



承認書 Approval Sheet

PAO No : PAO-1101608
Page : 1 of 1
Date : 05 / 05 / 2011

Part No : 617202A7WY	REV: 2	Where use: NA910	
Maker : WHA YU INDUSTRIAL CO., LTD	Maker P/N : C147-510711-A	REV: X2	
Part Name : ANTENNA	Vendor : WHA YU	Place/Origin : China	
Part Description : ANTENNA C147-510711-A,106mm/50ohm/GA WYI			Green Related RoHS

Contents or Instructions :

1. RD Jason Chen 通知 廠商承認書需增加 Gain (peak) value, 以符合EMC CE Report 敘述。
 1-1. Change the revision of the SerComm P/N: 617202A7WY from 1 to 2.
 1-2. 廠商承認書Electrical Properties Specification說明 增加 Gain (peak) value.

1.5 Peak Gain.....	3.8 dBi
1.6 Cable Loss.....	0.3dB Max
1.7 Radiation.....	Omni-directional

2. Detailed specification is shown as attachment.

中磊電子股份有限公司

May. 05 2011

文件管制中心發行章

* 任何變更須事前經協調並承認後始可變更. Any change must be negotiated in advance, and execute the revision after SerComm's Approval.

Disposition	Countersign	In Charge (Name/Date)	Checked By (Name/Date)
Final Approval : <input checked="" type="checkbox"/> electrical <input checked="" type="checkbox"/> dimensional <input checked="" type="checkbox"/> visual <input checked="" type="checkbox"/> function	✓	Component	May Hsu 05/05/2011
Conditional Approval : <input type="checkbox"/> electrical <input type="checkbox"/> dimensional <input type="checkbox"/> visual <input type="checkbox"/> function		PM	
Temporary Approval : <input type="checkbox"/> electrical <input type="checkbox"/> dimensional <input type="checkbox"/> visual <input type="checkbox"/> function	✓	EMI	Ronnie Cheng 05/05/2011
Attachments : <input type="checkbox"/> sample <input checked="" type="checkbox"/> specification <input type="checkbox"/> drawing <input type="checkbox"/> other		Mechanical	
Final disposition : <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Conditional Approved : For purchasing to by _____ pcs, for pilot production test. <input type="checkbox"/> Temporary approved : Vendor is requested to supply samples again before _____ (mm)/ _____ (dd)/ _____ (yy)		H/W EE	Jason Chen 05/05/2011
		PE	
	Change history (變更記錄)		
	REV	Related Document (相關文件)	FILE No. (編號)

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WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)
 DONGGUAN AEON TECH CO.,LTD.(CHINA)
 SUZHOU AEON TECH CO.,LTD.(CHINA)
 AEON TECH (SHANGHAI) CO.,LTD(CHINA)
 DONGGUAN PARNER TECH CO.,LTD.(CHINA)



SPECIFICATION FOR APPROVAL

CUSTOMER: 中磊電子股份有限公司

PART NAME: PIFA Antenna

PART NO:

REVISION:

W. Y. P/NO: C147-510711-A(SSR-02200)

REV: X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	<i>ea</i>	
DATE :	2010.12.3	

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PIFA Antenna Assembly

Specification

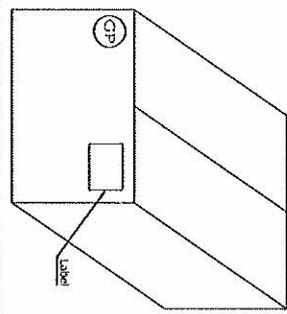
1. Electrical Properties :

- 1.1 Frequency Range..... 2.4~2.5GHz
- 1.2 Impedance 50 Ω Nominal
- 1.3 VSWR 1.92 : 1 Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Peak Gain..... 3.8 dBi
- 1.6 Cable Loss..... 0.3dB Max
- 1.7 Radiation..... Omni-directional
- 1.8 Polarization..... Linear ; Vertical
- 1.9 Admitted Power..... 1W
- 1.10 Cable..... ϕ 1.13 Coaxial Cable
- 1.11 Connector..... MHF Plug Connector

