

PSA

PASSIVE SYSTEM ALLIANCE
WALSIN TECHNOLOGY CORPORATION

ailinkiot_Module A-2.7nH

Presented by

TIAN

Walsin Technology Corporation

2019/04/02

Version	Date	Description	Author
V01	2019/04/02	New Release	TIAN

OUTLINE

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1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 Return Loss

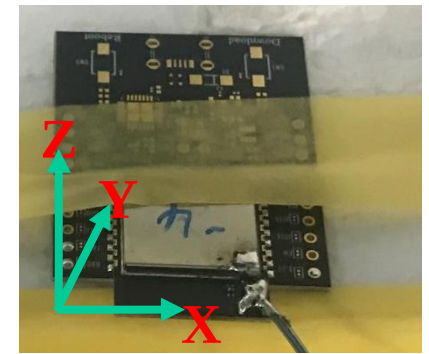
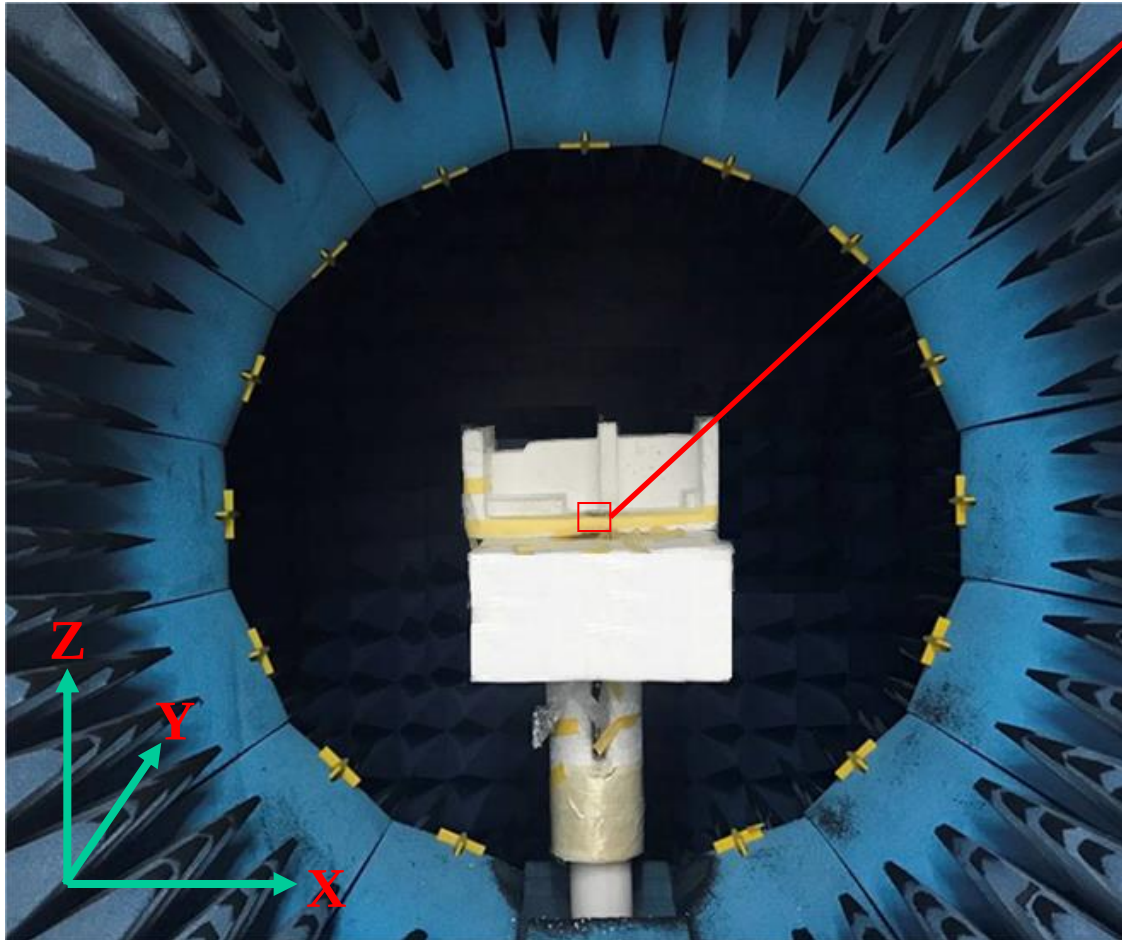
2.2 Antenna Efficiency and Peak Gain

