



Product Number: BGS-AN0500-15310B
Product Name: 20-500MHz Flexible Whip Antenna

1. Specification

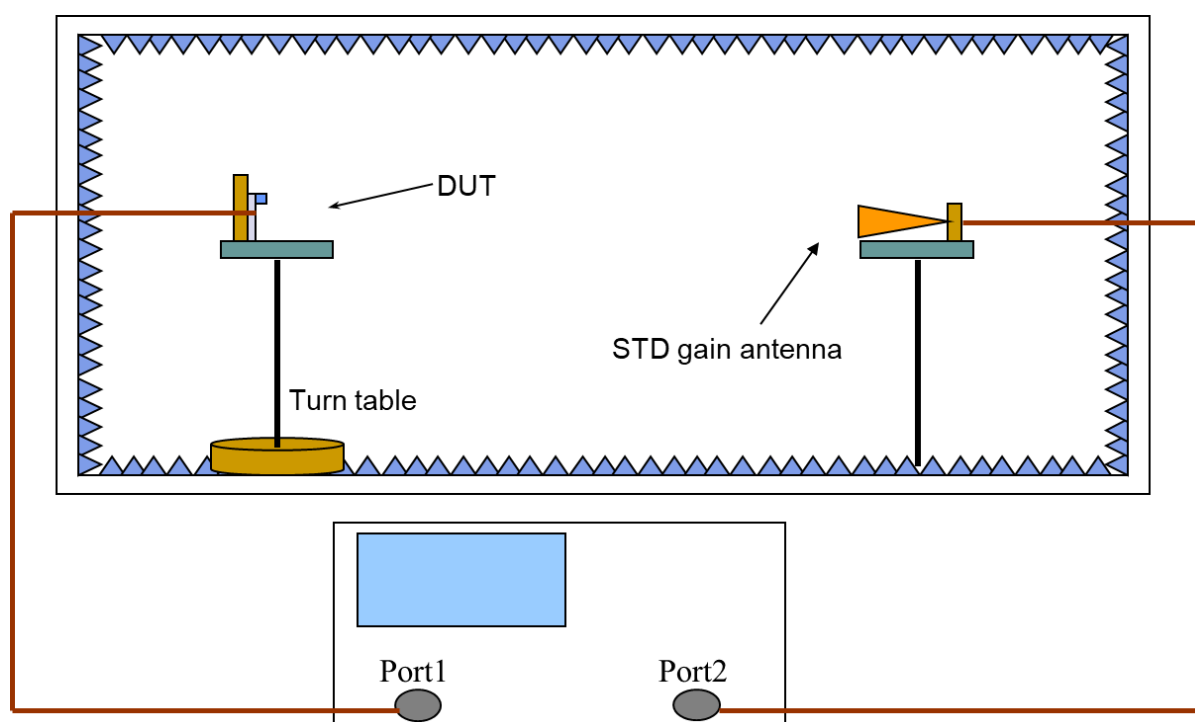
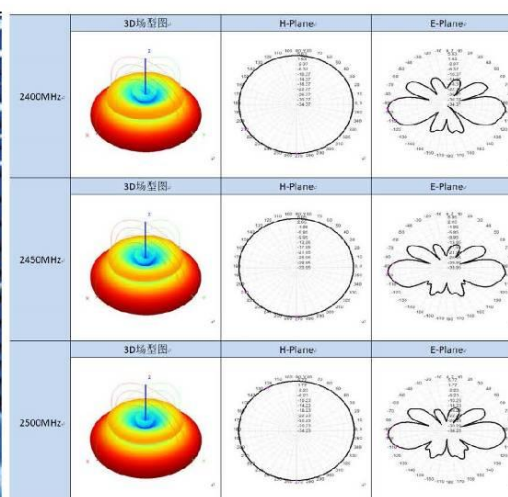
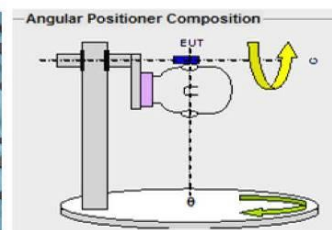
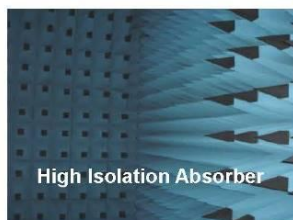
Sample Photo	
	
A. Electrical Characteristics	
Frequency	20-500MHz
S.W.R.	≤ 2.0
Antenna Gain	-3-0dBi
Efficiency	$\approx 27\%$
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	46-98°
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Connector Type	SMA Female
Dimension	15*310mm
Weight	0.045Kg
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

