



Shenzhen Yingfeng Antenna Technology Co., Ltd.

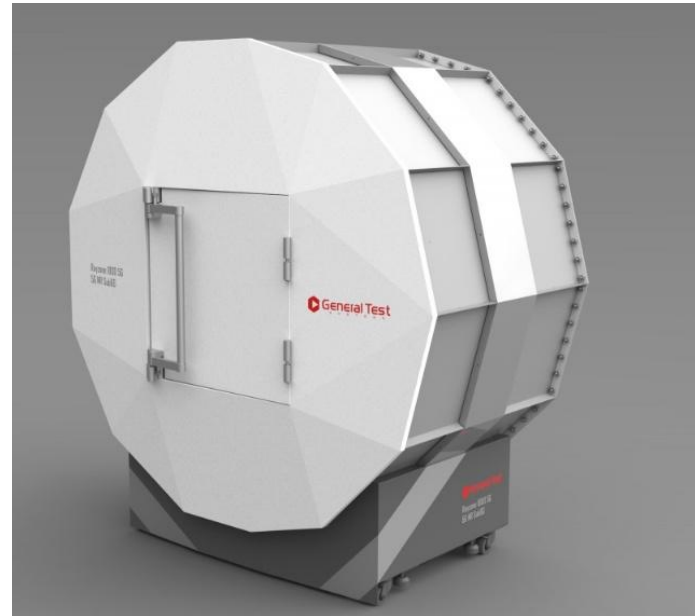
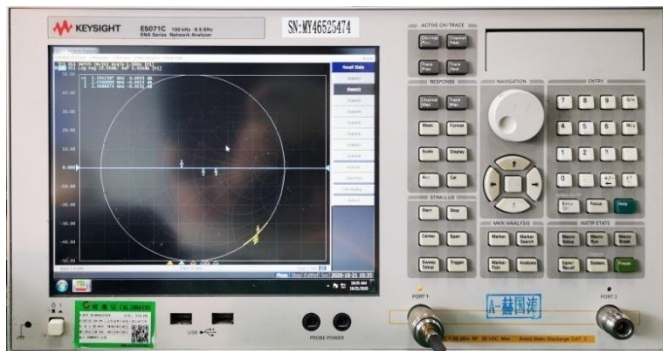
深圳市迎丰天线技术有限公司

板载天线 Onboard antenna Test Report



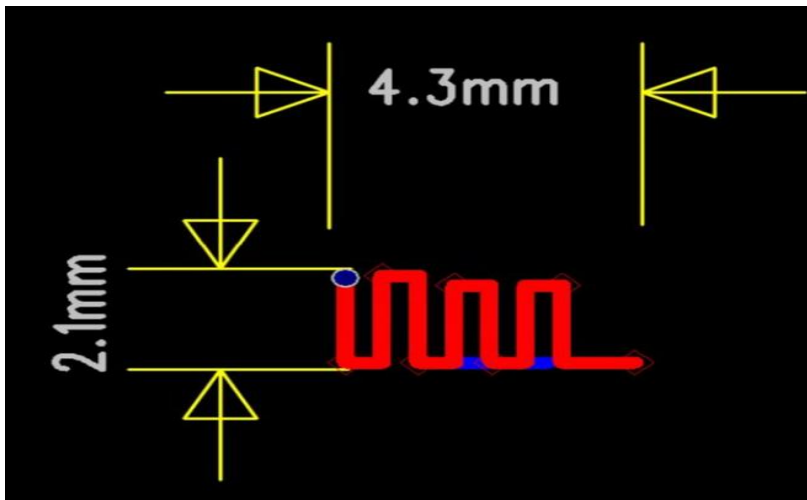
测试条件 Test condition

- 1. S参数测量 (S parameter measurement)
- 2. 设备: 网络分析仪 (Agilent E5062A), 微波暗室, MT8852B (Equipment: Network analyzer (Agilent E5062A), microwave darkroom, MT8852B)
- 3. 项目: 阻抗, 回波损耗, VSWR, 效率, 增益, 辐射场型, 灵敏度, 功率, 频偏 有源数据 TRP TIS (Items: Impedance, return loss, VSWR, efficiency, gain, radiant field type, sensitivity, power, frequency offset active data TRP TIS)



