

Document number:

Specification For Approval

Customer name:
customer:

Name of supplier:
Customer:

Dongguan zhongyida electronic technology co., ltd

Customer Item:

Supplier Item:

Product description:

2.4-5.8W71 white antenna
L=230mm
+terminal

Matching model
:

Supplier acknowledges (seals):

Customer acknowledges (seals):

Production: Zhou Jingfeng

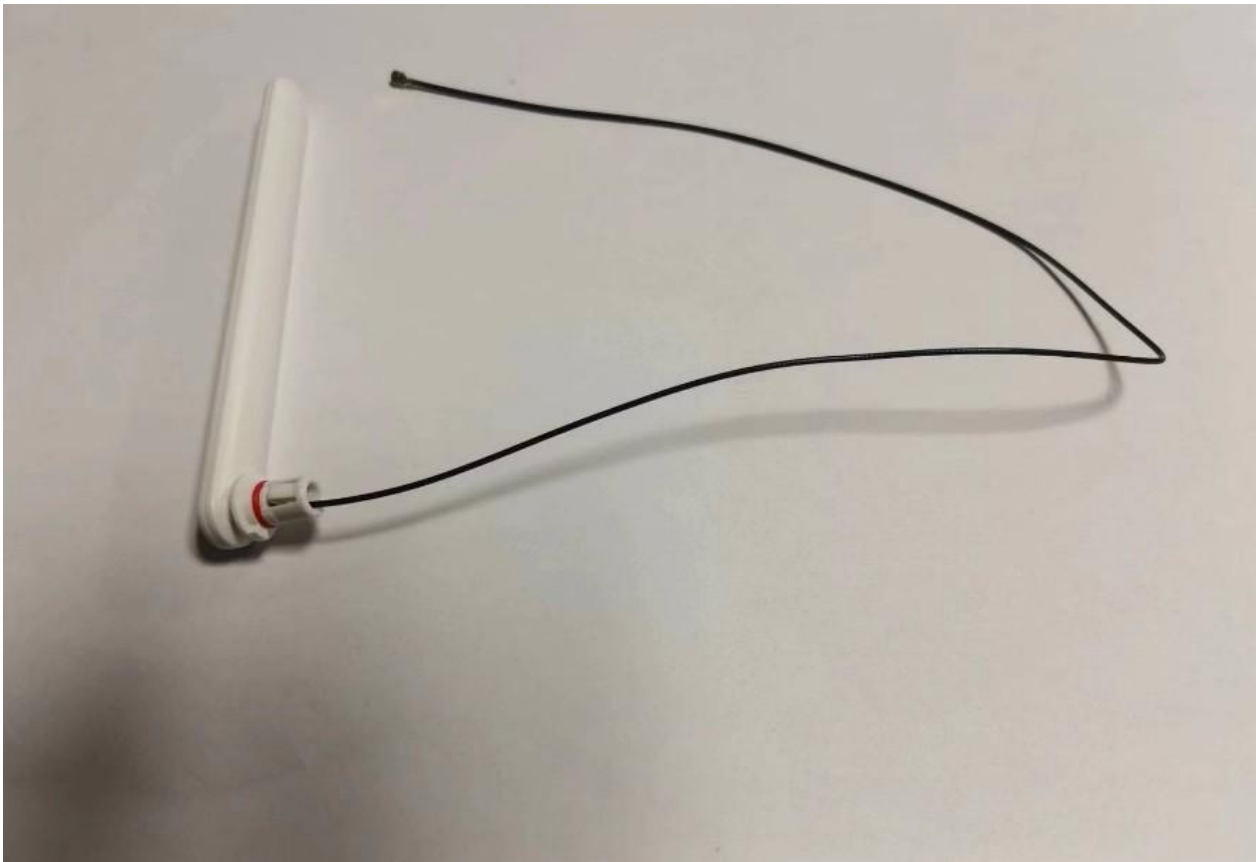
Structure: Zhou Jingfeng

Audit:

Date: August 2, 2024

catalogue

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Second, the product parameters

