



深圳市昱晟通讯设备有限公司

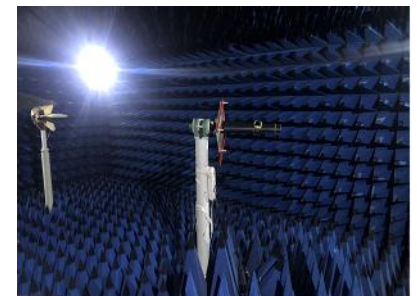
Yusheng Communications-equipment Co.,LTD

Guanglian LWR02 Antenna Debugging Report

Radio Frequency: Chen Kehong

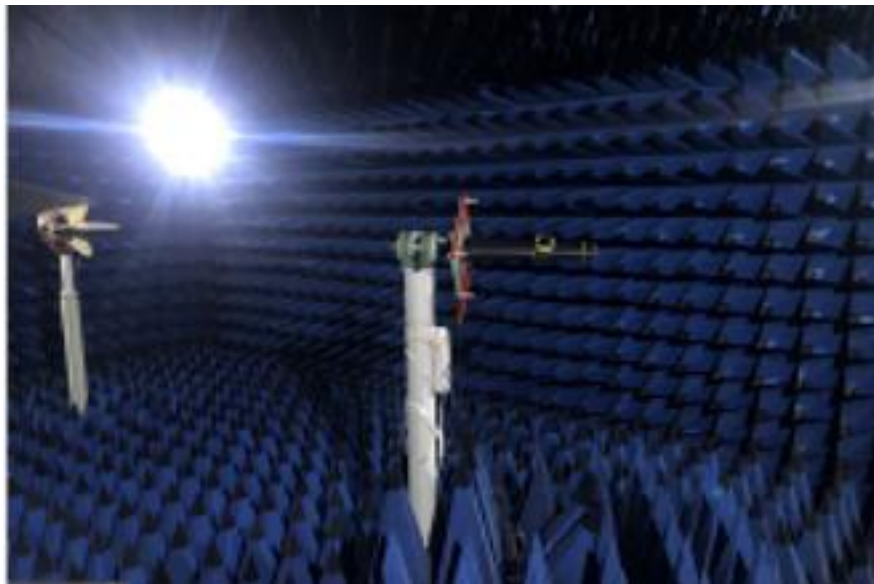
Date: 2026-3-02

Contact Information: 19925137130



Project Development Environment

We are transitioning from the Internet era to the intelligent era, with the nation actively building a digital society and smart cities. Over the next 5 to 10 years, both the consumer electronics market and the Internet of Things market hold tremendous growth potential. The wireless communications sector is highly diverse. Moving forward, Yusheng will leverage its customer platform advantages in the antenna business and its comprehensive capabilities to deliver market-competitive, professional-grade product solutions to clients.



Yusheng Communications product portfolio covers nearly all antenna applications for wireless terminal devices, including automotive antennas, high-precision measurement and surveying antennas, ground-based and satellite data navigation antennas for drones, high-precision positioning antennas, wireless transmission antennas for medical devices, consumer antennas (for mobile phones, tablets, and laptops), base station/infrared distribution antennas, smart wearable antennas (for smartwatches and TWS earphones), security and home antennas, as well as antennas for various wireless data transmission and control smart devices.

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Project Commissioning Overview

