



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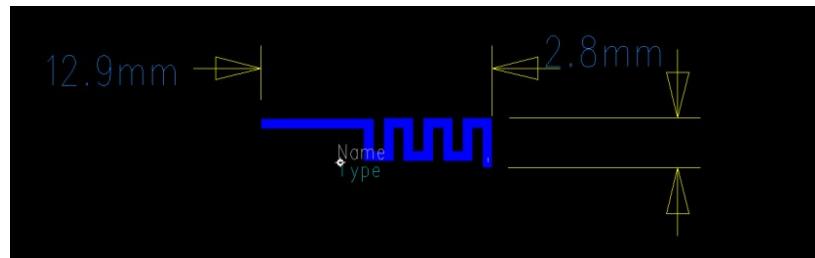
Rev.No	Issued Date	Description	Summary
V1.0	11-Feb-25	initial release	

2. Introduction

2.1 Introduction of Product

This product is print Bluetooth antenna on PCB

2.2 Specification and Dimension



3. Electrical Characteristics

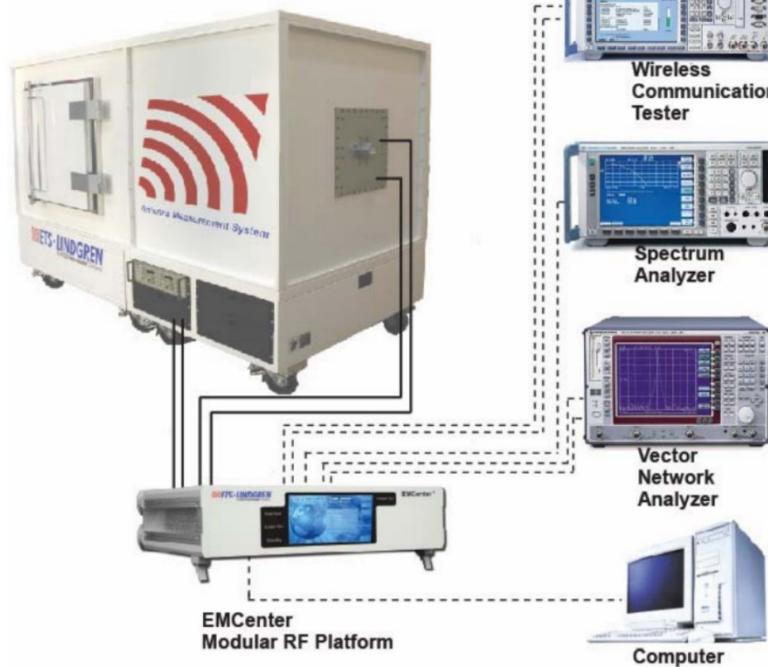
3.1 Test equipment:

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

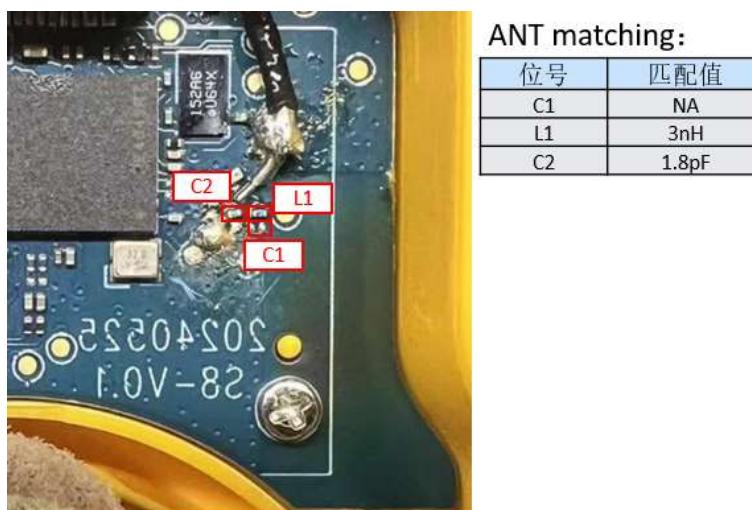
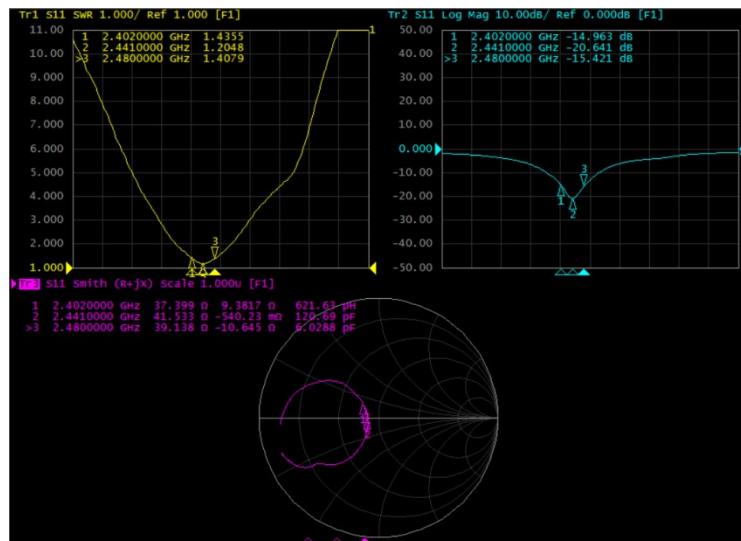
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3.2 Antenna S11 parameters

