



ShenZhen XinErSheng (SuFei) Technology Co.,Ltd

SPECIFICATION FOR APPROVAL

Customer name: Xiamen Dayang Communication Co.Ltd

Product name: 868-928MHZ Spring antenna (Metal)

Customer Part Number: 41R3116711

Manufacturers of Material: SFANT82F13129

Deliver quantity: 5PCS

Mark	Check	Examine and approve	Datelanded
Biao	Lisen	Amy	2021.06.07

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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Email: liqinghui@sufeitech.com

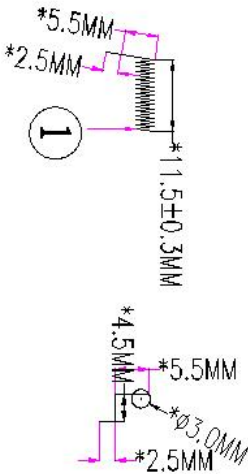
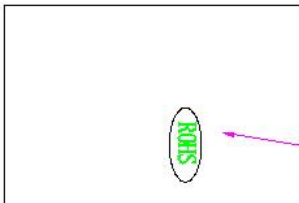
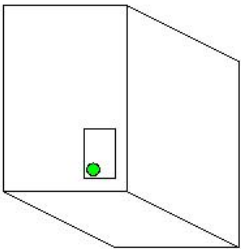
Main technical parameters of the product

Main technical specifications	
Frequency Range(MHZ)	868-928
Gain (dBi)	$\leq -0.65\text{dBi}$
Impedance(Ω)	50 ± 10
ReTurnLoss(dB)	≤ -10
VSWR	≤ 2
Admitted Power	1W
Polarization	Linear Vertical
Connector Type	Weld
Physical Properties	
Antenna Base	Carbon steel
Operating Temp	$-20^{\circ}\text{C} - +60^{\circ}\text{C}$
Storage Temp	$-20^{\circ}\text{C} - +70^{\circ}\text{C}$

List of raw materials:

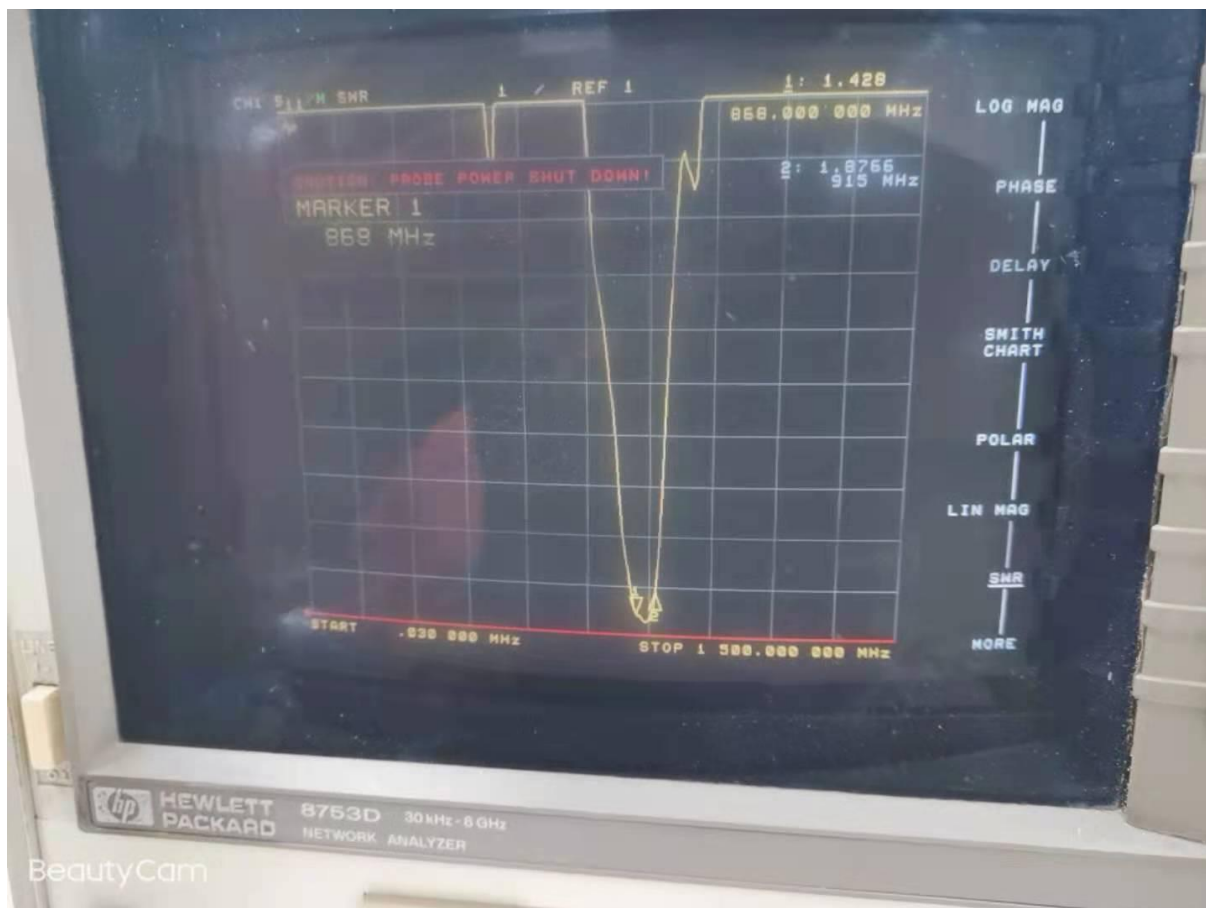
Serial number	Name	Texture	Quantity	Unit	Remark
1	Spring	Carbon steel	1	PCS	