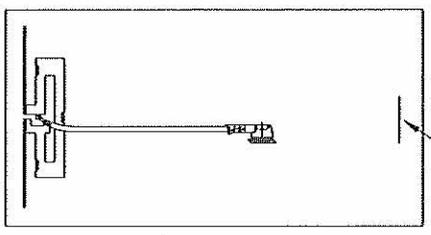
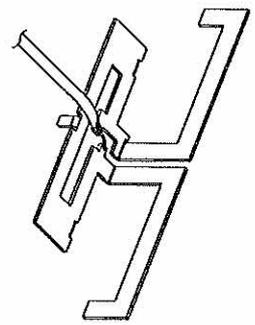
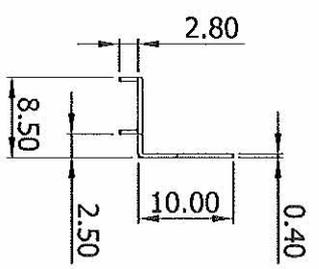
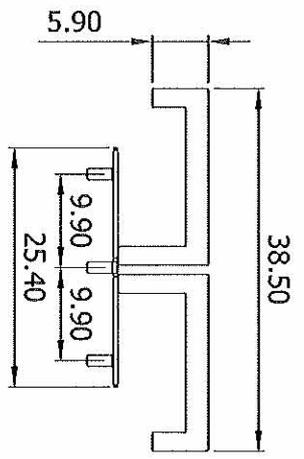
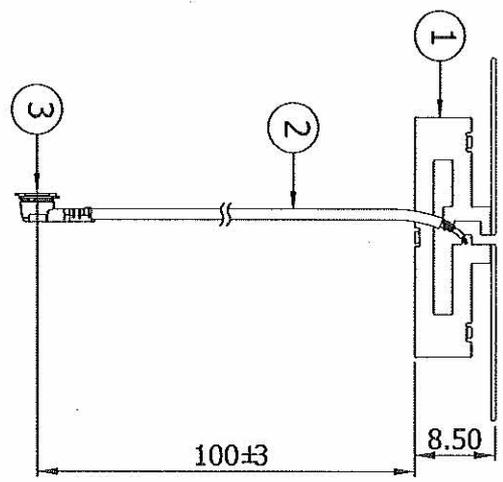
2. Physical Properties :

- 2.2 Operating Temp. -10 $^{\circ}$ C ~ +60 $^{\circ}$ C
- 2.3 Storage Temp. -10 $^{\circ}$ C ~ +70 $^{\circ}$ C

REV	DATE	DESCRIPTION
X1	7/9-2010	New Issue



GP 標籤貼於外箱兩邊側面左上角共 2PCS
 標示 Label 貼於外箱兩邊側面共 2PCS



Packing : 1 pcs/bag
 (每10袋用釘書機釘起來)

NO	DESCRIPTION	QTY	REMARK
3	Connector	1	MHF Plug
2	Cable	1	Ø1.13 Coaxial Cable : Gray
1	PIFA	1	SUS430 Nickel-Plating

CUSTOMER: 中磊

PART NO : _____

PARTNAME: PIFA Antenna

W.Y P/NO : C147-510711-A

REV : SSR-00694

UNIT : m/m

FILE : _____

SHEET : 1/1

CUSTOMER'S SIGNATURE

APPROVED: [Signature]

CHECKED: [Signature]

DRAWING: [Signature]

