

Regulatory WLAN Antenna Information HTL017

Toshiba Corporation

Antenna Information Example

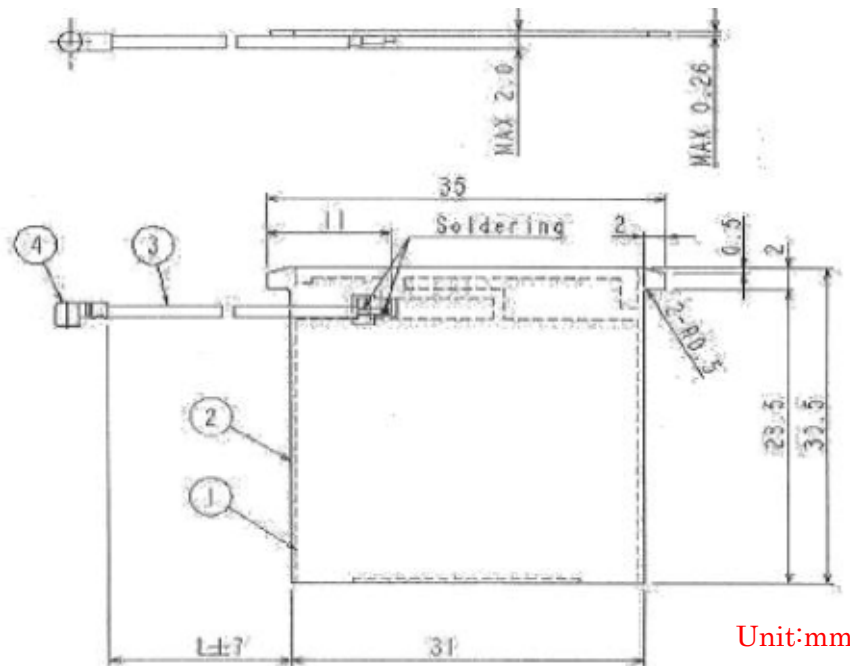
Section 1. Antenna Assembly Specifications

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)
HTL017	Hitachi Cable, Ltd.	2.4GHz:PIFA 5GHz:PIFA	P/N: HTL017-C334 50 ohm Coaxial. length: 715mm diameter: 1.0mm Connector: U.FL	2400-2500MHz 2.2 dBi (peak)	2400-2500MHz 4.24 dBi (peak)	2400-2500MHz 1.51 max	2400-2500MHz 2.04 dBi (peak)
				5150-5350MHz 1.2 dBi (peak)	5150-5350MHz 4.17 dBi (peak)	5150-5350MHz 1.41 max	5150-5350MHz 2.97 dBi (peak)
				5470-5725MHz 1.8 dBi (peak)	5470-5725MHz 4.86 dBi (peak)	5470-5725MHz 1.45 max	5470-5725MHz 3.06 dBi (peak)
				5725-5850MHz 1.0 dBi (peak)	5725-5850MHz 4.12 dBi (peak)	5725-5850MHz 1.48 max	5725-5850MHz 3.12 dBi (peak)
HTL017	Hitachi Cable, Ltd.	2.4GHz:PIFA 5GHz:PIFA	P/N: HTL017-C334 50 ohm Coaxial. length: 838mm diameter: 1.0mm Connector: U.FL	2400-2500MHz -1.5 dBi (peak)	2400-2500MHz 0.89 dBi (peak)	2400-2500MHz 1.72 max	2400-2500MHz 2.39 dBi (peak)
				5150-5350MHz -0.5 dBi (peak)	5150-5350MHz 3.98 dBi (peak)	5150-5350MHz 1.41 max	5150-5350MHz 3.48 dBi (peak)
				5470-5725MHz 0.0 dBi (peak)	5470-5725MHz 3.59 dBi (peak)	5470-5725MHz 1.33 max	5470-5725MHz 3.59 dBi (peak)
				5725-5850MHz -1.2 dBi (peak)	5725-5850MHz 2.45 dBi (peak)	5725-5850MHz 1.40 max	5725-5850MHz 3.65 dBi (peak)

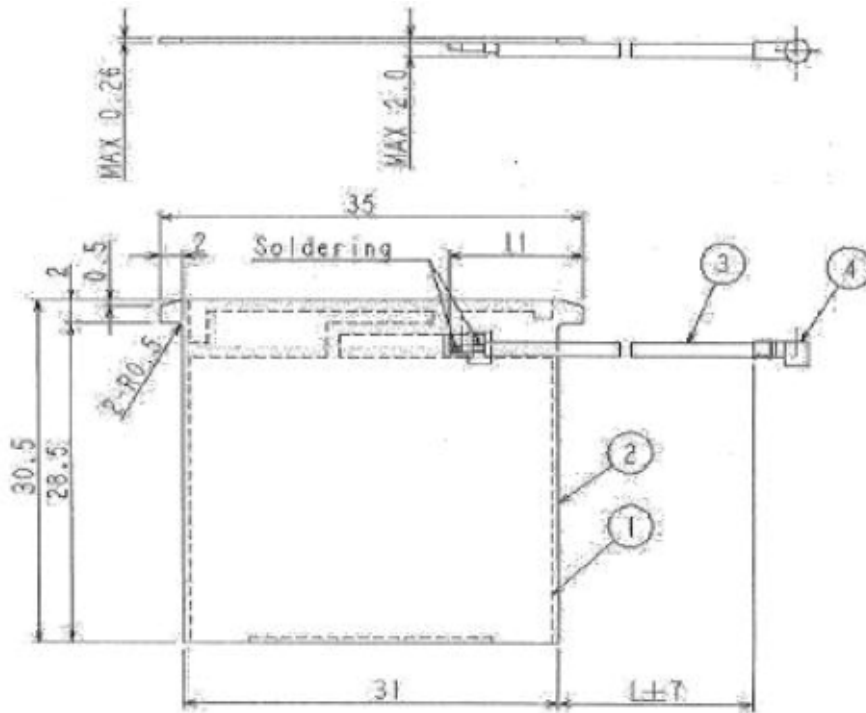
Section 2. Dimensioned Photos or Drawings of Antennas

