



Specifications Sheet

Object	Internal Chip Antenna	Page	1 of 8
Customer	WINiZEN	Date	September 13, 2005
System	Bluetooth/ WLAN/Zigbee	Rev.	IR
Model Name	W5I-BF-XX	Written by	W. I. KWAK

Electrical Specifications

Frequency Range (MHz)	2400 ~ 2500
Band Width (MHz)	100
V.S.W.R (Min)	1.9 : 1
Gain (Max)	2 ± 0.5 (dBi)
Input Impedance	50 (Ω)
Polarization	Linear

Mechanical Specifications

Antenna Size (Width x Length x Height)	10 × 4 × 1.2 mm
Weight	N / A
Radiator Material	Copper
Operation Temperature	- 30 ~ 90 ($^{\circ}\text{C}$)
Operation Humidity	10 ~ 90 (%)

Option	
Remarks	The performance data was measured with a test board. The performance will vary in specific applications.

WINiZEN Co., Ltd.

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

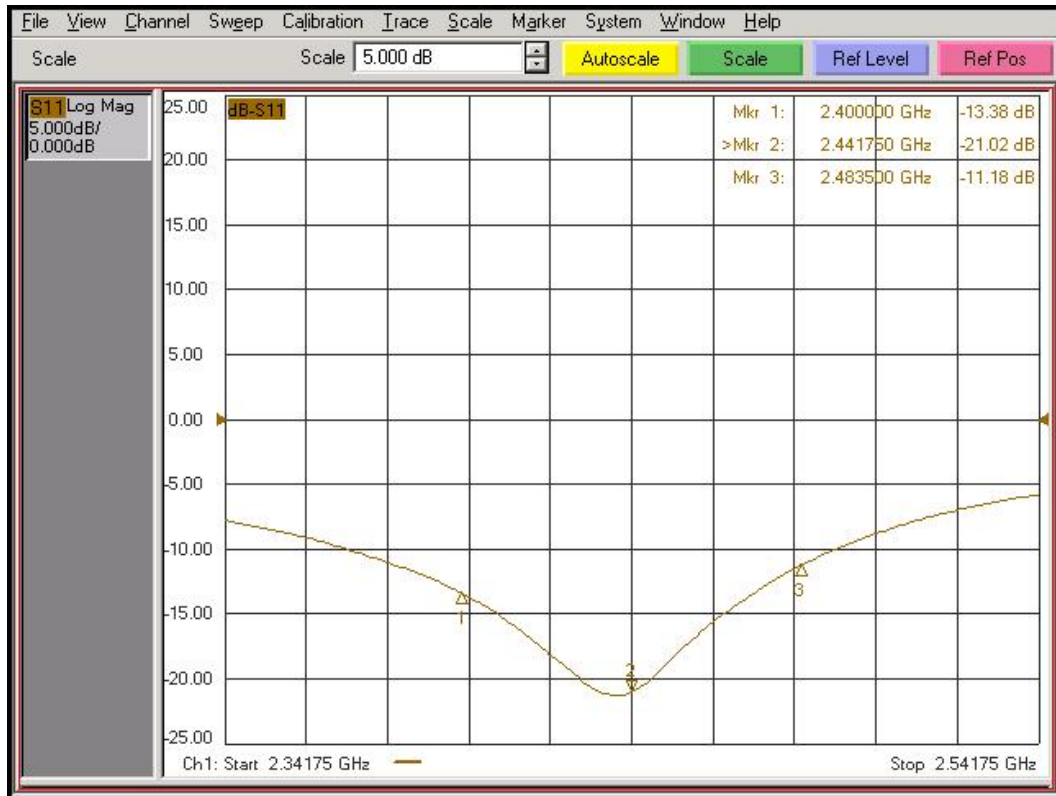


Fig 2. V.S.W.R (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)