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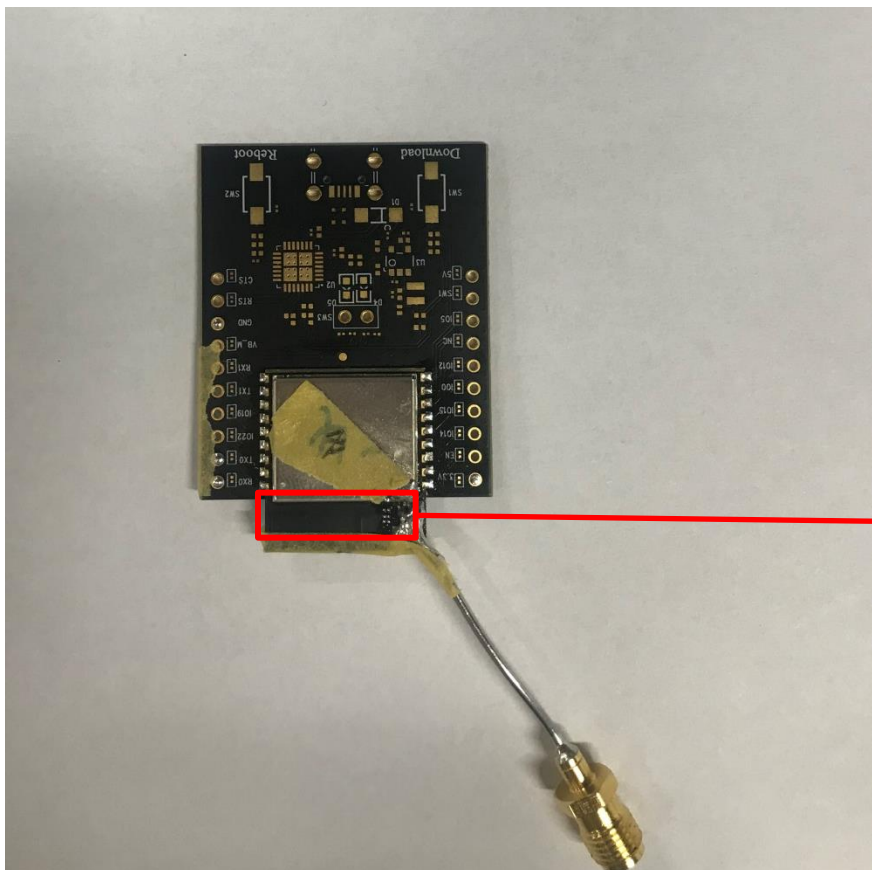
1. Measurement Information

