

1. Specification

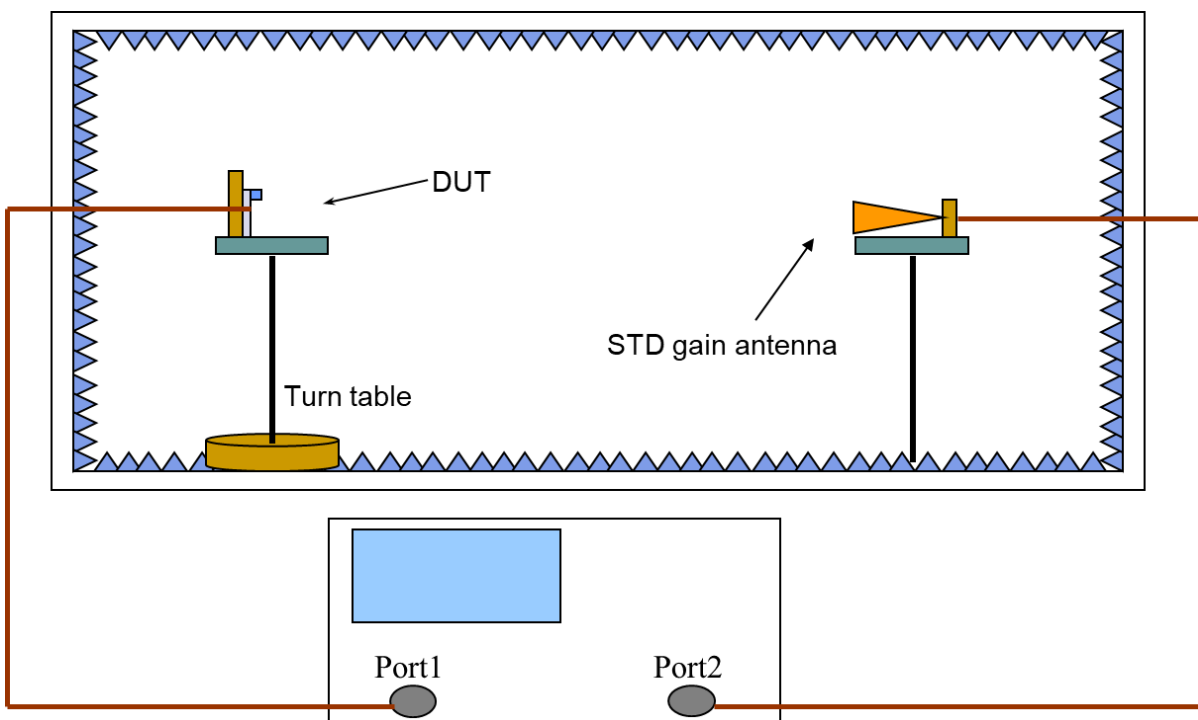
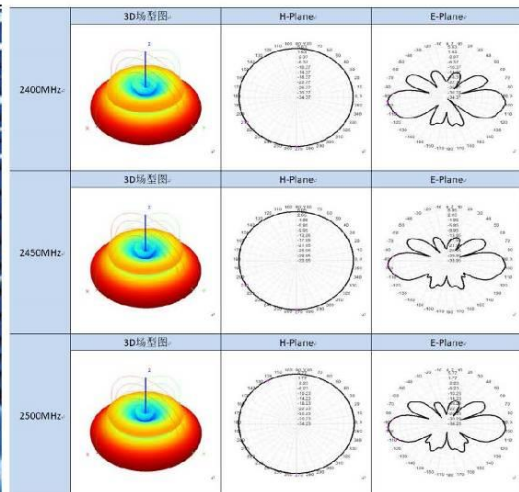
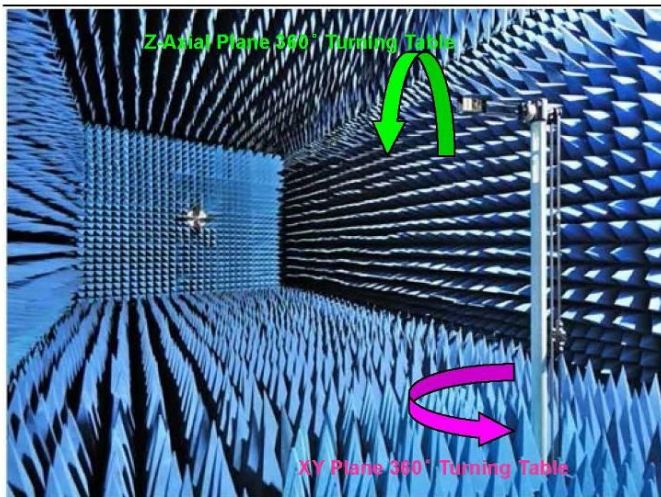
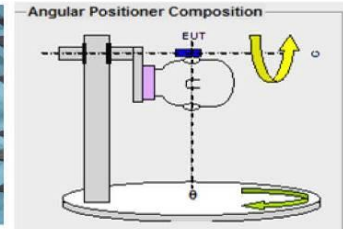
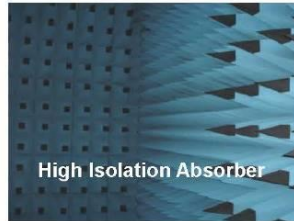
Sample Photo		
		
