




APPROVAL SHEET

承认书

CUSTOMER NAME Customer's name	The same is digital	
CUSTOMER P/N Customer material number		
PART NAME Article Name	.433MHzSpring built-in antenna	
P/N Expect Howl	YJC-6N000-B486.	
. APPROVAL REV. Printing block Come next in order	A0.	
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APPROVED BY Stone Standard	Be like Milky Way	
Customer Approved Visitor Door Bear Recognize		
Prepared By Bear Do	Checked By Examine Stone	Approved by Stone Standard

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Resume:

Edition	.Change content and reasons for change	Date	Circulate
A0.	The first edition is released	2023 Year 12 Moon 08 Sun	

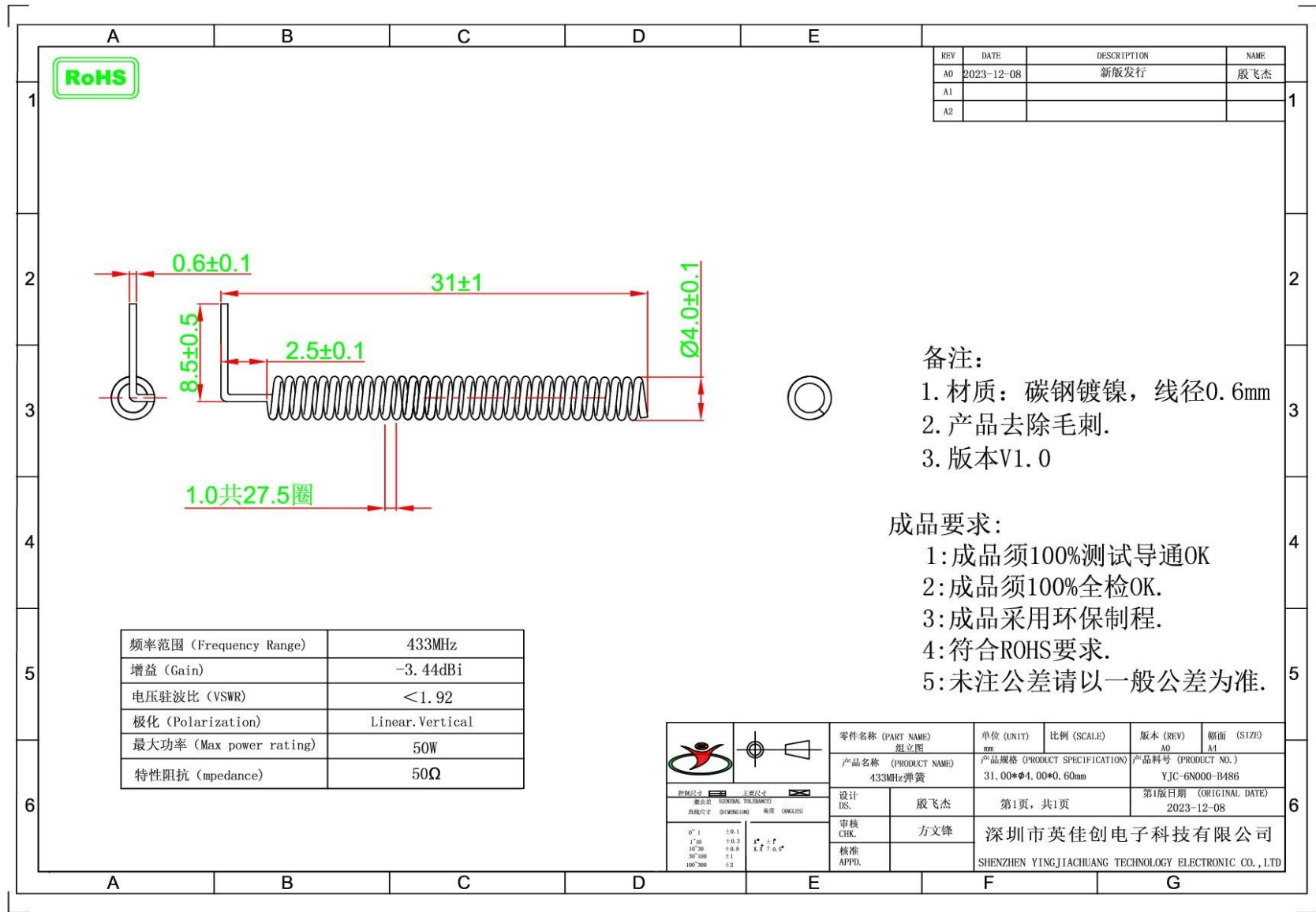


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Antenna floor





Project	Test conditions	Specifications
Storage environment	The test temperature, humidity and air pressure without specifying are as follows: 1. The temperature is $-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$ Two. The relative humidity is 45% to 85% 3. The air pressure is 86kpa-106kpa	The electrical and mechanical properties are normal.
High and low temperature test	At 70°C Give -20°C Carry out between 5 Sub-cycle, and then under normal conditions 1-2 hours, check the appearance quality.	The size should meet the requirements and meet the mechanical and electrical properties.
