



Specification For Approval

Type	Dipole – ANT
Model Name	LA – 24T – ANT
Part No	
Issued Date	2026. 08. 12

Charge	Inspector	Approval
홍민		

SAE HAN ANTENNA CO.,LTD

301-1107,Ssangyong Techno Park 3,36-1 Samjeong-Dong, Ojeong-Gu, Bucheon-Si, Gyeonggi-Do, Korea

TEL : 82.32.624.2630 FAX : 82.32.624.2632



Model Name	Application	Rev	Page
LA – 24T-ANT	Zigbee	0.0	2 / 9

CONTENTS

1. Revision History	3
2. Specification	 4
3. Electrical Specification Test	
3.1. V.S.W.R	5
3.2. Beam Pattern	7
4. Drawing	9



1. Revision History

[illegible]



Model Name	Application	Rev	Page
LA – 24T-ANT	Zigbee	0.0	4 / 9

2. Specification

2.1. Electrical Specification

Item	Spec	Remarks
Center Frequency	2450MHz	
Frequency Range	2400MHz – 2500MHz	
V.S.W.R	Less Than 2.0	
Gain(dBi)	2dBi (Max)	
Radiation pattern	Omni-directional	
Polarization	Linear Vertical	
Impedance	Nominal 50 Ω	

2.2. Mechanical Specification

Item	Spec	Remarks
Dimensions(L)	105	mm(Drawing reference)
Connector	RP-SMA(m)	
Mating Thread	Left-Hand	1/4-36 UNS-2B LH
Color	Black	
Operating Temperature	-40℃ ~ +80℃	
Weight	12g $\pm$ 2g	

2.3. Major Materials of Parts

Item	Materials	Remarks
Sleeve	Keyflex	
Ground Plane	Brass	
Joint	Lumide glass	
Coaxial Cable	Jacket, Teflon, swc, cu	



