


1. Specification

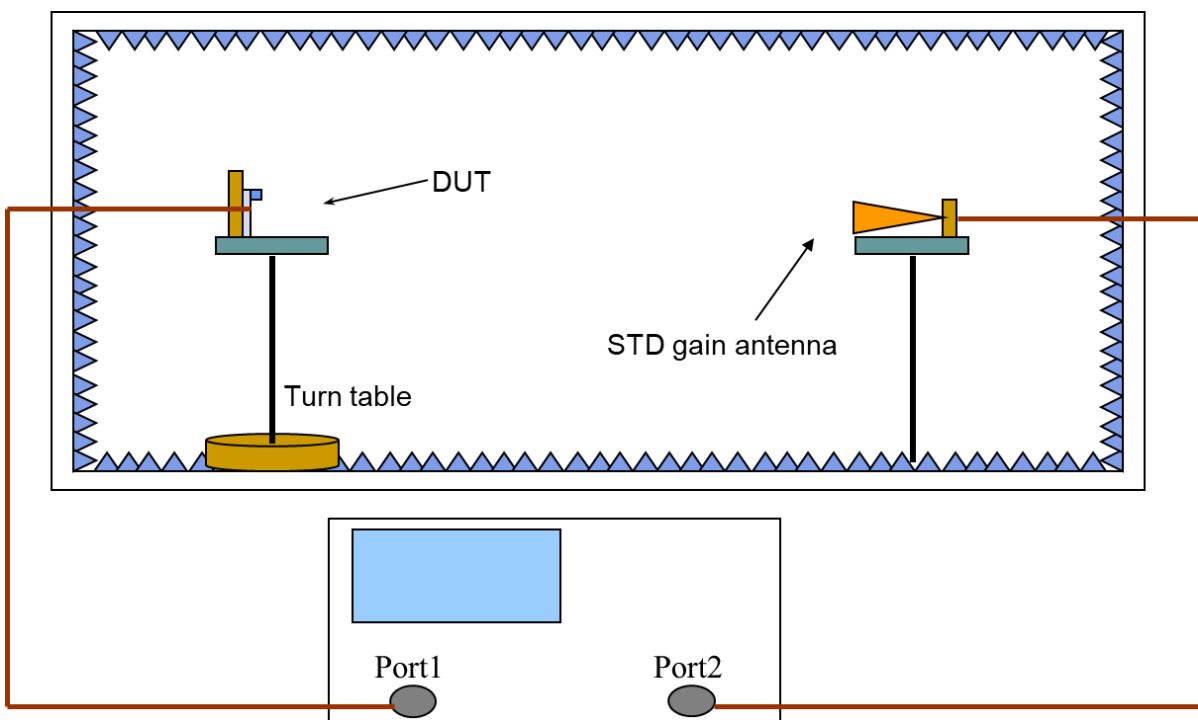
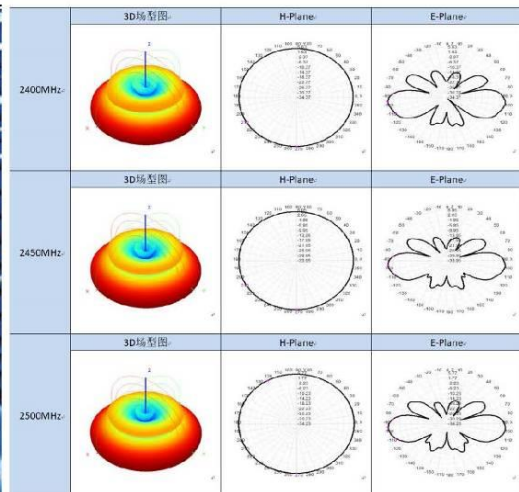
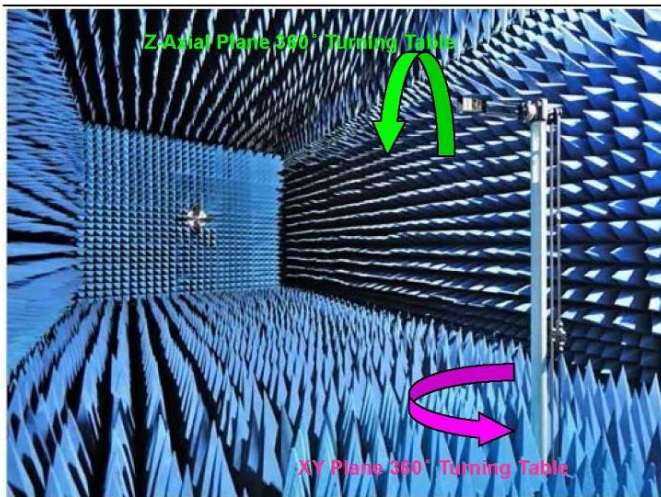
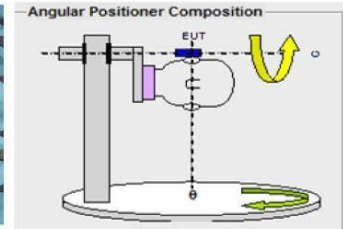
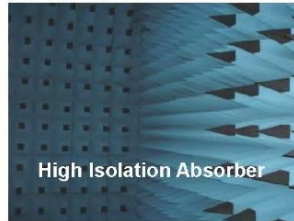
Sample Photo				
				
