



Specifications Sheet

Object	External Dipole Antenna	Page	1 of 11
Customer	WINiZEN	Date	August 19, 2005
System	WLAN IEEE 802.11 b/g/a	Rev.	B
Model Name	W5E-WO-03	Written by	W. I. KWAK

Electrical Specifications

Frequency Range (MHz)	2400 ~ 2483.5	5000 ~ 5875
Band Width (MHz)	83.5	875
V.S.W.R (Min)	1.9 : 1	1.9 : 1
Gain (Max)	2.5 (dBi)	3.5 (dBi)
Input Impedance	50 (Ω)	
Polarization	Linear	

Mechanical Specifications

Antenna Size (Width x Length x Height)	102.8 × 11 mm
Weight	12.5 g
Radiator Material	Copper
Operation Temperature	- 30 ~ 70 ($^{\circ}\text{C}$)
Operation Humidity	10 ~ 90 (%)

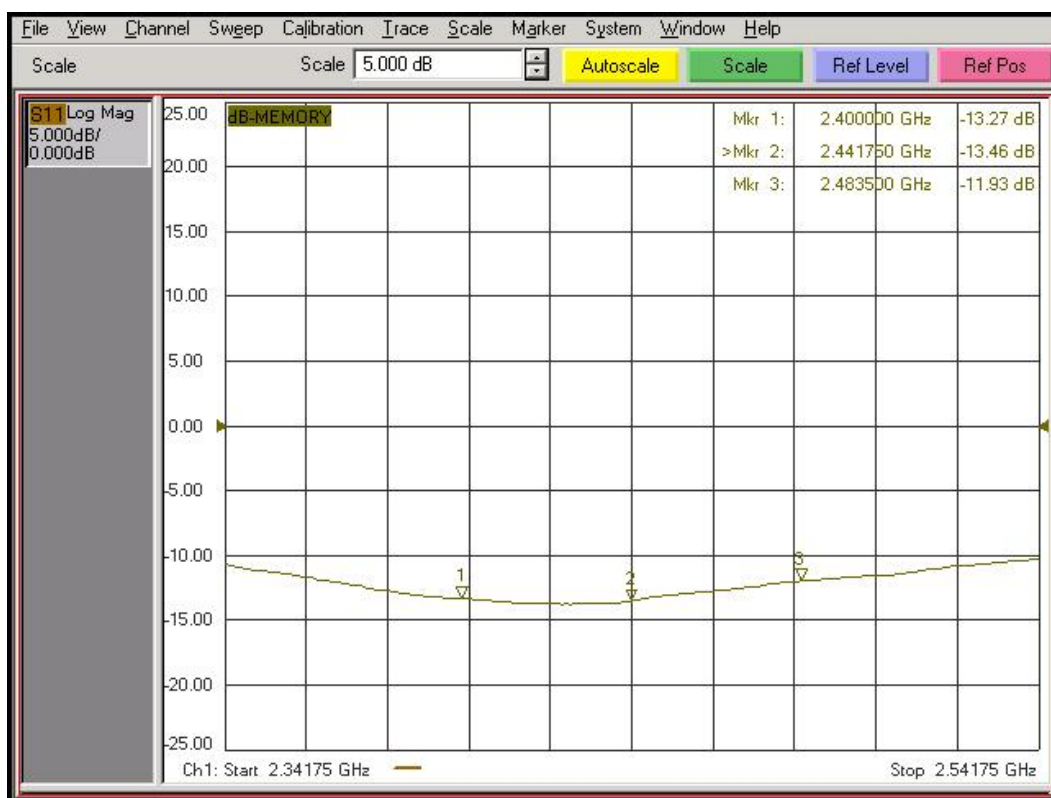
Option	
Remarks	

WINiZEN Co., Ltd.

Fig 1. Return Loss (Agilent E8357A 300KHz ~ 6GHz PNA Series Network Analyzer)



