

CHENGDU ASHINING TECHNOLOGY CO.,LTD.

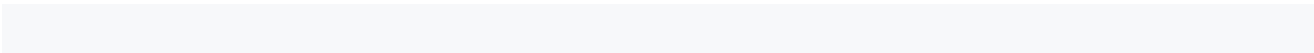
Customer: _____

Customer P/N: _____

ZC P/N: TX900-JZD016

Description: 861-931MHz Antenna

Zhong Chi Checked By:	Customer Approved By:



Index:

- 1. Revision History / Page 3**
- 2. Specification / Page 4**
- 3. Characteristics and Reliability Test / Page 5**
- 4. Antenna - S Parameter Test Data / Page 6**
- 5. Antenna - Radiation Pattern Test Data / Page 7**
- 6. Mechanical and Packing Drawing / Page 8 ~ 9**

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

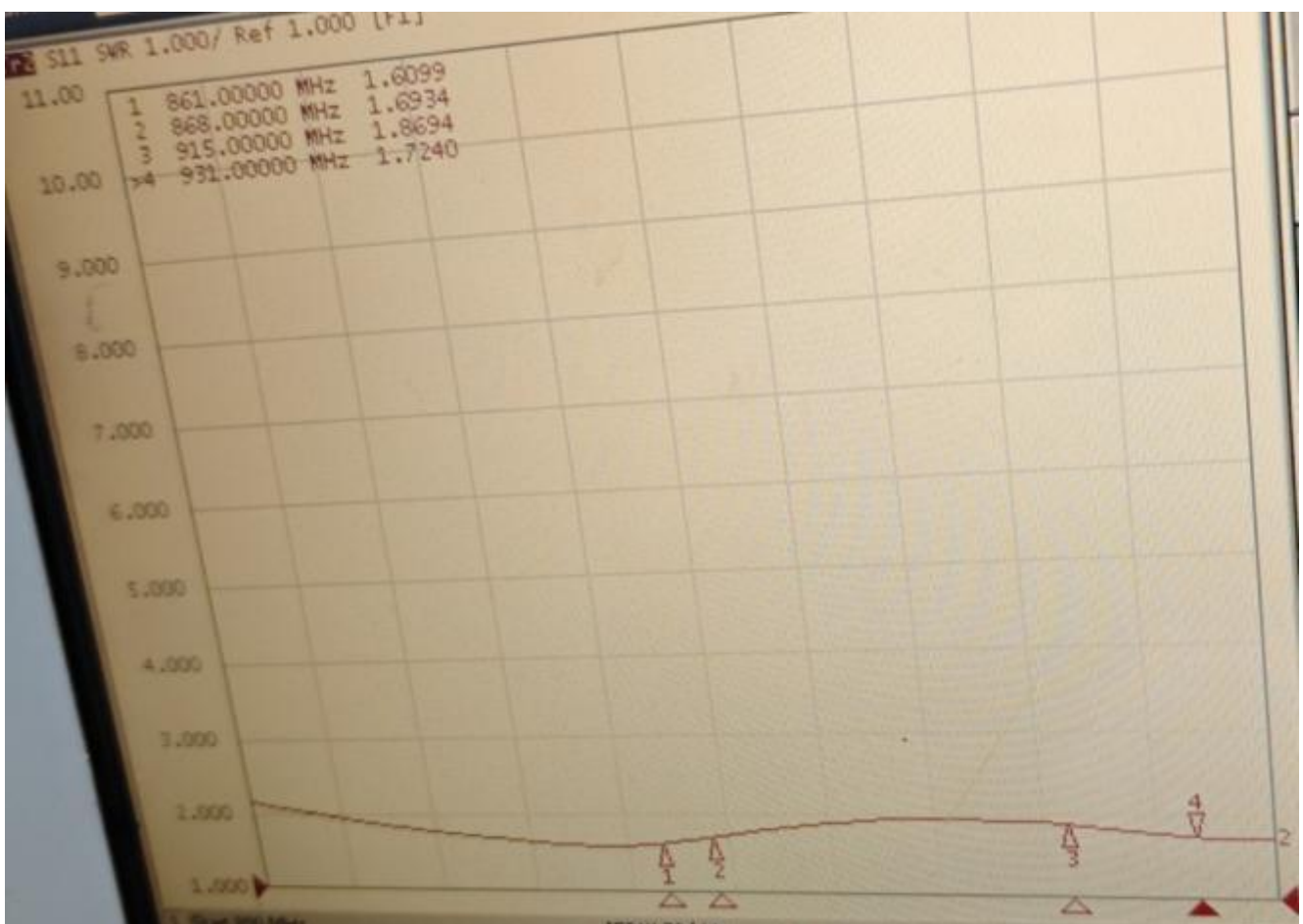
2. Characteristics and Reliability Test

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)

