



Shenzhen Yingfeng Antenna Technology Co., Ltd.

FM221 Test Report

Client	Fanshengda
Product	
Engineer	Mr.Liu
Telephone	18118726256
Postbox	lyg@yingfengtianxian.com
Date	2026.9.15
Editor	ZSimon



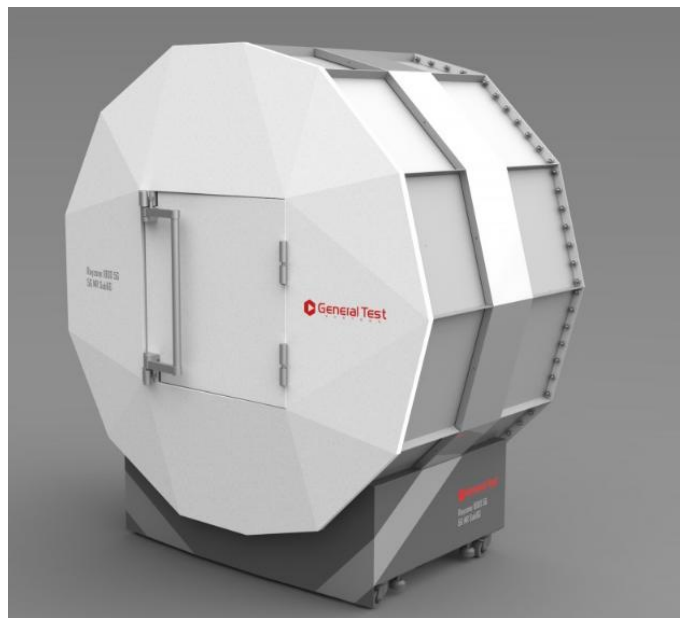
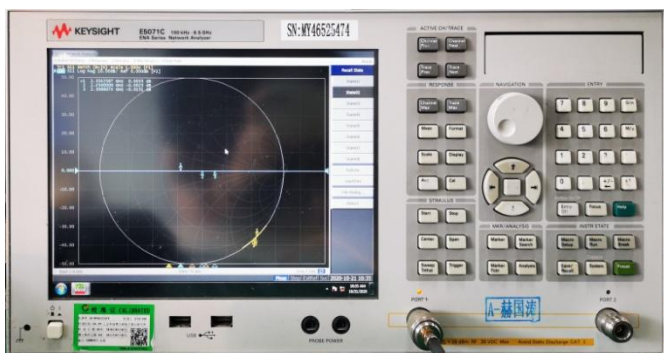
Table of Contents

- testing facility
- Prototype appearance
- Matching Parameters
- Network-based antenna S-parameter debugging
- Whole-system free-field passive data
- Full-system free-field passive field configuration



Test Condition

- 1. S-parameter measurement
- 2. Equipment: Network analyzer (Agilent E5062A), microwave anechoic chamber, MT 8852B
- 3. Parameters: Impedance, Return Loss, VSWR, Efficiency, Gain, Radiation Pattern, Sensitivity, Power, Frequency Deviation – Active Data TRP TIS





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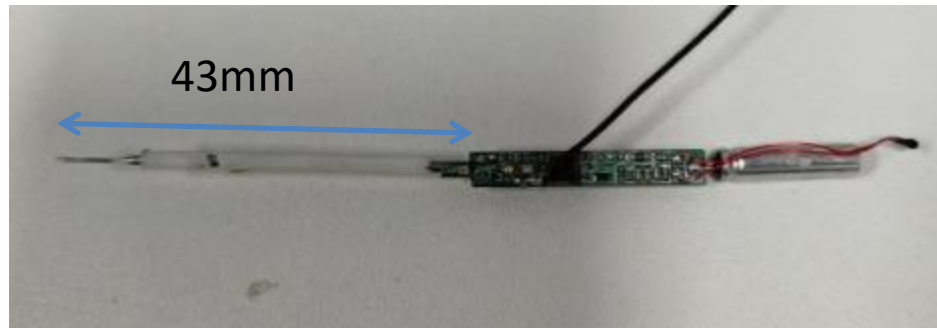
Prototype Appearance





