



Wanda Antenna Test Report



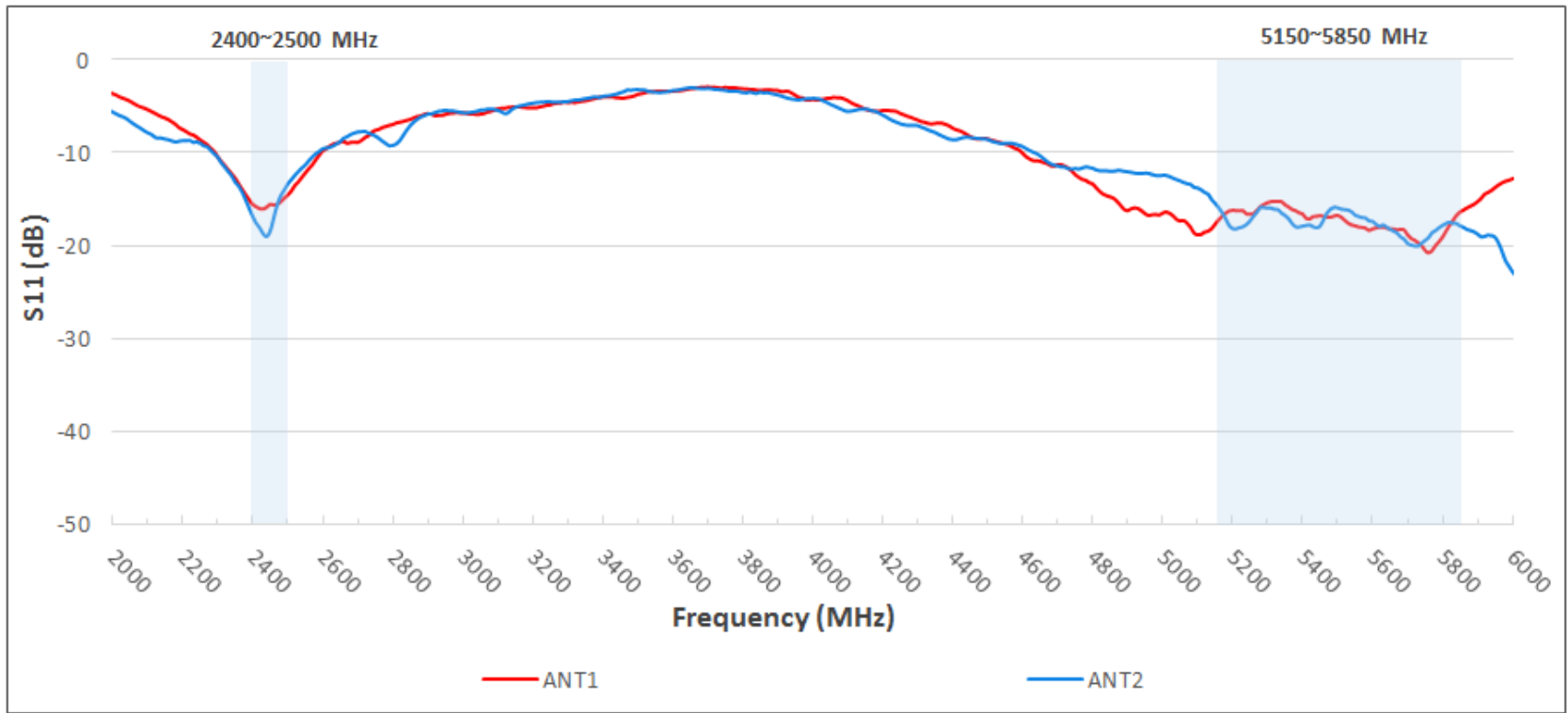
Senao Networks, Inc.

Customer	Meraki
Project	Wanda
Project Description	2/5G antenna*2
Date	2022/09/16
Prepared by	Tony
Report Version	A02

