

# Regulatory WLAN Antenna Information

	Vendor Name	Project Code
<b>Antenna</b>	<b>Wistron Neweb Corporation</b>	EDT-U

## 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 <b>and</b> 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. <b>(S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.</b>	Required	Required	Desired	Required <b>(Photos)</b>	Required <b>(Photos)</b>
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:

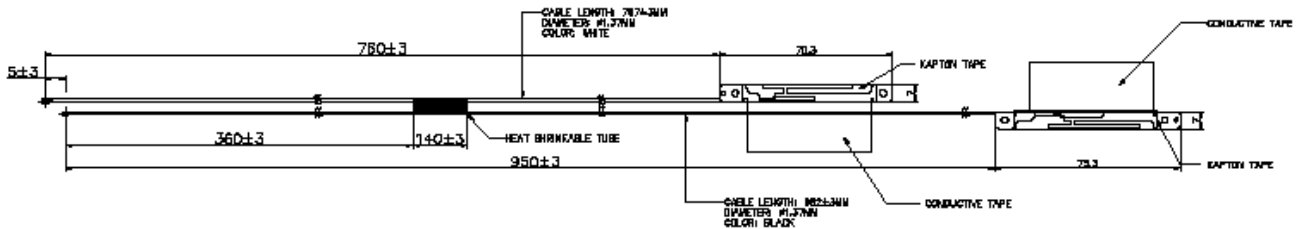
#### Antenna Assembly Summary:

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)
Main Antenna (WNC P/N: 81.EDT15.001) (customer P/N: 14-152027002)	Wistron Neweb Corporation	IFA	P/N: WH-9-1.37 B-982 MM-(2-2-1) & 1.37 W-787 MM-(2-2-1) 50 ohm Coaxial. length: 787 mm diameter: 1.37 mm Connector: IPEX	2400-2500MHz	2400-2500MHz	2400-2500MHz	2400-2500MHz
				<b>2.09</b> dBi (peak)	<b>4.29</b> dBi (peak)	<b>2.0</b> max	<b>2.20</b> dBi (peak)
				5150-5350MHz	5150-5350MHz	5150-5350MHz	5150-5350MHz
				<b>4.07</b> dBi (peak)	<b>7.05</b> dBi (peak)	<b>2.5</b> max	<b>2.99</b> dBi (peak)
AUX Antenna (WNC P/N: 81.EDT15.001) (customer P/N: 14-152027002)	Wistron Neweb Corporation	IFA	P/N: WH-9-1.37 B-788 MM-(2-2-1) & 1.37 B-647 MM-(2-2-1) 50 ohm Coaxial. length: 982 mm diameter: 1.37 mm Connector: IPEX	2400-2500MHz	2400-2500MHz	2400-2500MHz	2400-2500MHz
				<b>1.82</b> dBi (peak)	<b>4.52</b> dBi (peak)	<b>2.0</b> max	<b>2.69</b> dBi (peak)
				5150-5350MHz	5150-5350MHz	5150-5350MHz	5150-5350MHz
				<b>4.32</b> dBi (peak)	<b>7.99</b> dBi (peak)	<b>2.5</b> max	<b>3.67</b> dBi (peak)
				5470-5725MHz	5470-5725MHz	5470-5725MHz	5470-5725MHz
				<b>4.68</b> dBi (peak)	<b>8.57</b> dBi (peak)	<b>2.5</b> max	<b>3.88</b> dBi (peak)
				5725-5825MHz	5725-5825MHz	5725-5825MHz	5725-5825MHz
				<b>4.00</b> dBi (peak)	<b>7.94</b> dBi (peak)	<b>2.5</b> max	<b>3.94</b> dBi (peak)

