

Regulatory Antenna Information

(English Required)

Tablet mode of LT20

Intel 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)
(P/N:HFT13-LG01-MAIN) Main antenna	Hitachi Cable	Film Antenna	50 ohm Coaxial. length: 380mm diameter: 1.0mm Connector: HRS	2400-2500MHz -0.34 dBi (peak)
				5150-5350MHz 0.78 dBi (peak)
				5470-5725MHz -0.15 dBi (peak)
				5725-5850MHz -1.92 dBi (peak)
(P/N: HFT13-LG01-AUX) Auxiliary antenna	Hitachi Cable	Film Antenna	50 ohm Coaxial. length: 400mm diameter: 1.0mm Connector: HRS	2400-2500MHz -2.05 dBi (peak)
				5150-5350MHz 2.48 dBi (peak)
				5470-5725MHz 2.55 dBi (peak)
				5725-5850MHz 2.22 dBi (peak)

Antenna overview: Peak Gain not including cable loss.

Antenna Designator	Manufacture	Antenna type	Peak Gain w/o Cable Loss (dBi)
(P/N:HFT13-LG01-MAIN) Main antenna	Hitachi Cable	Film Antenna	2400-2500MHz 0.72 dBi (peak)
			5150-5350MHz 2.34 dBi (peak)
			5470-5725MHz 1.41 dBi (peak)
			5725-5850MHz -0.36 dBi(peak)
(P/N: HFT13-LG01-AUX) Auxiliary antenna	Hitachi Cable	Film Antenna	2400-2500MHz -0.93 dBi (peak)
			5150-5350MHz 4.12 dBi (peak)
			5470-5725MHz 4.19 dBi (peak)
			5725-5850MHz 3.86 dBi (peak)

Cable assembly overview: Cable loss (including connector).

Designator	Manufacture	Cable type and length	VSWR	Cable Loss (dBi)
(P/N: XXXXXXXX) For use with the Main antenna	Hitachi Cable	50 ohm Coaxial. length: 380mm diameter: 1.0mm Connector: HRS	2400-2500MHz 1.70 max	2400-2500MHz 1.06 dBi (peak)
			5150-5350MHz 1.50 max	5150-5350MHz 1.56 dBi (peak)
			5470-5725MHz 1.50 max	5470-5725MHz 1.56 dBi (peak)
			5725-5850MHz 1.50 max	5725-5850MHz 1.56 dBi (peak)
(P/N: XXXXXXXXXX) For use with the Auxiliary antenna	Hitachi Cable	50 ohm Coaxial. length: 400mm diameter: 1.0mm Connector: HRS	2400-2500MHz 1.70 max	2400-2500MHz 1.12 dBi (peak)
			5150-5350MHz 1.50 max	5150-5350MHz 1.64 dBi (peak)
			5470-5725MHz 1.50 max	5470-5725MHz 1.64 dBi (peak)
			5725-5850MHz 1.50 max	5725-5850MHz 1.64 dBi (peak)

NOTE:

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

Figure 1 is a technical drawing illustrating the soldering method of the cable. It shows a cable assembly with a label that reads "HFT13-GL01-M Hitachi Cable Lot, No". The drawing includes dimensions: a length of 380 ± 7 and a distance of 8.5 from the end of the cable to the soldering point. A callout "Soldering" points to the connection point. Other callouts include "3" pointing to the cable jacket, "4" pointing to the cable braid, and "5" pointing to the label area. The diagram also shows a cross-section of the cable with a central conductor and a surrounding insulation layer.

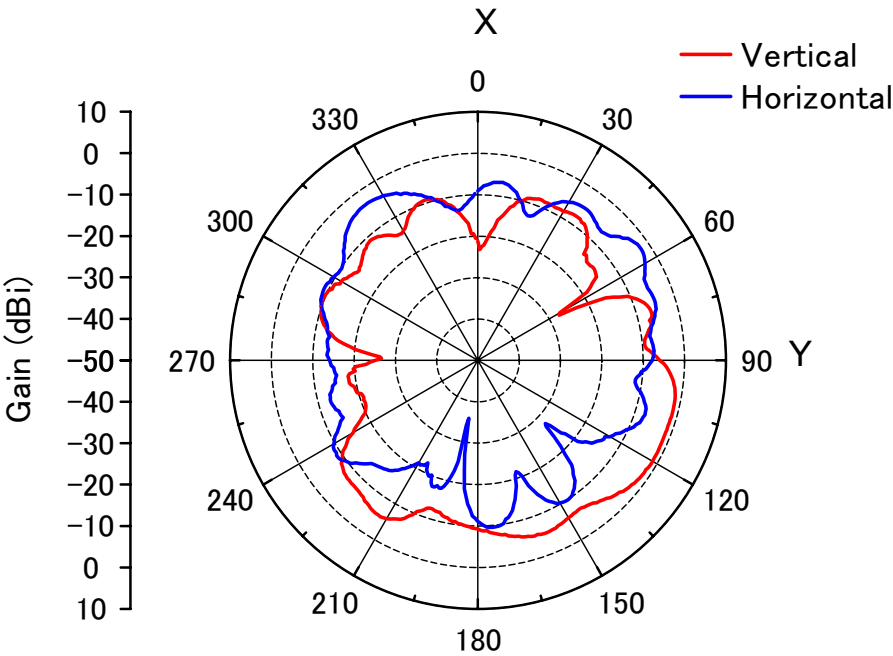
Figure 1 is a technical drawing showing the dimensions of the cable assembly. The drawing includes a cross-section of the cable and a side view. Key dimensions and labels are as follows:

- 8.5**: Dimension for the width of the cable body.
- 400±7**: Dimension for the length of the cable body.
- (1)**: Dimension for the thickness of the cable jacket.
- (1)**: Dimension for the thickness of the cable jacket (indicated in two locations).
- Soldering**: Label indicating the soldering process.
- HFT13-GL01-A Hitachi Cable Lot, No**: Label indicating the cable type and lot number.
- 3**: Circled number indicating a specific component or feature.
- 4**: Circled number indicating a specific component or feature.
- 5**: Circled number indicating a specific component or feature.

Radiation characteristic of antennae
Loaded (In Host System)

