

Regulatory Antenna Information Example

(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: 29.5 cm diameter: 1.13 mm Connector: UL	2400-2500MHz -2.296 dBi (peak)
				5150-5350MHz -2.964 dBi (peak)
				5470-5725MHz -5.448 dBi (peak)
				5725-5850MHz -5.342dBi (peak)
Auxiliary antenna	ANTENNIQUE CORPORATION	PIFA	(P/N : UL1745-SB) 50ohm Coaxial. length: 25 cm diameter: 1.13 mm Connector: UL	2400-2500MHz -2.964dBi (peak)
				5150-5350MHz 2.058 dBi (peak)
				5470-5725MHz 2.574 dBi (peak)
				5725-5850MHz -0.669 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 -2.075dBi (peak)
			5150-5350MHz -2.079dBi (peak)
			5470-5725MHz -4.763dBi (peak)
			5725-5850MHz -4.457dBi (peak)
Auxiliary antenna	ANTENNIQUE CORPORATION	PIFA	2400-2500MHz -2.214dBi (peak)
			5150-5350MHz 2.808dBi (peak)
			5470-5725MHz 3.324dBi (peak)
			5725-5850MHz 0.199dBi (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:29.5 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)
			5470-5725MHz 2.412 max	5470-5725MHz -1.655dBi (peak)
			5725-5850MHz 2.5219 max	5725-5850MHz -1.685dBi (peak)
For use with the Auxiliary antenna	S.A.S CABLE &INTERCONNECT	Example: (P/N : UL1745-SB) 50ohm Coaxial. length: 25 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)
			5470-5725MHz 2.234 max	5470-5725MHz -1.491dBi (peak)
			5725-5850MHz 2.5698 max	5725-5850MHz -1.583dBi (peak)



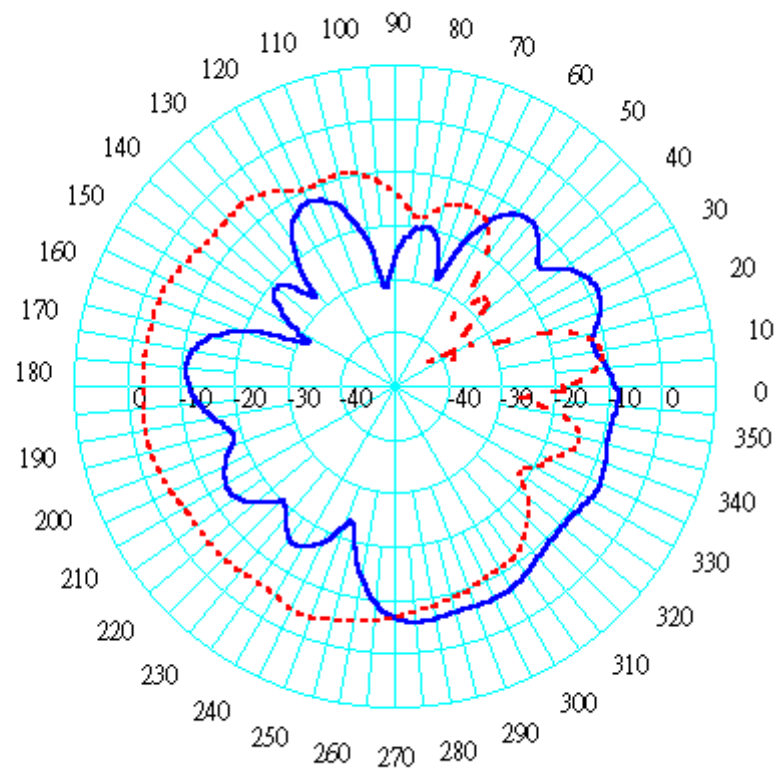
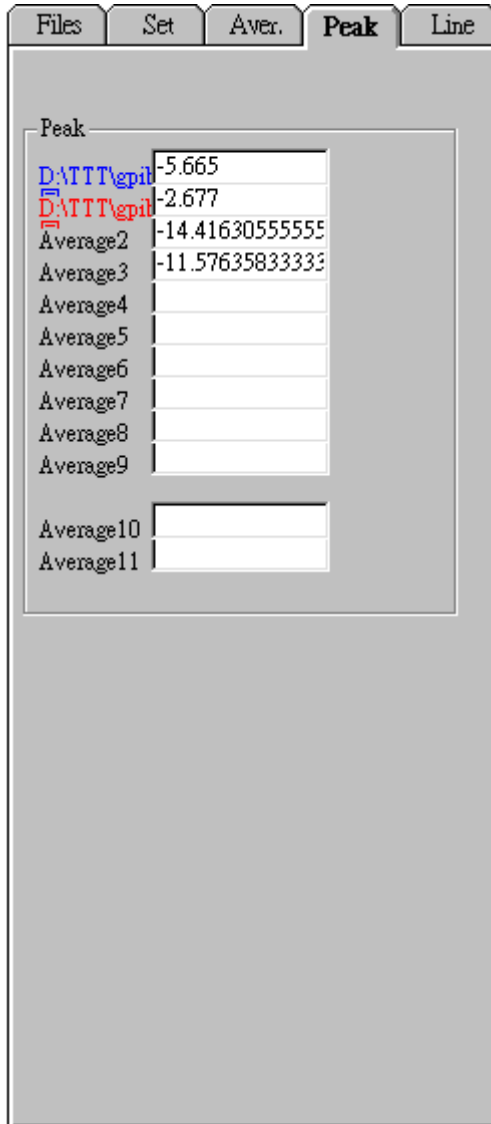
Radiation characteristic of antennae Loaded (In Host System)