A. Electrical Characteristics				
Port	Port1		Port2	
Frequency	2400-2500MHz	5180-5320MHz	2400-2500MHz	5180-5320MHz
S.W.R.	<2.0	<2.5	<2.0	<2.5
Antenna Gain	12dBi	17dBi	12dBi	17dBi
Polarization	Vertical	Vertical	Vertical	Vertical
Horizontal Beamwidth	50±3°	25±3°	50±3°	25±3°
Vertical Beamwidth	50±3°	20±3°	50±3°	20±3°
F/B	>25dB	>25dB	>25dB	>25dB
Impedance	50Ohm	50Ohm	50Ohm	50Ohm
Max. Power	50W	50W	50W	50W
B. Material & Mechanical Characteristics				
Connector Type	N connector			
Dimension	290*205*40mm			
Radome material	ASA			
Mount Pole	∅30-∅75			
Weight	1.5Kg			
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 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





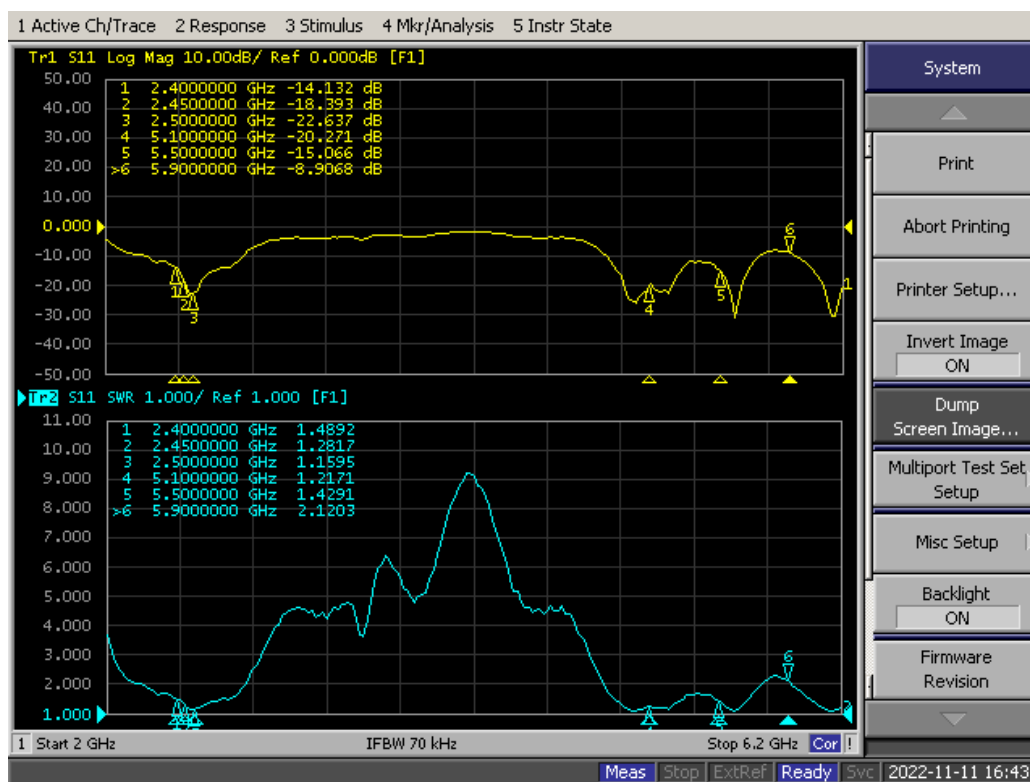
Product Number: BGS-AN2458-29020540G2

Product Name: 2.4/5.8GHz Flat Panel Antenna 12-17dBi

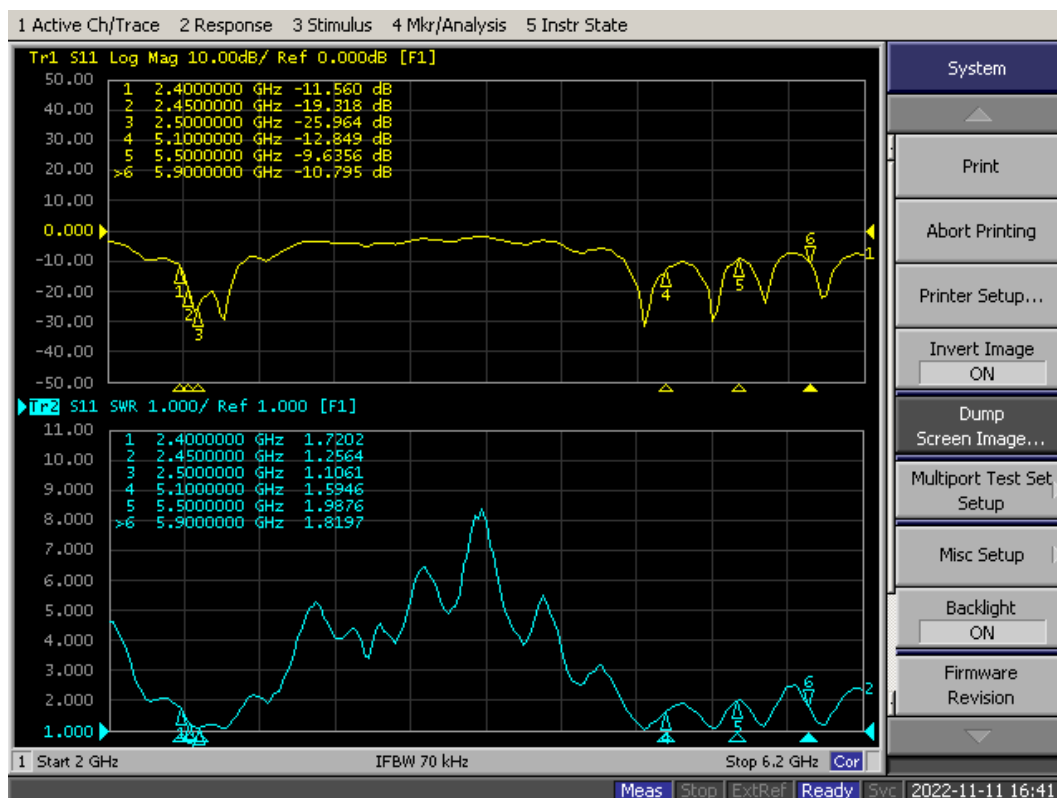
2. Antenna - S Parameter Test Data

2.1 VSWR

Port1



Port2





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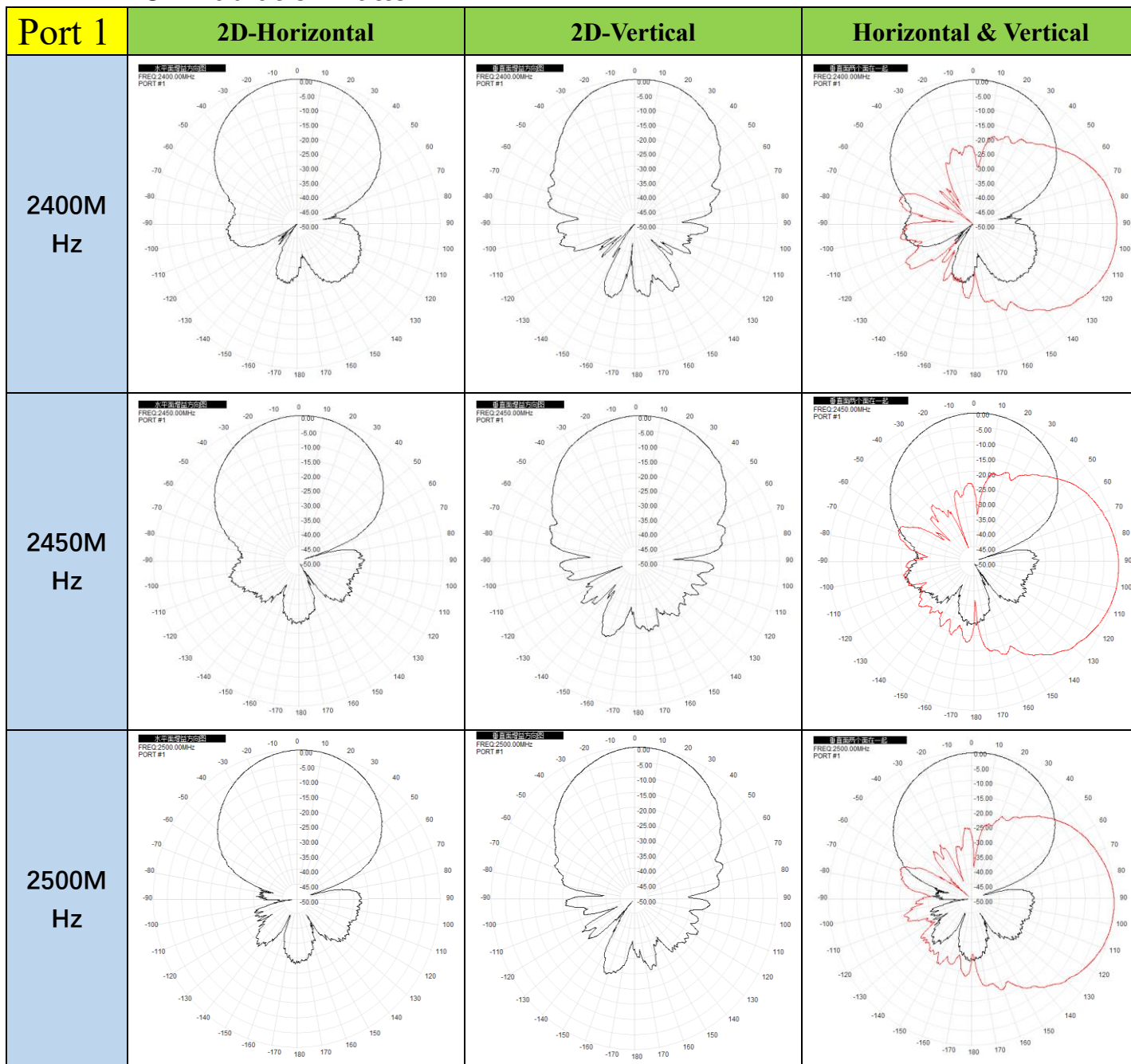
2.2 Gain:

Port 1		Port 2	
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
2400	12.084	2400	12.016
2410	12.025	2410	12.063
2420	12.094	2420	12.072
2430	12.074	2430	12.166
2440	12.053	2440	12.138
2450	12.071	2450	12.127
2460	12.082	2460	12.153
2470	12.12	2470	12.093
2480	12.134	2480	12.169
2490	12.18	2490	12.2
2500	12.287	2500	12.32
5100	17.536	5100	17.143
5150	17.618	5150	17.254
5200	17.237	5200	17.124
5250	17.204	5250	16.69
5300	17.17	5300	16.617
5350	17.345	5350	16.232
5400	17.551	5400	16.688
5450	17.12	5450	17.208
5500	16.4	5500	17.143
5550	16.534	5550	17.237
5600	16.839	5600	17.071
5650	16.99	5650	16.793
5700	17.308	5700	16.964
5750	16.9	5750	16.055
5800	16.339	5800	15.668
5850	16.095	5850	15.461
5900	16.032	5900	15.921



