



Shenzhen Yingfeng Antenna Technology Co., Ltd.

FM2207/2307 Test Report

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Date	2026.9.14
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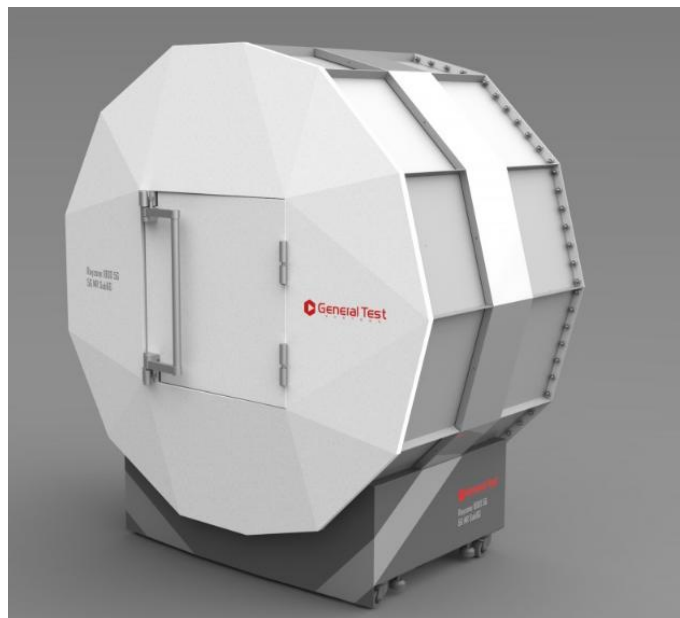
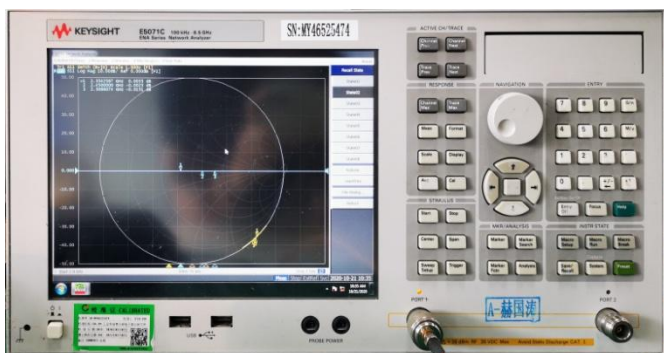
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Test Condition

- 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





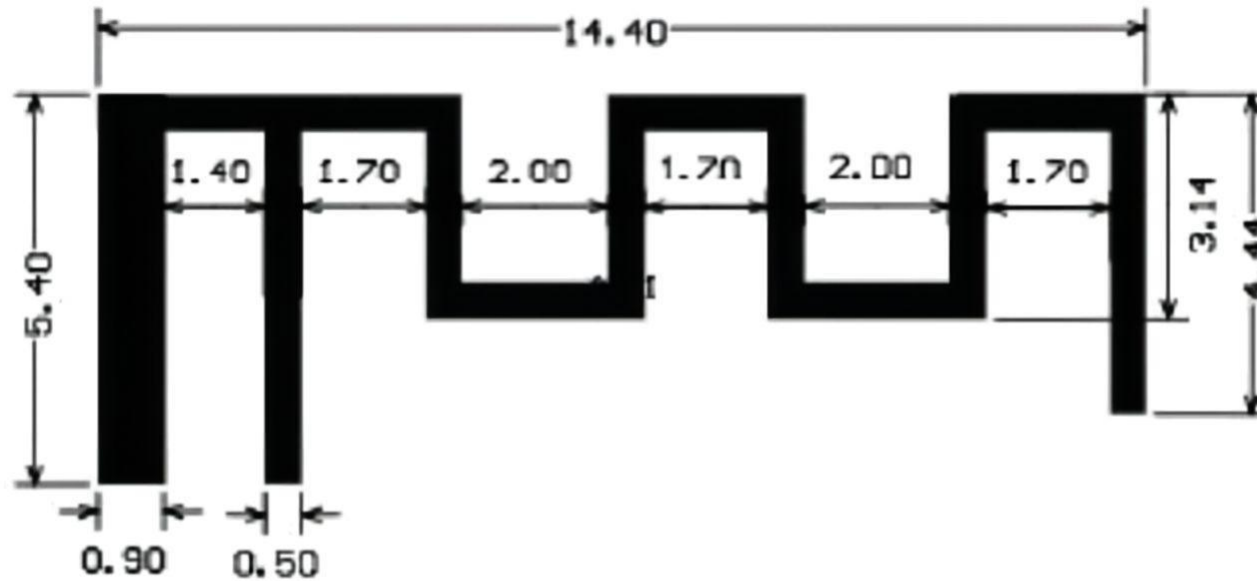
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Prototype Appearance





