


1. Specification

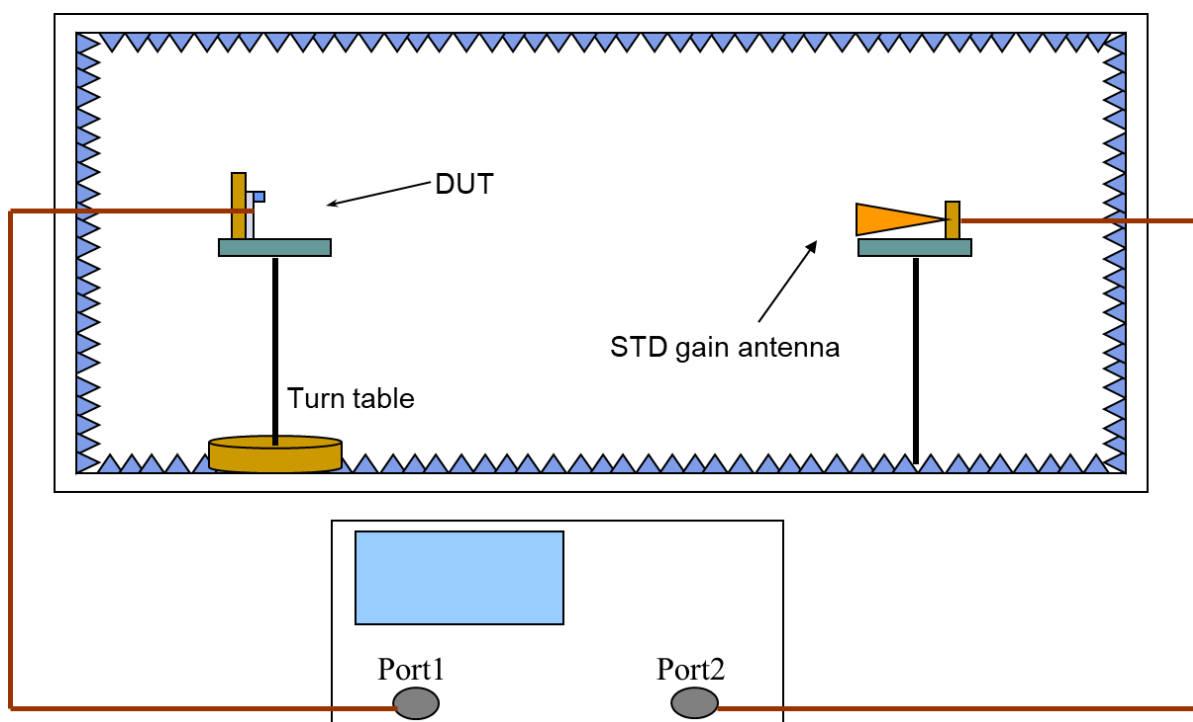
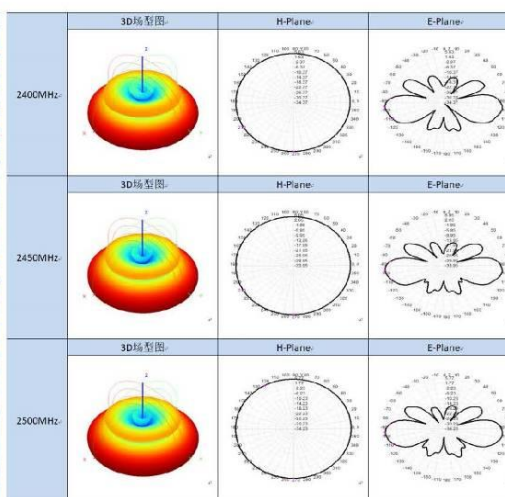
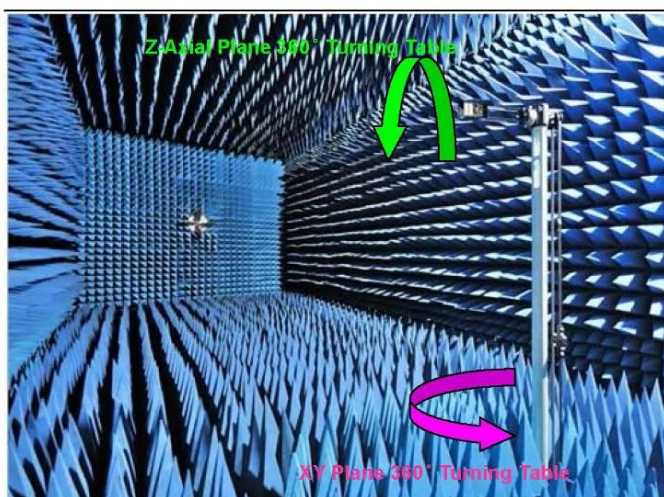
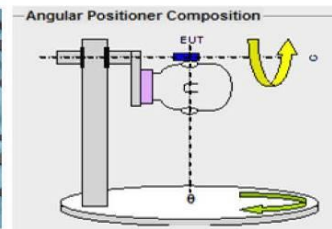
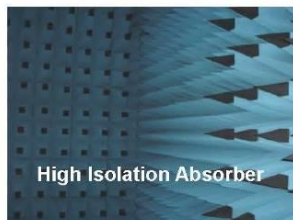
| Sample Photo | |
|--|-------------------|
|  | |
| A. Electrical Characteristics | |
| Frequency | 3700-4200MHz |
| S.W.R. | <= 1.8 |
| Antenna Gain | 17dBi |
| Polarization | Vertical |
| Horizontal Beamwidth | 13-15° |
| Vertical Beamwidth | 23-25° |
| F/B | >24dB |
| Impedance | 50Ohm |
| Max. Power | 50W |
| B. Material & Mechanical Characteristics | |
| Connector Type | N connector |
| Dimension | 220*220*25mm |
| Radome material | ABS |
| Weight | 1.09Kg |
| 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

