

Regulatory Antenna Information Example PIFA Antenna Spec.

(English Required)

Tatung Corporation

Antenna Information Example

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	ANTENNIQUE CORPORATION	PIFA	(P/N : UL1745-SB) 50ohm Coaxial. length: 27.2 cm diameter: 1.13 mm Connector: UL	2400-2500MHz 0.078 dBi (peak)
				5150-5350MHz 1.68 dBi (peak)
Auxiliary antenna	ANTENNIQUE CORPORATION	PIFA	(P/N : UL1745-SB) 50ohm Coaxial. length: 20 cm diameter: 1.13 mm Connector: UL	2400-2500MHz 1.069 dBi (peak)
				5150-5350MHz 1.643 dBi (peak)

Antenna overview: Peak Gain not including cable loss.

Antenna Designator	Manufacture	Antenna type	Peak Gain w/o Cable Loss (dBi)
Main antenna	ANTENNIQUE CORPORATION	PIFA	2400-2500MHz 1.003dBi (peak)
			5150-5350MHz 3.312dBi (peak)
Auxiliary antenna	ANTENNIQUE CORPORATION	PIFA	2400-2500MHz 1.881dBi (peak)
			5150-5350MHz 3.186dBi (peak)

Cable assembly overview: Cable loss (including connector).

Designator	Manufacture	Cable type and length	VSWR	Cable Loss (dBi)
For use with the Main antenna	S.A.S CABLE &INTERCONNECT	Example: (P/N : UL1745-SB) 50ohm Coaxial. length: 27.2 cm diameter: 1.13 mm Connector: UL	2400-2500MHz 1.475 max	2400-2500MHz -0.925dBi (peak)
			5150-5350MHz 1.517 max	5150-5350MHz -1.632dBi (peak)
For use with the Auxiliary antenna	S.A.S CABLE &INTERCONNECT	Example: (P/N : UL1745-SB) 50ohm Coaxial. length: 20 cm diameter: 1.13 mm Connector: UL	2400-2500MHz 1.3044 max	2400-2500MHz -0.812dBi (peak)
			5150-5350MHz 1.6744 max	5150-5350MHz -1.542dBi (peak)

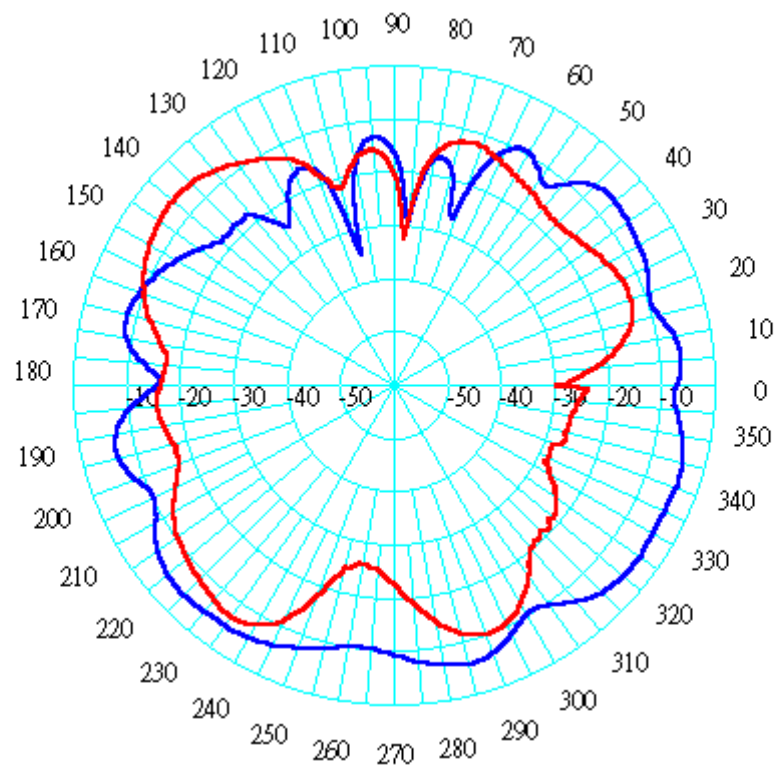
Radiation characteristic of antennae Loaded (In Host System)