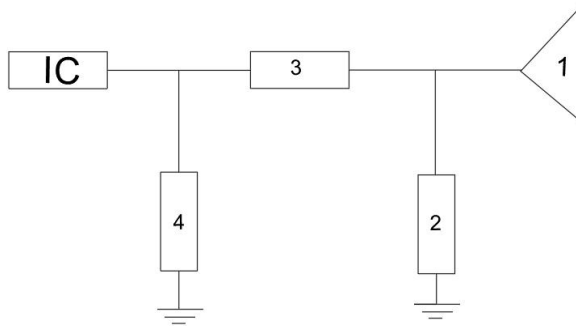
Antenna Size Diagram



Unit: mm



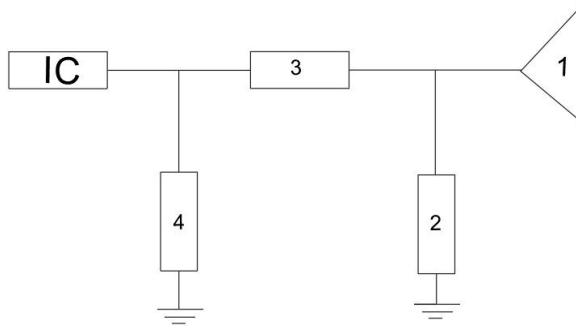
Matching Parameter 1



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



Matching Parameter 2



Number	Model	Specifications	Manufacturer	P / N	Common difference	
1	PCBantenna					
2	Electric capacity	1. 0pf/0402	Murata		$\pm 0. 1\text{pf}$	
3	Electric capacity	1. 5pf/0402	Murata		$\pm 0. 1\text{pf}$	
4	NC					



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Network Splitter Antenna S-Parameter 1





