Information:

CUSTOMER:	
SHANTIAN 13359	

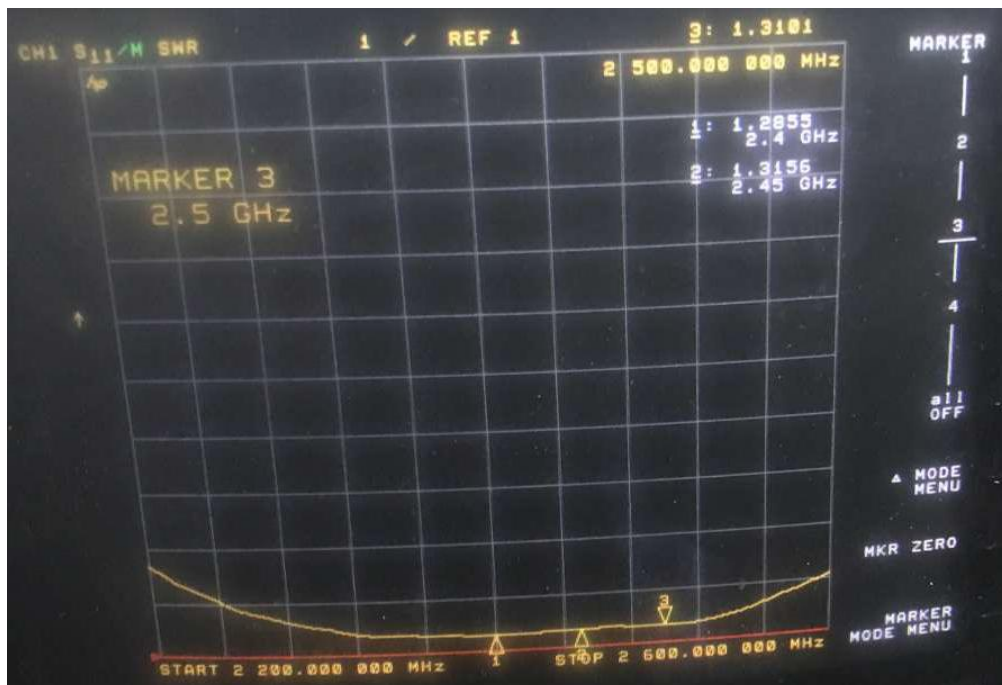
Drawing Details:

SHEET: 1/1		SCALE: 1/1	
UNIT: MM	REV: A	CHECKED	DRAWN

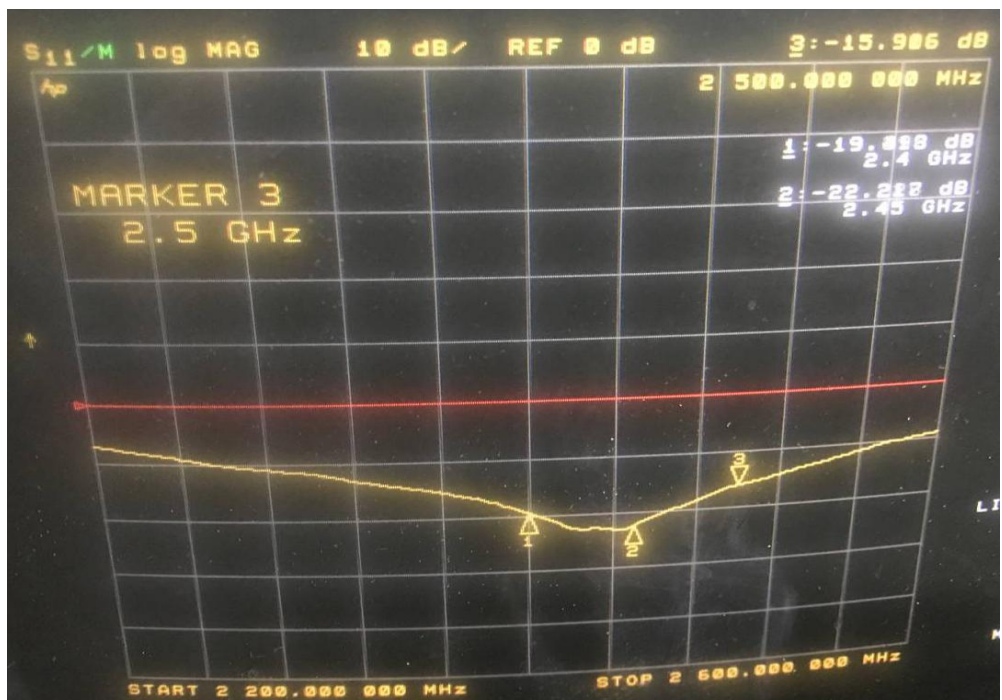
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Network analyzer test report:

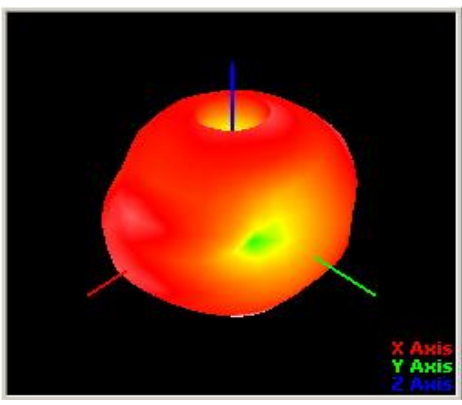
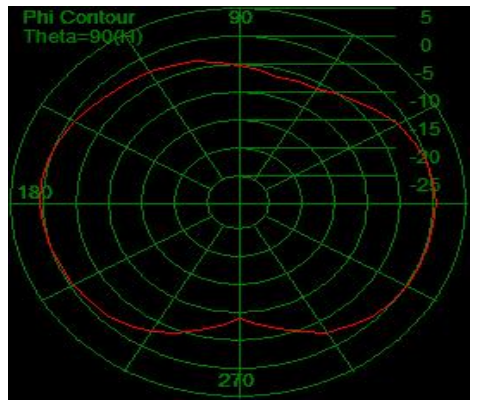
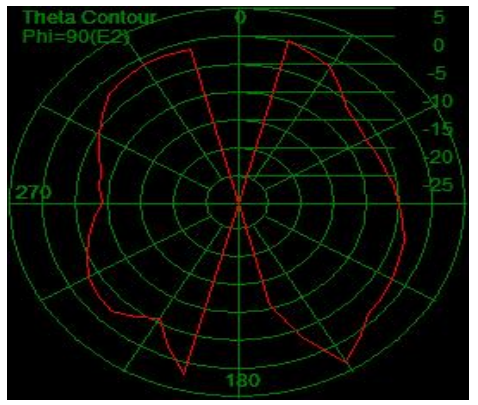
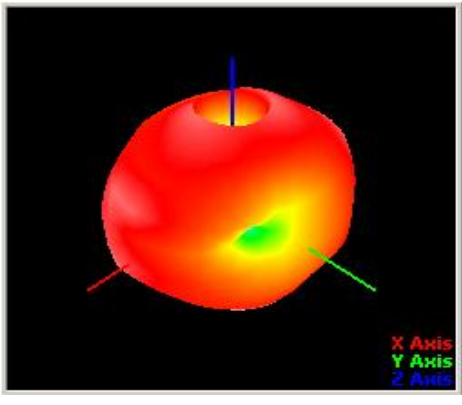
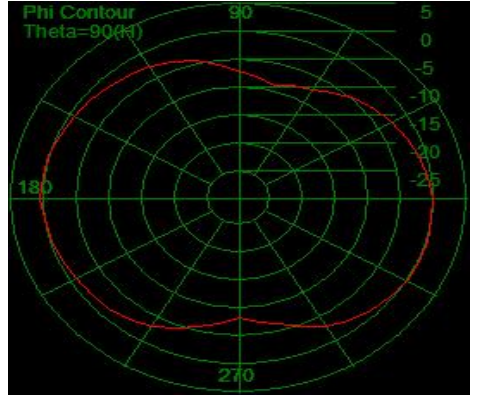
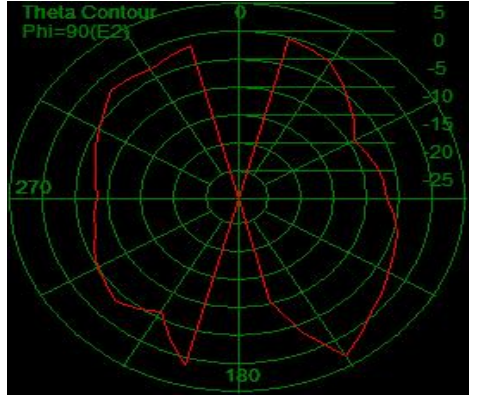
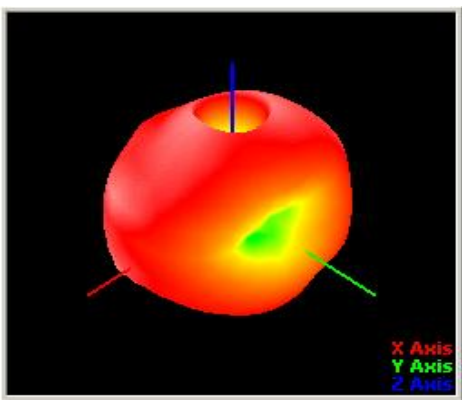
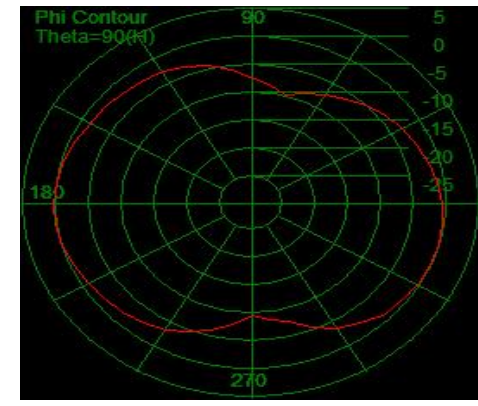
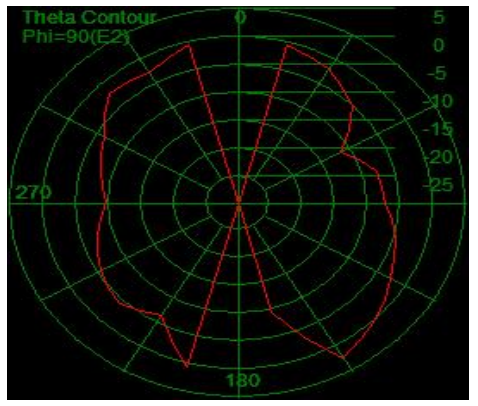
1. SWR:



2. return loss



2D、3DRaditation Pattern

 3D radiation pattern at 2.4G showing a main lobe and side lobes. Axes: X Axis (red), Y Axis (green), Z Axis (blue).	 Phi Contour plot at 2.4G, Theta=90(φ1). The plot shows a main lobe centered at 0° with a peak gain of 2 dBi.	 Theta Contour plot at 2.4G, Phi=90(E2). The plot shows a main lobe centered at 0° with a peak gain of 2 dBi.
2.4G	Gain(Peak):2 dBi	Efficiency:64.8%
 3D radiation pattern at 2.45G showing a main lobe and side lobes. Axes: X Axis (red), Y Axis (green), Z Axis (blue).	 Phi Contour plot at 2.45G, Theta=90(φ1). The plot shows a main lobe centered at 0° with a peak gain of 1.88 dBi.	 Theta Contour plot at 2.45G, Phi=90(E2). The plot shows a main lobe centered at 0° with a peak gain of 1.88 dBi.
2.45G	Gain(Peak):1.88dBi	Efficiency:61.2%
 3D radiation pattern at 2.5G showing a main lobe and side lobes. Axes: X Axis (red), Y Axis (green), Z Axis (blue).	 Phi Contour plot at 2.5G, Theta=90(φ1). The plot shows a main lobe centered at 0° with a peak gain of 1.76 dBi.	 Theta Contour plot at 2.5G, Phi=90(E2). The plot shows a main lobe centered at 0° with a peak gain of 1.76 dBi.
2.5G	Gain(Peak):1.76dBi	Efficiency:58.3%