## Section 2. Dimensioned Photos or Drawings of Antennas

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

### Main and Aux Antenna Dimensioned Drawing:



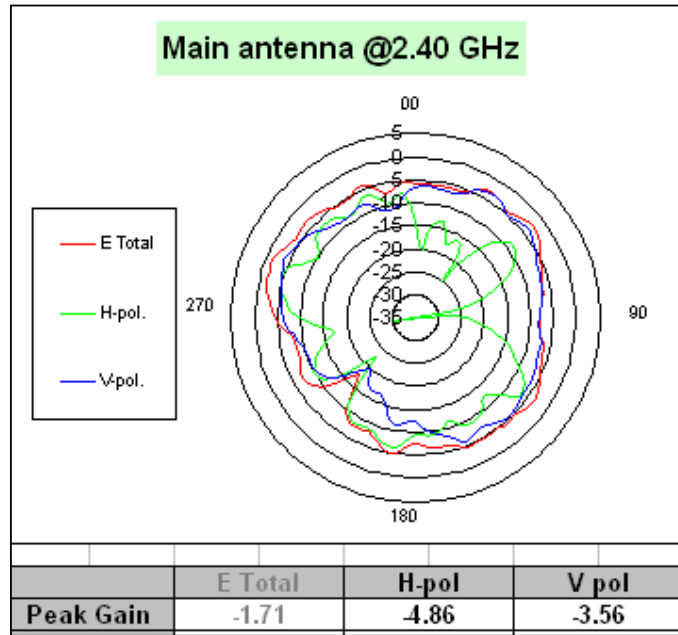
### Main and Aux Antenna Photo:



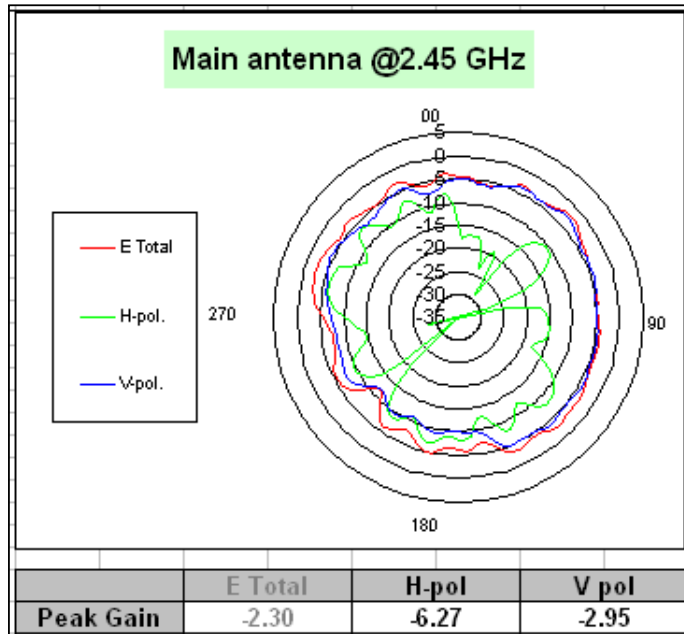
## Section 3. Radiation characteristics of antennae Loaded in Host Platform

