

# Measurement report

|          |                               |
|----------|-------------------------------|
| Customer | PANTECH                       |
| Subject  | Bluetooth antenna Test Result |
| Author   | Wang. Soon Phil               |
| Revision | -                             |
| Date     | 2009. 10. 19.                 |
| Model    | SLALOM                        |
| Band     | Bluetooth Band                |

## ☐ **ACE antenna test for SLALOM**

Test result (Pantech SLALOM)

- Passive performance (Return loss, efficiency)

## Section I. **Test results of Bluetooth Antenna**

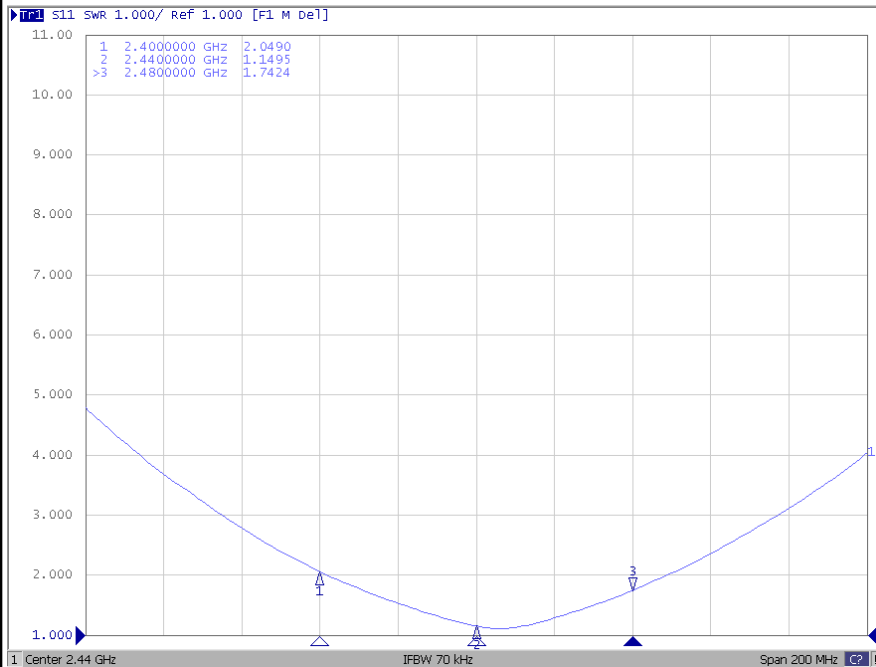
---

## Return loss test result (Free-space)

### < Test condition >

- Test site : Network Analyzer E5071B
- Humidity / Temperature : 60% / 25°C
- Test phone : SLALOM

### Free space – Bluetooth Antenna

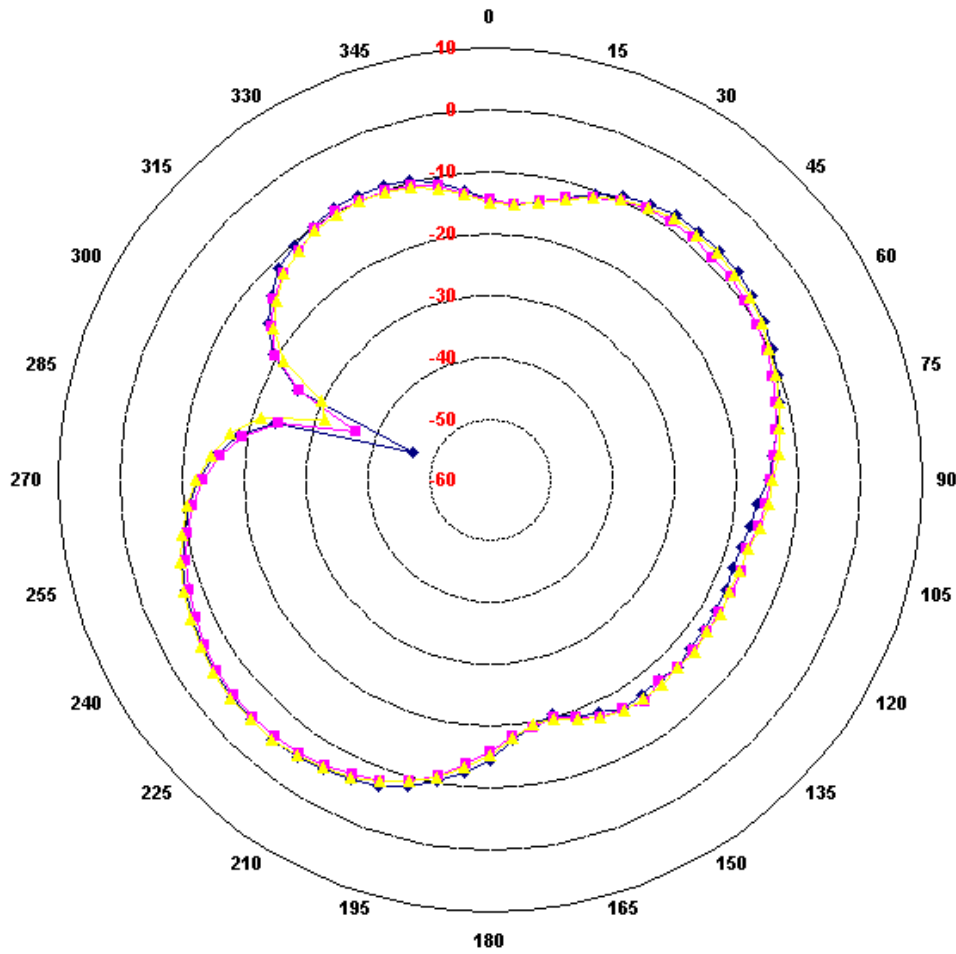


## ❑ Efficiency test result (Free-space)

### < Test condition >

- Test site : ACE anechoic chamber (2.6x2.6x3m)
- Humidity / Temperature : 60% / 25°C
- Test phone : SLALOM