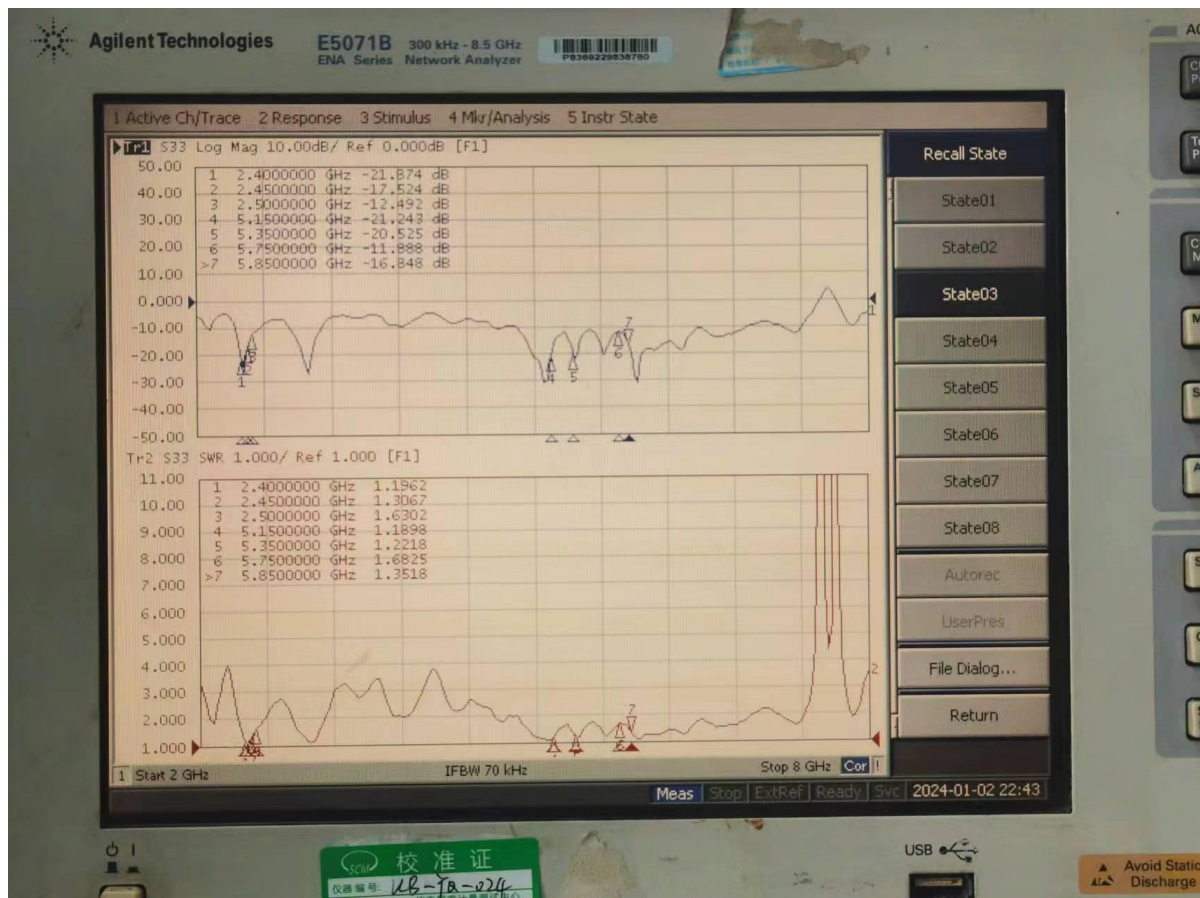
Product test parameters			
Product Name (name)	2.4-5.8W71 White antenna L=230mm+ terminal	Product type (Model Type)	
Electrical performance indicators (Electrical Specifications)			
Frequency range (frequency range)	2.4G-5.8G	Polarization (polarization)	perpendicular/vertical
Input Impedance	50 Ω	radiation direction	omnidirection
Standing wave ratio (VSWR)	≦2	Power capacity (power)	50W
Gain	3dBi	Bandwidth	100MHz