2400MHz ~ 2483.5MHz



5000MHz ~ 5875MHz

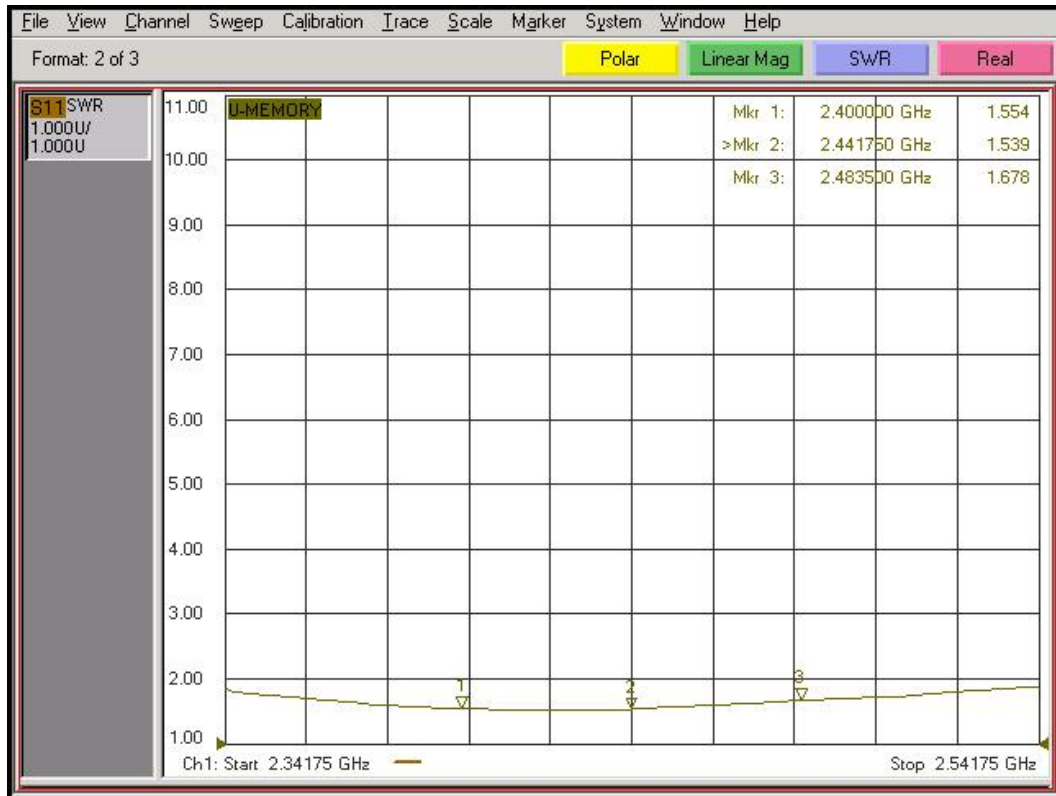


Fig 2. V.S.W.R (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)