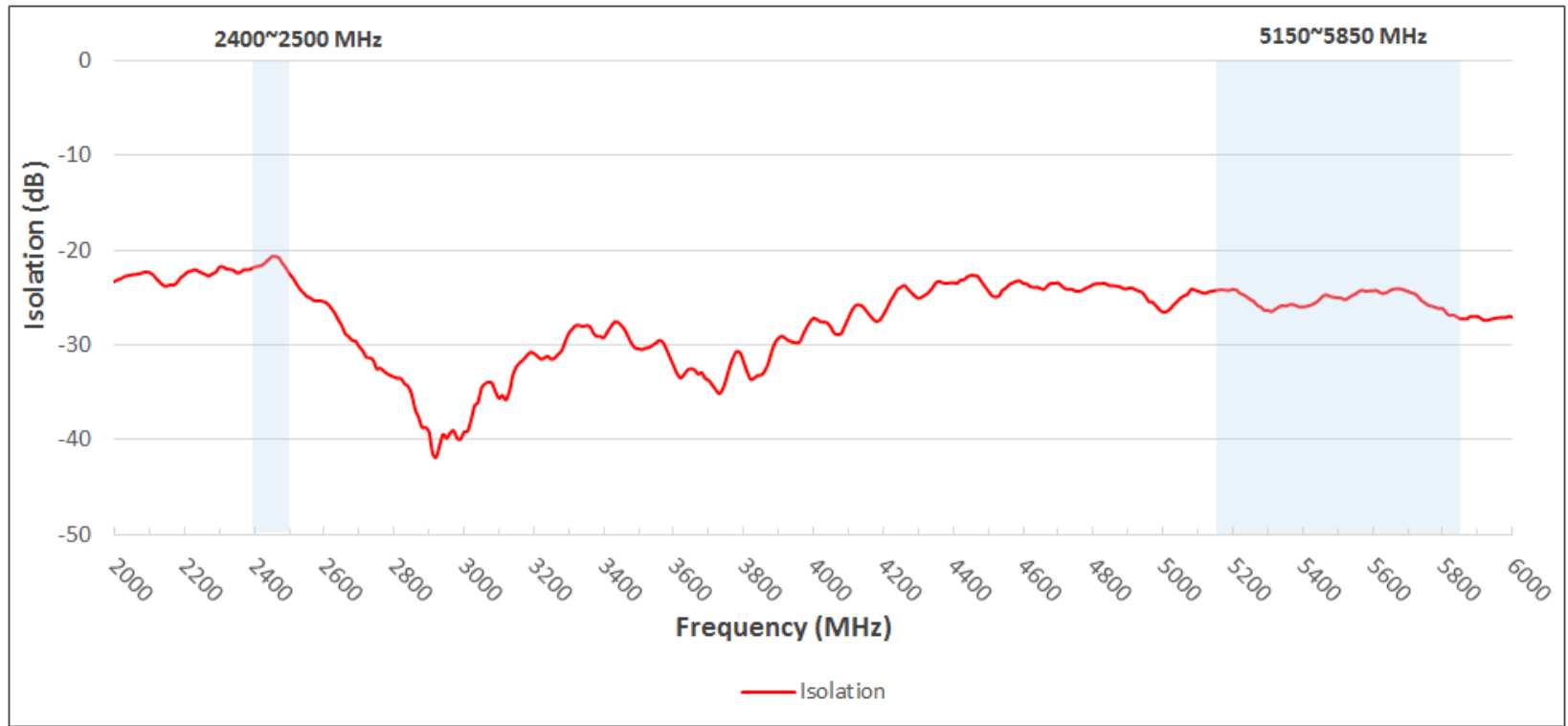
- **Agenda**
 - Placement and Specification
 - S11 & Isolation
 - Radiation Pattern
 - Combine Pattern
 - Efficiency and Gain
 - Conclusions



Ant No.	Brand Name	Model Name	Operating Band	Gain (dBi)	Efficiency (%)	Ant Type	Material	Feeding
Ant1	SENAO	5718A0720300	2400MHz ~ 2500 MHz	4.47@2G 5.16@5G	80.32@2G 83.93@5G	PIFA	Metal	Cable
Ant2	SENAO	5718A0721300	5150MHz ~ 5850 MHz	3.85@2G 5.28@5G	78.92@2G 82.44@5G	PIFA	Metal	Cable

