



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: 永洋科技股份有限公司

PART NAME: PIFA

PART NO.: 11320Y11033A1

REVISION:

W. Y. P/NO.: C381-510146-A(SSR-90700)

REV.: X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	Rome	 
DATE :	4/24/09	

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

譚裕實業股份有限公司

Address: No. 326, Sec. 2, Kung Tao 5 Road, Hsin Chu City, Taiwan, R.O.C.

Tel: +886-3-5714225(REP.) Fax: +886-3-5713853 · +886-3-5723600

DONGGUAN AEON TECH CO., LTD.(CHINA)

東莞台霖電子通訊有限公司

Address: Hupan Industrial District, Tai Ling Shan Town, Dong Guan City, Guangdong, China

Tel: +86-769-85655858 Fax: +86-769-85655258

SUZHOU AEON TECH CO., LTD(CHINA)

蘇州華廣電通有限公司

Address: Limin North Road, LiLi Town, LiLi Industrial Park, LinHu Economic Zone

Wujiang City, Jiangsu Province, China

Tel: +86-512-63627980 Fax: +86-512-63627981

AEON TECH (SHANGHAI) CO., LTD(CHINA)

普翔電子貿易(上海)有限公司

Address: Flat 501, 5F, Build 27, NO.68, Guiqing Road, Huhui District, Shanghai, China

Tel: +86-21-64959151 Fax: +86-21-64959059

DONGGUAN PARNER TECH CO., LTD.(CHINA)

東莞倍能電子有限公司

Address: Hupan Industrial District, Shida Road, Tai Ling Shan Town,

Dong Guan City, Guangdong, China

Tel: +86-769-81662366 Fax: +86-769-81602681

Contents

<i>Item</i>	<i>Description</i>	<i>Page</i>
1.	規格表	 1
2.	成品圖	 2
3.	測試報告	 3~10
4.	RoHS 排外條款	 12

PIFA Antenna

Specification

1. Electrical Properties With Housing

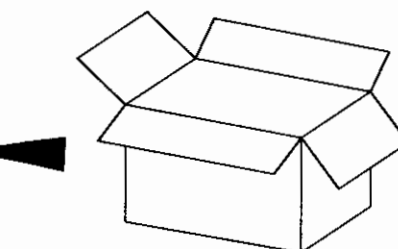
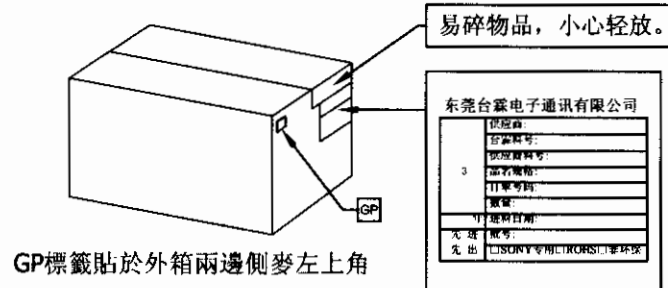
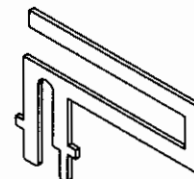
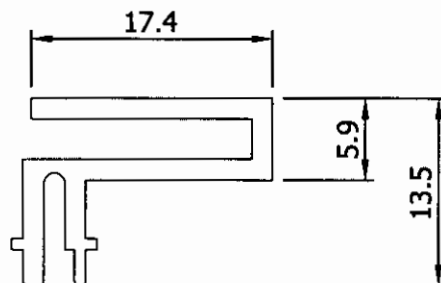
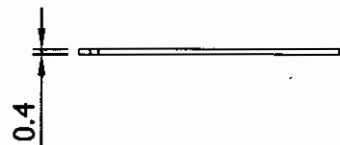
- 1.1 Frequency Range..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92:1 Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Efficiency..... 60%
- 1.6 Gain(peak)..... 4dBi
- 1.7 Polarization..... Linear ; Vertical
- 1.8 Admitted Power..... 1W

