# **ANTENNA TEST REPORT**

### SUMMARY OF TEST RESULTS

ltem	Specification					
Frequency	2.4 - 2.5 GHz					
Peak Gain (max.)	-0.92 dBi					
Average Gain	-8.40 dBi					
V.S.W.R.	3.395 max.					
Antenna Type	Printed Monopole Antenna					
Polarization	Linear					
Impedance	50 ohm					

### **MEASUREMENT EQUIPMENT**

Name of Equipment	Manufacturer	Model	Serial Number	<b>Calibration Due</b>		
S-Parameter Network Analyzer	Agilent	E8358A	US40260243	05/24/04		
Signal Generator	Agilent	83630B	3844A01022	01/14/05 01/10/05		
Spectrum Analyzer	Agilent	E4446A	MY43360131			
Horn antenna	EMCO	3115	00022250	02/26/05		
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/05		

Reviewed by:

mes

James Lee Section Manager Compliance Certification Services Inc.

Tested by:

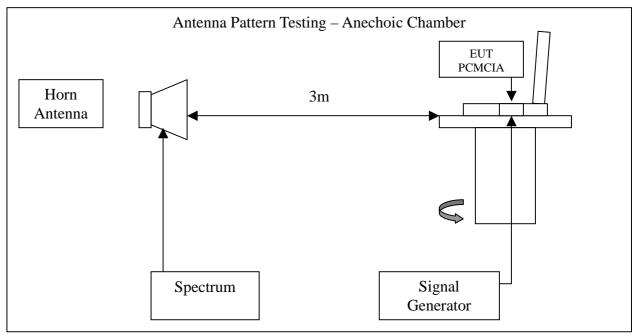
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Devin Cheng Section Manager Compliance Certification Services Inc.

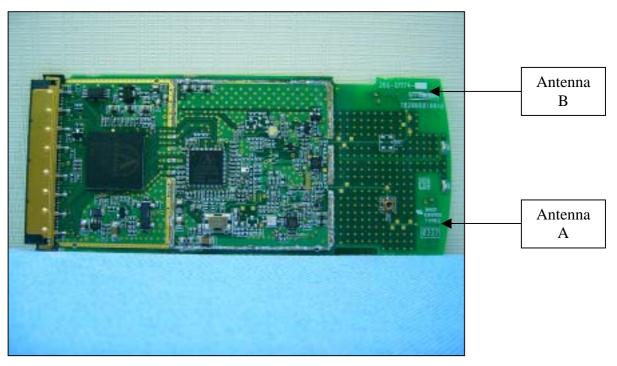


# 1. ANTENNA TEST CONDITIONS

### **Test Setup**



# **EUT Antenna Description**





# 2. ELECTRICAL CHARACTERISTICS

#### V.S.W.R.

#### Antenna A



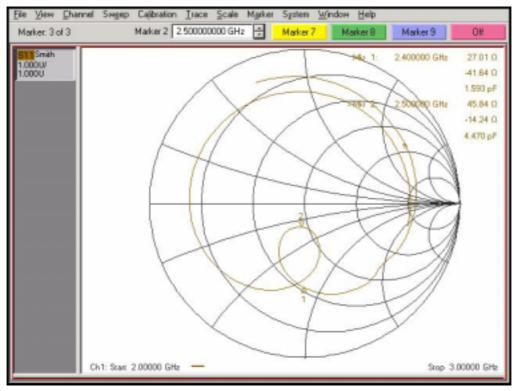
#### Antenna B

Market: 3 of 3		Marker 2 25	000000000	GH2 🗧	Marke	er 7	Marker 8	Marker 9	OĦ
SWR	11.00 0.51						Mia 1:	2.400000 GHz	3.146
1.000U/	10.00						>Mkr 2:	2.500000 GHz	2.305
	9.00	_	1						
	8.00	_	1						
	7.00	_	1					-	
	6.00						/		
	5.00	_		1		1	/		
	4.00					1			
	3.00					/			
	2.00	_			1				
	1.00	2.00000 GHz			V				0000 GH

