Antenna Regulatory Information

• **Product type**	• **WLAN antenna**
• **Model number**	• **Parker**
• **Revision**	• **Rev. 1**
• **Manufacturer Part No. : Main / Aux / MIMO**	• **AMP8P-700023 (MIMO)** • **AMP6P-700000 (Main &Aux)**
• **Dell Part No. : Main / Aux / MIMO**	•

ADVANCED-CONNECTEK INC.

B1,No. 205, Sec.3, Bei-Hsin Rd., Hsin-Tien

Taipei, Taiwan, R.O.C

TEL：886-2-8913-1939

FAX：886-2-8913-2538

Http：//www.acon.com

Template Revision 083106

1. Specifications

Antenna Specifications

Antenna Type (Material, Technology)	PIFA
Antenna Model Number	**Parker**
Operating Frequency Range(s)	2.4GHz ~ 2.5GHz and 4.9GHz ~ 5.9GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	Main 1/ Aux -2.4/ MIMO 0.6
Peak Gain (802.11a / 5GHz Band) (dBi)	Main -2.1/ Aux-0.5/ MIMO 0.5
Radio Connector Type	IPEX 20278-111R-13
Mid-Line Connector Type (If Applicable)	N/A

Remark: Peak Gains include all system losses (connector, cable, etc)

Cable Specifications

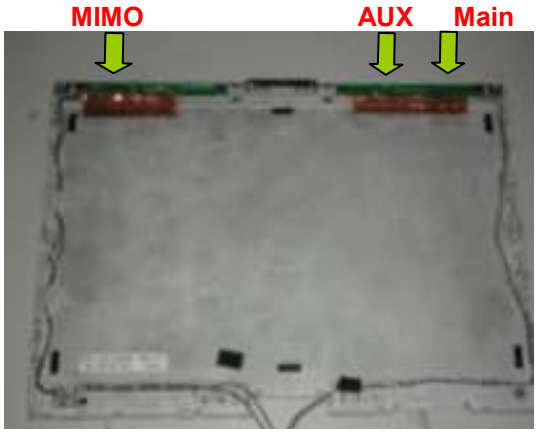
Cable Parameters	**Main**			**Aux**			**MIMO**		
	LCD Side	**Base Side**	**Total**	**LCD Side**	**Base Side**	**Total**	**LCD Side**	**Base Side**	**Total**
Length (mm)	N/A	N/A	497	N/A	N/A	537	N/A	N/A	493
Loss (Including Connectors) (dB, 2.4GHz / 5GHz)			1.5 / 2.3			1.2 / 1.8			0.5 / 0.8
Description (Color, Diameter, Manufacturer)	Color: White OD: 1.13 mm(low loss) Vendor: Kurabe/Hitachi/Sumitomo			Color: Black OD:1.13 mm(low loss) Vendor: Kurabe/Hitachi/Sumitomo			Color: Gray OD: 1.13mm(low loss) Vendor: Kurabe/Hitachi/Sumitomo		

