

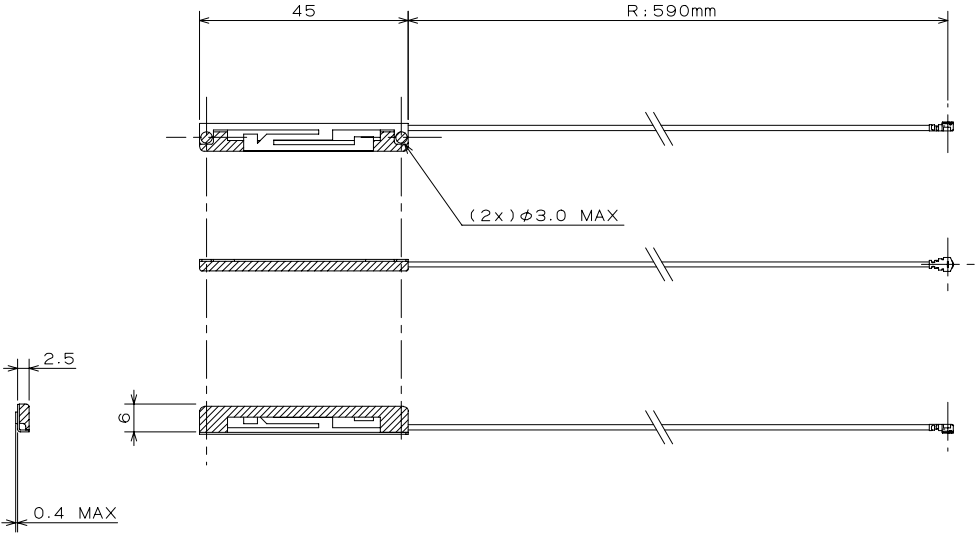
Section 1. Antenna Assembly Specifications

Antenna Assembly Summary:

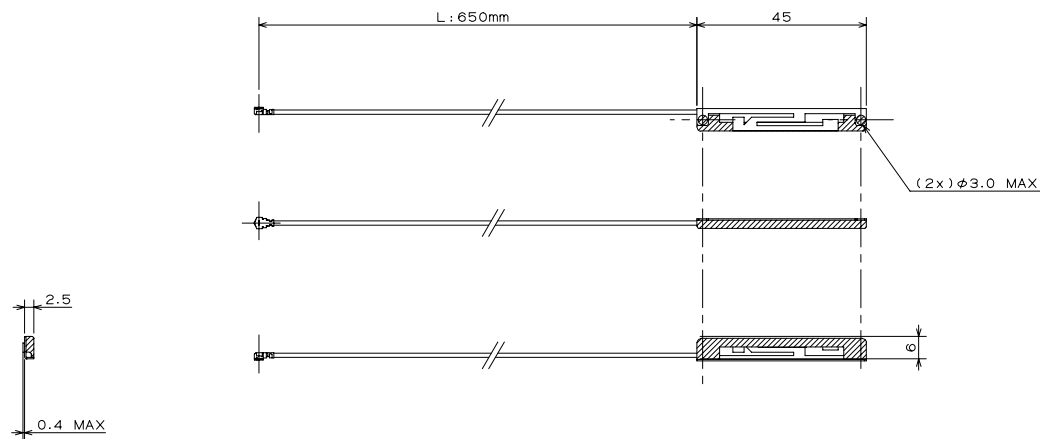
1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
P/N:1-754-420-11 Main antenna (R side)	NISSEI ELECTRIC CO., LTD.	Inverted-F	P/N: RF-MF50161 50 ohm Coaxial. length: 590mm diameter: 1.13mm Connector: U.FL	2400-2500MHz 2.13 dBi (peak)	2400-2500MHz 4.10 dBi (peak)	2400-2500MHz 2.00 max	2400-2500MHz 1.97 dBi (peak)
				5150-5350MHz 1.80 dBi (peak)	5150-5350MHz 4.83 dBi (peak)	5150-5350MHz 2.00 max	5150-5350MHz 3.03 dBi (peak)
				5470-5725MHz -0.31 dBi (peak)	5470-5725MHz 2.84 dBi (peak)	5470-5725MHz 2.00 max	5470-5725MHz 3.15 dBi (peak)
				5725-5850MHz -1.31 dBi (peak)	5725-5850MHz 1.99 dBi (peak)	5725-5850MHz 2.00 max	5725-5850MHz 3.30 dBi (peak)
P/N:1-754-420-21 Auxiliary antenna (L side)	NISSEI ELECTRIC CO., LTD.	Inverted-F	P/N: RF-MF50161 50 ohm Coaxial. length: 650mm diameter: 1.13mm Connector: U.FL	2400-2500MHz -0.41 dBi (peak)	2400-2500MHz 1.76 dBi (peak)	2400-2500MHz 2.00 max	2400-2500MHz 2.17 dBi (peak)
				5150-5350MHz 1.21 dBi (peak)	5150-5350MHz 4.55 dBi (peak)	5150-5350MHz 2.00 max	5150-5350MHz 3.34 dBi (peak)
				5470-5725MHz 1.39 dBi (peak)	5470-5725MHz 4.86 dBi (peak)	5470-5725MHz 2.00 max	5470-5725MHz 3.47 dBi (peak)
				5725-5850MHz 1.12 dBi (peak)	5725-5850MHz 4.75 dBi (peak)	5725-5850MHz 2.00 max	5725-5850MHz 3.63 dBi (peak)

