



1. Specification

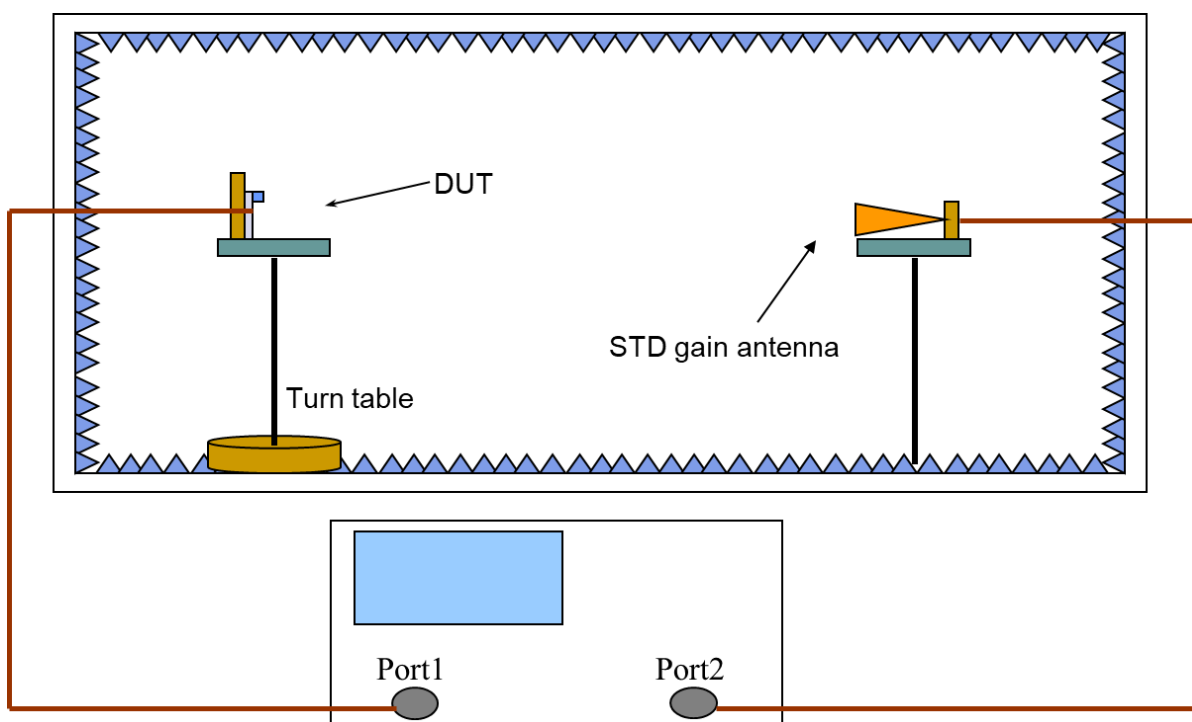
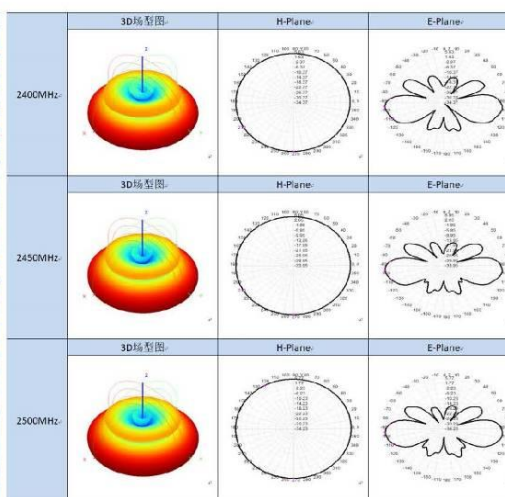
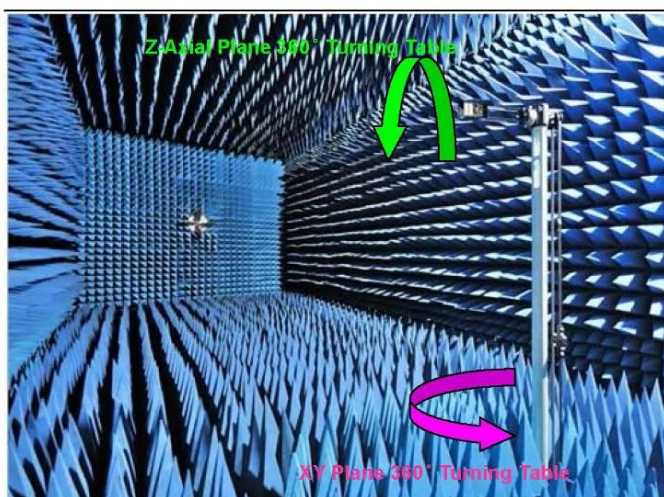
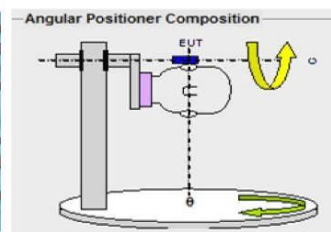
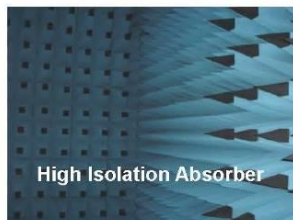
Sample Photo		
A. Electrical Characteristics		
Port	Port1	Port2
Frequency	5150-5850MHz	5150-5850MHz
S.W.R.	<2.0	<2.0
Efficiency	≈50%	≈53%
Antenna Gain	10dBi	11dBi
Polarization	Linear	Linear
Horizontal Beamwidth	130-360°	50-210°
Vertical Beamwidth	6-8°	6-7°
Impedance	50 Ohm	50 Ohm
Max Power	50W	50W
B. Material & Mechanical Characteristics		
Connector Type	N connector	
Cable Type	RG303 Cable	
Dimension	Φ 60*600mm	
Weight	0.6Kg	
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 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



