




Product Number: BGS-AN1524-22022025G

Product Name: 1560-1620/2400-2500/5700-5900MHz Flat Panel Antenna 14dBi

1. Specification

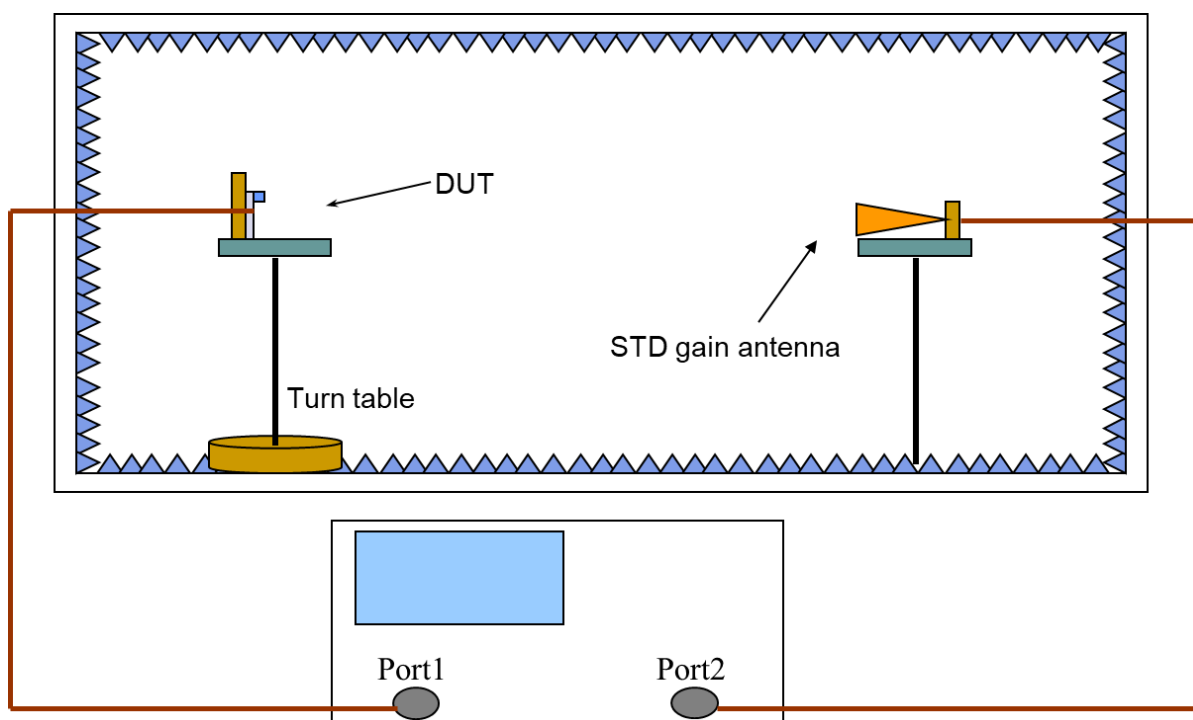
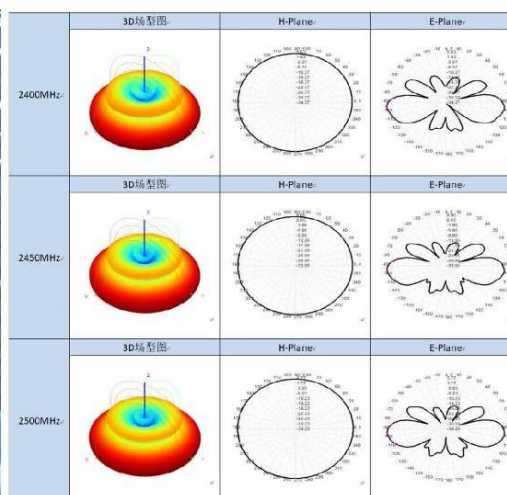
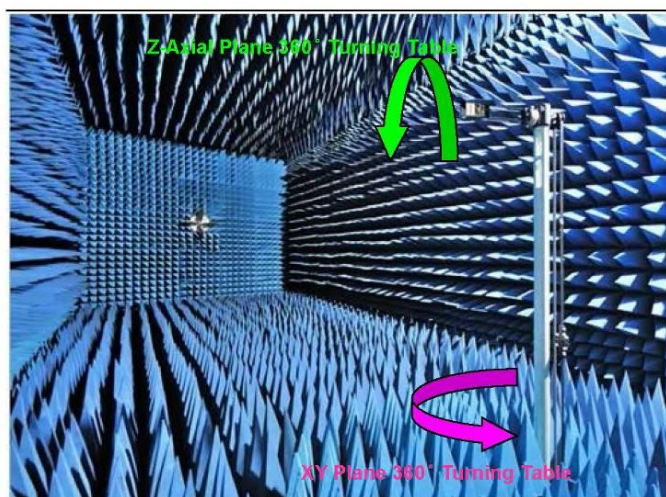
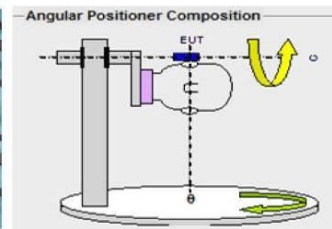
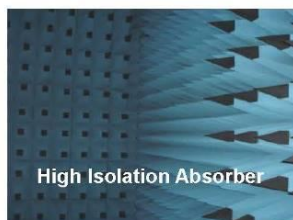
Sample Photo			
			
