



WIESON TECHNOLOGIES CO., LTD.

15F., No.237, Sec.1, Datong Rd., Xizhi Dist., New Taipei City, Taiwan

WIESON 3D CHAMBER TEST REPORT

Customer: **Bowers & Wilkins**

Project Name: **Marantz Prospect**

WIESON P/N: **ARY196-0383-007-00**

Antenna Type: **Dipole**

Version No. : **02**

Contact Information:

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Revision History

| Revision | Date | Engineer | Description |
|----------|------------|----------|-------------|
| 01 | 2023/02/08 | Emily | NEW RELEASE |
| 02 | 2023/02/17 | Emily | UpDate |
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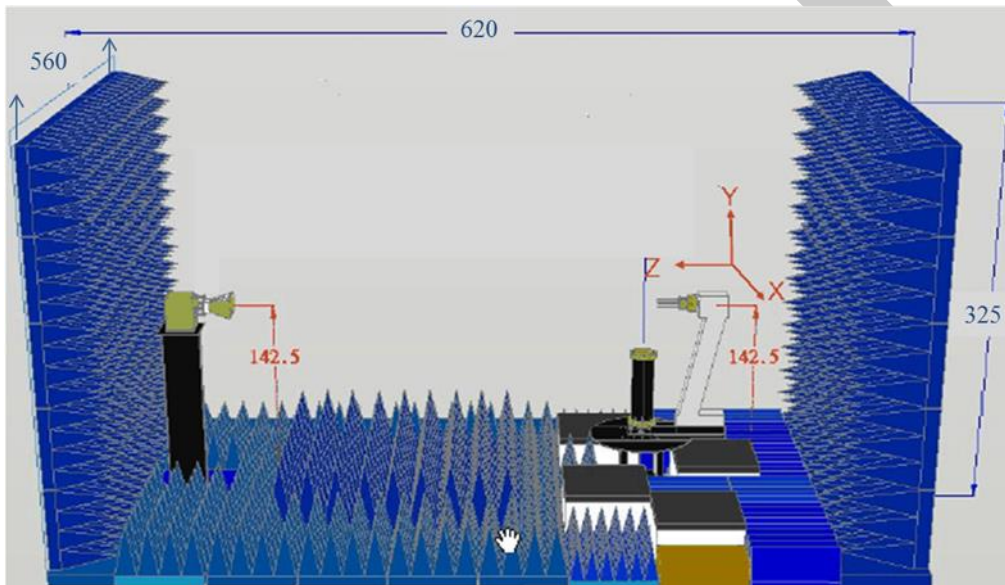
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I. TEST & SYSTEM DESCRIPTION

■ Test setup



■ Equipment list

| Device | Ttype/Model | Serial# | Manufacturer | Cal. Date | Cal. Due Date |
|--|-----------------------|-------------------------|-----------------------------|-----------|---------------|
| Anechoic Chamber | FFC-600L | FFC-600L-285 | wavepro | 30-Apr-22 | 30-Apr-23 |
| Network Analyzer | N5230A | MY45000163 | Agilent Technologies | 11-May-21 | 11-May-23 |
| Turntable | NSI-SC-5606-3DZ | 011 | NSI-MI | N/A | N/A |
| Measurement SW | NSI 2000 | SOM-SM-2000-V4 | NSI-MI | N/A | N/A |
| Dual Polarization Vivaldi Antenna 0.6~8GHz | - | - | WavePro Inc. | 30-Oct-20 | 30-Oct-23 |
| Computer Monitor | HS-CM145 | 0410006420 | CCTVINDIA | 30-Aug-20 | 30-Aug-23 |
| Industrial PC | IPC-610BP | | Advantech Co., Ltd | 30-Aug-20 | 30-Aug-23 |
| Standard Beam Controller (SBC) | NSI-RF-5918 | 070 | NSI-MI | 30-Oct-20 | 30-Oct-23 |
| Antenna Range Controller (ARC) | NSI-SC-5911-4 | 0335 | NSI-MI | 30-Oct-20 | 30-Oct-23 |
| RF Cable 240in 22GHz | UFA210C-1-2400-300300 | MFR 64639 207908-005 | Carlisle Interconnect Tech. | 30-Aug-20 | 30-Aug-23 |
| RF Cable 240in 22GHz | UFA210C-1-2400-300300 | MFR 64639 209026-013 | Carlisle Interconnect Tech. | 30-Aug-20 | 30-Aug-23 |
| RF Cable 60cm 26.5GHz | EC-A5-60-1678 | Z0066 | E-INSTUMENT TECH LTD. | 30-Aug-20 | 30-Aug-23 |