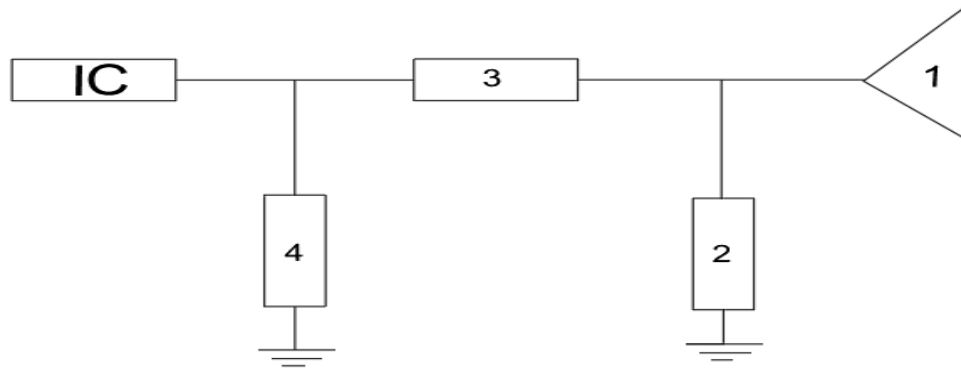


样机外观和天线 Prototype appearance and antenna





匹配参数 Matching parameter

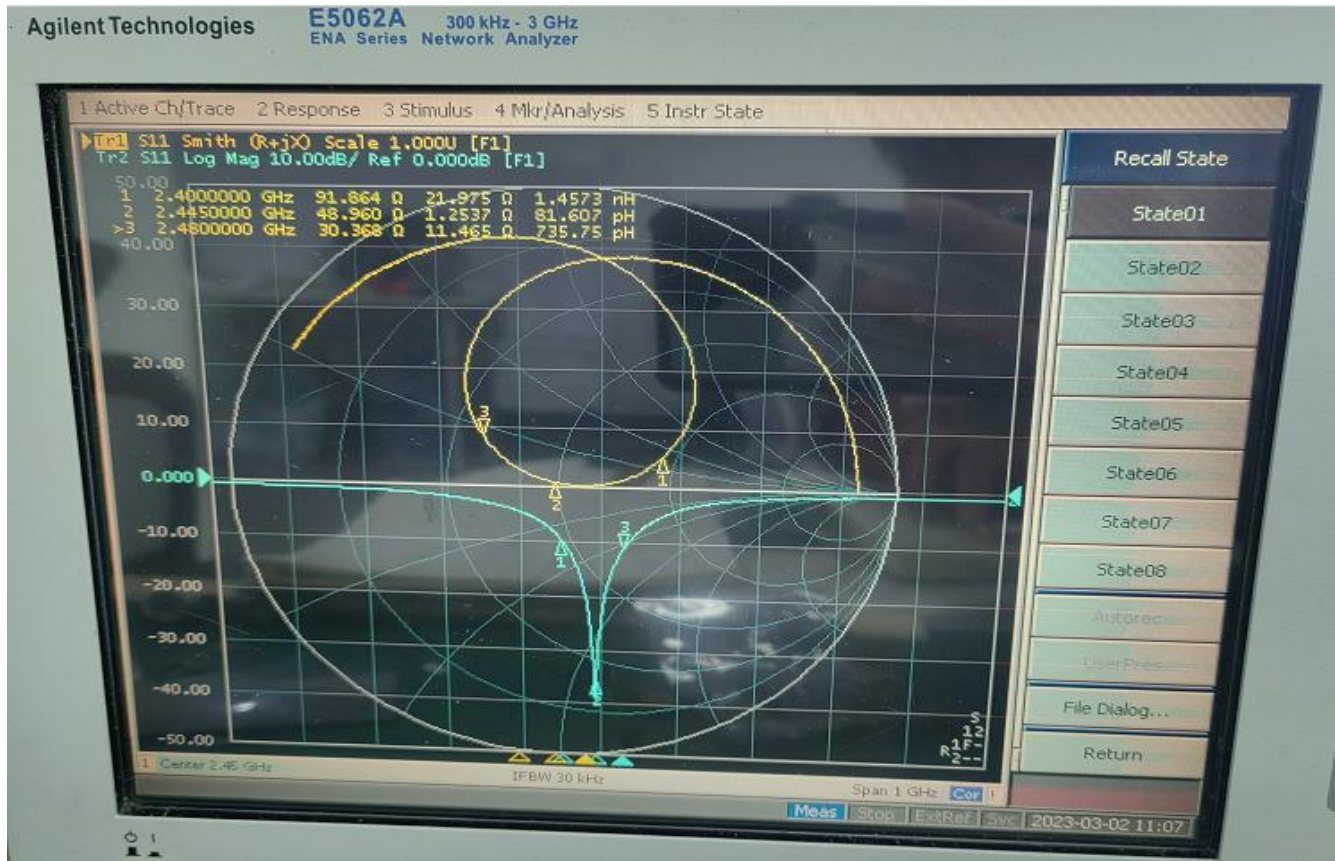


	Model number	specification	manufacturer	Part number (P/N)	allowance	
1	Onboard antenna					
2	NC					
3	inductance	1.5NH/0201	Murata		$\pm 0.1\text{NH}$	
4	inductance	1.2NH/0201	Murata		$\pm 0.1\text{NH}$	



网分调试天线S参数 Network debugging antenna S parameters