2. Physical Properties :

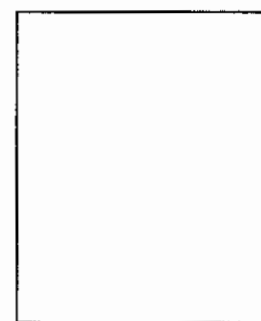
- 2.4 Operating Temp. -20°C ~ +65°C
- 2.5 Storage Temp. -30°C ~ +75°C

CG-

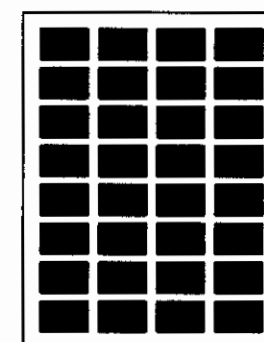
REV	DATE	DESCRIPTION
X1	4/20-2009	New Issue



5盒吸塑盤放入1個外箱中，一箱12800PCS



每一層放1PCS隔板



每格80pcs,共80*32= 2560PCS

1	PIFA	不銹鋼鍍銀	1	
NO	DESCRIPTION		QTY	REMARK

CUSTOMER'S SINGATURE

XX.	±5	APPROVED
X.	±3.0	
.X	±1.0	CHECKED
.XX	±0.5	
.XXX	±0.1	DRAWING

CUSTOMER: 永洋		
PART NO : 11320Y11033A1		
PARTNAME: PIFA		
W.Y P/NO : C381-510146-A		
REV	UNIT	FILE : SSR-90700
X1	mm	SHEET : 1/1

M.gear Wha Yu Group

THIS DRAWING, AND ITS INHERANT DESIGN CONCEPTS, ARE THE PROPERTY OF WHA YU AND AS SUCH MAY NOT BE COPIED, REPRODUCED, OR GIVEN TO THIRD PARTIES WITHOUT THE WRITTEN CONSENT OF WHA YU.

Antenna Design for 3G AP

(AMIT)