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



No.	Description
①	Conductor
②	Insulating Film
③	Co-axial Cable
④	Connector

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



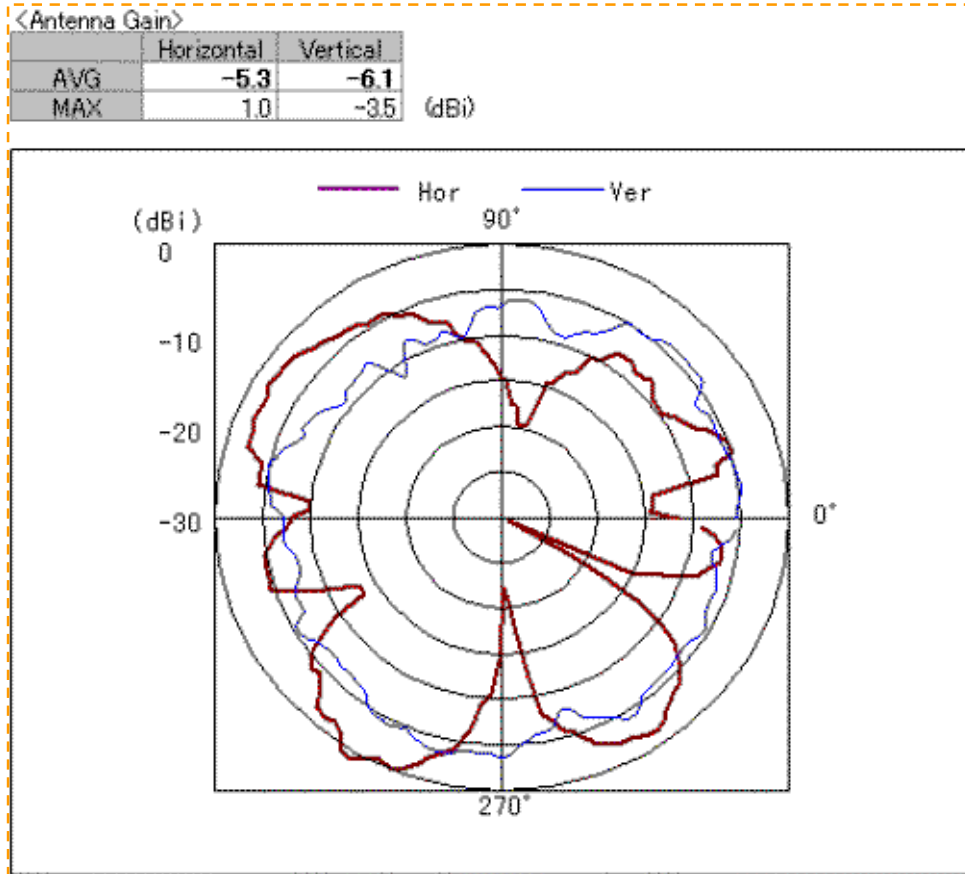
Unit:mm

No.	Description:
①	Conductor
②	Insulating Film
③	Co-axial Cable
④	Connector

Section 3. Radiation characteristics of antennae Loaded in Host Platform

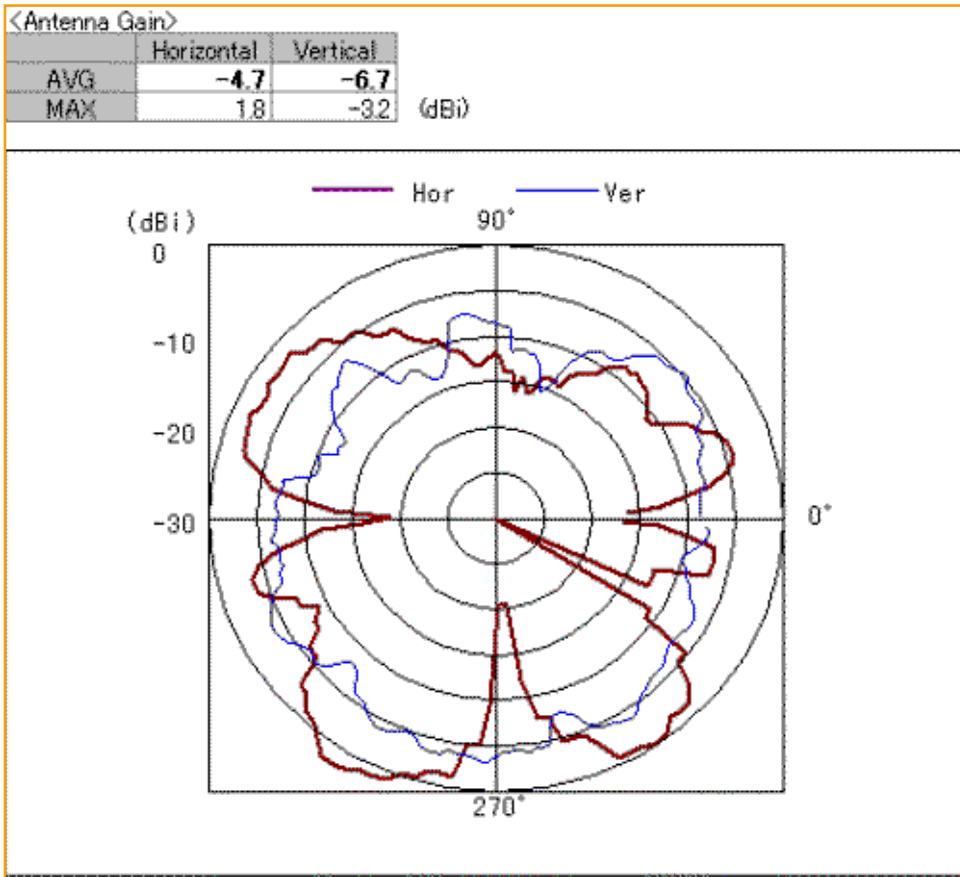
2400-2500MHz radiation characteristic

Main antenna: 2400 MHz



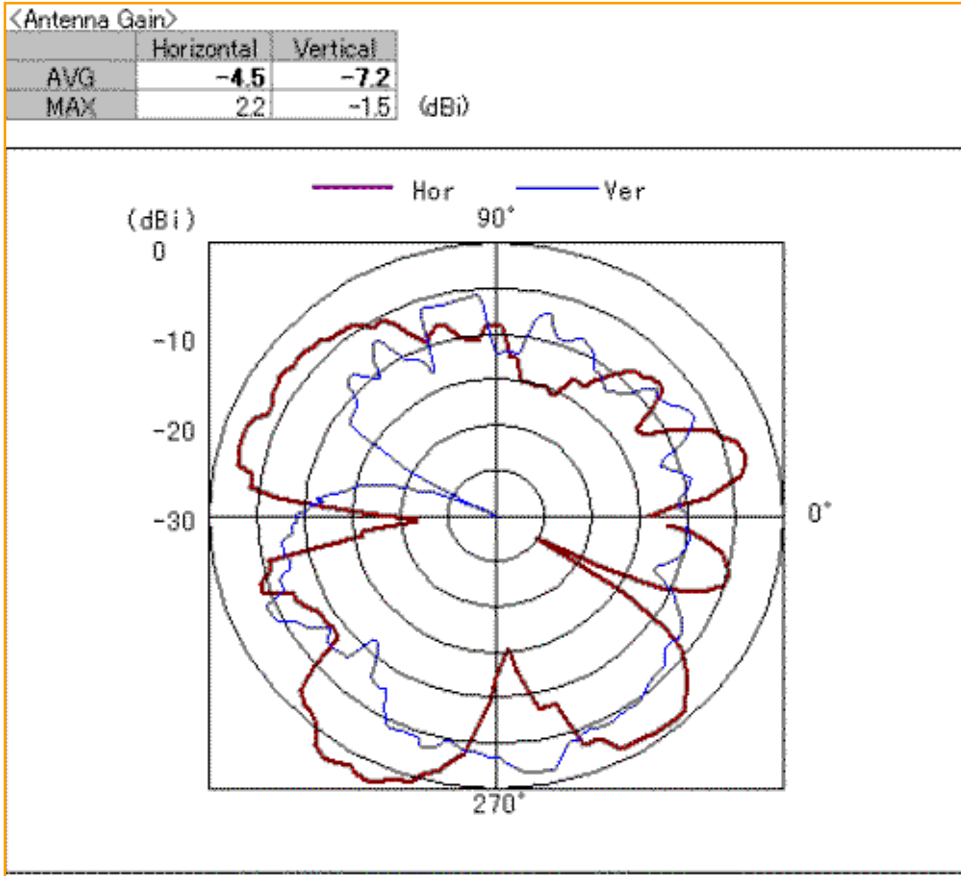
Center Frequency	2400 MHz
Horizontal (dBi) peak	1.0
Vertical (dBi) peak	-3.5
Horz+Vert (dBi) peak	1.0

Main antenna: 2450 MHz



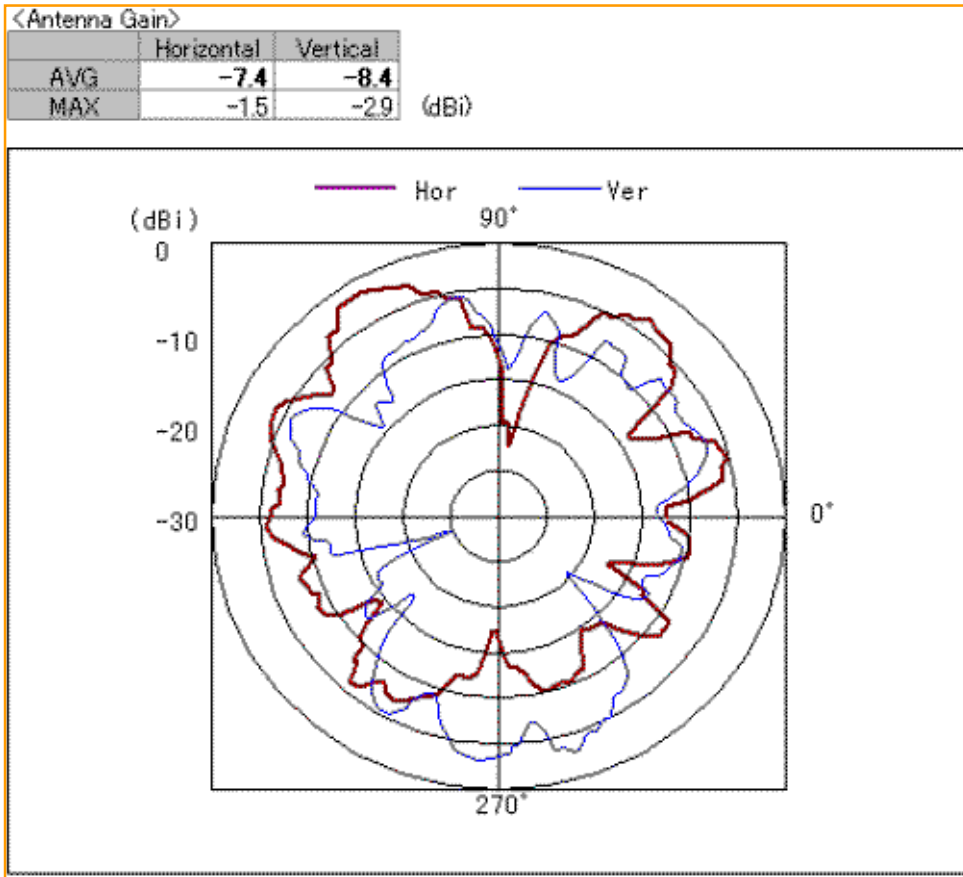
Center Frequency	2450 MHz
Horizontal (dBi) peak	1.8
Vertical (dBi) peak	-3.2
Horz+Vert (dBi) peak	1.8

Main antenna: 2500 MHz



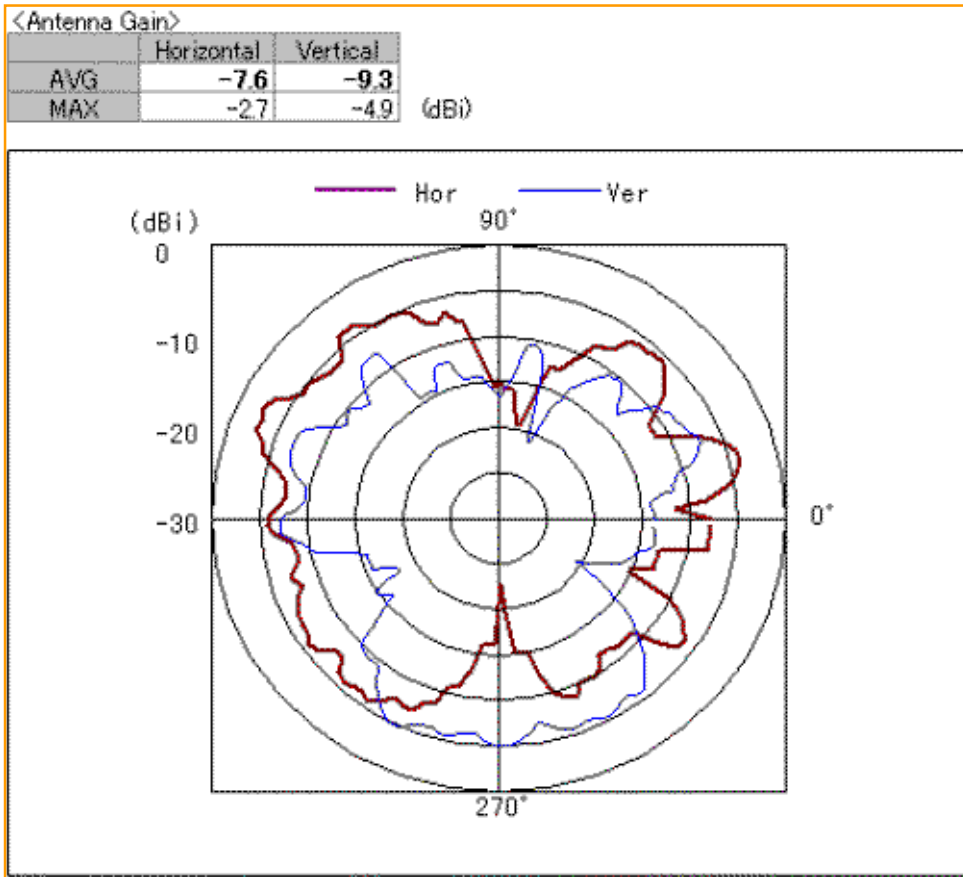
Center Frequency	2500 MHz
Horizontal (dBi) peak	2.2
Vertical (dBi) peak	-1.5
Horz+Vert (dBi) peak	2.2

