

Drongo Antenna Information

Wistron NeWeb Corporation

Drongo Antenna Information

I. Antenna Assembly Specifications

Antenna assembly overview: Peak Gain including cable loss.

Designator	Manufacture	Antenna type	Cable Assembly Info.	Peak Gain W/ Cable loss (dBi)
Main antenna (P/N:81.EBF15.001)	WNC	Metal PIFA	1.(1)Cable P/N:J12B1394-2,50ohm cable,length:323mm,diameter 1.13mm. (2)connector P/N:20278-101R-13, I-PEX or WNC connector .	2400-2500MHz -0.2 dBi (peak)
				5150-5350MHz 2.81dBi (peak)
				5470-5825MHz 1.93 dBi (peak)
Auxiliary antenna (P/N:81.EBF15.002)	WNC	Metal PIFA	1.(1)Cable P/N:J12B1394-1,50ohm cable,length:460mm,diameter 1.13mm. (2)connector P/N:20278-101R-13 ,I-PEX or WNC connector.	2400-2500MHz 2.48 dBi (peak)
				5150-5350MHz 2.25 dBi (peak)
				5470-5825MHz 2.88 dBi (peak)

Antenna overview: Peak Gain not including cable loss.

Antenna Designator	Manufacture	Antenna type	Peak Gain w/o Cable Loss (dBi)
Main antenna (P/N:81.EBF15.001)	WNC	Metal PIFA	2400-2500MHz 0.8 dBi (peak)
			5150-5350MHz 4.31dBi (peak)
			5470-5825MHz 3.53dBi (peak)
			)
Auxiliary antenna (P/N:81.EBF15.002)	WNC	Metal PIFA	2400-2500MHz 3.88 dBi (peak)
			5150-5350MHz 4.45 dBi (peak)
			5470-5825MHz 5.18 dBi (peak)

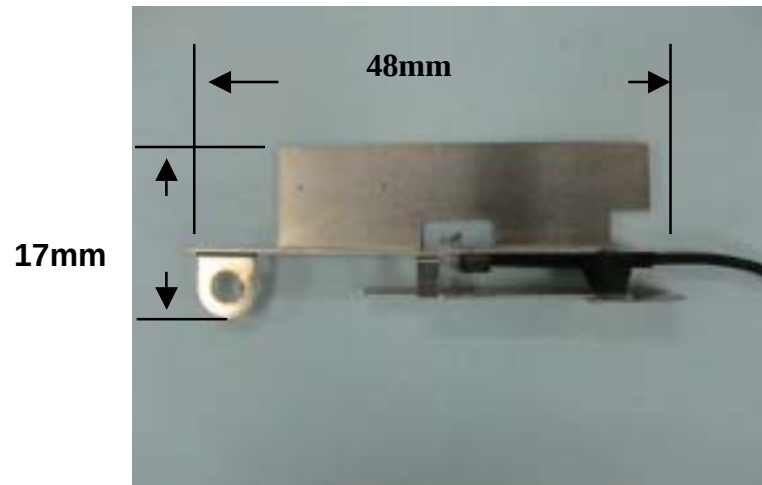
Cable assembly overview: Cable loss (including connector).

Designator	Manufacture	Cable type and length	VSWR	Cable Loss (dBi)
1. P/N: 50.CAB02.011 2. P/N:50.EBF03.001 For use with the Main antenna	WNC	1.(1)Cable P/N:J12B1394-coaxil cable,length:323mm,dia 1.13mm. (2)connector P/N:20278-1,I-PEX. 2.(1)Cable P/N:	2400-2500MHz <u>1.59</u> max	2400-2500MHz <u>1</u> dBi (peak)
			5150-5350MHz <u>1.53</u> max	5150-5350MHz <u>1.5</u> dBi (peak)
			5470-5825MHz <u>1.84</u> max	5470-5825MHz <u>1.6</u> dBi (peak)
1. P/N: 50.EBF01.001 2. P/N:50.EBF02.001 For use with the Auxiliary antenna	WNC	1.(1)Cable P/N:J12B1394-coaxil cable,length:460mm,dia 1.13mm. (2)connector P/N:20278-1,I-PEX. 2.	2400-2500MHz <u>1.46</u> max	2400-2500MHz <u>1.4</u> dBi (peak)
			5150-5350MHz <u>1.95</u> max	5150-5350MHz <u>2.2</u> dBi (peak)
			5470-5825MHz <u>2.05</u> max	5470-5825MHz <u>2.3</u> dBi (peak)

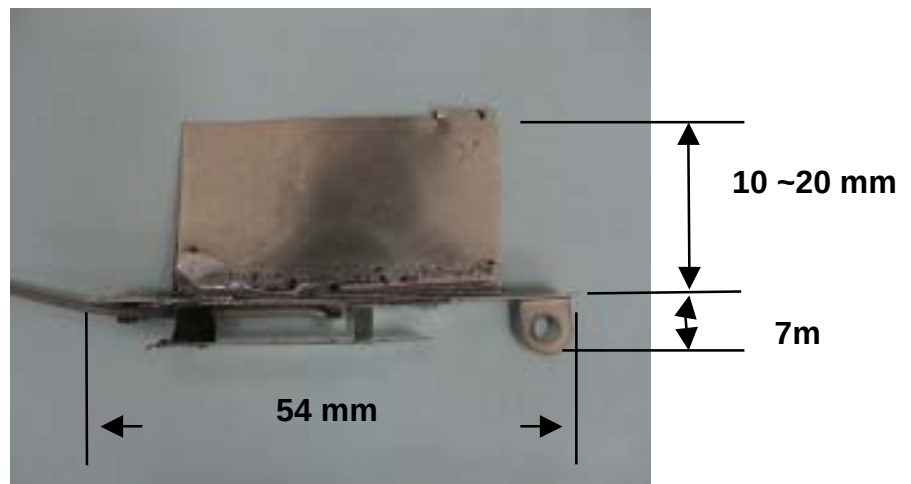
NOTE:

For Japan, Korea, and China the antenna data is the same as what this document requests:

- **Main antenna dimensioned drawing**



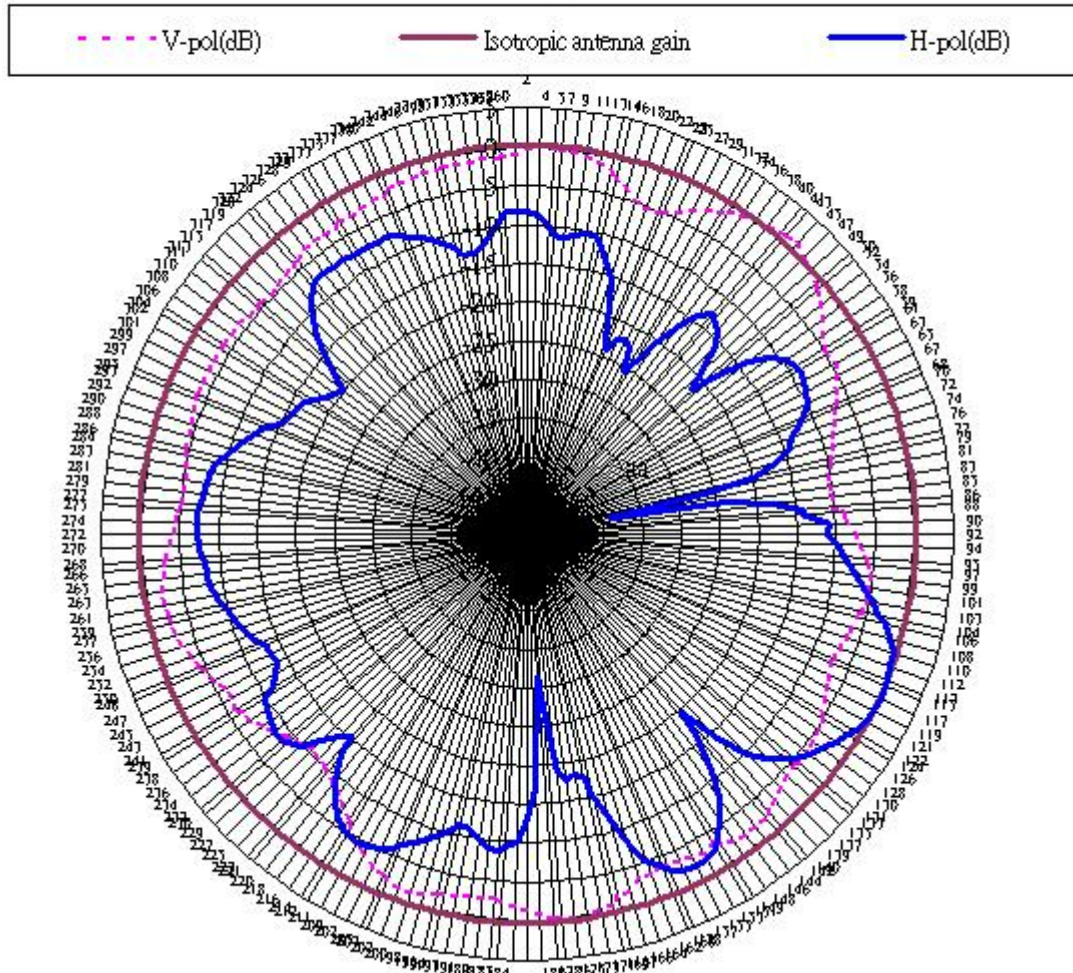
AUX antenna dimensioned drawing



Radiation characteristic of antennaeLoaded (In Host System)

