




Product Number: BGS-AN2458-29020540G
Product Name: 2.4/5.8GHZ Flat Panel Antenna 14dBi

1. Specification

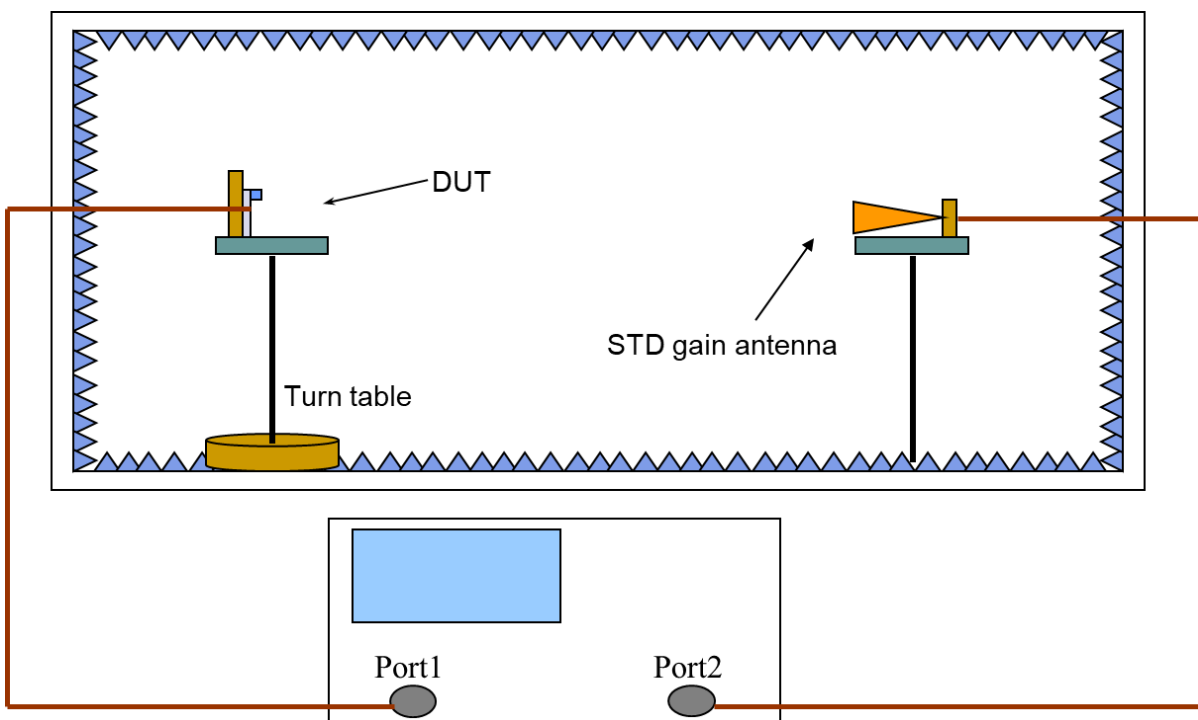
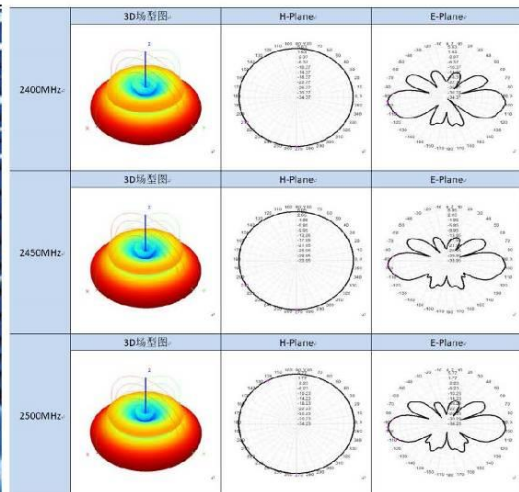
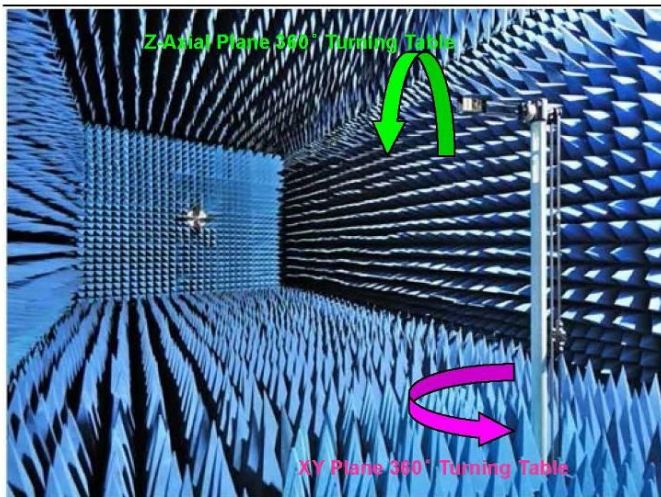
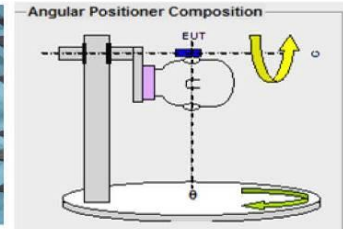
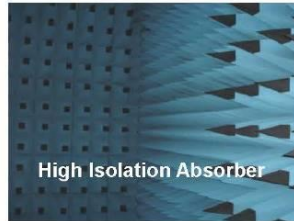
| Sample Photo | | |
|--|-------------------|--------------|
|  | | |
| A. Electrical Characteristics | | |
| Port | Port1 | Port2 |
| Frequency | 2400-2500MHz | 5180-5320MHz |
| S.W.R. | ≤ 1.8 | ≤ 1.8 |
| Antenna Gain | 14dBi | 14dBi |
| Polarization | Vertical | Vertical |
| Horizontal Beamwidth | 40-42° | 25-26° |
| Vertical Beamwidth | 36-38° | 35-38° |
| F/B | >32dB | >28dB |
| Impedance | 50Ohm | 50Ohm |
| Max. Power | 50W | 50W |
| B. Material & Mechanical Characteristics | | |
| Connector Type | N connector | |
| Dimension | 290*205*40mm | |
| Radome material | ASA | |
| Mount Pole | ∅30-∅75 | |
| Weight | 1.4Kg | |
| 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