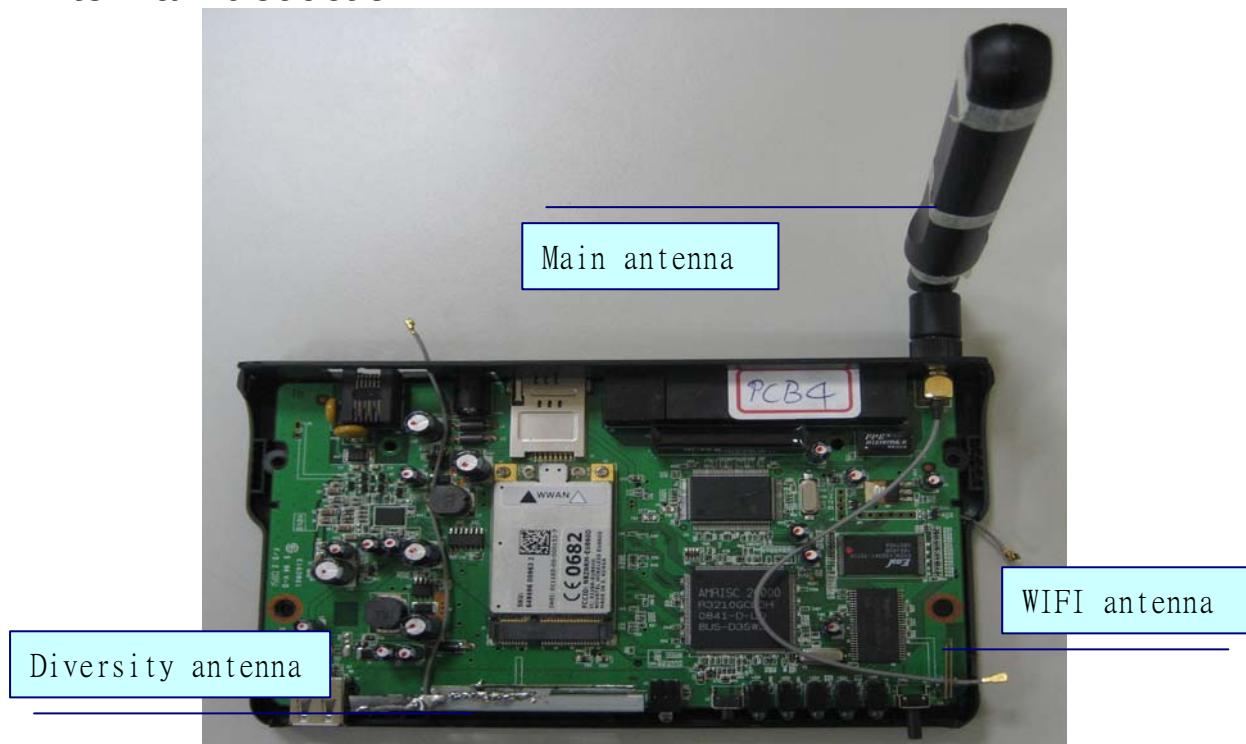
V1.05

Document Number	NP-8098
1 st Released Date	09/03/03
Last Released Date	
Author	Jerry Huang
Review by	Romeo Chou

Revised History

[illegible]