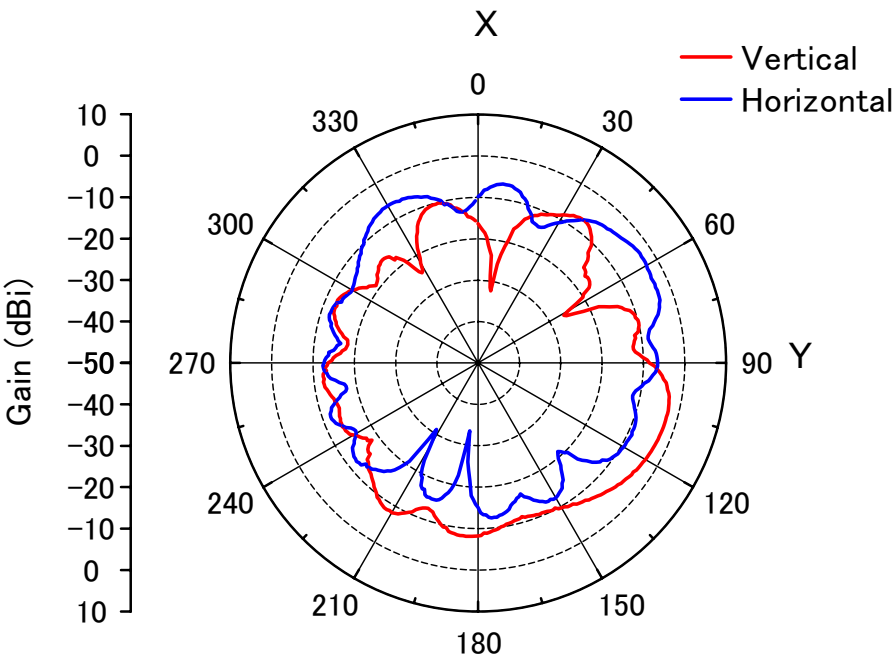
2400-2500MHz radiation characteristic

Main antenna: 2400 MHz



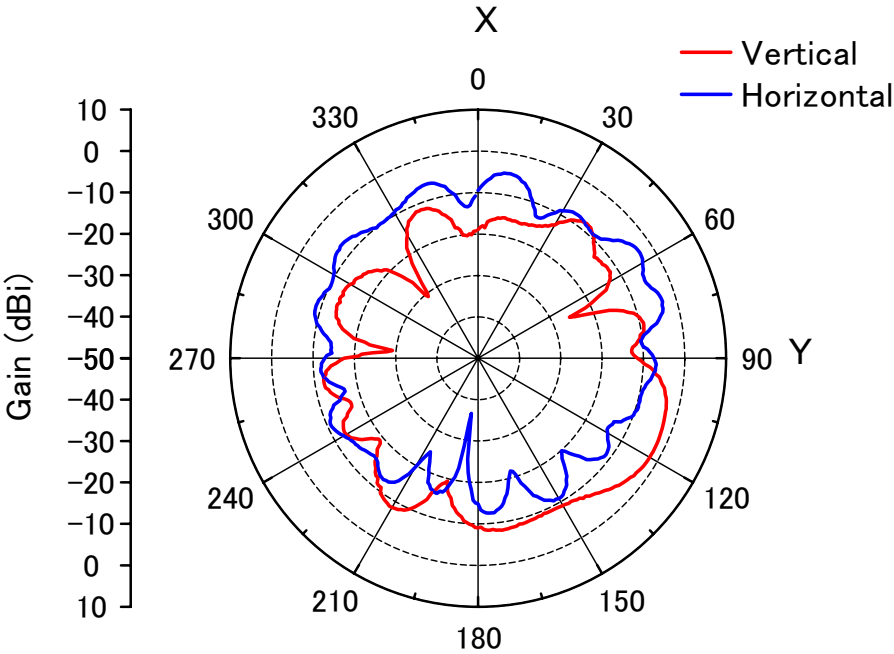
Center Frequency	2400 MHz
Horizontal (dBi) peak	-2.25
Vertical (dBi) peak	-1.21
Horz+Vert (dBi) peak	X.XX

Main antenna: 2450 MHz



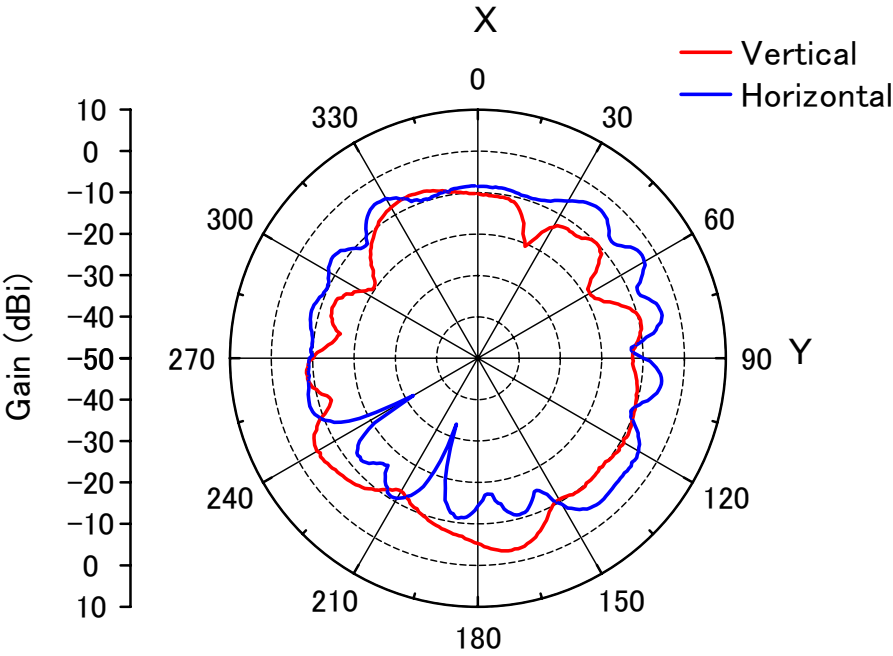
Center Frequency	2450 MHz
Horizontal (dBi) peak	-2.75
Vertical (dBi) peak	-2.55
Horz+Vert (dBi) peak	X.XX

Main antenna: 2500 MHz



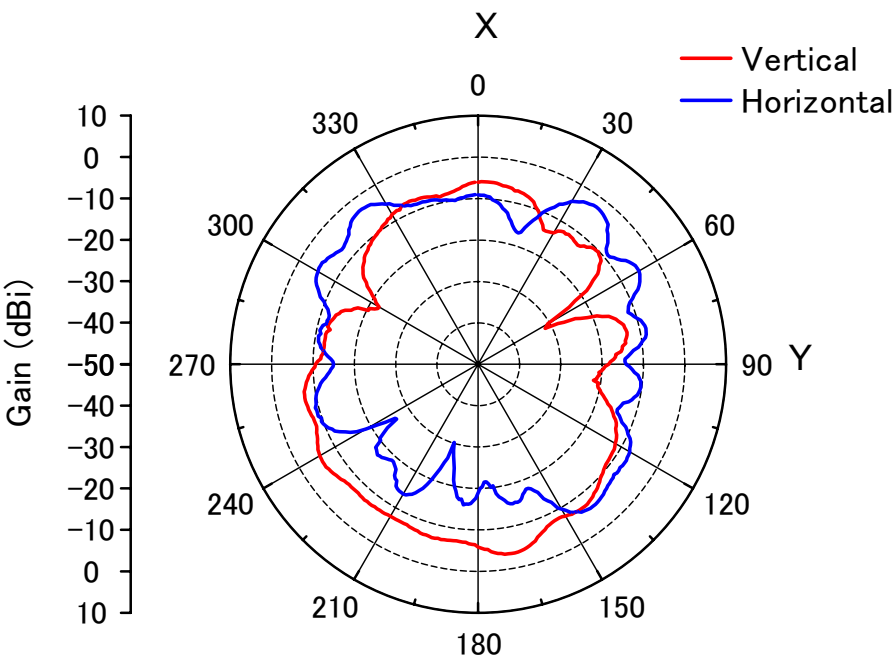
Center Frequency	2500 MHz
Horizontal (dBi) peak	-3.32
Vertical (dBi) peak	-2.01
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 2400 MHz