2400MHz ~ 2483.5MHz



5000MHz ~ 5875MHz

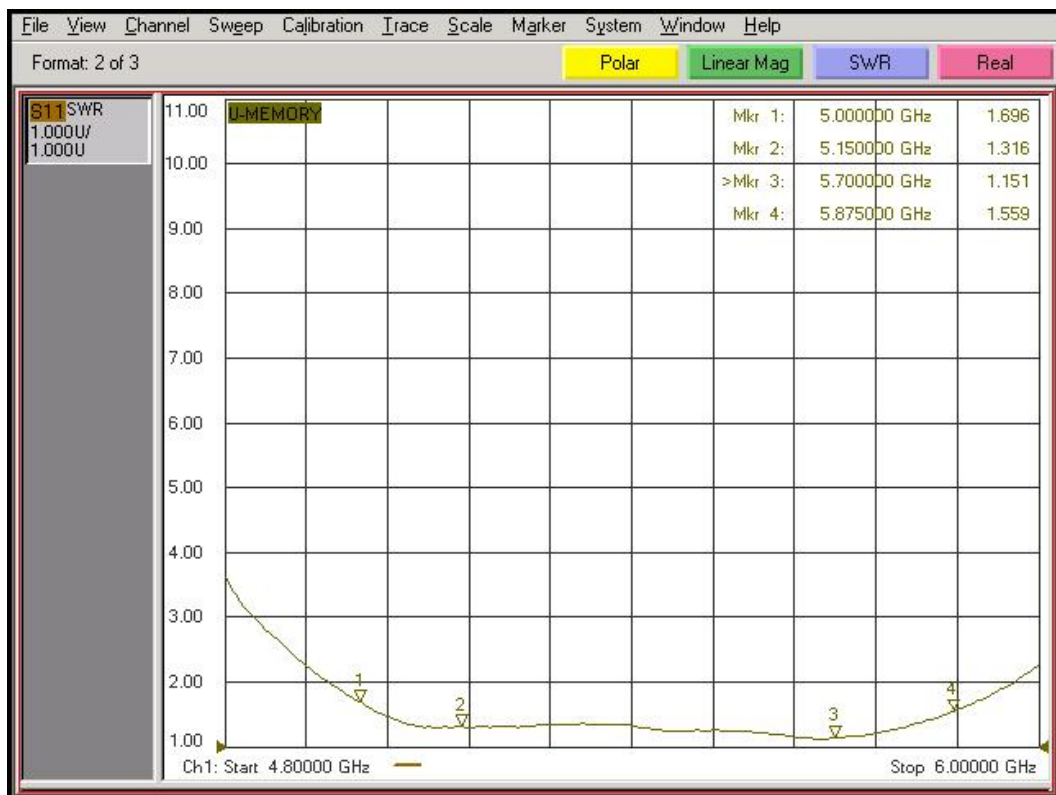
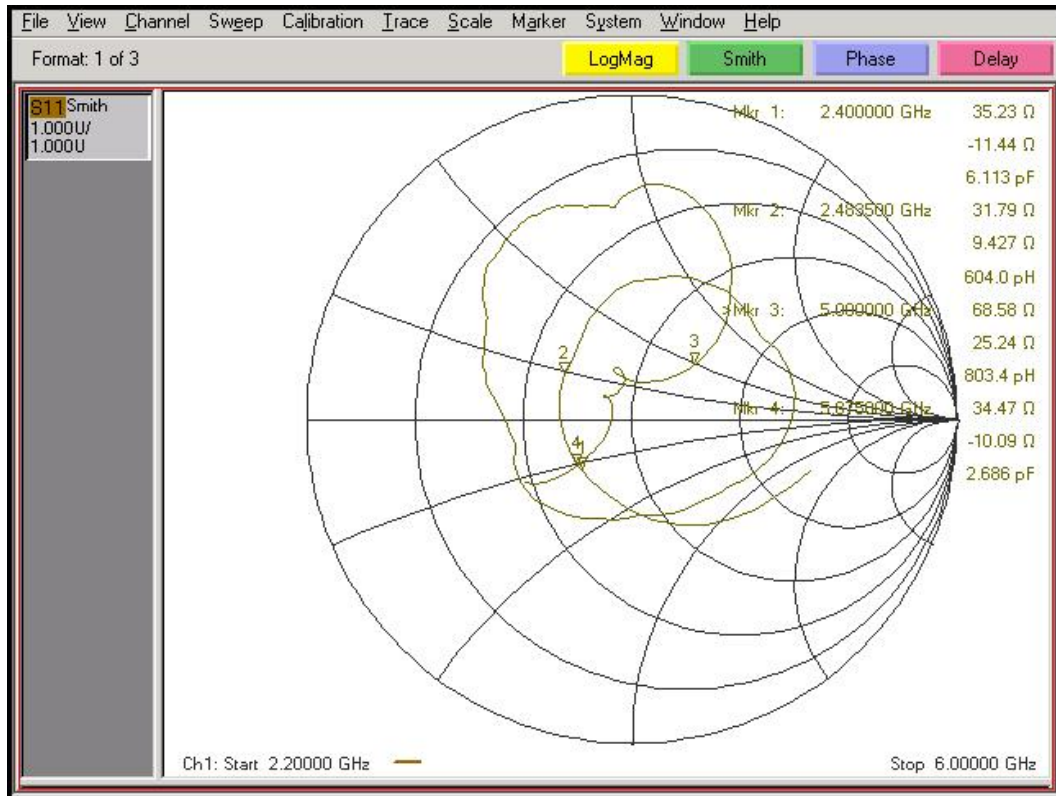
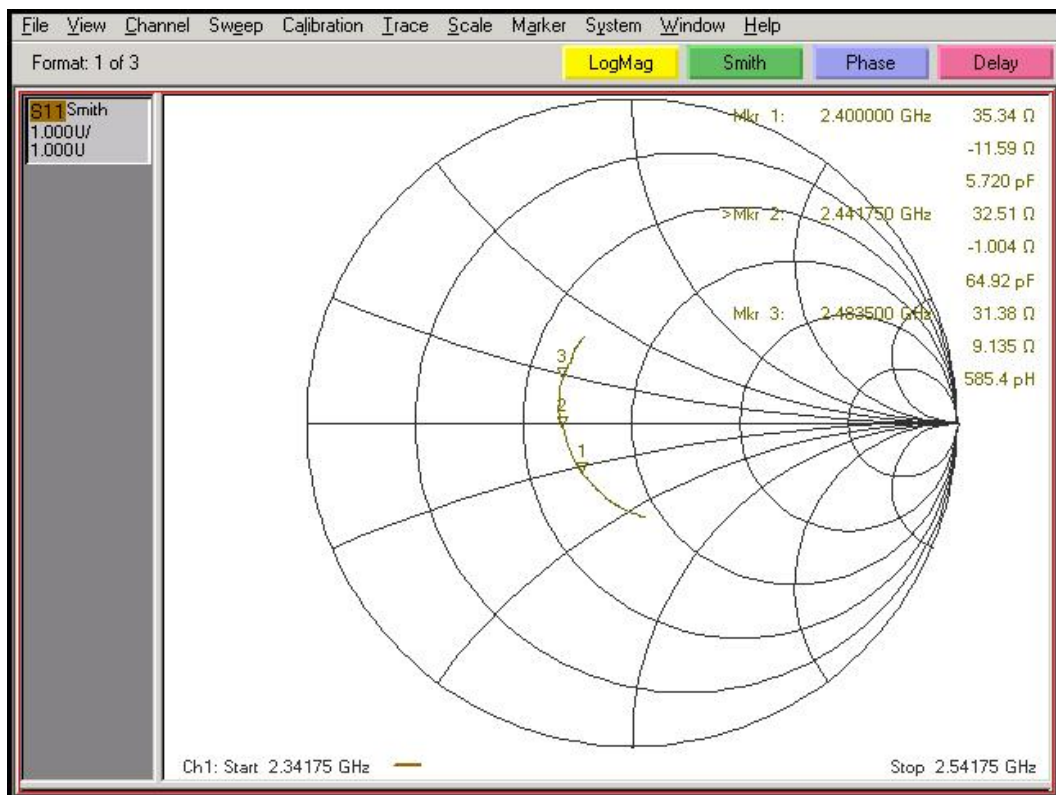


