Regulatory WLAN Antenna Information

(English Language Required for Intel Regulatory Review / Approval)

*(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.
Remove Intel references and make this your own document)*

OEM Vendor Name: **Tatung Company**

Platform Name: **TTAB-B12D / ETAB-B12D / RTAB912-T01 SC2000/SC2010/SC2100/SC2200**

Antenna Vendor Name: **Antenniques Corp. Ltd.**

Antenna Sample / Antenna Data
Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US / IC	EU	Japan	Taiwan	S.Korea
1A	Part Number for Antenna only	Required	Required	Required	Required	Required
1B	Antenna Manufacturer Name	Required	Required	Required	Required	Required
1C	Description of Antenna Type	Required	N/A	N/A	N/A	N/A
1D	Part number of Antenna Assembly / cable impedance, length & diameter.	Required	Desired	Desired	Desired	Desired
1E	Main & Aux antenna (Peak Gain W/ cable loss)	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Main & Aux antenna (Peak Gain only)	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Main & Aux antenna (Cable loss W/ connector)	Required	Required	Required	Required	Required
2	Dimensioned Photographs and Drawings of main & auxiliary antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	Required	Desired	Required	N/A	Required
4	Platform model name / number - correlated to antenna manufacturer and antenna part number	Required	Required	Desired	Required	Desired
5	Photograph(s) or Drawings showing location of antennas in platform. (S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.	Required	Required	Desired	Required (Photos)	Required (Photos)
6	Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).	Required	N/A	N/A	N/A	N/A
7	Photograph(s) or Drawings showing the location of all antennas (WLAN, BT, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.	Required	N/A	N/A	N/A	N/A

Antenna Information

Section 1. Antenna Assembly Specifications

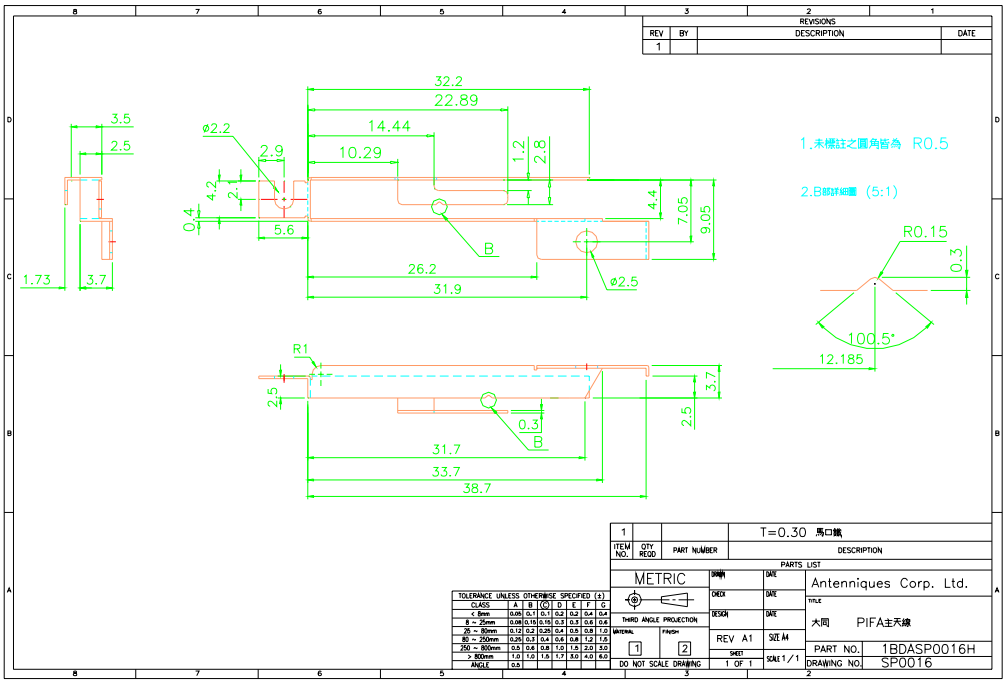
Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
(P/N:5773700051) 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)	2400-2500MHz -2.075dBi (peak)	2400-2500MHz 1.475 max	2400-2500MHz -0.925dBi (peak)
				5150-5350MHz -2.964 dBi (peak)	5150-5350MHz -2.079dBi (peak)	5150-5350MHz 1.517 max	5150-5350MHz -1.632dBi (peak)
				5470-5725MHz -5.448 dBi (peak)	5470-5725MHz -4.763dBi (peak)	5470-5725MHz 2.412 max	5470-5725MHz -1.655dBi (peak)
				5725-5850MHz -5.342dBi (peak)	5725-5850MHz -4.457dBi (peak)	5725-5850MHz 2.5219 max	5725-5850MHz -1.685dBi (peak)
(P/N: 5773700050) 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)	2400-2500MHz -2.214dBi (peak)	2400-2500MHz 1.3044 max	2400-2500MHz -0.812dBi (peak)
				5150-5350MHz 2.058 dBi (peak)	5150-5350MHz 2.808dBi (peak)	5150-5350MHz 1.6744 max	5150-5350MHz -1.542dBi (peak)
				5470-5725MHz 2.574 dBi (peak)	5470-5725MHz 3.324dBi (peak)	5470-5725MHz 2.234 max	5470-5725MHz -1.491dBi (peak)
				5725-5850MHz -0.669 dBi (peak)	5725-5850MHz 0.199dBi (peak)	5725-5850MHz 2.5698 max	5725-5850MHz -1.583dBi (peak)

Section 2. Dimensioned Photos or Drawings of Antennas

Include a dimensioned photo and dimensioned drawing of main antenna here.

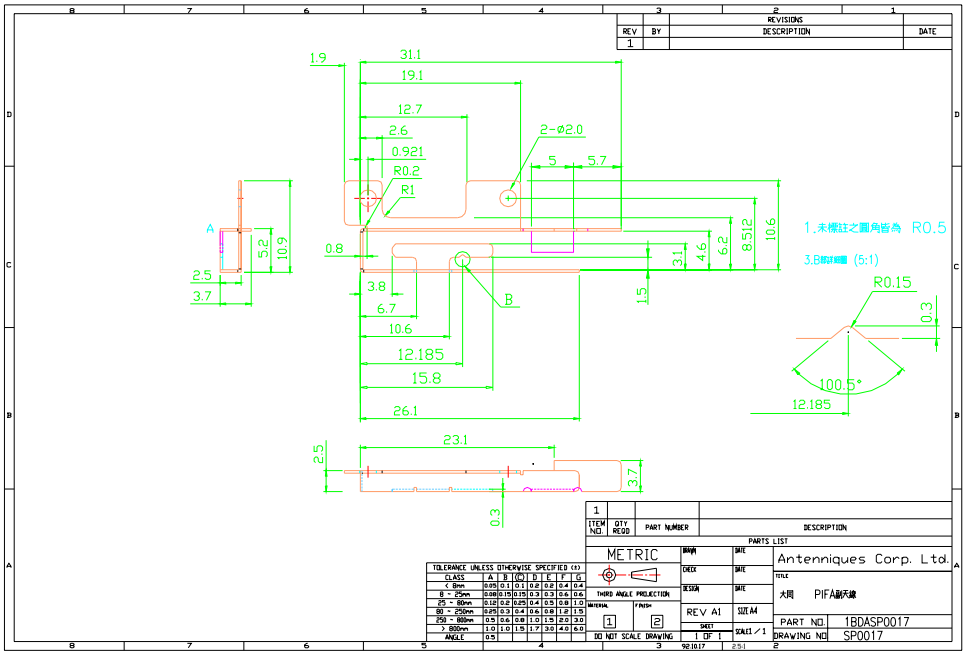
Main Antenna Dimensioned Drawing:



Main Antenna Photo:

Include a dimensioned photo and dimensioned drawing of aux antenna here.

Aux Antenna Dimensioned Drawing:



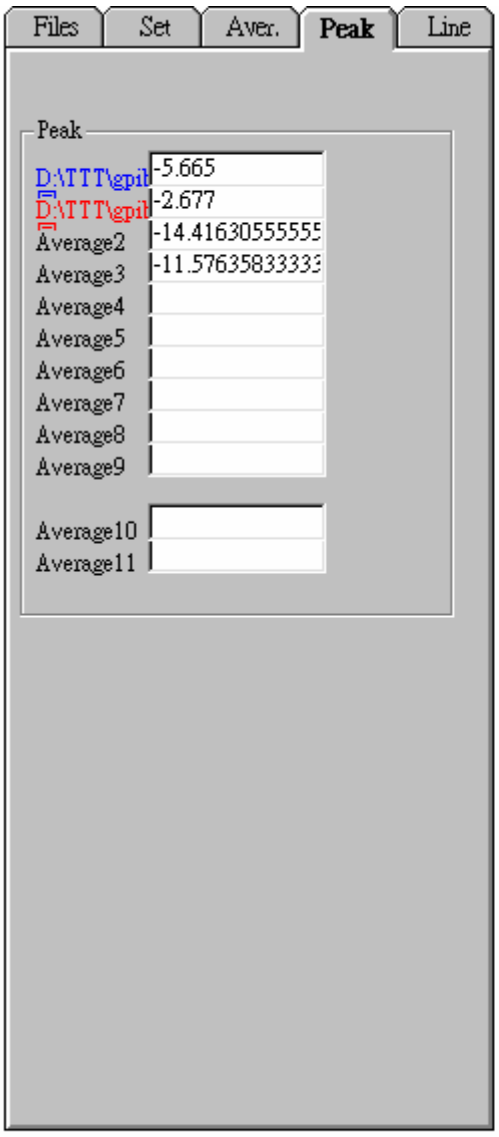
Aux Antenna Photo:

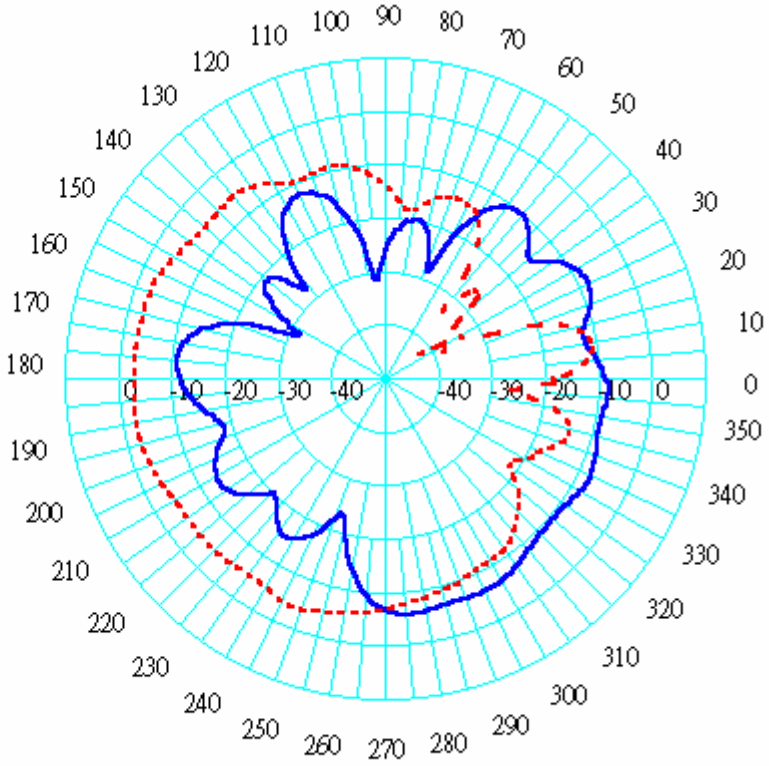
Section 3. Radiation characteristics of antennae Loaded in Host Platform

2400-2500MHz radiation characteristic

BLUE__H-PLANE

RED__E-PLANE



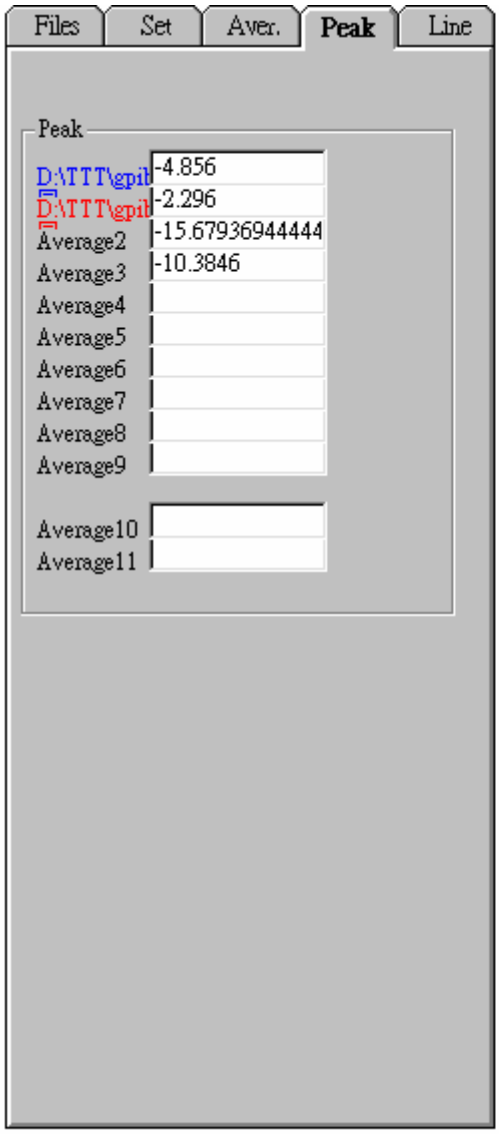


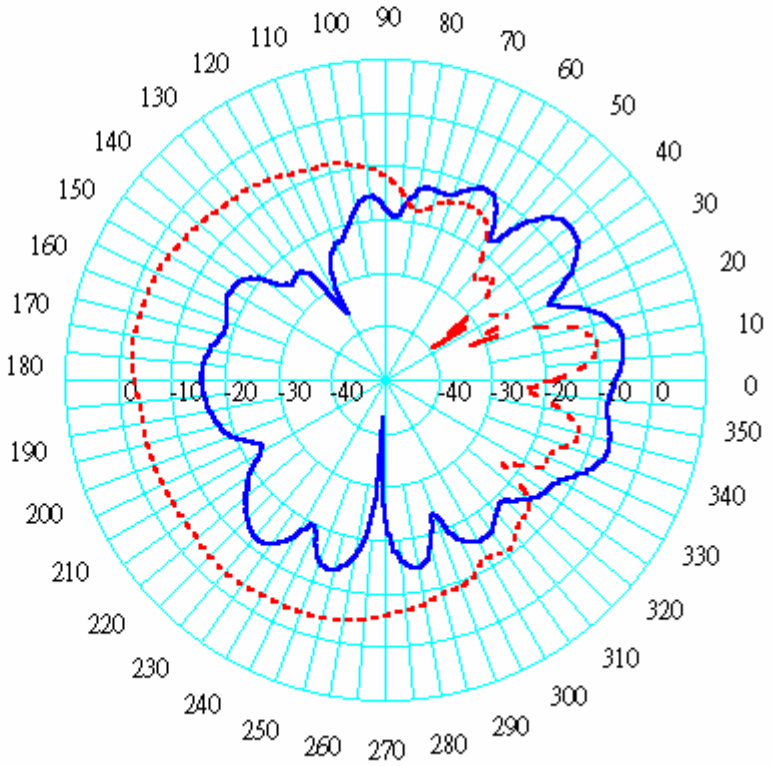
Center Frequ	2400
Horizontal	-5.665
Vertical (dBi)	-2.677

Main antenna: 2450 MHz

BLUE__H-PLANE

RED__E-PLANE



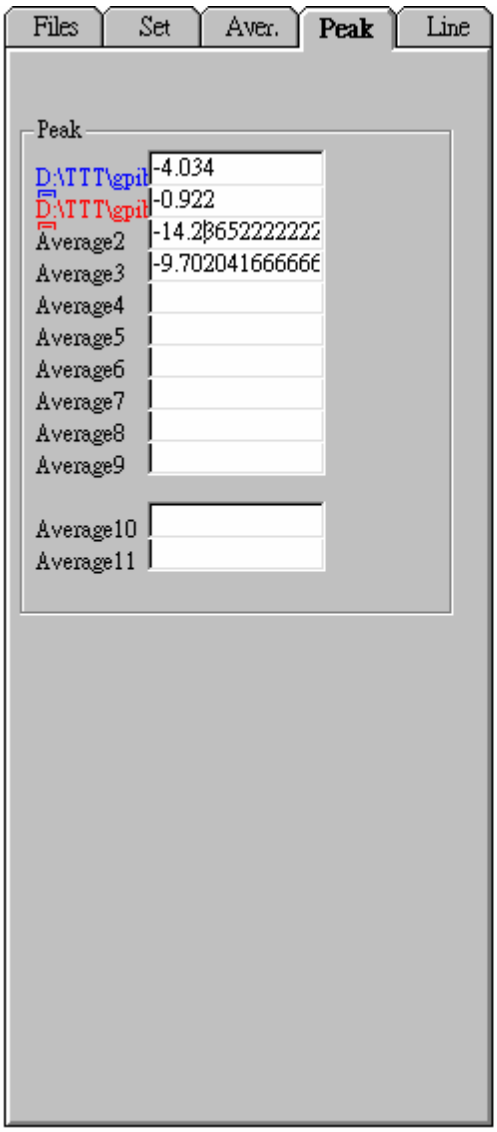


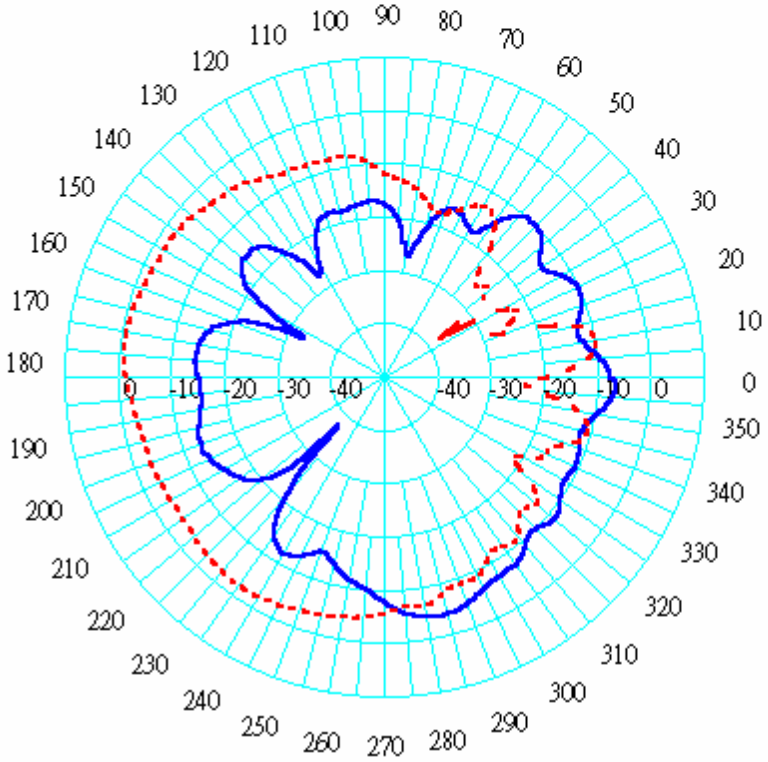
Center Frequ	2450
Horizontal	-4.856
Vertical (dBi)	-2.296

