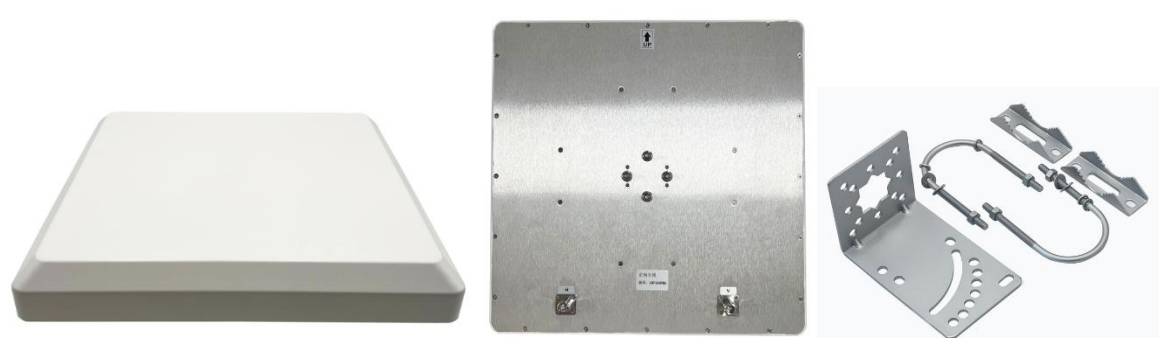


## 1. Specification

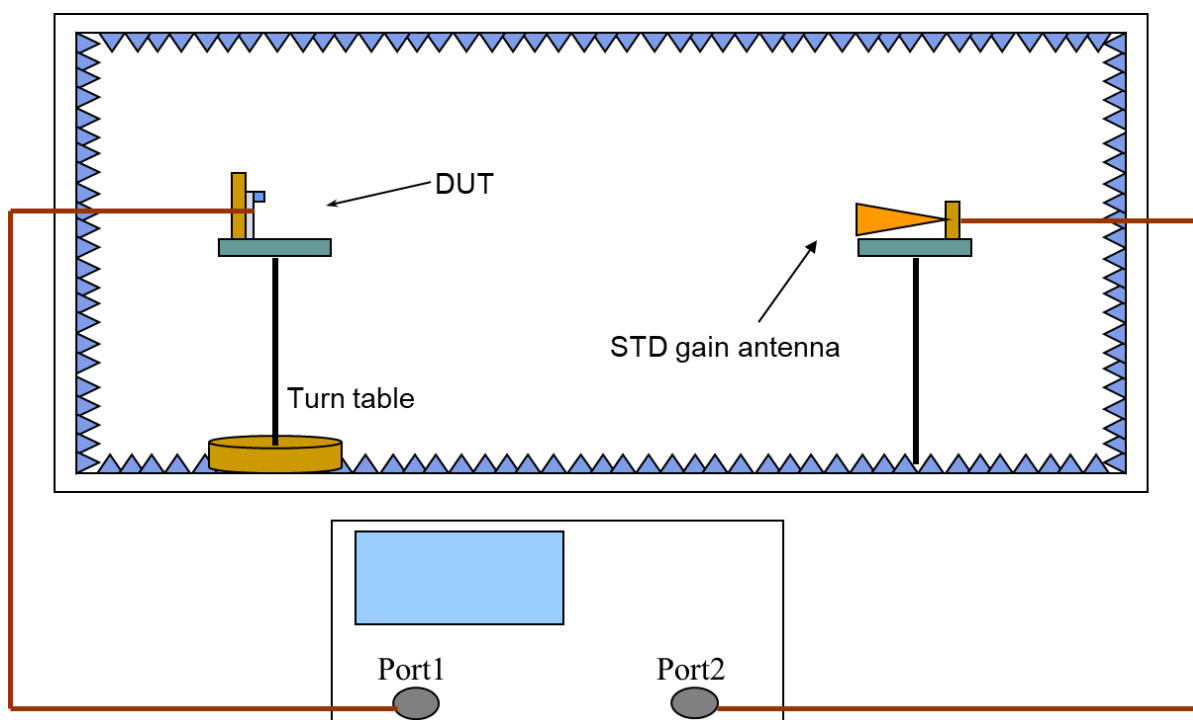
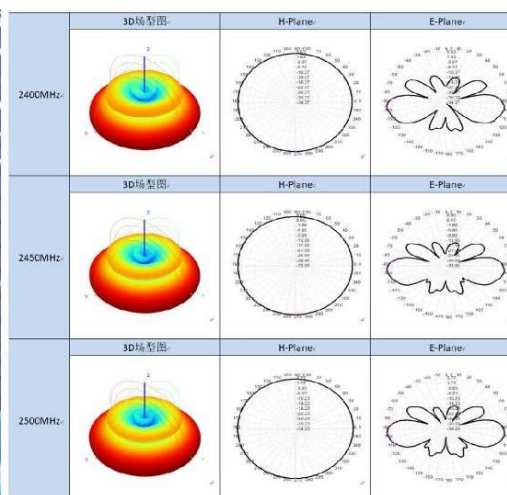
