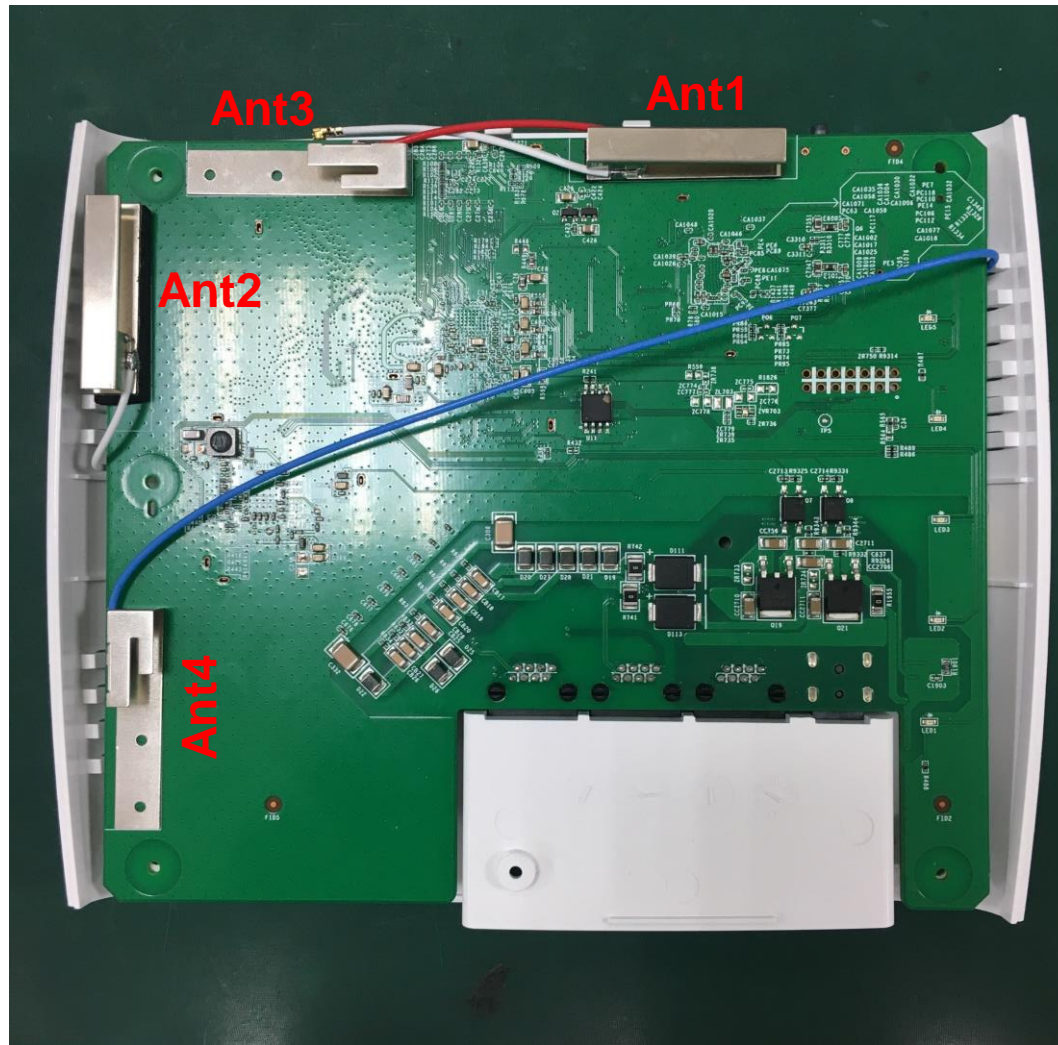


LCA-C and LCA-F EVT antenna

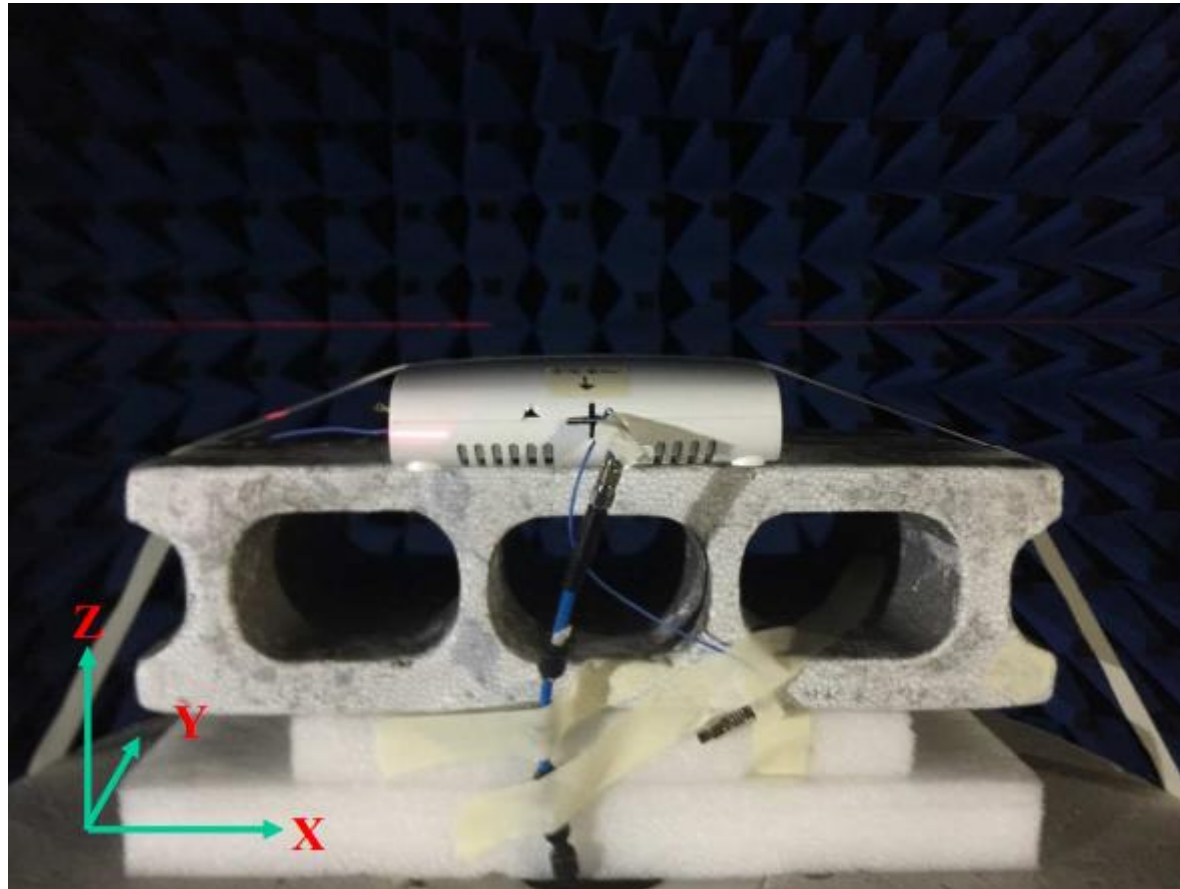
2019/12/17

John Hsieh

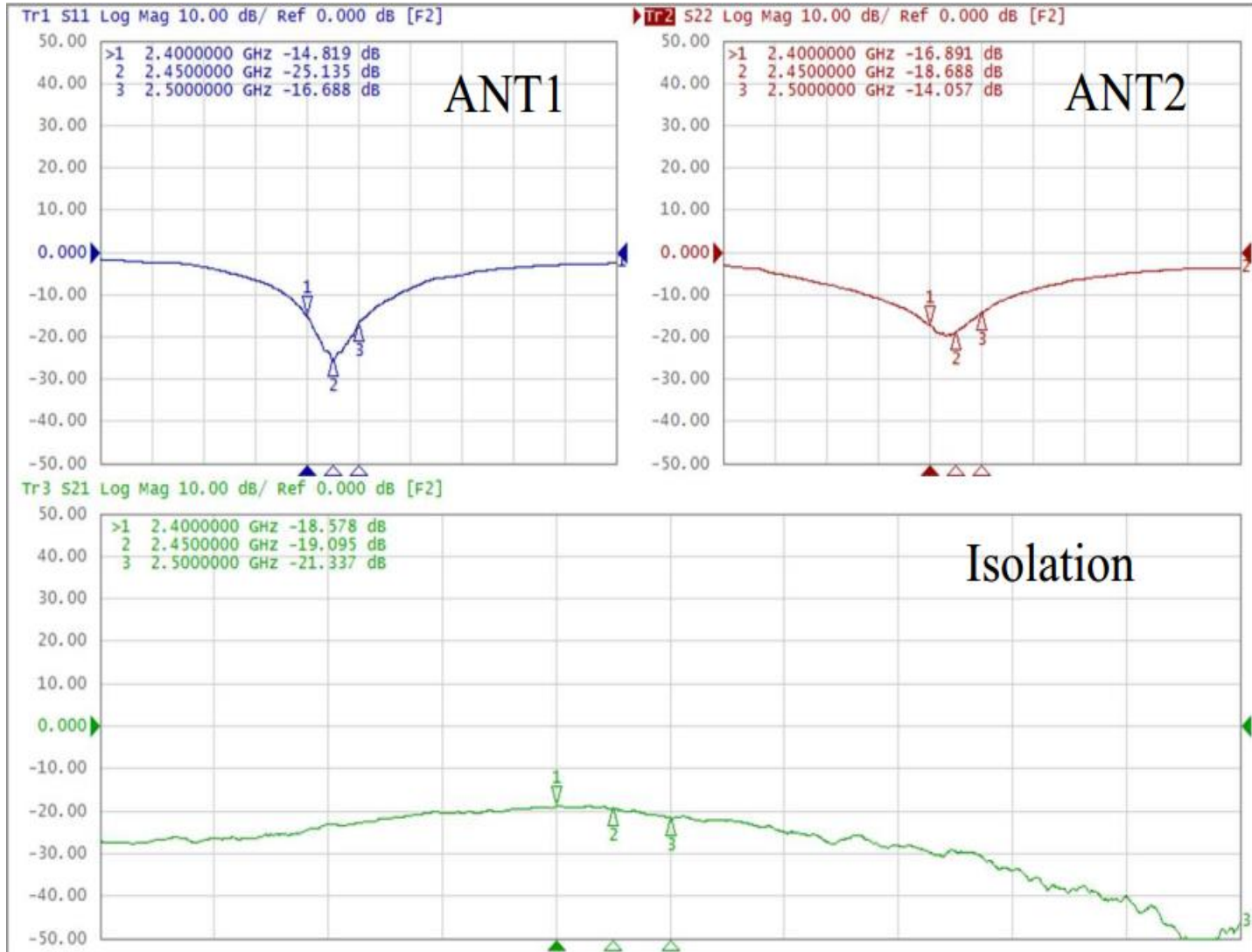
