




Product Number: BGS-AN1700-20450B
Product Name: Gooseneck Antenna 220-1700MHz

1. Specification

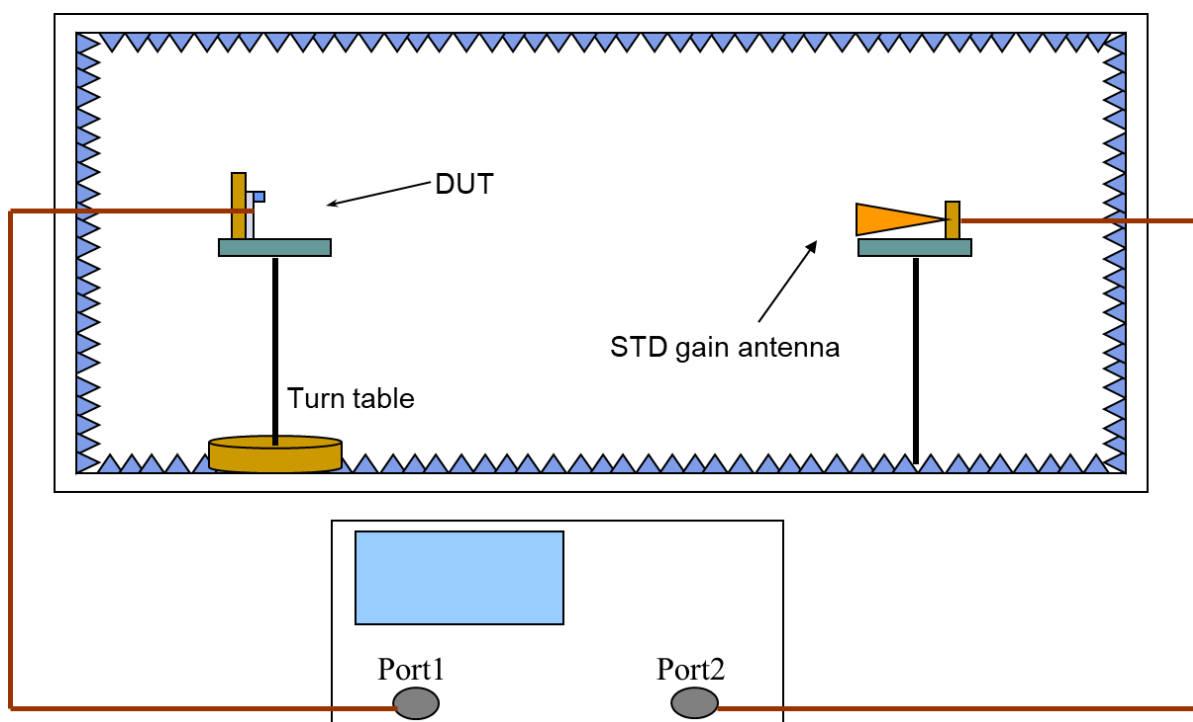
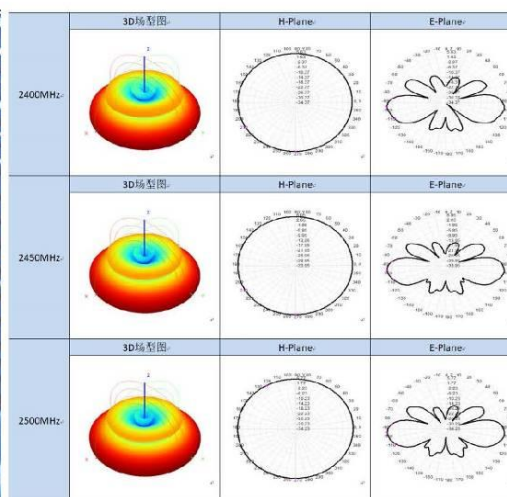
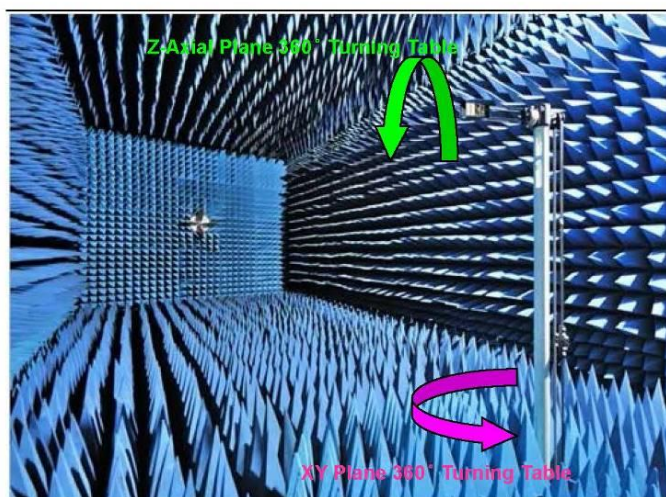
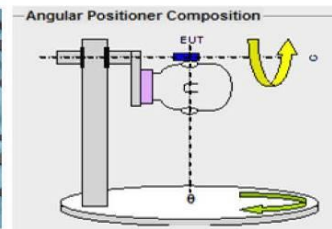
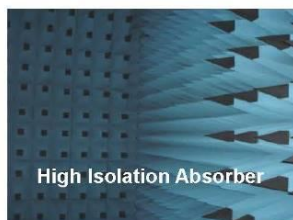
Sample Photo	
	
