



Product Number: BGS-GPS1575-16100B
Product Name: GNSS Active antenna 20dBi

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	1559-1606MHz
VSWR	<2.0
Peak Gain	0dBi
Impedance	50Ohm
Polarization	RHCP
B. LNA and Filter Electrical Properties	
Frequency	1559-1606MHz
VSWR	<2.0
LNA Gain	20dBi
Impedance	50Ohm
Polarization	RHCP
10dB Bandwidth	±5MHz
Noise Figure	≤1.5dB
In-Band Flatness (dB)	±1dB
Operation Voltage	3-5 V DC
Operation Current	≤5mA
C. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	Φ 16x100mm
Radome material	Fiberglass
Waterproof	IP67



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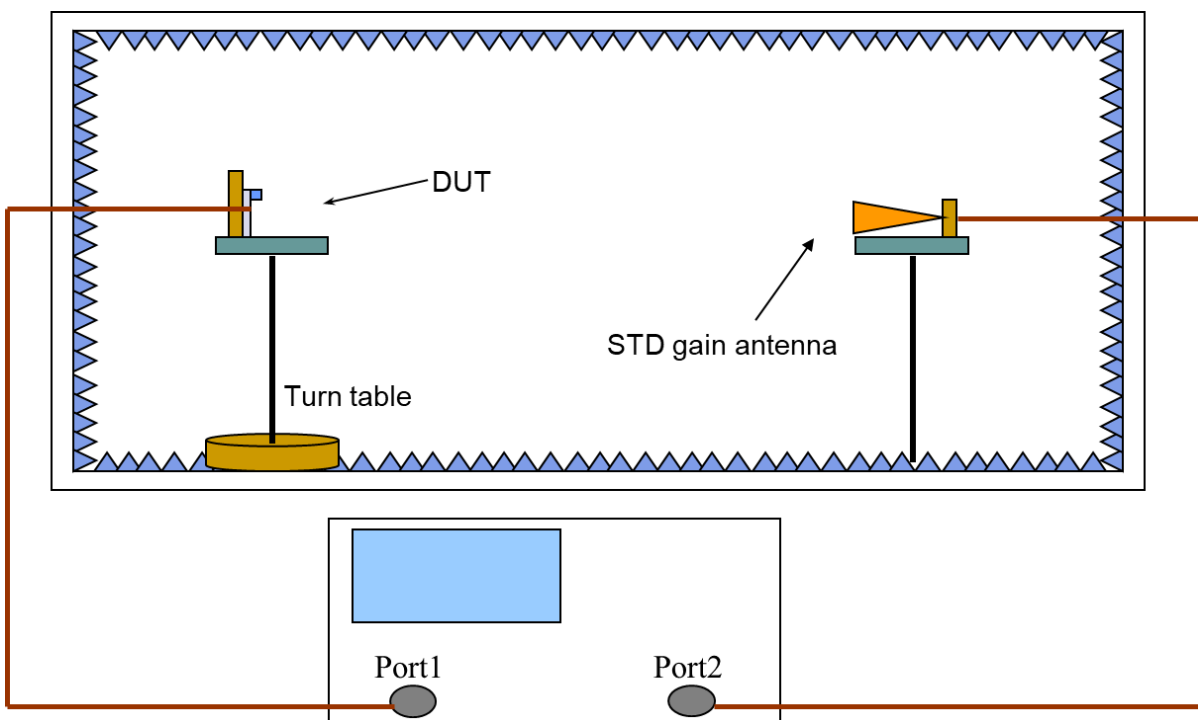
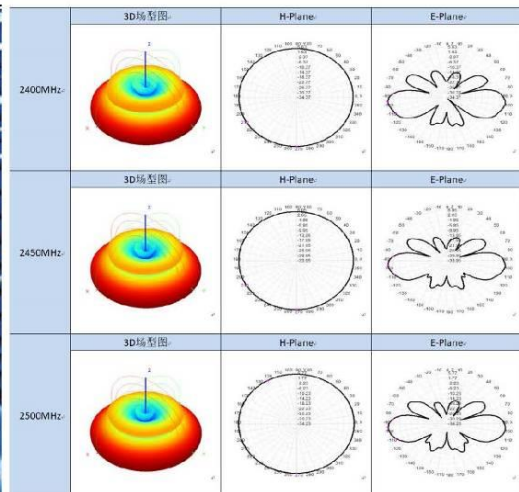
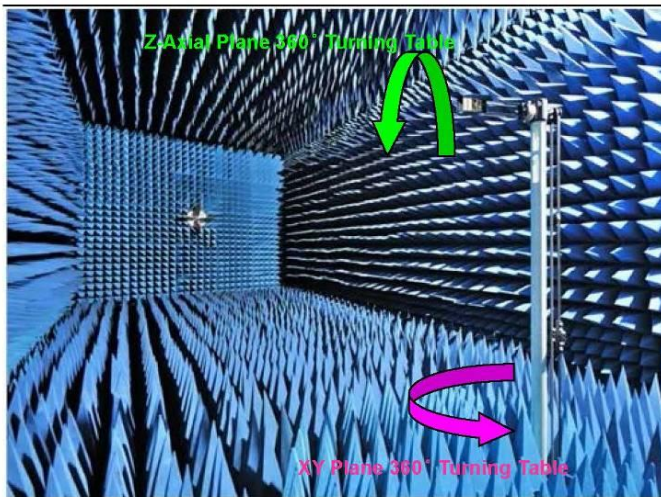
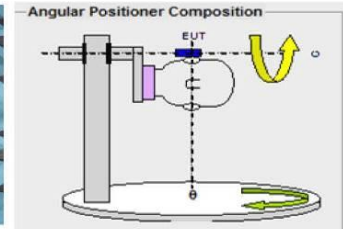
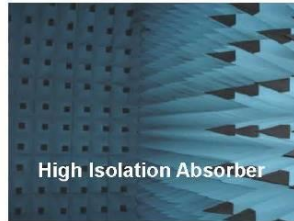
Weight	0.065Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 85 °C
Storage Temperature	- 40 °C ~ + 85 °C