Auxiliary antenna: 2400 MHz



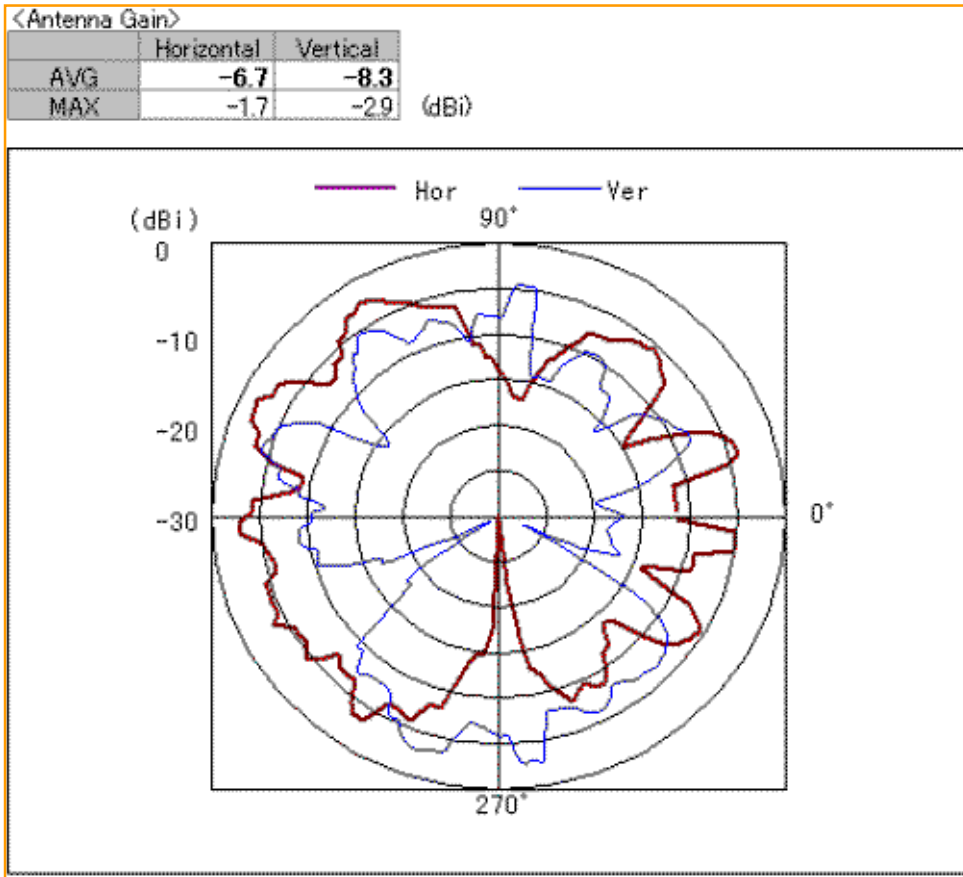
Center Frequency	2400 MHz
Horizontal (dBi) peak	-1.5
Vertical (dBi) peak	-2.9
Horz+Vert (dBi) peak	-1.5

Auxiliary antenna: 2450 MHz



Center Frequency	2450 MHz
Horizontal (dBi) peak	-2.7
Vertical (dBi) peak	-4.9
Horz+Vert (dBi) peak	-2.7

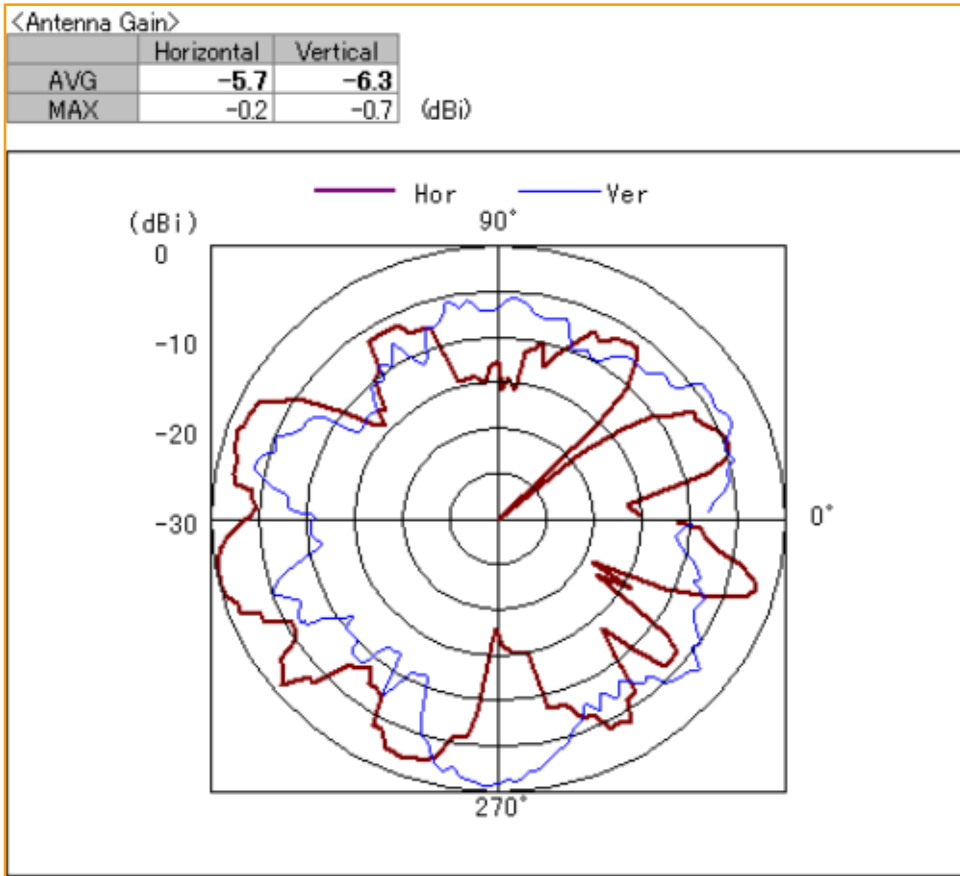
Auxiliary antenna: 2500 MHz



Center Frequency	2500 MHz
Horizontal (dBi) peak	-1.7
Vertical (dBi) peak	-2.9
Horz+Vert (dBi) peak	-1.7