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WiFi 6E PCB ANTENNA

II. PRODUCT DESCRIPTION

- Antenna Name : WiFi 6E PCB ANTENNA
- WIESON P/N : ARY196-0383-007-00
- Antenna Type : Dipole

Specification

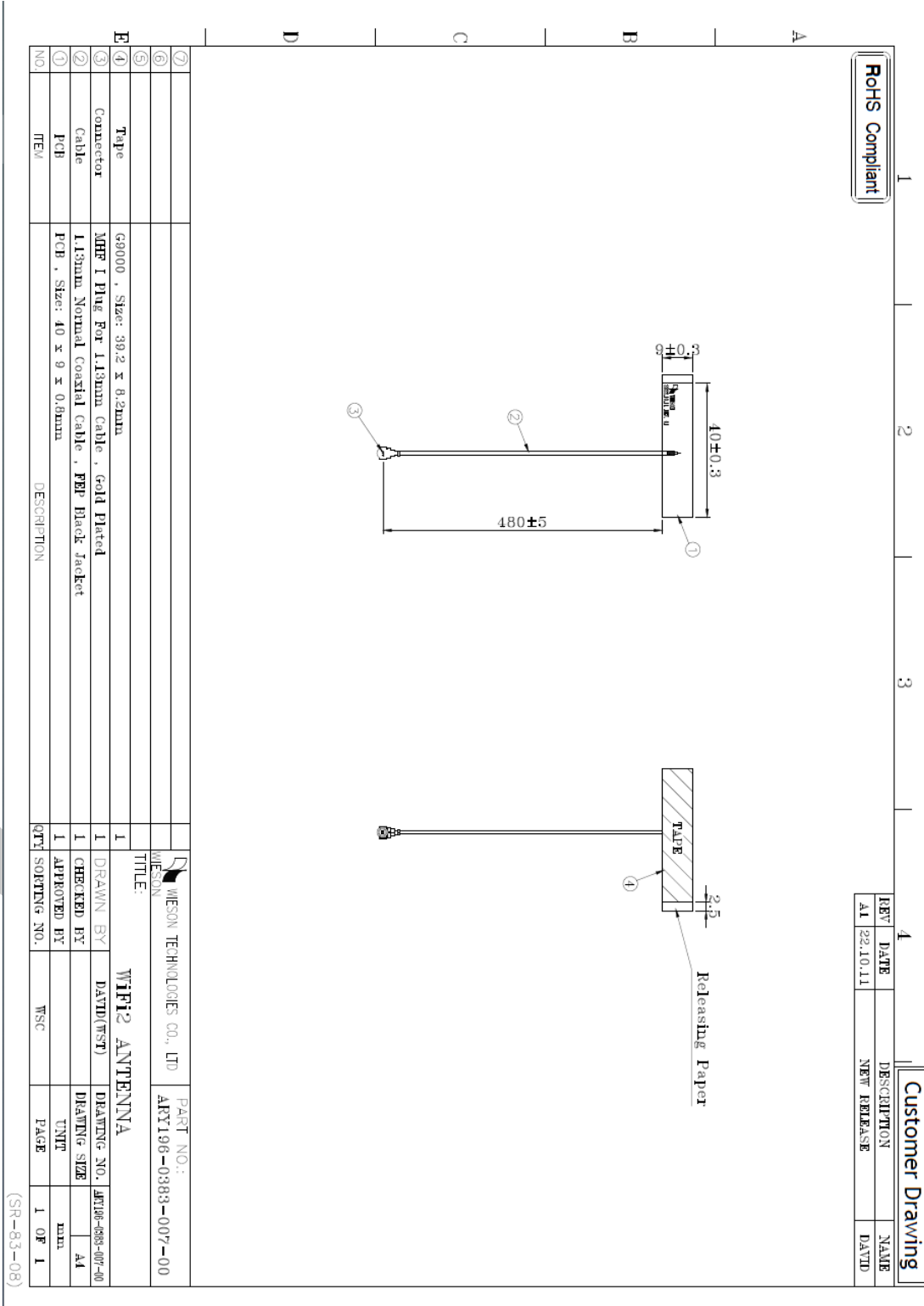
- Frequency:2400~2500MHz,5150~5850MHz, 5925~7125MHz
- PCB size: 40 x 9 x 0.8mm
- MHF-I (U.FL compatible) connector
- Cable OD1.13mm, Cable Length: 480mm
- PCB 、 cable and connector can be customized





