




Product Number: BGS-AN5800-20600G
Product Name: Fiberglass Antenna 5.8GHz 10dBi

1. Specification

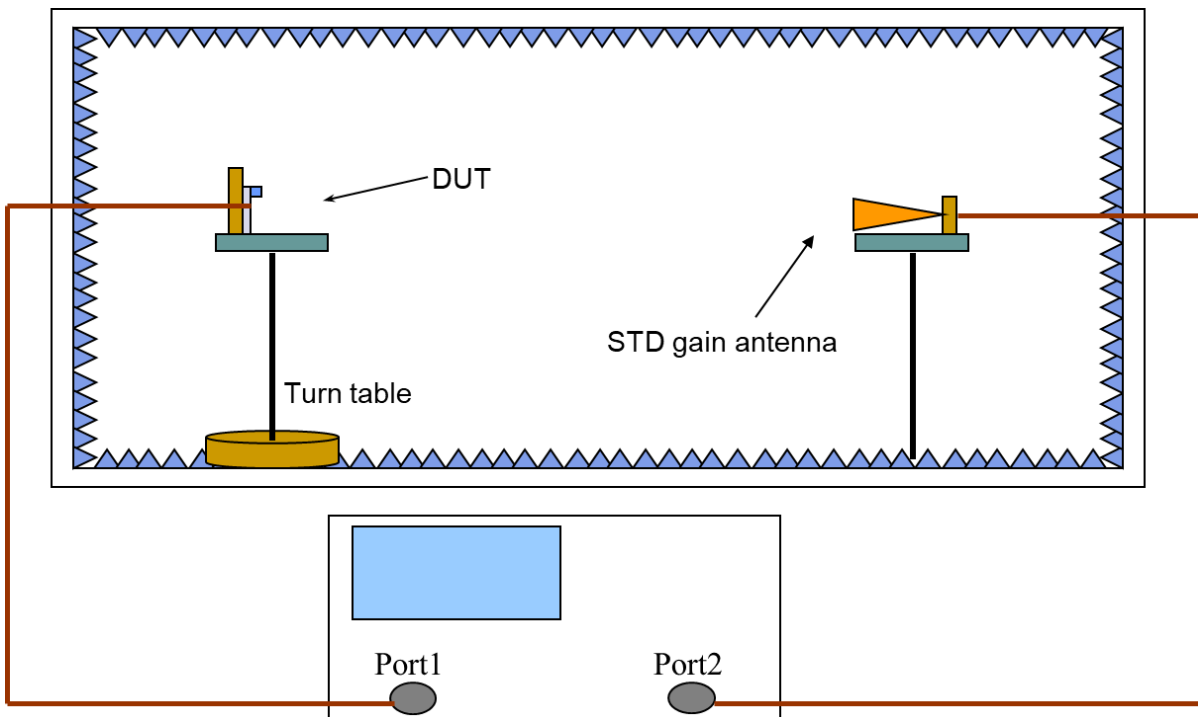
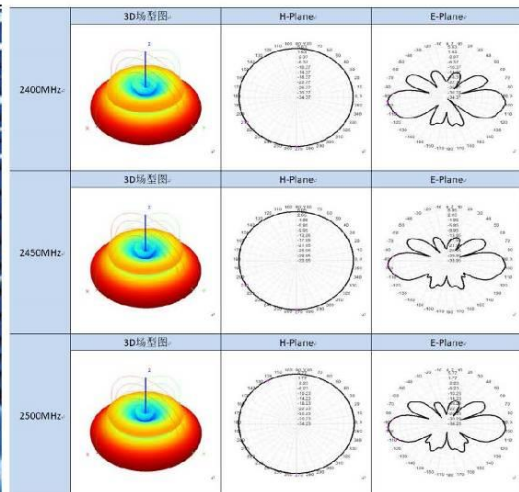
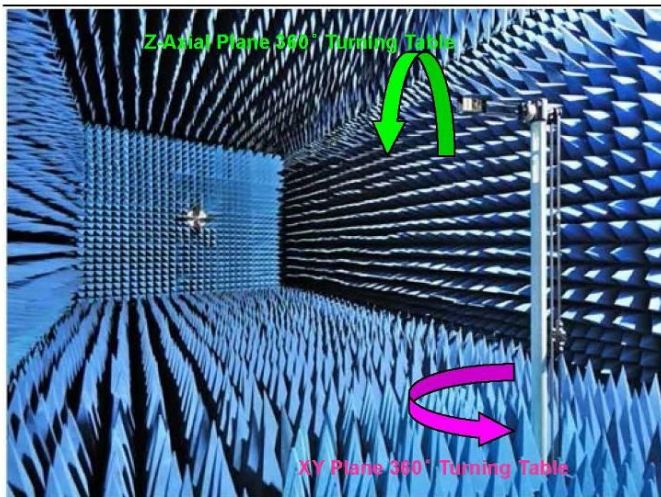
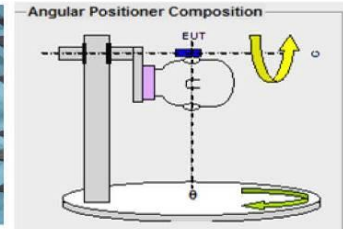
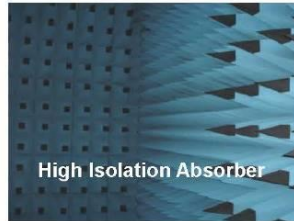
| Sample Photo | |
|--|-------------------|
|  | |
| A. Electrical Characteristics | |
| Frequency | 5150-5850MHz |
| Impedance | 50 Ohm |
| S.W.R. | <1.6 |
| Gain | 10dBi |
| Efficiency | ≈69% |
| Polarization | Linear |
| Horizontal Beamwidth | 360° |
| Vertical Beamwidth | 8°±1° |
| Max Power | 50W |
| B. Material & Mechanical Characteristics | |
| Connector Type | N connector |
| Dimension | Φ 20*600mm |
| Weight | 0.175Kg |
| Radome Materials | Fiberglass |
| C. Environmental | |
| Operation Temperature | - 40 °C ~ + 80 °C |
| Storage Temperature | - 40 °C ~ + 80 °C |