2. Antenna Assembly

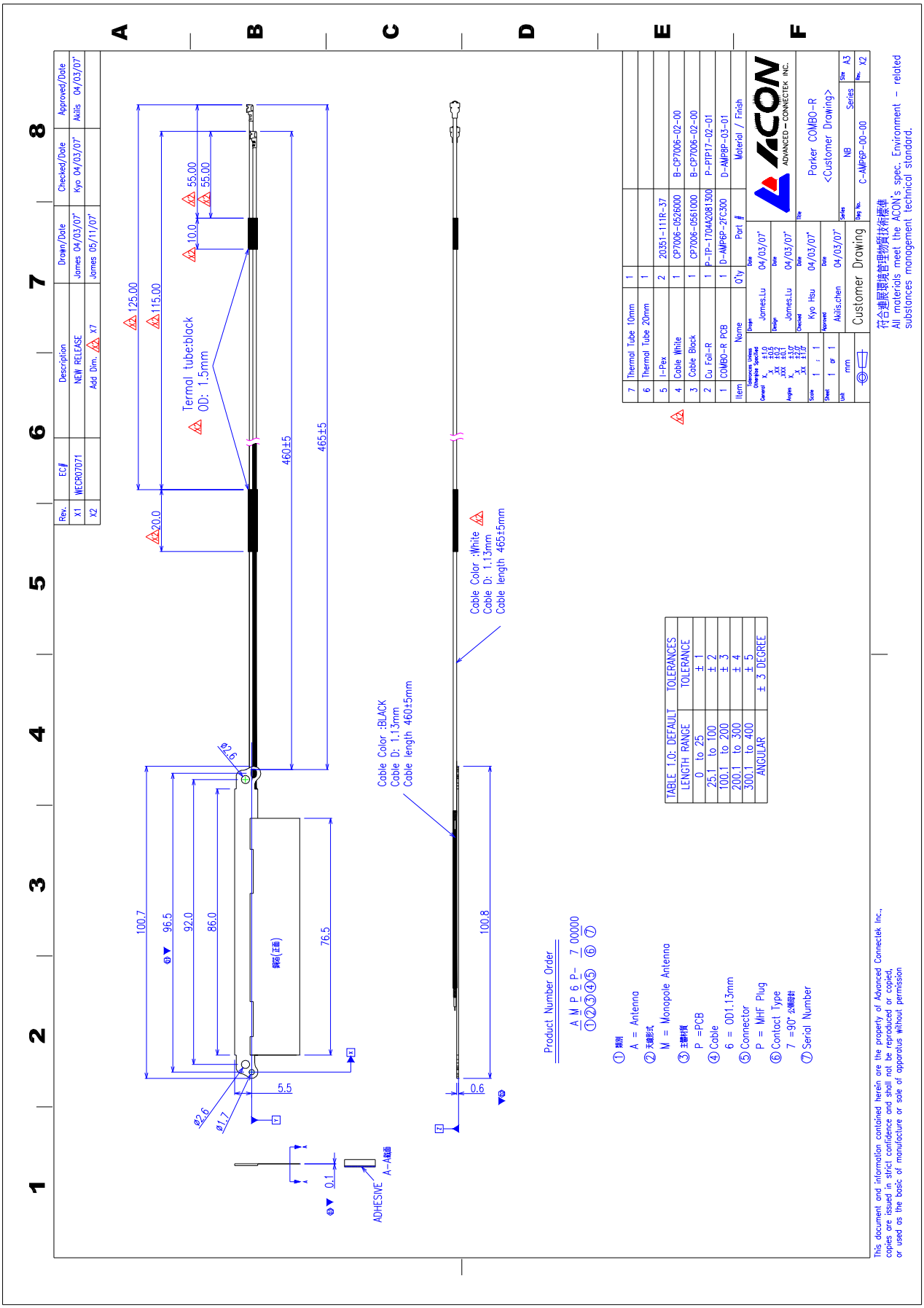
Main/Aux Antenna

MIMO Antenna

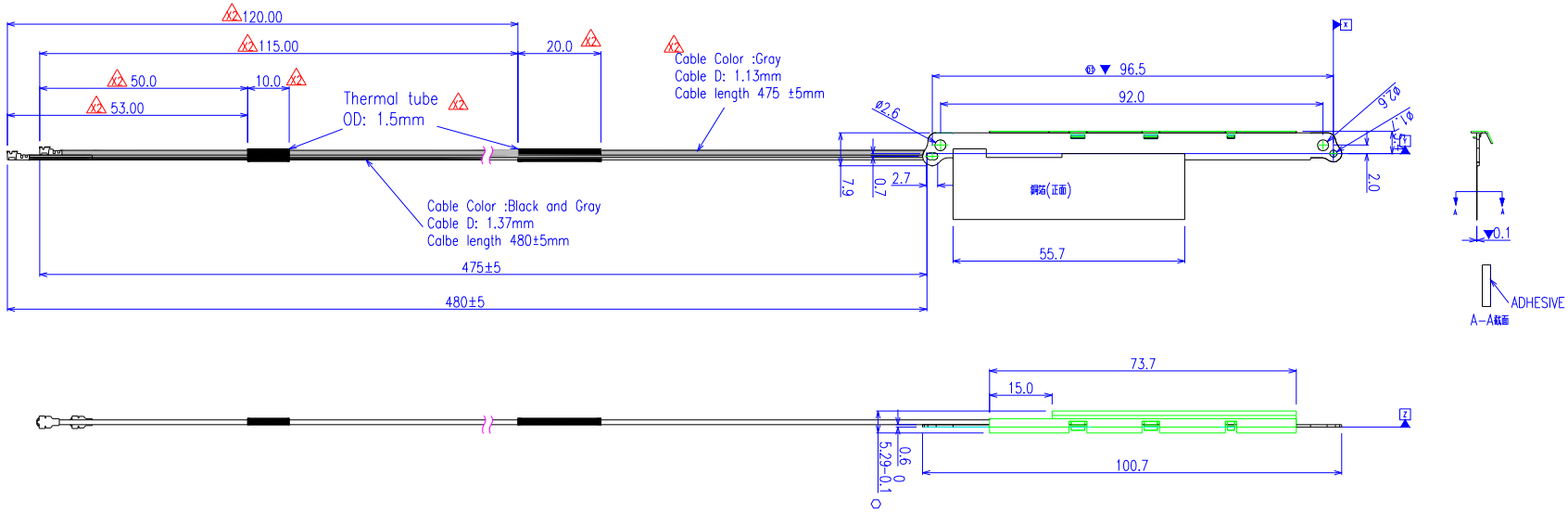
3. Antenna Assembly Installed in The Notebook



4. Mechanical Drawing of Antennas



Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
X1	WECR07071	NEW RELEASE	James 04/03/07'		
X2		Add Dim. ⚠2 X9	James 05/11/07'		



Product Number Order

A - A M P 8 P - 7 00023
①②③④⑤ ⑥ ⑦

① 類別
A = Antenna
② 天線形式
M = Monopole Antenna
③ 主體材質
P =PCB
④ Cable
8 = OD1.37mm
⑤ Connector
P = MHF Plug
⑥ Contact Type
7 =90° 公頭母針
⑦ Serial Number

TABLE 1.0: DEFAULT	TOLERANCES
LENGTH RANGE	TOLERANCE
0 to 25	± 1
25.1 to 100	± 2
100.1 to 200	± 3
200.1 to 300	± 4
300.1 to 400	± 5
ANGULAR	± 3 DEGREE

