

Regulatory WLAN Antenna Information

(English Language Required for Intel Regulatory Review / Approval)

OEM Vendor: Sony
Platform: ATX-6063
Antenna Vendor: ASUSTek, SmartANT, Aliner

Antenna Sample / Antenna Data Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US / IC	EU	Japan	Taiwan	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 or 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.	Required	Required	Desired	Required	Desired
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

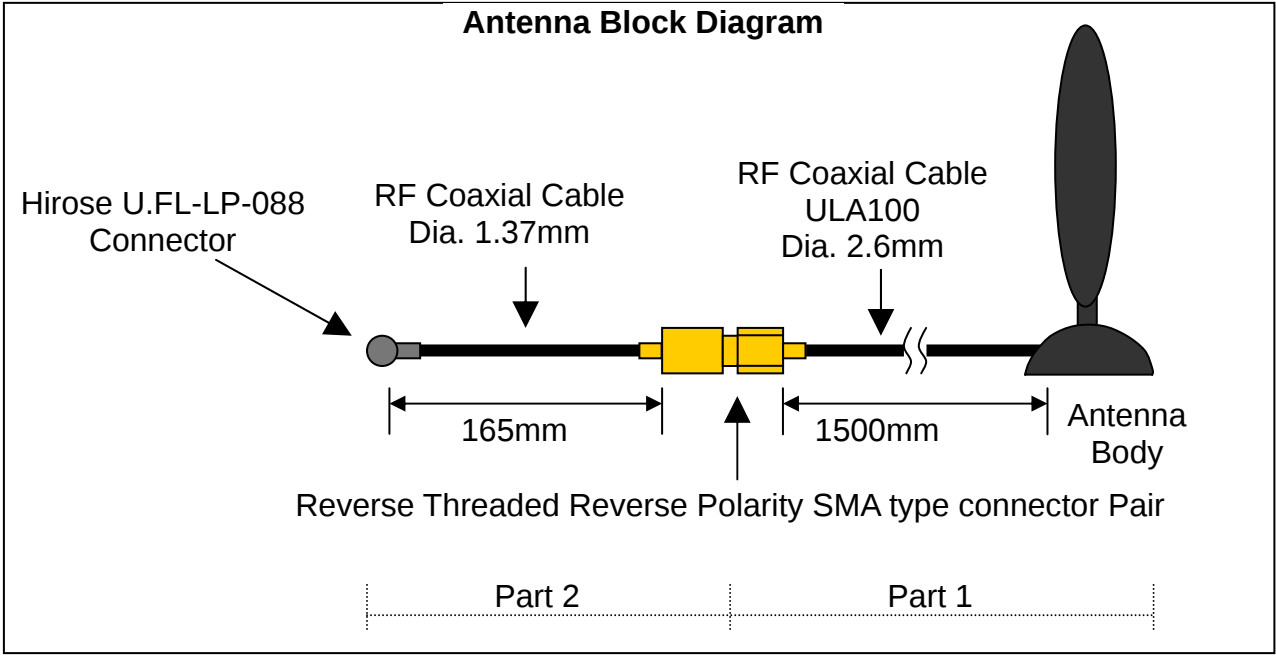
Section 1. Antenna Assembly Specifications

Antenna Assembly Summary:

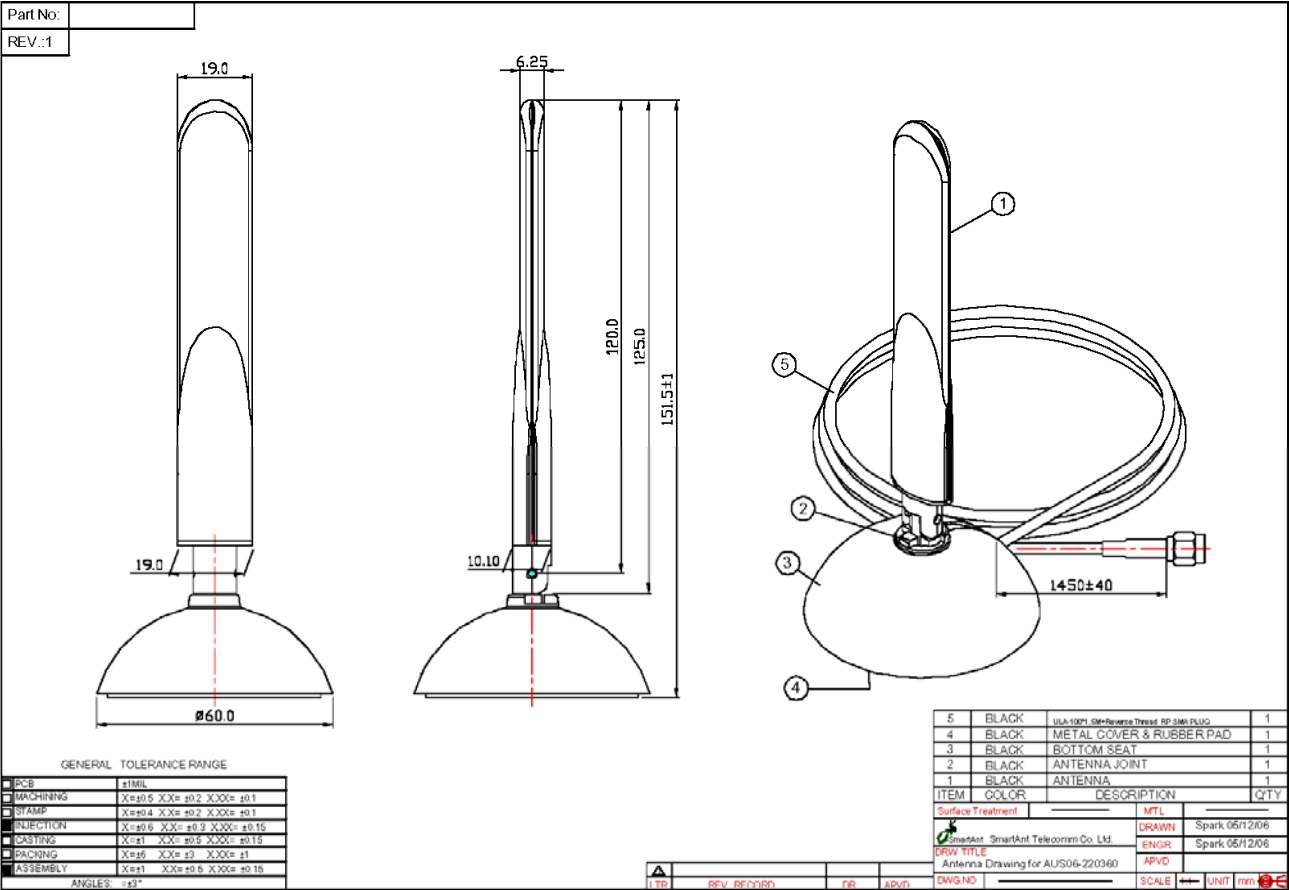
1A Antenna Part Number	1B Manufactur e	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
14G151039000SY (AUS06-220360) + CA20420137000 1658	SmartAnt (ASUStek) + Aliner	Dipole	50 ohm Coaxial. Length: 1.5 m Diameter: 2.6 mm Connector: Reverse Thread SMA PLUG	2400-2500MHz 1.1 dBi (peak)	2400-2500MHz 3.4 dBi (peak)	2400-2500MHz 1.6 max	2400-2500MHz 2.3 dBi (peak)
				5150-5350MHz 2.2 dBi (peak)	5150-5350MHz 5.9 dBi (peak)	5150-5350MHz 1.6 max	5150-5350MHz 3.7 dBi (peak)
				5470-5725MHz 2.3 dBi (peak)	5470-5725MHz 6.0 dBi (peak)	5470-5725MHz 1.7 max	5470-5725MHz 3.7 dBi (peak)
				5725-5850MHz 1.9 dBi (peak)	5725-5850MHz 5.7 dBi (peak)	5725-5850MHz 1.6 max	5725-5850MHz 3.8 dBi (peak)