Section 2. Dimensioned Photos or Drawings of Antennas

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



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

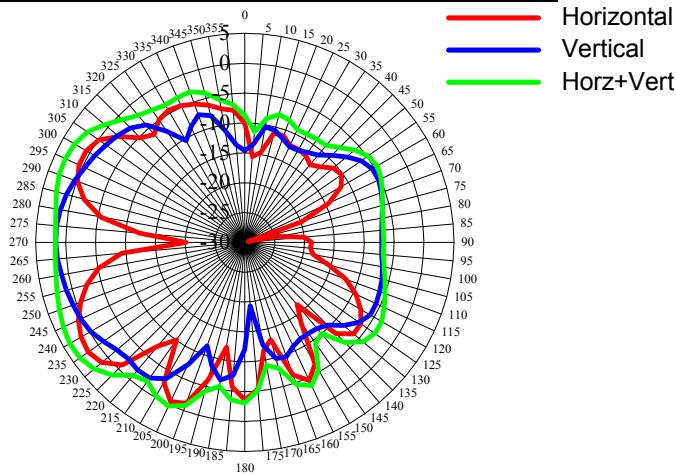


Section 3. Radiation characteristics of antennae Loaded in Host Platform

2400-2500MHz radiation characteristic

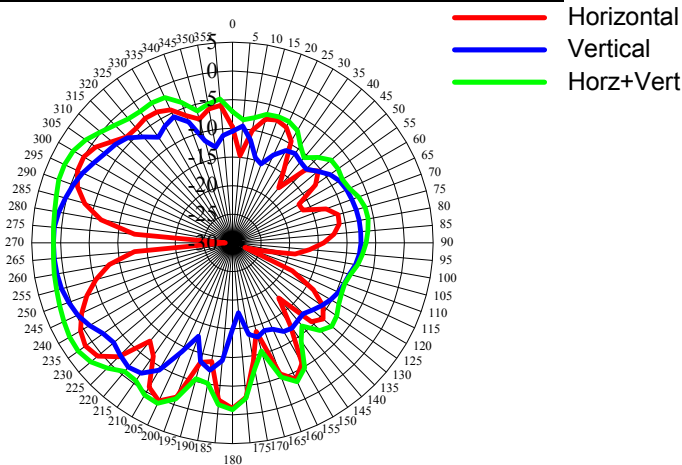
Main antenna: 2400 MHz

Main Antenna	2400 MHz
Horizontal Average	-4.97 dBi
Vertical Average	-4.07 dBi
Horz+Vert Average	-1.49 dBi
Horizontal Peak	1.97 dBi
Vertical Peak	1.63 dBi
Horz+Vert Peak	3.82 dBi



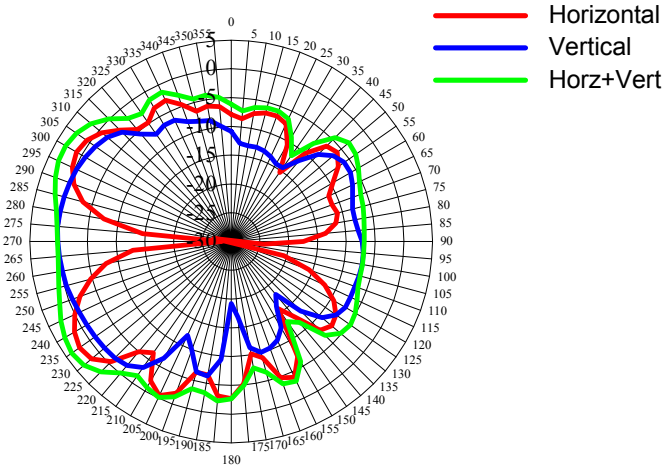
Main antenna: 2450 MHz

Main Antenna	2450 MHz
Horizontal Average	-5.12 dBi
Vertical Average	-4.82 dBi
Horz+Vert Average	-1.96 dBi
Horizontal Peak	1.33 dBi
Vertical Peak	1.23 dBi
Horz+Vert Peak	2.85 dBi



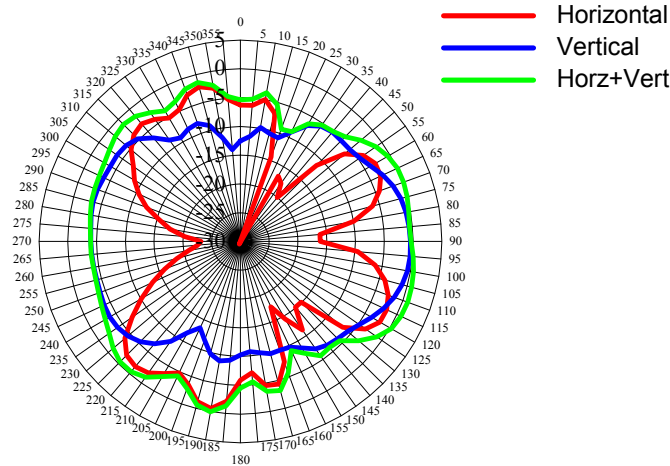
Main antenna: 2500 MHz

Main Antenna	2500 MHz
Horizontal Average	-4.52 dBi
Vertical Average	-4.76 dBi
Horz+Vert Average	-1.63 dBi
Horizontal Peak	2.13 dBi
Vertical Peak	0.23 dBi
Horz+Vert Peak	3.80 dBi