Item	Name	Q'ty	Part #	Material / Finish
9		1		
8	Thermal Tube 20mm	1		
7	Thermal Tube 10mm	1		
6	I-Pex	1	20351-111R-37	
⚠2 5	Cable Gray	1	C00006-0509000	B-CP7006-02-00
4	Cable Black/Gray	1	C00006-0560000	B-CP7006-02-00
3	Copper Foil-L	1	P-TP-176520081300	P-PTP17-02-00
2	COMBO-L PCB	1	D-AMP8P-1FC300	D-AMP8P-03-00
1	COMBO-L Ant	1	H-AMP8P-04NC004	H-AMP8P-03-00

Tolerances Unless Otherwise Specified
General X. ±1.0, .X ±0.5, .XX ±0.2, .XXX ±0.1
Angles X. ±3.0°, .X ±2.0°, .XX ±1.0°
Scale 1 : 1
Sheet 1 or 1
Unit mm

Drawn James.Lu 04/03/07'
Design James.Lu 04/03/07'
Checked Kyo Hsu 04/03/07'
Approved Akilis.chen 04/03/07'

Customer Drawing

ACON ADVANCED — CONNECTEK INC.

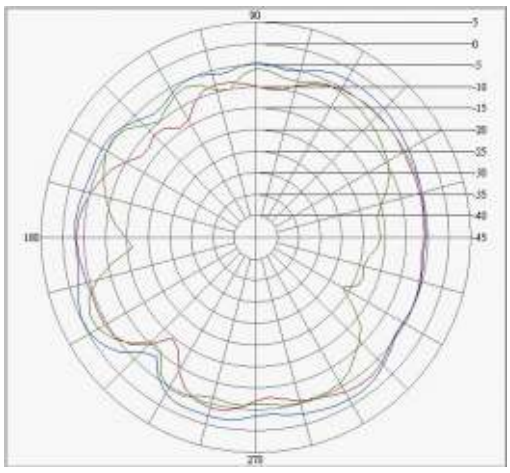
Title: Parker COMBO-L
Series: AMP8P Series
Size: A3
Dwg No.: A-AMP8P-03-00
Rev.: X2

符合連展環境管理物質技術標準
All materials meet the ACON's spec. Environment – related substances management technical standard.

5. Gain Patterns

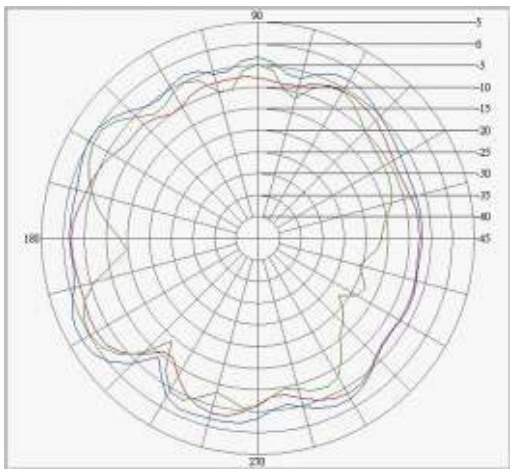
- Main Antenna H-pol. V-pol. H+V

Fre. = 2412 MHz



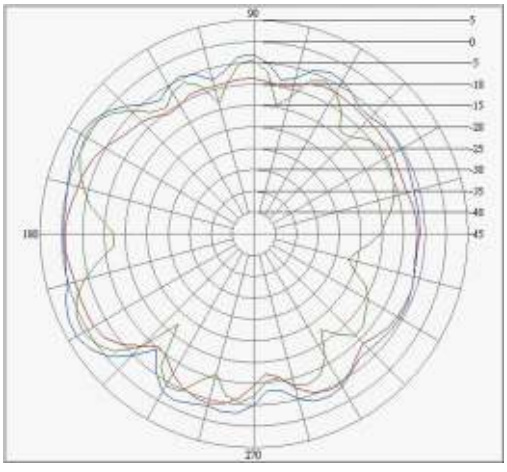
H-pol. (Aver.)	-5.9 dBi
H-pol. (Max.)	-3.0 dBi
V-pol (Aver.)	-7.4 dBi
V-pol. (Max.)	-2.3dBi
H+V (Aver.)	-3.6 dBi
H+V (Max.)	-0.2 dBi

Fre. = 2437 MHz



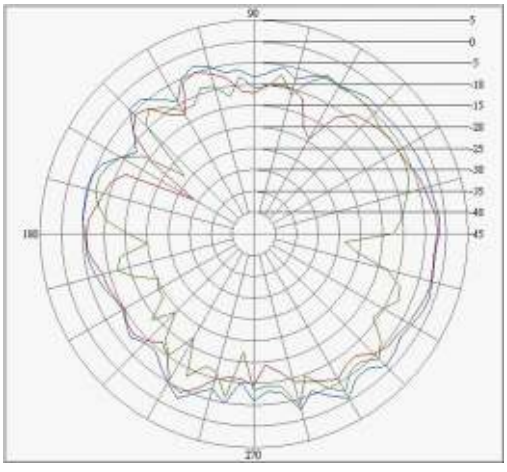
H-pol. (Aver.)	-5.7 dBi
H-pol. (Max.)	-1.8 dBi
V-pol (Aver.)	-6.7dBi
V-pol. (Max.)	-0.3 dBi
H+V (Aver.)	-3.1dBi
H+V (Max.)	2.1 dBi

Fre. = 2462 MHz



H-pol. (Aver.)	-5.6 dBi
H-pol. (Max.)	-0.8dBi
V-pol (Aver.)	-6.0 dBi
V-pol. (Max.)	1.0dBi
H+V (Aver.)	-2.8 dBi
H+V (Max.)	2.6 dBi

