



## Specifications Sheet

<b>Object</b>	Internal Chip Antenna	<b>Page</b>	1 of 5
<b>Customer</b>		<b>Date</b>	January 23, 2007
<b>System</b>	Bluetooth	<b>Rev.</b>	IR
<b>Model Name</b>	W5I-BF-RD06	<b>Written by</b>	

### Electrical Specifications

<b>Frequency Range ( MHz )</b>	2400 ~ 2483.5
<b>Band Width ( MHz )</b>	83.5
<b>V.S.W.R ( Min )</b>	1.9 : 1
<b>Gain ( Max )</b>	1 ± 1 ( dBi )
<b>Input Impedance</b>	50 ( Ω )
<b>Polarization</b>	Linear

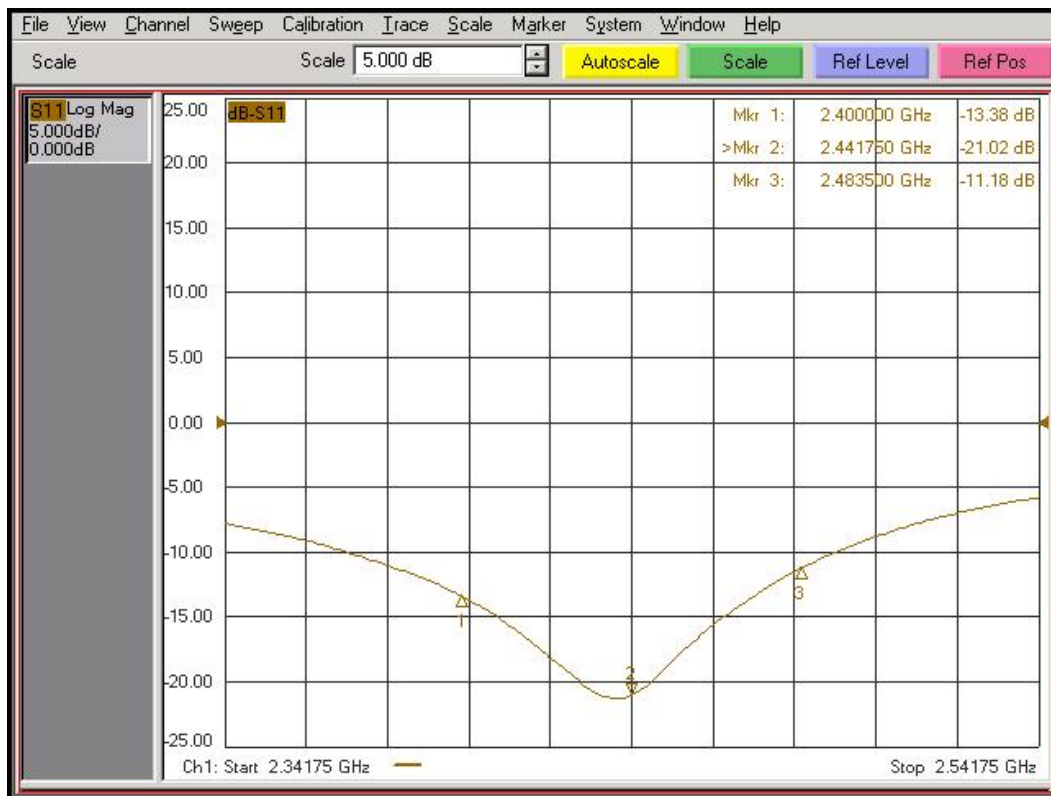
### Mechanical Specifications

<b>Antenna Size ( Width x Length x Height )</b>	10 × 4 × 1.2 mm
<b>Weight</b>	N / A
<b>Radiator Material</b>	Copper
<b>Operation Temperature</b>	- 30 ~ 90 ( °C )
<b>Operation Humidity</b>	10 ~ 90 ( % )

