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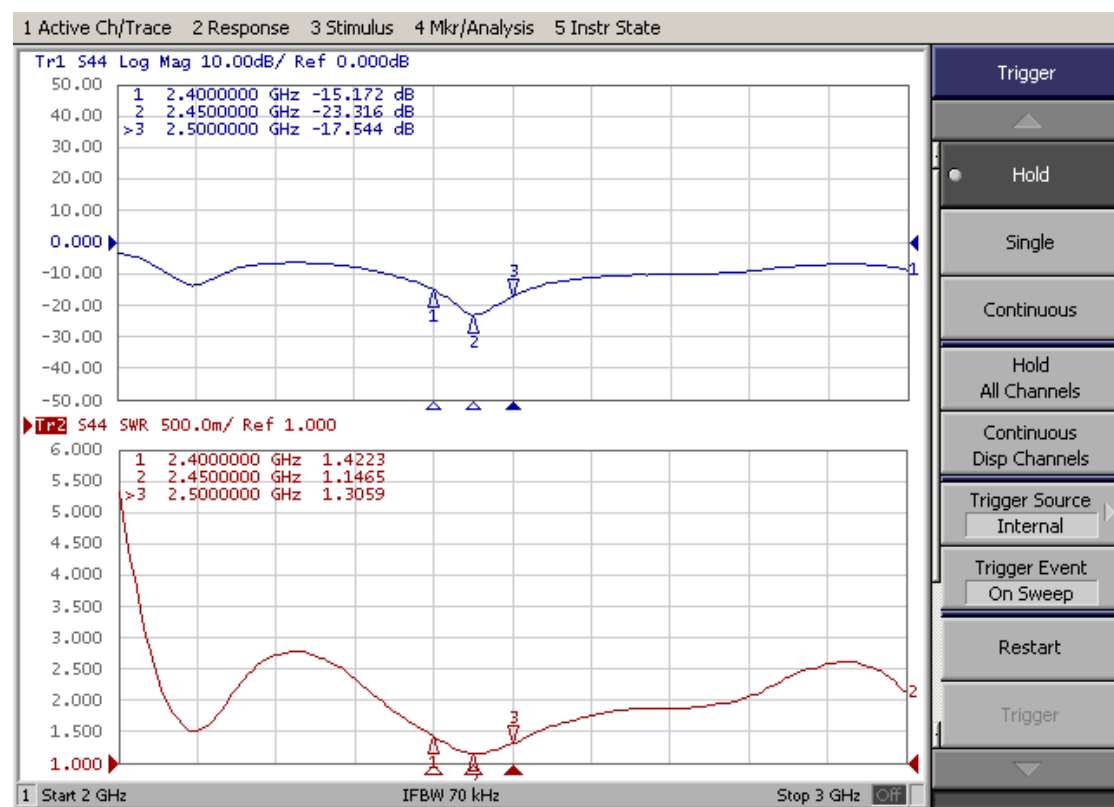
**1. Reliability Testing**

| <b>Test Item</b>                                | <b>Procedure</b>                                    | <b>Requirement</b>                                                                 |
|-------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------|
| <b>1. Visual inspection and Dimension Check</b> | Applicable methods using x5 magnification           | follow specification                                                               |
| <b>2. Rapid Changing of Temperature</b>         | -40°C (30minutes) to 80°C (30minutes);<br>24 cycles | After 2 hours recovery:<br>1. no visible damage<br>2. bandwidth tolerance<br>< ±5% |
| <b>3. Damp Heat</b>                             | 24 hours at 60°C;<br>90 ~ 95% RH                    | After 2 hours recovery:<br>1. no visible damage<br>2. bandwidth tolerance<br>< ±5% |
| <b>4. Endurance</b>                             | 24 hours at 80°C                                    | After 2 hours recovery:<br>1. no visible damage<br>2. bandwidth tolerance<br>< ±5% |
| <b>5. Connector Pull Strength Test</b>          | >= 1.0 Kg                                           | Hold 2~3S:<br>1. no visible damage<br>2. bandwidth tolerance<br>< ±5%              |