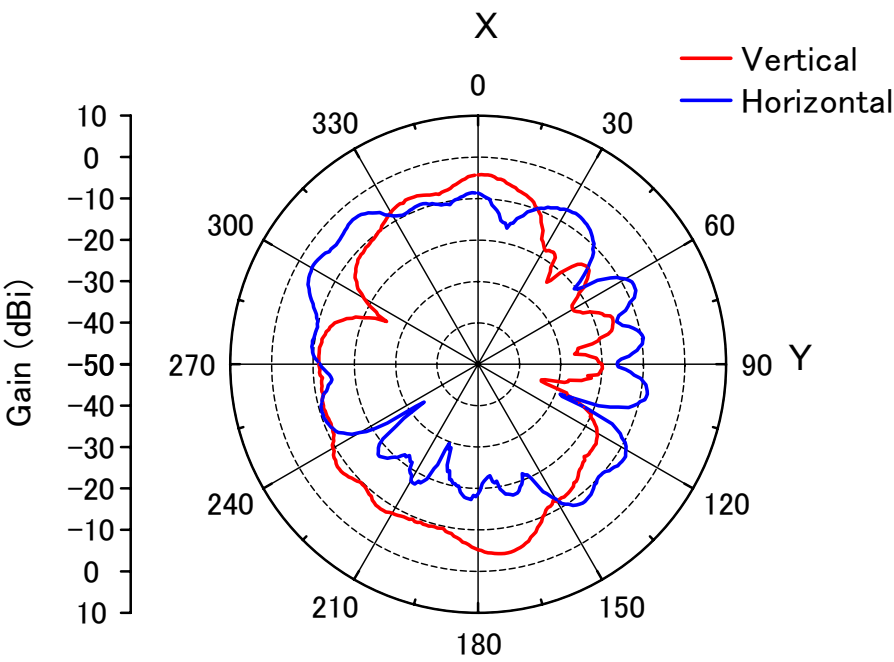
Center Frequency	2400 MHz
Horizontal (dBi) peak	-3.14
Vertical (dBi) peak	-2.90
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 2450 MHz



Center Frequency	2450 MHz
Horizontal (dBi) peak	-2.51
Vertical (dBi) peak	-3.60
Horz+Vert (dBi) peak	X.XX

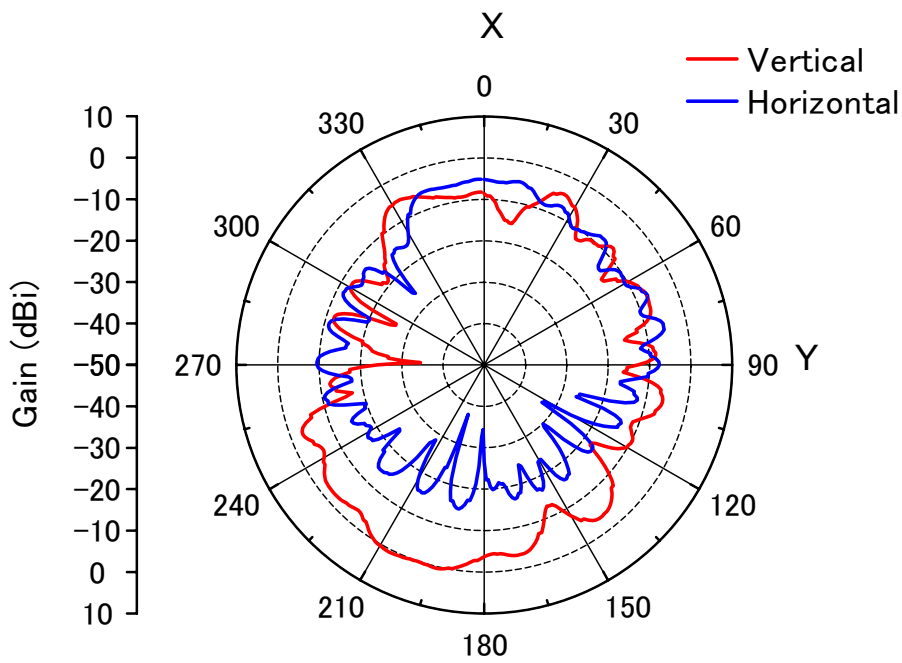
Auxiliary antenna: 2500 MHz



Center Frequency	2500 MHz
Horizontal (dBi) peak	-3.32
Vertical (dBi) peak	-2.01
Horz+Vert (dBi) peak	X.XX

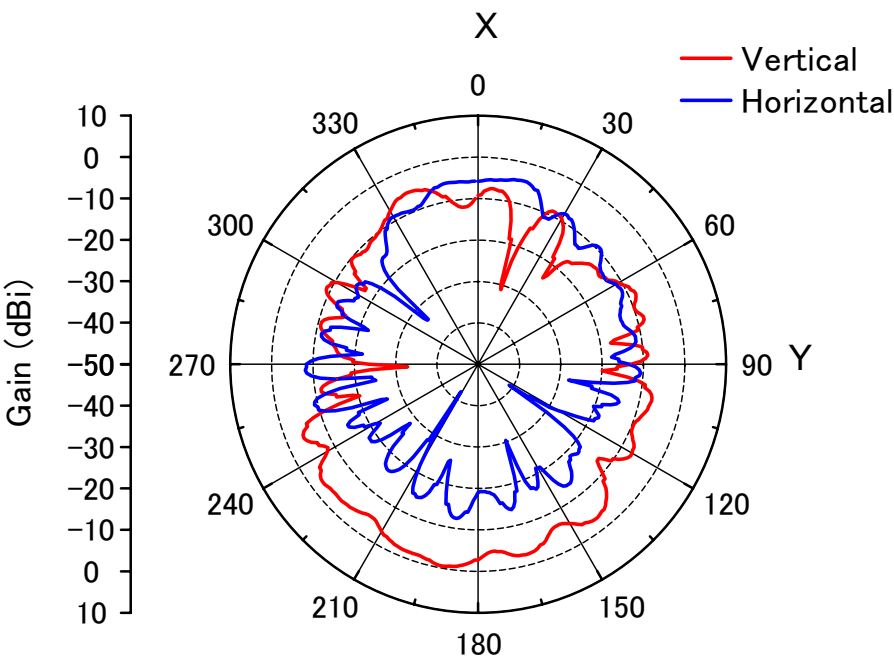
5150-5135 MHz radiation characteristic

Main antenna: 5150 MHz



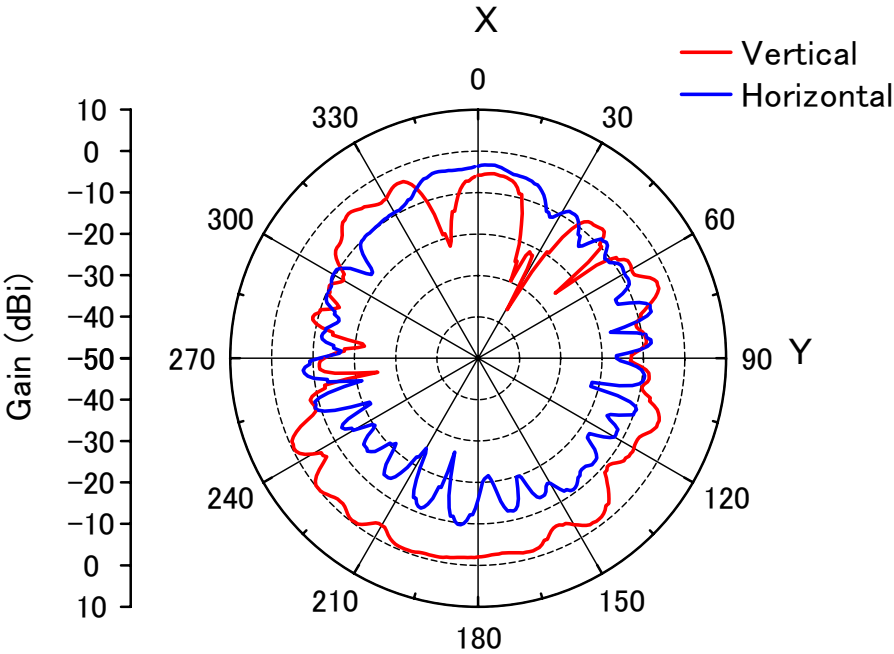
Center Frequency	5150 MHz
Horizontal (dBi) peak	-4.98
Vertical (dBi) peak	0.69
Horz+Vert (dBi) peak	X.XX

