



Specification For Approval

Type	DIPOLE – ANT
Model Name	LA – 24A – ANT
Part No	
Issued Date	2013. 05. 22

SAE HAN ANTENNA CO.,LTD

CONTENTS

1. Specification	3
2. Electrical Specification Test		
2.1 V.S.W.R	4
2.2 Beam Pattern	7
3. Antenna Drawing	8

1. Specification

1.1. General Specification

General specification	
Model name	LA – 24A
Antenna type	1/2 Wavelength Dipole Antenna

1.2. Electrical Specification

Electrical specification	
Center Frequency	2438MHz
Frequency Range	2400MHz – 2500MHz
V.S.W.R	Less Than 1.5
Gain(dBi)	3dBi (Max)
Radiation pattern	Omni-directional
Polarization	Linear Vertical
Impedance	50 Ω Normal \pm 10

1.3. Mechanical Specification

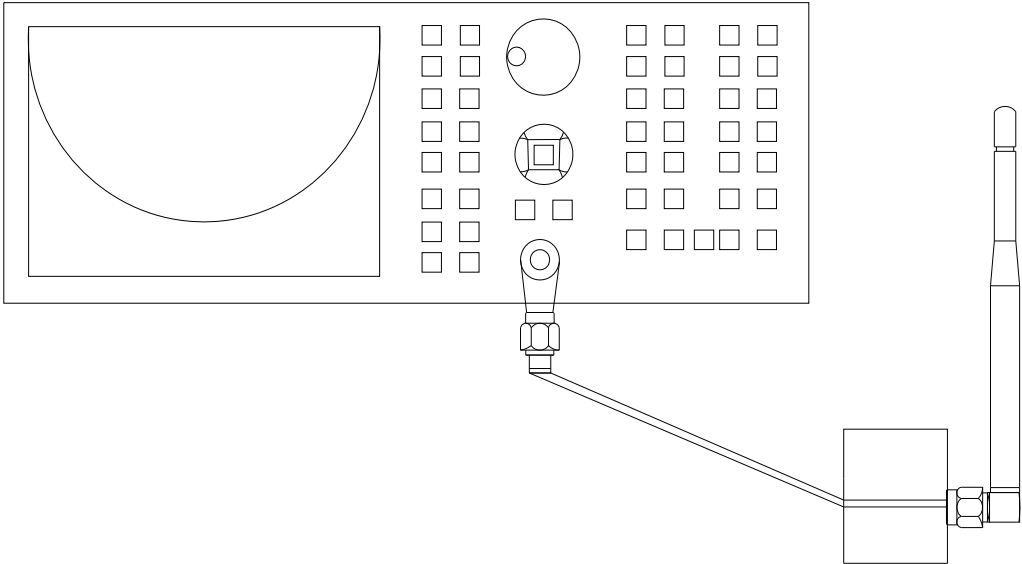
Mechanical specification	
Connector Type	SMA – R/A
Cover Material	Drawing reference
Color	Black
Temperature Range	-45 $^{\circ}$ C ~ +85 $^{\circ}$ C
Weight	6g \pm 0.2g
Dimension	Drawing reference