2400-2500MHz radiation characteristic

Main antenna: 2400 MHz

BLUE__E-PLANE

RED__H-PLANE

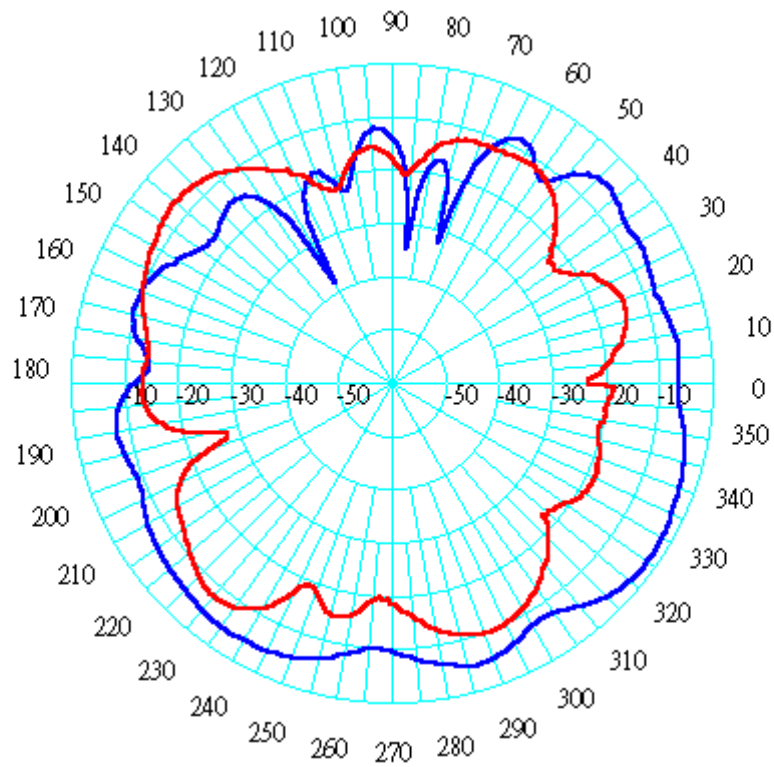


Center Frequency	2400 MHz
Horizontal (dBi) peak	-3.844
Vertical (dBi) peak	-6.015