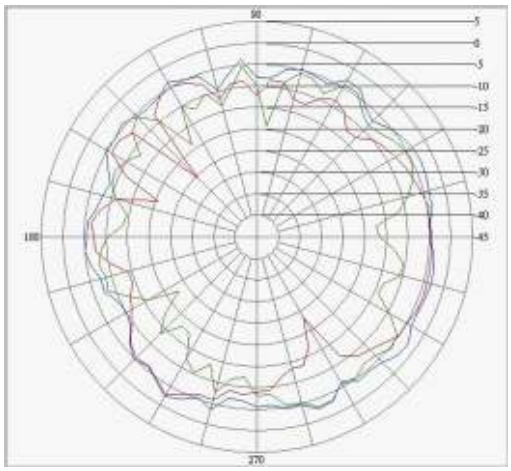
Fre. = 4900 MHz



H-pol. (Aver.)	-2.1 dBi
H-pol. (Max.)	-6.7dBi
V-pol (Aver.)	-2.2 dBi
V-pol. (Max.)	-8.4 dBi
H+V (Aver.)	-4.4dBi
H+V (Max.)	-0.6dBi

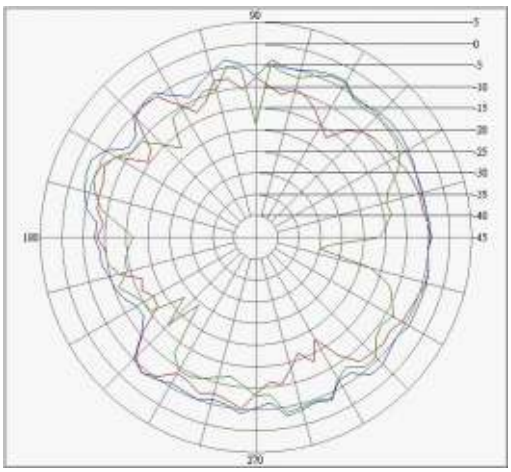
H-pol. V-pol. H+V

Fre. = 5150 MHz



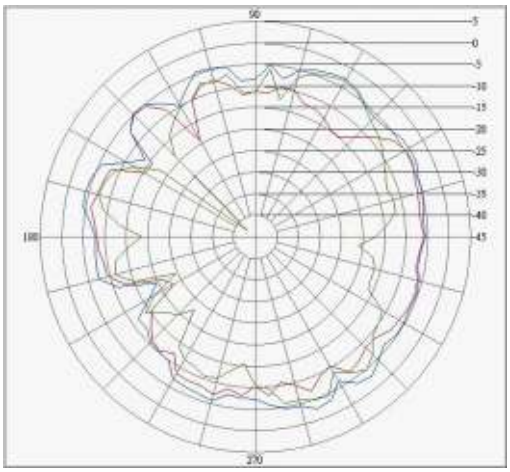
H-pol. (Aver.)	-7.5 dBi
H-pol. (Max.)	-2.8 dBi
V-pol (Aver.)	-8.3 dBi
V-pol. (Max.)	-3.1 dBi
H+V (Aver.)	-4.9 dBi
H+V (Max.)	-2.1 dBi

Fre. = 5350 MHz



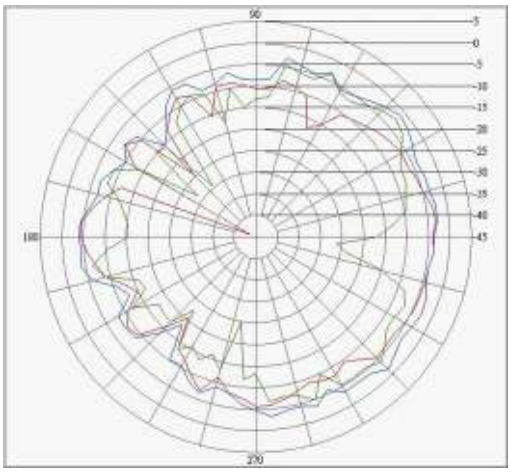
H-pol. (Aver.)	-7.9 dBi
H-pol. (Max.)	-3.9 dBi
V-pol (Aver.)	-8.3 dBi
V-pol. (Max.)	-3.5 dBi
H+V (Aver.)	-5.1 dBi
H+V (Max.)	-2.9 dBi

Fre. = 5470 MHz



H-pol. (Aver.)	-8.4 dBi
H-pol. (Max.)	-4.5 dBi
V-pol (Aver.)	-9.3 dBi
V-pol. (Max.)	-3.1 dBi
H+V (Aver.)	-5.8 dBi
H+V (Max.)	-2.6 dBi

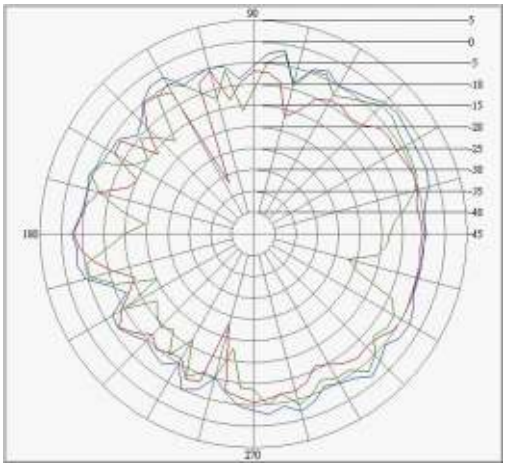
Fre. = 5725 MHz



H-pol. (Aver.)	-7.6 dBi
H-pol. (Max.)	-3.1 dBi
V-pol (Aver.)	-8.7 dBi
V-pol. (Max.)	-2.5 dBi
H+V (Aver.)	-5.1 dBi
H+V (Max.)	-1.3 dBi