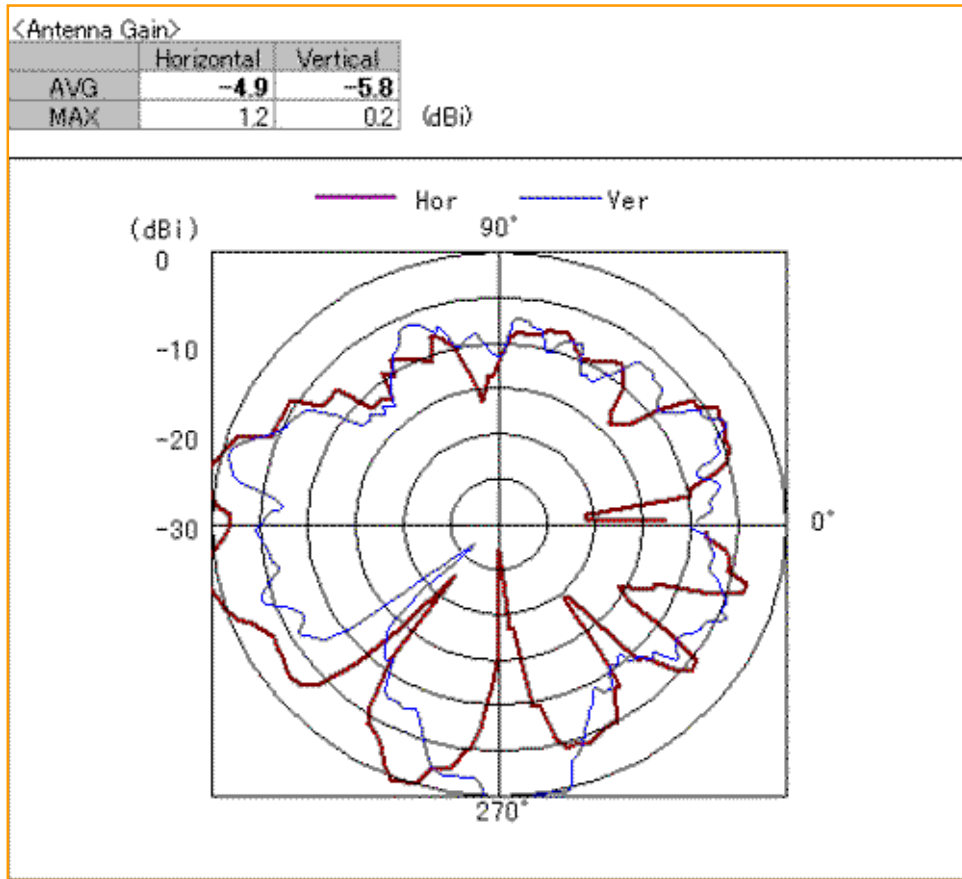
5150-5350 MHz radiation characteristic

Main antenna: 5150 MHz



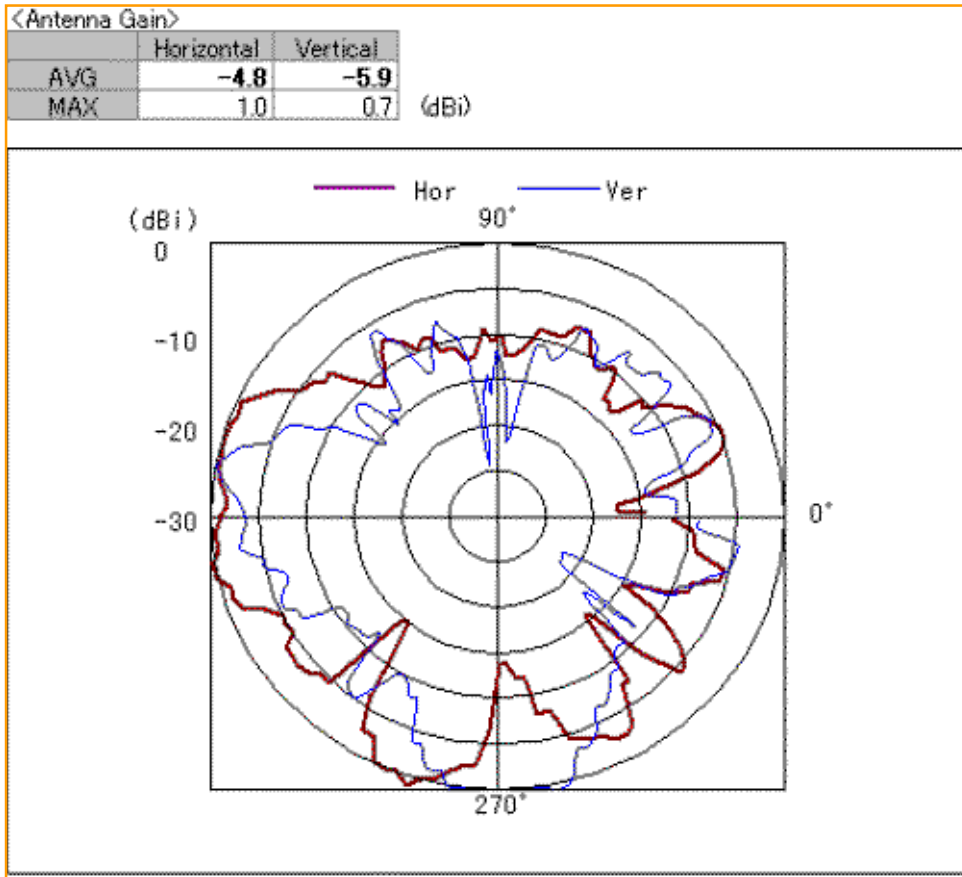
Center Frequency	5150 MHz
Horizontal (dBi) peak	-0.2
Vertical (dBi) peak	-0.7
Horz+Vert (dBi) peak	-0.2

Main antenna: 5250 MHz



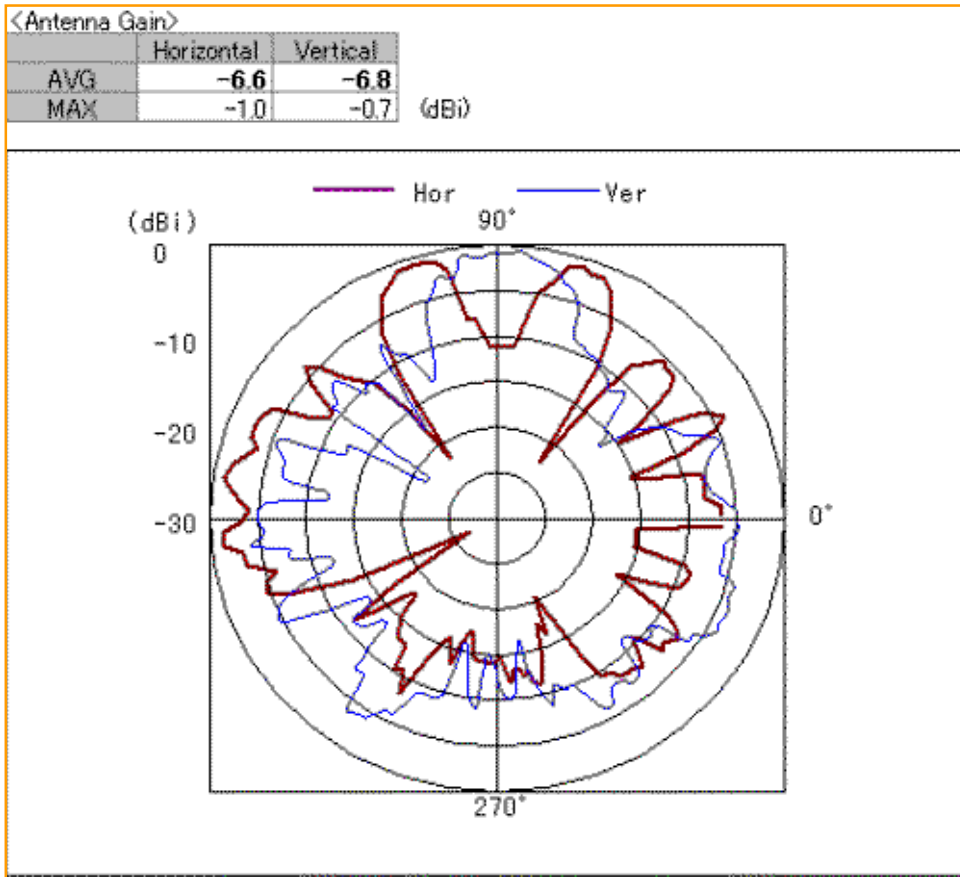
Center Frequency	5250 MHz
Horizontal (dBi) peak	1.2
Vertical (dBi) peak	0.2
Horz+Vert (dBi) peak	1.2

Main antenna: 5350 MHz



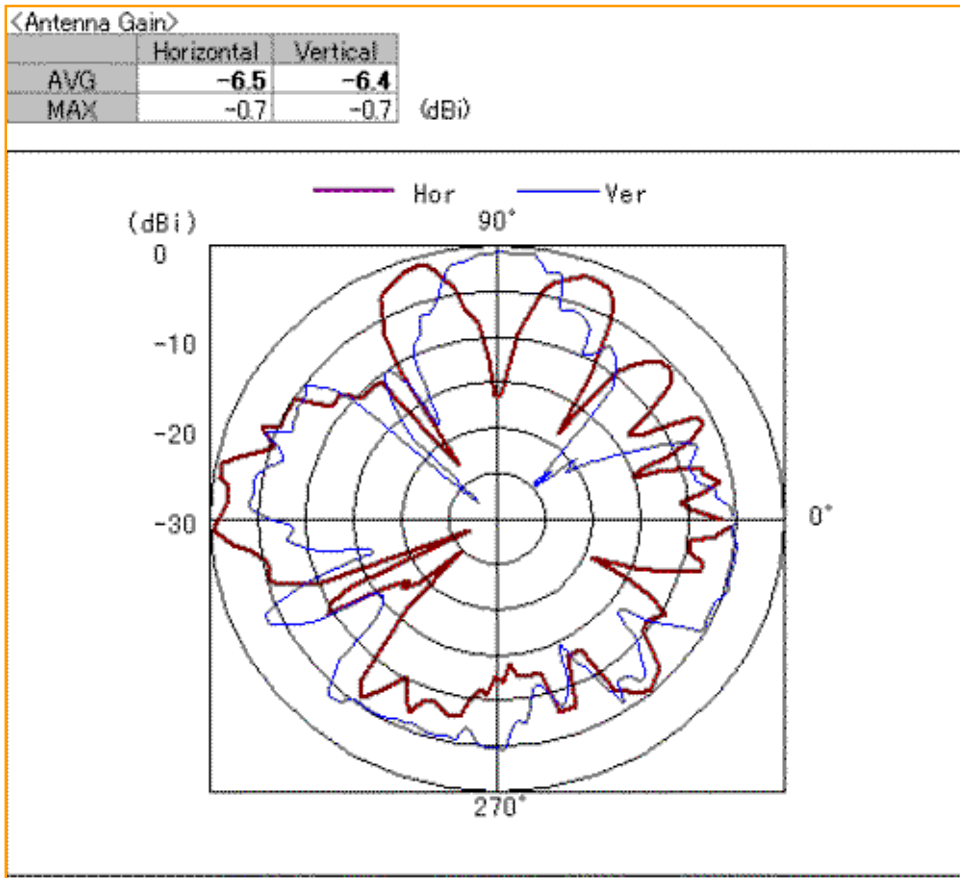
Center Frequency	5350 MHz
Horizontal (dBi) peak	1.0
Vertical (dBi) peak	0.7
Horz+Vert (dBi) peak	1.0

