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ument Code:		Version:	Page -	
Measurement Report for FIC				
	ritten by : Marco I roved by : Kevin I			
	es: Terry Liu EXT:			
	01/03/2005			
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	Total page : 19			
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	Abstract:			
This document reports solution. The testing inclu				



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OUTLINE :				
1.Experimental Setup				
2.Antenna Location In Notebook				
3. Return loss and VSWR and Isolation				
4. Radiation Pattern				



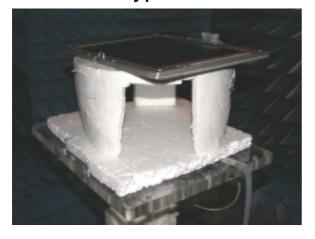
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1. Experimental Setup

Antenna under test (AUT) :



H type



V type



- Measurement Item :
 - a. Return loss
 - b. Radiation pattern
- Return Loss :
 - a. Instrument: vector network analyzer Agilent 8719ES
 - b. Calibration method: open/short/load
- Radiation Pattern :
 - a. Instrument: WALSIN In-house antenna measurement system
 - b. Calibration method: ETS pyramidal standard horn antennas



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2. Antenna Location In Notebook

Left Antenna

Right Antenna

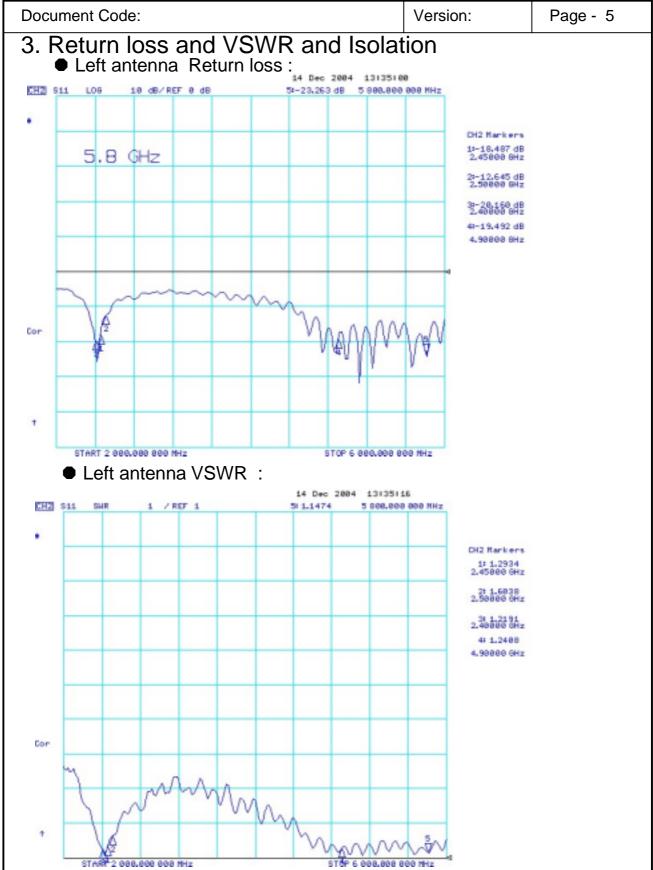


Left Antenna

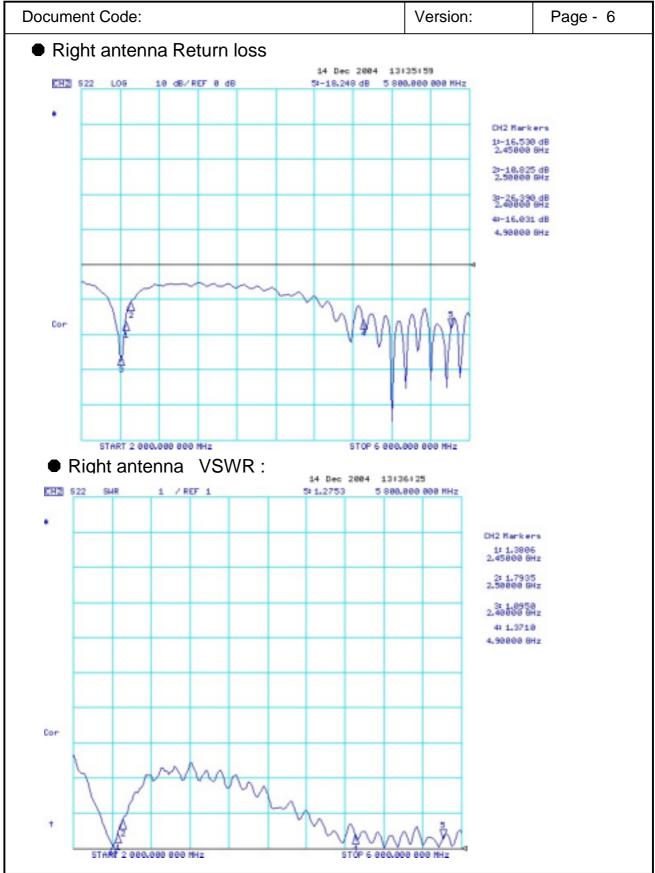
Right Antenna



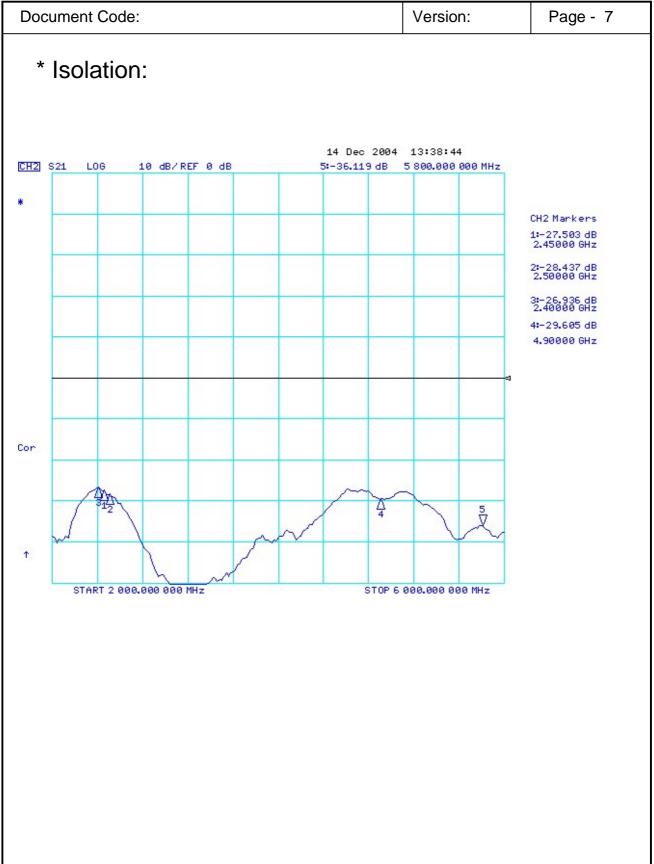














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4. Radiation Patterns

Unit: dBi

Polarization directions :

parallel to paper

normal to paper

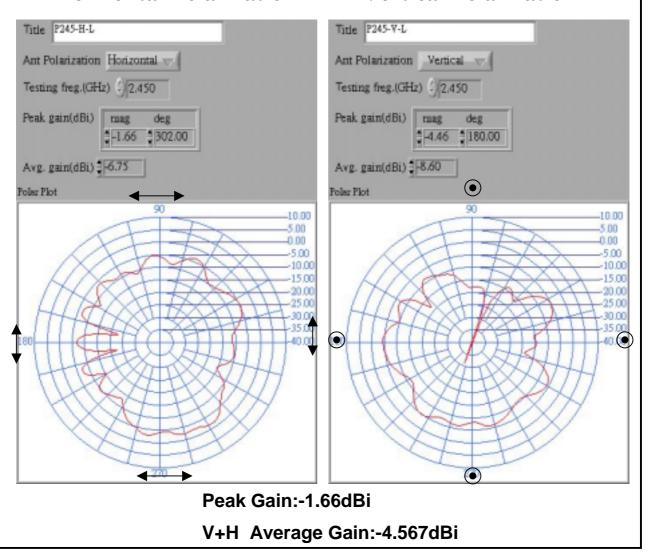
Frequency = 2.45 GHz

Left antenna



Horizontal Polarization

Vertical Polarization



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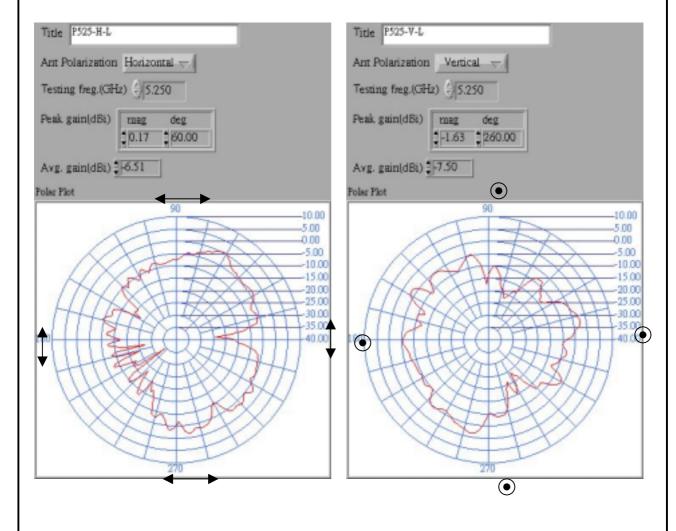
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Frequency = 5.25 GHzLeft antenna



