



深圳市昱晟通讯设备有限公司

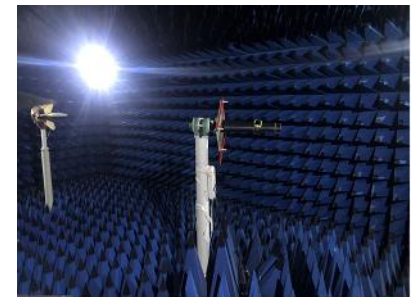
Yusheng Communications-equipment Co.,LTD

For Wuhan Qiwu Technology Co., Ltd.
3 / F, Creative workshop, No.04, District D, Creative world, No.16 Yezhihu
West Road, Hongshan District, Wuhan City, Hubei Province China
antenna test report

Radio: Hong Yuankai

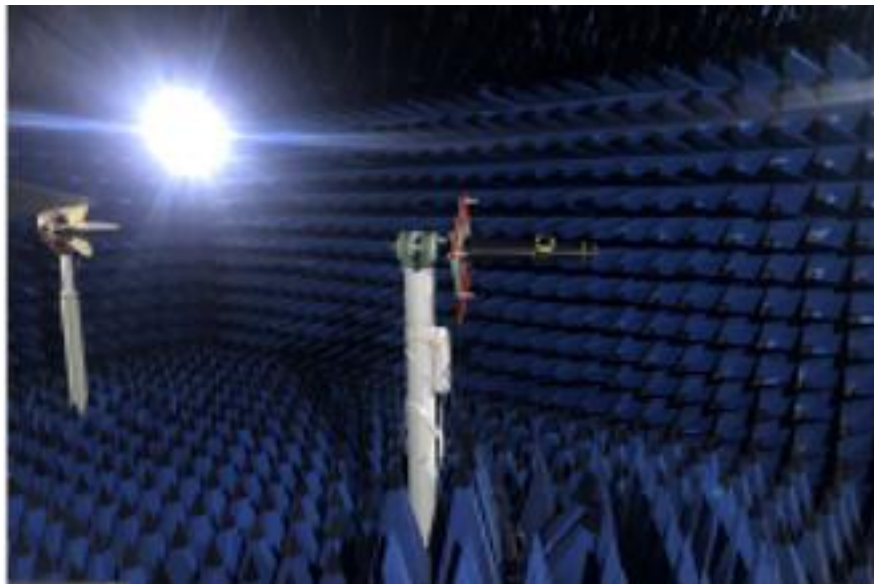
Date: 2026-7-21

Contact: 15119409299



Project development environment

As we transition from the internet era to the intelligent age, China is actively building a digital society and smart cities. Over the next 5-10 years, both consumer electronics and IoT markets will demonstrate tremendous growth potential. The wireless communications sector remains highly diversified. Leveraging its core strengths in antenna technology and comprehensive capabilities, Yusheng is committed to delivering competitive professional-grade product solutions that meet market demands.



YuSheng Communications product portfolio covers nearly all antenna applications for wireless terminal devices, including automotive antennas, high-precision surveying and mapping antennas, UAV ground/satellite data navigation systems, high-precision positioning antennas, medical device wireless transmission solutions, consumer-grade antennas (mobile phone, PAD, laptop antennas), base station/intrusive distribution antennas, smart wearable antennas (smartwatches, TWS earbuds), security home antennas, and various intelligent devices utilizing wireless data transmission and control technologies.