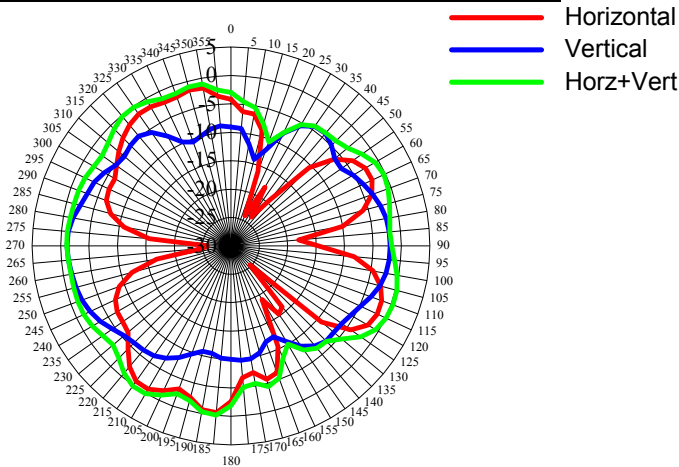
Auxiliary antenna: 2400 MHz

Auxiliary Antenna	2400 MHz
Horizontal Average	-5.77 dBi
Vertical Average	-5.00 dBi
Horz+Vert Average	-2.36 dBi
Horizontal Peak	-0.56 dBi
Vertical Peak	-0.41 dBi
Horz+Vert Peak	0.90 dBi



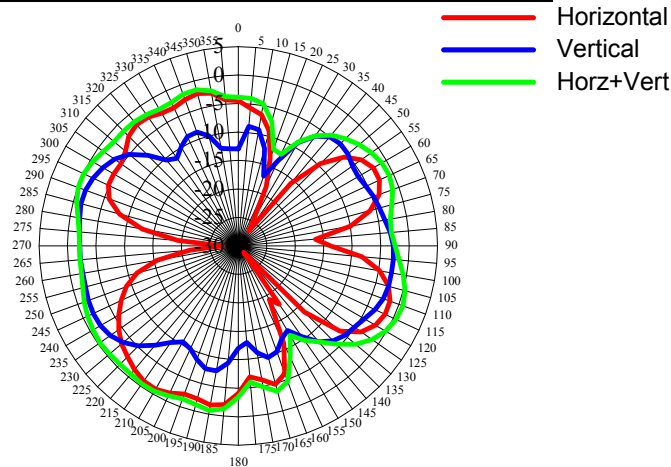
Auxiliary antenna: 2450 MHz

Auxiliary Antenna	2450 MHz
Horizontal Average	-4.98 dBi
Vertical Average	-5.08 dBi
Horz+Vert Average	-2.02 dBi
Horizontal Peak	-0.57 dBi
Vertical Peak	-1.13 dBi
Horz+Vert Peak	0.34 dBi



Auxiliary antenna: 2500 MHz

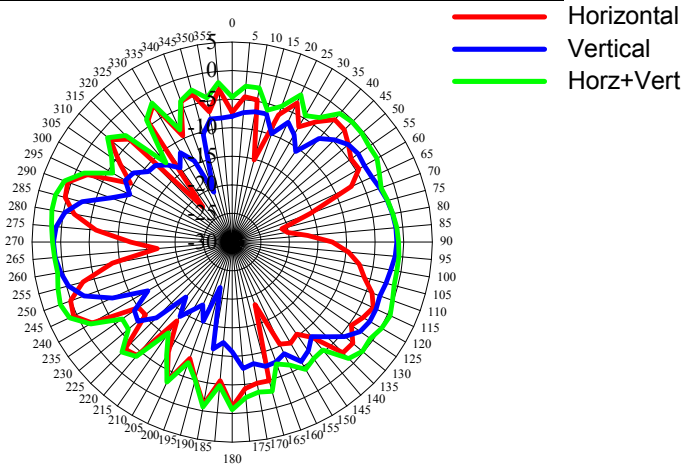
Auxiliary Antenna	2500 MHz
Horizontal Average	-4.96 dBi
Vertical Average	-5.26 dBi
Horz+Vert Average	-2.10 dBi
Horizontal Peak	-0.97 dBi
Vertical Peak	-1.45 dBi
Horz+Vert Peak	0.73 dBi



5150-5350 MHz radiation characteristic

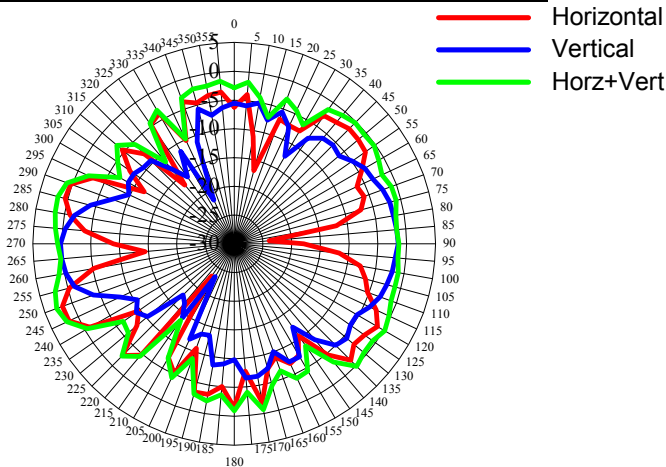
Main antenna: 5150 MHz

Main Antenna	5150 MHz
Horizontal Average	-4.63 dBi
Vertical Average	-4.87 dBi
Horz+Vert Average	-1.74 dBi
Horizontal Peak	0.59 dBi
Vertical Peak	1.20 dBi
Horz+Vert Peak	1.96 dBi