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III. PRODUCT STRUCTURE INFORMATION





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IV. ELECTRONIC CHARACTERISTICS

| | Specification | Specification | Specification |
|---------------------------------|------------------|------------------|------------------|
| Operating Frequency(GHz) | 2.4-2.5 | 5.15-5.85 | 5.925-7.125 |
| Polarization | Linear | Linear | Linear |
| Azimuth Bandwidth | Omni-directional | Omni-directional | Omni-directional |
| Impedance | 50Ω | 50Ω | 50Ω |
| Material | PCB | PCB | PCB |
| Maximum Power | 1W | 1W | 1W |
| Radiation | Omni directional | Omni directional | Omni directional |
| Connector | MHF | MHF | MHF |
| Cable type | OD:1.13 | OD:1.13 | OD:1.13 |
| Operating Temperature | -10~60°C | -10~60°C | -10~60°C |
| Storage temp | -10~70°C | -10~70°C | -10~70°C |



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ELECTRICAL REQUIREMENTS FOR CABLE LENGTH 480mm

| Item | Specification | Specification | Specification |
|---------------------------------|----------------------|----------------------|----------------------|
| Operating Frequency(GHz) | 2.4-2.5 | 5.15-5.85 | 5.925-7.125 |
| Bandwidth | 100 MHz (Min.) | 700MHz (Min.) | 1200MHz (Min.) |
| Return Loss | 10 dB (Typ) | 10 dB (Typ) | 10 dB (Typ) |
| Peak Gain | 1.7dBi (Max) | 1.6dBi (Max) | 1.7dBi (Max) |
| Maximum Power | 1W | 1W | 1W |
| Efficiency | >57% | >56% | >55% |

