



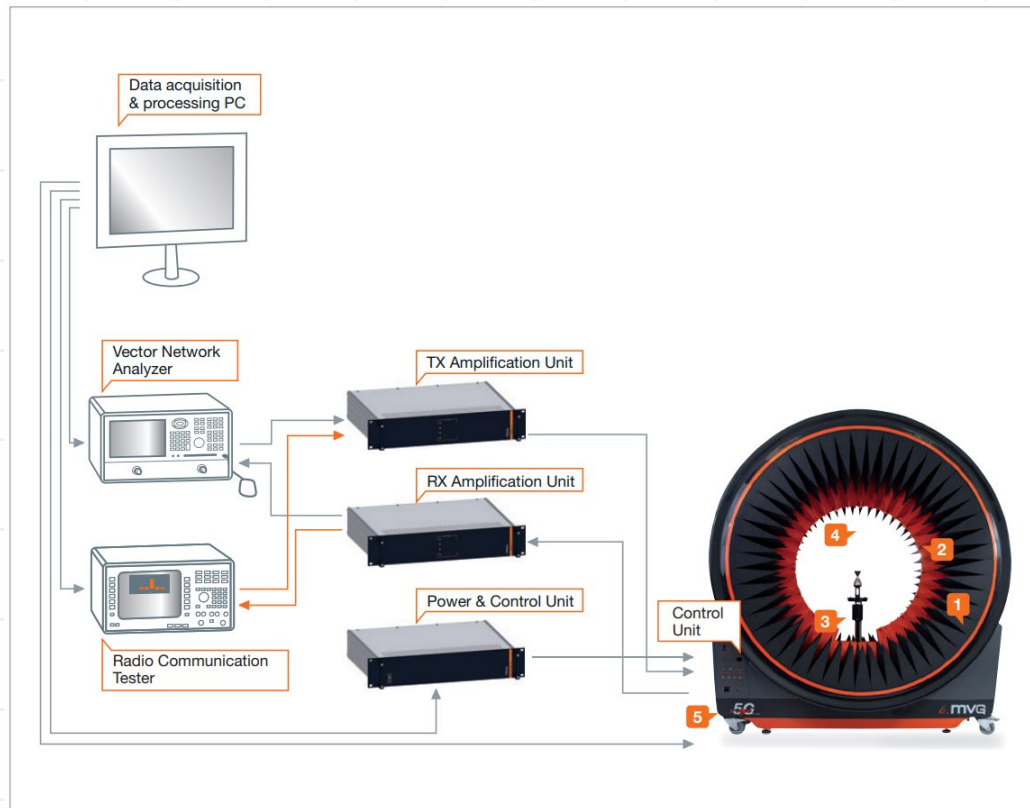
BEE-014 AUT Report

Antenna specification

- Frequency Range
 - 2402-2480 MHz
- Antenna Type
 - PCB antenna
- Connector Type
 - PCB integrated
- Antenna Gain (Peak)
 - +1.93 dBi

Antenna measurement procedure

- The antenna gain is measured with StarLab system.

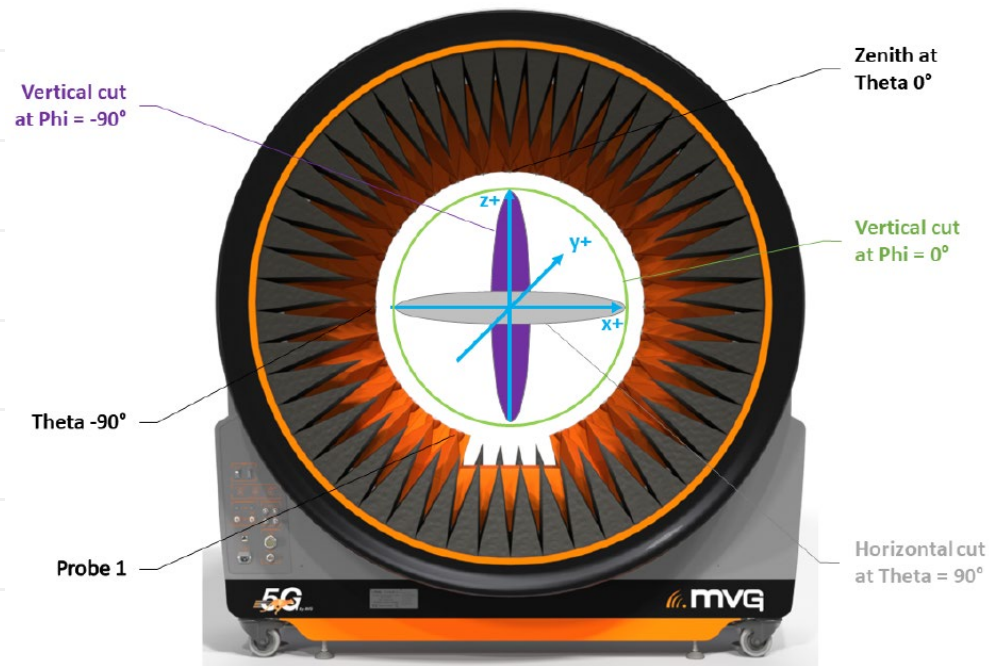


1. Wedge Absorber
2. Probe
3. Positioner
4. Oversampling
5. Accurate Stabilizer

(Reference: MVG, Datasheet of StarLab 50 GHz)