Model Name	Application	Rev	Page
LA – 24T-ANT	Zigbee	0.0	5 / 9

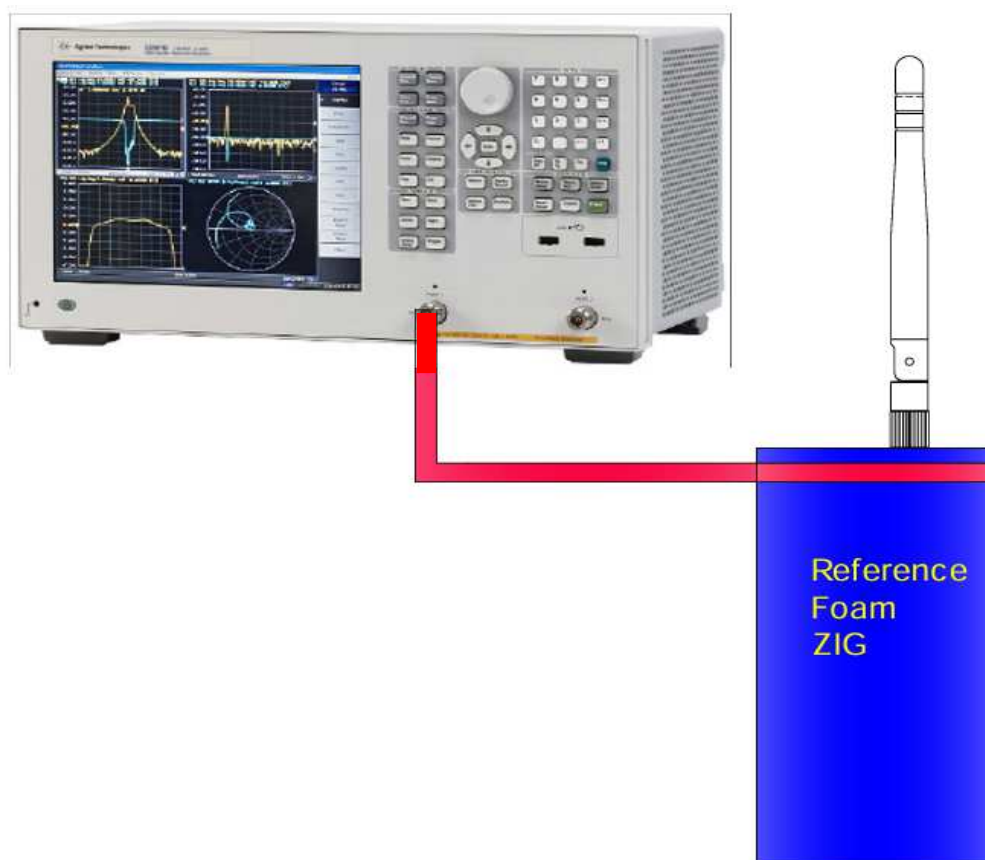
3. V.S.W.R Test

3.1.1. Test method

① Network Analyzer Spec

Equipment	Model	Specification
Network Analyzer	HP8753ES	· Freq. Range : 300KHz ~ 6GHz
Calibration Kit	HP85032B	· DC ~ 6GHz (SMA-Type)

