

Antenna Test Report

Customer: Gongxin	Project Model: G24	Date: May 20, 2025
Debugging version: V1.0	RF: Peng Biao	Structure: Qiao Kaige
Debugging: BT		

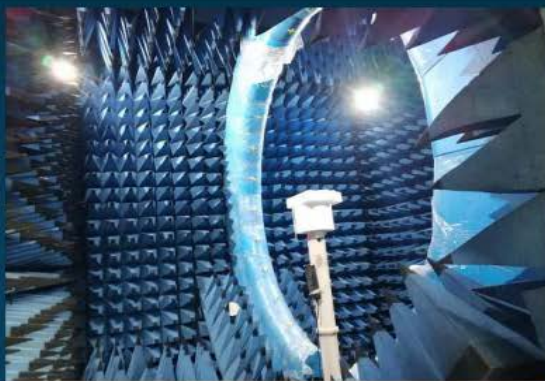
catalogue

1	test equipment
2	Debugging version record
3	matching circuit
4	Motherboard conducts data
5	Active testing
6	GPS/WIFI/BT testing
7	environmental treatment
8	Summary Explanation

1. Testing

Test equipment

SG24



GTS



Agilent 8960



CMW 500



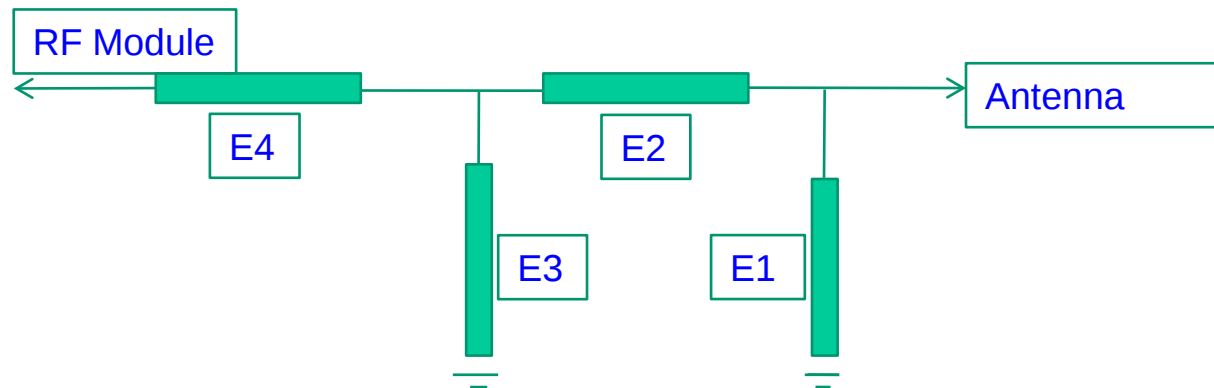
Agilent E5071B

Test system		Test environment	Active testing	Passive testing
SG24 GTS		temperature: $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$	BT/WIFI/GPS	600MHZ—6G
		humidity: $50\% \pm 15\%$		