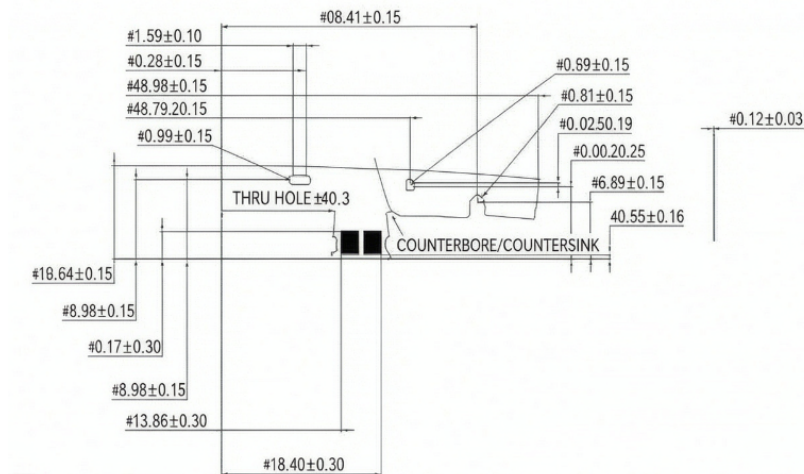
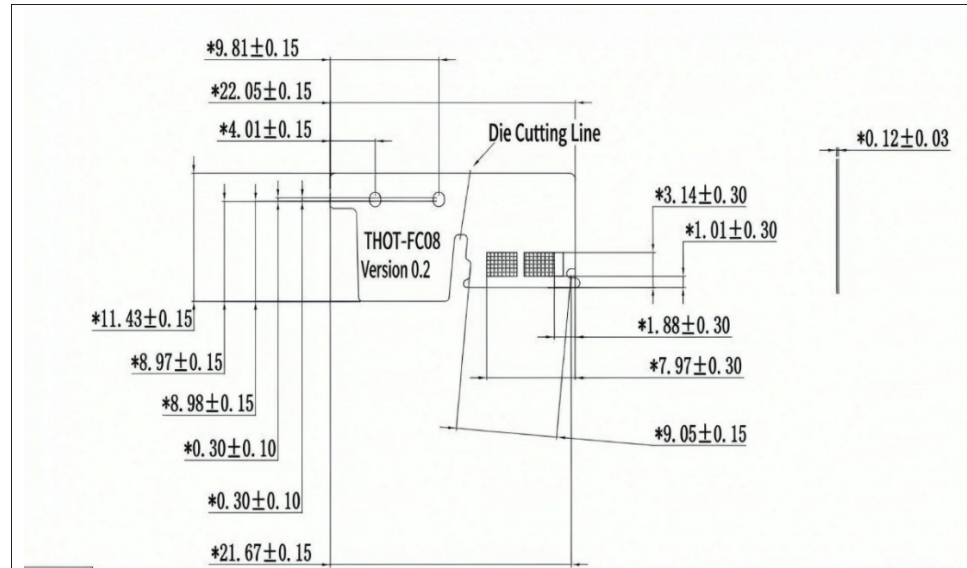
Project debugging
introduction

type				
template	motherboard			
Band and antenna material	FC08	frequency range		material quality
		antenna	GPS:1575.42MHz BT:2400MHz-2500MHz	FPC
	Follow customer requirements			