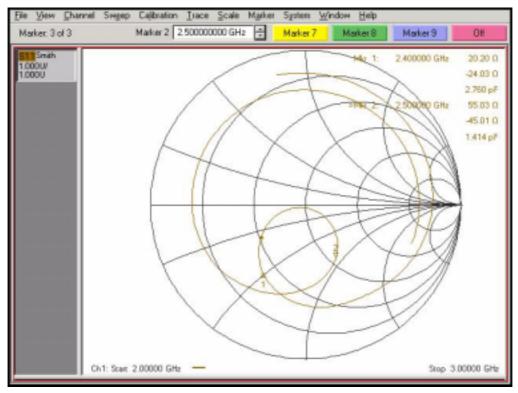


### **Smith Chart**

#### Antenna A



#### Antenna B

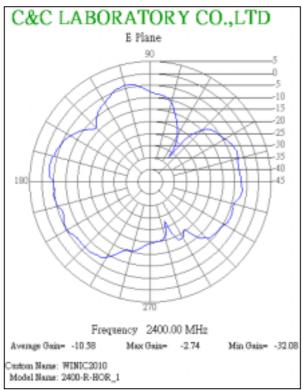


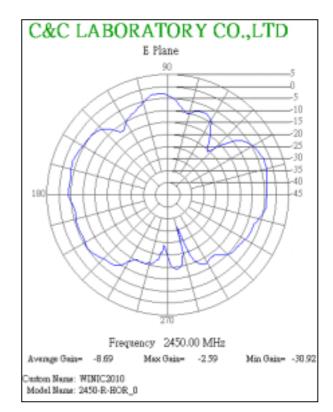


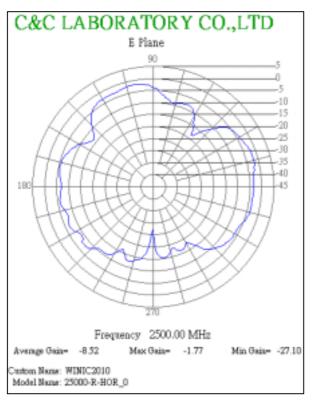
### 3. ANTENNA PATTERNS

#### Antenna A

• Co-plane (E-plane)







# Compliance Certification Services Inc. Date of Test: April 30, 2004

-10

-15

-20

25

-30

- 15

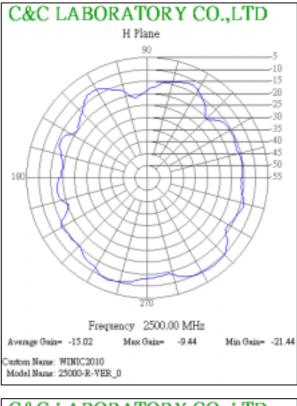
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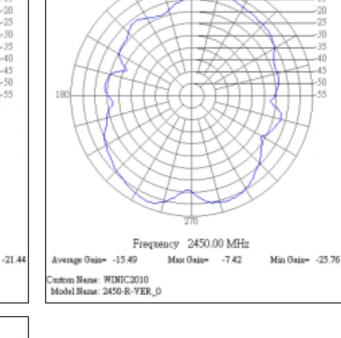
-45

-50

-55

# • Cross-plane (H-plane)

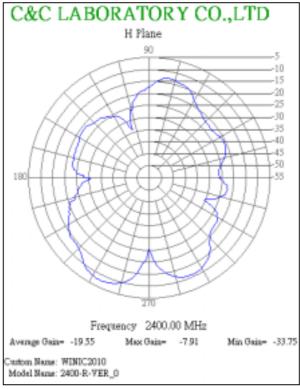




C&C LABORATORY CO., LTD

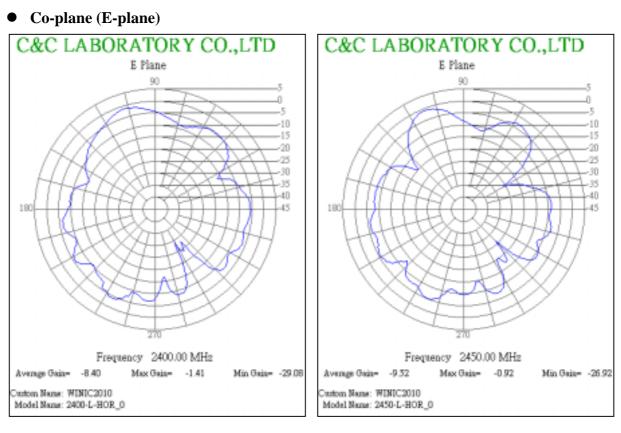
H Plane

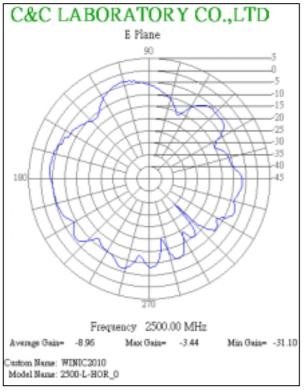
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#### Antenna B





# Compliance Certification Services Inc. Date of Test: April 30, 2004

### • Cross-plane (H-plane)