Main antenna: 5250 MHz



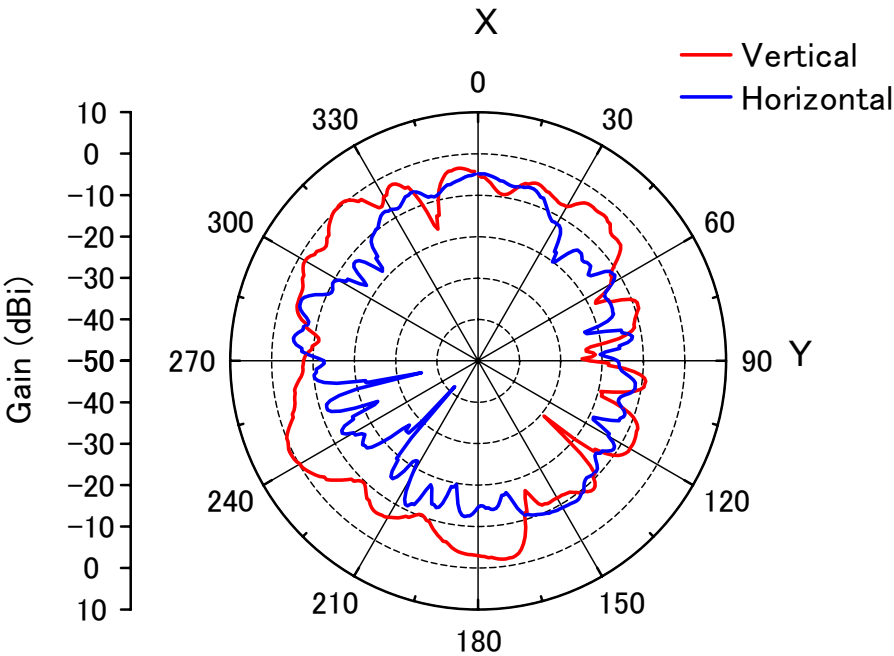
Center Frequency	5250 MHz
Horizontal (dBi) peak	-4.44
Vertical (dBi) peak	-0.51
Horz+Vert (dBi) peak	X.XX

Main antenna: 5350 MHz



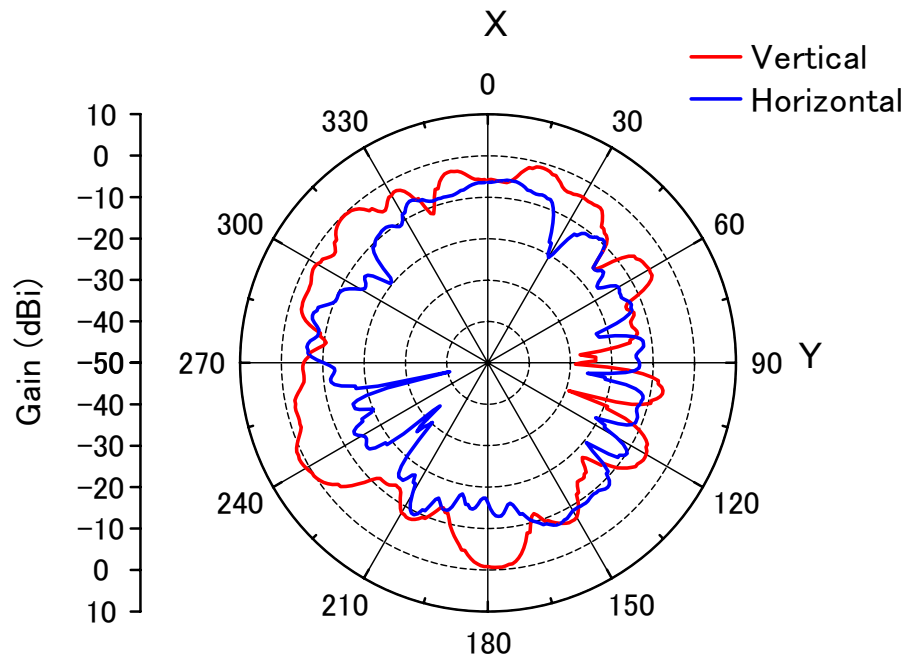
Center Frequency	5350 MHz
Horizontal (dBi) peak	-3.28
Vertical (dBi) peak	-0.18
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 5150 MHz



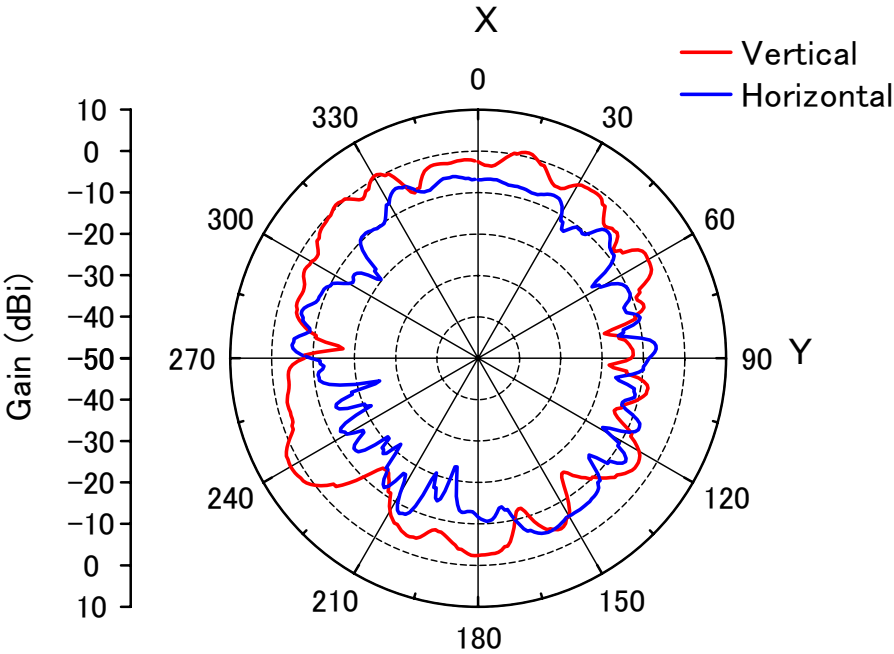
Center Frequency	5150 MHz
Horizontal (dBi) peak	-4.80
Vertical (dBi) peak	0.59
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 5250 MHz



Center Frequency	5250 MHz
Horizontal (dBi) peak	-5.72
Vertical (dBi) peak	1.21
Horz+Vert (dBi) peak	X.XX

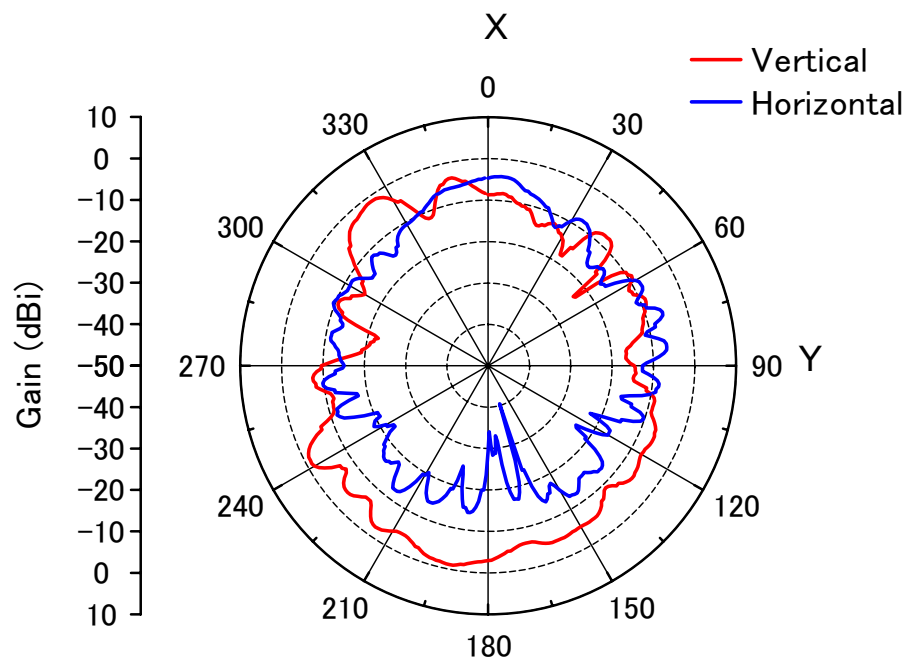
Auxiliary antenna: 5350 MHz



Center Frequency	5350 MHz
Horizontal (dBi) peak	-3.28
Vertical (dBi) peak	-0.18
Horz+Vert (dBi) peak	X.XX

