

Antenna matching test report

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2026/3/3



Catalogue

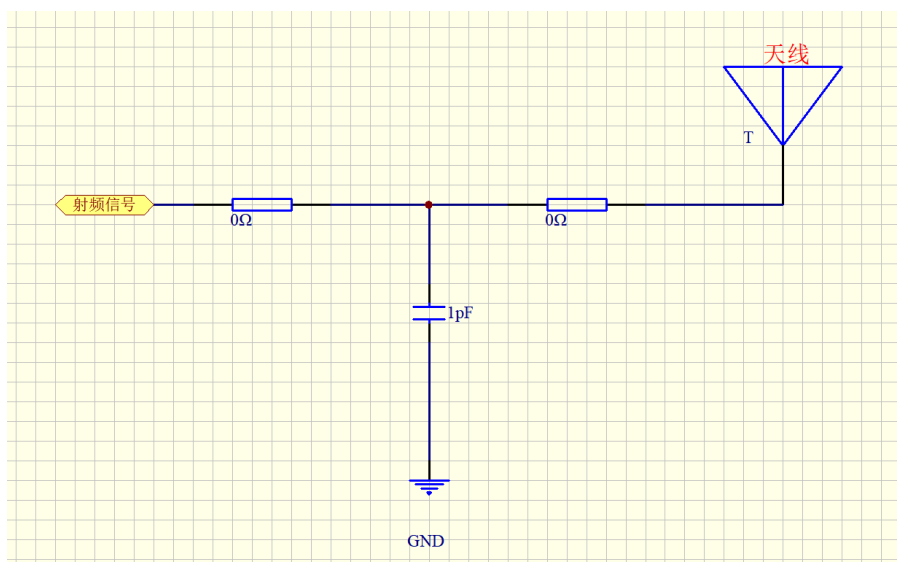
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CA-A03 2.4G Antenna



I Matching Debug Data

The Principle Diagram of Antenna Matching After Debugging

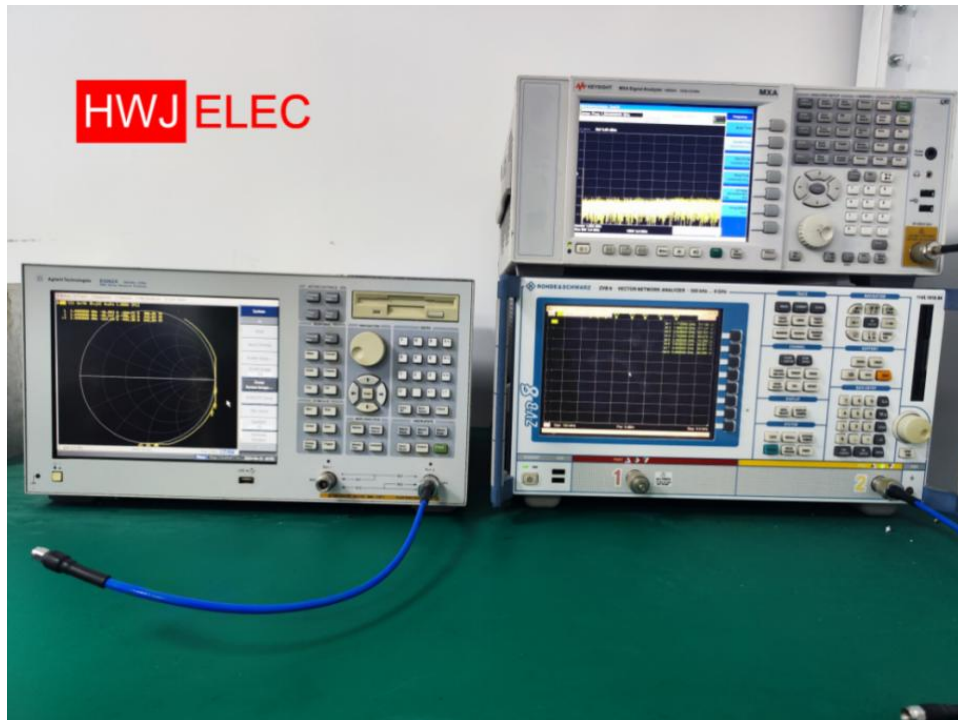


Note: The peripheral component values specified in the RF chip reference design must be used according to the manufacturer's reference design. The antenna matching components mentioned above are independent and cannot be substituted for each other.

