

CHENGDU ASHINING TECHNOLOGY CO.,LTD.

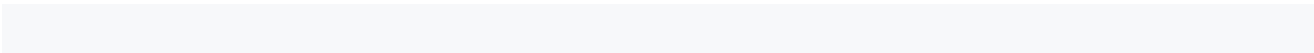
Customer: _____

Customer P/N: _____

ZC P/N: TX900-JZD016

Description: 861-931MHz Antenna

Zhong Chi Checked By:	Customer Approved By:



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1. Specification

Sample Photo	
A. Electrical Characteristics	
Frequency	861-931MHz
V.S.W.R.	<= 2.0
ReTurnLoss(dB)	-10 dB Max
Antenna Gain	1.5±0.5dBi
Polarization	Linear, Vertical
Impedance	50 ohm Nominal
Admitted Power	2 W
Radiation	Omni-directional
B. Material & Mechanical Characteristics	
Material of Plastic	POM / PC
Cable Type	RG178
Connector Type	SMA Male
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C

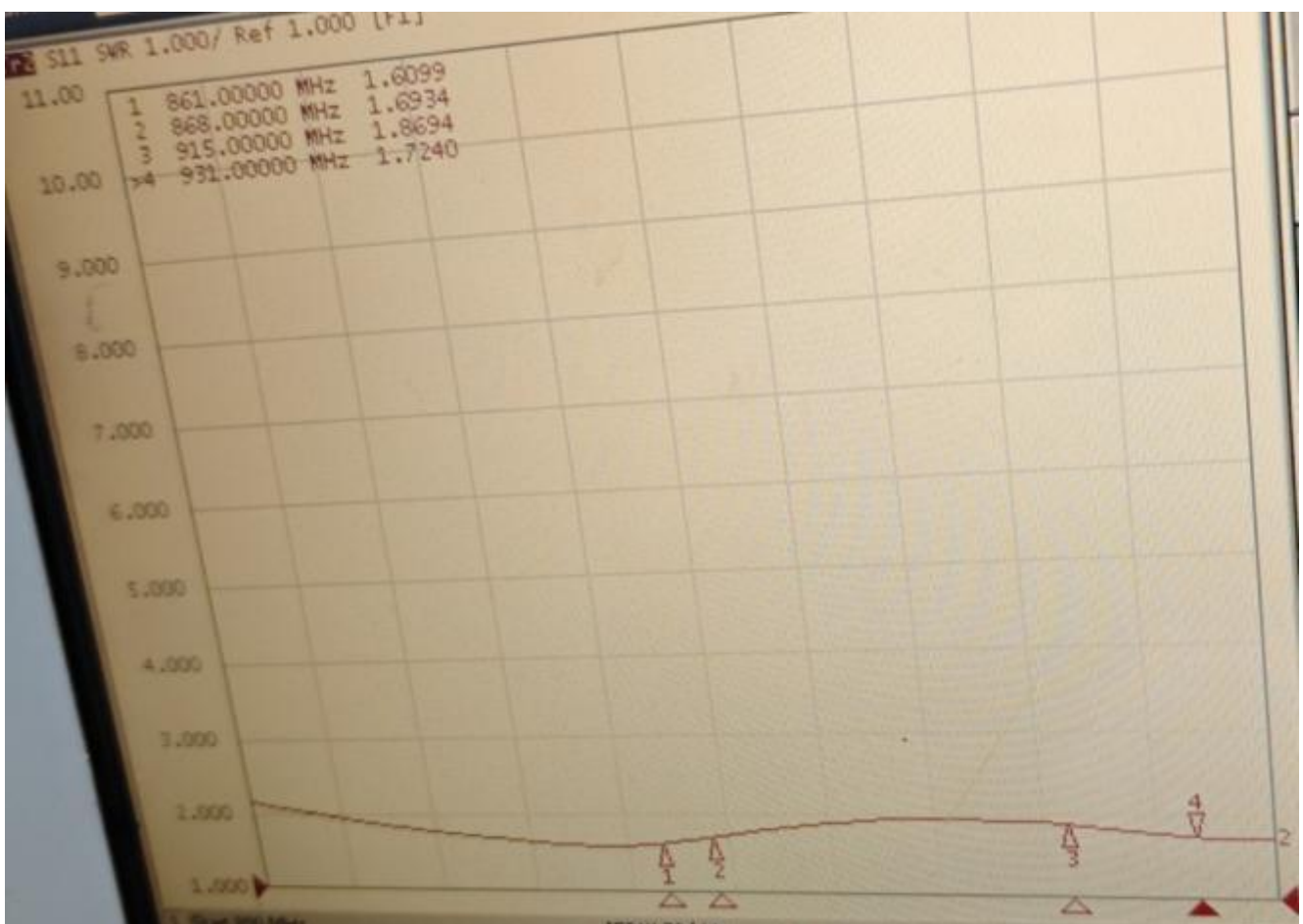
2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification

M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 80°C; Time: 48hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863(EU)

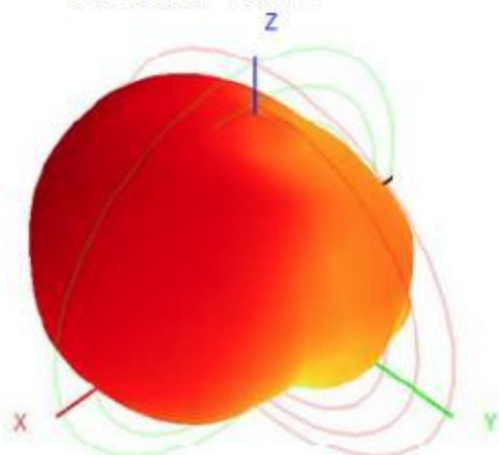
3. Antenna - S Parameter Test Data

861-931MHz

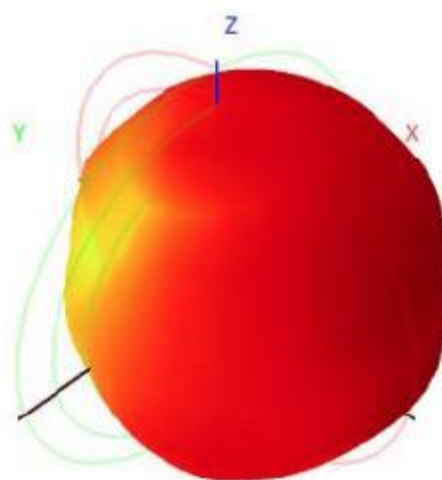
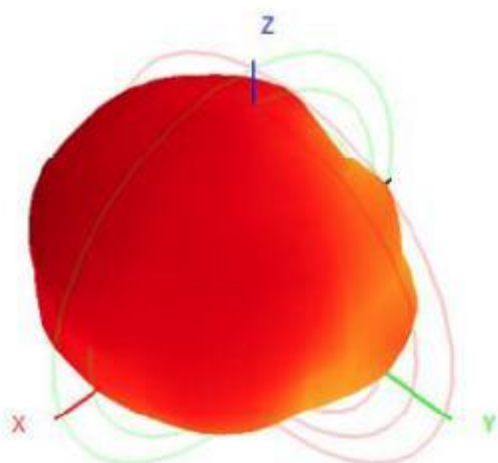
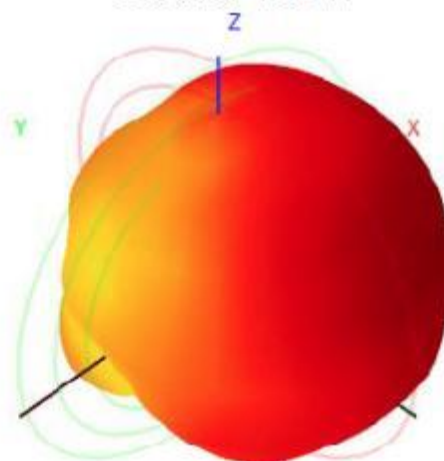