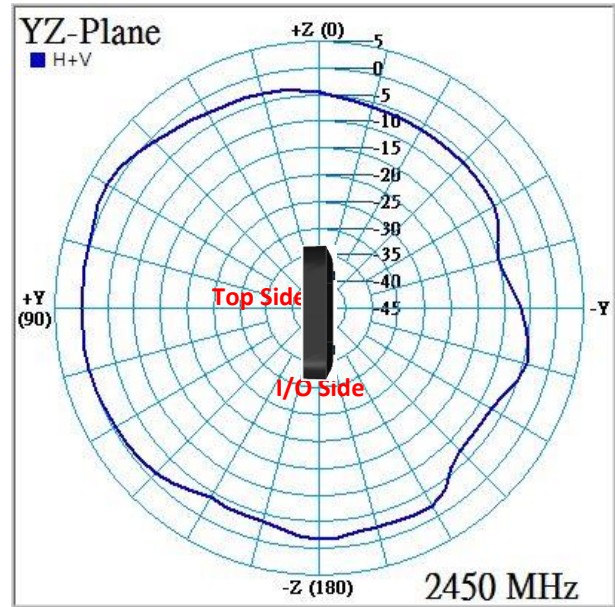
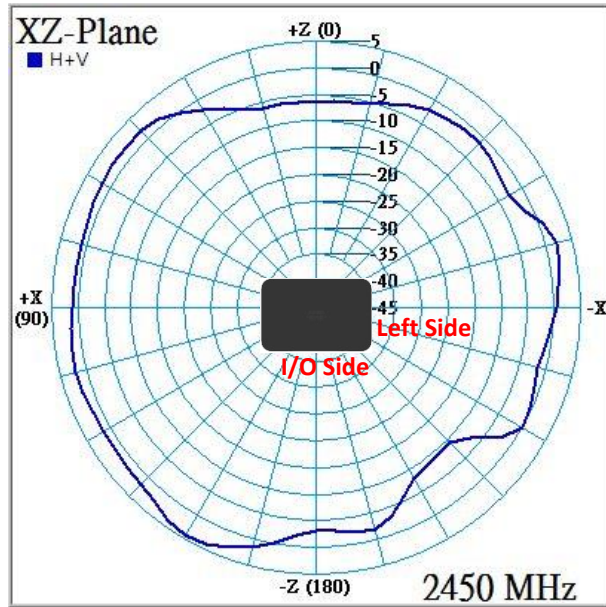
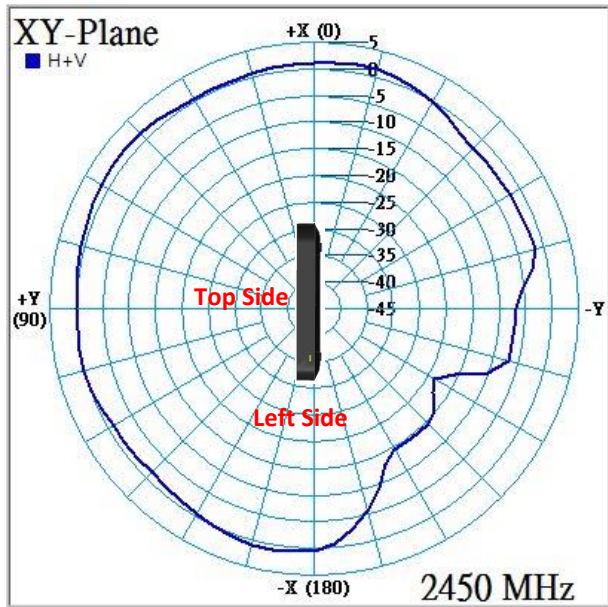
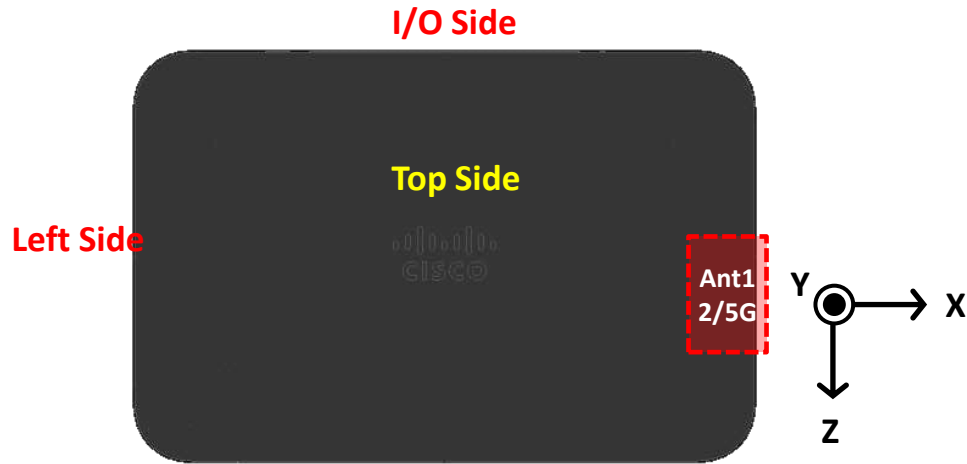


Antenna S11		
Freq. (MHz)	ANT1	ANT2
2400	-15.60	-16.90
2450	-15.56	-18.39
2500	-14.56	-13.38
5150	-17.70	-15.45
5550	-17.86	-16.72
5850	-16.38	-17.88

