



Antenna debugging report

Customer: Duoke

Project: DK122

Structure: Xiao Xiang-13316888409

RF: Long Yaobin 15874137313

Date: March 21, 2026

Address: Xinbinuo Communication Co., Ltd.,
3rd Floor, Building 25, Feipeng Industrial
Park, No. 171 Ping'an Avenue, Longgang
District, Shenzhen City, Guangdong Province



Antenna debugging report

Report type:

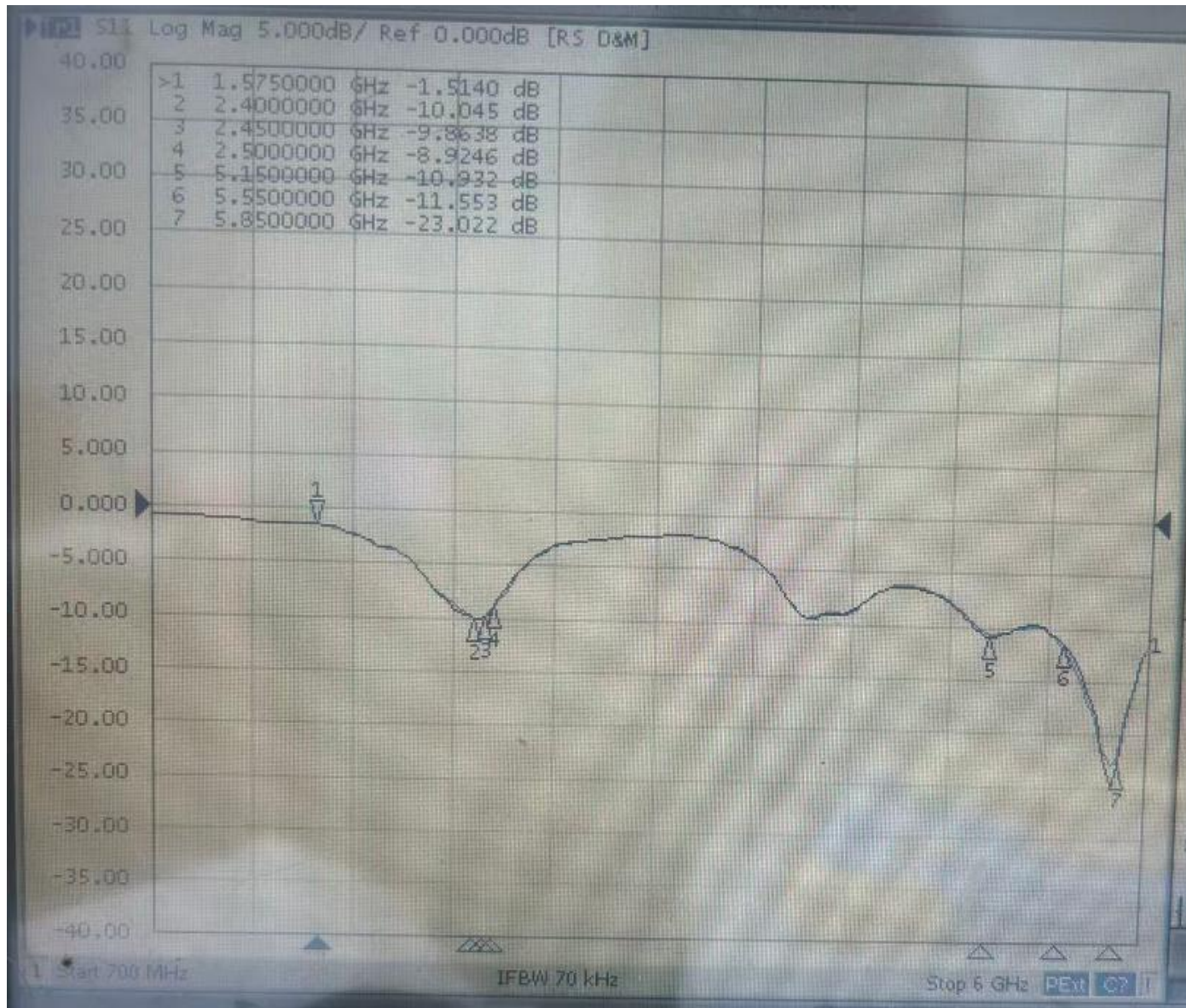
Version number: V4.0

Machine status: DVT trial production machine

Debugging frequency band:

802.11a/b/g/n/ac/ax

Antenna LOG MAG:



Antenna SWR:

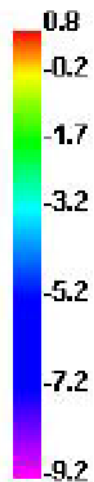
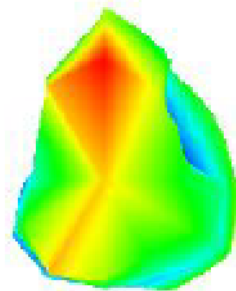




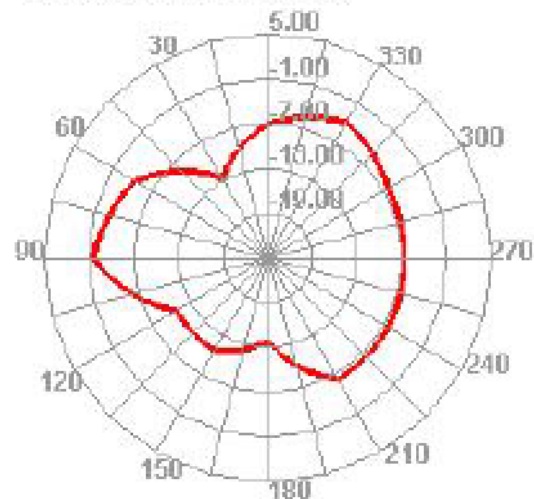
Antenna gain:

Frequency (MHZ)	Peak Gain(dBi)
WIFI 2.4G/BT	0.8
WIFI 5.8G	1.2

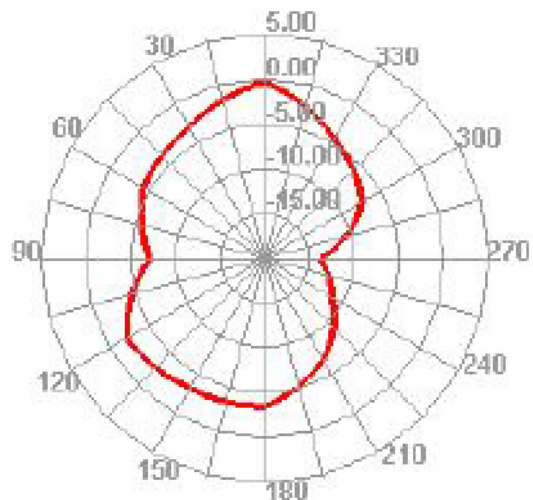
2400.000MHz



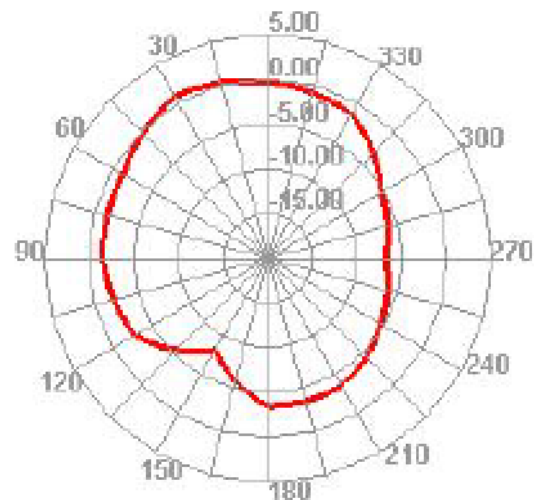
2400.000MHz H



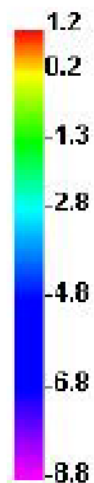
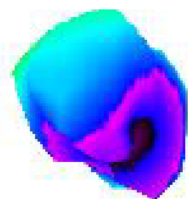
2400.000MHz E1



