




## 1. Specification

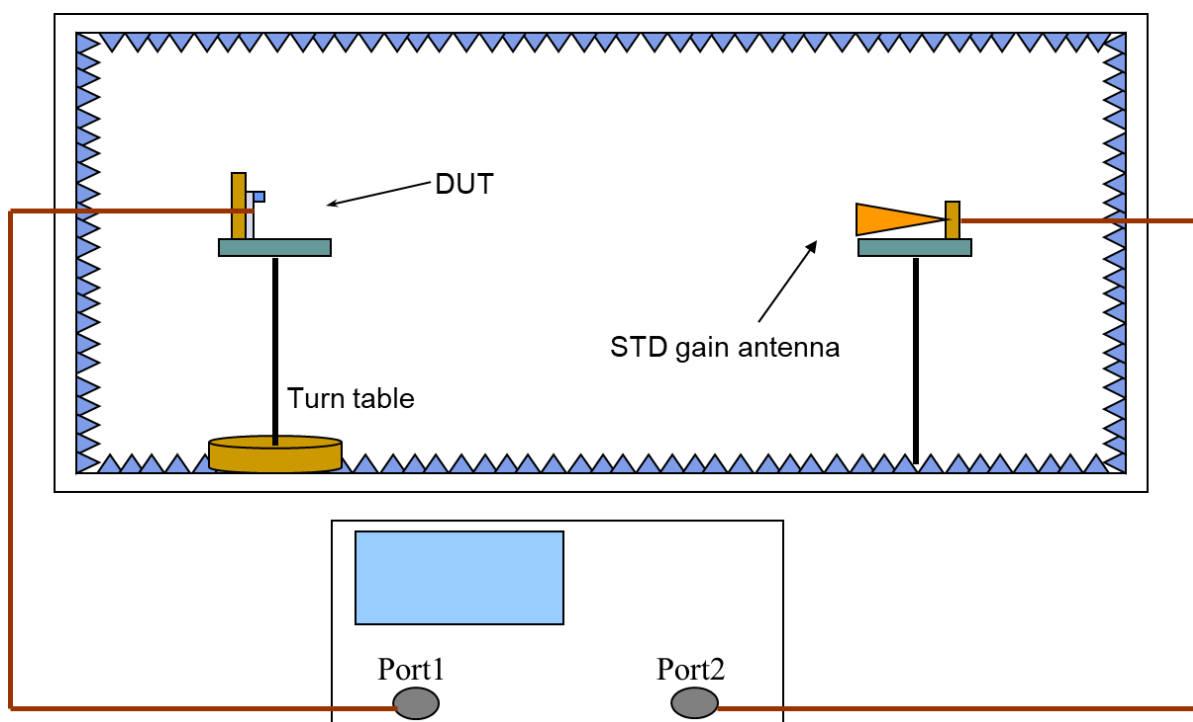
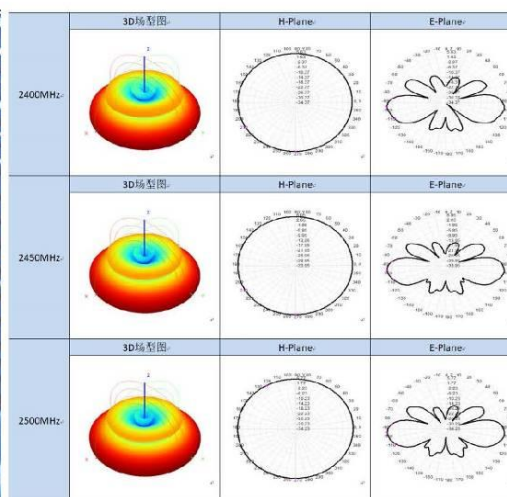
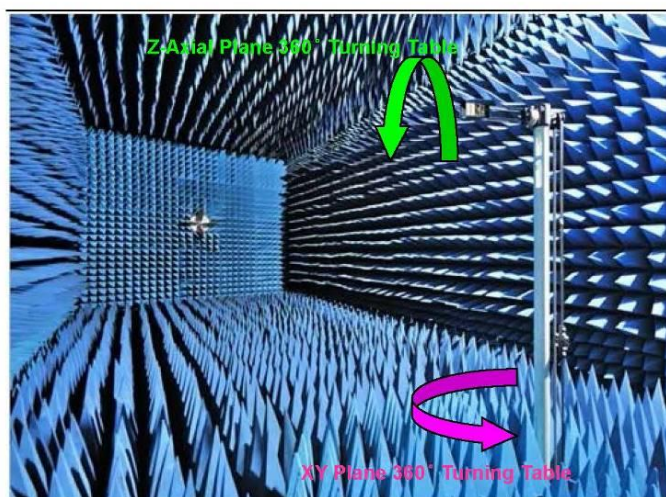
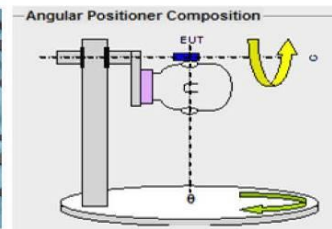
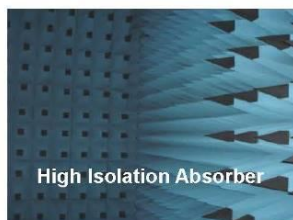
Sample Photo		
		
