

Vulcan

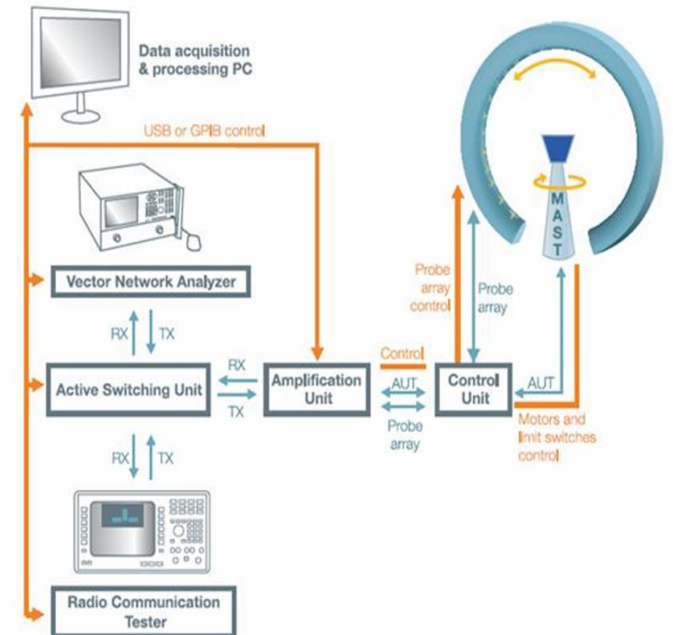
Antenna measurement report_EVT

V0.2



PRIMAX

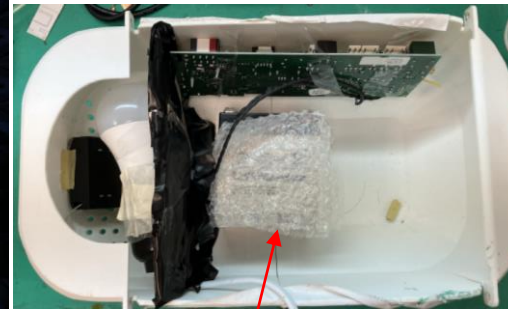
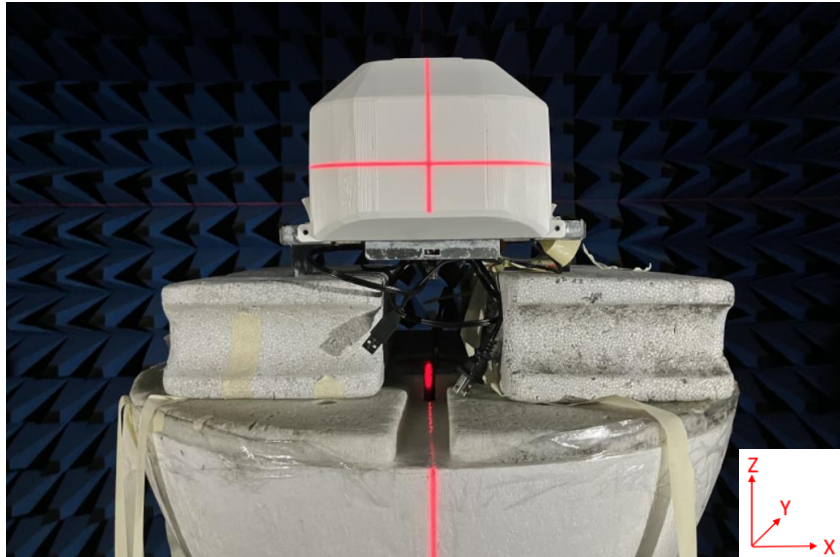
- 1. Brand: Primax
- 2. Model Name : 12-91601CG01
- 3. Manufacture information: Primax
- 4. Test engineer name :Kyle Wang
- 5. Test date:2024.07.24
- 6. Test Equipment : SATIMO Testing System (SG-24L)
- 7. test set up photo/equipment/ measure method



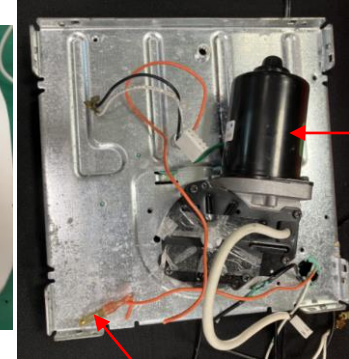
Measurement Information

Test Setup:

1. Test in anechoic chamber(SATIMO Antenna Testing System)
2. Use instrument such as VNA(vector network analyzer),active switching unit , amplification unit, radio communication unit
3. Scan WIFI band test frequency
4. Test VSWR by using Network analyzer
5. The DUT with housing and internal antenna



