


1. Specification

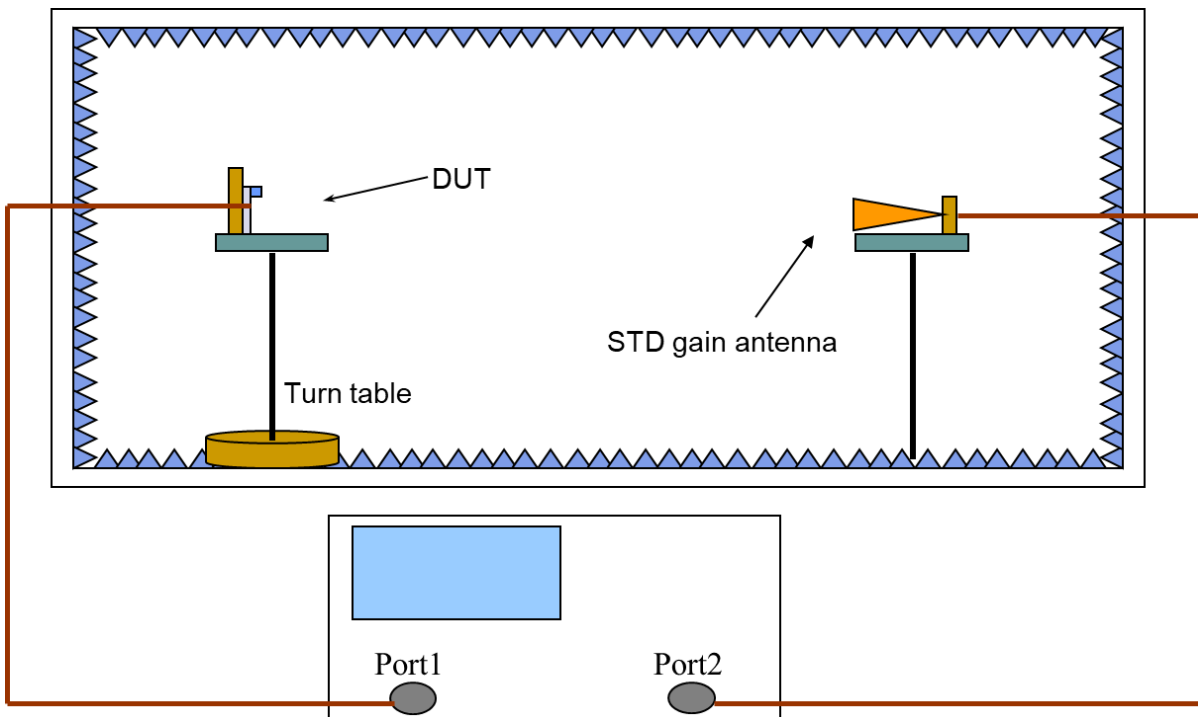
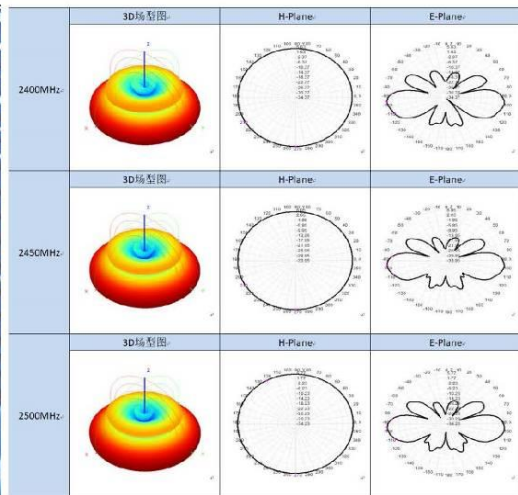
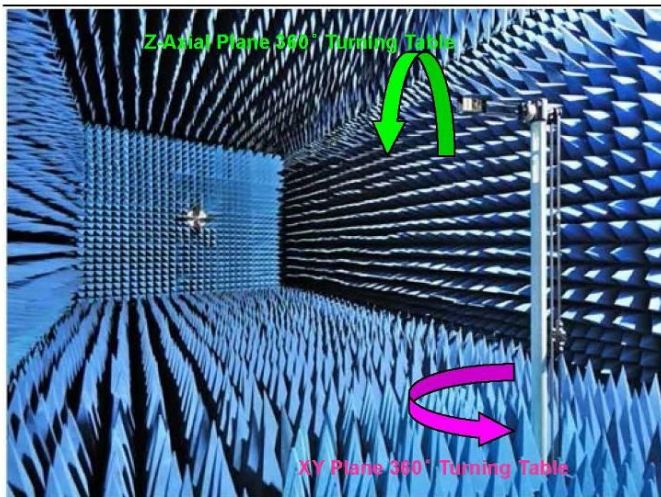
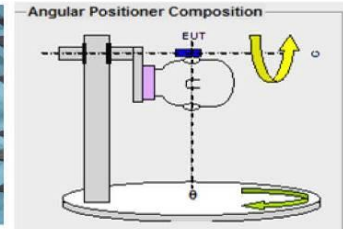
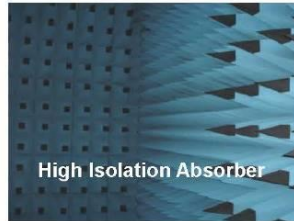
Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz
Impedance	50 Ohm
S.W.R.	<2.0
Gain	-2.1dBi
Efficiency	≈12%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	25-28°
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	SMA connector
Cable Type	RG174 Cable
Dimension	Φ 30*223mm
Weight	0.046Kg
Antenna material	Carbon Steel
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