Horizontal Polarization

Vertical Polarization



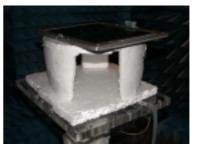
Peak Gain:0.17dBi

V+H Average Gain:-3.967dBi



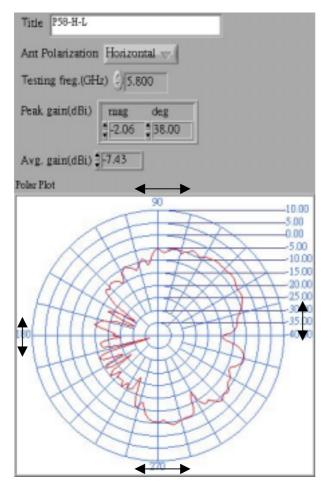
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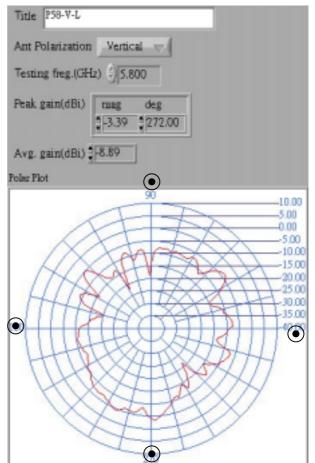
Frequency = 5.8 GHzLeft antenna



Horizontal Polarization

Vertical Polarization





Peak Gain:-2.06dBi

V+H Average Gain:-5.089dBi



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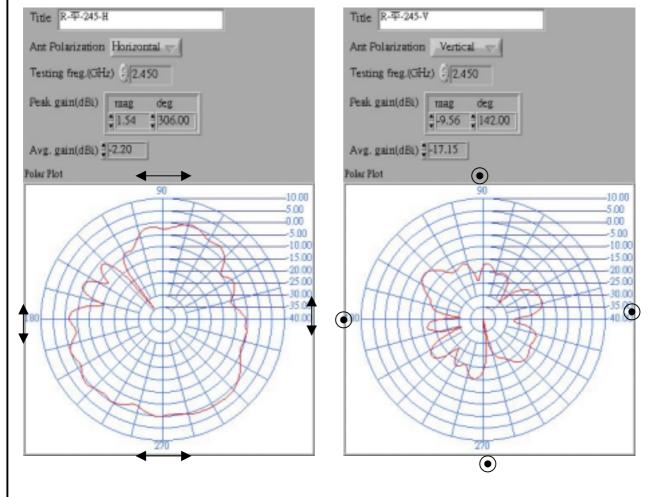
• Frequency = 2.45GHz

Right antenna

Horizontal Polarization



Vertical Polarization



Peak Gain:1.54dBi

V+H Average Gain:-2.063dBi



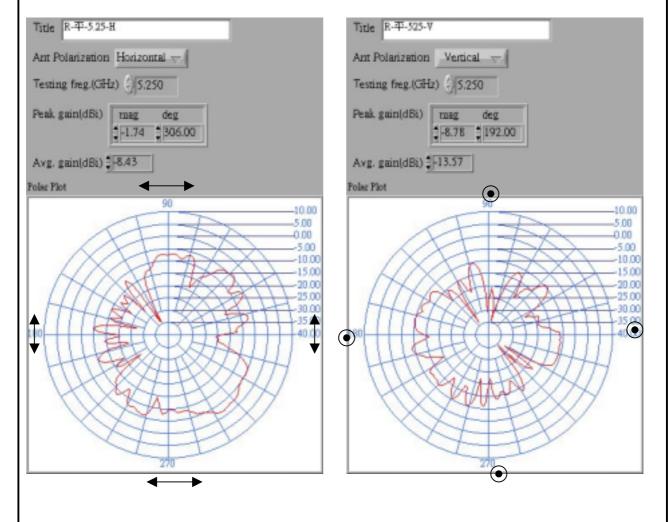
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Frequency =5.25 GHzRight antenna