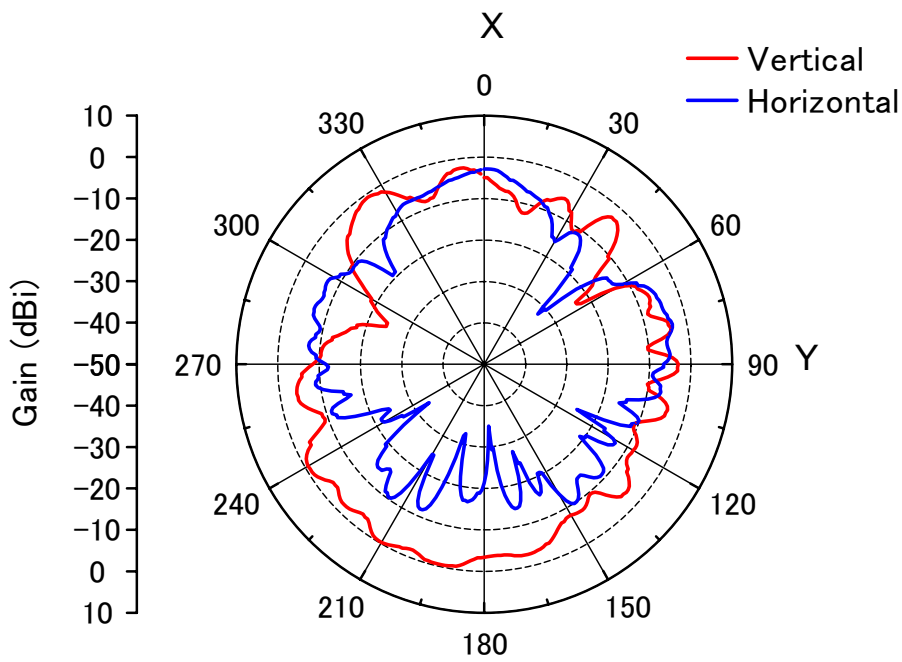
5470-5725MHz radiation characteristic

Main antenna: 5470 MHz



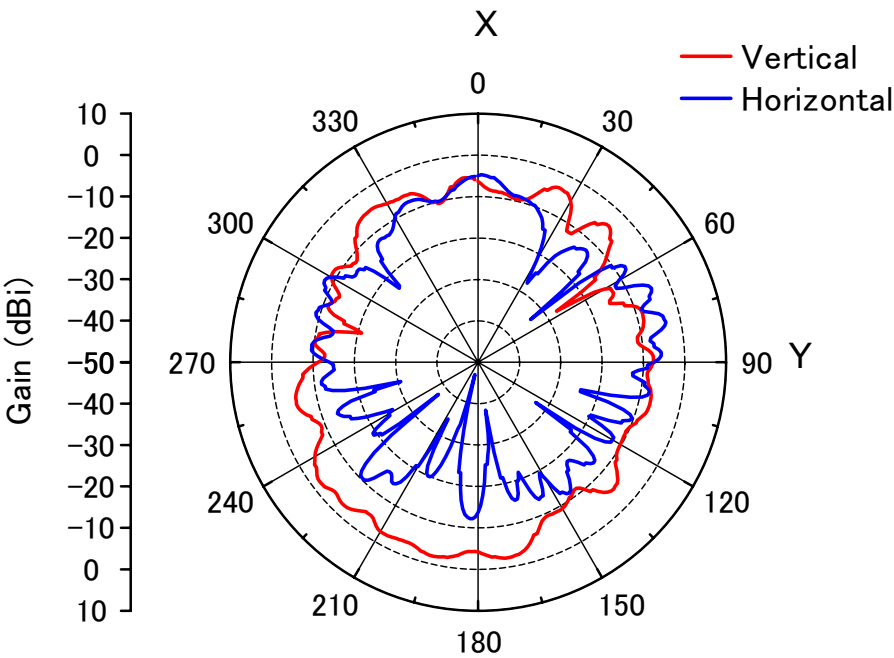
Center Frequency	5470 MHz
Horizontal (dBi) peak	-4.29
Vertical (dBi) peak	-1.09
Horz+Vert (dBi) peak	X.XX

Main antenna: 5597.5 MHz



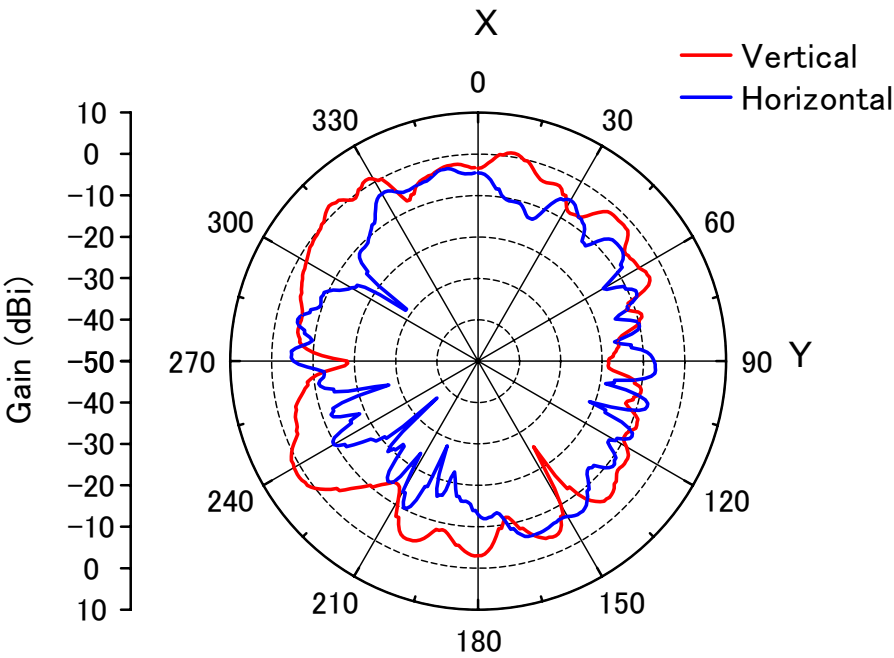
Center Frequency	5597.5 MHz
Horizontal (dBi) peak	-2.89
Vertical (dBi) peak	-0.34
Horz+Vert (dBi) peak	X.XX

