

SRF20231914

Antenna Test Report

Add : No. 326, Sec. 2, Gongdao 5th Rd., East Dist.,
Hsinchu City 300042 , Taiwan (R.O.C.)

*Version: **V 1.01***

*Released Date: **2023/12/07***

Prepared By: Leo

*Reviewed By: **Stone***

Contents

- Revised History
- Specification
- Antenna Placement & Solution
- Test Setup for S-parameter Measurement
- Return Loss Results
- Test Setup for Radiation Pattern Measurement
- 2D Radiation Pattern Results
- Results Summary (return loss, peak gain, efficiency)

Revision History

Released Date	Version	Record
2023/12/07	1.01	Antenna Testing Report

Specification

Requirements of Antenna Design

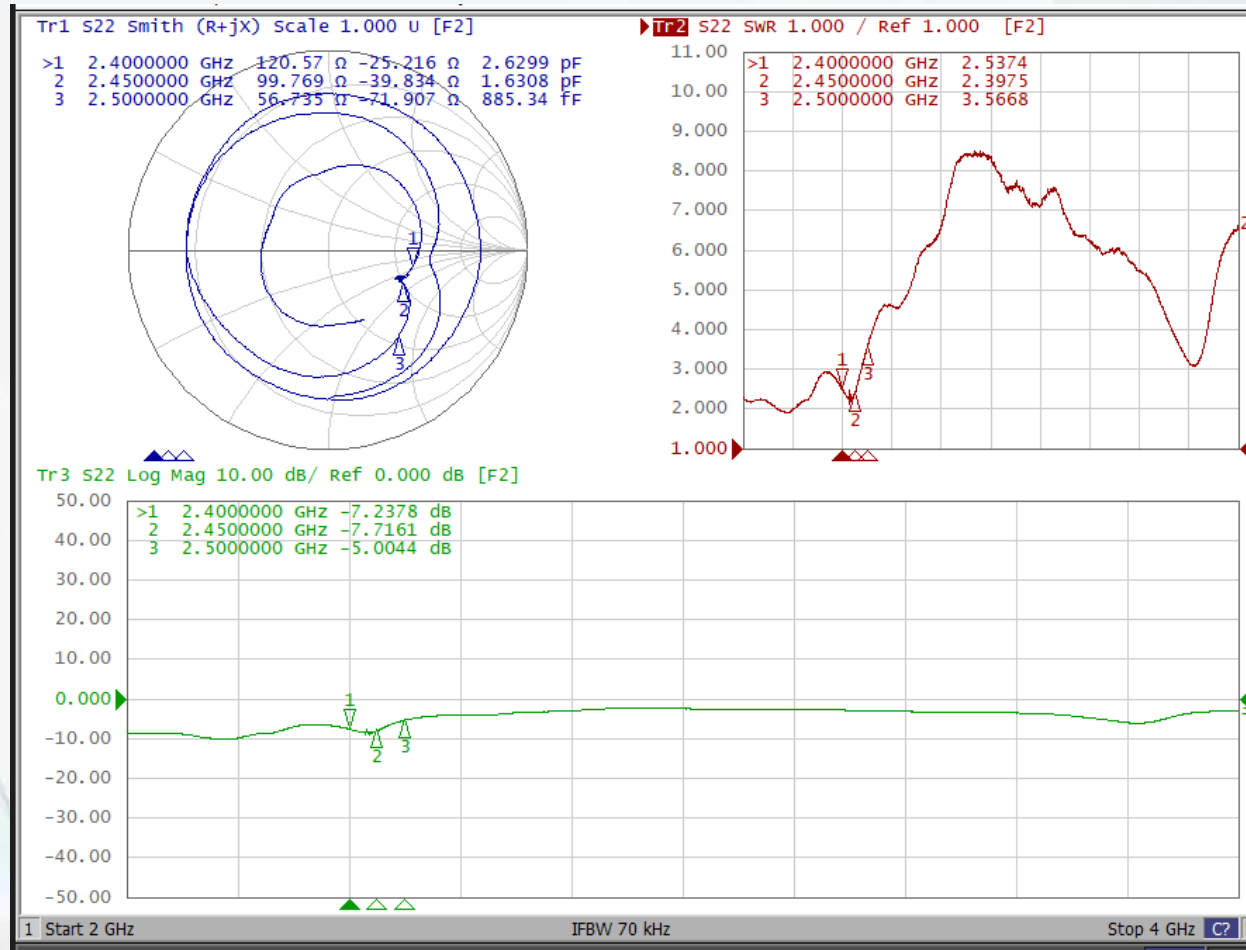
RF Function	Number of ANT	Frequency Band	Remark
WLAN 2.4G		2400~2500 MHz	