1 Antenna Introduction

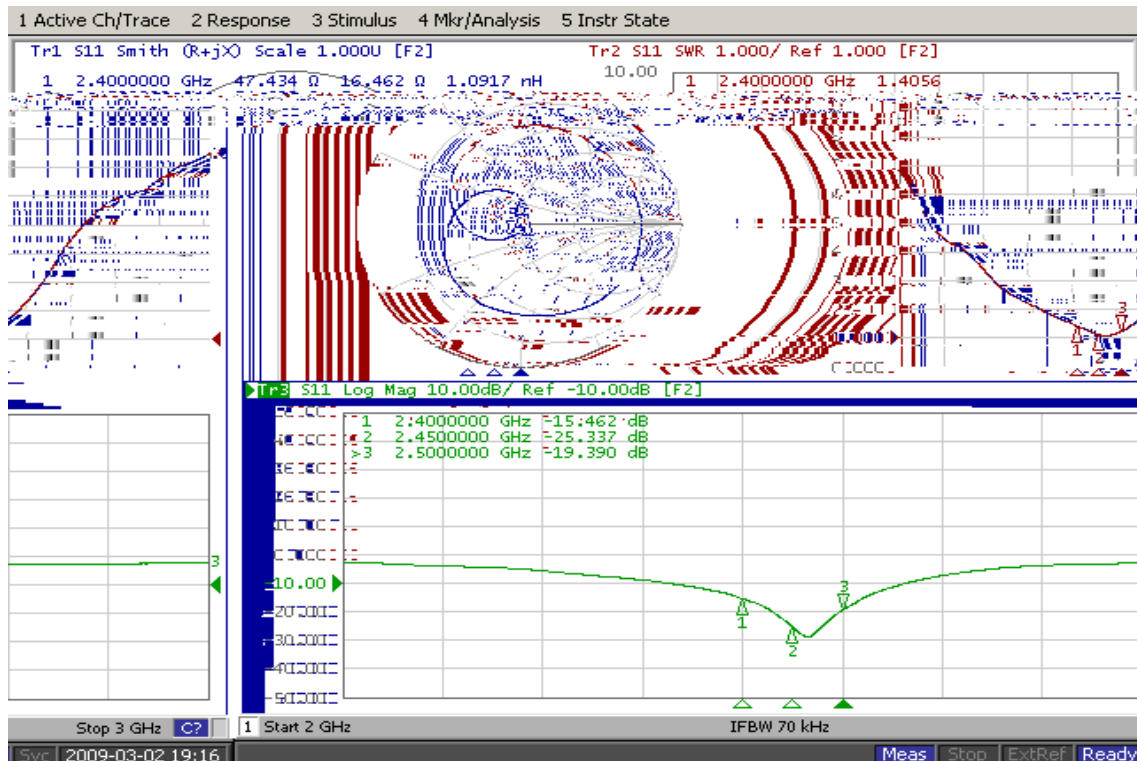


2 S-parameter test results

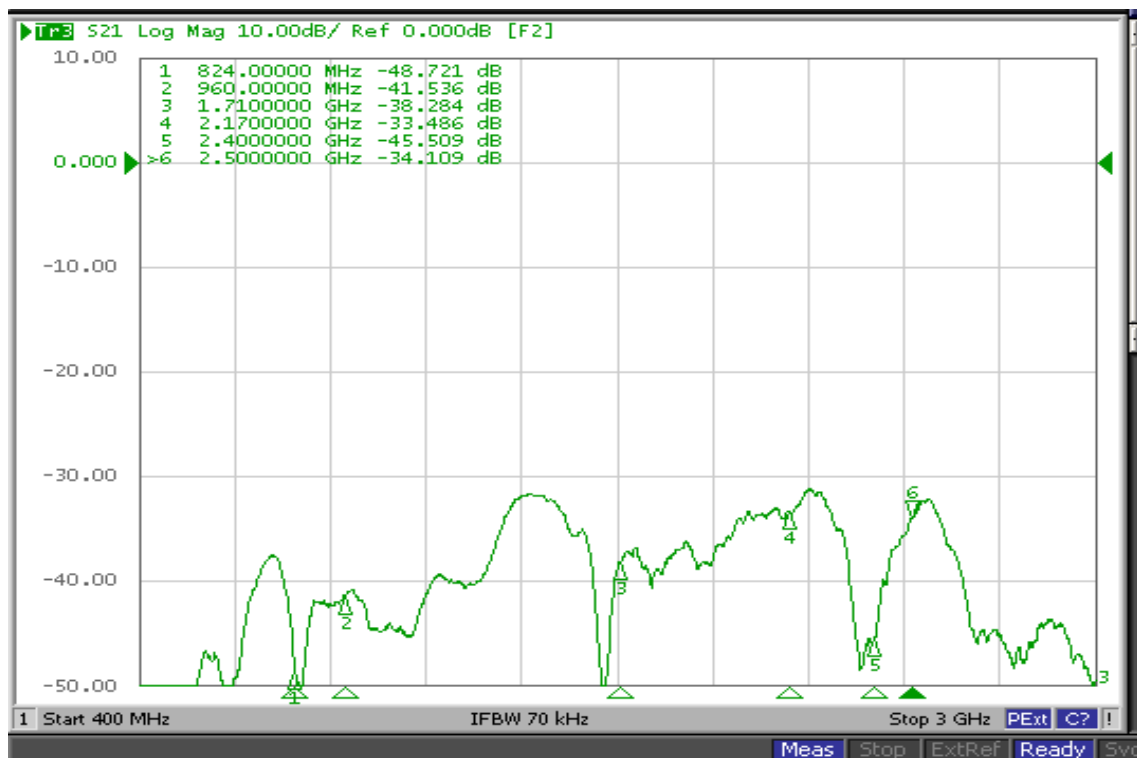
2.1 Measured method:



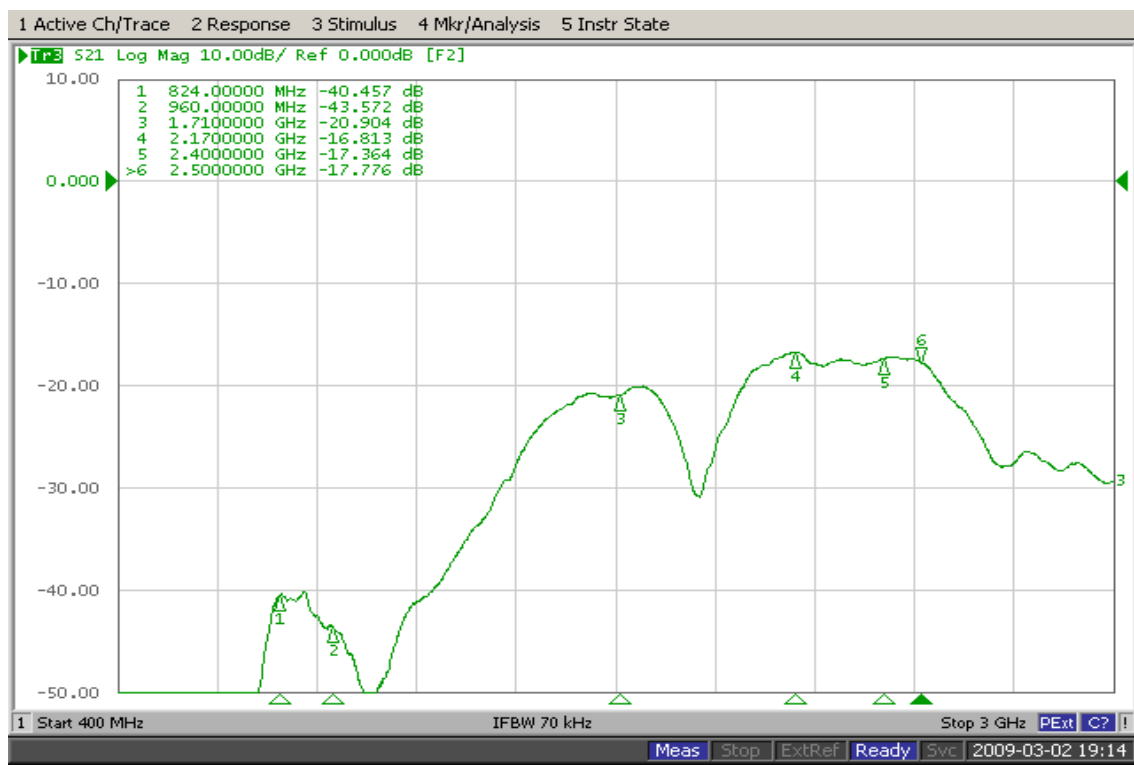
2.2 WIFI antenna



2.3 Isolation



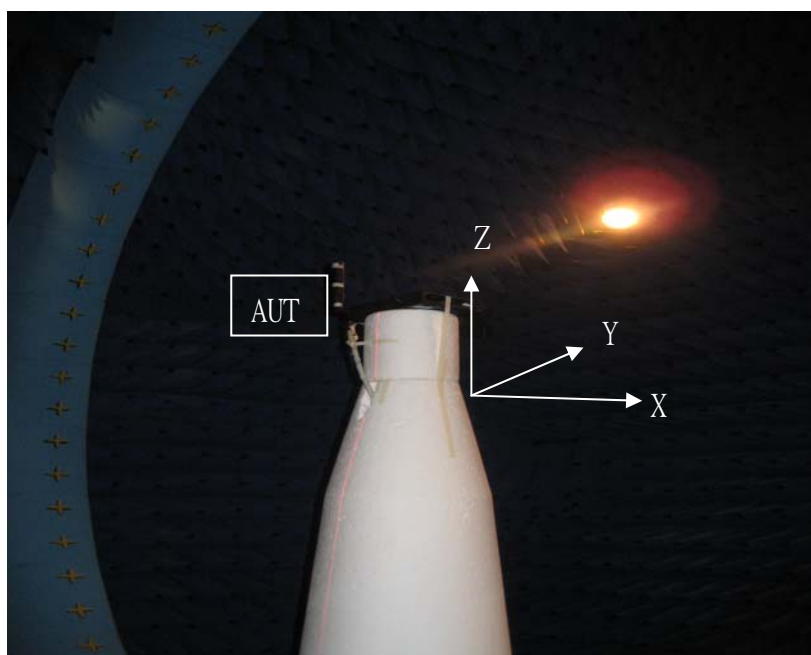
Main to WIFI

