


1. Specification

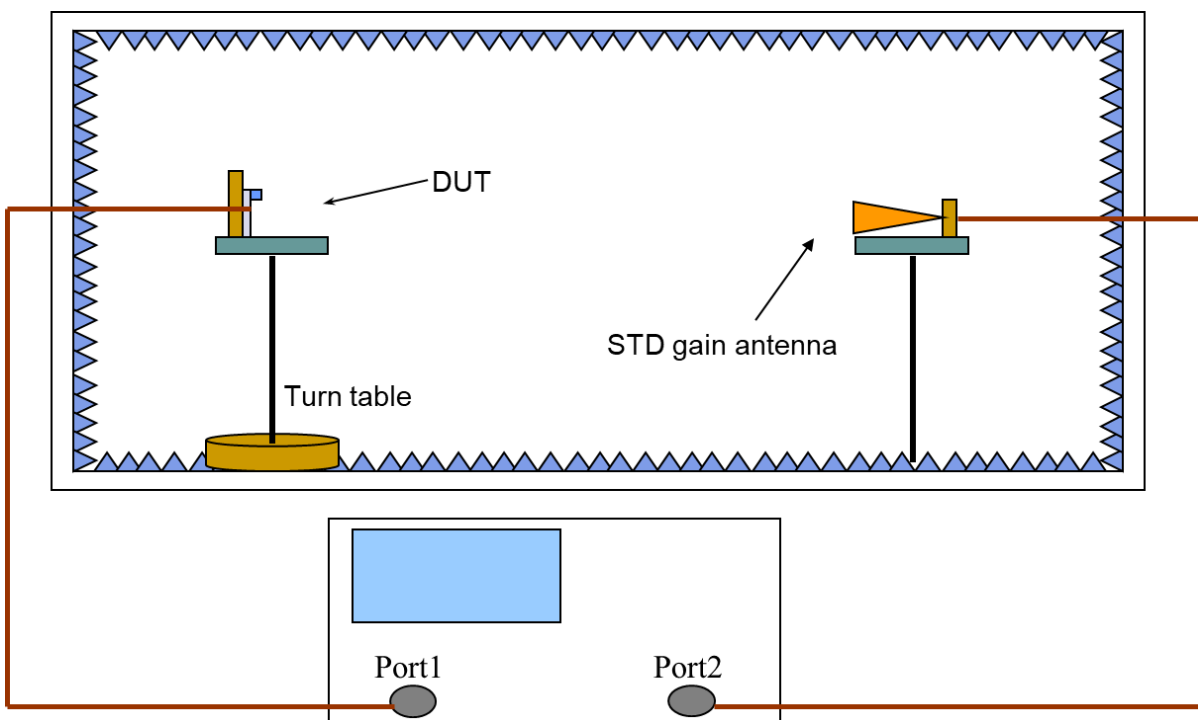
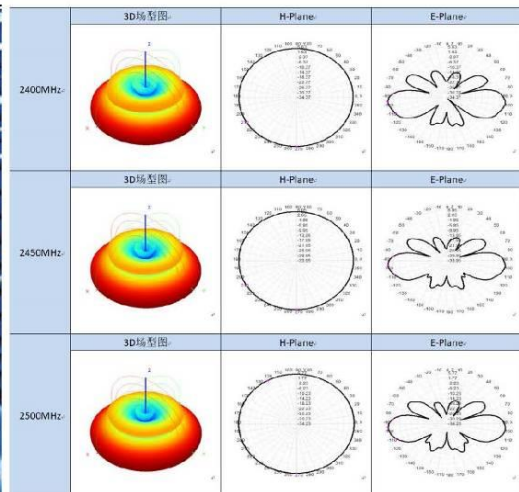
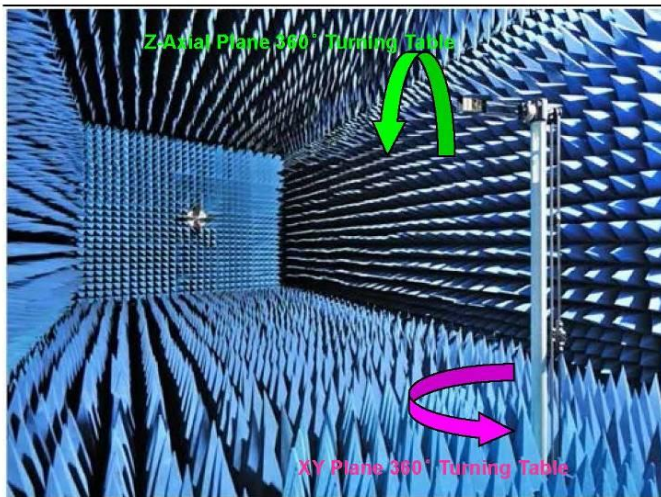
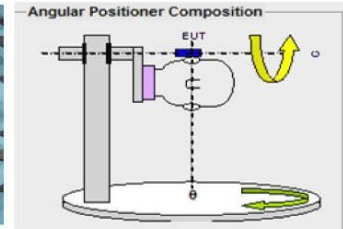
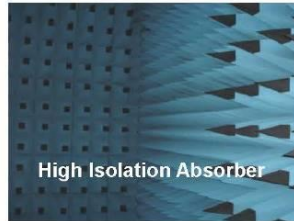
Sample Photo	
	
