




Product Number: BGS-AN0550-16475B
Product Name: Gooseneck Antenna 450-550MHz

1. Specification

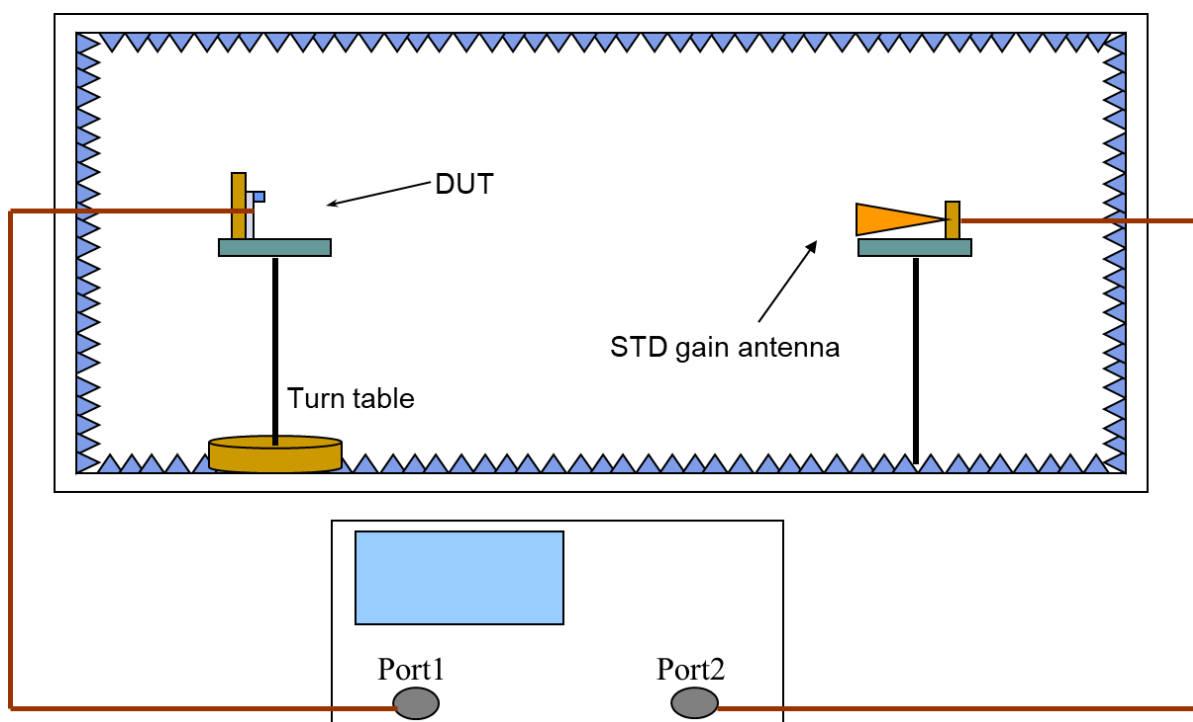
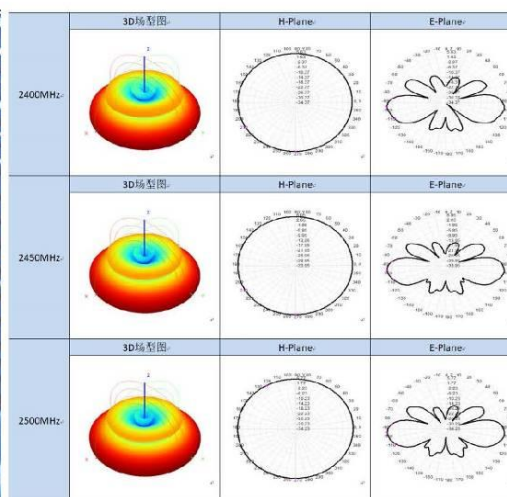
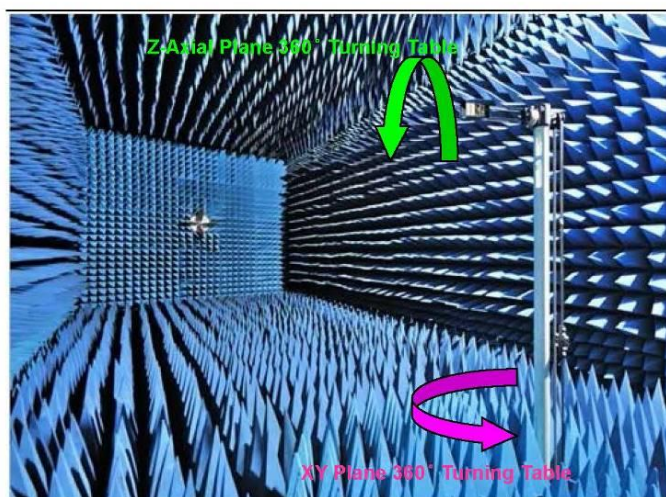
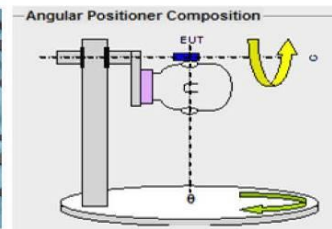
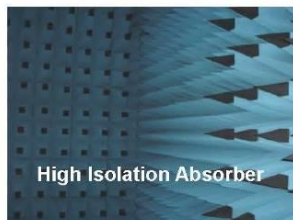
Sample Photo	
	