1.1 Experimental Setup

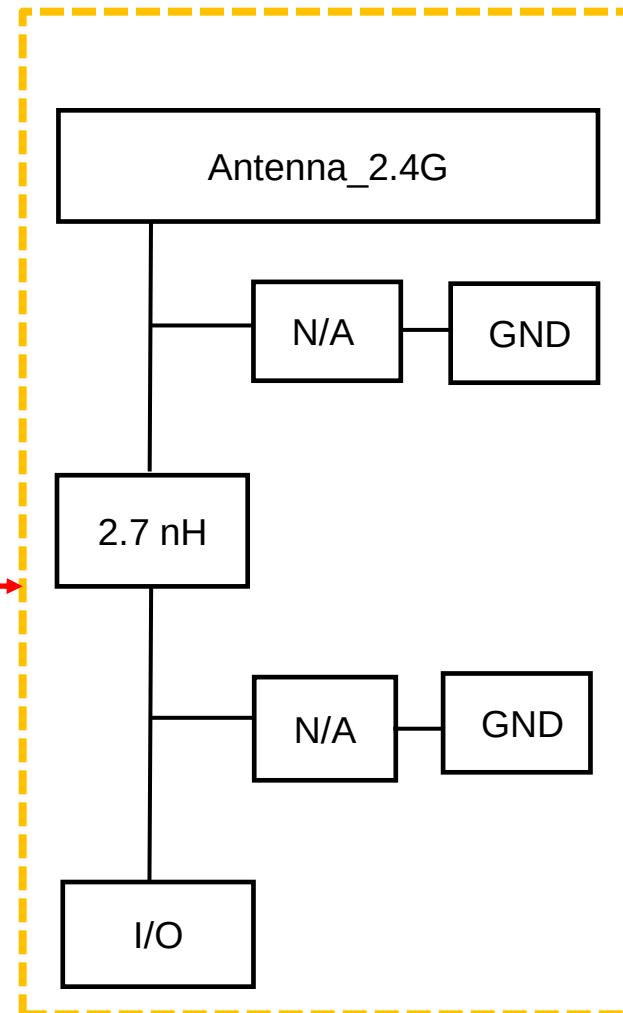


1. Measurement Information

1.2 Antenna Solution Detail

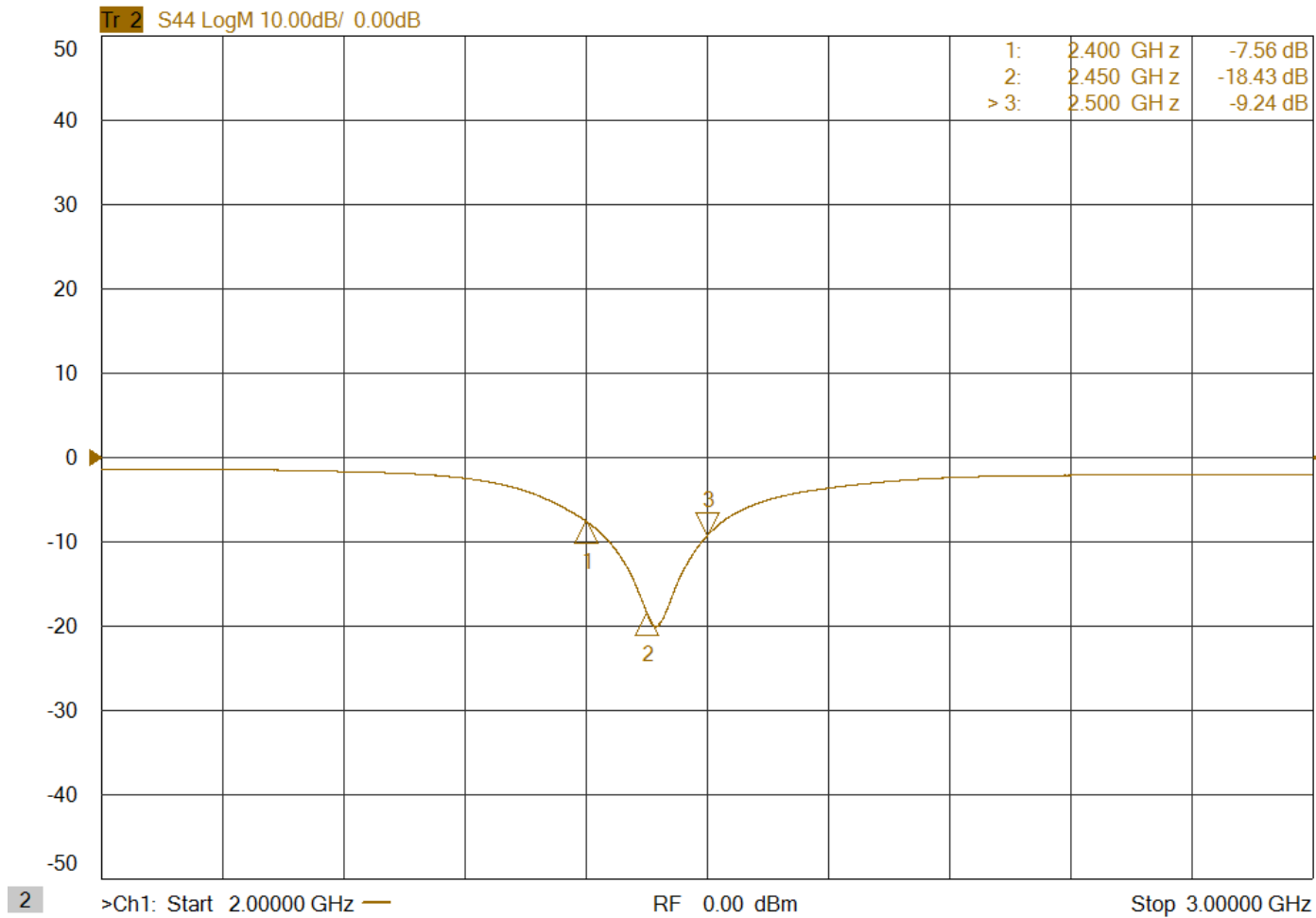


Matching values



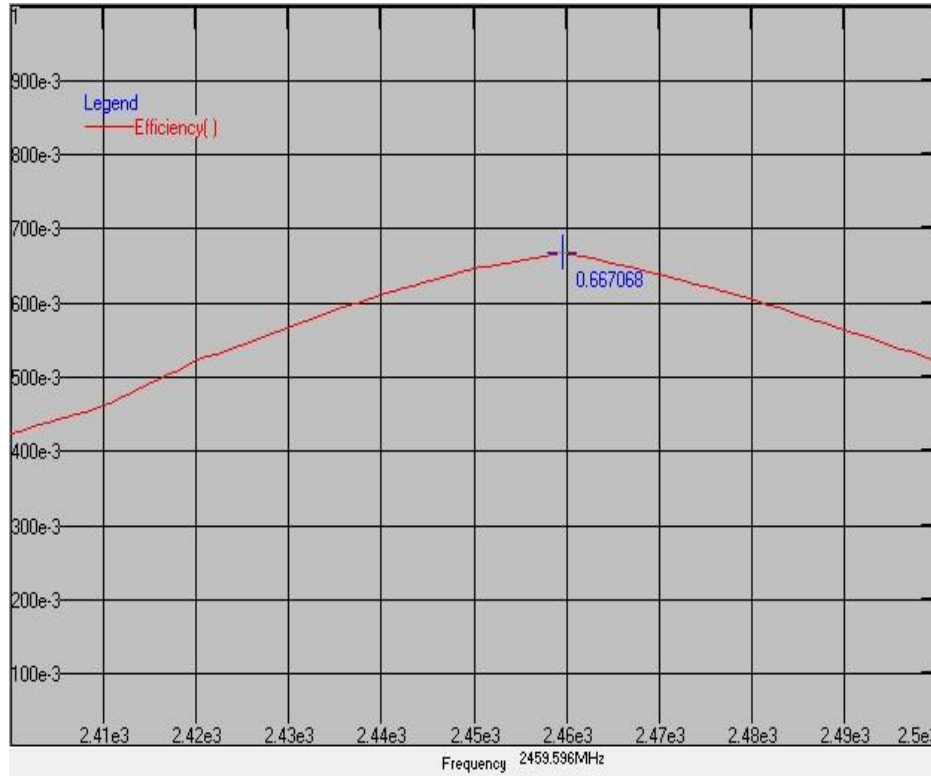
2. Antenna Characteristics

2.1 Return Loss