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Antenna passive parameters

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Antenna active parameters

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Antenna Matching

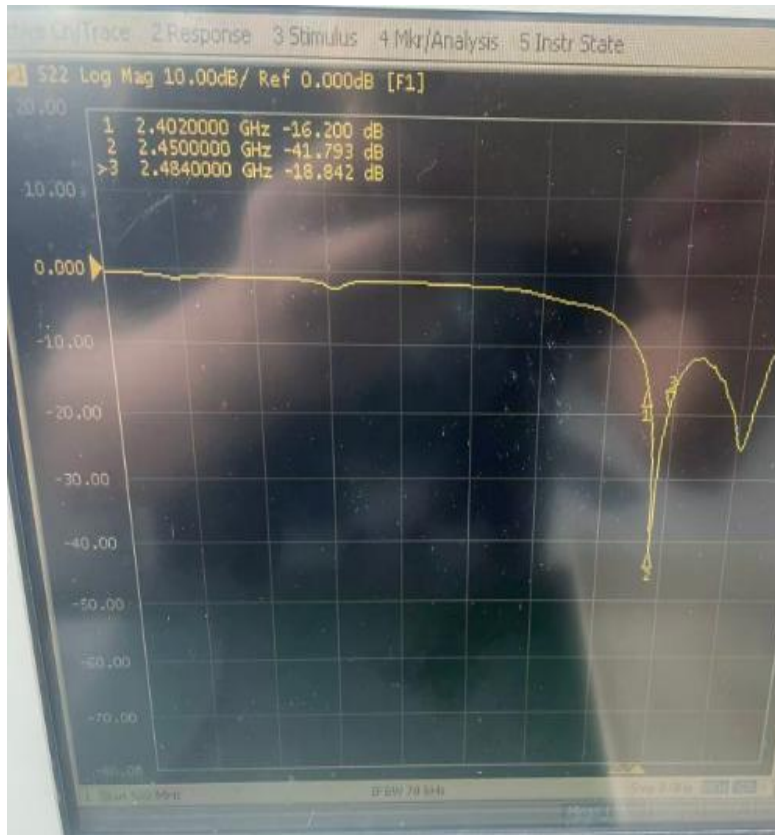
**Project Commissioning
Overview**

type	2. 4G		
Band and antenna material	BT/WIFI	frequency range	material quality
		2. 4G	steel disc
performance requirement	Implement according to customer requirements		

Report Version Outline

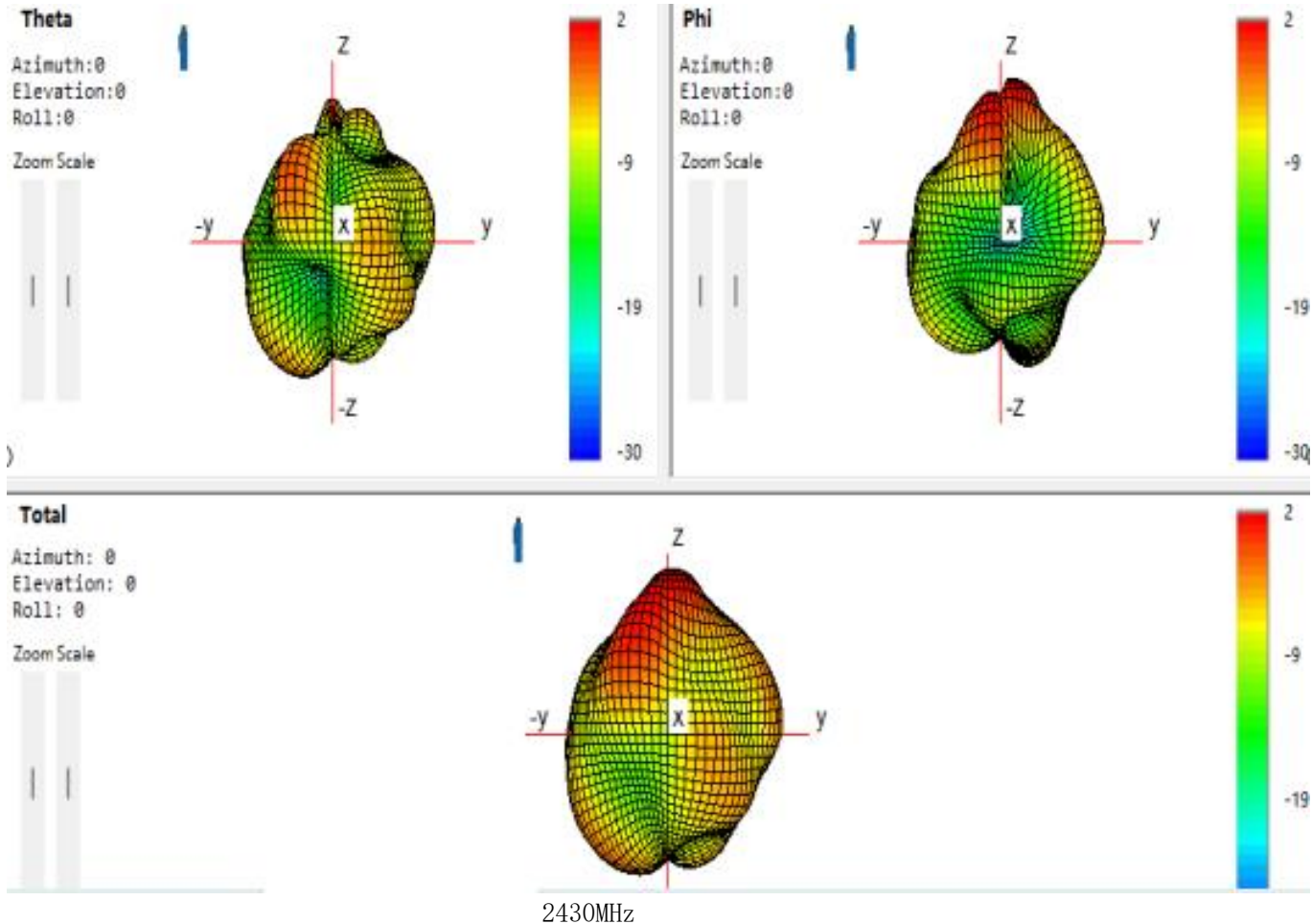
Report Version	Report Time	The problems addressed by this antenna development
V0.1	2025-12-26	Antenna Debugging Report
V0.2	2026-01-14	New Mainboard Antenna Debugging Report
v0.3	2026-01-19	Mold Shell Material Verification Report
v0.4	2026-03-02	Efficiency of retesting the complete machine during the trial production phase