Fig 3. Smith Chart (Agilent E8357A 300KHz ~ 6GHz PNA Series Network Analyzer)



2400MHz ~ 2483.5MHz



5000MHz ~ 5875MHz

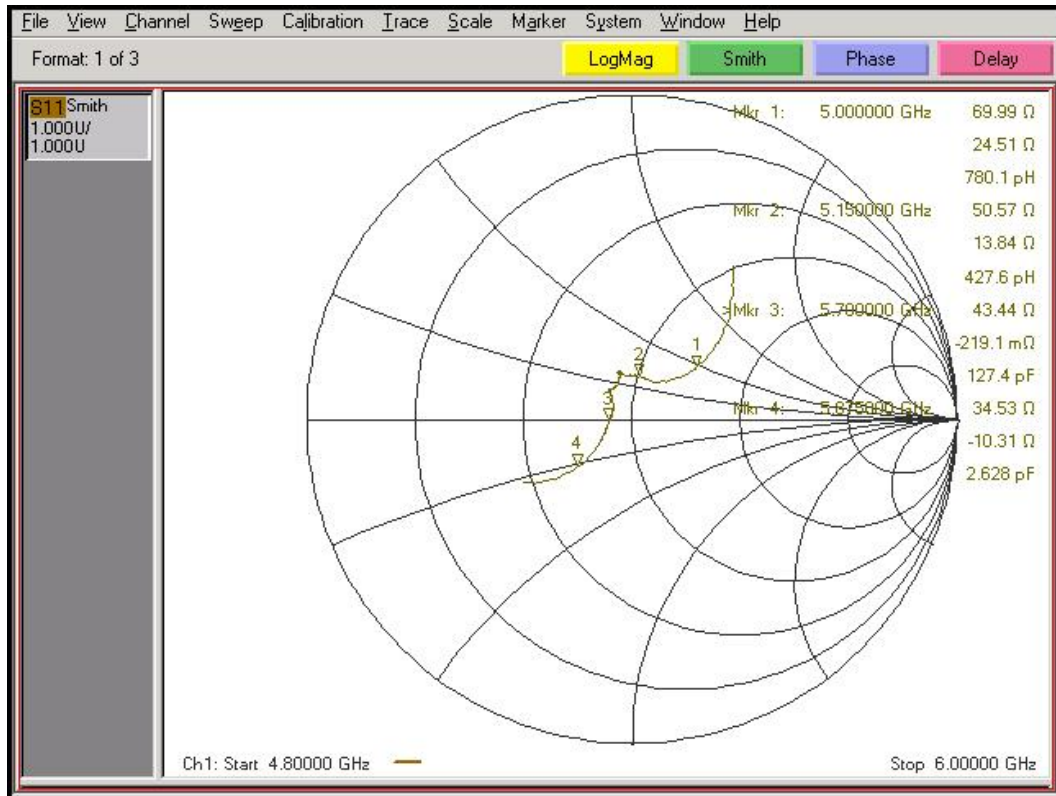


Fig 4. Measurement Configuration

(Hewlett Packard 8722ES 50 MHz ~ 40 GHz S-Parameter Network Analyzer)

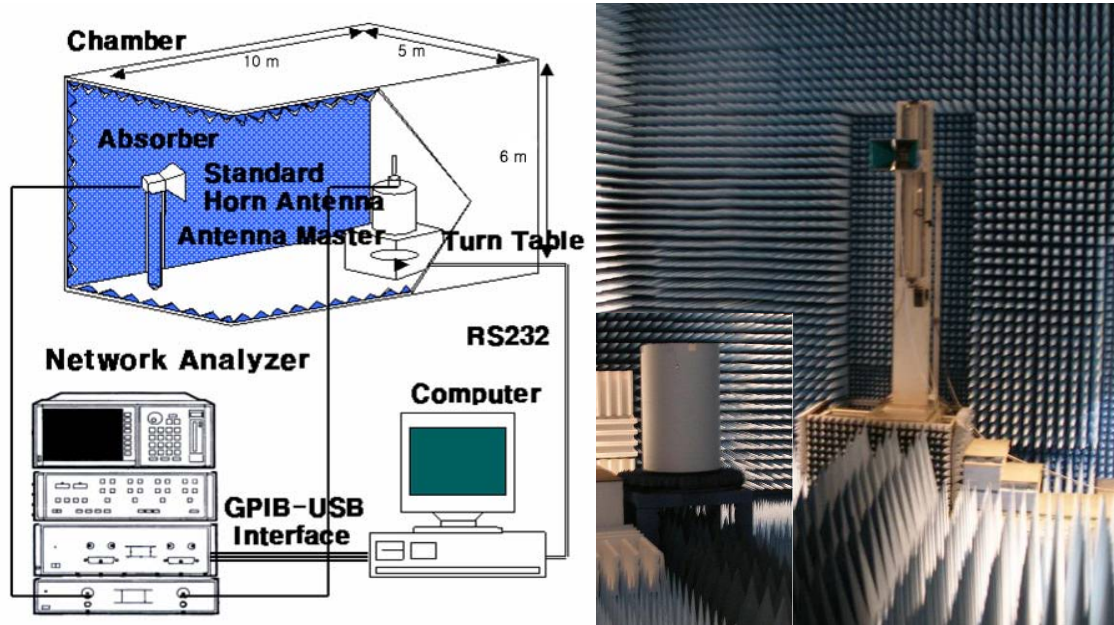


Fig 5. Axis Definitions (Antenna Center)