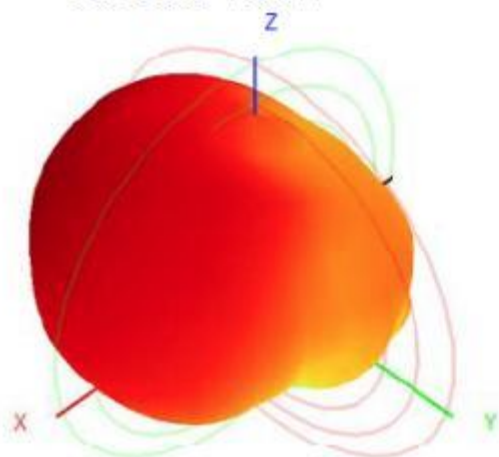
3. Antenna - S Parameter Test Data

861-931MHz

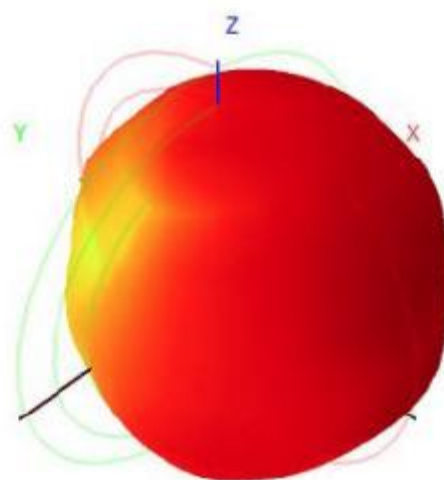
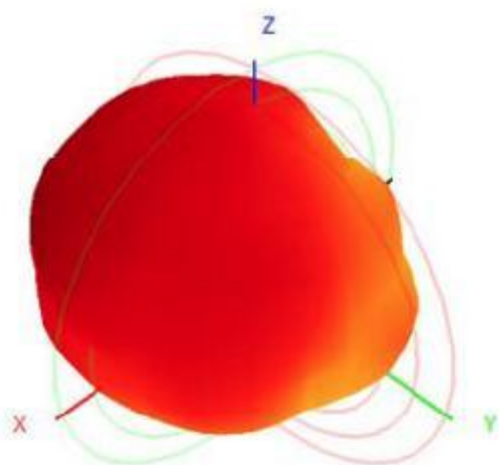
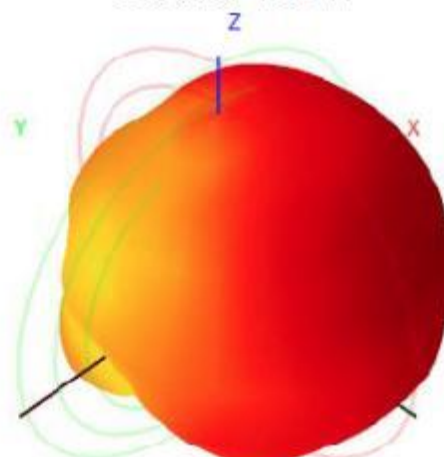


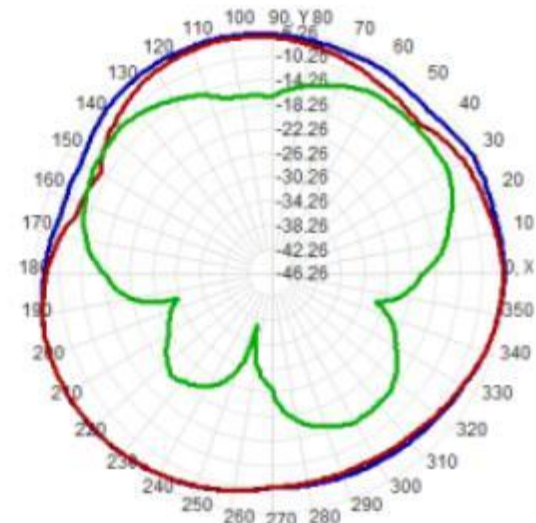
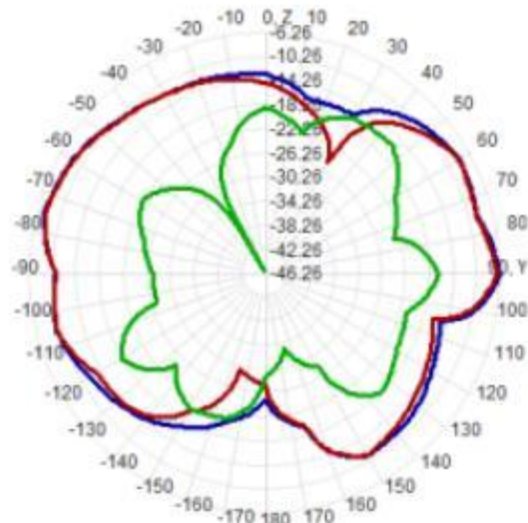
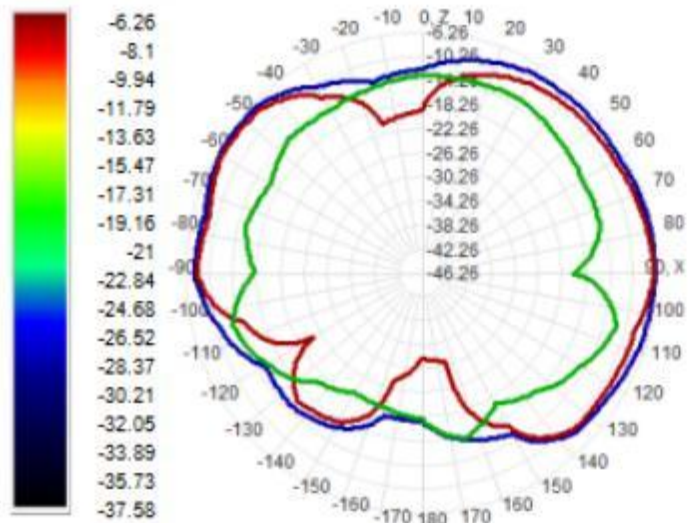
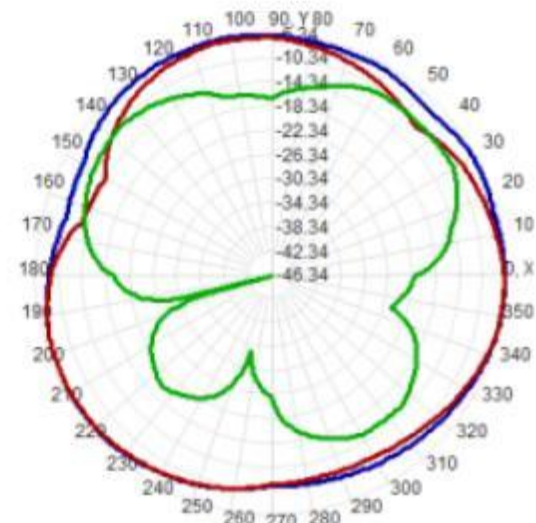
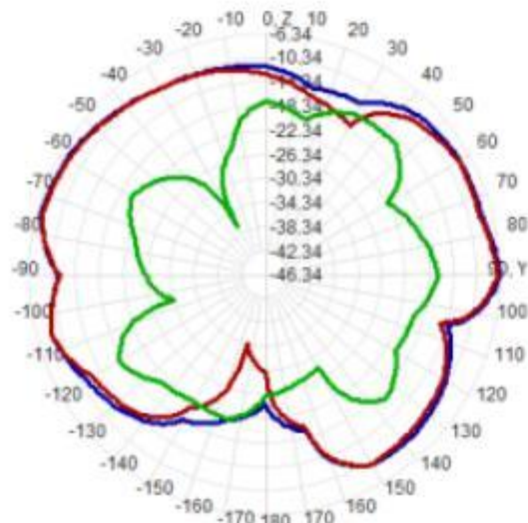
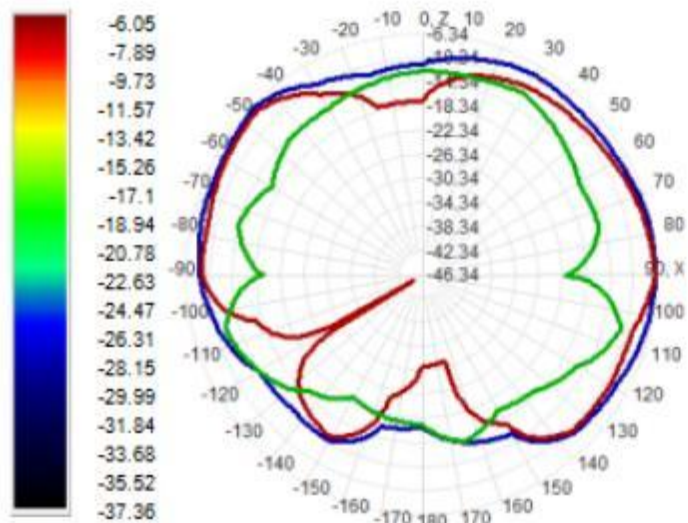
Freq (MHz)	Gain (dBi)	Efficiency (%)
861	1.889314738	55.86552529
871	1.071737708	44.34742529
881	1.224696839	45.14205279
891	1.980115826	60.41834229
901	1.742918337	40.23162181
915	1.481677966	57.81291393
921	1.625861279	53.33833767
930	1.504388002	52.55606675

Front View



Back View





1		2		3		4		5		6		7		8	
RoHS		CUSTOMER				REV.		DESCRIPTION				DATE			
		PART NO				△		Initial release				2024-07-15			
E															
D															
C															
B															
A															

内嵌式SMA内螺纹内孔

190.0±3.0

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				PART NAME: 861-931MHz Antenna													
				PART NO. : TX900-JZD016													
				DATE: 2024-07-15													
2		SMA Male		Au Plated		1		APPROVED BY		CHECKED BY		DESIGNED BY		⊙		Tolerance	
1		Antenna Cap		TPE, Color:Black		1								UNITS: mm		X. X ±0.50	
NO		PART NAME		DESCRIPTION		Q. TY								SCALE: 1/1		X. XX±0.15	
														REVISION: A		X° ±3°	