Product drawing

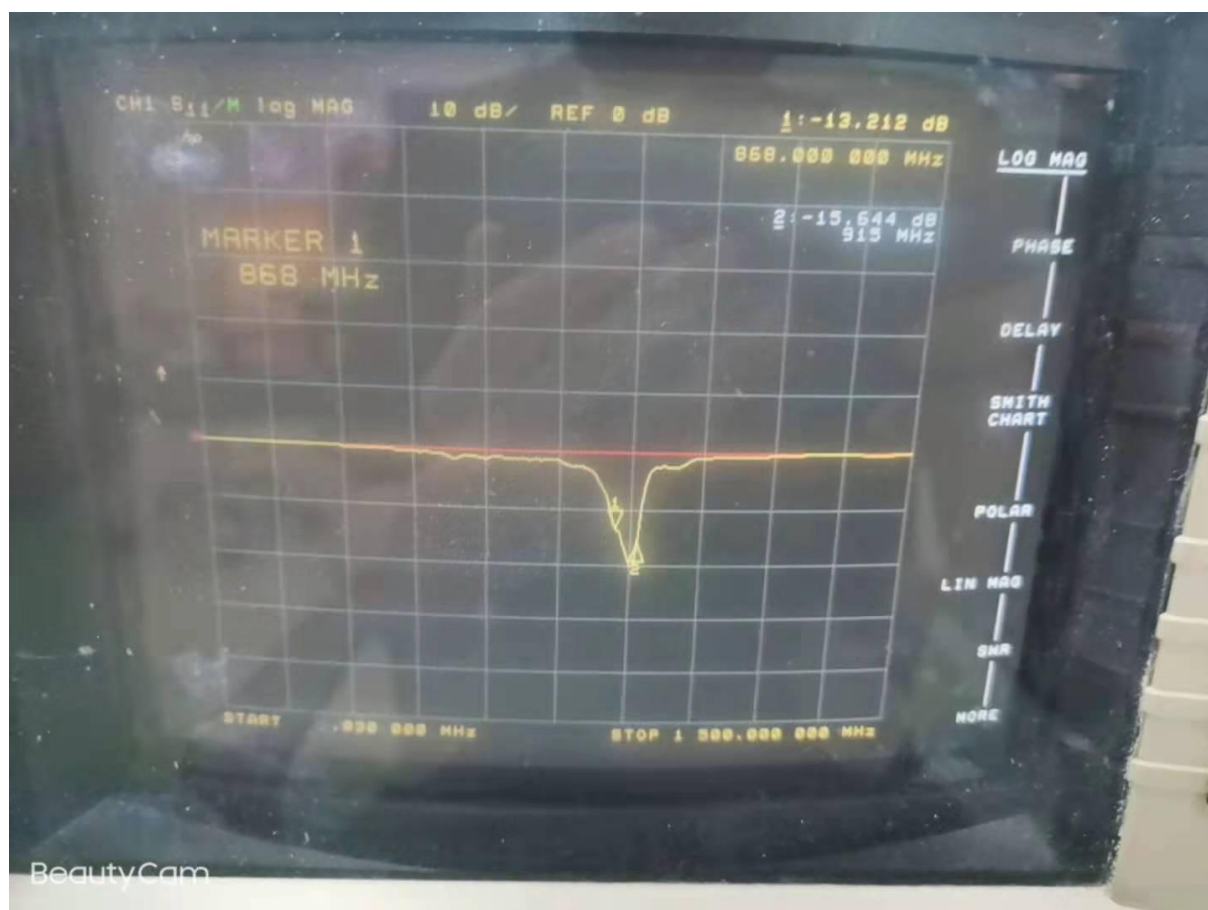
Specification requirements,1.Spring material: Carbon steel nickel plated			
2.The spring wire diameter 0.5MM,number of turns 16			
3.Frequency: 868-928MHZ			
		 	