Main antenna: 2500 MHz

BLUE__H-PLANE

RED__E-PLANE



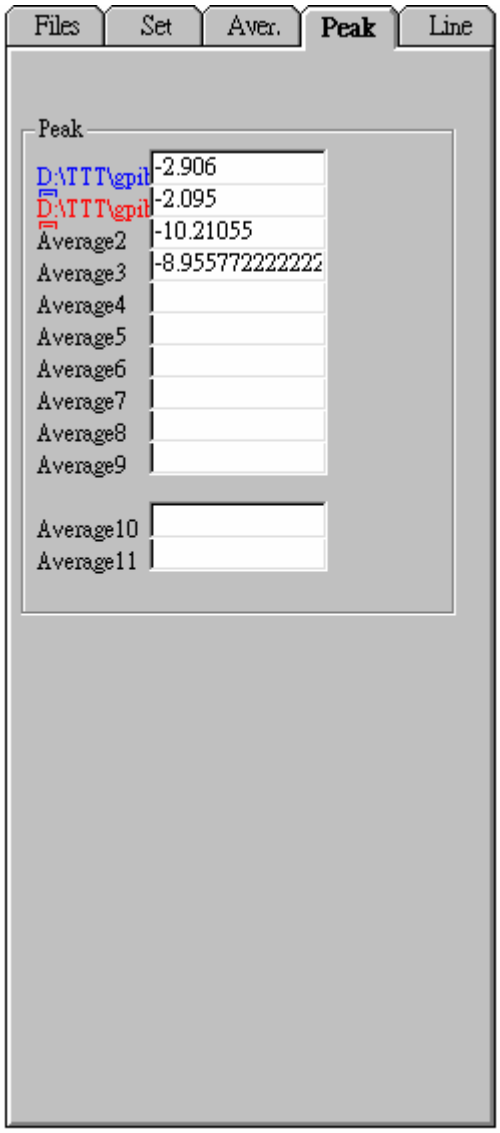


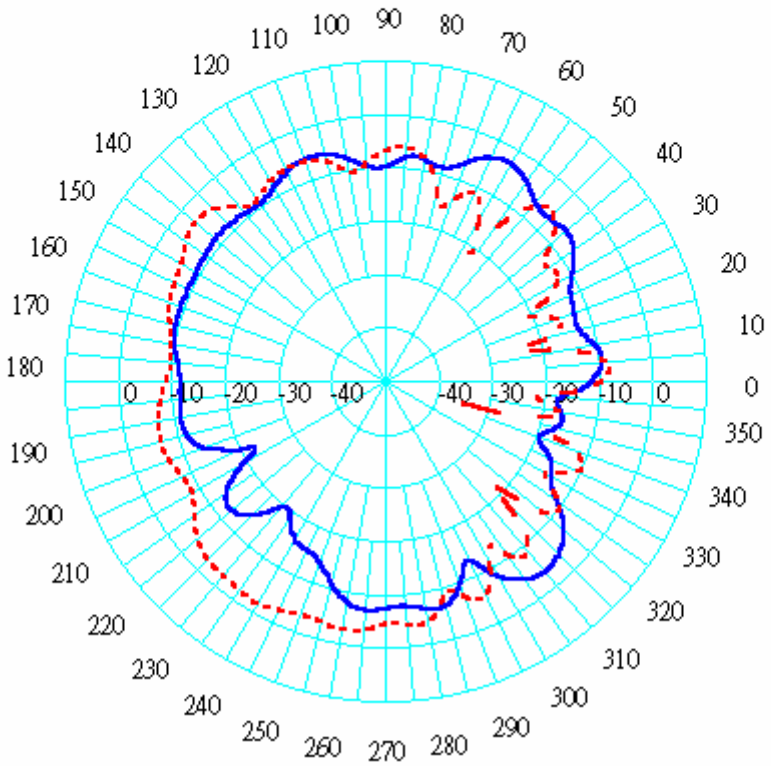
Center Frequ	2500MH
Horizontal	-4.034
Vertical (dBi)	-0.922

Auxiliary antenna: 2400 MHz

BLUE__H-PLANE

RED__E-PLANE



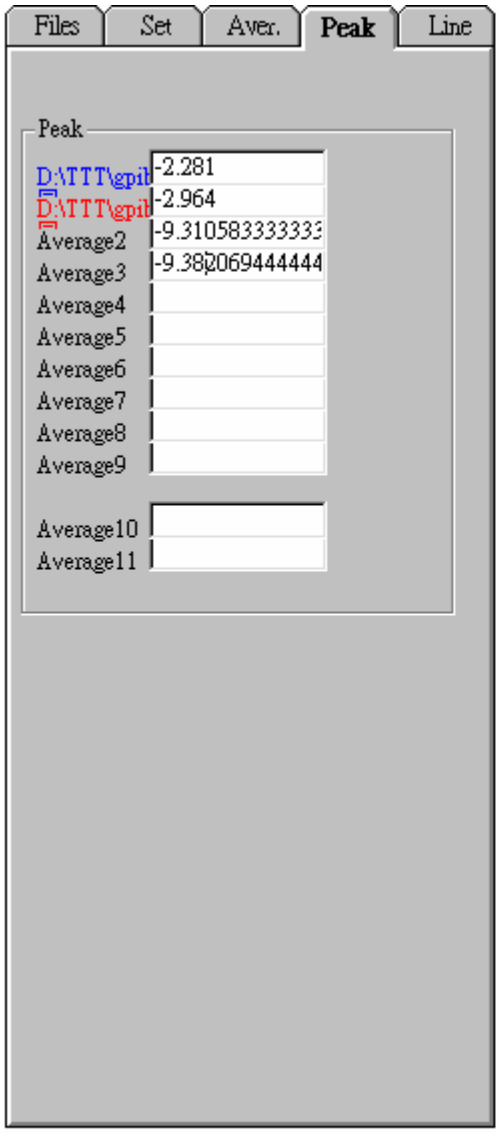


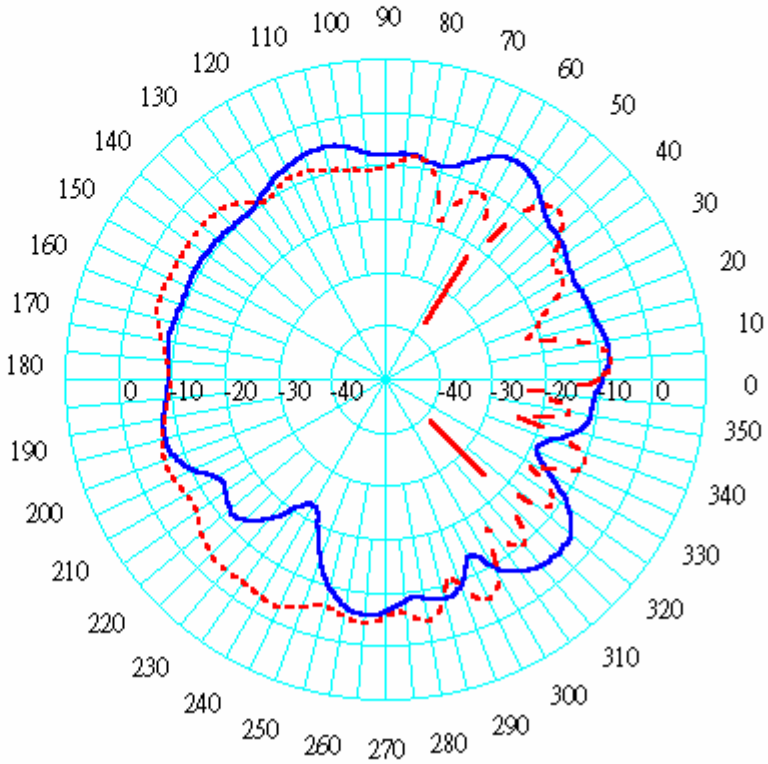
Center Frequ	2400
Horizontal	-2.906
Vertical (dBi)	-2.095