XX ±5

X ±0.0

XX ±0.1

XXX ±0.1

Mogear Wha Yu Group

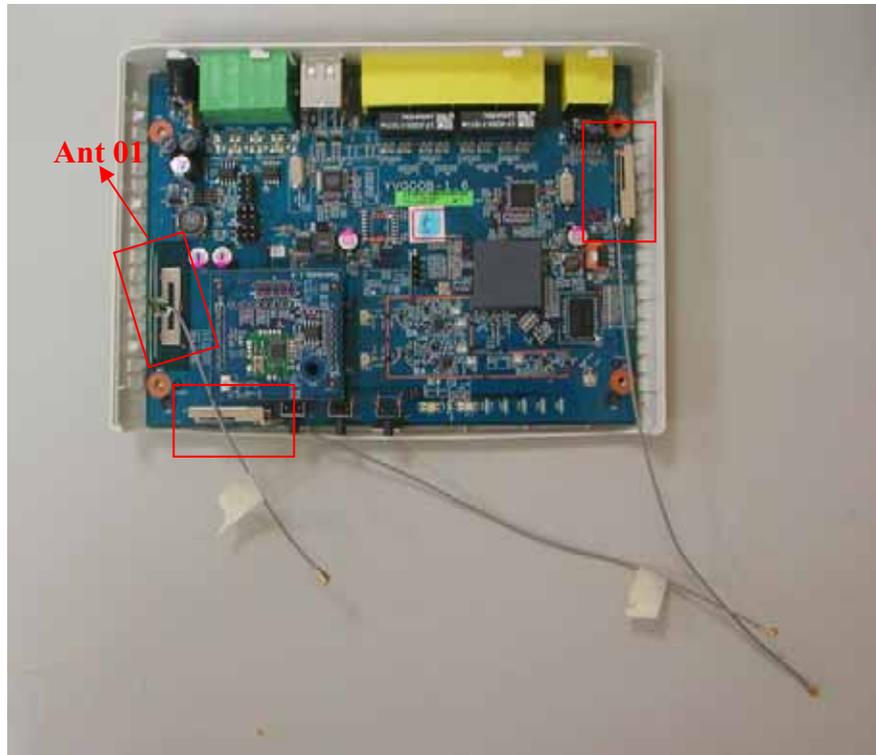
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SSR-02200