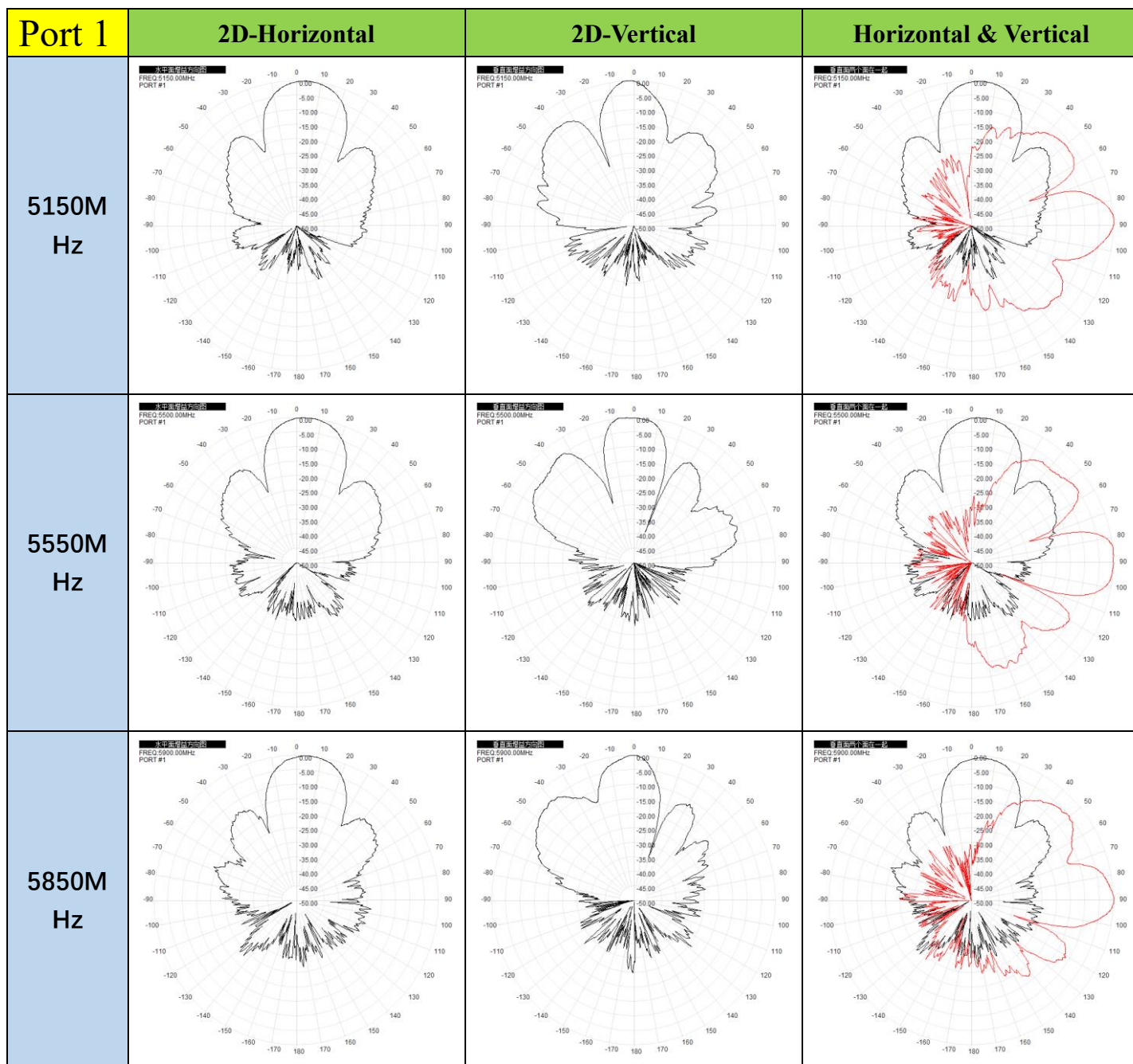
Product Number: BGS-AN2458-29020540G2
Product Name: 2.4/5.8GHZ Flat Panel Antenna 12-17dBi

