

APPROVAL SHEET

MODEL : ENHYPEN LIGHT
STICK Ver.2
ANTENNA

Review	Consent	Approval
임현묵	최용하	서재운
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24.07.11	24.07.11	24.07.11

– Table of contents –

- 1. Revision History
- 2. Product Information
 - 2.1 General Features
 - 2.2 Electrical Specifications
- 3. Pattern Specifications
- 4. Matching Network
- 5. Electrical Characteristics
 - 5.1 VSWR
 - 5.2 Smith Chart
 - 5.3 3D-PL0T
 - 5.4 2D-Gain
- 6. Passive Measurement
- 7. Measurement Process



1. Revision History

Ver.	Contents	Data
DV	ENHYPEN LIGHT STICK Ver.2	24.07.11

2. Product Information

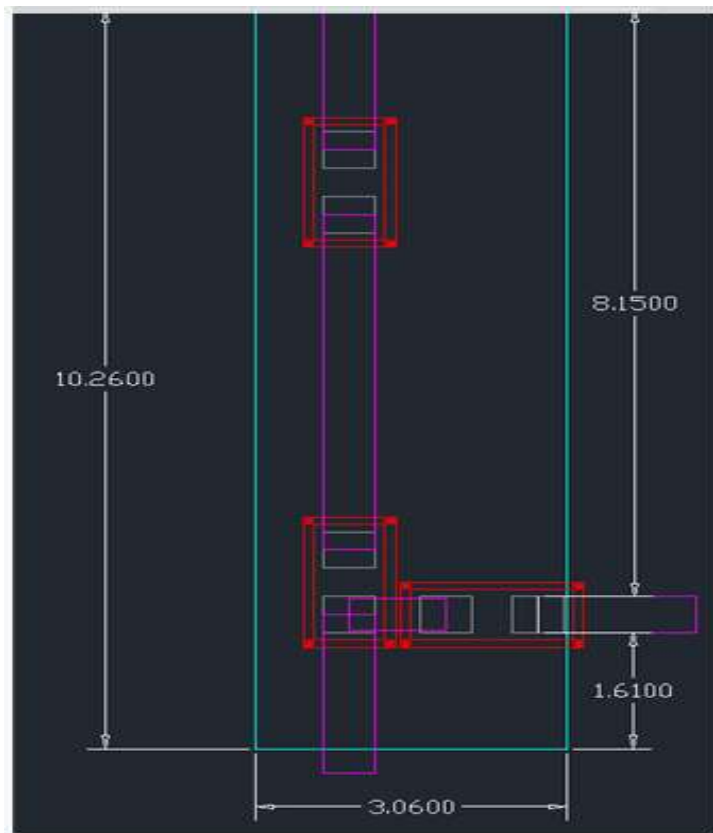
2.1 General Features

PART NEMBER	ENHYPEN LIGHT STICK Ver.2 ANT
ANTENNA TYPE	PCB PATTERN ANTENNA
APPLICATIONS	Bluetooth

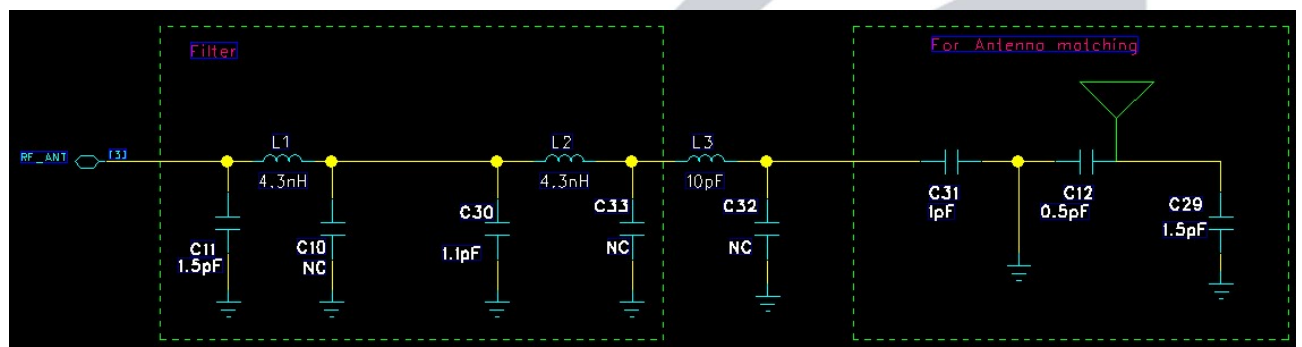
2.2 Electrical Specifications

Frequency Range (Tx)	2400MHz~2480MHz
Frequency Range (Rx)	2400MHz~2480MHz
IMPEDANCE	50Ω
POLARIZATION	Linear