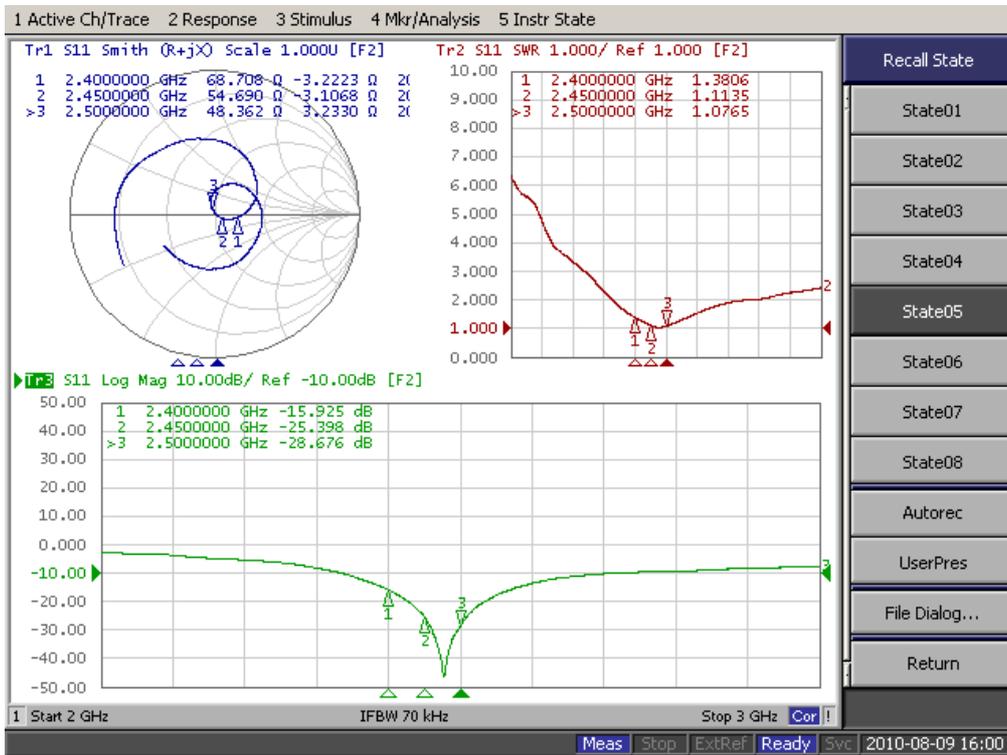
Test Data	2010/08/10
Test Member	FISH

一、 Return Loss & VSWR

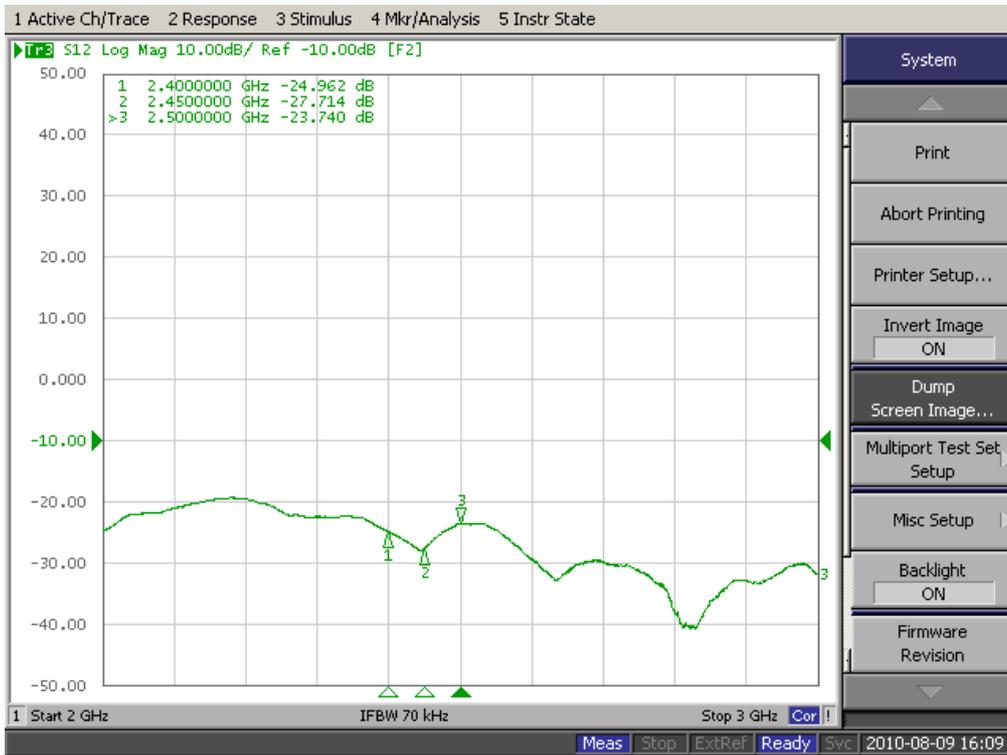
測試線焊接示意圖