A. Electrical Characteristics	
Frequency	600-6000MHz
S.W.R.	<2.0
Efficiency	≈70%
Antenna Gain	3-5dBi
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	26-80°
Impedance	50 Ohm
Max Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 60*350mm
Weight	0.54Kg
Radome material	Fiberglass
C. Environmental	
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 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

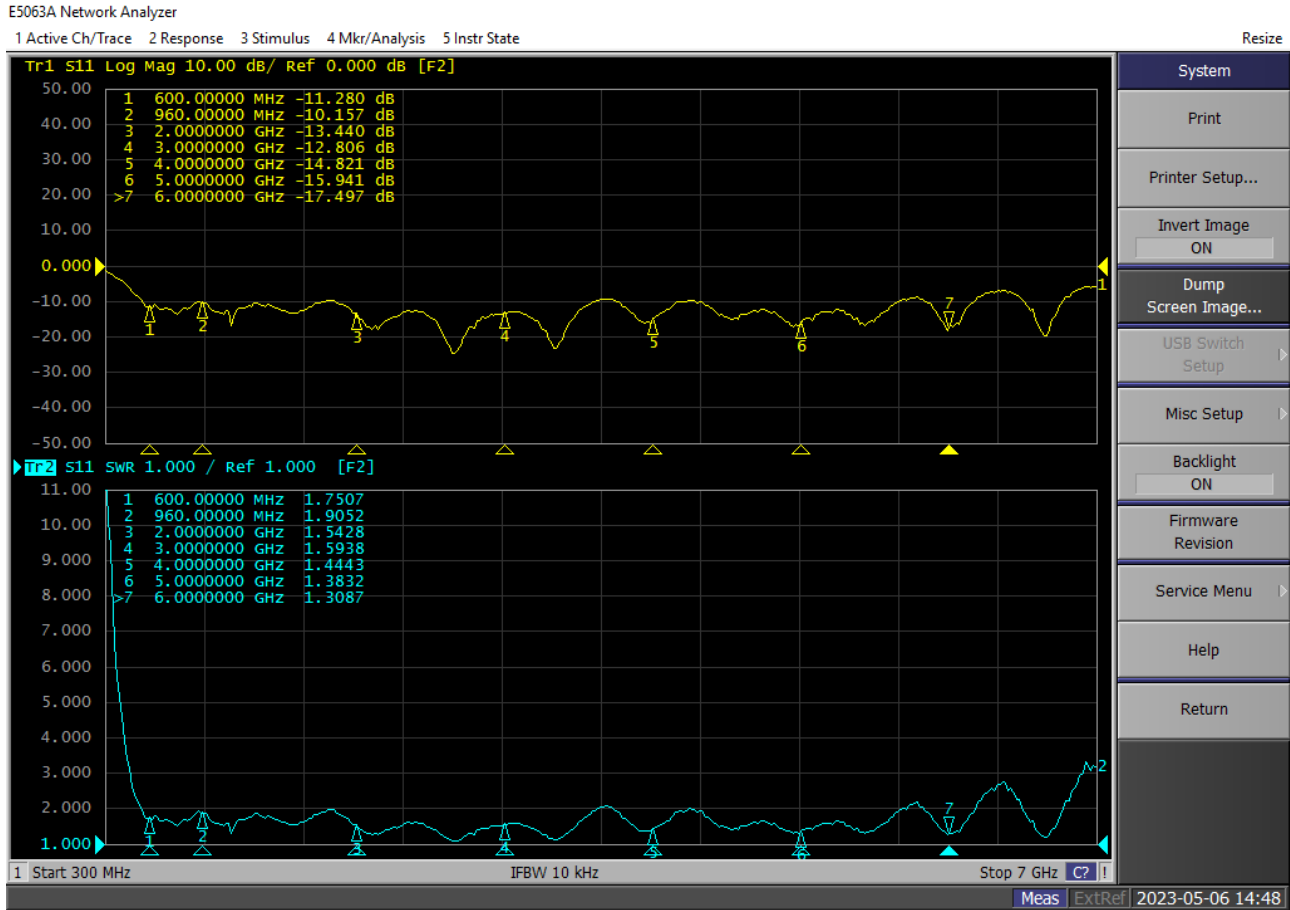




Product Number: BGS-AN6000-60350W
Product Name: 600-6000MHz Fiberglass Antenna

2. Antenna - S Parameter Test Data

2.1. VSWR





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2.2. Total Efficiency & Gain:

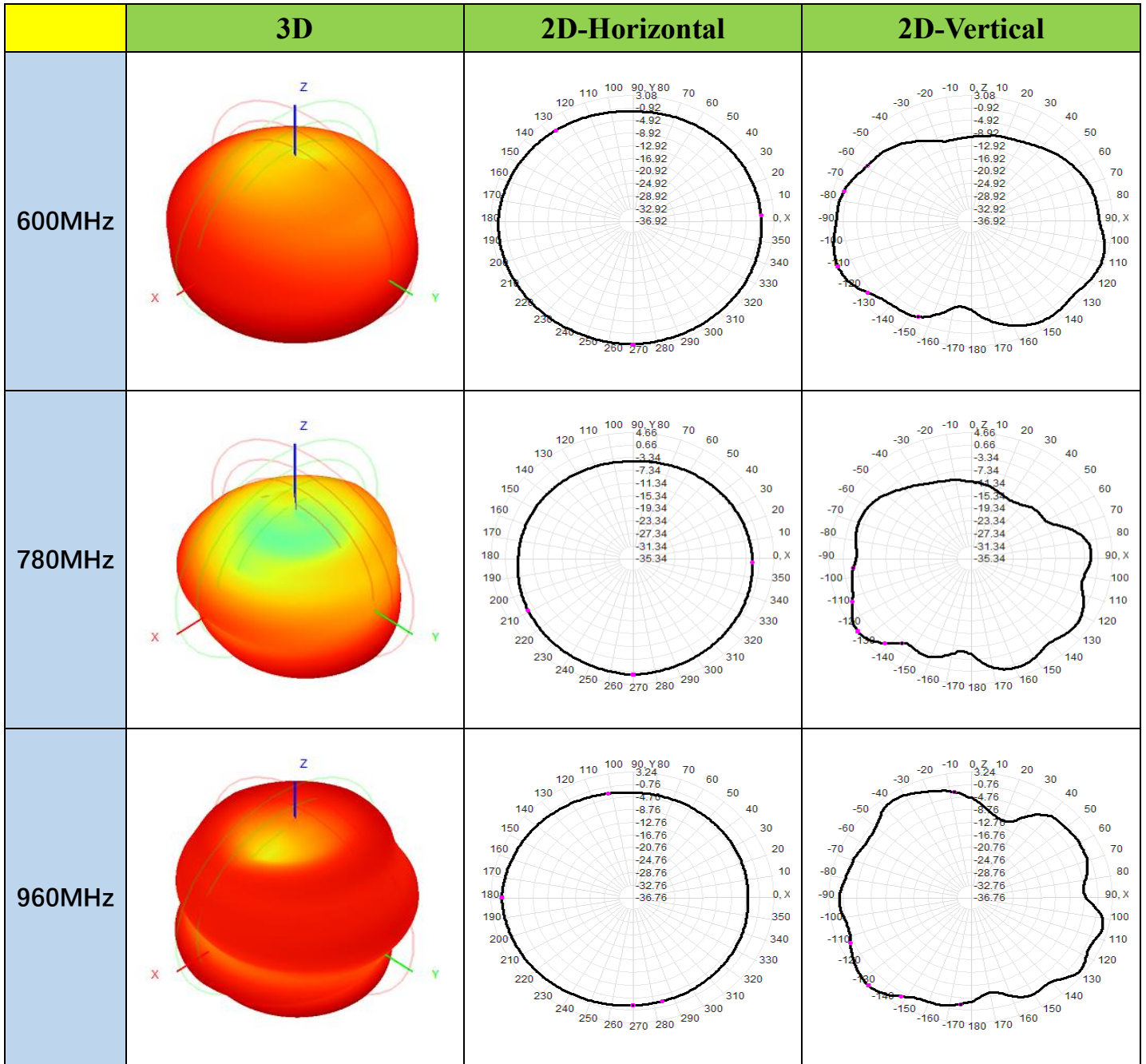
Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
600.0	3.1	63.5	2900.0	3.2	74.7
630.0	3.0	68.5	3000.0	3.3	74.2
660.0	2.9	66.7	3100.0	3.1	68.8
690.0	3.6	71.4	3200.0	3.1	70.2
720.0	3.1	73.7	3300.0	3.1	69.6
750.0	3.8	71.6	3400.0	3.1	73.6
780.0	4.7	75.5	3500.0	3.2	72.7
810.0	5.0	75.6	3600.0	3.4	72.3
840.0	4.4	75.7	3700.0	3.4	67.6
870.0	3.8	77.5	3800.0	3.2	60.7
900.0	3.0	82.4	3900.0	3.1	67.1
930.0	3.2	82.6	4000.0	3.3	70.9
960.0	3.2	89.3	4100.0	3.1	68.8
1000.0	3.7	82.8	4200.0	3.0	67.3
1100.0	3.0	85.6	4300.0	3.0	64.9
1200.0	4.2	77.1	4400.0	3.1	61.1
1300.0	3.0	73.5	4500.0	3.2	62.1
1400.0	3.3	77.8	4600.0	3.1	67.6
1500.0	3.0	72.4	4700.0	3.0	65.3
1600.0	3.1	79.2	4800.0	3.1	67.7
1700.0	3.3	74.6	4900.0	3.2	55.6
1800.0	3.0	70.7	5000.0	3.2	58.8
1900.0	3.1	76.7	5100.0	3.2	60.7
2000.0	3.4	76.6	5200.0	3.5	64.8
2100.0	3.1	78.1	5300.0	4.2	69.8
2200.0	3.2	80.2	5400.0	3.8	62.2
2300.0	3.0	76.1	5500.0	4.2	62.3
2400.0	3.1	75.8	5600.0	4.1	61.1
2500.0	3.2	73.7	5700.0	4.6	64.0
2600.0	3.3	70.6	5800.0	4.9	71.9
2700.0	3.0	72.1	5900.0	5.1	71.8



