Antenna Specification

Applicant：Hangzhou Shunli Optotech Co., Ltd.
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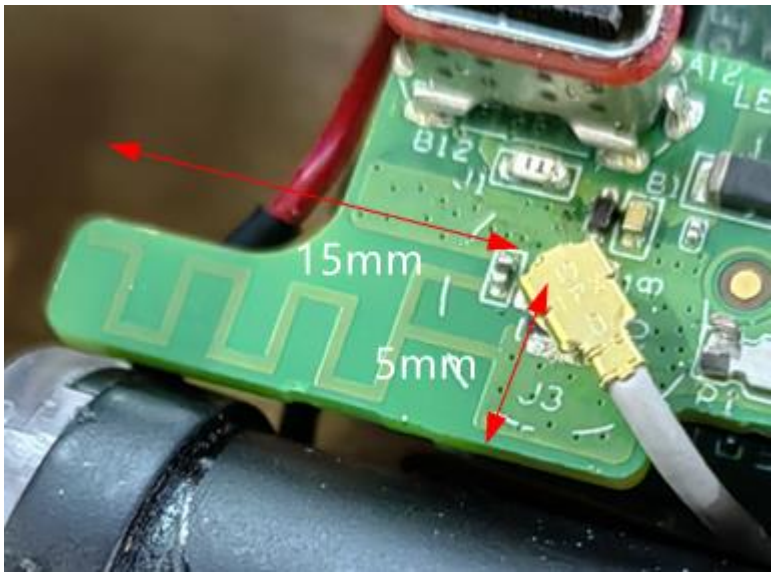
Contents

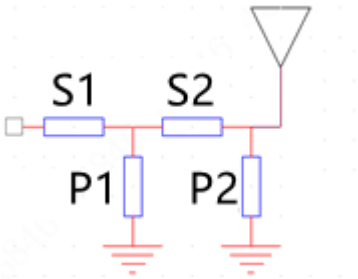
1 Specification

Specification	
P/N	
Frequency	2400~2500MHz
Antenna Type	IFA
Dimension	15mm*5mm
Impedance	50Ω
Polarization	Linear
VSWR	<3
Axial Ratio	Not involved
Efficiency	6~9%@2.4~2.5GHz
Gain	-5.6dBi@2400MHz
Radiation Pattern	Omnidirectional
Connection	Not involved
Power Handling	1W

2 Antenna Dimension

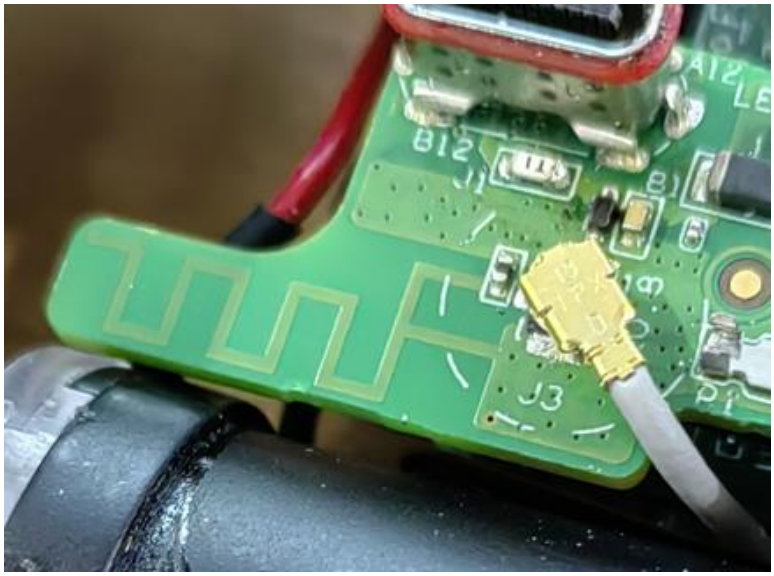


Matching Circuit



S1	0 Ω
P1	1.2pF
S2	1.5nH
P2	NC

3 Picture



4 Electrical Test

4.1 Method

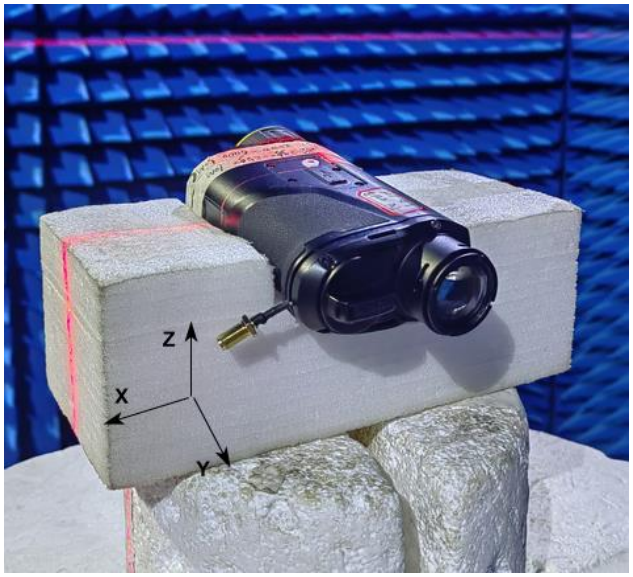
Name	Parameter	Method	Standard no.
Mobile Communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