A. Electrical Characteristics			
Port	Port1	Port2	Port3
Frequency	1560-1620MHz	2400-2500MHz	5700-5900MHz
S.W.R.	≤ 1.6	≤ 1.6	≤ 1.6
Antenna Gain	8dBi	10dBi	15dBi
Polarization	RHCP	Vertical	Vertical
Horizontal Beamwidth	67-72°	59-61°	32-41°
Vertical Beamwidth	70-76°	42-44°	32-35°
F/B	>20dB	>23dB	>23dB
Impedance	50Ohm	50Ohm	50Ohm
Max. Power	50W	50W	50W
B. Material & Mechanical Characteristics			
Connector Type	SMA connector		
Dimension	220*220*25mm		
Radome material	ABS		
Mount Pole	∅30-∅50		
Weight	0.86Kg		
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





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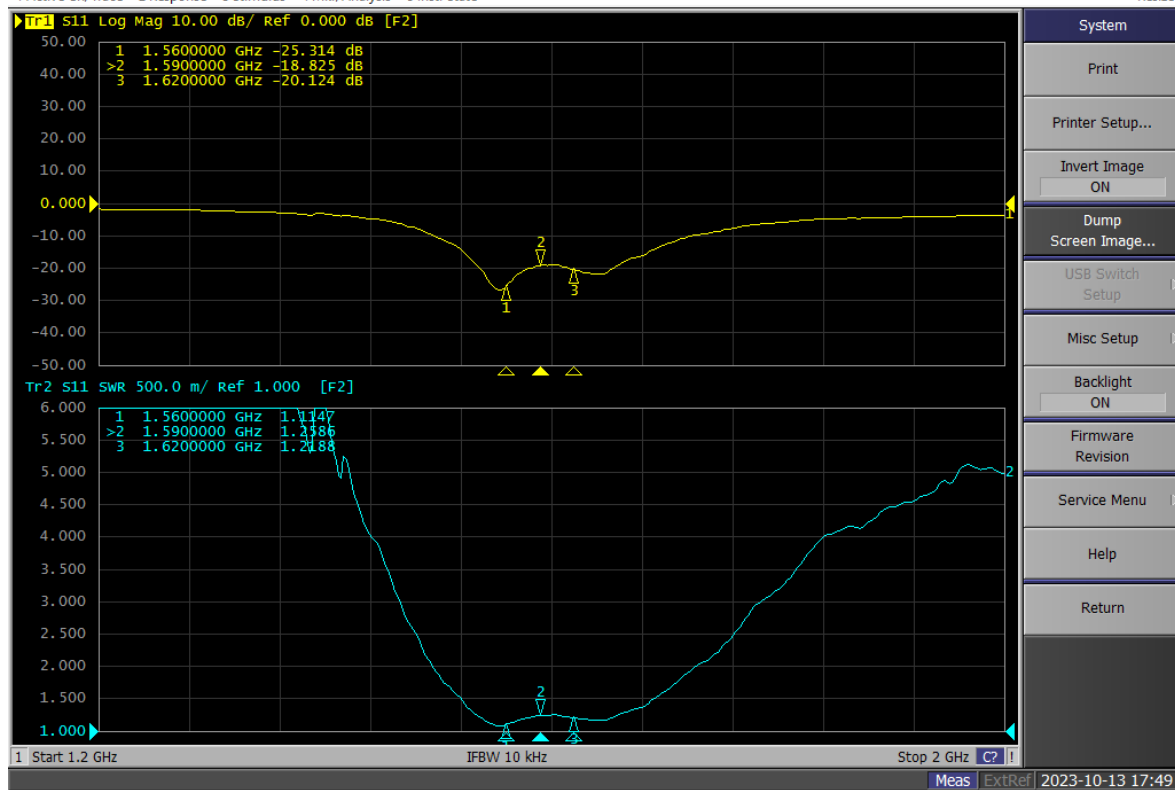
2. Antenna - S Parameter Test Data