Auxiliary antenna: 2450 MHz

BLUE__H-PLANE

RED__E-PLANE



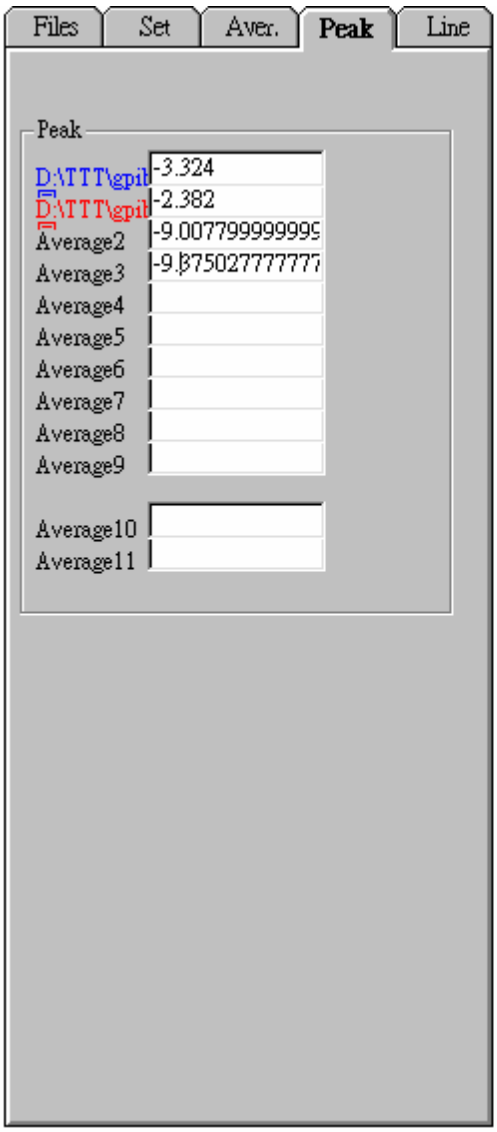


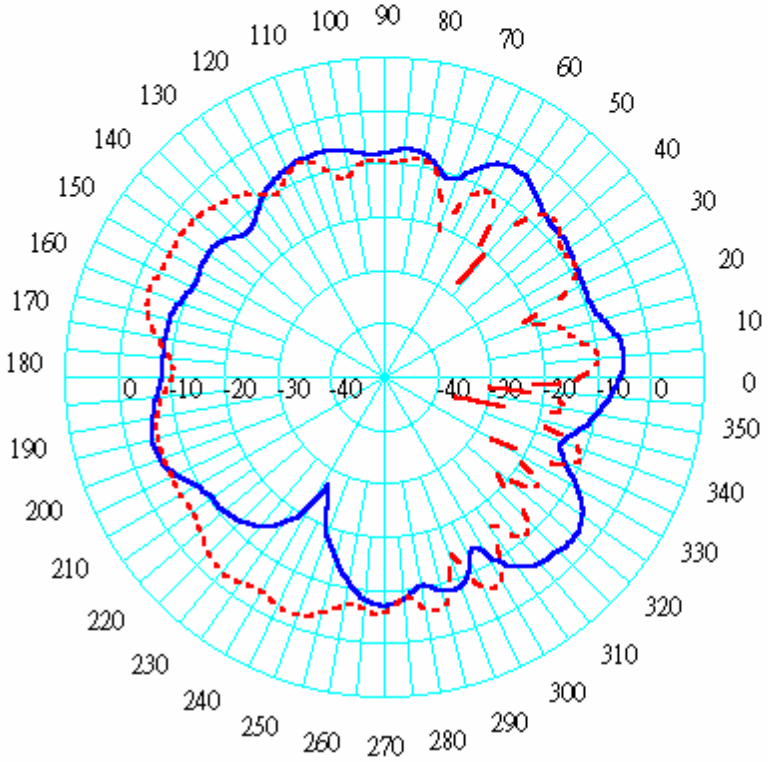
Center Frequ	*2450*
Horizontal	*-2.281*
Vertical (dBi)	*-2.964*

Auxiliary antenna: 2500 MHz

BLUE__H-PLANE

RED__E-PLANE



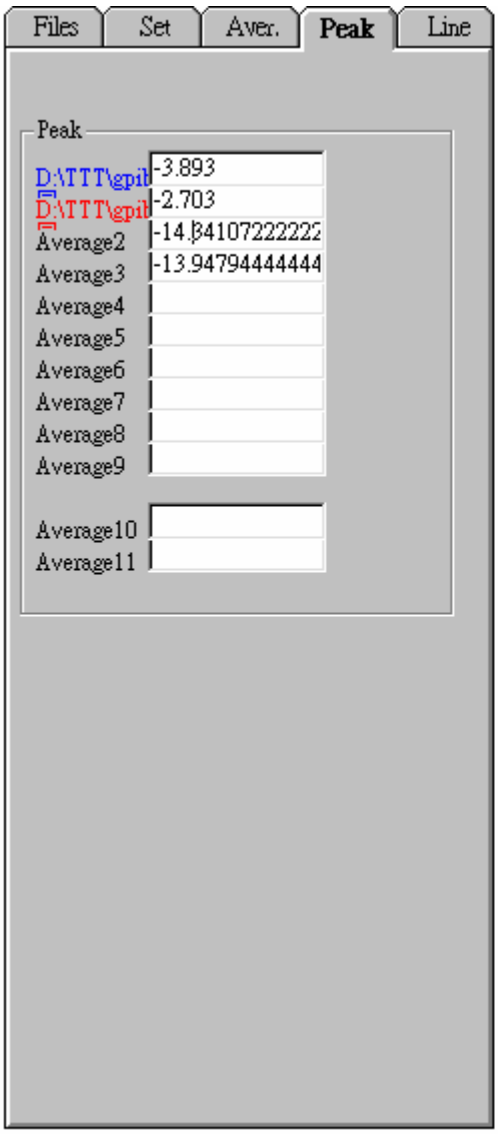


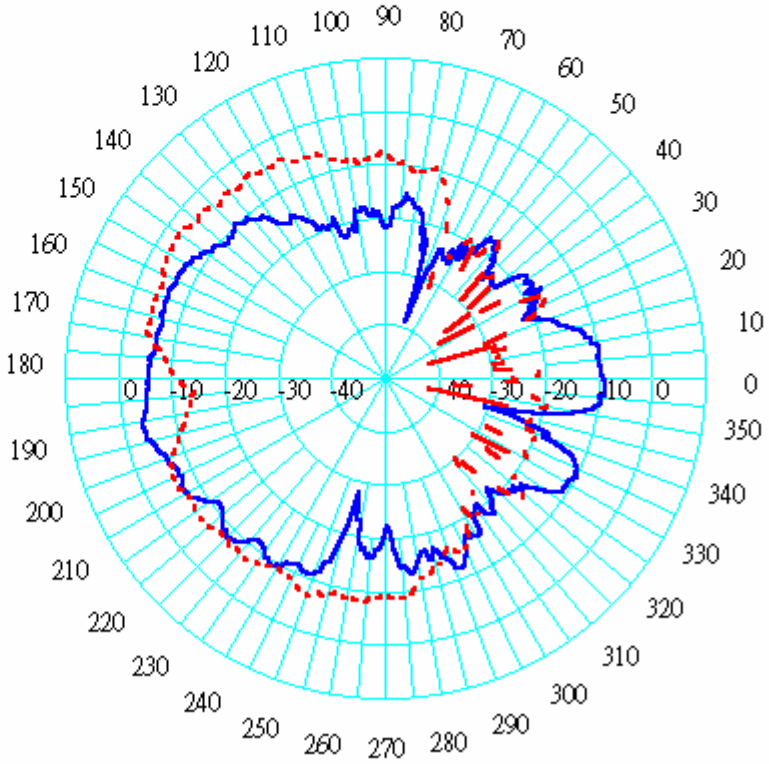
Center Frequ	*250*
Horizontal	*-3.324*
Vertical (dBi)	*-2.382*

5150-5135 MHz radiation characteristic
Main antenna: 5150 MHz

BLUE__H-PLANE

RED__E-PLANE



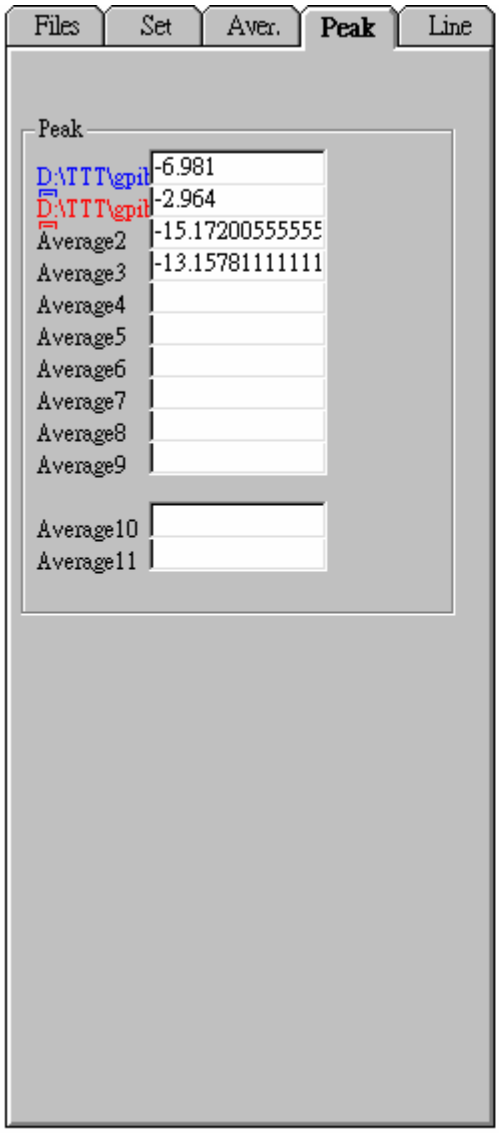


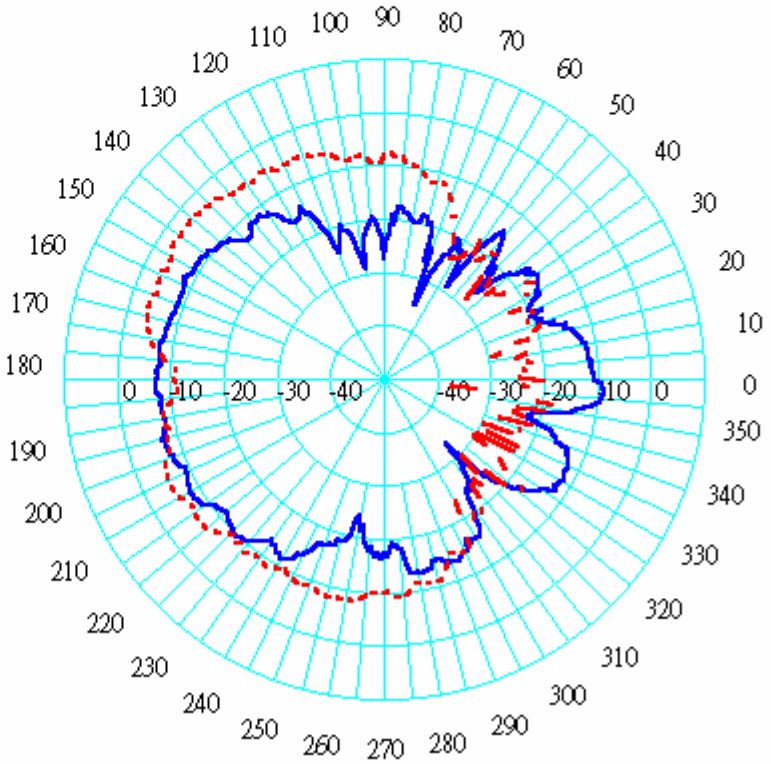
Center Frequ	5150
Horizontal	-3.893
Vertical (dBi)	-2.703

