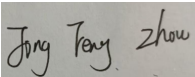


			document number:
Specification For App roval			
Customer:			
Customer:	Dongguan Zhongyida Electronic Technology Co., LTD		
number:		Supplier part number:	
description :	2DB2.4G New white 2 section direct plug true antenna L=150MM+1 generation	Model used:	
Suppliers Acknowledgment (seal):		Customer acknowledges (stamp):	
Produced by: Zhou Jingfeng	Structure: 		
examine and verify:	Date: 2025.07.01		

catalogue

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1. Product pictures	3
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1. Product pictures

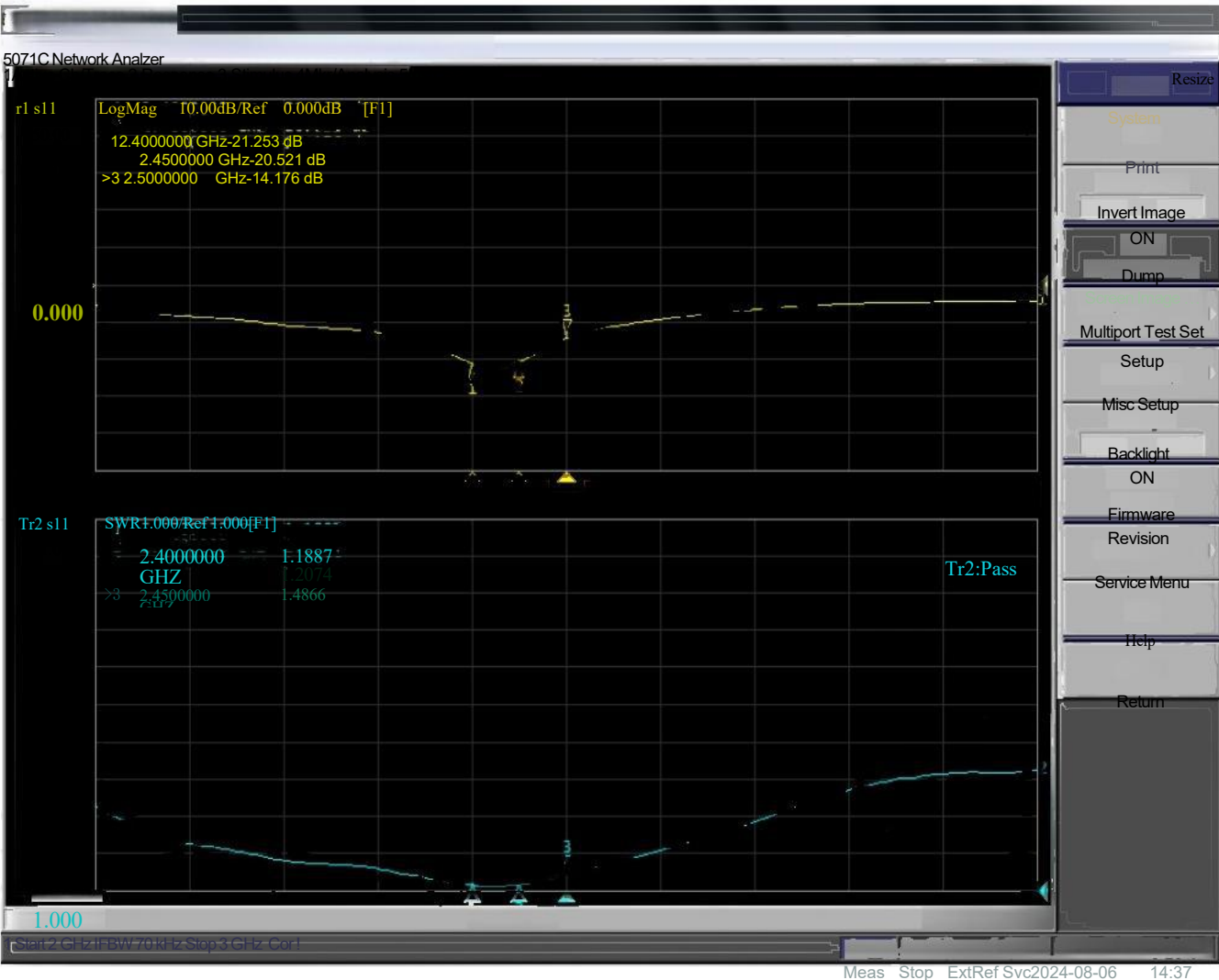


2. Product parameters

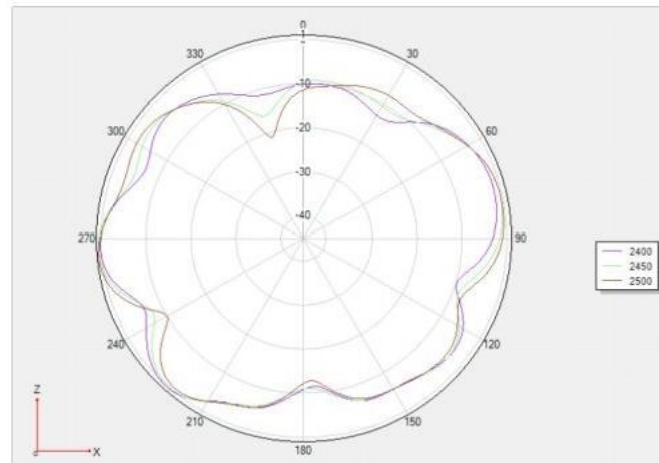