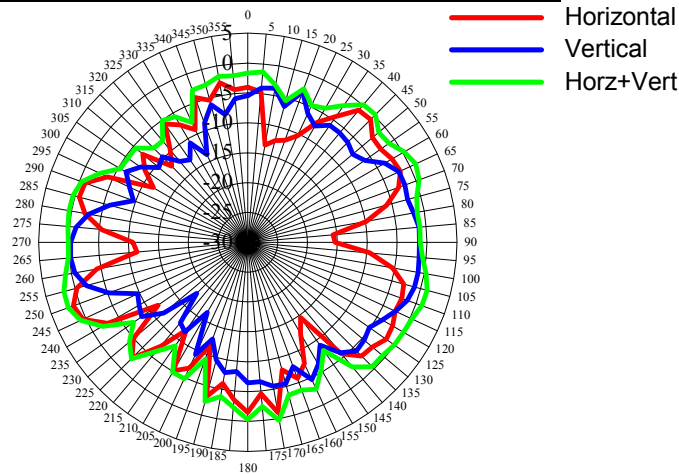
Main antenna: 5250 MHz

Main Antenna	5250 MHz
Horizontal Average	-4.23 dBi
Vertical Average	-5.35 dBi
Horz+Vert Average	-1.74 dBi
Horizontal Peak	1.80 dBi
Vertical Peak	0.21 dBi
Horz+Vert Peak	2.83 dBi



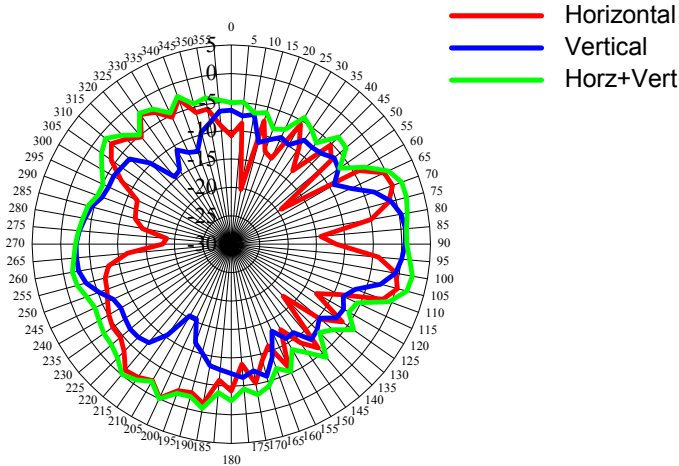
Main antenna: 5350 MHz

Main Antenna	5350 MHz
Horizontal Average	-4.37 dBi
Vertical Average	-4.93 dBi
Horz+Vert Average	-1.63 dBi
Horizontal Peak	1.08 dBi
Vertical Peak	-0.22 dBi
Horz+Vert Peak	1.99 dBi



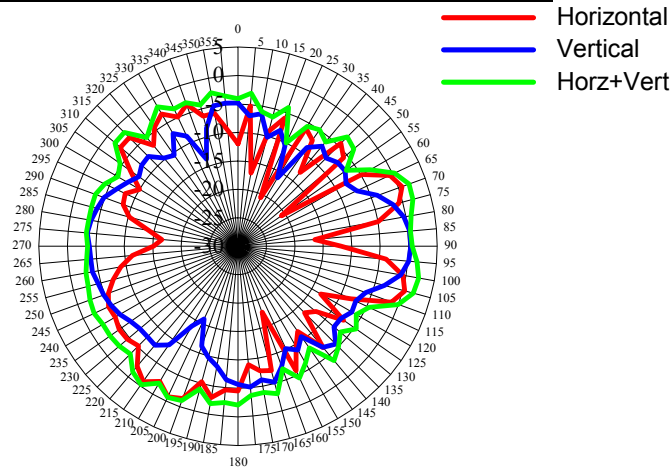
Auxiliary antenna: 5150 MHz

Auxiliary Antenna	5150 MHz
Horizontal Average	-5.13 dBi
Vertical Average	-5.79 dBi
Horz+Vert Average	-2.44 dBi
Horizontal Peak	0.20 dBi
Vertical Peak	0.73 dBi
Horz+Vert Peak	2.31 dBi



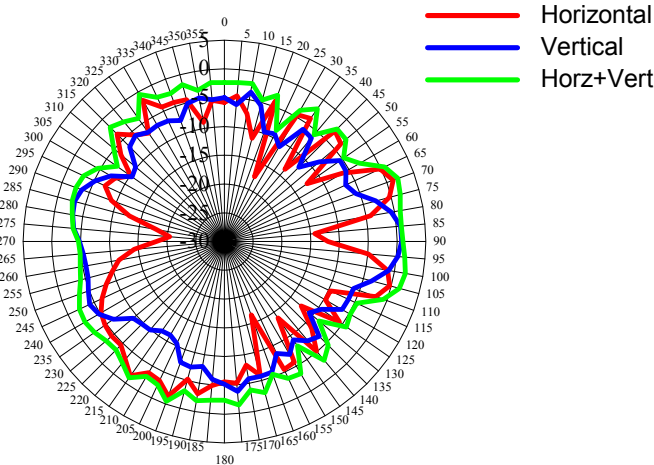
Auxiliary antenna: 5250 MHz

Auxiliary Antenna	5250 MHz
Horizontal Average	-5.23 dBi
Vertical Average	-5.68 dBi
Horz+Vert Average	-2.44 dBi
Horizontal Peak	0.65 dBi
Vertical Peak	0.37 dBi
Horz+Vert Peak	2.22 dBi