Section 2. Dimensioned Photos or Drawings of Antennas

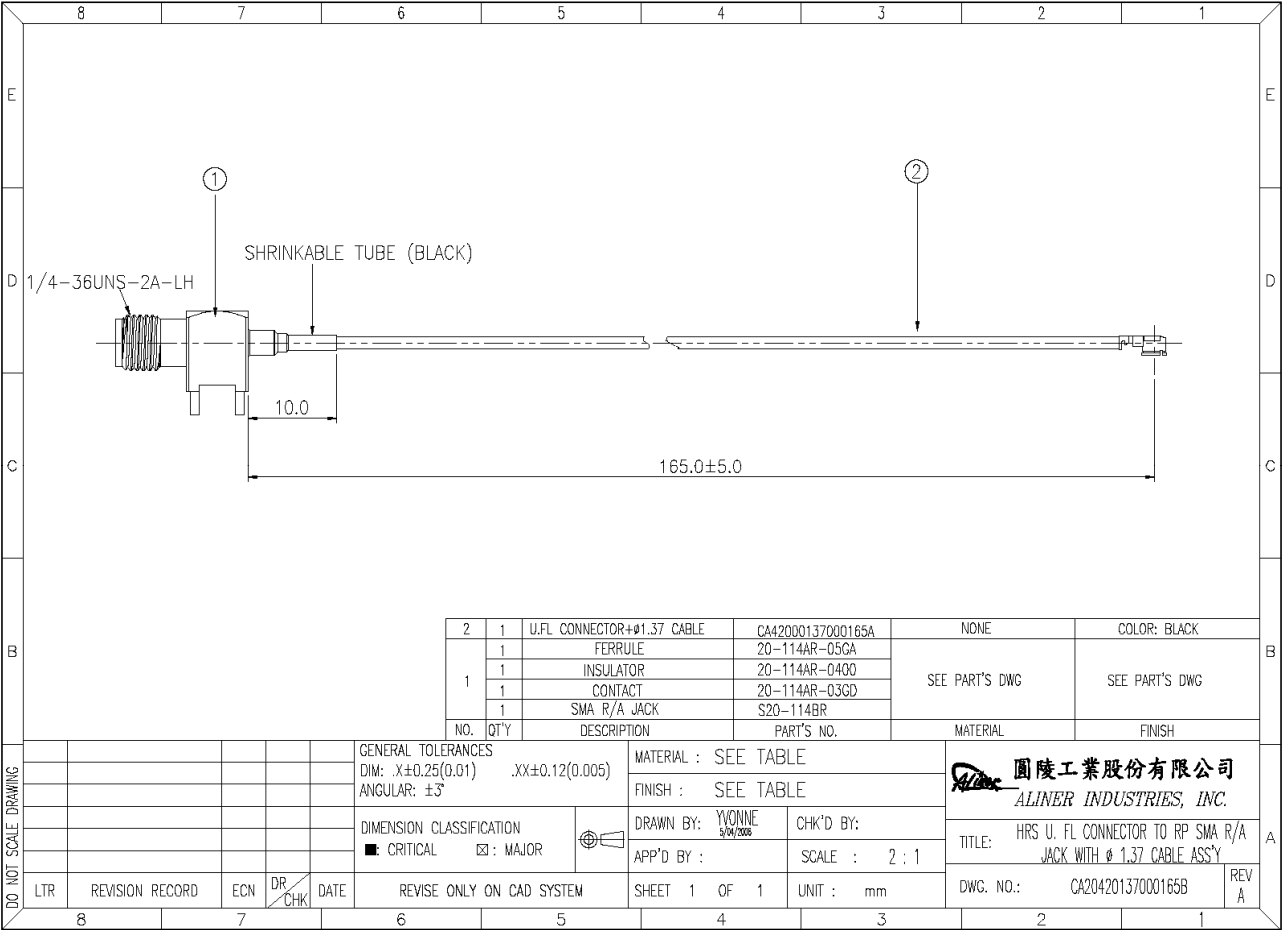
Include a dimensioned photo or dimensioned drawing of antenna here.