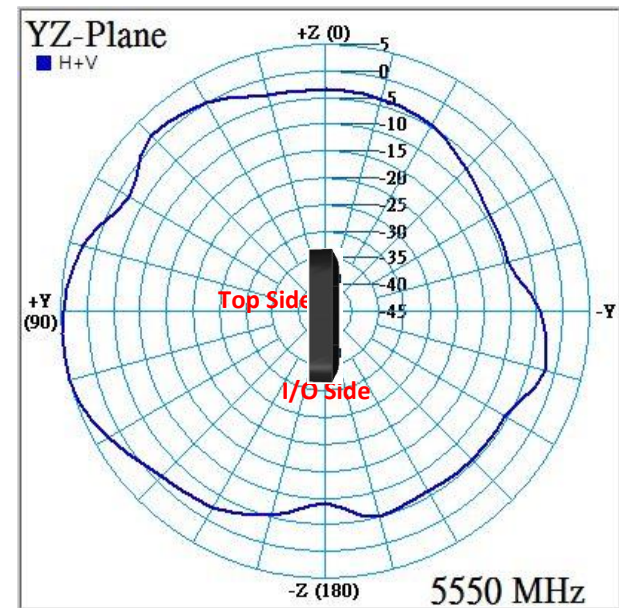
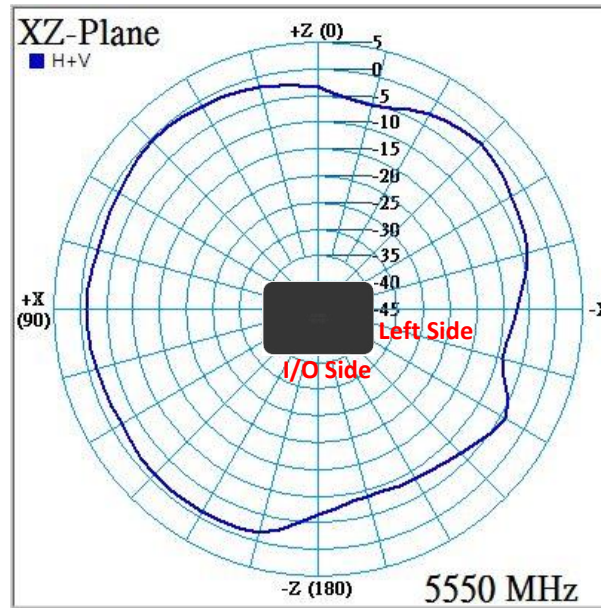
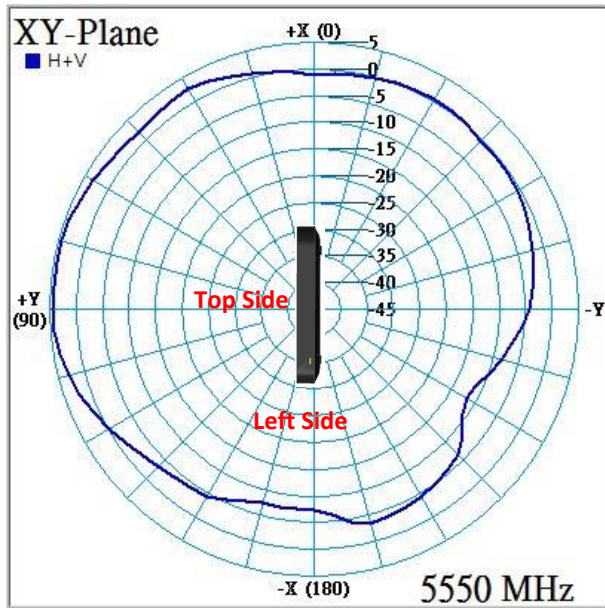
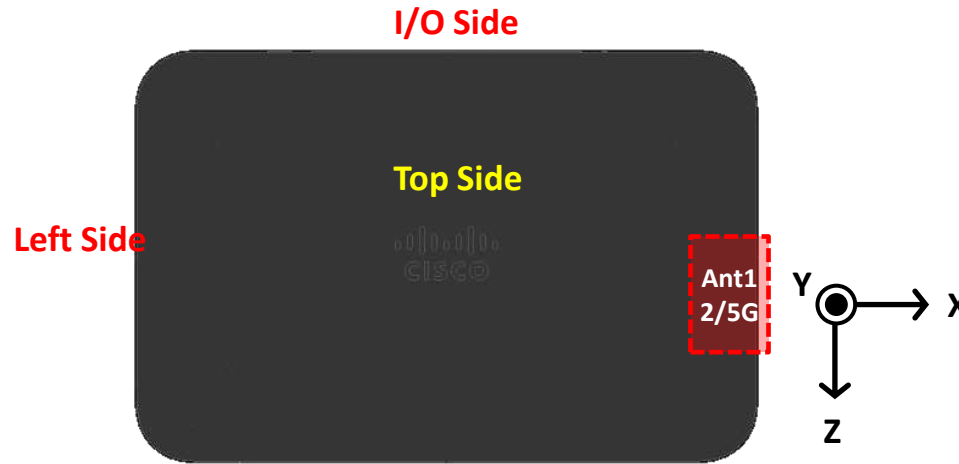


Isolation	
Freq. (MHz)	ANT1- ANT2
2400	-21.80
2450	-20.70
2500	-22.48
5150	-24.28
5550	-24.65
5850	-27.25