2400-2500MHz radiation characteristic

Main antenna: 2400 MHz

BLUE__H-PLANE

RED__E-PLANE

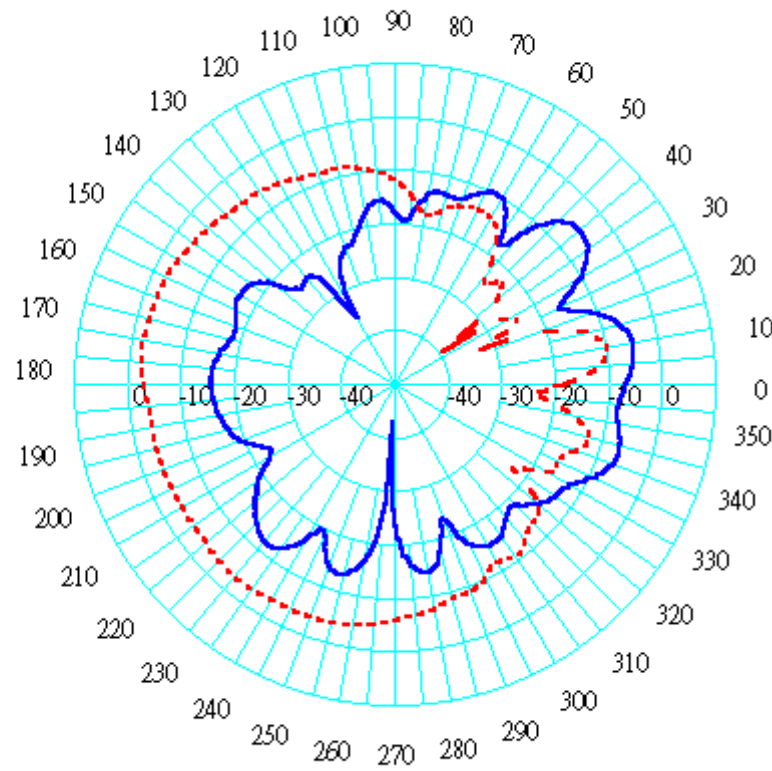
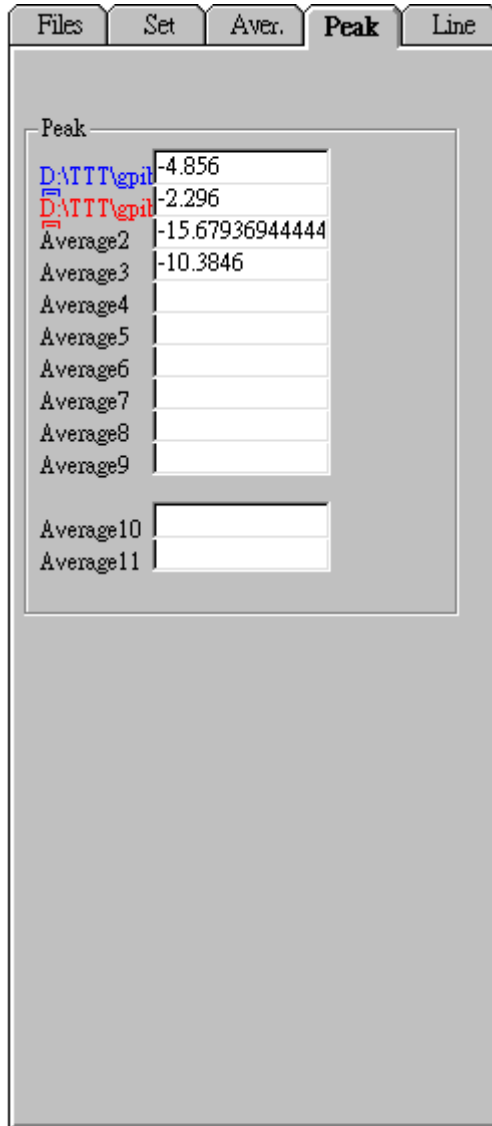


Center Frequency	2400 MHz
Horizontal (dBi) peak	-5.665
Vertical (dBi) peak	-2.677

Main antenna: 2450 MHz

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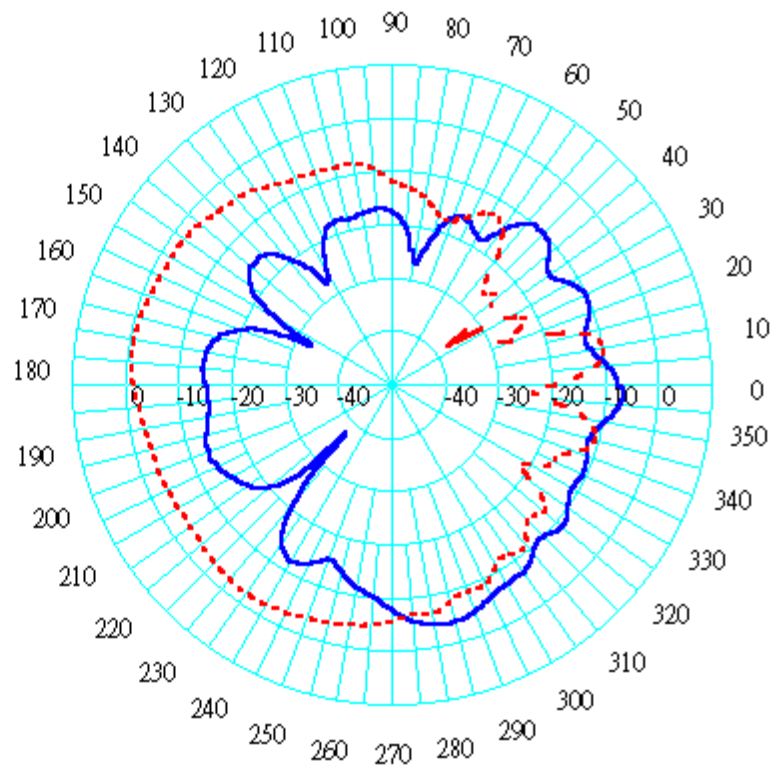
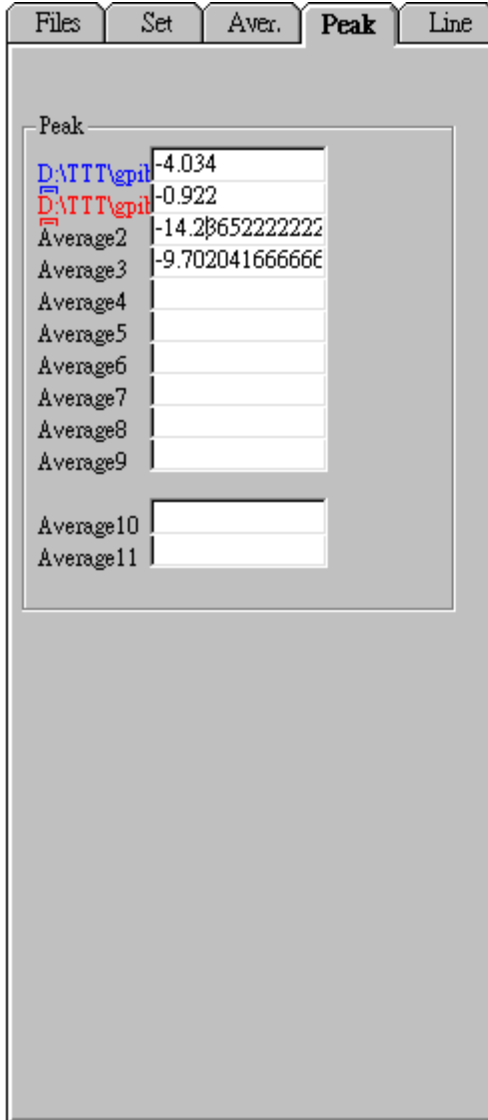