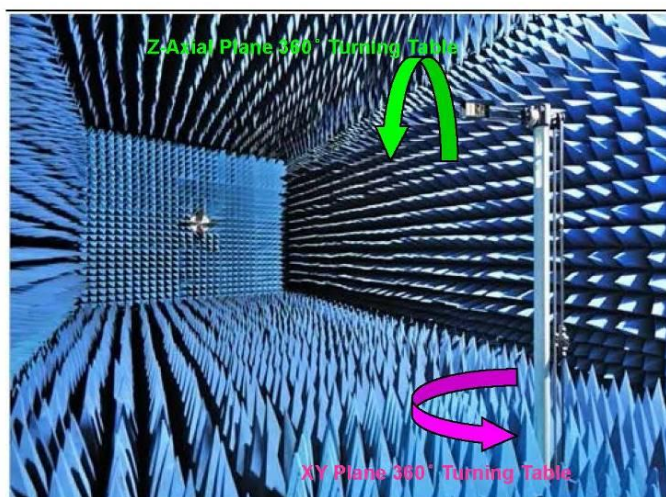
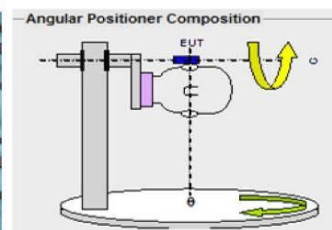
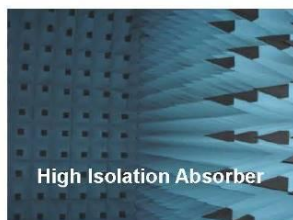
Sample Photo		
		