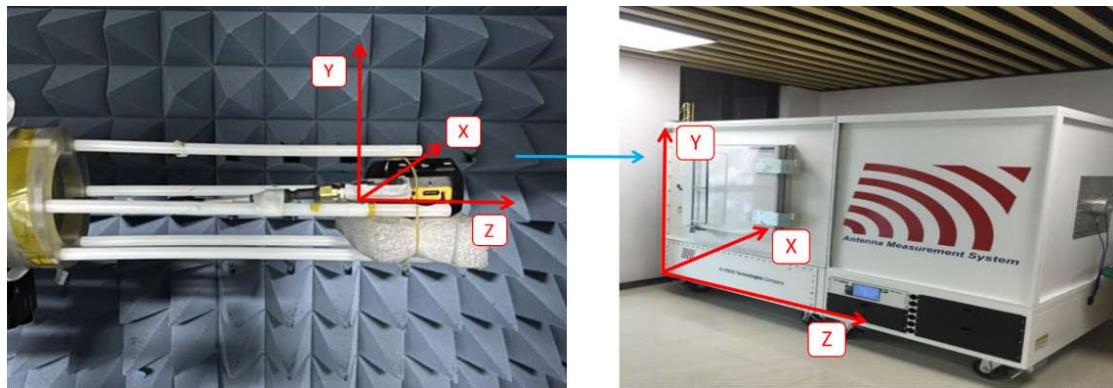


3.3 Antenna Test Settings:

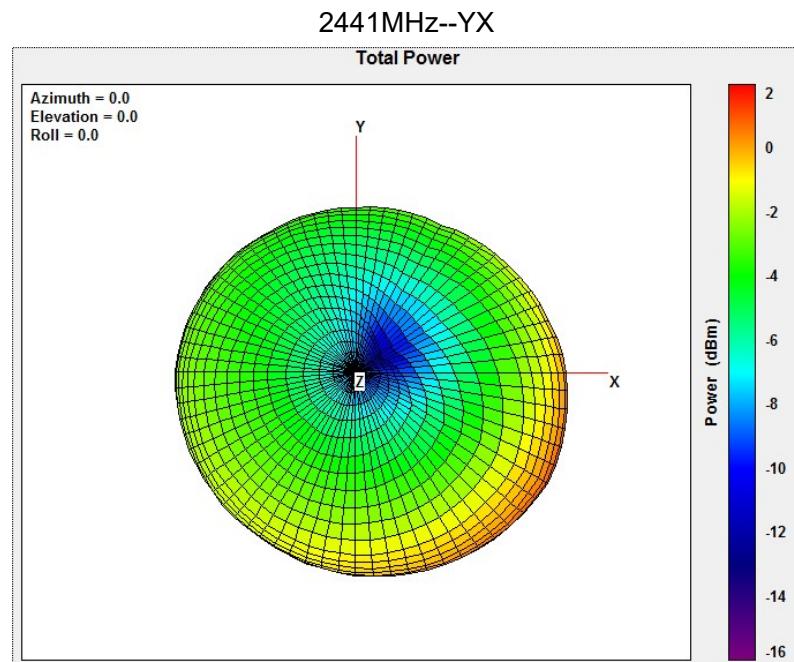
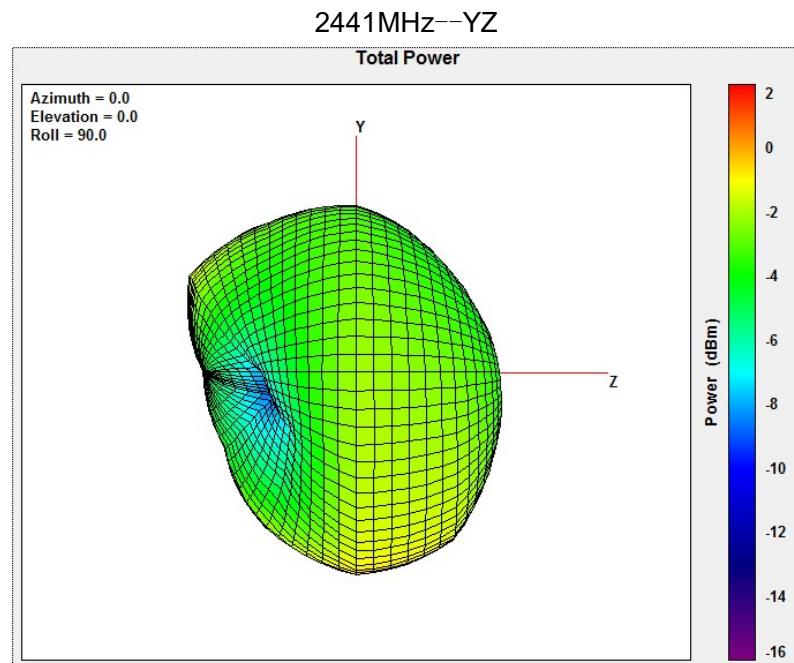
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3.4 3D Radiation Pattern :

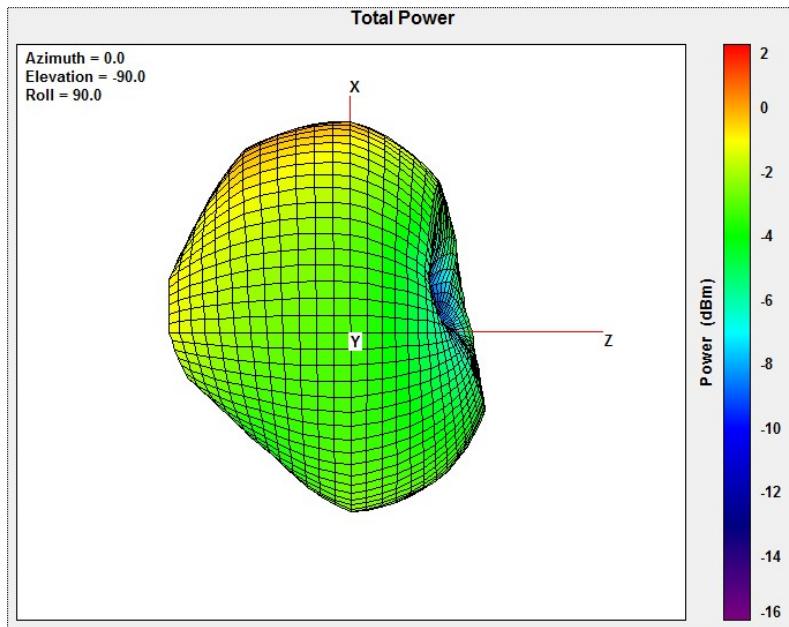


2441MHz--XZ

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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

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