Center Frequency	245 MHz
Horizontal (dBi) peak	-4.856
Vertical (dBi) peak	-2.296

Main antenna: 2500 MHz

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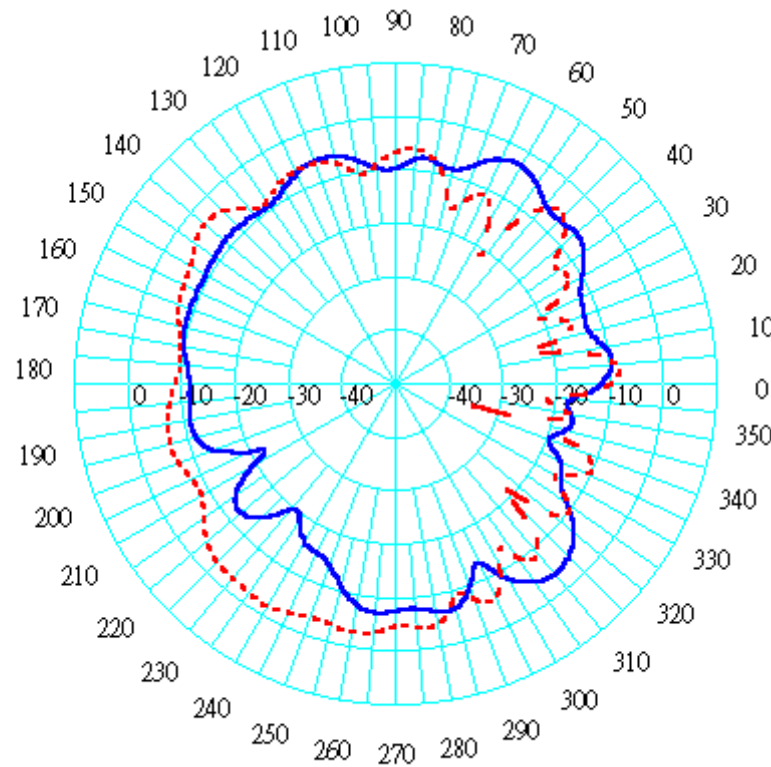
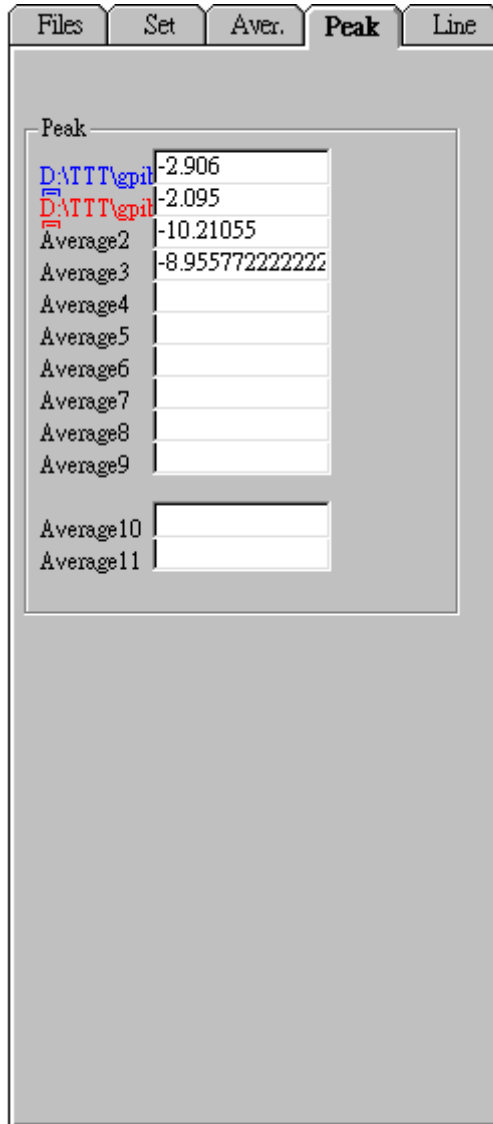


Center Frequency	2500MHz
Horizontal (dBi) peak	-4.034
Vertical (dBi) peak	-0.922

Auxiliary antenna: 2400 MHz

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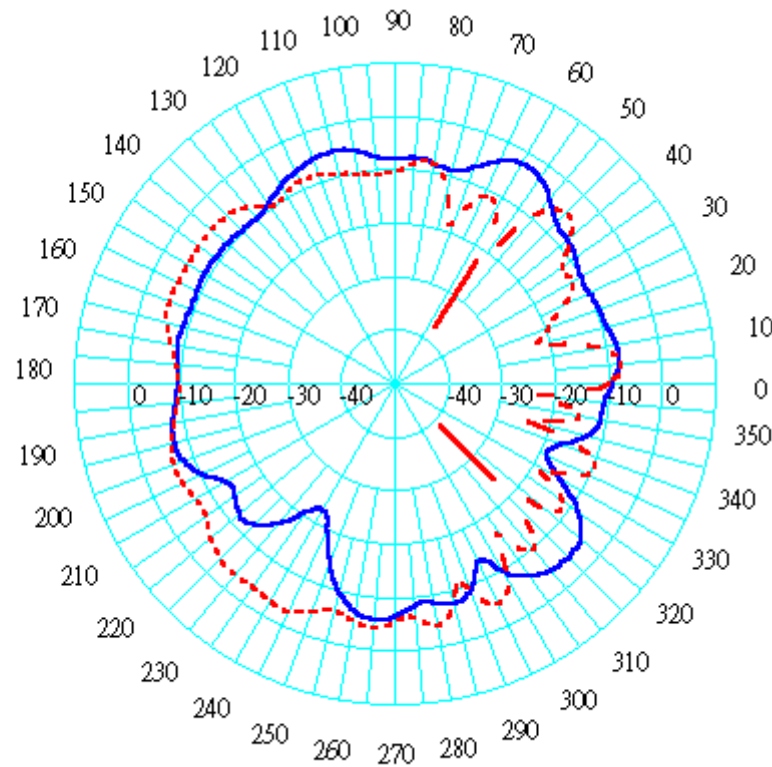
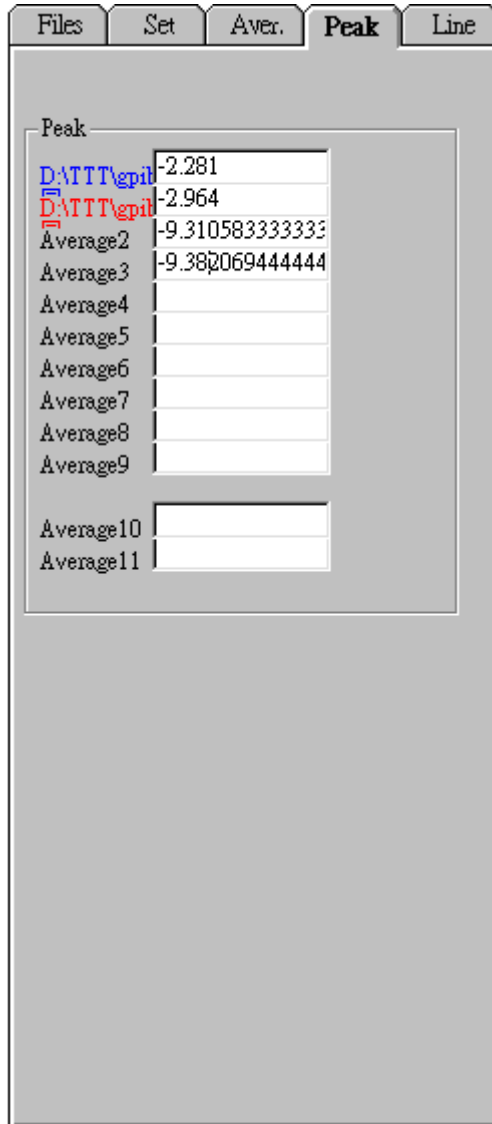


Center Frequency	2400 MHz
Horizontal (dBi) peak	-2.906
Vertical (dBi) peak	-2.095

Auxiliary antenna: 2450 MHz

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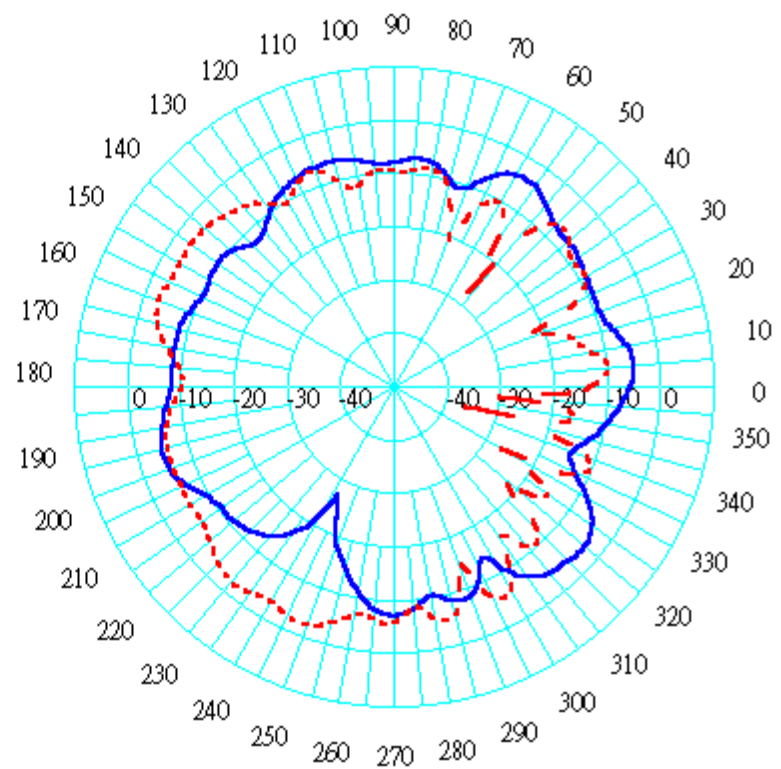
Center Frequency	245 MHz
Horizontal (dBi) peak	-2.281
Vertical (dBi) peak	-2.964