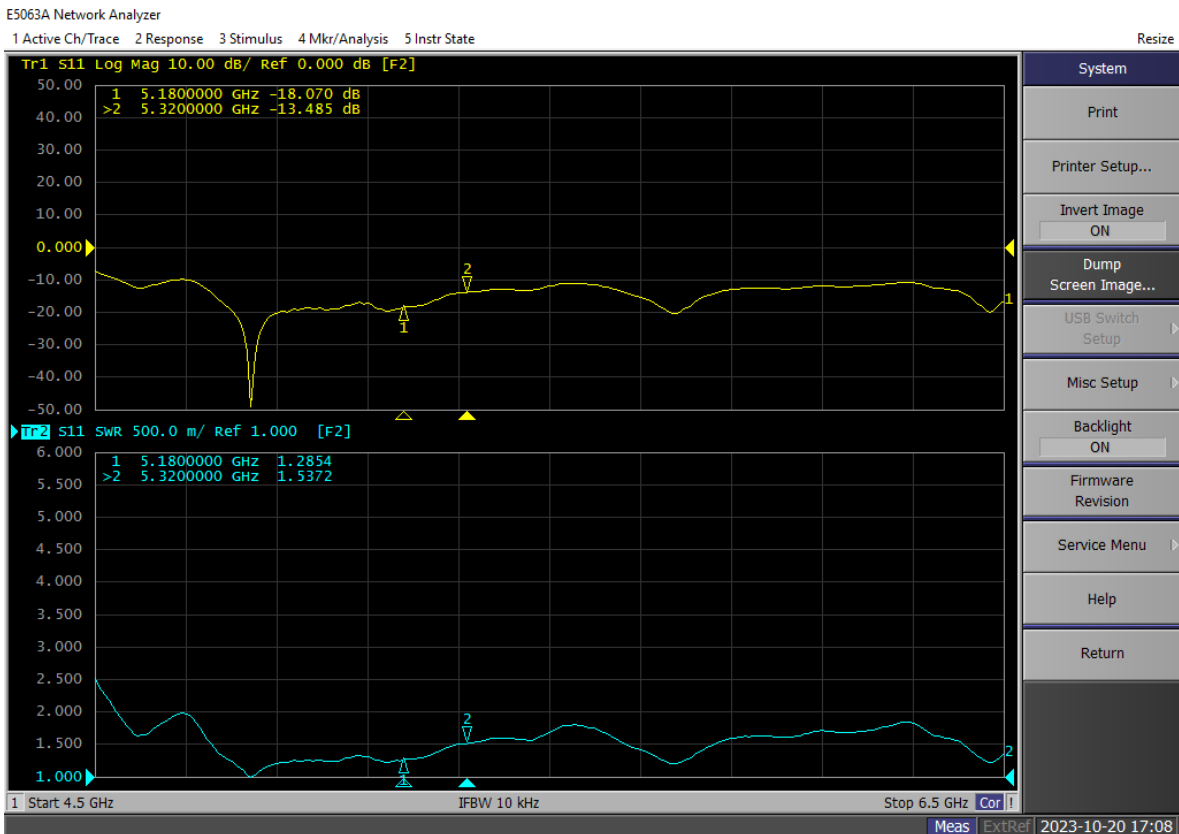