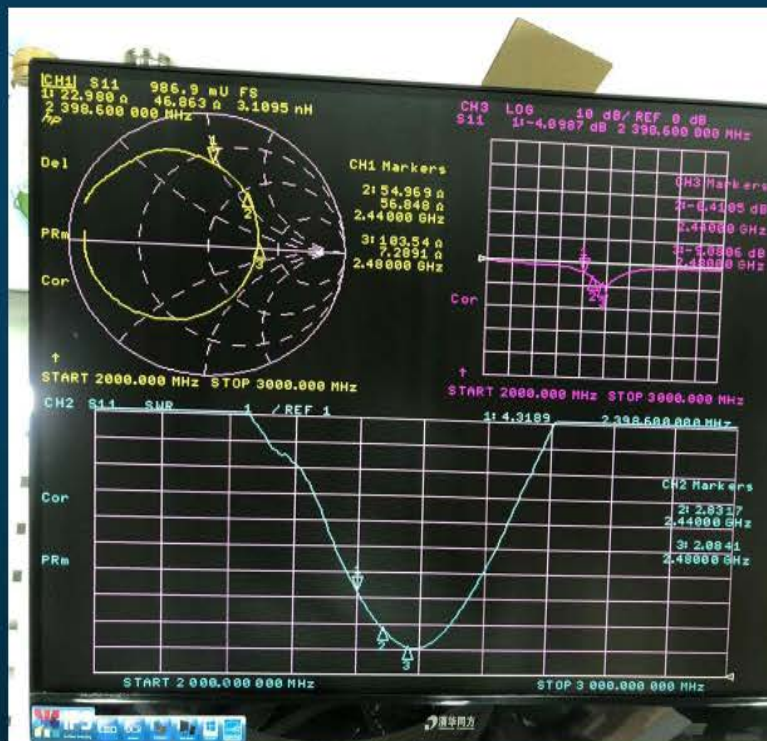
2. Debugging version record

version	date	Overview
V1	12.3	Wire sample data
V2		
V3		
V4		
V5		
V6		

3. Matching circuit



Match modified: No

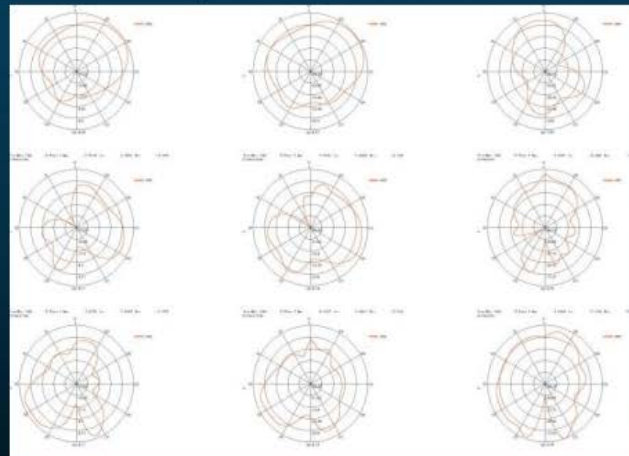
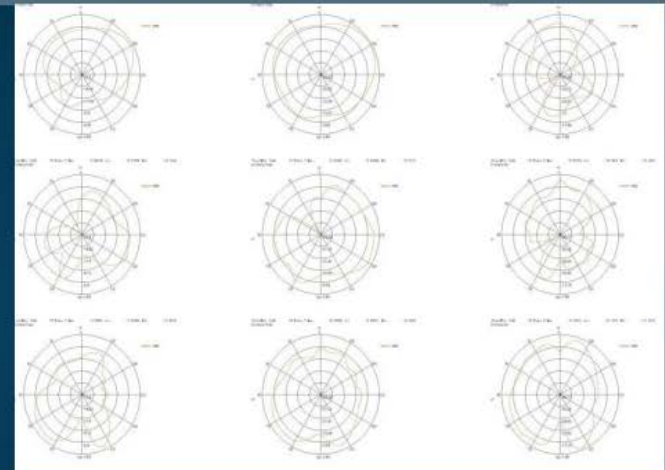
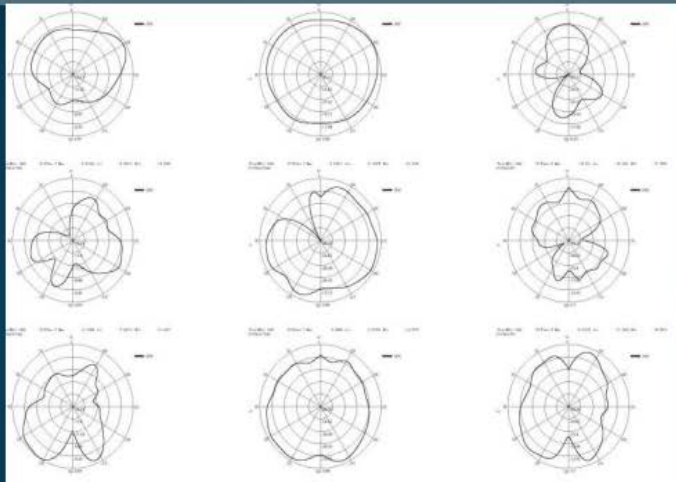