Auxiliary antenna: 2500 MHz

BLUE__H-PLANE

RED__E-PLANE

Files	Set	Aver.	Peak	Line
Peak				
D:\TTT\gpil			-3.324	
D:\TTT\gpil			-2.382	
Average2			-9.0077999999999	
Average3			-9.6750277777777	
Average4				
Average5				
Average6				
Average7				
Average8				
Average9				
Average10				
Average11				

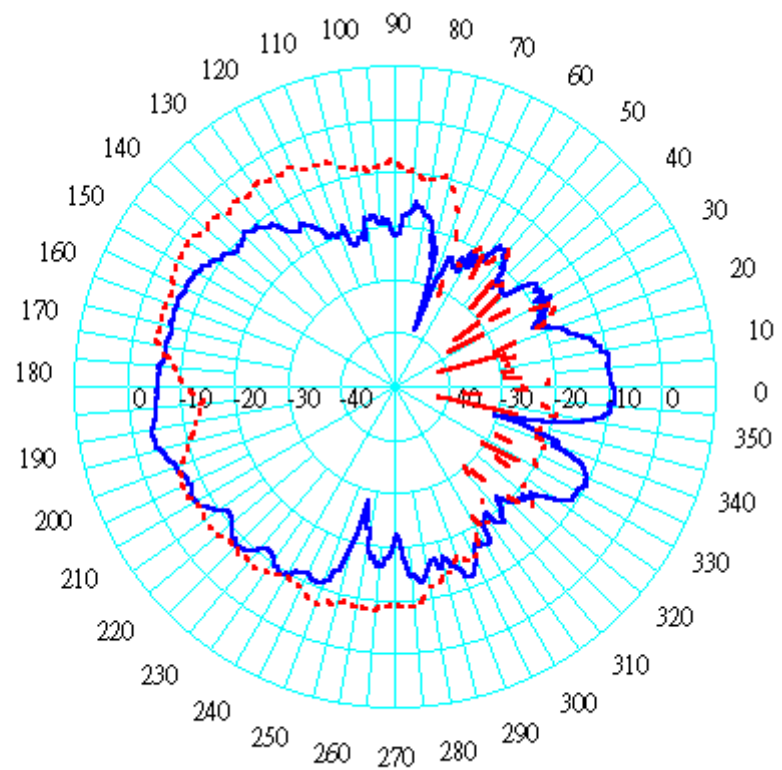
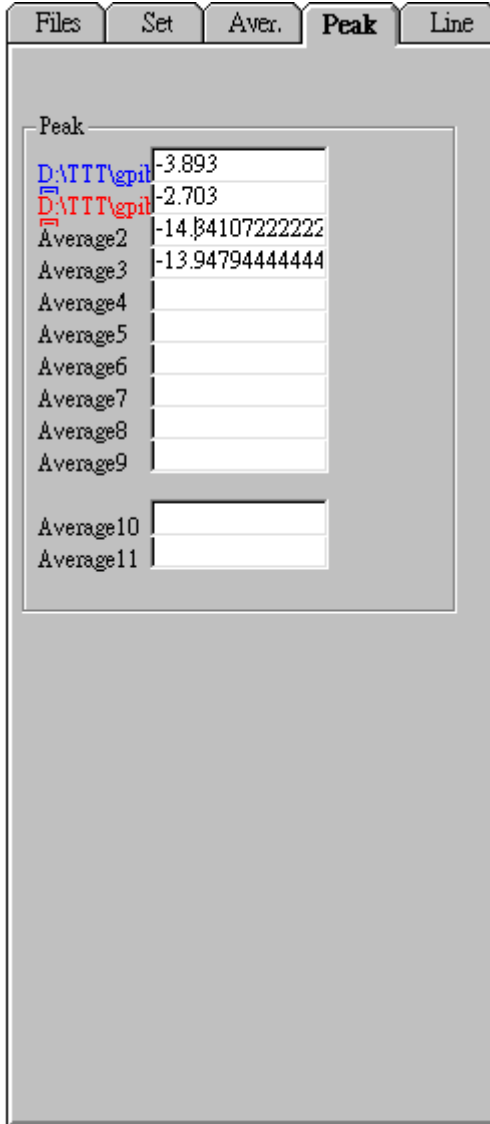


Center Frequency	250 MHz
Horizontal (dBi) peak	-3.324
Vertical (dBi) peak	-2.382

5150-5135 MHz radiation characteristic
Main antenna: 5150 MHz

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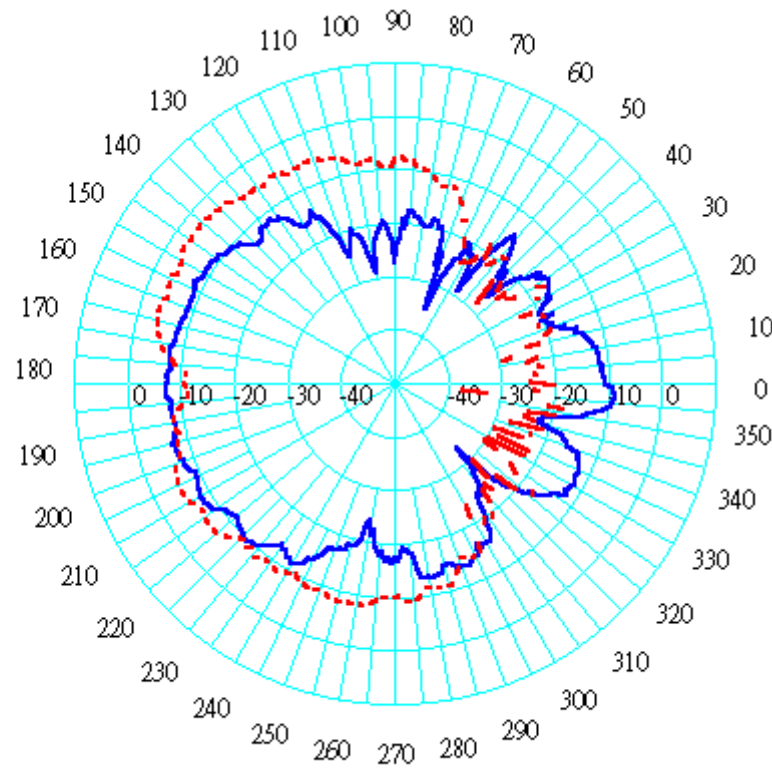
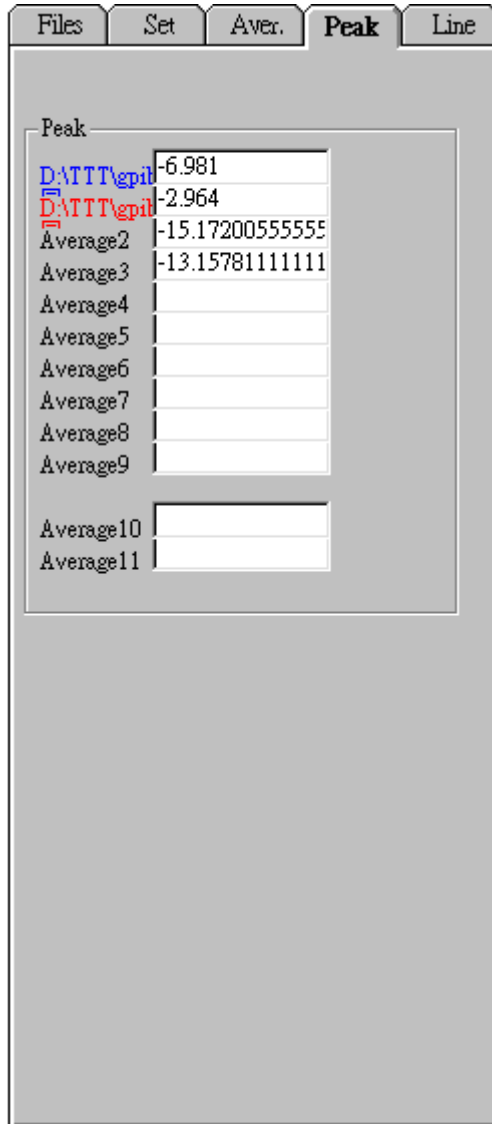


