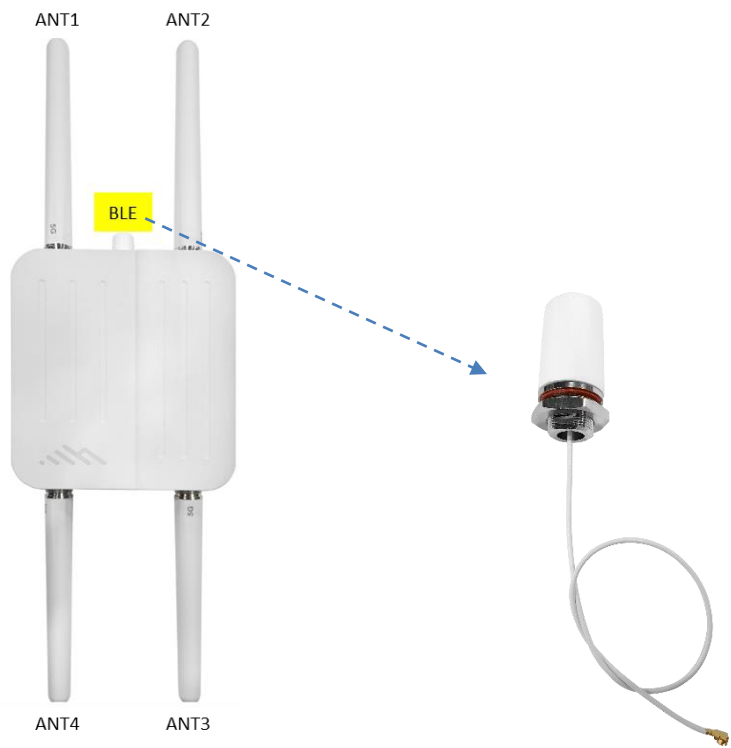


Ma Barker BLE Antenna

2400~2500 MHz

GTT P/N: 1039G00000030 (BLE)

Preliminary



✓ RF Specification

- | | |
|----------------------|------------------|
| • Frequency Range: | 2400~2500MHz |
| • Polarization: | Linear |
| • HPBW / Horizontal: | 360° |
| • HPBW / Vertical: | 60° |
| • Peak Gain: | 2.2-2.3 dBi typ. |
| • VSWR: | 2.0 Max.:1 |
| • Power Handling: | 2W(cw) |
| • Impedance: | 50 Ohms |
| • Connector: | IPEX MHFL I |
| • Jumper Cable | OD 1.32 , 200mm |

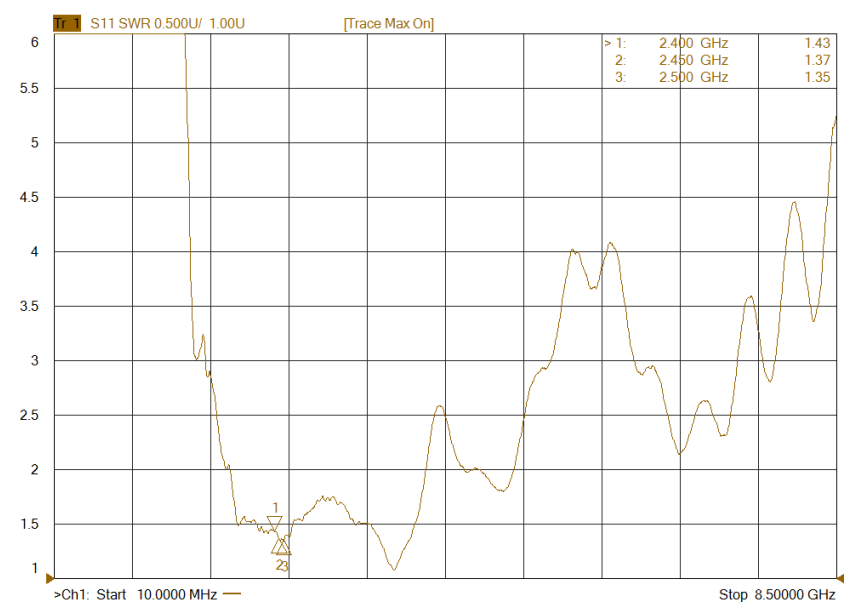
✓ Environmental & Mechanical Characteristics