## 2. Specification

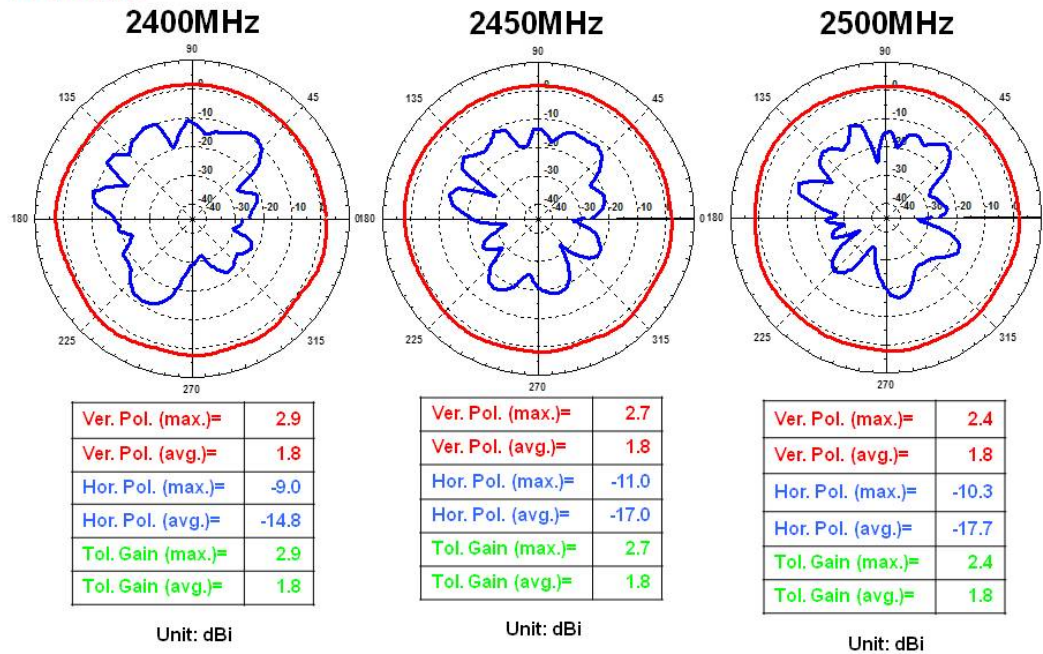
| A. Electrical Characteristics |                            |
|-------------------------------|----------------------------|
| S.W.R.( Tested in PC )        | $\leq 2.0$ @ 2400~2500 MHz |
| Typical Antenna Gain          | 1.0dBi                     |
| Impedance                     | 50 Ohm                     |
| B. Material                   |                            |
| Material of Radiator          | CU                         |
| Connector Type                | NA                         |
| C. Environmental              |                            |
| Operation Temperature         | - 30 °C ~ + 85 °C          |
| Storage Temperature           | - 30 °C ~ + 85 °C          |

## 3. S.W.R. Testing Result



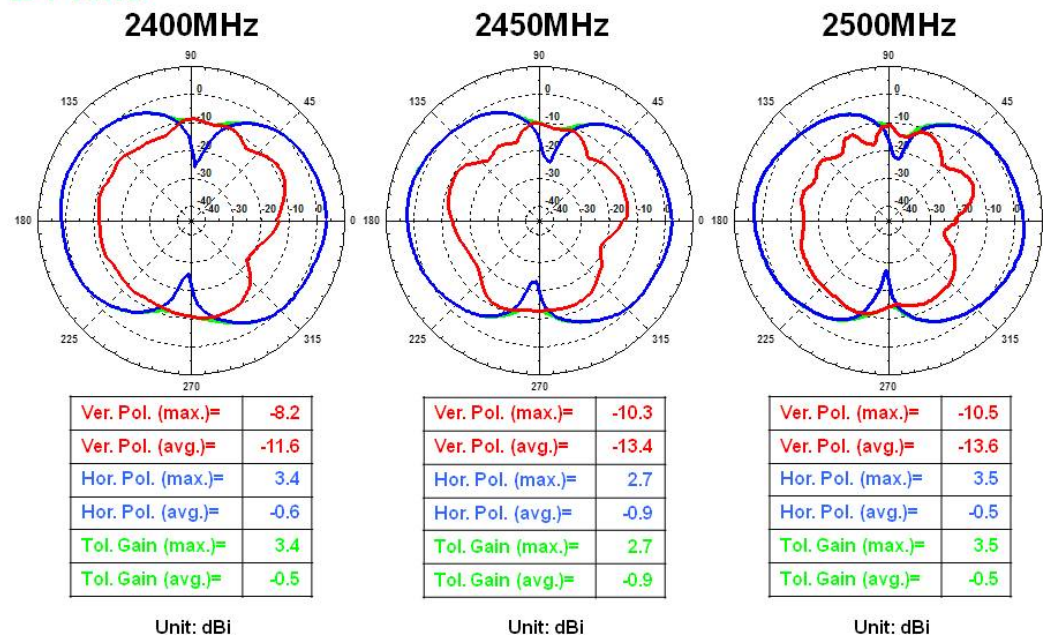
## Electrical Performance-Radiation Pattern and Gain

### H-Plane



## Electrical Performance-Radiation Pattern and Gain

### E-Plane



## 4. Antenna Radiation Pattern

### Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