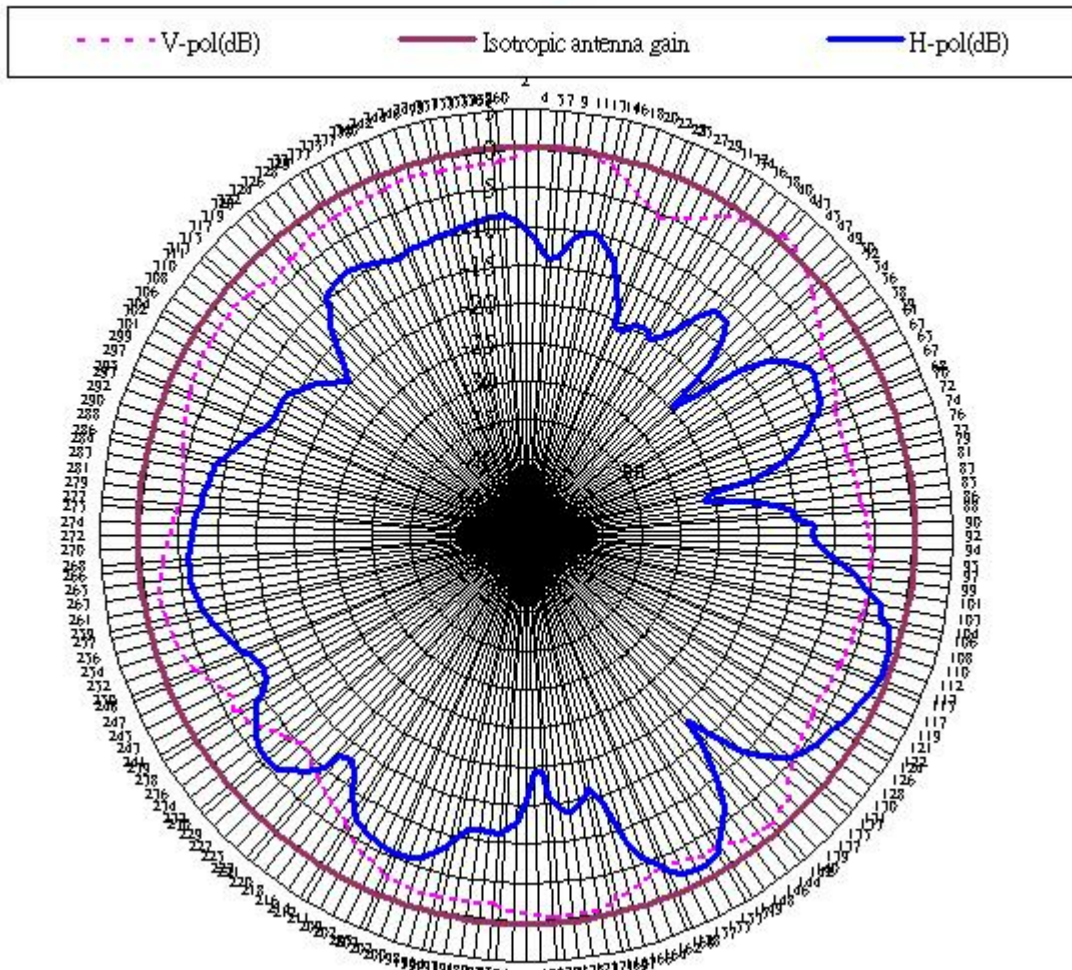
2400-2500MHz radiation characteristic

Main antenna -@2.4GHz



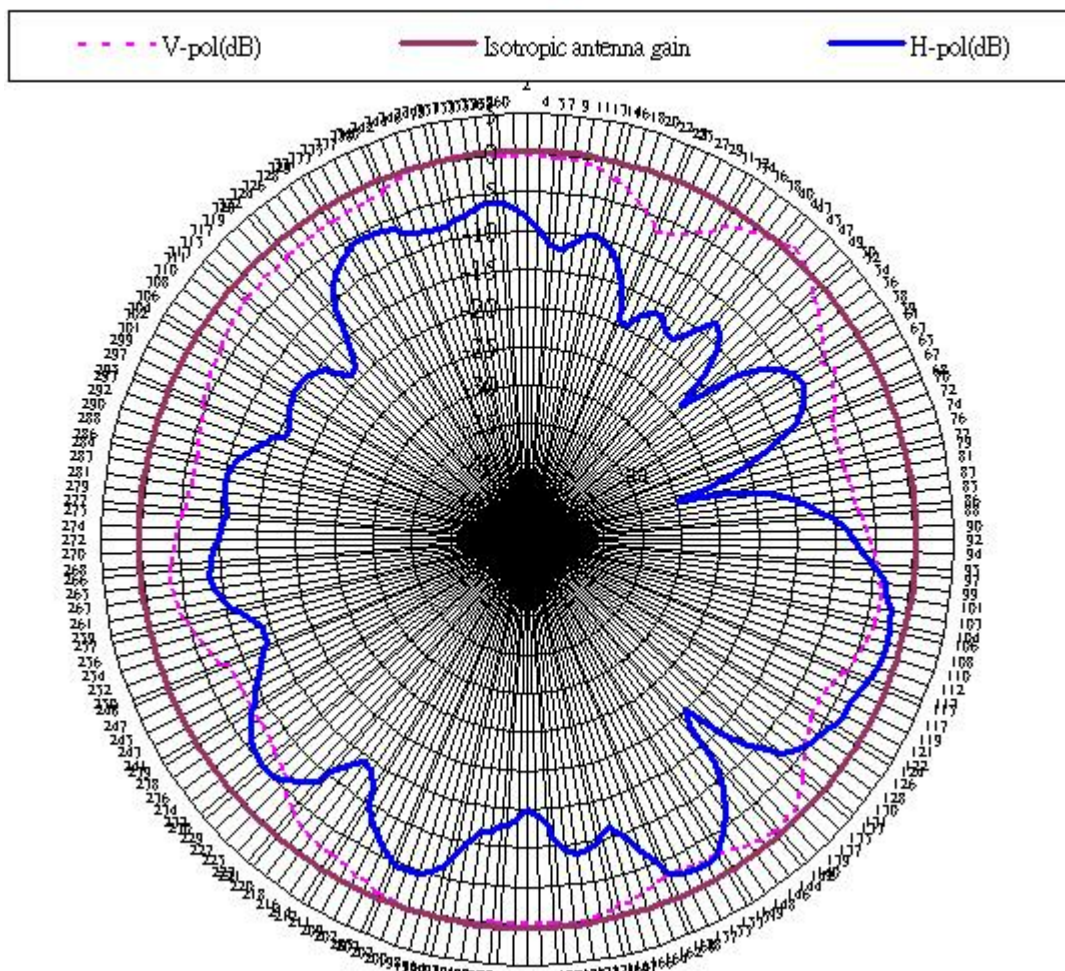
Center Frquency	2400MHz
Horizontal (dBi) Peak	-0.35
Vertical (dBi) Peak	-1.05
Horz + Vert (dBi) Peak	-0.34