Center Frequency	5150
Horizontal (dBi) peak	-3.893
Vertical (dBi) peak	-2.703

Main antenna: 5250 MHz

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RED_E-PLANE

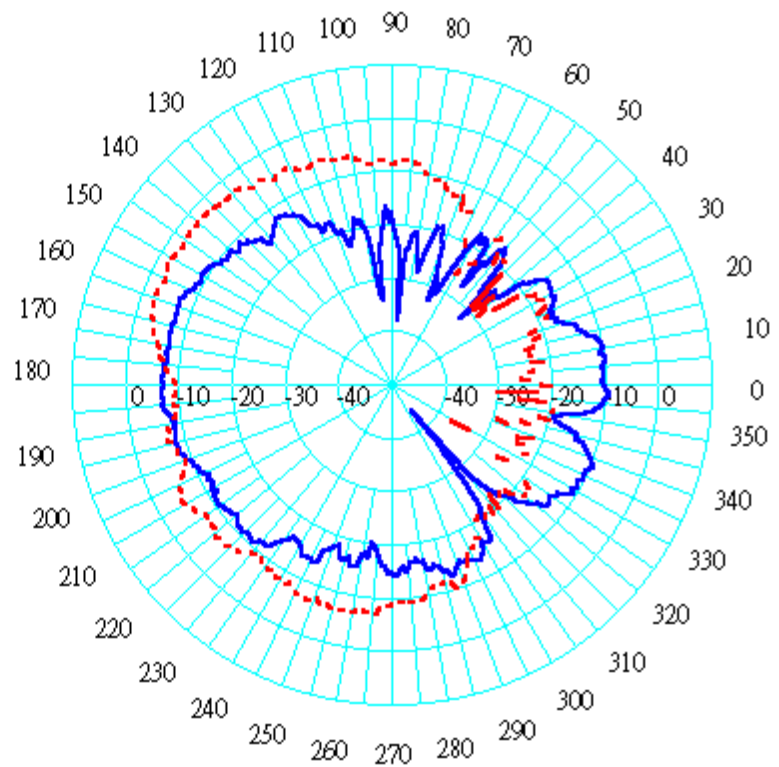
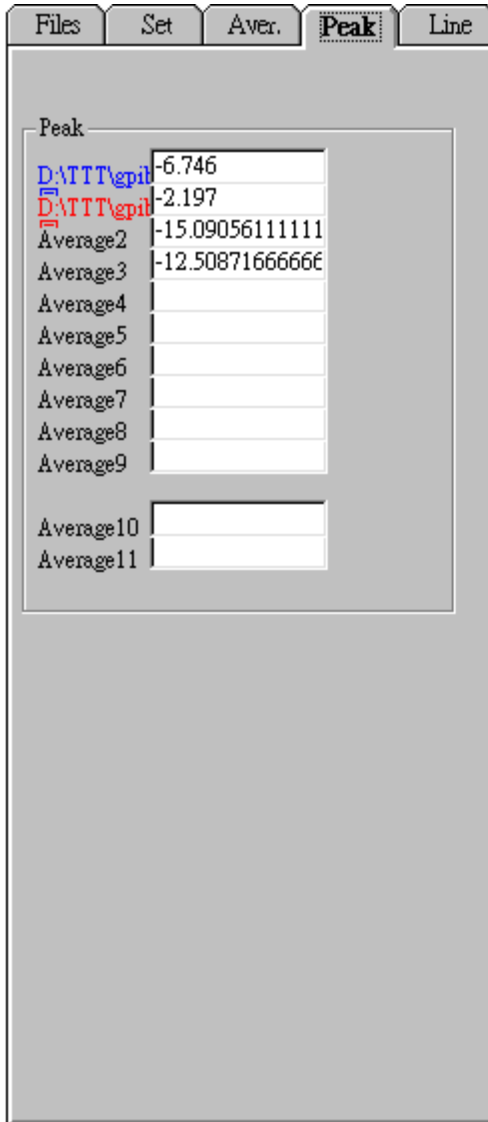