Main antenna: 2450 MHz

BLUE__E-PLANE

RED__H-PLANE

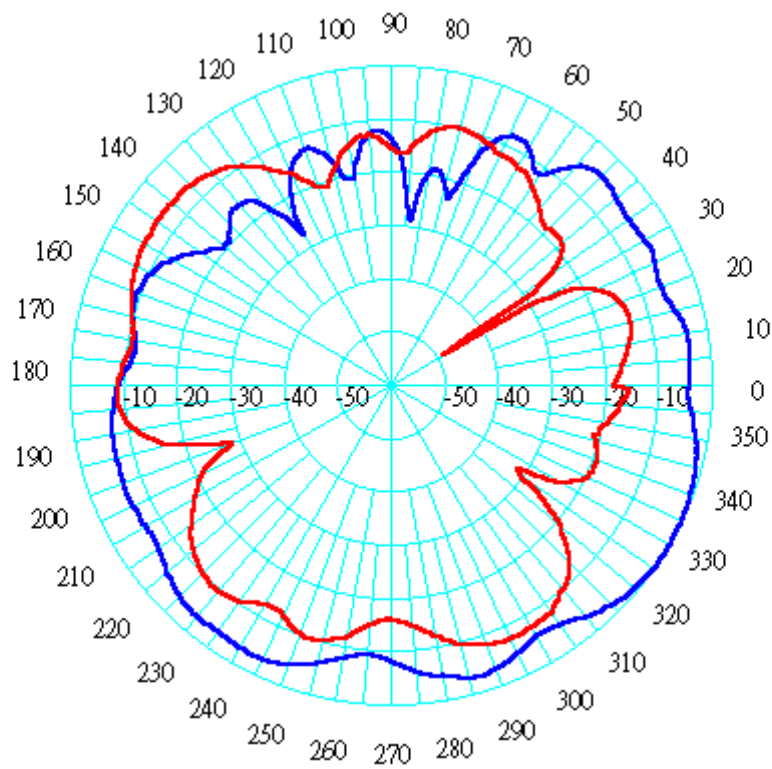


Center Frequency	245 MHz
Horizontal (dBi) peak	-1.628
Vertical (dBi) peak	-7.075

Main antenna: 2500 MHz

BLUE__E-PLANE

RED__H-PLANE

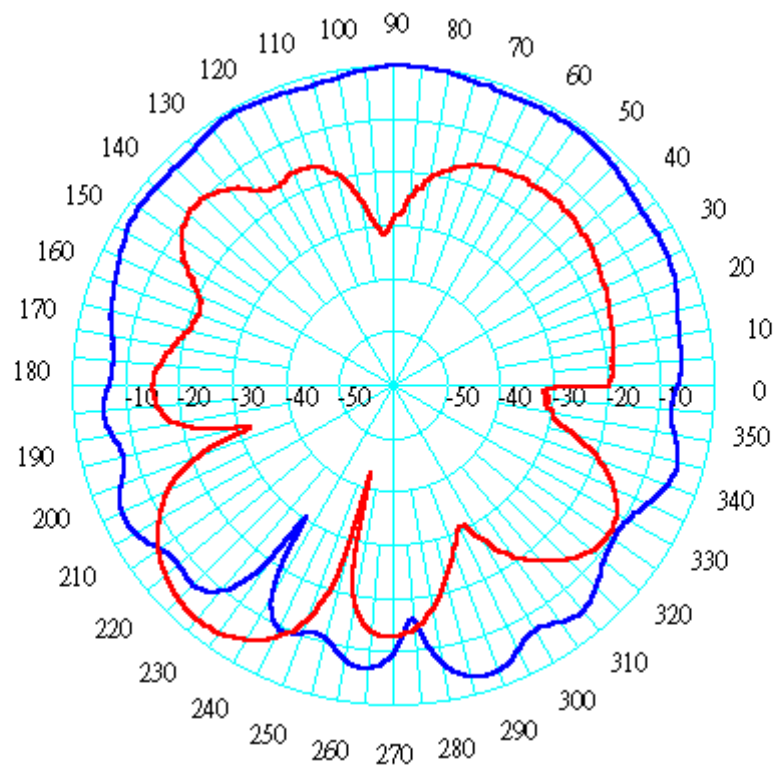


Center Frequency	2500MHz
Horizontal (dBi) peak	0.078
Vertical (dBi) peak	-6.503

Auxiliary antenna: 2400 MHz

BLUE__E-PLANE

RED__H-PLANE

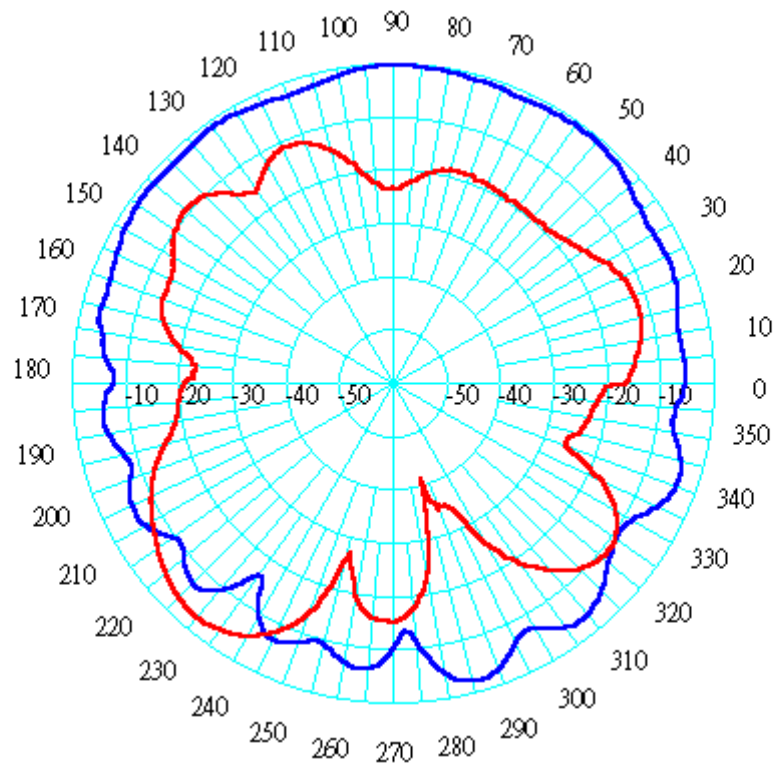