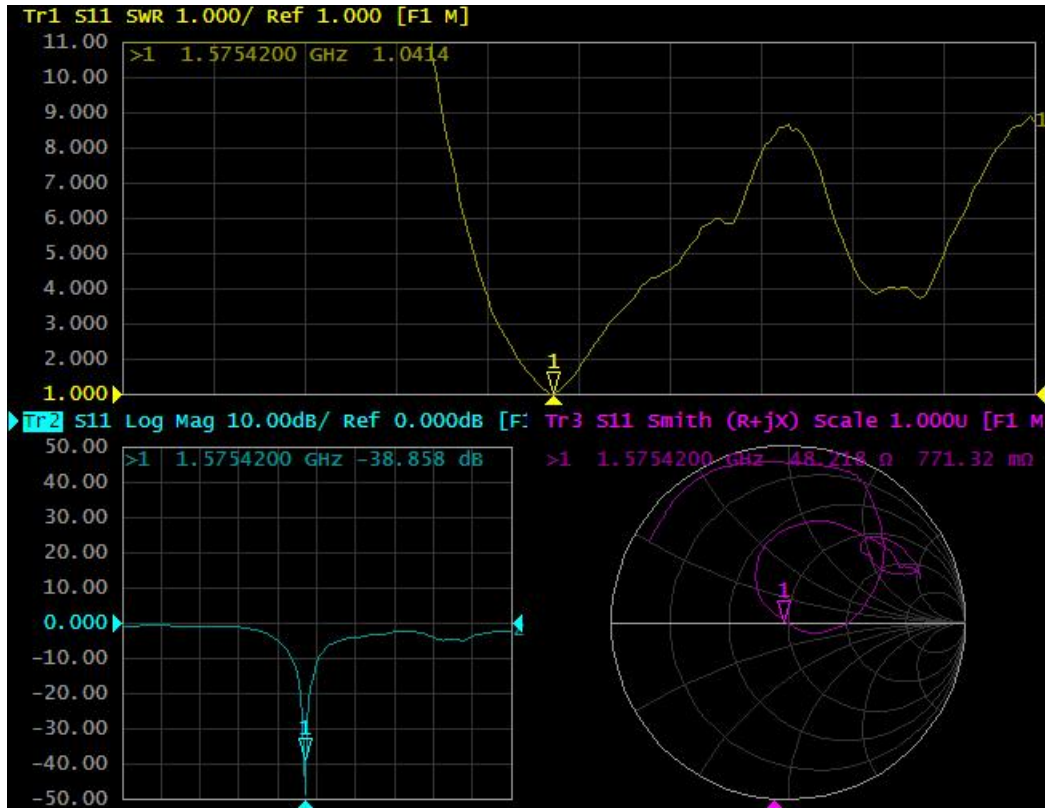
Report version
outline

Report version	Report time	The problems solved by this antenna development
V0.1	2026-6-12	Antenna preliminary calibration
V0.2	2026-7-21	Full-System Test Report