调试波形 Debugging waveform

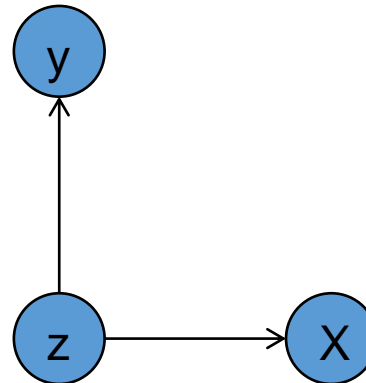
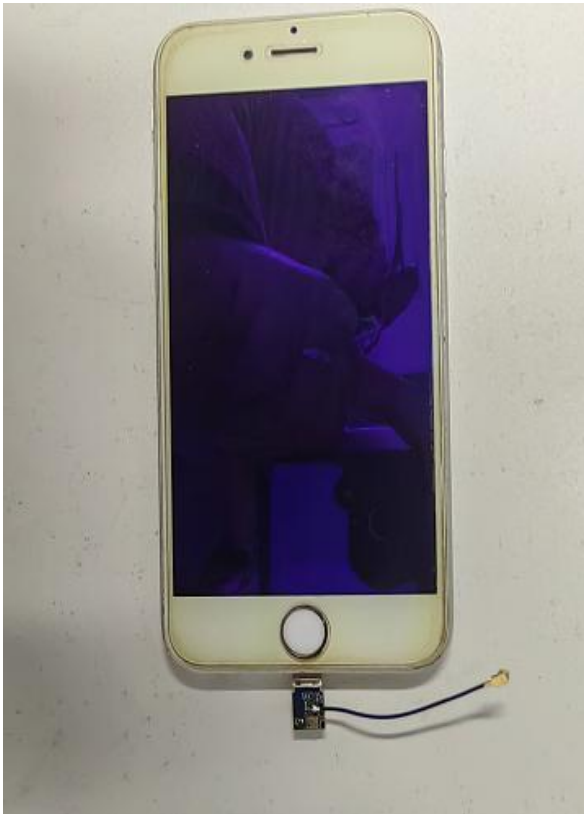




微波暗室测试天线效率场型 Measurement of antenna efficiency field pattern in microwave darkroom

1. 微波暗室测试天线效率

Measurement of antenna efficiency in microwave darkroom



Characteristic evaluation		Please tick according to actual test
10%	L	<input type="checkbox"/>
20%	M	<input type="checkbox"/>
30%	H	<input checked="" type="checkbox"/>