② Network Analyzer test method



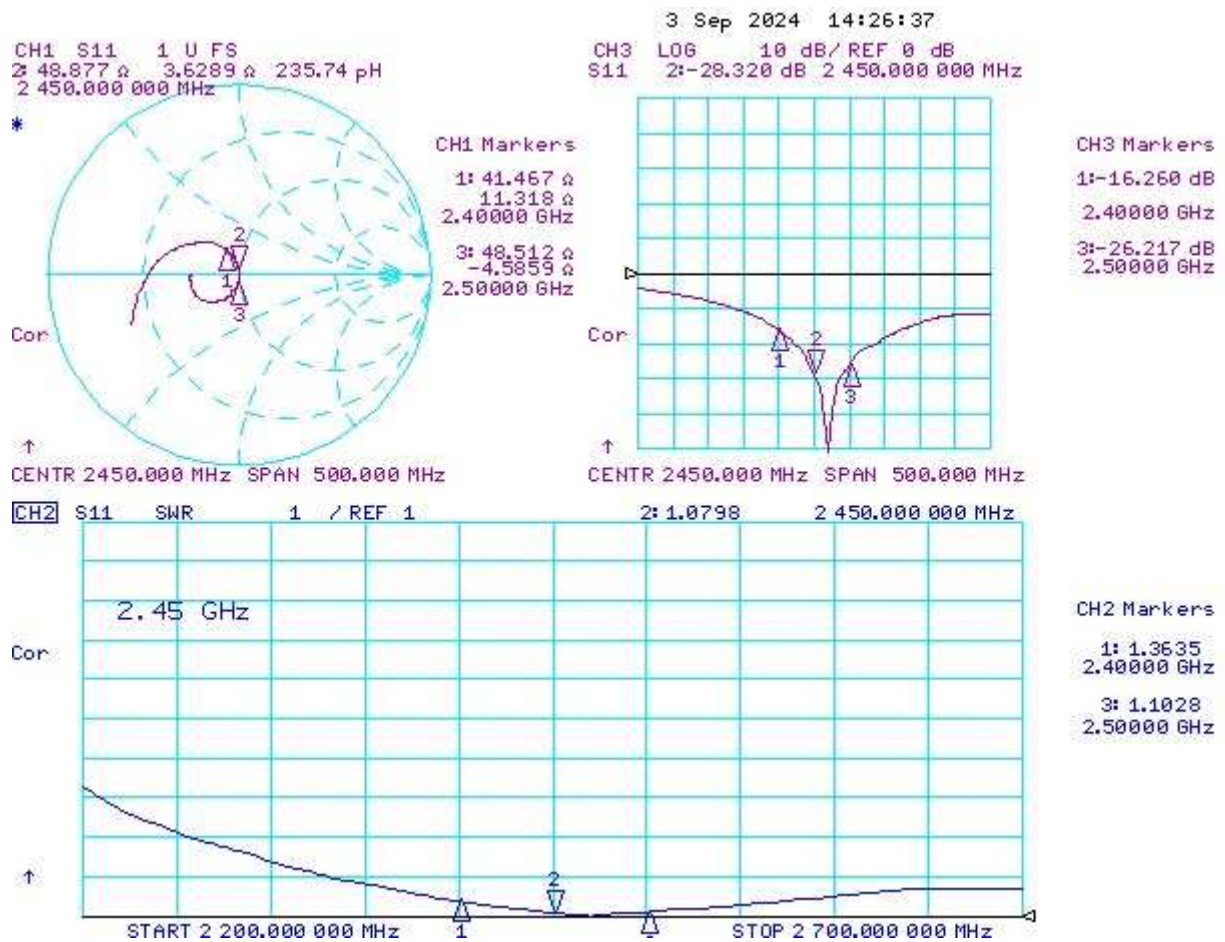


Model Name	Application	Rev	Page
LA - 24T-ANT	Zigbee	0.0	6 / 9

3. Electrical Specification

3.1.2. V.S.W.R

DATA





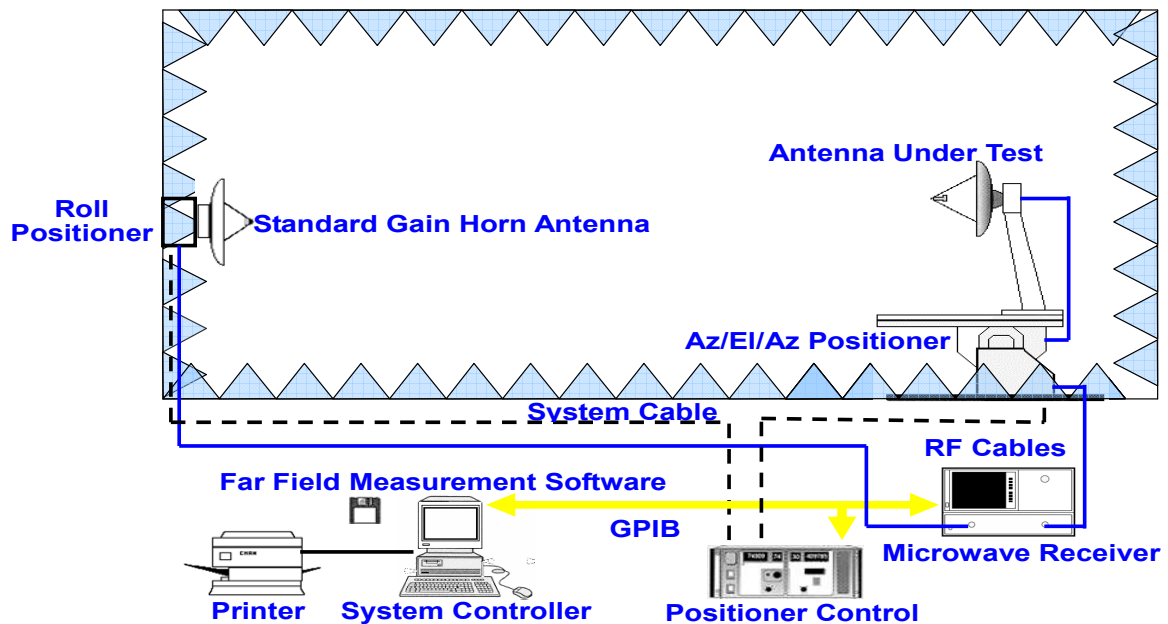
Model Name	Application	Rev	Page
LA – 24T-ANT	Zigbee	0.0	7 / 9

3.2.1. Gain & Beam Pattern Test

① Chamber Spec

Section	Specification
Chamber Size	6(L)m X 3(W)m X 3(H)m
Frequency Range	400MHz – 6GHz (Far Field)
Quiet Zone	1m X 1 m @ 1GHz
Type	Rectangular
Antenna weight	< 50 kg