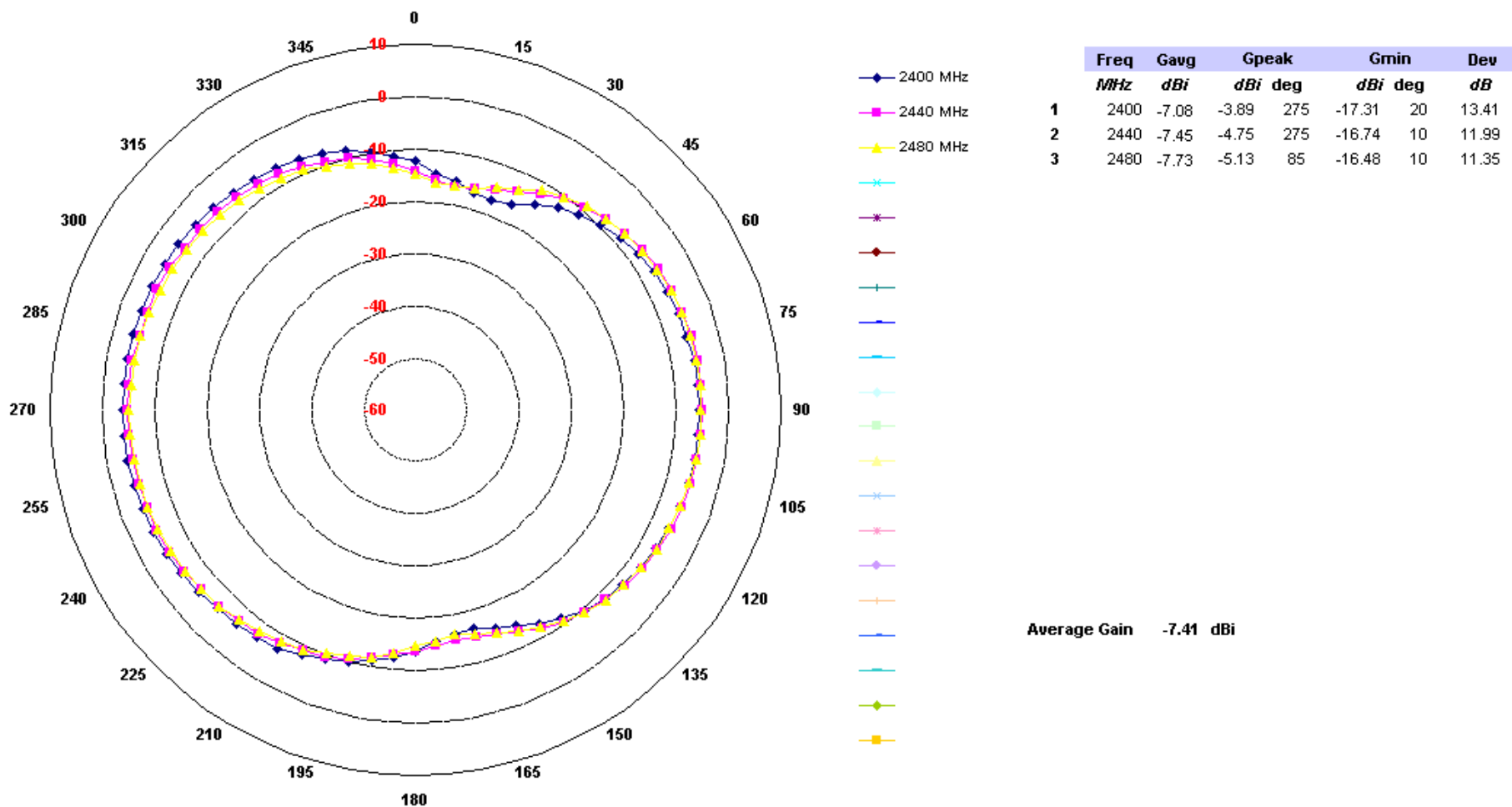
| Bluetooth Antenna |                 |            |      |
|-------------------|-----------------|------------|------|
| Band              | Frequency (MHz) | Efficiency |      |
|                   |                 | dB         | %    |
| Bluetooth         | 2400            | -4.35      | 36.7 |
|                   | 2440            | -4.61      | 34.6 |
|                   | 2480            | -4.95      | 32.0 |



|          | <b>Freq</b> | <b>Gavg</b> | <b>Gpeak</b>   | <b>Gmin</b>    | <b>Dev</b> |     |       |
|----------|-------------|-------------|----------------|----------------|------------|-----|-------|
|          | <i>MHz</i>  | <i>dBi</i>  | <i>dBi deg</i> | <i>dBi deg</i> | <i>dB</i>  |     |       |
| <b>1</b> | 2400        | -10.35      | -5.11          | 220            | -46.53     | 290 | 41.42 |
| <b>2</b> | 2440        | -10.95      | -5.51          | 225            | -36.83     | 290 | 31.32 |
| <b>3</b> | 2480        | -10.56      | -5.05          | 225            | -31.43     | 290 | 26.37 |

**Average Gain -10.61 dBi**

E2



H