A. Electrical Characteristics	
Frequency	220-1700MHz
Impedance	50 Ohm
S.W.R.	<2.0
Gain	0dBi
Efficiency	≈79%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	14-100°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	TNC connector
Dimension	Φ 20*450mm
Weight	0.173Kg
Radome Materials	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

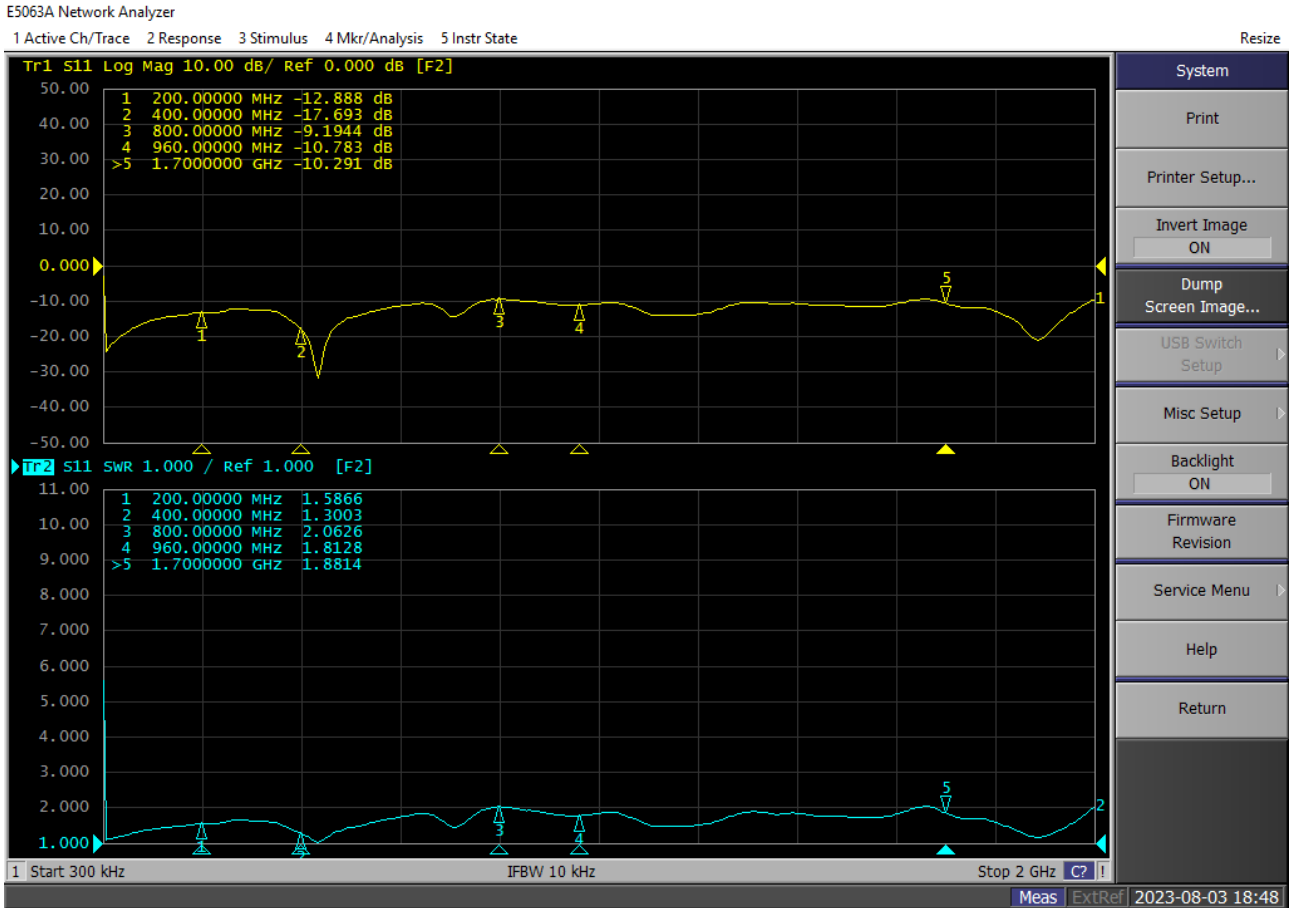




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2. Antenna - S Parameter Test Data

