



APPROVAL SHEET

承认书

CUSTOMER NAME Customer Name	Shenzhen Abit Technology Co., Ltd.	
CUSTOMER P/N Customer Material No.	10130181536	
PART NAME Name	2.4G black PCB built-in antenna 0.81 black line L = 155MM	
P/ N Material No.	YJC-6N155-B28	
APPROVAL REV. Revision	A0	
DELIVERY DATE Sample delivery date	May 14, 2025	
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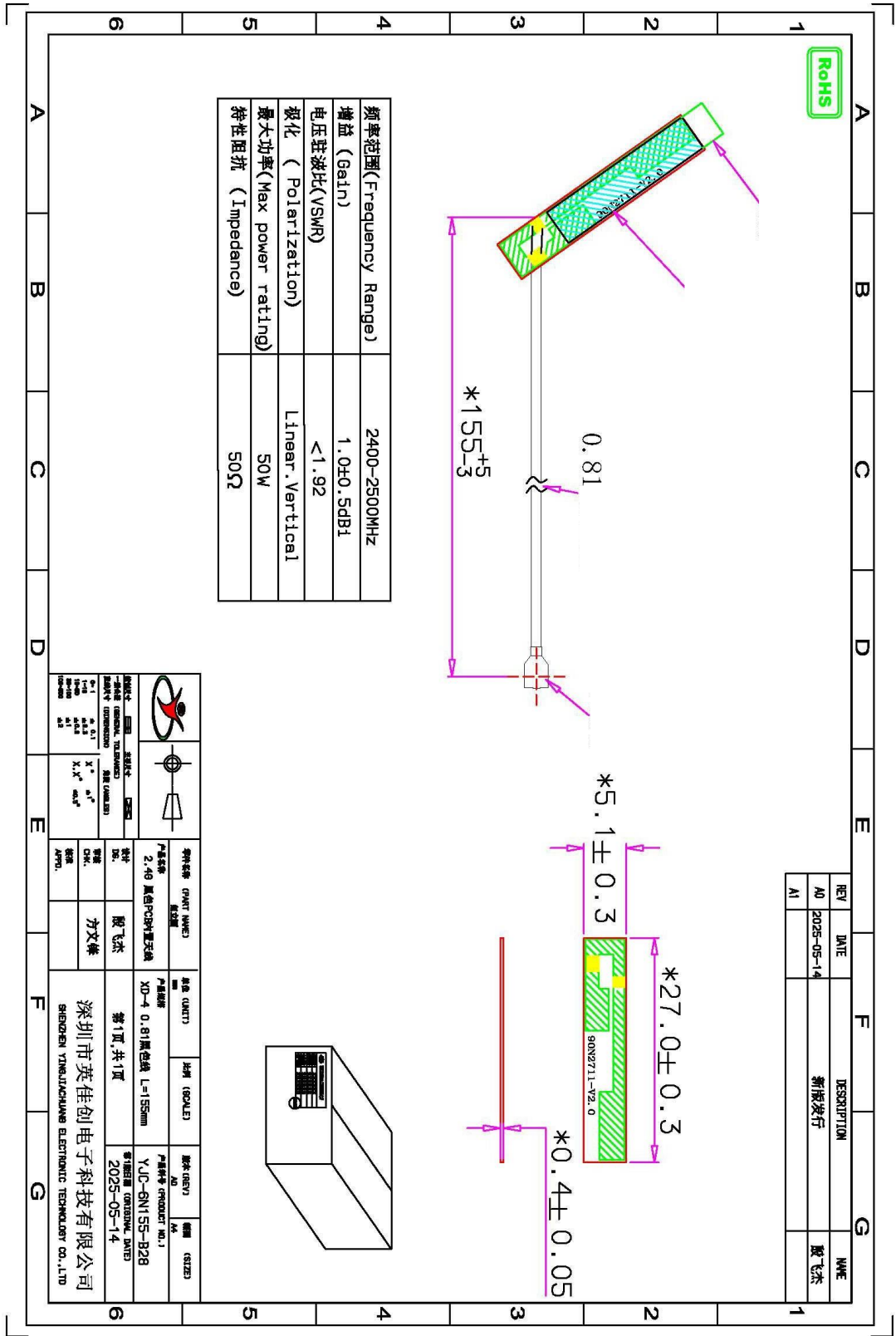


