주식회사 알아이씨

제품사양서

2018.02.06. (Ver. 1.0)

DESCRIPTION	Dual-band Wi-Fi ANTENNA
WORKING BAND	2.4GHz & 5.8GHz
MODEL	RIC-WAT-24580804-UFL150
CUSTOMER NAME	
ISSUE DATE	2018.02.06.

DESIGN	CHECK	APPROBAL
J.W. PARK	J.B. KIM	M.K. JANG
2018. .	2018. .	2018. 02. 06.

INDEX

1. Product Drawing

2. Instrument

3. Typical Setup for Test System

4. Anechoic Chamber

5. Test Instrument

6. Antenna Sample Description

7. Performance Report

   A. #1 Antenna

   B. #2 Antenna

   C. #3 Antenna

   D. #4 Antenna

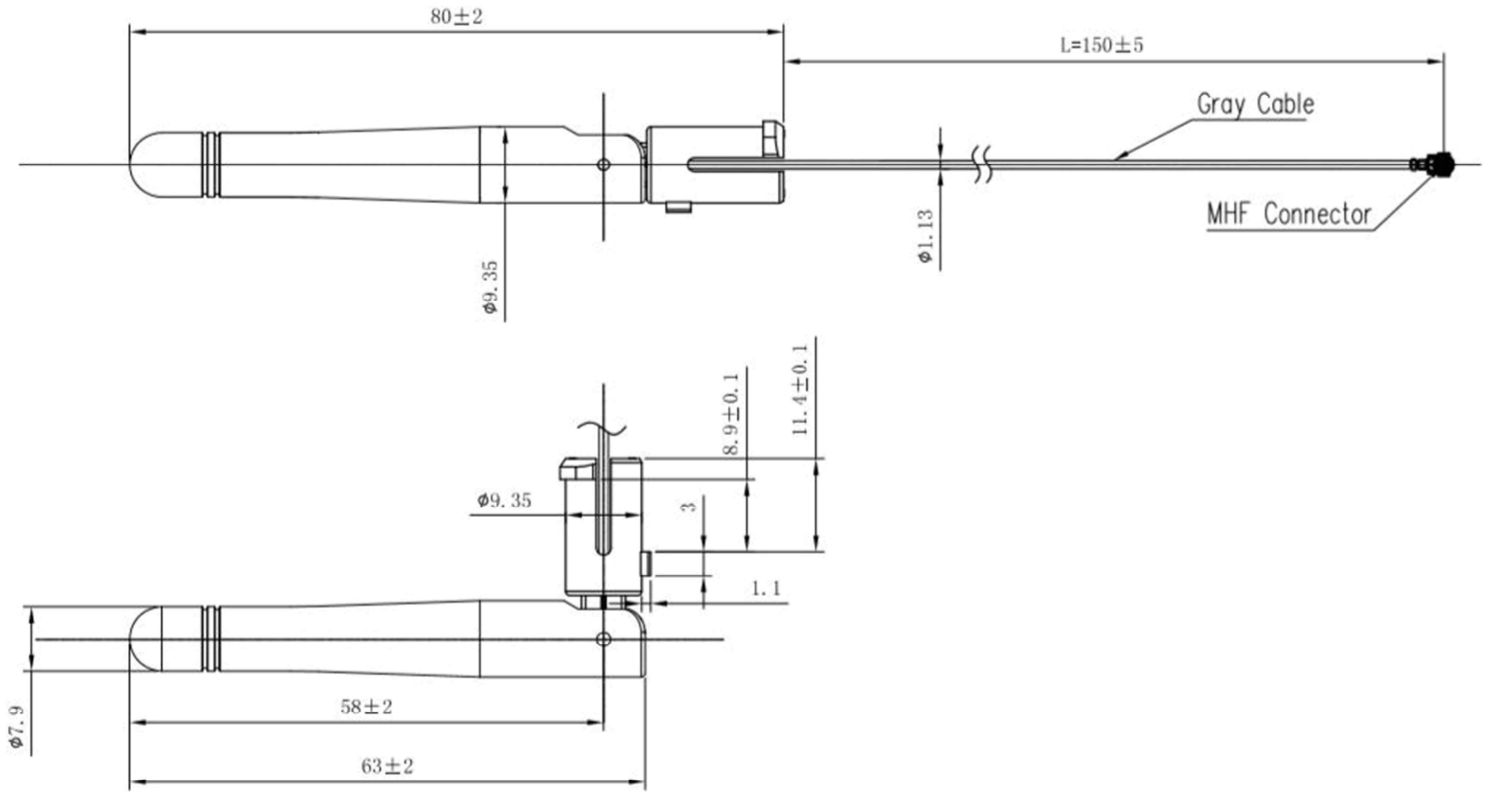
   E. #5 Antenna

문서개정이력