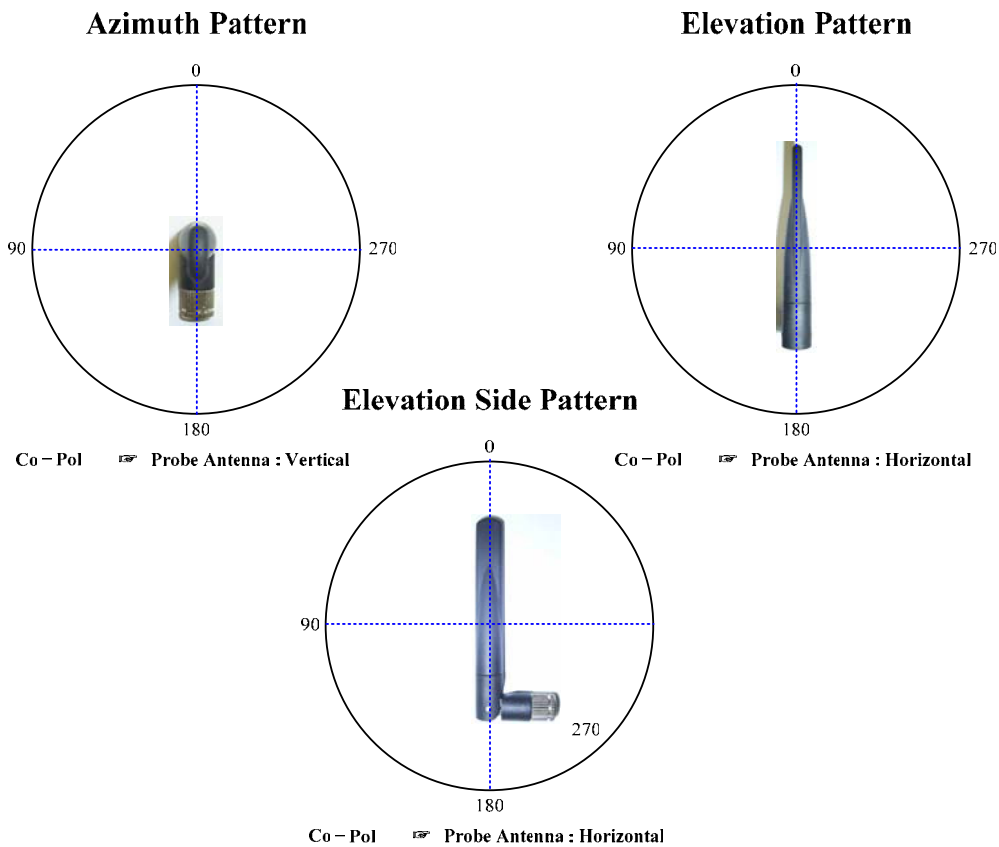
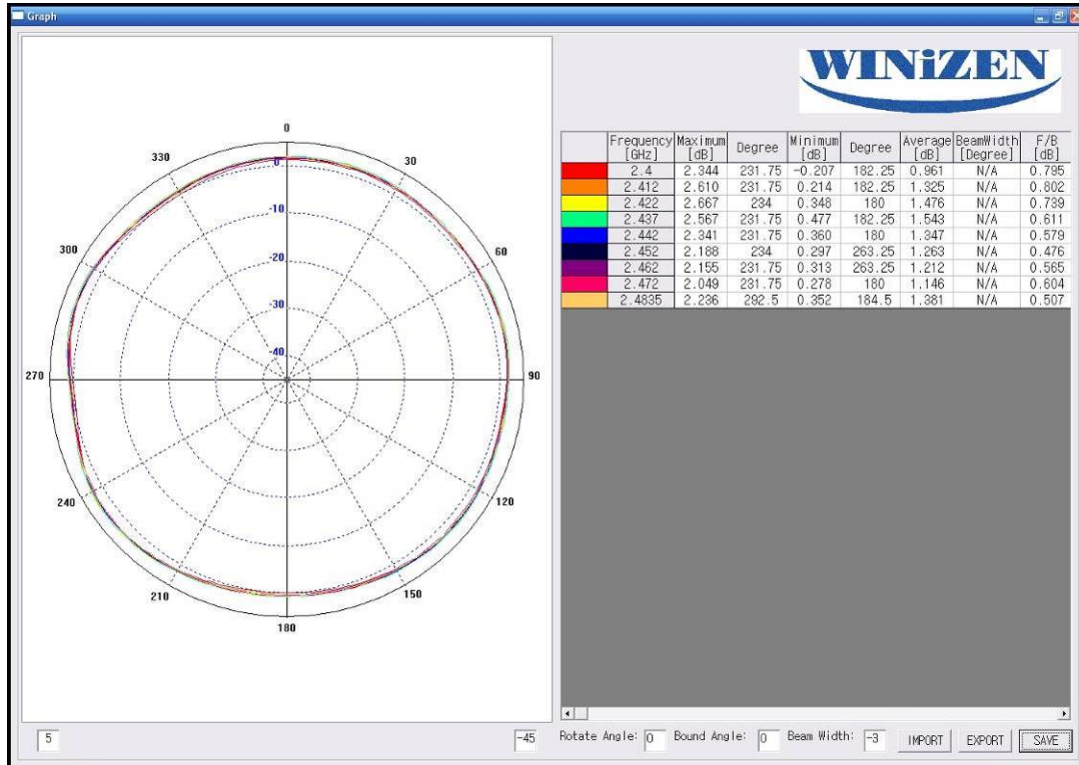