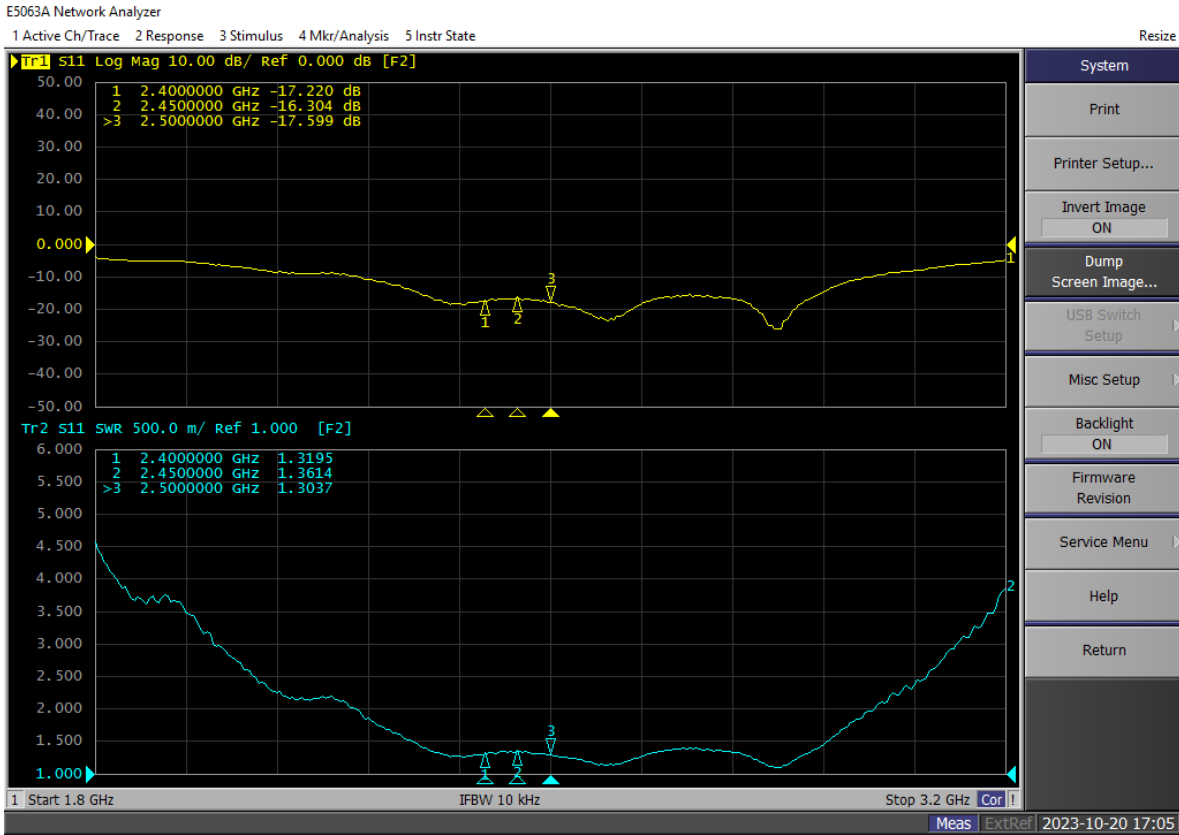