Main antenna -@2.45GHz



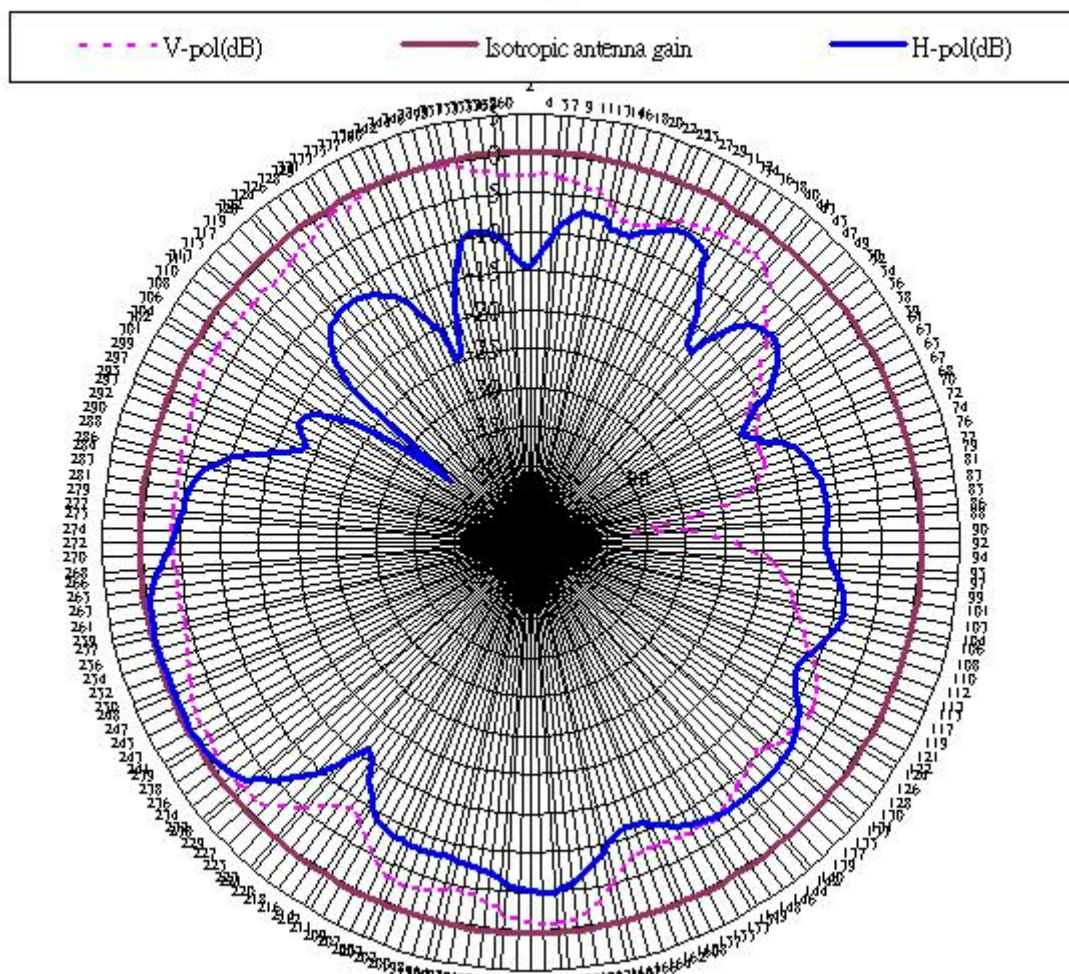
Center Frquency	2450MHz
Horizontal (dBi) Peak	-0.561
Vertical (dBi) Peak	-0.21
Horz + Vert (dBi) Peak	-0.31