Auxiliary antenna: 5350 MHz

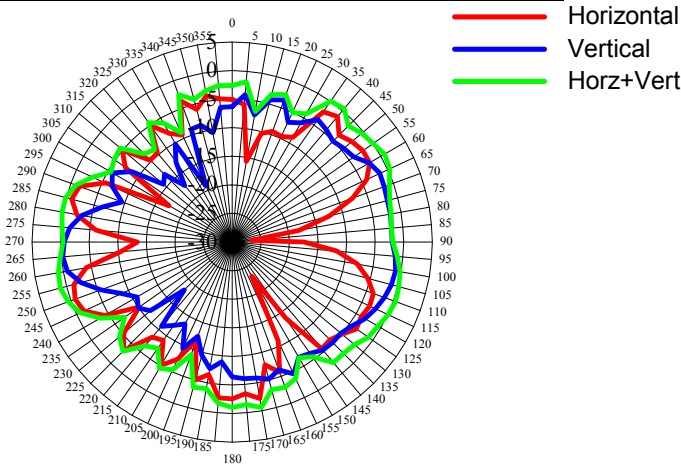
Auxiliary Antenna	5350 MHz
Horizontal Average	-5.16 dBi
Vertical Average	-5.35 dBi
Horz+Vert Average	-2.24 dBi
Horizontal Peak	1.21 dBi
Vertical Peak	0.77 dBi
Horz+Vert Peak	2.02 dBi



5470-5725MHz radiation characteristic

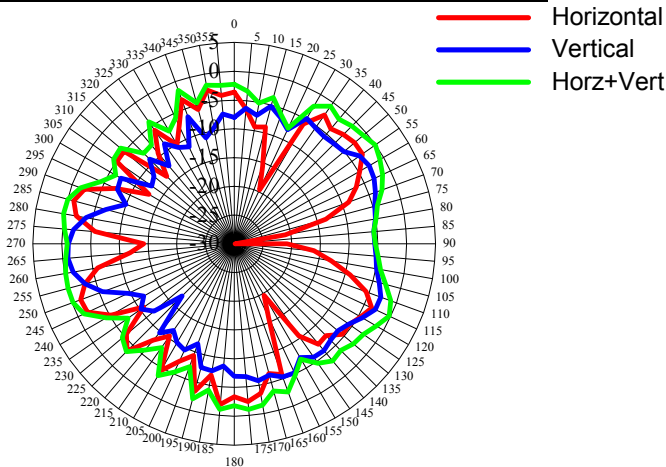
Main antenna: 5470 MHz

Main Antenna	5470 MHz
Horizontal Average	-5.22 dBi
Vertical Average	-4.92 dBi
Horz+Vert Average	-2.06 dBi
Horizontal Peak	-0.76 dBi
Vertical Peak	-0.31 dBi
Horz+Vert Peak	1.04 dBi



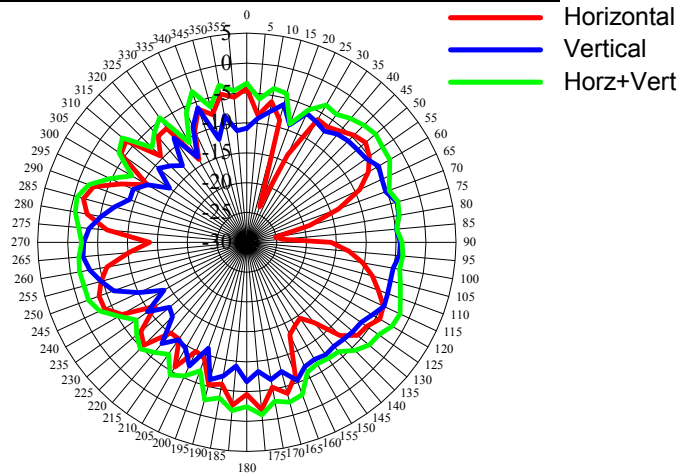
Main antenna: 5597.5 MHz

Main Antenna	5597.5 MHz
Horizontal Average	-5.65 dBi
Vertical Average	-5.93 dBi
Horz+Vert Average	-2.78 dBi
Horizontal Peak	-1.11 dBi
Vertical Peak	-0.94 dBi
Horz+Vert Peak	0.12 dBi



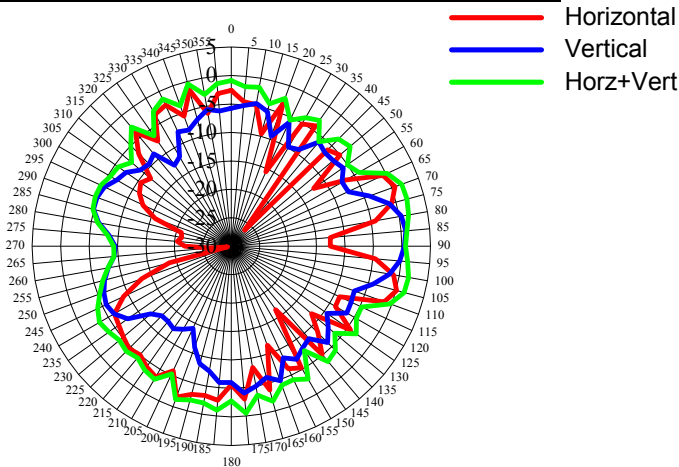
Main antenna: 5725 MHz

Main Antenna	5725 MHz
Horizontal Average	-6.52 dBi
Vertical Average	-6.76 dBi
Horz+Vert Average	-3.63 dBi
Horizontal Peak	-1.70 dBi
Vertical Peak	-2.51 dBi
Horz+Vert Peak	-0.61 dBi