Auxiliary antenna: 5150 MHz



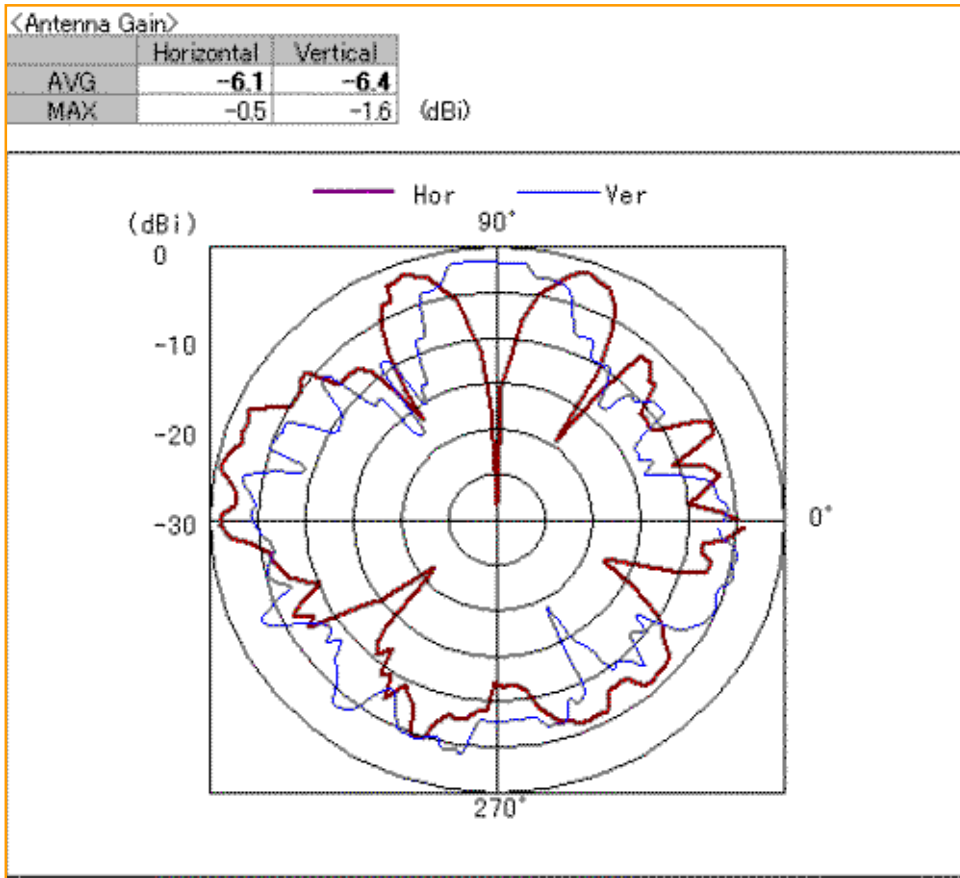
Center Frequency	5150 MHz
Horizontal (dBi) peak	-1.0
Vertical (dBi) peak	-0.7
Horz+Vert (dBi) peak	-0.7

Auxiliary antenna: 5250 MHz



Center Frequency	5250 MHz
Horizontal (dBi) peak	-0.7
Vertical (dBi) peak	-0.7
Horz+Vert (dBi) peak	-0.7

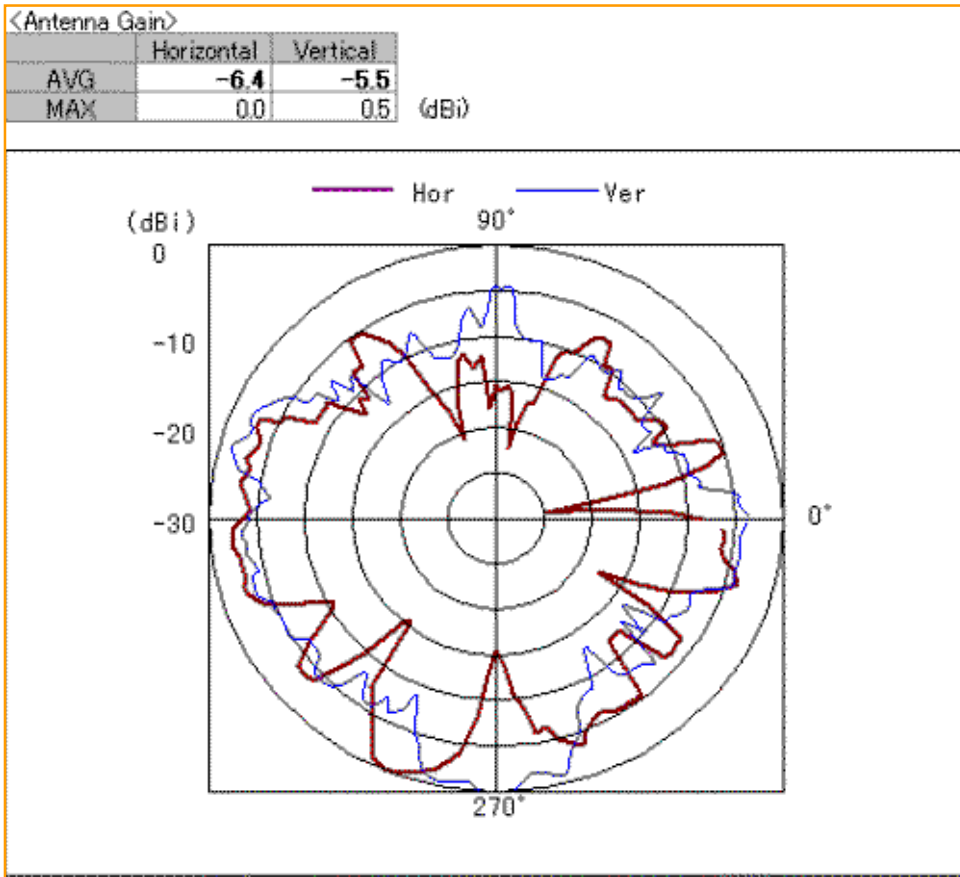
Auxiliary antenna: 5350 MHz



Center Frequency	5350 MHz
Horizontal (dBi) peak	-0.5
Vertical (dBi) peak	-1.6
Horz+Vert (dBi) peak	-0.5