Center Frequency	5250
Horizontal (dBi) peak	-6.981
Vertical (dBi) peak	-2.964

Main antenna: 5350 MHz

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RED__E-PLANE

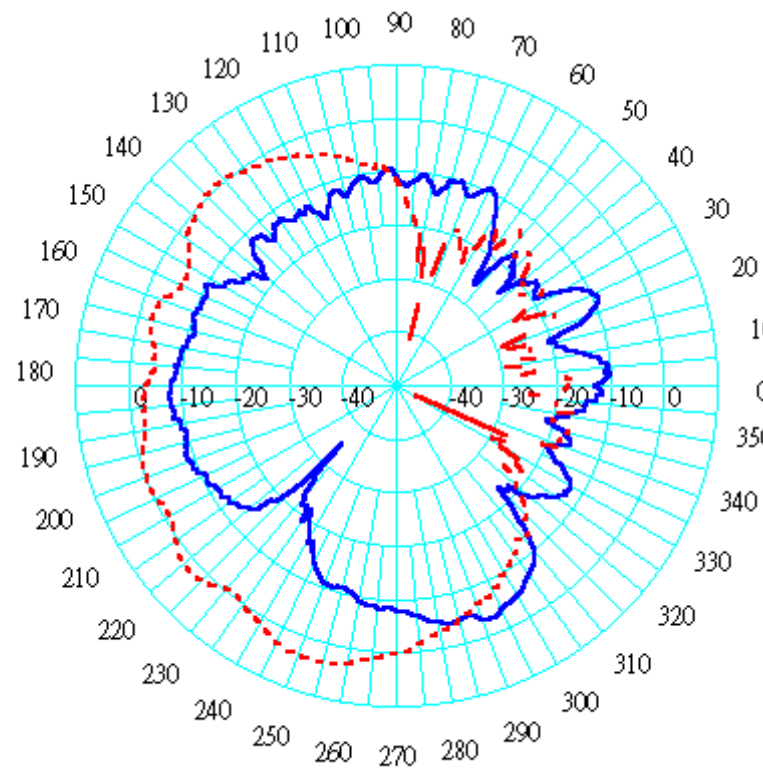
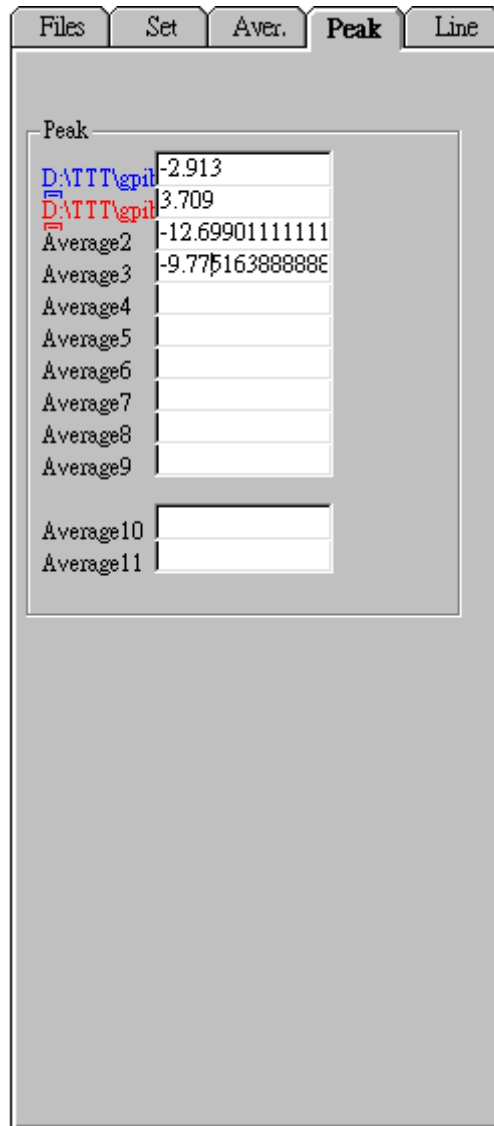


Center Frequency	5350
Horizontal (dBi) peak	-6.746
Vertical (dBi) peak	-2.197

Auxiliary antenna: 5150 MHz

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RED__E-PLANE

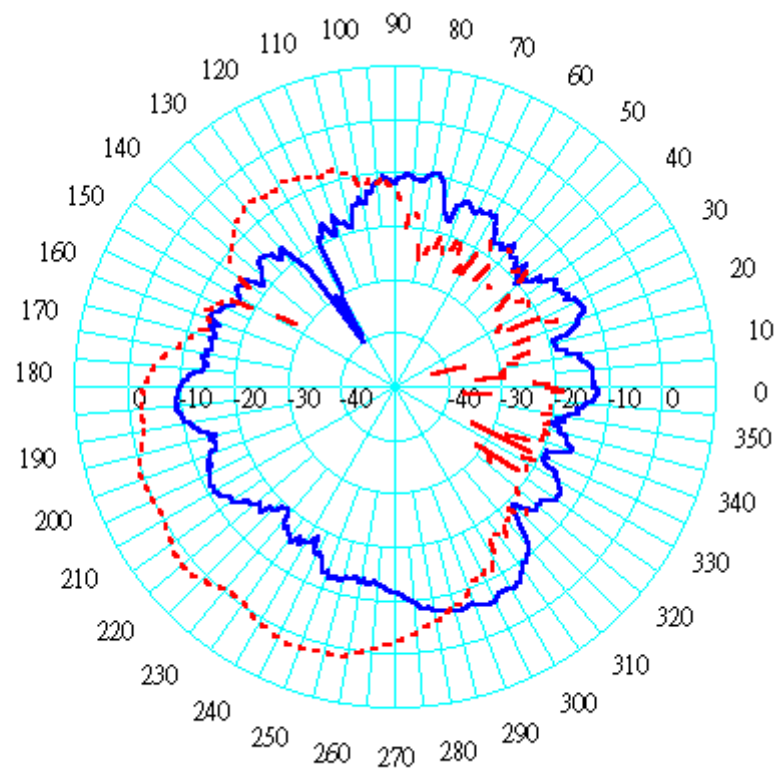
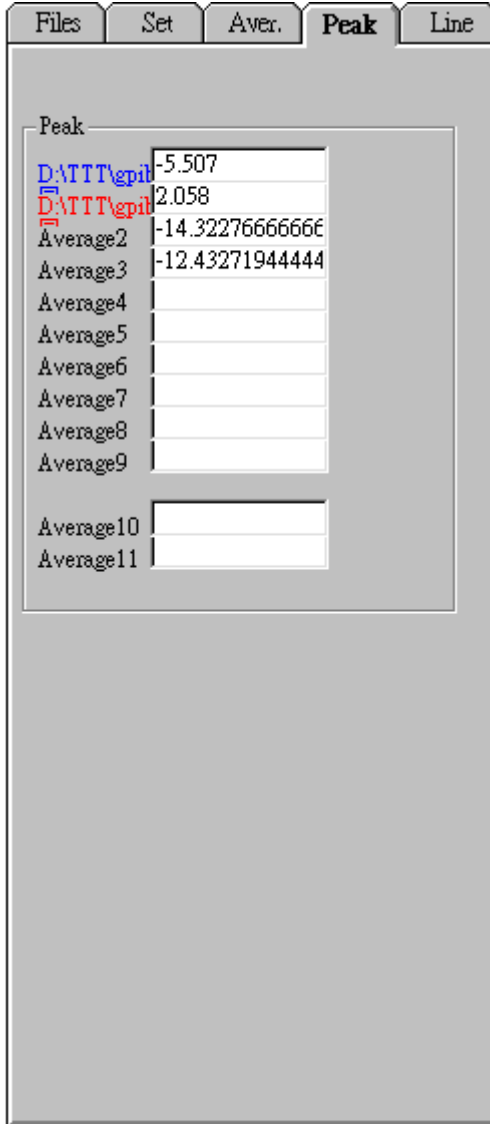


Center Frequency	5150
Horizontal (dBi) peak	-2.913
Vertical (dBi) peak	3.709

Auxiliary antenna: 5250 MHz

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RED__E-PLANE

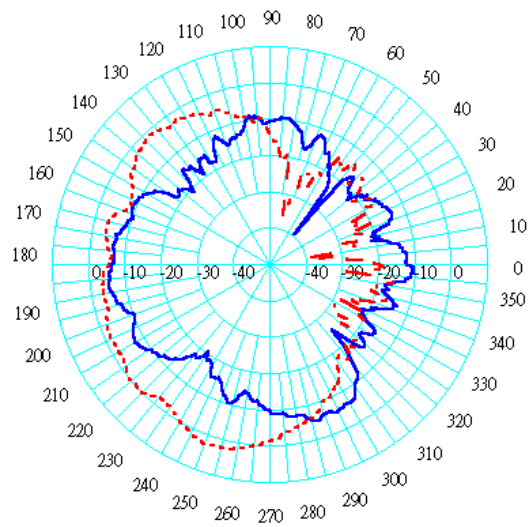
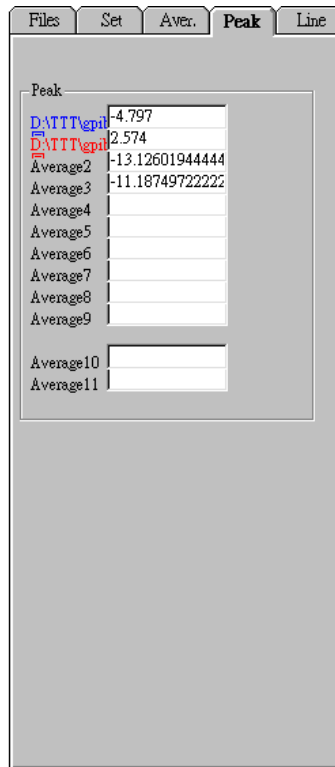