Author	Date	Version	Comment
	2018.02.06.	1.0	초안 작성

이 문서와 문서에 포함되어있는 정보는 ㈜알아이씨의 고유 기밀 정보이며, ㈜알아이씨의 사전 동의 없이 전체 혹은 부분적인 내용을 외부에 유출하거나 사용할 수 없습니다.

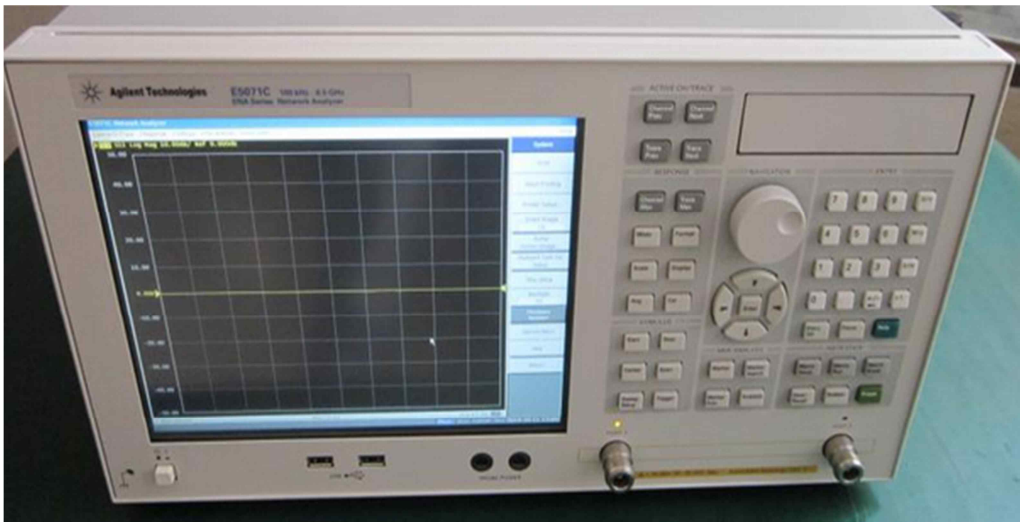
1. Product Drawing



No		Description	QTY
1	Antenna Capr	TPEE,Color,black	1
2	Upper Base	PC+PBT,Color,black	1
3	Bottom Base	PBT+PC,Color,black	1
4	Rivet	PBT+PC,Color,white	2
5	Cable	MI-113 Cable,Gray,50Ω	1
6	Connector	MHF Plug for 1.13mm Cable	1

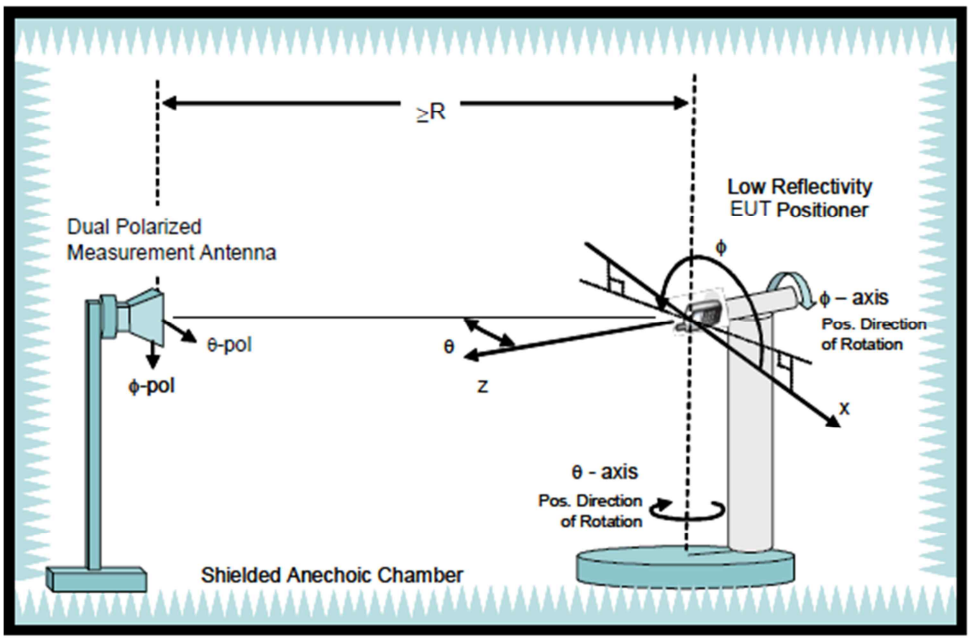
RIC CO., LTD		
제품명칭	Dual-band Wi-Fi Antenna	
세부명칭	RIC-WAT-24580803(B)-UFL	
단위	mm	
설계자	검사자	승인자
승인일자	2018.02.05.	

