


## 1. Specification

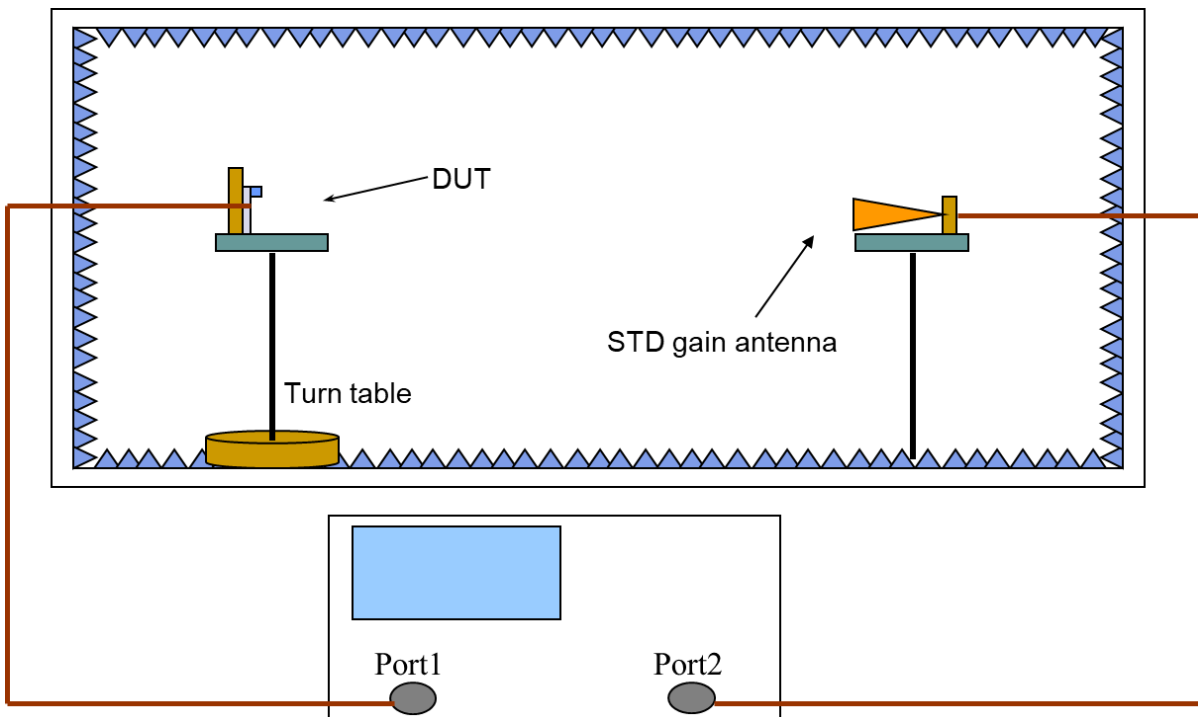
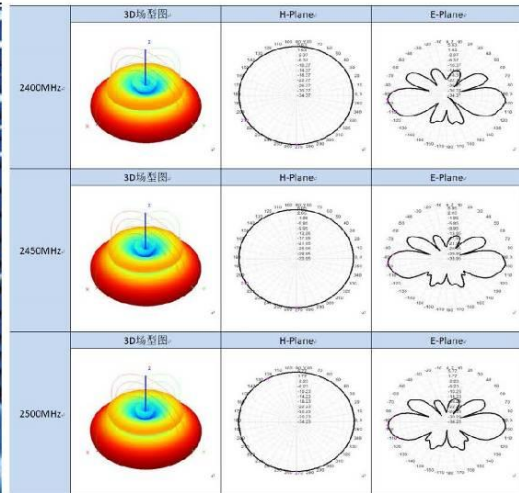
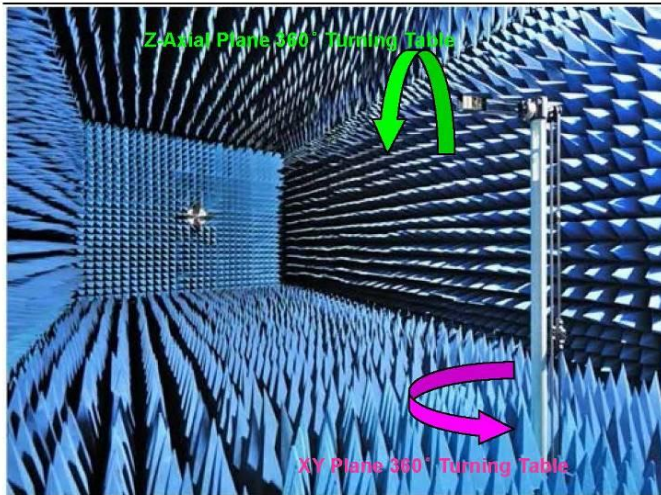
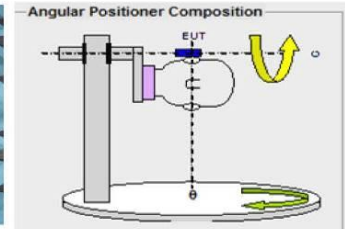
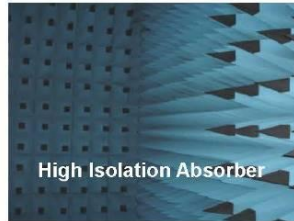
<b>Sample Photo</b>	
	
