


## 1. Specification

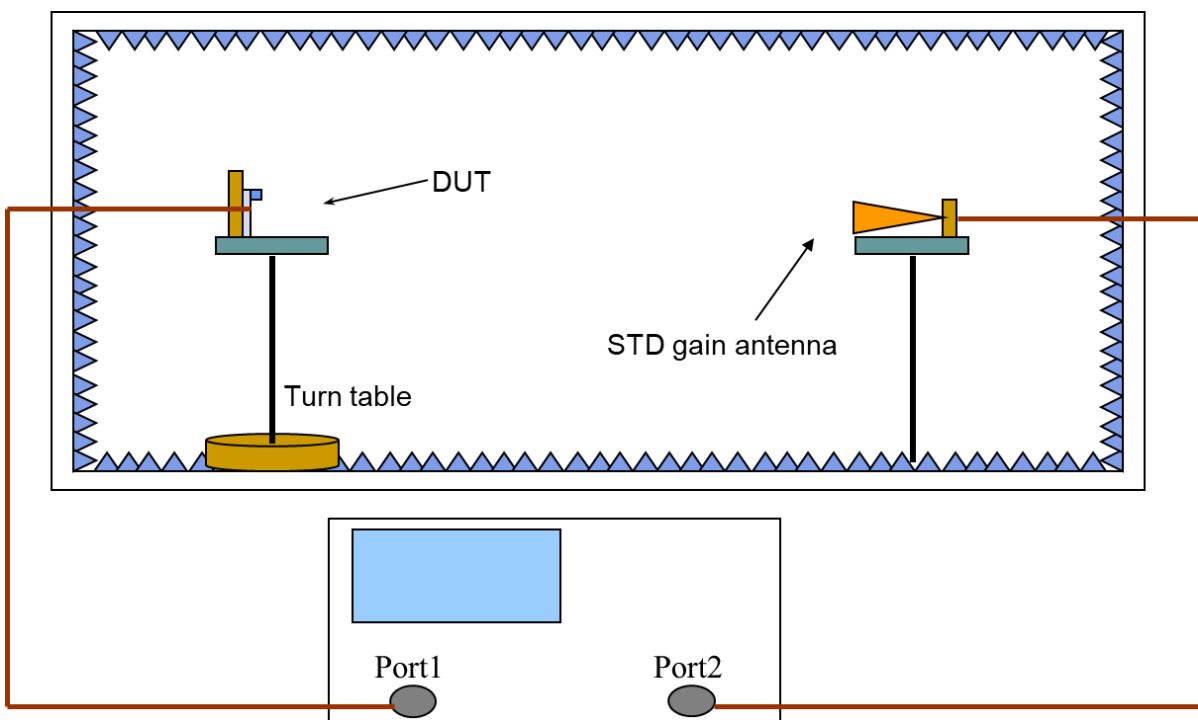
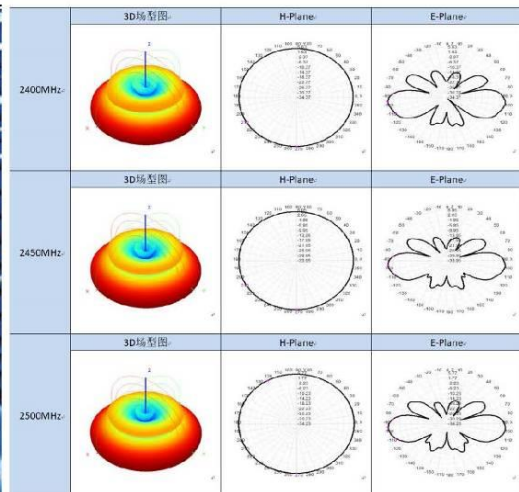
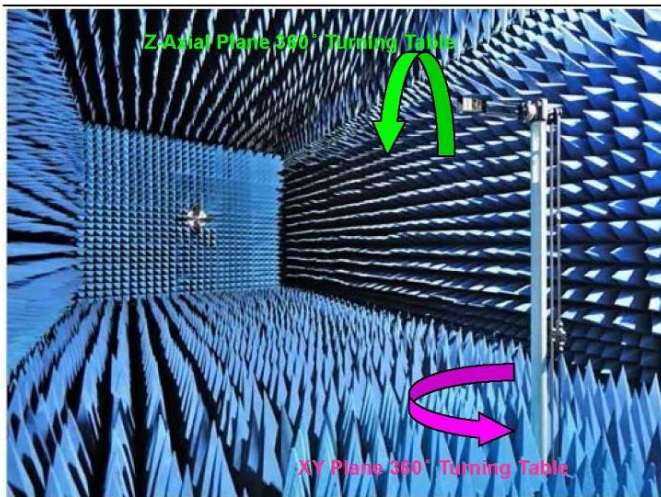
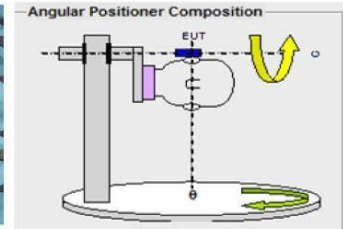
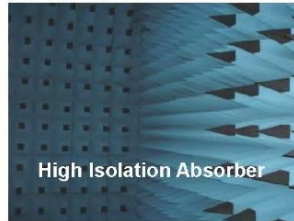
Sample Photo	
	