Product test parameters			
Name	External antenna	Model Type	2DB 2.4G new white 2 section direct plug true antenna L=150MM+ Generation 1
Electrical Specifications			
FREQUENCY RANGE	2400-2500Mhz	Polarization	perpendicular
Impedance	50 Ω	radiation direction	omnidirectional
Standing wave ratio	≤ 2	Power capacity	50W
VSWR		Power	
Gain	2.66dBi	Bandwidth	100MHz

Mechanical specifications (MS)			
Dimensions	105±2 MM	ChassiColor)	white
Connector	A generation of terminals	CableLength	150MM±3MM
Chassis material	ABS		
Working Temperature	40°C ±85°C	Limit Temperature	-40°C ±85°C

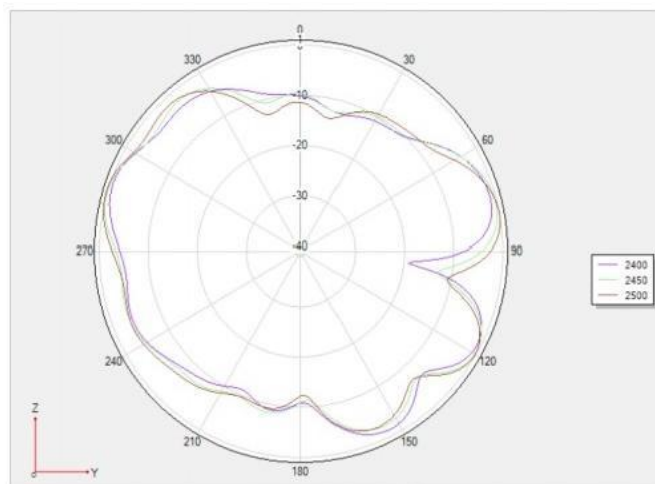
3. S11 (VSWR, Return loss, Smith) data 2D-3D direction diagram one 。 Network analyzer report