H-pol. V-pol. H+V

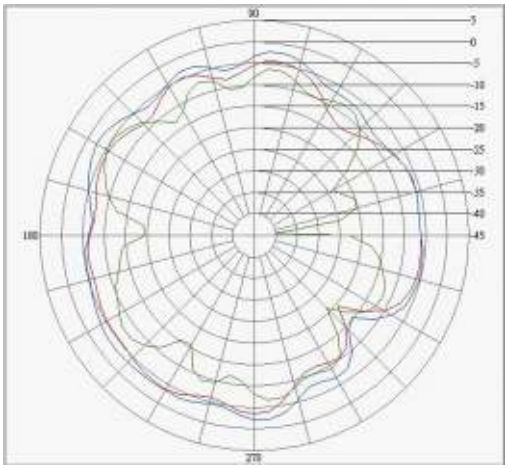
Fre. = 5875 MHz



H-pol. (Aver.)	-7.4dBi
H-pol. (Max.)	-2.8 dBi
V-pol (Aver.)	-7.3 dBi
V-pol. (Max.)	-2.2 dBi
H+V (Aver.)	-4.3 dBi
H+V (Max.)	-1.0 dBi

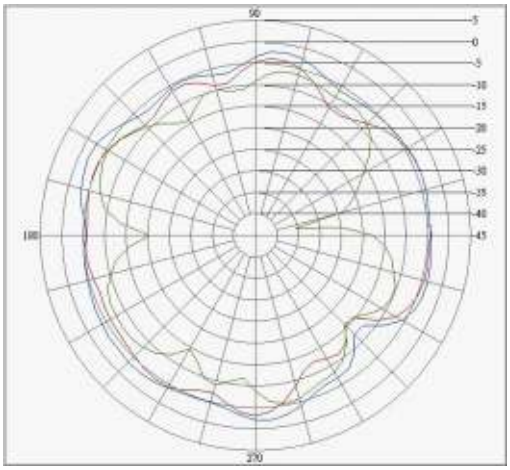
- Aux Antenna

Fre. = 2412 MHz



H-pol. (Aver.)	-6.5 dBi
H-pol. (Max.)	-3.5 dBi
V-pol (Aver.)	-10.0 dBi
V-pol. (Max.)	-5.3 dBi
H+V (Aver.)	-4.9 dBi
H+V (Max.)	-2.1 dBi

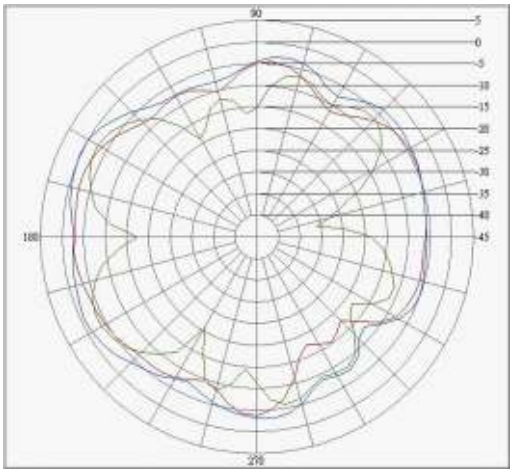
Fre. = 2437 MHz



H-pol. (Aver.)	-6.0 dBi
H-pol. (Max.)	-3.2 dBi
V-pol (Aver.)	-9.4 dBi
V-pol. (Max.)	-5.4 dBi
H+V (Aver.)	-4.4 dBi
H+V (Max.)	-1.9 dBi

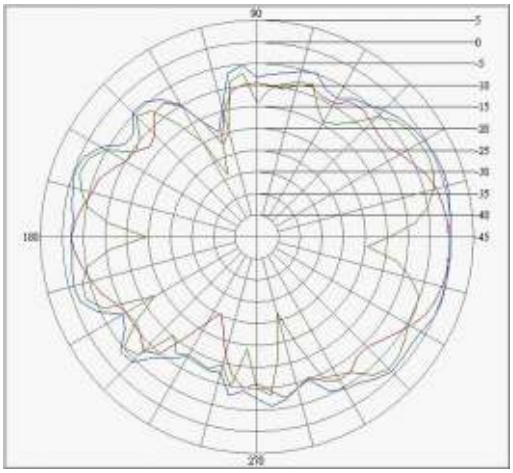
H-pol. V-pol. H+V

Fre. = 2462 MHz



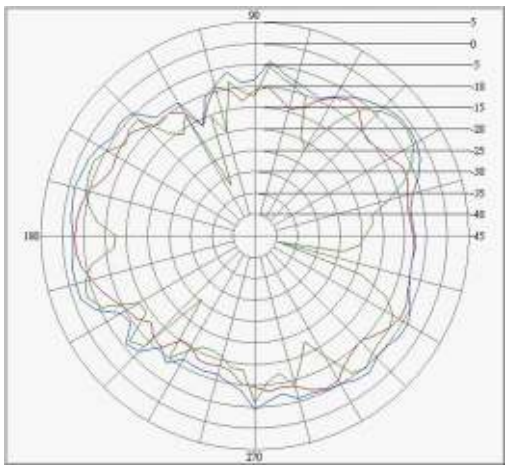
H-pol. (Aver.)	-6.0 dBi
H-pol. (Max.)	-2.4 dBi
V-pol (Aver.)	-8.5 dBi
V-pol. (Max.)	-2.6 dBi
H+V (Aver.)	-4.1dBi
H+V (Max.)	0.2 dBi