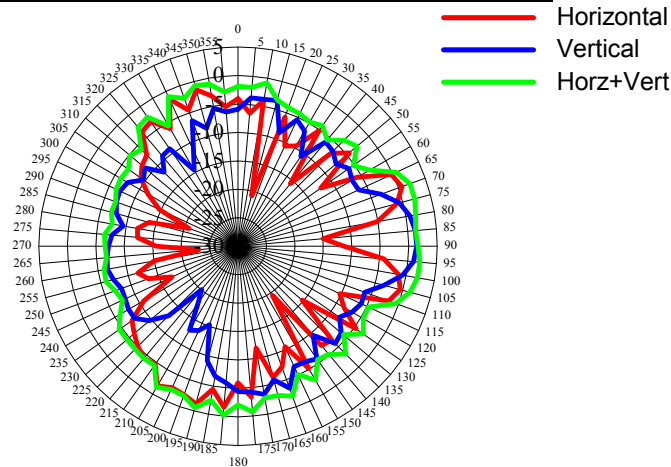
Auxiliary antenna: 5470 MHz

Auxiliary Antenna	5470 MHz
Horizontal Average	-5.28 dBi
Vertical Average	-5.89 dBi
Horz+Vert Average	-2.57 dBi
Horizontal Peak	0.59 dBi
Vertical Peak	0.79 dBi
Horz+Vert Peak	2.01 dBi



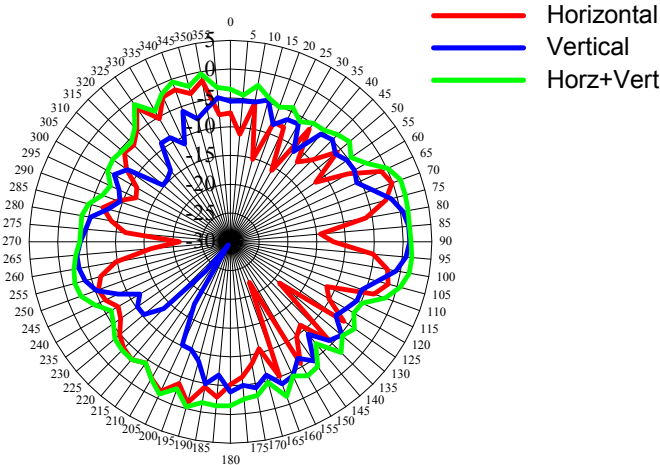
Auxiliary antenna: 5597.5 MHz

Auxiliary Antenna	5597.5 MHz
Horizontal Average	-5.36 dBi
Vertical Average	-5.52 dBi
Horz+Vert Average	-2.43 dBi
Horizontal Peak	0.64 dBi
Vertical Peak	1.39 dBi
Horz+Vert Peak	2.14 dBi



Auxiliary antenna: 5725 MHz

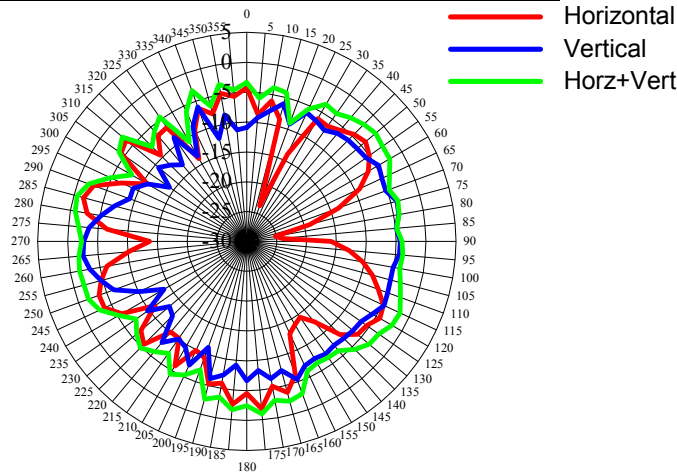
Auxiliary Antenna	5725 MHz
Horizontal Average	-5.53 dBi
Vertical Average	-5.29 dBi
Horz+Vert Average	-2.40 dBi
Horizontal Peak	-0.18 dBi
Vertical Peak	1.12 dBi
Horz+Vert Peak	1.58 dBi



