


1. Specification

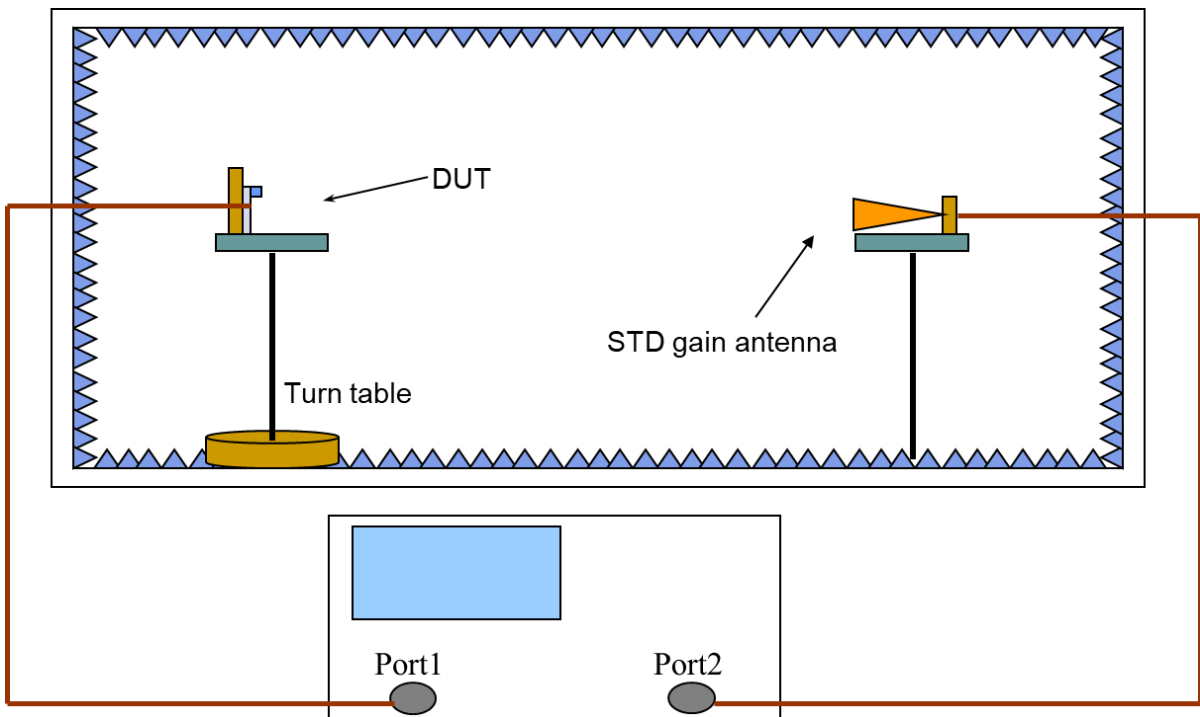
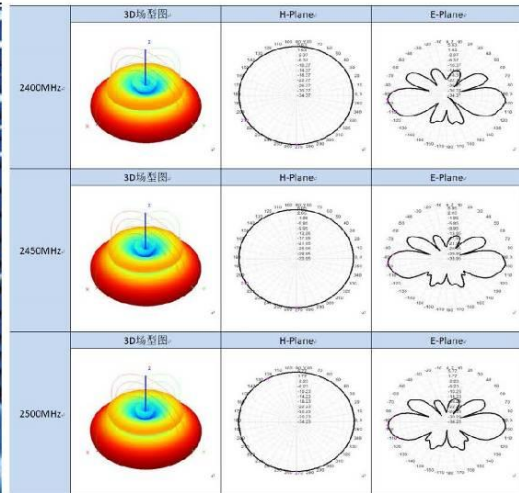
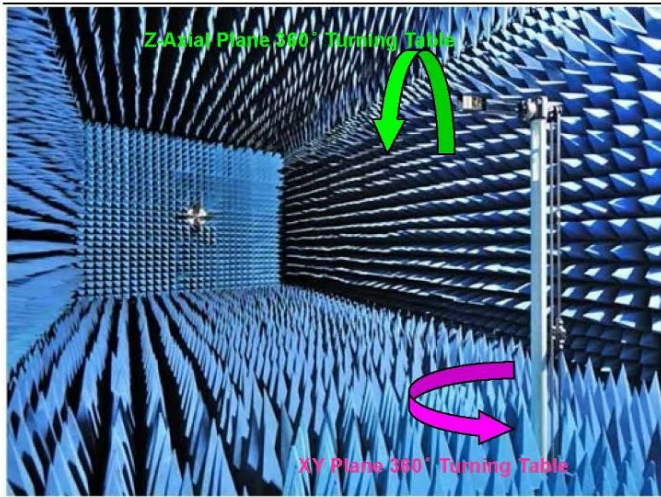
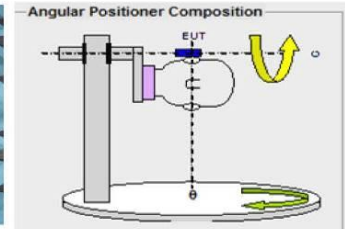
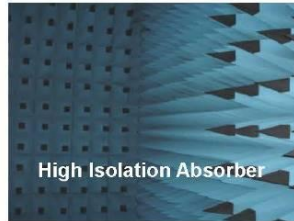
Sample Photo	
	