2. V.S.W.R Test

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



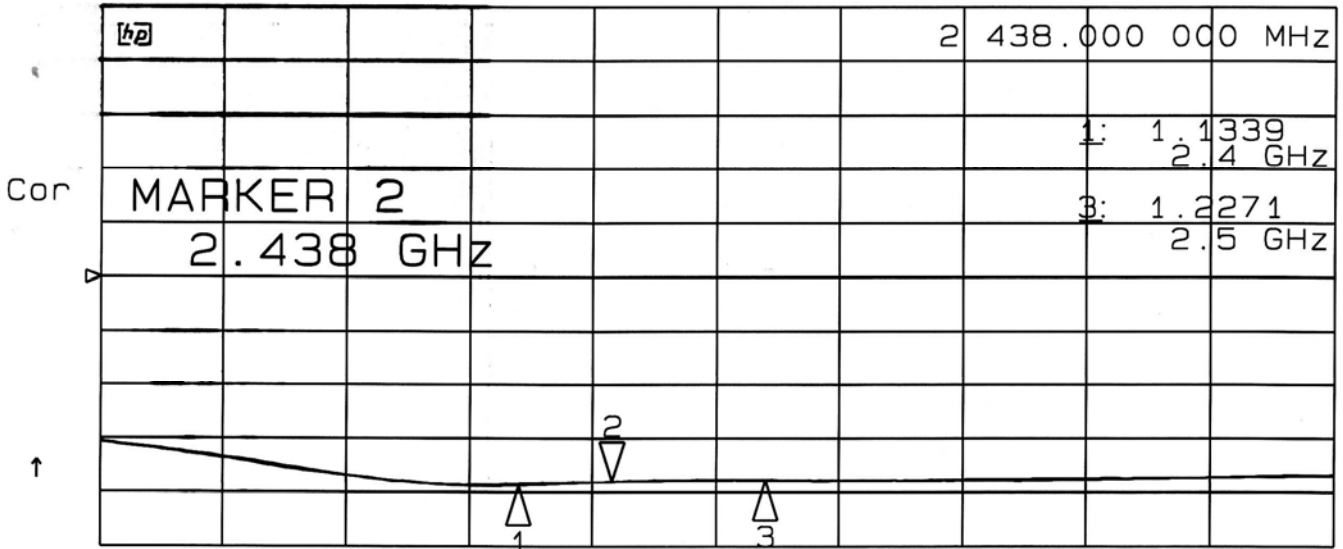
2.1 V.S.W.R

DATA

CH1 RFL&M SWR

1 / REF 5

2: 1.1995

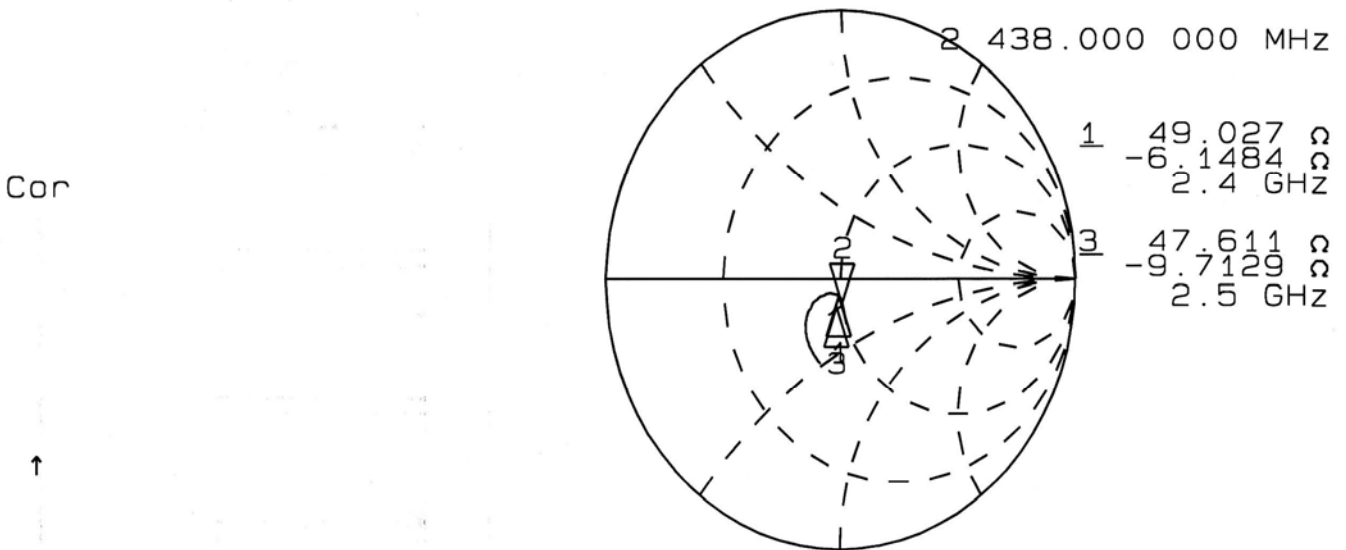