Main antenna: 5725 MHz



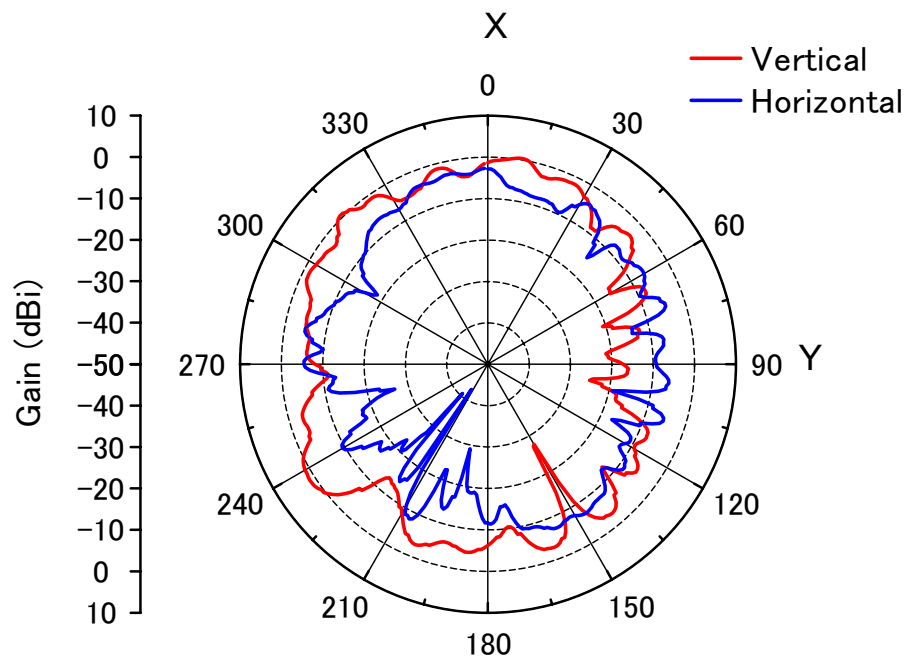
Center Frequency	5725 MHz
Horizontal (dBi) peak	-3.59
Vertical (dBi) peak	-1.92
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 5470 MHz



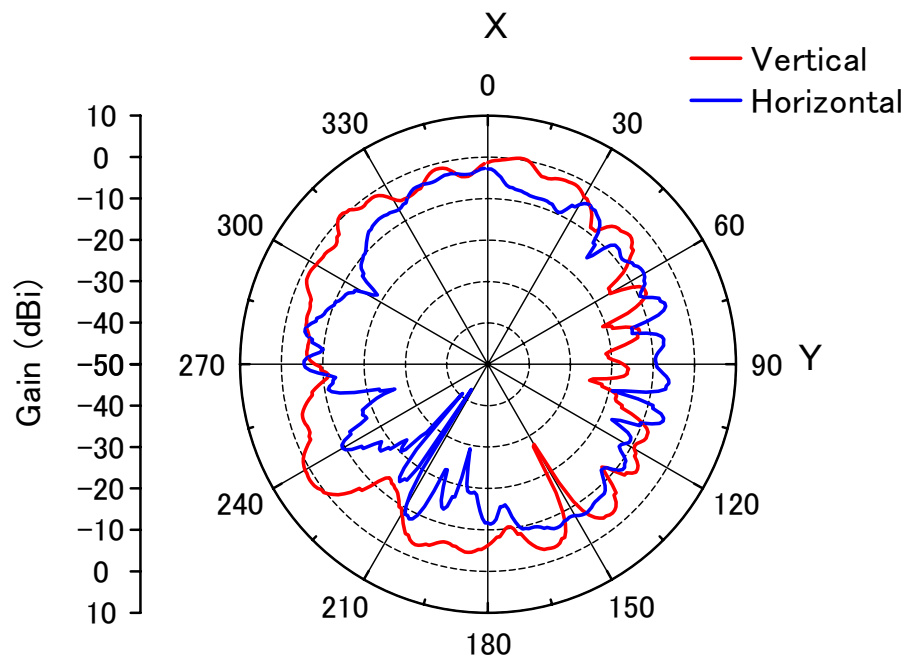
Center Frequency	5470 MHz
Horizontal (dBi) peak	-2.99
Vertical (dBi) peak	1.95
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 5597.5 MHz



Center Frequency	5597.5 MHz
Horizontal (dBi) peak	-2.73
Vertical (dBi) peak	1.34
Horz+Vert (dBi) peak	1.34

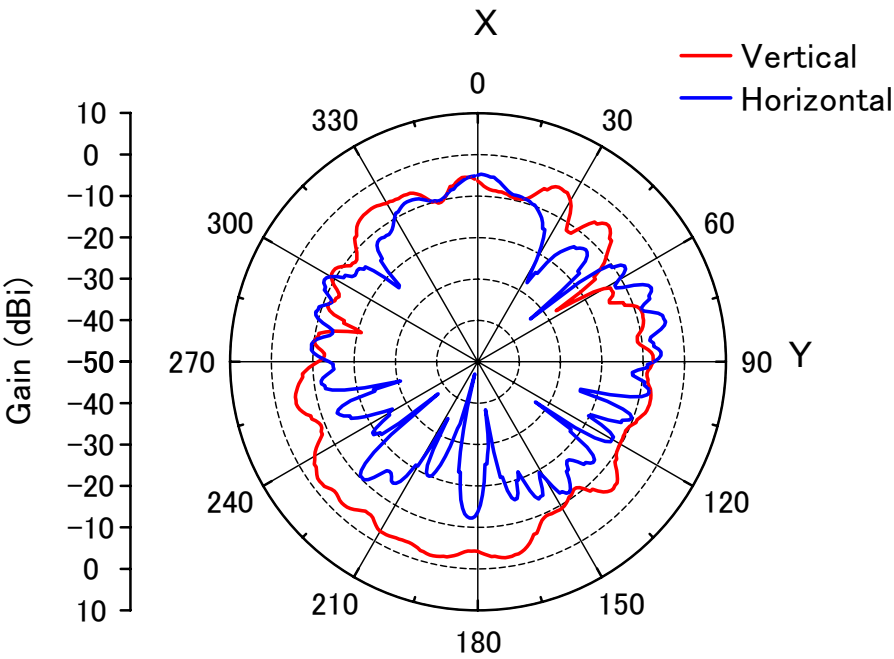
Auxiliary antenna: 5725 MHz



Center Frequency	5725 MHz
Horizontal (dBi) peak	-2.73
Vertical (dBi) peak	0.83
Horz+Vert (dBi) peak	X.XX

