



Shenzhen Yishengbang Technology Co., Ltd

Customer: Zhilin Tai

Project: E6S

Report Version: V1.0

Report Date: 2026-08-03

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Contents

- Revised History
- Requirement of Antenna Design and Measurement
- Antenna Placement & Solution
- VSWR Results
- Test Setup for Radiation Pattern Measurement
- 2D、3D Radiation Pattern Results
- Results Summary (peak gain ,efficiency)
- Conclusion

Antenna Tuning-----Revision History

Released Date	Version	Record
2026-08-03	V1.0	First Edition Antenna Data



CONTENTS

01

Project Overview

02

Antenna Performance
Tuning – Passive Section

03

Antenna Performance
Tuning – Active Section

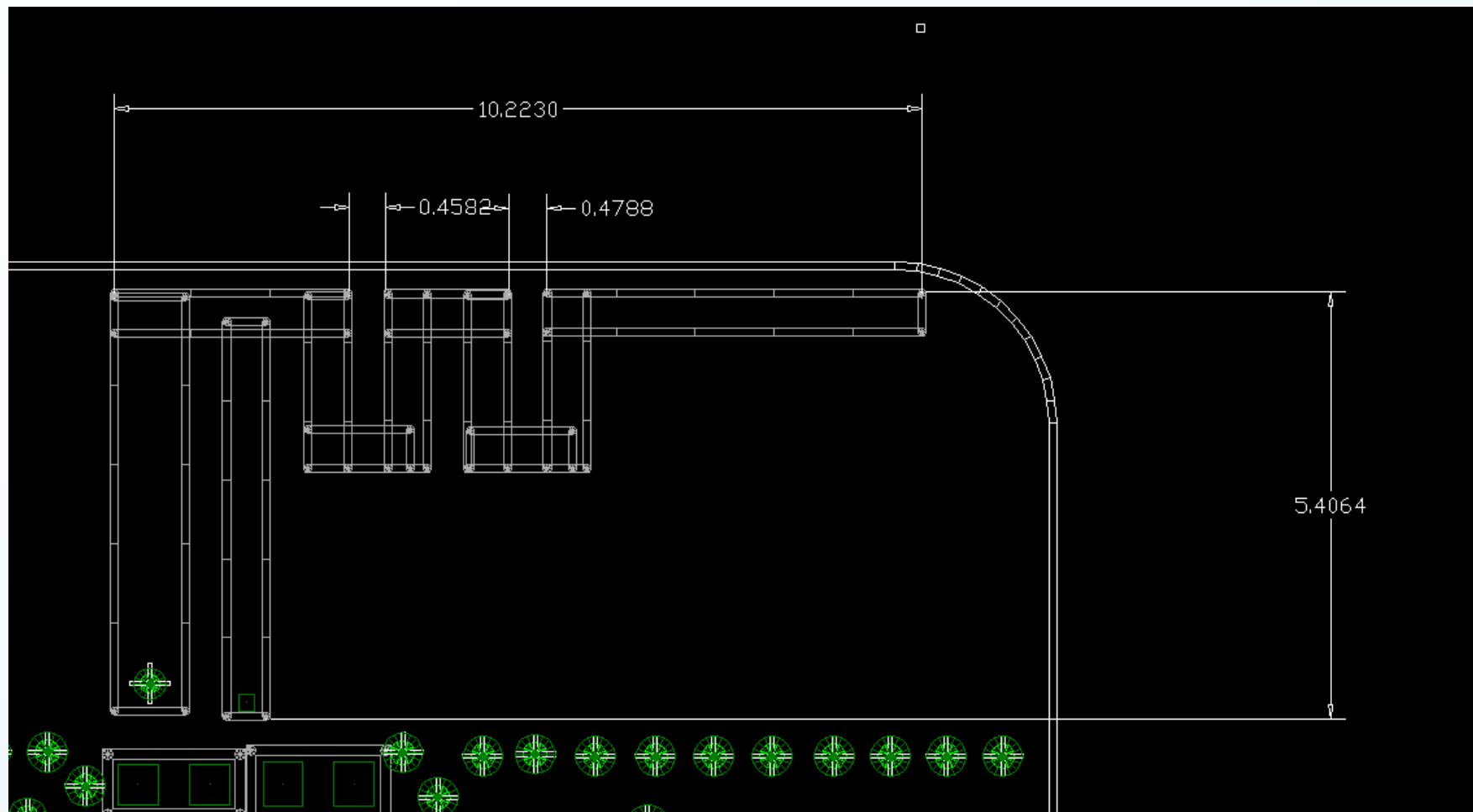
04

Recommendations and
Conclusions



0 Project Overview

1 Test Prototype Images



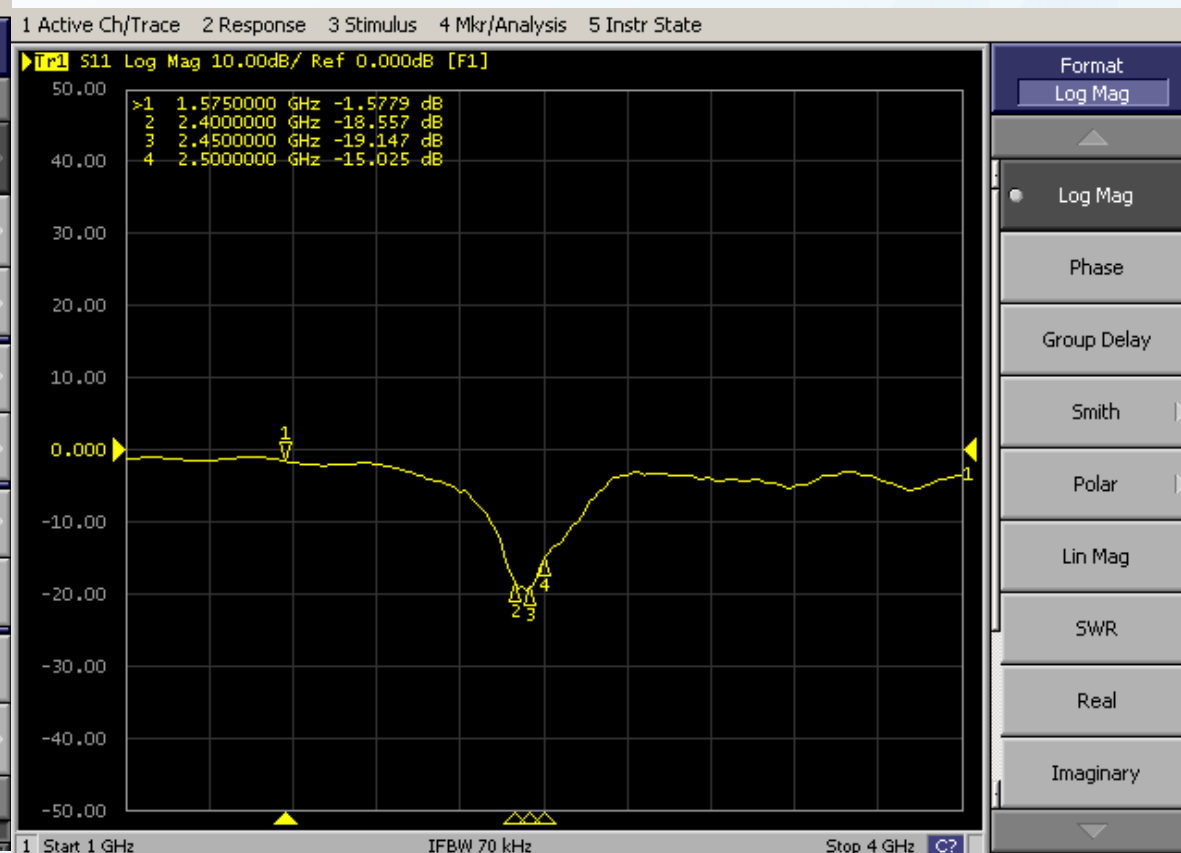
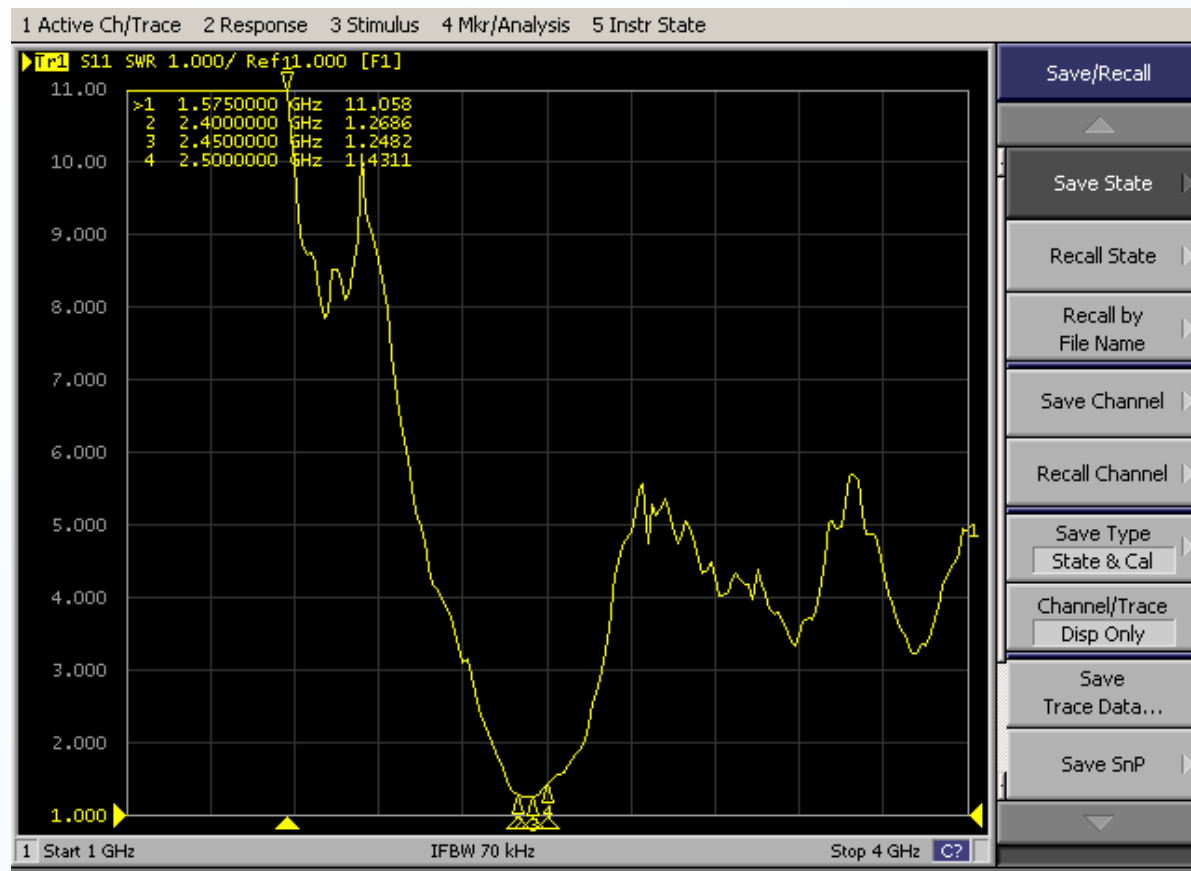
Antenna Tuning Requirements Description