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

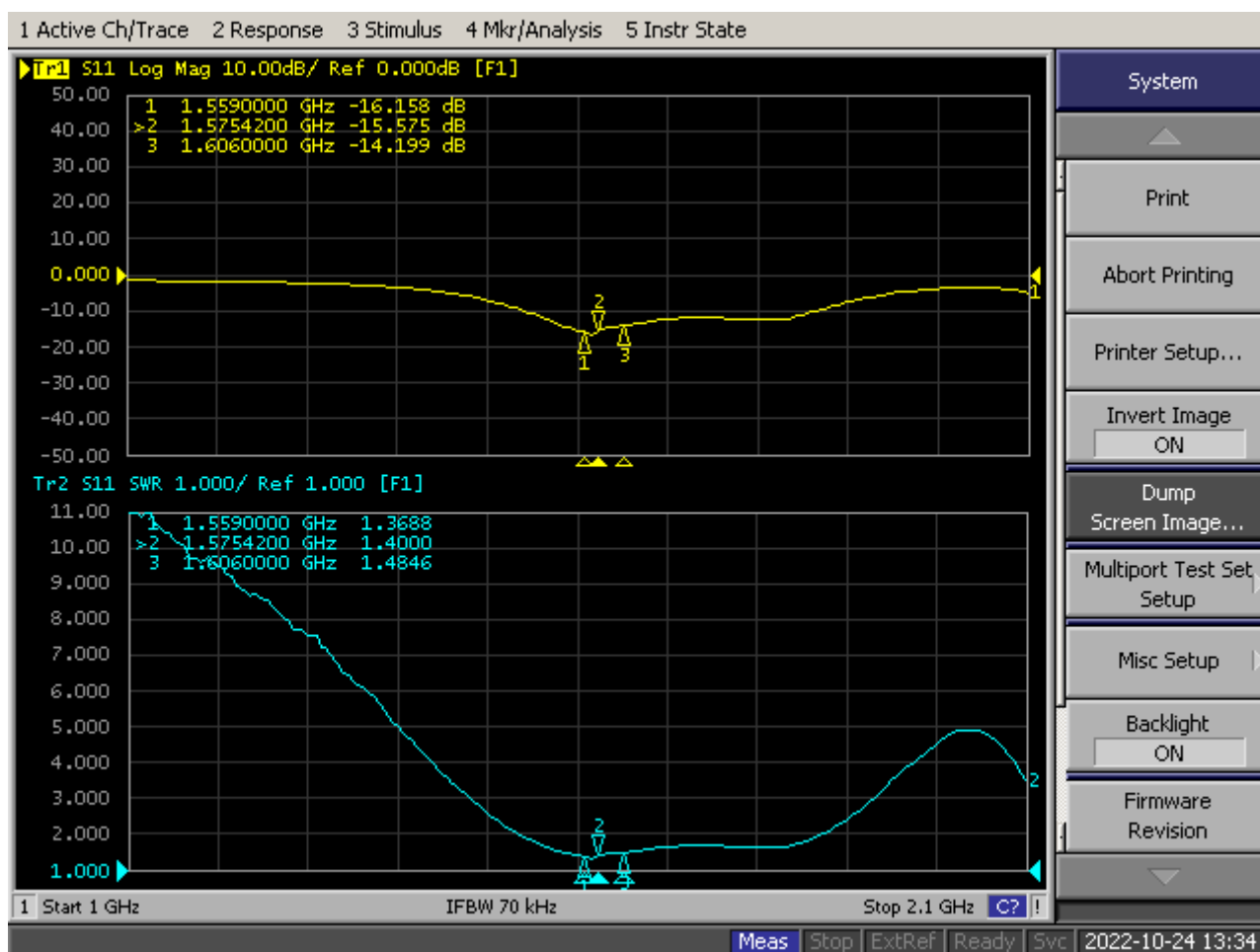




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2. Antenna - S Parameter Test Data

2.1 VSWR





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2.2 LNA Gain:

Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)
1559.0	19.91	1583.0	20.36
1560.0	19.94	1584.0	20.43
1561.0	19.77	1585.0	20.59
1562.0	20.03	1586.0	20.44
1563.0	19.85	1587.0	20.39
1564.0	19.79	1588.0	20.40
1565.0	19.62	1589.0	20.43
1566.0	19.65	1590.0	20.47
1567.0	19.47	1591.0	21.23
1568.0	19.60	1592.0	21.82
1569.0	19.77	1593.0	22.19
1570.0	20.06	1594.0	22.25
1571.0	20.25	1595.0	22.07
1572.0	20.39	1596.0	21.80
1573.0	20.61	1597.0	21.40
1574.0	20.76	1598.0	20.91
1575.0	20.79	1599.0	20.45
1576.0	20.64	1600.0	20.07
1577.0	20.57	1601.0	20.12
1578.0	20.39	1602.0	20.17
1579.0	20.41	1603.0	20.34
1580.0	20.40	1604.0	20.55
1581.0	20.24	1605.0	20.82
1582.0	20.29	1606.0	20.76



2.3 Radiation Pattern

	3D	2D-Horizontal	2D-Vertical
1559M Hz			
1561M Hz			
1575M Hz			



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3. Mechanical Drawing