Part 1



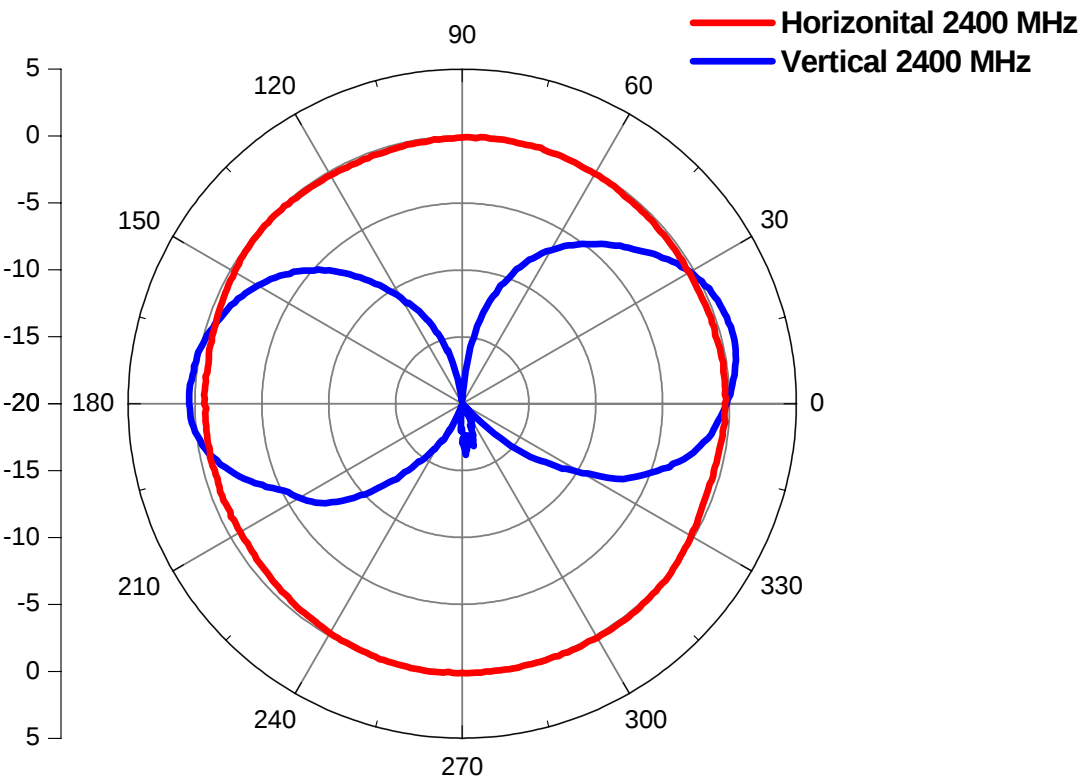
Part 2



Section 3. Radiation characteristics of antennae Loaded in Host Platform

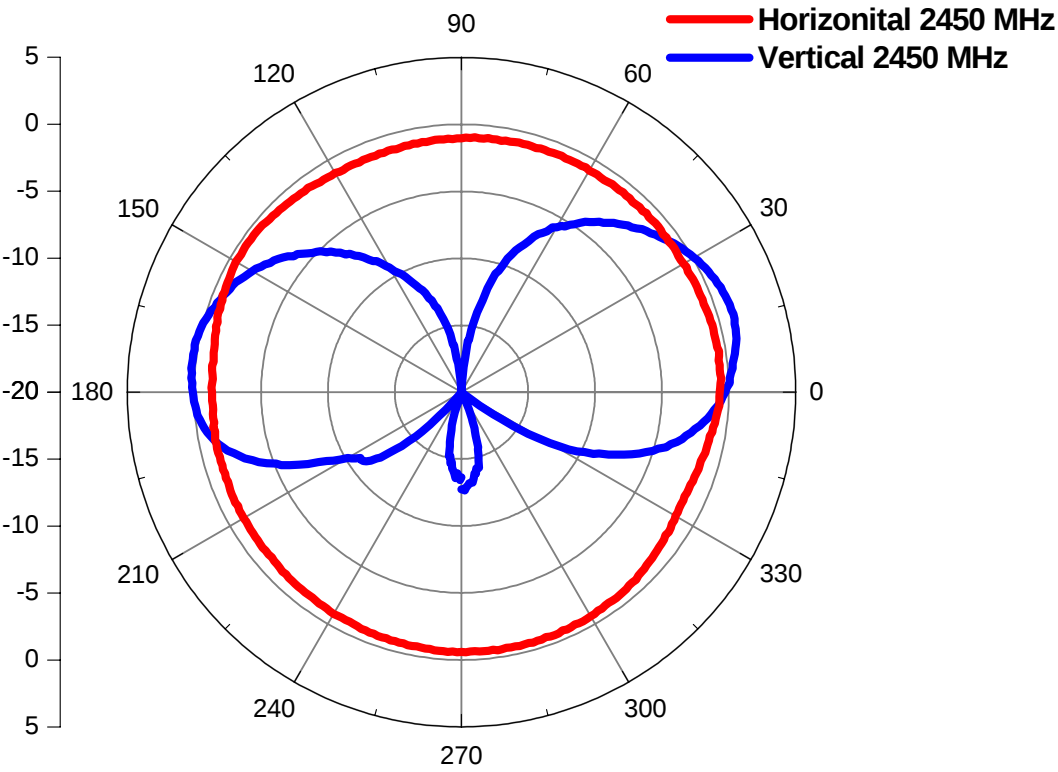
2400-2500MHz radiation characteristic

Antenna: 2400 MHz



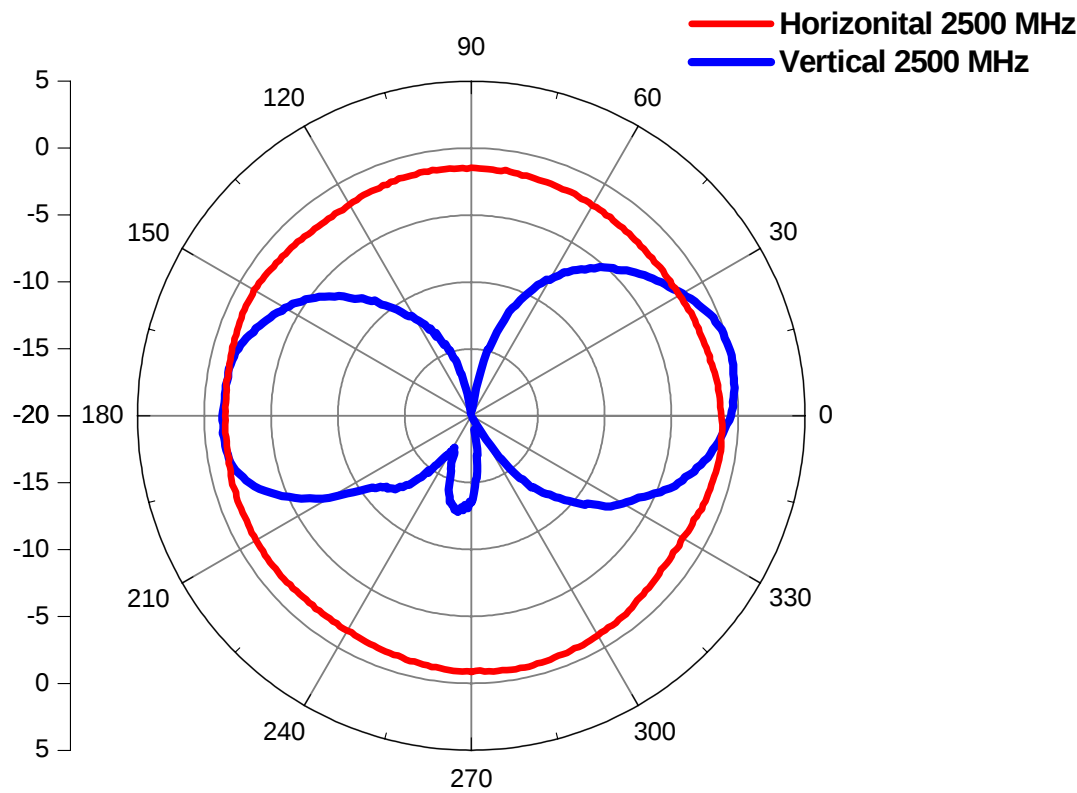
Center Frequency	2400 MHz
Horizontal (dBi) Peak	0.3 dBi
Horizontal (dBi) AVG.	-0.3 dBi
Vertical (dBi) Peak	0.9 dBi

