




Product Number: BGS-AN2400-16100G  
Product Name: 2.4GHz Omnidirectional Fiberglass Antenna

## 1. Specification

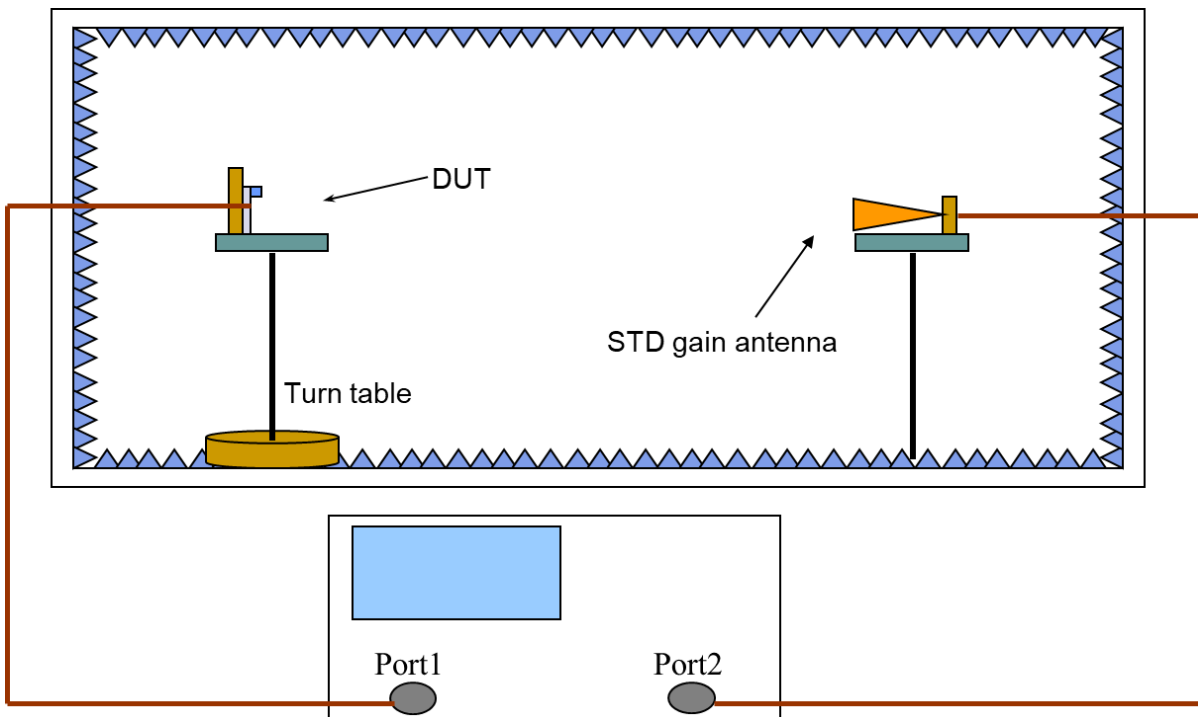
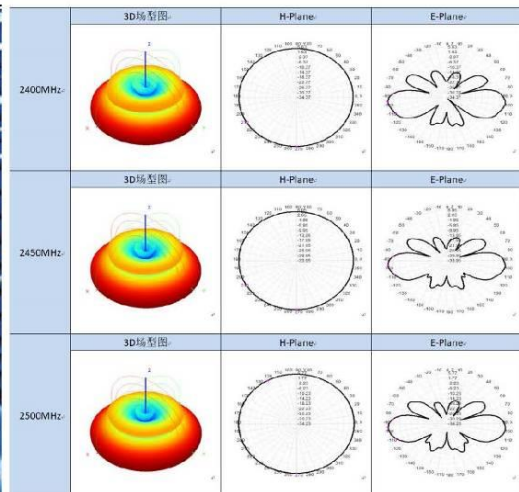
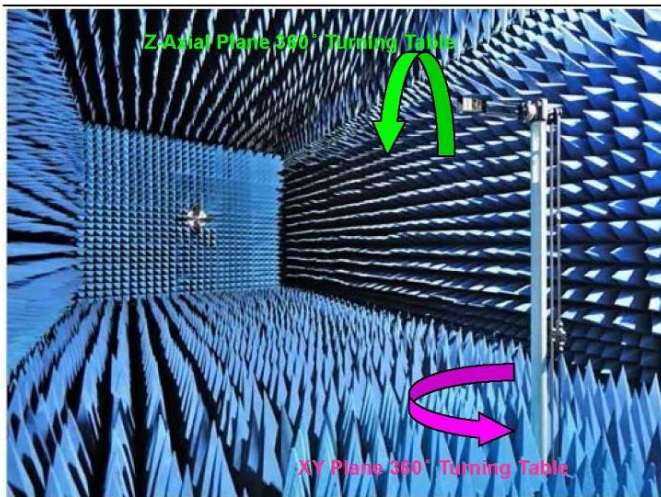
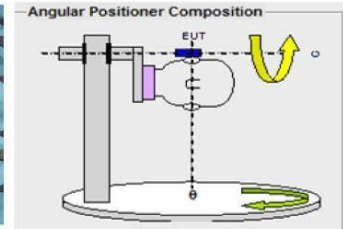
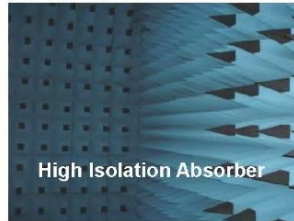
Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz
Impedance	50 Ohm
S.W.R.	<2.0
Antenna Gain	2.5dBi
Efficiency	≈84%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	70°±5°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 16*100mm
Weight	0.065Kg
Radome material	Fiberglass
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C
Rated Wind Velocity	36.9m/s
Lighting Protection	DC Ground