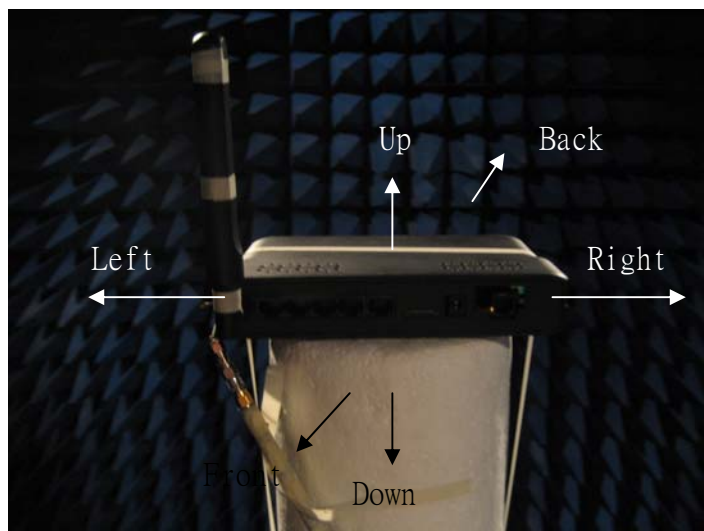


Diversity to WIFI

3 Gain & Patterns test results

3.1 Measurement setting