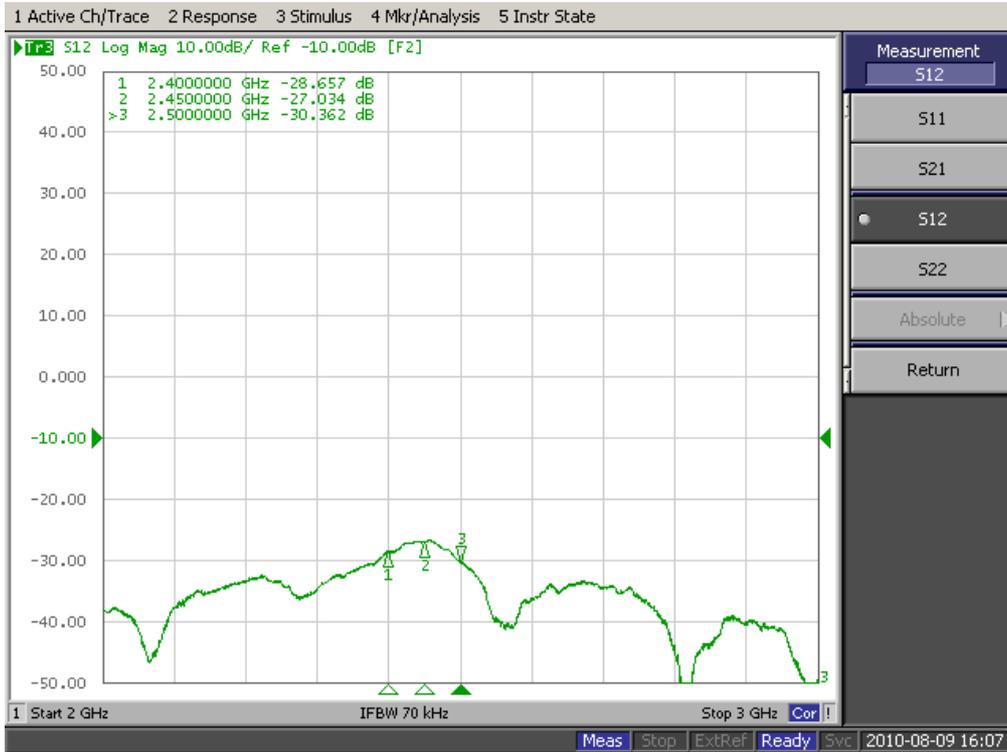
ANT01



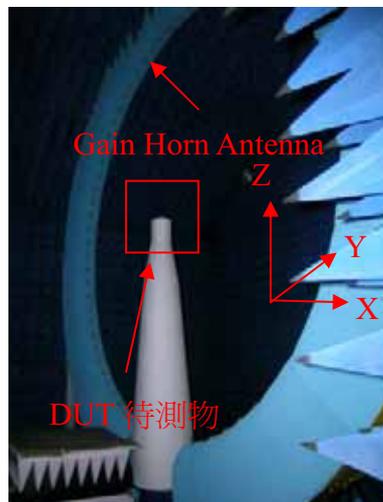
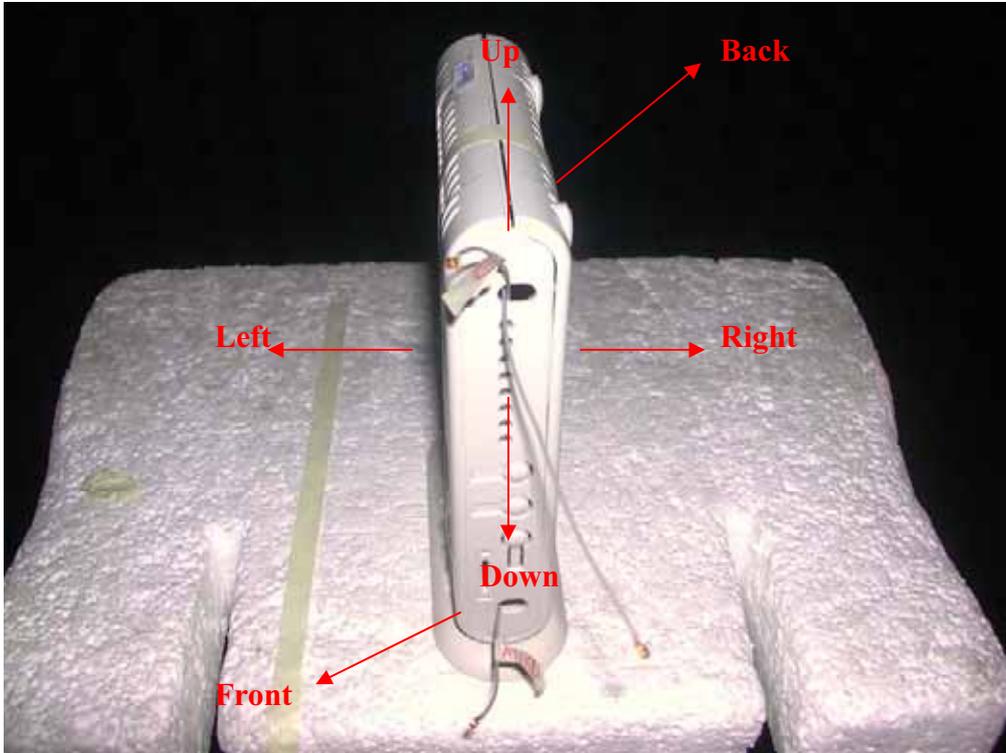
Isolation LEFT-ANT01