A. Electrical Characteristics	
Frequency	100-6000MHz
Impedance	50 Ohm
S.W.R.	<3.5
Antenna Gain	-6.5-4.5dBi
Efficiency	≈40%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	11~78°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 20*150mm
Weight	0.08Kg
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

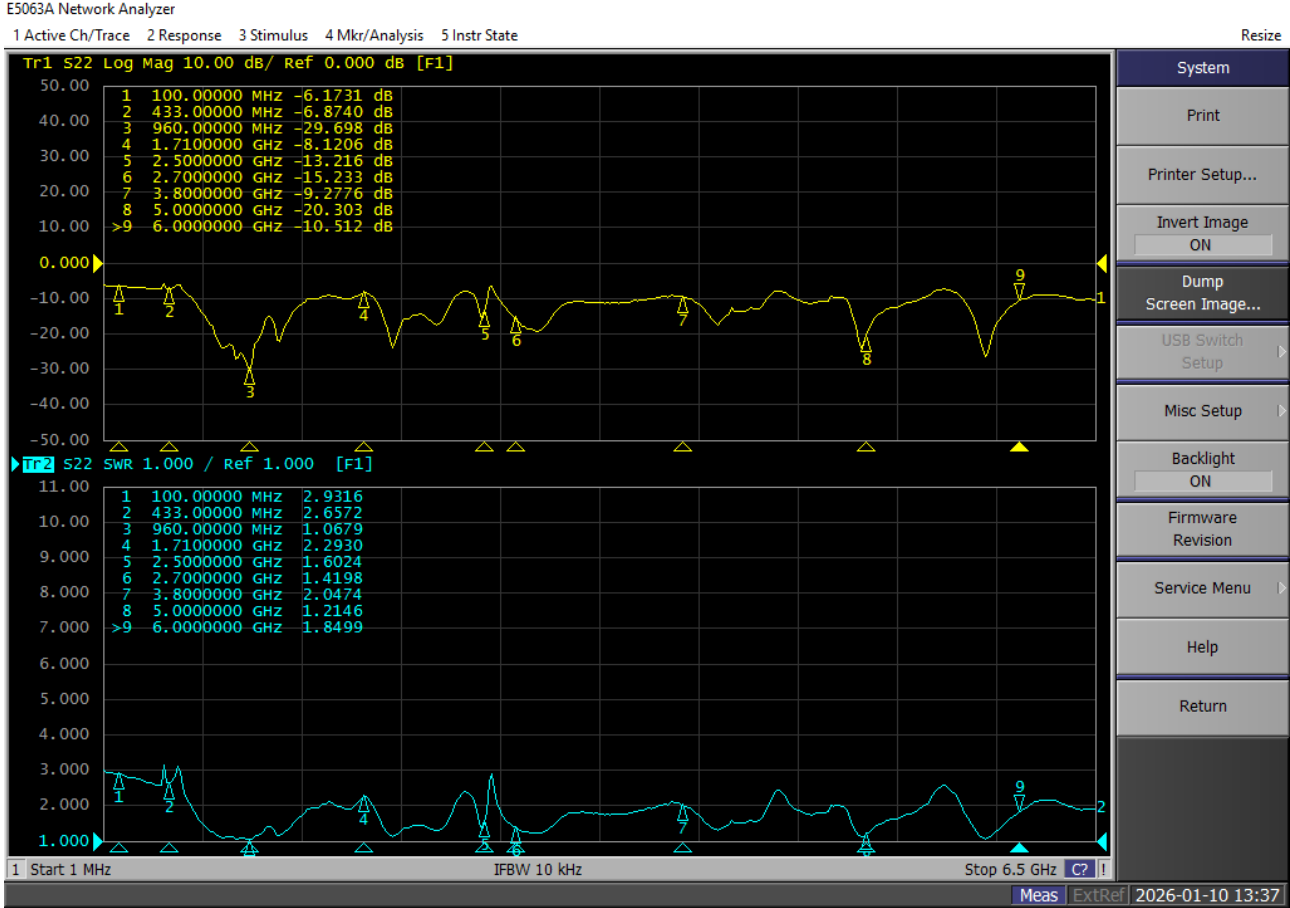


Product Number: BGS-AN6000-20150B

Product Name: 100-6000MHZ Omnidirectional Fiberglass Antenna

2. Antenna - S Parameter Test Data

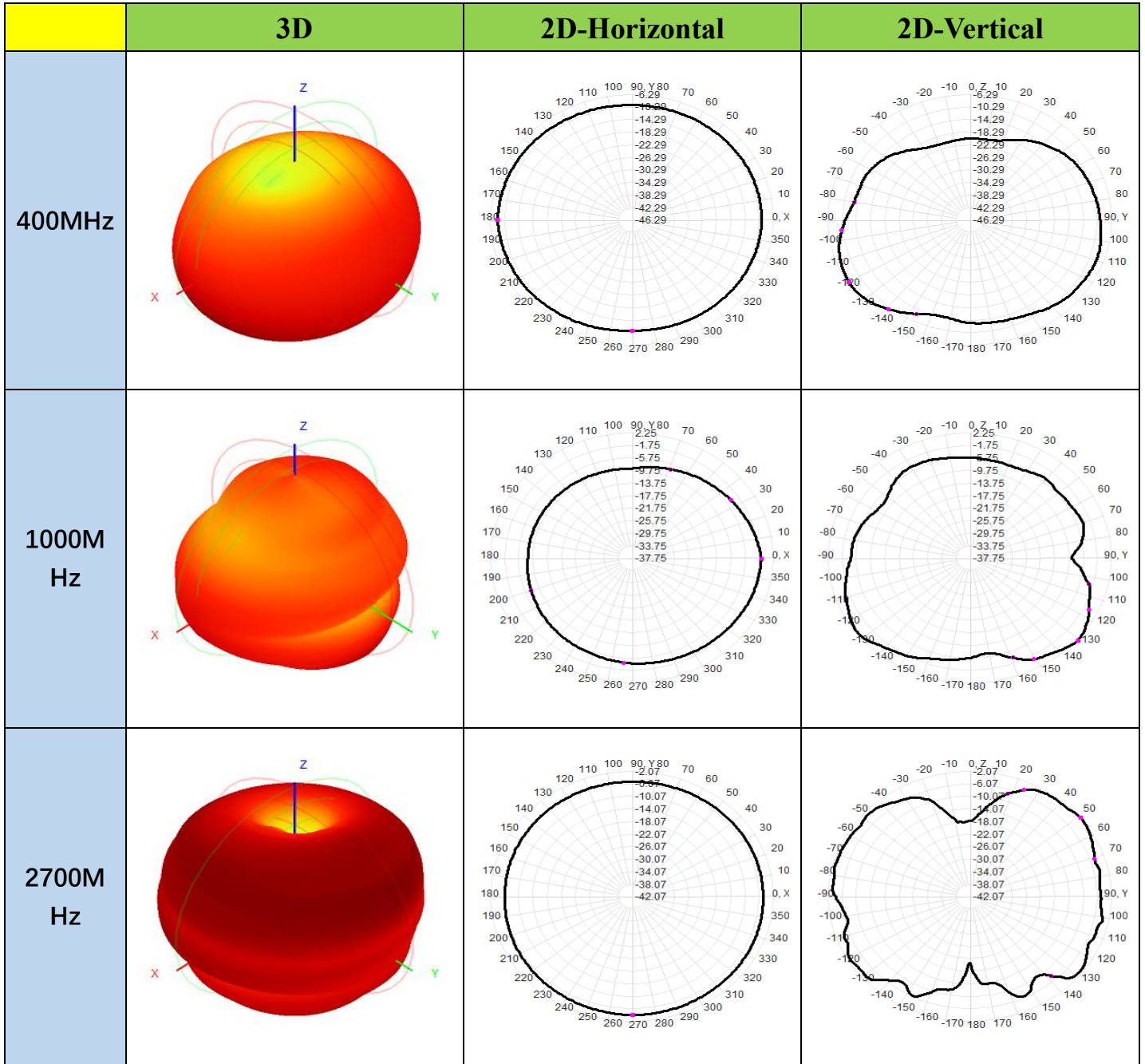
2.1. VSWR