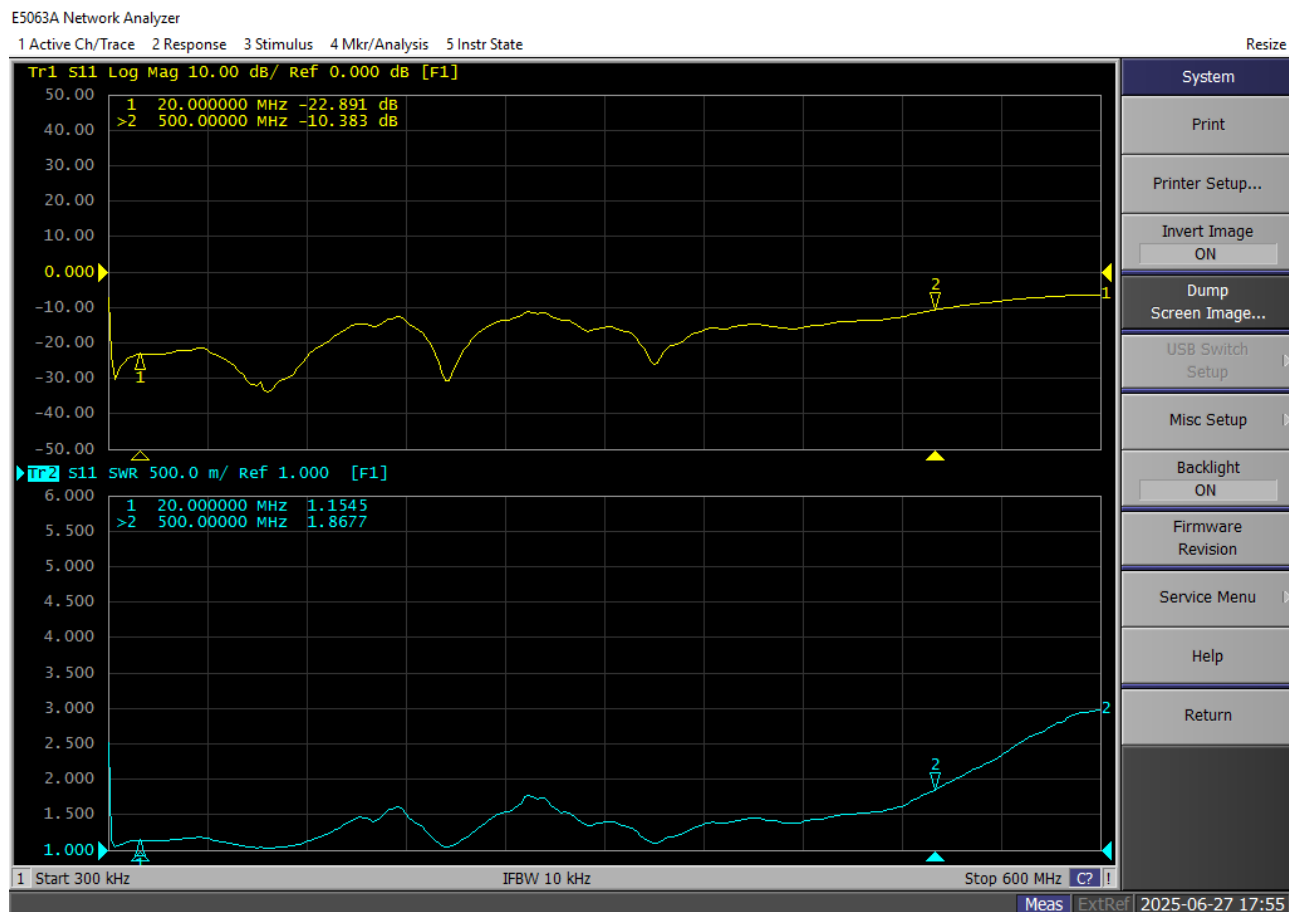




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2. Antenna - S Parameter Test Data

2.1. VSWR

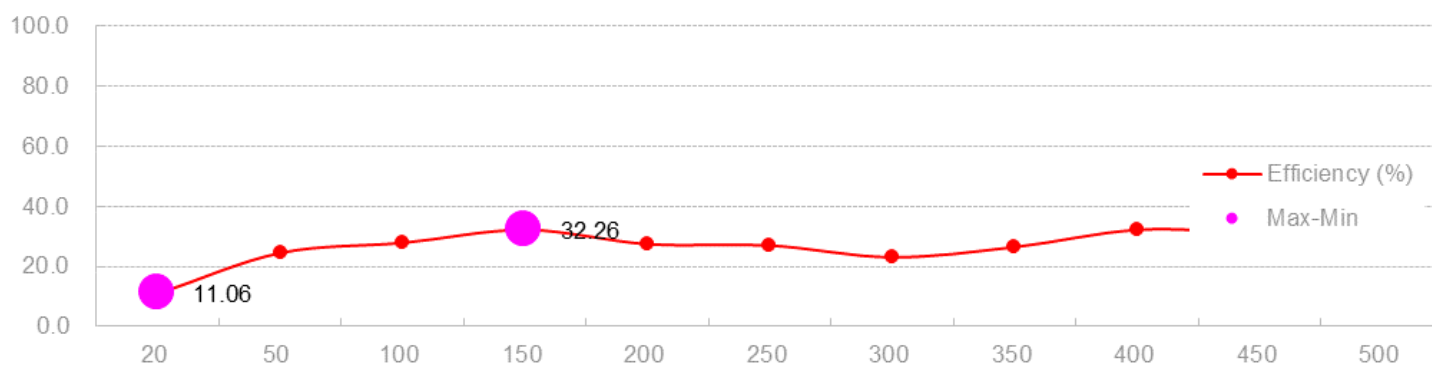




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2.2. Total Efficiency & Gain:

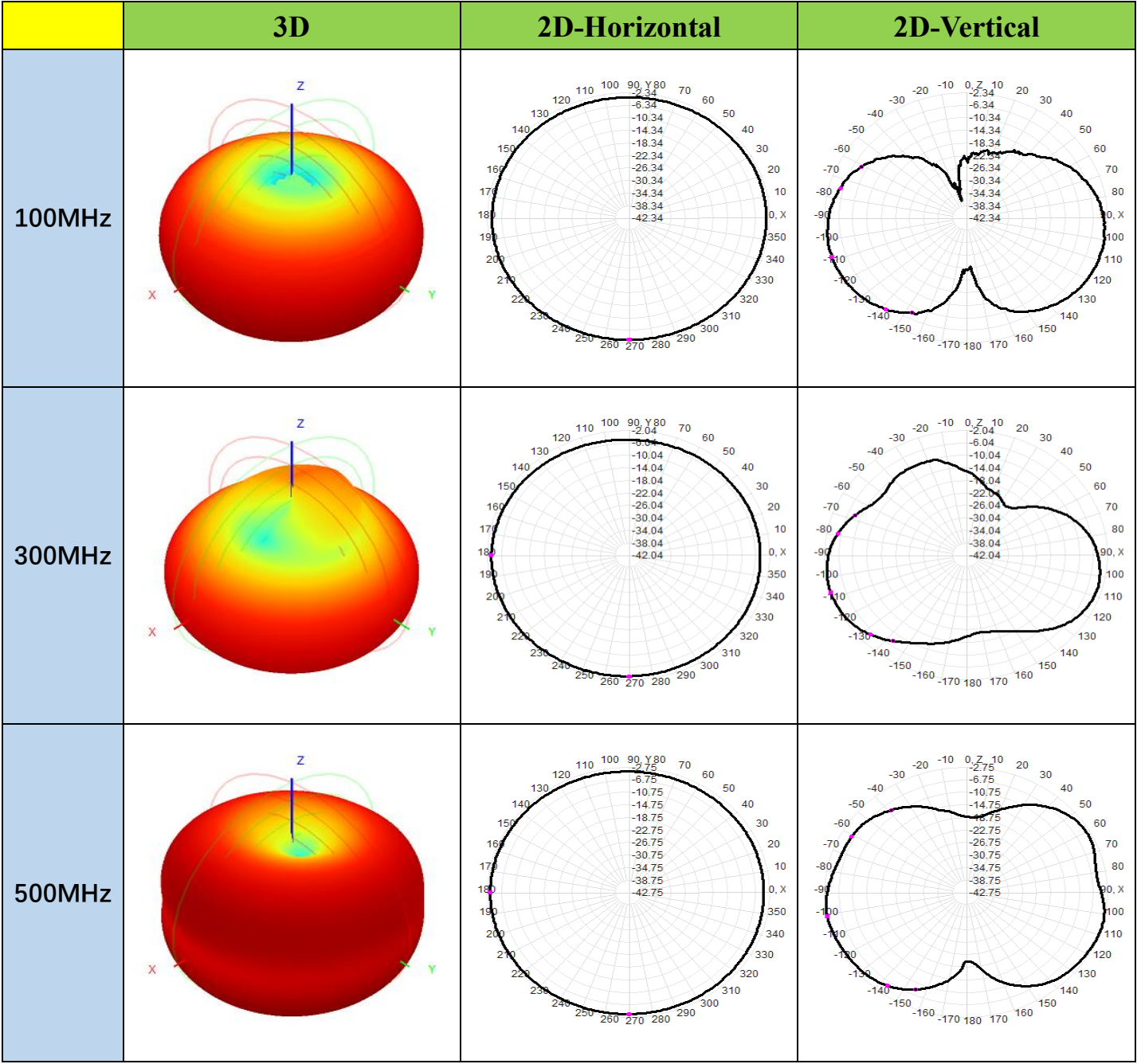
Frequency (MHz)	20	50	100	150	200	250	300	350	400	450	500
Gain (dBi)	-1.9	-1.7	-2.3	-2.2	-1.8	-2.1	-2.0	-0.1	-1.4	-3.0	-2.8
Efficiency (%)	11.1	24.6	27.9	32.3	27.5	27.0	23.1	26.5	32.2	31.4	30.6





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2.3 Radiation Pattern





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3. Mechanical Drawing