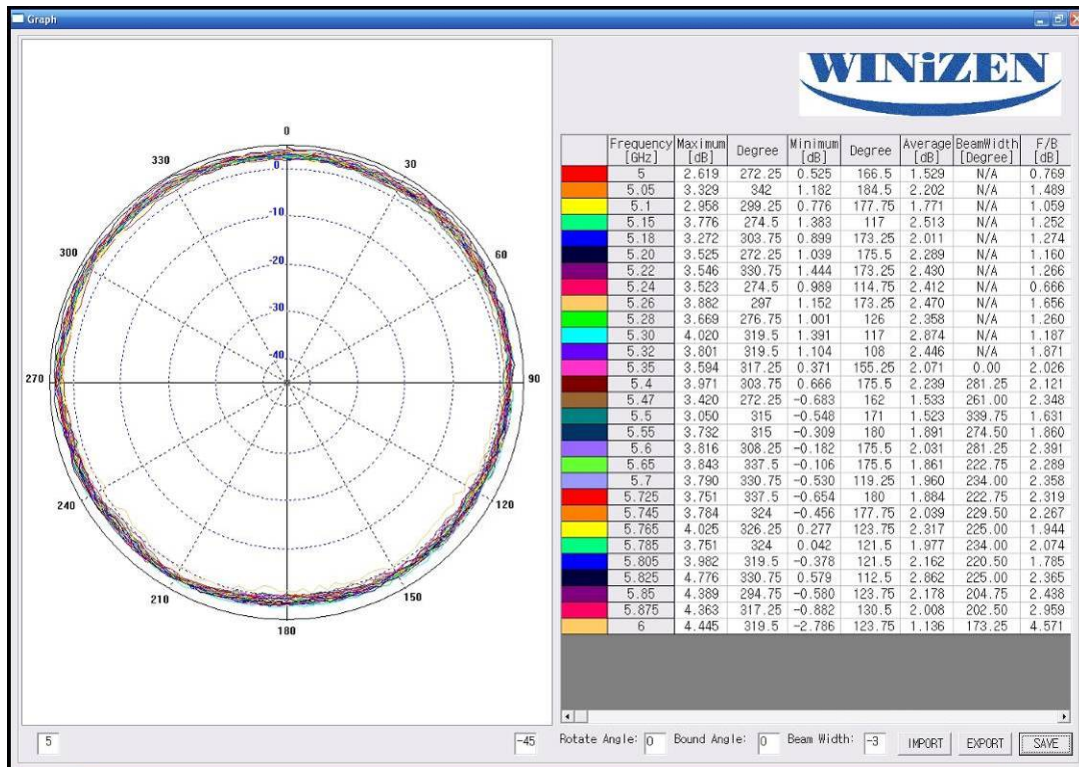
Fig 6. Gain Patterns

a. Azimuth Pattern

2400MHz ~ 2483.5MHz



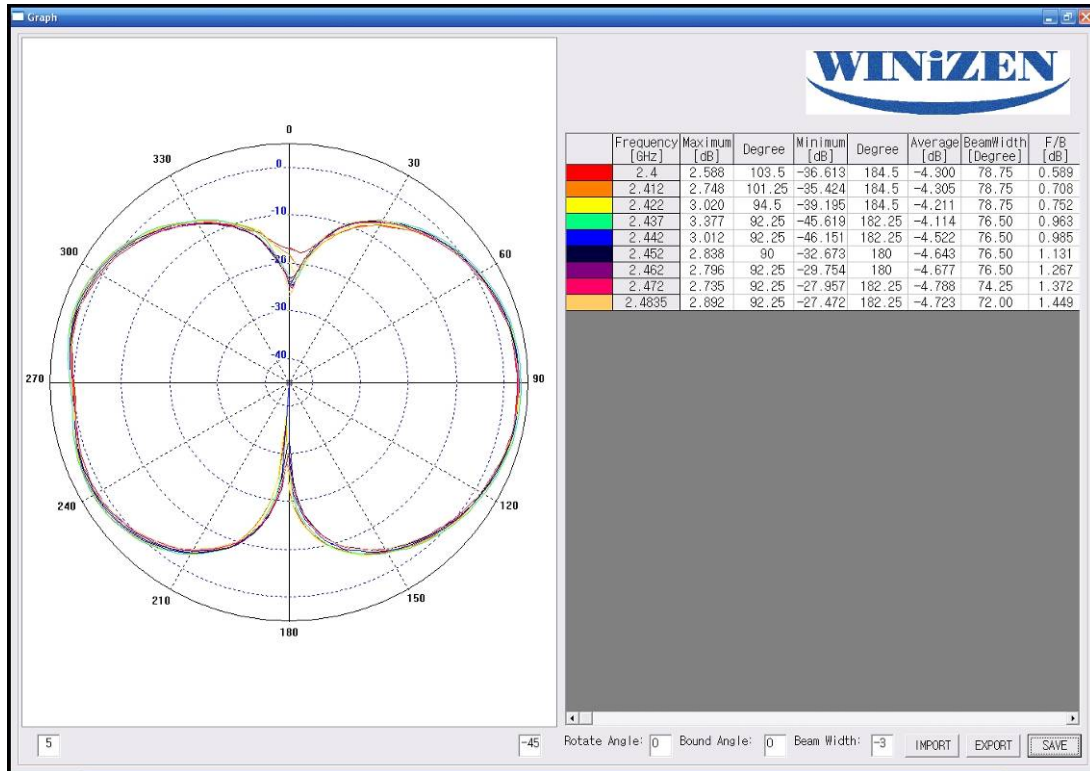