5725-5850 MHz radiation characteristic

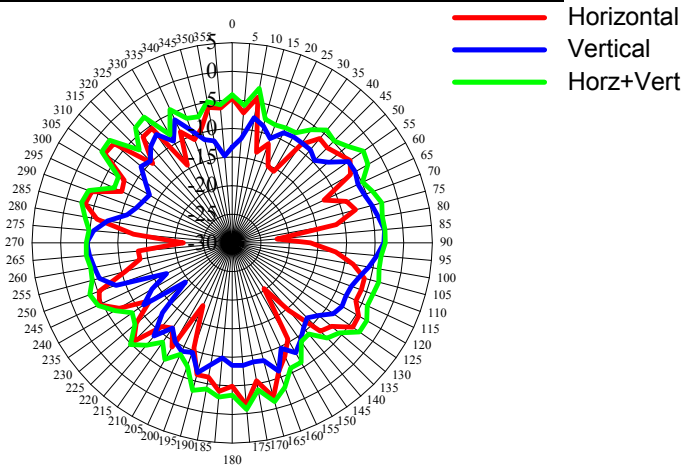
Main antenna: 5725 MHz

Main Antenna	5725 MHz
Horizontal Average	-6.52 dBi
Vertical Average	-6.76 dBi
Horz+Vert Average	-3.63 dBi
Horizontal Peak	-1.70 dBi
Vertical Peak	-2.51 dBi
Horz+Vert Peak	-0.61 dBi



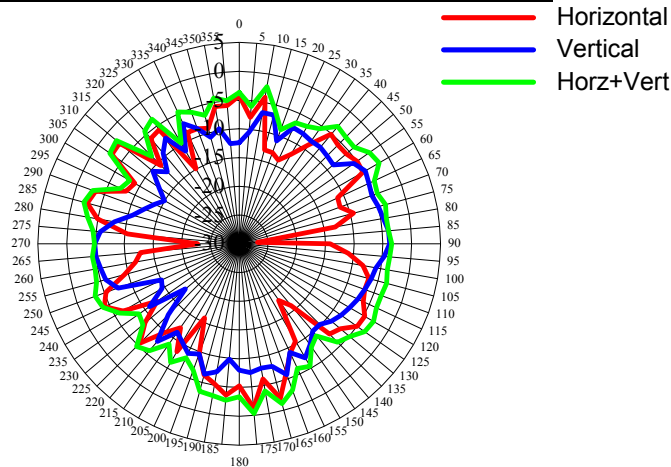
Main antenna: 5785 MHz

Main Antenna	5785 MHz
Horizontal Average	-7.08 dBi
Vertical Average	-7.98 dBi
Horz+Vert Average	-4.50 dBi
Horizontal Peak	-1.63 dBi
Vertical Peak	-3.28 dBi
Horz+Vert Peak	-0.82 dBi



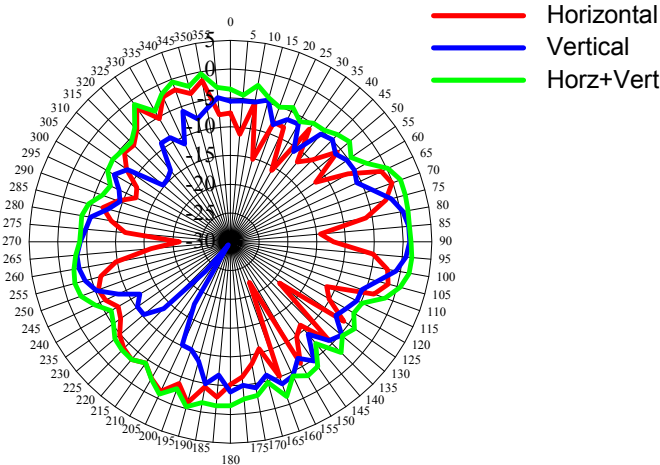
Main antenna: 5850 MHz

Main Antenna	5850 MHz
Horizontal Average	-6.93 dBi
Vertical Average	-7.82 dBi
Horz+Vert Average	-4.34 dBi
Horizontal Peak	-1.31 dBi
Vertical Peak	-3.85 dBi
Horz+Vert Peak	-0.37 dBi



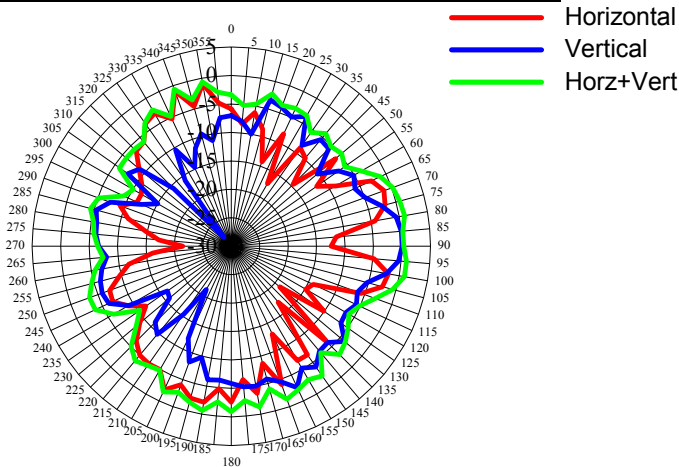
Auxiliary antenna: 5725 MHz

Auxiliary Antenna	5725 MHz
Horizontal Average	-5.53 dBi
Vertical Average	-5.29 dBi
Horz+Vert Average	-2.40 dBi
Horizontal Peak	-0.18 dBi
Vertical Peak	1.12 dBi
Horz+Vert Peak	1.58 dBi