Antenna customer-provided performance parameters

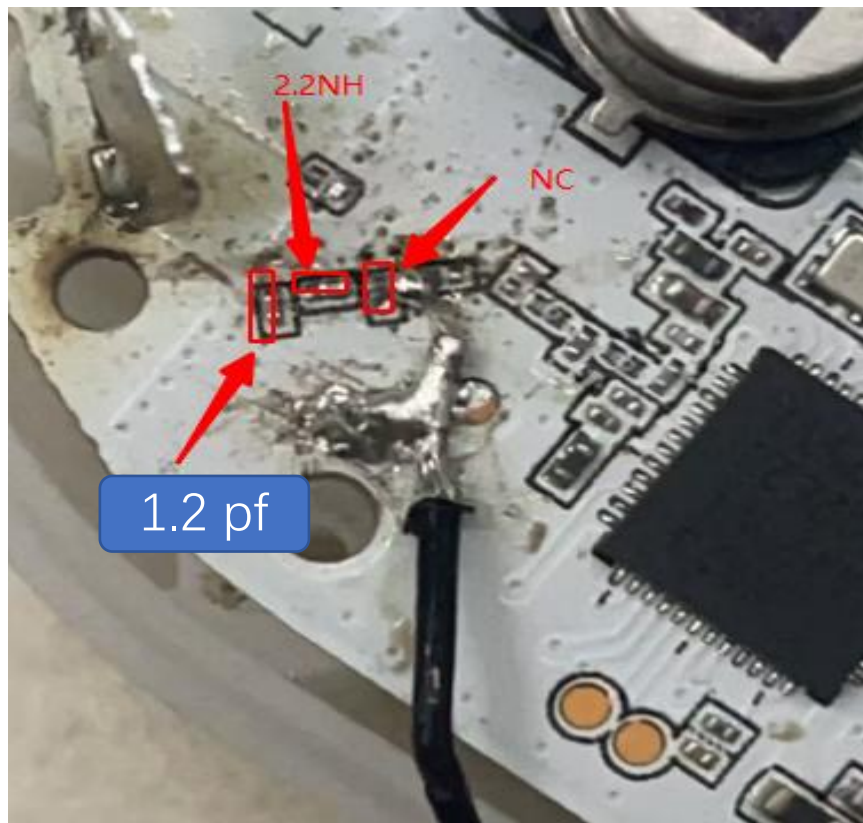


Freq (Mhz)	Effi (%)	Gain(db i)
2400MHZ	38.6	1.15
2410MHZ	41.2	1.05
2420MHZ	42.3	1.32
2430MHZ	42.1	1.45
2440MHZ	43.0	1.32
2450MHZ	42.0	1.23
2460MHZ	39.5	1.32
2470MHZ	40.9	1.12
2480MHZ	39.6	1.06
2490MHZ	38.7	1.20
2500 MHZ	38.3	1.15

directional diagram



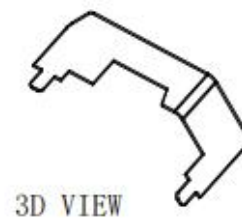
The match is for the trial prototype and has not been modified.



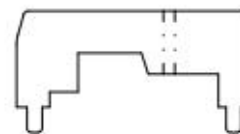
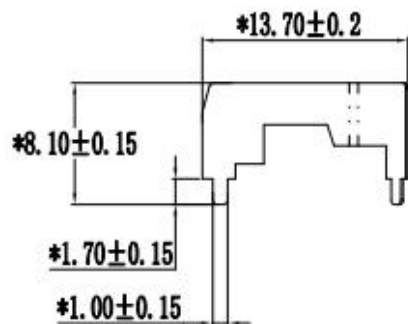
Antenna size



SIEZ UNIT:MM



3D VIEW



Flat pattern

Supplier Information

1. Supplier Name: Shenzhen Yusheng Communication Equipment Co., Ltd.
2. Supplier Address: Room 407, 4th Floor, Building 2, Nantai Yunchuang Valley Park, southeast of the intersection of Guangming Avenue and Dongchang Road, Guangming District, Shenzhen

Thank you!



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