5000MHz ~ 6000MHz



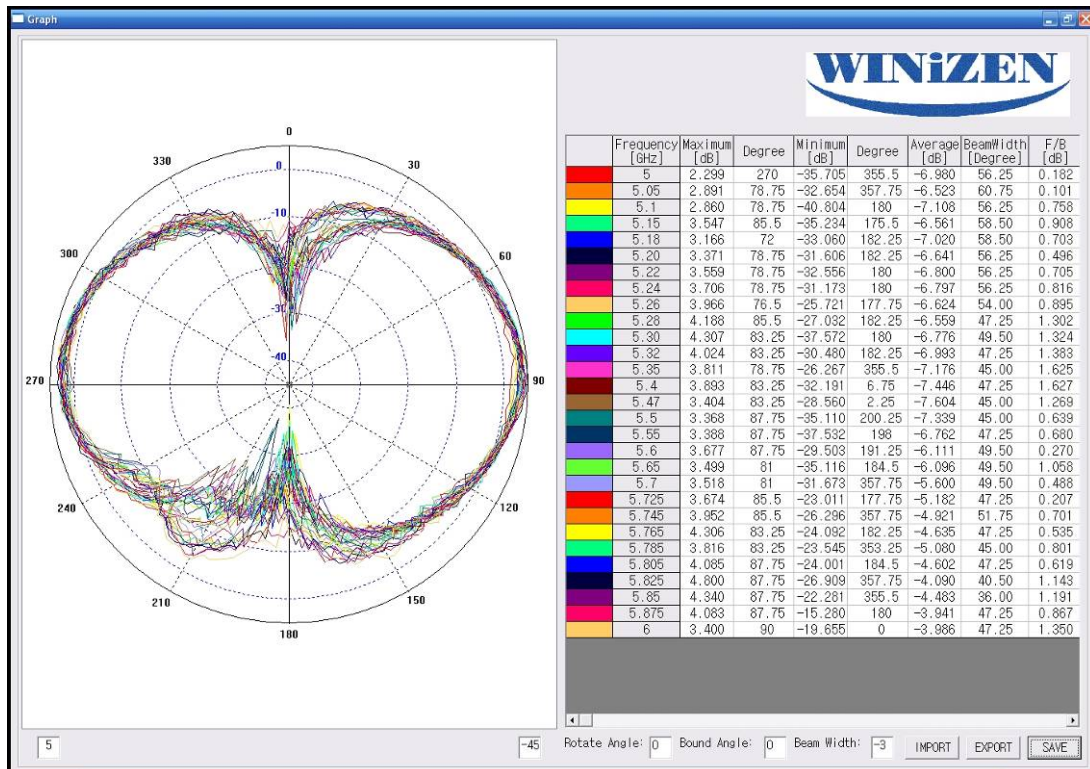


b. Elevation Pattern

2400MHz ~ 2483.5MHz



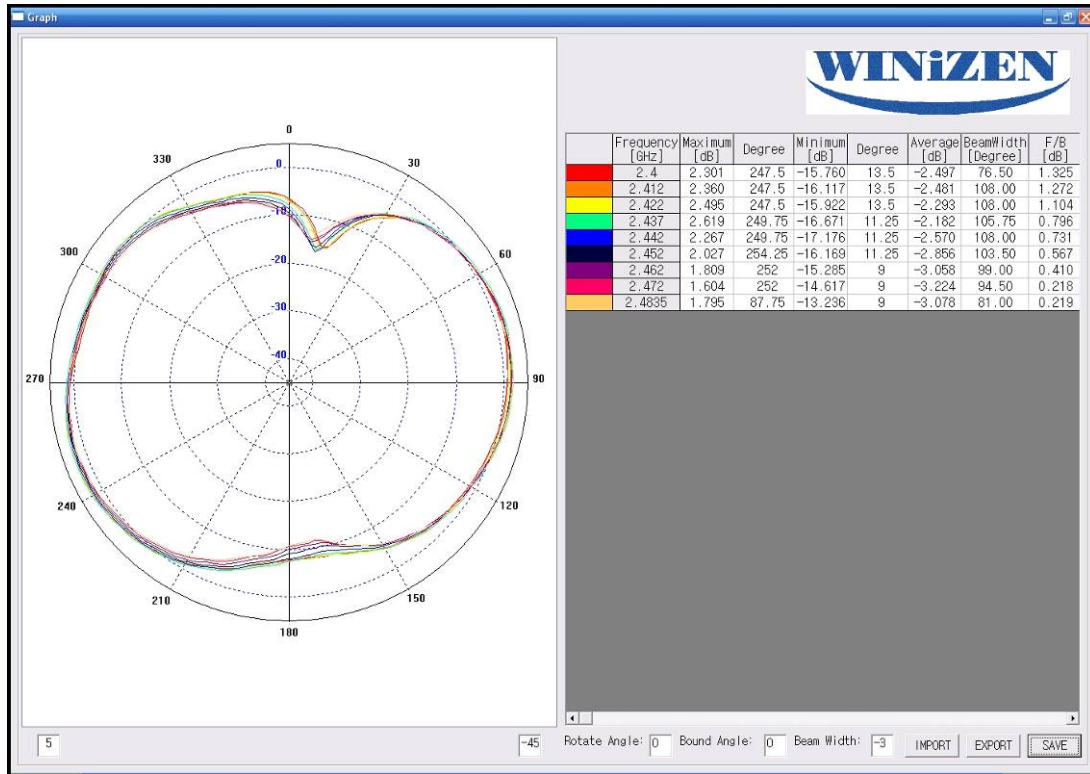