2.1 VSWR

E5063A Network Analyzer

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

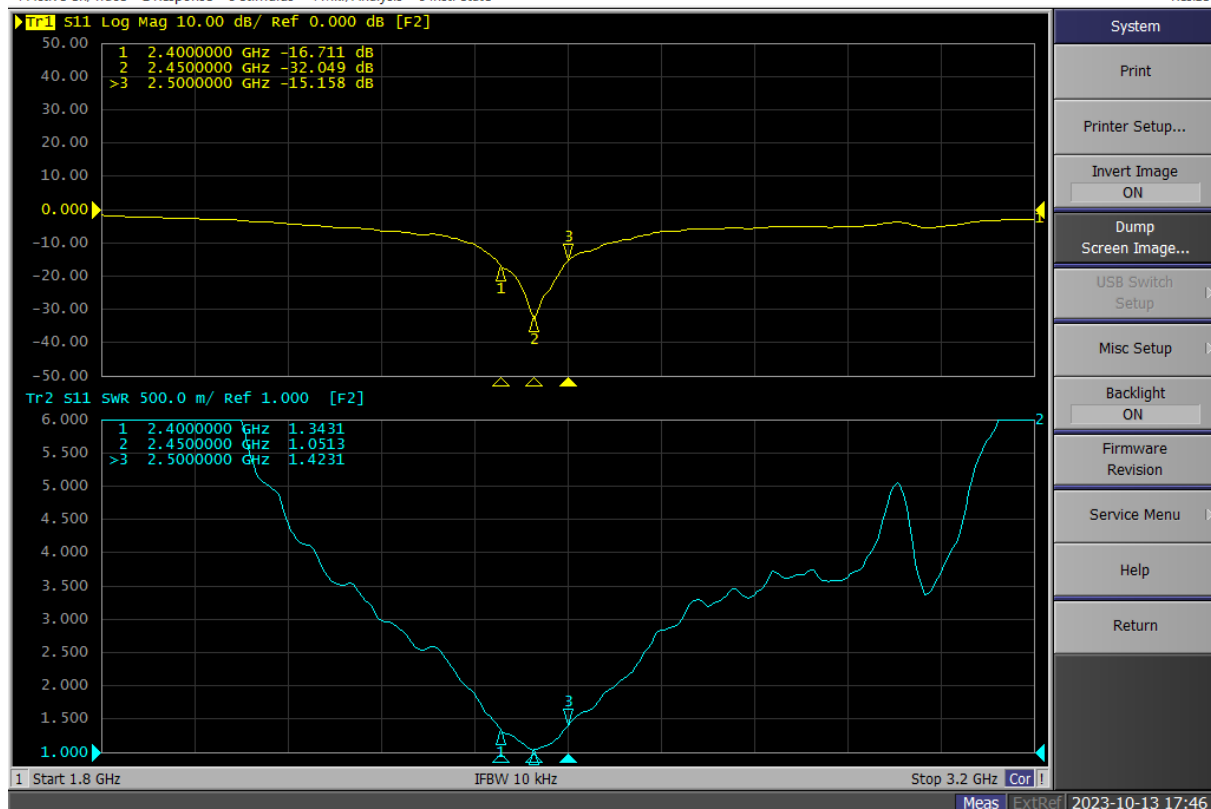
Resize



E5063A Network Analyzer