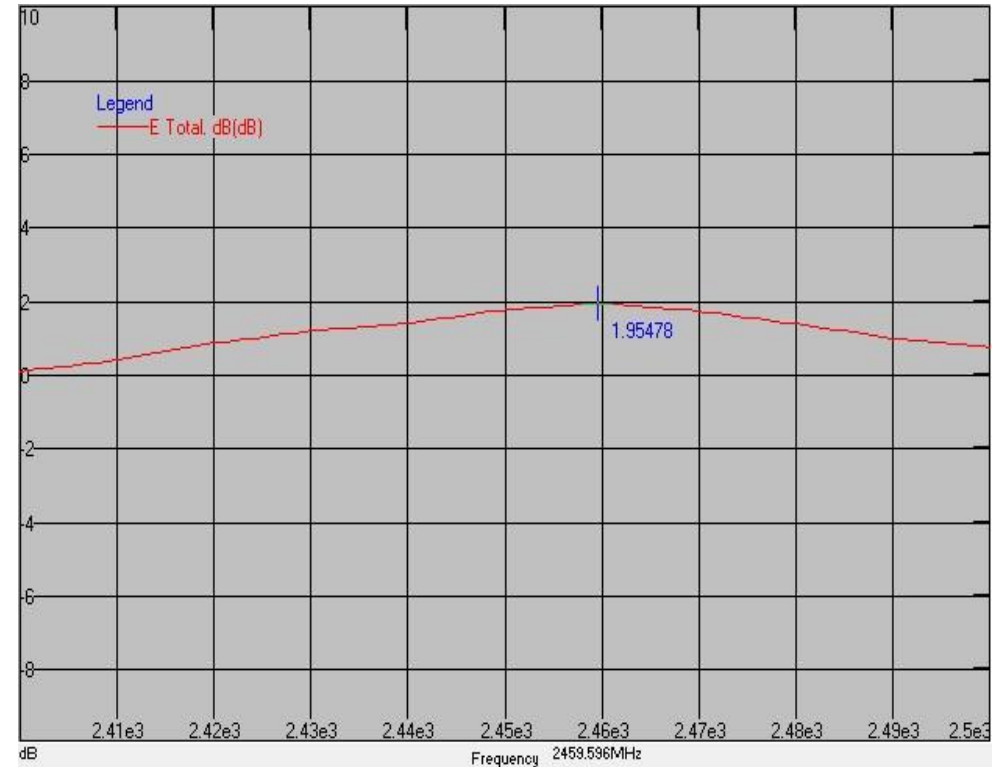


2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2459 MHz : 66.71 %

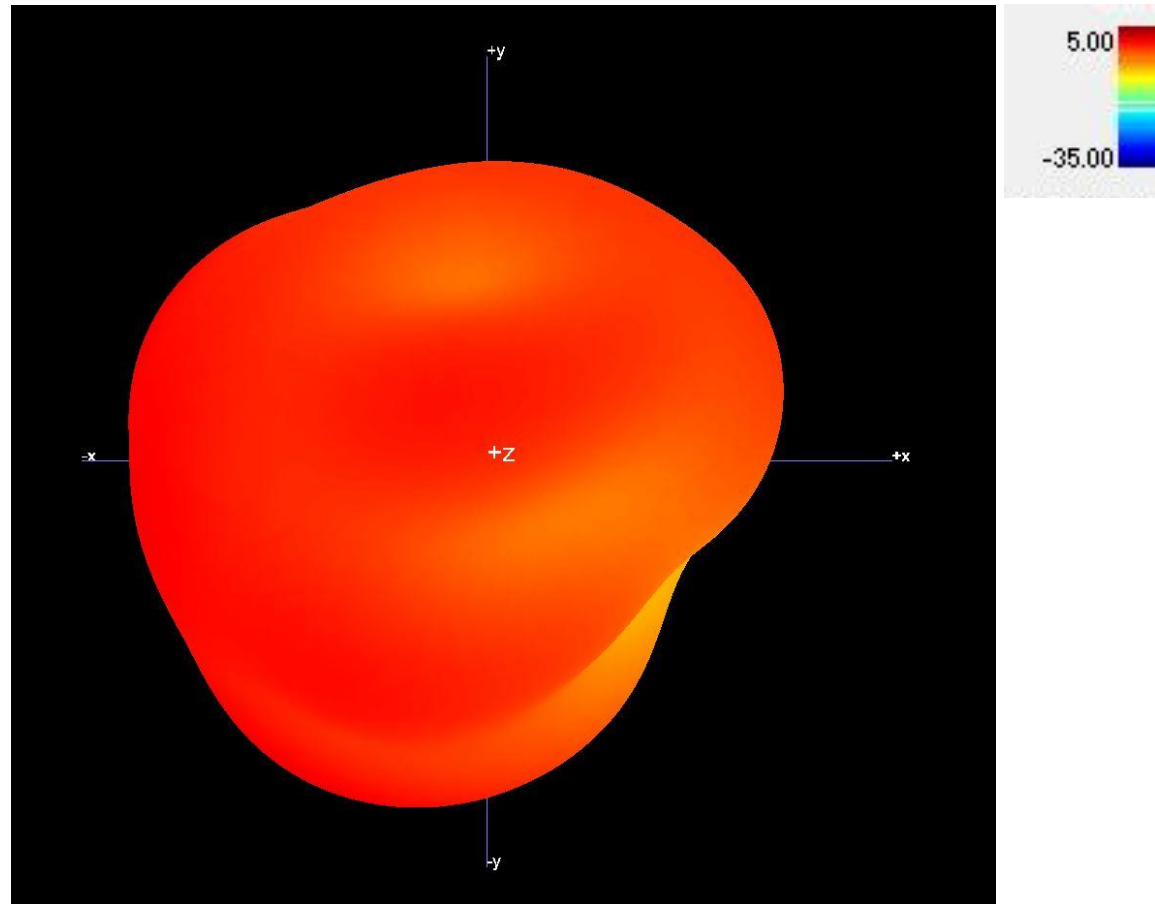


Maximum Peak Gain at 2459 MHz : 1.95 dBi

1. Measurement Information

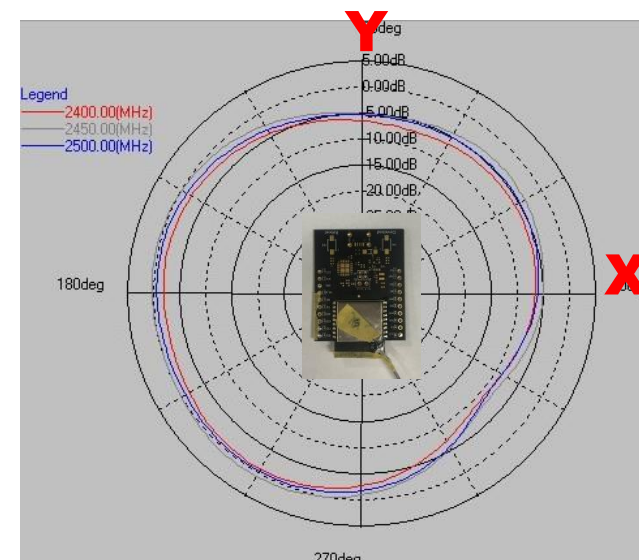