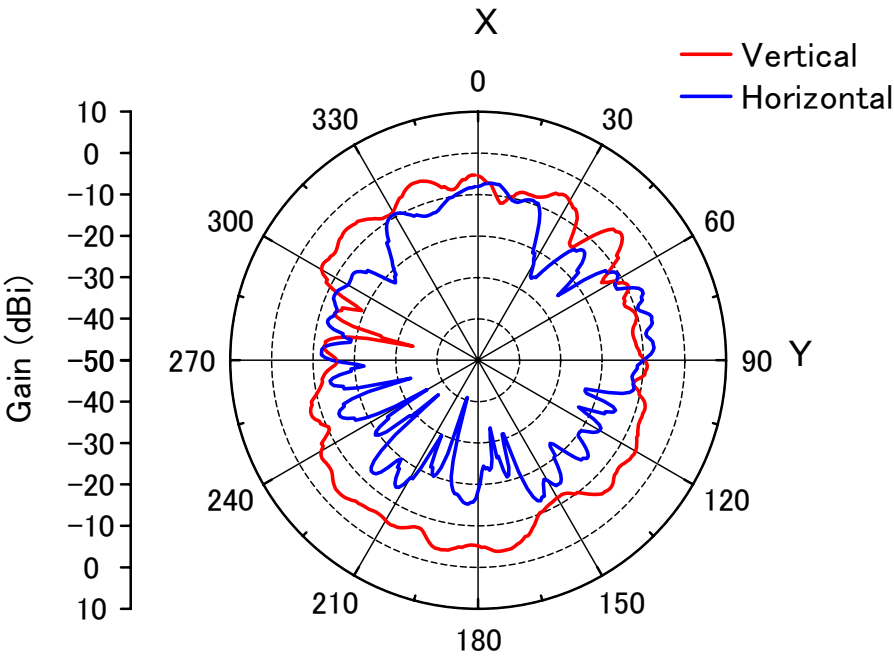
5725-5850 MHz radiation characteristic

Main antenna: 5725 MHz



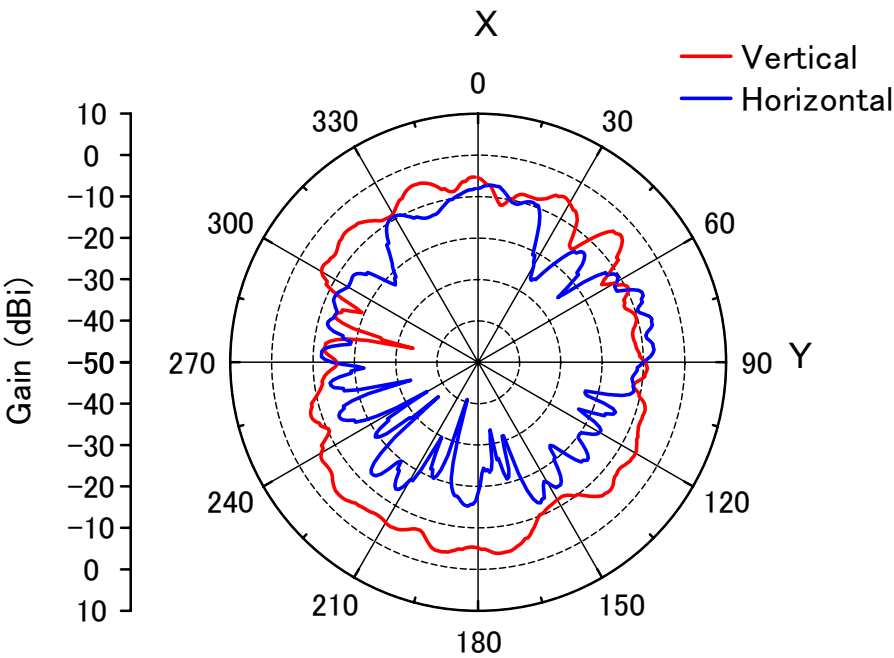
Center Frequency	5725 MHz
Horizontal (dBi) peak	-3.59
Vertical (dBi) peak	-1.92
Horz+Vert (dBi) peak	X.XX

Main antenna: 5785 MHz



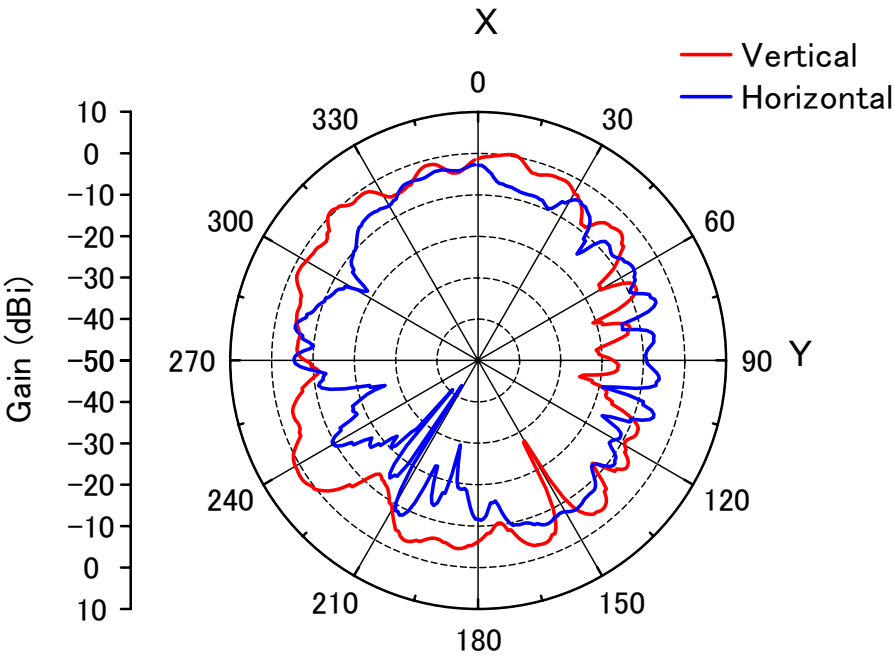
Center Frequency	5785 MHz
Horizontal (dBi) peak	-6.70
Vertical (dBi) peak	-3.39
Horz+Vert (dBi) peak	X.XX

Main antenna: 5850 MHz



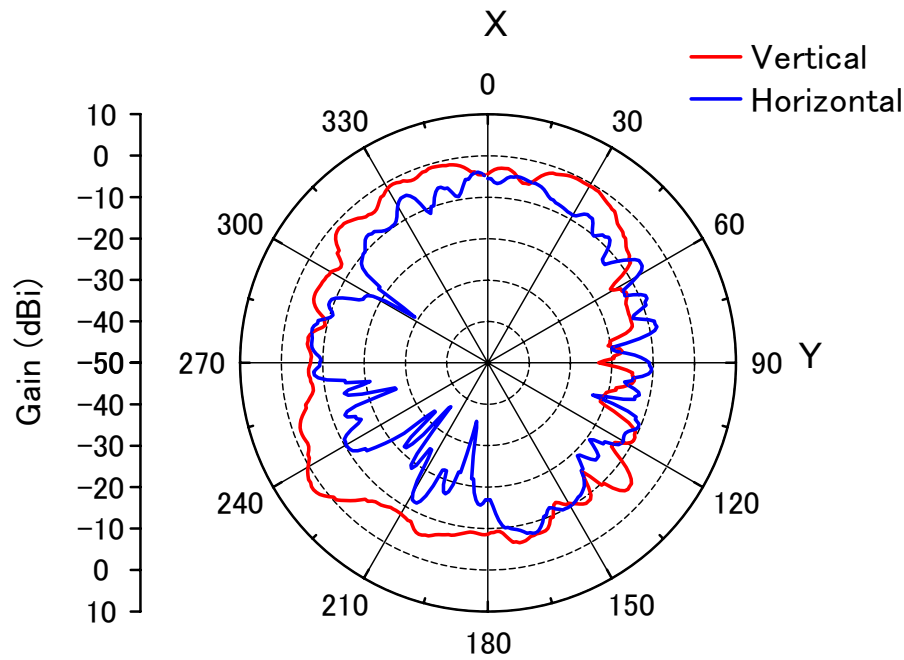
Center Frequency	5850 MHz
Horizontal (dBi) peak	-6.70
Vertical (dBi) peak	-3.39
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 5725 MHz



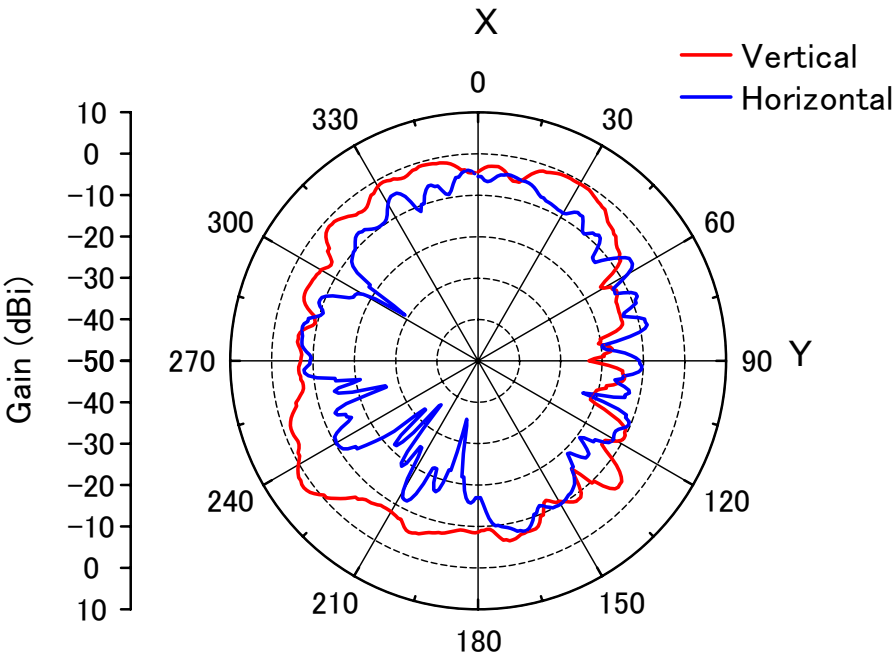
Center Frequency	5725 MHz
Horizontal (dBi) peak	-2.73
Vertical (dBi) peak	0.83
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 5785 MHz