battery

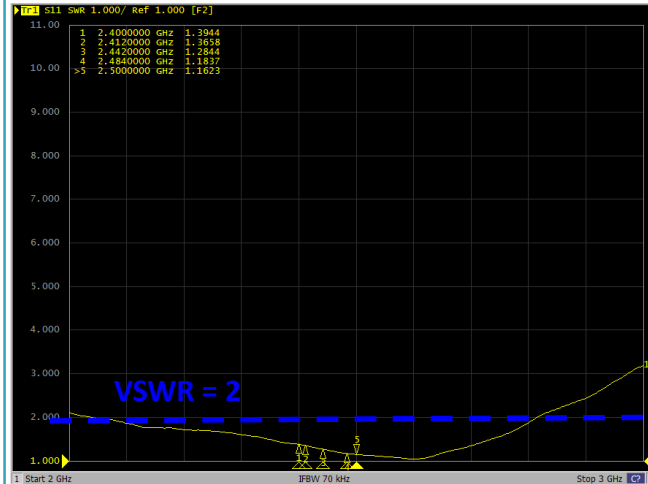


motor

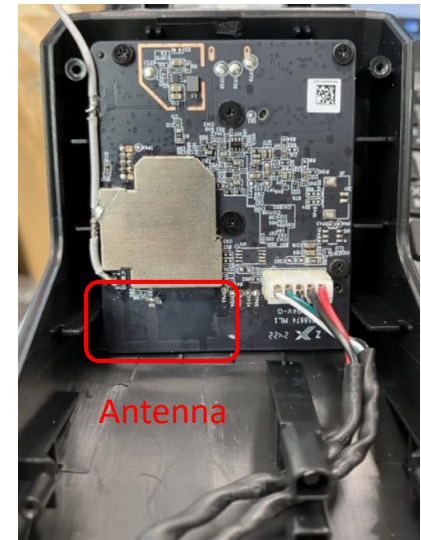
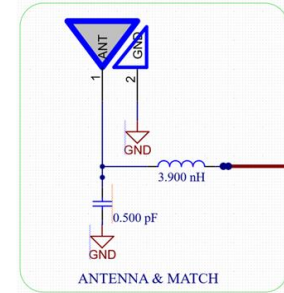
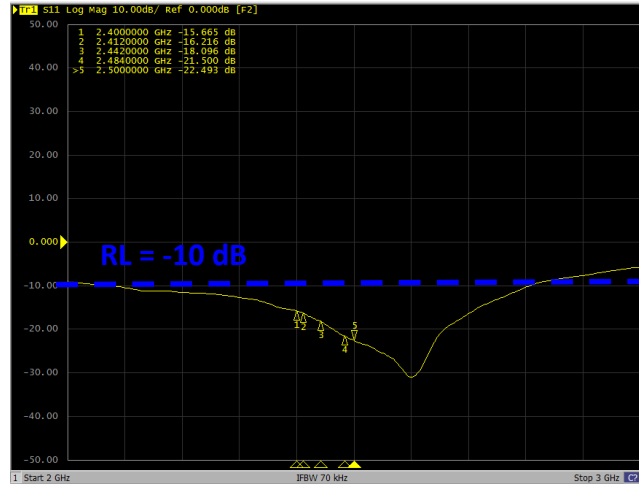
ceiling mount

Performance with 3D print housing(EVT)

VSWR



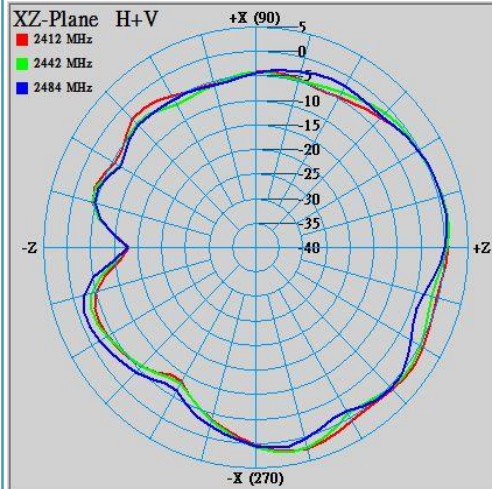
Return Loss



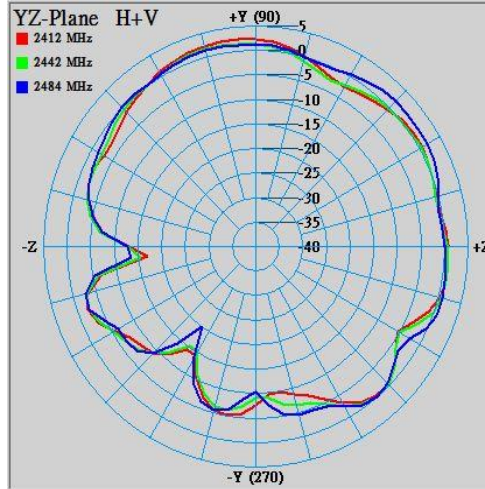
Frequency(MHz)	Efficiency(%)	Peak Gain(dBi)
2412	68.71	3.31
2442	68.87	3.28
2484	71.61	2.97

2D Radiation Patterns with 3D print housing(EVT)

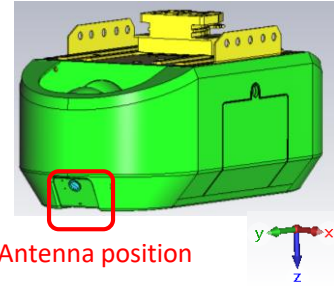
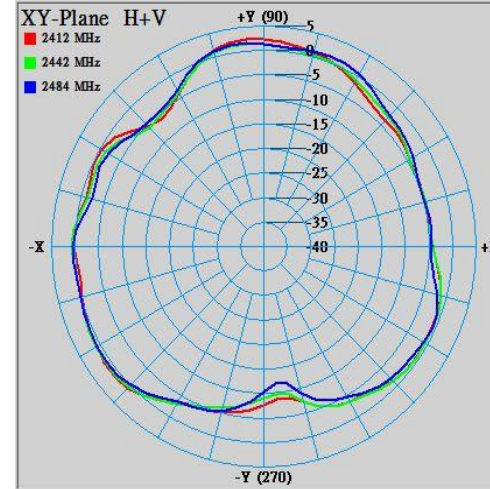
XZ-Plane



YZ-Plane



XY-Plane



3D Radiation Patterns with 3D print housing(EVT)

3D Radiation Patterns