### 2400-2500MHz radiation characteristic

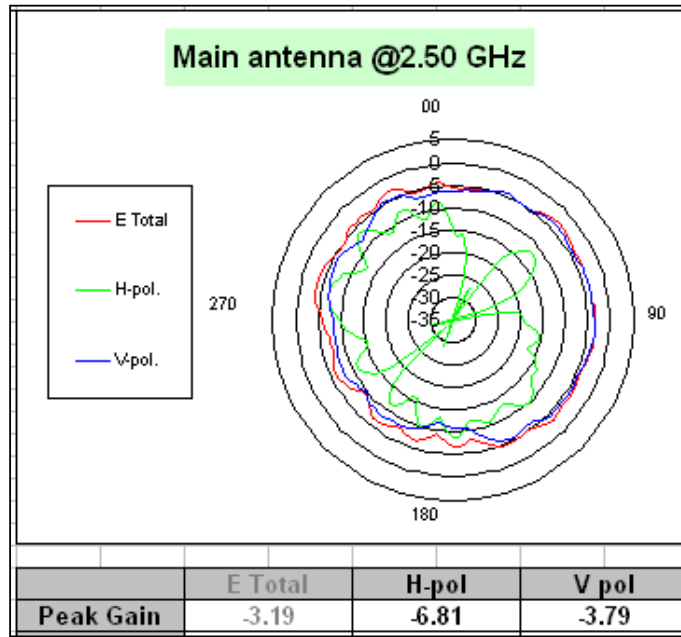
#### Main antenna: 2400 MHz



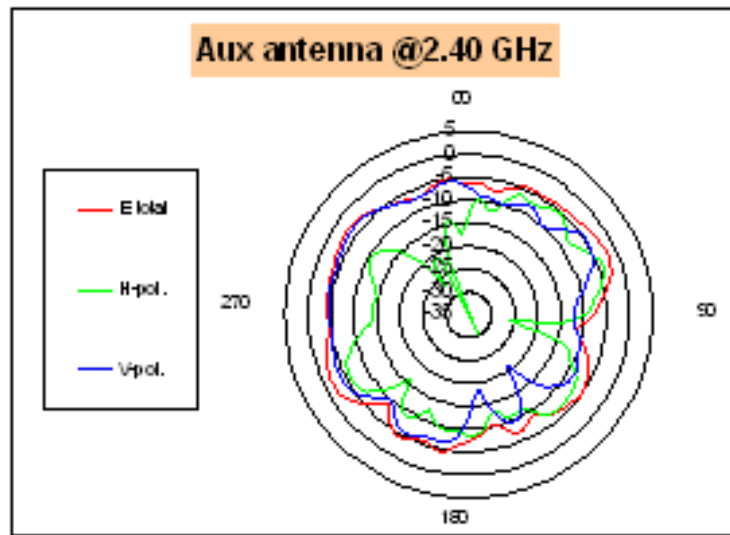
**Main antenna: 2450 MHz**



Main antenna: 2500 MHz

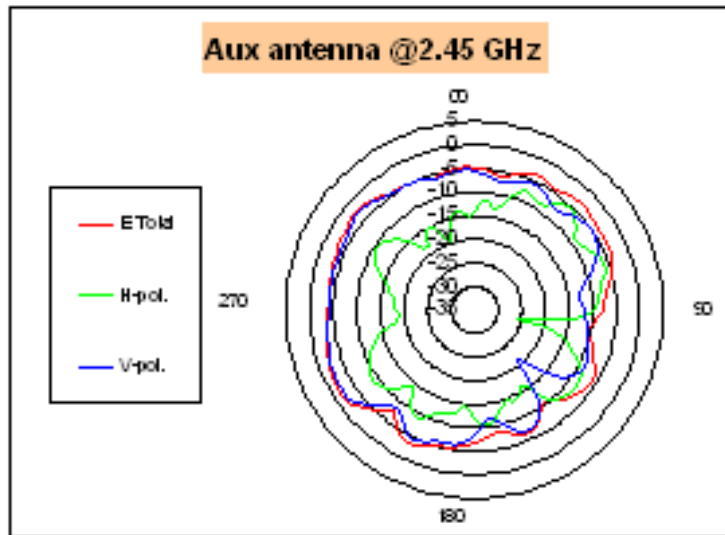


### Auxiliary antenna: 2400 MHz



	E Total	H-pol	V-pol