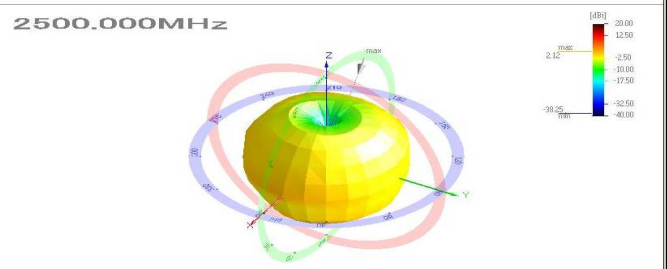
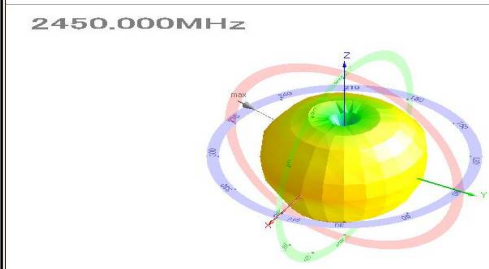
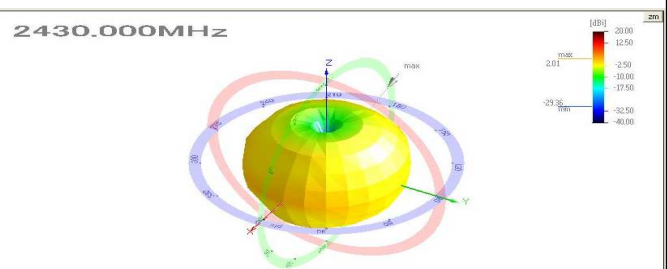
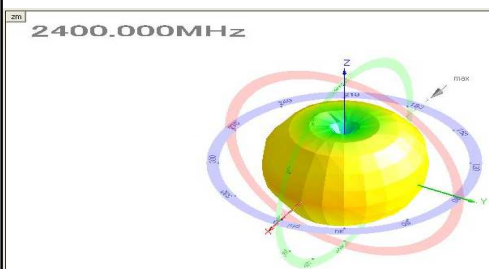
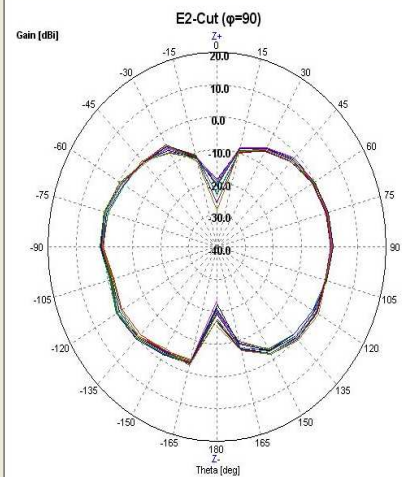
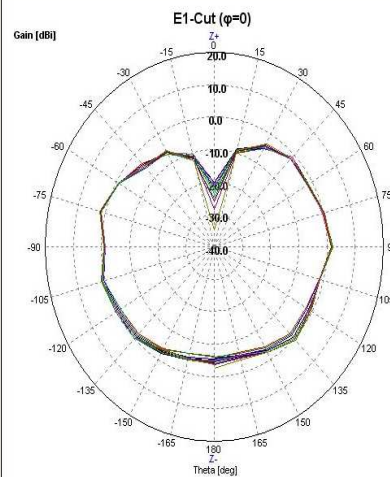
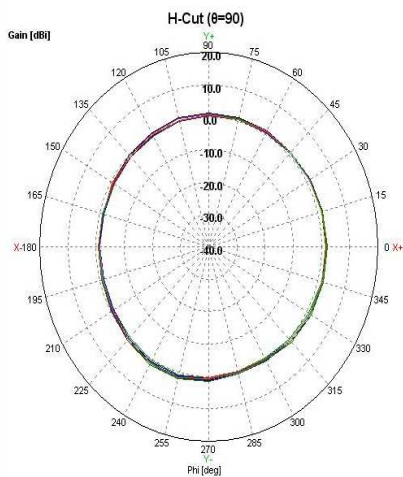
② Chamber Test method