2.1. VSWR





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2.2 Total Efficiency & Gain:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
220	-6.3	13.8
240	-4.5	19.5
260	-5.4	15.6
280	-5.4	14.1
300	-5.3	13.8
320	-2.9	19.2
340	-2.5	21.6
360	-3.0	16.1
380	-3.1	17.6
400	-1.6	23.2
450	-1.8	22.3
500	-3.1	14.9
550	-2.4	12.6
600	-0.6	16.9
650	-1.2	19.3
700	-1.9	26.2
750	-3.1	26.5
800	-2.7	28.2
850	-4.2	20.7
900	-3.7	21.5
950	-3.2	21.8
1000	-2.9	21.2
1050	-3.6	17.5
1100	-0.9	27.8
1150	-1.3	26.6
1200	-1.9	24.1
1250	-1.3	23.0
1300	-0.8	23.0
1350	-0.3	25.7
1400	1.0	32.6
1450	0.4	29.4
1500	-0.6	24.1



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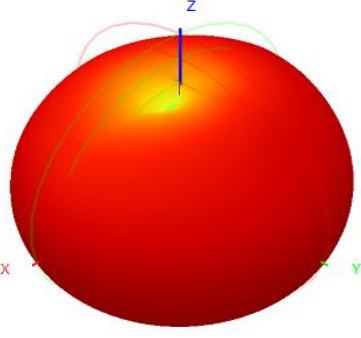
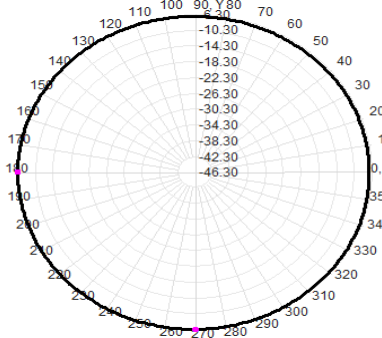
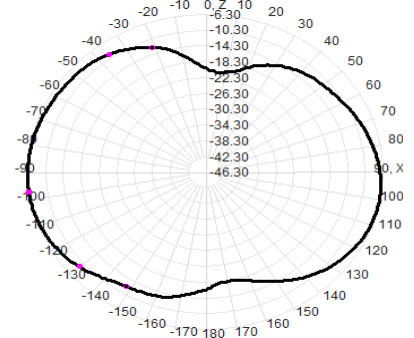
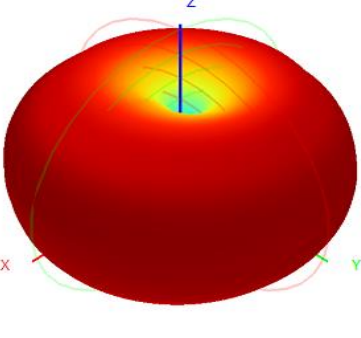
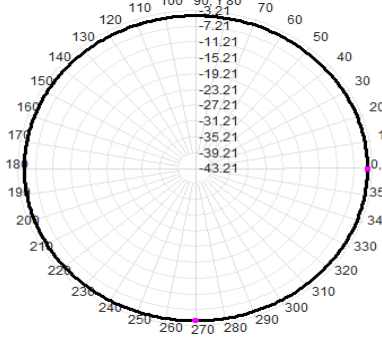
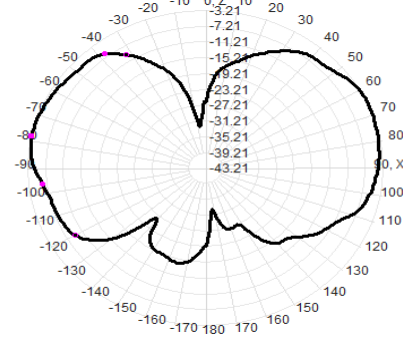
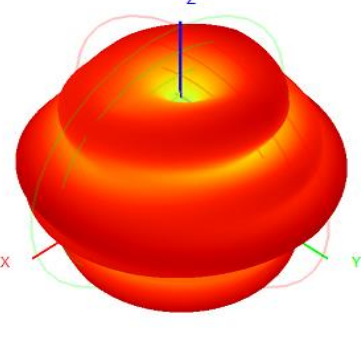
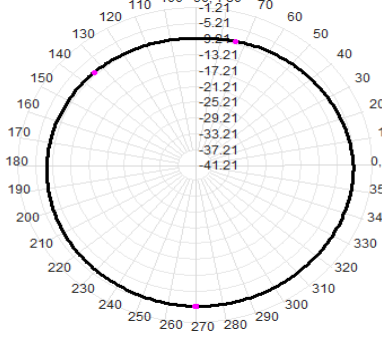
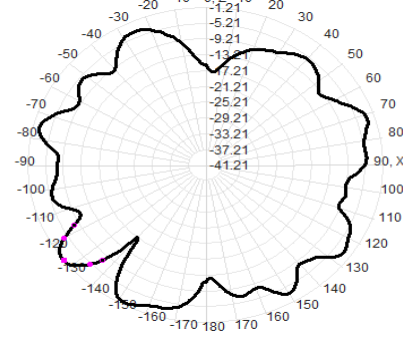
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1550	-0.9	22.2
1600	-0.5	22.6
1650	-0.7	23.0
1700	-1.2	25.8



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2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
220MHz			
950MHz			
1700M Hz			



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3. Mechanical Drawing