Main antenna: 5250 MHz

BLUE__H-PLANE

RED__E-PLANE



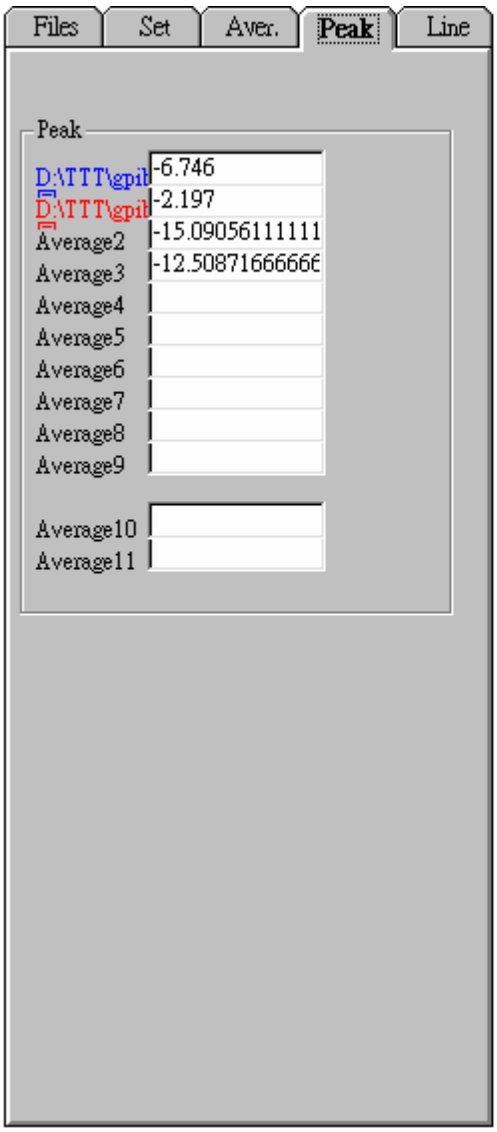


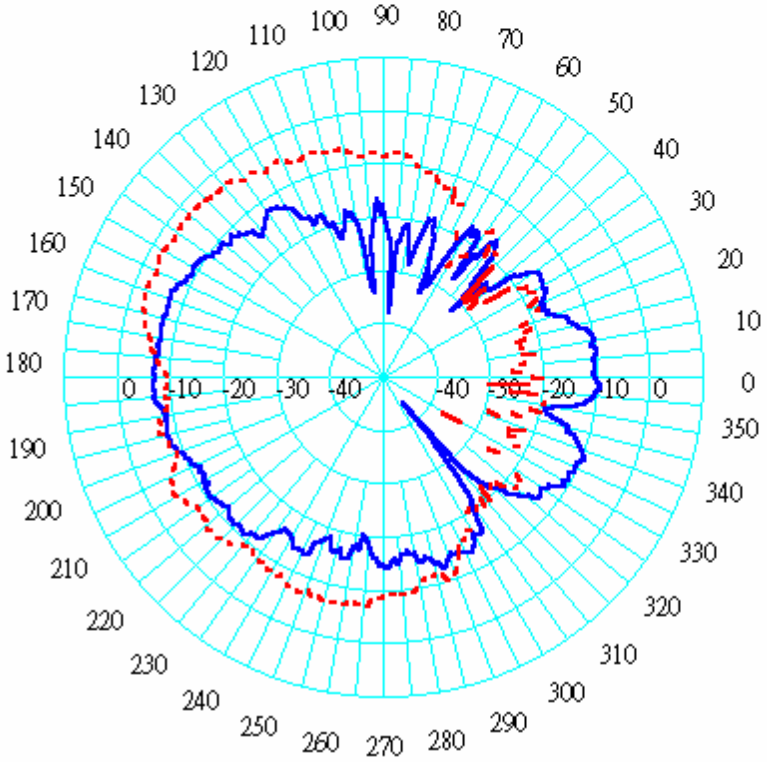
Center Frequ	5250
Horizontal	-6.981
Vertical (dBi)	-2.964

Main antenna: 5350 MHz

BLUE__H-PLANE

RED__E-PLANE



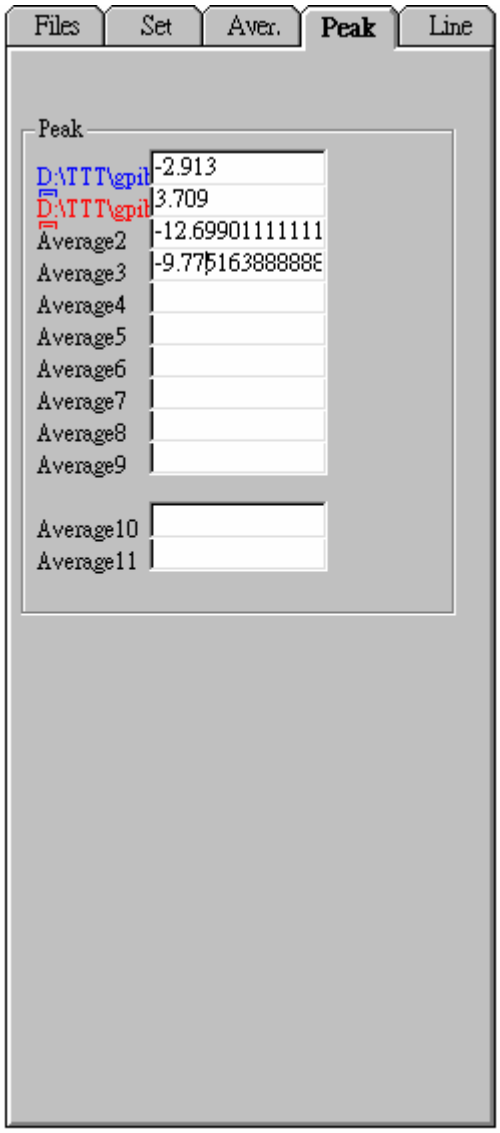


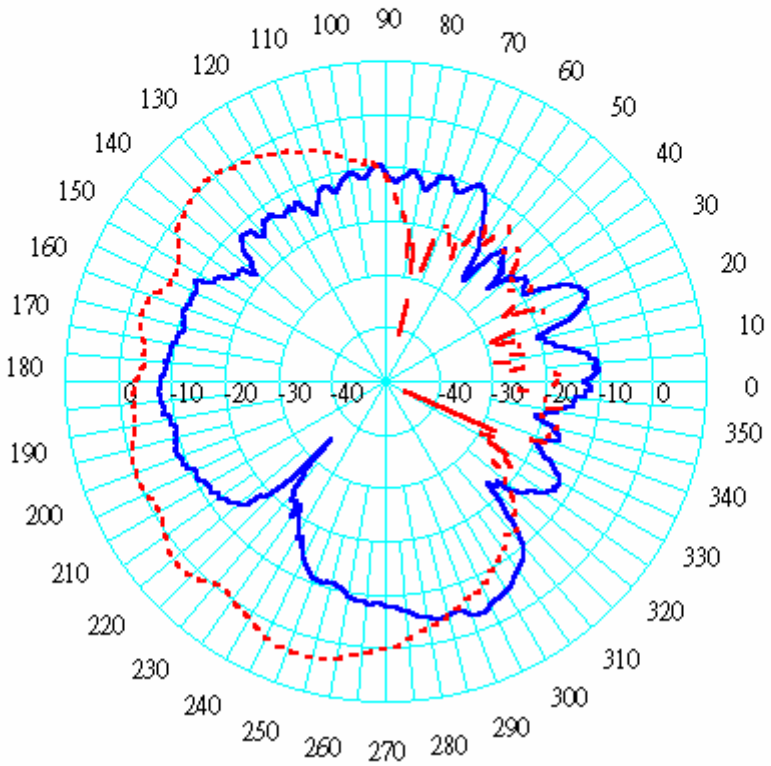
Center Frequ	5350
Horizontal	-6.746
Vertical (dBi)	-2.197