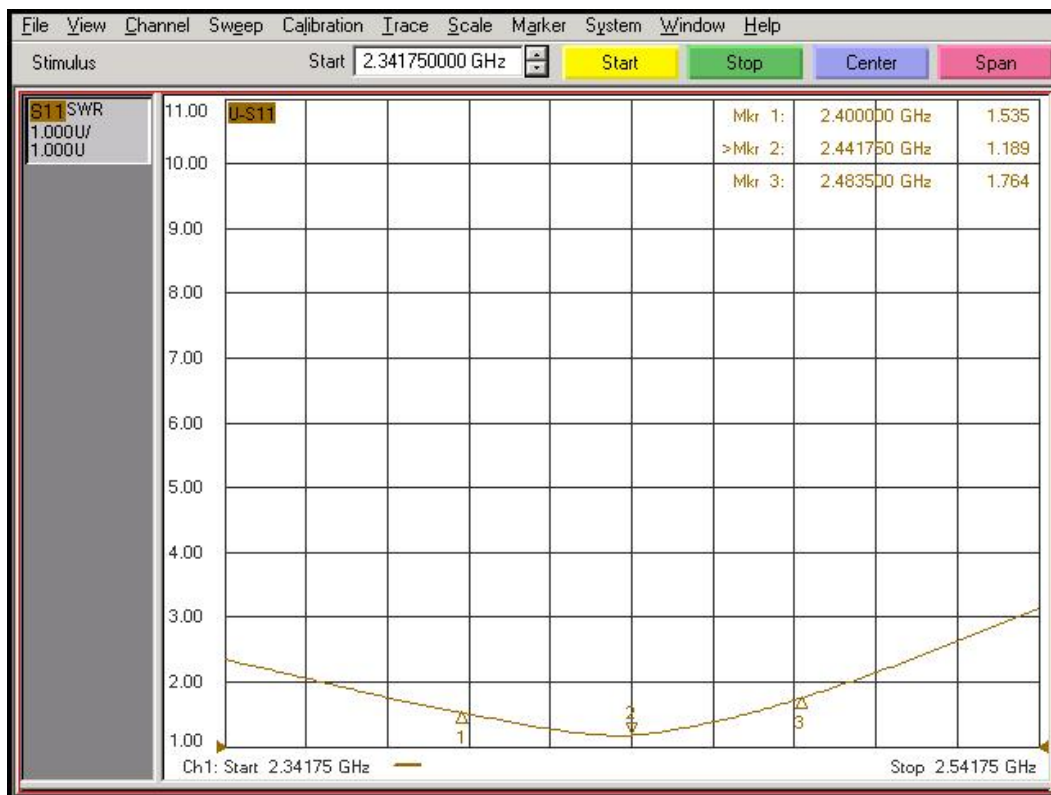
<b>Option</b>	
<b>Remarks</b>	

**WINiZEN Co., Ltd.**

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

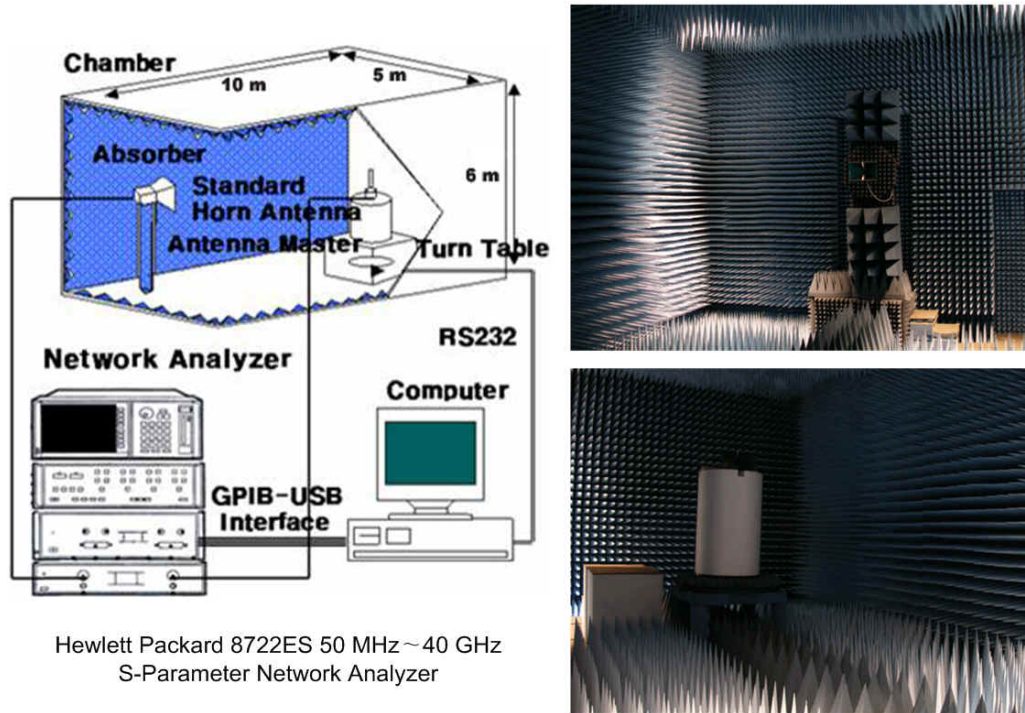


**Fig 2. V.S.W.R** (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)

