

LYNwave Technology

Antenna & Thermal solution provider

Antenna Field Test Report

Company: Edimax
Project Name: EW-7611BL5(延伸案)
Model Name:
Application: Dongle
Mounting Type:

Date	Owner	Revision	Remark
2024/12/18	Ken	v0.1	1. Antenna passive measurement using Satimo Lab

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Customer Specification

Ant. No.	Type	Function	Operating Freq.	Radiation Pattern	Cable Type	Connector Type
Ant.1	Metal	BT	2400-2500MHz	Omni-directional	NA	NA

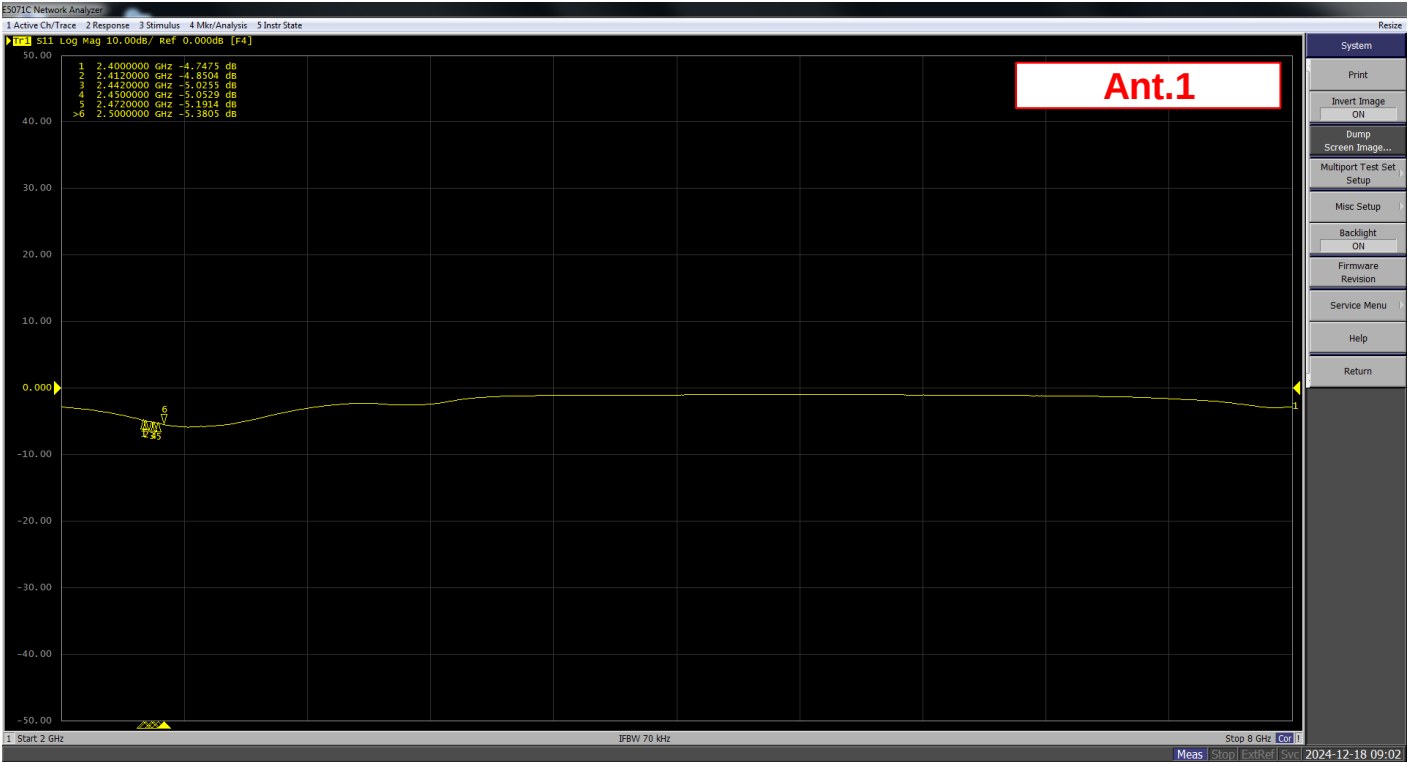
Specification	Return Loss	VSWR	Isolation	Peak Gain	Efficiency
BT	NA	NA	NA	NA	NA

