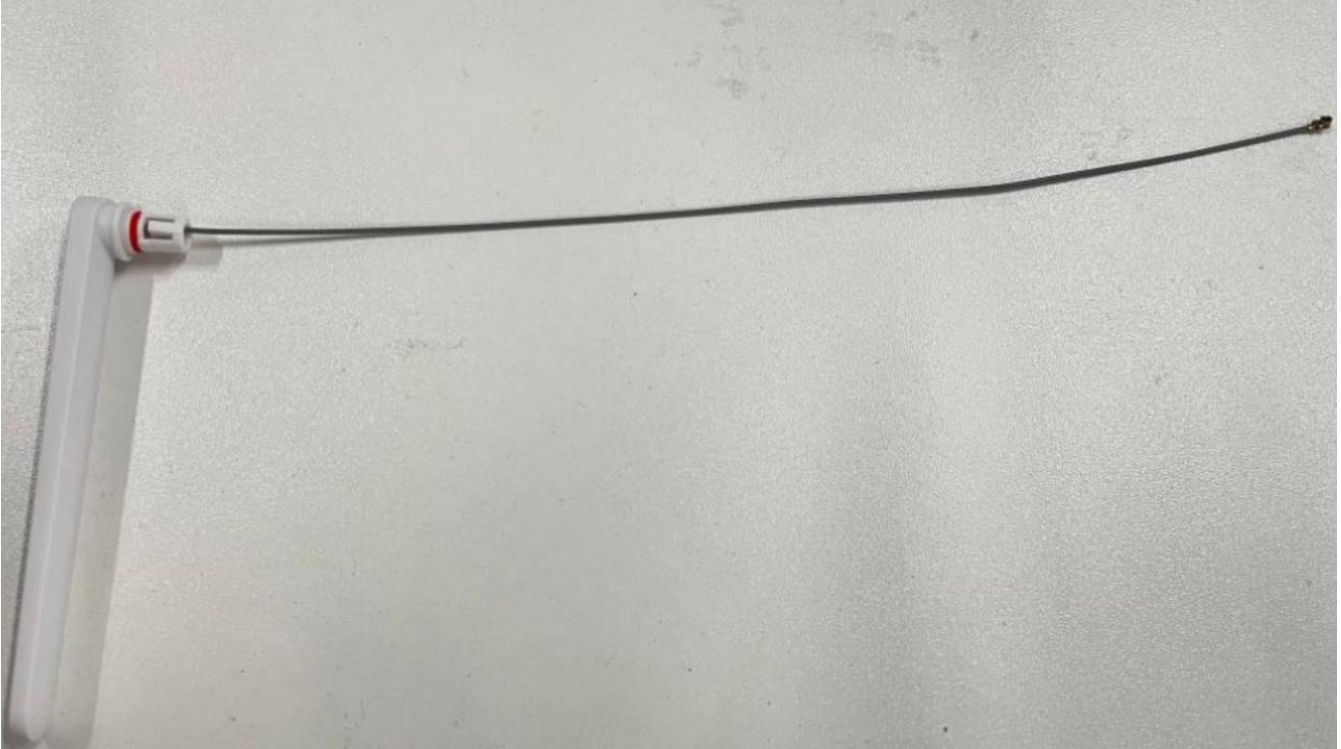


			Document Number:
Specification For Approval			
Customer Name : Customer:			
Supplier Name : Customer:		Dongguan Zhongyida Electronic Technology Co., Ltd	
Customer Part No. :		Supplier Part No. :	
Product Description : 2.4-5.8G-W71A White Antenna L=250mm+Gen1 Terminal		Applicable Model:	
Supplier Approval (Seal):		Customer Approval (Seal):	
Prepared By: Zhou Jingfeng	Structure: Zhou Jingfeng:		
Reviewed By:	Date: 2025.05.14		

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1. Product and Assembly Diagram