Main antenna -@2.5GHz



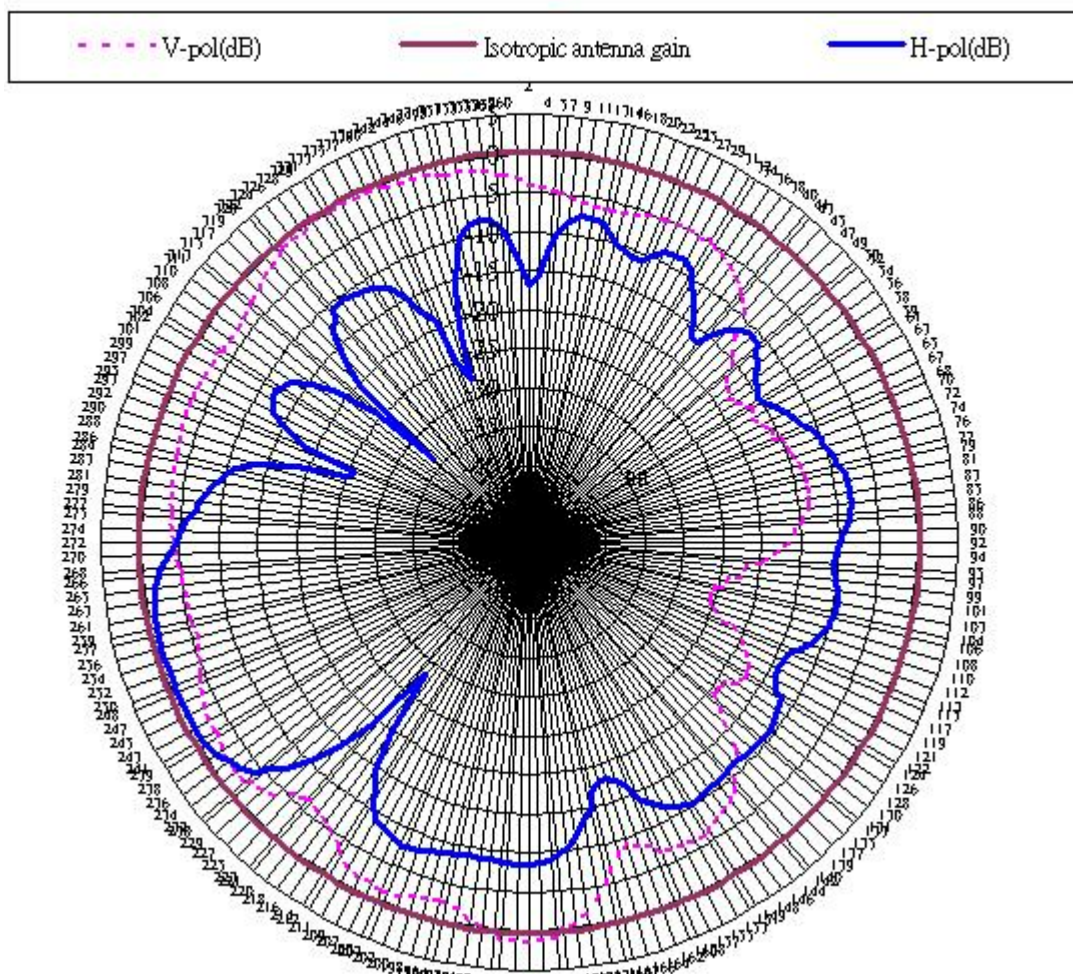
Center Frequency	2500MHz
Horizontal (dBi) Peak	0.86
Vertical (dBi) Peak	-1.67
Horz + Vert (dBi) Peak	-0.2

AUX antenna -@2.4GHz



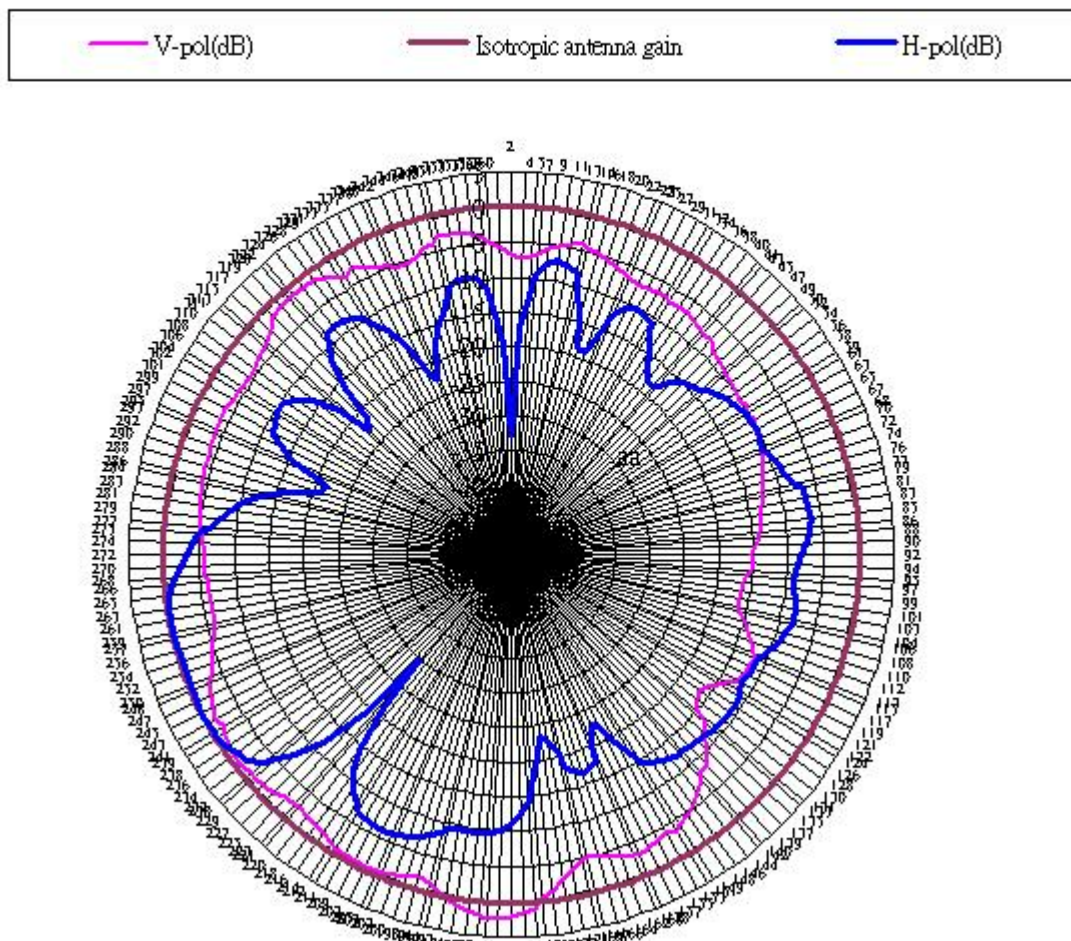
Center Frquency	2400MHz
Horizontal (dBi) Peak	-0.23
Vertical (dBi) Peak	0.12
Horz + Vert (dBi) Peak	2.01