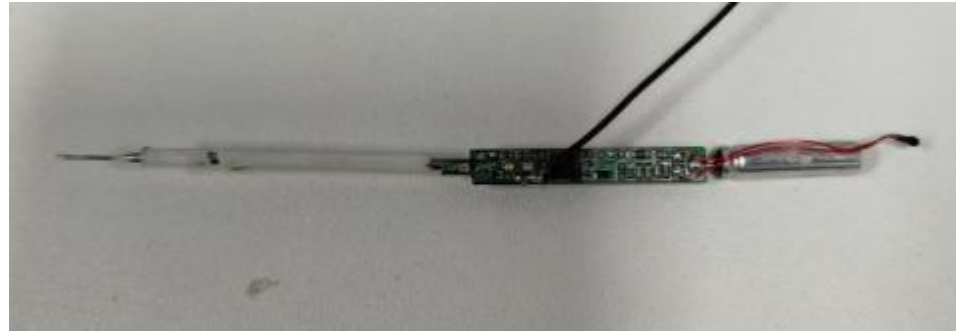
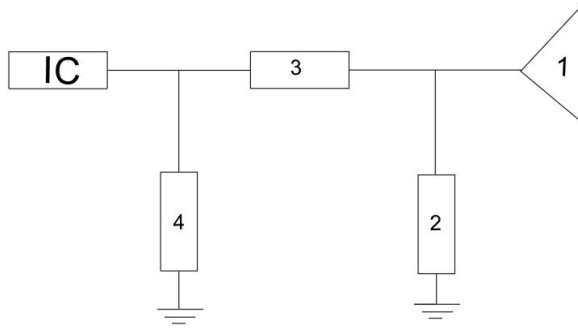
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Antenna Size Diagram





Matching Parameters



Number	Model	Specifications	Manufacturer	P / N	Common difference	
1	Wire Antenna					
2	NC					
3	Resistance	0 Ω /0402				
4	NC					



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Network-Based Antenna S-Parameter Measurement – S3





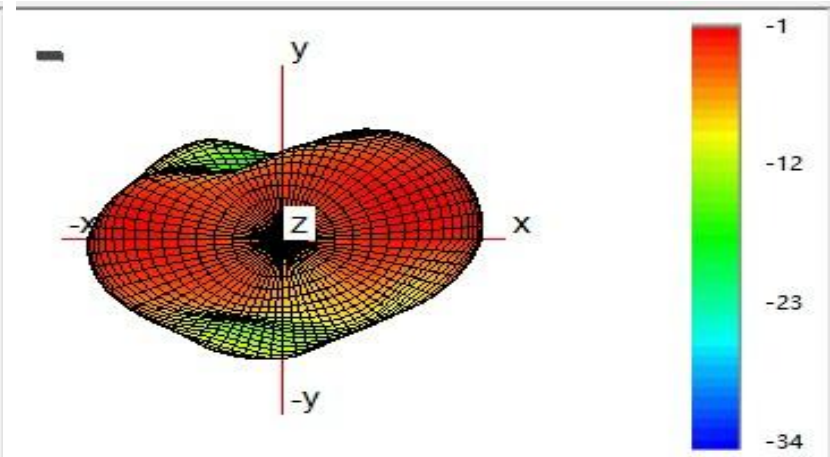
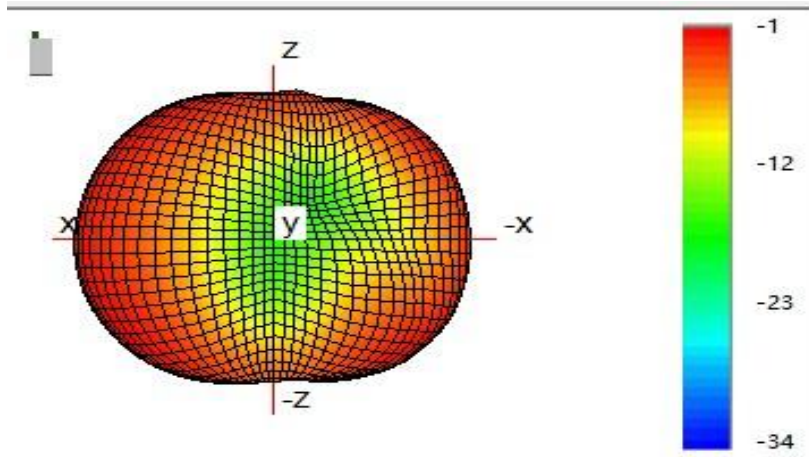
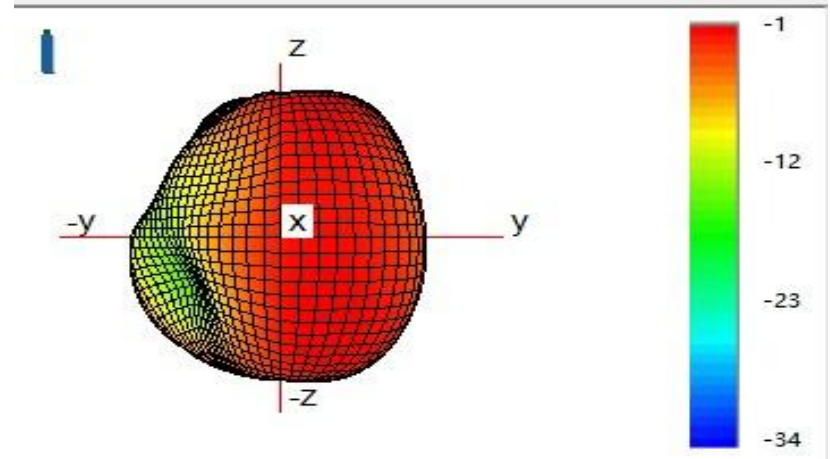
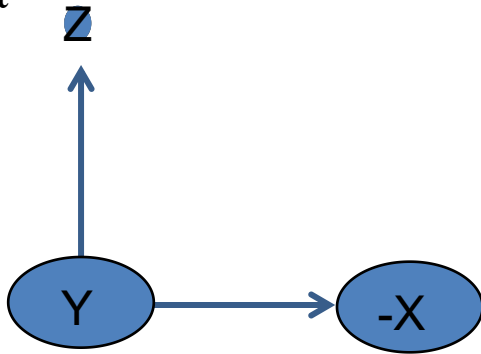
Whole-System Free-Field Passive Data 3