Resume:

Vers ion	Change content and change reason	Date	Issuanc e
A/0	First Edition Release	14 05 2025	



Antenna Plan:





Antenna technical parameters and environmental testing:

Electrical technical parameters			
electrical performance index		Electrical Specifications	
Frequency range	2400-2500MHz	Frequency Range	2400-2500MHz
voltage standing wave ratio	<1.92	VSWR	<1.92
input impedance	50Ω;	Input Impedance	50Ω;
Direction	Omni-directional	Direction	All
Gain	1.0±0.5dBi	Gain	1.0±0.5dBi
Mechanical index		Mechanical Specifications	
Wire color	Black	Wire Color	Black
Interface form	XD-4	Input connector	XD-4
Wire length	155MM	Wire Length	155MM
Working temperature	-20 °C ~ +70 °C	Working Temperature	-20 °C ~ +70 °C
Working humidity	20% to 80%	Working Humidity	20% to 80%

Environmental performance testing:

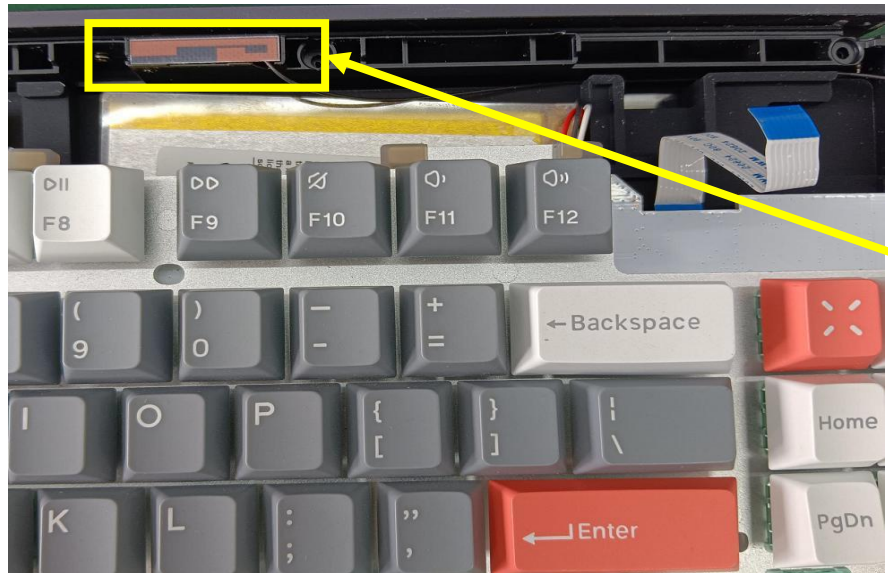
Project	Test conditions	Specifications
Storage environment	The test temperature, humidity and air pressure are as follows: 1. The temperature is -20 °C ~ +70 °C 2. Relative humidity is 45%-85% 3. The air pressure is 86kpa-106kpa	Electrical and mechanical performance is normal
High and low temperature test	5 cycles were performed between 70° C and -20° C, and then 1-2H under normal conditions, and the appearance quality was checked.	The size shall meet the requirements and shall meet the mechanical and electrical performance.
Constant damp heat	Relative humidity 95±3%, test temperature: 40 °C. After continuous action for 2H, the electrical performance shall be measured within 5min after the test article is taken out, and the appearance	The size shall meet the requirements and shall meet the mechanical and



resistance test	quality of the test article shall be checked for 1-2H under normal conditions.	electrical performance.
Vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0 M/S, sweep cycle times: 30 times	Electrical and mechanical performance is normal
Drop test	1M high altitude according to the axis direction perpendicular to each other free fall 3 times	Electrical and mechanical performance is normal