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



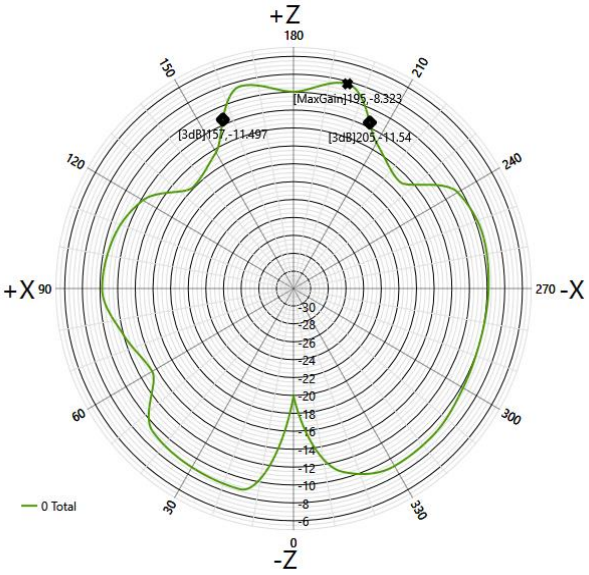
4.3.2 Return Loss & VSWR

Frequency(MHz)	2400	2450	2500
Return Loss(dB)	-6.56	-12.84	-15.4

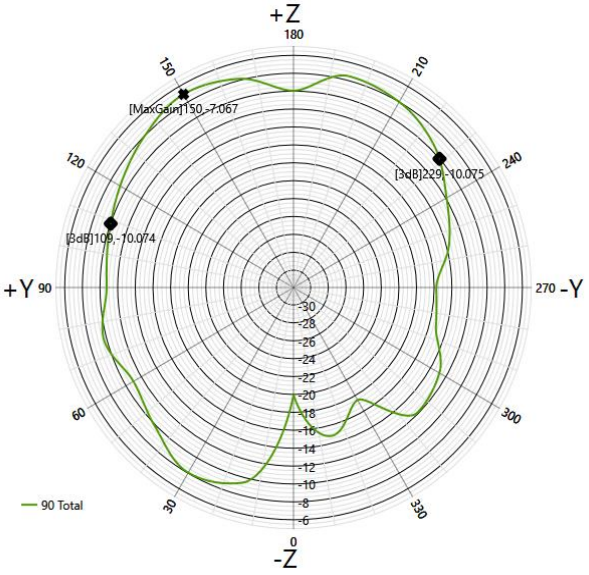
4.3.3 Efficiency & Gain

Freq./MHz	Effi./%	Effi./dB	Gain/dBi
2400	-10.361	9.20%	-5.609
2410	-10.317	9.30%	-6.072
2420	-10.547	8.82%	-6.983
2430	-10.703	8.51%	-7.313
2440	-10.499	8.92%	-6.919
2450	-10.768	8.38%	-7.067
2460	-11.137	7.70%	-7.287
2470	-11.43	7.20%	-7.365
2480	-11.922	6.42%	-7.65
2490	-11.638	6.86%	-7.434
2500	-12.317	5.87%	-8.222

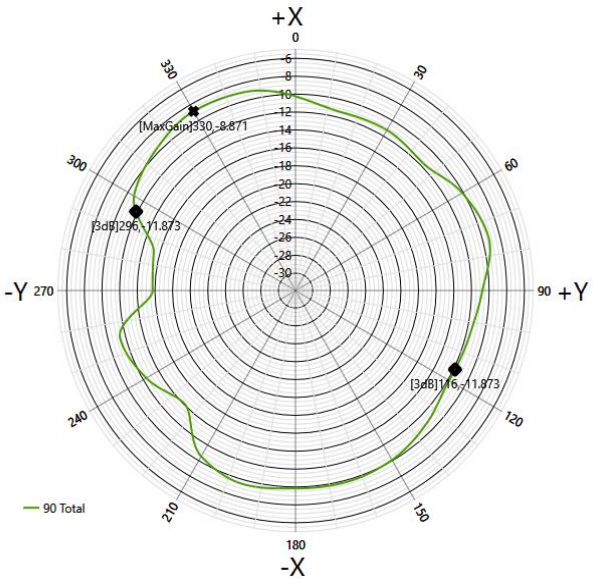
4.3.4 2D Report



2450MHz 90 Total(H-XY)

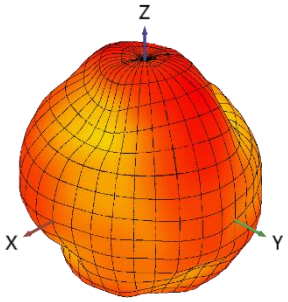


2450MHz 0 Total(E1-XZ),

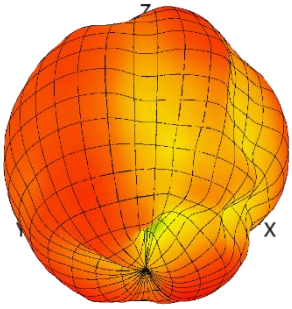


2450MHz 90 Total(E2-YZ)

4.3.5 3D Report



2450MHz 3D Front



2450MHz 3D Back