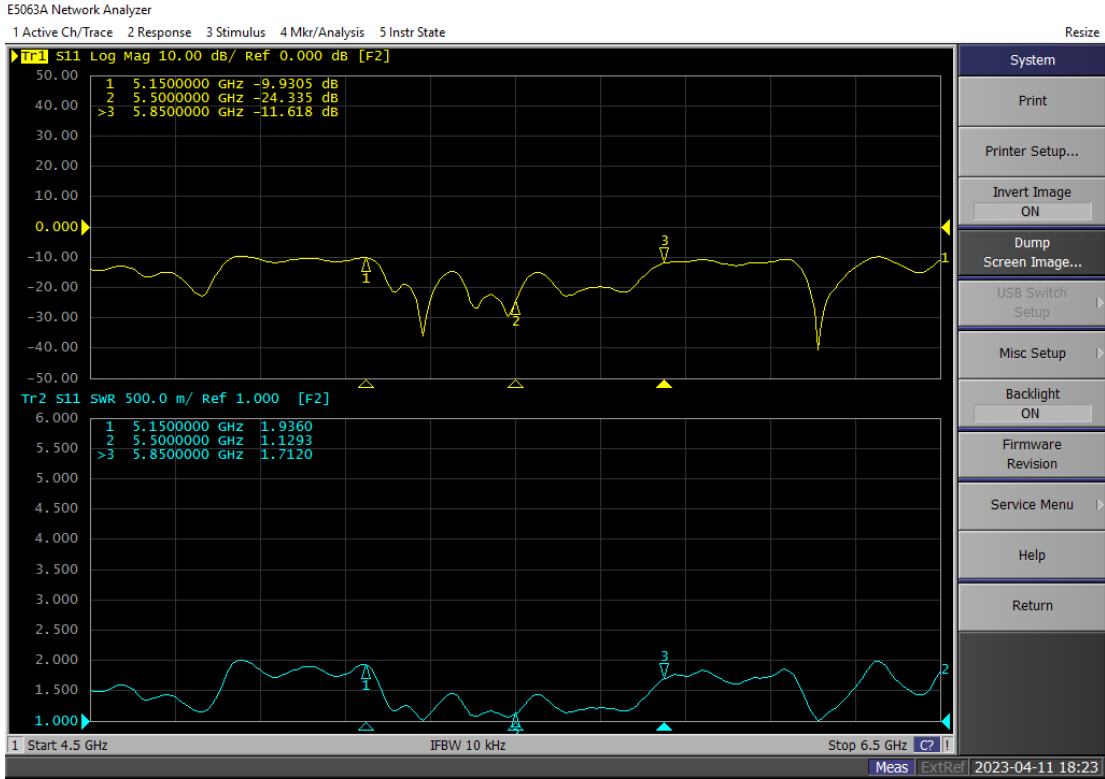


Product Number: BGS-AN5800-60600W
Product Name: 5.8GHz Fiberglass Antenna

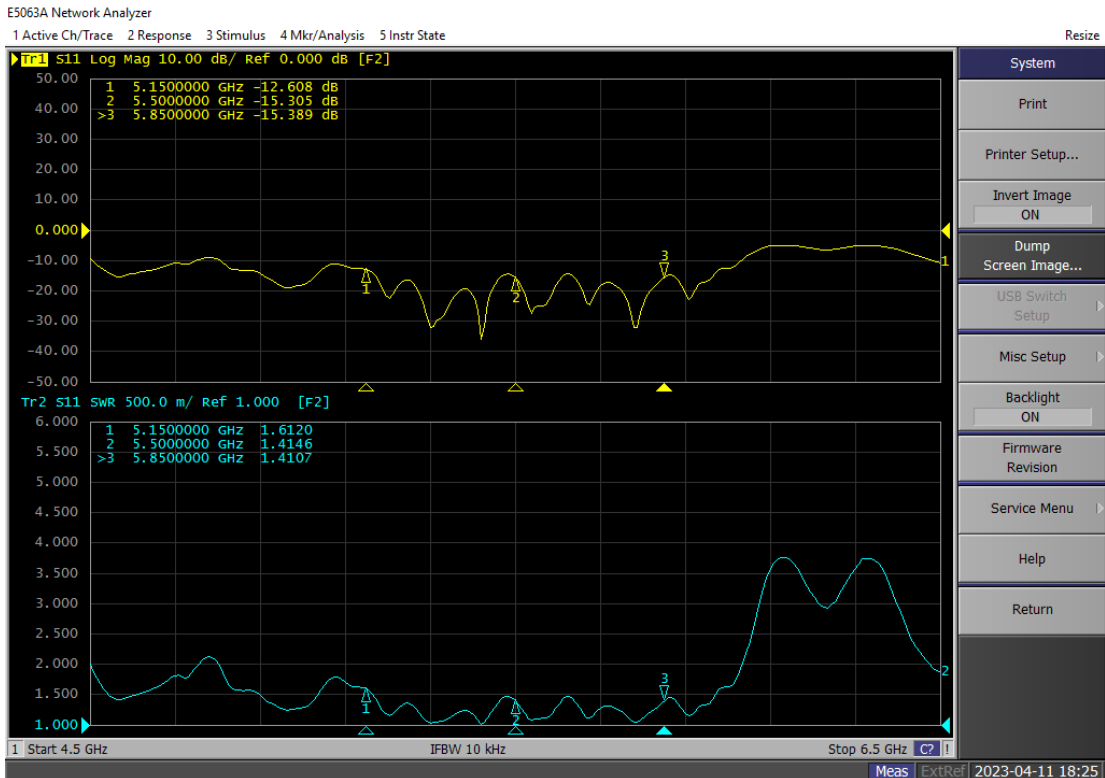
2. Antenna - S Parameter Test Data

2.1. VSWR

Port1



Port2





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2.2. Total Efficiency & Gain:

Port 1		Port 2	
Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)
5150.0	7.09	5150.0	10.38
5200.0	7.74	5200.0	9.94
5250.0	8.23	5250.0	9.94
5300.0	7.63	5300.0	8.69
5350.0	8.30	5350.0	9.58
5400.0	9.72	5400.0	10.35
5450.0	9.31	5450.0	10.75
5500.0	8.89	5500.0	9.63
5550.0	9.33	5550.0	9.31
5600.0	9.53	5600.0	10.92
5650.0	8.82	5650.0	11.51
5700.0	8.29	5700.0	10.55
5750.0	7.92	5750.0	9.30
5800.0	7.96	5800.0	10.92
5850.0	8.16	5850.0	11.13



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2.3 Radiation Pattern

Port 1	3D	2D-Horizontal	2D-Vertical
5150M Hz			
5500M Hz			
5850M Hz			



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



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3. Mechanical Drawing

