

1. Specification

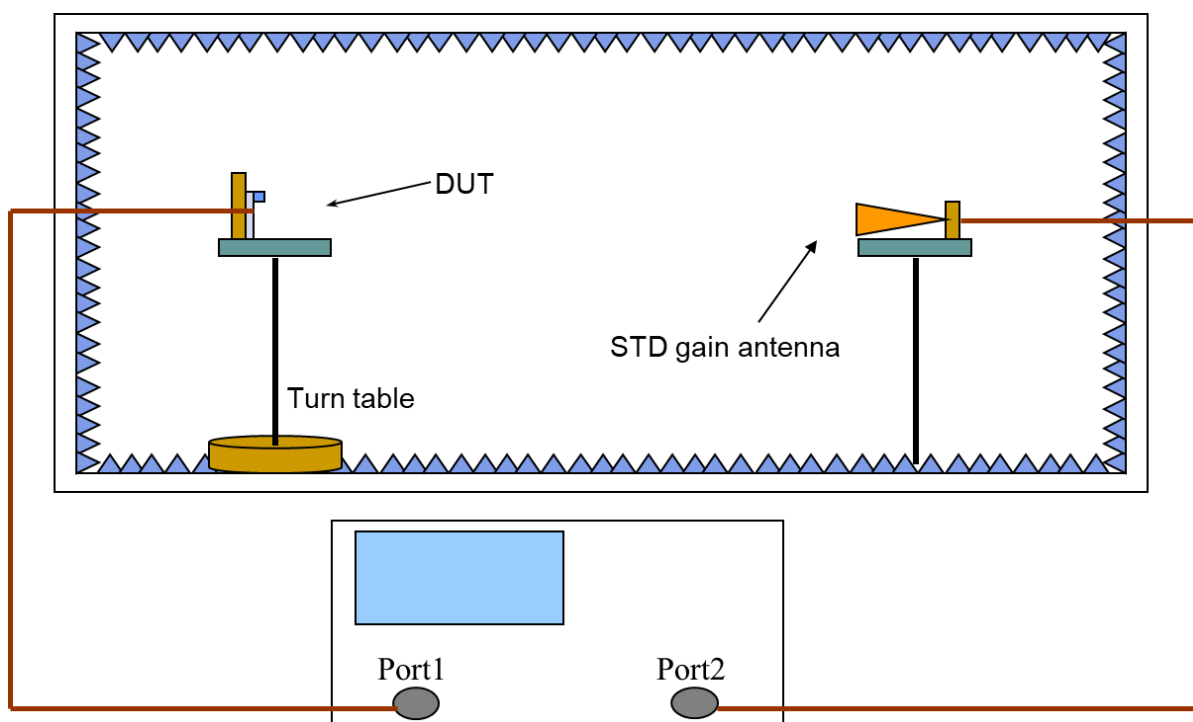
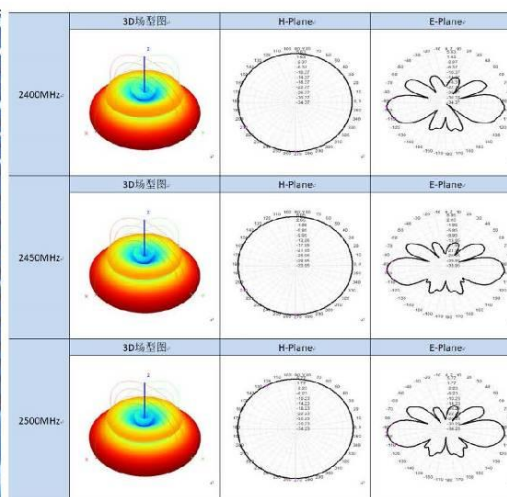
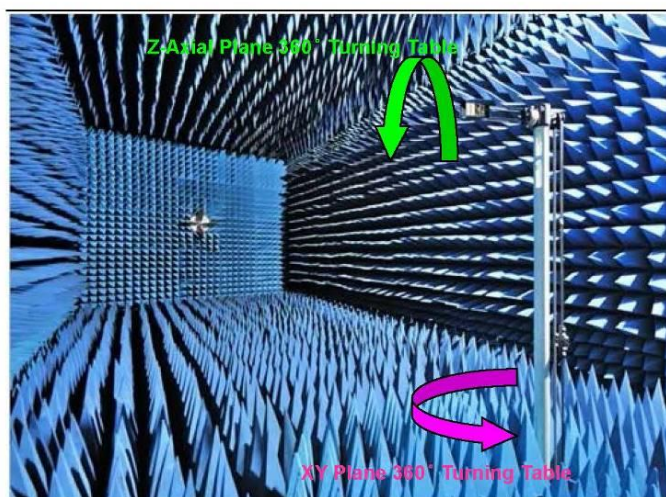
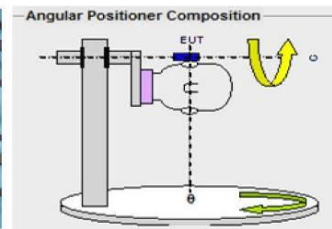
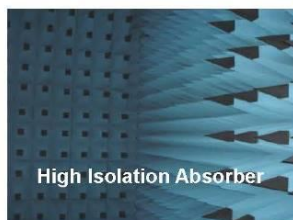
Sample Photo	
	