Center Frequency	2400 MHz
Horizontal (dBi) peak	-0.001
Vertical (dBi) peak	-2.943

Auxiliary antenna: 2450 MHz

BLUE__E-PLANE

RED__H-PLANE

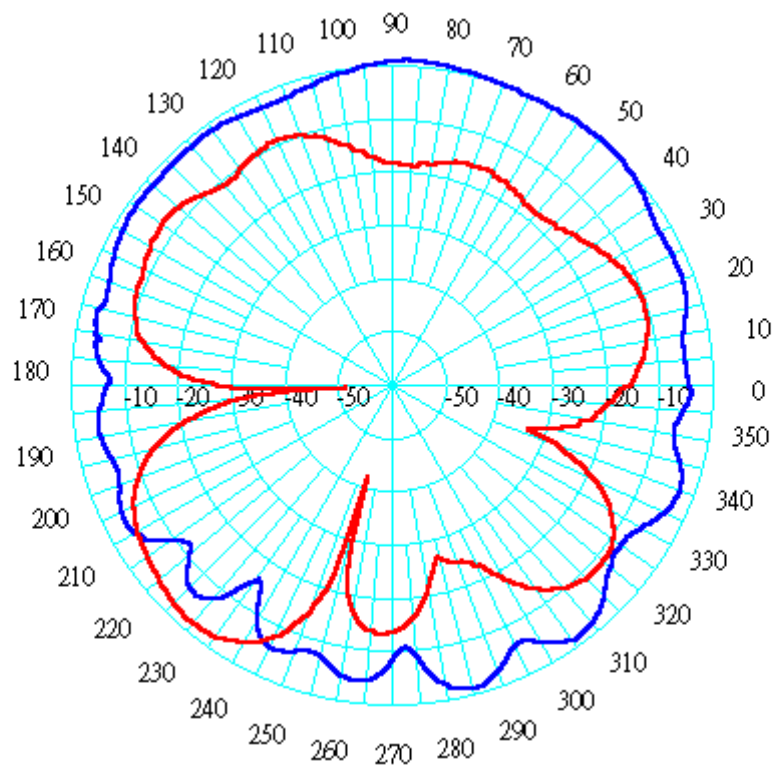


Center Frequency	2450 MHz
Horizontal (dBi) peak	-0.303
Vertical (dBi) peak	-2.926

Auxiliary antenna: 2500 MHz

BLUE__E-PLANE

RED__H-PLANE



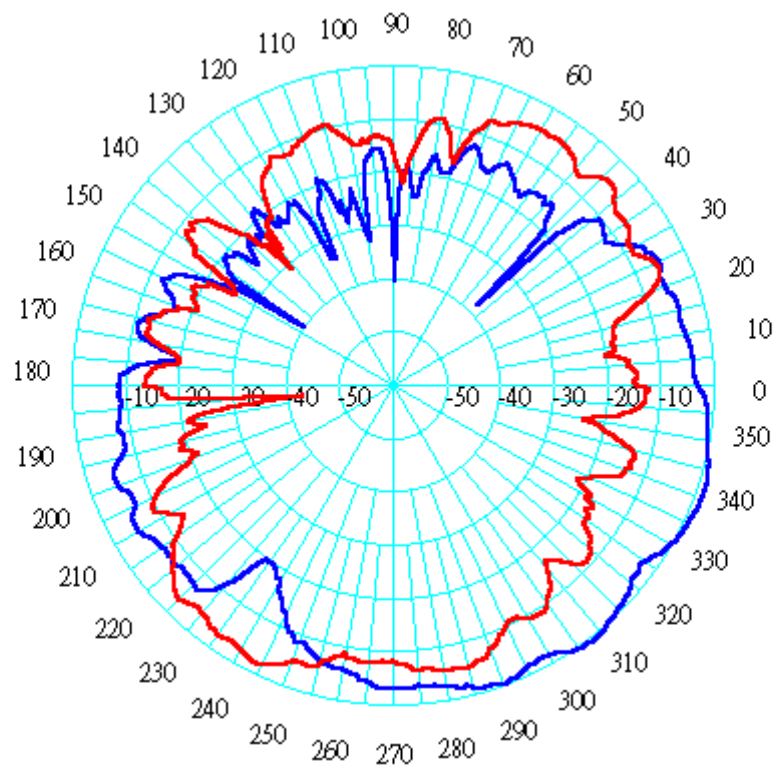
Center Frequency	2500 MHz
Horizontal (dBi) peak	-1.069
Vertical (dBi) peak	-1.943