2. Instrument

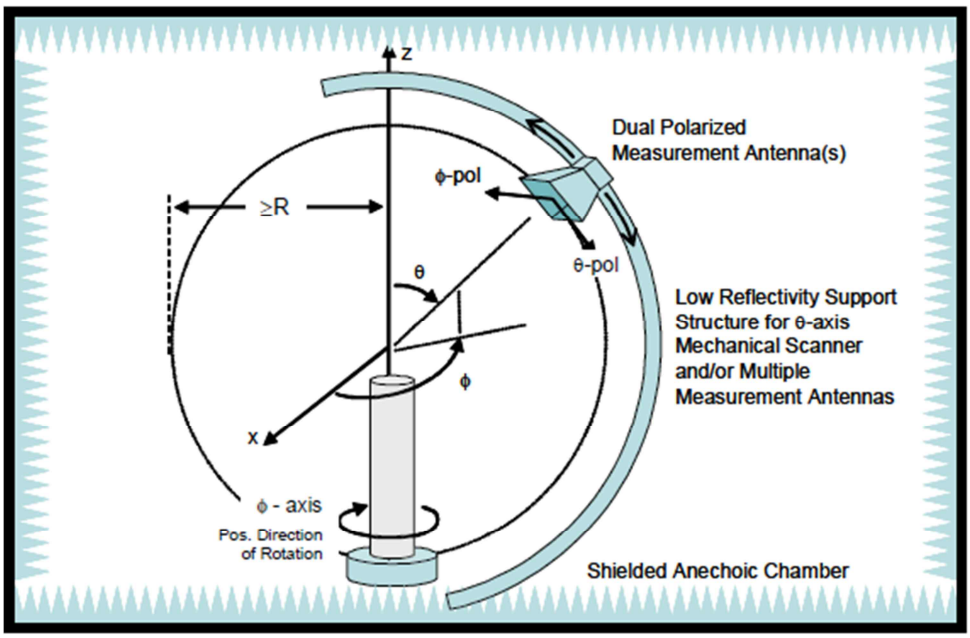


Network Analyzer	Agilent E5071C
Frequency Range	100KHz ~ 8.5GHz
Test Item	Return Loss/VSWR/ Smith Chart/Isolation