AUX antenna -@2.45GHz



Center Frquency	2450MHz
Horizontal (dBi) Peak	-0.83
Vertical (dBi) Peak	1.31
Horz + Vert (dBi) Peak	1.52

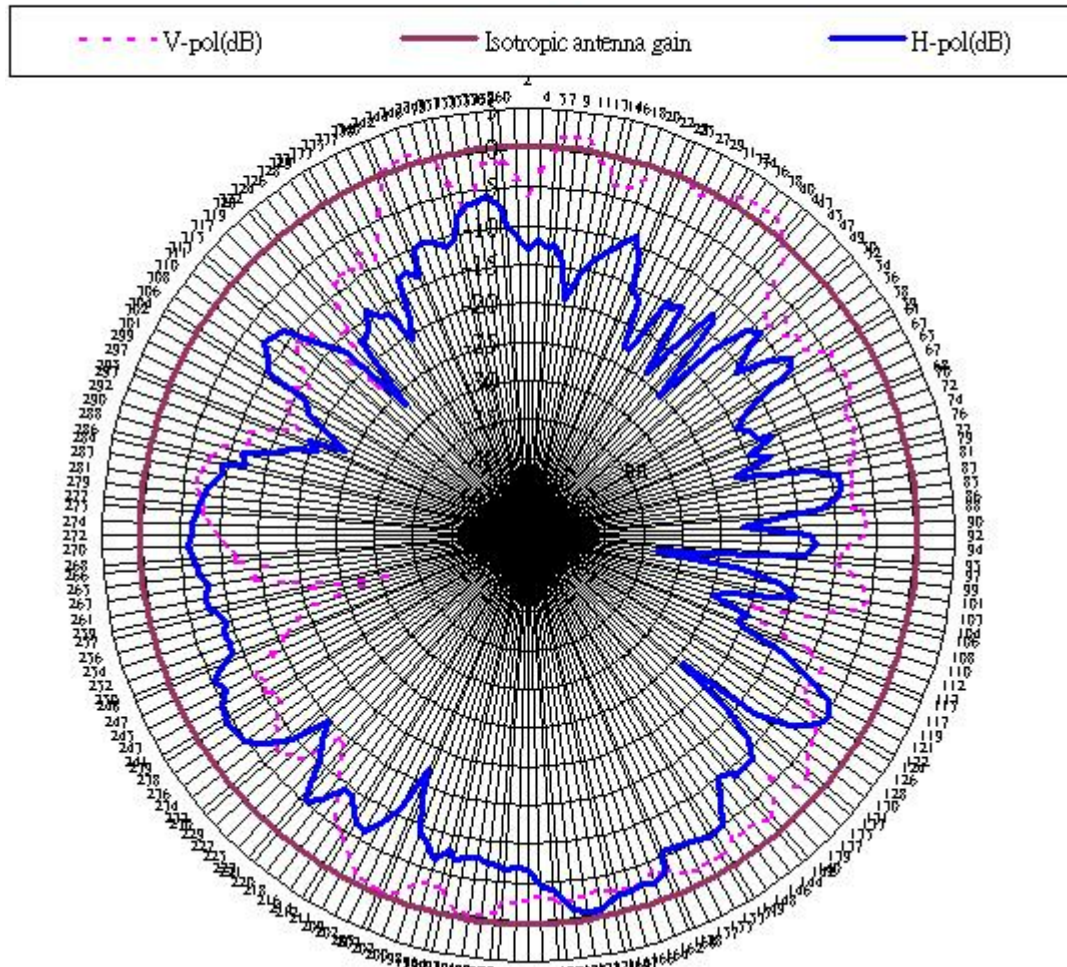
AUX antenna -@2.5GHz



Center Frquency	2500MHz
Horizontal (dBi) Peak	0.01
Vertical (dBi) Peak	2.43
Horz + Vert (dBi) Peak	2.48