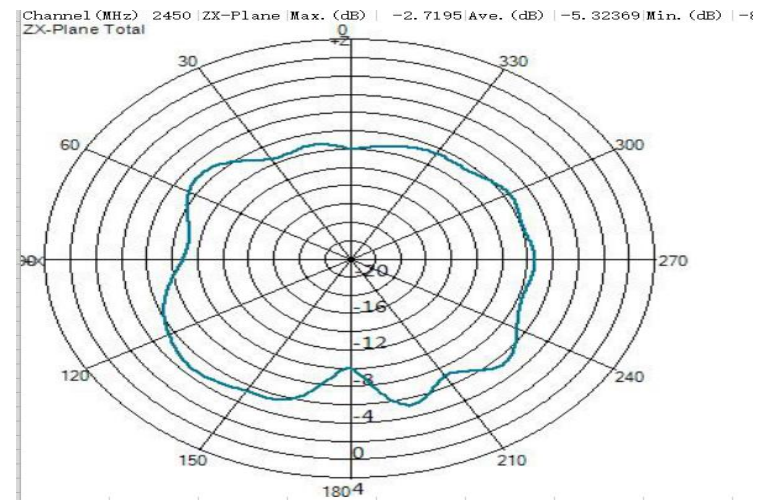
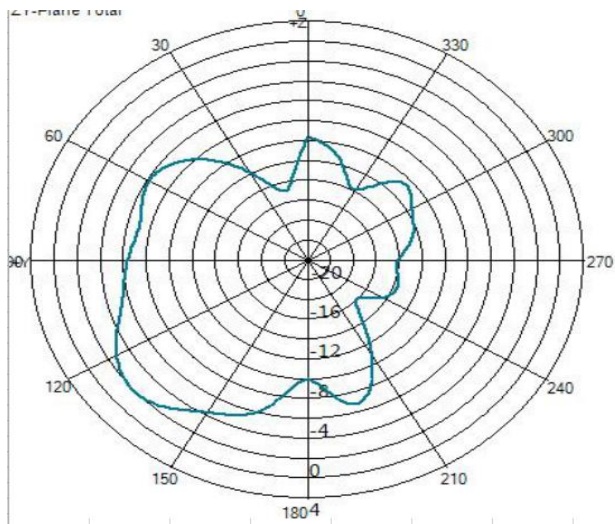
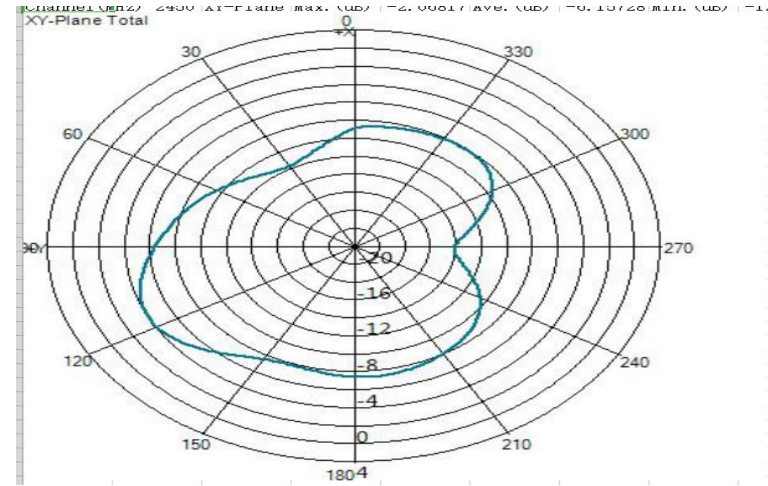
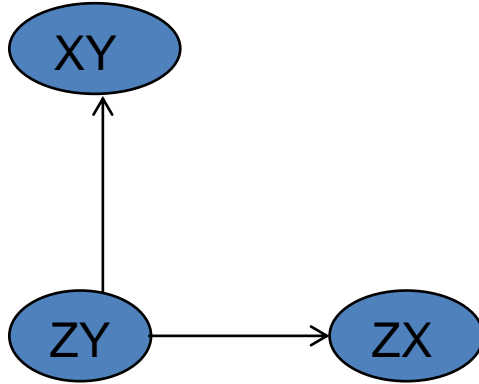


