



LITEON

Antenna Report

Brand:ESPRESSIF

Model Name: ESP32-S3-WROOM-2

Address: #304, Block 2, 690 Bibo Road, Zhangjiang High-Tech Park, Shanghai, China

George

2022/10/06

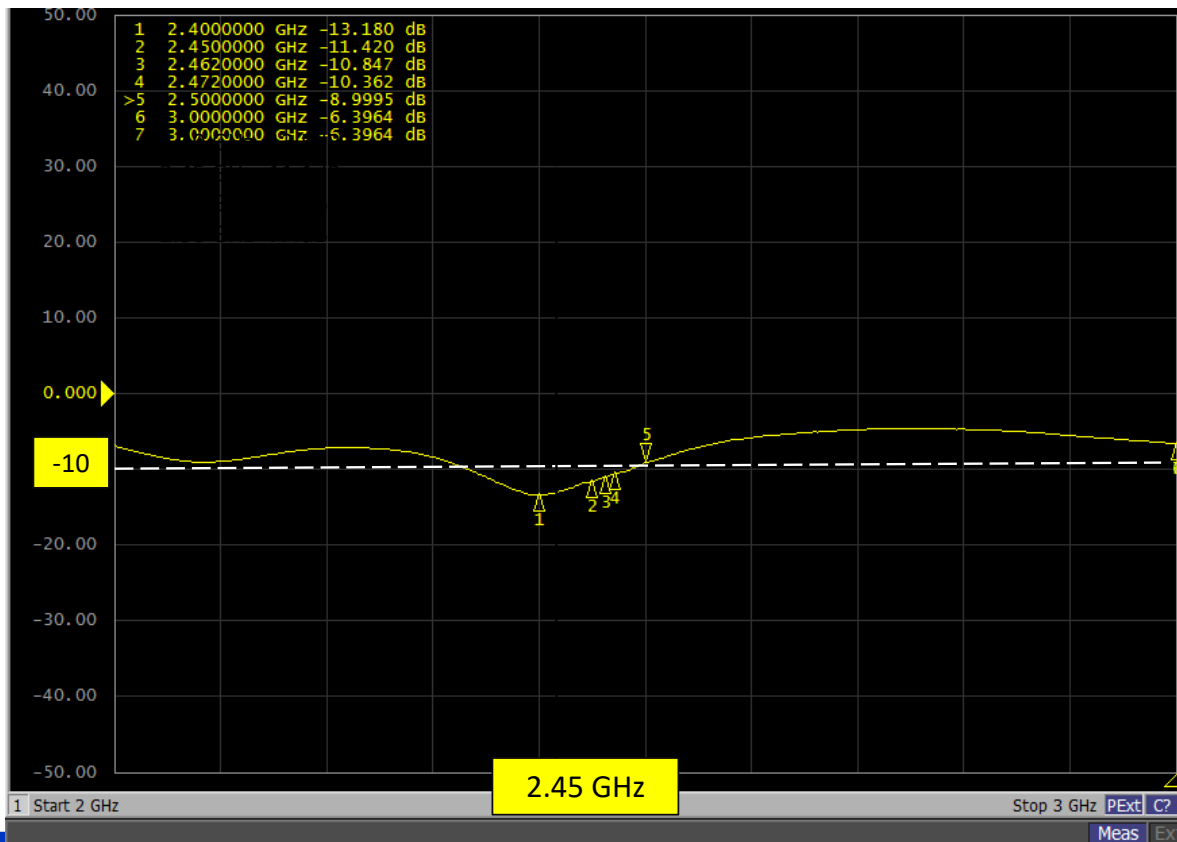
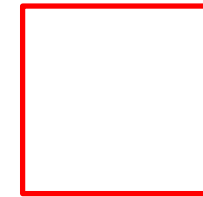
Outline

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- Realistic Results
- Table & Summary

10/06 Realistic Return Loss

- Same Ant at the modified device condition, add shielding.
- The realistic S11 frequency offset toward low-band.

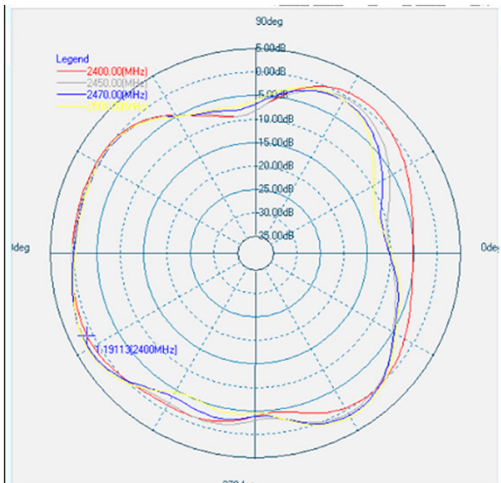


- Condition with shielding

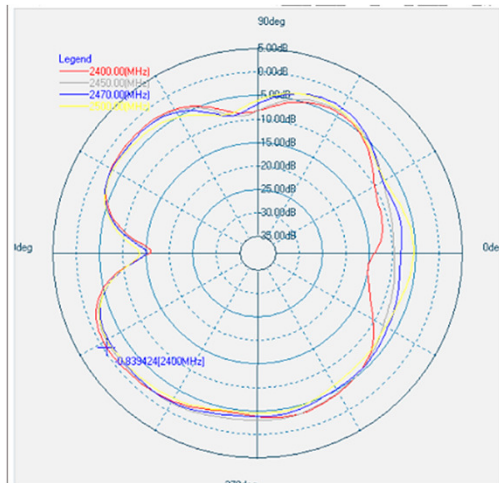
Frequency (GHz)	Return Loss (dB)
2.40 GHz	-13.1dB
2.45 GHz	-11.4dB
2.47 GHz	-10.8dB
2.50 GHz	-10.3dB

Environment Setup & Radiation

2.45GHz XY Plane



2.45GHz YZ Plane



2.45GHz XZ Plane

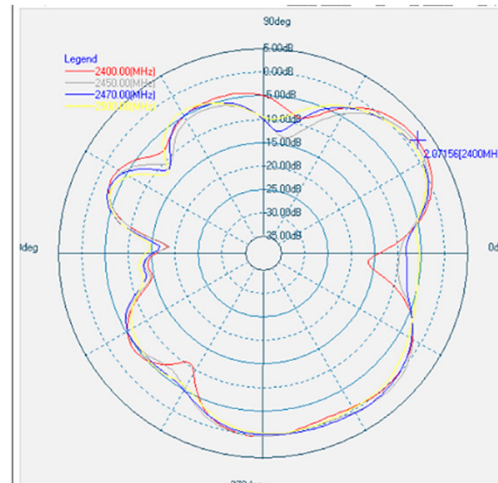


Table & Summary

Frequency (GHz)	Realistic Results 10/06	
	Efficiency (%)	Peak Gain (dBi)
2.40 GHz	63%	2.4dBi
2.45 GHz	61%	2.1dBi
2.47 GHz	59%	2.2dBi
2.50 GHz	57%	2.3dBi