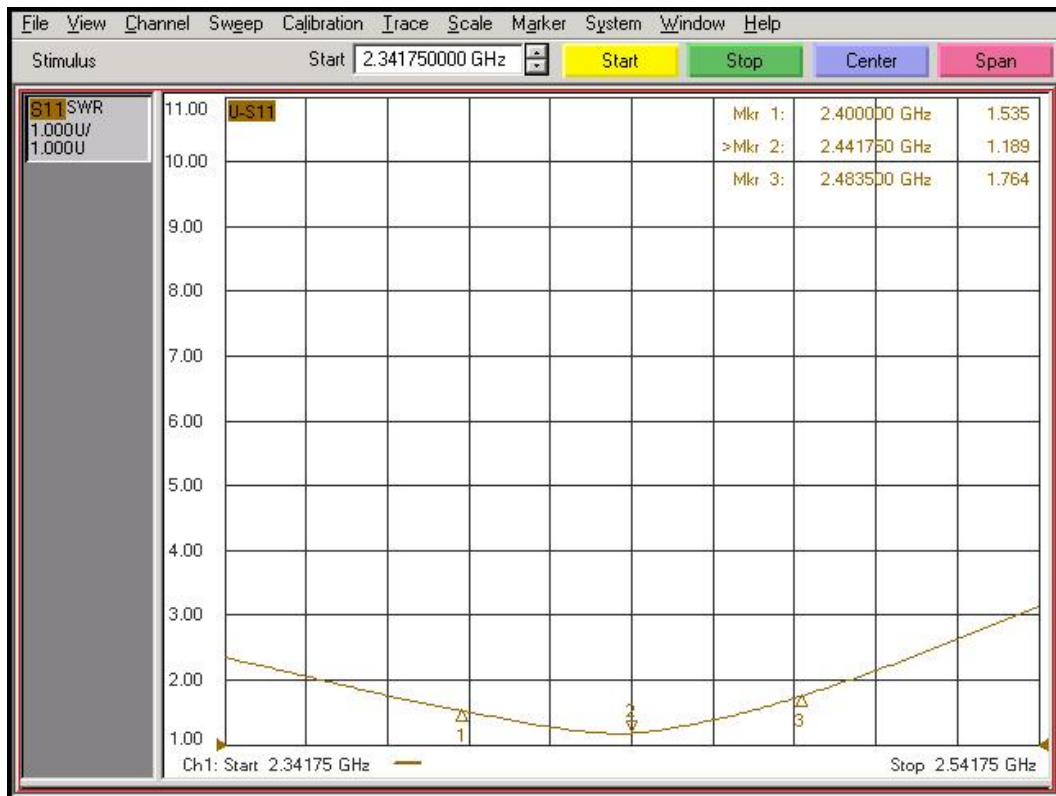


Fig 3. Measurement Configuration

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

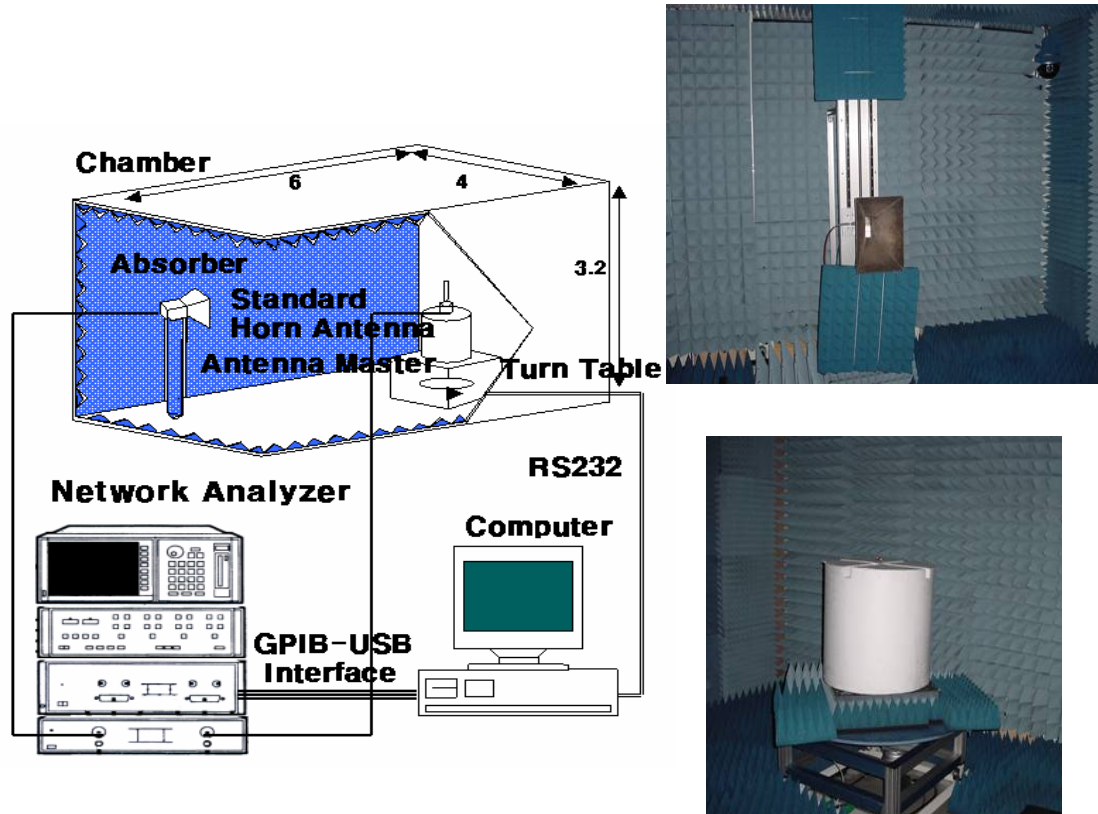
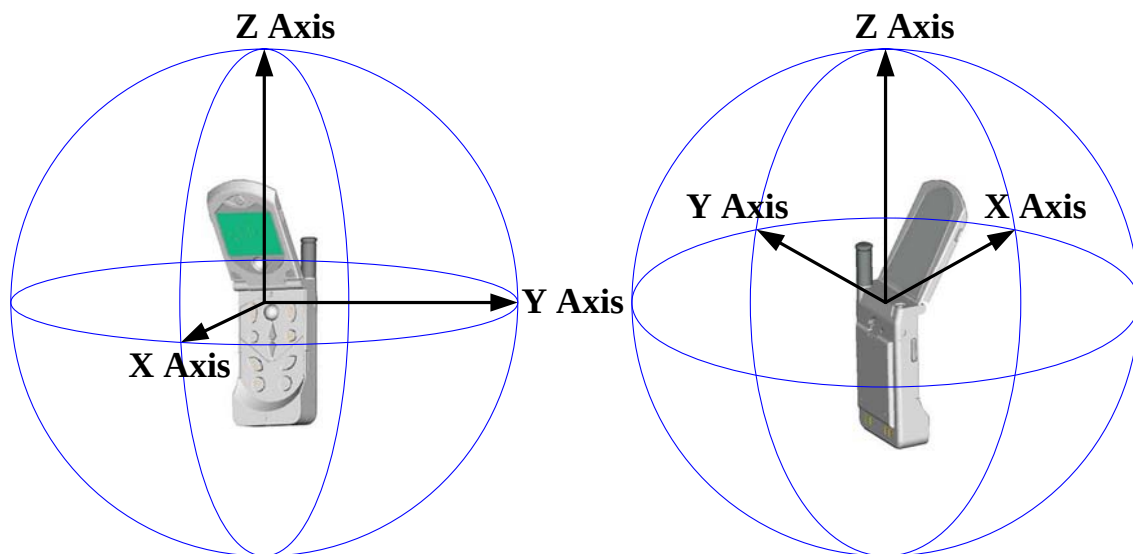