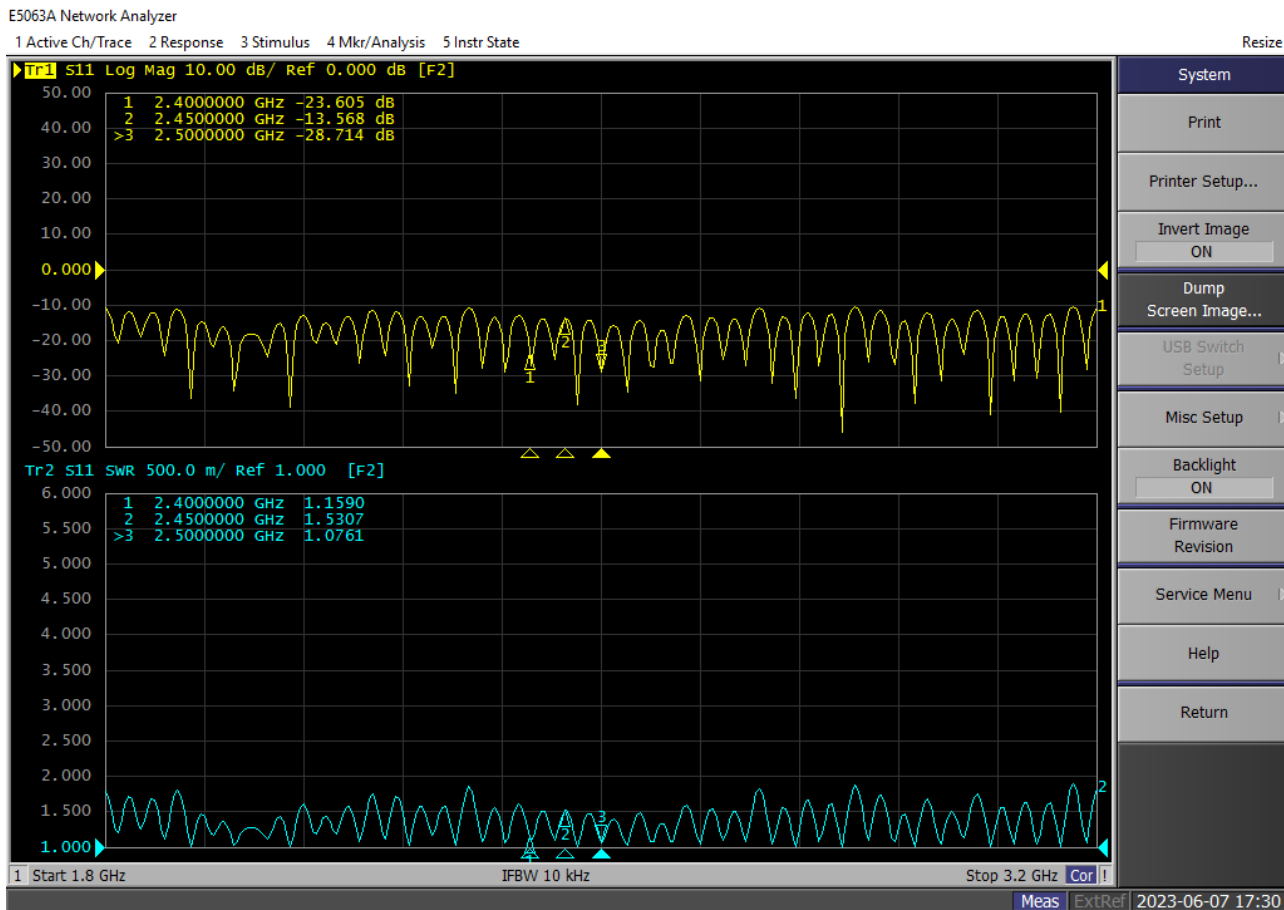




Product Number: BGS-AN2400-30223B
Product Name: Magnetic Antenna 2.4GHz

2. Antenna - S Parameter Test Data

2.1. VSWR

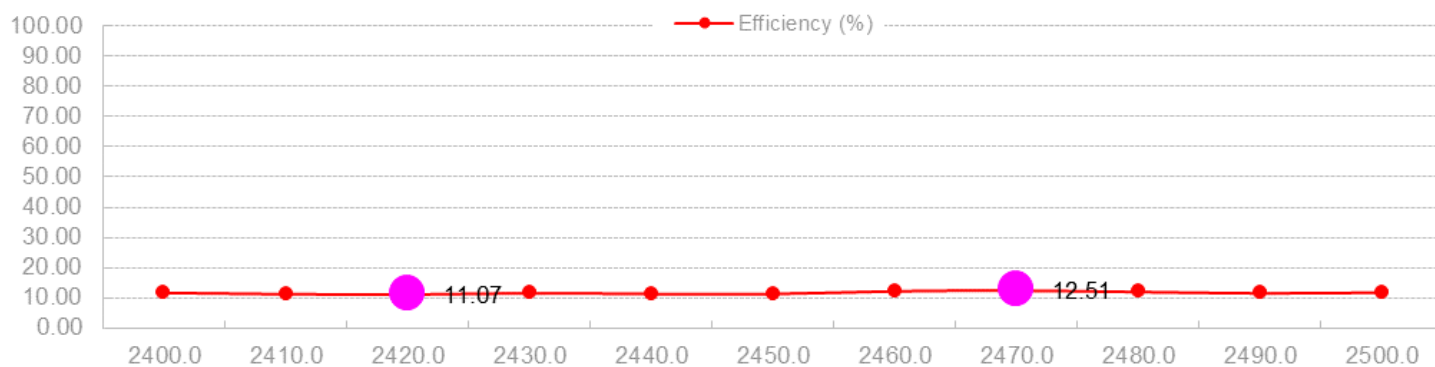




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2.2 Total Efficiency & Gain:

Frequency(MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-3.28	-3.33	-3.25	-3.05	-3.05	-2.92	-2.43	-2.15	-2.21	-2.28	-2.13
Efficiency (%)	11.68	11.18	11.07	11.54	11.27	11.27	12.24	12.51	11.99	11.52	11.75





2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
2400M Hz			
2450M Hz			
2500M Hz			



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3. Mechanical Drawing

