

Shenzhen Jinhong wireless technology Co., LTD

Product Specification

Part Description	Vendor:		Description: JHGJD2404-108-B-BK(Red)	
	Product Name: CampingP		Project:	
	Part NO: 601-P100205-002		Version: A1	
Attachments	☒ Spec		☒ Drawing	☐ Sample
	☐ Cpk Report		☐ FAI Report	☒ Reliability Report
	☐ QC Flow Chart		☐ Molding conditions	☒ Material Verification Sheet
	☒ Packing Content		☐ 3C Certificate	☐ Material inspection standard
Vendor	Design: wanfang.xu Check: cuilan.zhen Approval: fahui.peng			
Technology check	Structure comments/signatures: _____ Industrial/package design comments/signatures: _____ Quality comments/signatures: _____ Hardware opinion/signatures: _____ Project comments/signatures: _____			
Final check	Quality planning: ROHS: ☐ Rohs materiel ☐ Non-Rohs materials			
Approval condition	☐ Approved ☐ Reject			
	☐ Condition approved Subject to conditions: _____			
	☐ Temporary approved limited _____PCS purchase			
Approval by	RD Leader(Technology Director):		Quality Director:	
Distribute	☐ IQC ☐ Purchasing (suppliers) ☐ Sample management/Document control ☐ subcontractor ☐ other			
Address	3rd Floor, Building B, Weiye Innovation 18 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen			

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2 Instructions

This report includes several equipment, test environment and test results for the electrical performance of the antenna, as well as structural drawings and inspection reports of the antenna. Below is a picture of the antenna.



3 Product specifications

Electrical Specifications	
Frequency Range (MHz)	450-470M
Gain (dBi)	2
VSWR	1.5
Input Impedance (Ω)	50
Polarization	Vertical polarization
Maximum input power (W)	10
Input connector type	SMA-J
Mechanical Specifications	
Dimensions (mm)	100.5*15.5
Antenna weight (kg)	15g
Antenna color	red

4 Mechanical properties test

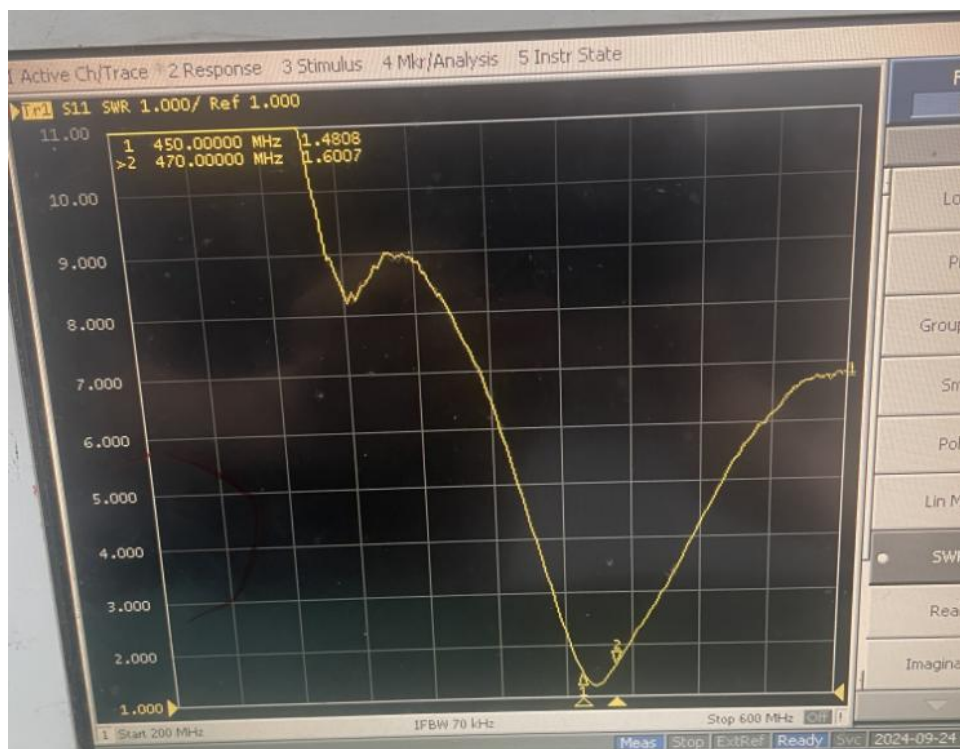
1	BENDING TEST	The load on the wire end 30cm away from the connector is 120g. After fixing the connector, carry out the remote swing test, and the remote swing angle is on the left and right 60 degrees, Test the characteristics after 1000 remote swings	After 1000 times of remote swing, the test characteristics show no damage to the electrical performance
2	STRENG TEST	A static load of 15 pounds is applied to the bottom of the paying off end for one minute	There is no sign of damage to mechanical and electrical properties
3	PULLING FORCE	Conduct tension test between joint and wire rod with tension meter	It can bear the tensile force of 5kg without any damage to the electrical performance
4	VIBRATION TEST	Vibrate in the x-axis direction for 120 minutes with an amplitude of 1.10mm and a vibration frequency of 33.30hz/sec, and vibrate in the y-axis direction 120 minutes, vibration in z-axis direction for 240 minutes	There is no sign of damage to the electrical performance