3. Typical Setup for Test System

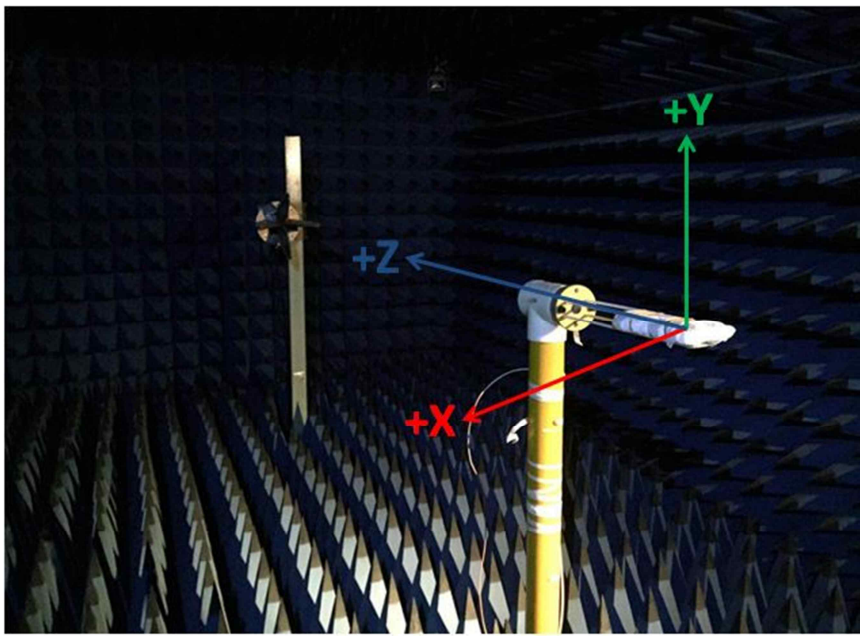


Combined-Axes System

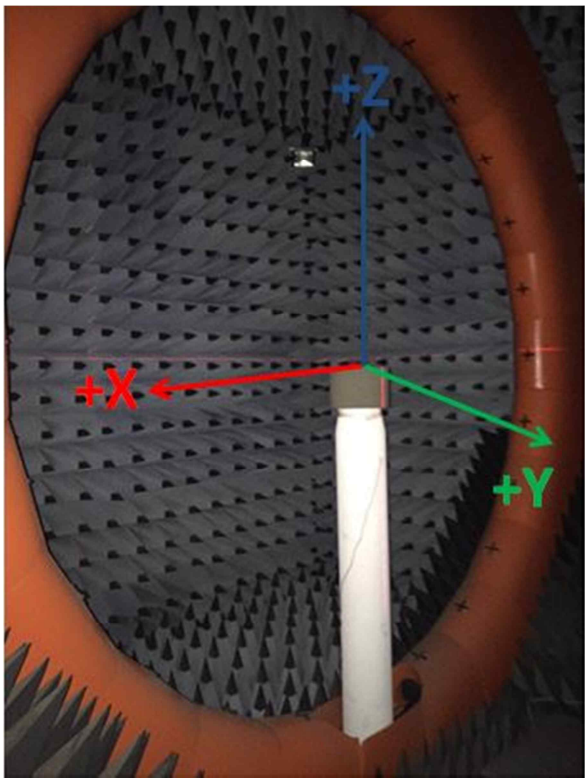


Distributed-Axes System

4. Anechoic Chamber



Combined-Axes System



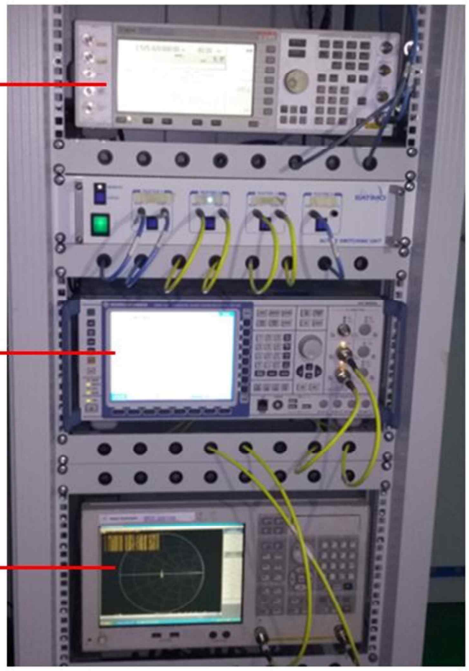
Distributed-Axes System

5. Test Instrument

Generator	Agilent E4438C
Test Item	GPS

Radio Communication Tester	R&S CMW500
Test Item	Active Test

Network Analyzer	Agilent E5071C
Test Item	Passive Test

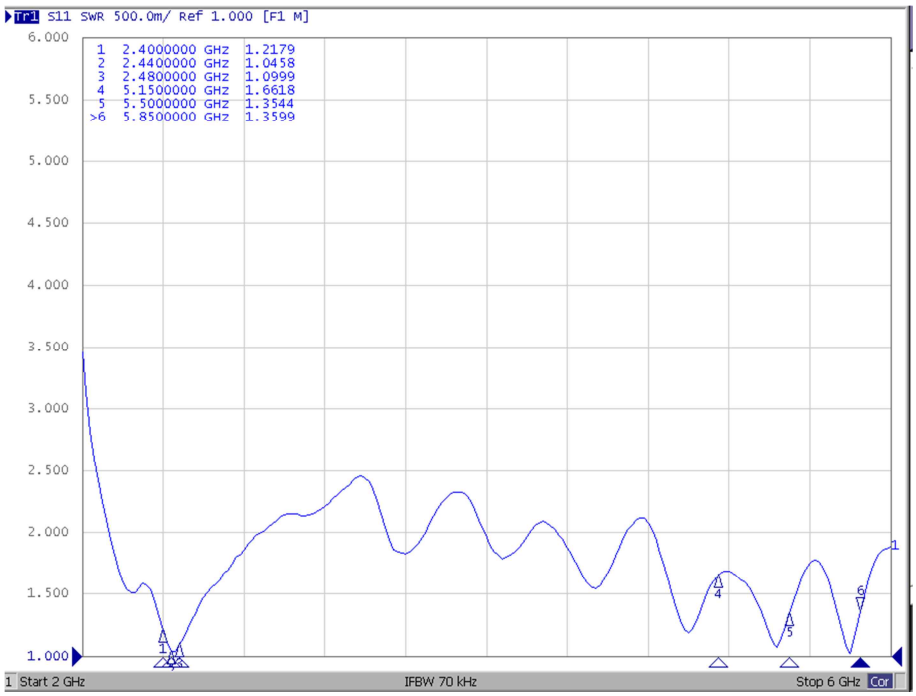