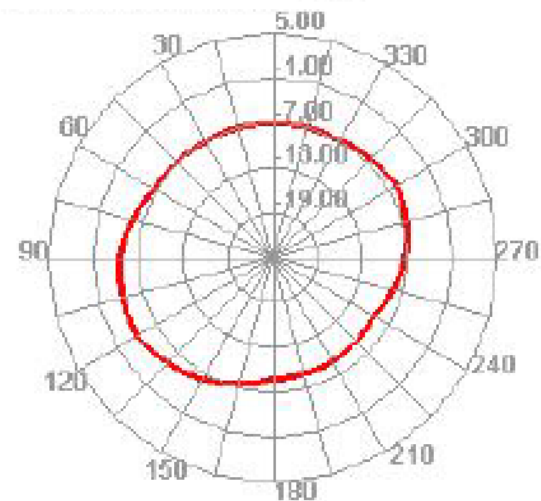
2400.000MHz E2



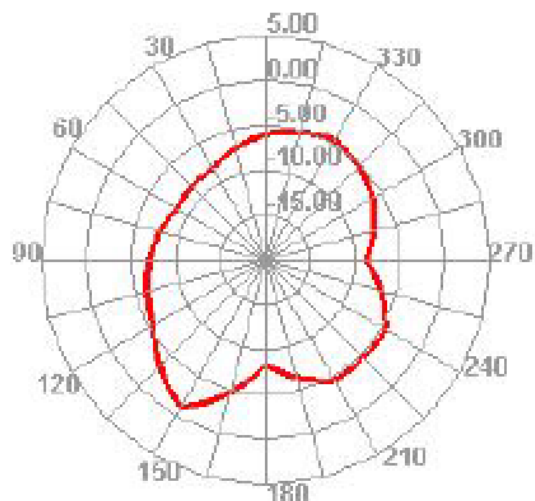
5100.000MHz



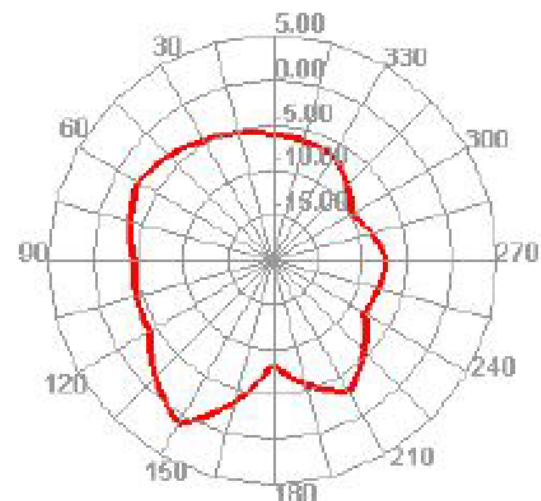
5100.000MHz H



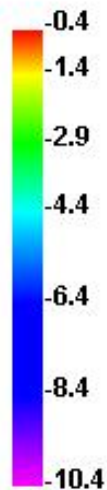
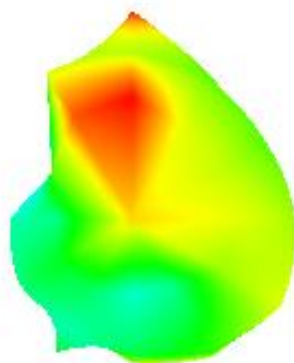
5100.000MHz E1