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2. Antenna - S Parameter Test Data

2.1 VSWR





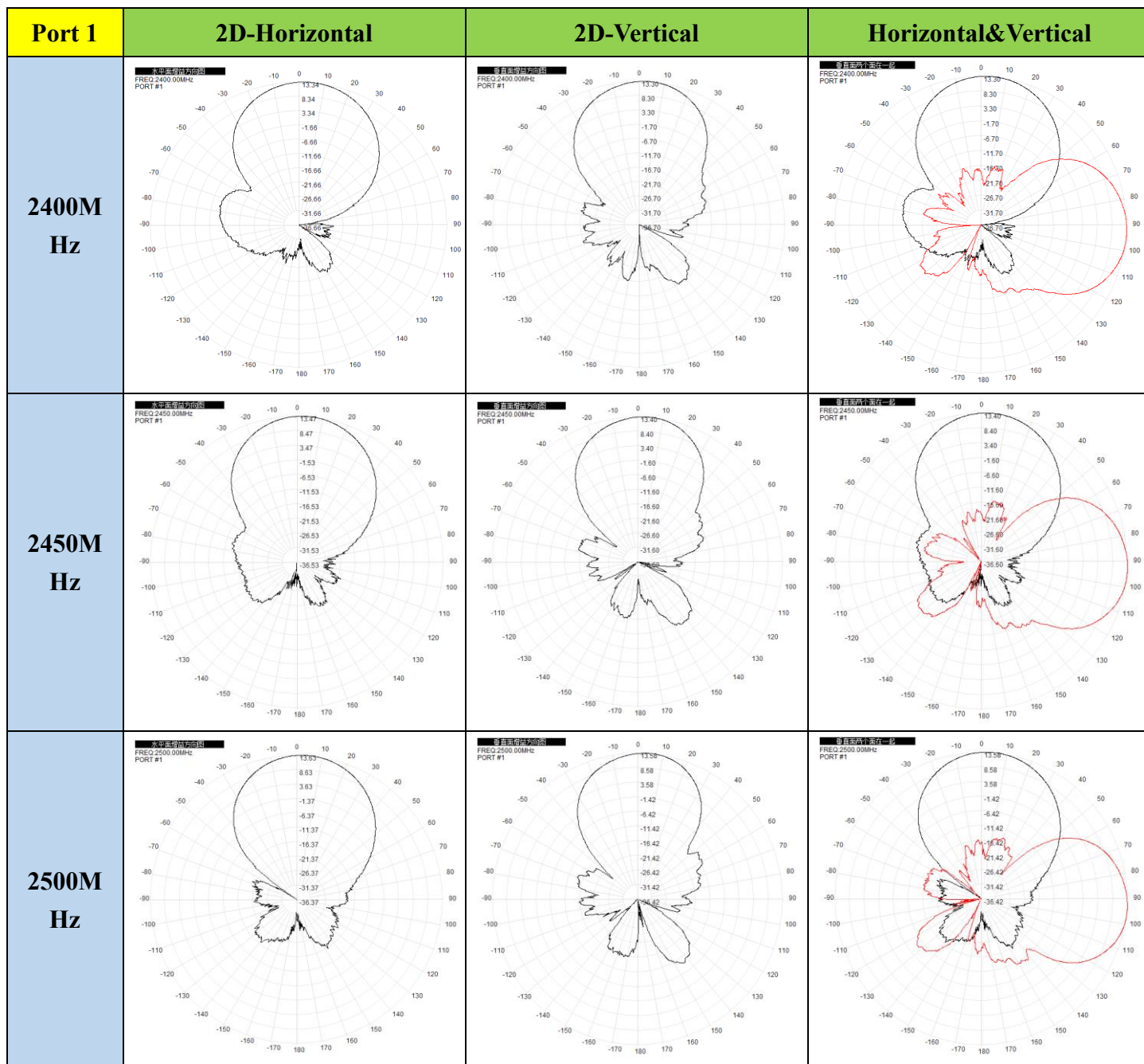
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2.2 Gain:

| Port 1 | | Port 2 | |
|----------------|-----------|----------------|-----------|
| Frequency(MHz) | Gain(dBi) | Frequency(MHz) | Gain(dBi) |
| 2400 | 13.3 | 5180 | 14.6 |
| 2410 | 13.4 | 5190 | 14.8 |
| 2420 | 13.4 | 5200 | 14.7 |
| 2430 | 13.4 | 5210 | 14.9 |
| 2440 | 13.4 | 5220 | 14.7 |
| 2450 | 13.5 | 5230 | 14.6 |
| 2460 | 13.6 | 5240 | 14.5 |
| 2470 | 13.6 | 5250 | 14.5 |
| 2480 | 13.6 | 5260 | 14.7 |
| 2490 | 13.6 | 5270 | 14.6 |
| 2500 | 13.6 | 5280 | 14.4 |
| | | 5290 | 14.8 |
| | | 5300 | 14.5 |
| | | 5310 | 14.5 |
| | | 5320 | 14.7 |
| | | | |

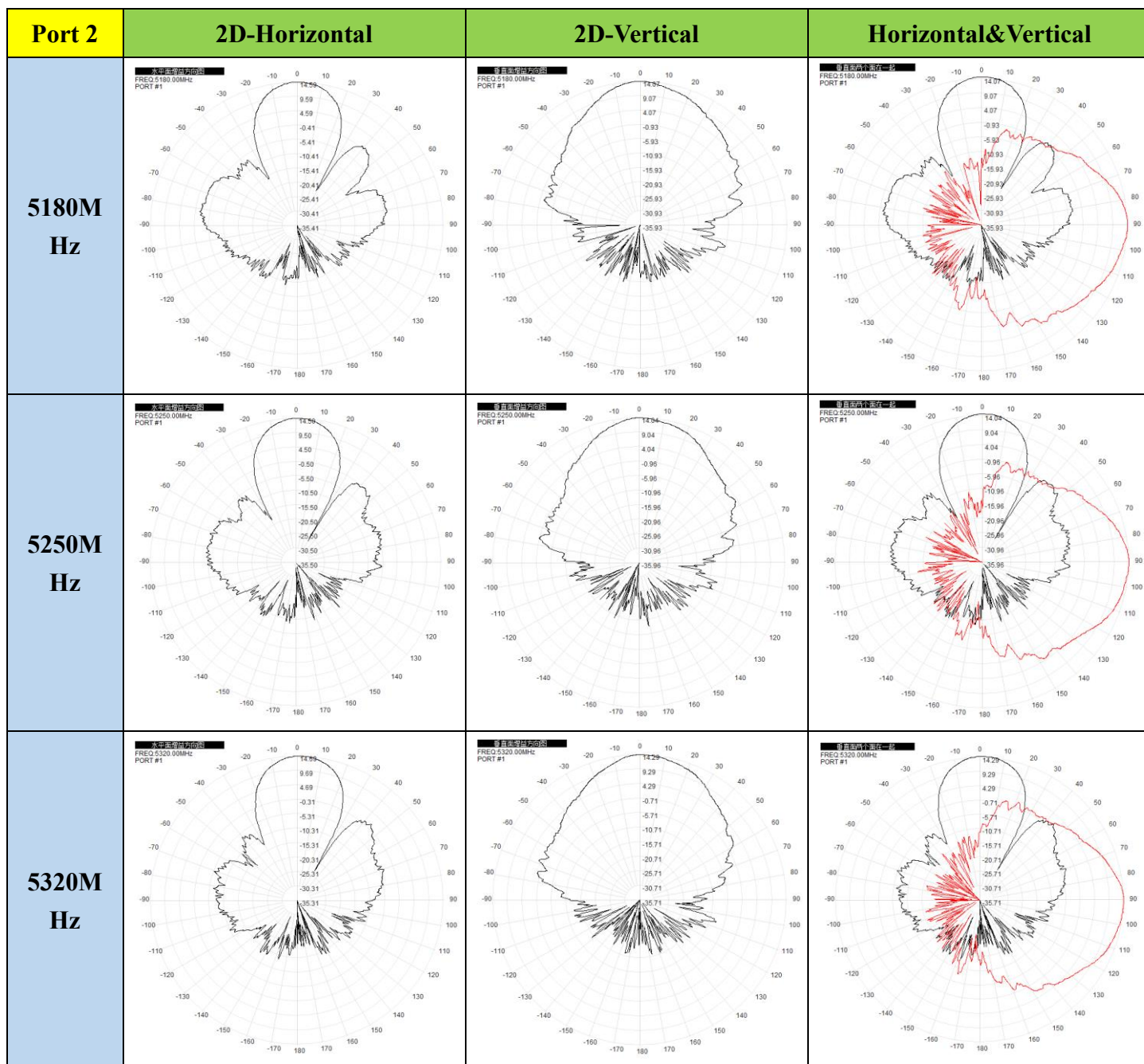


2.3 Radiation Pattern