2.2. Total Efficiency & Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)	Frequency(MHz)	Gain(dBi)	Efficiency(%)
400	-6.3	9.3	3300	-0.1	45.6
500	-5.3	11.3	3400	-0.4	42.3
600	2.6	45.3	3500	0.0	40.4
700	1.0	39.7	3600	0.6	40.0
800	-0.3	35.2	3700	0.7	37.6
900	0.3	44.4	3800	1.6	41.9
1000	2.3	52.7	3900	2.5	53.9
1100	3.6	65.3	4000	2.1	58.2
1200	2.3	42.7	4100	1.9	52.3
1300	0.1	24.6	4200	1.3	42.1
1400	0.6	30.8	4300	0.6	32.3
1500	1.2	33.9	4400	-0.3	25.0
1600	2.9	46.5	4500	0.5	38.6
1700	4.2	51.8	4600	0.9	39.0
1800	3.6	50.1	4700	1.1	34.3
1900	3.1	48.9	4800	1.0	32.8
2000	3.1	49.6	4900	1.4	38.5
2100	2.9	37.7	5000	0.9	40.8
2200	2.0	33.8	5100	1.4	39.9
2300	2.8	40.9	5200	1.1	35.4
2400	2.7	46.8	5300	1.1	37.4
2500	0.5	39.7	5400	2.2	39.8
2600	-1.9	34.4	5500	0.9	34.0
2700	-2.1	33.5	5600	-0.4	30.6
2800	-1.9	35.5	5700	-0.6	28.2
2900	-0.6	44.2	5800	0.9	33.8
3000	1.1	59.8	5900	0.6	31.5
3100	0.6	58.9	6000	0.6	32.4
3200	0.1	49.4			

2.3 Radiation Pattern



	3D	2D-Horizontal	2D-Vertical
4000M Hz			
5000M Hz			
6000M Hz			

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3. Mechanical Drawing