6. Antenna Sample Description

Cable length = 150m

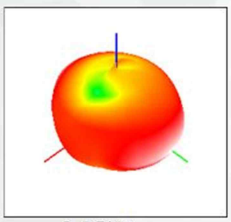
7. Performance Report

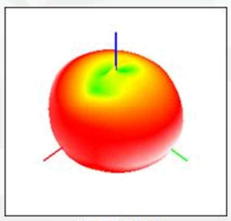
A. #1 Antenna

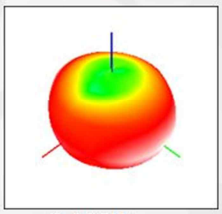


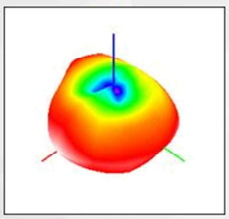
#1 VSWR

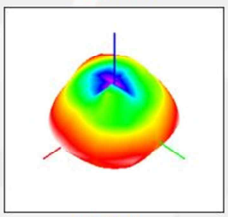
Freq.(GHz)	2.4	2.44	2.48	5.15	5.5	5.85
VSWR	1.2	1.1	1.1	1.6	1.3	1.3
Gain(dBi)	3.72	3.36	3.18	4.14	3.59	4.19
Efficiency	71.70%	73.20%	70.90%	73.50%	72.10%	78.60%