2. Product Parameters

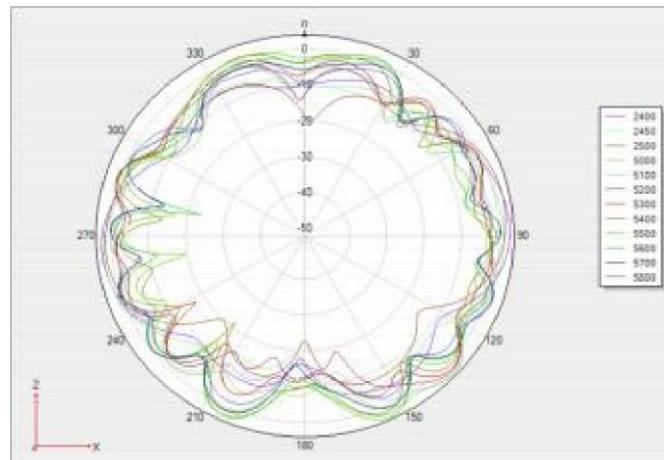
Product Test Parameters			
(Product Name)	External Dual-Band Antenna	(Model Type)	W71AWhite Antenna L=250mm+Gen1 Terminal
(Electrical Specifications)			
(Frequency Range)	2400-5800MHZ	(Polarization)	Vertical
(Impedance)	50 Ω	Radiation Pattern	Omnidirectional
(VSWR)	≤ 2	(Power)	50W
(Gain)	3dBi	(Bandwidth)	100MHz
(Mechanical Specifications)			
(Dimensions)	105.5MM $\pm$ 2MM	(Chassis Color)	White
(Connector)	Gen 1 Terminal	(Cable Length)	250MM $\pm$ 2MM
(Chassis Material)	PC		
(Working Temperature)	-40°C $\pm$ 85°C	(Limit Temperature)	-40°C $\pm$ 85°C

3.S11 (VSWR 、 Return loss 、 Smith) Date

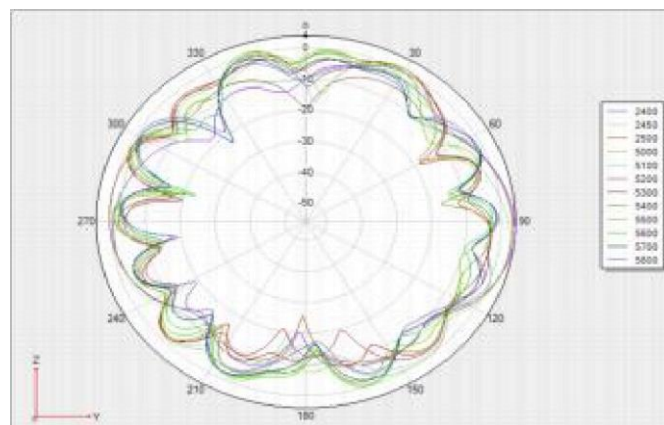
3.1 Network Analyzer Report



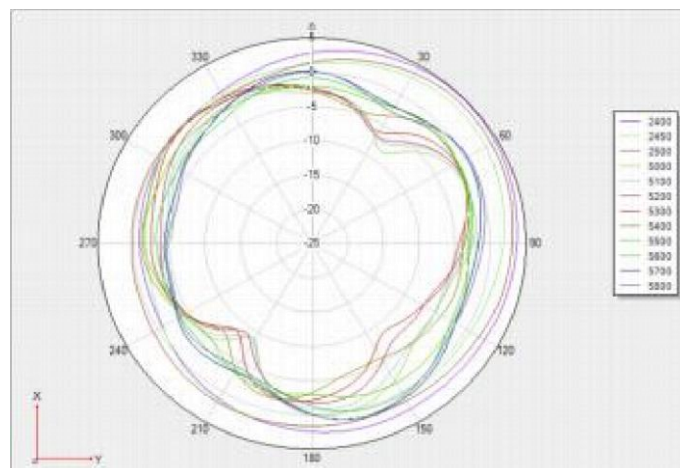
3.2 Anechoic Chamber Data – 2D Radiation Patterns