Horizontal Polarization

Vertical Polarization



Peak Gain:-1.74dBi

V+H Average Gain:-7.27dBi



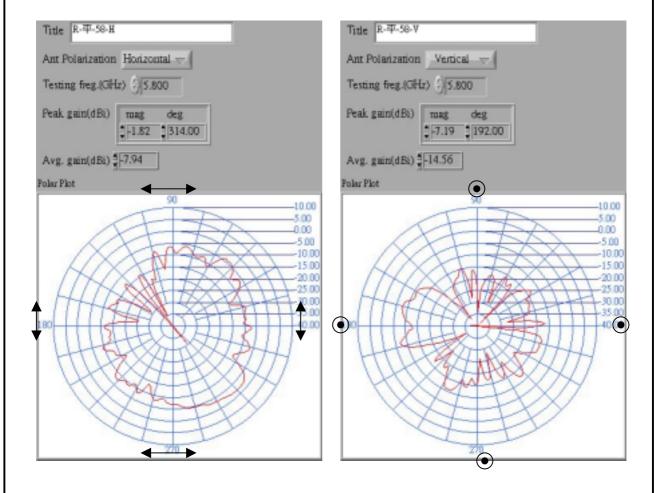
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Frequency = 5.8 GHzRight antenna



Horizontal Polarization

Vertical Polarization



Peak Gain:-1.82dBi

V+H Average Gain:-7.084dBi



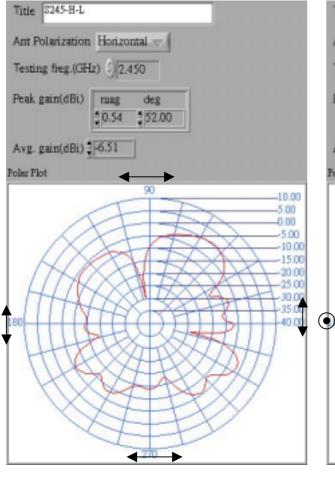
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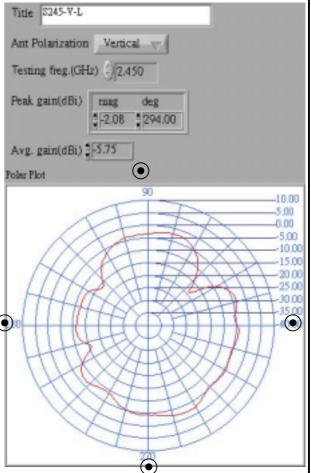
Frequency = 2.45 GHzLeft antenna



Vertical Polarization

Horizontal Polarization





Peak Gain:0.54dBi

V+H Average Gain:-3.103dBi



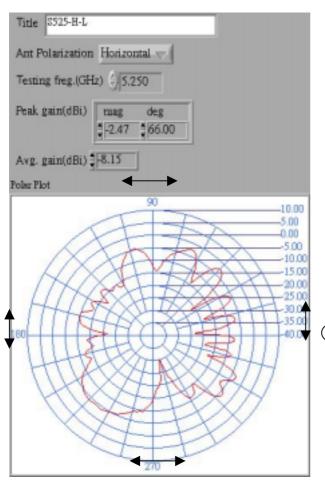
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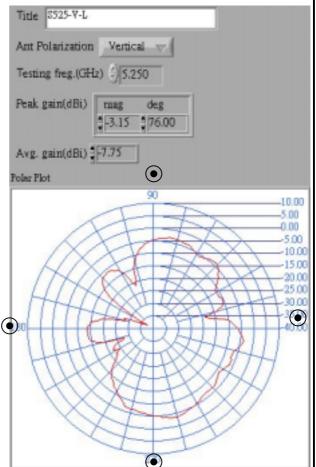
Frequency = 5.25 GHzLeft antenna



Vertical Polarization

Horizontal Polarization





Peak Gain:-2.47dBi

V+H Average Gain:-4.935dBi



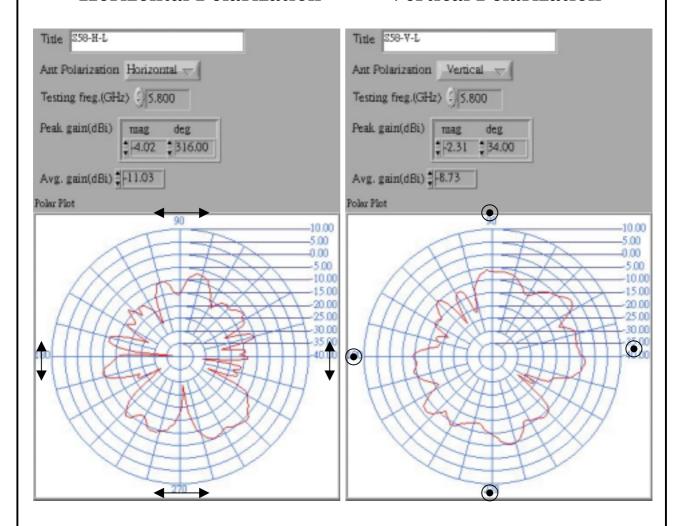
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Frequency = 5.8 GHzLeft antenna