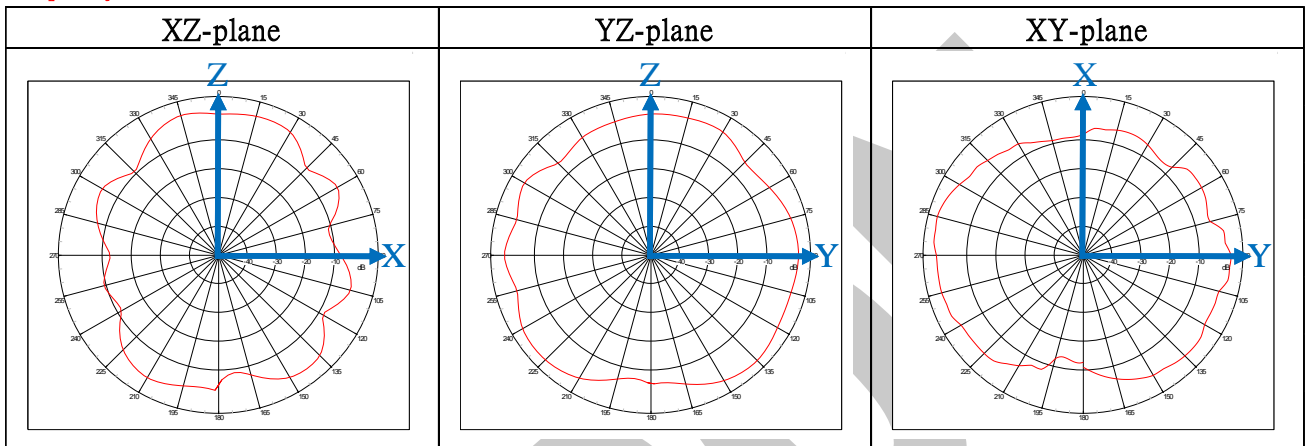
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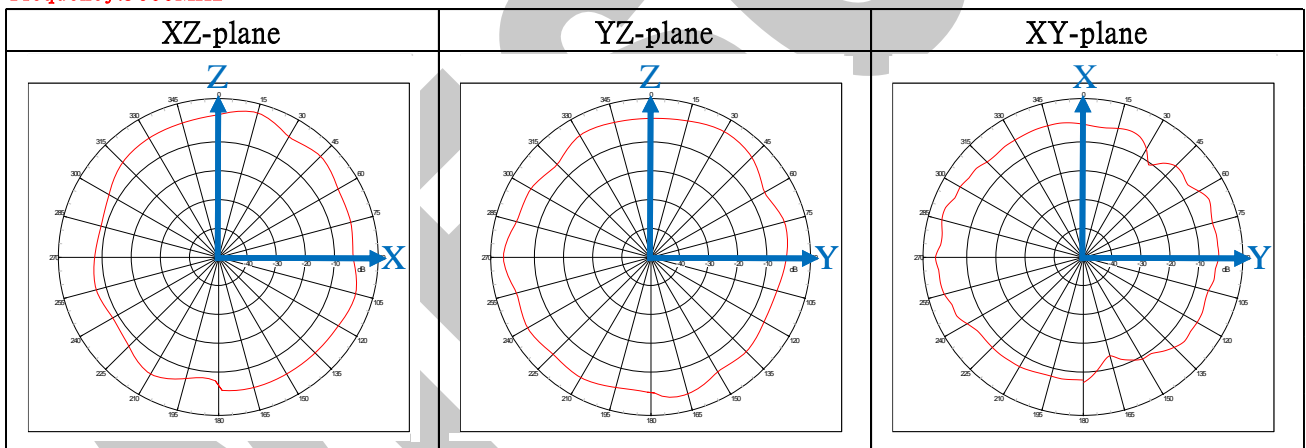
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V. 2D RADIATION PATTERN OF ANTENNA

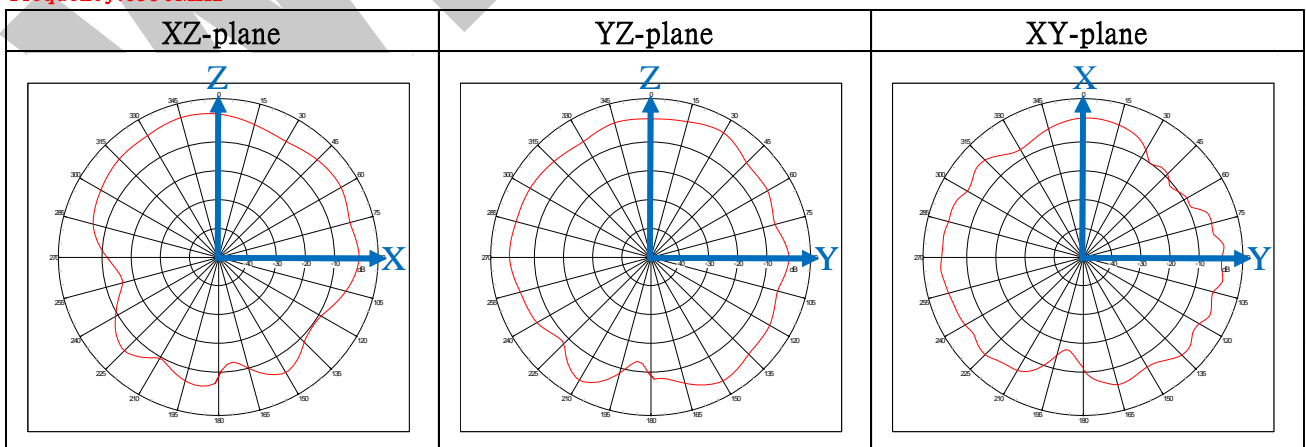
Frequency:2450MHz



Frequency:5600MHz



Frequency:6550MHz



(Test in Free Space)