3. Pattern Specifications

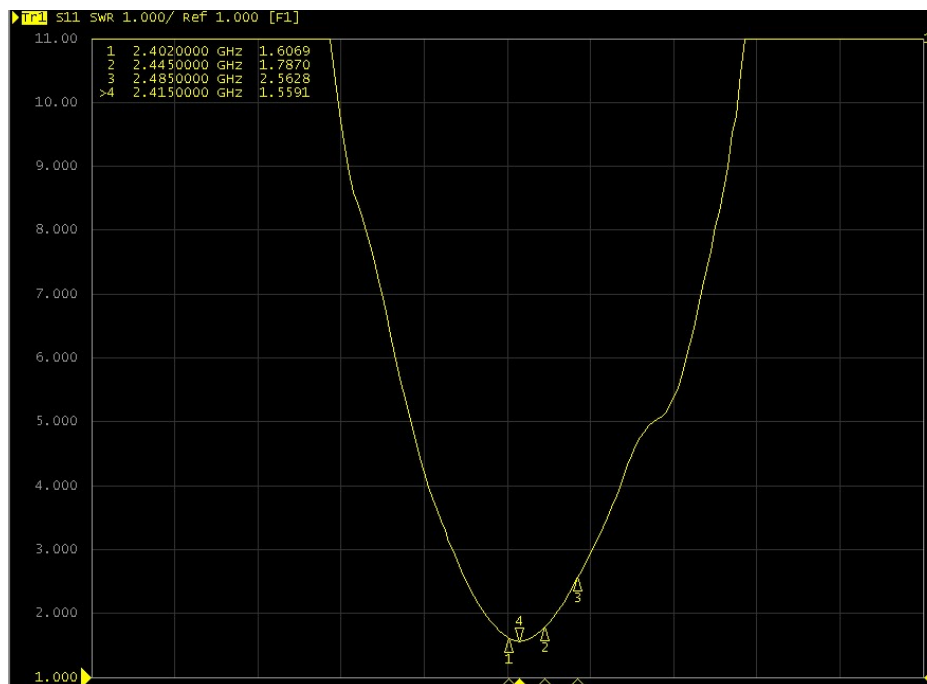


4. Matching Network

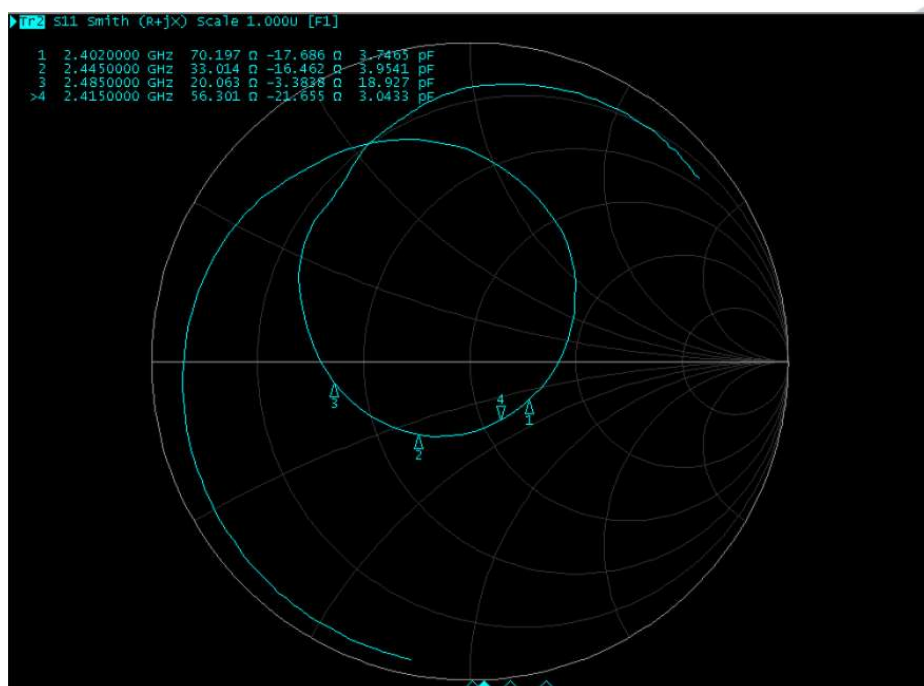


5. Electrical Characteristics

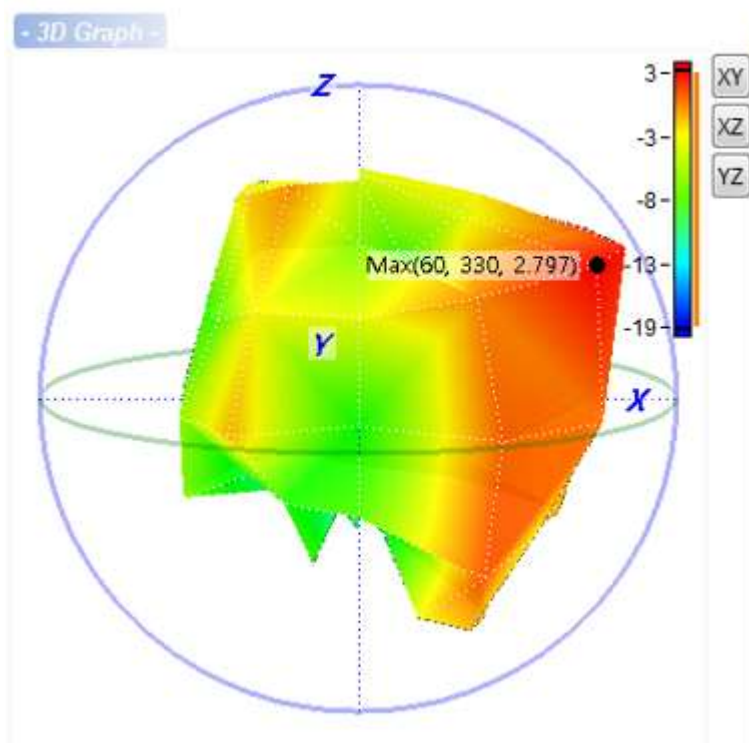
5.1 VSWR



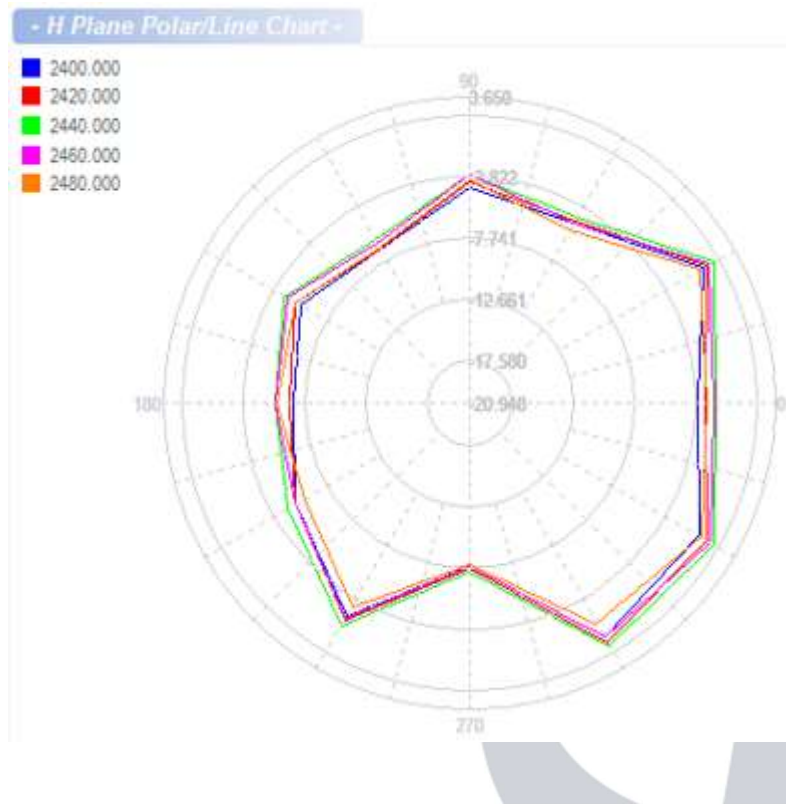
5.2 SMITH CHART



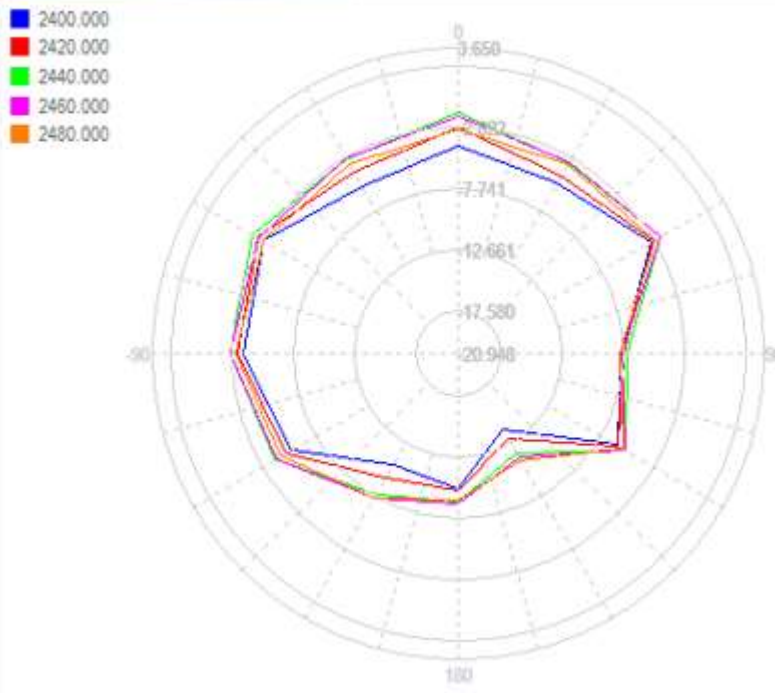