CH2 RFL 1 U FS

2 49.914 Ω

-9.0996 Ω

7.174 pF



CENTER 2 480.000 000 MHz

SPAN 500.000 000 MHz

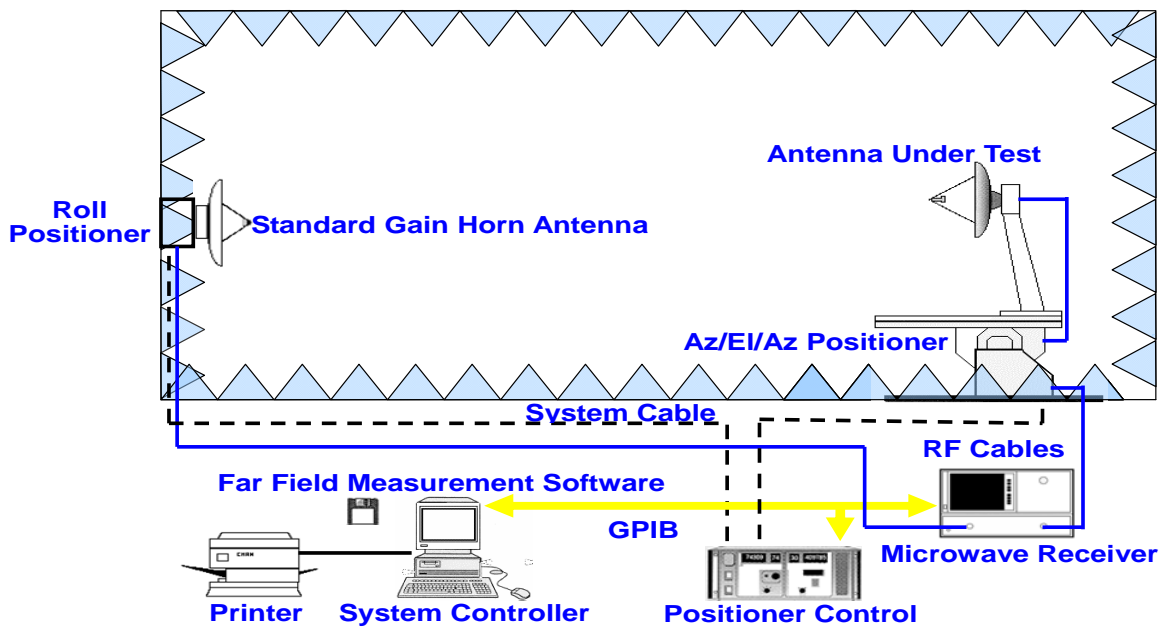
Frequency	V.S.W.R	비	교
2400 MHz	1.13		
2438MHz	1.19		
2500MHz	1.22		