Peak Gain	-1.83	-3.98	-3.53

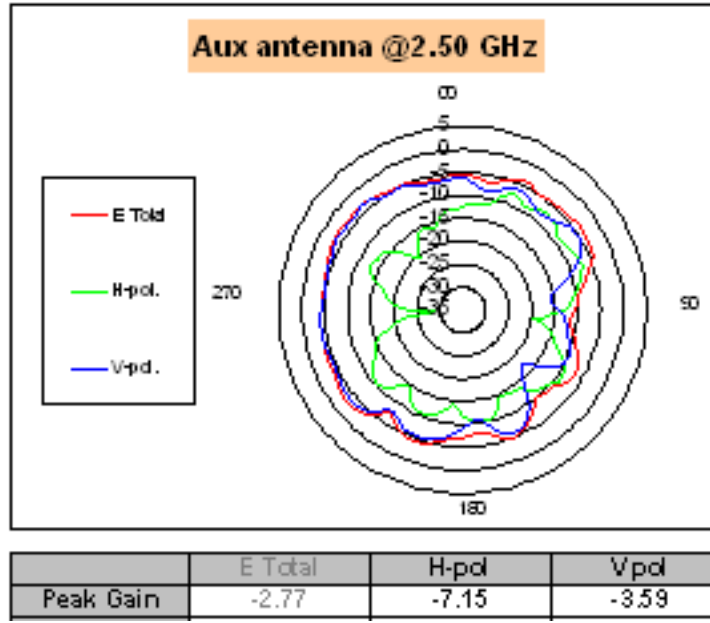
Auxiliary antenna: 2450 MHz



	E Total	H-pol	V pol
Peak Gain	-1.44	-5.50	-2.21

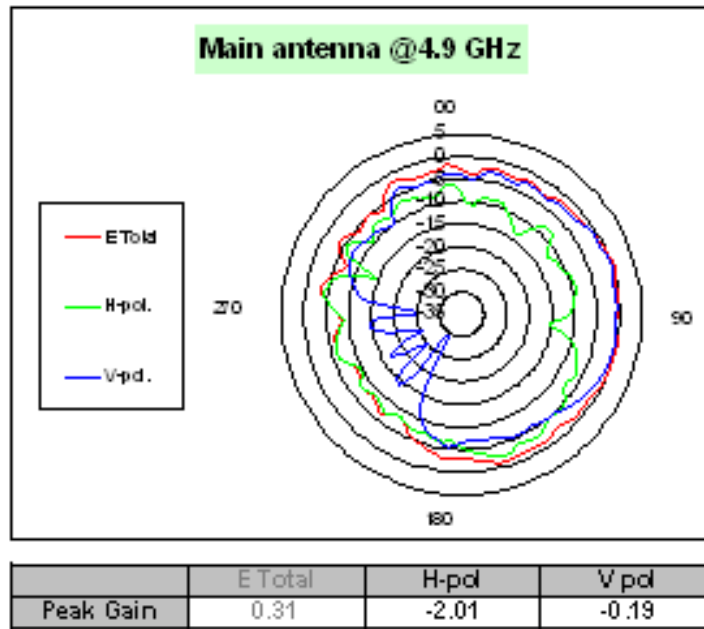


Auxiliary antenna: 2500 MHz

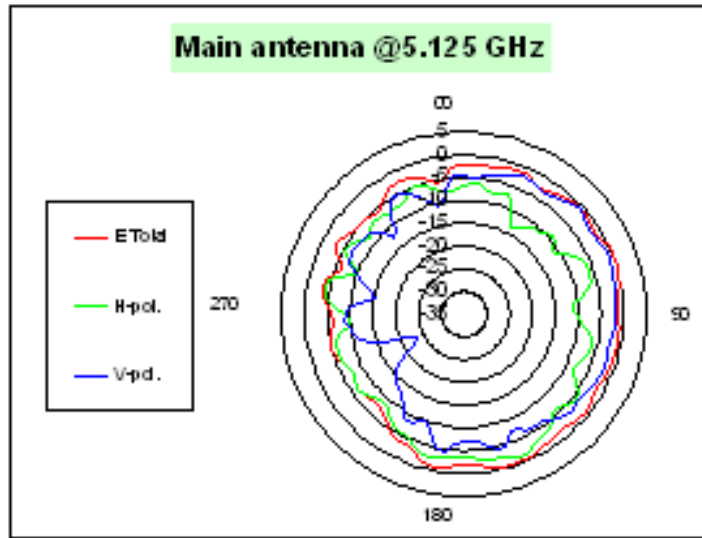


4900-5350 MHz radiation characteristic