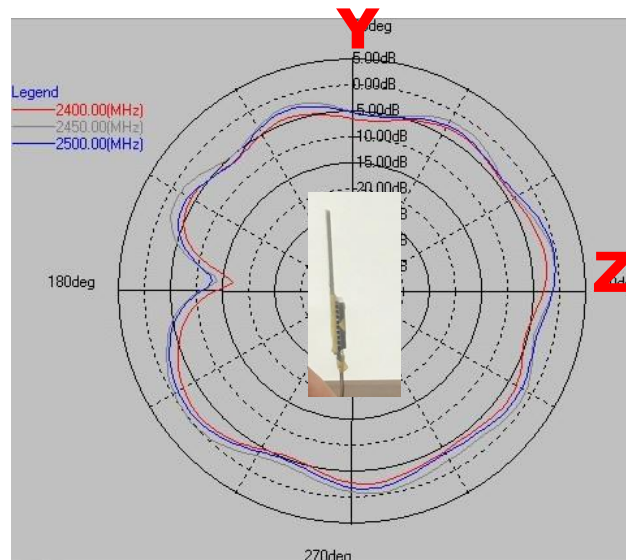
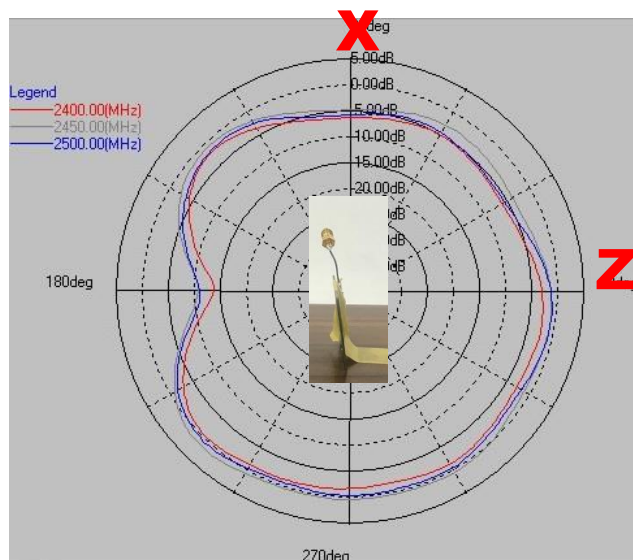
2.3 3D Pattern

2450 MHz



2. Antenna Characteristics

2.3 2D Radiation Patterns



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-0.51	-3.58	-1.92	-4.33	-0.90	-3.97
2450	1.52	-1.70	0.05	-2.60	0.72	-2.10
2500	0.50	-2.56	-0.42	-3.30	-0.43	-3.04

2. Antenna Characteristics

2.4 Summary Table

Antenna_2.4G			
Frequency(MHz)	2400	2450	2500
Peak gain(dBi)	0.11	1.79	0.76
Efficiency(%)	42.41	64.67	52.22

Thank you

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