Fre. = 4900 MHz



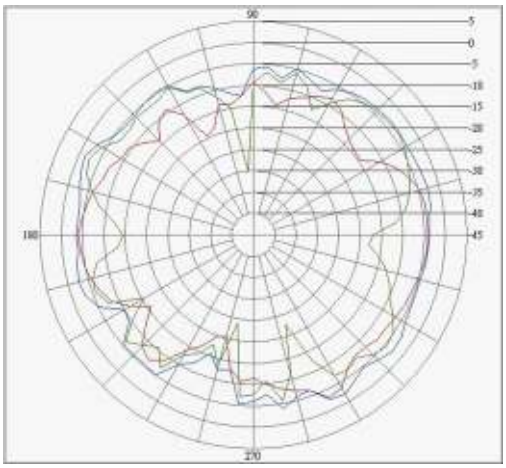
H-pol. (Aver.)	-6.2 dBi
H-pol. (Max.)	-0.5 dBi
V-pol (Aver.)	-6.6 dBi
V-pol. (Max.)	-1.3 dBi
H+V (Aver.)	-3.4 dBi
H+V (Max.)	0.7 dBi

Fre. = 5150 MHz



H-pol. (Aver.)	-8.1 dBi
H-pol. (Max.)	-2.9 dBi
V-pol (Aver.)	-8.0 dBi
V-pol. (Max.)	-1.7 dBi
H+V (Aver.)	-5.0 dBi
H+V (Max.)	-1.0 dBi

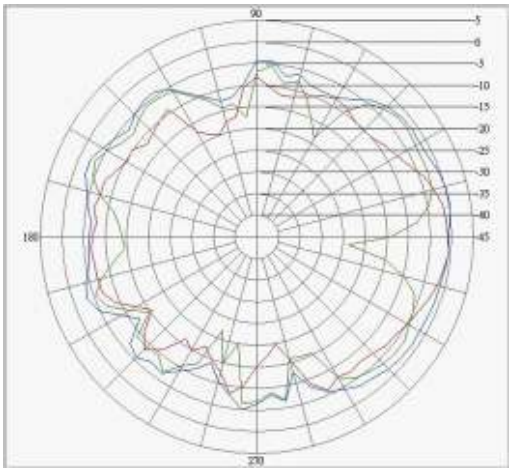
Fre. = 5350 MHz



H-pol. (Aver.)	-7.8 dBi
H-pol. (Max.)	-3.1 dBi
V-pol (Aver.)	-7.6 dBi
V-pol. (Max.)	-2.5 dBi
H+V (Aver.)	-4.7 dBi
H+V (Max.)	-1.4 dBi

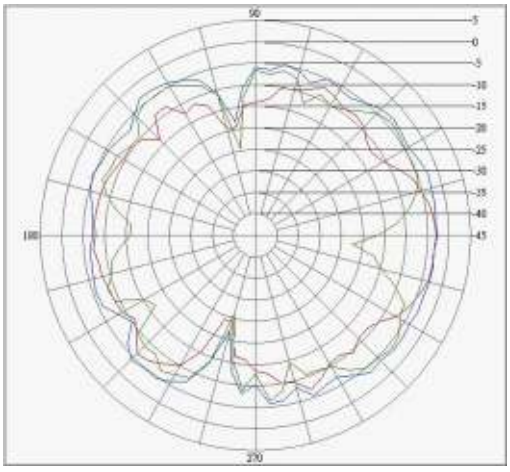
H-pol. V-pol. H+V

Fre. = 5470 MHz



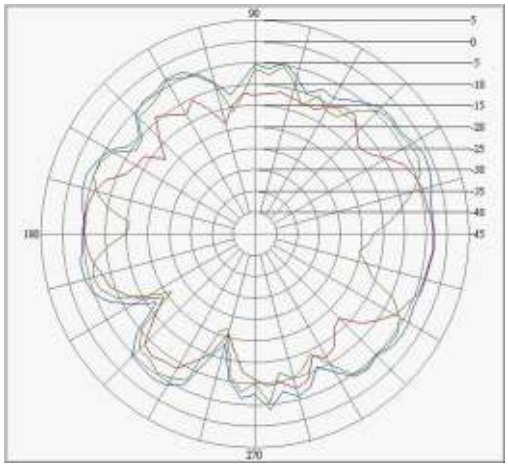
H-pol. (Aver.)	-7.2 dBi
H-pol. (Max.)	-0.6 dBi
V-pol (Aver.)	-7.0 dBi
V-pol. (Max.)	-2.3 dBi
H+V (Aver.)	-4.1 dBi
H+V (Max.)	0.2 dBi

Fre. = 5725 MHz



H-pol. (Aver.)	-8.4 dBi
H-pol. (Max.)	-3.0 dBi
V-pol (Aver.)	-8.1 dBi
V-pol. (Max.)	-3.8 dBi
H+V (Aver.)	-5.2 dBi
H+V (Max.)	-2.4 dBi