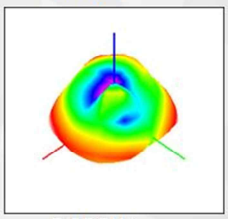

2.4GHz


2.44GHz


2.48GHz

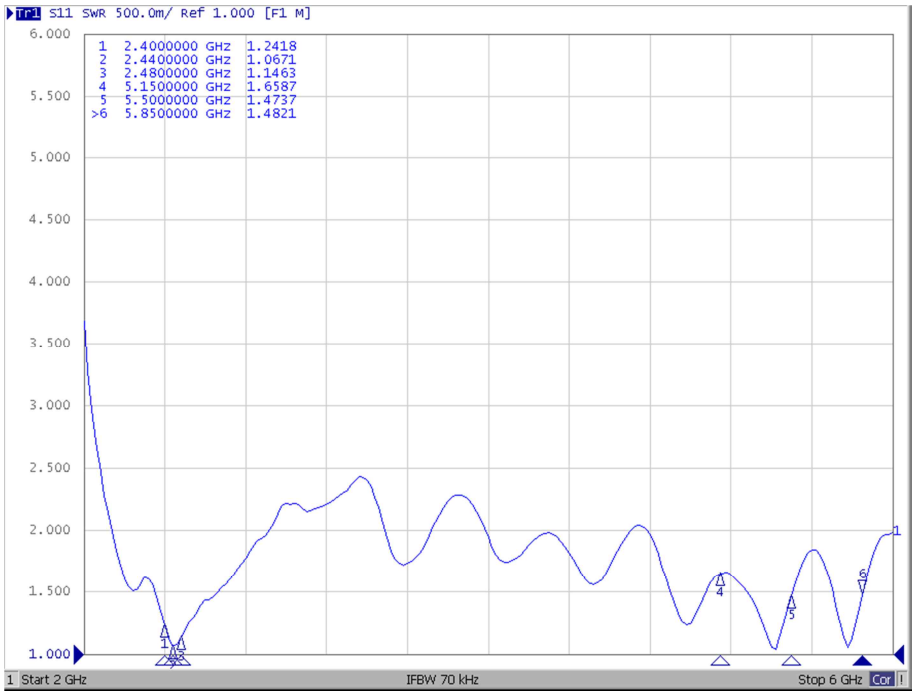

5.15GHz


5.5GHz


5.85GHz

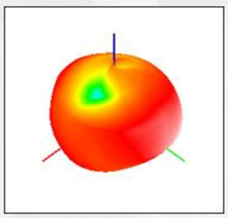
#1 Test Result

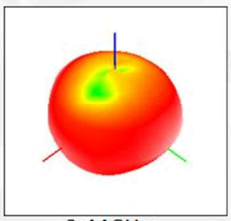
B. #2 Antenna

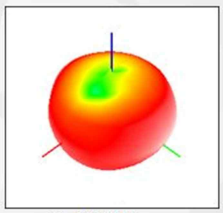


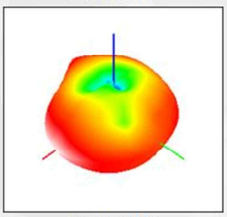
#2 VSWR

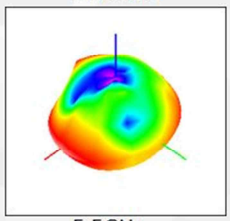
Freq.(GHz)	2.4	2.44	2.48	5.15	5.5	5.85
VSWR	1.2	1.0	1.1	1.6	1.4	1.4
Gain(dBi)	3.57	3.42	3	4.32	4.02	4.84
Efficiency	72.60%	72.40%	72.40%	74.90%	72.90%	79.40%

