
Antenna Report

2025/3/5

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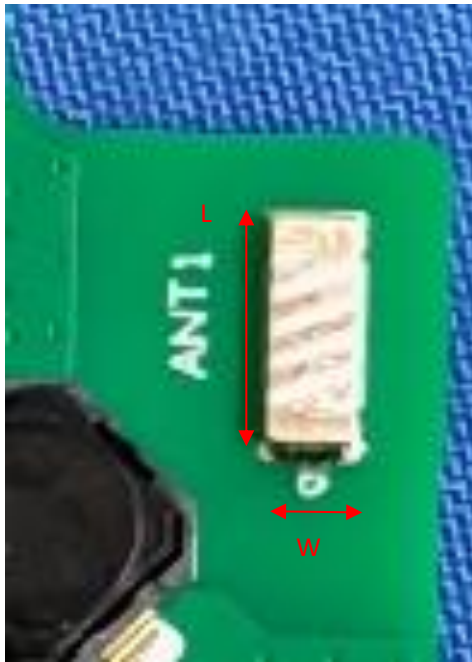
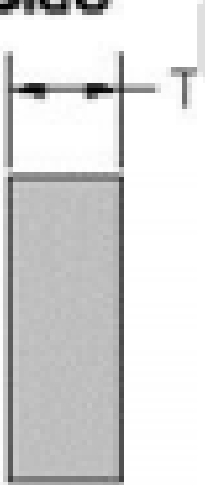
1 Specification

Specification	
P/N	
Frequency	2400~2500MHz
Antenna Type	chip antenna
Dimension	5mm*2mm
Impedance	50Ω
Polarization	Linear
VSWR	<3
Axial Ratio	Not involved
Efficiency	17.85%~23.15%@2.4~2.5GHz
Gain	-0.216dBi
Radiation Pattern	Omnidirectional
Connection	Not involved
Power Handling	1W

2 Antenna Dimension

T=0.5mm L=5mm W=2mm

Side



3 Picture



4 Electrical Test

4.1 Method

Name	Parameter	Method	Standard no.
Mobile Communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

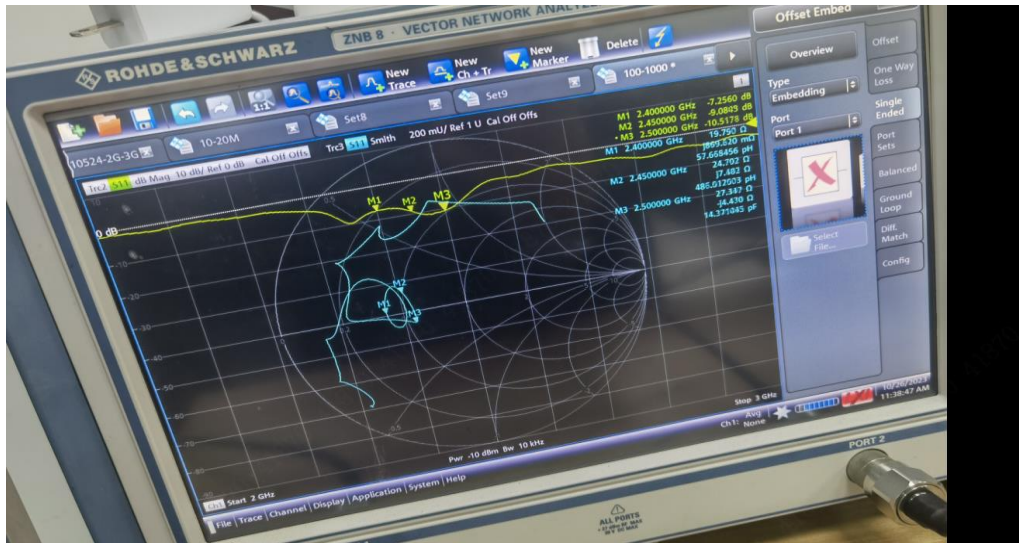
4.2 Device

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Rohde & Schwarz	ZNB 8	1311.6010K44-103942-aM	2024.05.10	2025.05.09