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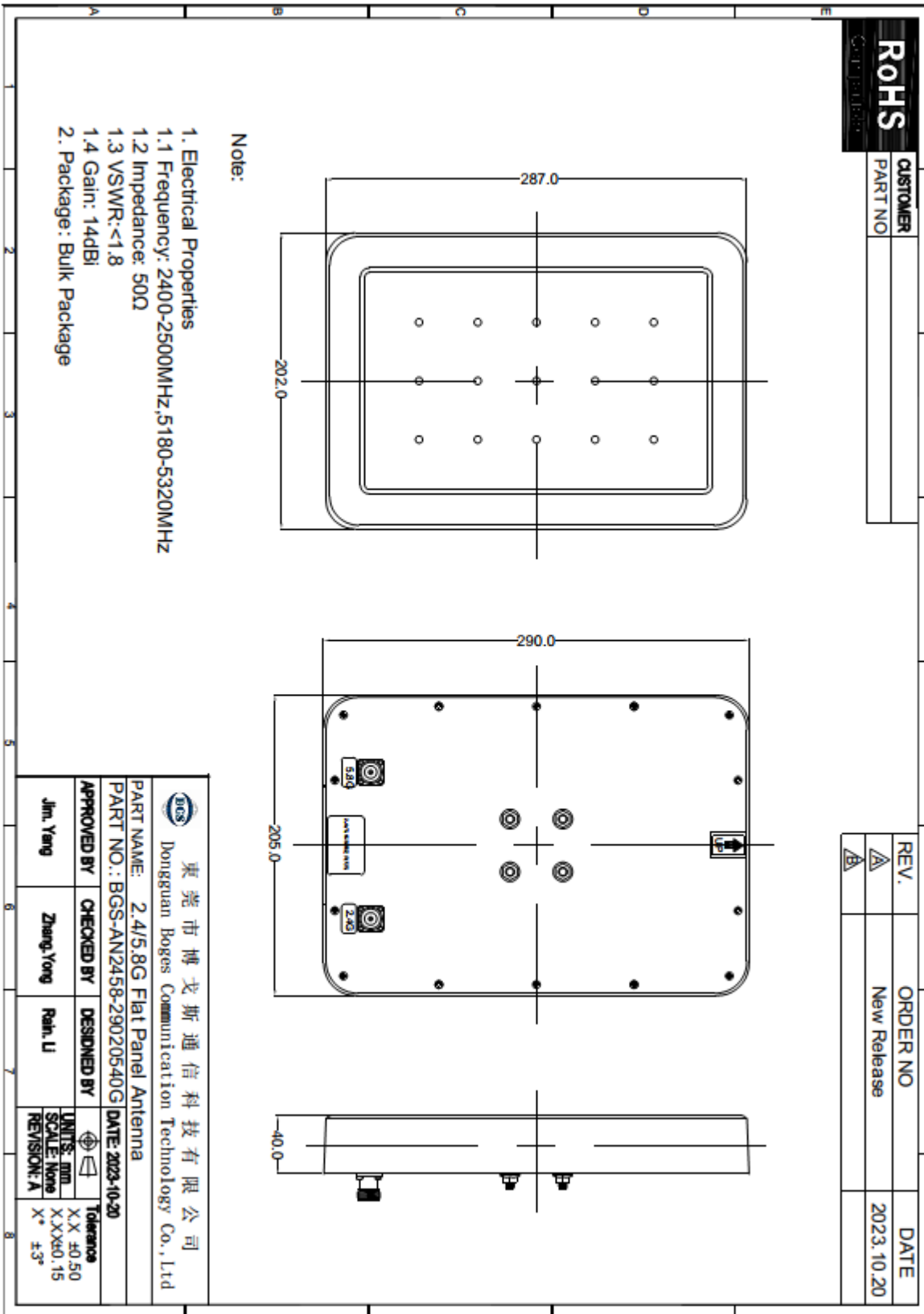




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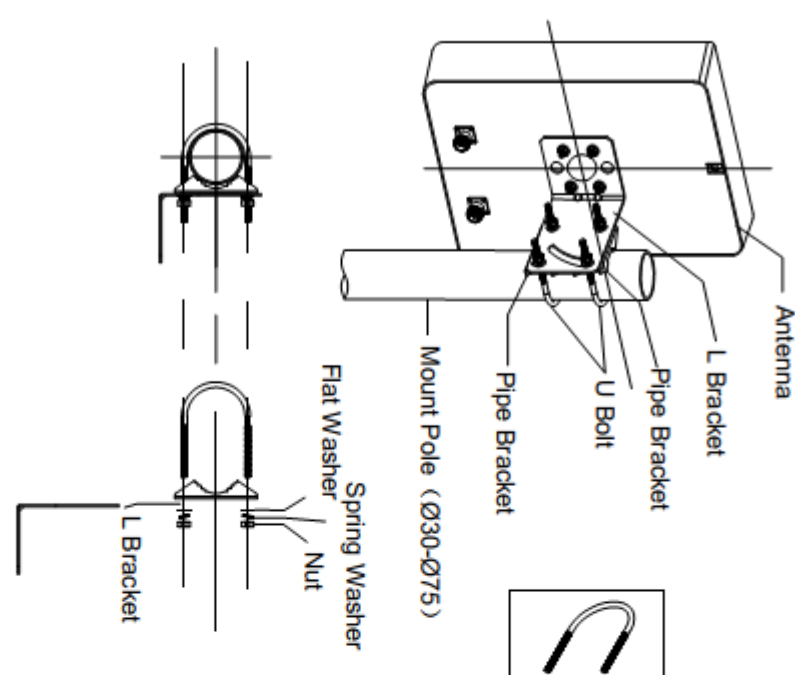
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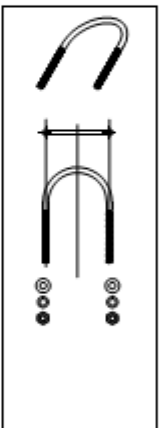
3. Mechanical Drawing



