



SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO.,LTD.

<http://www.szsyjc.com>

APPROVAL SHEET

承认书

CUSTOMER NAME	poor handwriting	
CUSTOMER P/N		
PART NAME	2.4G black FPC built-in antenna	
P/ N	YJC-6N050-B128	
APPROVAL REV.	A0	
DELIVERY DATE	April 11, 2025	
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APPROVED BY	(Xiao Han)	
Customer Approved		
Prepared By	Checked By	Approved By

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Directory

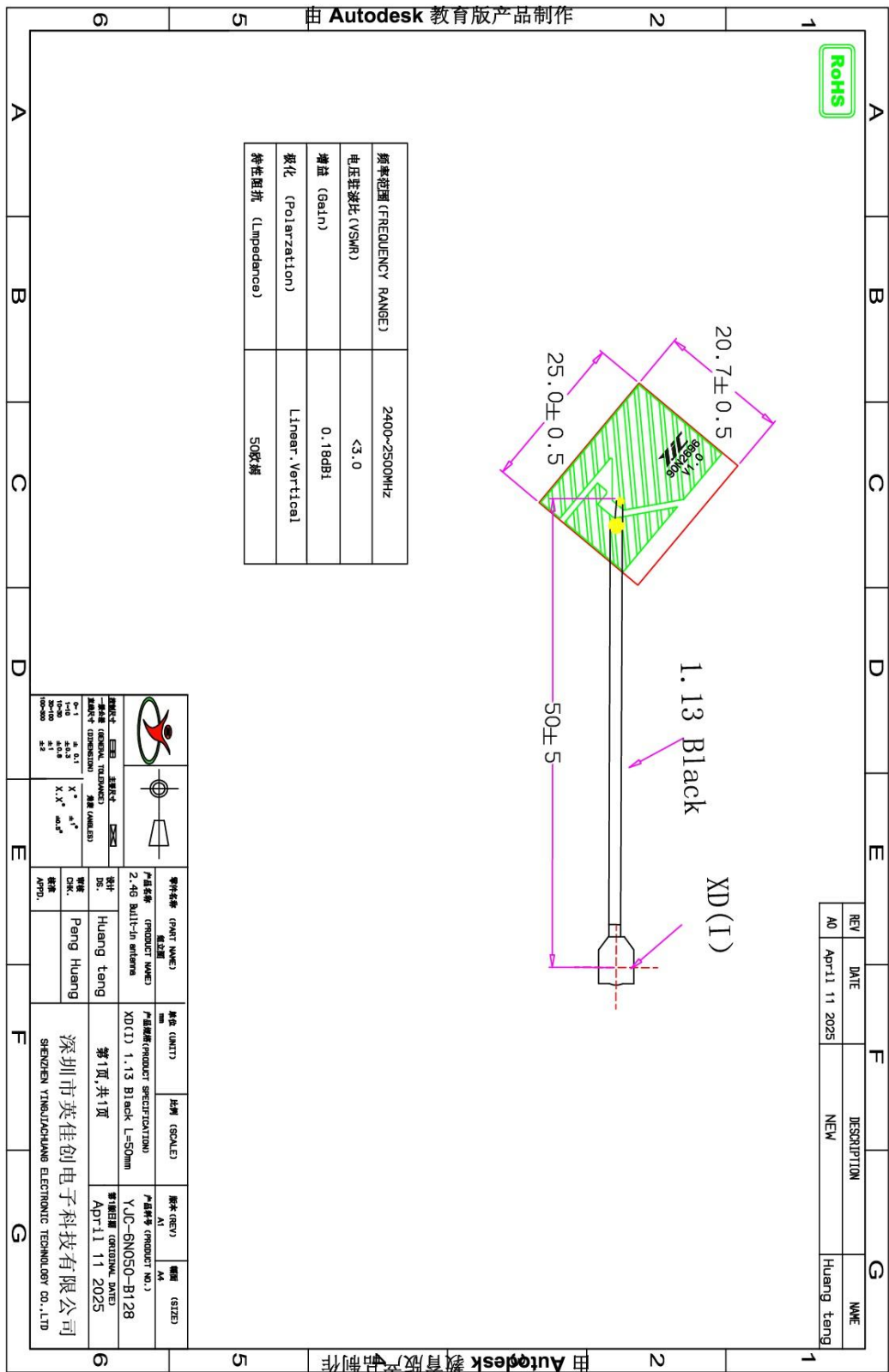
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Revised resume:

version	Change contents and reasons	date	Sell wholesale
A0	NEW	April 11, 2025	

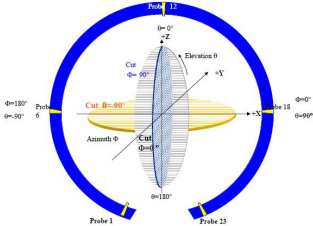
Antenna plan:



Instrumentation:

	Test itens	Test equipment
S Parameter	1. Return Loss 2.VSWR	Network analyzer (Agilent E5071B) (Calibration date:November21,2024-November 20,2025)
Passive test	1. Frequency 2. Gain 3. Radiation Pattern	1.3Dmicrowave darkroom (5m*4m*4m) 2.Network analyzer (Agilent E5071B) (Calibration date:December18,2024-December 17,2025)
Active test	1. TRP 2. TIS	1.3Dmicrowave darkroom (5m*4m*4m) 2.Comprehensive test instrument (CMW500) (Calibration date: December16,2024-December 15,2025)

Passive is to collect DUT spherical near-field data through multi-probe, and then the direction map of DUT is calculated by the near-far-field conversion formula. Finally, the gain and efficiency are calculated by the directionality coefficient on the direction map

Dark room coordinates	test mode
	
CMW500	Agilent E5071B
	

Antenna technical parameters and environmental test:

Electrical technical parameters			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500MHz	Antenna Color	Black
VSWR	<3.0	Working Temperature	-20℃~+70℃
Input Impedance	50 Ω	Working Humidity	20%~80%
Direction	Omnidirectional	Gain	0.18dBi
Interface form	XD-1	Antenna type	dipole

Location diagram of the antenna attachment:



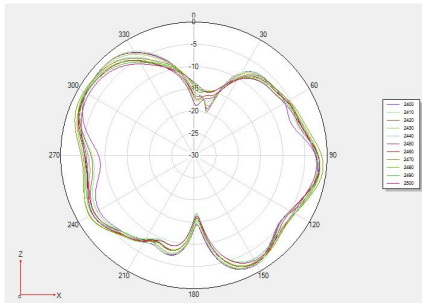
OTA active test data:

Item	Measurement	Standard	Band	Channel	Frequency	Total
1	TRP	WIFI (AP)	WIFI_B (11M)	1	2412	14.92
2	TRP	WIFI (AP)	WIFI_B (11M)	6	2437	15.37
3	TRP	WIFI (AP)	WIFI_B (11M)	11	2462	14.93
4	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	1	2412	-82.31
5	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	6	2437	-85.4
6	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	11	2462	-84.24

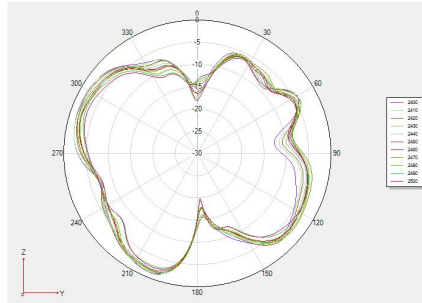
2D,3D test data:

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	40.15	0.18
2410MHz	41.02	-0.07
2420MHz	43.71	0.13
2430MHz	44.67	-0.33
2440MHz	44.03	0.07
2450MHz	43.50	-0.59
2460MHz	45.10	-0.28
2470MHz	44.34	0.18
2480MHz	45.19	-0.09
2490MHz	43.60	-0.28
2500MHz	43.71	-0.50

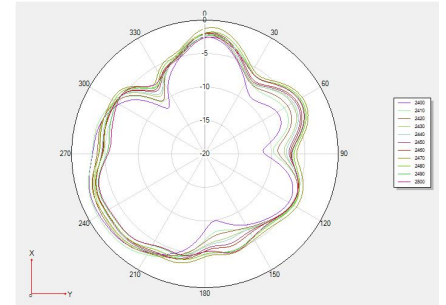
Phi 0 2D



Phi 90 2D

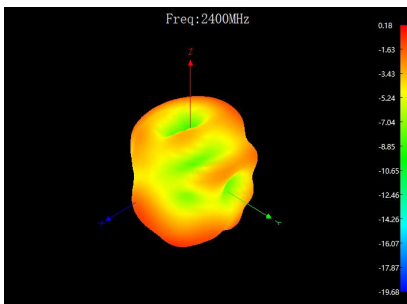


Theta 90 2D

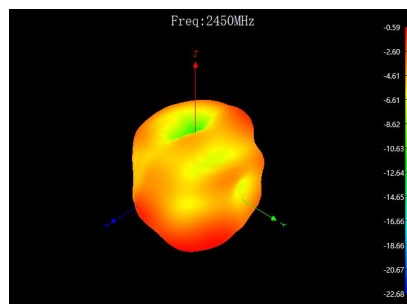


3D test data:

3D 2400MHz



3D 2450MHz



3D2500MHz