Auxiliary antenna: 5150 MHz

BLUE__H-PLANE

RED__E-PLANE



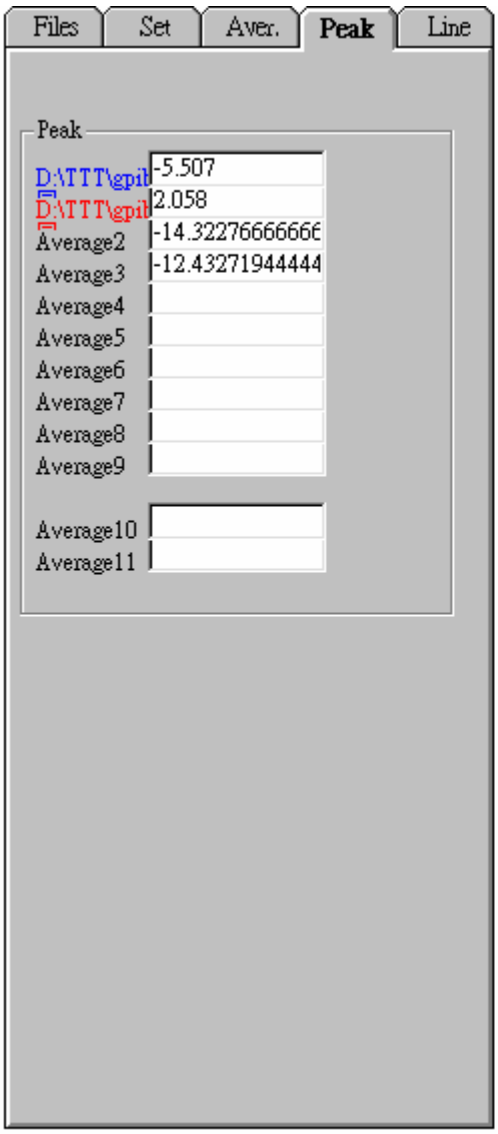


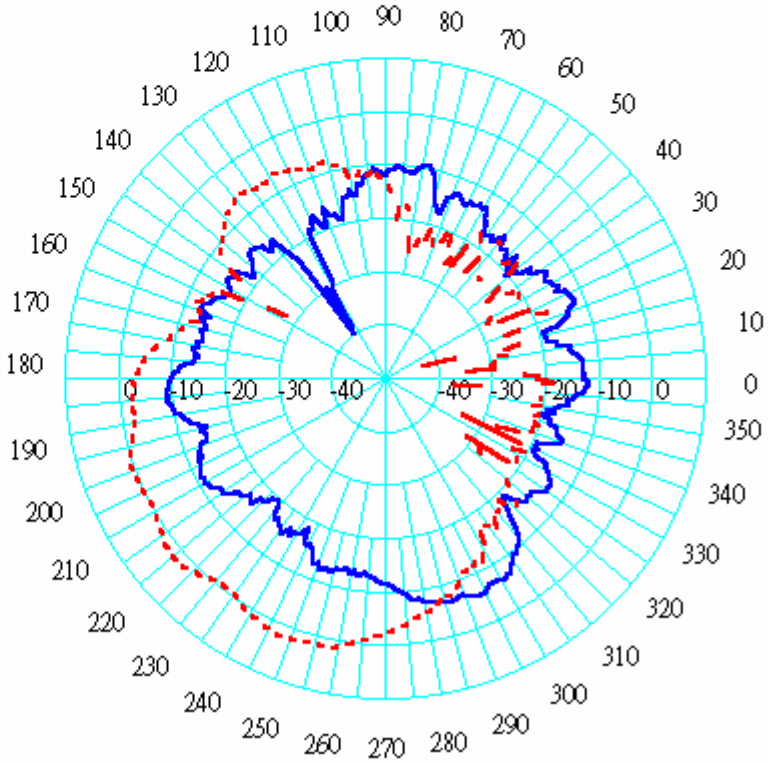
Center Frequ	*5150*
Horizontal	*-2.913*
Vertical (dBi)	*3.709*

Auxiliary antenna: 5250 MHz

BLUE__H-PLANE

RED__E-PLANE



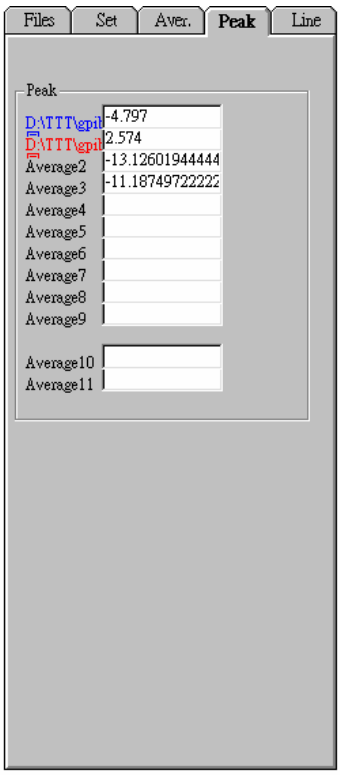


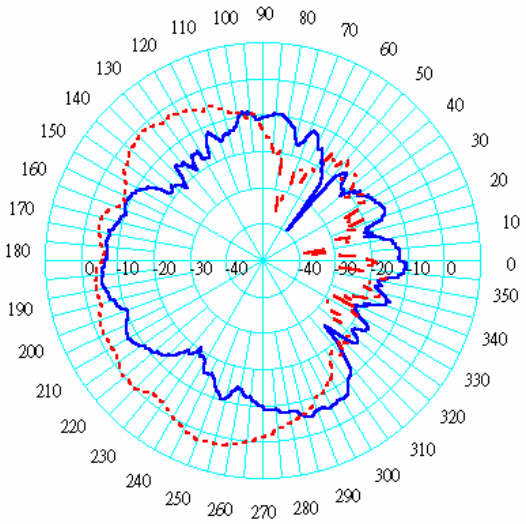
Center Frequ	5250
Horizontal	-5.507
Vertical (dBi)	2.058

Auxiliary antenna: 5350 MHz

BLUE__H-PLANE

RED__E-PLANE



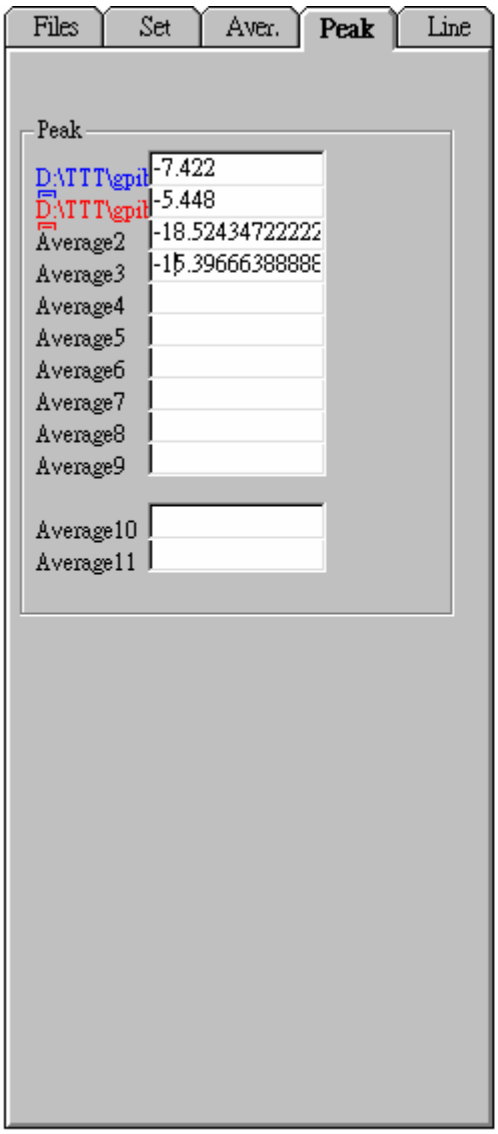


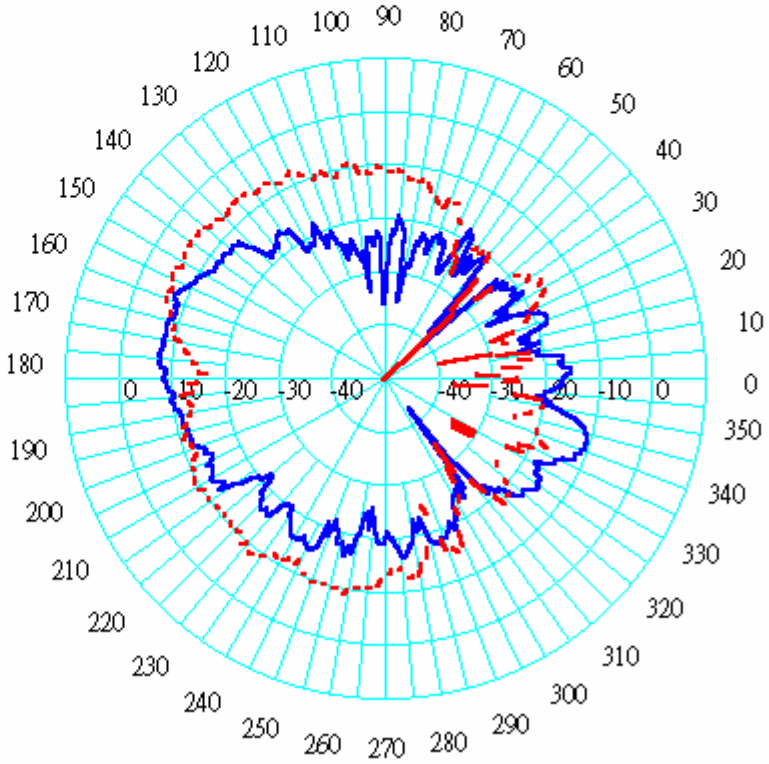
Center Frequ	*5350*
Horizontal	*-4.797*
Vertical (dBi)	*2.574*