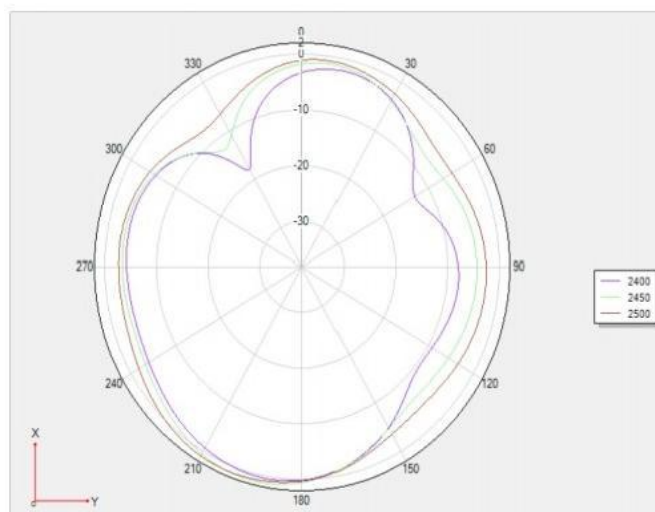
Two. 2D-3D direction diagram



$\Phi 0^\circ\text{C}$ 2D

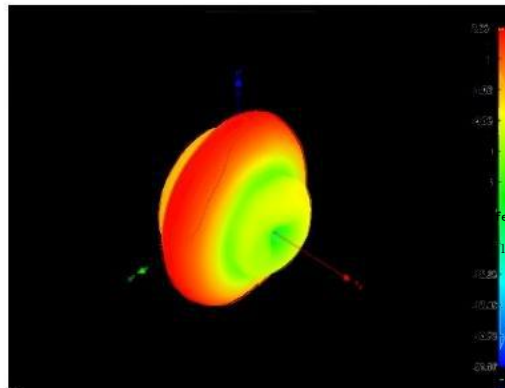


$\Phi 90^\circ\text{C}$ 2D

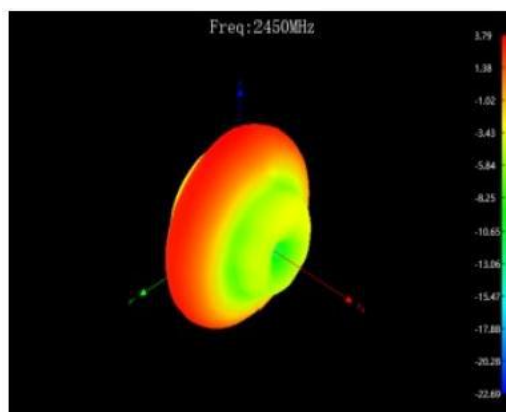


$\Theta 90^\circ\text{C}$ 2D

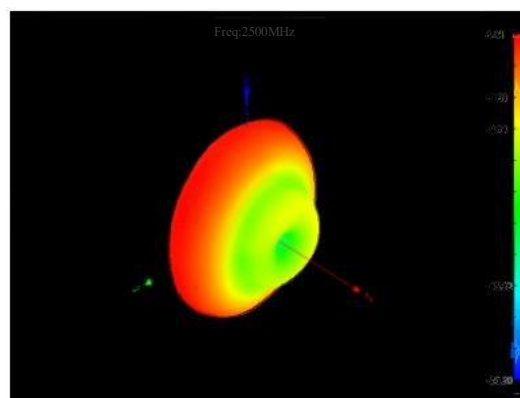
Two. 2D-3D direction diagram



2400MHZ



2450MHZ

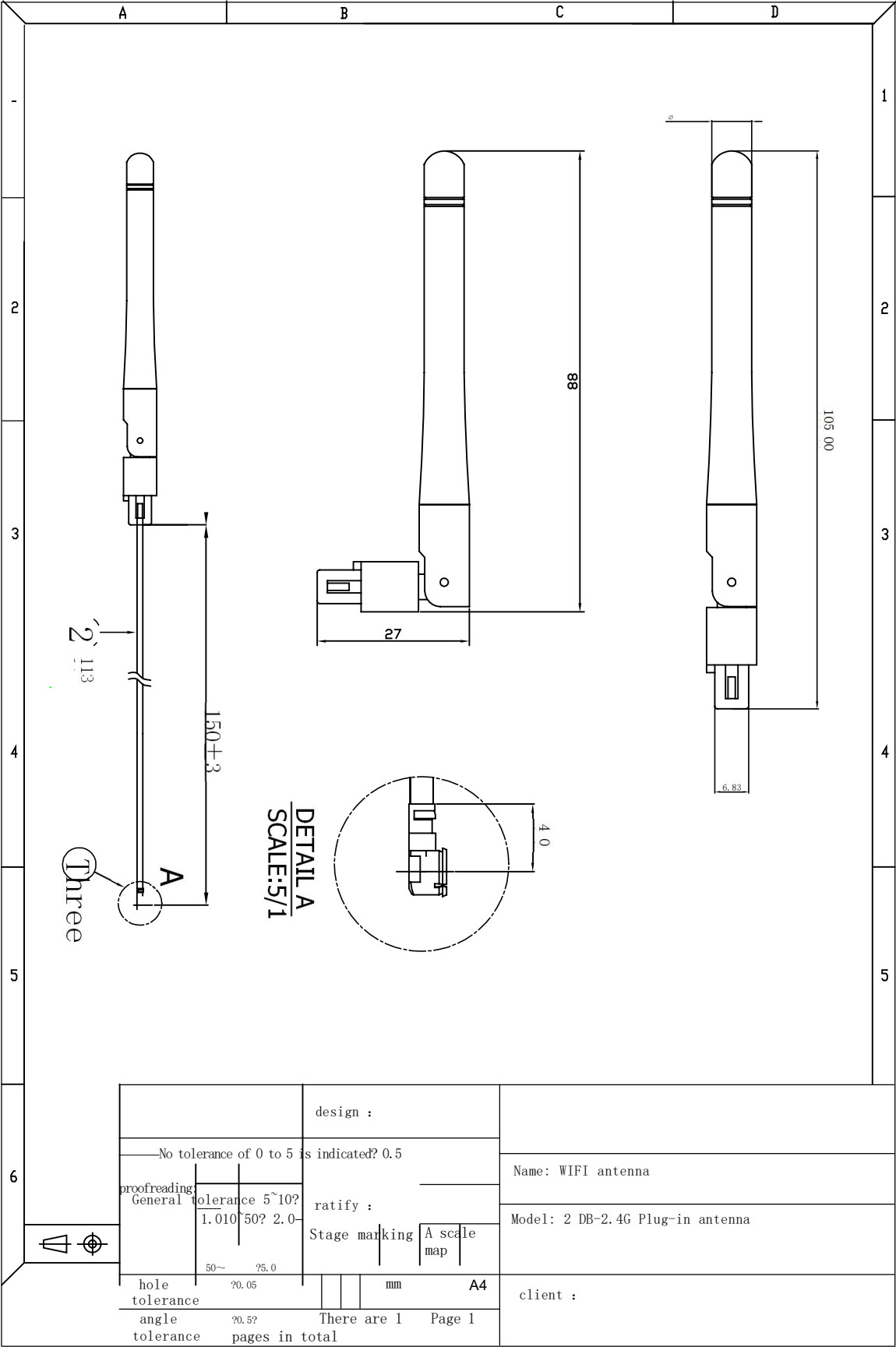


2500MHZ

4. Antenna efficiency and gain value

Frequency	Efficiency	Efficiency/%	Frequency	MaxGain/ (AvgGain/dBi			
2400	-3.69	42.76	2400	2.01	-3.69		
2450	-3.23	47.53	2450	2.47	-3.23		
2500	-3.05	49.55	2500	2.66	-3.05		

5. Product size drawing



6. Environmental performance test

Storage environment	Test temperature, humidity and air pressure are tested as follows in the absence of a specification: 1. The temperature is $-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$ 2. Relative humidity is 45%-85% 3. The air pressure is 86 kpa-106 kpa	Electrical and mechanical performance is normal
thermocycling	Five cycles were performed between 70°C and 40°C , followed by normal conditions 1-2H, check the appearance quality.	The size shall meet the requirements and should Its fulfilling On mechanical and electrical properties
Resistant to constant humidity and heat trial	Relative humidity $95\pm 3\%$, test temperature: 40°C . After 2H action, The electrical properties of the sample were measured within 5 min after the sample was removed, and the sample was normal Check the appearance quality after 1-2H	The size shall meet the requirements and should Its fulfilling On mechanical and electrical properties
vibration test	Frequency range: 10-55 HZ, displacement amplitude: 0.35 MM, acceleration amplitude: 50.0M/S, Frequency sweeping cycle: 30 times	Electrical and mechanical performance is normal
fall-down test	The 1M high altitude is freely dropped three times in the direction of mutually perpendicular axes	Electrical and mechanical performance is normal