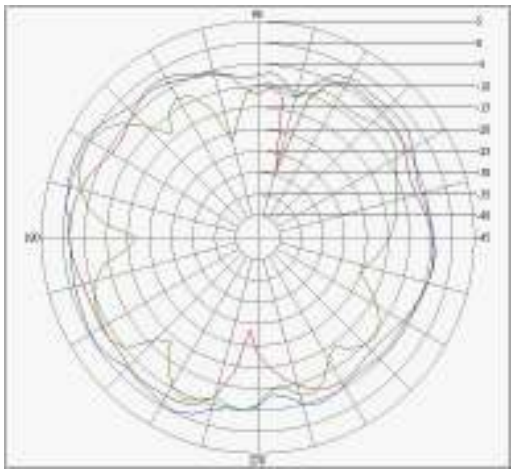
Fre. = 5875 MHz



H-pol. (Aver.)	-8.6 dBi
H-pol. (Max.)	-3.1 dBi
V-pol (Aver.)	-7.4 dBi
V-pol. (Max.)	-2.9 dBi
H+V (Aver.)	-4.9 dBi
H+V (Max.)	-1.4 dBi

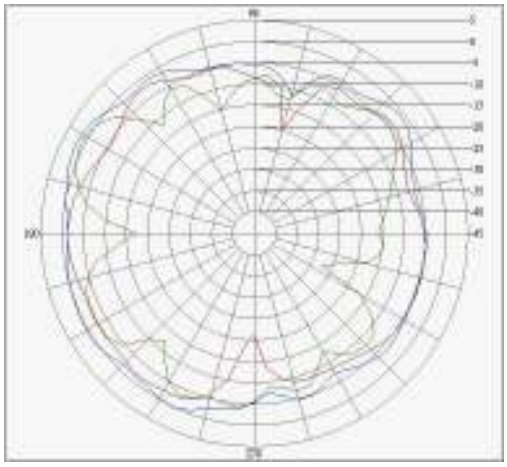
- MIMO Antenna H-pol. V-pol. H+V

Fre. = 2412 MHz



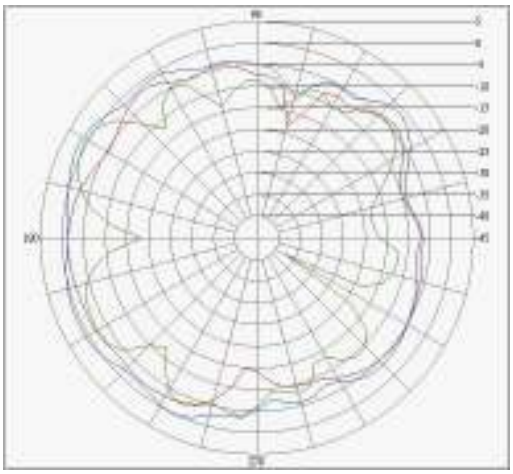
H-pol. (Aver.)	-5 dBi
H-pol. (Max.)	-1.5 dBi
V-pol (Aver.)	-7.2 dBi
V-pol. (Max.)	-0.2dBi
H+V (Aver.)	-2.9 dBi
H+V (Max.)	1.1 dBi

Fre. = 2437 MHz



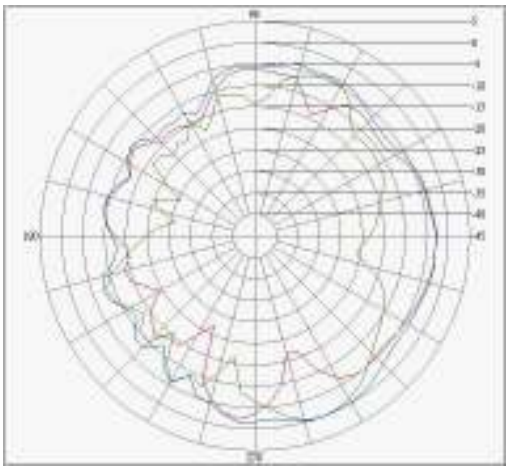
H-pol. (Aver.)	-4.7 dBi
H-pol. (Max.)	-1.3 dBi
V-pol (Aver.)	-6.3 dBi
V-pol. (Max.)	0.6 dBi
H+V (Aver.)	-2.4 dBi
H+V (Max.)	1.6 dBi

Fre. = 2462 MHz



H-pol. (Aver.)	-4.8dBi
H-pol. (Max.)	-1.3 dBi
V-pol (Aver.)	-6.5 dBi
V-pol. (Max.)	0.4 dBi
H+V (Aver.)	-2.5 dBi
H+V (Max.)	1.4 dBi

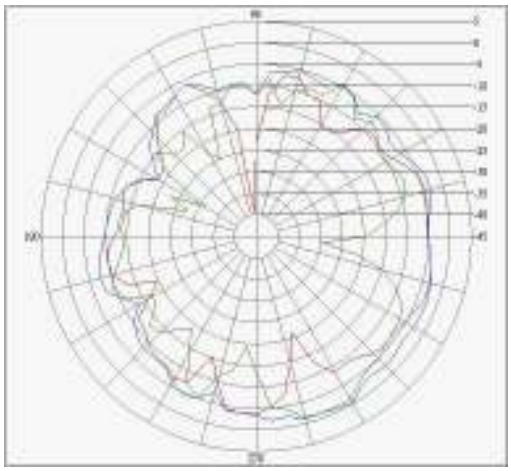
Fre. = 4900 MHz



H-pol. (Aver.)	-7.4 dBi
H-pol. (Max.)	-2.2 dBi
V-pol (Aver.)	-8.3 dBi
V-pol. (Max.)	0 dBi
H+V (Aver.)	-4.8 dBi
H+V (Max.)	0.1dBi