Isolation LEFT-ANT01

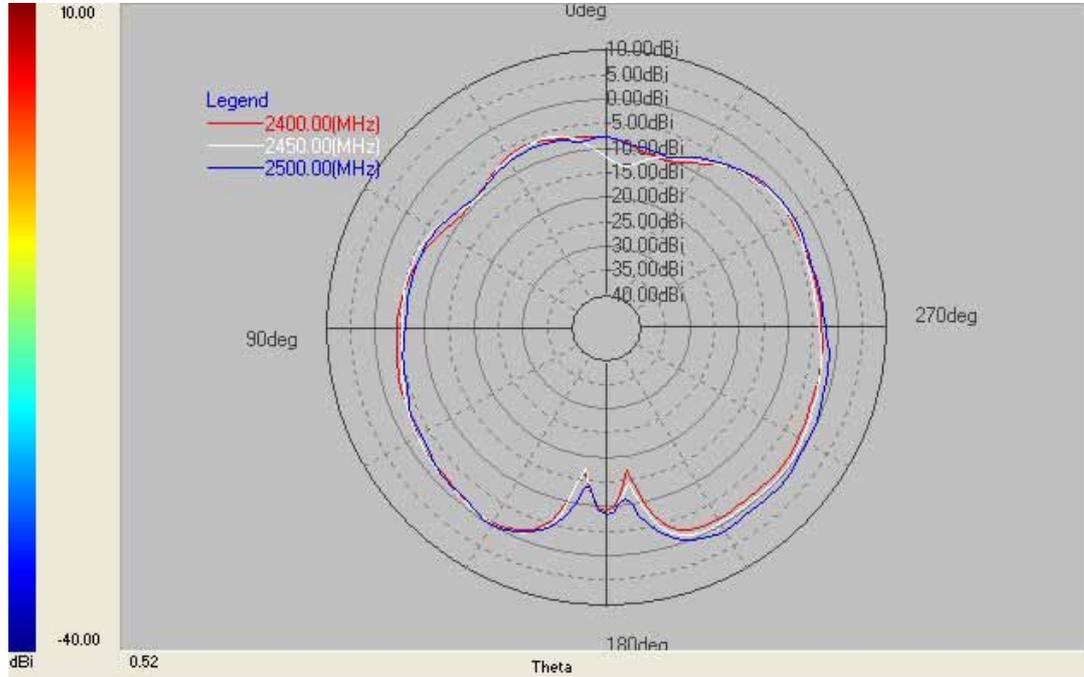


二、Radiation Pattern Measurement

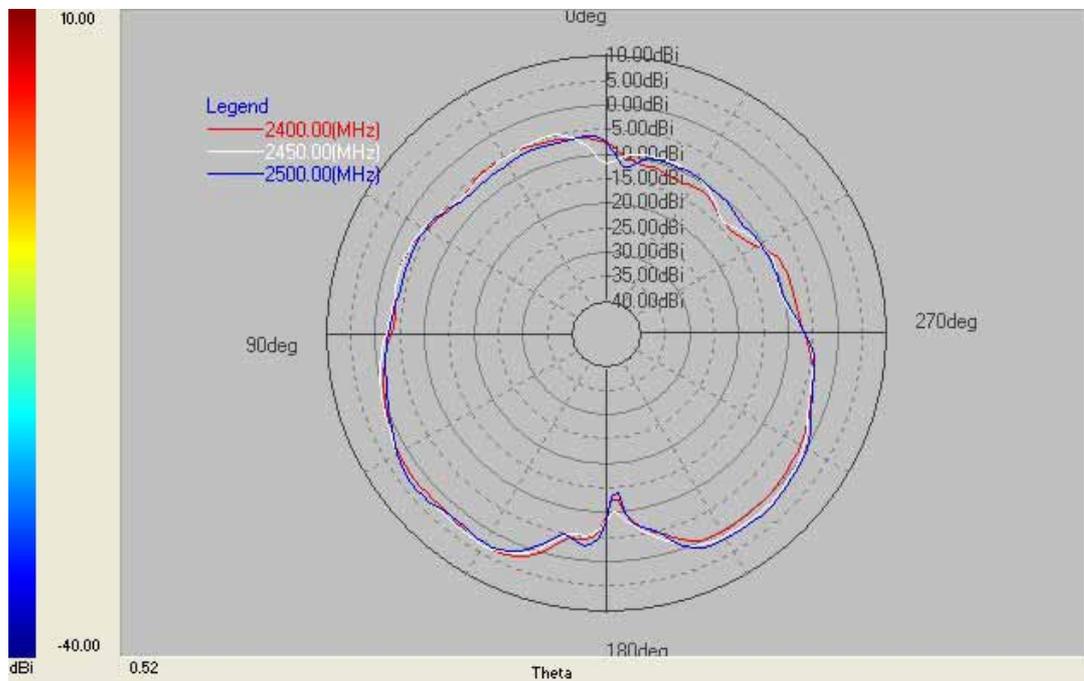


	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

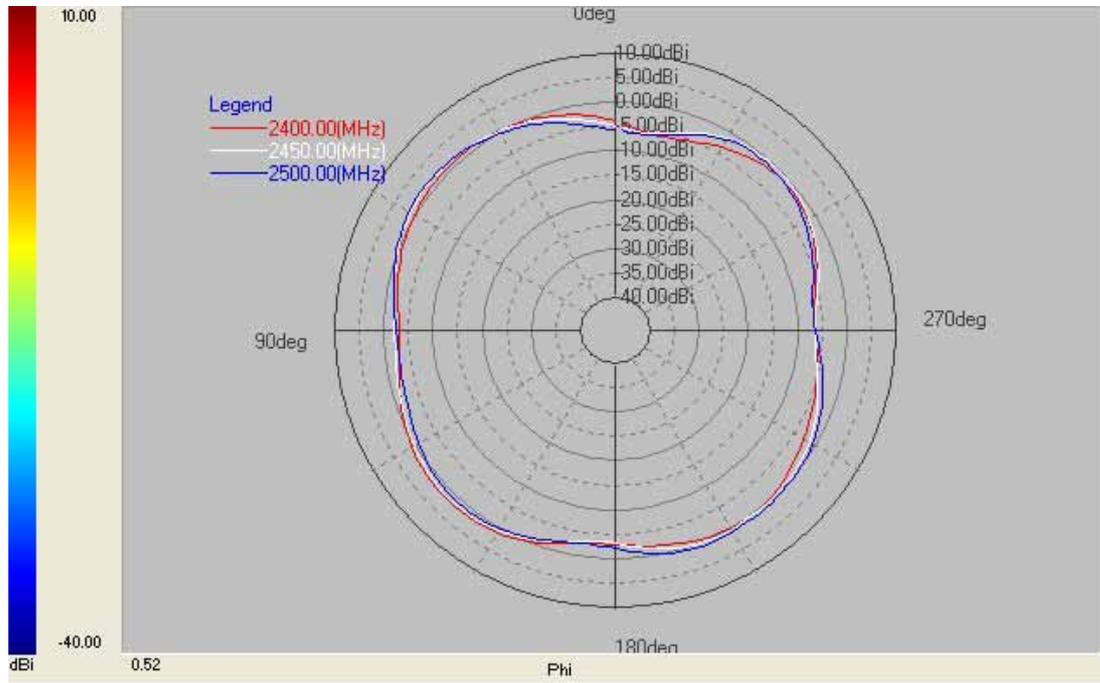
ANT01
X-Z Plane (E-total)



Y-Z Plane (E-total)



X-Y Plane (E-total)



三、Test Value

1-1 Return Loss

	ANT01(dB)		
2.40 GHz	-15.92		
2.45 GHz	-25.39		
2.50 GHz	-28.67		

Ant isolation

	Ant isolation 01&02(dB)	Ant isolation 01&03(dB)	Ant isolation 02&03(dB)
2.40 GHz	-24.96	-28.65	-20.24
2.45 GHz	-27.71	-27.03	-22.01
2.50 GHz	-23.74	-30.36	-25.73

1-2 Peak Gain

ANT01

	Gain (dBi)	Efficiency (%)
2.40GHz	3.14	60.98
2.45GHz	3.73	67.56
2.50GHz	3.80	67.84