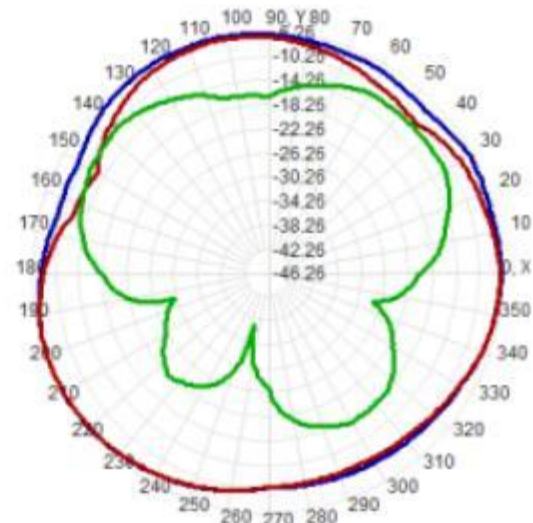
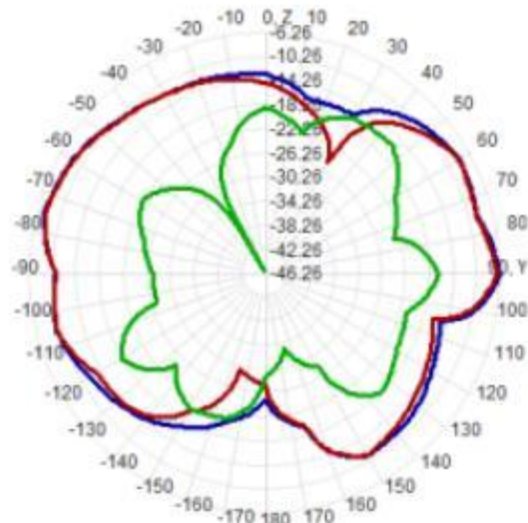
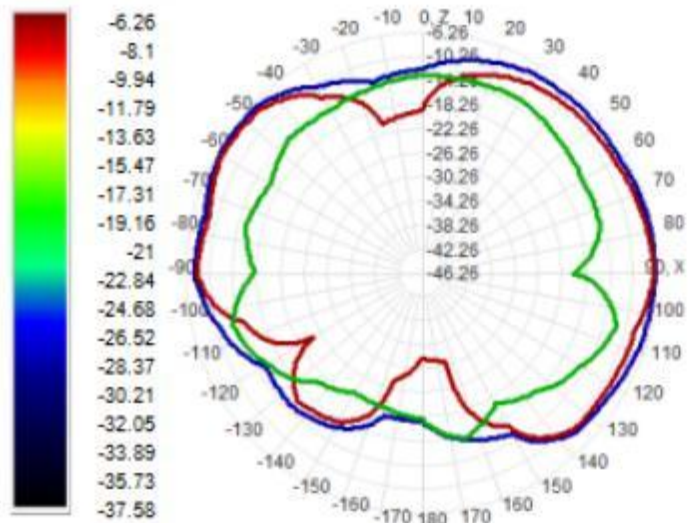
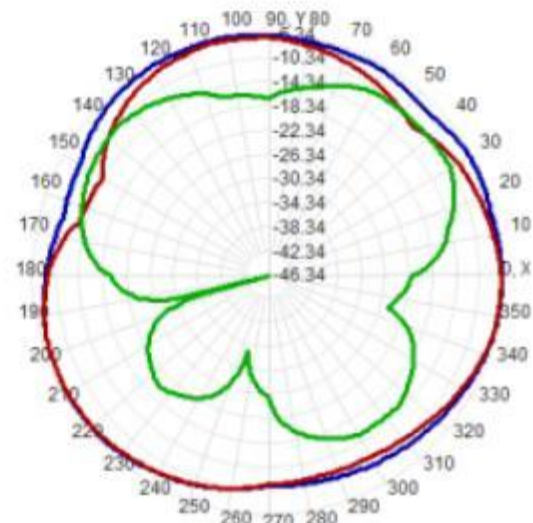
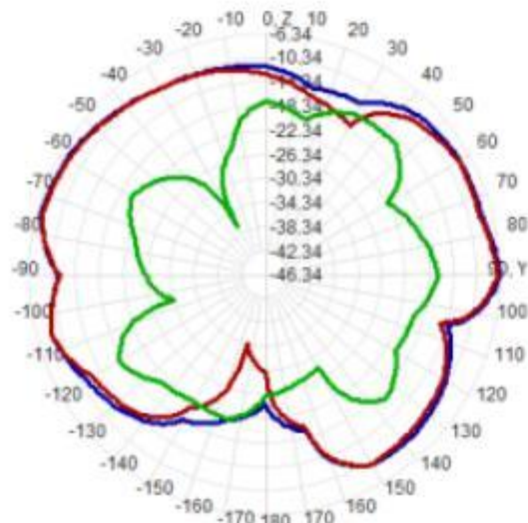
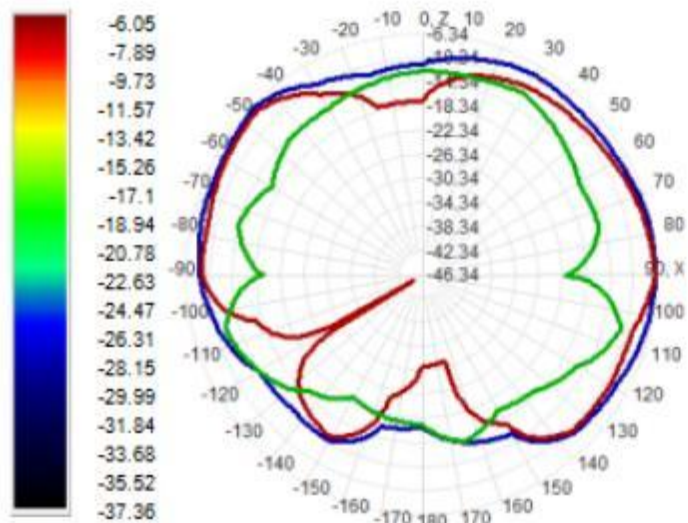
Freq (MHz)	Gain (dBi)	Efficiency (%)	
861	1.889314738	55.86552529	
871	1.071737708	44.34742529	
881	1.224696839	45.14205279	
891	1.980115826	60.41834229	
901	1.742918337	40.23162181	
915	1.481677966	57.81291393	
921	1.625861279	53.33833767	
930	1.504388002	52.55606675	

