



# A60 Antenna Testing Report

Senao Networks, Inc.

Customer	OM		
Project	A60		
Product Description	1. 2.4 GHz / 5 GHz Dual Band Antenna *3		
Report Date	2016/08/31	Prepare by	Tennyson
Report Version	A01	Checked by	Mark
Request Form No.	-	Approved by	Mark



# Revision History

Revision	Description	Date
A01	1. Antenna V0.1 testing performance [mount on Mainboard V0.1]	2016/08/31

# 2016.08.31 Update

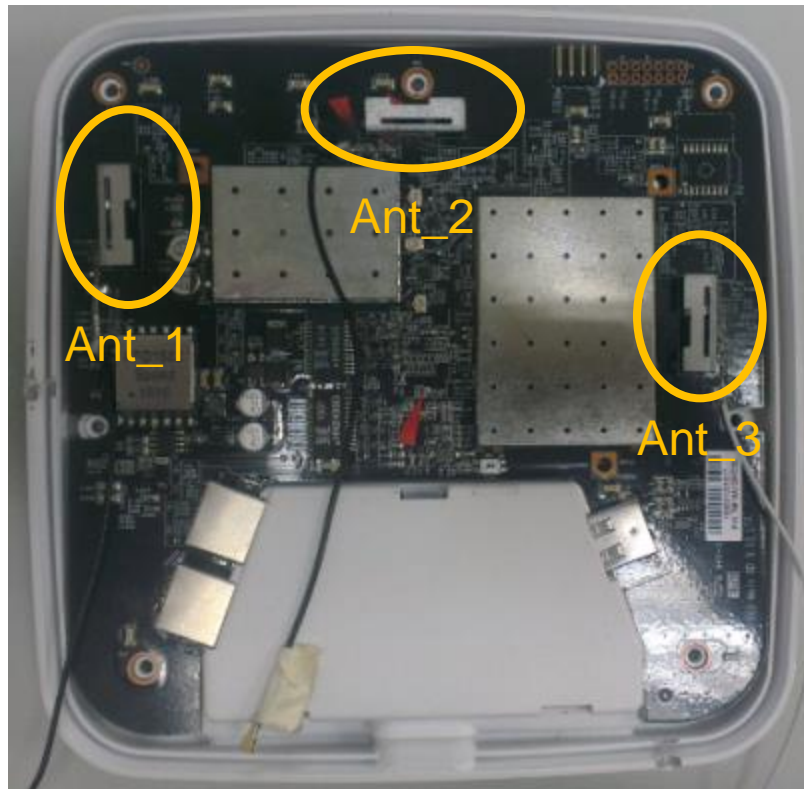
## Purpose:

This report is to show the test results of antennas for A60 project.