ROHS			

Network analyzer test report:

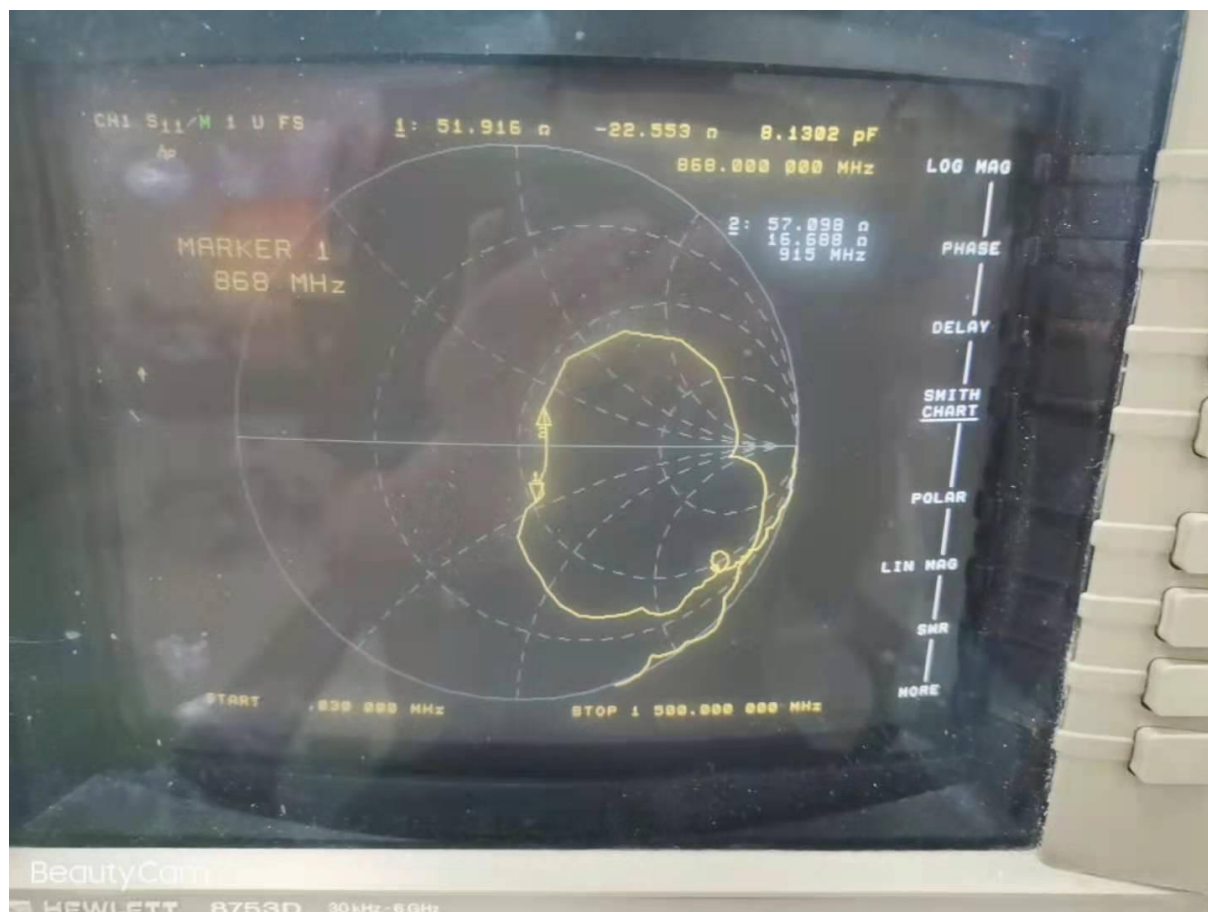
1. SWR:



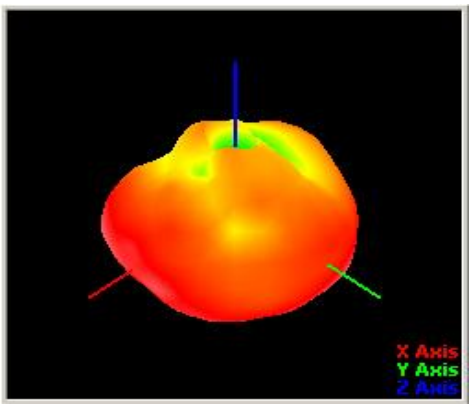
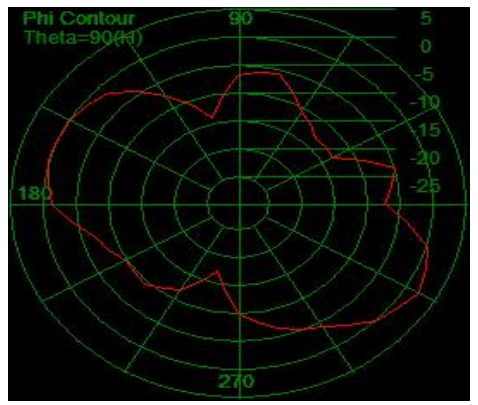
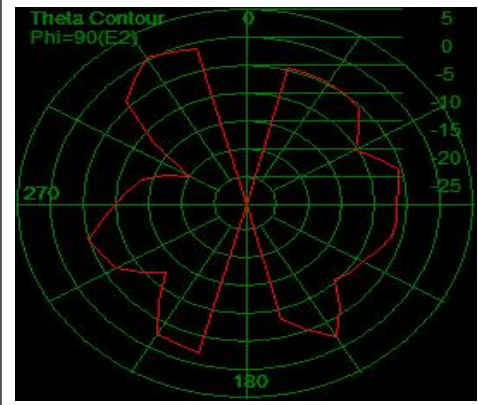
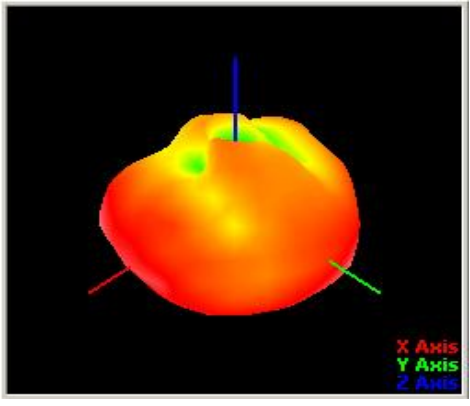
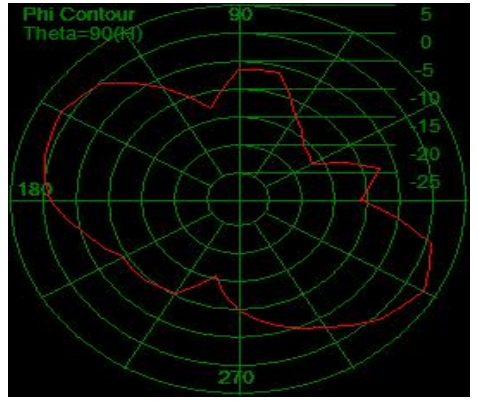
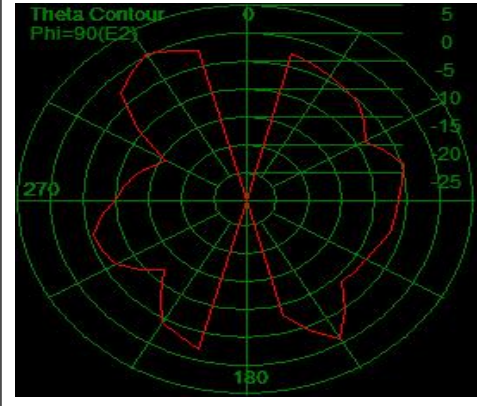
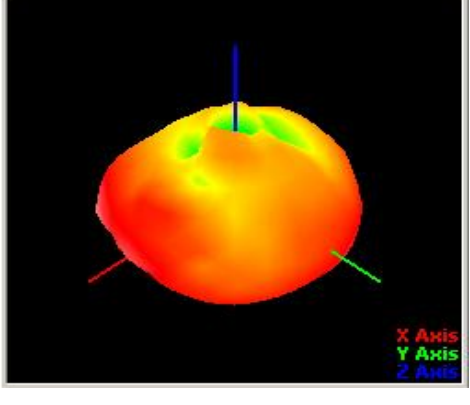
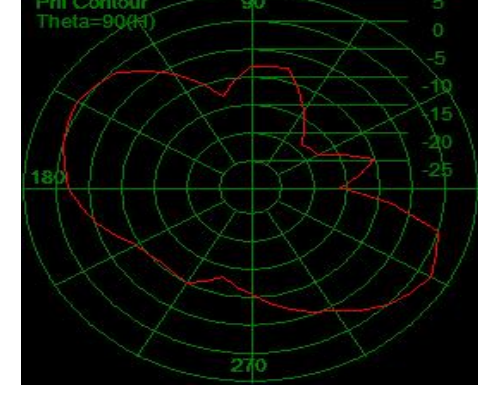
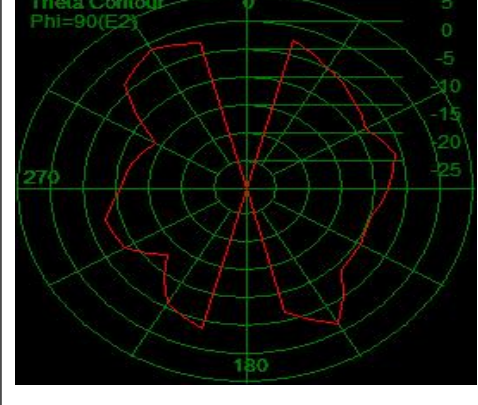
2.return loss