A. Electrical Characteristics		
Port	Port1	Port2
Frequency	1427-1447MHz	1427-1447MHz
S.W.R.	<2.0	<2.0
Antenna Gain	14dBi	14dBi
Polarization	Horizontal	Vertical
Horizontal Beamwidth	32-33°	36-38°
Vertical Beamwidth	36-38°	32-32°
F/B	28-30dB	28-30dB
Impedance	50Ohm	50Ohm
Max. Power	50W	50W
B. Material & Mechanical Characteristics		
Connector Type	N connector	
Dimension	390*390*50mm	
Radome material	ABS	
Mount Pole	ø30-ø75	
Weight	1.67Kg	
C. Environmental		
Operation Temperature	- 40 °C ~ + 85 °C	
Storage Temperature	- 40 °C ~ + 85 °C	
Operation Humidity	< 95%	
Rated Wind Velocity	36.9m/s	

## 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





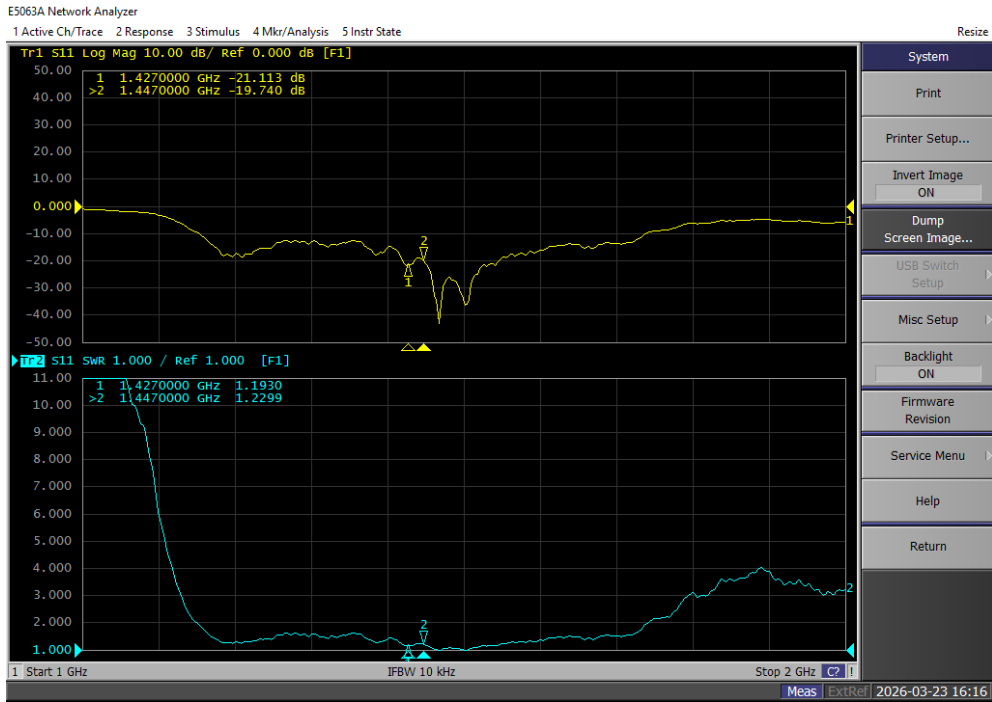
Product Number: BGS-AN1447-39039050G

Product Name: 1427-1447MHZ Flat Panel Antenna 14dBi

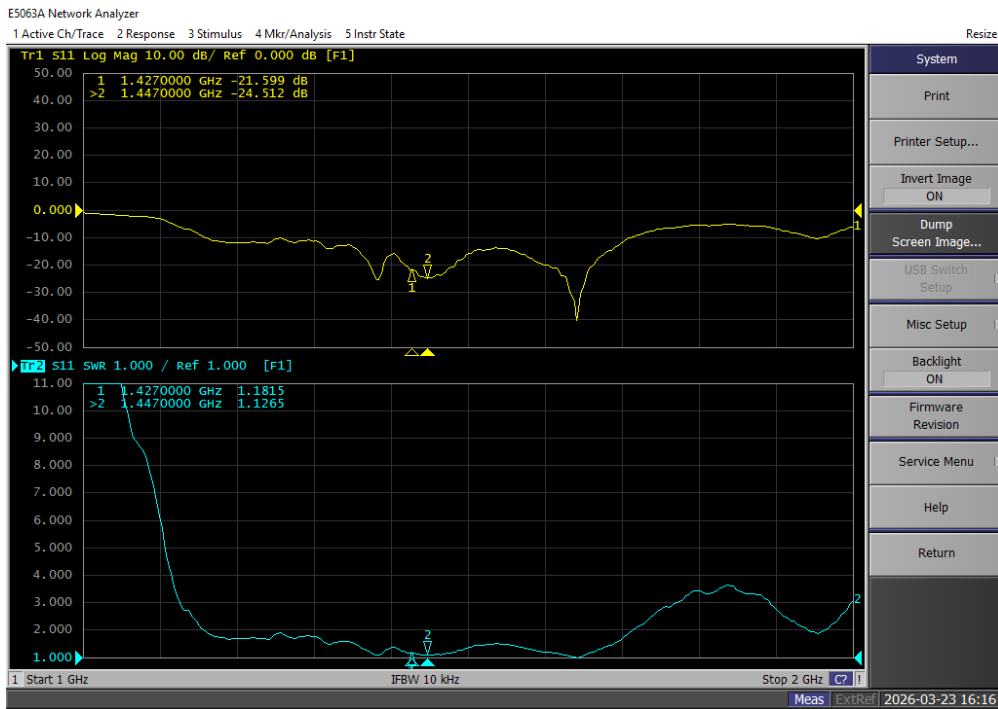
## 2. Antenna - S Parameter Test Data

### 2.1 VSWR

#### Port1



#### Port2





Product Number: BGS-AN1447-39039050G

Product Name: 1427-1447MHZ Flat Panel Antenna 14dBi

## 2.2 Gain:

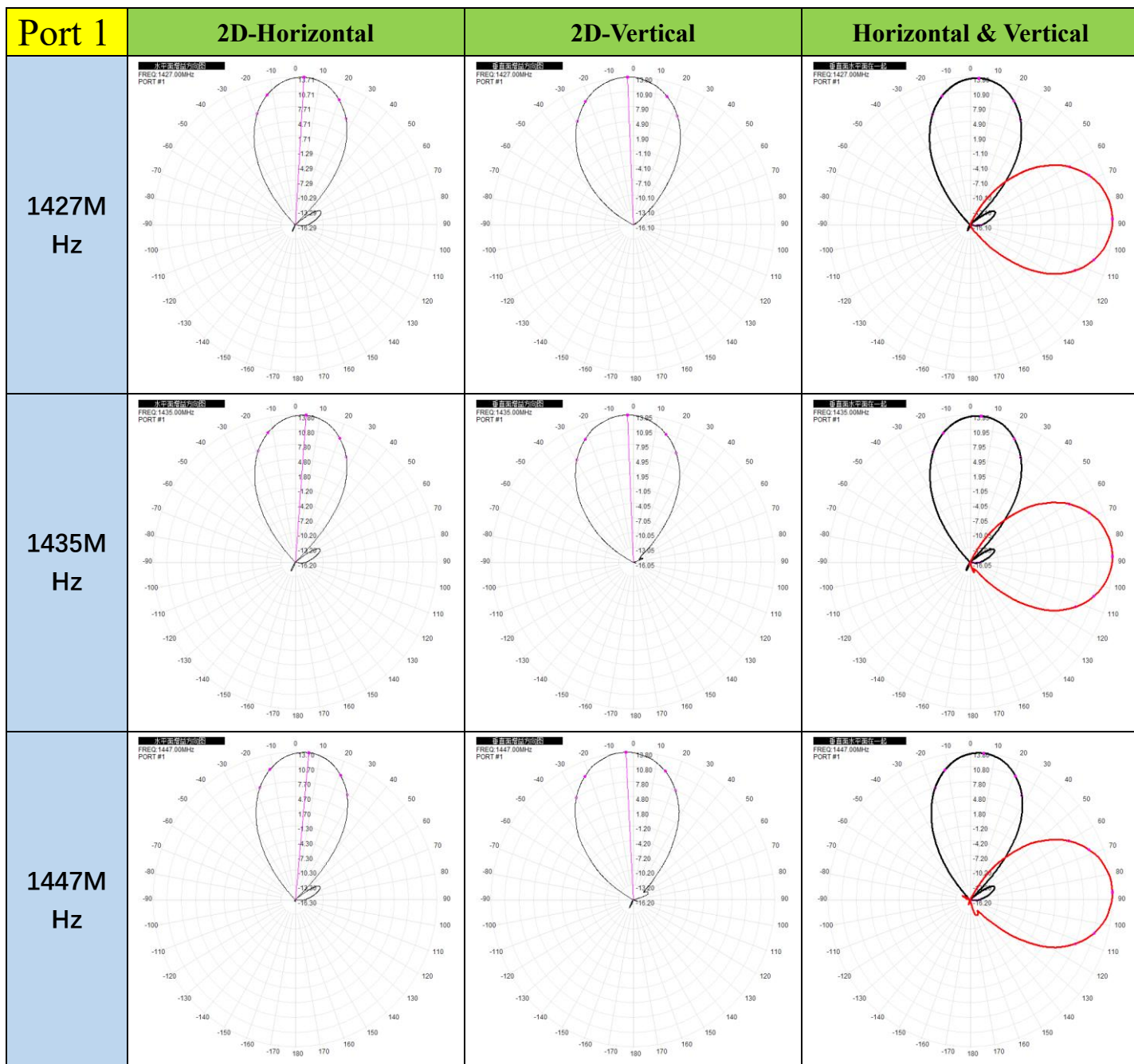
Port 1 (H)		Port 2 (V)	
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
1427	13.9	1427	13.8
1430	13.9	1430	13.9
1435	14.0	1435	14.1
1440	13.9	1440	14.2
1445	13.8	1445	14.1
1447	13.8	1447	14.1