Center Frequency	5250
Horizontal (dBi) peak	-5.507
Vertical (dBi) peak	2.058

Auxiliary antenna: 5350 MHz

BLUE__H-PLANE

RED__E-PLANE



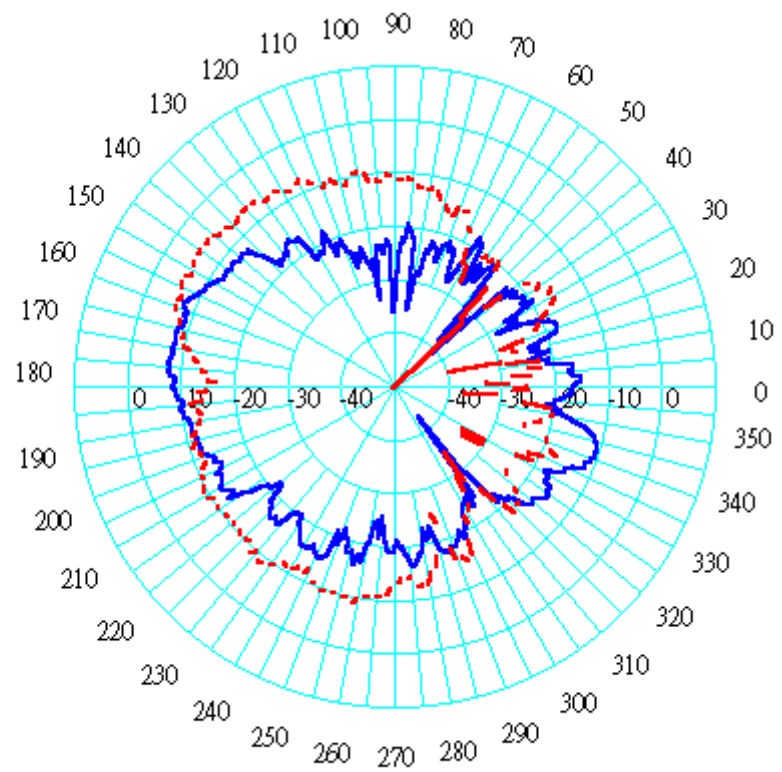
Center Frequency	5350
Horizontal (dBi) peak	-4.797
Vertical (dBi) peak	2.574

Main antenna: 5725 MHz

BLUE_H-PLANE

RED_VH-PLANE

Files	Set	Aver.	Peak	Line
Peak				
D:\TTT\gpil			-7.422	
D:\TTT\gpil			-5.448	
Average2			-18.5243472222	
Average3			-15.3966638888	
Average4				
Average5				
Average6				
Average7				
Average8				
Average9				
Average10				
Average11				

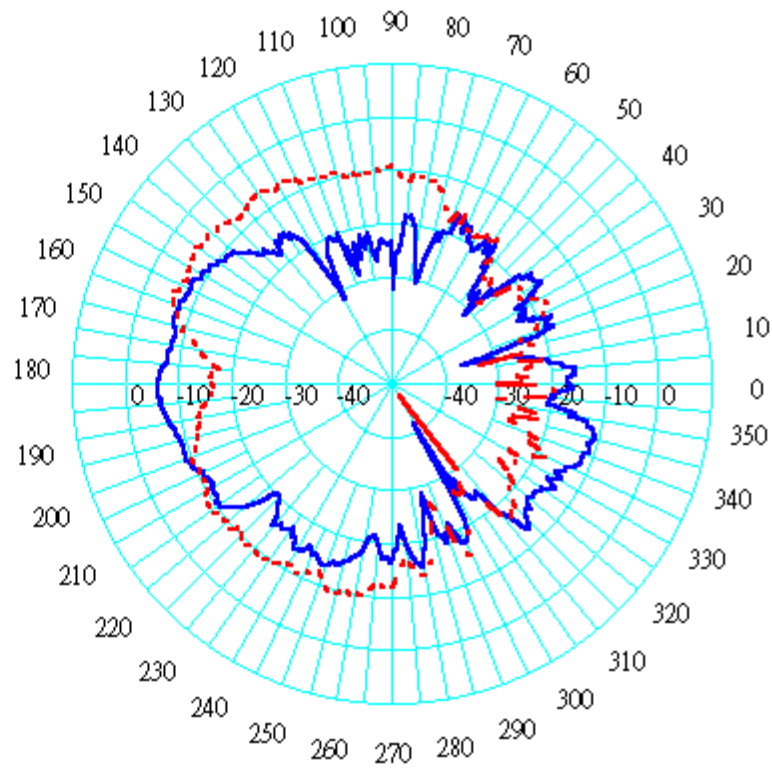
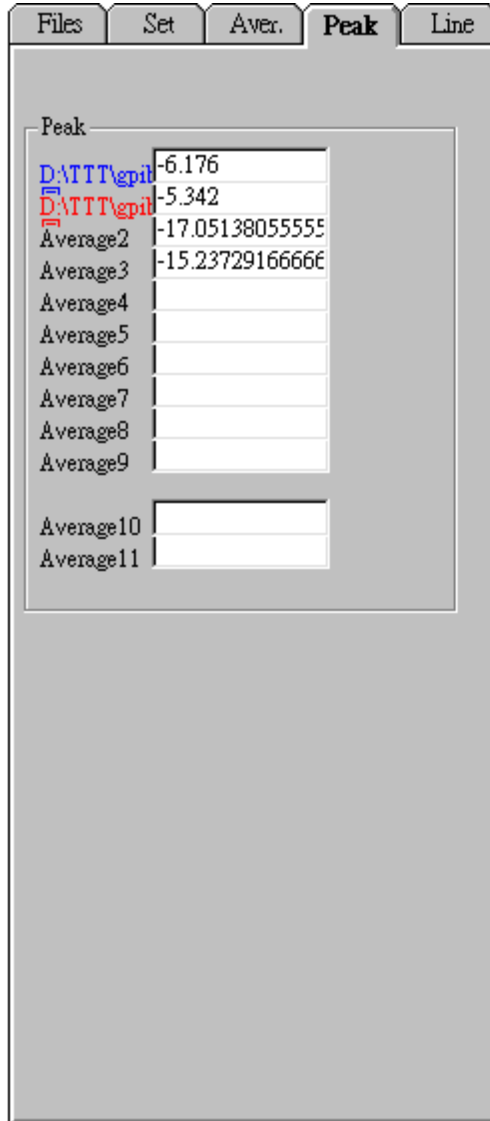