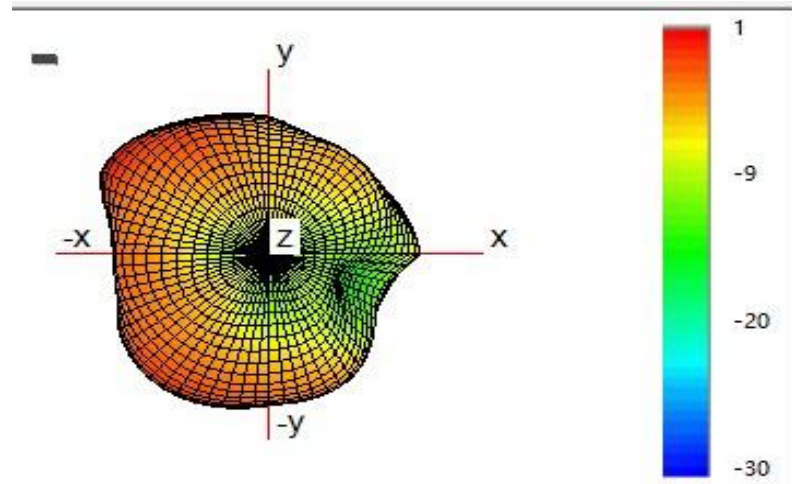
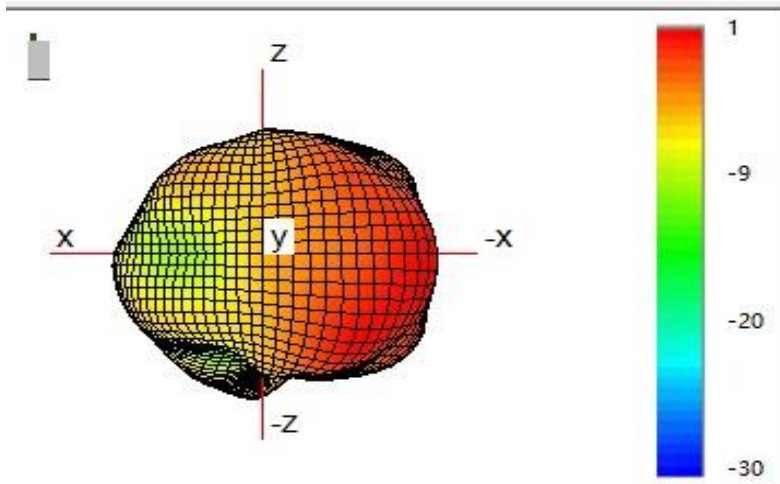
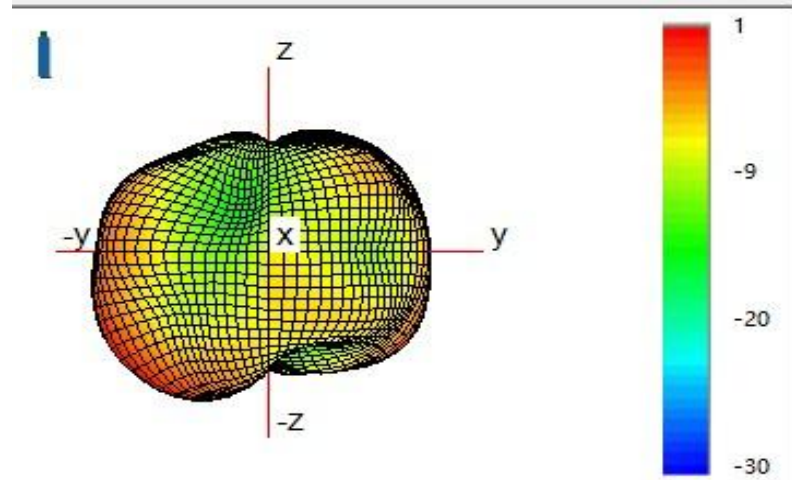
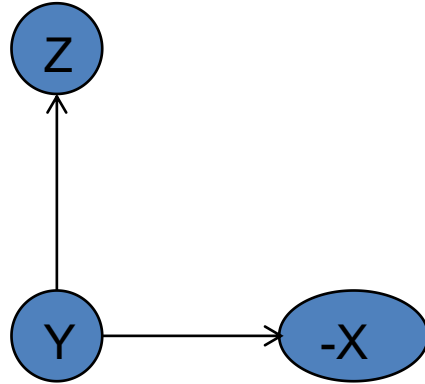
Whole-System Free-Field Passive Data 1

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.356678106	-3.394100879	45.77094848
2410	1.330019192	-3.458094839	45.1014512
2420	1.137139895	-3.615817321	43.49289014
2430	1.102327526	-3.69578993	42.69932473
2440	1.109825577	-3.685878087	42.79688811
2450	0.94523621	-3.795094167	41.73405492
2460	0.705701047	-4.064732816	39.22172753
2470	0.883574893	-4.082458849	39.06196757
2480	0.999238964	-4.055623979	39.30407701
2490	0.863563339	-4.202606264	37.99613076
2500	0.852939613	-4.249973675	37.58396825