Main antenna: 4900 MHz

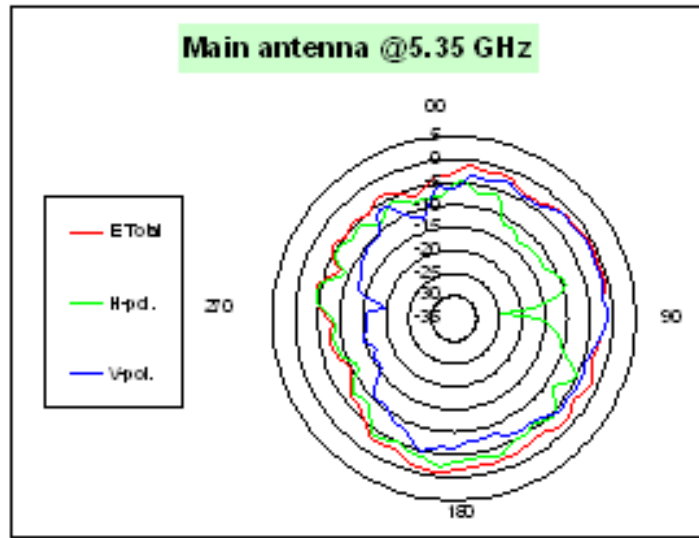


**Main antenna: 5125 MHz**



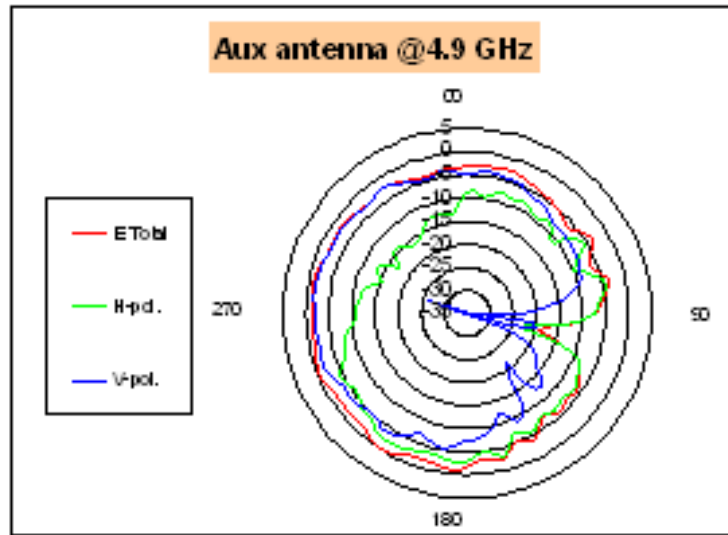
	E Total	H-pol	V-pol
Peak Gain	0.26	-13.3	-8.4

Main antenna: 5350 MHz



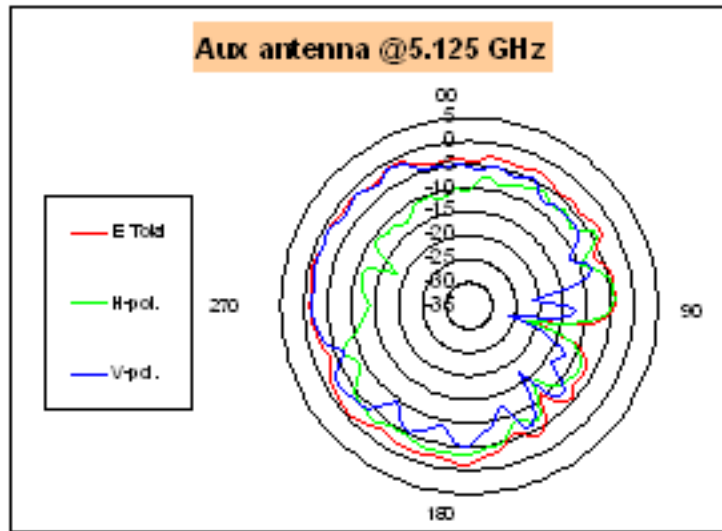
	E Total	H-pol	V-pol
Peak Gain	-0.78	-2.46	-1.11

