



SHENZHEN YINGJIACHUANG ELECTRONIC TECHNOLOGY CO., LTD

<http://www.szsyjc.com>

APPROVAL SHEET

承认书

CUSTOMER NAME	poor handwriting	
CUSTOMER P/N		
PART NAME	433 Spring Antenna	
P/ N	YJC-6N000-B646	
APPROVAL REV.	A0	
DELIVERY DATE	November 17, 2025	
PREPARED BY	Huang Teng	
CHECKED BY	Peng Huang	
APPROVED BY	(Xiao Han)	
Customer Approved		
Prepared By	Checked By	Approved By
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Directory

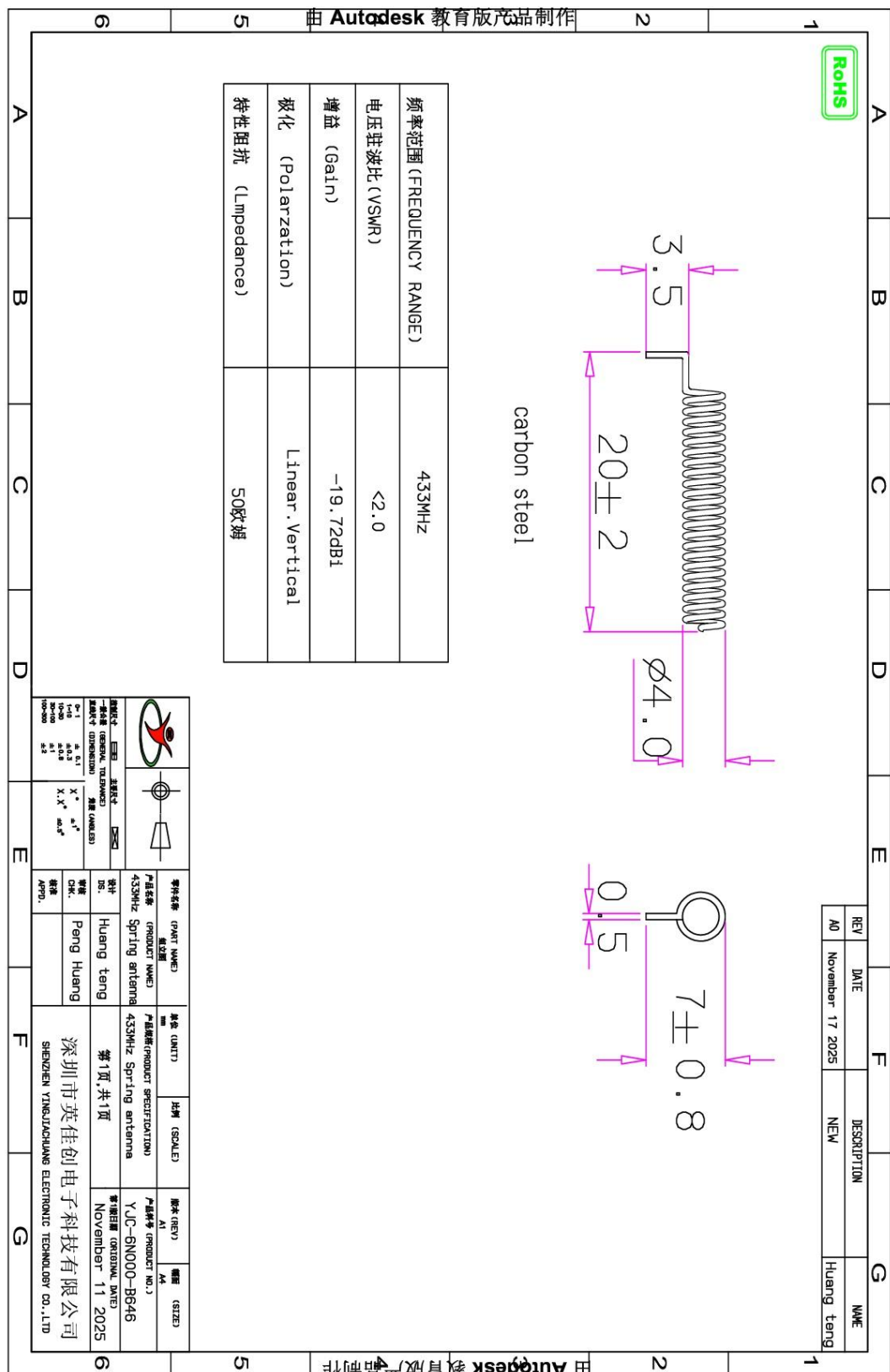
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Revised resume:

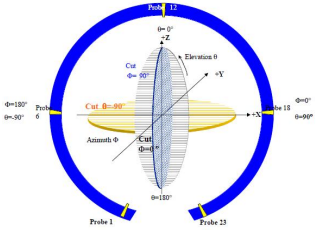
version	Change contents and reasons	date	Sell wholesale
A0	NEW	November 17, 2025	



Antenna plan:



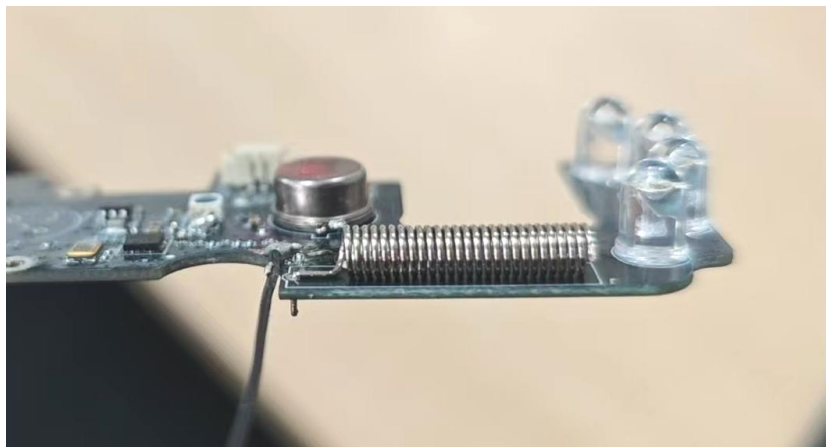
Instrumentation:

	Test items	Test equipment
S Parameter	1. Return Loss 2.VSWR	Network analyzer (Agilent E5071B) (Calibration date:November10,2025-November 09,2026)
Passive test	1. Frequency 2. Gain 3. Radiation Pattern	1.3Dmicrowave darkroom (5m*4m*4m) 2.Network analyzer (Agilent E5071B) (Calibration date:November10,2025-November 09,2026)
Active test	1. TRP 2. TIS	1.3Dmicrowave darkroom (5m*4m*4m) 2.Comprehensive test instrument (CMW500) (Calibration date: November09,2025-November08,2026)
Passive is to collect DUT spherical near-field data through multi-probe, and then the direction map of DUT is calculated by the near-far-field conversion formula. Finally, the gain and efficiency are calculated by the directionality coefficient on the direction map		
Dark room coordinates		test mode
		
CMW500		Agilent E5071B
		

Antenna technical parameters and environmental test:

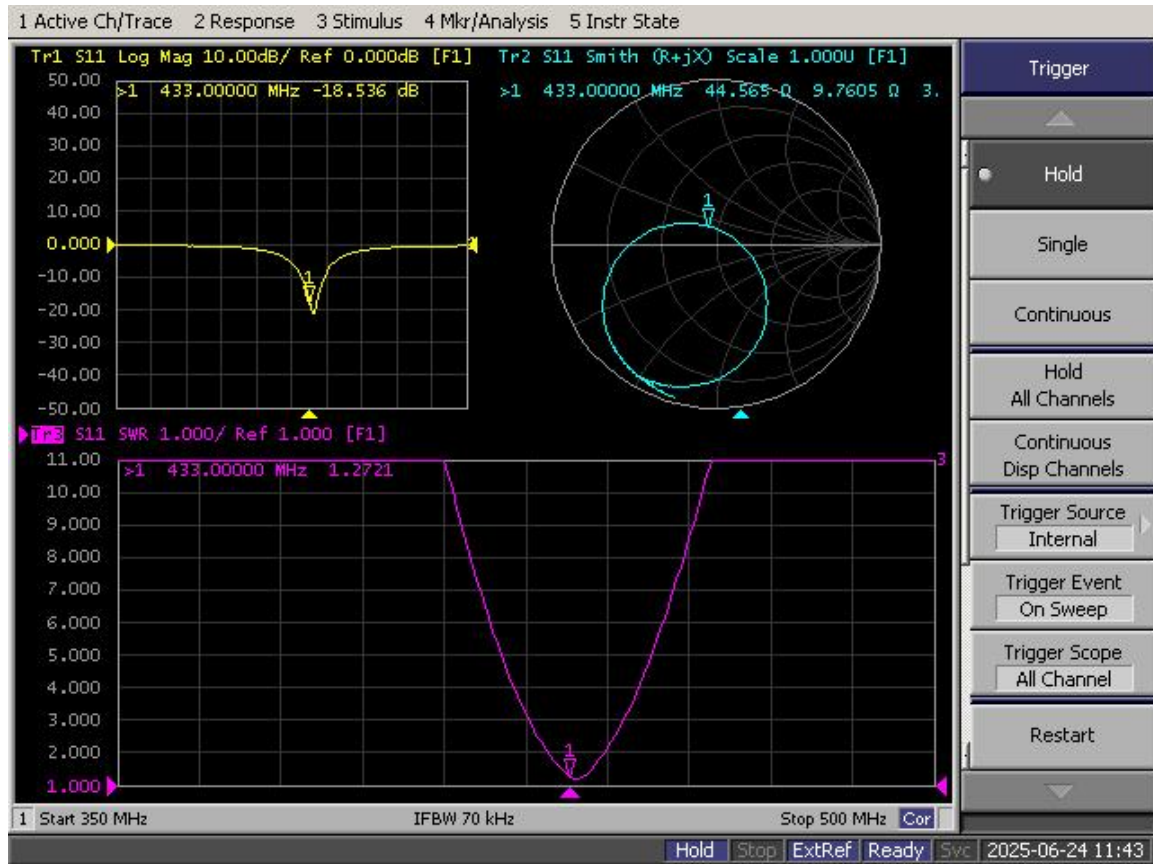
Electrical technical parameters			
Electrical Specifications		Mechanical Specifications	
Frequency Range	433MHz	Antenna material	carbon steel
VSWR	<3.0	Working Temperature	-20℃~+70℃
Input Impedance	50 Ω	Working Humidity	20%~80%
Direction	Omnidirectional	Gain	-19.72dBi
Interface form	Open	Antenna type	monopole

A picture of the antenna in action:





Antenna performance test diagram



2D,3D test data:

Frequency	Efficiency (%)	Gain. (dBi)
431	2.98	-20.05
432	3.01	-19.82
433	3.02	-19.72
434	3.01	-20.13
435	2.96	-21.02