Full-Device OTA Free Field Configuration 1

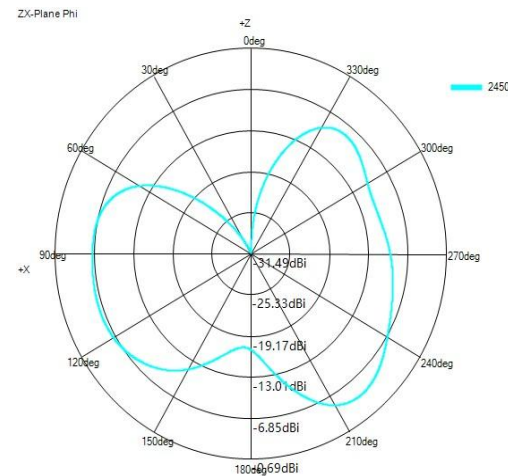
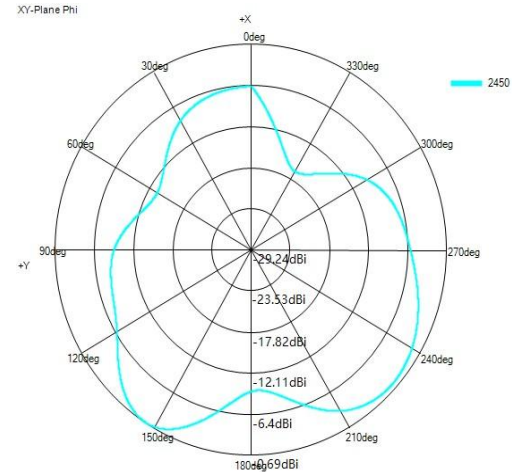
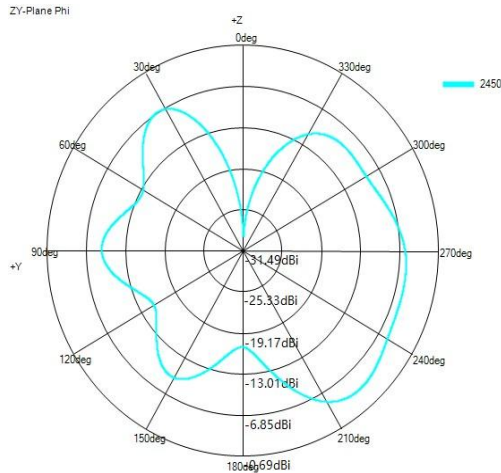
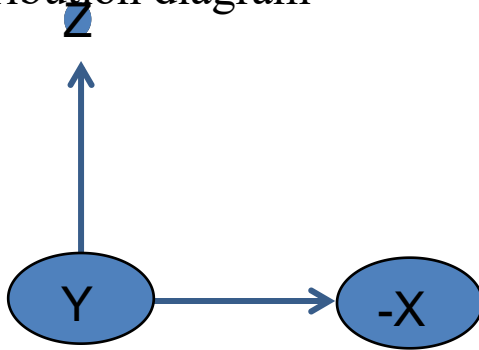
3D Field Plot





Whole-Device Free-Field Passive Field Configuration 1

2D field distribution diagram





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Network-Based Antenna Debugging – S-Parameter 2