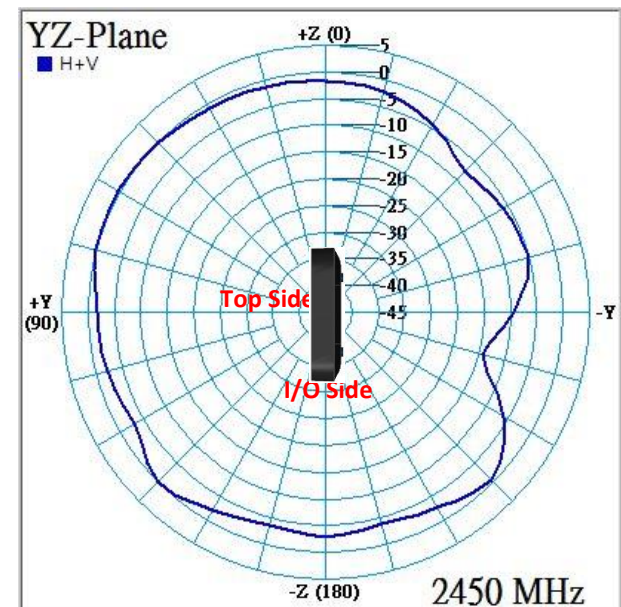
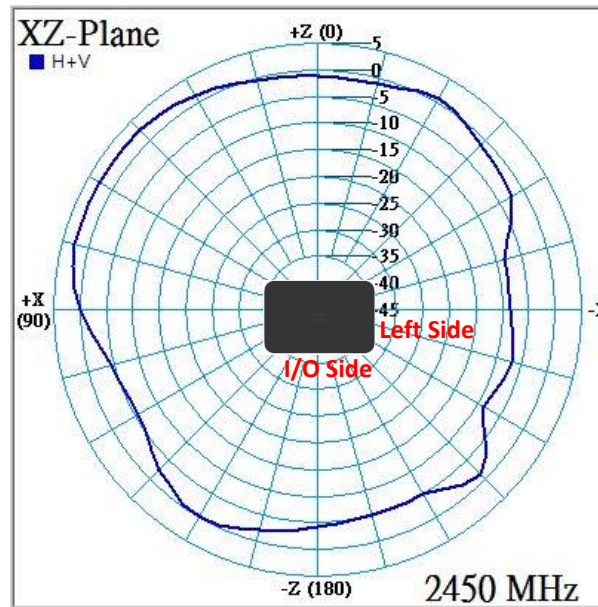
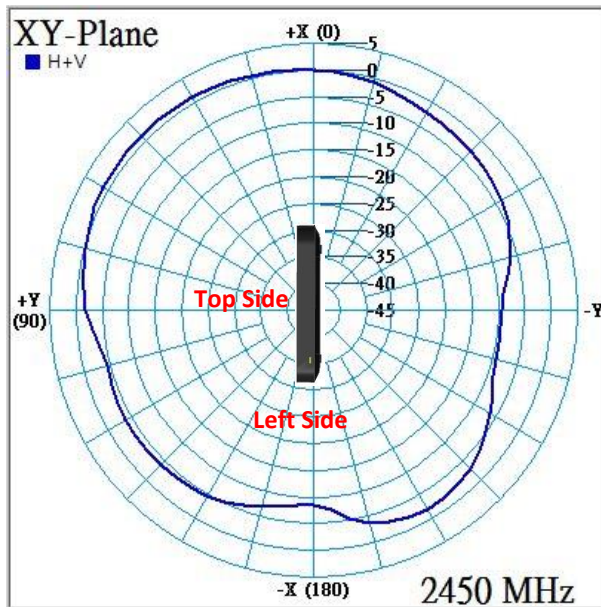
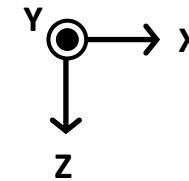
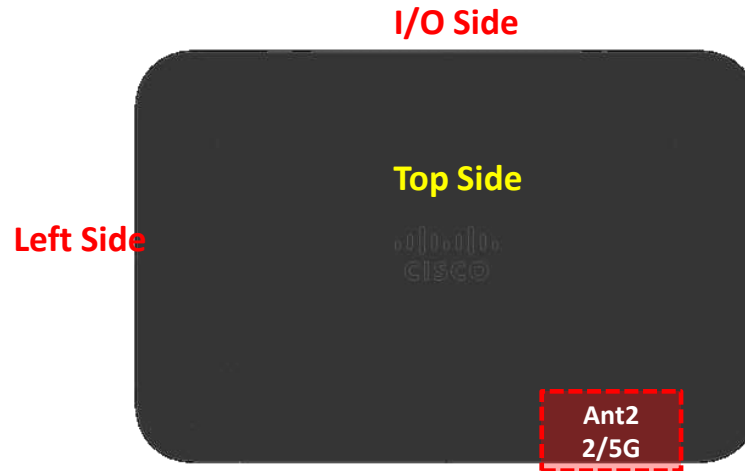
2D Radiation Pattern – ANT1 @ 2.45GHz