3.Impedance



2D、3DRaditation Pattern

 3D Radiation Pattern for 868M. The plot shows a toroidal shape with a color gradient from blue (low) to red (high). Axes are labeled: X Axis (red), Y Axis (green), Z Axis (blue).	 Phi Contour Theta=90(φ) for 868M. The plot shows a red line on a green grid. The radial scale ranges from -25 to 5 dB. The angular scale ranges from 0 to 360 degrees.	 Theta Contour Phi=90(E2) for 868M. The plot shows a red line on a green grid. The radial scale ranges from -25 to 5 dB. The angular scale ranges from 0 to 360 degrees.
868M	Gain(Peak):-0.89dBi	Efficiency:17.2%
 3D Radiation Pattern for 890M. The plot shows a toroidal shape with a color gradient from blue (low) to red (high). Axes are labeled: X Axis (red), Y Axis (green), Z Axis (blue).	 Phi Contour Theta=90(φ) for 890M. The plot shows a red line on a green grid. The radial scale ranges from -25 to 5 dB. The angular scale ranges from 0 to 360 degrees.	 Theta Contour Phi=90(E2) for 890M. The plot shows a red line on a green grid. The radial scale ranges from -25 to 5 dB. The angular scale ranges from 0 to 360 degrees.
890M	Gain(Peak):-0.76dBi	Efficiency:18.2%
 3D Radiation Pattern for 915M. The plot shows a toroidal shape with a color gradient from blue (low) to red (high). Axes are labeled: X Axis (red), Y Axis (green), Z Axis (blue).	 Phi Contour Theta=90(φ) for 915M. The plot shows a red line on a green grid. The radial scale ranges from -25 to 5 dB. The angular scale ranges from 0 to 360 degrees.	 Theta Contour Phi=90(E2) for 915M. The plot shows a red line on a green grid. The radial scale ranges from -25 to 5 dB. The angular scale ranges from 0 to 360 degrees.
915M	Gain(Peak):-0.79dBi	Efficiency:17.6%



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