A. Electrical Characteristics	
Frequency	450-550MHz
Impedance	50 Ohm
S.W.R.	<2.5
Gain	2dBi
Efficiency	≈87%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	68-81°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 16*475mm
Weight	0.178Kg
Radome Materials	ABS
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

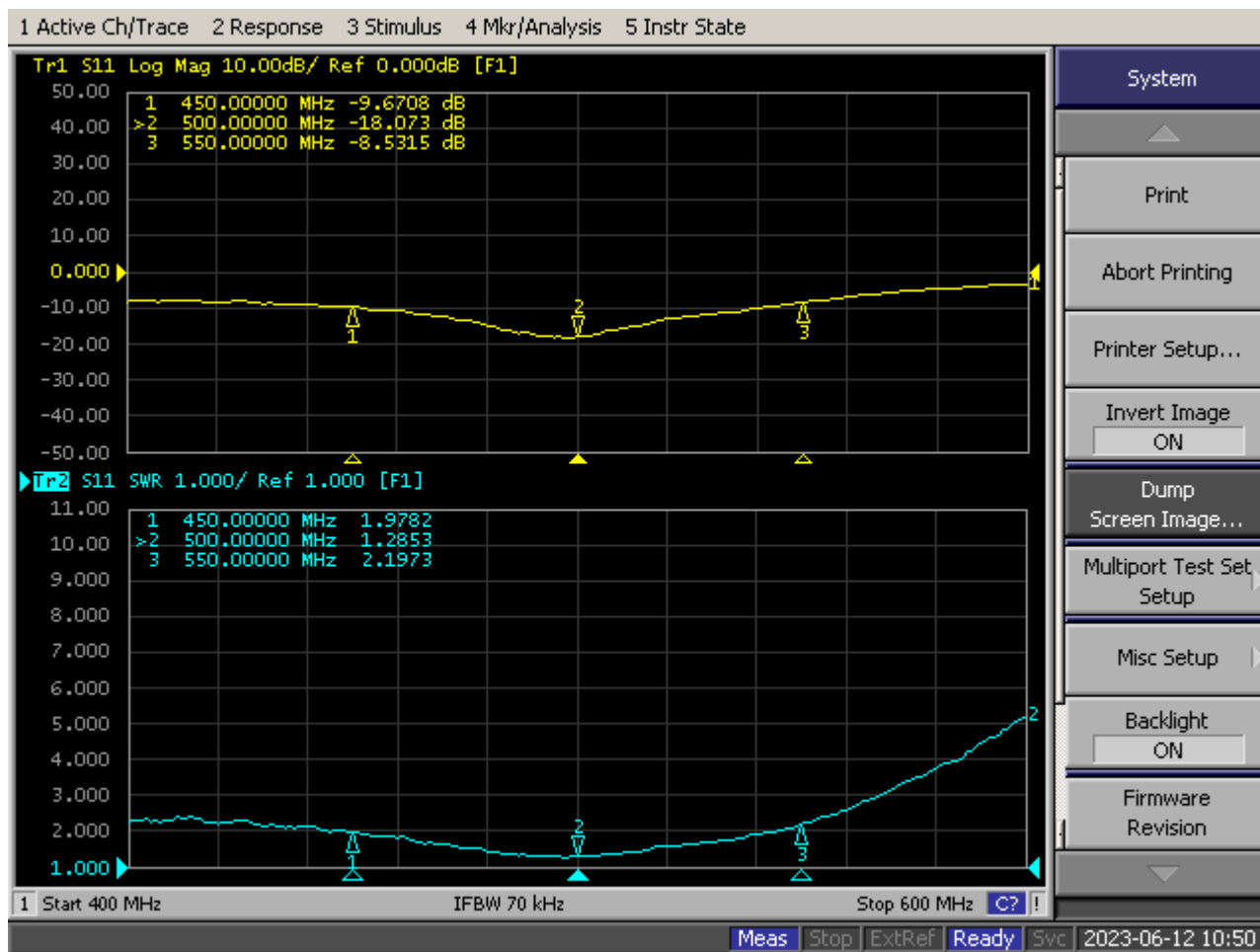




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2. Antenna - S Parameter Test Data

2.1. VSWR

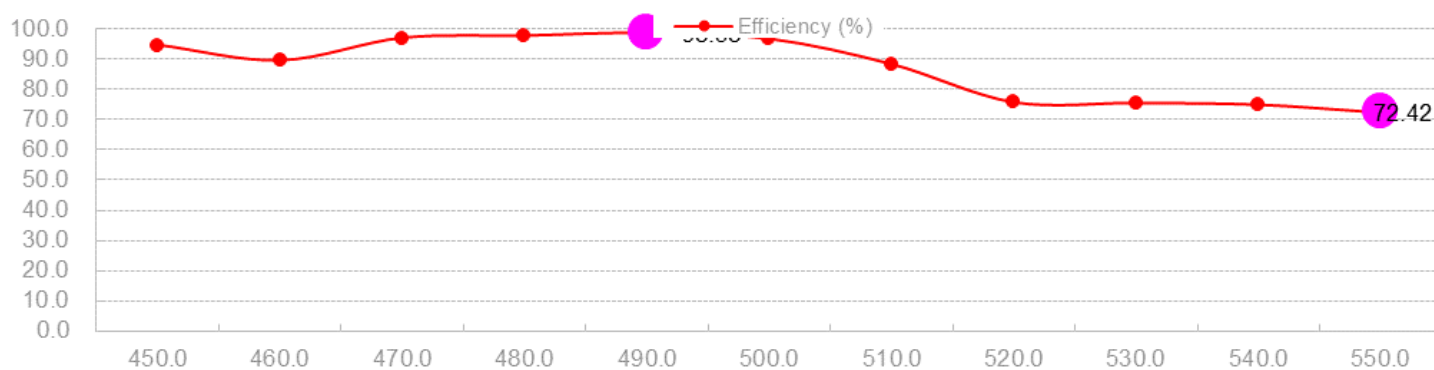




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2.2 Total Efficiency & Gain:

Frequency(MHz)	450.0	460.0	470.0	480.0	490.0	500.0	510.0	520.0	530.0	540.0	550.0
Gain (dBi)	1.9	1.7	2.1	2.1	2.1	1.9	1.4	1.0	1.1	1.1	1.1
Efficiency (%)	94.6	89.6	97.0	97.7	98.6	96.7	88.3	75.9	75.6	75.0	72.4





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2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
450MHz			
500MHz			
550MHz			



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3. Mechanical Drawing