5.3 3D-PLOTS



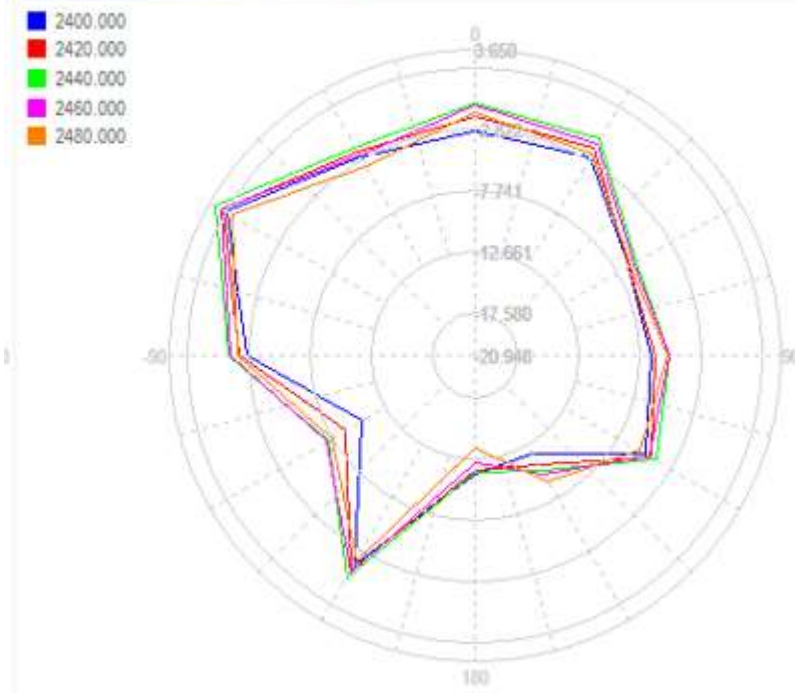
5.4 2D-Gain



- E1 Plane Polar/Line Chart -



- E2 Plane Polar/Line Chart -



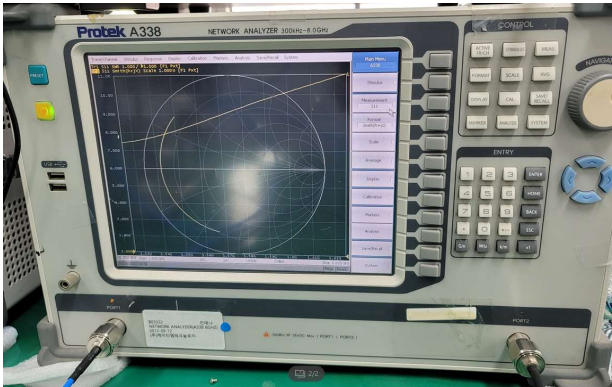
6. Passive Measurement

Sum Summary

	Frequency	Max Gain			Min Gain			Average Gain	Efficiency
	[MHz]	θ[Deg]	φ[Deg]	Gain[dBi]	θ[Deg]	φ[Deg]	Gain[dBi]	Gain[dBi]	[%]