## Contents:

1. Antenna information
2. Test Results
  - S11[VSWR]
  - Isolation
  - Gain Pattern

# Antenna Information

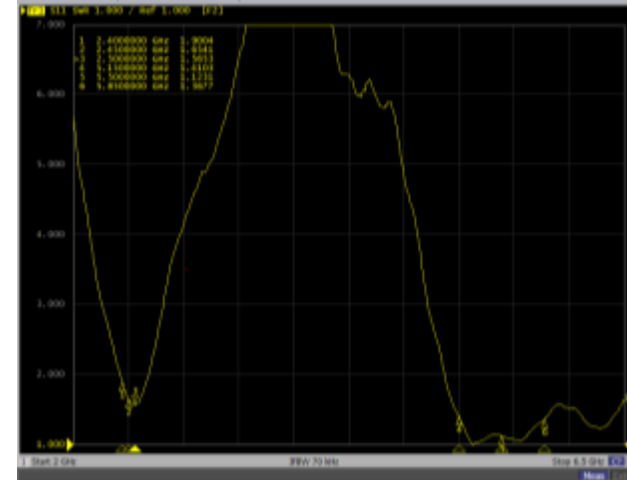
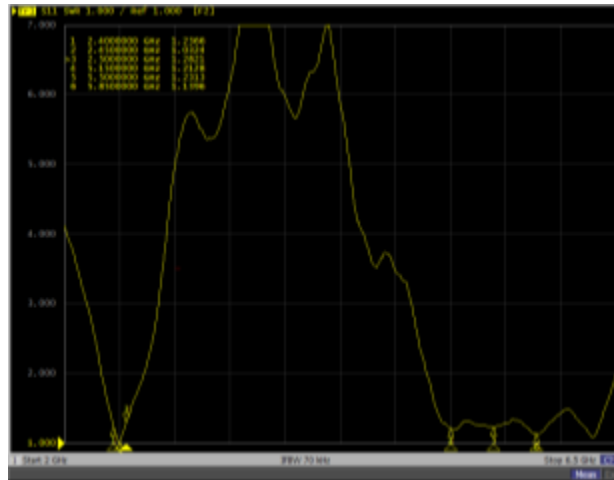
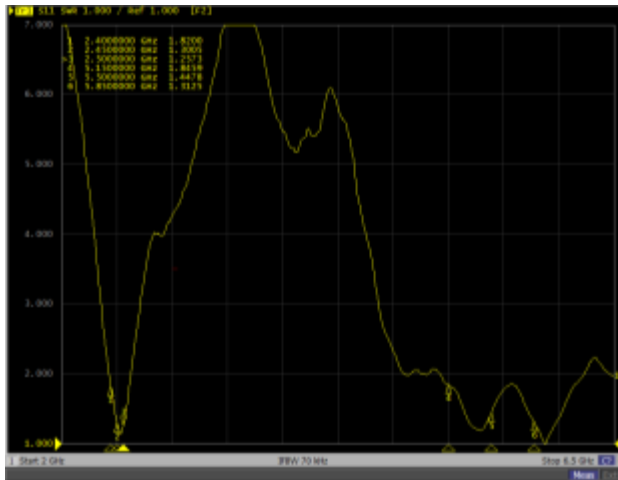


Frequency (MHz)	2400 ~ 2500			5150 ~ 5850		
Antenna No.	1	2	3	1	2	3
Peak Gain (dBi)	3.0	4.1	3.3	5.1	4.7	4.8
Return loss(VSWR)	<2					
Isolation (dB)	<-20					
Dimension (mm)	21.7*7.2*7mm					

Ant\_1

Ant\_2

Ant\_3

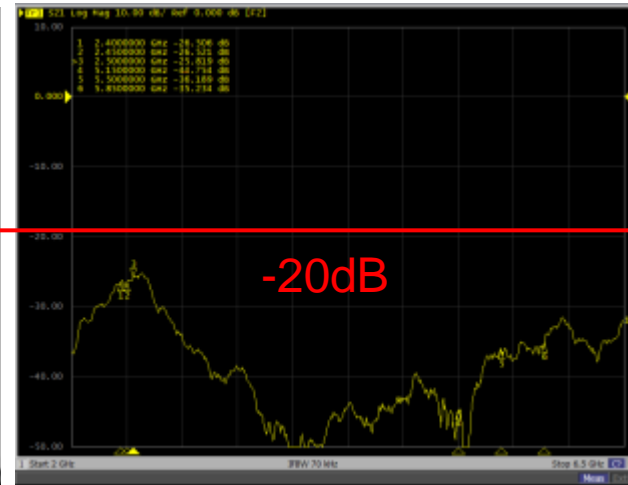
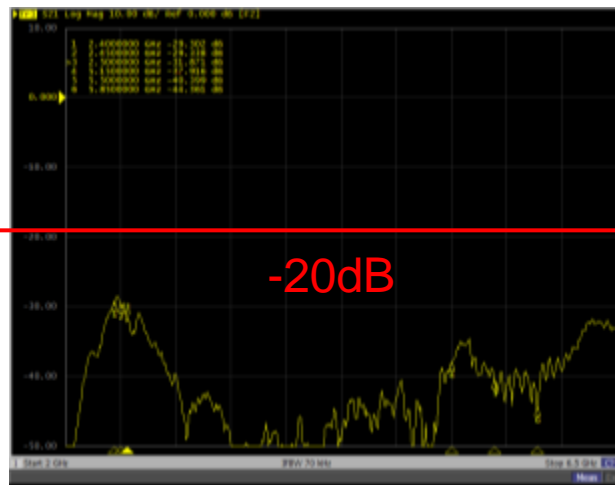


Frequency (MHz)	2400	2450	2500	5150	5550	5850
Ant_1(dB)	1.8	1.3	1.2	1.8	1.4	1.3
Ant_2(dB)	1.2	1.1	1.2	1.2	1.2	1.1
Ant_3(dB)	1.9	1.6	1.5	1.4	1.2	1.3

Ant\_1

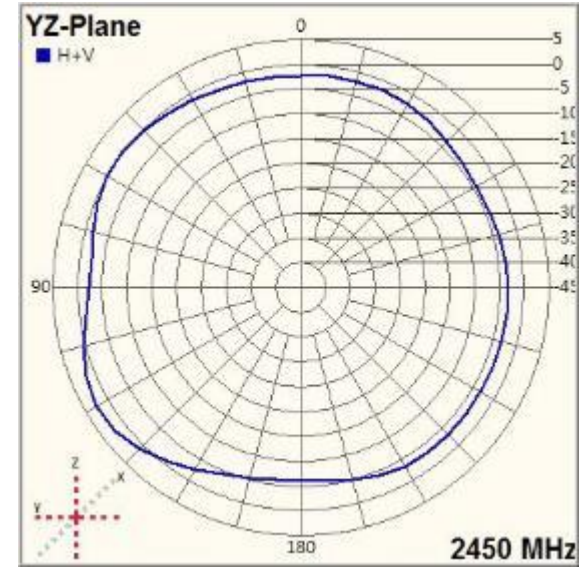
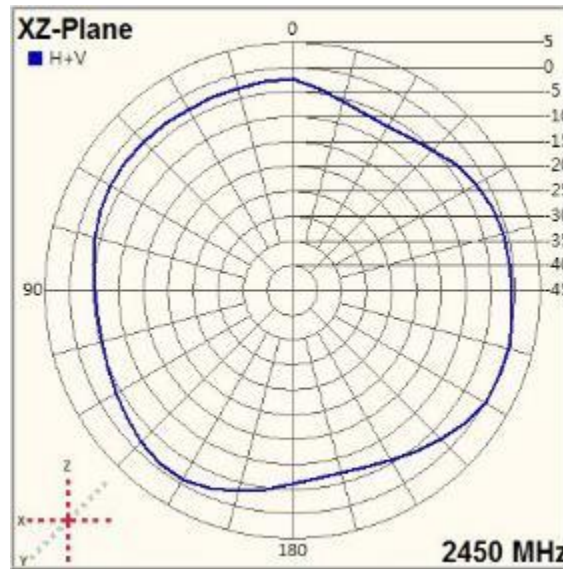
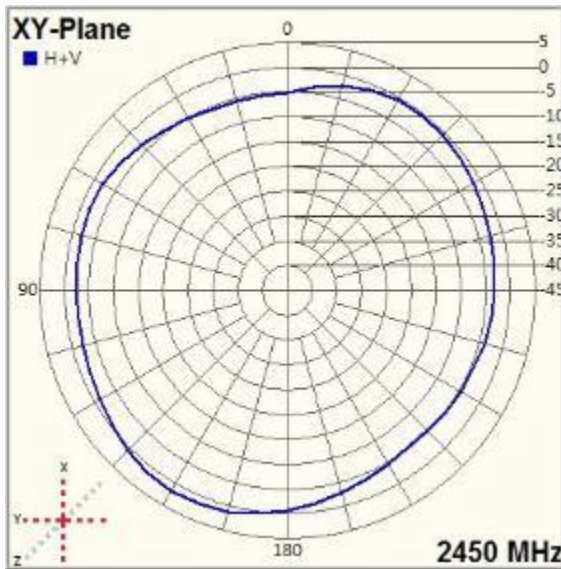
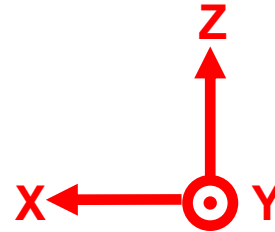
Ant\_2

Ant\_3



Isolation < -20dB

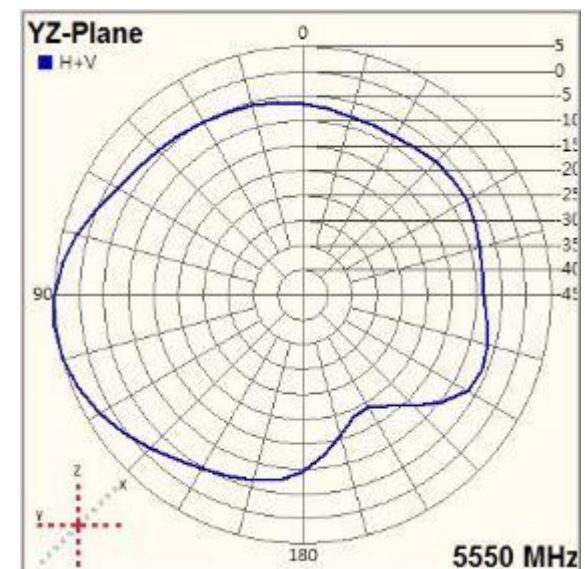
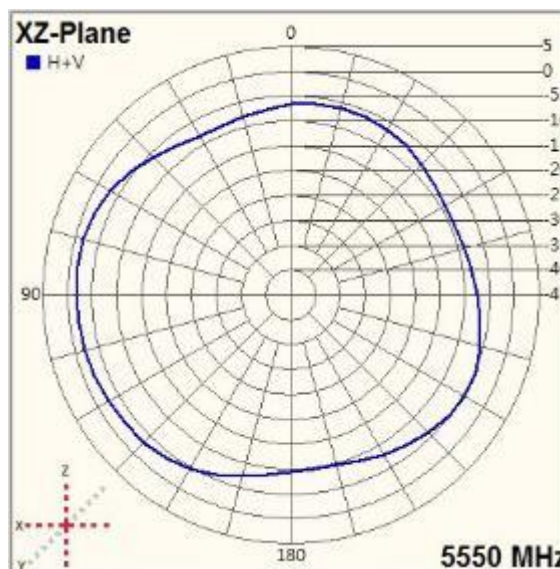
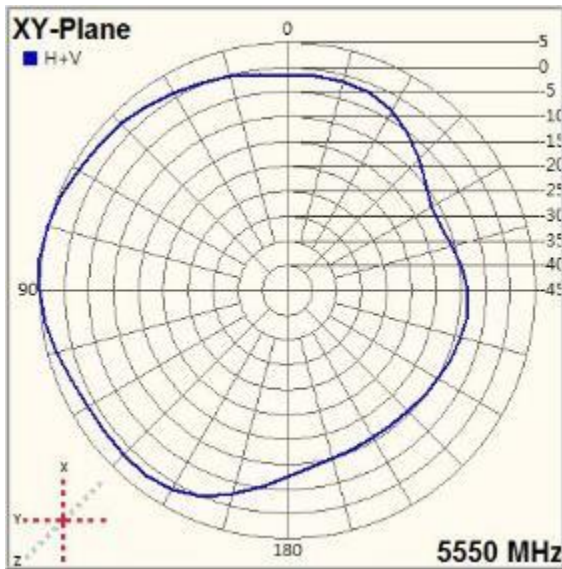
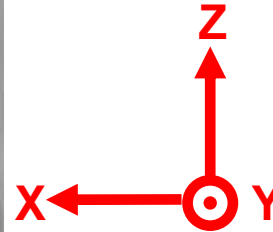
# Ant\_1 2D Gain Pattern @ 2450MHz



Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	3.0	2.6	2.2
Efficiency(%)	61	58	64

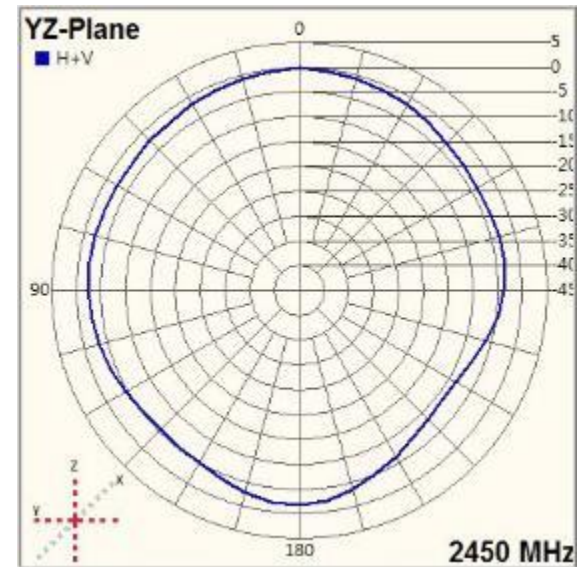
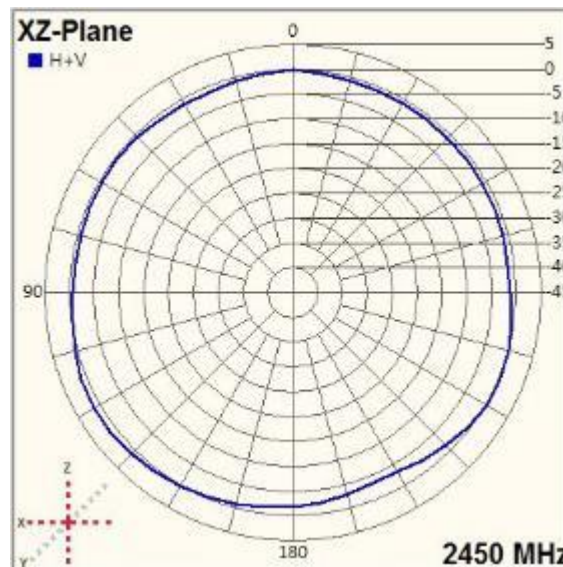
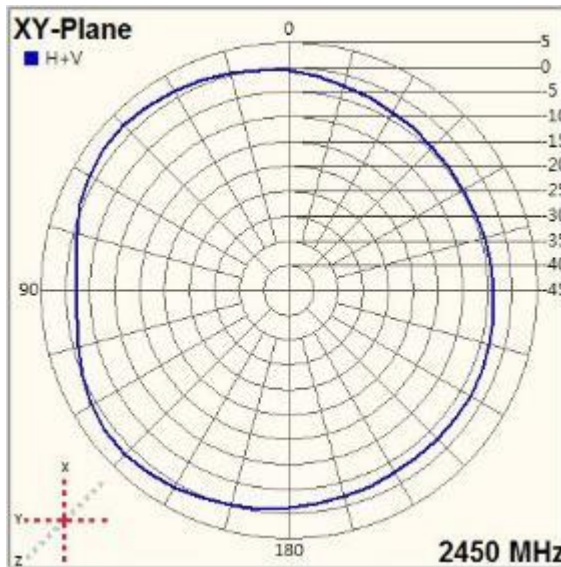
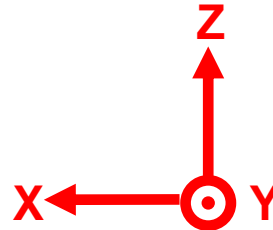


# Ant\_1 2D Gain Pattern @ 5550MHz



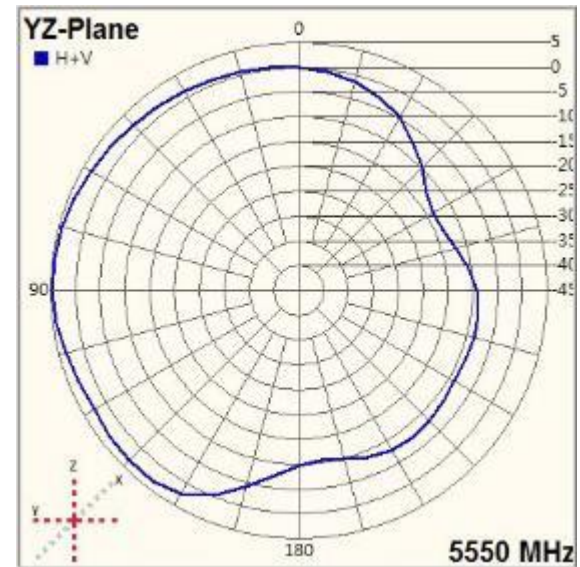
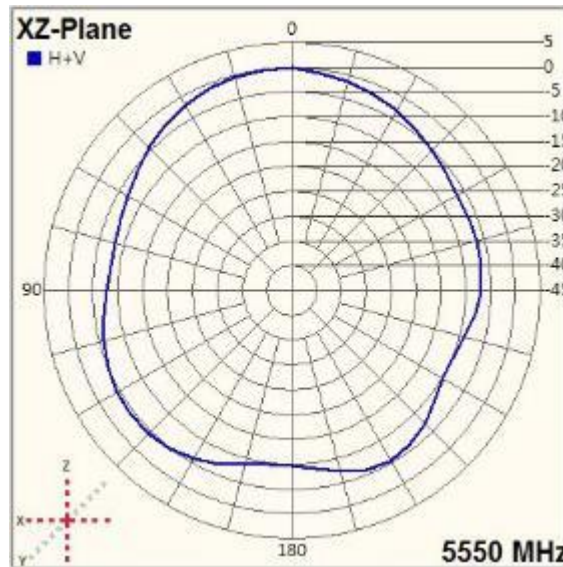
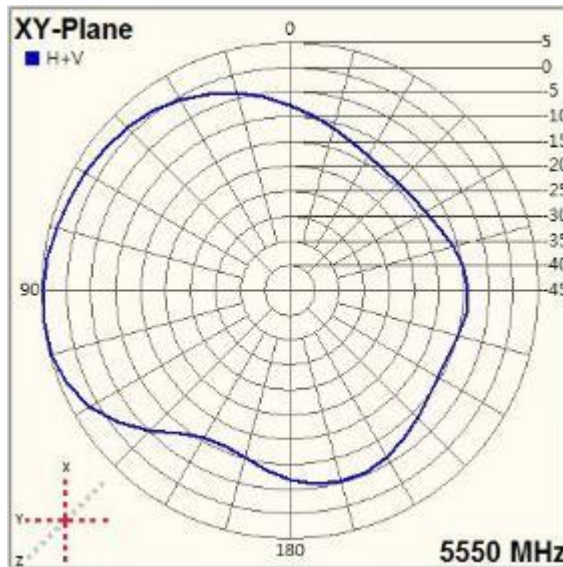
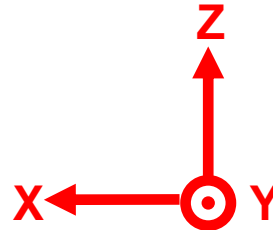
Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Peak Gain (dBi)	3.9	4.0	3.3	4.2	5.1	4.5	4.0	4.2
Efficiency(%)	54.6	57	55.8	63.1	64.1	66.5	61	58.9

# Ant\_2 2D Gain Pattern @ 2450MHz



Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	3.7	4.3	4.6
Efficiency(%)	71.6	77.3	74.0

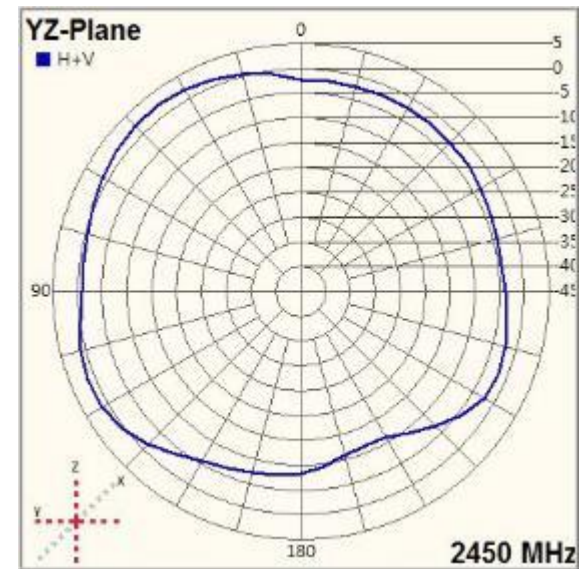
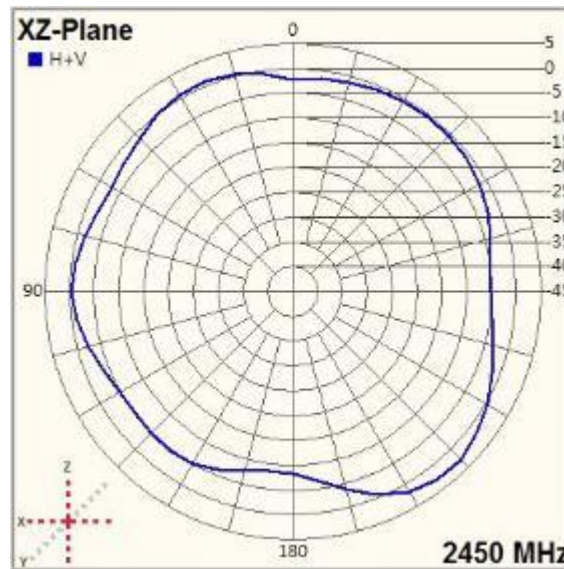
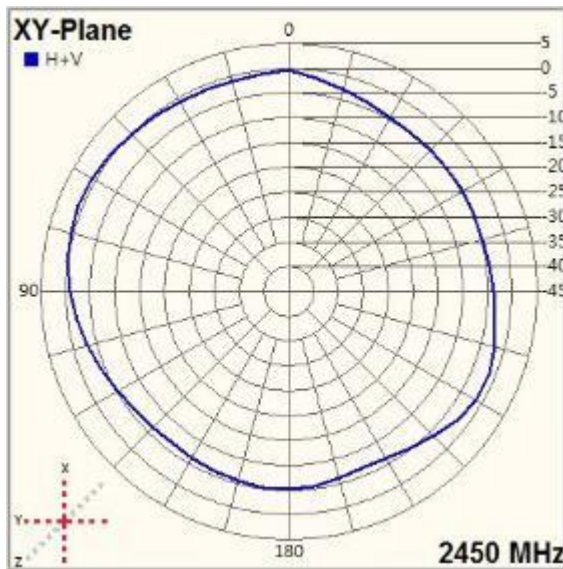
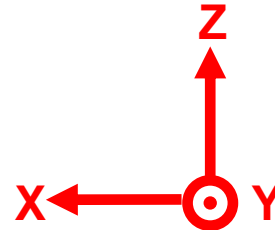
# Ant\_2 2D Gain Pattern @ 5550MHz



Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Peak Gain (dBi)	3.6	3.1	4.3	3.7	4.7	4.5	4.1	4.3
Efficiency(%)	62.5	57.2	59.1	65.3	69.6	74.4	67.4	67.3

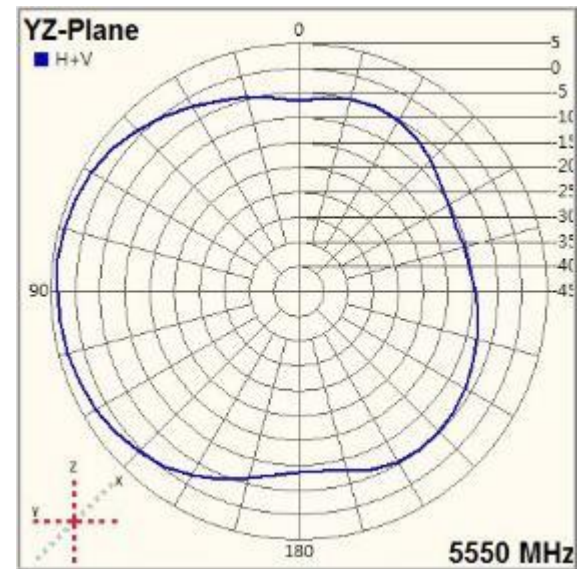
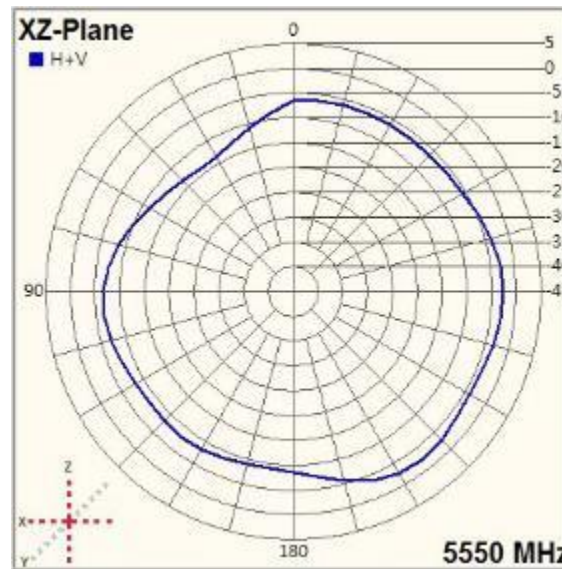
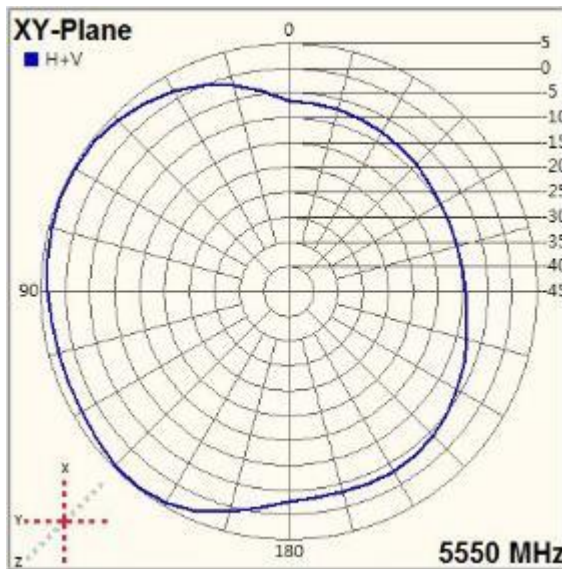
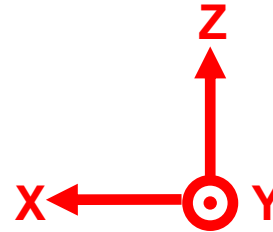


# Ant\_3 2D Gain Pattern @ 2450MHz



<b>Frequency (MHz)</b>	<b>2400</b>	<b>2450</b>	<b>2500</b>
<b>Peak Gain (dBi)</b>	<b>3.0</b>	<b>3.2</b>	<b>3.3</b>
<b>Efficiency(%)</b>	<b>65.2</b>	<b>70.1</b>	<b>66.6</b>

# Ant\_3 2D Gain Pattern @ 5550MHz



Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Peak Gain (dBi)	4.2	4.2	4.3	4.8	4.7	4.3	3.5	3.4
Efficiency(%)	59.1	60.2	59.6	68.3	68.3	66.1	57.2	54.8