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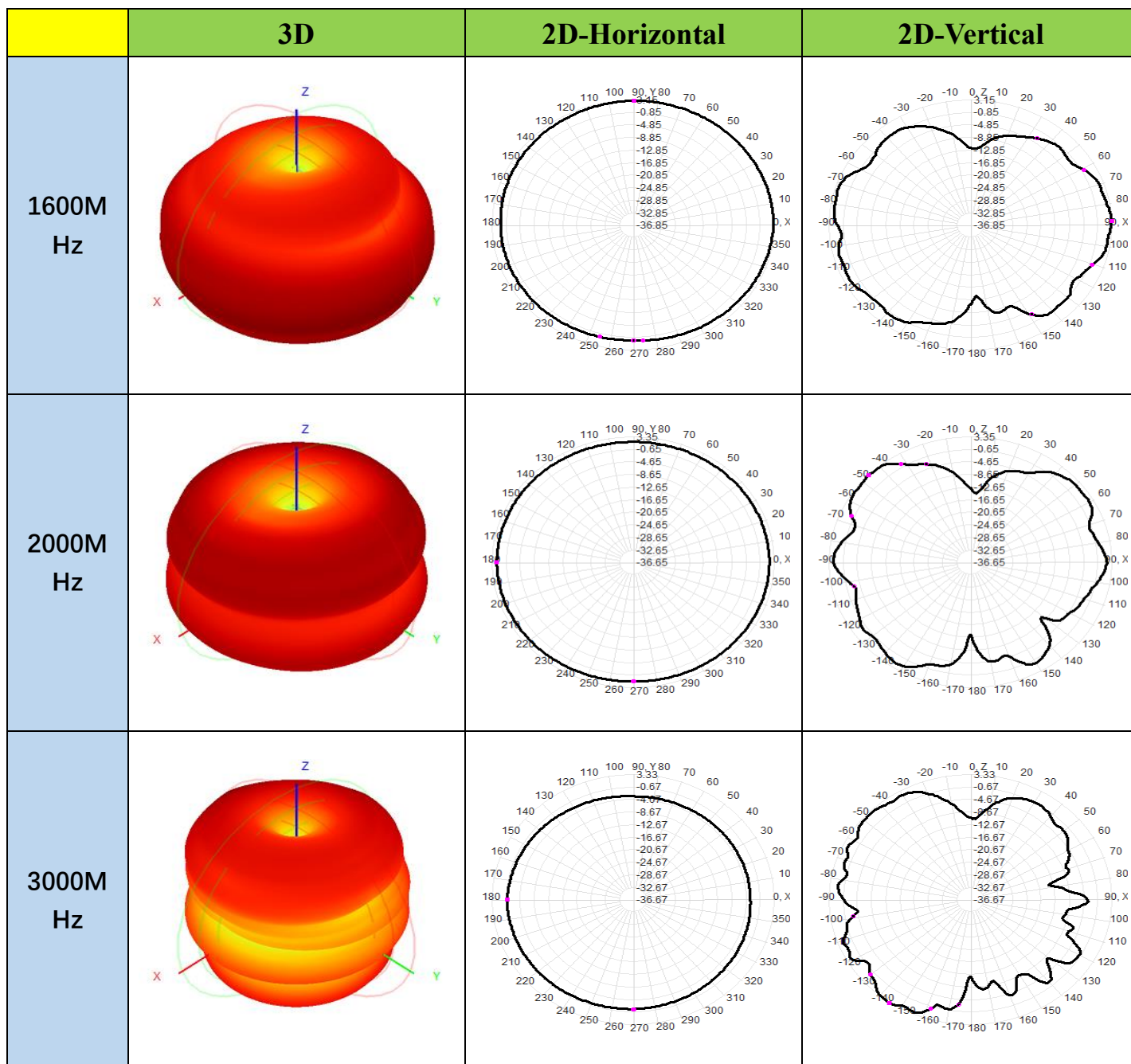
2800.0	3.1	74.2		6000.0	5.4	73.2
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2.3 Radiation Pattern