1	2,400.000	60.0	330.0	2.797	180.0	240.0	-18.893	-2.950	50.698
2	2,420.000	60.0	330.0	3.275	180.0	210.0	-18.276	-2.535	55.785
3	2,440.000	60.0	330.0	3.650	180.0	210.0	-17.971	-1.964	63.628
4	2,460.000	60.0	330.0	2.869	180.0	210.0	-18.405	-2.445	56.955
5	2,480.000	60.0	330.0	1.680	180.0	240.0	-20.948	-3.270	47.102

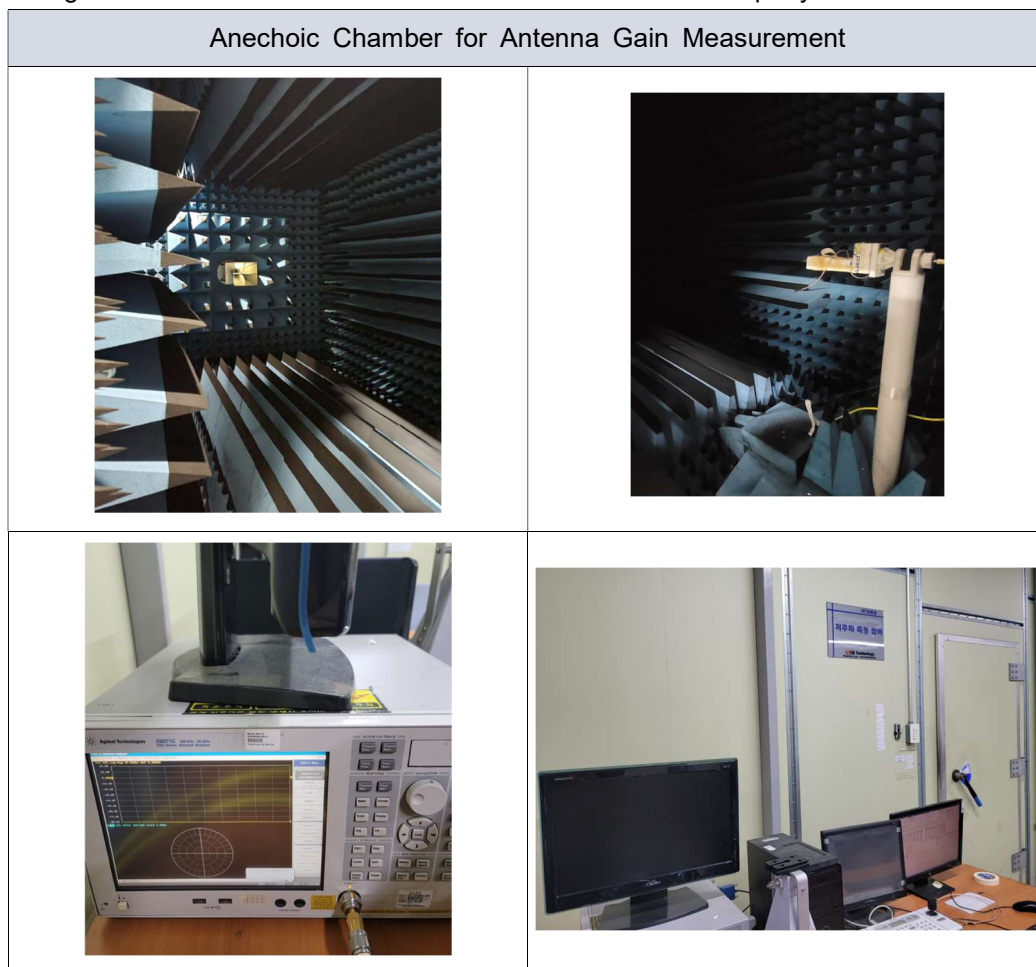
7. Measurement Process

7.1 SWR/Return loss

	Set Condition
Network Analyzer	Protek A338
Cable	RF cable (300 mm)
Test condition	

7.2 Gain

Antenna gain is measured in the anechoic chamber of this company.



7.3 Gain Test block diagram