A. Electrical Characteristics		
Frequency	617-960MHz	1710-6000MHz
Impedance	50 Ohm	50 Ohm
S.W.R.	<3.0	<3.0
Gain	3.5dBi	6dBi
Efficiency	≈58%	≈71%
Horizontal Beamwidth	360°	360°
Vertical Beamwidth	56° @800MHz	35° @1980MHz
Polarization	Linear	Linear
Max Power	50W	50W
B. Material & Mechanical Characteristics		
Connector Type	N connector	
Dimension	Φ 20*300mm	
Weight	0.134Kg	
Radome material	Fiberglass	
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

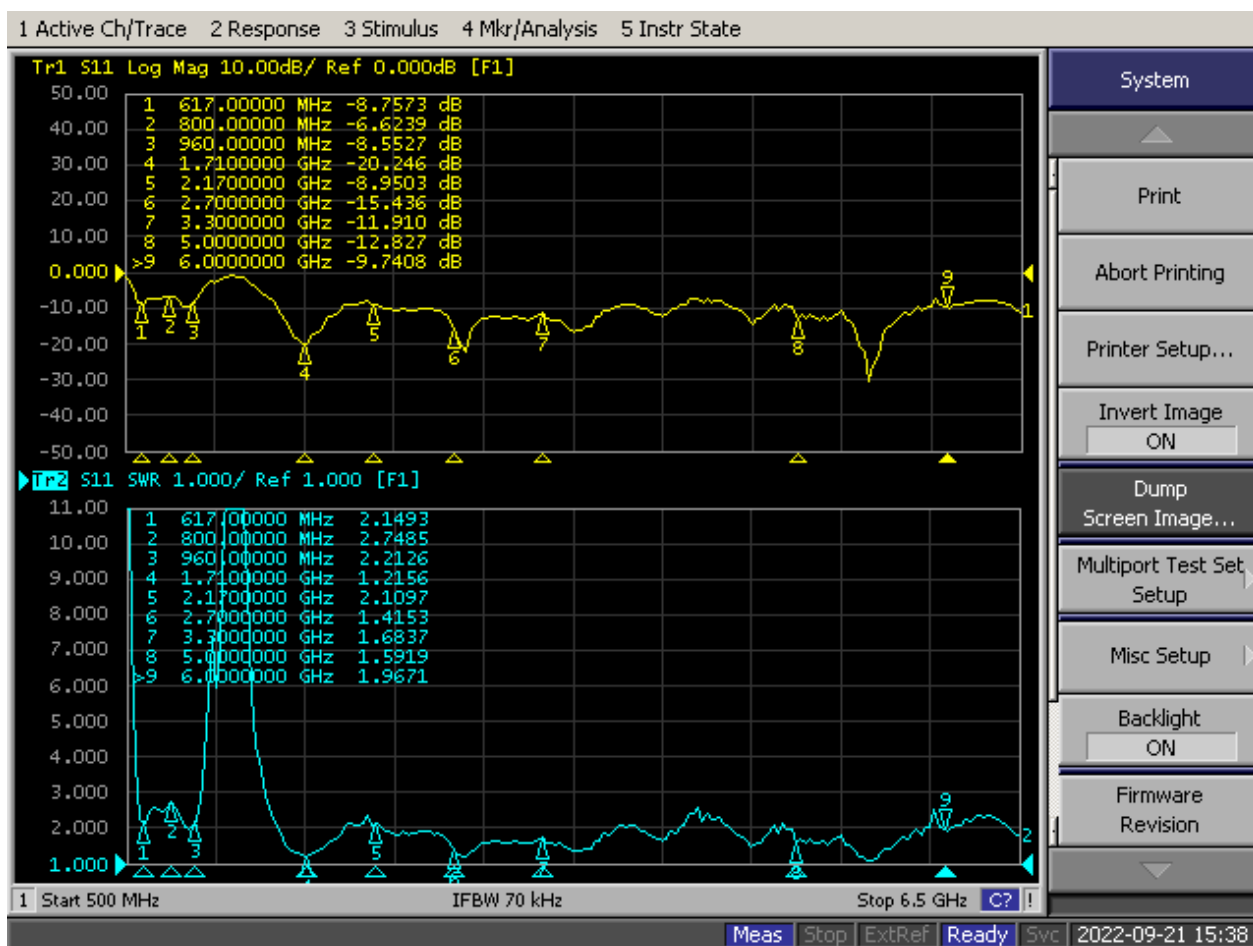
- .Chamber Size: 9 x 5 x 4 m³
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software