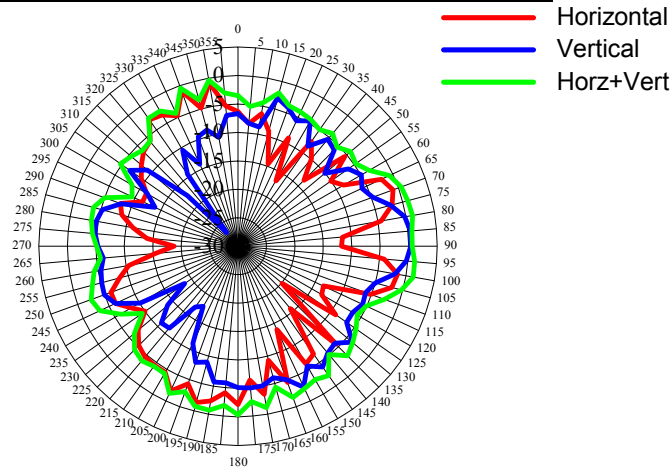
Auxiliary antenna: 5785 MHz

Auxiliary Antenna	5785 MHz
Horizontal Average	-6.11 dBi
Vertical Average	-5.99 dBi
Horz+Vert Average	-3.04 dBi
Horizontal Peak	-1.03 dBi
Vertical Peak	0.06 dBi
Horz+Vert Peak	0.94 dBi



Auxiliary antenna: 5850 MHz

Auxiliary Antenna	5850 MHz
Horizontal Average	-5.76 dBi
Vertical Average	-5.74 dBi
Horz+Vert Average	-2.74 dBi
Horizontal Peak	-0.88 dBi
Vertical Peak	0.39 dBi
Horz+Vert Peak	1.23 dBi

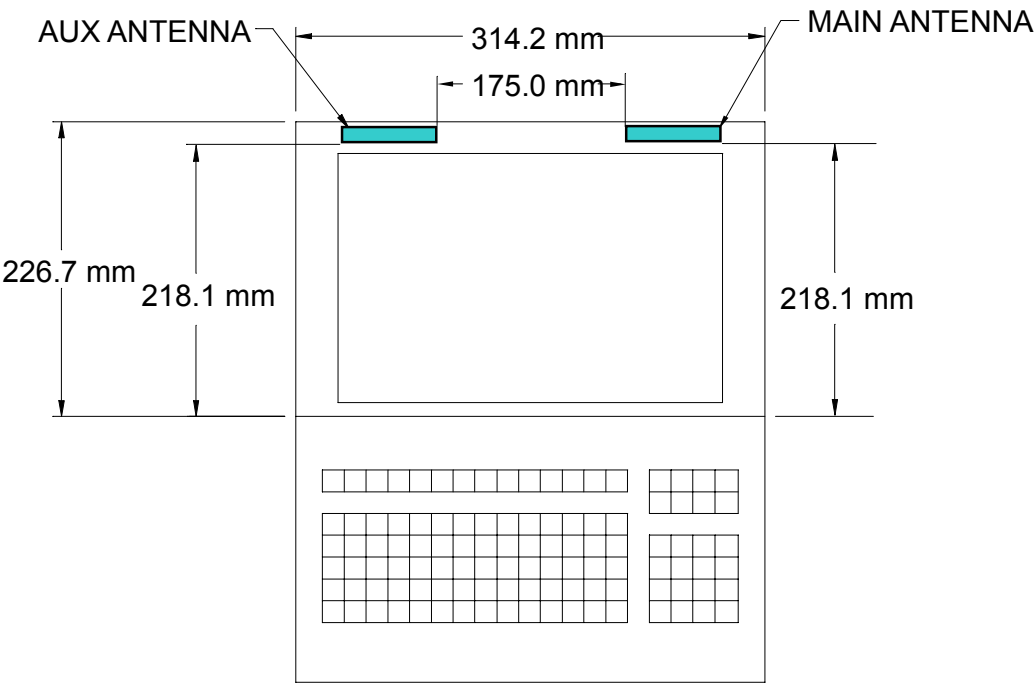


Section 4. Host Platform Information

OEM / ODM Host platform: IRX-3400 platform correlated to antenna data

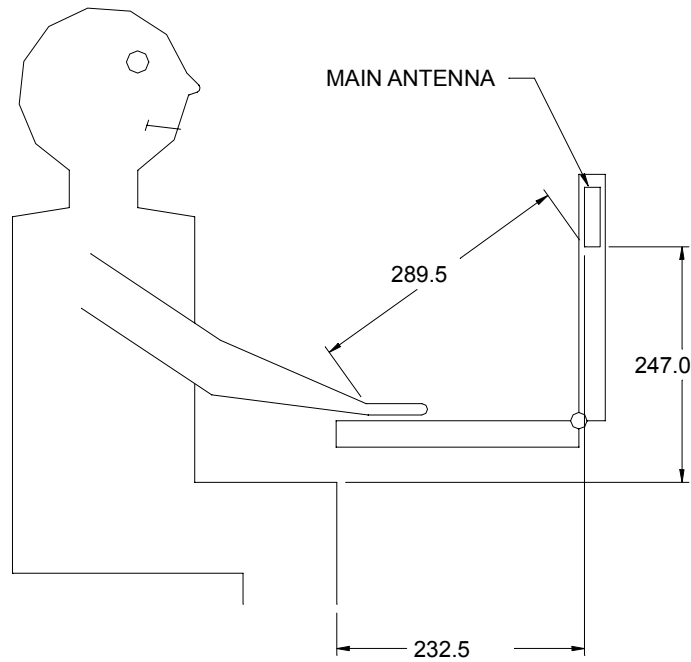
Section 5. Antenna Host Platform Location Information

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)