Antenna Placement

No.	Function	Material	Frequency(MHz)
Ant.1	BT	Metal	2400 – 2500



S-Parameters – Ant.1 (BT)



Coordinate Definition

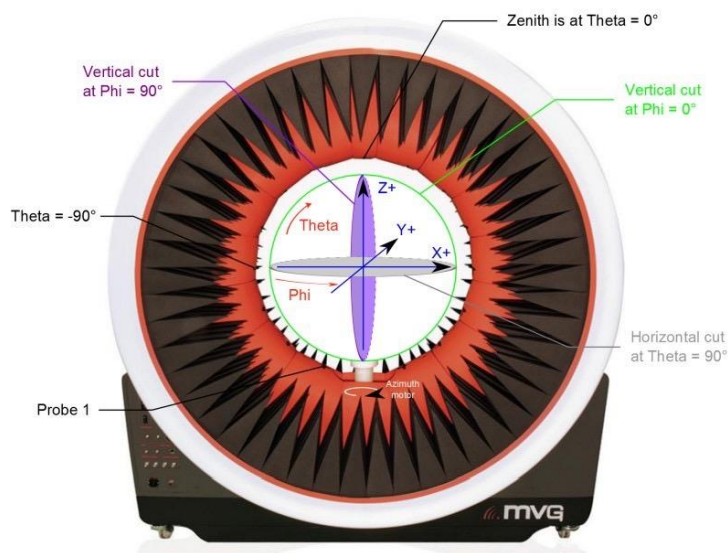
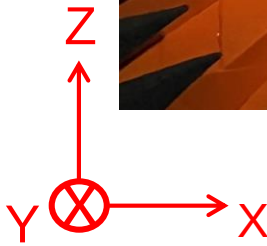
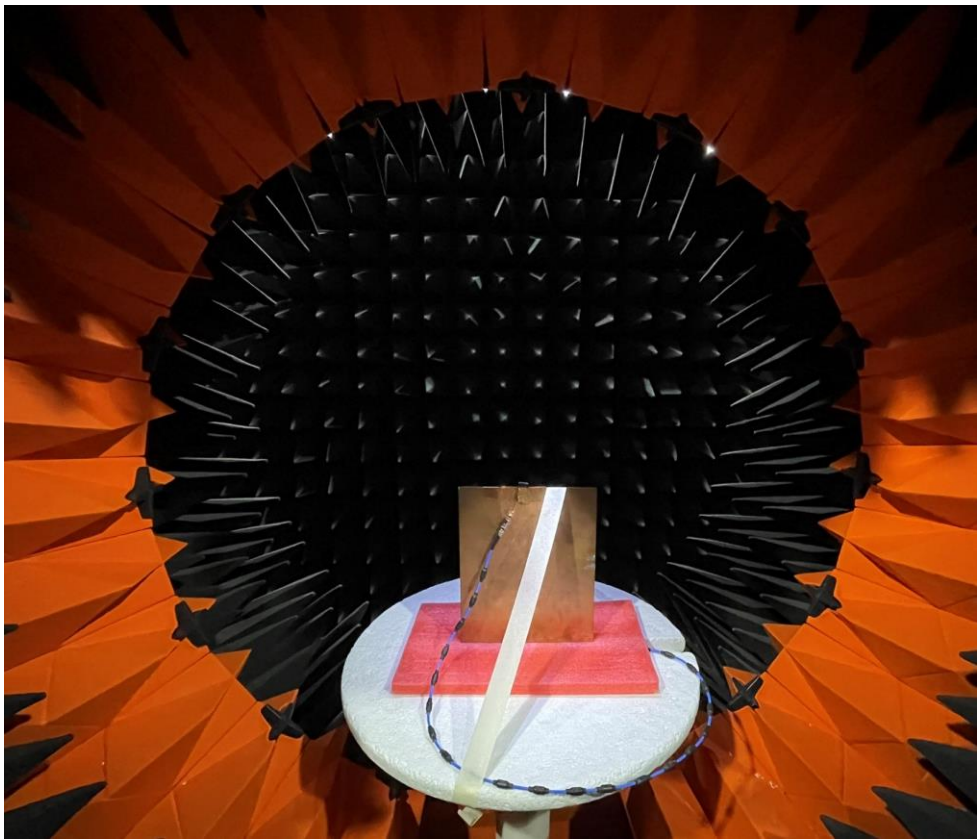