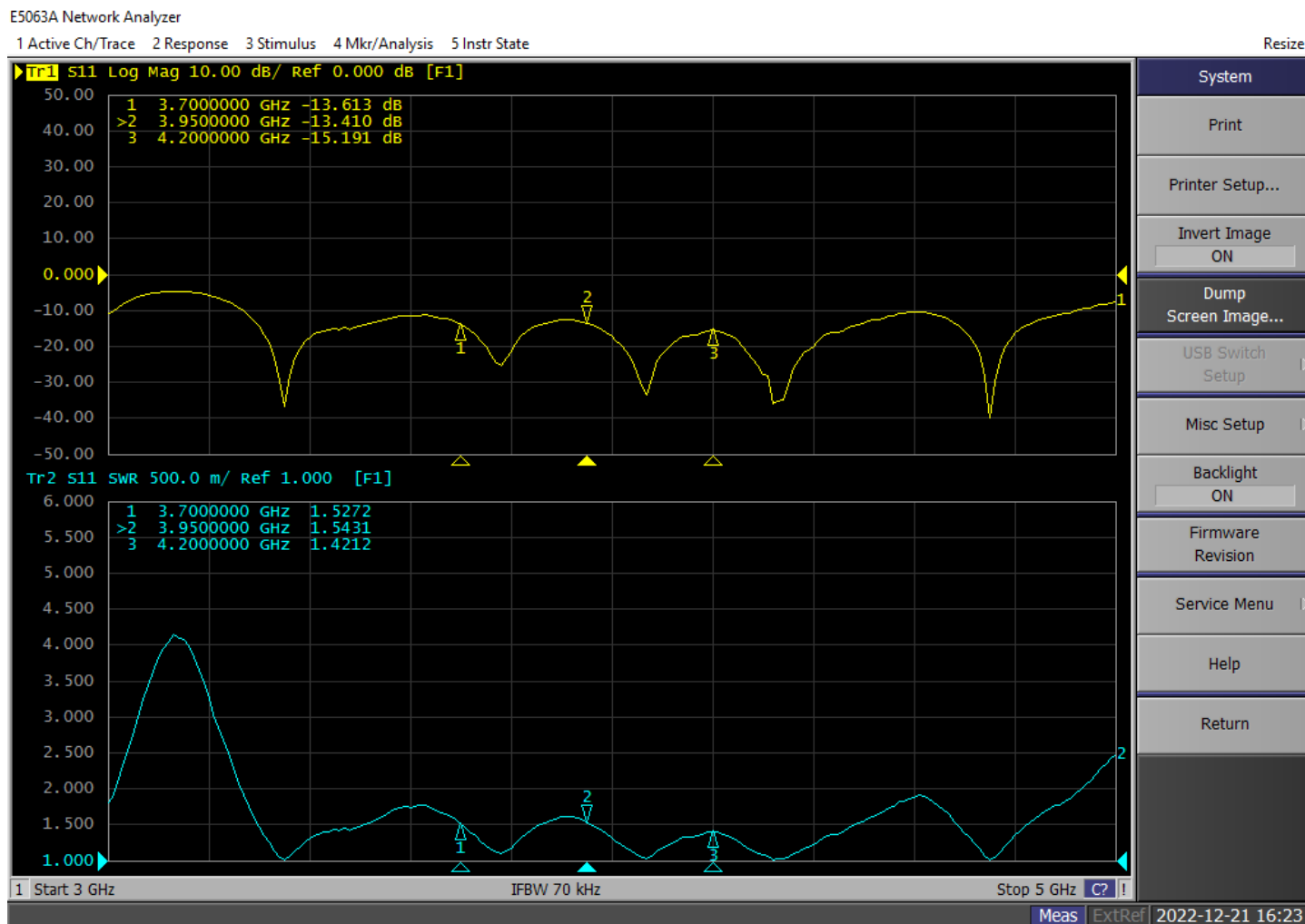




Product Number: BGS-AN3700-22022025G
Product Name: 3.7-4.2GHz UWB Flat Panel Antenna 17dBi

2. Antenna - S Parameter Test Data

2.1 VSWR





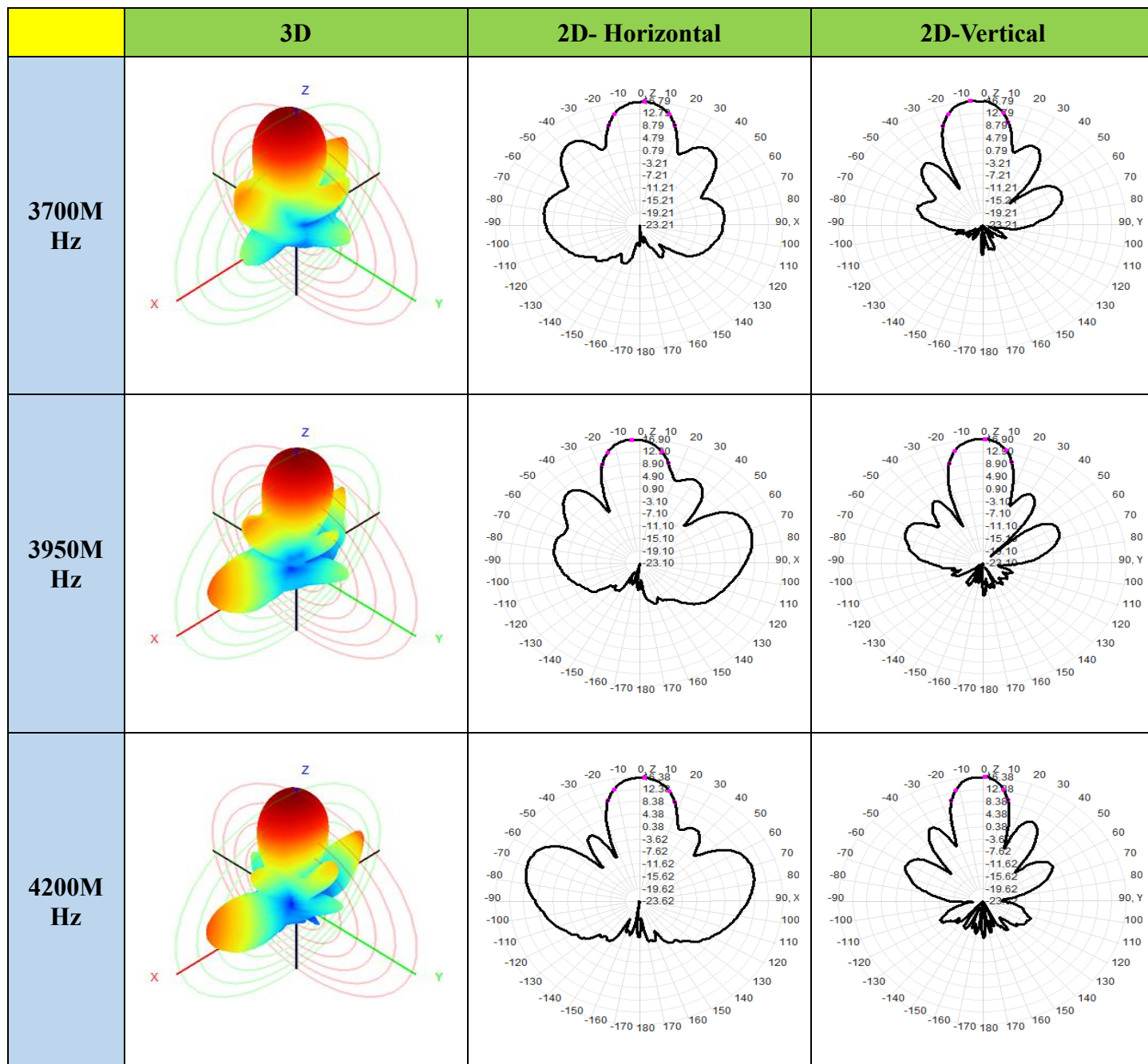
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2.2 Gain:

| Frequency(MHz) | Gain(dBi) |
|----------------|-----------|
| 3700 | 16.87 |
| 3750 | 16.81 |
| 3800 | 17.08 |
| 3850 | 17.05 |
| 3900 | 17.16 |
| 3950 | 16.87 |
| 4000 | 16.73 |
| 4050 | 17.16 |
| 4100 | 17.17 |
| 4150 | 16.74 |
| 4200 | 16.42 |
| | |