Antenna photo & Size

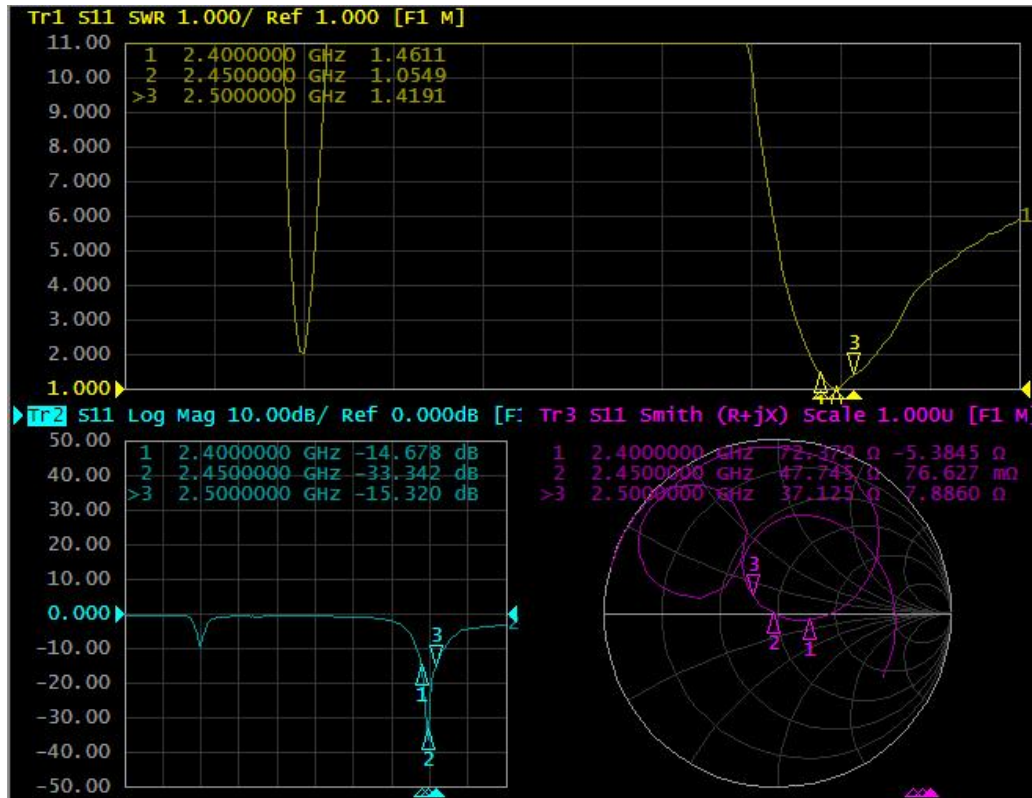


Antenna passive parameters- GPS L1



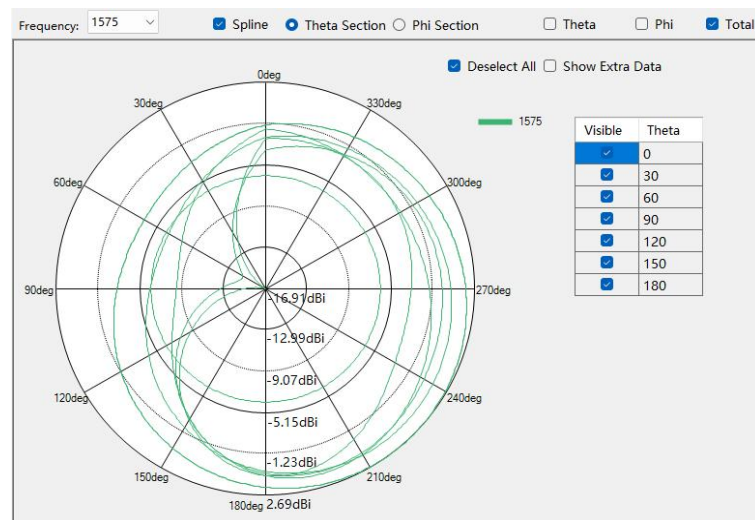
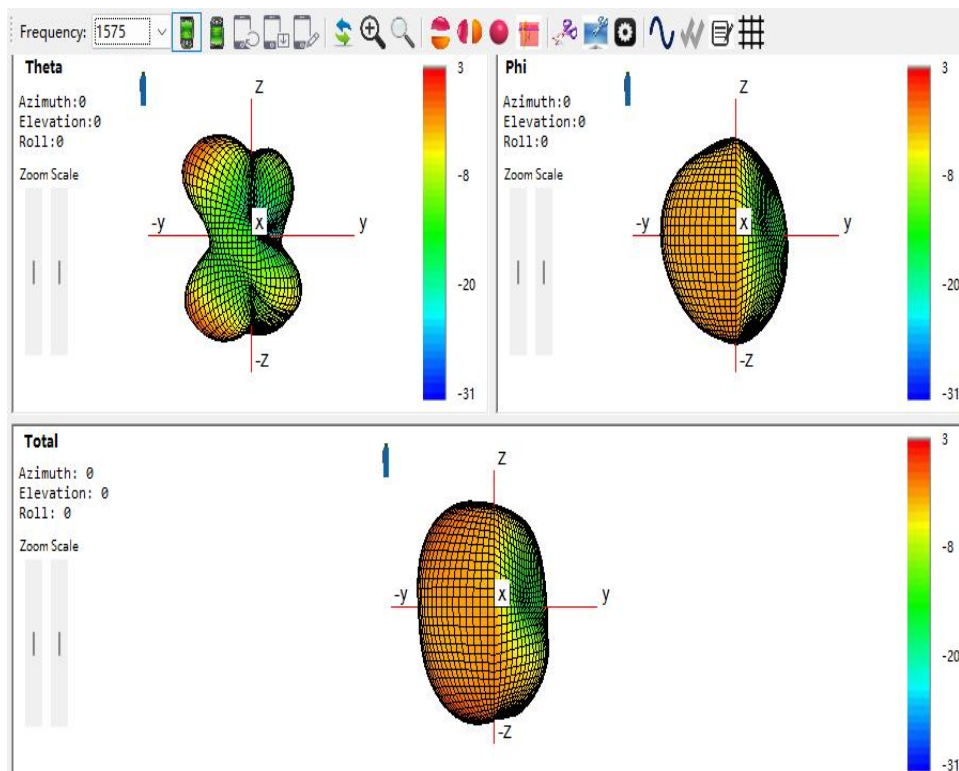
Freq	Effi (%)	Effi (dB)	Gain (dBi)
1555	52.8%	-2.77	1.15
1560	53.0%	-2.76	1.23
1565	53.6%	-2.71	1.31
1570	54.0%	-2.68	1.39
1575	55.2%	-2.58	1.52
1580	54.7%	-2.62	1.45
1585	54.1%	-2.67	1.40
1590	53.9%	-2.69	1.33

