

ANTENNA SPECIFICATION

Client:	Avantree
Model:	SP402
Antenna type:	PCBA antenna
Version:	V1.0
Issued Date:	11-Feb-25

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1.Revision History

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SUNITEC ENTERPRISE CO.,LTD.

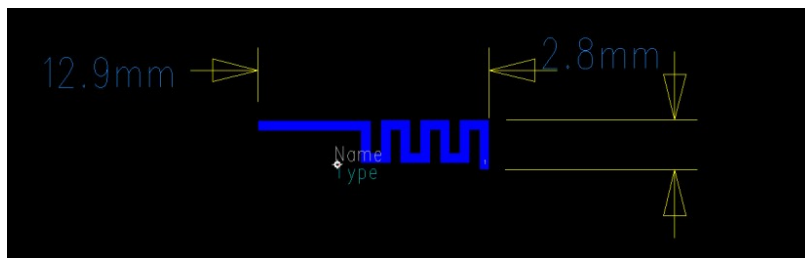
Rev.No	Issued Date	Description	Summary
V1.0	11-Feb-25	initial release	

2. Introduction

2.1 Introduction of Product

This product is print Bluetooth antenna on PCB

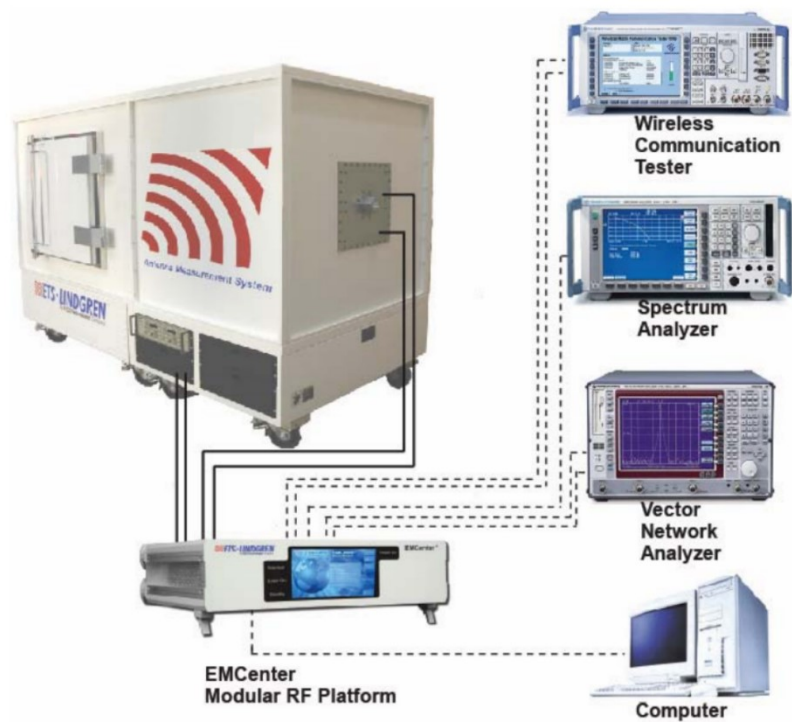
2.2 Specification and Dimension



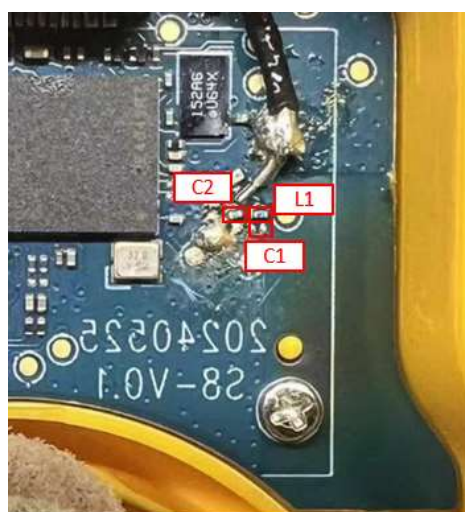
3. Electrical Characteristics

3.1 Test equipment:

VECTOR NETWORK ANALYZER
Agilent E5071c
Antenna Measurement System
ETS-Lindgren Antenna Measurement System



3.2 Antenna S11 parameters



ANT matching:

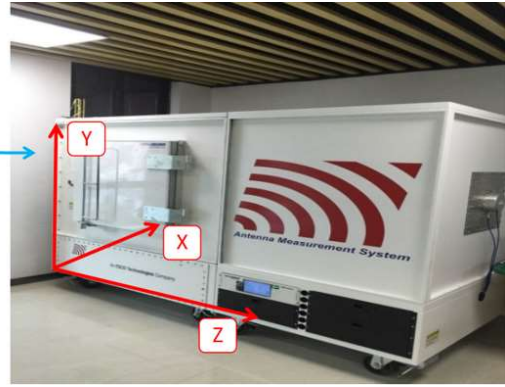
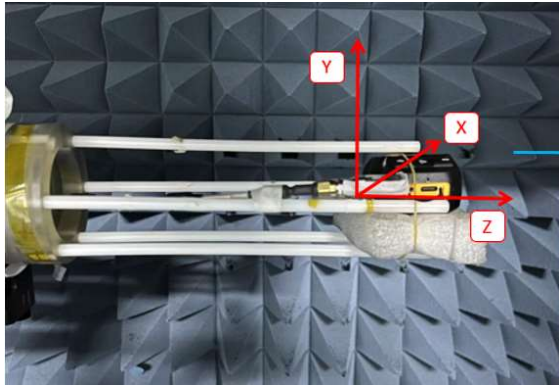
位号	匹配值
C1	NA
L1	3nH
C2	1.8pF