Device model

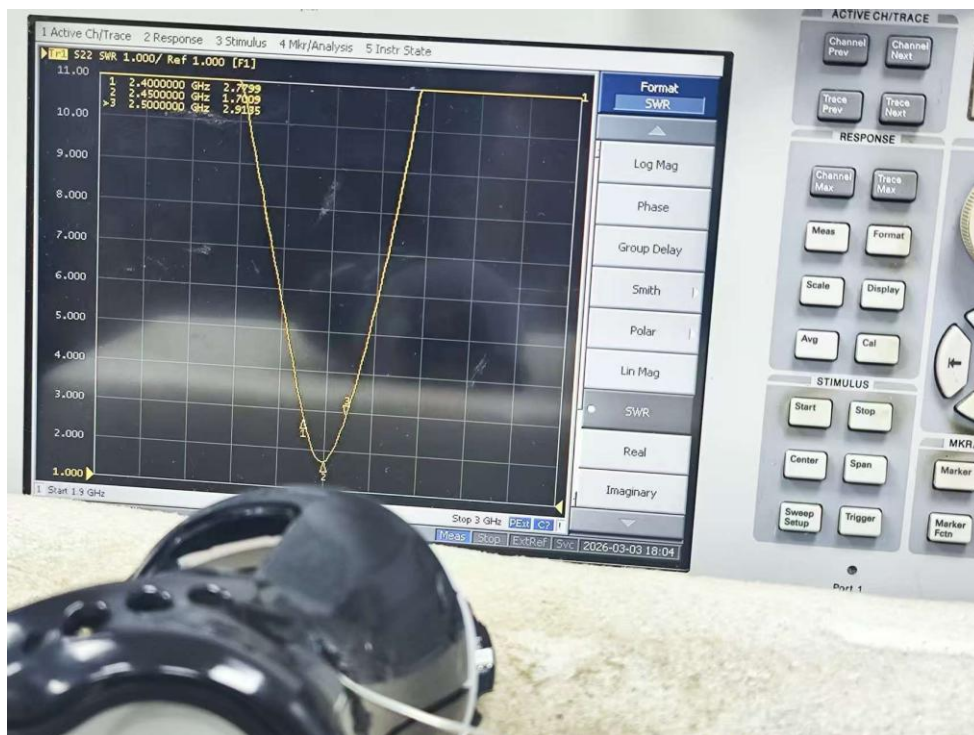
1pF	0402CG1ROC500NT	FH (elegance and talent)
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II S Parameter Testing