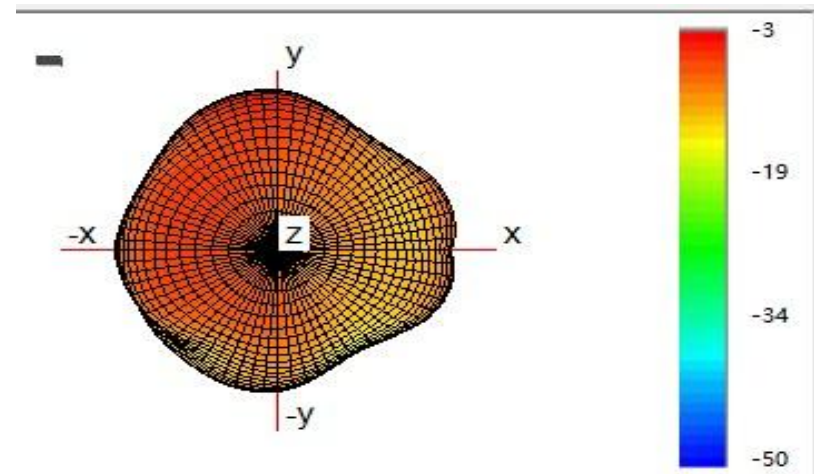
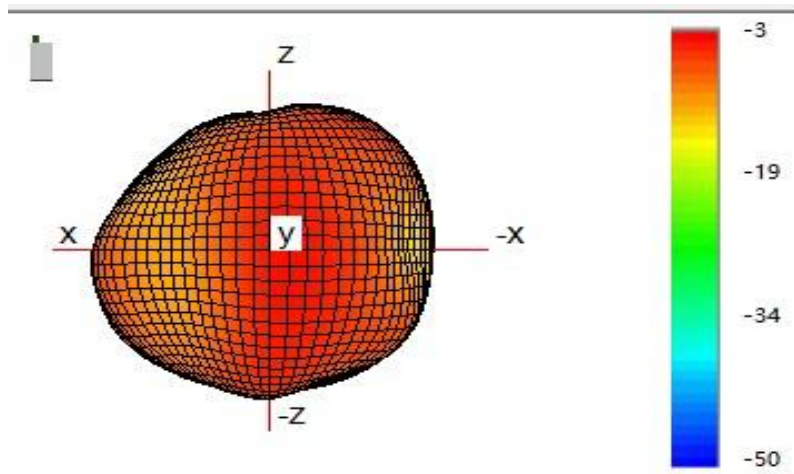
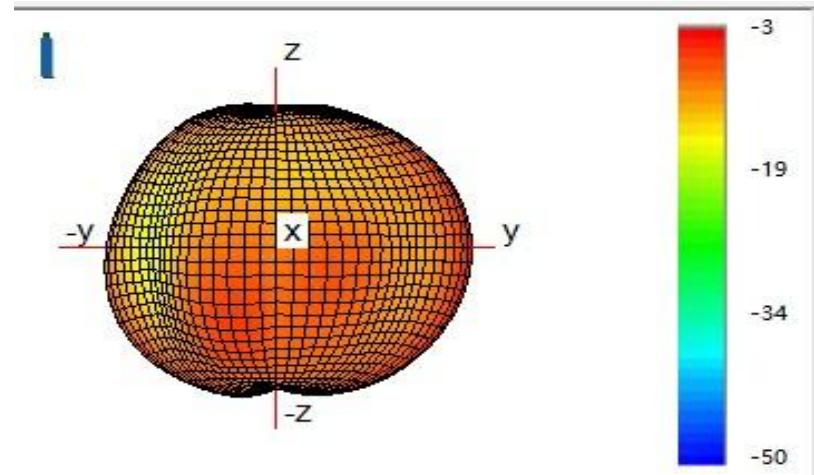
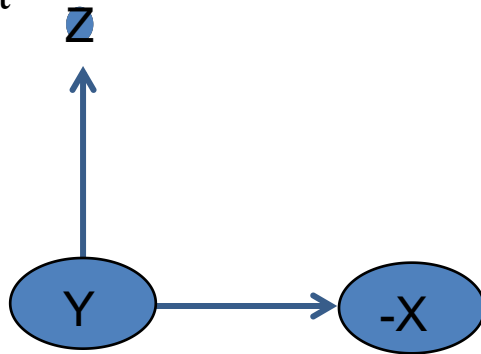
Whole-System Free-Field Passive Data 2