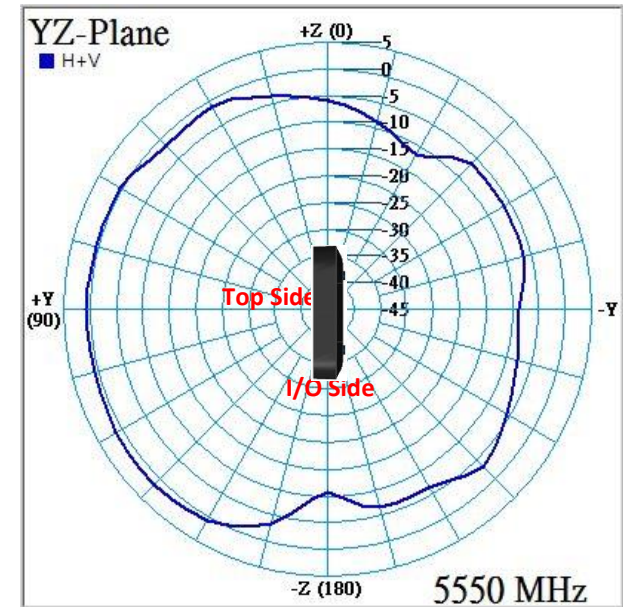
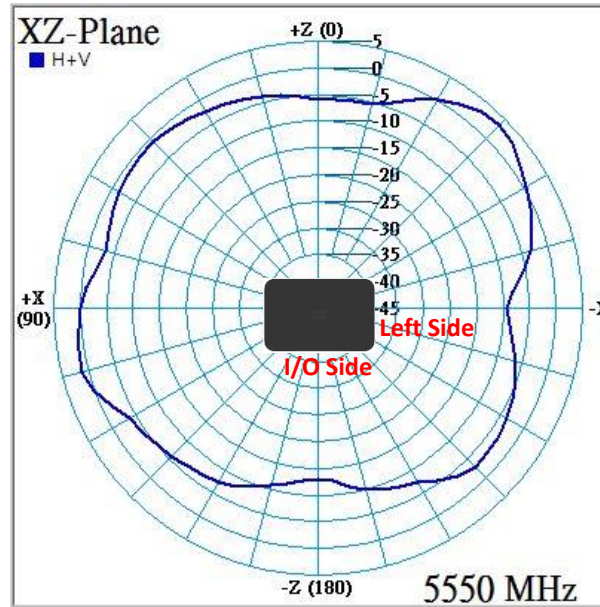
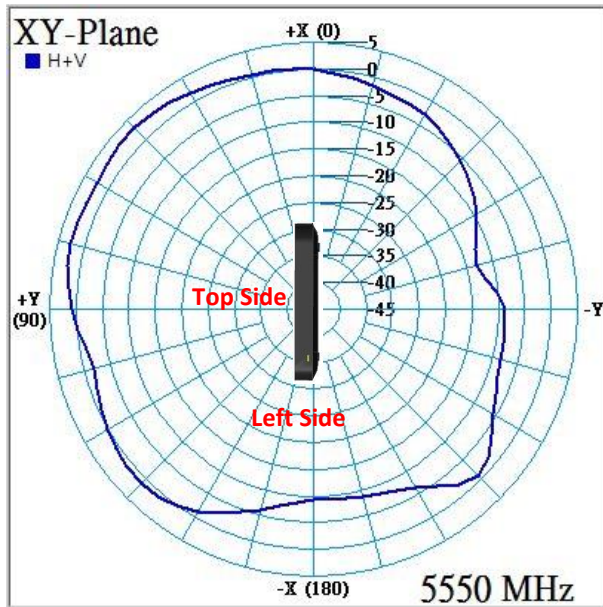
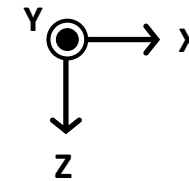
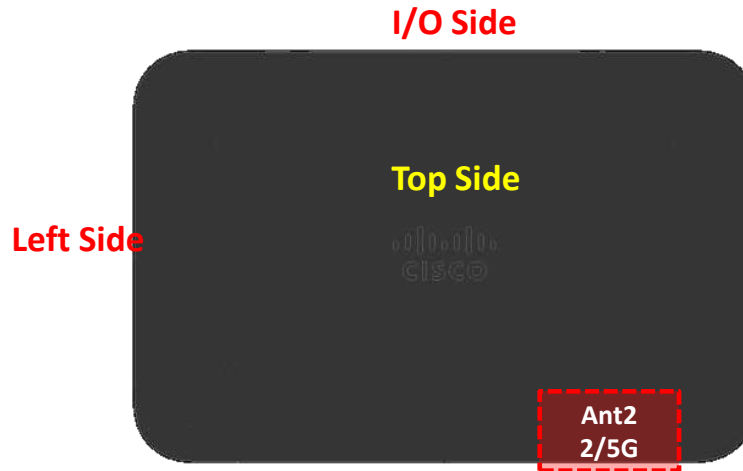
2D Radiation Pattern – ANT1 @ 5.55GHz



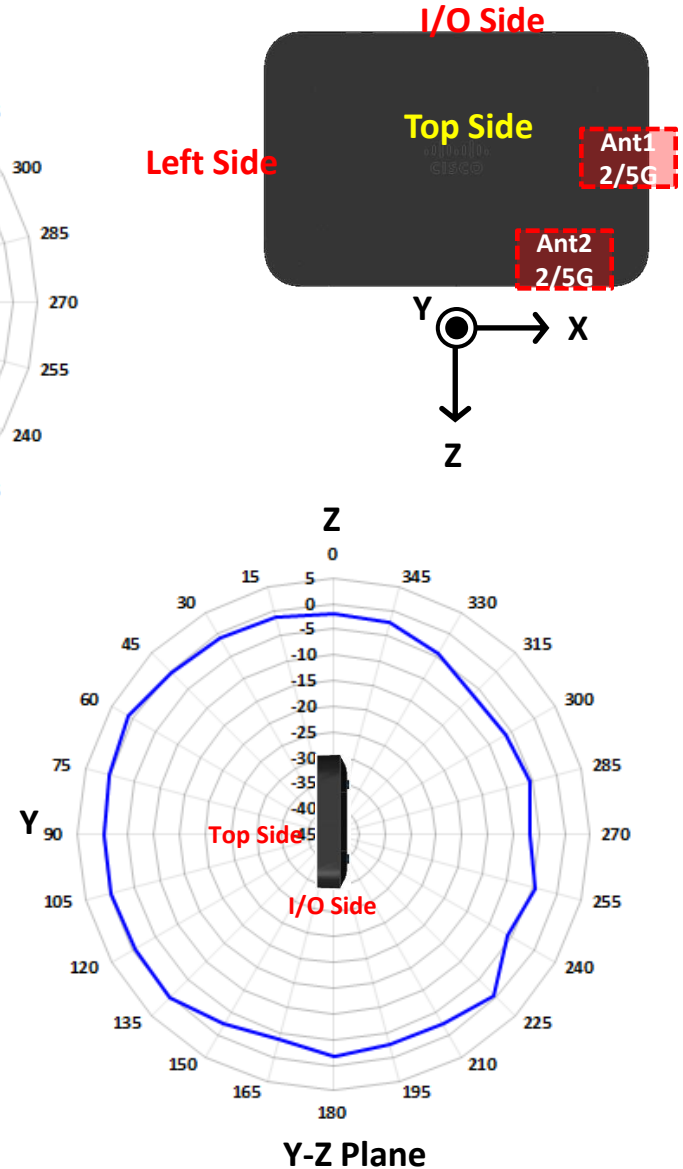
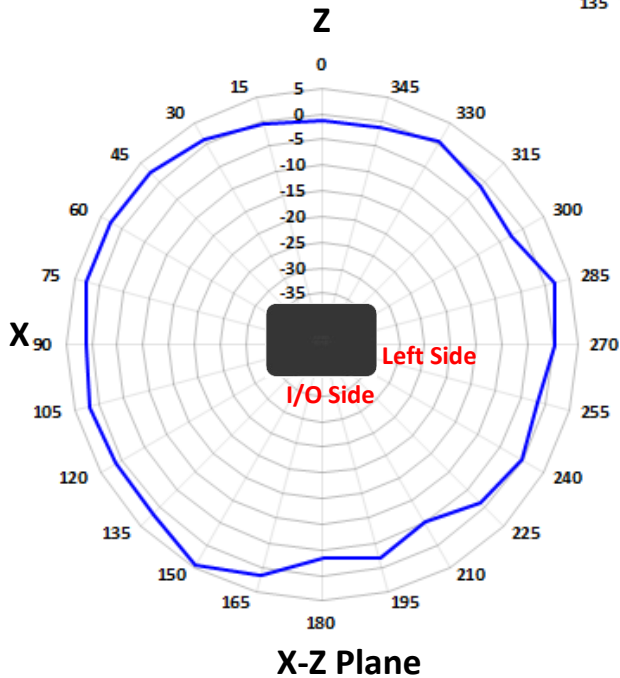
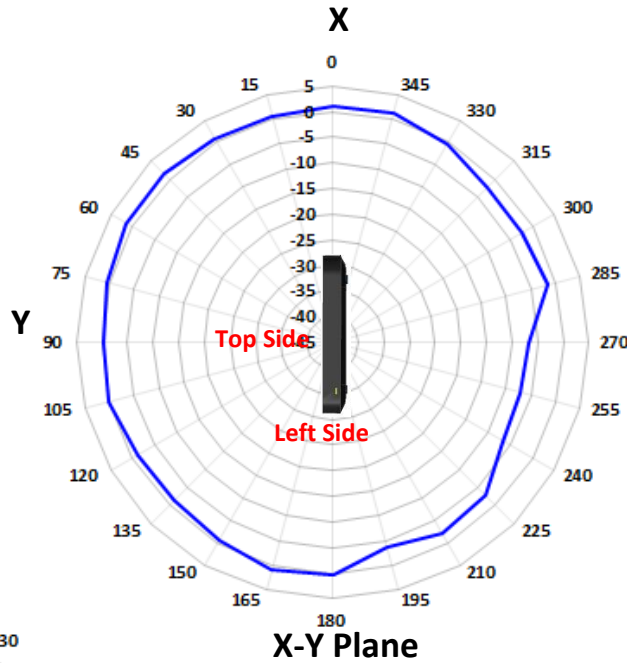
2D Radiation Pattern – ANT2 @ 2.45GHz



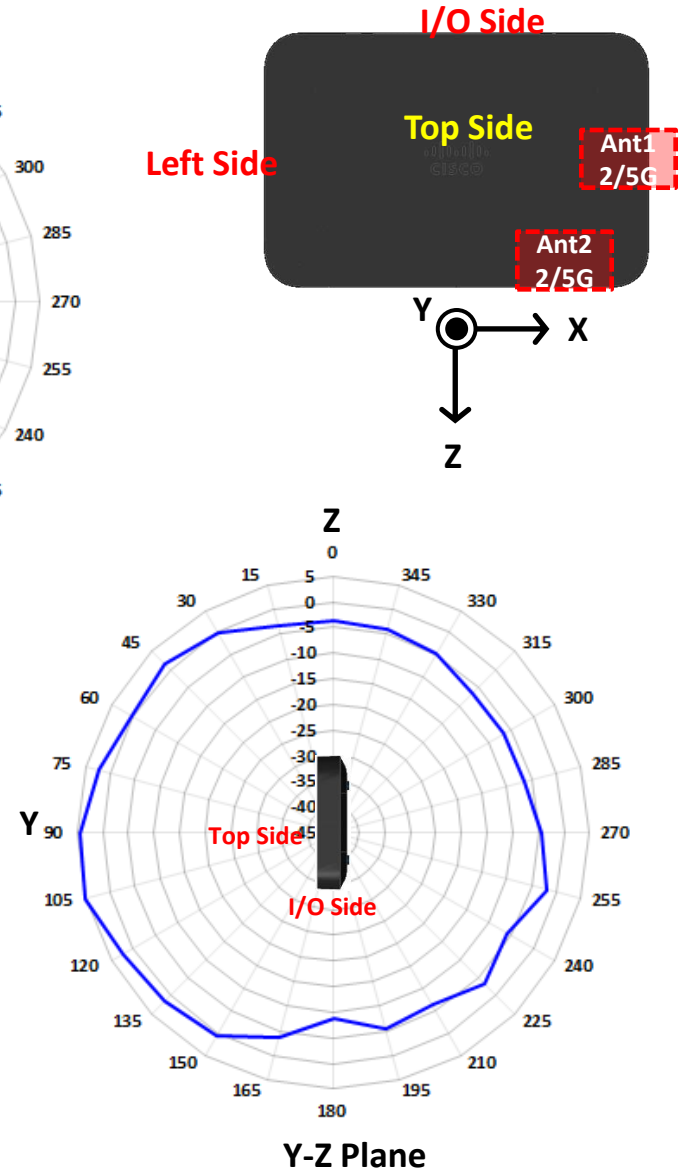
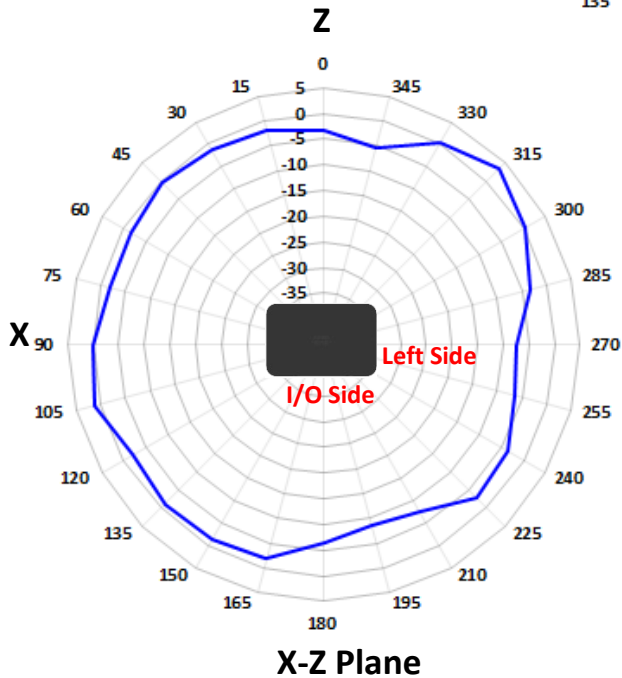
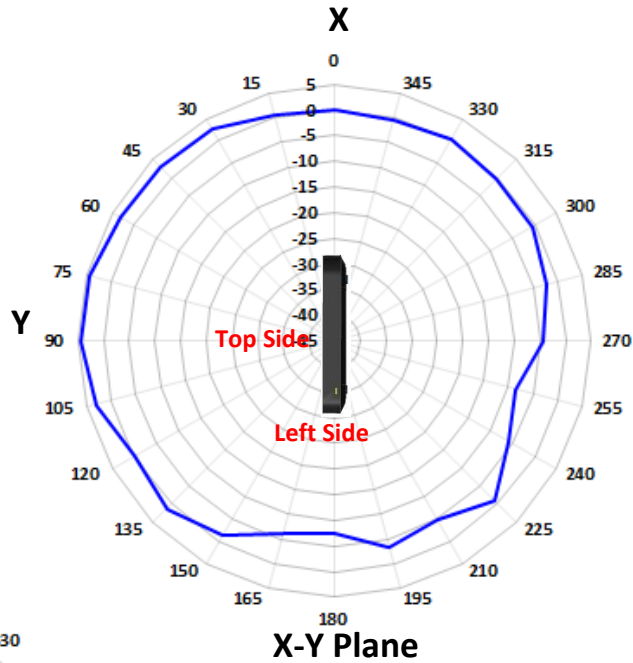
2D Radiation Pattern – ANT2 @ 5.55GHz



Combine pattern – 2.45 GHz



Combine pattern – 5.55 GHz



Antenna Efficiency and Gain				
Freq. (MHz)	ANT 1		ANT 2	
	Efficiency (%)	Peak Gain (dBi)	Efficiency (%)	Peak Gain (dBi)
2400	79.50	4.43	77.09	3.69
2450	80.32	4.44	78.92	3.85
2500	77.47	4.47	75.67	3.74
5150	83.93	5.16	81.53	5.27
5550	83.55	4.81	82.44	5.28
5850	79.42	4.29	77.16	4.72