2.3 Radiation Pattern



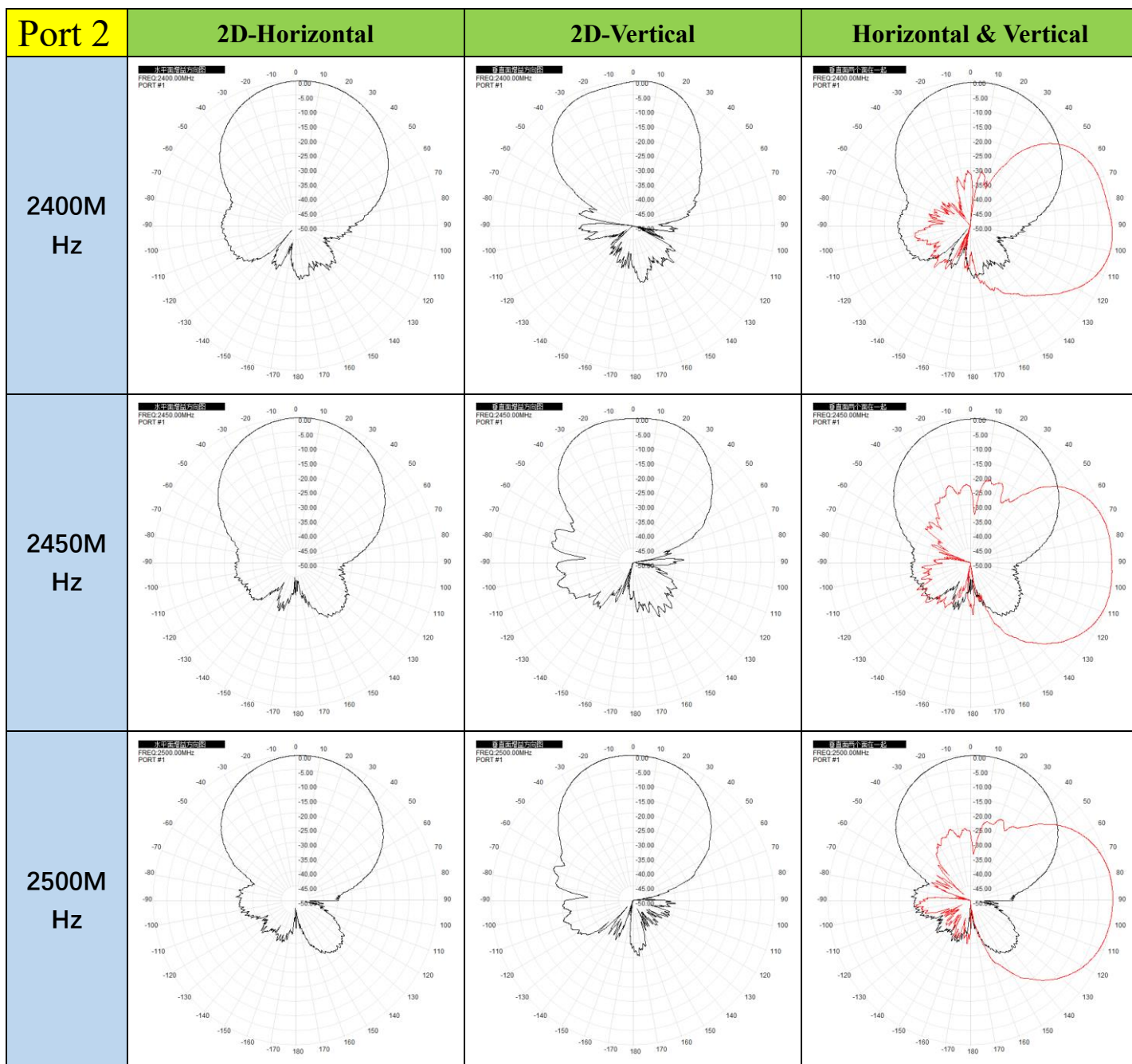


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