Horizontal Polarization

Vertical Polarization



Peak Gain:-2.31dBi

V+H Average Gain:-6.719dBi



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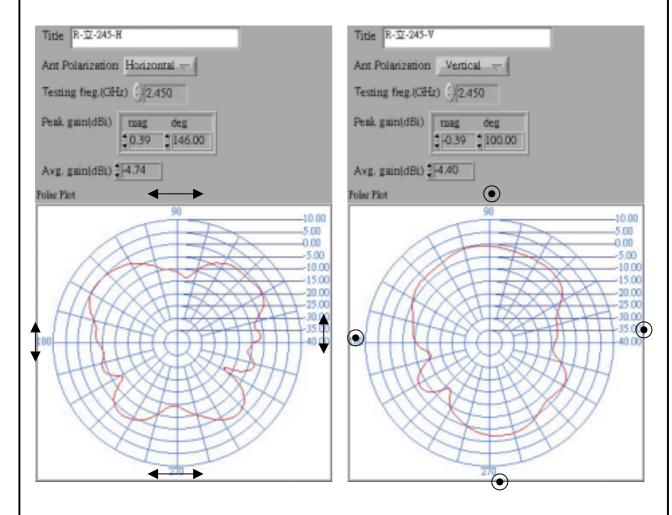
• Frequency = 2.45GHz

Right antenna

Horizontal Polarization



Vertical Polarization



Peak Gain:0.39dBi

V+H Average Gain:-1.556dBi



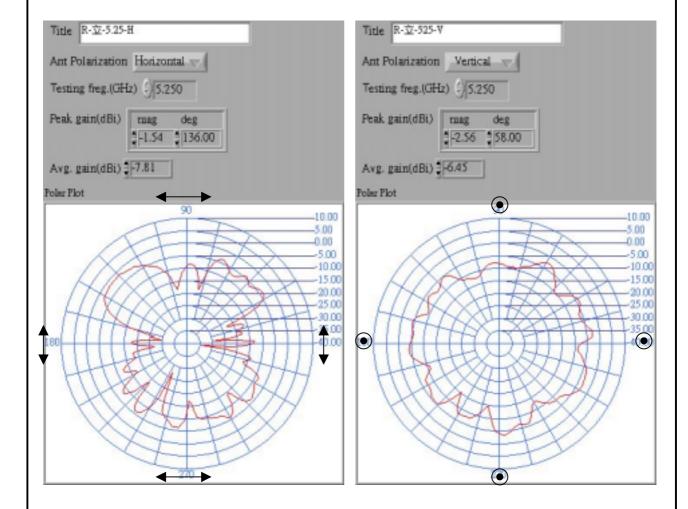
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Frequency =5.25 GHzRight antenna



Horizontal Polarization

Vertical Polarization



Peak Gain:-1.54dBi

V+H Average Gain:-4.067dBi



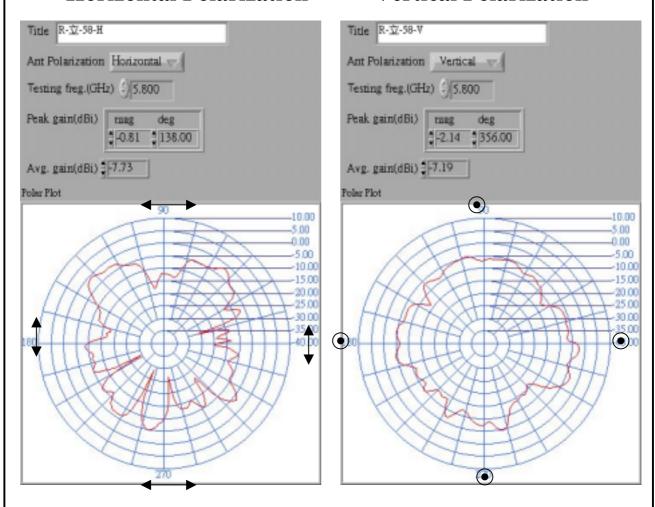
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Frequency = 5.8 GHzRight antenna



Horizontal Polarization

Vertical Polarization



Peak Gain:-0.81dBi

V+H Average Gain:-4.441dBi