5150-5135 MHz radiation characteristic

Main antenna: 5150 MHz

BLUE__E-PLANE

RED__H-PLANE

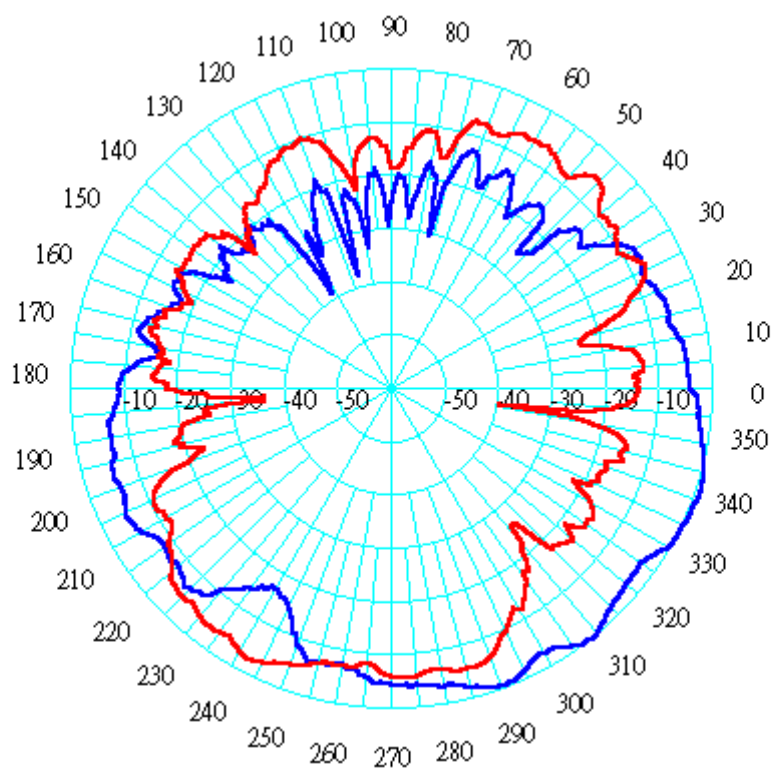


Center Frequency	5150
Horizontal (dBi) peak	1.567
Vertical (dBi) peak	-5.187

Main antenna: 5250 MHz

BLUE__E-PLANE

RED__H-PLANE

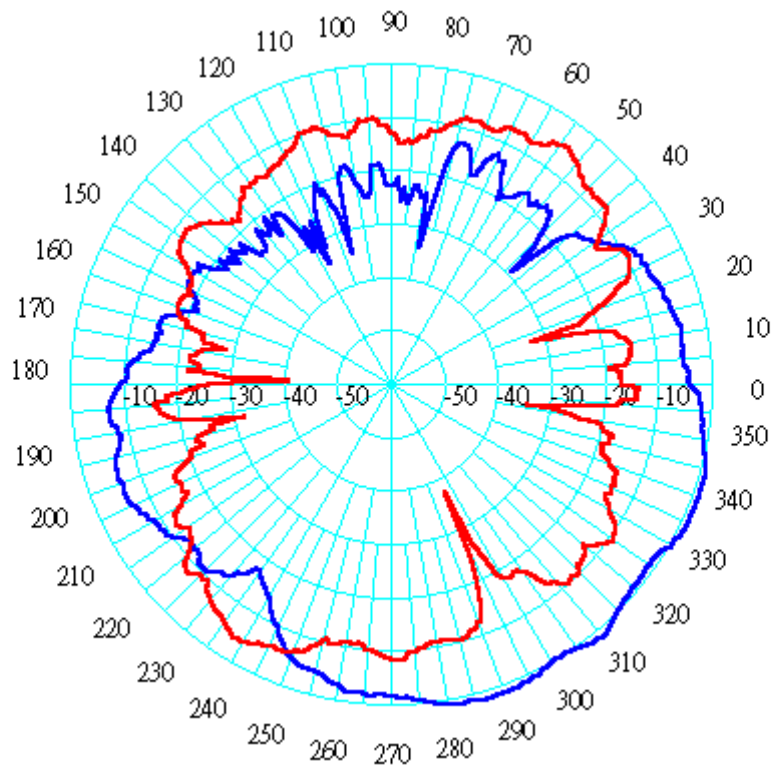


Center Frequency	5250
Horizontal (dBi) peak	0.957
Vertical (dBi) peak	-2.542

