


Product Number: BGS-AN1550-20600G

Product Name: 1550-1628MHZ Omnidirectional Fiberglass Antenna



1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	1550-1628MHz
Impedance	50 Ohm
S.W.R.	<2.0
Antenna Gain	5.3-5.7dBi
Efficiency	≈80%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	23~26°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 20*600mm
Weight	0.24Kg
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

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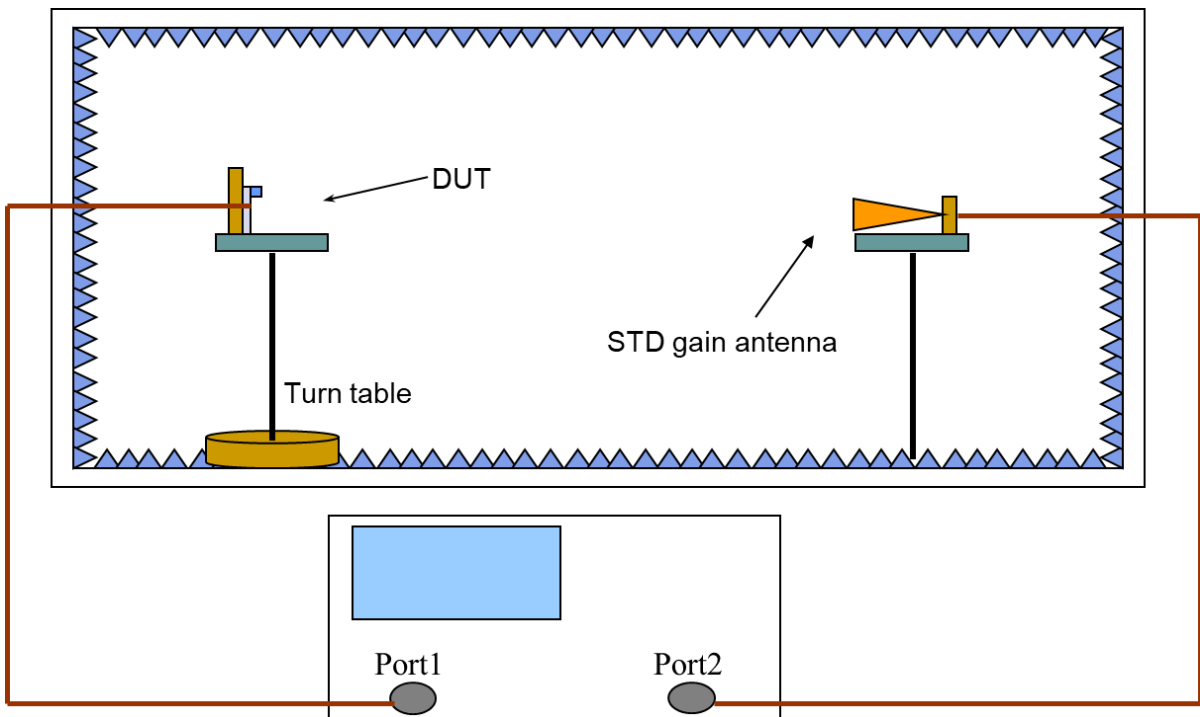
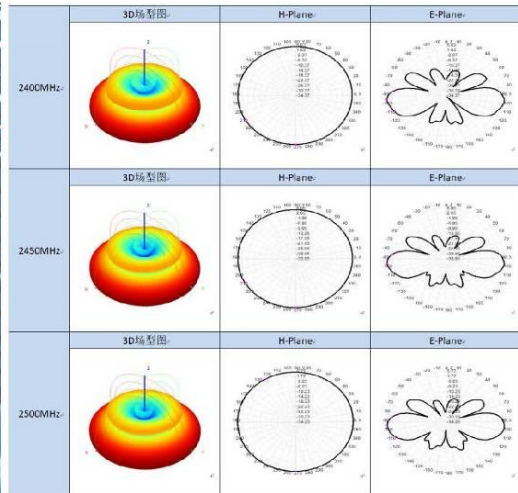
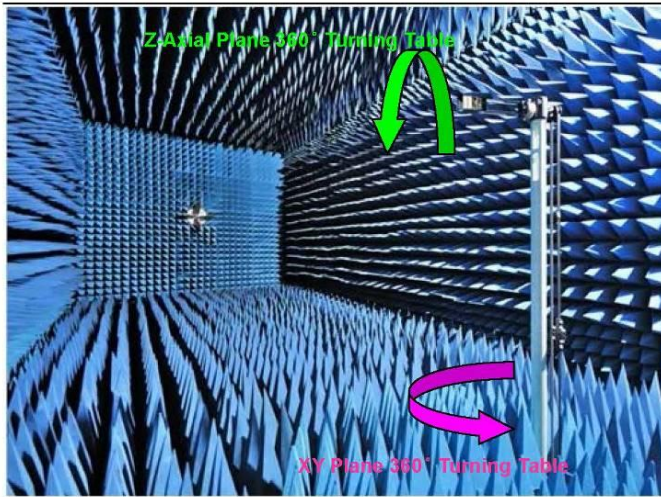
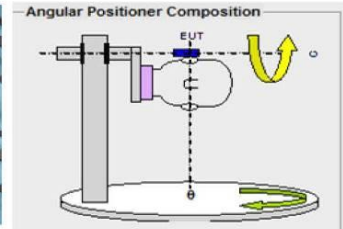
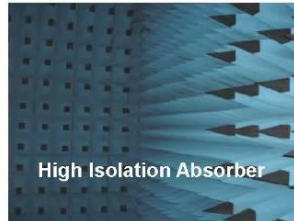