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Resize





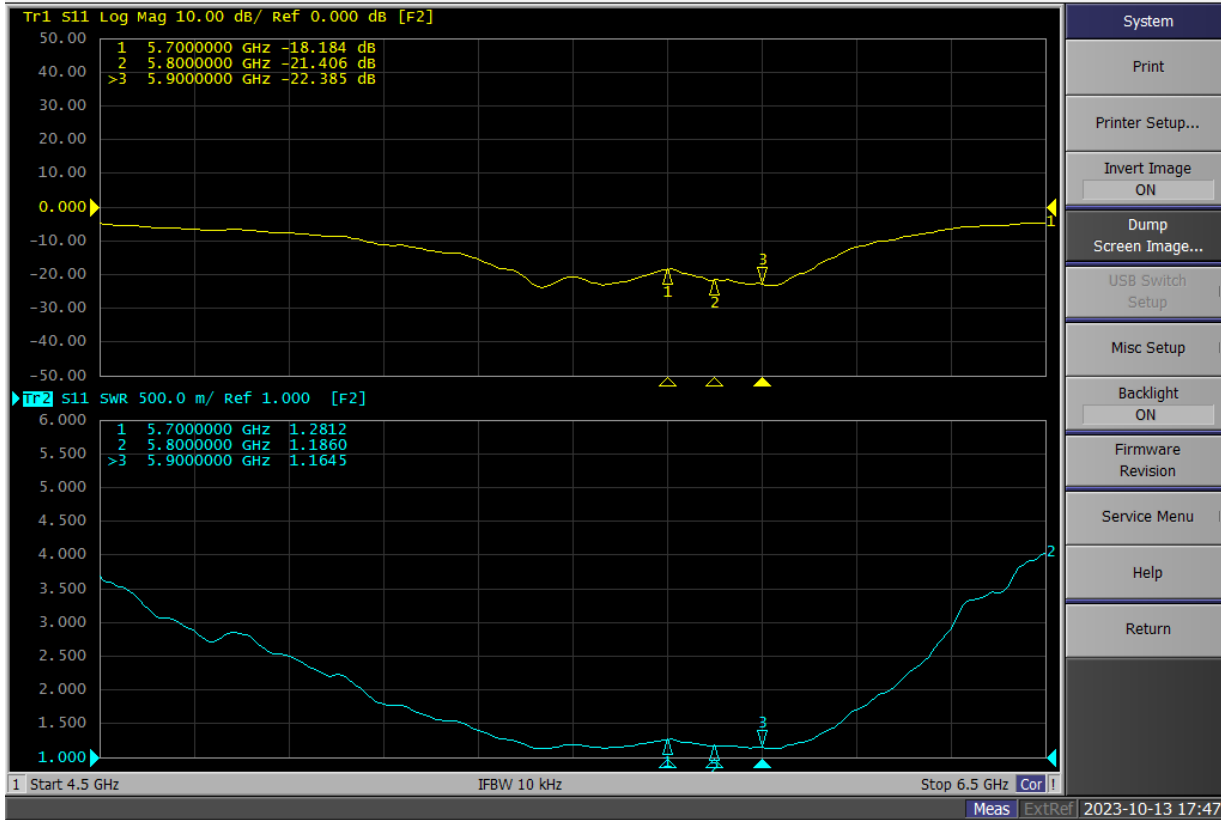
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2.2 Gain:

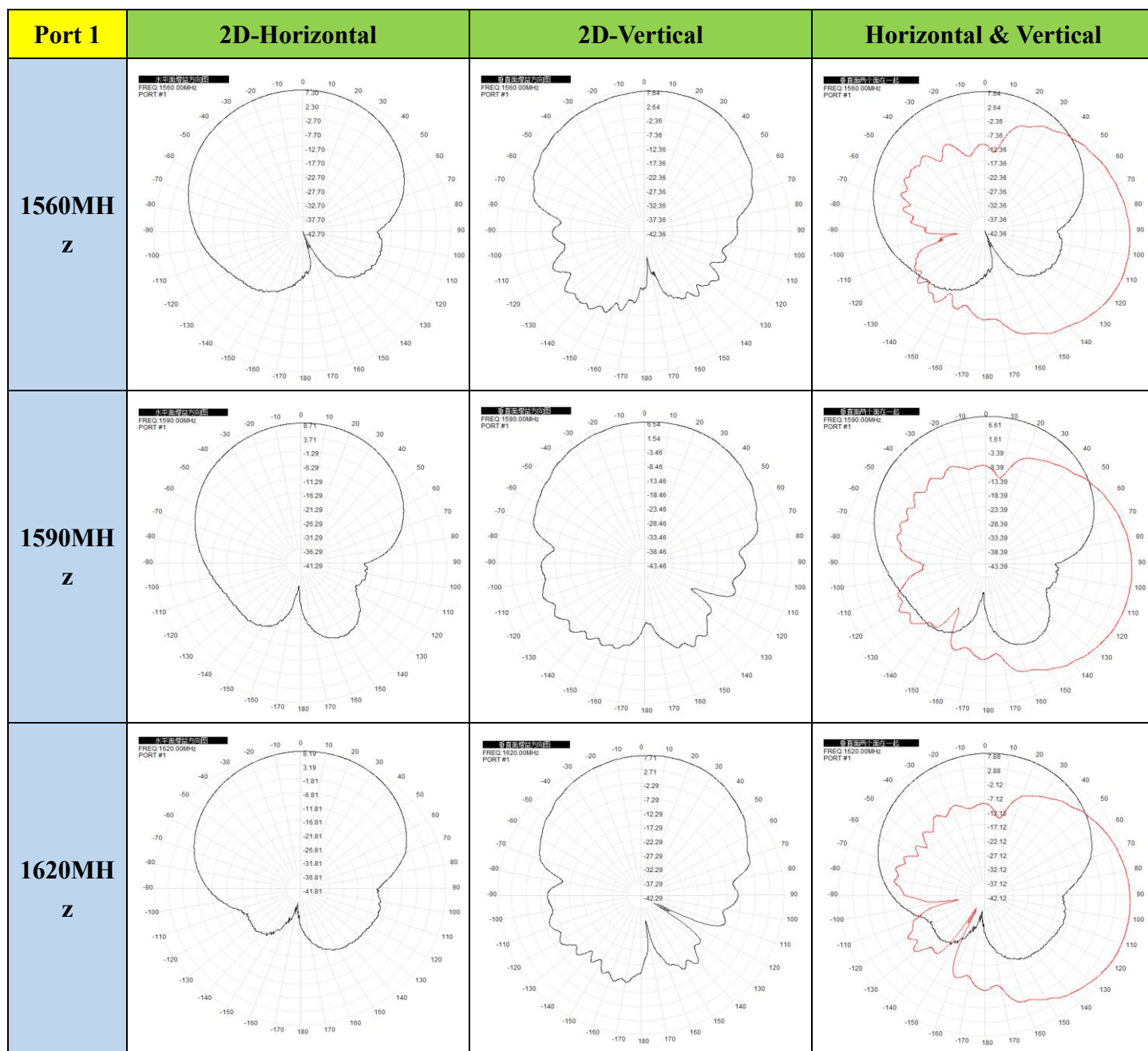
Port 1		Port 2		Port 3	
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
1560	7.6	2400	10.6	5700	14.0
1570	7.0	2410	10.6	5725	13.8
1580	8.4	2420	10.8	5750	13.9
1590	8.7	2430	10.8	5775	13.9
1600	7.3	2440	10.7	5800	14.0
1610	8.2	2450	10.8	5825	14.1
1620	8.1	2460	10.8	5850	14.4
		2470	10.8	5875	15.0
		2480	10.8	5900	15.0
		2490	10.8		
		2500	10.8		