A. Electrical Characteristics		
Frequency	700-960MHz	1710-2700MHz
S.W.R.	<= 2.0	<= 2.5
Antenna Gain	1dBi	2dBi
Efficiency	≈47%	≈47%
Polarization	Linear	Linear
Horizontal Beamwidth	360°	360°
Vertical Beamwidth	35-95°	40-95°
Impedance	50 Ohm	
Max Power	50W	
B. Material & Mechanical Characteristics		
Cable Type	RF1.13 Cable	
Connector Type	MHF1 Plug	
Dimension	106.5*14mm	
Weight	0.003Kg	
C. Environmental		
Operation Temperature	- 40 °C ~ + 65 °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 m<sup>3</sup>
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software





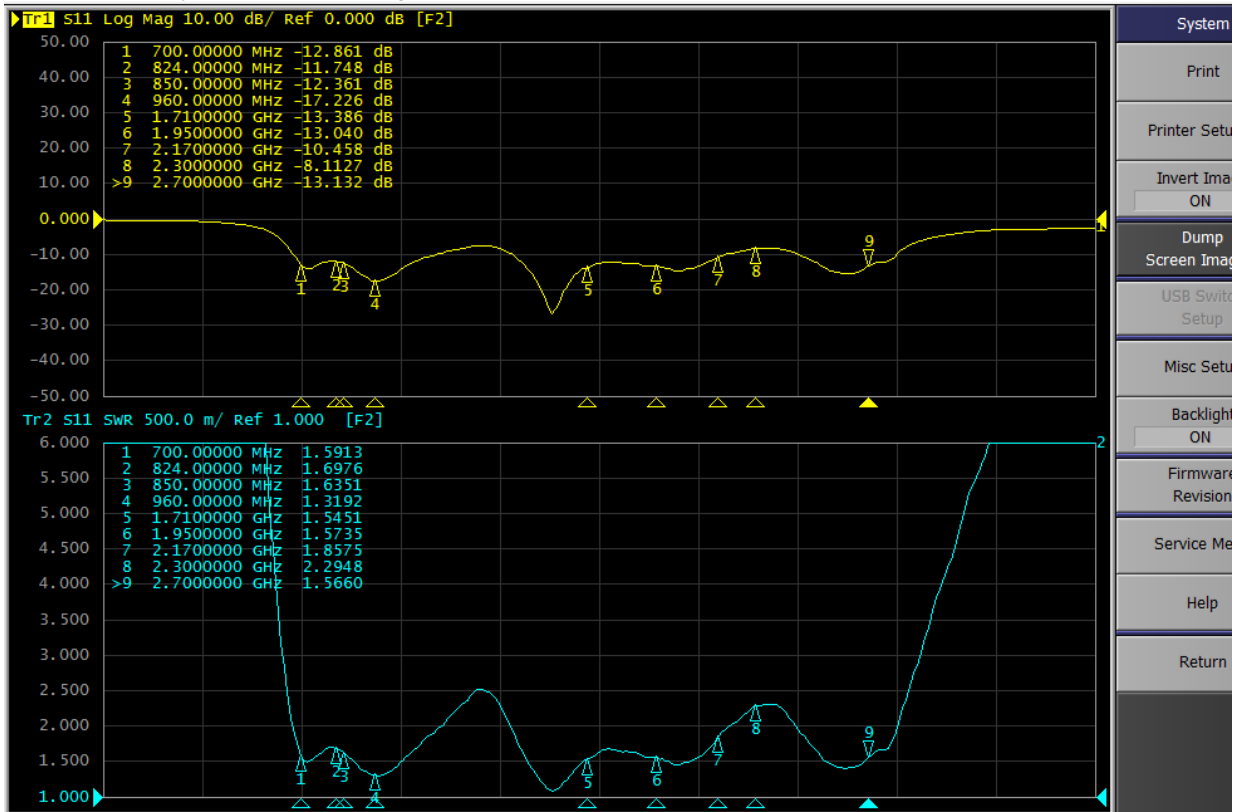
Product Number: BGS-AN4000-10614G-0150  
Product Name: 4G LTE Embedded Antenna