Requirements of Measurement

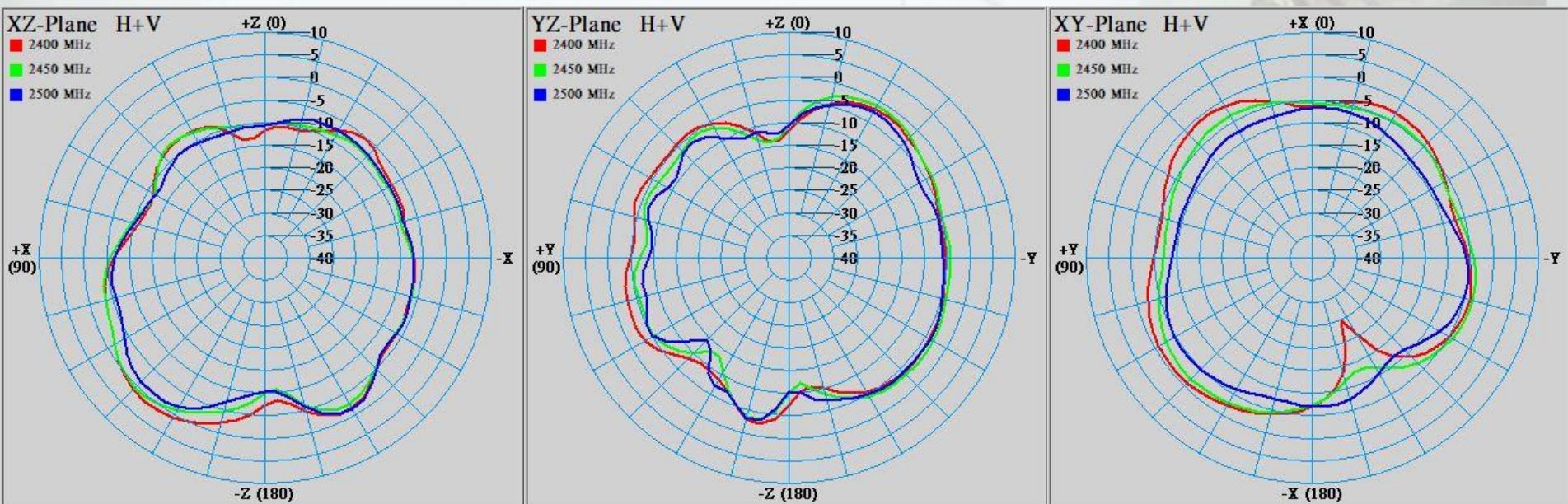
Test Item	Specification	Remark
Return Loss	<7dB	
Peak Gain	<1.5dBi	
Efficiency	>22%	
Radiation pattern	Scale: +10 ~ -40dBi, Angle step size: 5 degree	

Return Loss Results

Antenna (Criterion:>10 dB)



2D Radiation Pattern Results



Results Summary

Return Loss (Criterion: 10dB)

Frequency (MHz)	Antenna
2400	7
2450	7
2500	5

Results Summary

Peak gain & Efficiency

Frequency (MHz)	3D Peak Gain (dBi)	Efficiency (%)
2400	1.5	38
2450	0.7	32
2500	-1.1	22