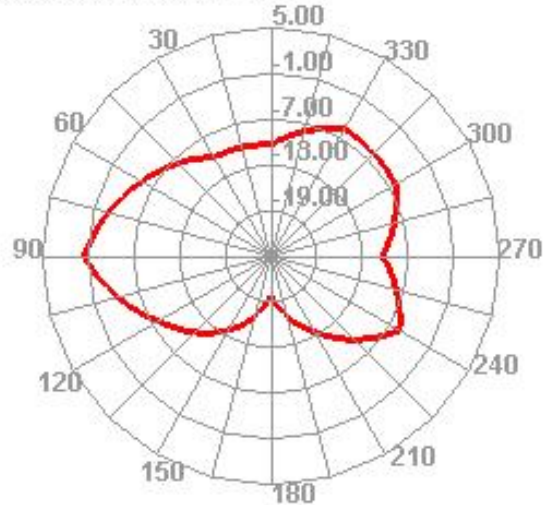
5100.000MHz E2



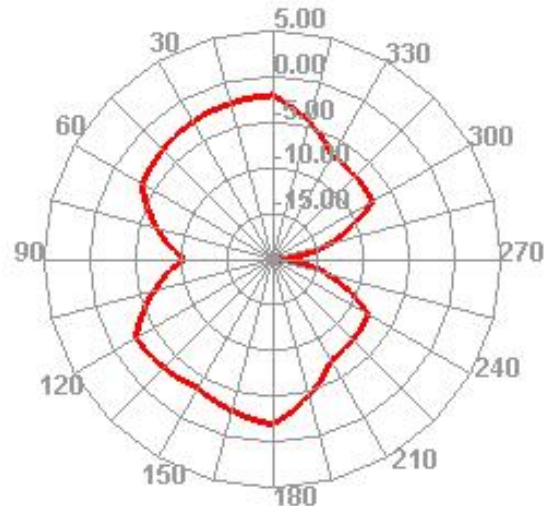
5300.000MHz



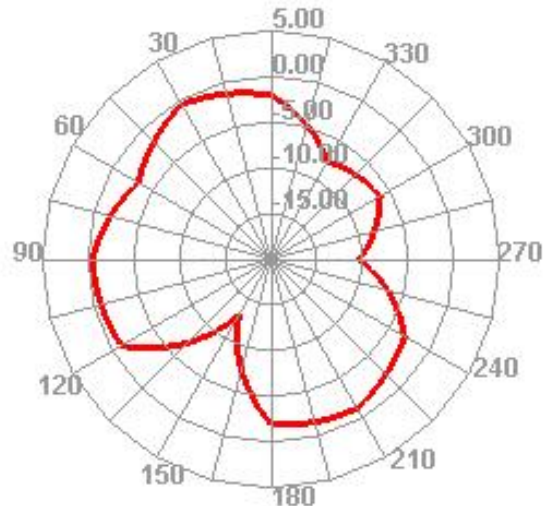
5300.000MHz H



5300.000MHz E1



5300.000MHz E2



WIFI OTA				
2.4G	Band	Channel	TRP	TIS
	b (11M)	1	13.9	
		6	13.5	
		13	13.7	-85.5
	g (54M)	1	13.3	
		6	13.2	
		13	13.5	-72.1
	n (MCS7)	1	13.8	
		6	13.5	
		13	13.4	-69.5



Antenna test data

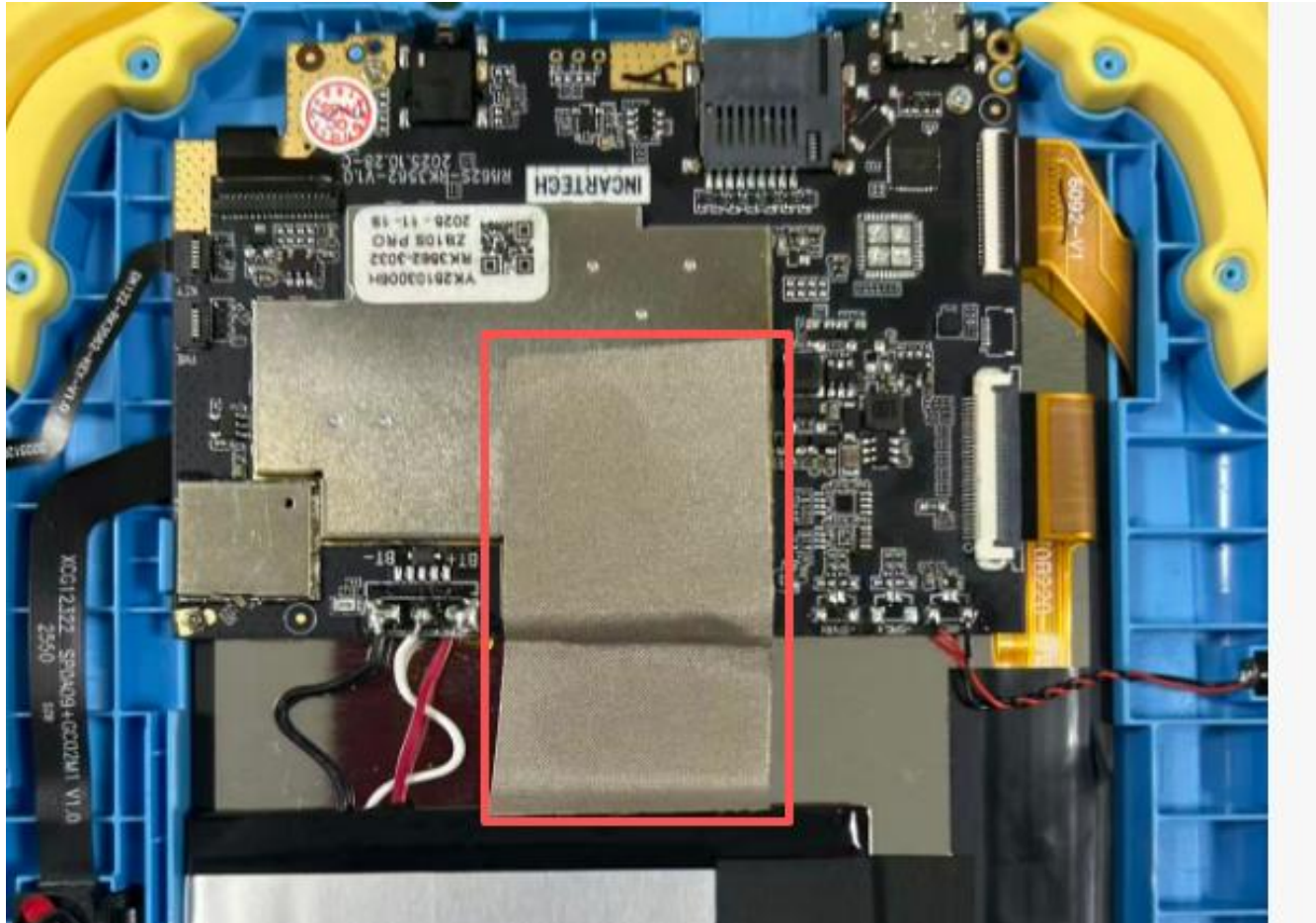
WIFI OTA				
5G	Band	Channel	TRP	TIS
	a (54M)	36	14.5	
		149	13.9	
		165	14.1	-72.6
	n (MCS7)	36	13.8	
		149	13.4	
		165	13.5	-69.8
	ac (MCS8)	36	13.7	
		149	13.3	
		165	13.5	-66.6
	ax (MCS8)	36	13.5	
		149	13.4	
		165	13.3	-66.4