5000MHz ~ 6000MHz





c. Elevation Side Pattern

2400MHz ~ 2483.5MHz



5000MHz ~ 6000MHz

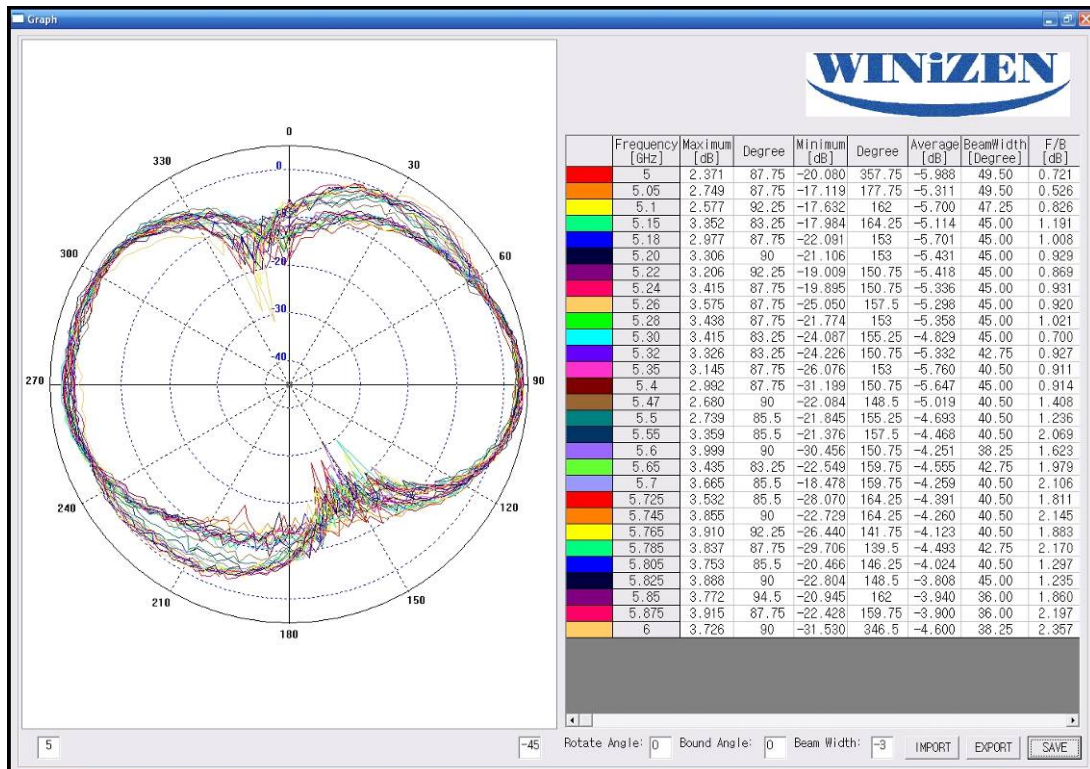


Fig 7. Antenna Mechanical