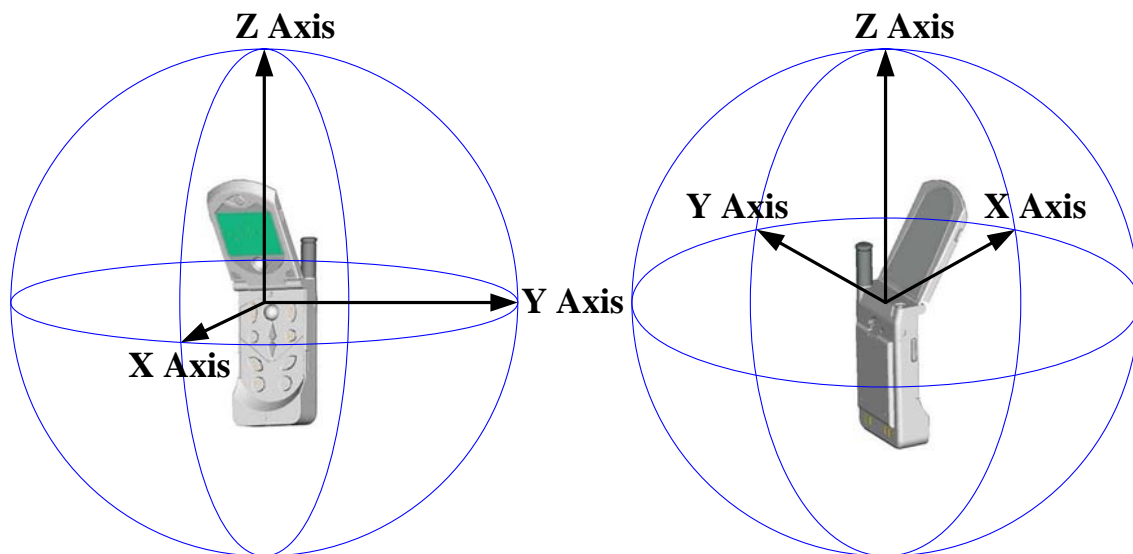


**Fig 3. Measurement Configuration**

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



**Fig 4. Axis Definitions (Antenna Center)**



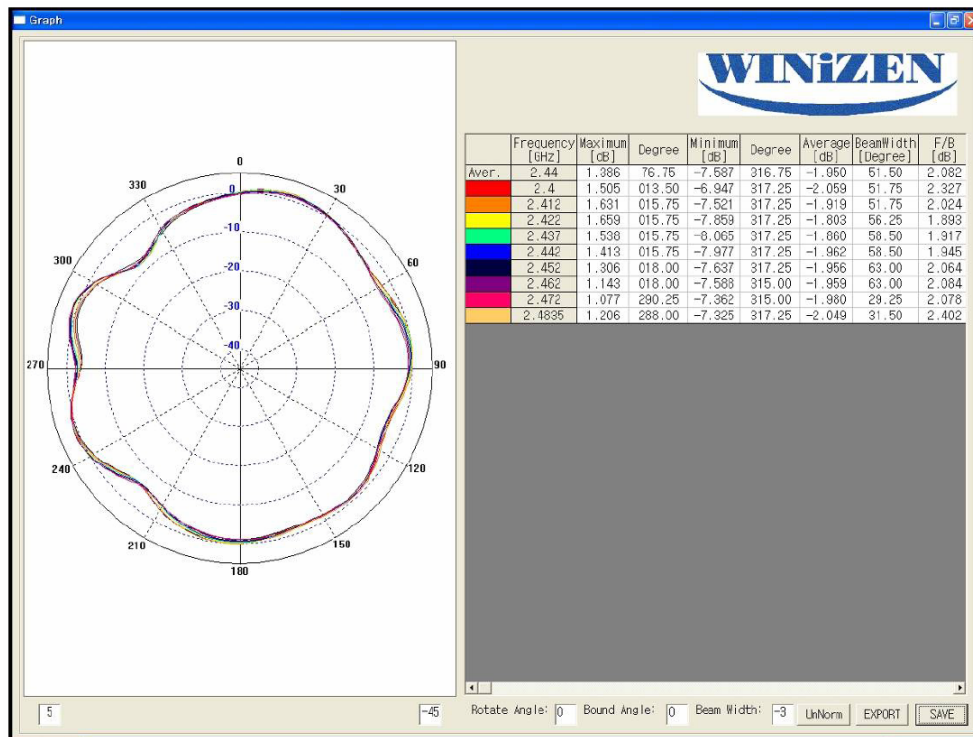