Product Number: BGS-AN1447-39039050G

Product Name: 1427-1447MHZ Flat Panel Antenna 14dBi

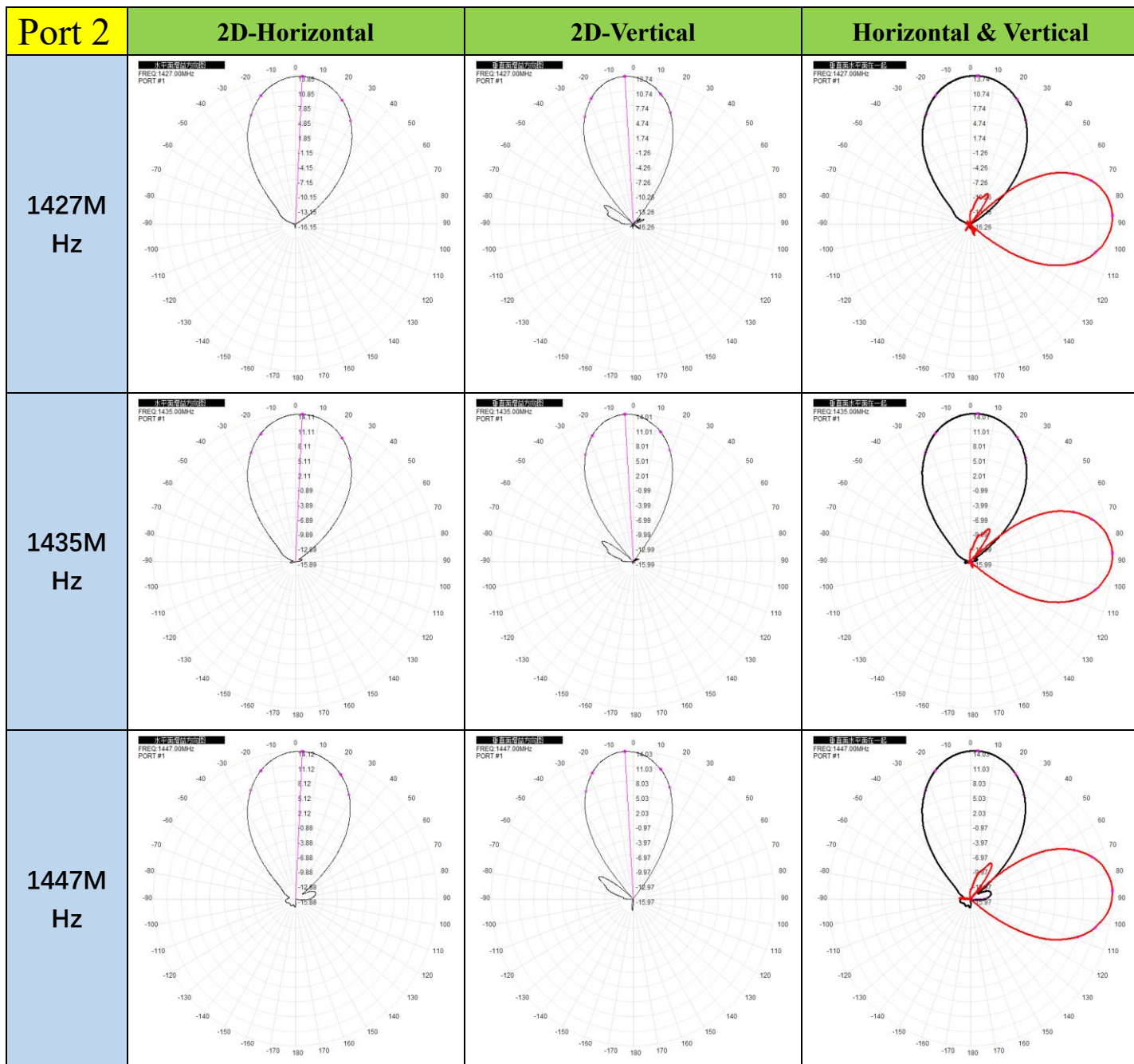
## 2.3 Radiation Pattern





Product Number: BGS-AN1447-39039050G

Product Name: 1427-1447MHZ Flat Panel Antenna 14dBi







Product Number: BGS-AN1447-39039050G

Product Name: 1427-1447MHZ Flat Panel Antenna 14dBi