Front View



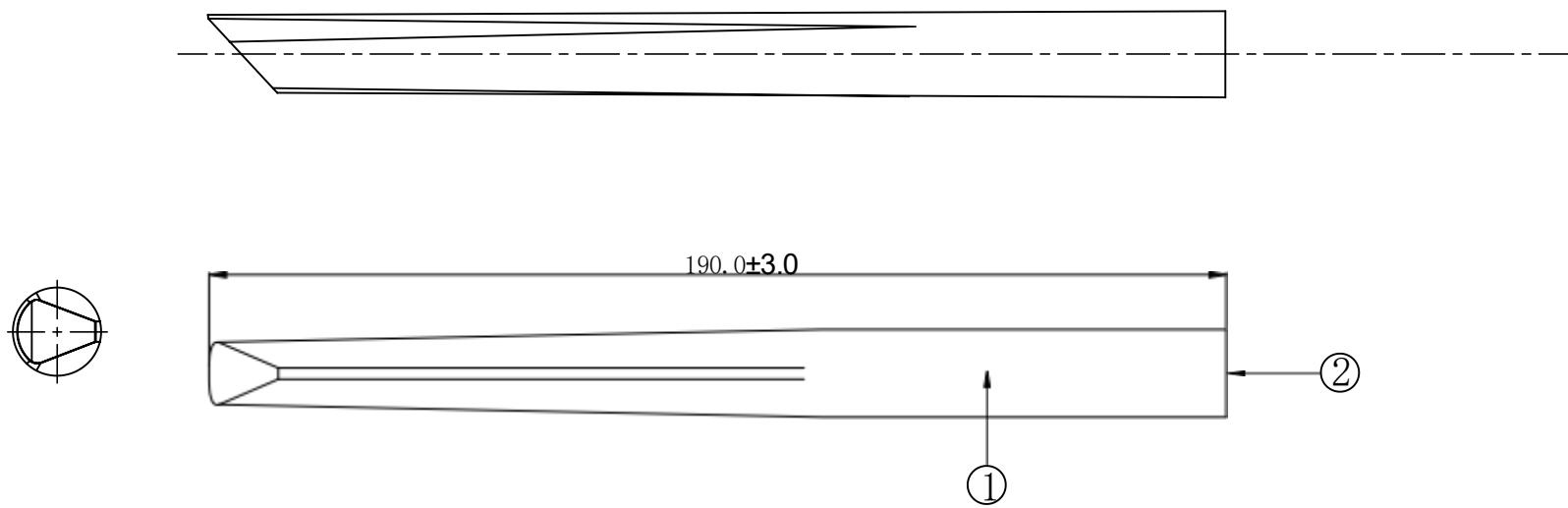
Back View





1	2	3	4	5	6	7	8
RoHS	CUSTOMER				REV.	DESCRIPTION	DATE
	PART NO					Initial release	2024-07-15

内嵌式SMA内螺纹内孔



PART NAME: 861-931MHz Antenna								
PART NO. : TX900-JZD016					DATE: 2024-07-15			
APPROVED BY		CHECKED BY		DESIGNED BY		 H	Tolerance	
							UNITS: mm	X. X ±0.50
							SCALE: 1/1	X. XX ±0.15
							REVISION: A	X° ±3°

2	SMA Male	Au Plated	1	
1	Antenna Cap	TPE, Color:Black	1	
NO	PART NAME	DESCRIPTION	Q. TY	