As shown in the red box in the figure: attach a conductive sponge of sufficient height to the exposed copper on the back of the motherboard and fully ground it to the metal area of the shield.

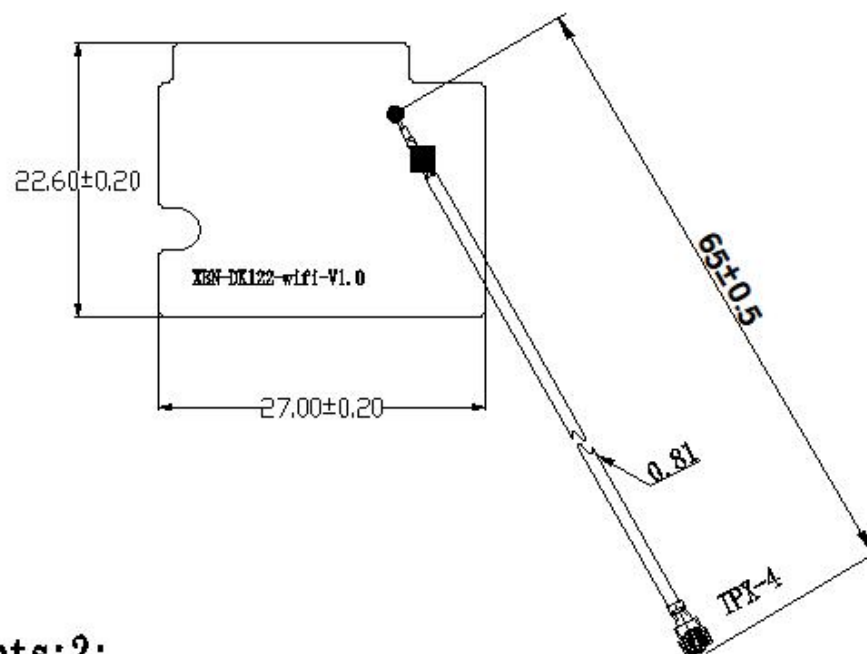


Environmental treatment

As shown in the figure: the large strip of conductive fabric above the motherboard shield extends to the metal area of the screen to ensure proper grounding and prevent the motherboard from warping.



REVISION HISTORY				
REV	DESCRIPTION	AUTH	DATE	APPROVED



Technical Requirements:2:
Dimensions not specified shall refer to the CAD drawings, with tolerance controlled within +0.50/-0.

TOLERANCE			SIGNATURE	DATE	Shenzhen Xinbinuo Communication Technology Co., Ltd. PART NAME: 122-ANT
LINEAR	ANGLE	DESIGNED			
>10.0	± 0.13	± 0.5°	STANDARDIZED		