Antenna Placement and Coordinate



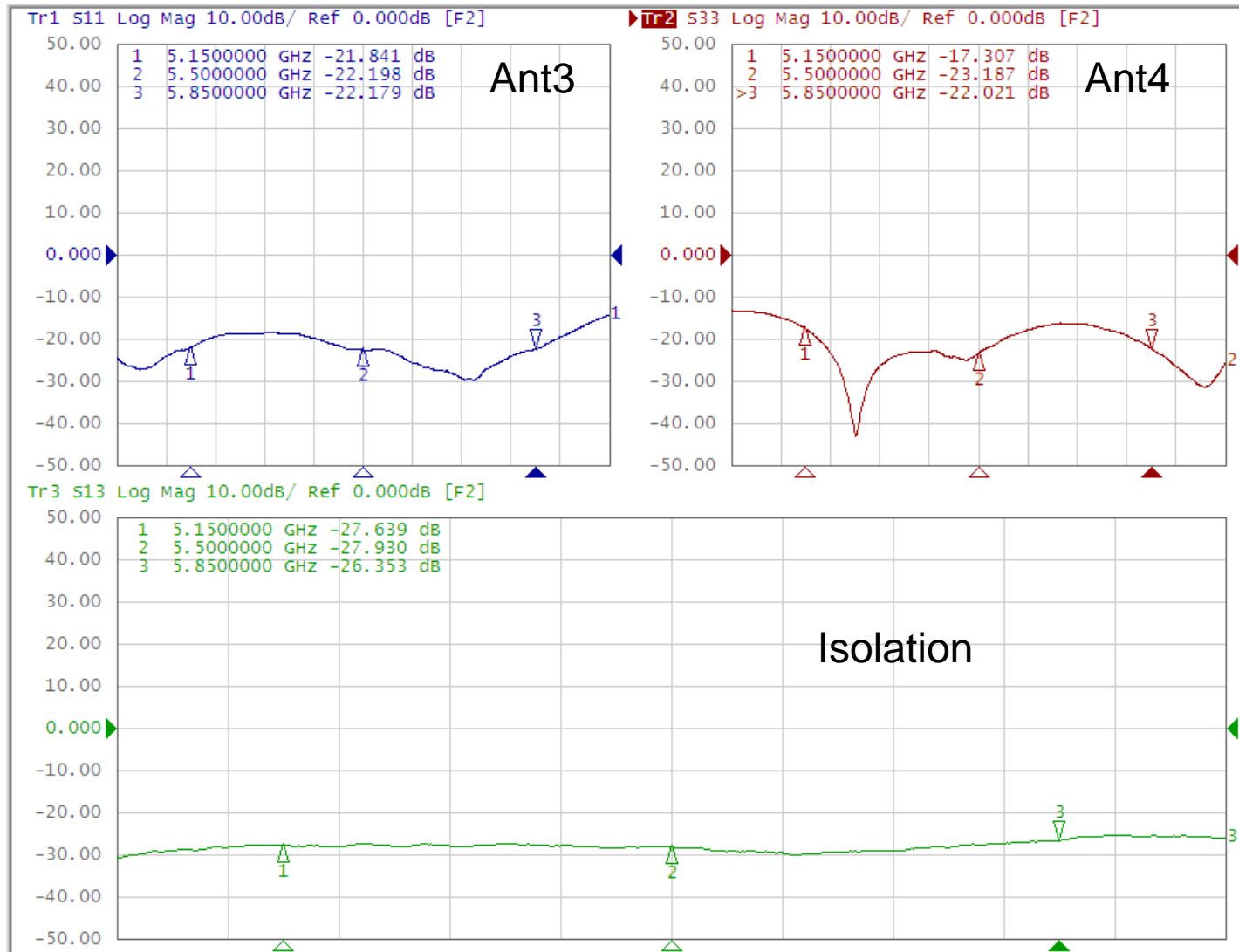
Experimental Setup



2G Antenna S-parameter



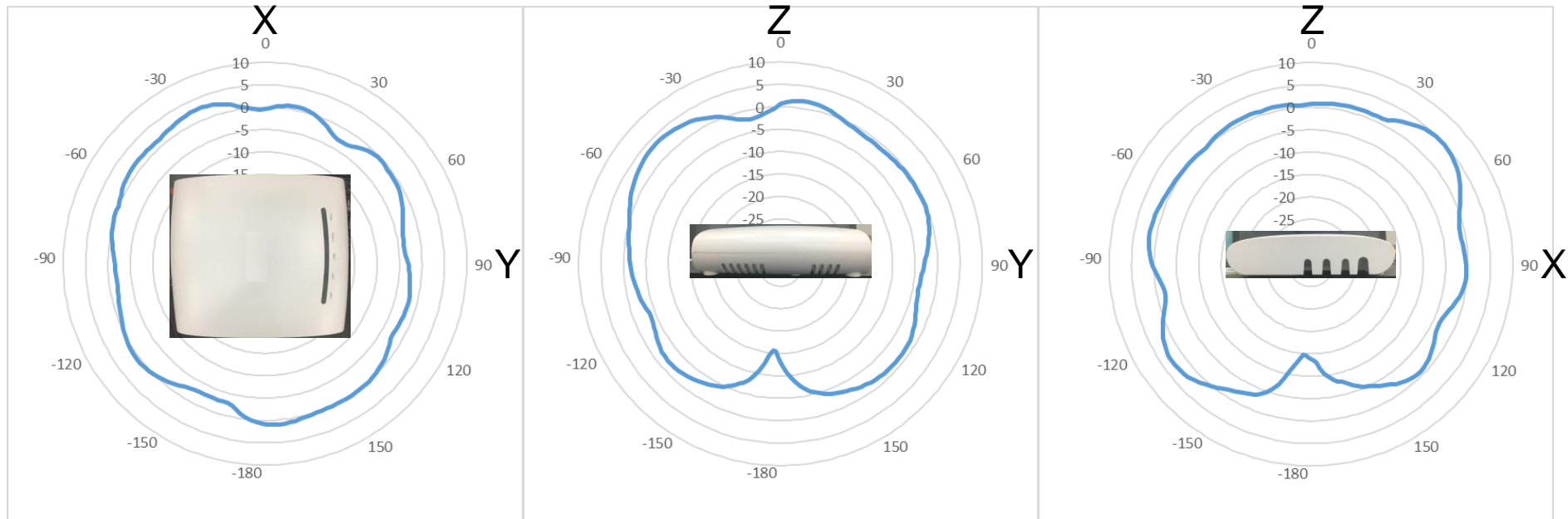