Fig 4. Axis Definitions (Antenna Center)



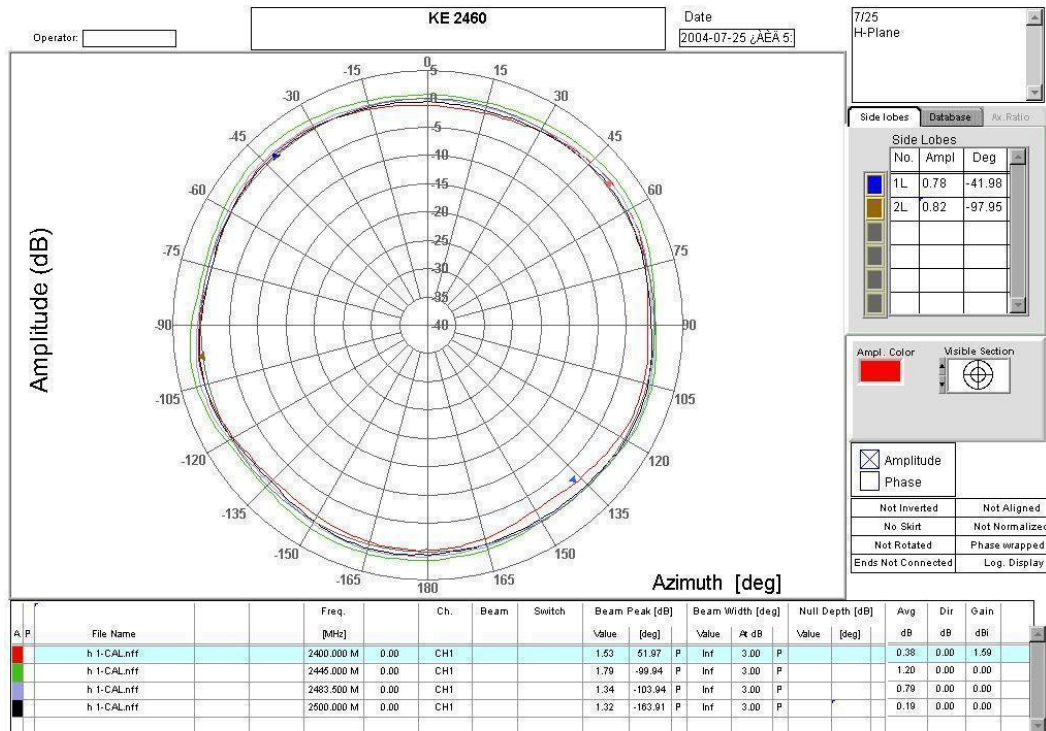
a. Azimuth Pattern : XY Plane ; Horn Antenna Polarization : Vertical

b. Elevation Pattern : XZ Plane ; Horn Antenna Polarization : Horizontal



Fig 5. Gain Patterns

a. Azimuth Pattern



b. Elevation Pattern