4.3 Passive Test

4.3.1 Position

4.3.2 Return Loss & VSWR

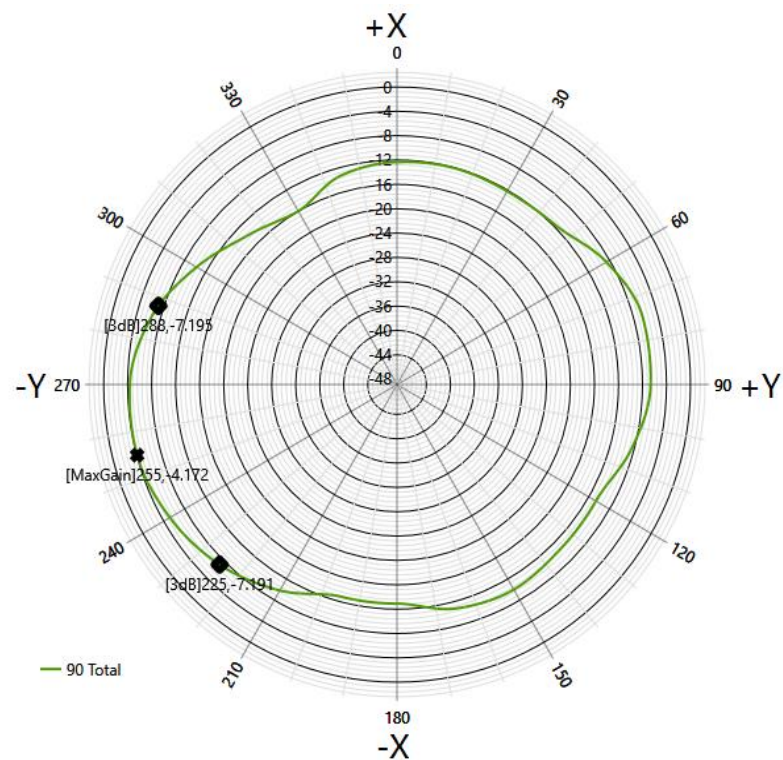


Frequency(MHz)	2400	2450	2500
Return Loss(dB)	-7.2	-9.0	-10.5

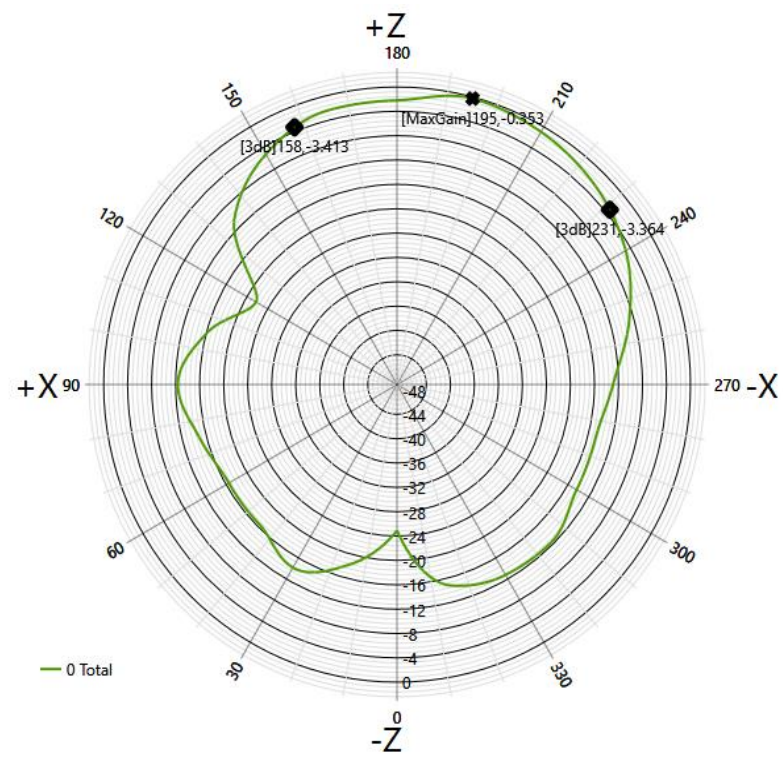
4.3.3 Efficiency & Gain

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-8.319	19.73%	-1.433
2410	-8.43	18.36%	-1.374
2420	-8	17.85%	-1.833
2430	-7.324	20.52%	-0.939
2440	-6.869	20.56%	-0.216
2450	-7.186	19.12%	-0.342
2460	-7.327	18.51%	-0.415
2470	-6.807	20.86%	0.185
2480	-6.355	23.15%	0.727
2490	-6.901	20.41%	0.323
2500	-7.127	19.38%	0.077

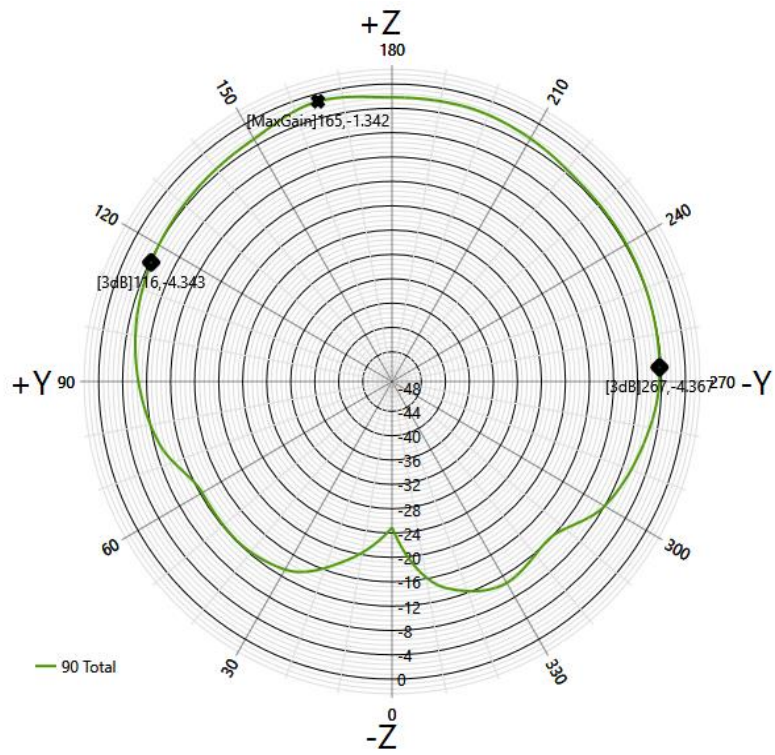
4.3.4 2D Report



2450MHz 90 Total(H-XY)

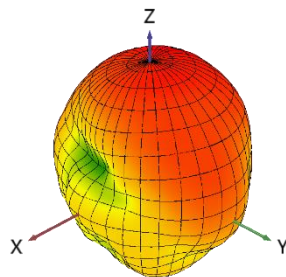


2450MHz 0 Total(E1-XZ),

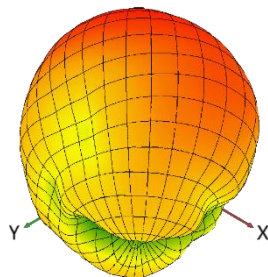


2450MHz 90 Total(E2-YZ)

4.3.5 3D Report



2450MHz 3D Front



2450MHz 3D Back