3.3 Antenna Test Settings:

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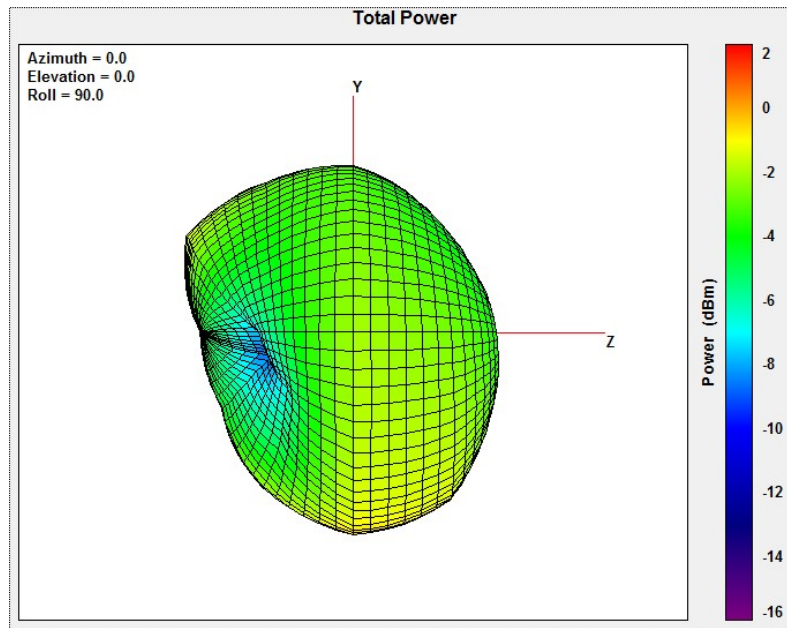


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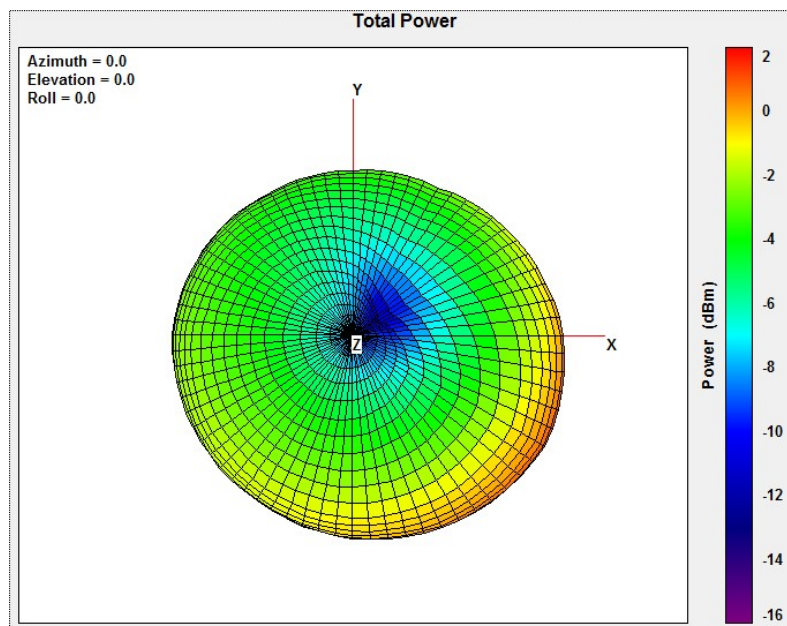


3.4 3D Radiation Pattern :

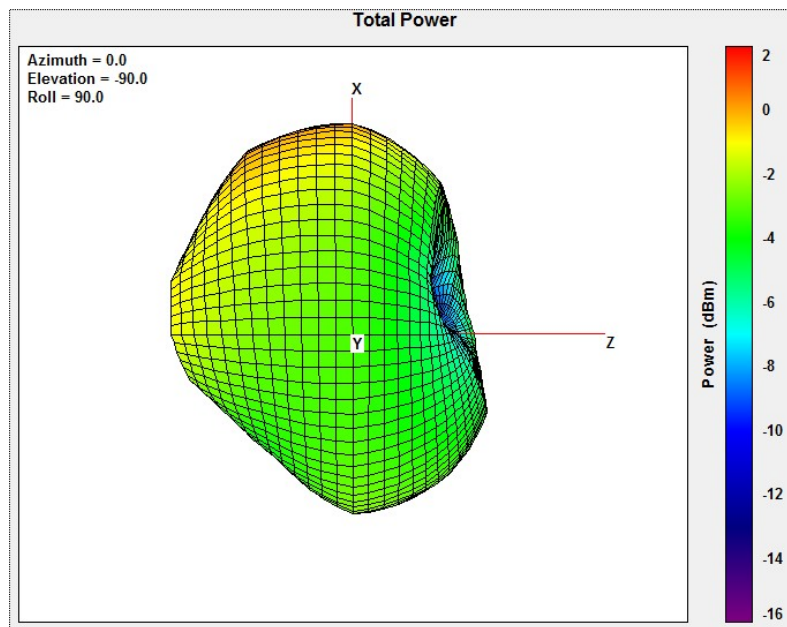
2441MHz--YZ



2441MHz--YX



2441MHz--XZ



3.5 Electrical Characteristics:

Antenna Model Name	chip antenna
Working Frequency Range	2450+/-50MHz
Impedance	50Ω
Max Efficiency(%)	57.7%@2450MHz
Max peak Gain(dBi)	1.36dBi@2450MHz

Frequency(MHz)	Efficiency (%)	Peak Gain (dBi)
2400	56.4	0.84
2440	57.6	1.36
2480	55.1	1.15