Constant humidity and heat resistance test	Relative humidity $95\pm 3\%$, test temperature: 40°C . Last 2 hours. After the action, after the test product is taken out 5 minutes The electrical performance is measured inside, and the test product is under normal conditions. 1-2 hours, check the appearance quality	The size should meet the requirements and meet the mechanical and electrical properties.



Vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, the number of sweep cycles: 30. Come next in order	The electrical and mechanical properties are normal.
Drop test	1M The high altitude falls freely in the direction of the axes perpendicular to each other. Three Come next in order	The electrical and mechanical properties are normal.

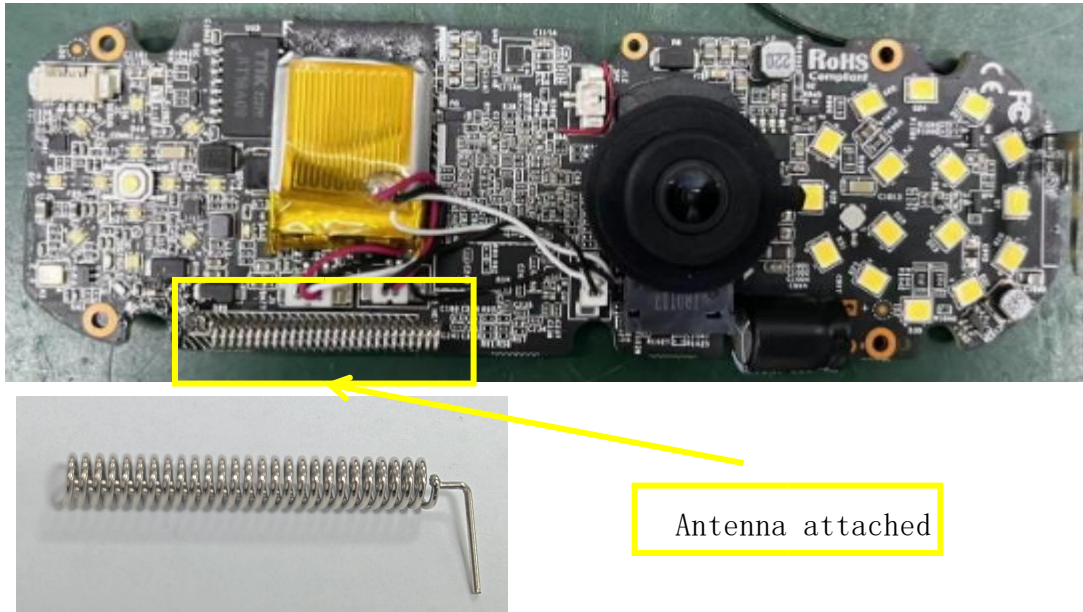
Antenna technical parameters and environmental test:

Electrical technical parameters			
Lightning Nature Nai Finger Treetop		Electrical specifications	
Frequency range	. 433MHz	Frequency Range	. 433MHz
Voltage standing wave ratio	<1.92	VSWR.	<1.92
Input impedance	50 Ω	. Input Impedance	50 Ω
Directions	Omni-oriented	Direction.	All
Increase	-3.44dBi	Gain	-3.44dBi
Trigger mechanism Shackles Finger Treetop		Mechanical Specifications	
Wire material	Carbon steel nickel plating	Wire material.	Carbon steel nickel plating
Interface form	OP.	Input connector.	OP.
Working temperature	-20℃~+70℃	Working temperature	-20℃~+70℃
Working humidity	20~80 percent	Working humidity	20~80 percent