Test Equipment & Conditions

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

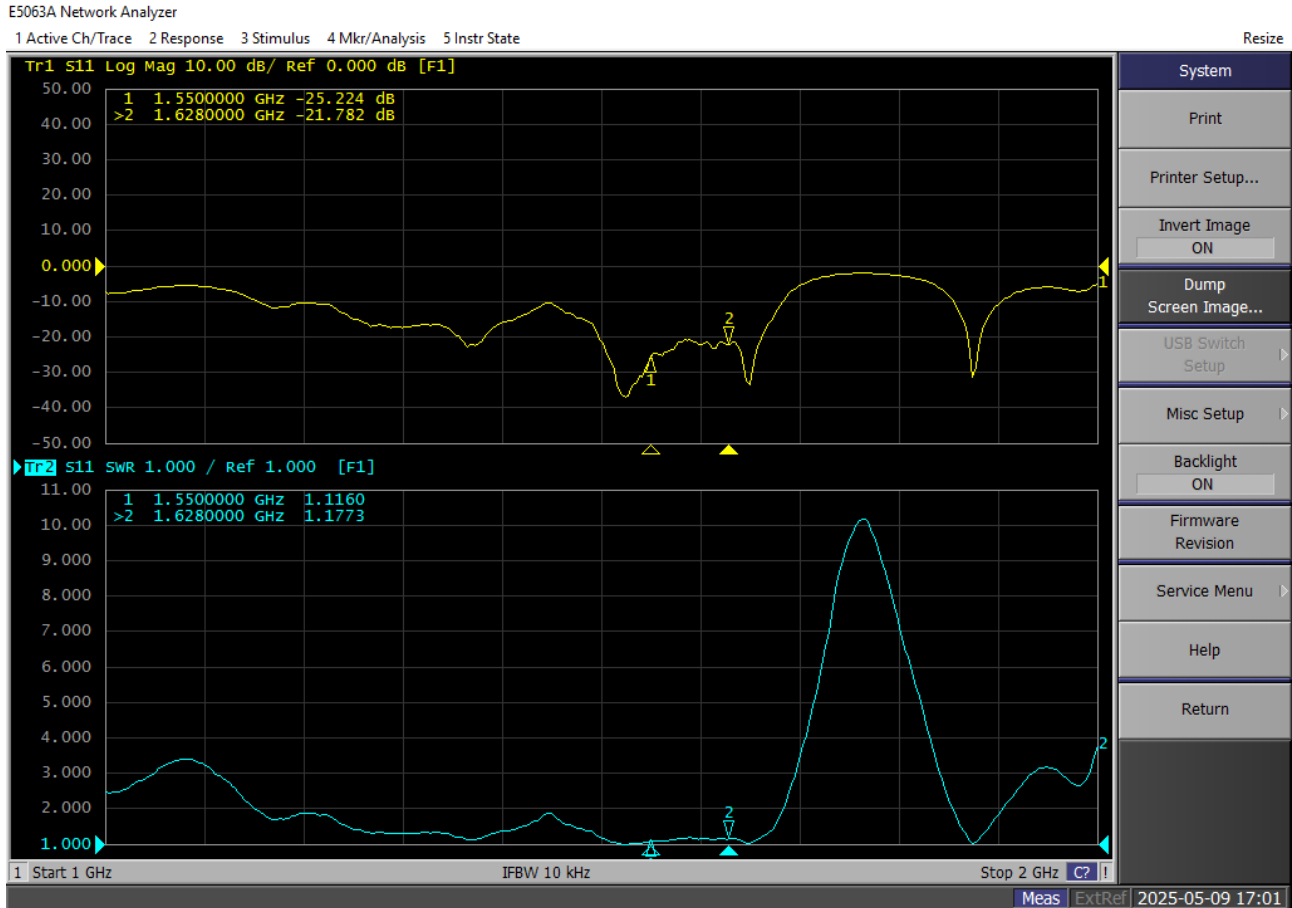


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2. Antenna - S Parameter Test Data

2.1. VSWR



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2.2. Total Efficiency & Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)
1550	5.5	84.0
1560	5.5	82.5
1570	5.7	86.2
1580	5.6	83.6
1590	5.7	82.6
1600	5.7	81.9
1610	5.4	74.9
1620	5.5	73.4
1628	5.3	70.0

2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
1550M Hz			
1590M Hz			
1628M Hz			

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3. Mechanical Drawing