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	0.309320924	-4.237256642	37.6941831
2410	0.086345119	-4.279989986	37.32510184
2420	-0.20046696	-4.453275847	35.86513049
2430	-0.517612496	-4.625516156	34.47056361
2440	-0.790344833	-4.707277647	33.82768169
2450	-1.105074547	-4.9186611	32.22061978
2460	-1.582295799	-5.327457423	29.32609639
2470	-1.650704747	-5.473641401	28.35540534
2480	-1.614484034	-5.506783581	28.13984117
2490	-1.824124014	-5.729382921	26.73386237
2500	-1.864003876	-5.78534289	26.39159944



Whole-Device Free-Field Passive Field Configuration 3

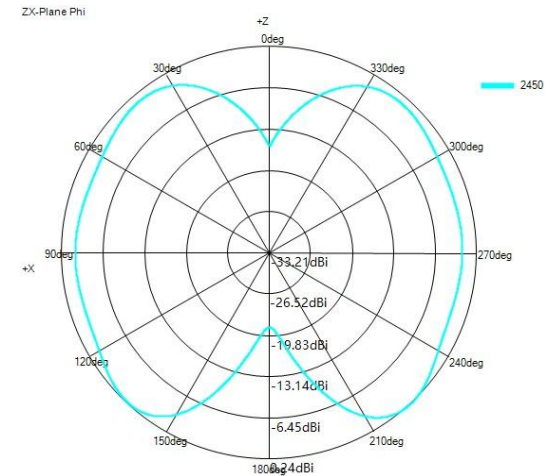
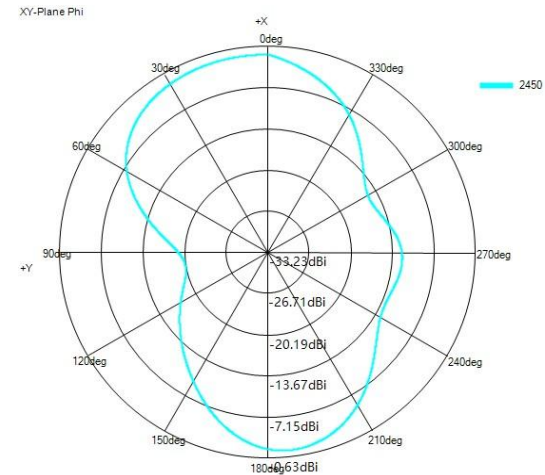
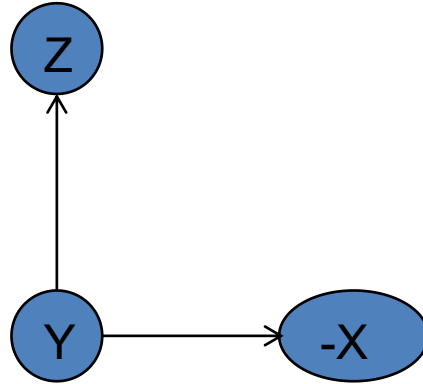
3D Field Plot





Full-Device OTA Free Field Configuration Type 2

2D field distribution diagram





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Thanks for Your Attention