- Temperature: -40°C to +70°C
- Humidity: 95% @55°C
- Waterproof Rating: IPX7
- Antenna Housing Color: White
- Antenna Housing Material: PC943, UV Resistance
- Dimensions: 30.0mm(L)x17.8mm(OD) (without OD1.32 cable)
- Weight: 27g

Performance Summary

VSWR(Stand Alone)

Frequency(MHz)	2400-2500
VSWR	2.0 max.:1



Gain Table

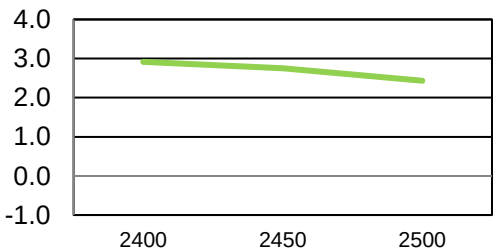
Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
2400	71%	-1.5	2.9
2450	71%	-1.5	2.8
2500	70%	-1.5	2.4

Peak gain

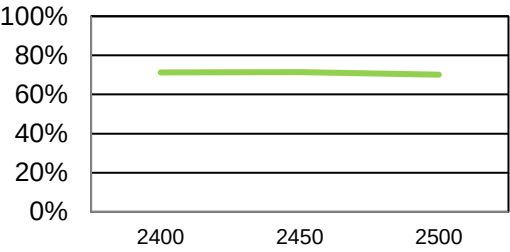
Efficiency

Avg. gain

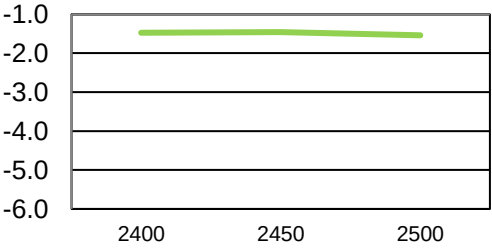
2400MHz~2500MHz



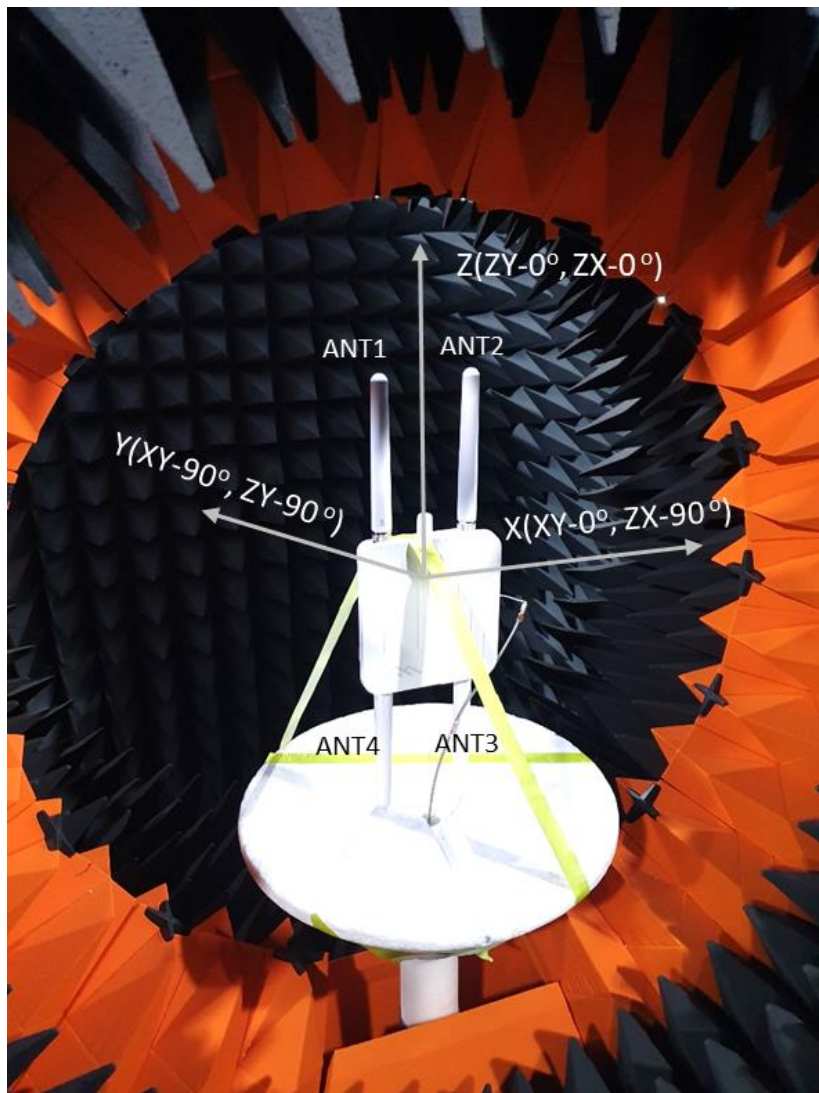
2400MHz~2500MHz



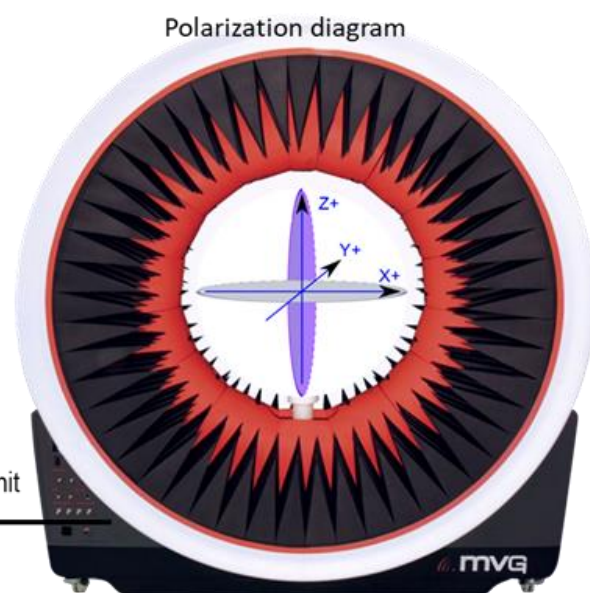
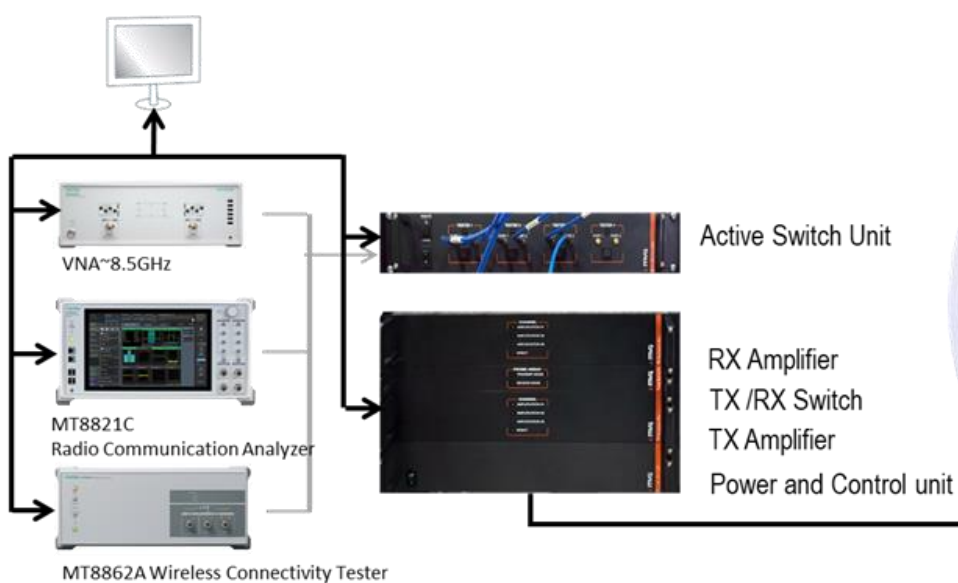
2400MHz~2500MHz