Main antenna: 5350 MHz

BLUE__E-PLANE

RED__H-PLANE

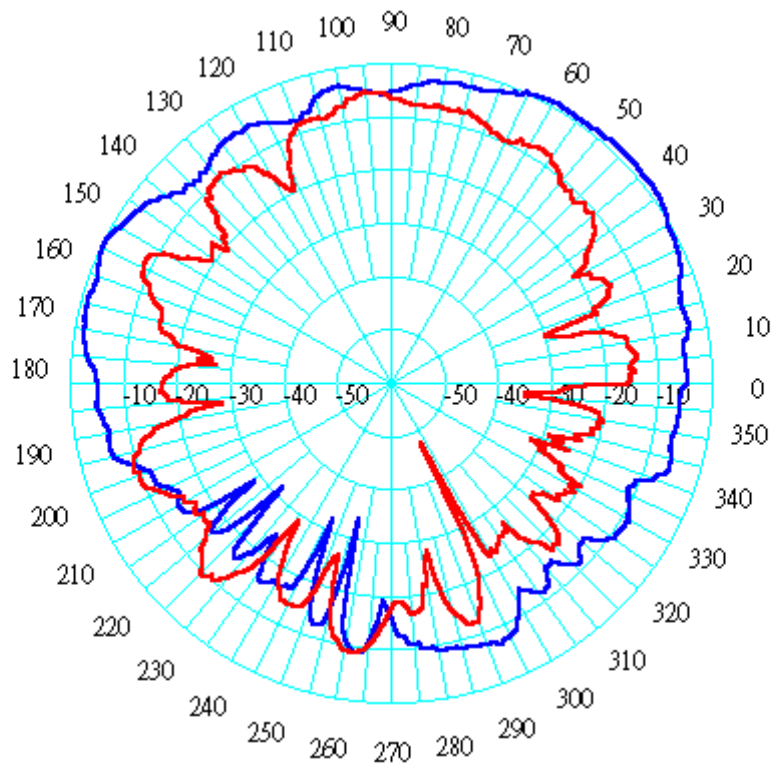


Center Frequency	5350
Horizontal (dBi) peak	1.68
Vertical (dBi) peak	-4.245

Auxiliary antenna: 5150 MHz

BLUE__E-PLANE

RED__H-PLANE

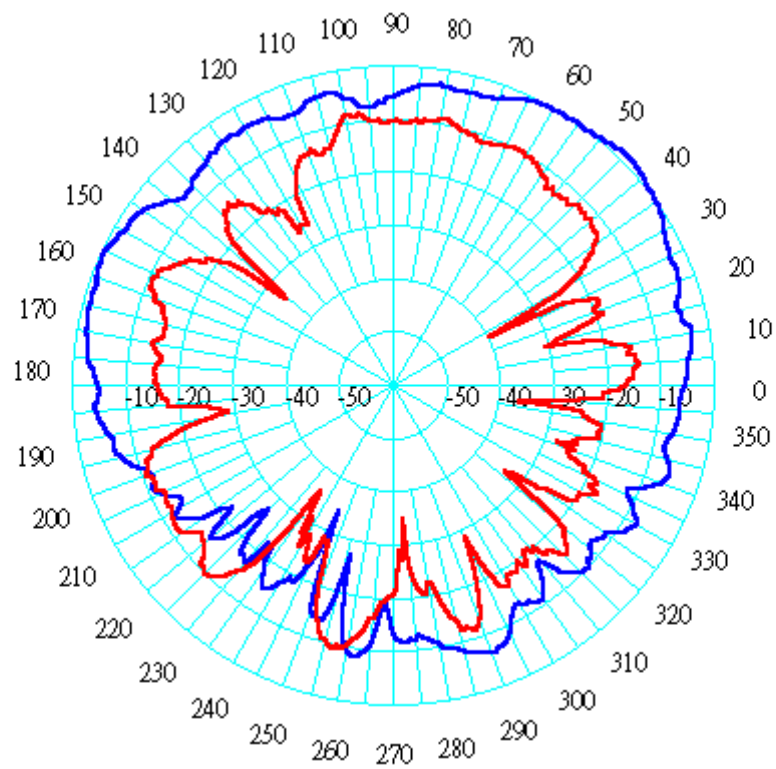


Center Frequency	5150
Horizontal (dBi) peak	1.643
Vertical (dBi) peak	-5.187

Auxiliary antenna: 5250 MHz

BLUE__E-PLANE