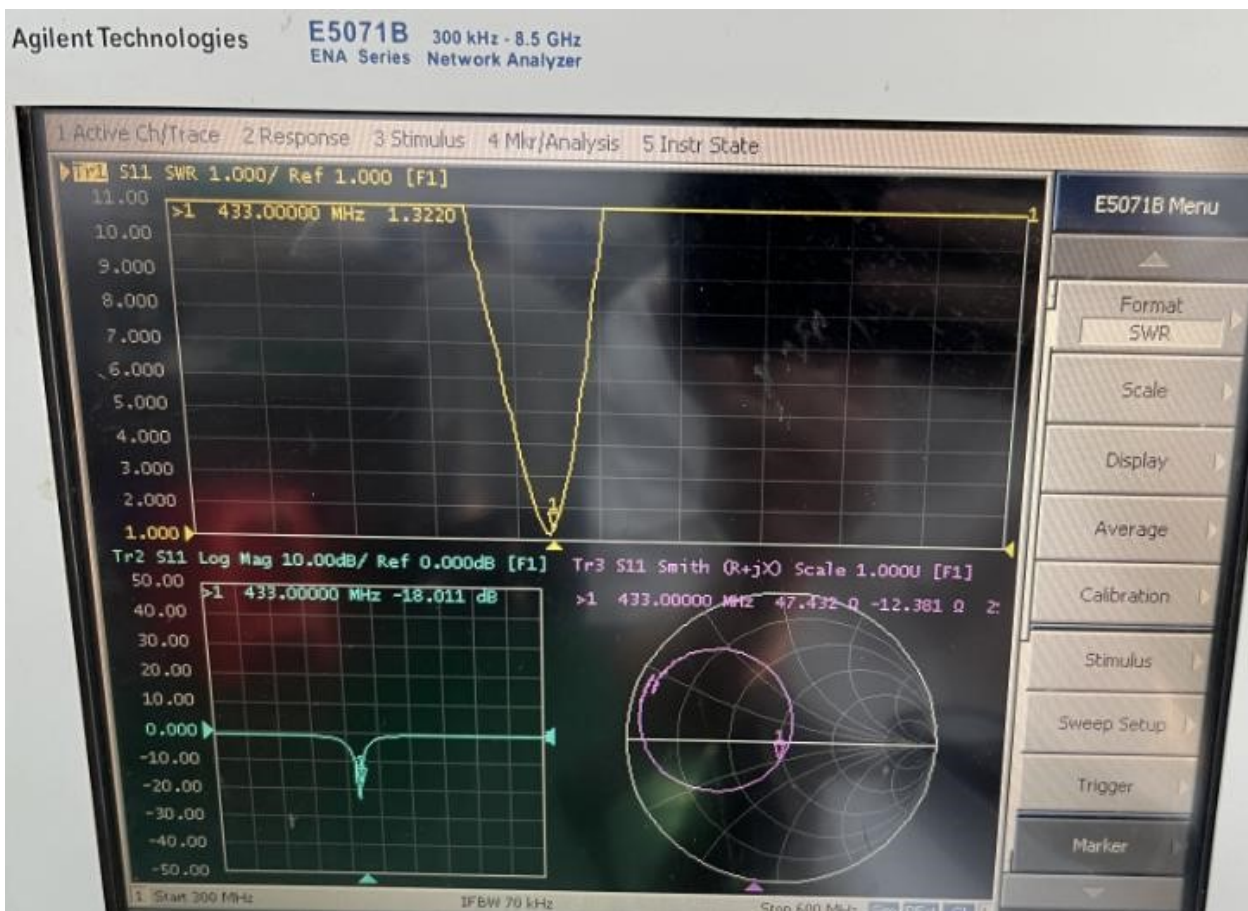


Environmental performance test:

Physical picture of the antenna and attached location map:



Antenna performance test chart:

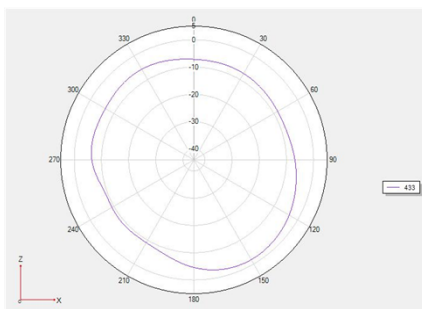




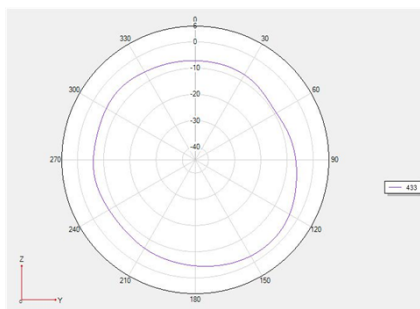
2D., 3D. . Test data(433MHz):

Frequency	Efficiency (%)	Gain. (dBi)
430 MHz	10.85	-3.35
431MHz	10.47	-3.72
432 MHz	10.35	-3.72
. 433MHz	10.43	-3.44
434Megahertz	10.59	-3.15
435 MHz	10.65	-3.19

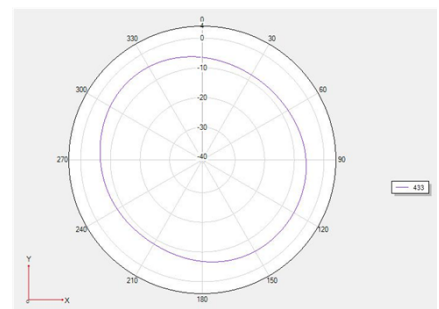
Phi 0 2D Picture



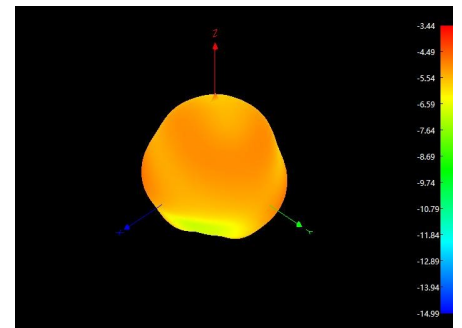
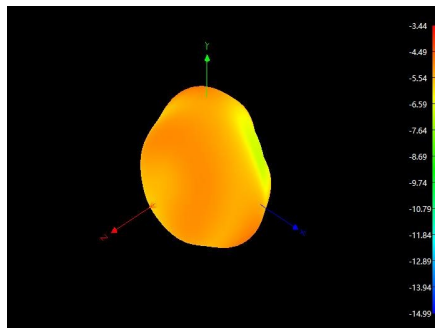
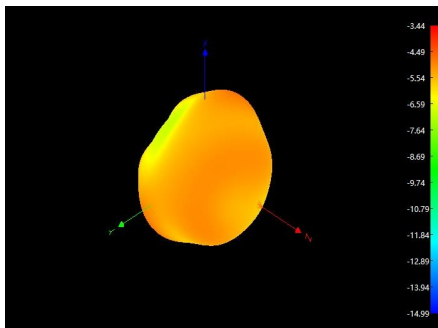
Phi 90 2D. Picture



Theta 90 2D. Picture



.3D 433





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ROHS.Material control report											
I hereby certify that the zero components delivered to your company, the raw materials used in auxiliary materials, and the additives in the production project are all in accordance with RoHS.Environmental protection requirements of the Directive on Restricting the Use of Hazardous Substances (RoHS..Order 2011/65/EC)											
The report on the components of raw materials used in components, auxiliary materials, packaging materials and additives used in the production process is as follows:											
Name of constituent materials Component /Part Name	Component s Material. Composition.	Internet content provider Report number ICP report #	.Testing institut ion Test Organ.	Test time Test date	Have Harm Thing Nature Hold in the mouth Measure(Ppm)						Is it qualified ?? PASS?
					. Comp act disc	Pb.	Hg.	Cr. 6+	PBB.	PBDE .	PASS
Spring	Carbon steel	CANEC2301795601.	SGS.	02/23/21	. ND.	. ND.	. ND.	. ND.	. ND.	. ND.	PASS