<b>A. Electrical Characteristics</b>	
Frequency	433MHz
Impedance	50 Ohm
S.W.R.	<2.0
Antenna Gain	1dBi
Efficiency	≈35%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	46°
Max Power	50W
<b>B. Material &amp; Mechanical Characteristics</b>	
Connector Type	N connector
Dimension	Φ 16*200mm
Weight	0.069Kg
Radome material	Fiberglass
<b>C. Environmental</b>	
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

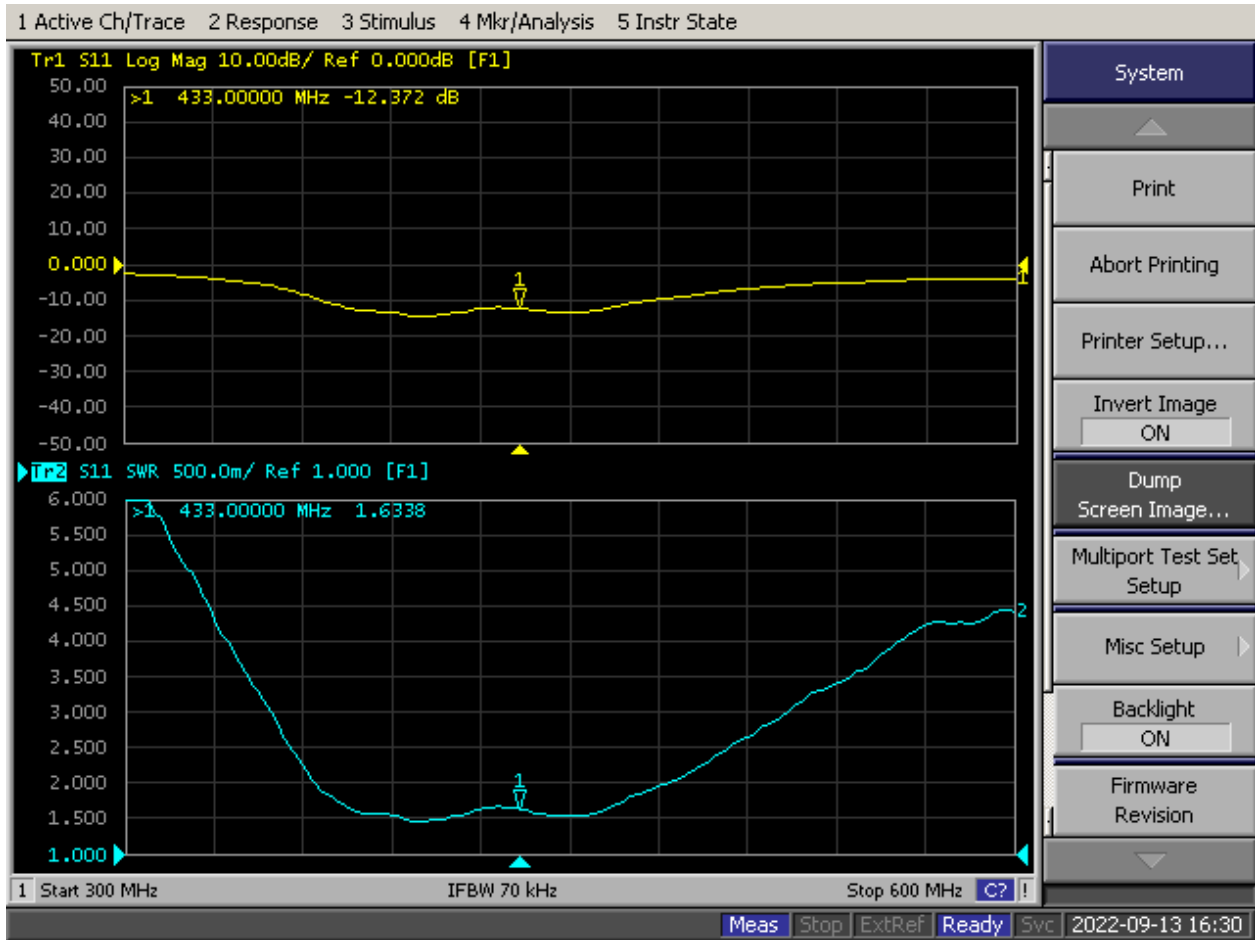
- .Chamber Size: 9 x 5 x 4 m<sup>3</sup>
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software