5 Reliability test

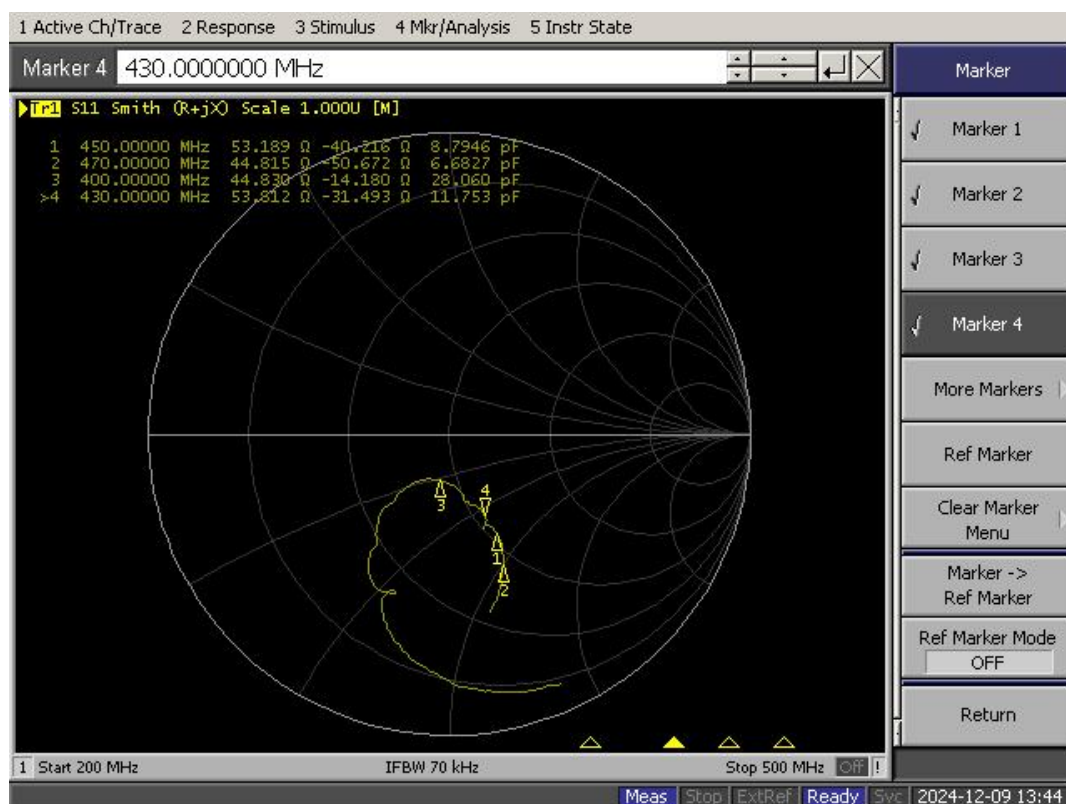
1	SAIT SPRAY TEST	Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6.5~7 Spray volume: 1.4me80cm ² / H compressed air pressure: 1kgf / cm ² Test Relativity: 98 ° Temperature: 45 ° ~ 47 ° Pressure temperature: 35 ° Test time: 24hr	All characteristic range is 30% of the initial value
2	HEAT TEST	85+2℃ for 96 hours, after keep in normal condition for 30min the to test.	
3	HUMIDITY TEST	40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30min the to test.	
4	COLD TEST	-40+2℃ for 96hours, after keep in normal condition for 30min the to test.	

6 Electrical performance test

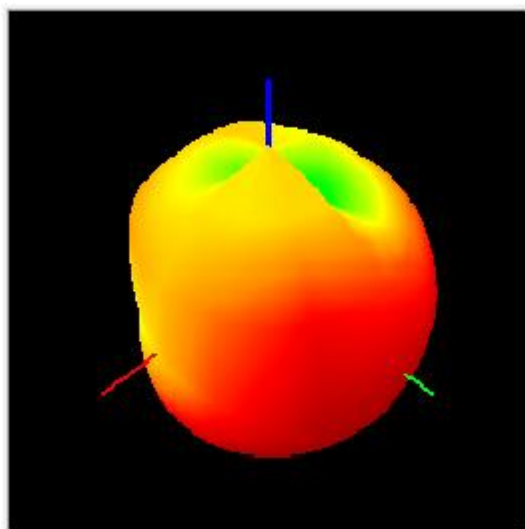
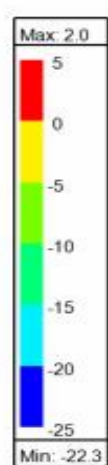
VSWR test