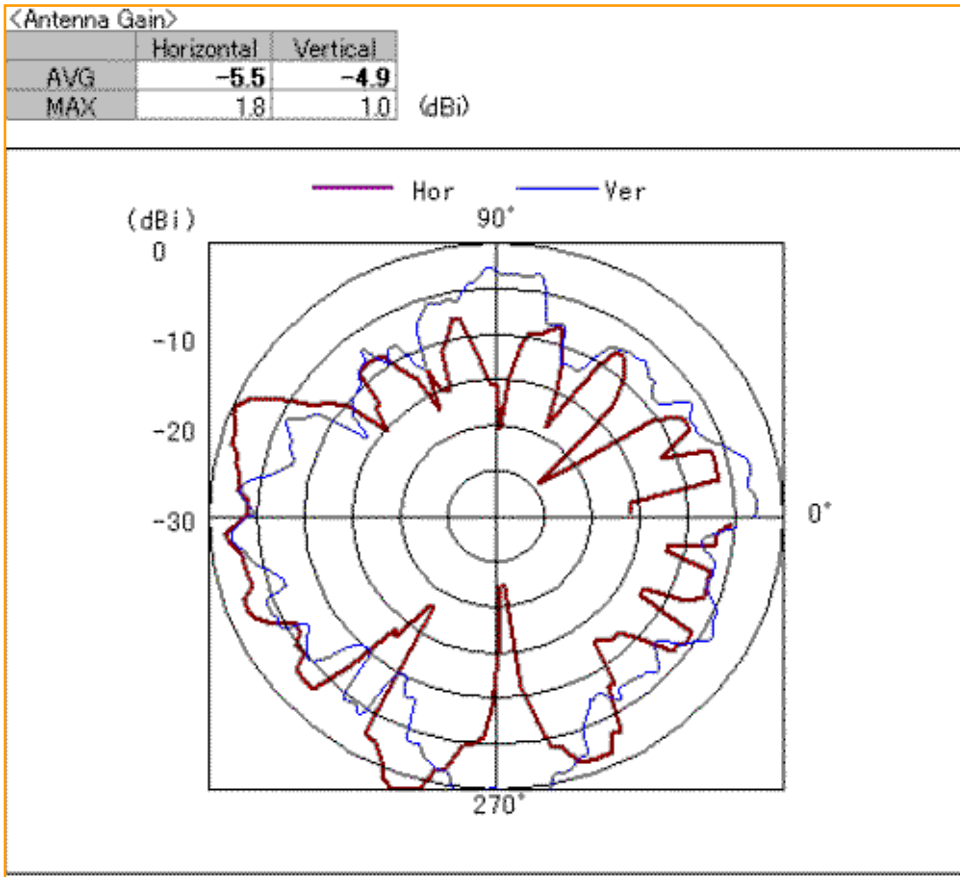
5470-5725MHz radiation characteristic

Main antenna: 5470 MHz



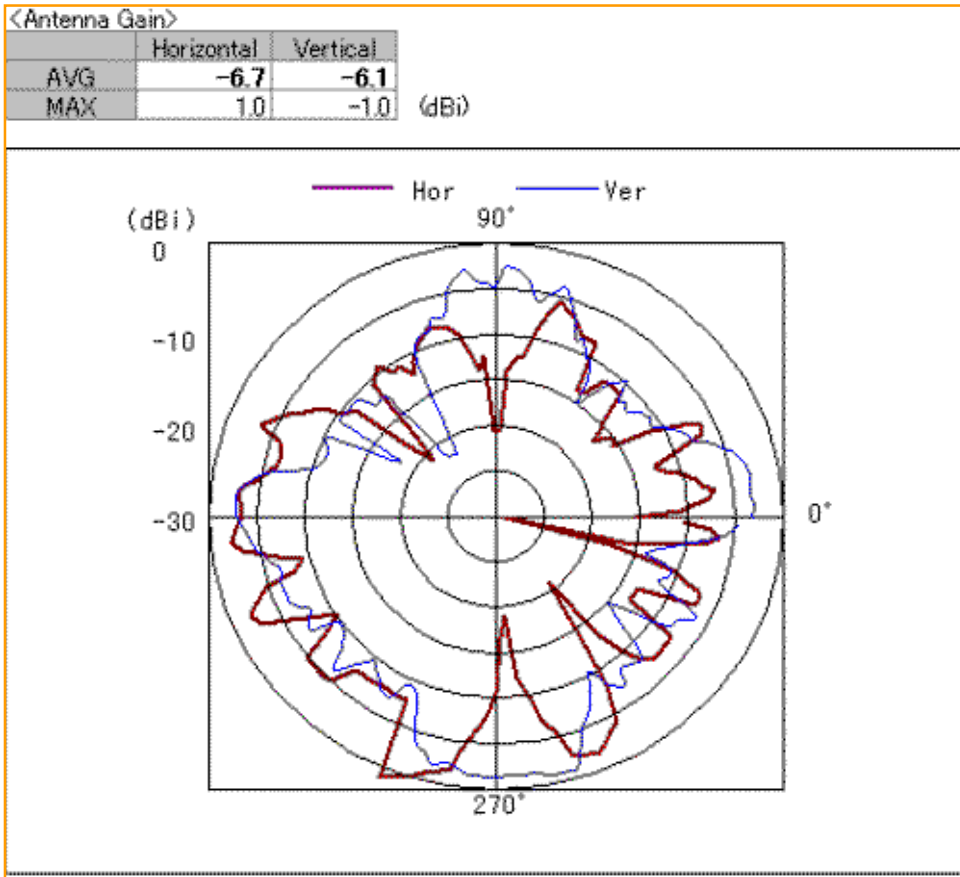
Center Frequency	5470 MHz
Horizontal (dBi) peak	0.0
Vertical (dBi) peak	0.5
Horz+Vert (dBi) peak	0.5

Main antenna: 5597.5 MHz



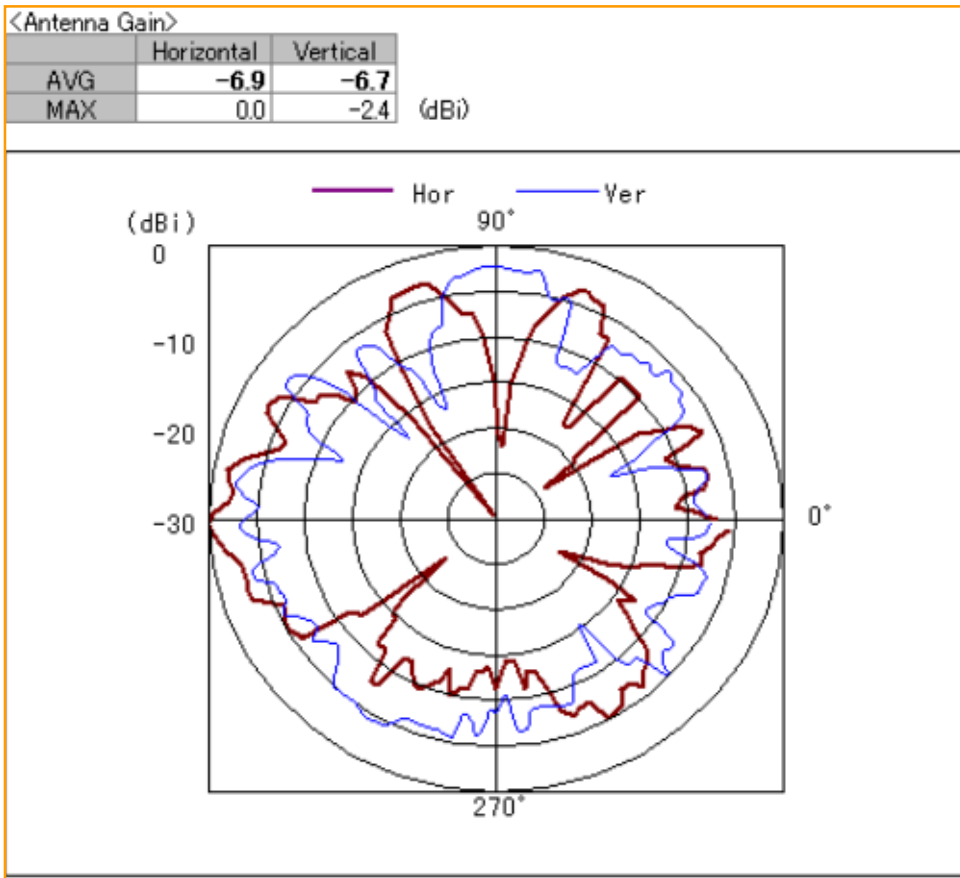
Center Frequency	5597.5 MHz
Horizontal (dBi) peak	1.8
Vertical (dBi) peak	1.0
Horz+Vert (dBi) peak	1.8

Main antenna: 5725 MHz



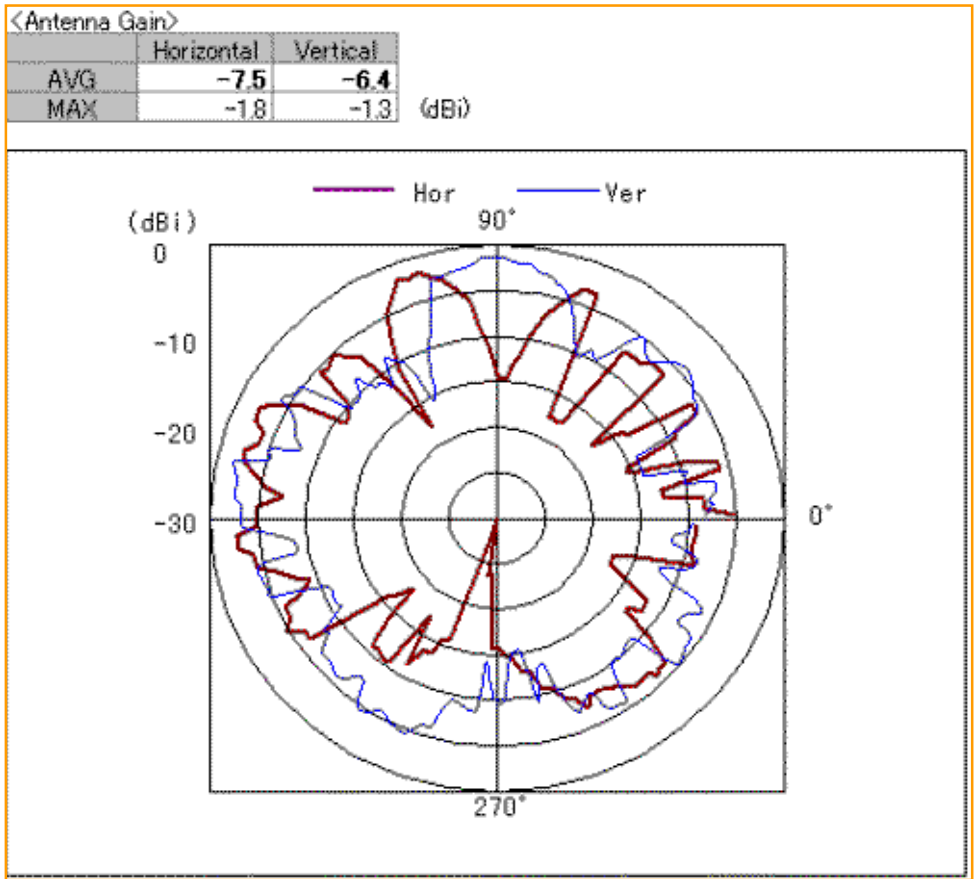
Center Frequency	5725 MHz
Horizontal (dBi) peak	1.0
Vertical (dBi) peak	-1.0
Horz+Vert (dBi) peak	1.0

Auxiliary antenna: 5470 MHz



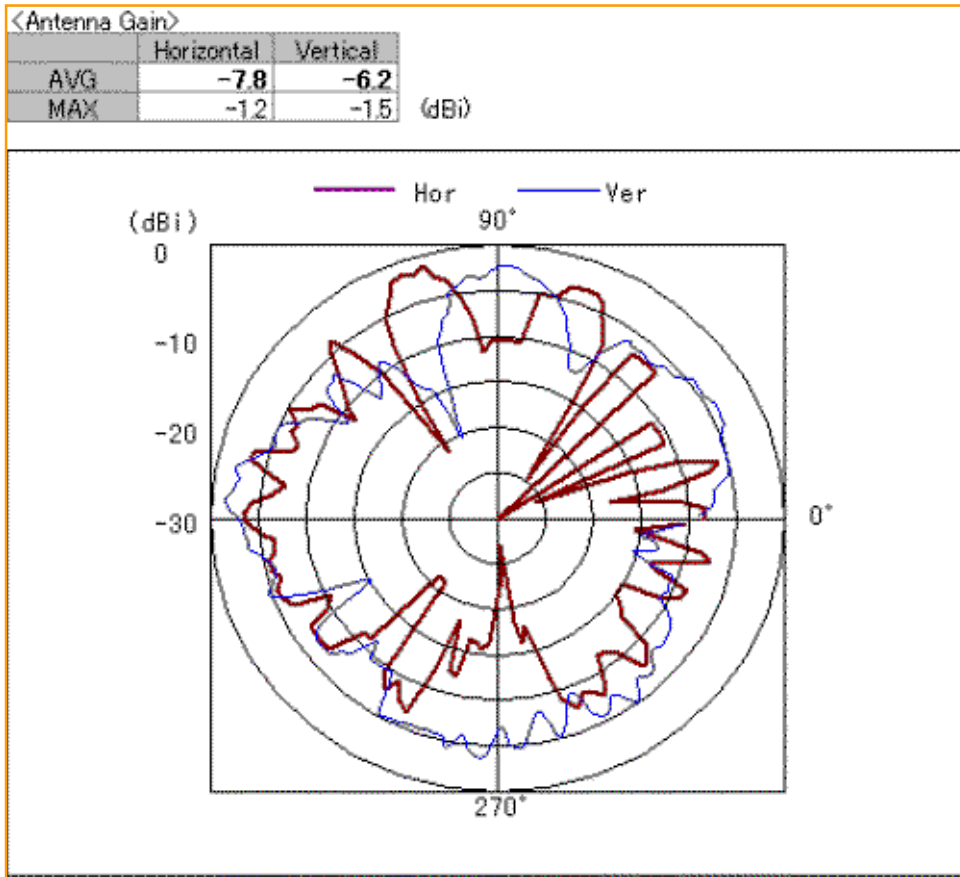
Center Frequency	5470 MHz
Horizontal (dBi) peak	0.0
Vertical (dBi) peak	-2.4
Horz+Vert (dBi) peak	0.0