Main antenna: 5725 MHz

BLUE__H-PLANE

RED__EH-PLANE



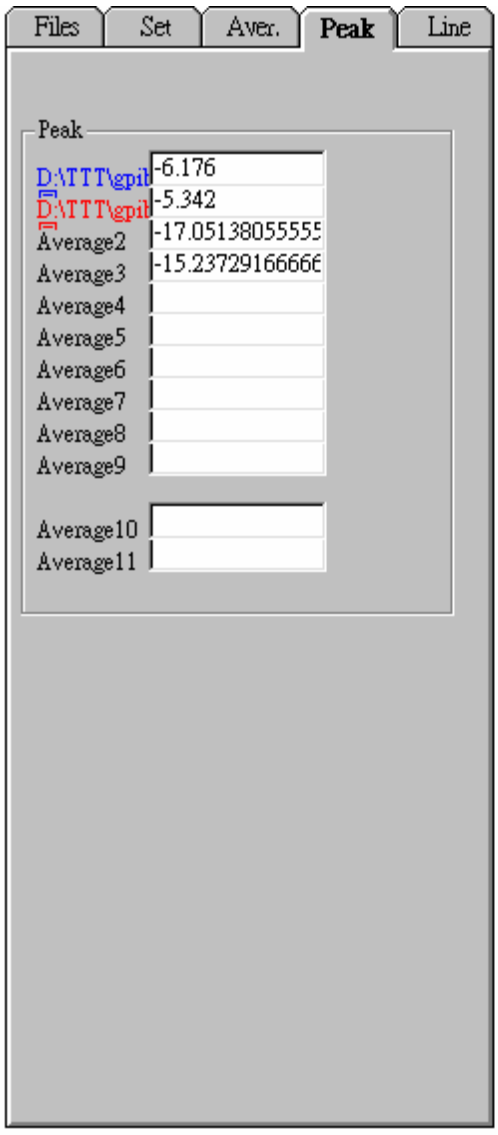


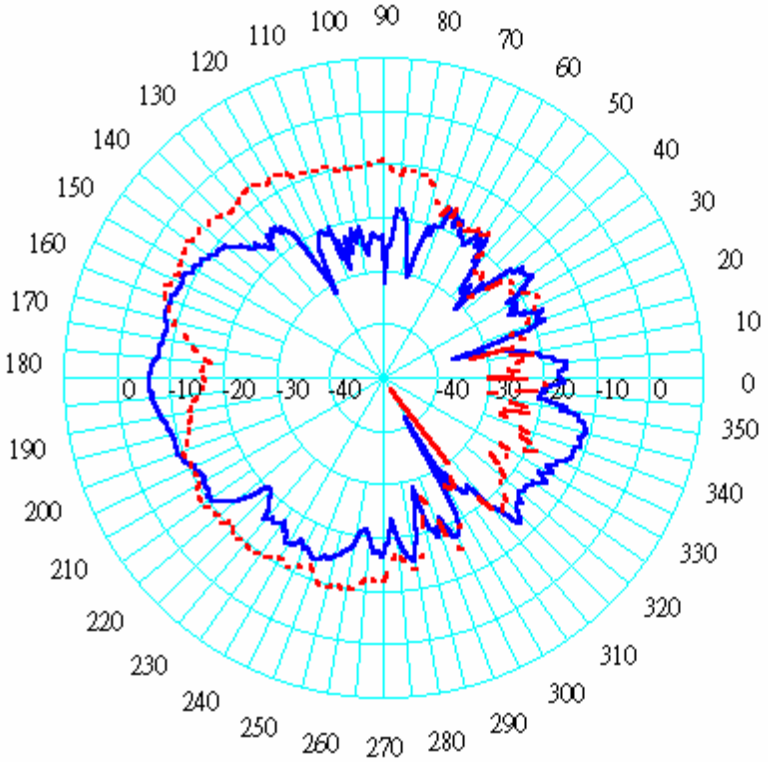
Center Frequ	5725
Horizontal	-7.422
Vertical (dBi)	-5.448

Main antenna: 5850 MHz

BLUE__H-PLANE

RED__E-PLANE



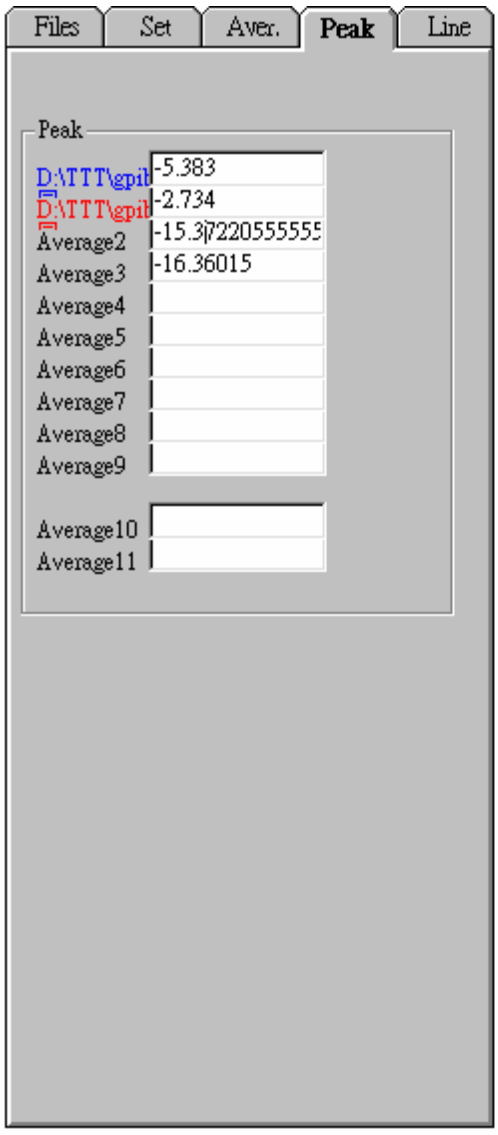


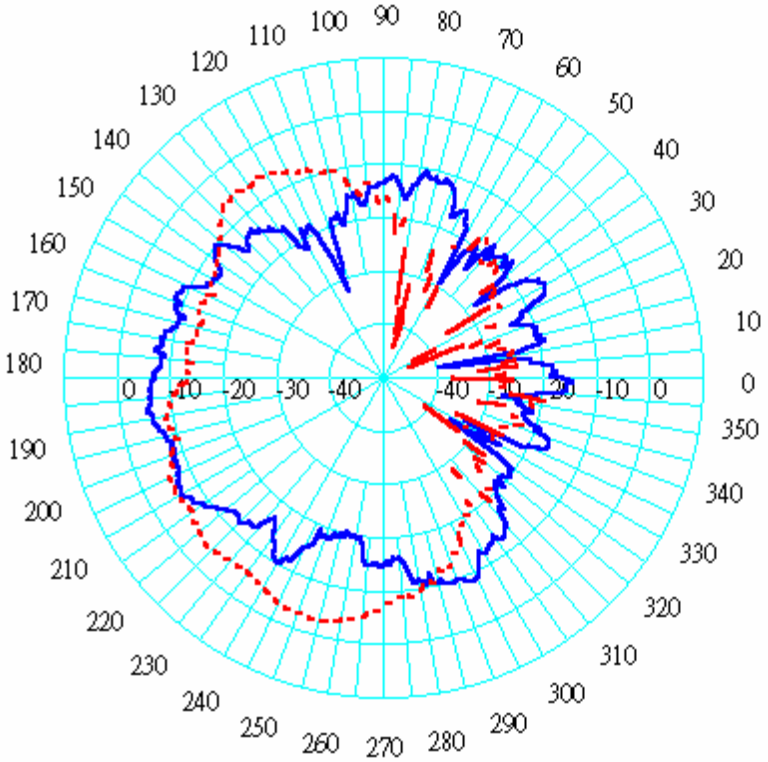
Center Frequ	5850
Horizontal	-6.176
Vertical (dBi)	-5.342

Auxiliary antenna: 5725 MHz

BLUE__H-PLANE

RED__E-PLANE



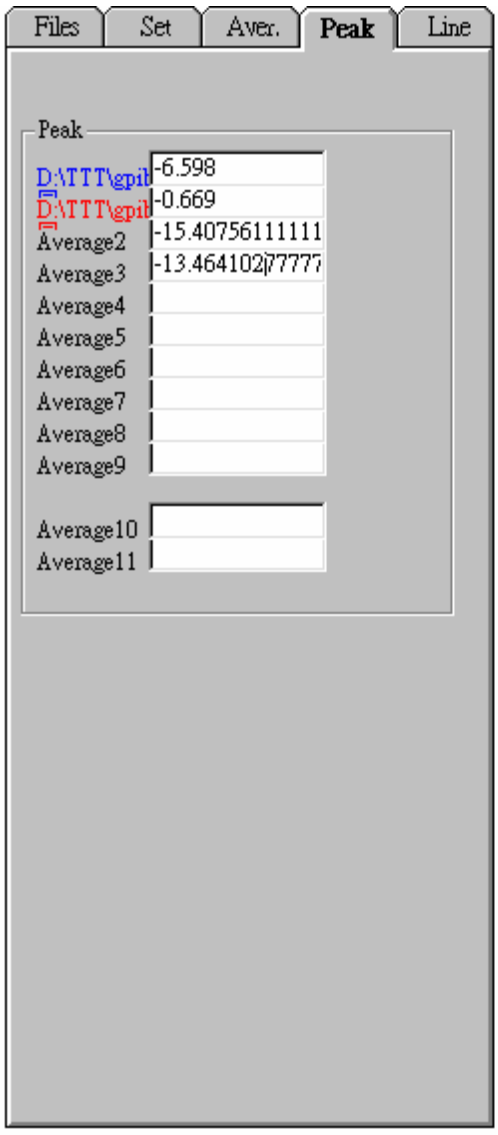


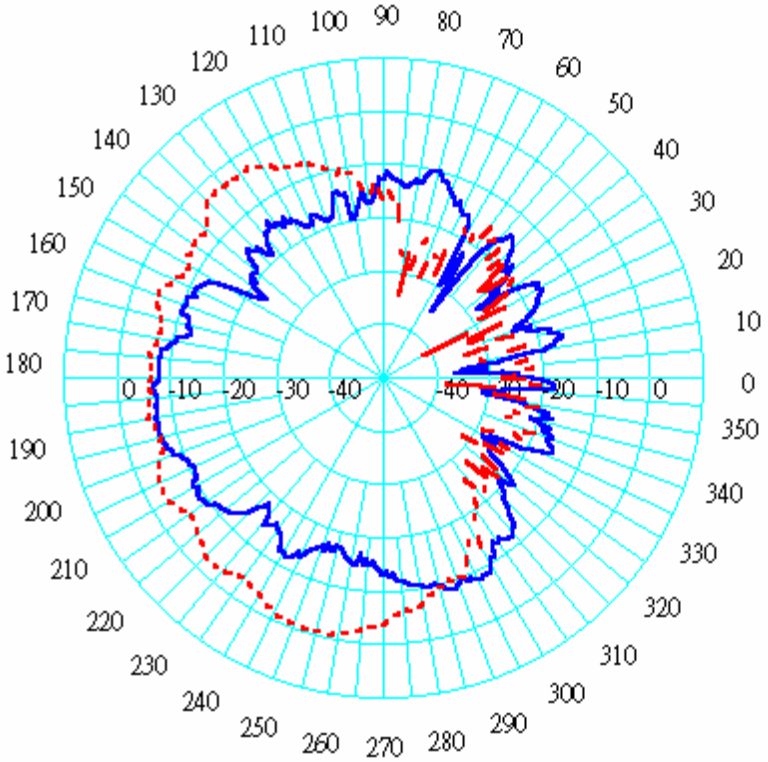
Center Frequ	*5725*
Horizontal	*-5.383*
Vertical (dBi)	*-2.734*