Mechanical Specifications (mechanical specifications)

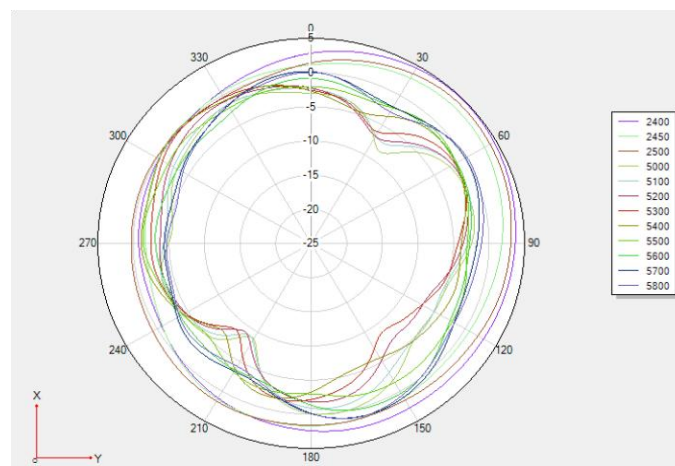
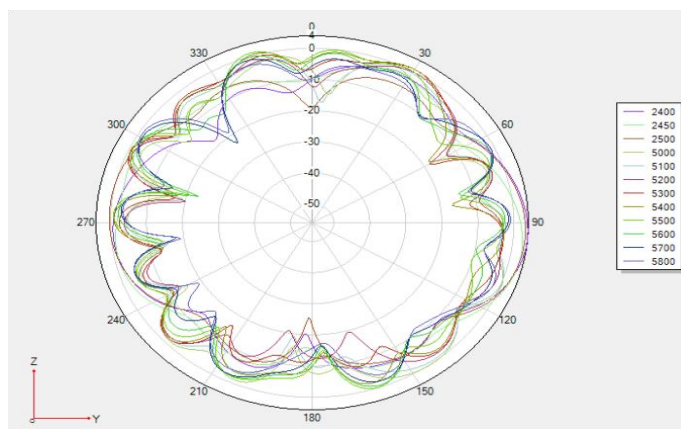
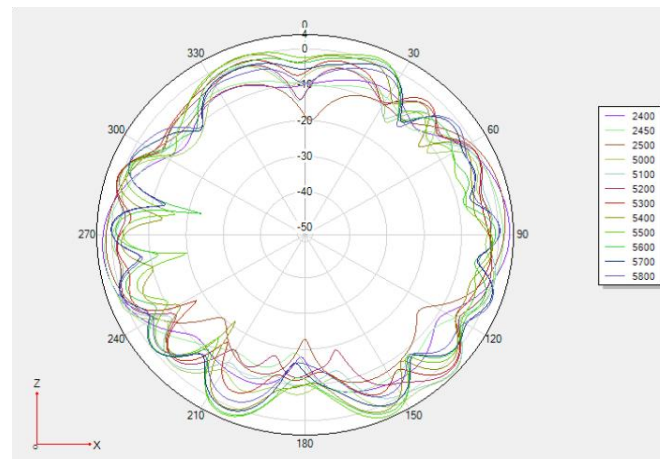
Dimensions (dimensions)	105.5MM±2MM	Antenna color (Chassis Color)	white
link receive utensil type number (Connector)	post	Cable Length	230MM±5MM
Antenna material (Chassis Material)	ABS		
Working temperature (Working Temperature)	-40°C±85°C	Storage temperature (Limit Temperature)	-40°C±85°C