Antenna measurement procedure

- Measurement axis



(Reference: MVG, User Manual of StarLab 50 GHz)

Measurement information

- Test Facility
 - Nintendo Co., Ltd. Development Center
 - 2-1 Minamimatsuda-cho, Higashikujo, Minami-ku, Kyoto 601-8502, Japan
- Test Date
 - 2024/04/11
- Test Engineer
 - Mitsuru Katayama
- Measurement Software
 - Wave Studio ver.24.1.2

Measurement information

- Measurement Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Last Calibration Date |
|-------------------------|--------------|---------------|--------------|-----------------------|
| StarLab 50GHz system | MVG | StarLab 50GHz | 1103673-0003 | 2023/10/13 |
| Vector Network Analyzer | Keysight | P5008A | MY58100292 | 2023/10/13 |

Antenna Gain

| Frequency [MHz] | E_{ϕ} [dBi] | | | E_{θ} [dBi] | | |
|--------------------|------------------|----------|----------|--------------------|----------|----------|
| | XY plane | YZ plane | XZ plane | XY plane | YZ plane | XZ plane |
| 2400 | 1.10 | -1.53 | -5.15 | -10.26 | 0.20 | -4.34 |
| 2420 | 1.47 | -1.08 | -4.88 | -9.78 | 0.53 | -4.11 |
| 2440 | 1.73 | -0.72 | -4.82 | -9.48 | 0.62 | -4.14 |
| 2460 | 1.93 | -0.35 | -4.56 | -8.93 | 0.63 | -4.17 |
| 2480 | 1.74 | -0.38 | -4.37 | -8.70 | 0.52 | -4.44 |

Antenna Gain Chart

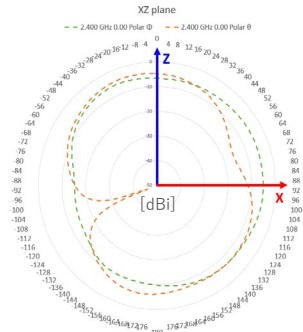
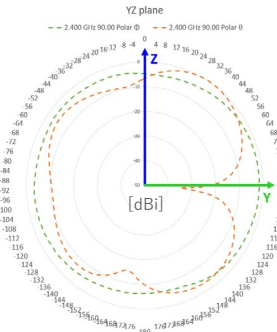
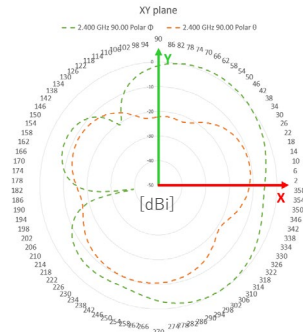
Frequency [MHz]

XY plane

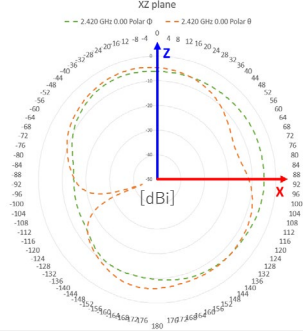
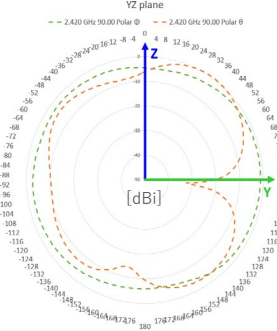
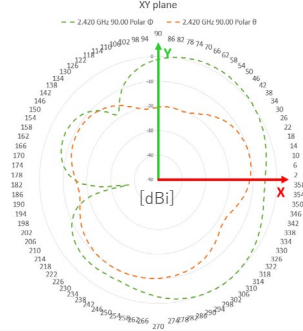
YZ plane

XZ plane

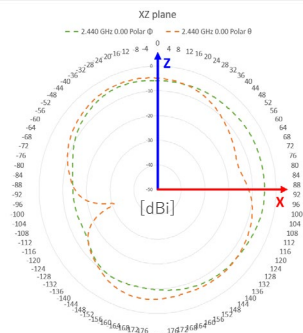
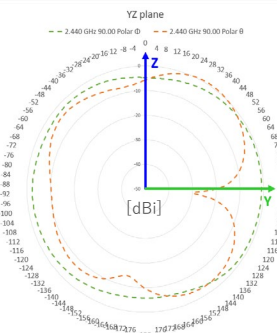
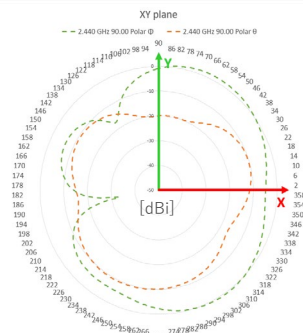
2400



2420



2440



Antenna Gain Chart