Auxiliary antenna: 5850 MHz

BLUE__H-PLANE

RED__E-PLANE





Center Frequ	*5850*
Horizontal	*-6.598*
Vertical (dBi)	*-0.669*

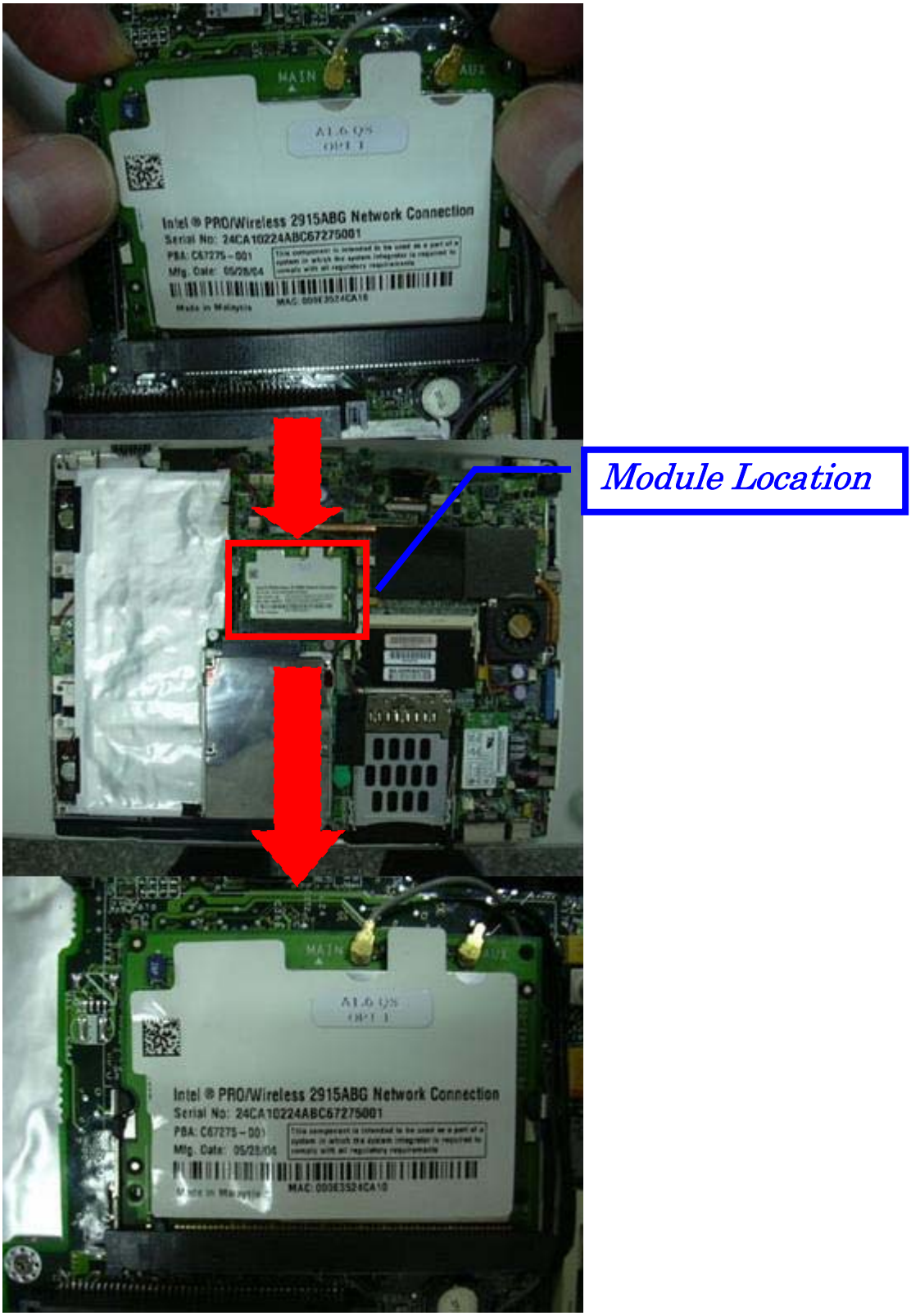
Section 4. Host Platform Information

OEM / ODM Host platform: (TTAB-B12D) platform correlated to antenna data

Rating Label Photo:

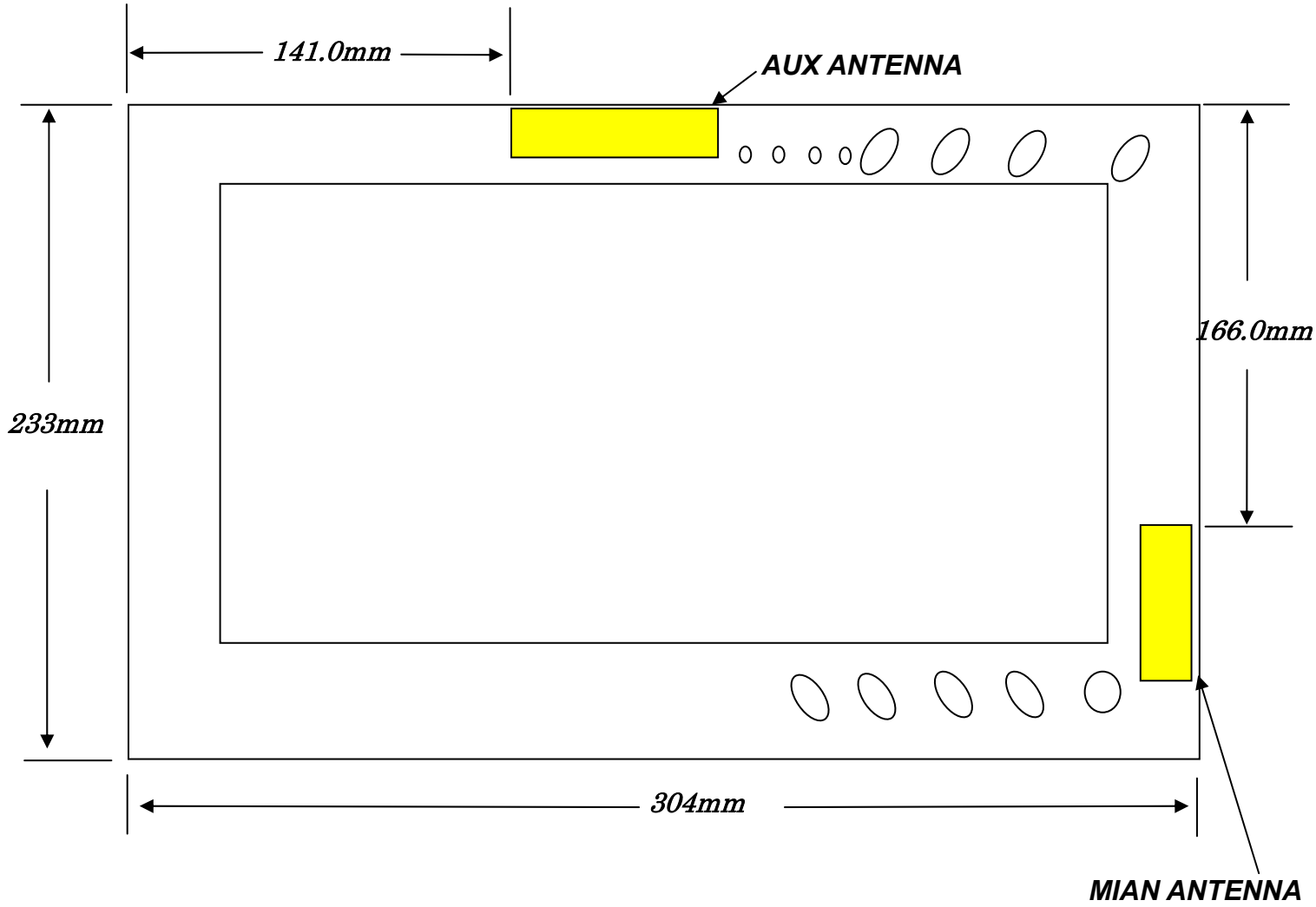
Module Location Photo: (if Singapore required)

Host model:



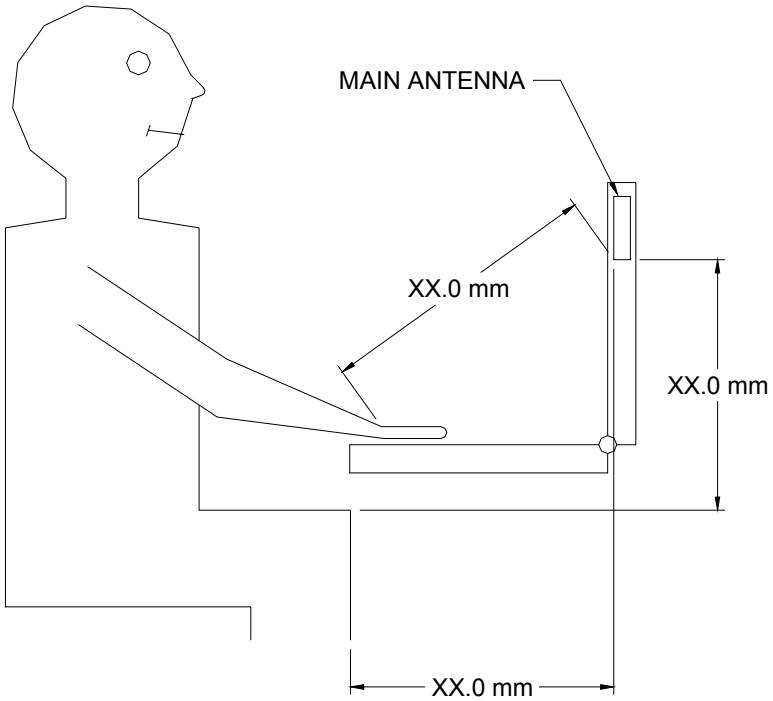
Section 5. Antenna Host Platform Location Information

Include a dimensioned photos or dimensioned drawings of main and auxiliary antenna placements.



Section 6. Antenna dimensional information for SAR evaluation

Include a dimensioned photos or dimensioned drawings showing the distance (mm) between the transmit (main) antenna and the user (excluding hands, wrist, feet, and ankle)



Section 7. Diagram Example of Co-Location Antenna Separation

Indicate distance between WLAN module antennas and Bluetooth/other radio antenna element.

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)

No Bluetooth/other radio antenna element !!!