Antenna: 2450 MHz



Center Frequency	2450 MHz
Horizontal (dBi) Peak	-0.5 dBi
Horizontal (dBi) AVG.	-0.9 dBi
Vertical (dBi) Peak	1.1 dBi

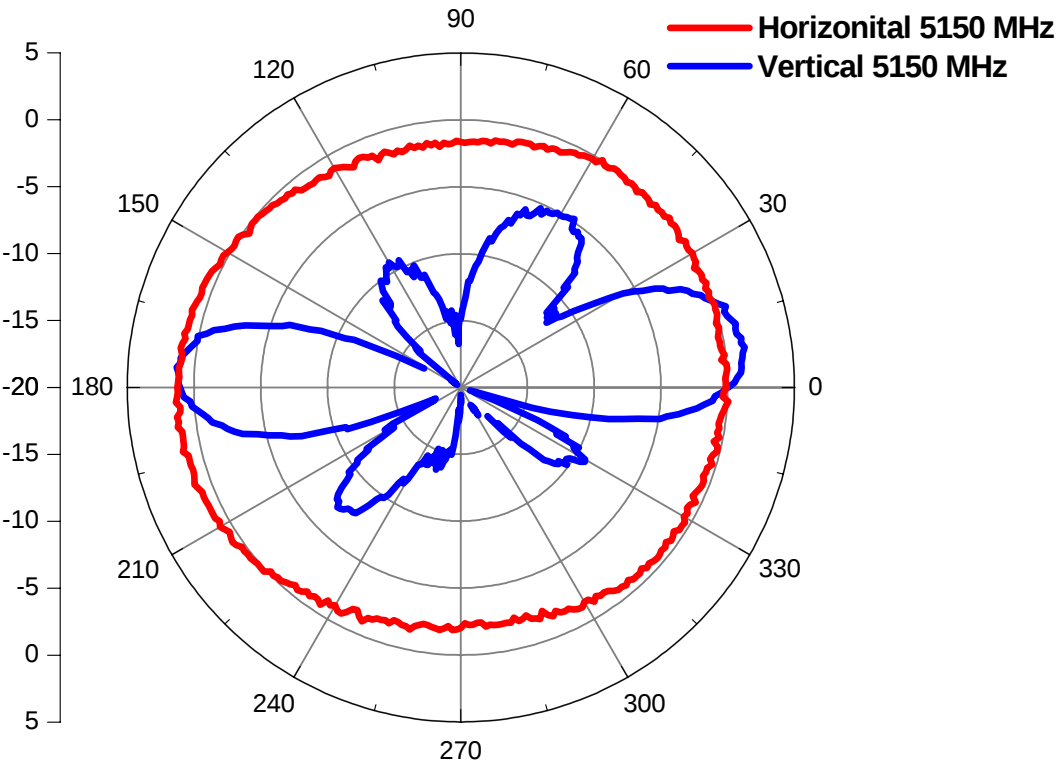
Antenna: 2500 MHz



Center Frequency	2500 MHz
Horizontal (dBi) Peak	-0.7 dBi
Horizontal (dBi) AVG.	-1.4 dBi
Vertical (dBi) Peak	0 dBi