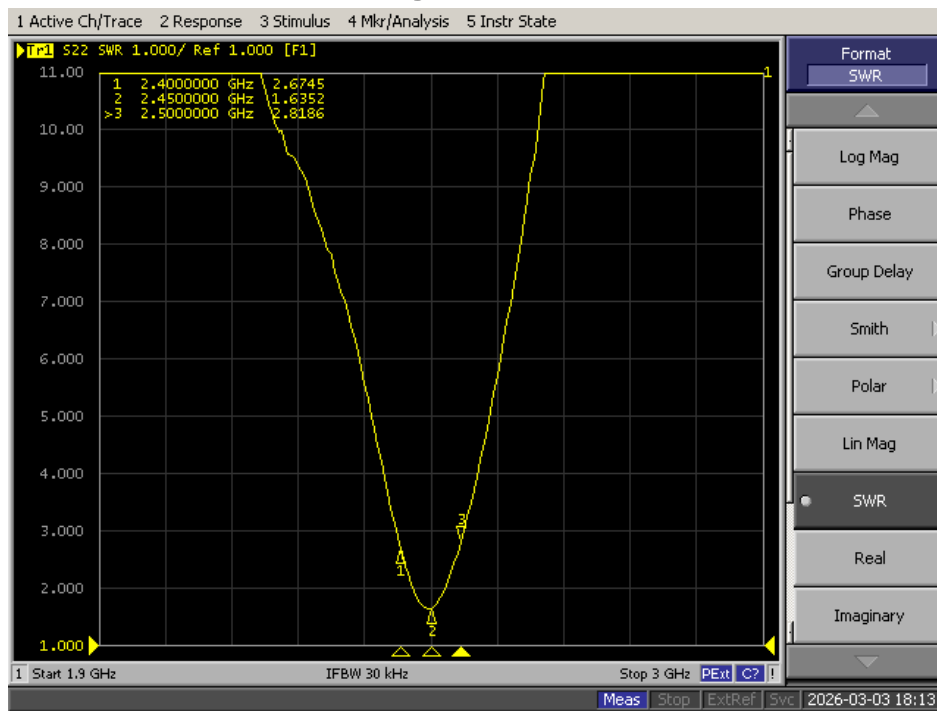


Model: E5062A, ZVB8, N9020A

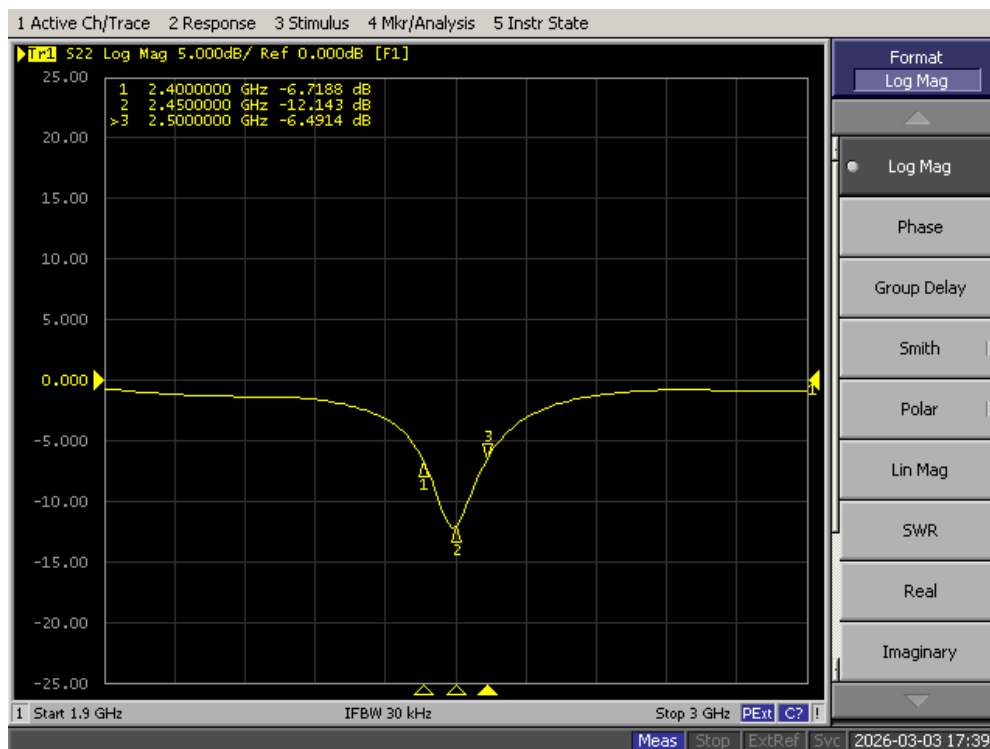
Complete Machine Test Environment



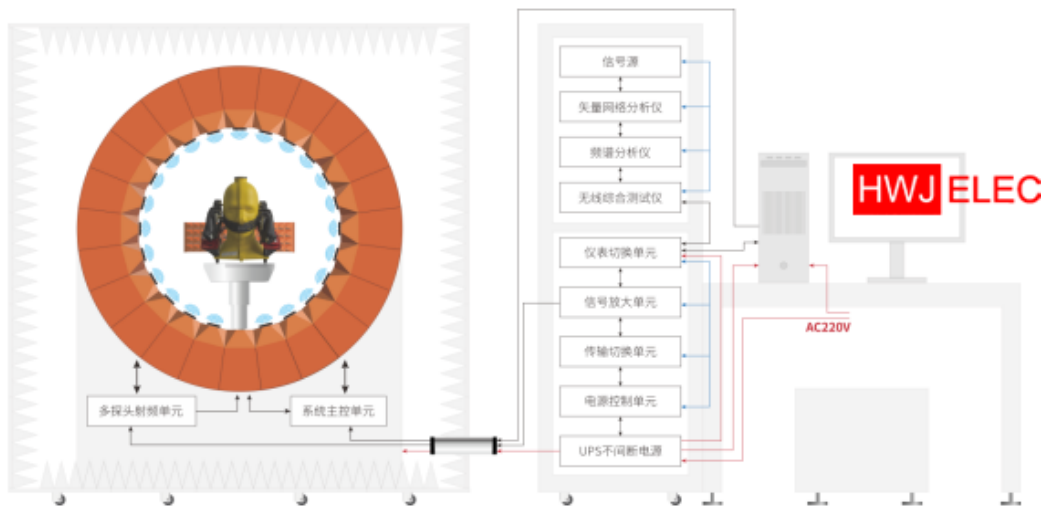
Antenna Standing Wave Ratio



Return Loss



III 3D Microwave Anechoic Chamber Test

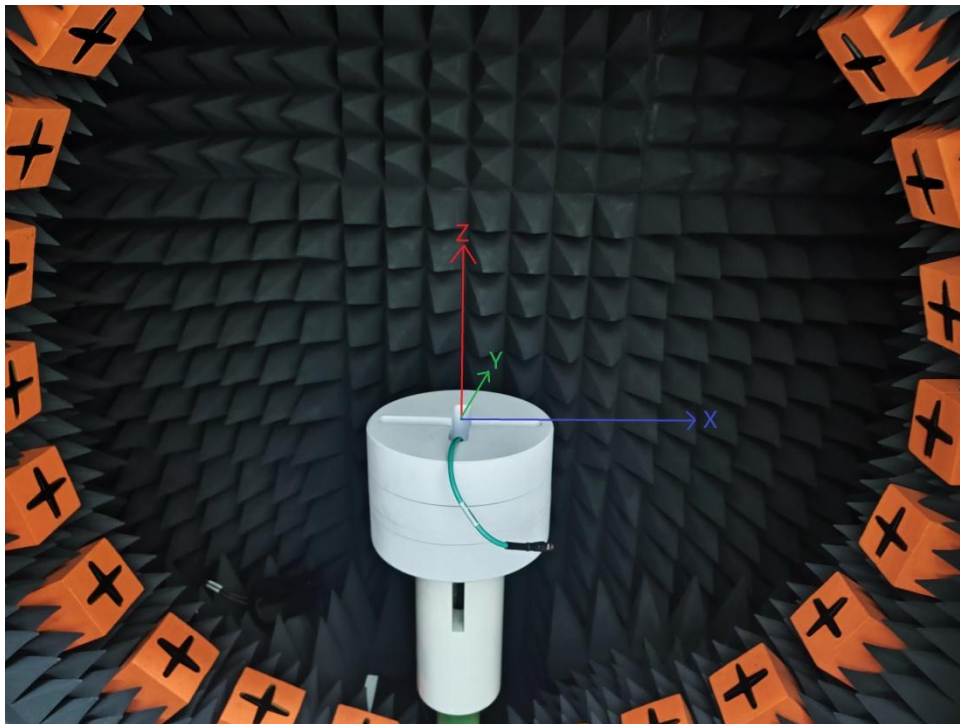


Device models: ATS-200, E5071C, CMW50

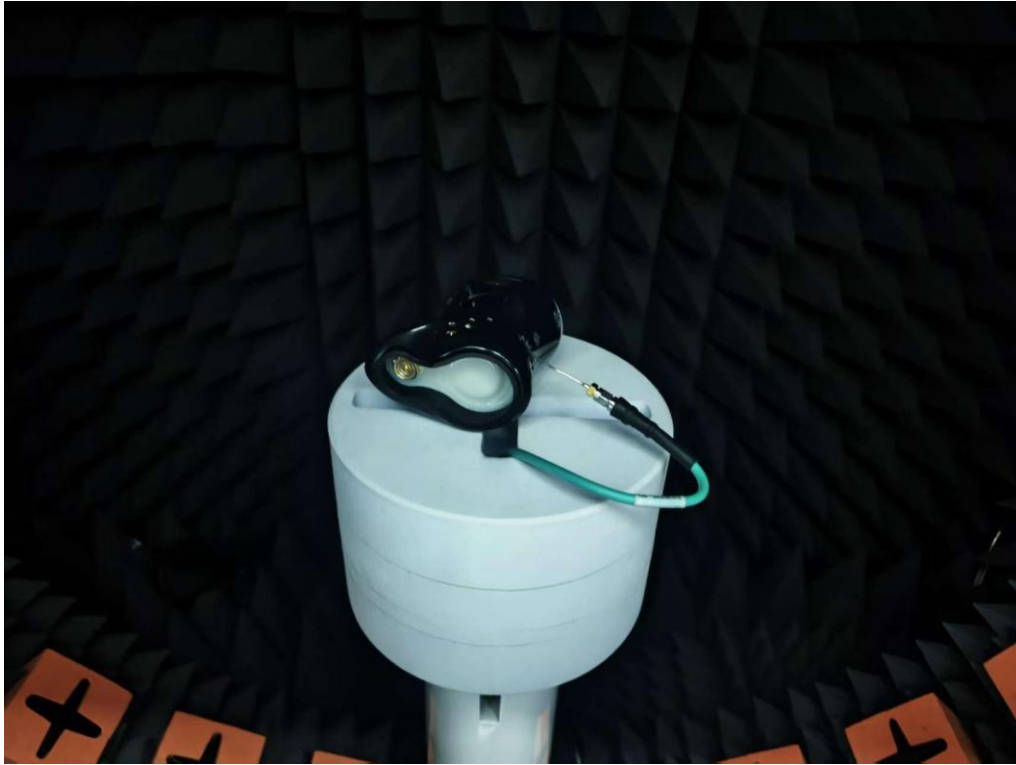
Gain and Efficiency Table

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	-2.05	21.18
2410	-2.11	21.58
2420	-2.34	21.93
2430	-2.43	20.99
2440	-2.09	23.12
2450	-1.98	24.77
2460	-2.14	23.93
2470	-1.89	24.21
2480	-1.57	24.1
2490	-2.56	21.13
2500	-3.39	18.54

Darkroom Orientation Diagram



Product Darkroom Test Environment Diagram



3D Directional Chart

2450MHz