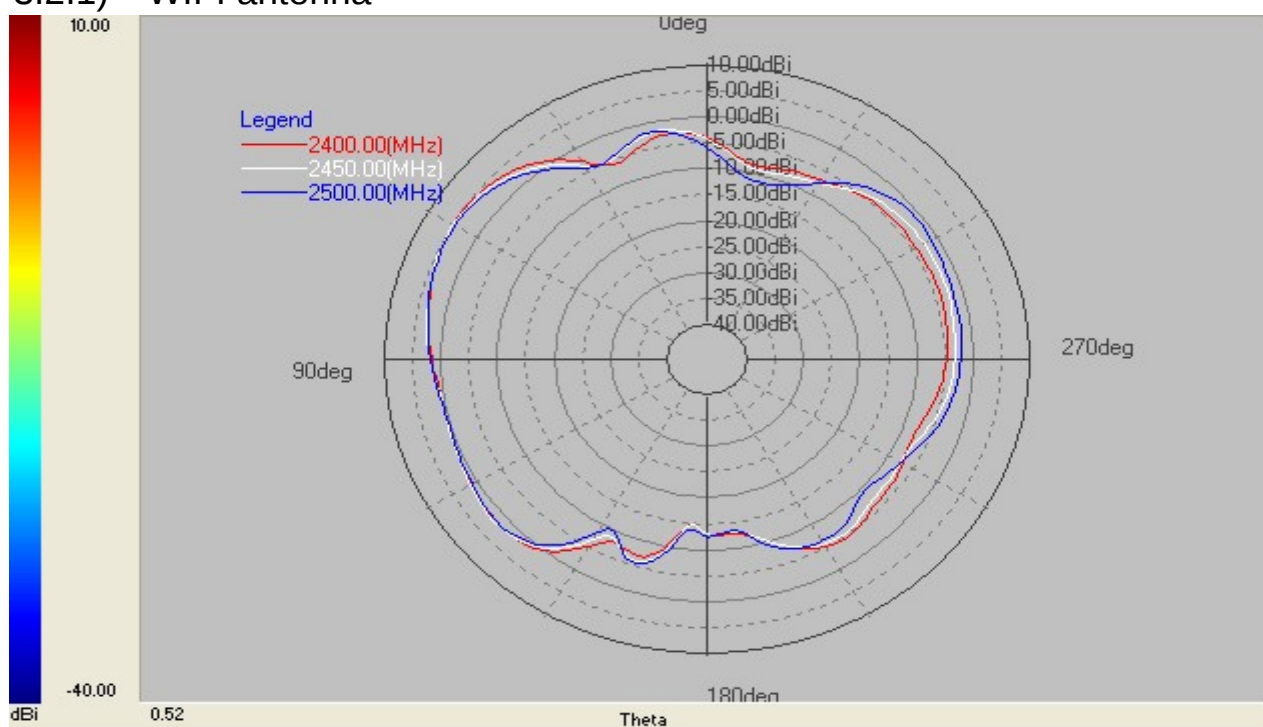




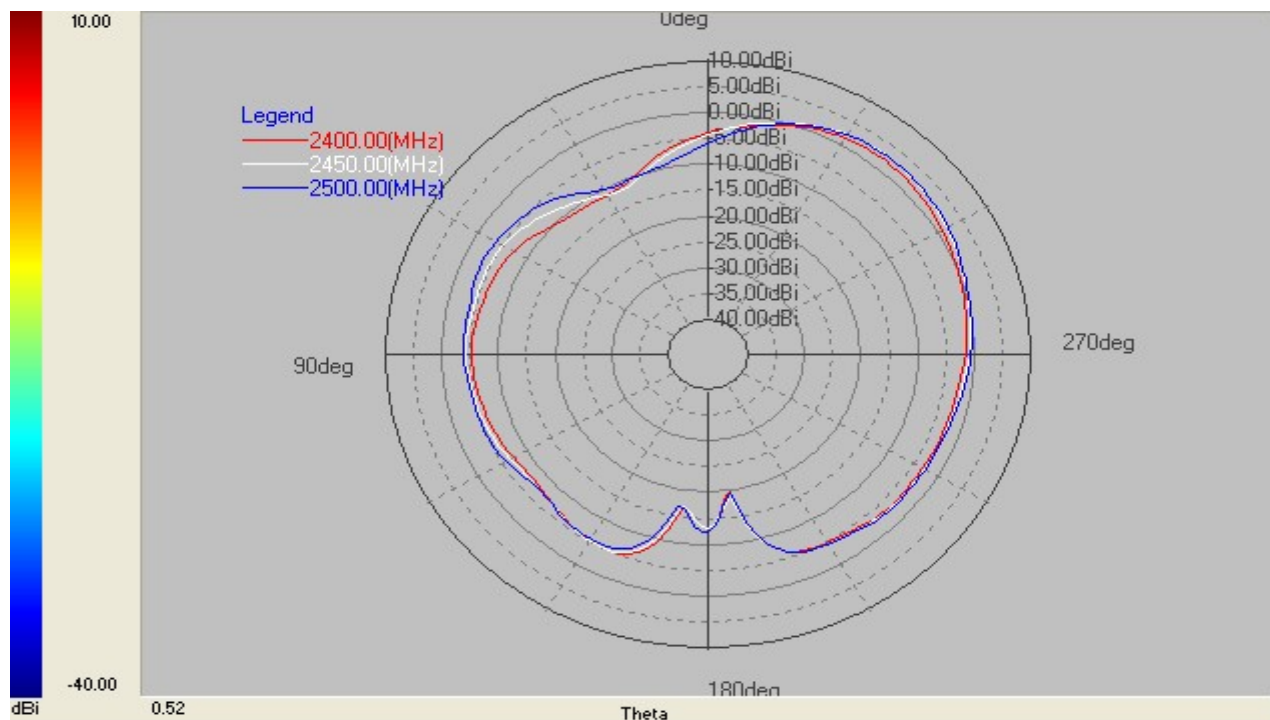
	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left