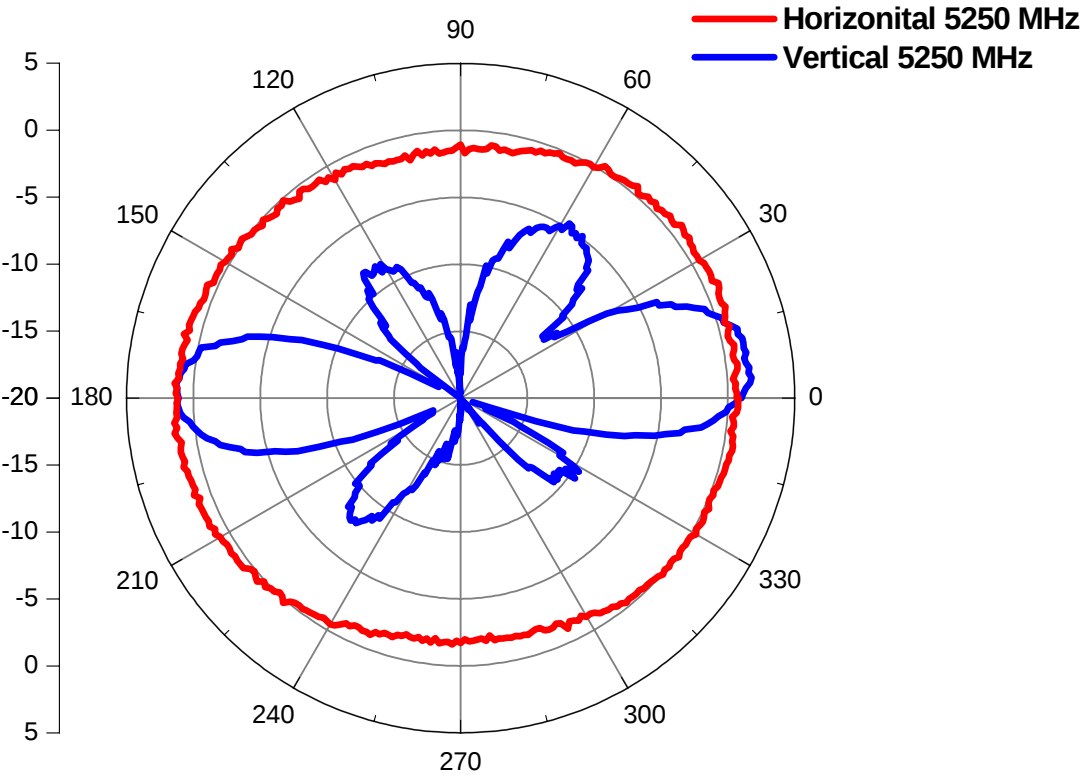
5150-5350 MHz radiation characteristic

Antenna: 5150 MHz



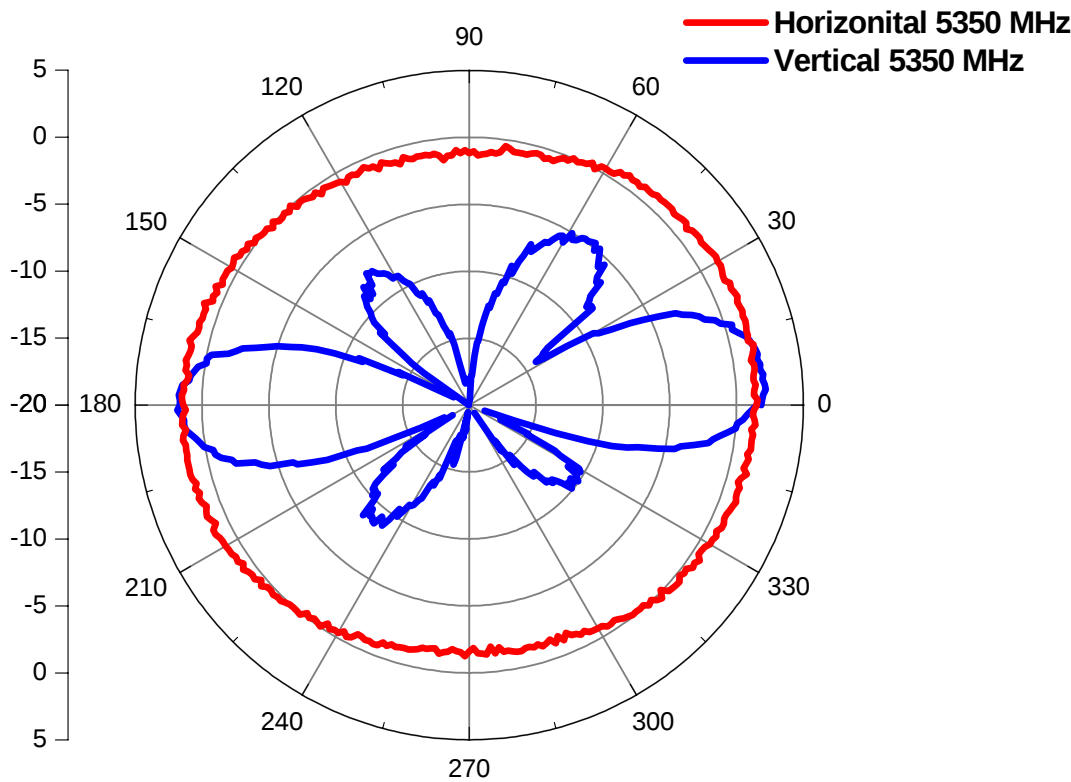
Center Frequency	5150 MHz
Horizontal (dBi) Peak	1.5 dBi
Horizontal (dBi) AVG.	-0.5 dBi
Vertical (dBi) Peak	1.5 dBi

Antenna: 5250 MHz



Center Frequency	5250 MHz
Horizontal (dBi) Peak	1.6 dBi
Horizontal (dBi) AVG.	0 dBi
Vertical (dBi) Peak	1.8 dBi

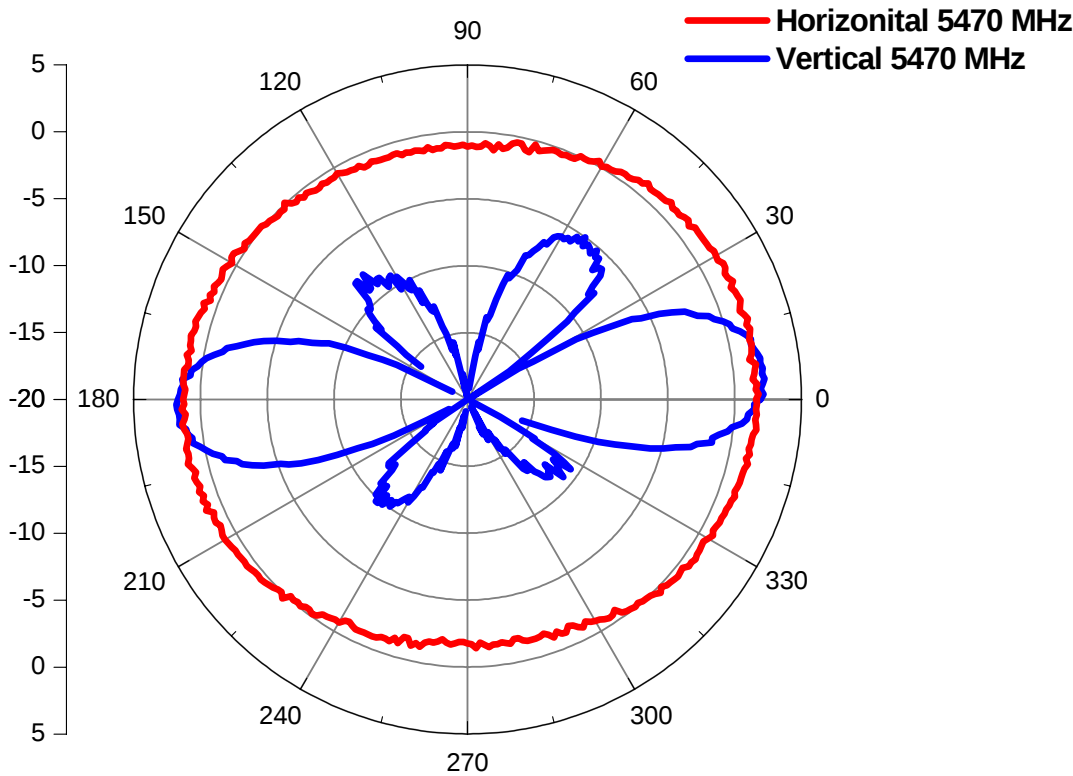
Antenna: 5350 MHz



Center Frequency	5350 MHz
Horizontal (dBi) Peak	1.7 dBi
Horizontal (dBi) AVG.	0.3 dBi
Vertical (dBi) Peak	2.2 dBi