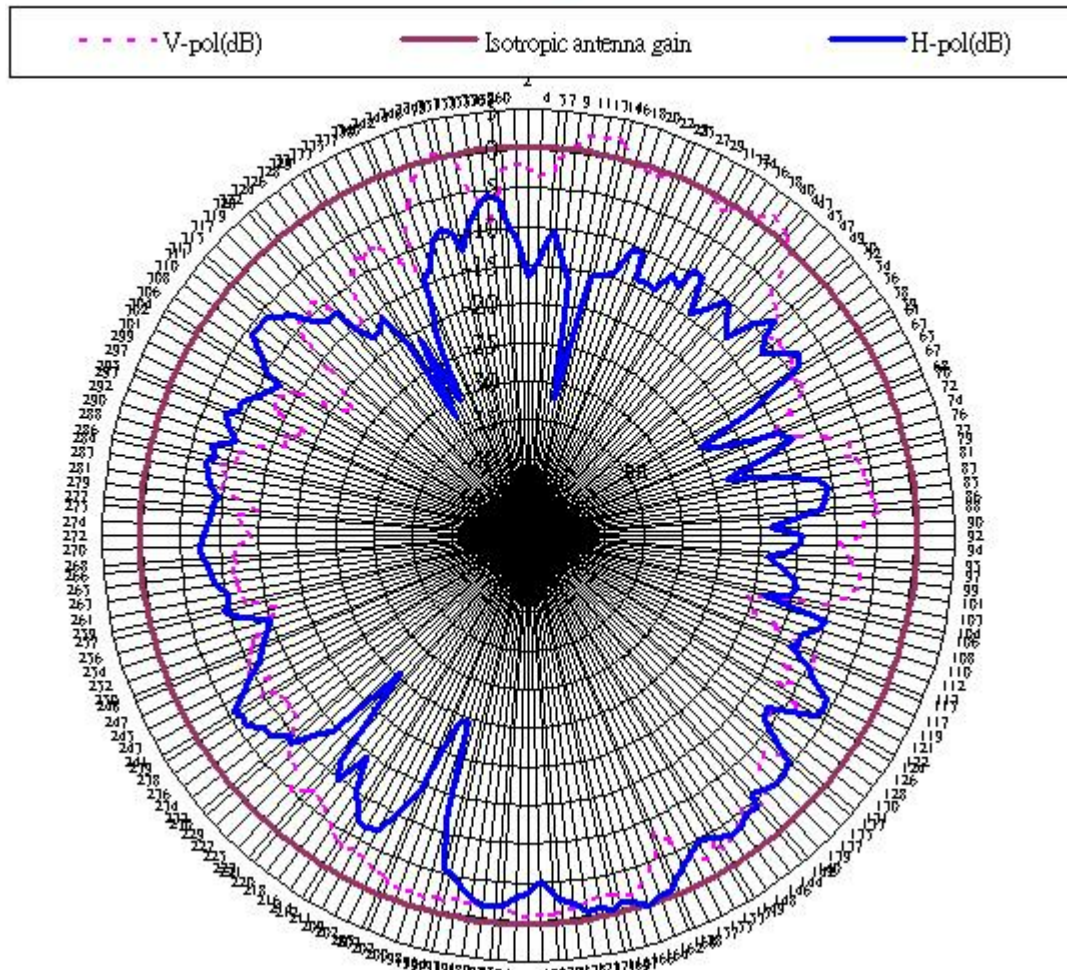
5150-5135 MHz radiation characteristic

Main antenna -@5.15GHz



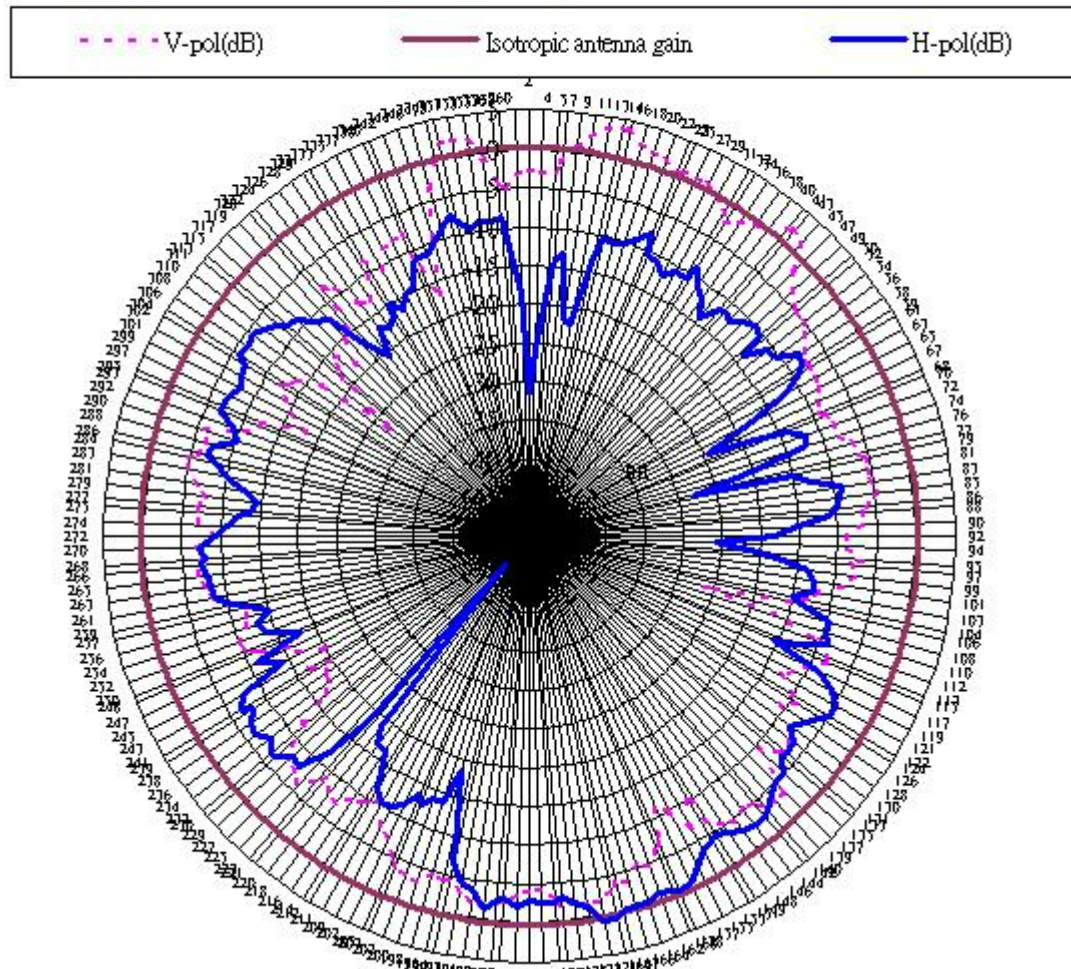
Center Frequency	5150 MHz
Horizontal (dBi) peak	-0.89
Vertical (dBi) peak	2
Horz+Vert (dBi) peak	1.3