Auxiliary antenna: 5597.5 MHz



Center Frequency	5597.5 MHz
Horizontal (dBi) peak	-1.8
Vertical (dBi) peak	-1.3
Horz+Vert (dBi) peak	-1.3

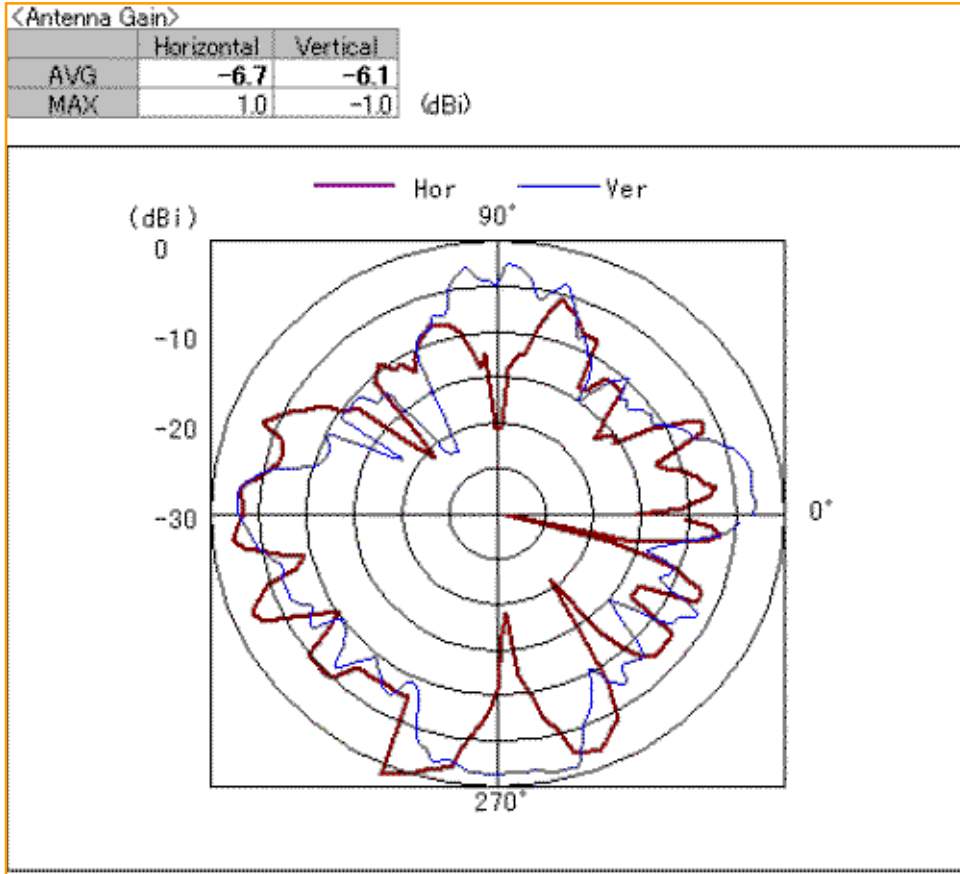
Auxiliary antenna: 5725 MHz



Center Frequency	5725 MHz
Horizontal (dBi) peak	-1.2
Vertical (dBi) peak	-1.5
Horz+Vert (dBi) peak	-1.2

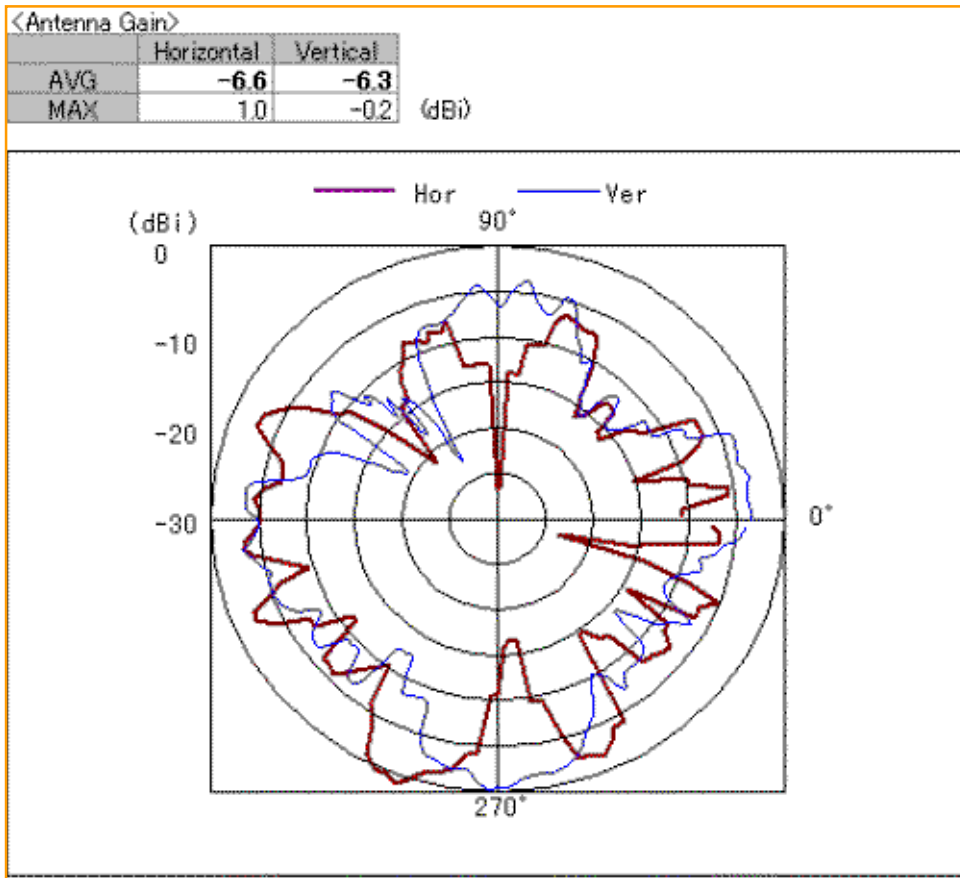
5725-5850 MHz radiation characteristic

Main antenna: 5725 MHz



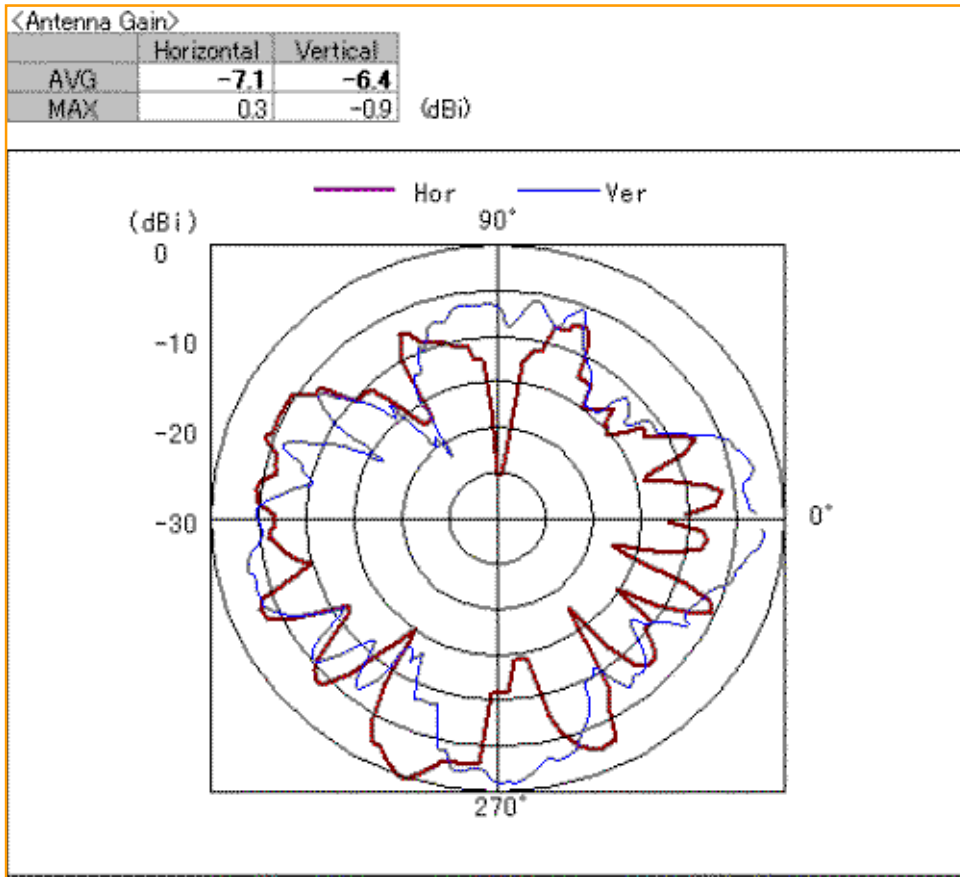
Center Frequency	5725 MHz
Horizontal (dBi) peak	1.0
Vertical (dBi) peak	-1.0
Horz+Vert (dBi) peak	1.0