## Test Equipment & Conditions

1. Network Analyzer: Keysight E5071C

2. 3D Chamber Test System

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

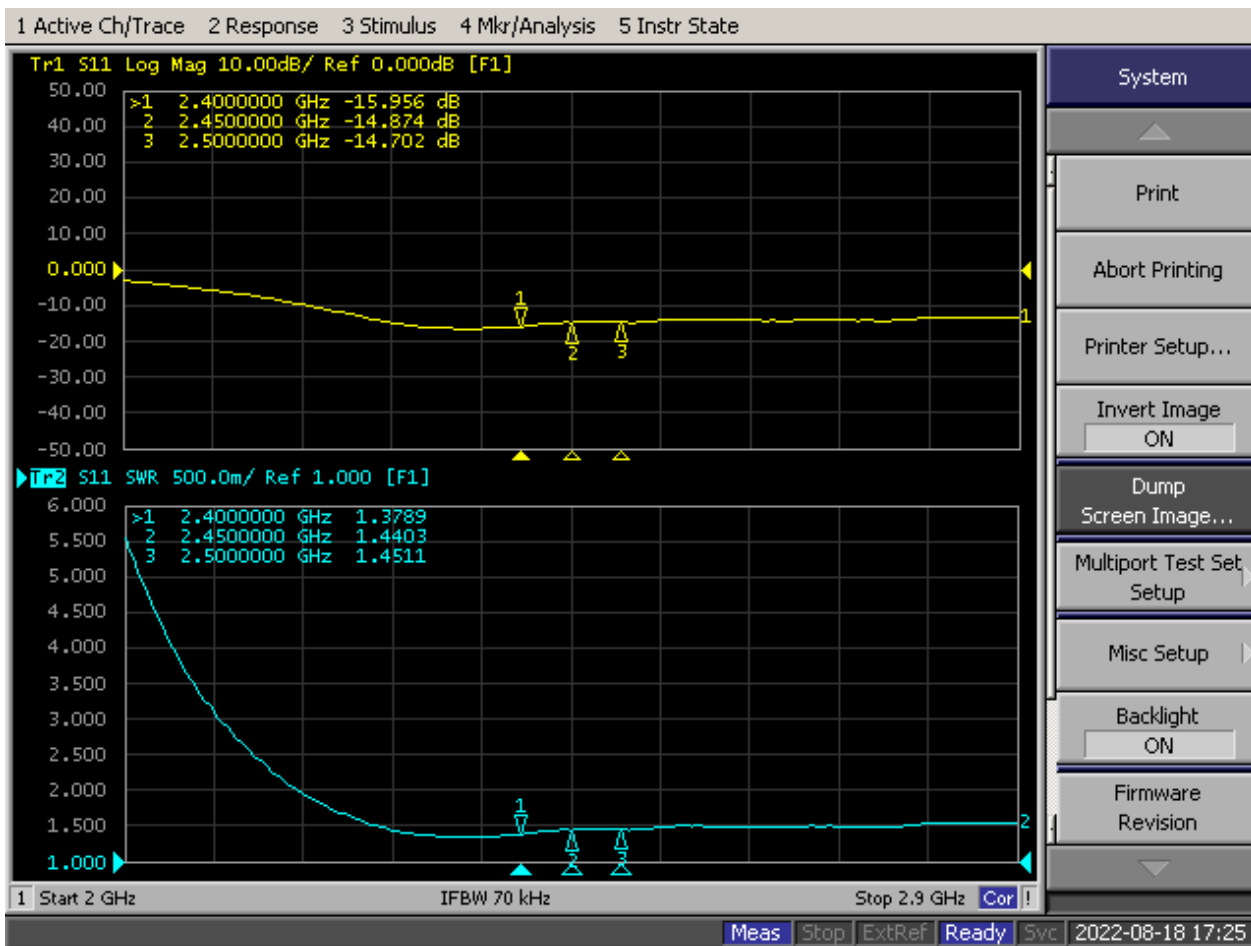




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## 2. Antenna - S Parameter Test Data

### 2.1. VSWR

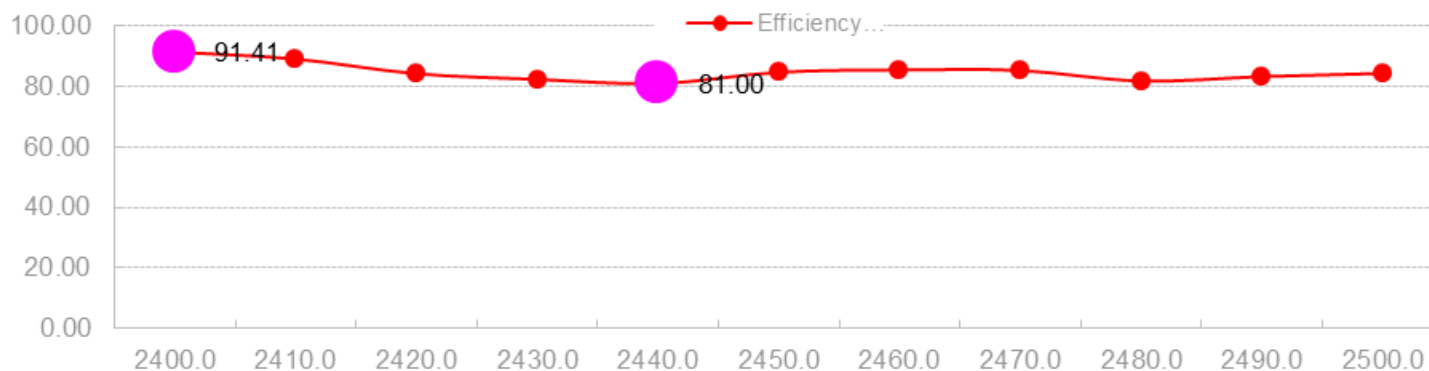




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## 2.2. Total Efficiency & Gain:

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.45	2.33	2.18	2.17	2.11	2.35	2.39	2.37	2.25	2.37	2.30
Efficiency (%)	91.41	89.10	84.26	82.37	81.00	84.73	85.50	85.31	81.83	83.29	84.37





### 2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
2400M Hz			
2450M Hz			
2500M Hz			



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### 3. Mechanical Drawing