3.2 Radiation patterns

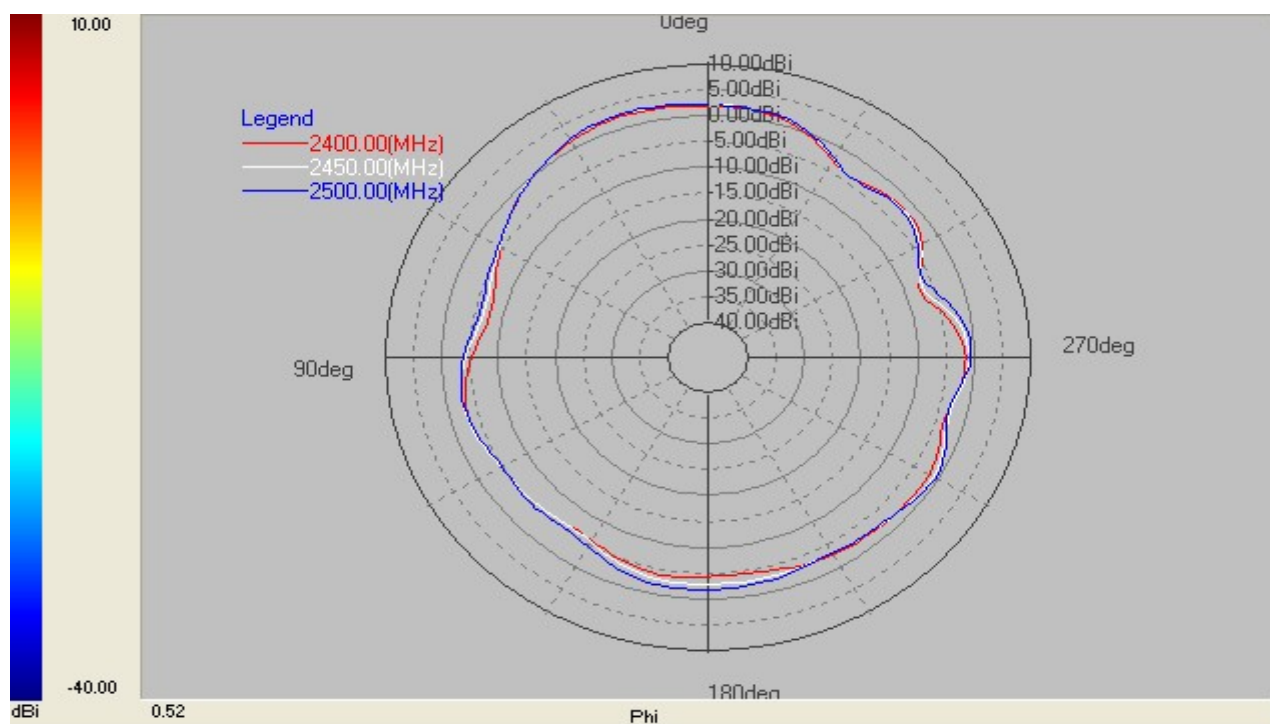
3.2.1) WIFI antenna



X-Z plane



Y-Z plane



X-Y plane

3.3 Gain table

3.3.1) WIFI antenna

Frequency (MHz)	X-Z plane Phi=0		Y-Z plane Phi=90		X-Y plane theta=90		E-total (dBi)	Efficiency (%)
	Peak Gain	Average Gain	Peak Gain	Average Gain	Peak Gain	Average Gain		
2400	4.74	-2.68	1.75	-4.41	1.90	-2.70	5.70	62.90
2450	4.72	-2.54	2.66	-3.77	2.40	-2.30	5.53	64.80
2500	4.41	-2.58	2.72	-3.60	2.45	-2.07	5.10	64.20

SGS Test Report

Product : PIFA

Contents

No	Description		Report No.	Page
1	PIFA	不銹鋼鍍鎳	CANEC0902007130 CE/2009/26412	P.12~15 P.16~25

Result for RoHS : PASS



譚裕實業股份有限公司
WHA YU INDUSTRIAL CO., LTD

RoHS 排外條款說明
RoHS Exclusive item Hazardous Substance

本公司保證，本產品均屬環保產品，皆符合 RoHS 法規要求，並適用於 RoHS 規定之排除條款。

We hereby confirm and assure that all parts and sub-materials delivered to your company comply with RoHS Standard and apply to RoHS Exclusive item.

RoHS 合金類排除條款要求如下：

RoHS Exclusive item :

合金種類 alloys item	鉛允許含量(ppm) Lead acceptance concentration
鋼材 steel	<3,500ppm
鋁合金 aluminium alloys	<4,000ppm
銅合金 copper alloys	<40,000ppm
焊錫 solder	<1,000ppm

立承諾書人

公司名稱：譚裕實業股份有限公司
company name: WHA YU INDUSTRIAL CO., LTD

公司地址：新竹市公道五路二段 326 號
company address: No.326, Sec 2, Kung Tao 5 Road, Hsin Chu City, Taiwan

聯絡電話：03-5714225
TEL: +886-3-5714225

負責人：_____ 林祺生 _____ 董事長
sign by

立約日期：西元 2006 年 9 月 05 日
Date: 2006. 09. 05