a. Azimuth Pattern : XY Plane ; Horn Antenna Polarization : Vertical

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

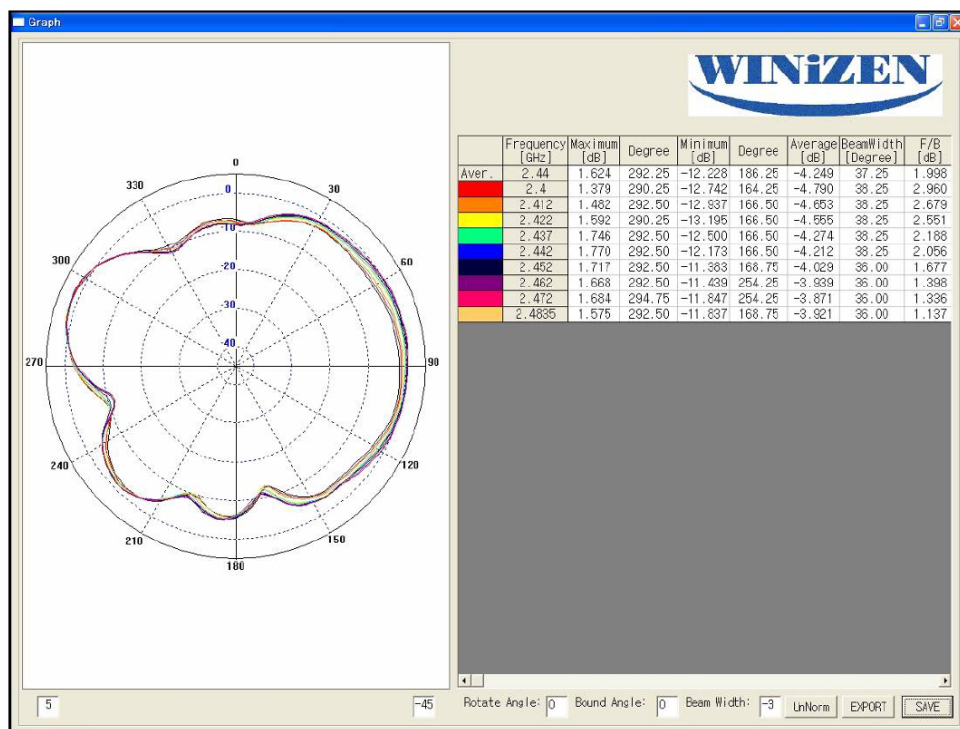


**Fig 5. Gain Patterns**

**a. Azimuth Pattern**



**b. Elevation Pattern**





**Fig 6. Antenna Mechanical**