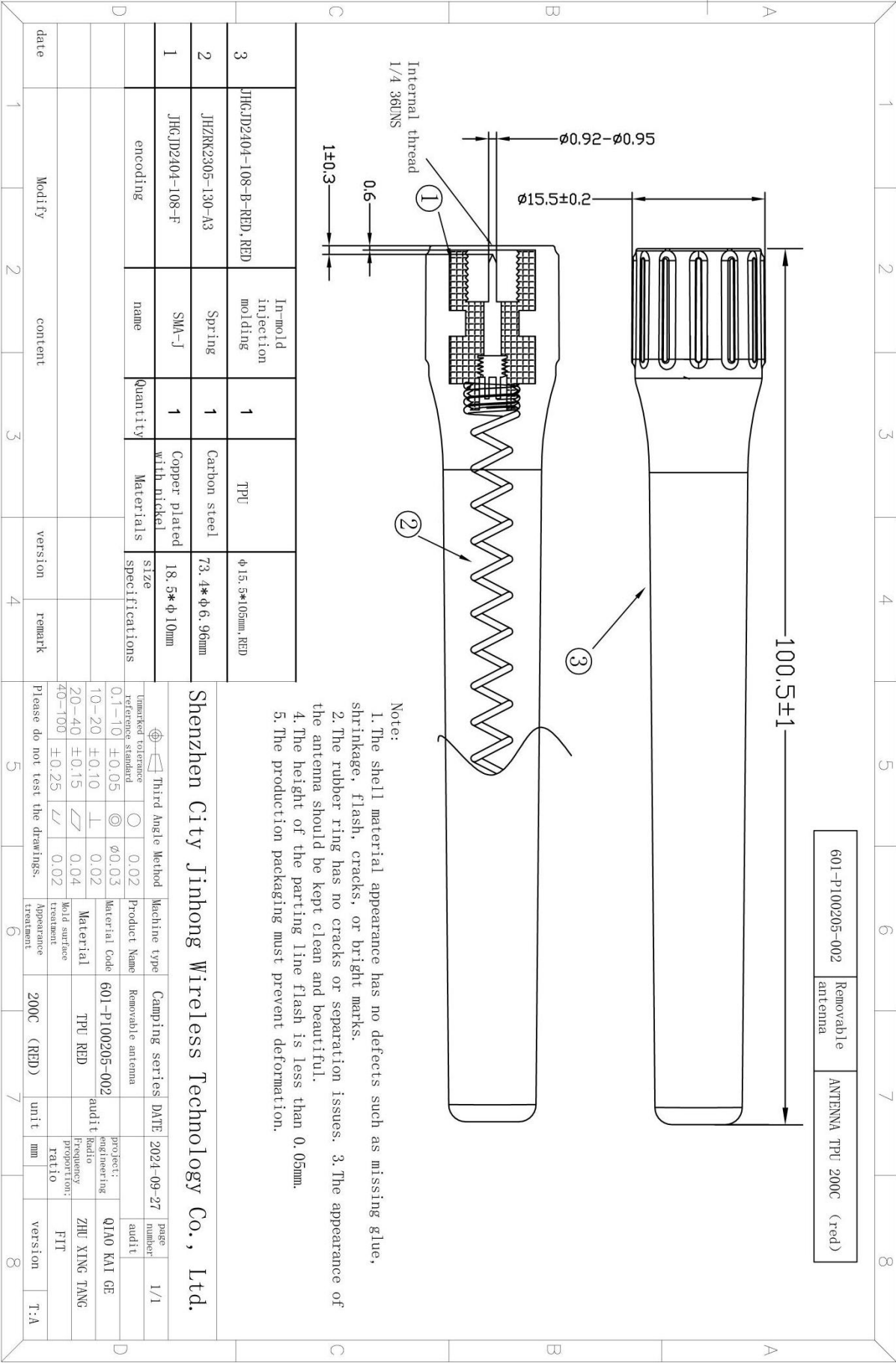
Smith circle chart test



3D chart
460 MHz



7 Engineering drawings



8 Packing method

Inside:

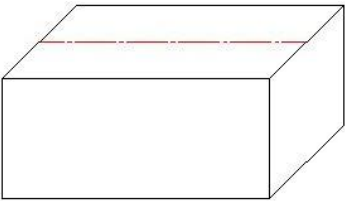
PE bag packaging, 100pcs / bag



PE bag size: 30*180

External :

carton packaging, 50 bags / box



carton packaging size330*270*220