RED__H-PLANE

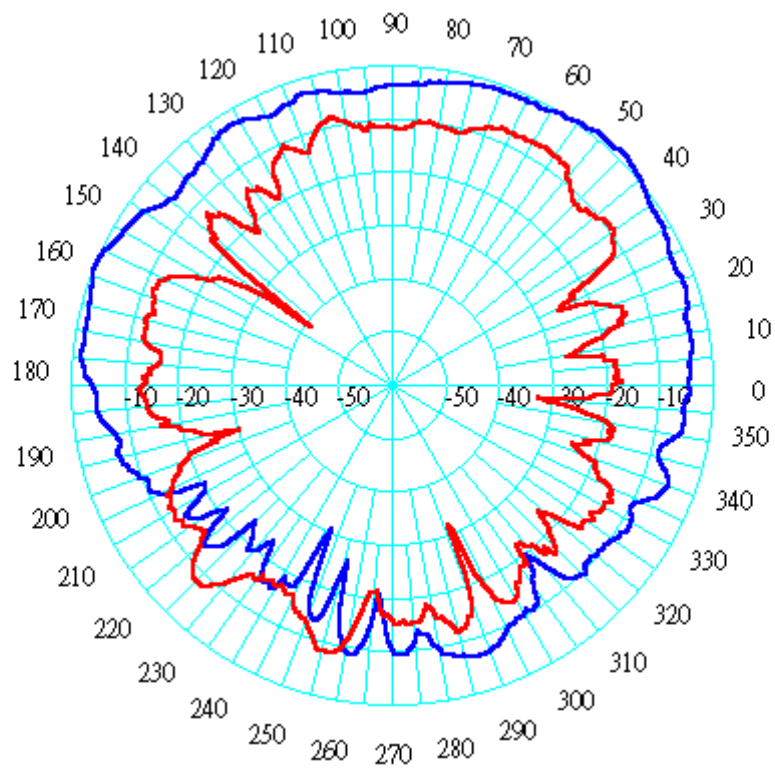


Center Frequency	5250
Horizontal (dBi) peak	1.585
Vertical (dBi) peak	-8.636

Auxiliary antenna: 5350 MHz

BLUE__E-PLANE

RED__H-PLANE



Center Frequency	5350
Horizontal (dBi) peak	1.492
Vertical (dBi) peak	-6.878

Host PC Information

Host model: TTB12-D

Main Antenna



Auxiliary antenna



Main antenna

Auxiliary antenna