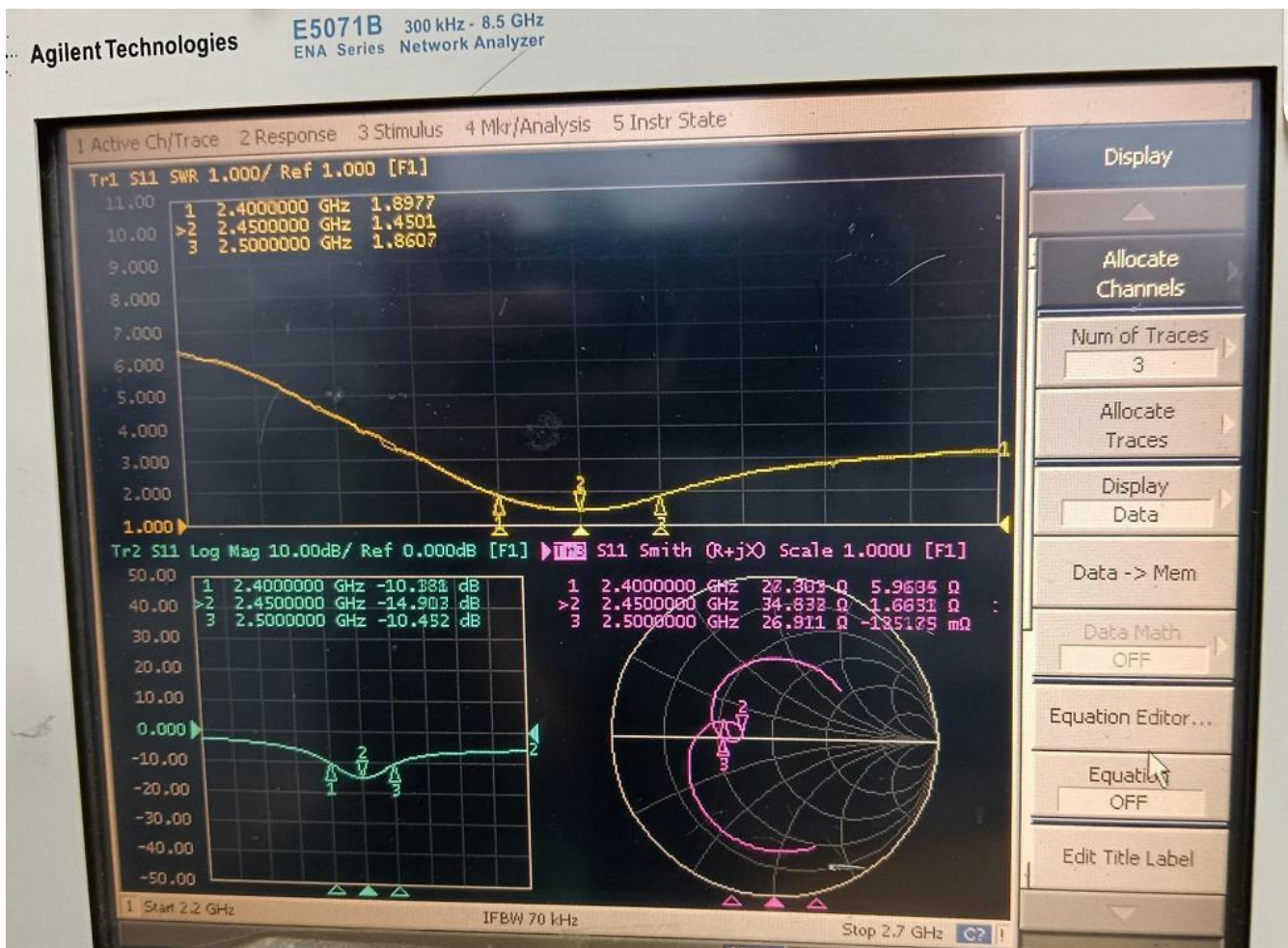


antenna physical map and attached location map



Day
Line
at

antenna performance test chart:

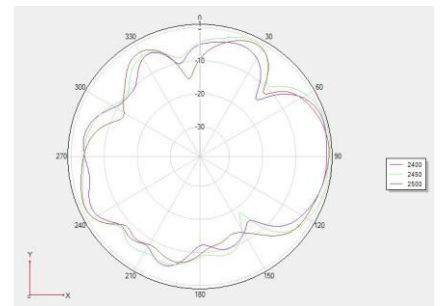
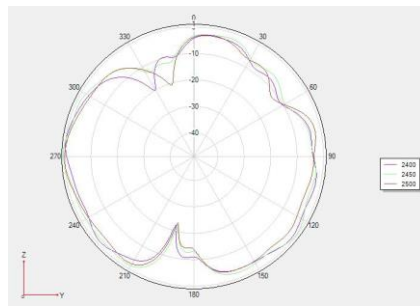
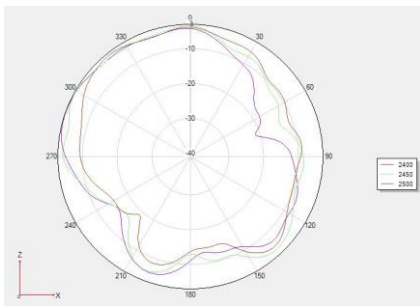




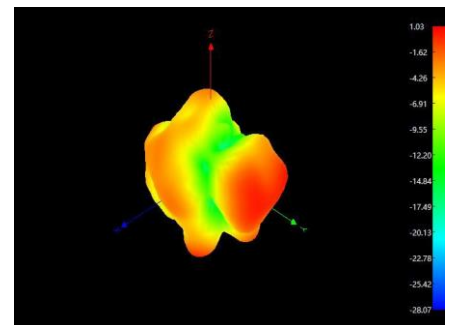
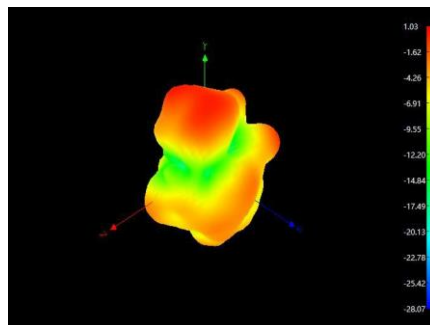
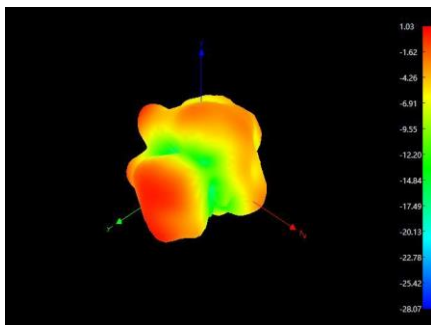
2D, 3D test data (2.4G):

Frequenc y	Efficiency (%)	Gain.(dBi)
2400	38.84	1.03
2410	42.41	1.13
2420	41.06	1.14
2430	40.02	1.06
2440	40.72	1.11
2450	45.41	1.34
2460	41.48	1.14
2470	44.55	1.25
2480	40.49	1.07
2490	40.09	1.04
2500	41.79	1.16

Phi 0 2D Figure: Phi 90 2D Figure Theta 90 2D Figure

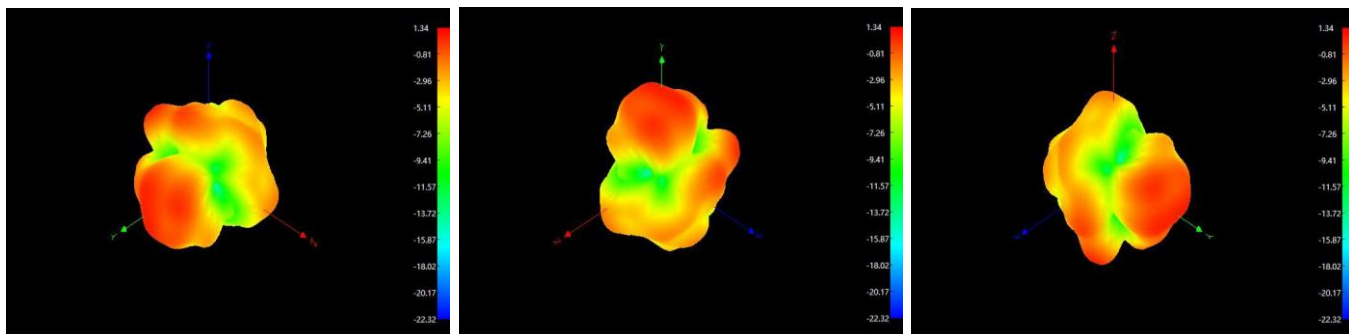


3D 2400:





3D 2450:



3D 2500:

