

Well Green Technology Co., Ltd

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TWINHEAD Antenna Test Report

Data 3/22/05

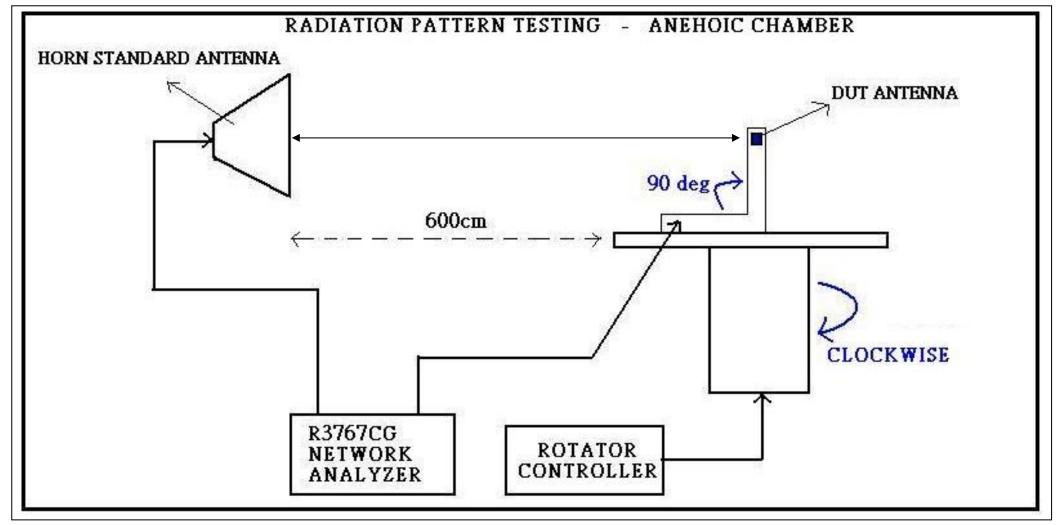
RD Manager	Supervisor	RD engineer	Sales engineer
David	Johnson	Tim	Jerry

1. Information Overview

1.1 Platform Information

1.1 Platform information	Description	Comments
Project Code of System	Description	Comments
Project Stage	■ Prototype □ EPR □ PPR □ MP	
Platform Type	■ Notebook PC ☐ Tablet PC	
,	■ Notebook FC □ Tablet FC	
1.2 Antenna Information		T
Manufacturer	Well Green Technology Co., Ltd.	
Design Stage	☐ Handmade ■ Machine ☐ Tooling	
	Antenna 1	-
Туре	PIFA	
Model Name	F10D-L	
Part Number	TWF10WIPI01A	
Antenna Location	Left-up of the panel	
Antenna Purpose	Wireless LAN 802.11abg Main Antenna	
Connector Manufacturer	IPEX	
Connector Part No.	2078-101R-13 20278-111R-13	
Frequency GHz	2.4 – 2.5, 5.15 – 5.85	
Impedance	50 Ω	
Cable Manufacturer & PN	Wonderful A3132TS001	
Cable Diameter ϕ mm	1.13	
Cable Length		
	Antenna 2	
Туре	PIFA	
Model Name	F10D-R	
Part Number	TWF10WIPI02A	
Antenna Location	Right-up of the panel	
Antenna Purpose	Wireless LAN 802.11abg Aux Antenna	
Connector Manufacturer	IPEX	
Connector Part No.	2078-101R-13 20278-111R-13	
Frequency GHz	2.4 – 2.5, 5.15 – 5.85	
Impedance	50 Ω	
Cable Manufacturer & PN	Wonderful A3132TS001	
Cable Diameter ϕ mm	1.13	
Cable Length		
	Antenna 3	
Туре	PIFA	
Model Name	F10D-Side	
Part Number	TWF10BLPI01A	
Antenna Location	Left-Side of the panel	
Antenna Purpose	Bluetooth Antenna	
Connector Manufacturer	IPEX	
Connector Part No.	2078-101R-13 20278-111R-13	
Frequency GHz	2.4 – 2.5	
Impedance	50 Ω	
Cable Manufacturer & PN	Wonderful A3132TS001	
Cable Diameter ϕ mm	1.13	
Cable Length		

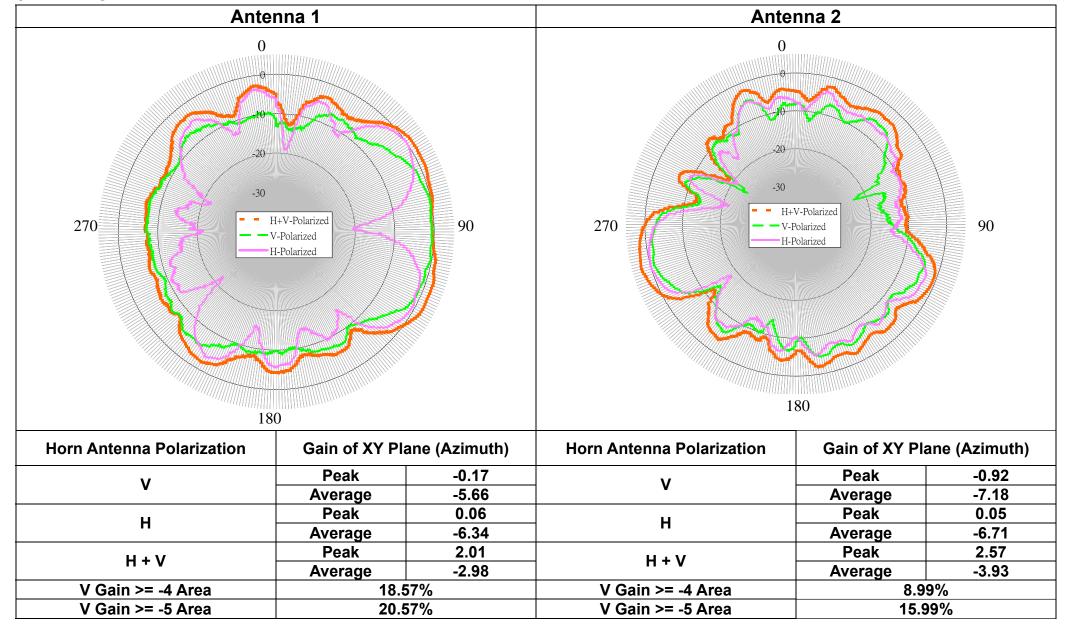
7. Antenna Radiation Pattern Testing Set Up



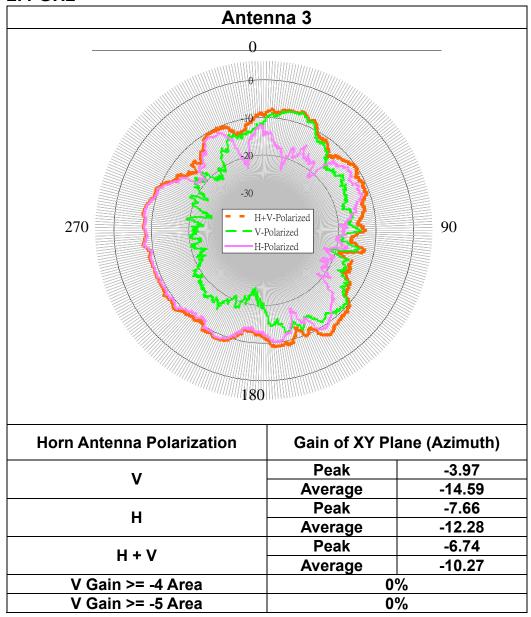
The radiation pattern and antenna gain shall be tested in an anechoic chamber. The anechoic chamber must be lined with absorptive materials. The measurements shall be made at the connector end of the cable for antenna assembly. The antennas must be installed in a fully populated platform to include a complete display and display plastics.

8. Radiation Pattern of XY Plane Testing Result

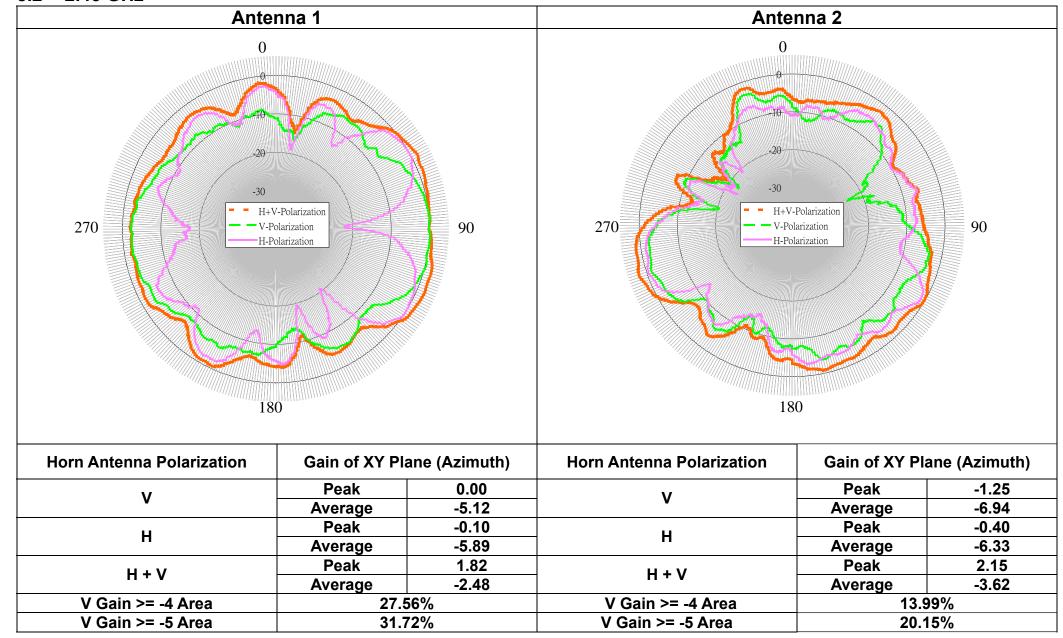
8.1 2.4 GHz



2.4 GHz



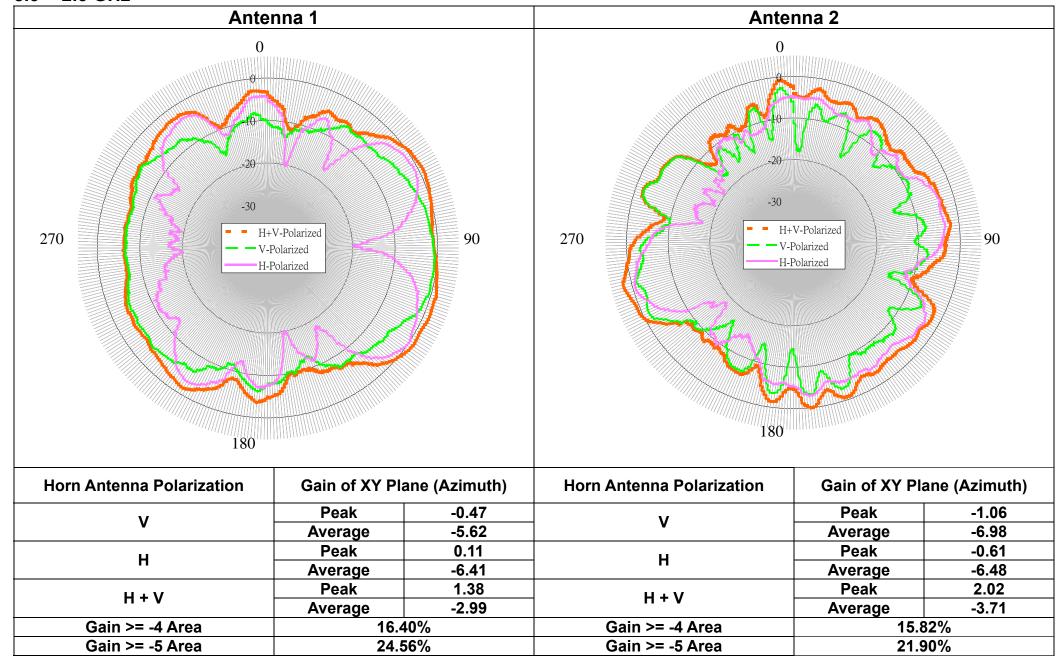
8.2 2.45 GHz



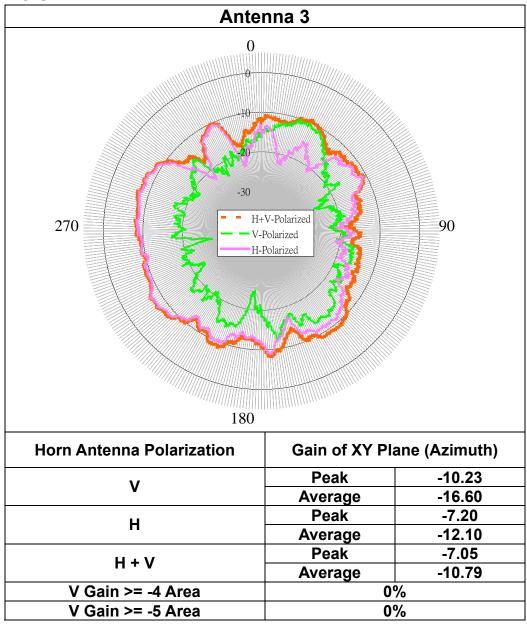
2.45 GHz

Ante	nna 3	
270 — V-Pi	7-Polarization plarization plarization	90
180		
Horn Antenna Polarization	Gain of XY Pla	ane (Azimuth)
Horn Antenna Polarization	Gain of XY Pla	-7.85
Horn Antenna Polarization V	Peak	-7.85
Horn Antenna Polarization	Peak Average Peak Average	-7.85 -15.78 -7.21 -11.79
Horn Antenna Polarization V H	Peak Average Peak	-7.85 -15.78 -7.21
Horn Antenna Polarization V	Peak Average Peak Average	-7.85 -15.78 -7.21 -11.79
Horn Antenna Polarization V H	Peak Average Peak Average Peak	-7.85 -15.78 -7.21 -11.79 -6.92 -10.33

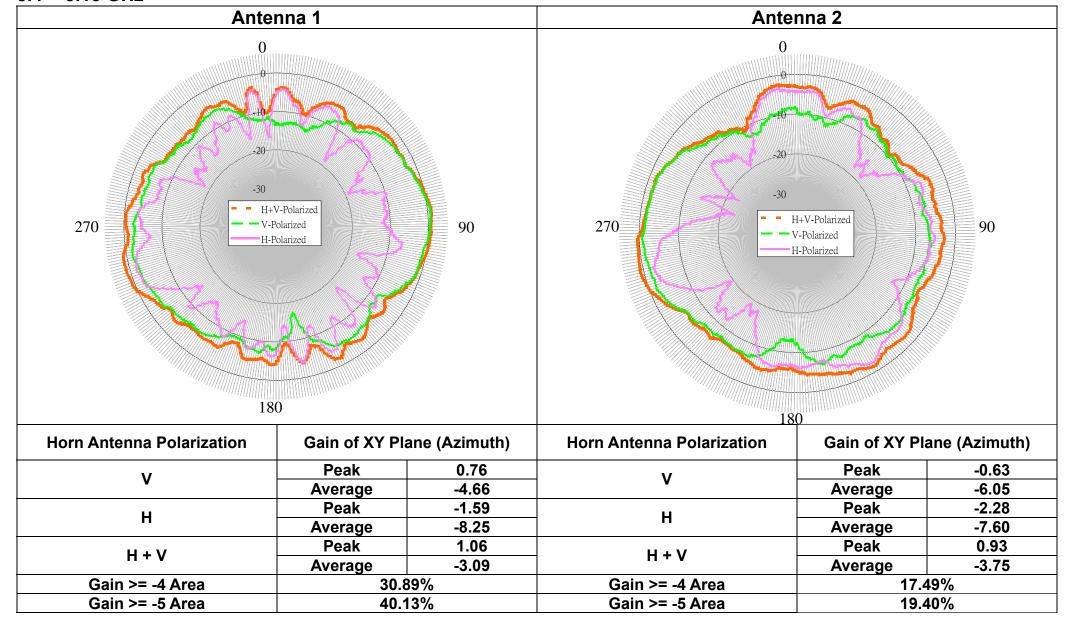
8.3 2.5 GHz



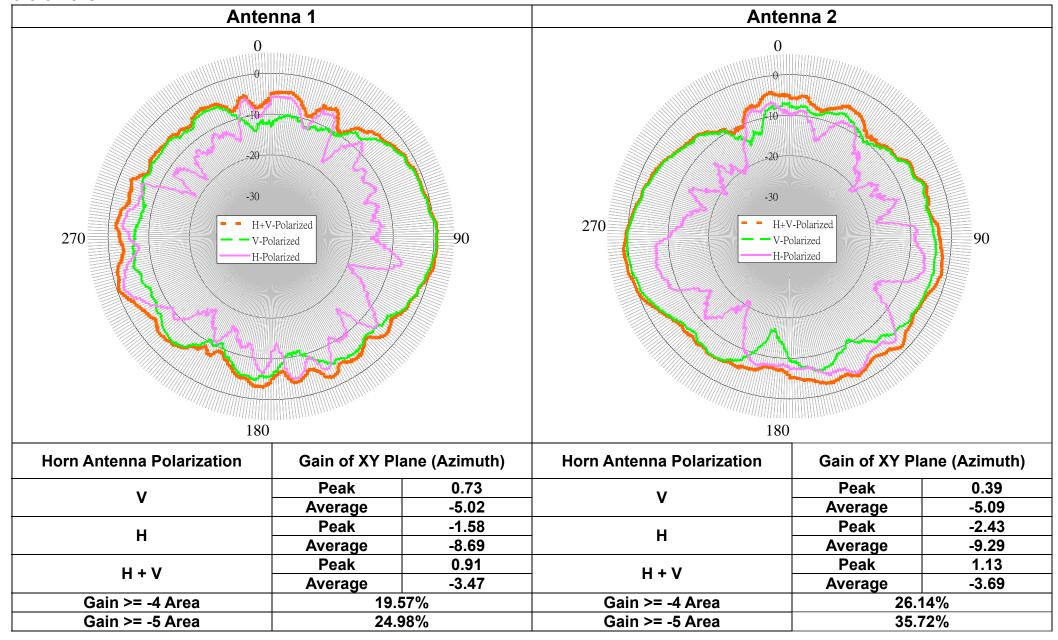
2.5 GHz



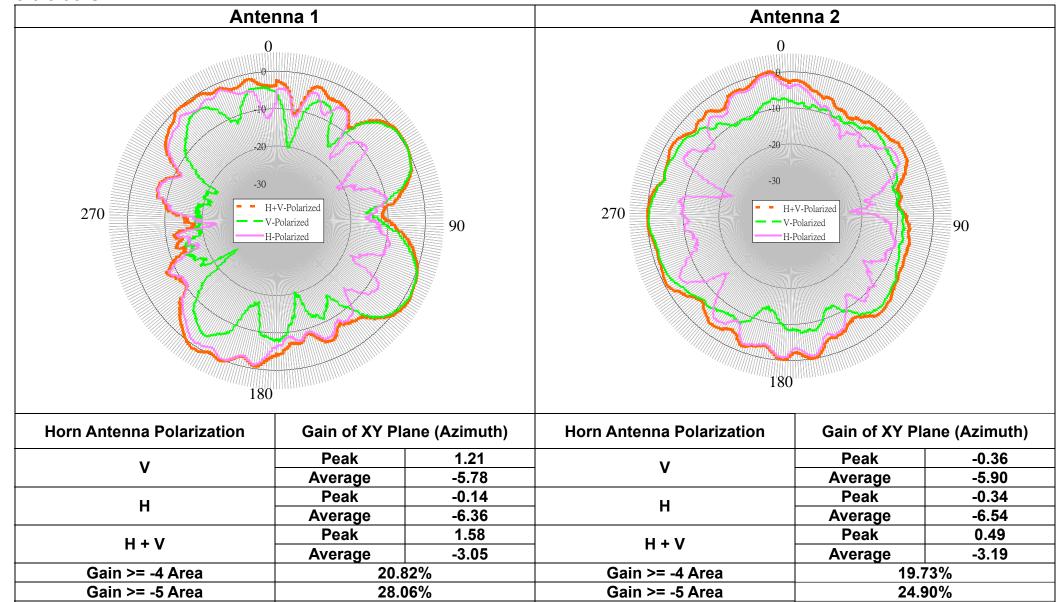
8.4 5.15 GHz



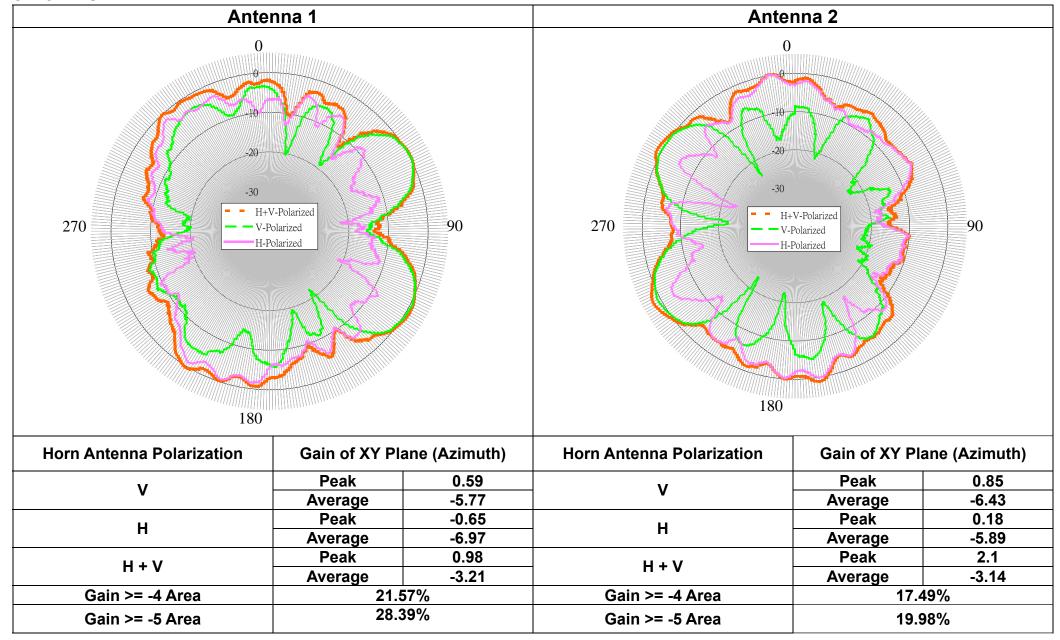
8.5 5.25 GHz



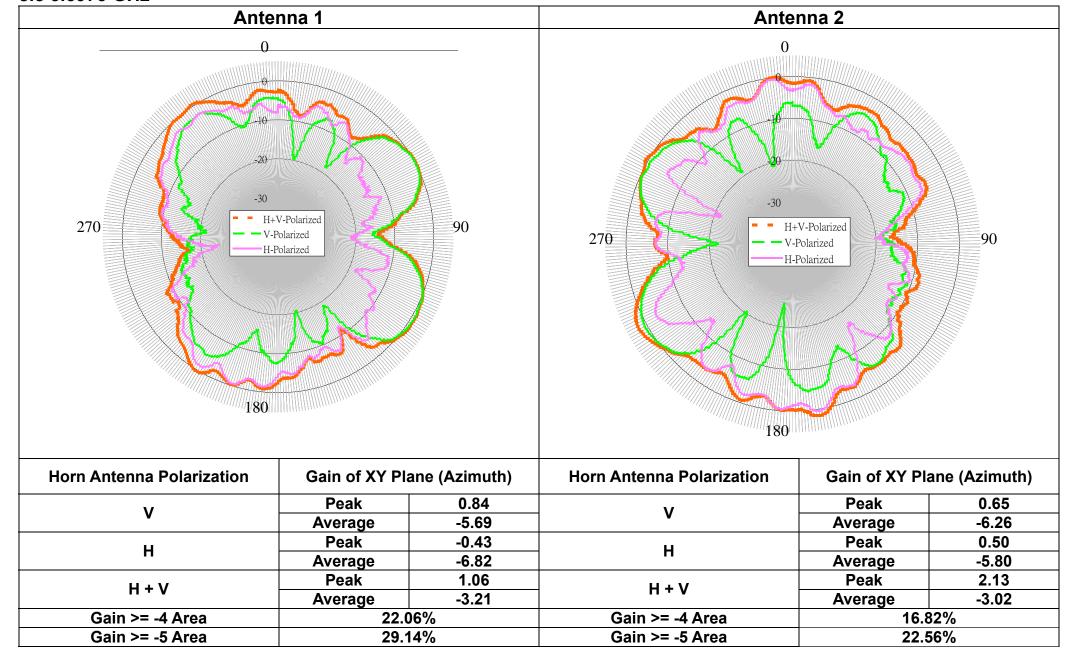
8.6 5.35 GHz



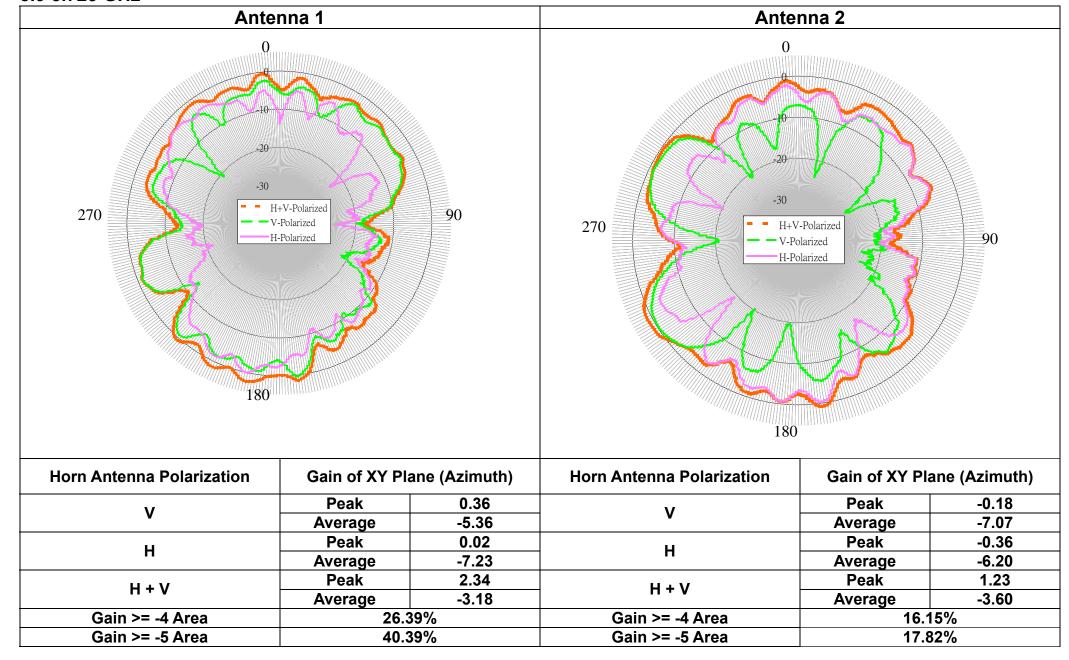
8.7 5.47 GHz