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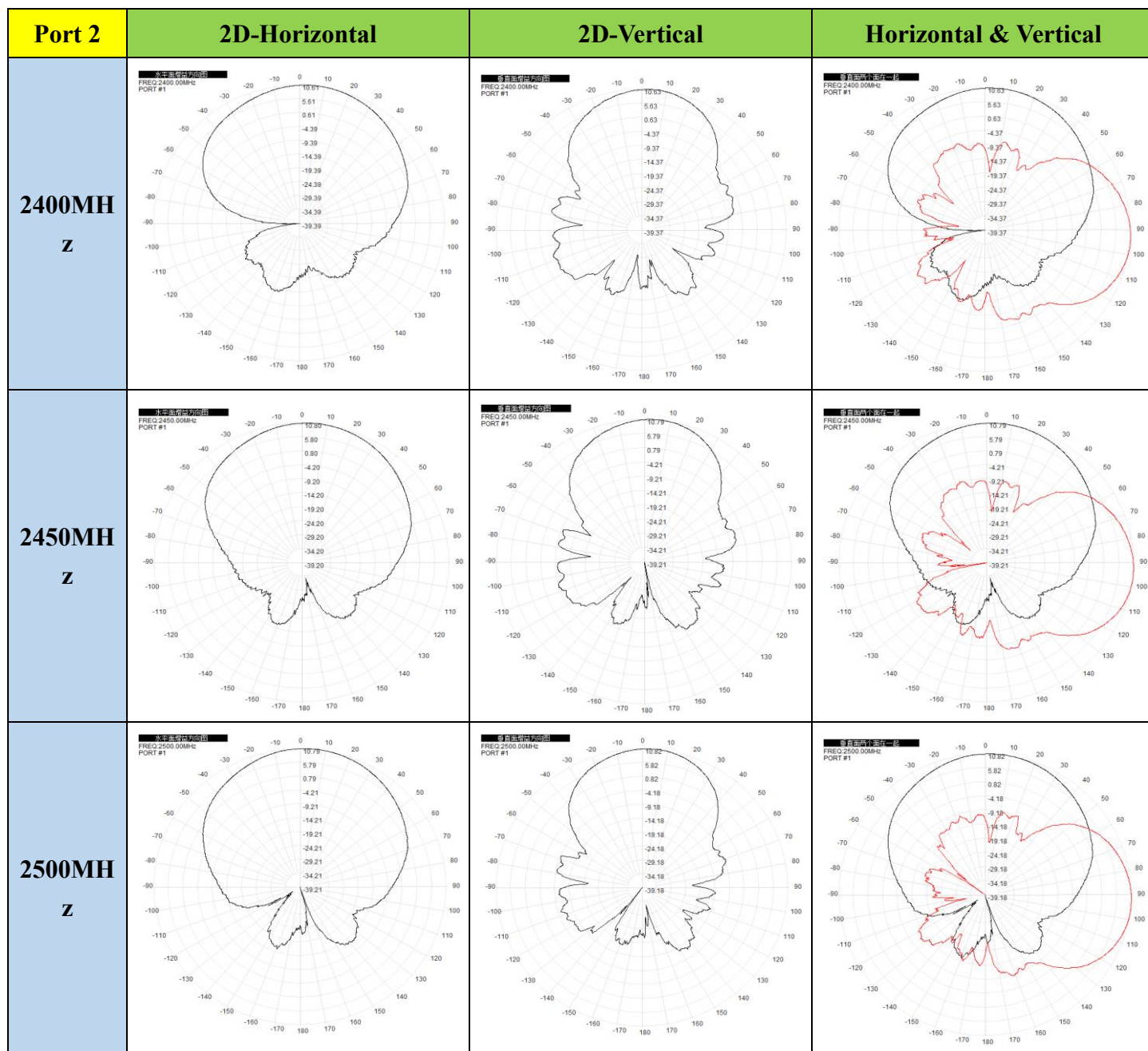
2.3 Radiation Pattern