**Auxiliary antenna: 4900 MHz**



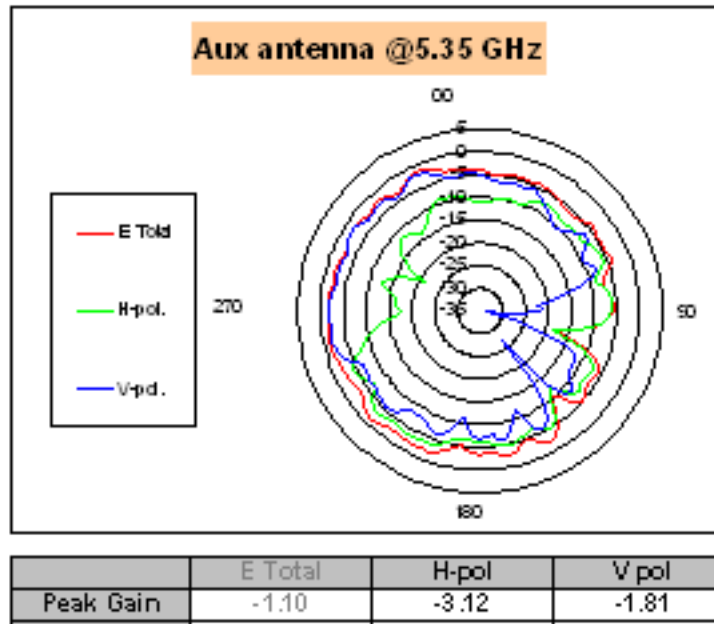
	E Total	H-pol	V-pol
Peak Gain	-0.04	-2.18	-1.46

**Auxiliary antenna: 5125 MHz**



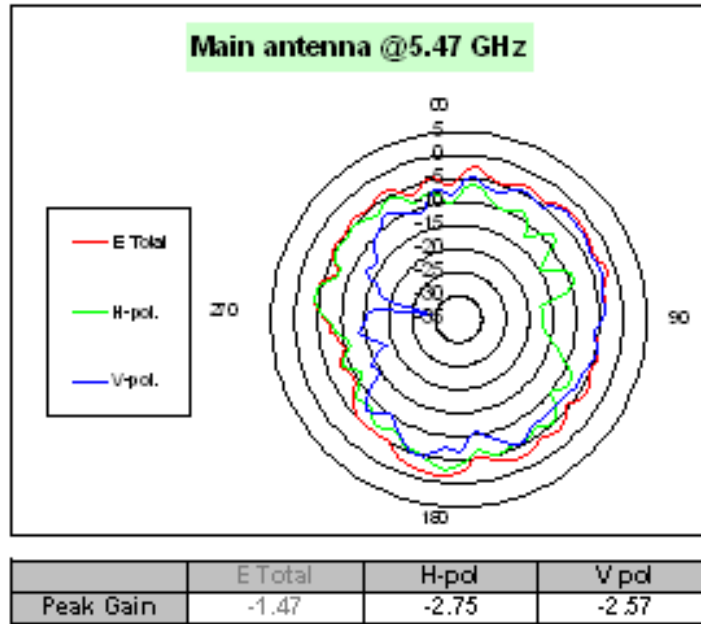
	E Total	H-pol	V pol
Peak Gain	-0.65	-3.00	-1.03

Auxiliary antenna: 5350 MHz



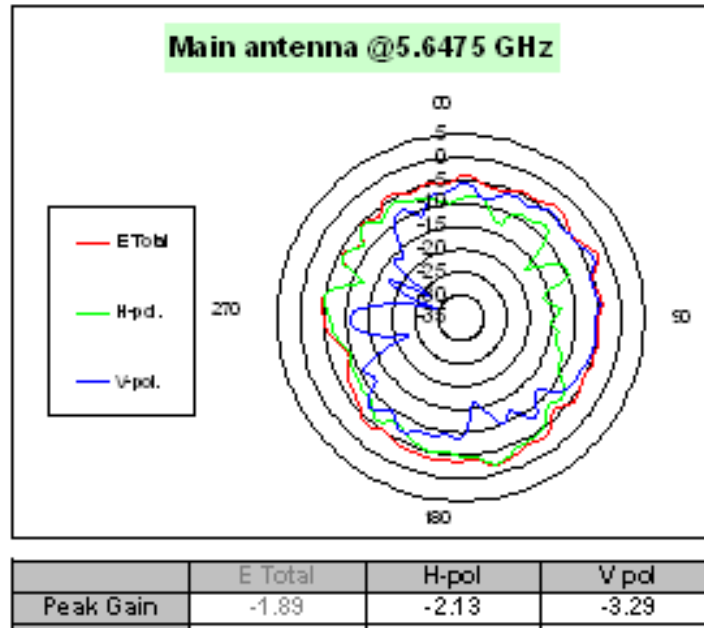
**5470-5725MHz radiation characteristic**