Center Frequency	5725
Horizontal (dBi) peak	-7.422
Vertical (dBi) peak	-5.448

Main antenna: 5850 MHz

BLUE__H-PLANE

RED__E-PLANE

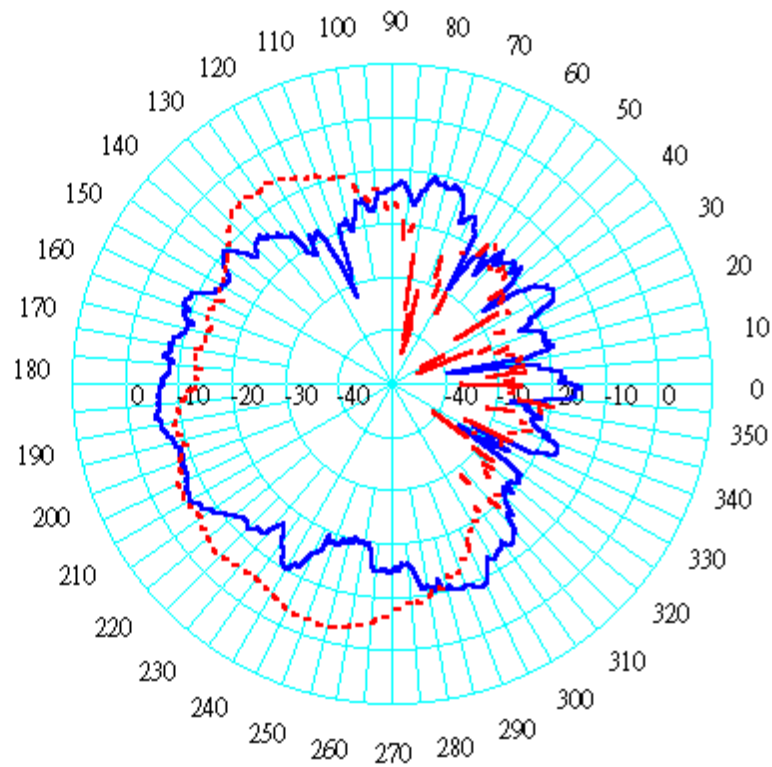
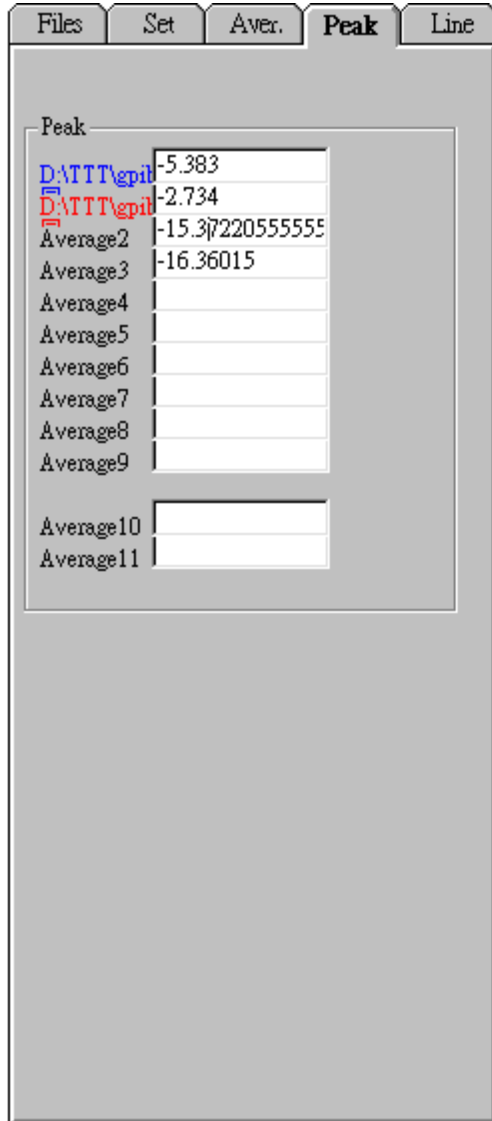


Center Frequency	5850
Horizontal (dBi) peak	-6.176
Vertical (dBi) peak	-5.342

Auxiliary antenna: 5725 MHz

BLUE__H-PLANE

RED__E-PLANE

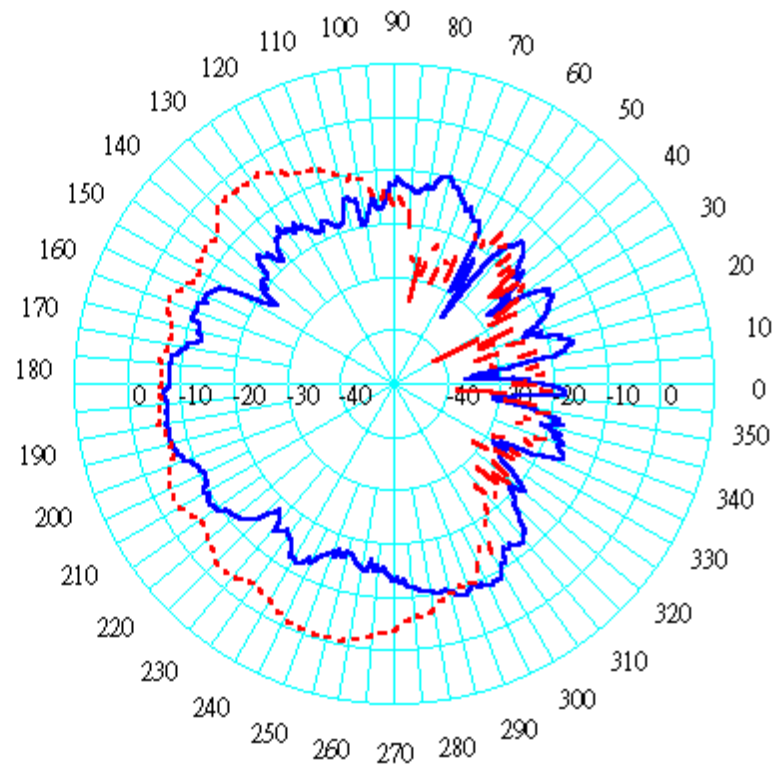
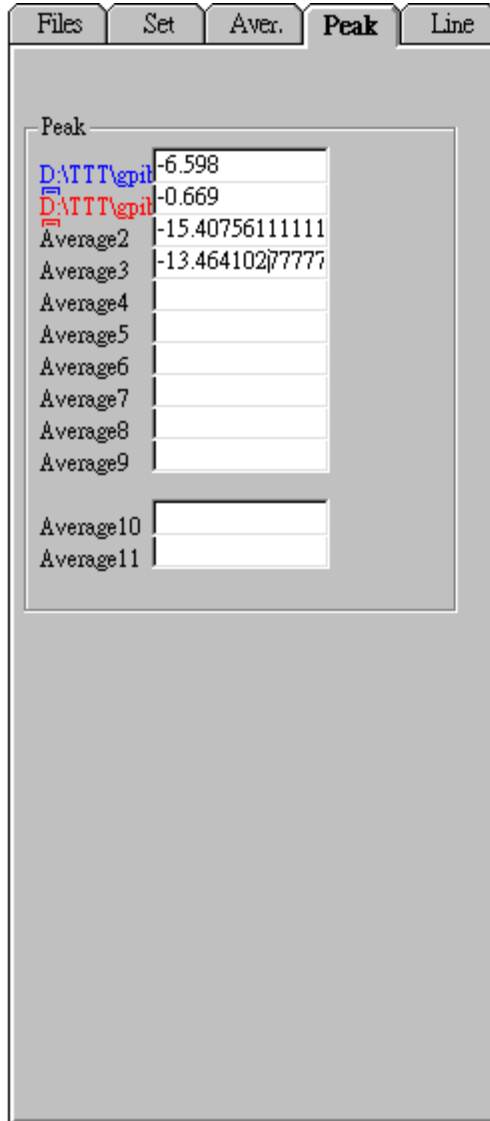


Center Frequency	5725
Horizontal (dBi) peak	-5.383
Vertical (dBi) peak	-2.734

Auxiliary antenna: 5850 MHz

BLUE__H-PLANE

RED__E-PLANE



Center Frequency	5850
Horizontal (dBi) peak	-6.598
Vertical (dBi) peak	-0.669