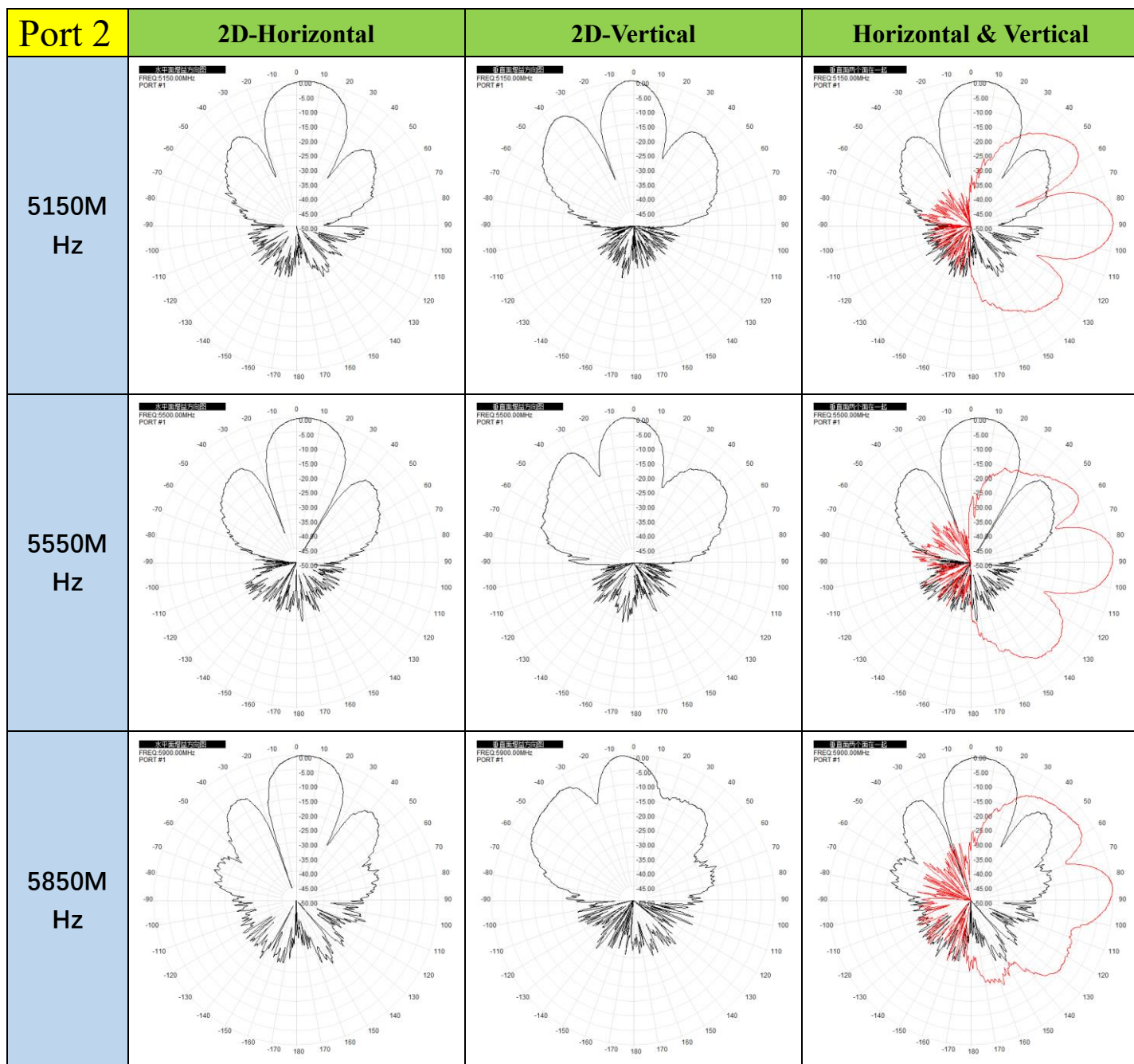


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3. Mechanical Drawing