Main antenna -@5.25GHz



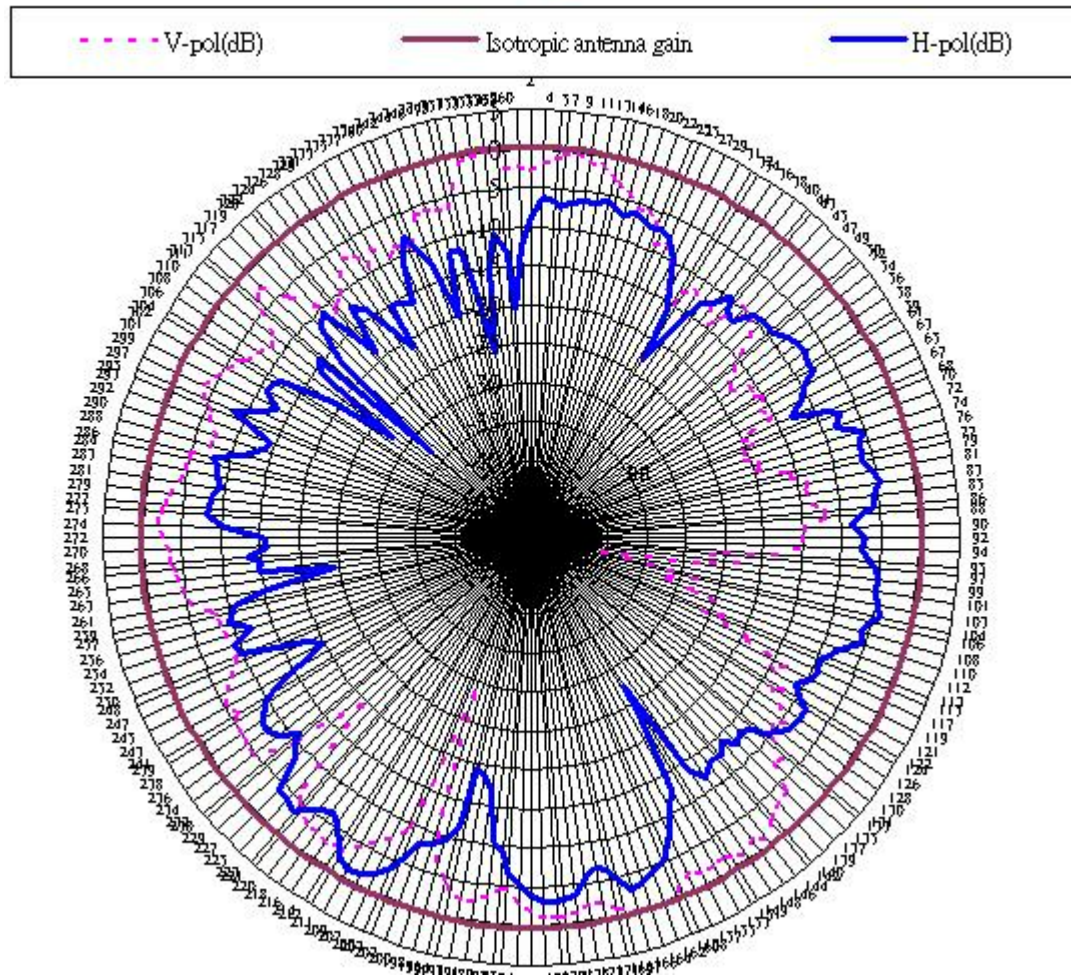
Center Frequency	5250 MHz
Horizontal (dBi) peak	0.19
Vertical (dBi) peak	2.43
Horz+Vert (dBi) peak	1.71

Main antenna - @5.35GHz



Center Frequency	5350 MHz
Horizontal (dBi) peak	0.67
Vertical (dBi) peak	3.89
Horz+Vert (dBi) peak	2.81

AUX antenna -@5.15GHz



Center Frequency	5150 MHz
Horizontal (dBi) peak	-1.11
Vertical (dBi) peak	0.375
Horz+Vert (dBi) peak	1.32