Product Number: BGS-AN0433-16200G  
 Product Name: 433MHz Omnidirectional Fiberglass Antenna

## 2. Antenna - S Parameter Test Data

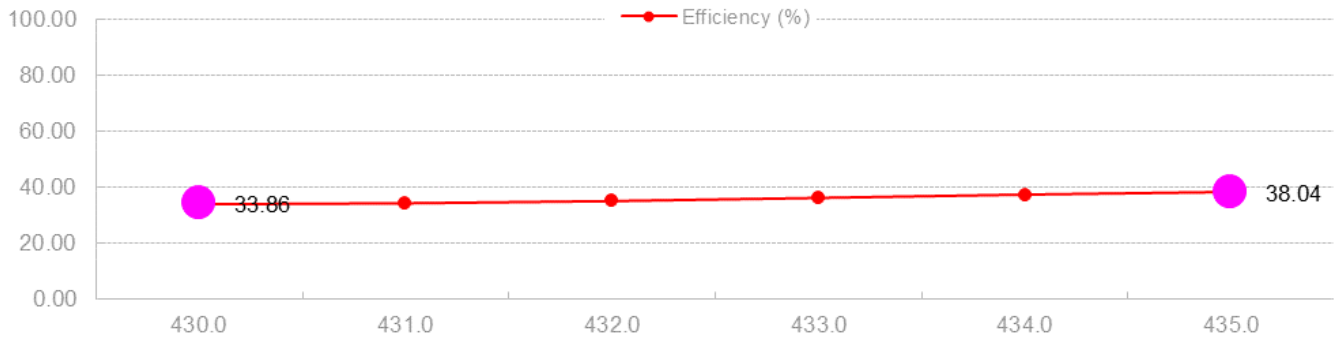
### 2.1. VSWR



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## 2.2. Total Efficiency & Gain:

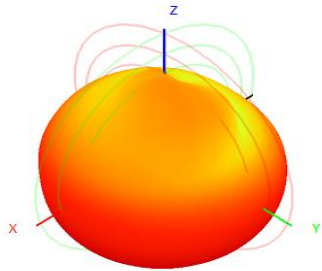
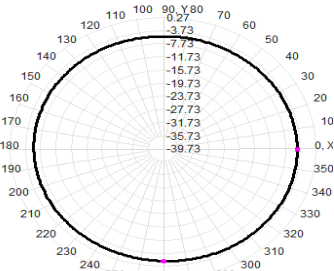
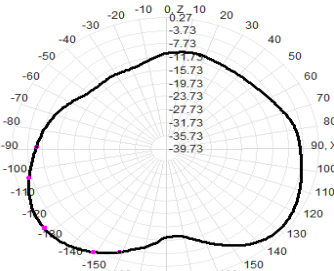
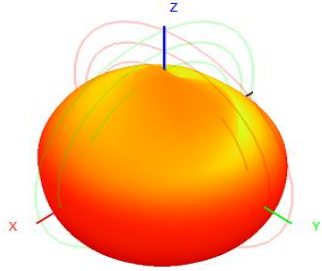
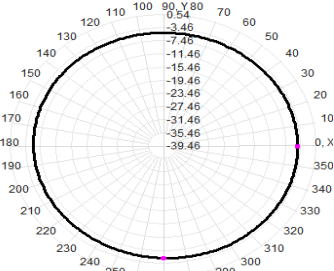
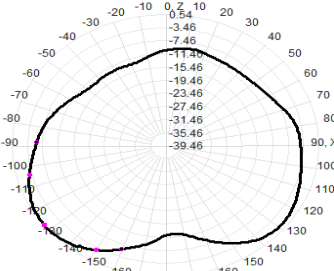
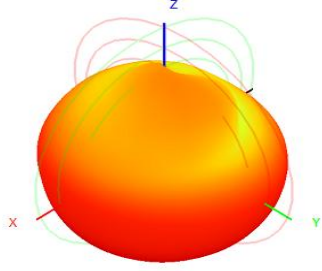
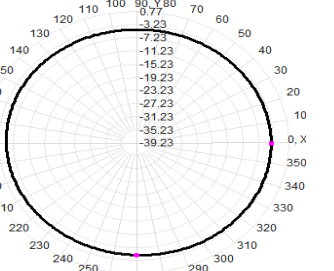
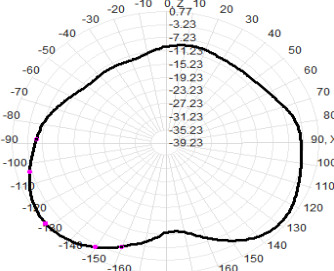
Frequency(MHz)	430.0	431.0	432.0	433.0	434.0	435.0
Gain (dBi)	0.39	0.42	0.52	0.65	0.77	0.87
Efficiency (%)	33.86	34.18	34.95	36.03	37.16	38.04



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### 2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
430MHz			
433MHz			
435MHz			

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### 3. Mechanical Drawing