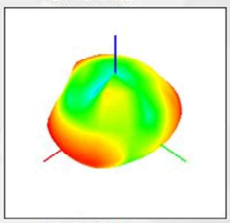

2.4GHz


2.44GHz


2.48GHz

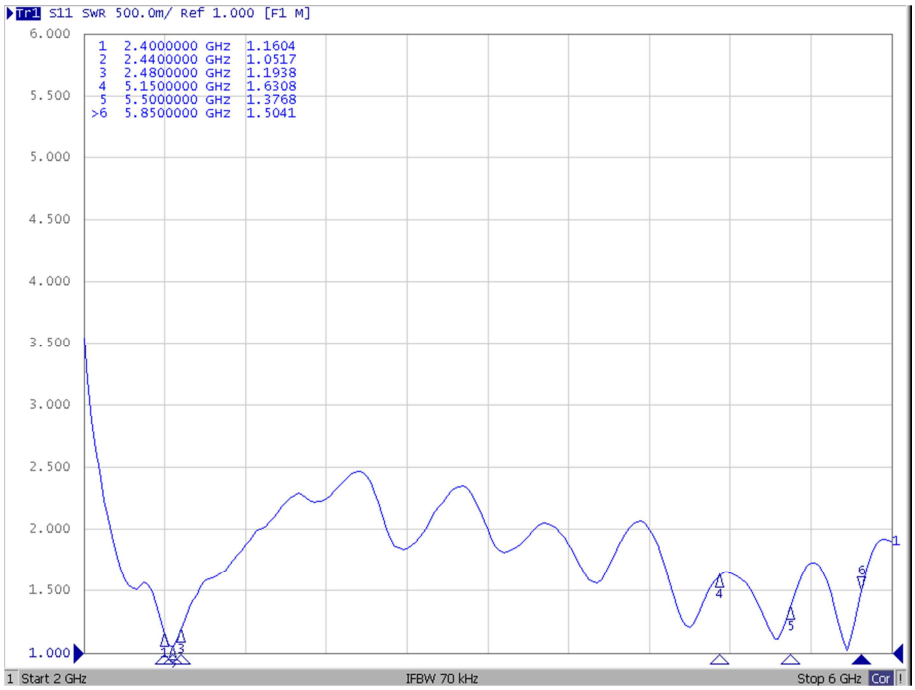

5.15GHz


5.5GHz


5.85GHz

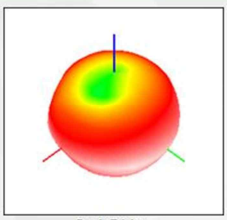
#2 Test Result

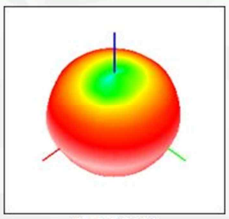
C. #3 Antenna

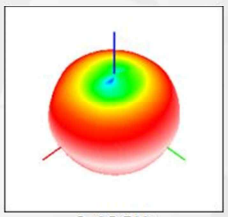


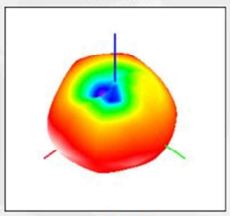
#3 VSWR

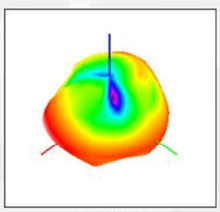
Freq.(GHz)	2.4	2.44	2.48	5.15	5.5	5.85
VSWR	1.1	1.1	1.2	1.6	1.3	1.5
Gain(dBi)	2.96	3.36	2.63	4.71	4.52	4.56
Efficiency	77.40%	74.90%	73.00%	75.00%	73.50%	82.80%

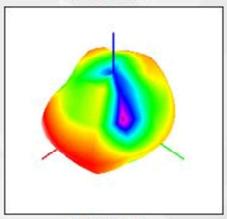

2.4GHz


2.44GHz


2.48GHz

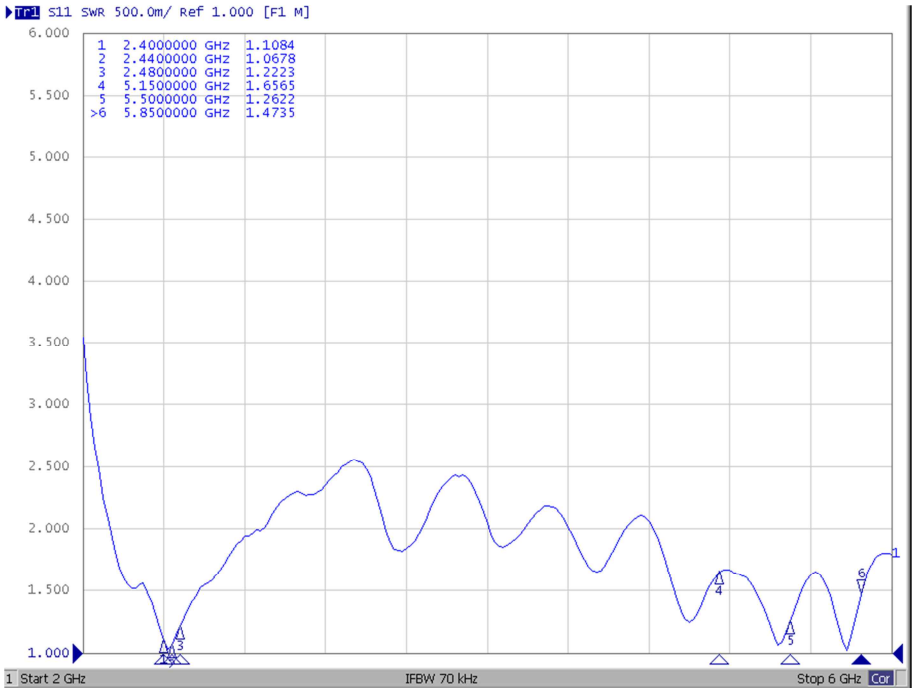

5.15GHz


5.5GHz


5.85GHz

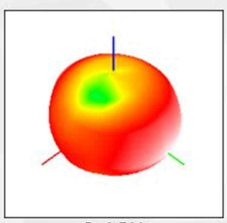
#3 Test Result

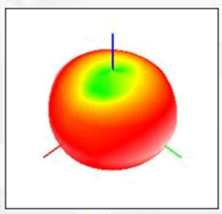
D. #4 Antenna

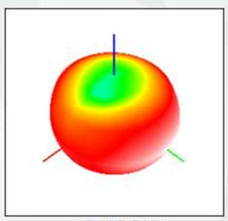


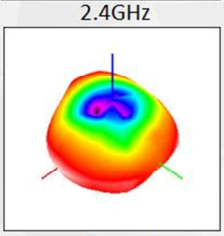
#4 VSWR

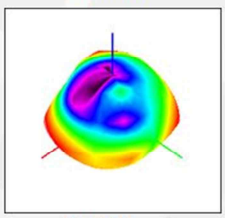
Freq.(GHz)	2.4	2.44	2.48	5.15	5.5	5.85
VSWR	1.1	1.1	1.2	1.6	1.3	1.5
Gain(dBi)	3.19	3.34	2.84	3.54	4.18	4.35
Efficiency	75.70%	74.30%	72.20%	75.40%	72.40%	79.40%