- 01 Machine form:
- 02 Antenna type: Board-mounted antenna
- 03 Number of antennas:1

Operating Band	channel	frequency
WIFI2 .4	1	2.4G-2 .5G
	6	
	11	

Antenna Passive Test Parameters----S11

Standing wave
pattern



Standing wave
pattern state

Standing wave
return loss
condition

Antenna Passive Test Parameters----S11 Antenna Passive Test Parameters

Passive Data

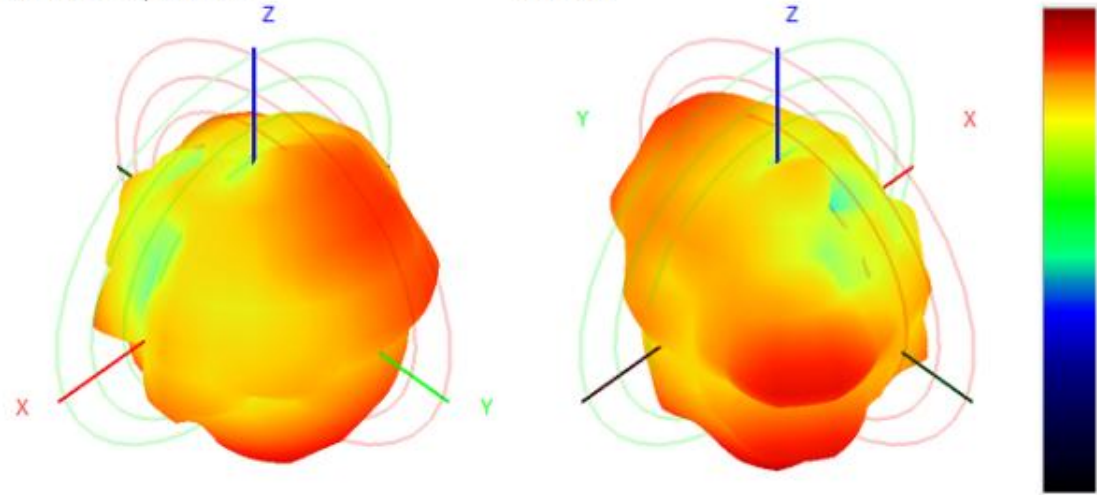
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.00	2.69	50.13
2410.0	-2.83	2.61	52.17
2420.0	-2.55	2.65	55.57
2430.0	-2.74	2.64	53.19
2440.0	-2.65	2.63	54.28
2450.0	-2.76	2.61	52.97
2460.0	-2.61	2.70	54.89
2470.0	-2.35	2.68	58.25
2480.0	-2.23	2.64	59.79
2490.0	-2.45	2.70	56.95
2500.0	-2.55	2.58	55.63