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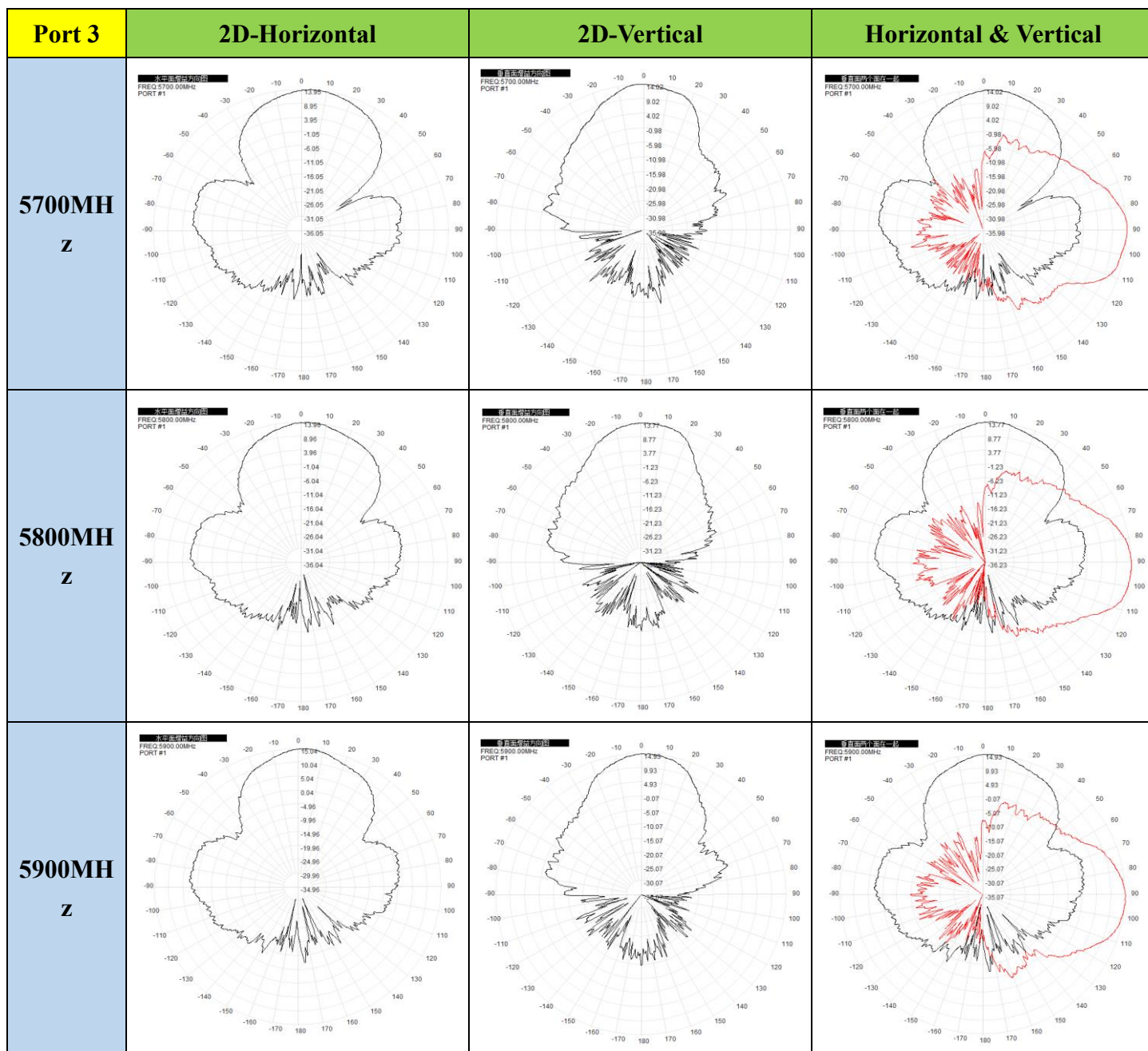
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