Product Number: BGS-AN5000-20300G
Product Name: 5G Fiberglass Antenna
2. Antenna - S Parameter Test Data

2.1. VSWR





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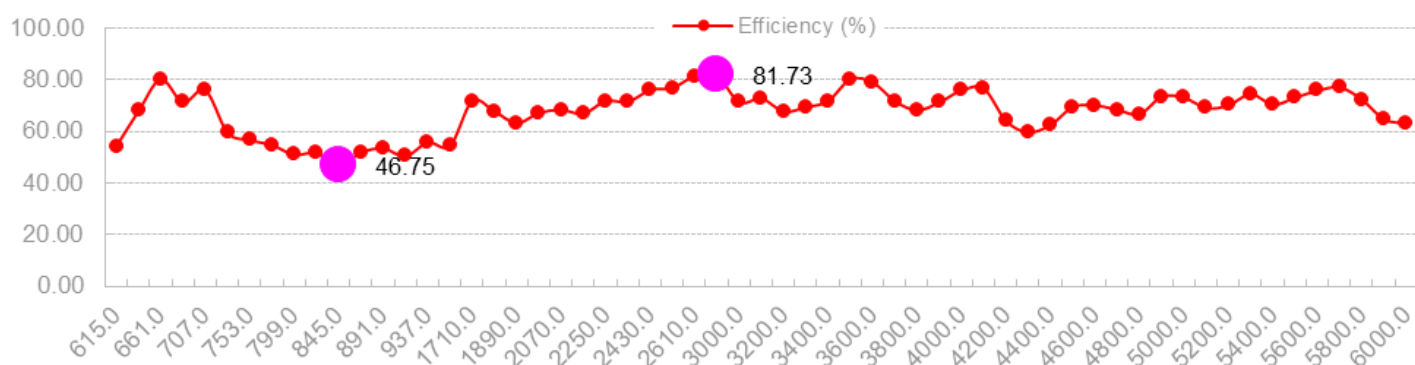
2.2 Total Efficiency & Gain:

Frequency(MHz)	615	638	661	684	707	730	753	776	799	822	845	868	891	914	937	960
Gain (dBi)	0.02	1.22	2.02	1.78	2.07	1.09	1.07	1.17	1.05	1.35	1.34	2.04	2.21	2.28	2.99	3.54
Efficiency (%)	54.38	68.07	80.29	71.40	76.10	59.73	56.78	54.89	51.16	51.85	46.75	52.03	53.60	50.56	55.97	54.62

Frequency(MHz)	1710	1800	1890	1980	2070	2160	2250	2340	2430	2520	2610	2700
Gain (dBi)	4.43	3.69	3.01	2.62	2.98	2.96	3.46	3.27	3.53	3.79	3.86	4.00
Efficiency (%)	71.85	67.94	63.35	67.31	68.53	67.02	71.95	71.63	76.17	76.95	81.57	81.73

Frequency(MHz)	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Gain (dBi)	3.13	2.62	2.82	3.45	4.05	4.97	4.88	4.39	4.15	4.23	4.75	5.16	4.47	4.99	5.11	5.54
Efficiency (%)	71.44	72.92	67.88	69.56	71.94	80.32	79.11	71.89	68.36	71.43	76.04	76.65	64.20	59.83	62.70	69.64

Frequency(MHz)	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	5600	5700	5800	5900	6000
Gain (dBi)	5.52	5.42	5.01	4.77	5.68	6.01	5.33	5.45	4.60	4.67	4.88	5.10	4.98	4.53	4.60
Efficiency (%)	70.21	68.54	66.84	73.62	73.19	69.21	70.30	74.63	70.50	73.28	75.93	77.20	72.41	64.81	63.33





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2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
615MHz			
800MHz			
960MHz			



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	3D	2D-Horizontal	2D-Vertical
1710M Hz			
3500M Hz			
6000M Hz			



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3. Mechanical Drawing