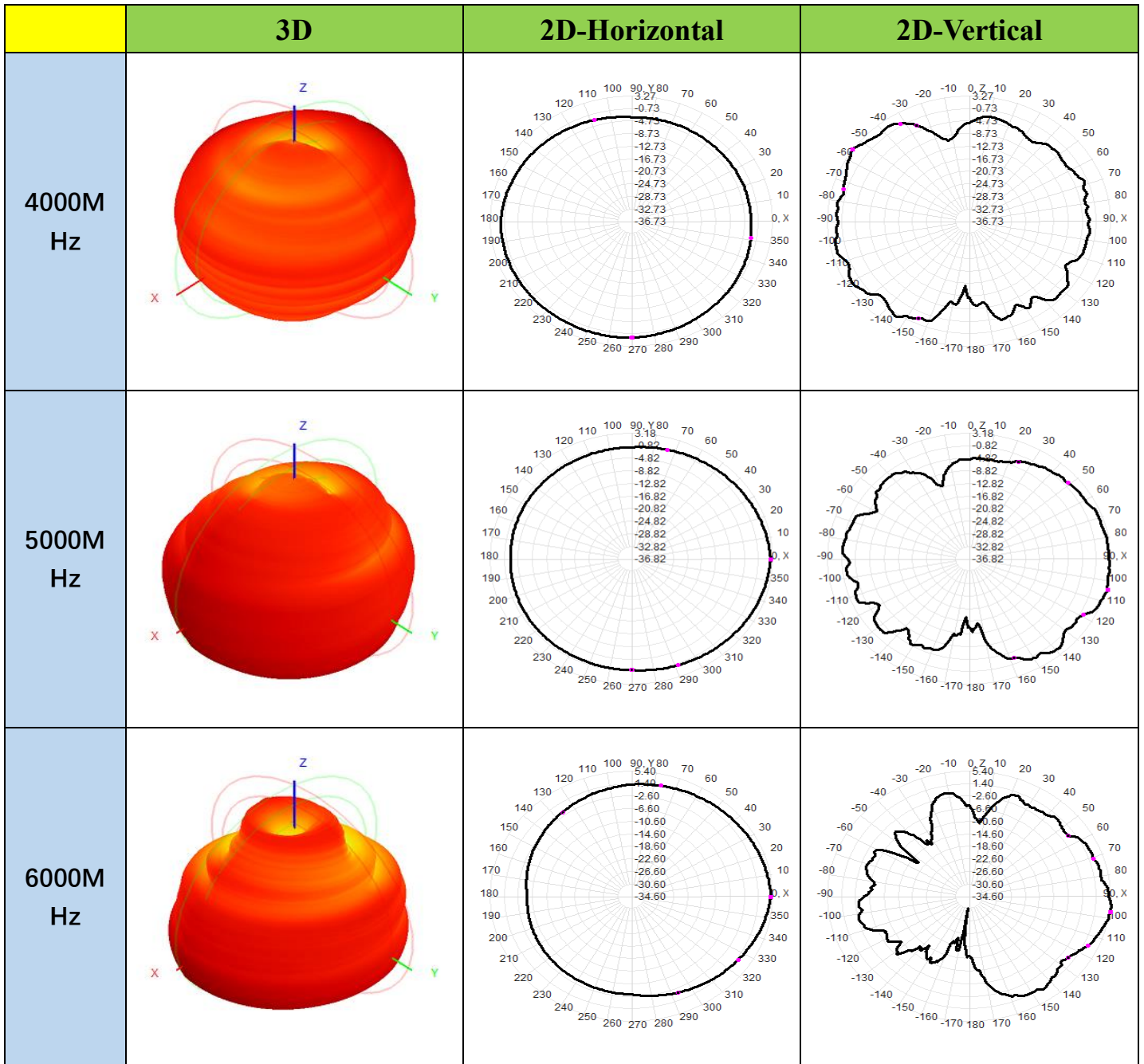


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3. Mechanical Drawing