S11(VSWR, Return loss, Smith)- darkroom test data

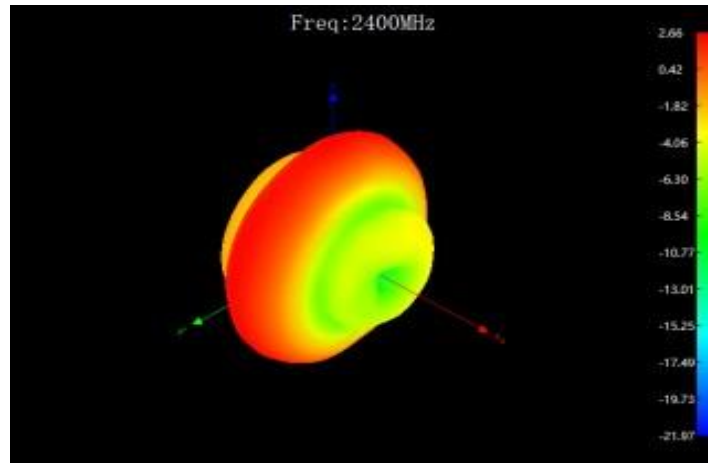
One. Network analyzer report



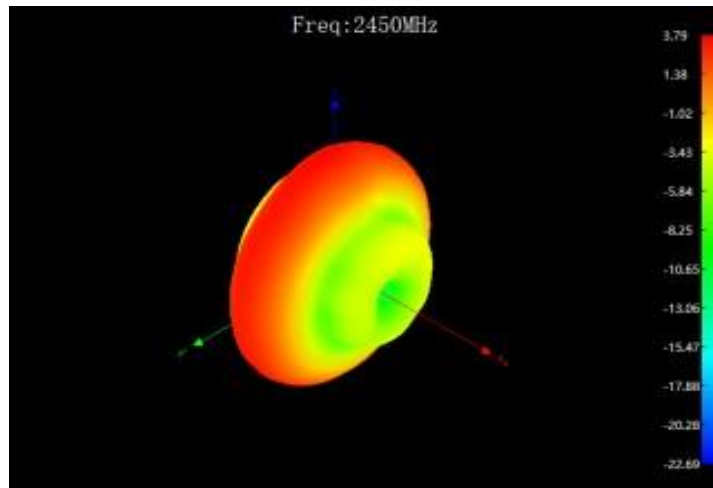
2. 2D pattern of darkroom data



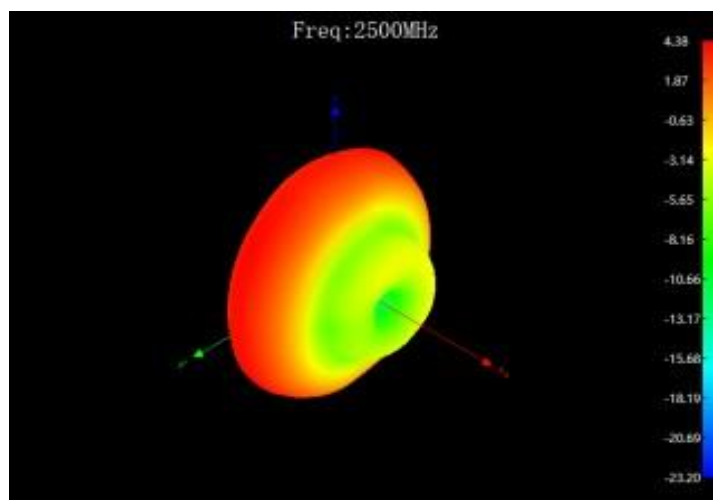
3. 3D pattern of darkroom data



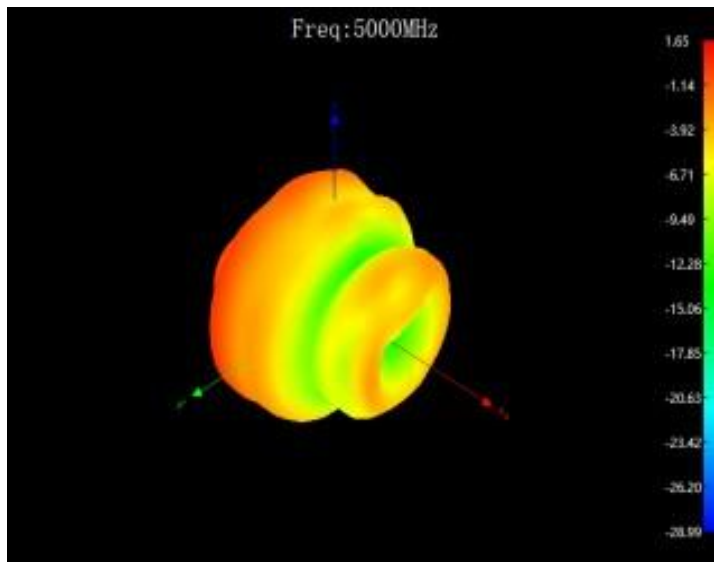
2400MHZ



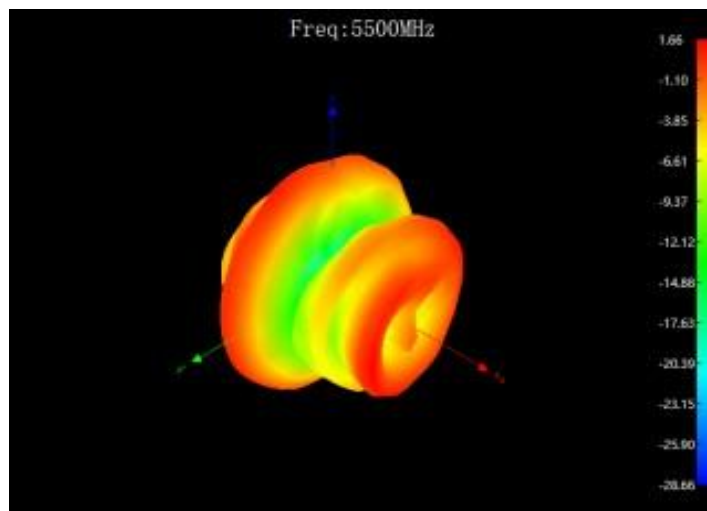
2450MHZ



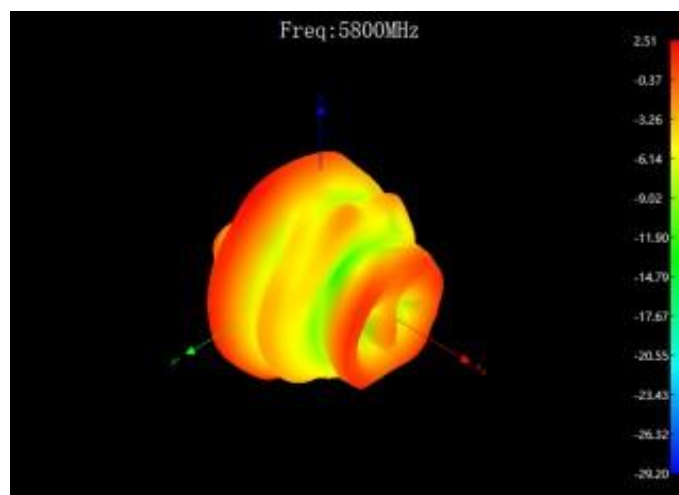
2500MHZ



5000MHZ



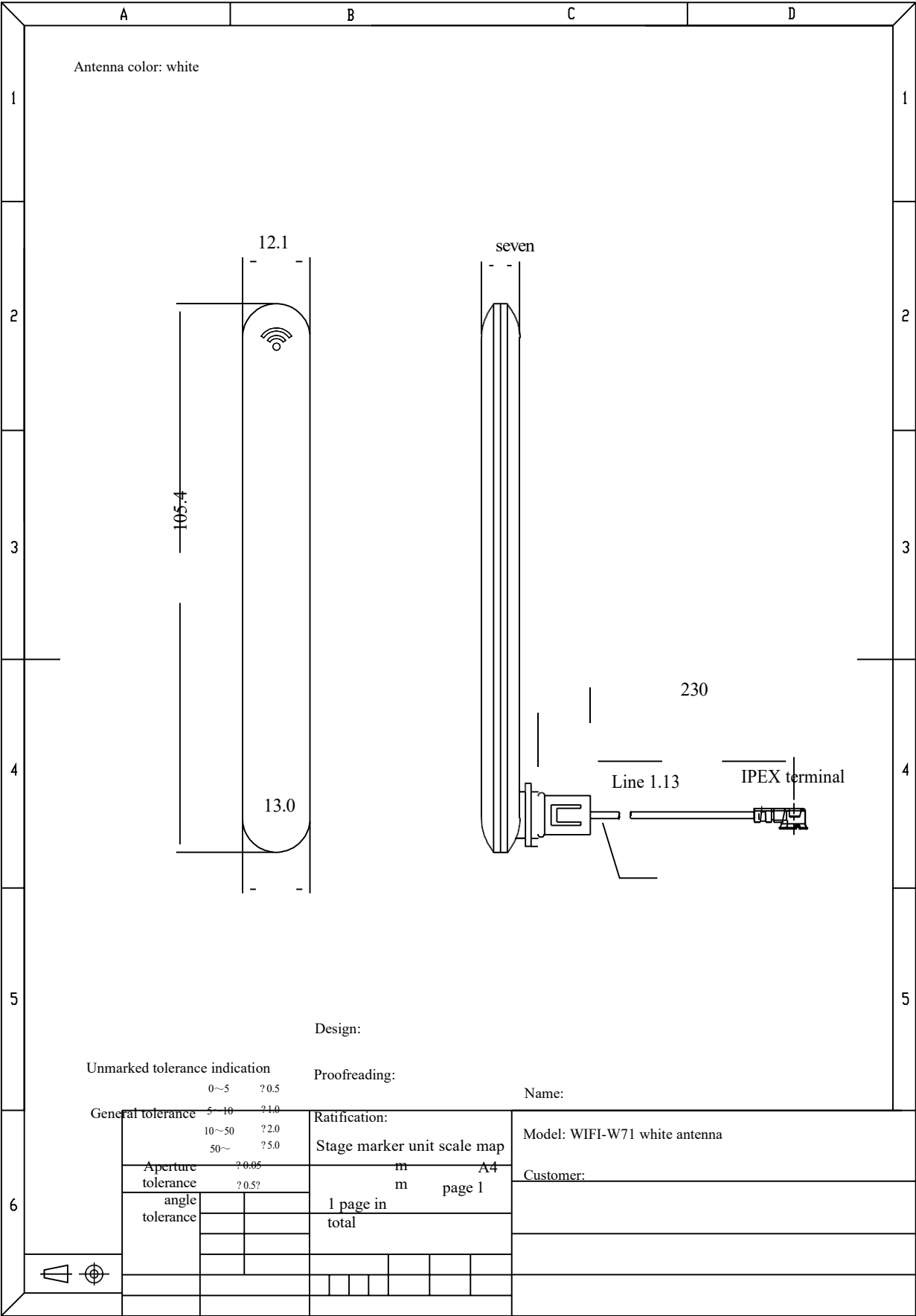
5400MHZ



5800MH
Z

Iv. 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



VI. Environmental Performance Testing

Storage environment	The test temperature, humidity and air pressure are as follows: 1. The temperature is -30°C ~+80°C. 2. The relative humidity is 45%-85% 3. The air pressure is 86kpa-106kpa.	Electrical and mechanical performance is normal.
thermocycling	Carry out five cycles between 70°C and 40°C, and then check the appearance quality under normal conditions for 1-2H.	Dimensions shall meet the requirements and shall meet the requirements. In terms of mechanical and electrical properties
Constant damp-heat resistance test	The relative humidity is 95 3%, and the test temperature is 40°C. After 2 hours' action, the electrical properties of the sample are measured with 5 minutes after it is taken out, and the sample is in normal condition. 1-2H, check the appearance quality.	Dimensions shall meet the requirements and shall meet the requirements. In terms of mechanical and electrical properties
vibration test	Vibration frequency range is 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle times: 30 times.	Electrical and mechanical performance is normal.
drop test	Free fall for 3 times at a height of 1M according to the mutually perpendicular axis directions.	Electrical and mechanical performance is normal.