## 2. Antenna - S Parameter Test Data

### 2.1. VSWR

E5063A Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State





## 2.2. Total Efficiency & Gain:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
690	-0.6	30.5
720	-0.1	37.6
750	0.5	43.1
780	0.7	47.9
810	0.5	49.5
840	0.4	46.9
870	0.3	45.8
900	1.1	53.6
930	0.7	53.2
960	1.9	62.9
1700	2.3	49.3
1800	1.5	45.3
1900	1.4	50.1
2000	1.7	54.3
2100	1.8	54.4
2200	1.7	46.2
2300	0.7	35.3
2400	0.7	41.5
2500	0.8	46.2
2600	0.6	45.6
2700	-0.4	40.6



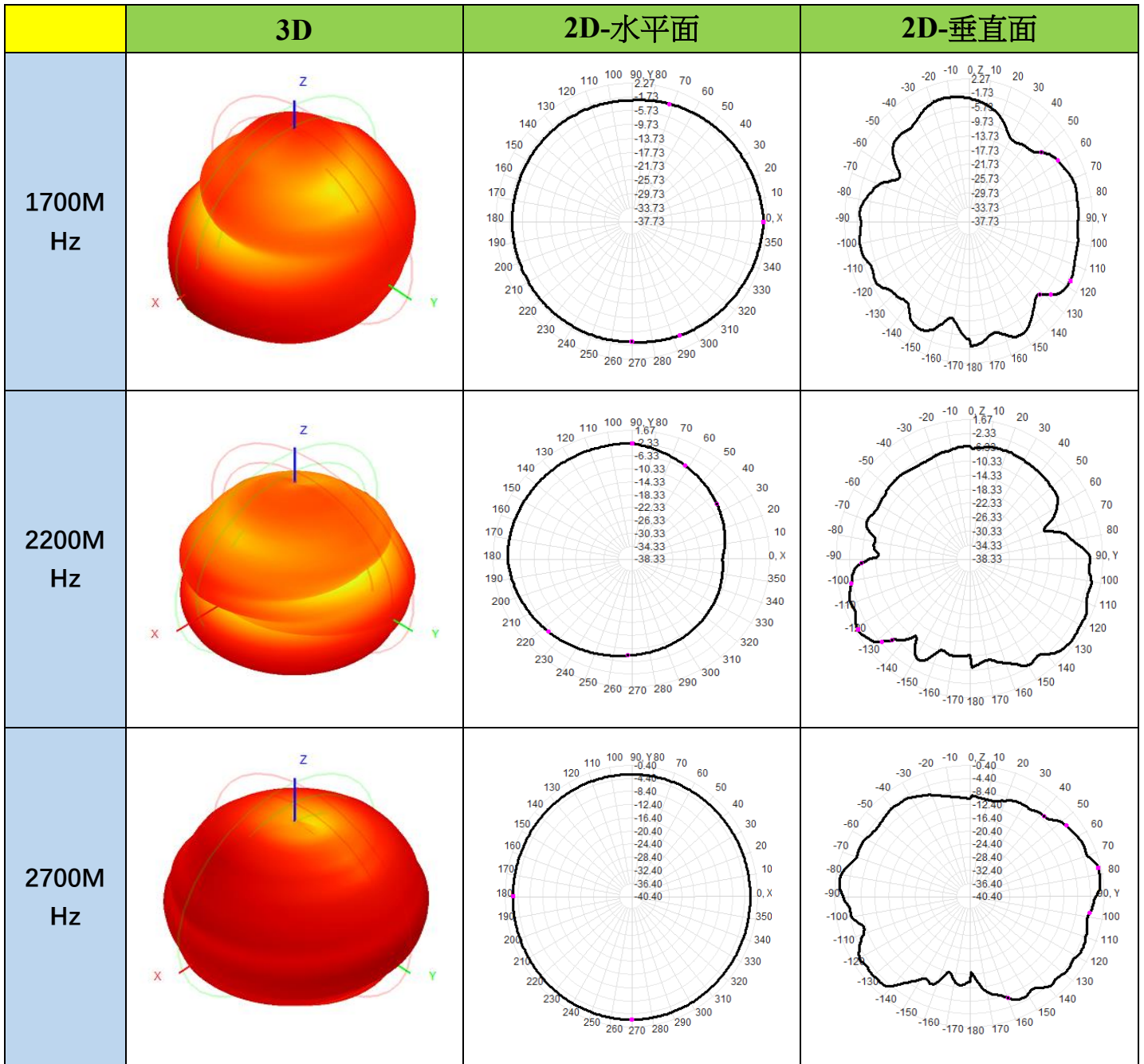
Product Number: BGS-AN4000-10614G-0150  
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### 2.3 Radiation Pattern

	3D	2D-水平面	2D-垂直面
700MHz			
840MHz			
960MHz			



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### 3. Mechanical Drawing