2.3 Radiation Pattern

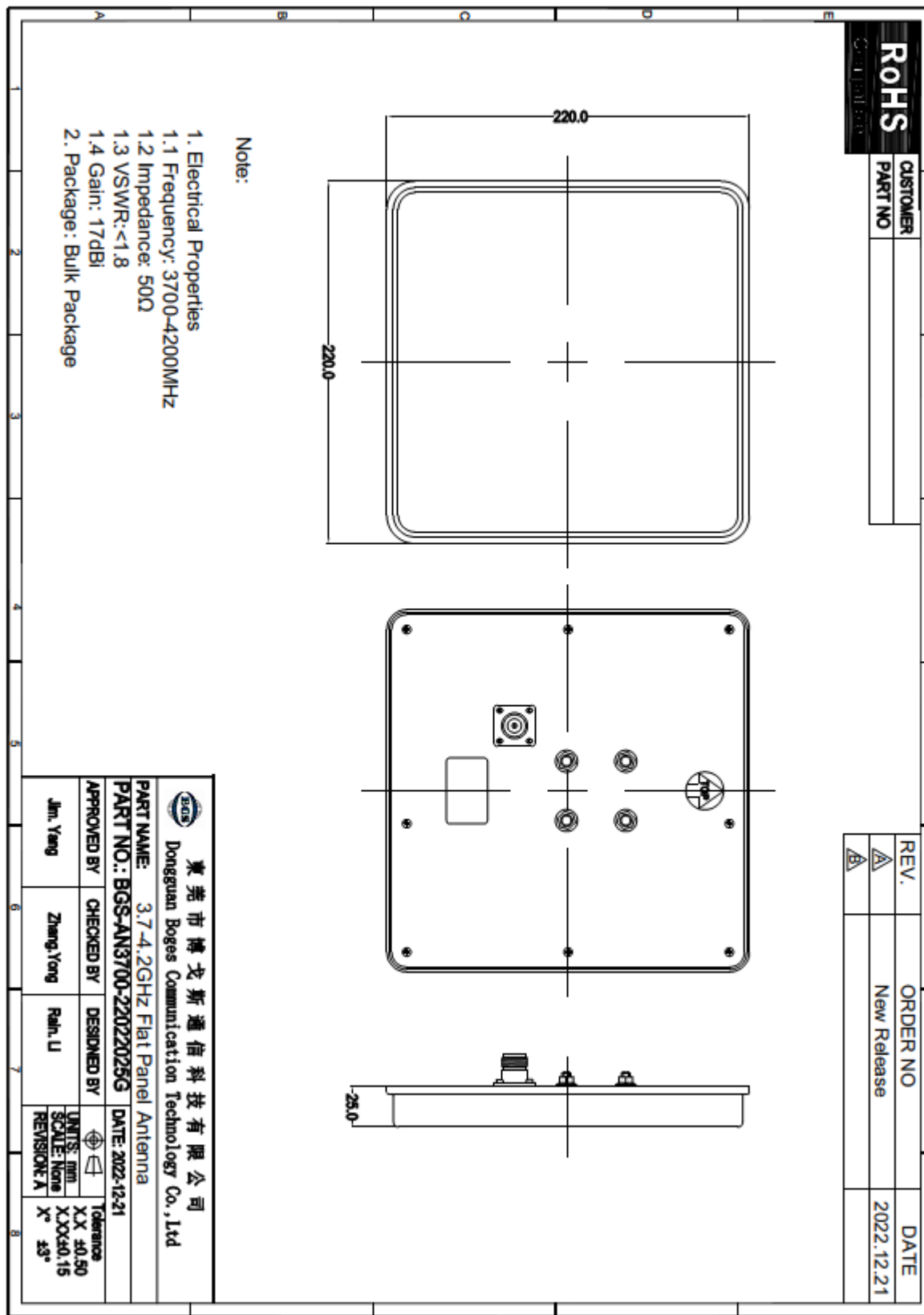




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3. Mechanical Drawing



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