Main antenna: 5785 MHz



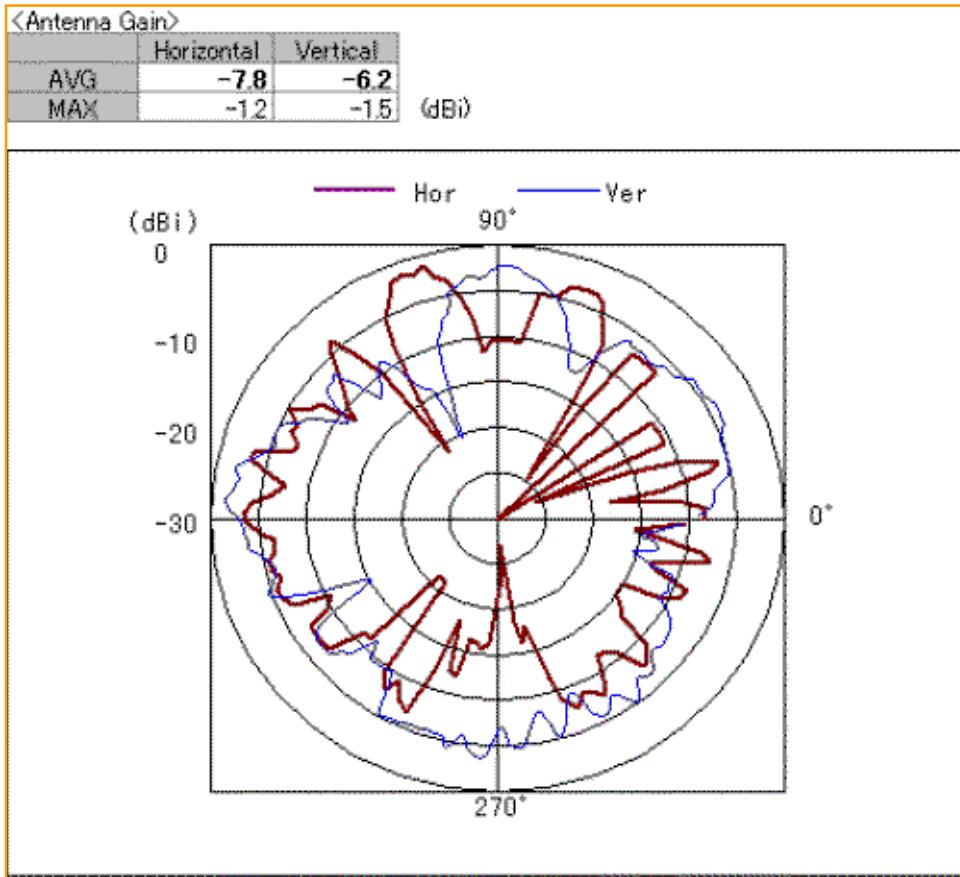
Center Frequency	5785 MHz
Horizontal (dBi) peak	1.0
Vertical (dBi) peak	-0.2
Horz+Vert (dBi) peak	1.0

Main antenna: 5850 MHz



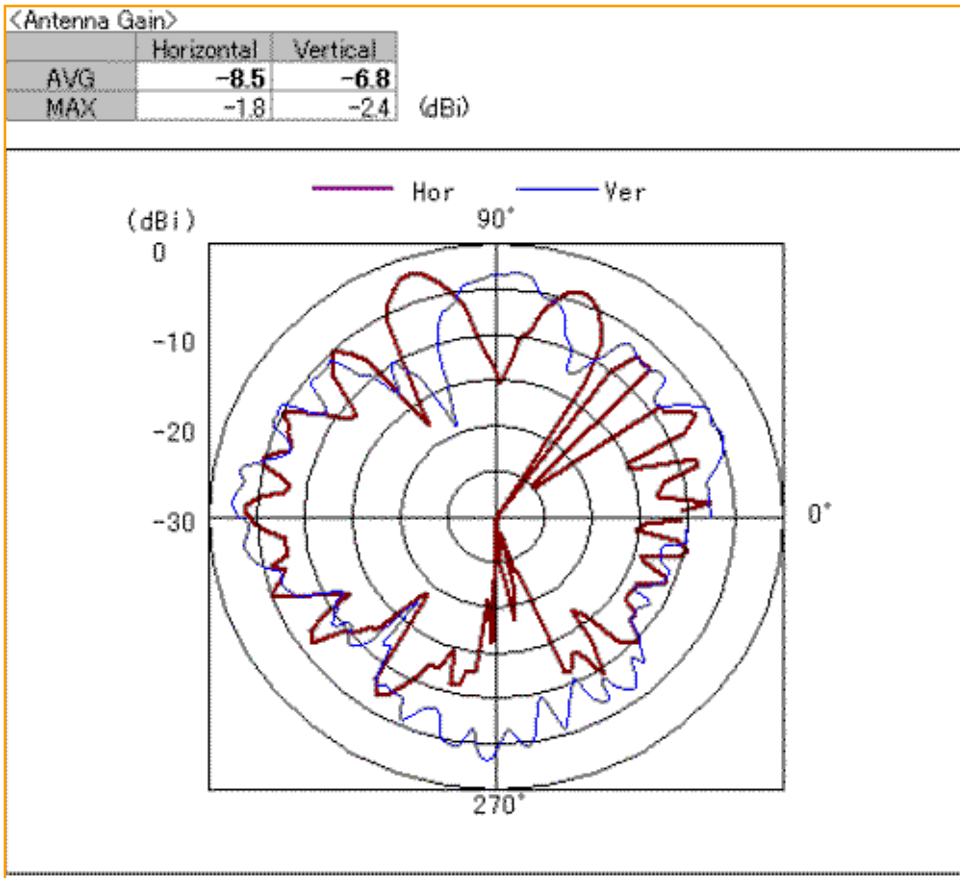
Center Frequency	5850 MHz
Horizontal (dBi) peak	0.3
Vertical (dBi) peak	-0.9
Horz+Vert (dBi) peak	-0.3

Auxiliary antenna: 5725 MHz



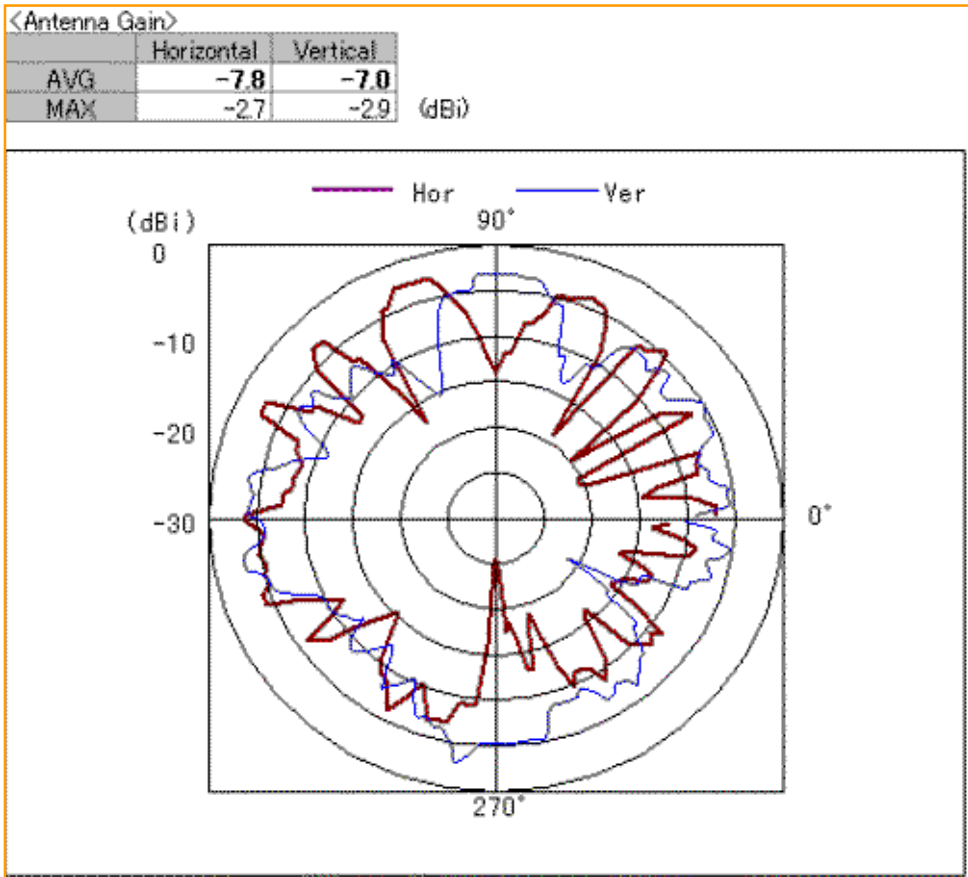
Center Frequency	5725 MHz
Horizontal (dBi) peak	-1.2
Vertical (dBi) peak	-1.5
Horz+Vert (dBi) peak	-1.2

Auxiliary antenna: 5785 MHz



Center Frequency	5785 MHz
Horizontal (dBi) peak	-1.8
Vertical (dBi) peak	-2.4
Horz+Vert (dBi) peak	-1.8

Auxiliary antenna: 5850 MHz



Center Frequency	5850 MHz
Horizontal (dBi) peak	-2.7
Vertical (dBi) peak	-2.9
Horz+Vert (dBi) peak	-2.7