3.2.2. Gain & Beam Pattern

No.	Freq.	θ-Pol(H)					H(θ=90)					E1(φ=0)					E2(φ=90)				
		Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]	Avg.[dBi]	Peak[dBi]	φ[deg]	BW[deg]		Avg.[dBi]	Peak[dBi]	θ[deg]	BW[deg]		Avg.[dBi]	Peak[dBi]	θ[deg]	BW[deg]	
1	2400.000	73.77	-1.32	1.58	75.00	165.00	0.39	1.49	15.00	999.00		-2.37	1.51	-75.00	61.99		-2.34	0.83	90.00	95.72	
2	2410.000	75.00	-1.25	1.50	90.00	15.00	0.42	1.50	15.00	999.00		-2.32	1.49	90.00	46.81		-2.21	0.90	90.00	95.68	
3	2420.000	79.37	-1.00	1.74	75.00	180.00	0.56	1.65	15.00	999.00		-2.11	1.74	-75.00	31.68		-1.92	1.04	90.00	96.92	
4	2430.000	85.76	-0.67	2.01	75.00	180.00	0.83	1.89	345.00	999.00		-1.77	2.01	-75.00	30.67		-1.55	1.30	90.00	97.88	
5	2440.000	85.62	-0.67	1.86	75.00	180.00	0.73	1.84	345.00	999.00		-1.73	1.86	-75.00	31.12		-1.58	1.16	-90.00	96.48	
7	2450.000	82.80	-0.82	1.71	90.00	255.00	0.51	1.71	255.00	999.00		-1.83	1.65	-75.00	31.20		-1.76	1.14	-90.00	92.78	
8	2460.000	87.35	-0.59	1.99	90.00	255.00	0.75	1.99	255.00	999.00		-1.62	1.94	-75.00	30.46		-1.52	1.38	-75.00	94.02	
9	2470.000	89.33	-0.49	2.09	75.00	180.00	0.86	2.06	255.00	999.00		-1.45	2.09	-75.00	81.76		-1.45	1.48	-90.00	92.91	
10	2480.000	84.39	-0.74	1.84	90.00	345.00	0.57	1.84	345.00	999.00		-1.68	1.71	-75.00	82.12		-1.71	1.17	-75.00	91.23	
11	2483.000	84.21	-0.75	1.84	75.00	195.00	0.56	1.75	255.00	999.00		-1.72	1.82	-75.00	80.49		-1.76	1.15	-75.00	90.43	
12	2490.000	85.72	-0.67	2.11	75.00	180.00	0.59	1.74	360.00	999.00		-1.59	2.11	-75.00	30.26		-1.66	1.29	-75.00	87.75	
13	2500.000	87.94	-0.56	2.12	75.00	195.00	0.65	1.89	360.00	999.00		-1.50	2.09	-75.00	77.92		-1.55	1.50	120.00	96.40	