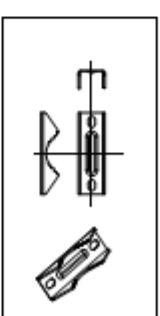
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| RoHS | | CUSTOMER | REV. | ORDER NO | DATE |
|---------|--|----------|------|-------------|------------|
| PART NO | | | A | New Release | 2023.10.20 |

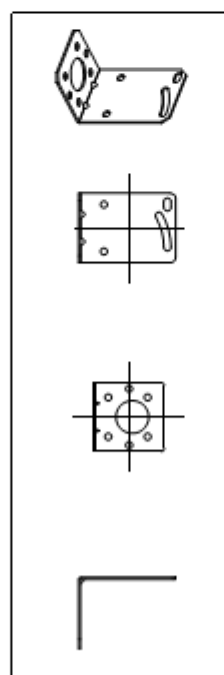






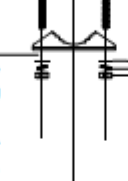
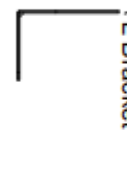
U Bolt

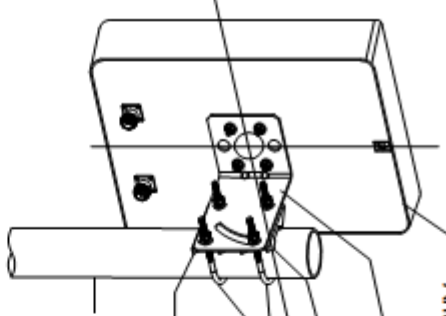
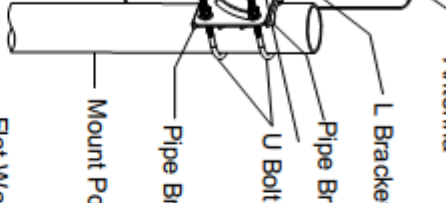
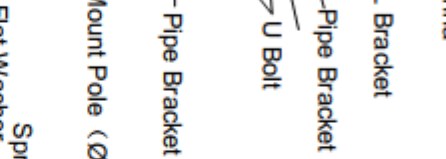





Pipe Bracket



L Bracket

| | |
|--|--|
|  <p>Spring Washer</p> |  <p>Flat Washer</p> |
|  <p>Nut</p> |  <p>L Bracket</p> |

| | |
|--|---|
|  <p>Antenna</p> |  <p>L Bracket</p> |
|  <p>Pipe Bracket</p> |  <p>U Bolt</p> |
|  <p>Mount Pole (Ø30-Ø75)</p> | |

| | |
|---|---|
|  <p>东莞市博戈斯通信科技有限公司 Dongguan Boges Communication Technology Co., Ltd</p> | <p>PARTNAME: Antenna Accessories PART NO.: BGS-AN2458-29020540G DATE: 2023-10-20</p> |
| <p>APPROVED BY: Jin Yang CHECKED BY: Zhang Yong DESIGNED BY: Rui Li</p> | <p>UNITS: mm SCALE: None REVISION: A</p> <p style="text-align: right;">Tolerance X.X ±0.50 X.XX ±0.15 X° ±3°</p> |