Antenna passive test parameters — S11 2D/3D field pattern plots

Passive Data

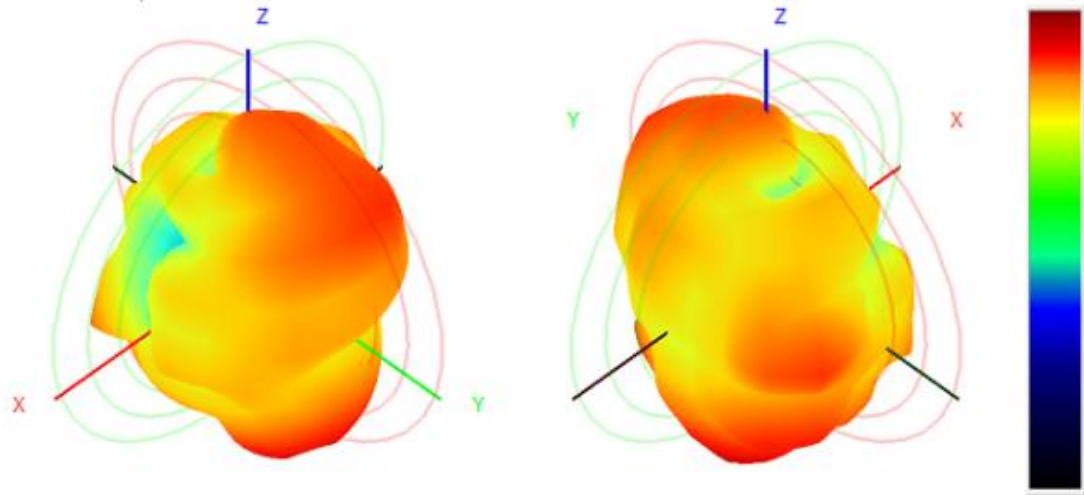
2400.0MHz H+V, Eff: 50.1%

Back View



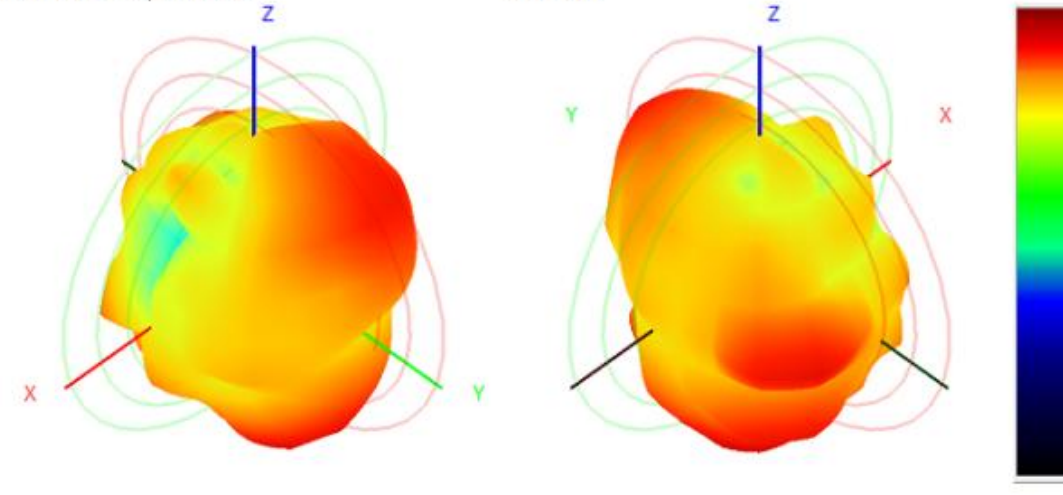
2500.0MHz H+V, Eff: 55.6%

Back View



2450.0MHz H+V, Eff: 53.0%

Back View



Thank you for watching!

THANKS!



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