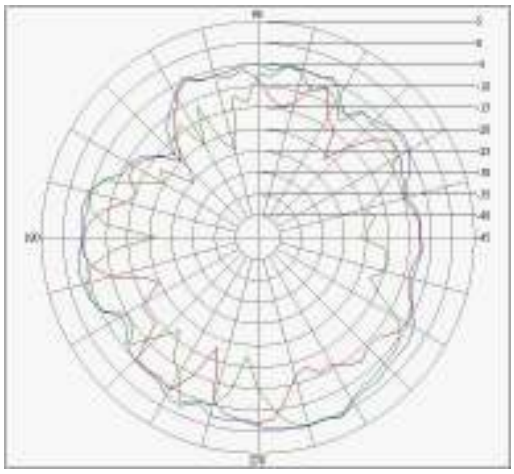
H-pol. V-pol. H+V

Fre. = 5150 MHz



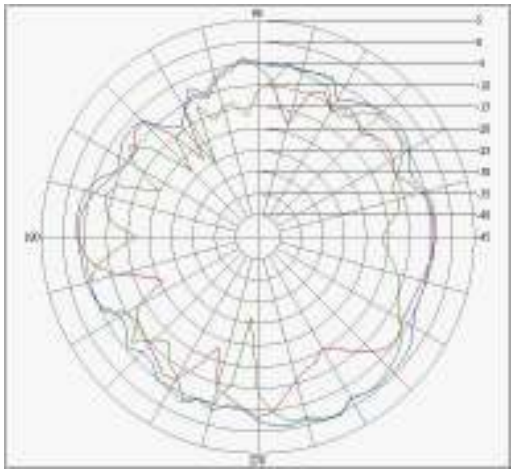
H-pol. (Aver.)	-8.1 dBi
H-pol. (Max.)	-3.3 dBi
V-pol (Aver.)	-8.6 dBi
V-pol. (Max.)	-1.2 dBi
H+V (Aver.)	-5.3 dBi
H+V (Max.)	-0.5 dBi

Fre. = 5350 MHz



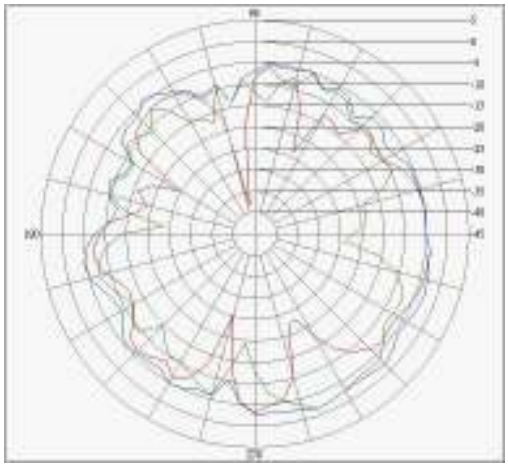
H-pol. (Aver.)	-7.9 dBi
H-pol. (Max.)	-2 dBi
V-pol (Aver.)	-6.9 dBi
V-pol. (Max.)	0.5 dBi
H+V (Aver.)	-4.4 dBi
H+V (Max.)	0.8 dBi

Fre. = 5470 MHz



H-pol. (Aver.)	-7.6 dBi
H-pol. (Max.)	-3.4 dBi
V-pol (Aver.)	-6.8 dBi
V-pol. (Max.)	0.1 dBi
H+V (Aver.)	-4.2dBi
H+V (Max.)	0.3 dBi

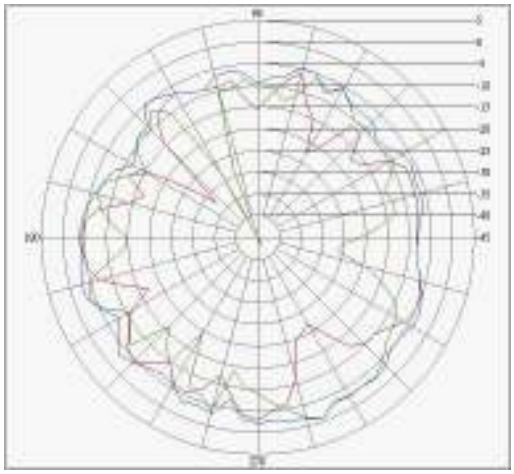
Fre. = 5725 MHz



H-pol. (Aver.)	-8.2 dBi
H-pol. (Max.)	-3.2 dBi
V-pol (Aver.)	-8.4 dBi
V-pol. (Max.)	-1.5 dBi
H+V (Aver.)	-5.3 dBi
H+V (Max.)	-1.5 dBi

H-pol. V-pol. H+V

Fre. = 5875 MHz



H-pol. (Aver.)	-8.3 dBi
H-pol. (Max.)	-3 dBi
V-pol (Aver.)	-7.9dBi
V-pol. (Max.)	-0.9 dBi
H+V (Aver.)	-5.1 dBi
H+V (Max.)	-0.9 dBi