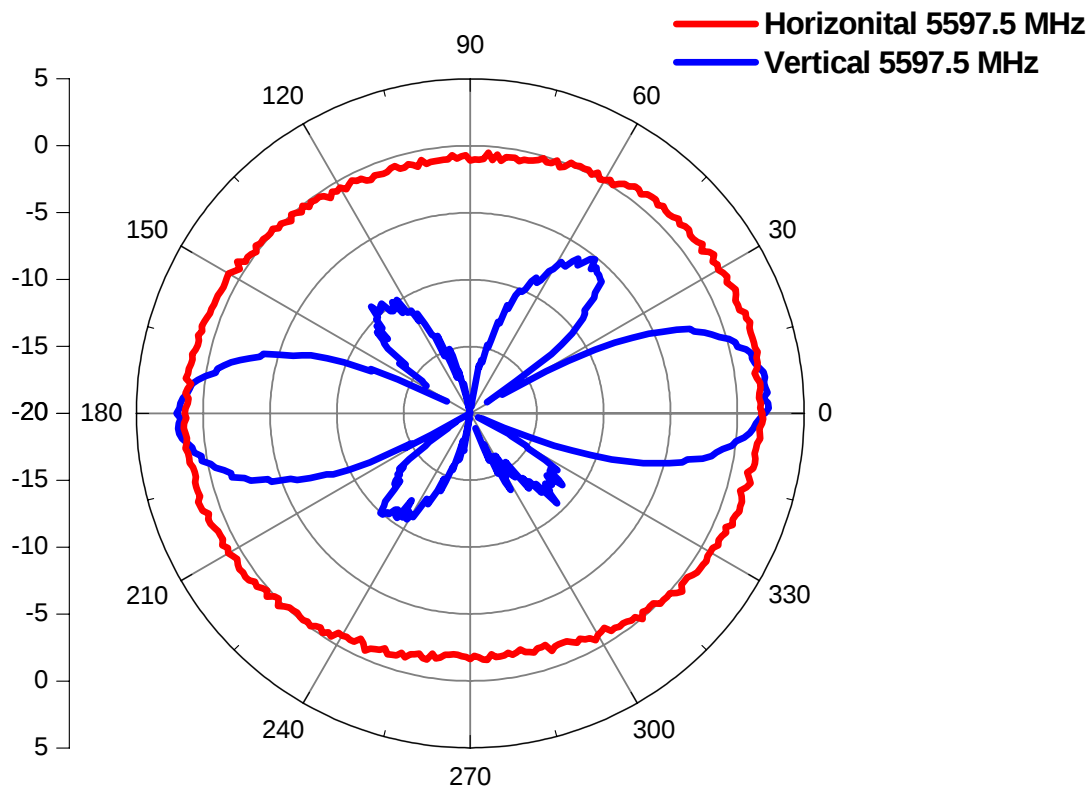
5470-5725MHz radiation characteristic

Antenna: 5470 MHz



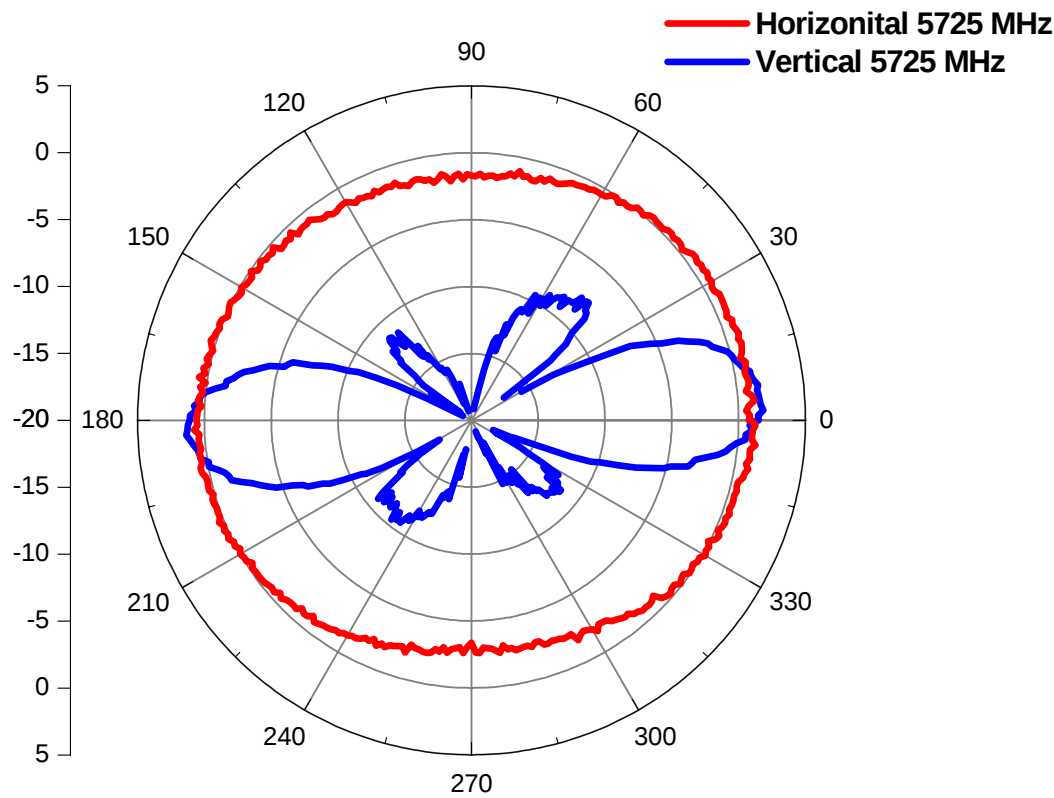
Center Frequency	5470 MHz
Horizontal (dBi) Peak	1.8 dBi
Horizontal (dBi) AVG.	0.3 dBi
Vertical (dBi) Peak	2.3 dBi

Antenna: 5597.5 MHz



Center Frequency	5597.5 MHz
Horizontal (dBi) Peak	2.1 dBi
Horizontal (dBi) AVG.	0.4 dBi
Vertical (dBi) Peak	2.3 dBi