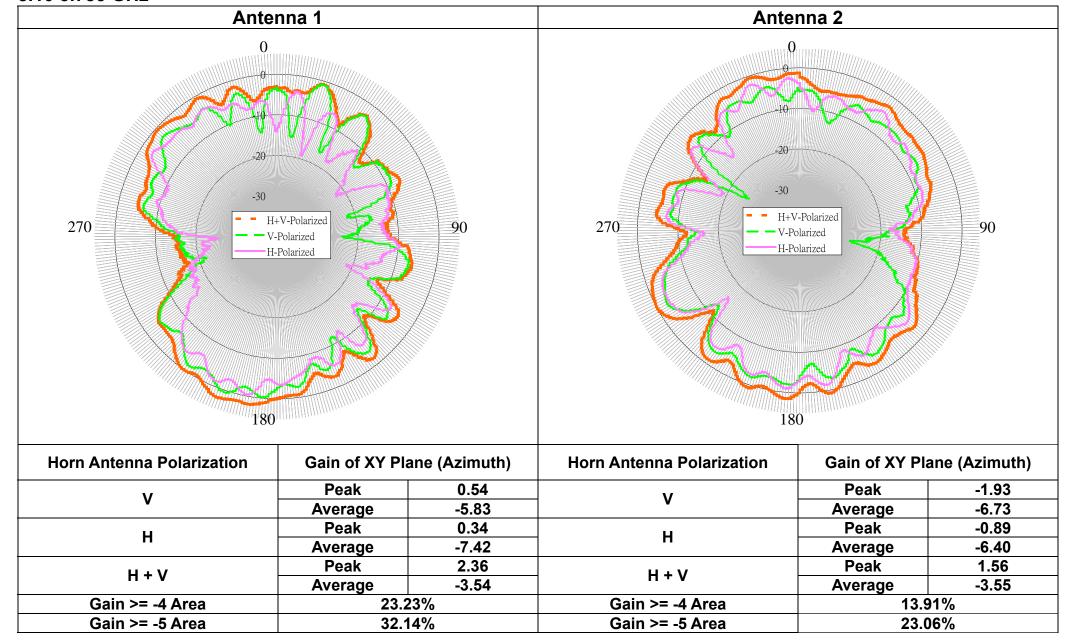
8.8 5.5975 GHz



8.9 5.725 GHz



8.10 5.785 GHz



8.11 5.85 GHz