**Main antenna: 5470 MHz**

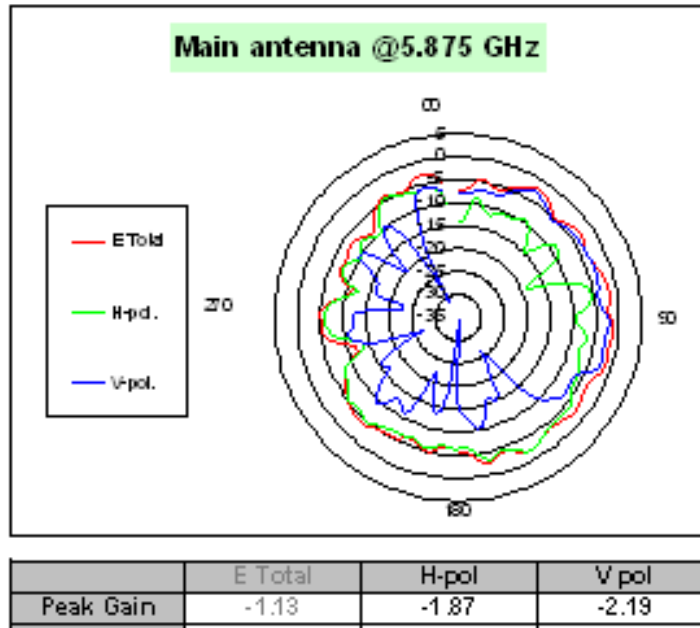




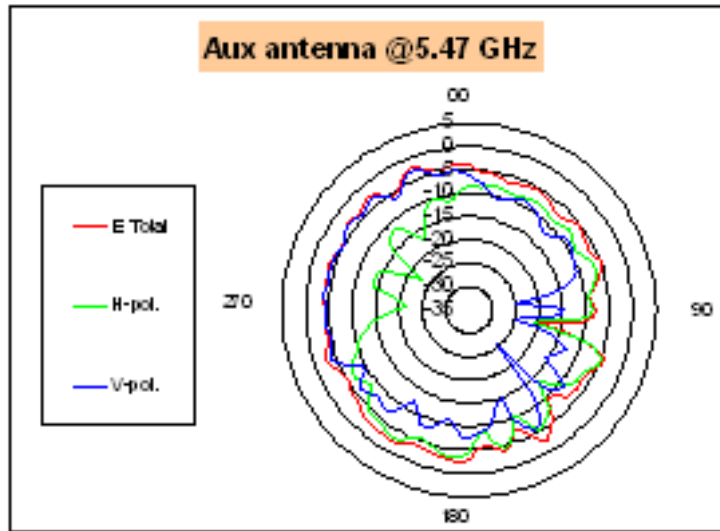
Main antenna: 5647.5 MHz



Main antenna: 5875 MHz

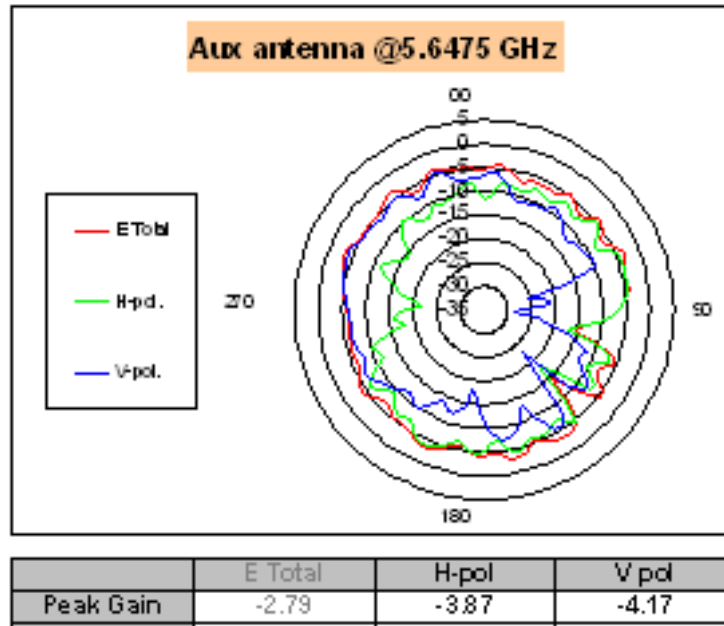


Auxiliary antenna: 5470 MHz