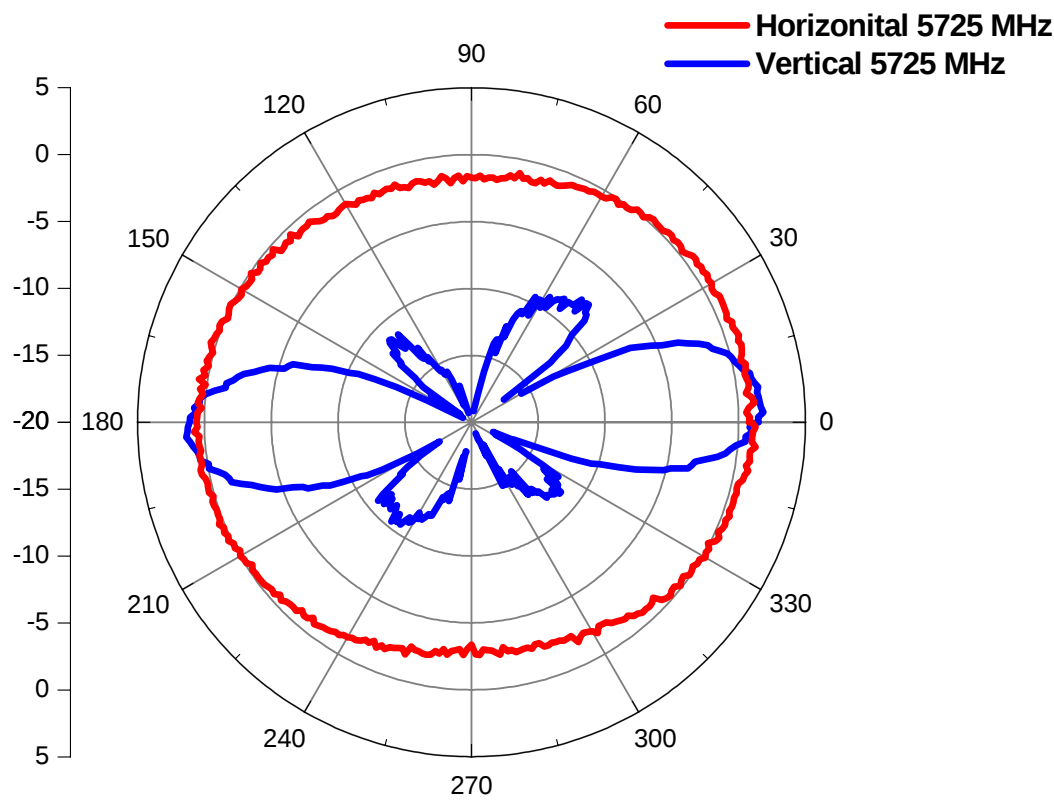
Antenna: 5725 MHz



Center Frequency	5725 MHz
Horizontal (dBi) Peak	1.4 dBi
Horizontal (dBi) AVG.	-0.5 dBi
Vertical (dBi) Peak	1.9 dBi