Antenna Testing Setup and Orientation



3D OTA Chamber-SATIMO Starlab® 2019



Radiation Pattern

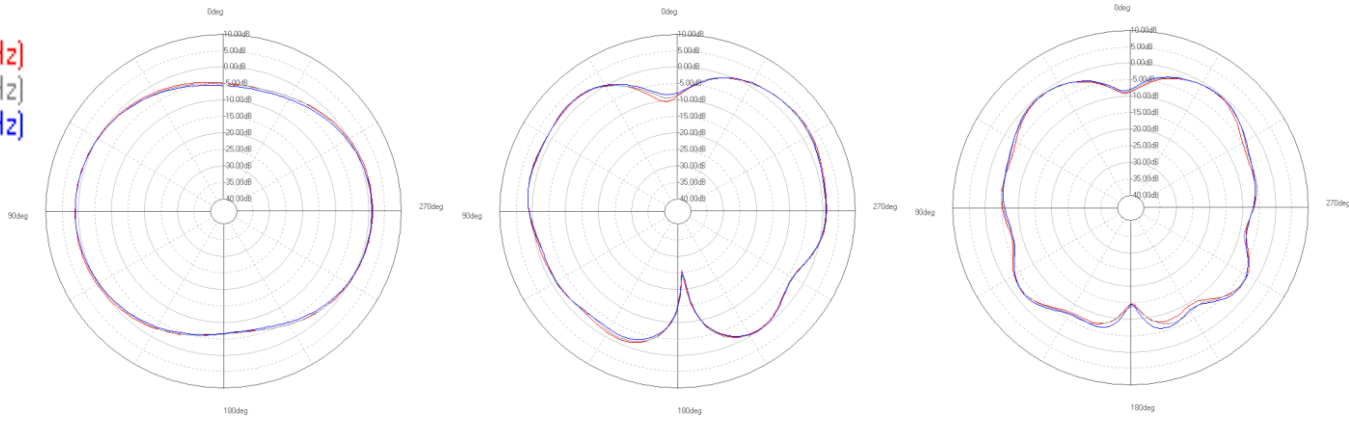
XY-plane

YZ-plane

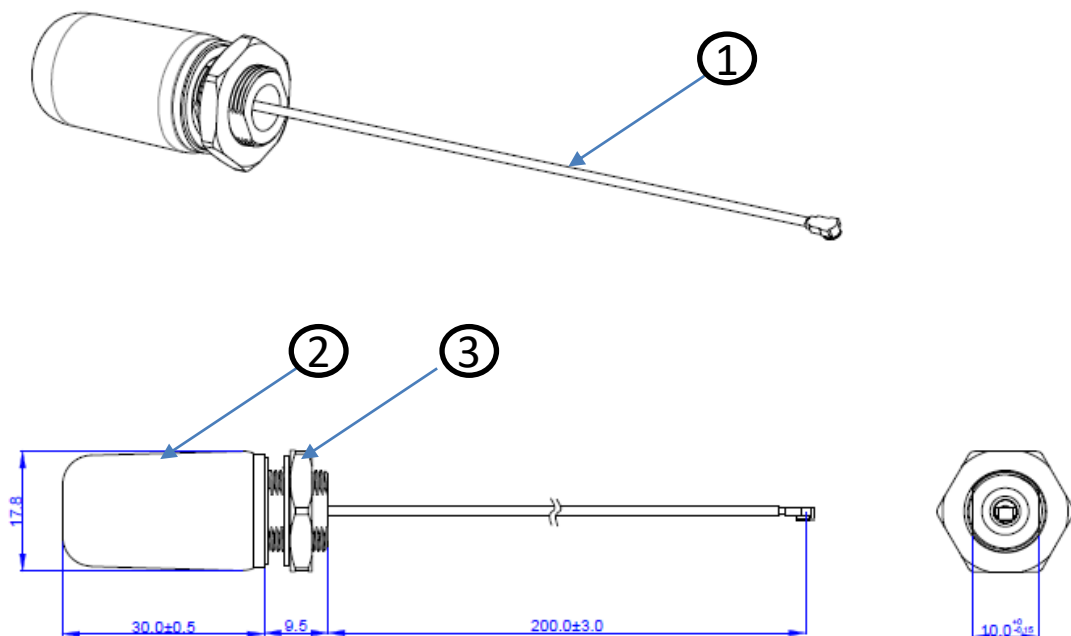
ZX-plane

Legend

— 2400.00(MHz)
— 2450.00(MHz)
— 2500.00(MHz)



Dimension(unit: mm)



1. MHF I R/A PLUG TO $\Phi 1.32$, White
2. M12 Tube, PC 943, TOP Cover
3. Fittings, CNC, For OD1.32