微波暗室测试天线效率 Measurement of antenna efficiency in microwave darkroom

Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	1.56985586	-5.440514066	32.69596188
2410	1.332145308	-5.311962626	33.37780531
2420	1.515501026	-5.242816727	33.75299226
2430	1.345455864	-4.923111279	35.56753576
2440	1.183066296	-5.708818618	36.86075021
2450	1.102098419	-4.593353974	37.58446737
2460	1.420969951	-4.610935811	37.47302105
2470	1.424651063	-4.592631435	37.589057
2480	0.527103736	-4.643575154	37.26732186
2490	1.122804557	-4.758739364	36.55376232
2500	0.181447408	-5.112322643	34.47753813

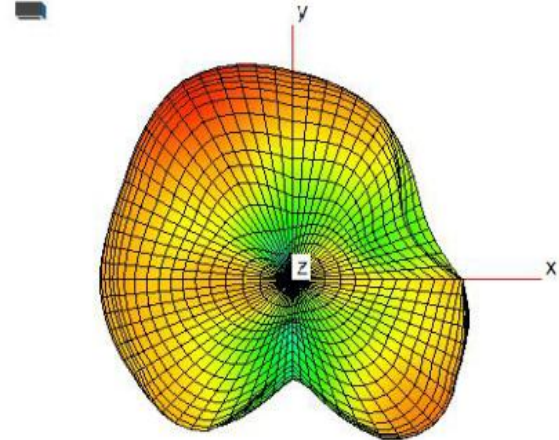
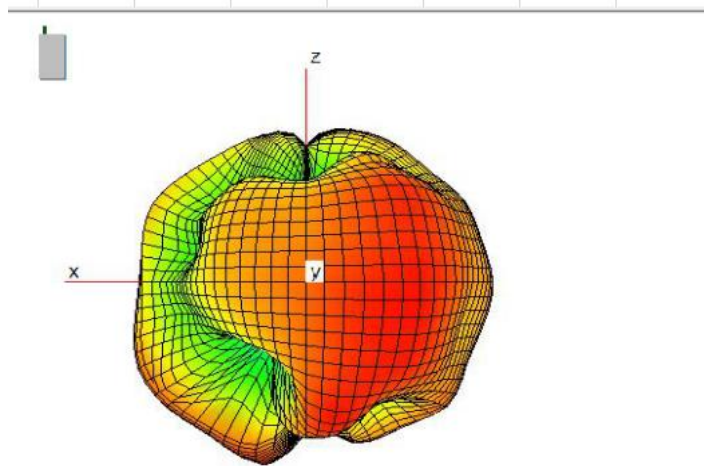
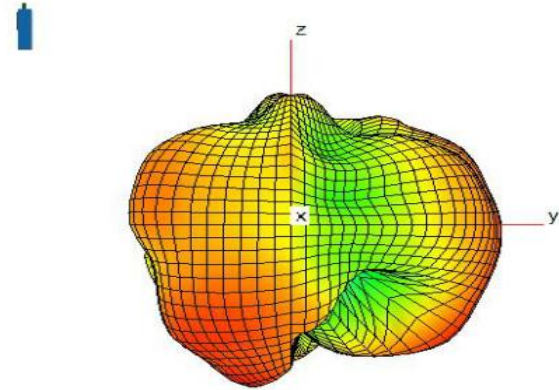
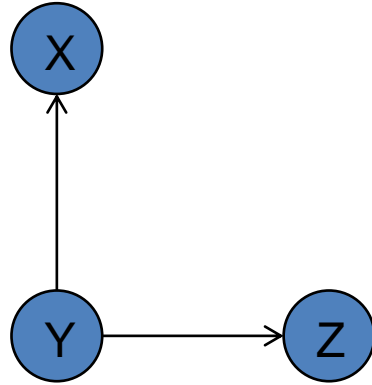


2D graph





3D graph





总结 Sum up

Specification

Frequency Range	2400 – 2500MHz
Type of Antenna Directivity	PCB Printed Antenna
Directivity	Omnidirection
Polarization	Vertical
Gain	1.57dBi
AttachmentType	Internalmounted
Manufacture	Shenzhen Yingfeng Antenna Technology Co., Ltd. 412, Building 7, Phase II, Nanshan Yungu Pioneer Park, No. 2, Pingshan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen
Model	SAMPLE
Test Lab.	Shenzhen YingfengAntenna Technology Co., Ltd.



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Thanks for Your Attention