Test Equipment & Conditions

1. Network Analyzer: Keysight E5071C

2. 3D Chamber Test System

- .Chamber Size: 9 x 5 x 4 m³
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software

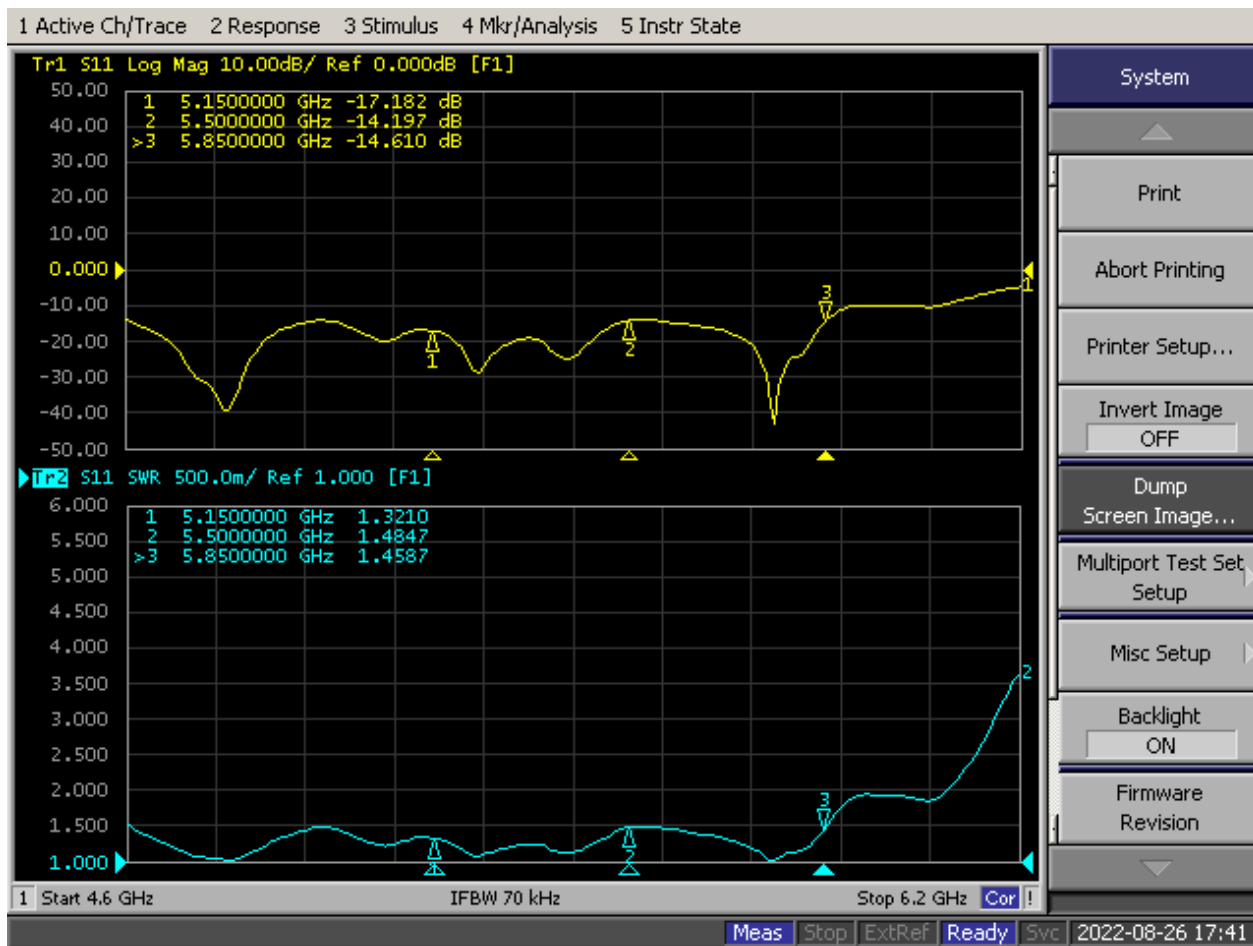




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2. Antenna - S Parameter Test Data

2.1. VSWR

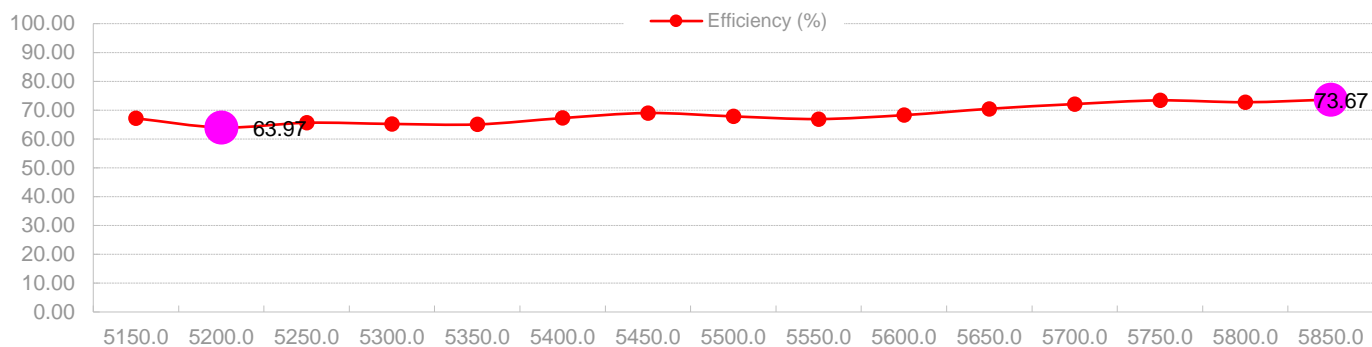




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2.2 Total Efficiency & Gain:

| Frequency(MHz) | 5150 | 5200 | 5250 | 5300 | 5350 | 5400 | 5450 | 5500 | 5550 | 5600 | 5650 | 5700 | 5750 | 5800 | 5850 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Gain (dBi) | 8.75 | 8.82 | 9.08 | 9.16 | 9.32 | 9.86 | 10.12 | 9.98 | 9.81 | 9.87 | 10.38 | 10.37 | 10.09 | 9.34 | 8.51 |
| Efficiency (%) | 67.16 | 63.97 | 65.61 | 65.21 | 65.05 | 67.25 | 68.99 | 67.83 | 66.91 | 68.26 | 70.46 | 72.10 | 73.38 | 72.74 | 73.67 |





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 2.3 Radiation Pattern

| | 3D | 2D-Horizontal | 2D-Vertical |
|----------|----|---------------|-------------|
| 5150M Hz | | | |
| 5500M Hz | | | |
| 5850M Hz | | | |



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3. Mechanical Drawing