A. Electrical Characteristics	
Frequency	824-894MHz
Impedance	50 Ohm
S.W.R.	<2
Gain	2dBi
Efficiency	≈76%
Horizontal Beamwidth	360°
Vertical Beamwidth	83-93°
Polarization	Linear
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 20*250mm
Weight	0.28Kg
Radome material	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 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

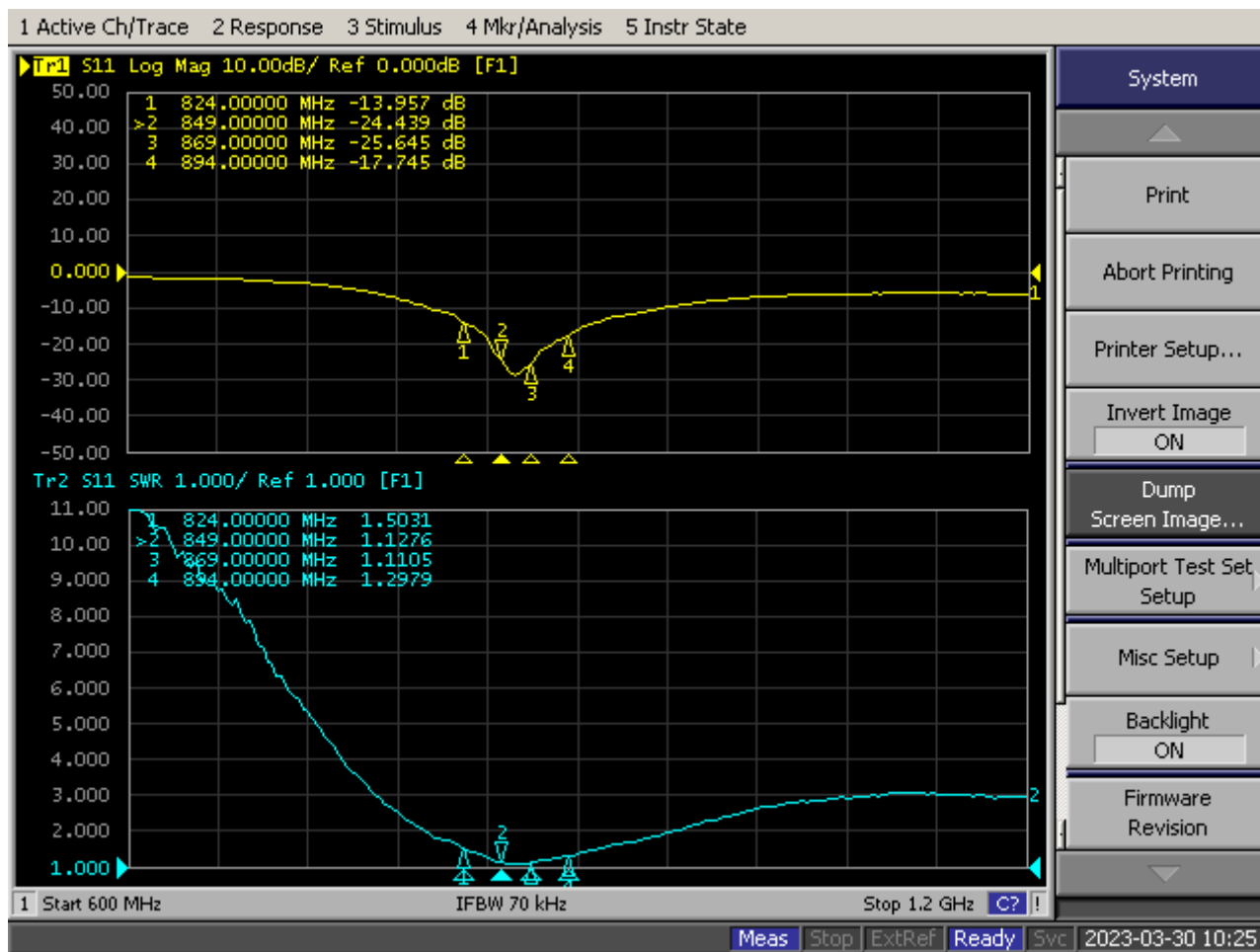




Product Number: BGS-AN0868-20250W  
Product Name: 824-894MHz Fiberglass Antenna

## 2. Antenna - S Parameter Test Data

### 2.1. VSWR



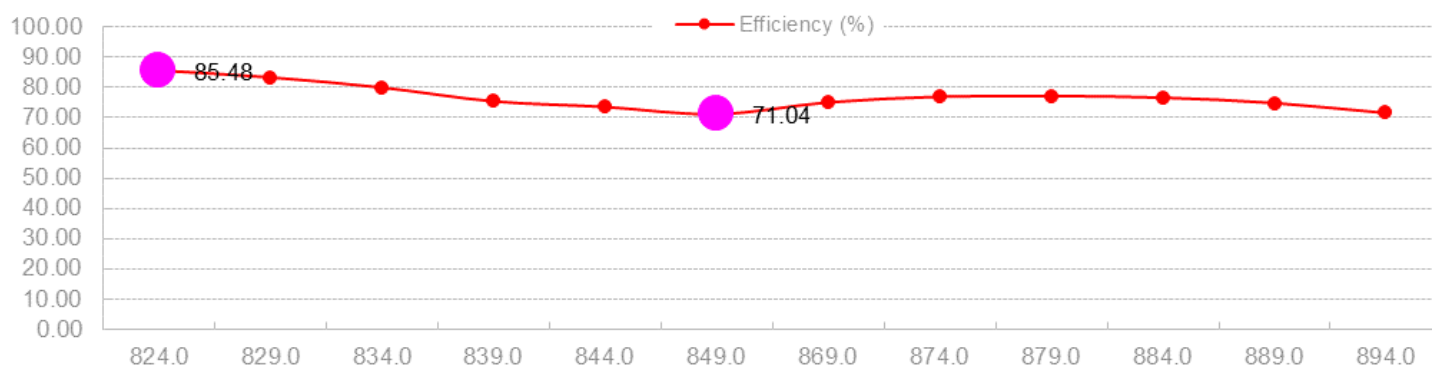


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## 2.2 Total Efficiency & Gain:

Frequency(MHz)	824.0	829.0	834.0	839.0	844.0	849.0
Gain (dBi)	1.88	1.73	1.55	1.33	1.24	1.14
Efficiency (%)	85.48	83.22	79.87	75.30	73.43	71.04

Frequency(MHz)	869.0	874.0	879.0	884.0	889.0	894.0
Gain (dBi)	1.68	1.85	1.91	1.92	1.85	1.72
Efficiency (%)	74.95	76.83	77.04	76.49	74.71	71.43





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### 2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
824MHz			
834MHz			
849MHz			



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	3D	2D-Horizontal	2D-Vertical
869MHz			
879MHz			
894MHz			





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### 3. Mechanical Drawing