5G Antenna S-parameter



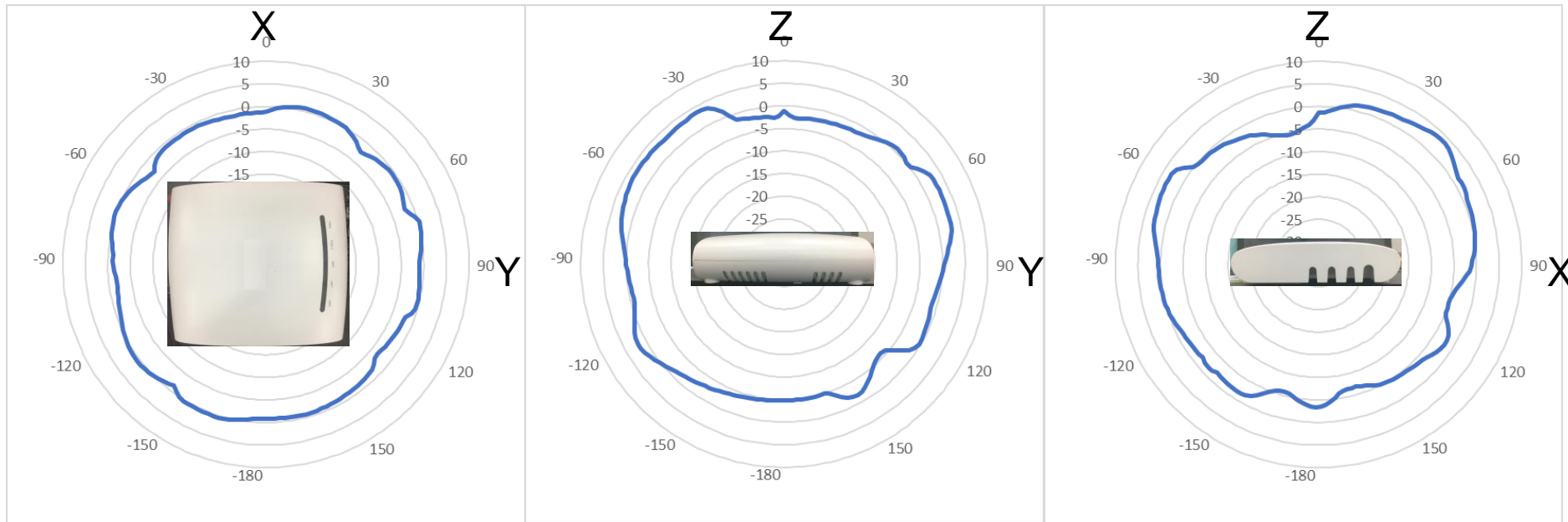
Antenna Gain and Eff.

Ant#	2G1	2G2	5G1	5G2
Peak Gain	4.6dBi	5.3dBi	4.5dBi	4.7dBi
Efficiency	72%	70%	71%	74%

2G Antenna aggregate pattern



5G Antenna aggregate pattern



Summary

- **Antenna gain is higher than 4.5dBi, radiation efficiency is above 70%**
- **Antenna gain pattern is omni-directional in azimuth plane (see Page.7 and Page.8 XY Plane), the pattern is suitable for indoor access point , place on table or client mount.**