Antenna passive parameters- BT

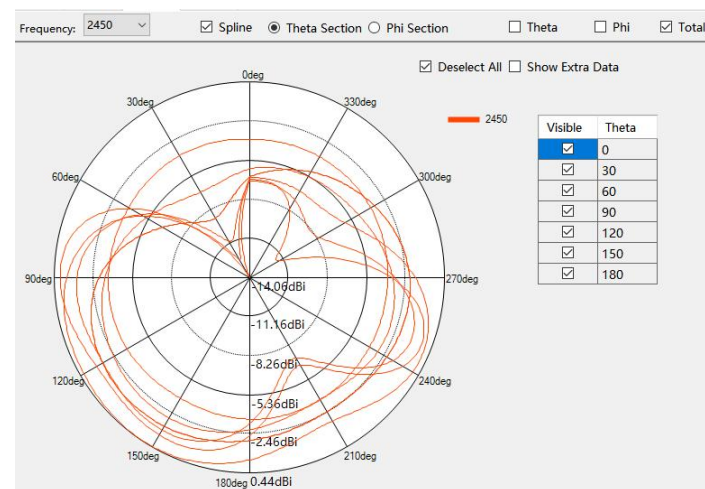
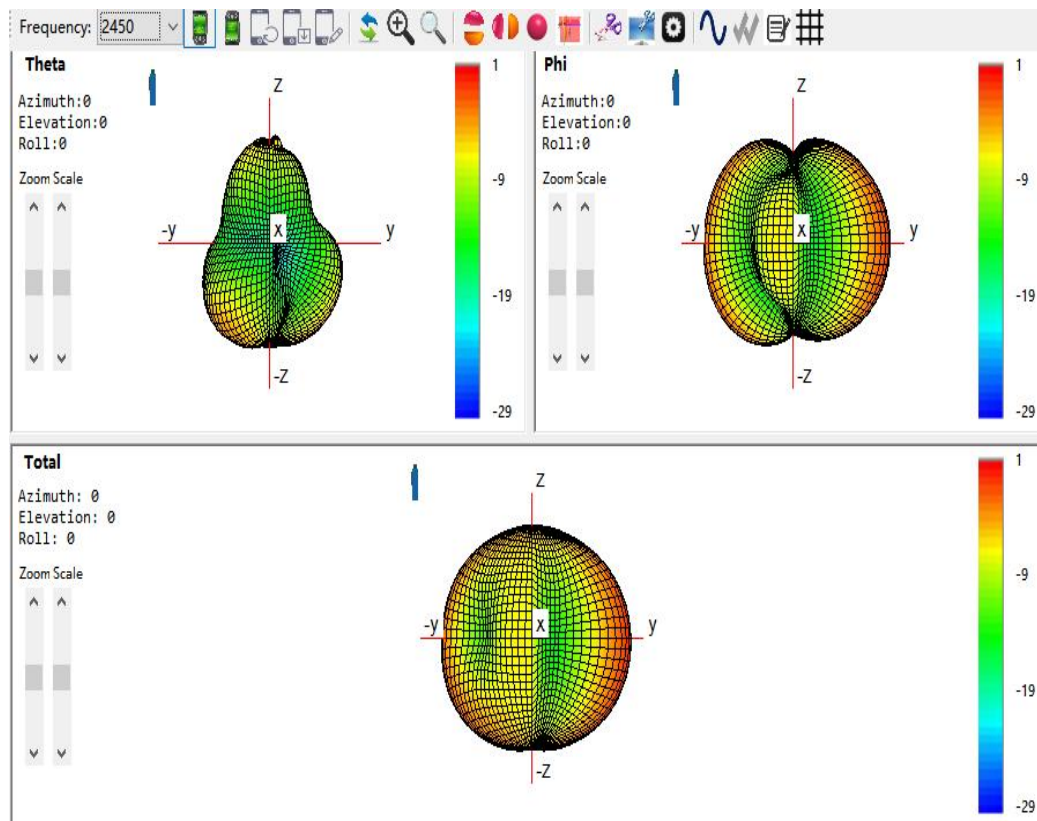


Freq	Effi (%)	Effi (dB)	Gain (dBi)
2400	43.2%	-3.64	0.14
2410	43.8%	-3.58	0.28
2420	44.2%	-3.55	0.35
2430	45.7%	-3.40	0.47
2440	45.8%	-3.39	0.45
2450	45.6%	-3.41	0.52
2460	45.4%	-3.43	0.58
2470	45.1%	-3.46	0.52
2480	44.5%	-3.52	0.57

GPS L1 Antenna - Apple Diagram and Directional Pattern



BT Antenna - Apple Diagram and Directional Pattern



Thank you!



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