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-3.216753409	-8.391014966	14.48433308
2410	-3.191088377	-8.415407861	14.40320738
2420	-3.400827886	-8.497422401	14.13376155
2430	-3.546751577	-8.518195147	14.06631975
2440	-3.529723772	-8.374425697	14.53976644
2450	-3.875208834	-8.383782359	14.50847495
2460	-4.421969768	-8.591103366	13.83214915
2470	-4.702284911	-8.562435216	13.92375838
2480	-5.022880458	-8.471505771	14.21835728
2490	-5.404528483	-8.620126371	13.74001994
2500	-5.313141267	-8.657680453	13.62172018



Full-System Free-Field Passive Field Configuration 2

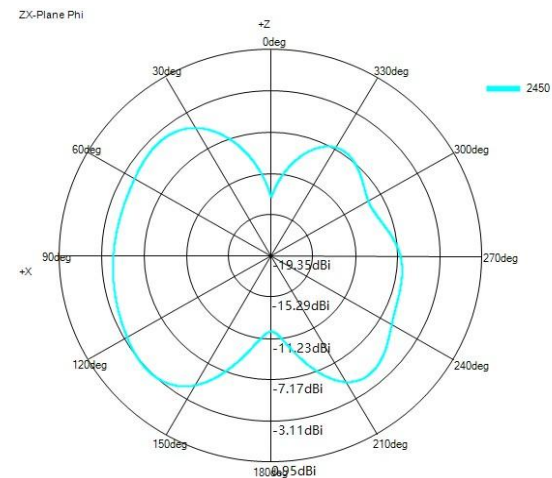
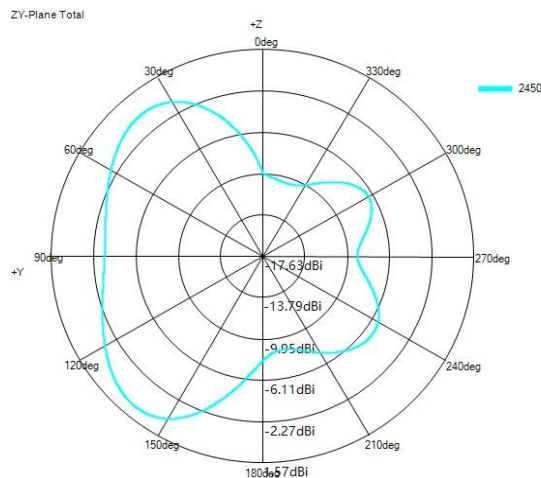
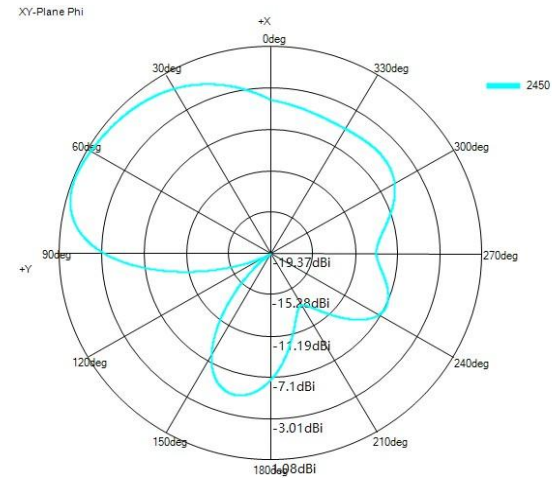
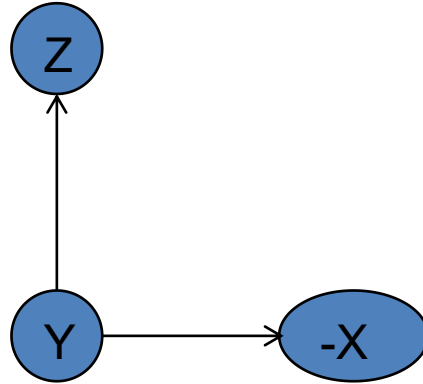
3D Field Plot





Full-Device OTA Free Field Configuration Type 2

2D field distribution diagram





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Thanks for Your Attention