

### **Specifications Sheet Object** 1 of 7 External Dipole Antenna Page August 19, 2005 Customer **Date System** WLAN/ Bluetooth/ Zigbee Rev. В **Model Name** W5E-WO-03 Written by **Electrical Specifications** 2400 ~ 2483.5 Frequency Range (MHz) 83.5 Band Width (MHz) 1.9:1 V.S.W.R (Min) Gain (Max) $3 \pm 0.5$ (dBi) $50(\Omega)$ **Input Impedance Polarization** Linear **Mechanical Specifications** Antenna Size (Length x Diameter) $102.8 \times 11 \text{ mm}$ Weight $12.5 \pm 2 \text{ g}$ **Radiator Material** Copper -20 ∽ 70 (°C) **Operation Temperature Operation Humidity** 10 - 90(%)**Option** Remarks

# 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)

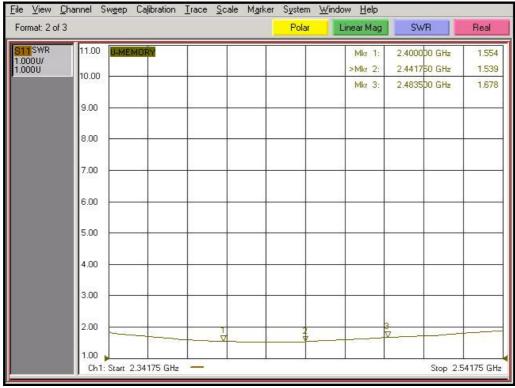




Fig 3. Smith Chart (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)

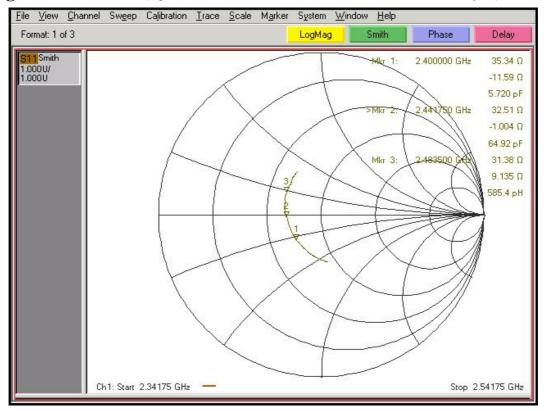




Fig 4. Measurement Configuration

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

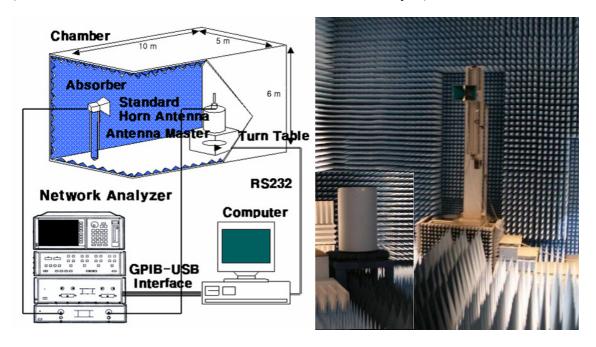
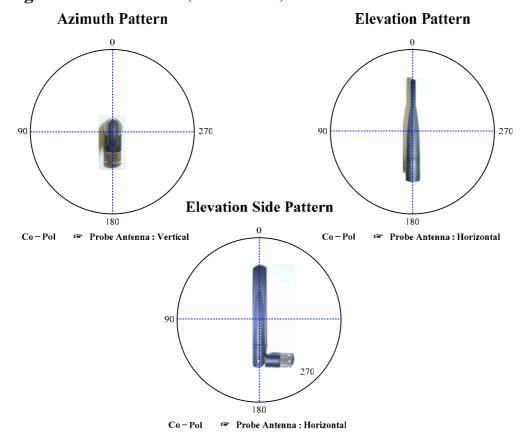


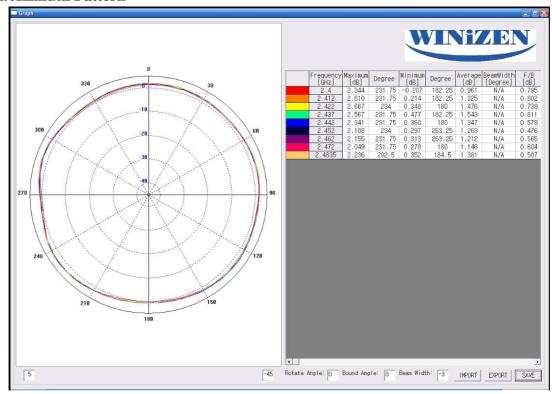
Fig 5. Axis Definitions (Antenna Center)



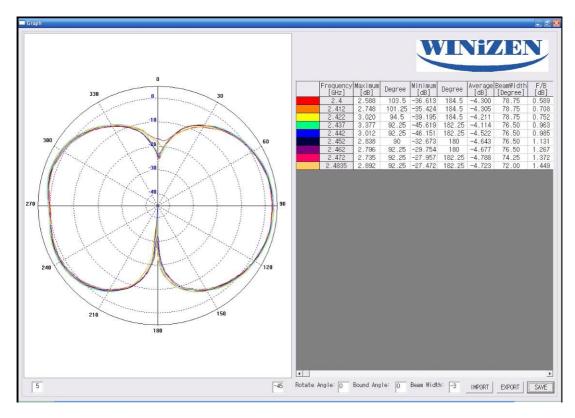


## Fig 6. Gain Patterns

#### a. Azimuth Pattern



#### **b.** Elevation Pattern





#### c. Elevation Side Pattern

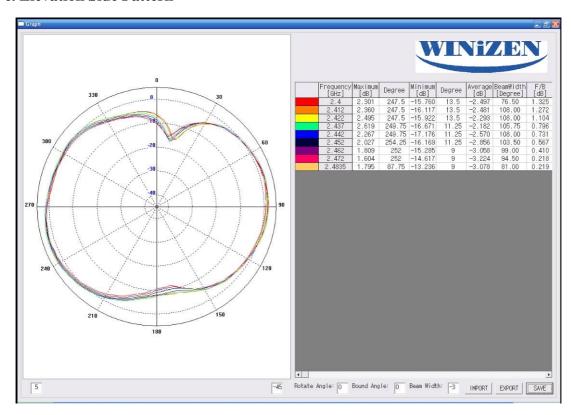




Fig 7. Antenna Mechanical