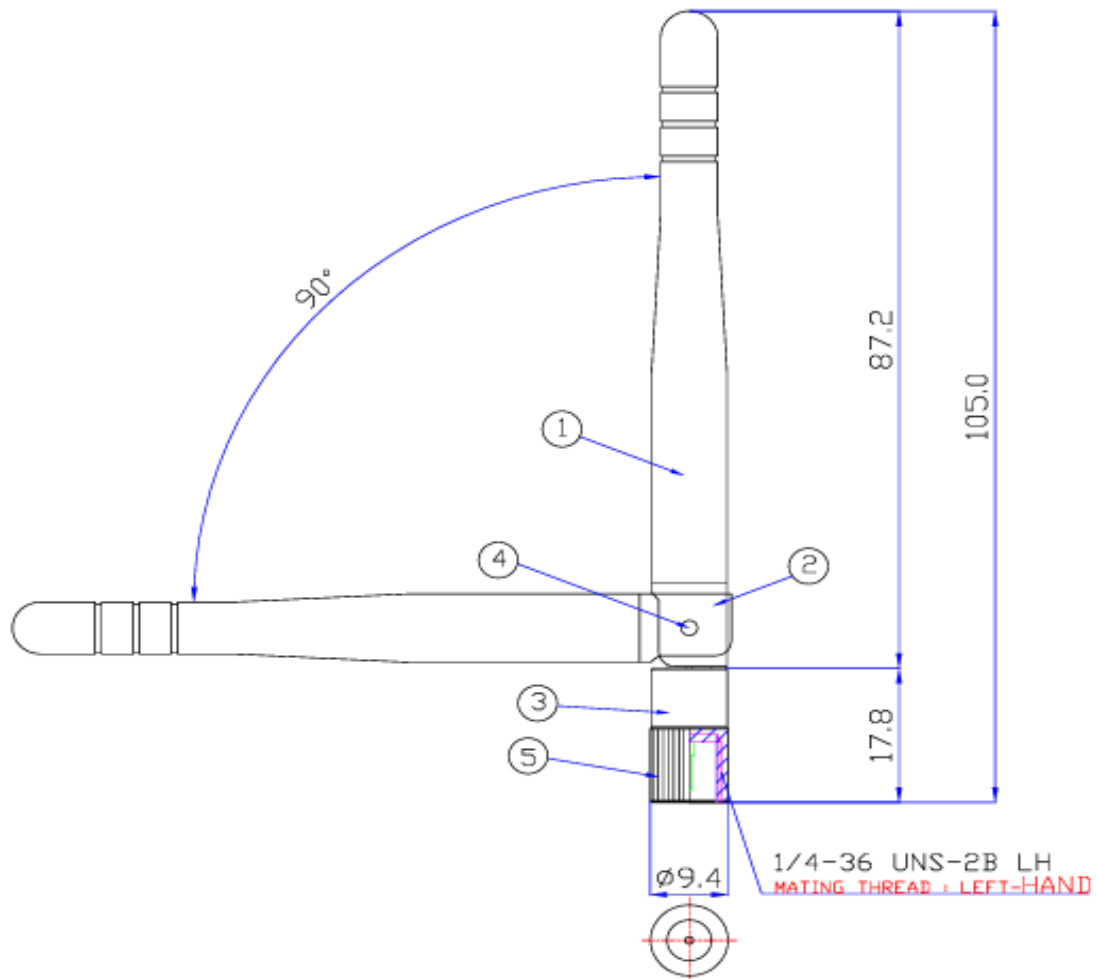


Model Name	Application	Rev	Page
LA – 24T-ANT	Zigbee	0.0	9 / 9

4. Drawing

CONTROLLED DRAWING
This drawing is the property of SAEHAN ANT.
Expressed technical contents are
not to be reproduced or loaned without
written permission from SAE HAN ANT.

NO	DESCRIPTION	MATERIAL	SIZE	PART NO	Q'TY
1	SLEEVE	KEYFLEX / BLACK	ø9.3x76mm		1
2	JOINT A	LUMIDE / BLACK	ø9.8x23.9mm		1
3	JOINT B	LUMIDE / BLACK			1
4	PIN	BRASS / BLACK	ø2.0x3mm		1
5	CONNECTOR	1/4-36 UNS-2B LH	ø9.4x18mm	Noting : Left Hand	1



UNLESS OTHERWISE SPECIFIED TOLERANCES	6				SAEHAN ANTENNA			NAME OF TITLE	
	5							DIPOLE ANTENNA	
0 ~ 4	± 0.1	4			SCALE	UNITS	DATE	MODEL No.	
4 ~ 16	± 0.15	3			1/1	mm	2026.08.12	LA- 24T - ANT	
16 ~ 63	± 0.2	2			DRAWN/DESIGNED	CHECKED	APPROVED	DRAWING/PART No.	
63 ~ 250	± 0.3	1			HWANG	J.M		APPROVED No.	
250 ~	± 0.5	NO DATE	DESCRIPTION OF REVISION	SIGN				USE FREQUENCY (MHz)	2.4~2.5GHz