Center Frequency	5785 MHz
Horizontal (dBi) peak	-3.94
Vertical (dBi) peak	2.11
Horz+Vert (dBi) peak	X.XX

Auxiliary antenna: 5850 MHz



Center Frequency	5850 MHz
Horizontal (dBi) peak	-3.94
Vertical (dBi) peak	2.11
Horz+Vert (dBi) peak	X.XX

Host PC Information

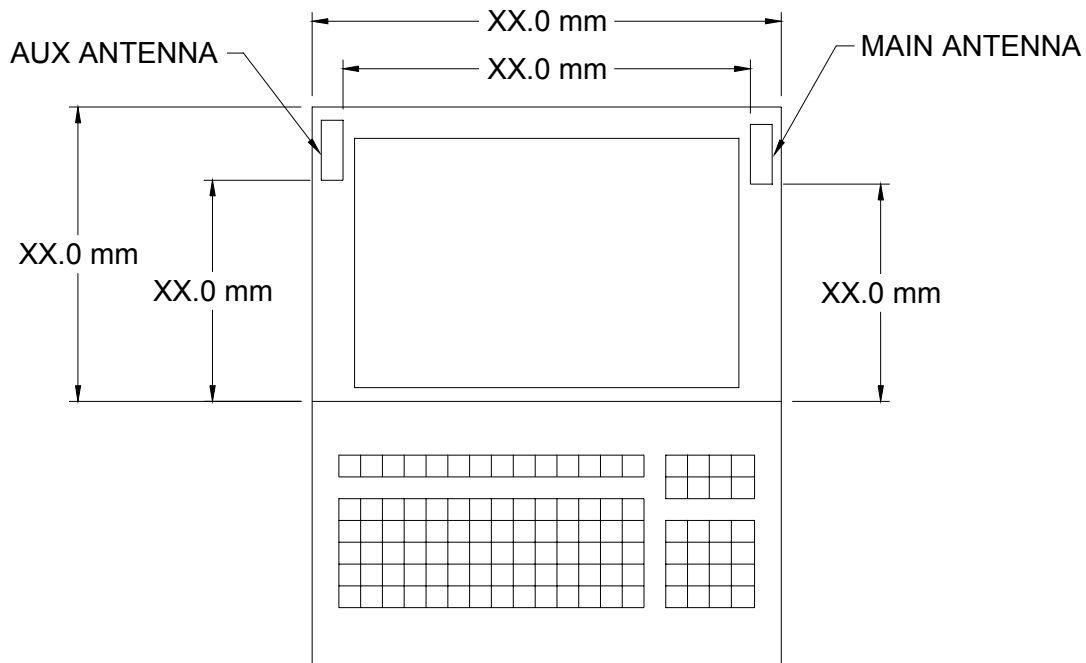
Host model: Tablet PC (Project and Model Name: K2CA)

Please insert dimensioned photos or dimensioned drawings of aux and main antenna placements.

Antenna location: Top of the LCD of K2

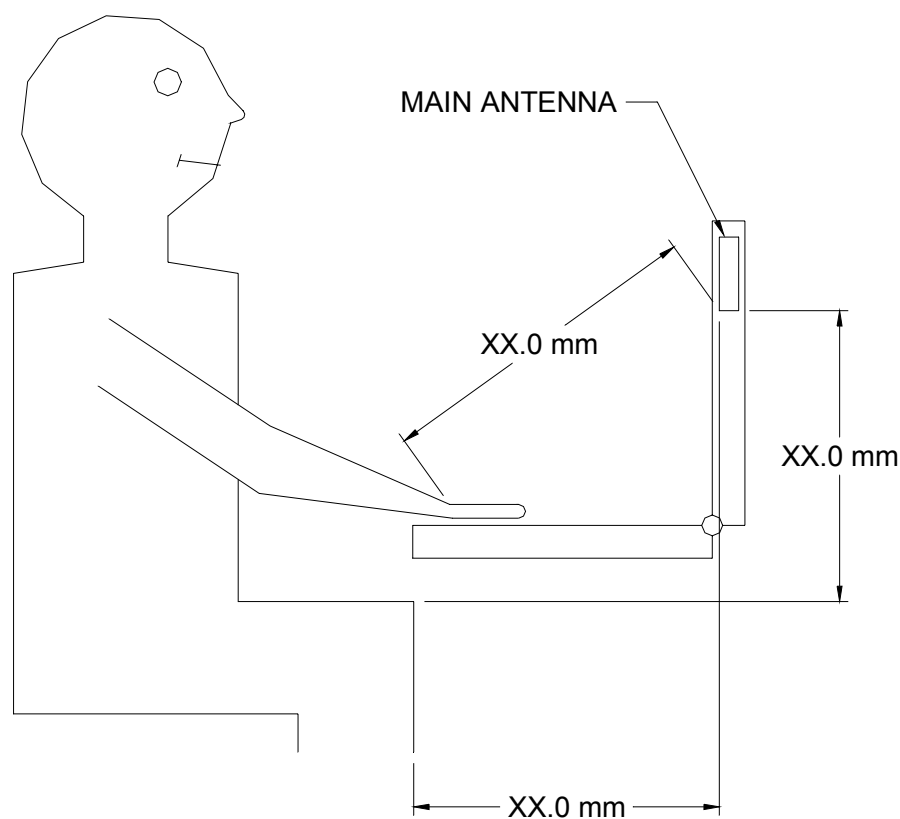
Antennas: Main =Right, Aux =Left, BT =Middle

Photographs of the antenna location in the K2





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



APPENDIX I

Intel's Antenna review process:

1. Regulatory Program Manager receives OEM antenna information.
2. Regulatory Program Manager will arrange an, Antenna information review. Provide feedback and request information not provided.
3. Then assign the OEMs a time line.
4. Check for the following below:
 - VSWR
 - Main & Aux antenna (Peak Gain W/ cable loss)
 - Main & Aux antenna (Peak Gain only)
 - Main & Aux antenna (Cable loss W/ connector)
 - Mechanical Drawings of Main & Aux. antenna
 - Radiation Characteristic of antenna Loaded (In a host system)
 - Max allowable input power
 - Manufacturer Name
 - Manufacturer Type

The information above is what this document is!

INTEL OEM / ODM, ANTENNA REGULATORY INFORMATION CHECKLIST

Description of Information Received	Received	Date
VSWR of cable including connector		
Main & Aux antenna (Peak Gain W/ cable loss)		
Main & Aux antenna (Peak Gain only)		
Main & Aux antenna (Cable loss W/ connector)		
Mechanical Drawings of Main & Aux. antenna		
Radiation Characteristic of antenna Loaded (In a host system)		
Max allowable input power		
Designator / Part number of antenna assembly		
Designator for Antenna only		
Manufacturer Name		
Manufacturer Type		