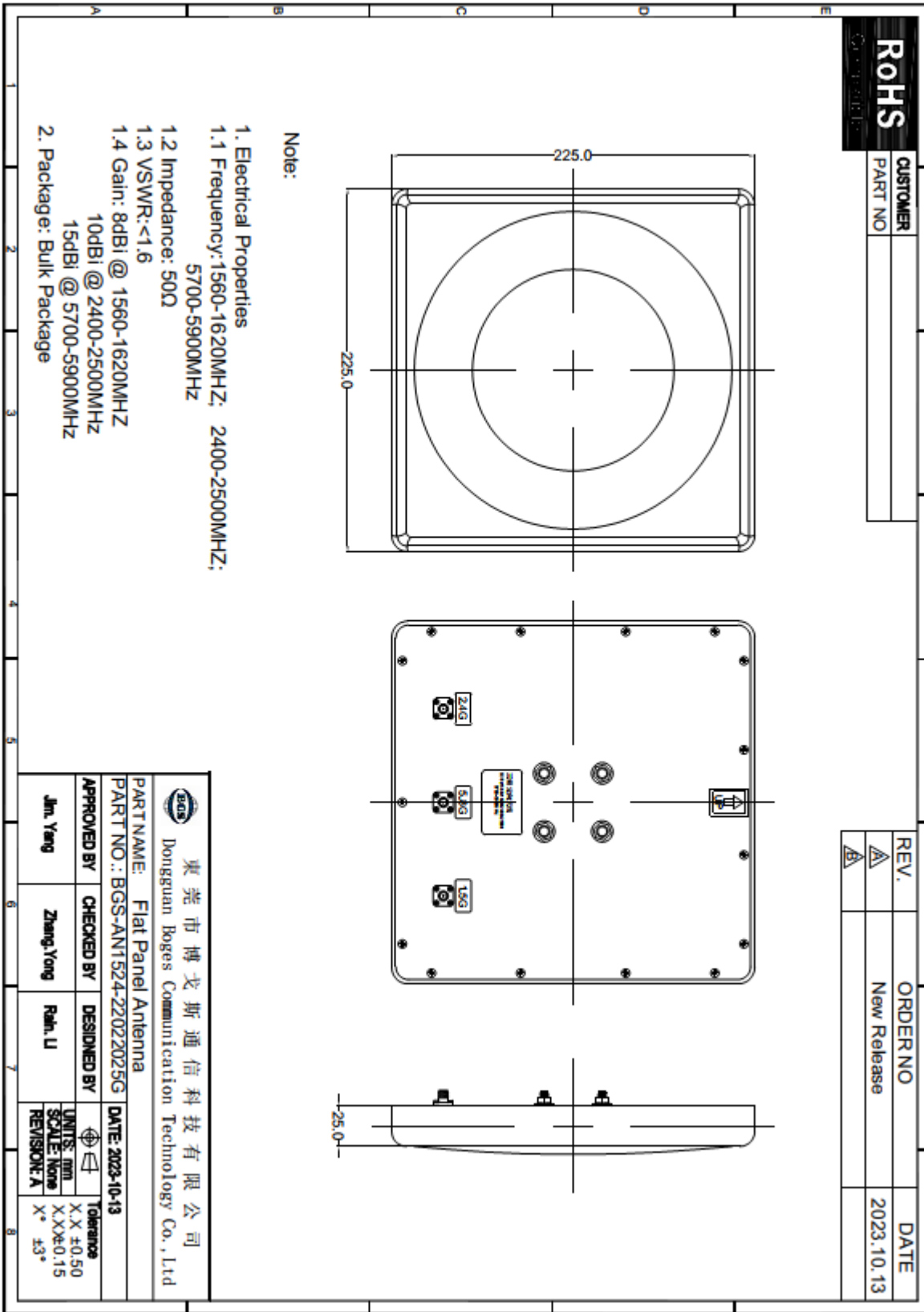




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3. Mechanical Drawing





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