A. Electrical Characteristics	
Frequency	1561.098MHz; 1575.42MHz
VSWR	<1.5
Peak Gain	3dBi
Impedance	50Ohm
Efficiency	≈79%
Polarization	Linear
Horizontal Beamwidth	360°
Vertical Beamwidth	39-41°
Power	5W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 16x130mm
Radome material	Fiberglass
Weight	0.070Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 85 °C
Storage Temperature	- 40 °C ~ + 85 °C

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

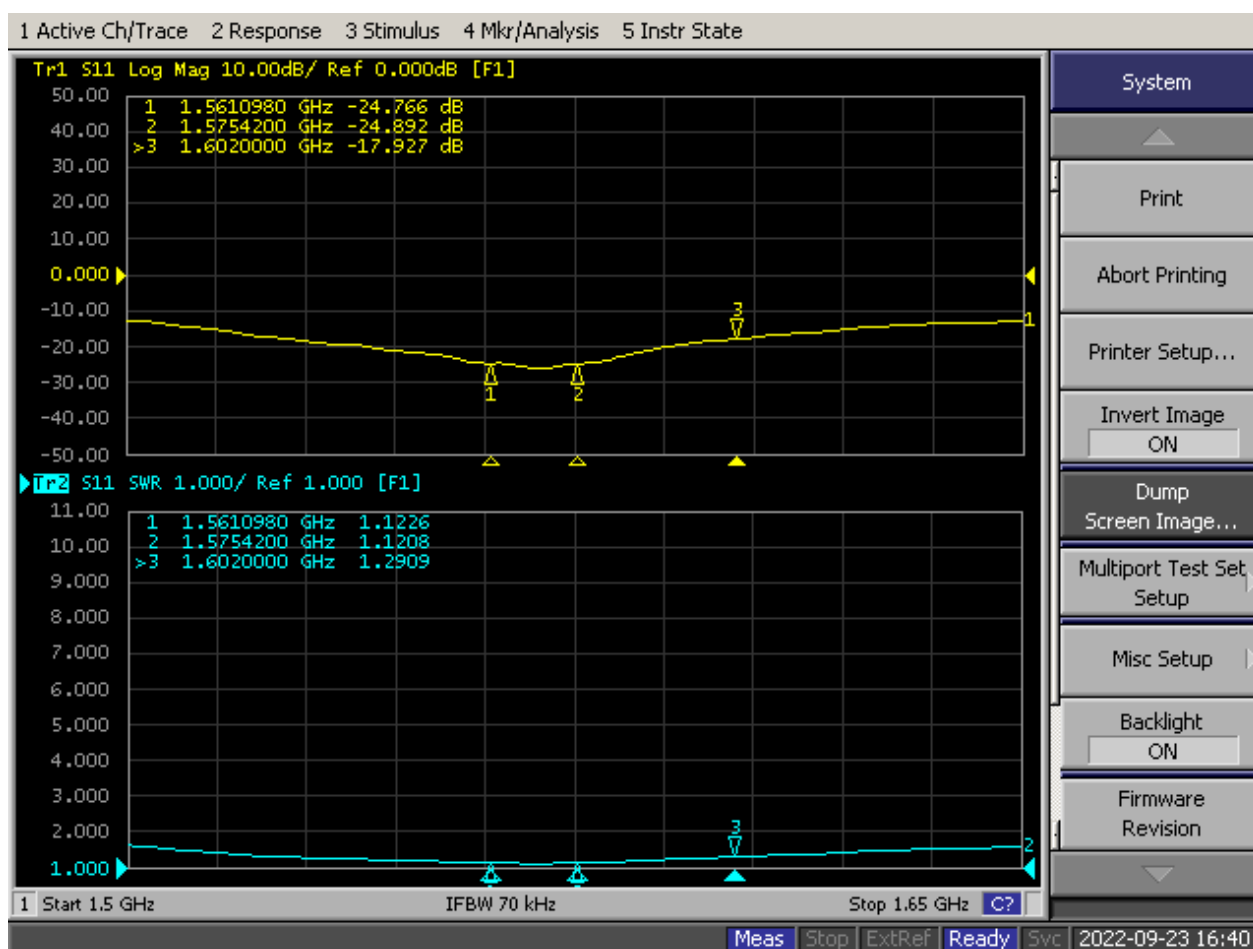




Product Number: BGS-GPS1575-16130G
Product Name: GPS Passive Antenna

2. Antenna - S Parameter Test Data

2.1 VSWR





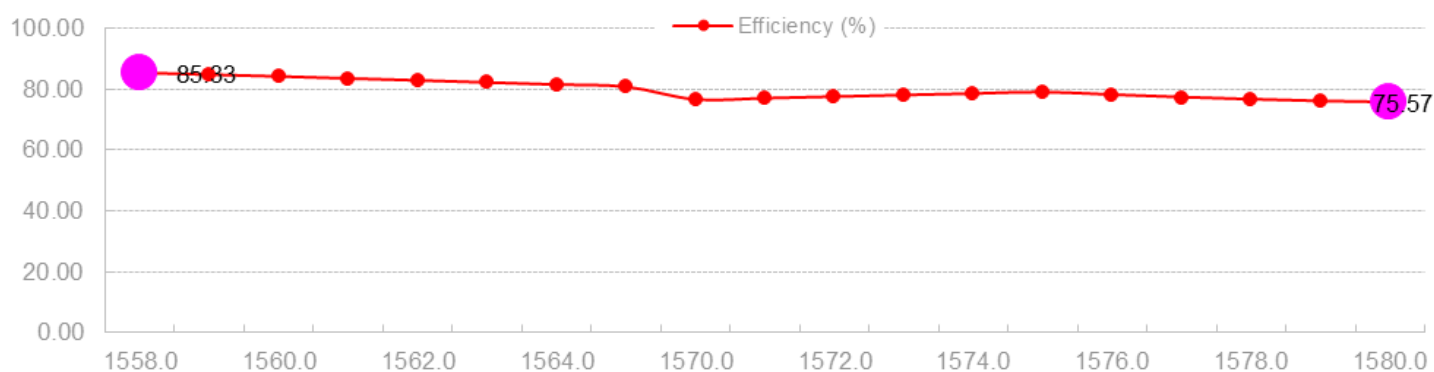
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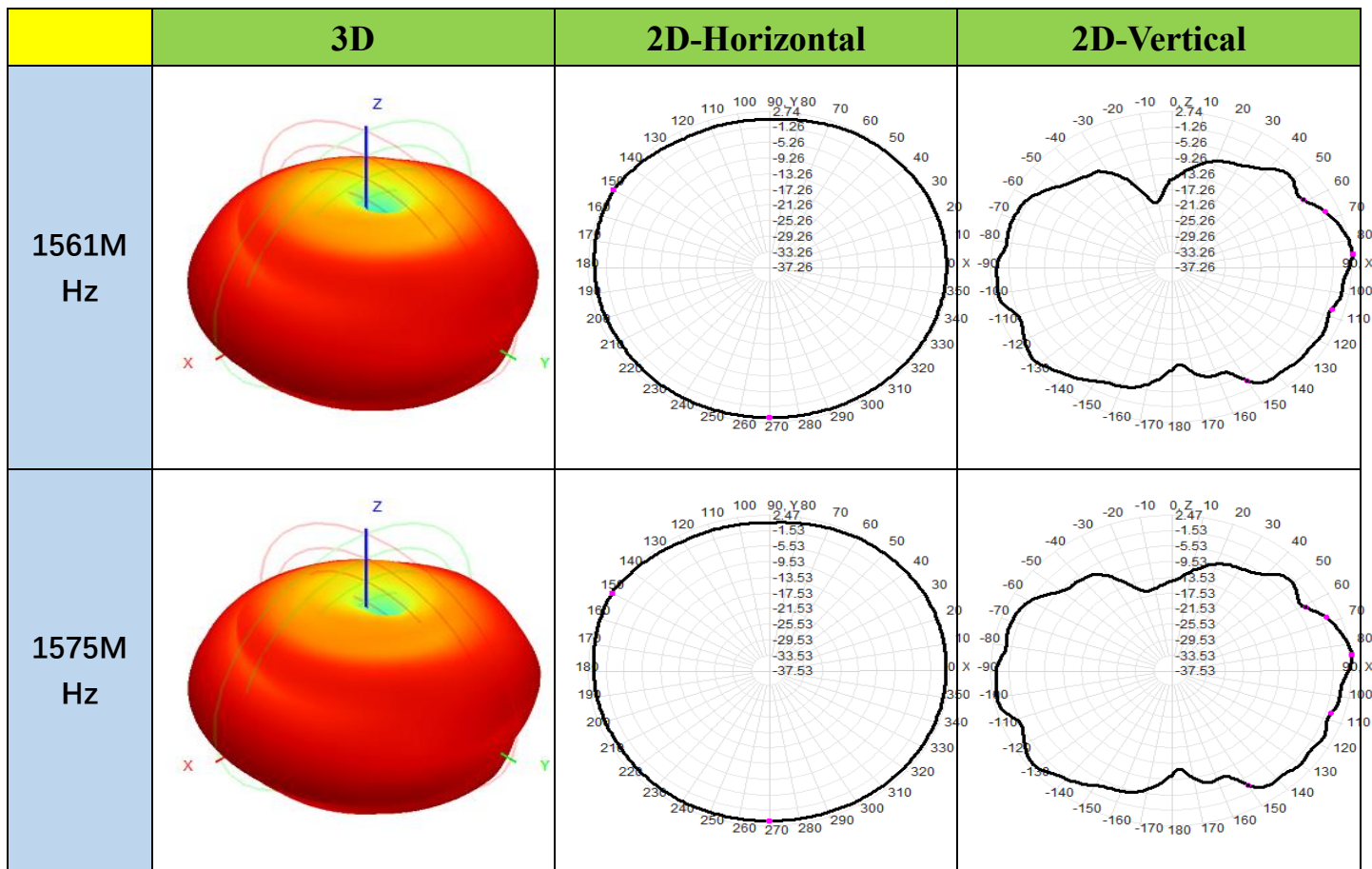
2.2 Total Efficiency & Gain:

Frequency(MHz)	1558.0	1559.0	1560.0	1561.0	1562.0	1563.0	1564.0	1565.0
Gain (dBi)	2.84	2.85	2.85	2.84	2.83	2.82	2.79	2.75
Efficiency (%)	85.33	84.74	84.12	83.46	82.80	82.12	81.41	80.67

Frequency(MHz)	1570.0	1571.0	1572.0	1573.0	1574.0	1575.0	1576.0	1577.0	1578.0	1579.0	1580.0
Gain (dBi)	2.50	2.50	2.51	2.52	2.53	2.54	2.47	2.44	2.41	2.39	2.39
Efficiency (%)	76.45	76.88	77.38	77.92	78.43	78.94	78.07	77.24	76.52	75.95	75.57



2.3 Radiation Pattern





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3. Mechanical Drawing