2.2 Gain & Beam Pattern Test

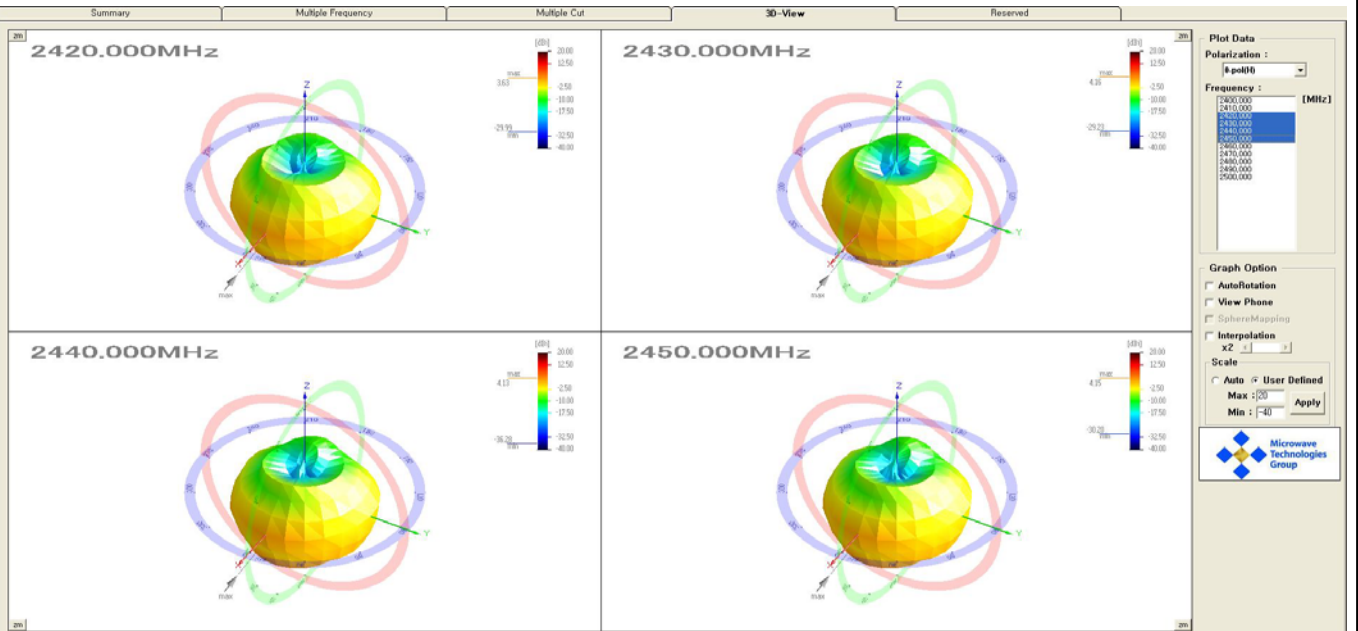
① Chamber Spec

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	< 30 kg

② Chamber Test method



2.3. Gain & Beam Pattern



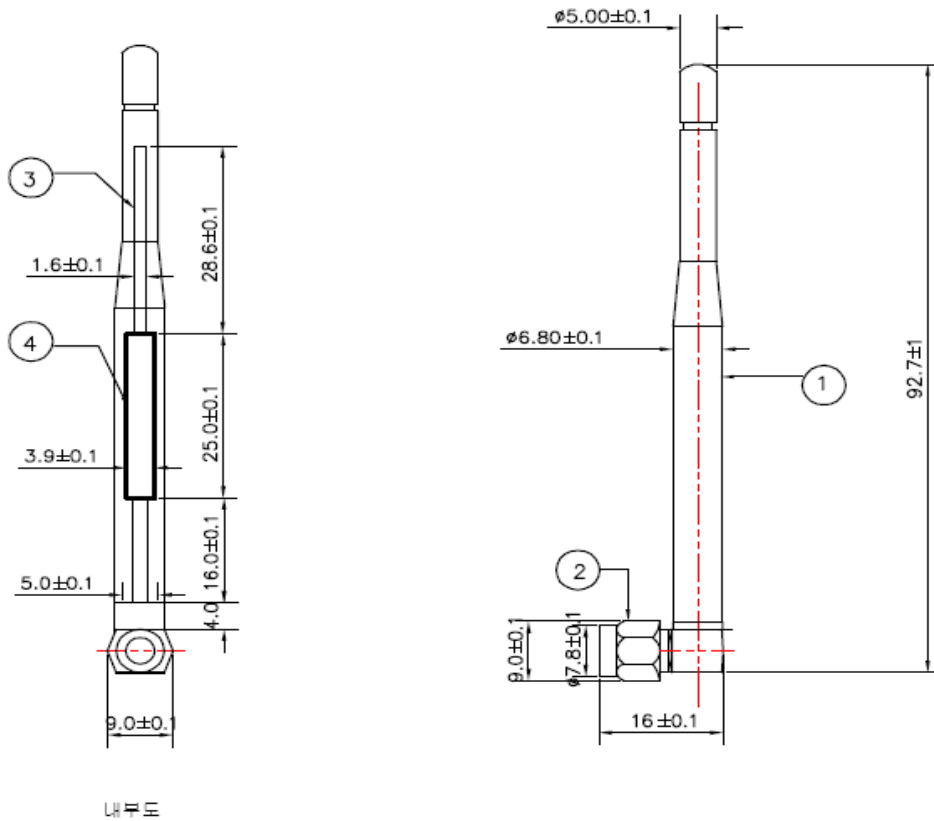
주 파 수	Gain(Max)	비 고
2400MHz	3.12dBi	
2430MHz	3.39dBi	
2500MHz	2.47dBi	

3. Drawing

CONTROLLED DRAWING

This drawing is the property of SAEHAN ANT.
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NO	DESCRIPTION	MATERIAL	SIZE	PART NO	Q'TY
1	SLEEVE	URETHANE	ø6.4x75L		
2	CONNECTOR	SMA / GOLD	ø9.0x17L		
3	COAXIAL CABLE		RG 316		
4	PIPE	BsBM	ø3.9x25L		



UNLESS OTHERWISE SPECIFIED TOLERANCES		6			SAE HAN ANTENNA			NAME OF TITLE	
		5						ANTENNA ASS'Y	
0 ~ 4	± 0.1	4			SCALE	UNITS	DATE	MODEL No.	
4 ~ 16	± 0.15	3			1 / 1	mm	2007.2.16.		
16 ~ 63	± 0.2	2			DRAWN/DESIGNED	CHECKED	APPROVED	DRAWING/PART No.	
63 ~ 250	± 0.3	1			황동민			APPROVED No.	
250 ~	± 0.5	NO	DATE	DESCRIPTION OF REVISION				SIGN	USE FREQUENCY (MHz)