Figure 3.12: StarLab spherical coordinate system



Gain Table

BT	Frequency(MHz)	2400	2412	2442	2450	2472	2500
Ant.1	Peak Gain(dBi)	-2.4	-2.3	-1.9	-2.0	-1.9	-2.0
	Efficiency(%)	20	20	20	20	21	21

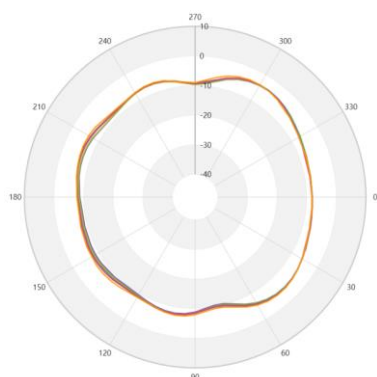
2D Radiation Pattern

Ant.1 (BT)

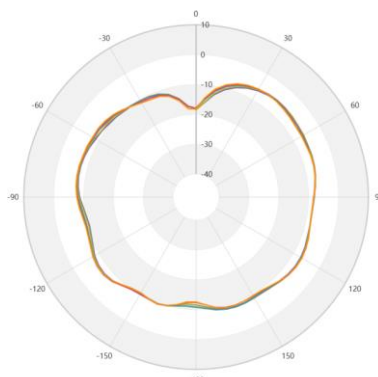
Frequency(MHz) : 2400-2500

Radiation Pattern :

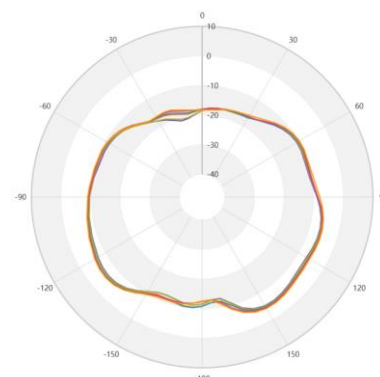
Azimuth Plane
Theta = 90



Elevation Plane
phi = 0

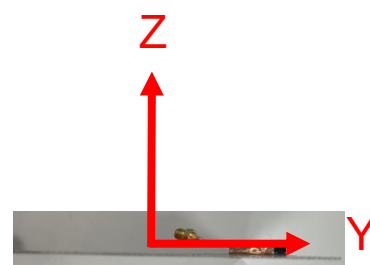
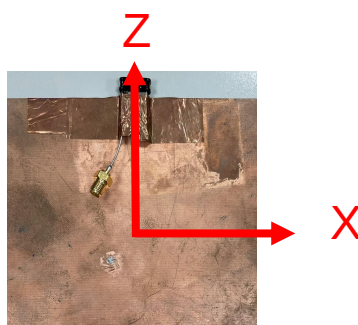
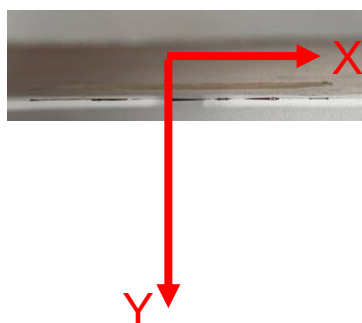


Elevation Plane
phi = 90



— 2400.00 MHz
— 2450.00 MHz
— 2500.00 MHz

Setup :



Summary

Summary	Ant.1	Remark
Return Loss – 2.4GHz	< -4.7dB	
Efficiency – 2.4GHz	> 20%	
Peak Gain – 2.4GHz	-2.4 – -1.9dBi	

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