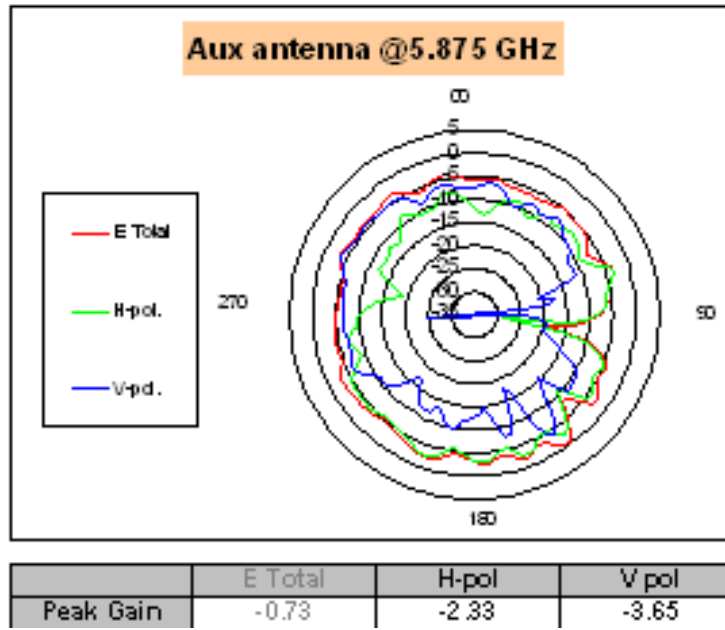


	E Total	H-pol	V-pol
Peak Gain	-2.27	-2.84	-2.92

Auxiliary antenna: 5647.5 MHz



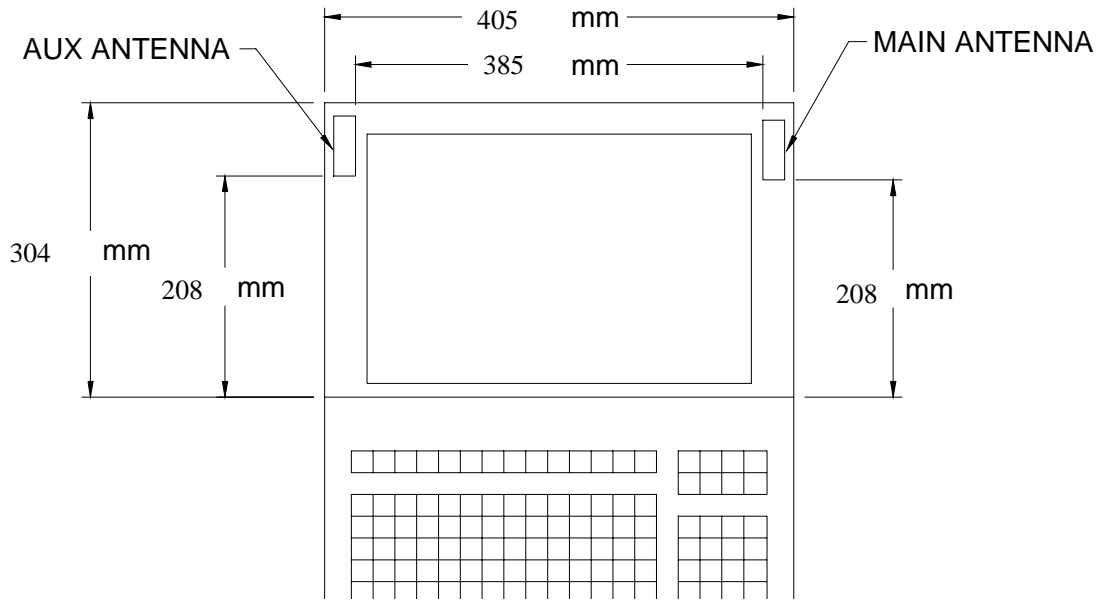
Auxiliary antenna: 5875 MHz



## Section 4. 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)