GAIN & Efficiency

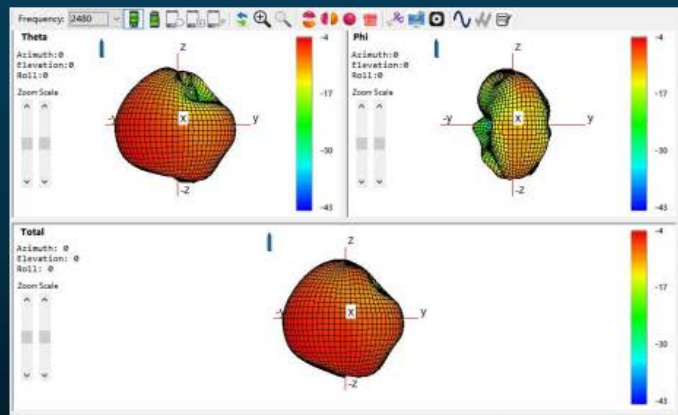
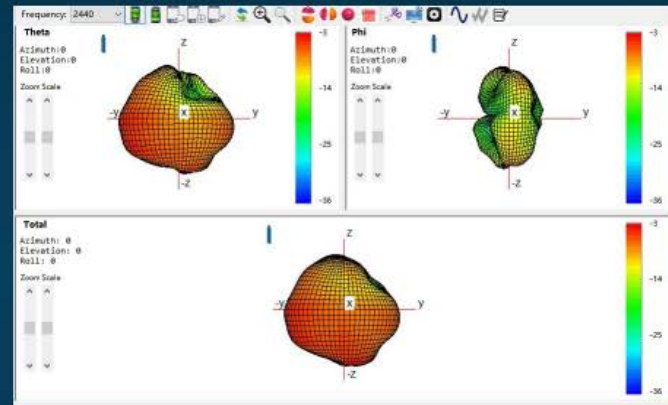
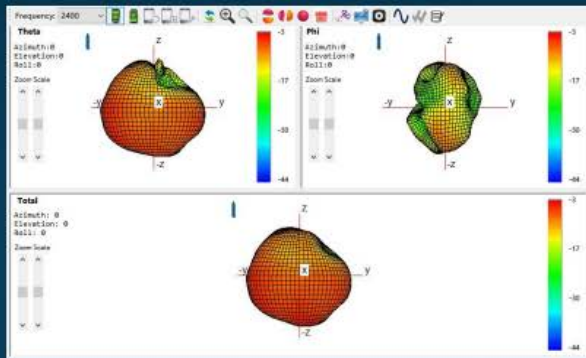
Frequency (MHz)	Gain (dB)	Efficiency (%)
2400	-2.67	10.66
2410	-2.41	10.88
2420	-2.23	11.2
2430	-2.17	11.24
2440	-1.85	11.61
2450	-1.63	12.28
2460	-1.37	12.69
2470	-1.13	13.39
2480	-1.1	13.87
2490	-1	14.15
2500	-1.15	14.11



2D Radiation Pattern



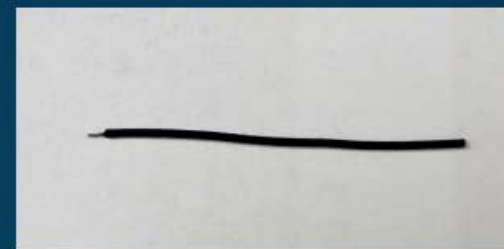
3D Radiation Pattern



①

length: 30mm

Diameter 0.65mm



12. Summary Explanation

One Please pay attention to whether the matching in the report has been changed and whether the environmental treatment is feasible; This will directly affect the antenna performance. If you have any objections, please contact our company in a timely manner;

II If your company's machines have changed materials, updated software, or undergone environmental processing changes, please provide the latest status of the machines to our company for verification in a timely manner;

III If your company's machine needs to be sent for third-party verification or inspection, it is best to provide a testing machine to our company for testing and verification before sending it for testing (because consistency in motherboard, environmental treatment, antenna assembly, etc. can affect antenna performance deviation)