Phi 0 2D

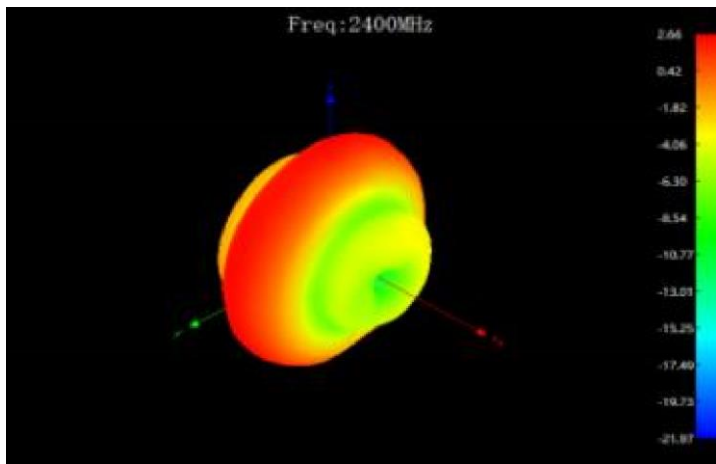


Phi 90 2D

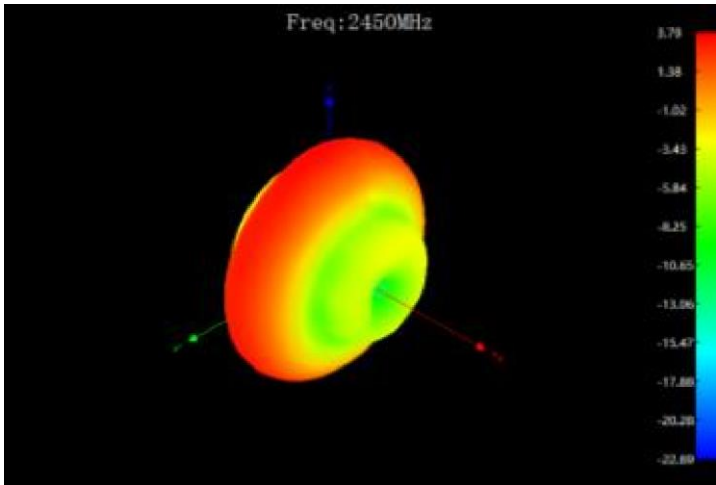


Theta 90 2D

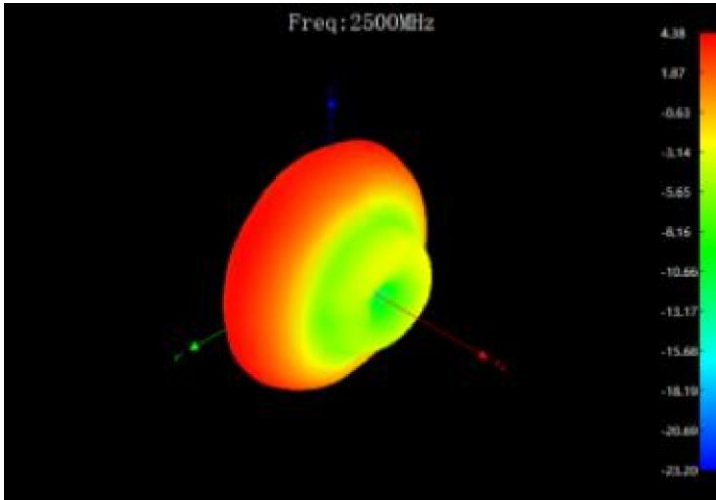
3.3 Anechoic Chamber Data – 3D Radiation Patterns