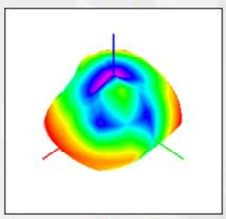

2.4GHz


2.44GHz


2.48GHz

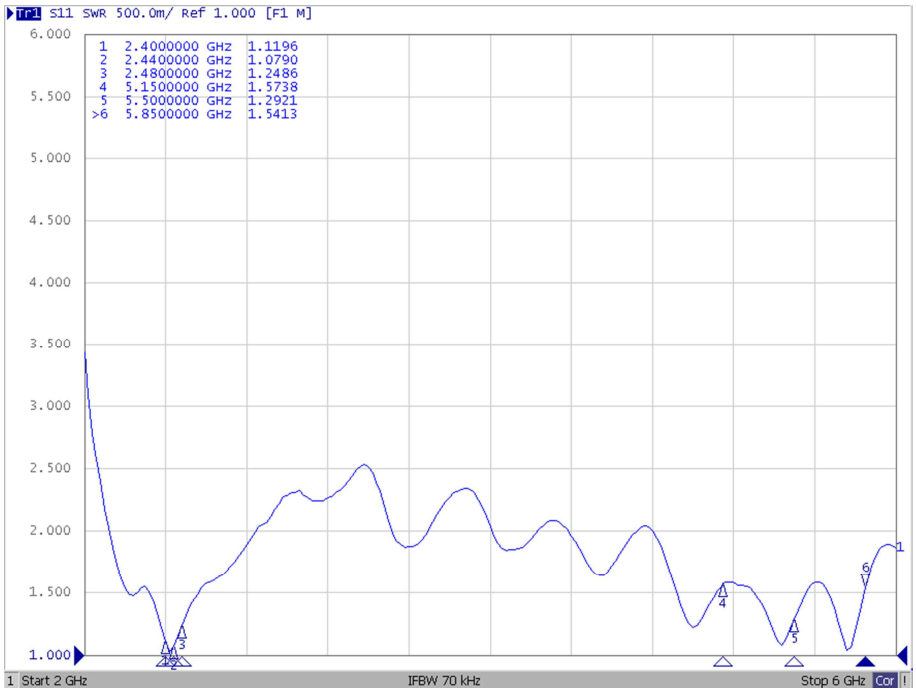

5.15GHz


5.5GHz


5.85GHz

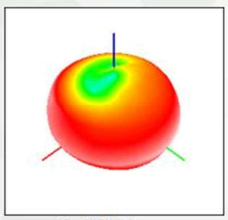
#4 Test Result

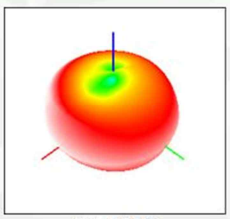
E. #5 Antenna

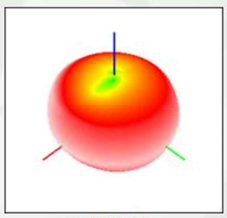


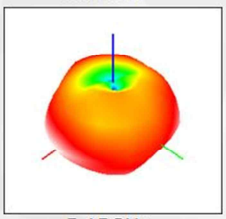
#5 VSWR

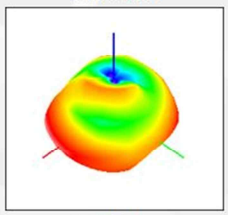
Freq.(GHz)	2.4	2.44	2.48	5.15	5.5	5.85
VSWR	1.1	1.1	1.2	1.6	1.3	1.5
Gain(dBi)	2.83	2.9	2.7	3.92	4.88	4.74
Efficiency	70.60%	71.80%	70.60%	76.10%	69.30%	78.70%

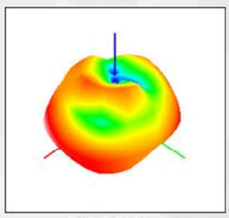

2.4GHz


2.44GHz


2.48GHz


5.15GHz


5.5GHz


5.85GHz

#5 Test Result