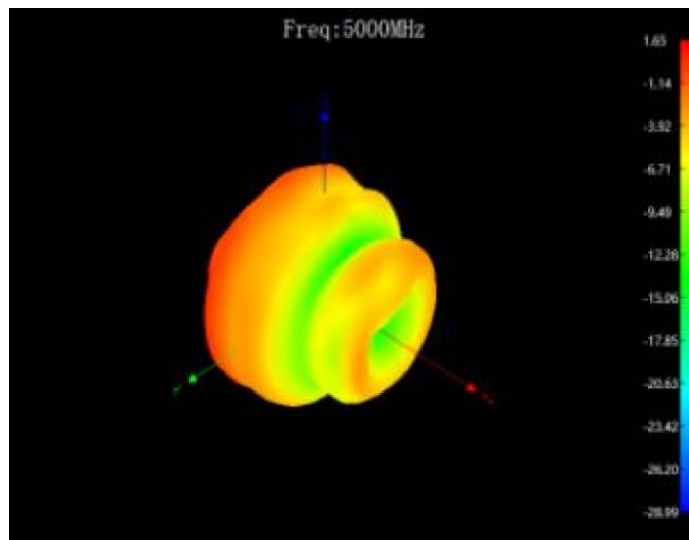
2400MHZ



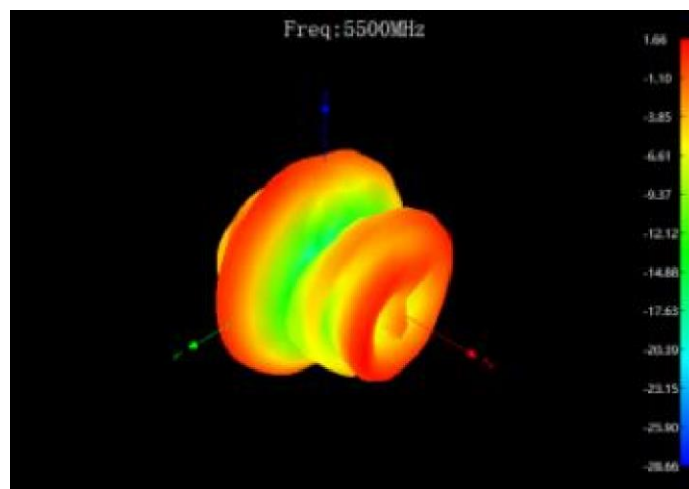
2450MHZ



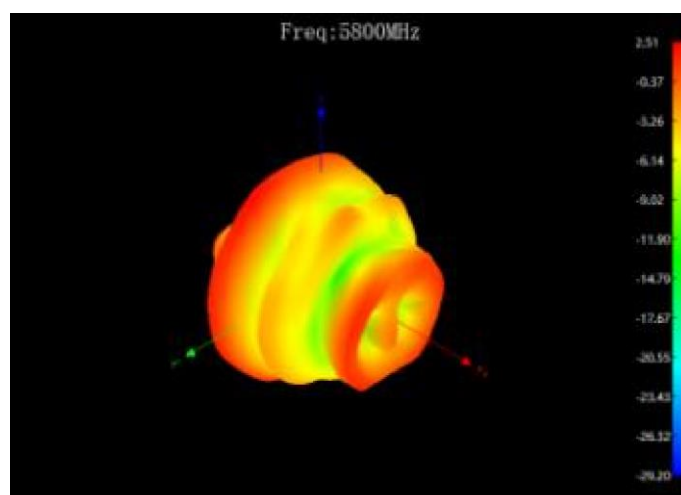
2500MHZ



5000MHZ



5400MHZ

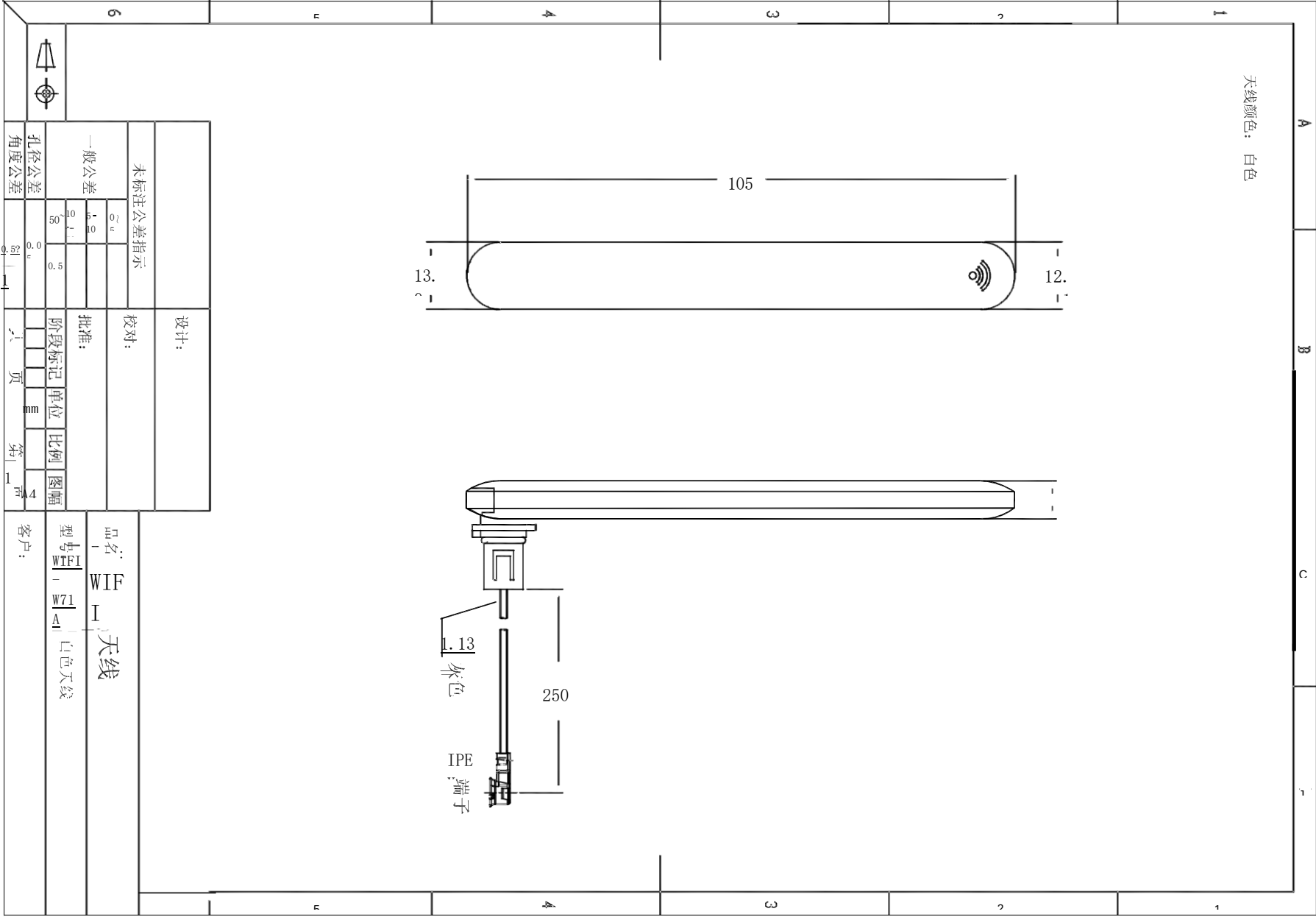


5800MHZ

4. Antenna Efficiency and Gain Value

Frequenc	Efficiency	Efficiency / %	Frequenc	MaxGain/	AvgGain/dBi
2400	-3.03	49.77	2400	2.66	-3.03
2450	-2.22	59.98	2450	3.79	-2.22
2500	-1.67	68.08	2500	4.38	-1.67
5000	-3.15	48.42	5000	1.65	-3.15
5100	-2.67	54.08	5100	0.26	-2.67
5200	-2.3	58.88	5200	0.17	-2.3
5300	-2.34	58.34	5300	1.16	-2.34
5400	-2.46	56.75	5400	1.55	-2.46
5500	-2.68	53.95	5500	1.66	-2.68
5600	-3.14	48.53	5600	1.64	-3.14
5700	-2.67	54.08	5700	2.18	-2.67
5800	-2.26	59.43	5800	2.51	-2.26

五、产品尺寸图纸



6. Environmental Performance Tests

Storage Environment	Test conditions (temperature, humidity, air pressure) unless otherwise specified: 1. Temperature: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 2. Relative Humidity: 45%-85% 3. Air Pressure: 86kpa-106kpa	Electrical & Mechanical performance normal
High/Low Temperature Test	5 cycles between $+70^{\circ}\text{C}$ and $+40^{\circ}\text{C}$, then under normal conditions for 1-2 hours, check appearance	Dimensions shall meet specifications and satisfy mechanical & electrical performance.
Damp Heat (Steady State) Test	Relative Humidity $95\% \pm 3\%$, Temperature: $+40^{\circ}\text{C}$. After 2 hours, measure electrical performance within 5 min after removal. Place sample under normal conditions for 1-2 hours, check appearance.	Dimensions shall meet specifications and satisfy mechanical & electrical performance.
Vibration Test	Frequency 10-55HZ, Displacement Amplitude: 0.35MM, Acceleration Amplitude: 50.0M/S, Sweep Cycles: 30	Electrical & Mechanical performance normal
Drop Test	Free fall from 1m height, 3 times in each of three mutually perpendicular axes	Electrical & Mechanical performance normal