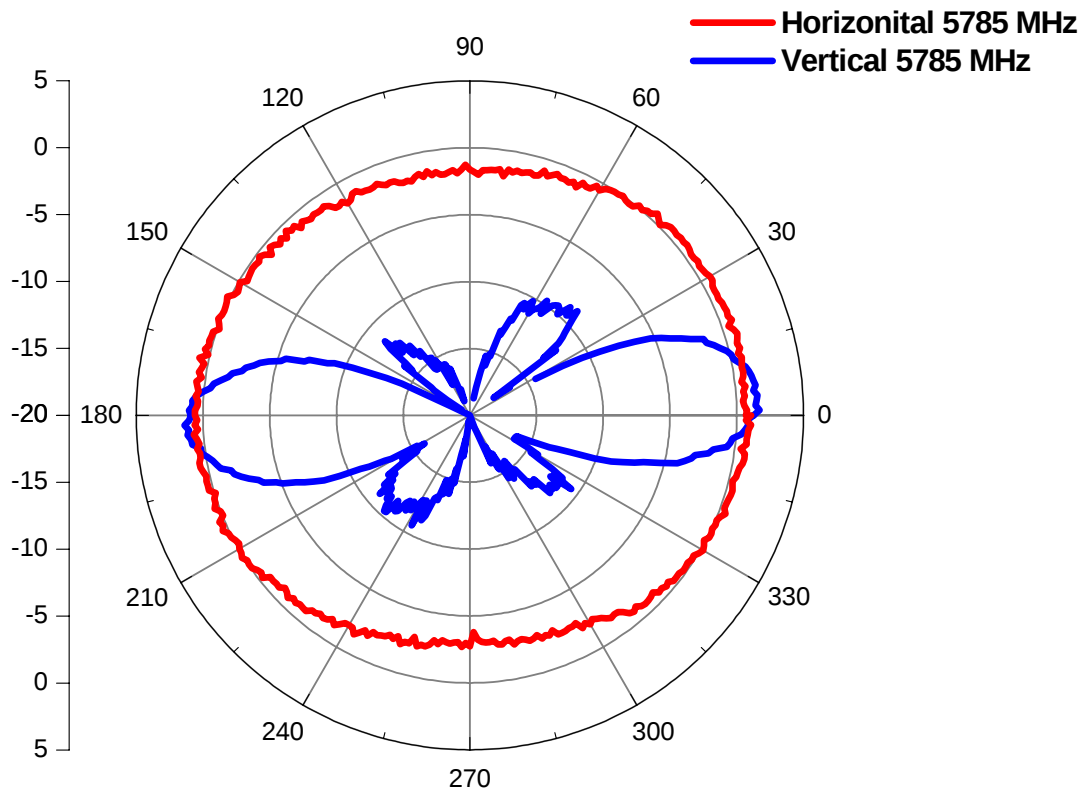
5725-5850 MHz radiation characteristic

Antenna: 5725 MHz



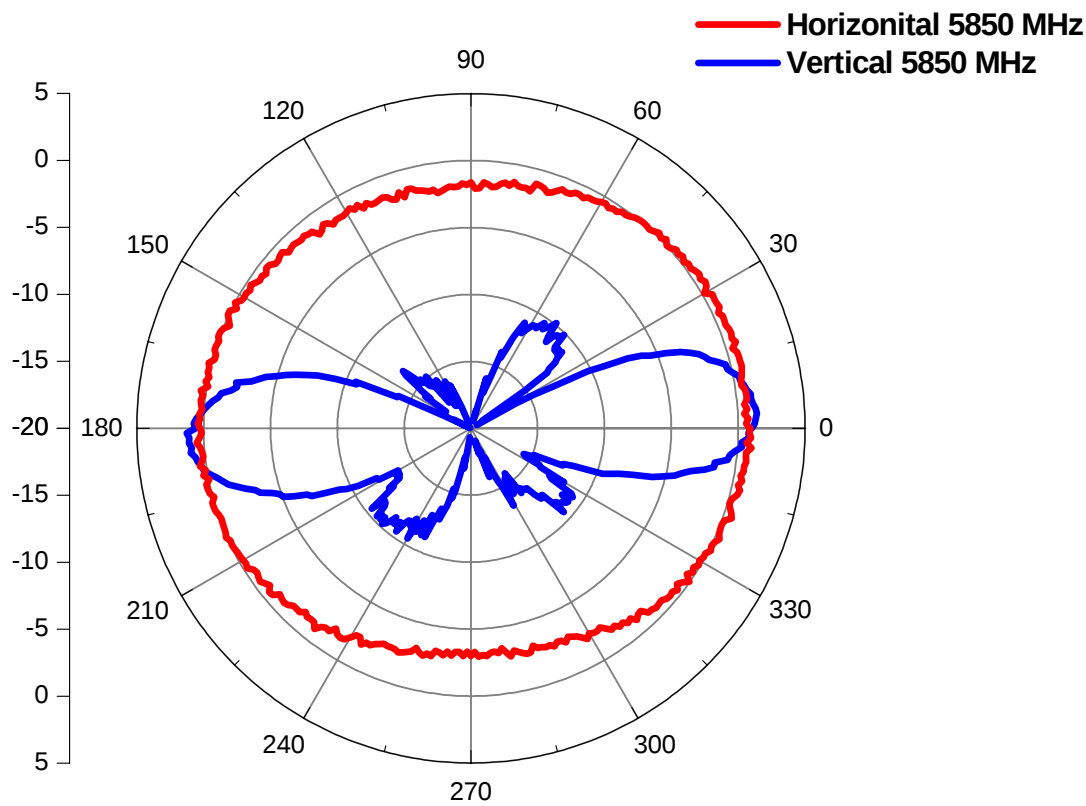
Center Frequency	5725 MHz
Horizontal (dBi) Peak	1.4 dBi
Horizontal (dBi) AVG.	-0.5 dBi
Vertical (dBi) Peak	1.9 dBi

Antenna: 5785 MHz



Center Frequency	5785 MHz
Horizontal (dBi) Peak	1.1 dBi
Horizontal (dBi) AVG.	-0.6 dBi
Vertical (dBi) Peak	1.7 dBi

Antenna: 5850 MHz



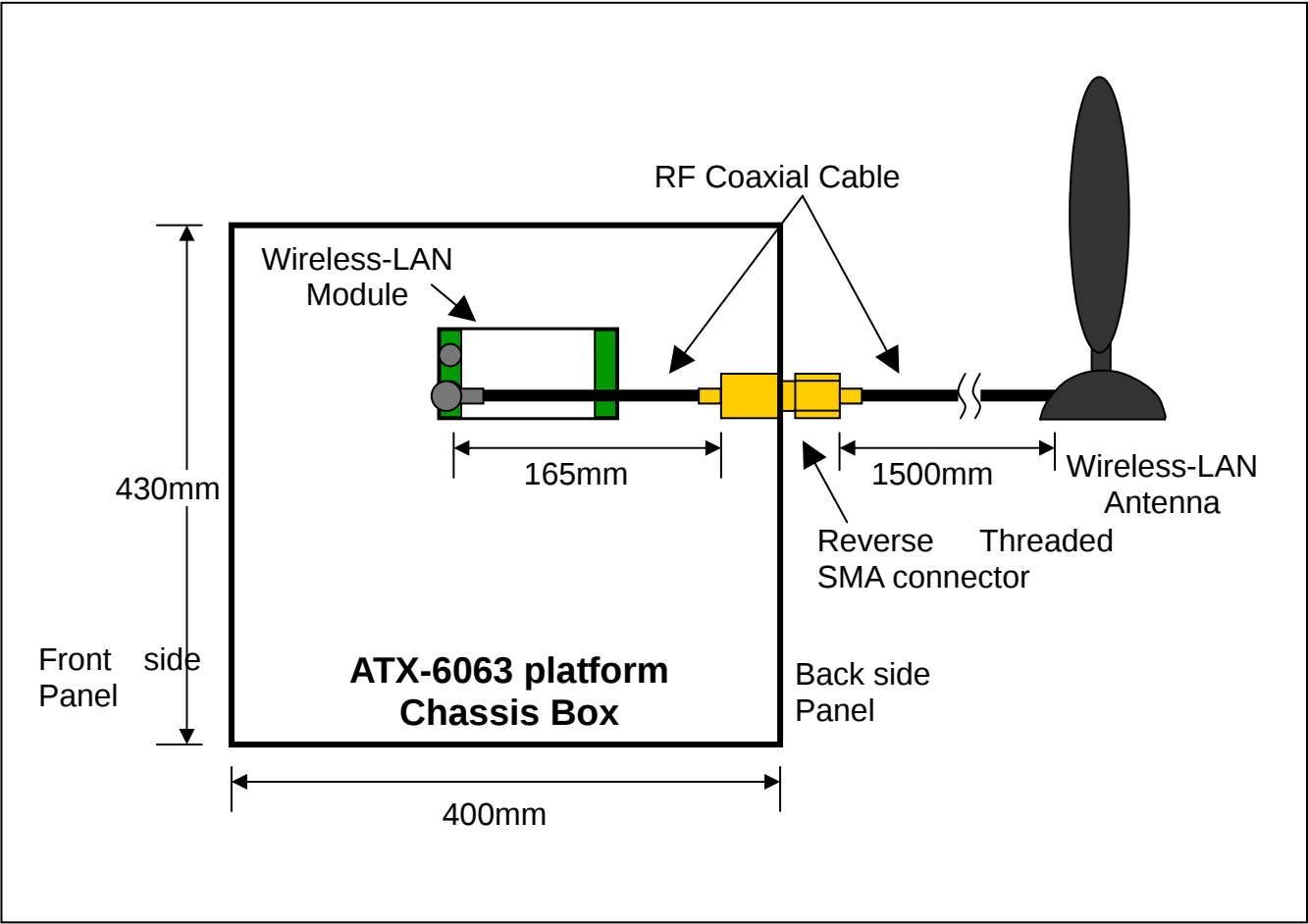
Center Frequency	5850 MHz
Horizontal (dBi) Peak	1.1 dBi
Horizontal (dBi) AVG.	-0.7 dBi
Vertical (dBi) Peak	1.4 dBi

Section 4. Host Platform Information

OEM / ODM Host platform: ATX-6063 platform doesn't correlate to antenna data, because the antenna is arranged externally.

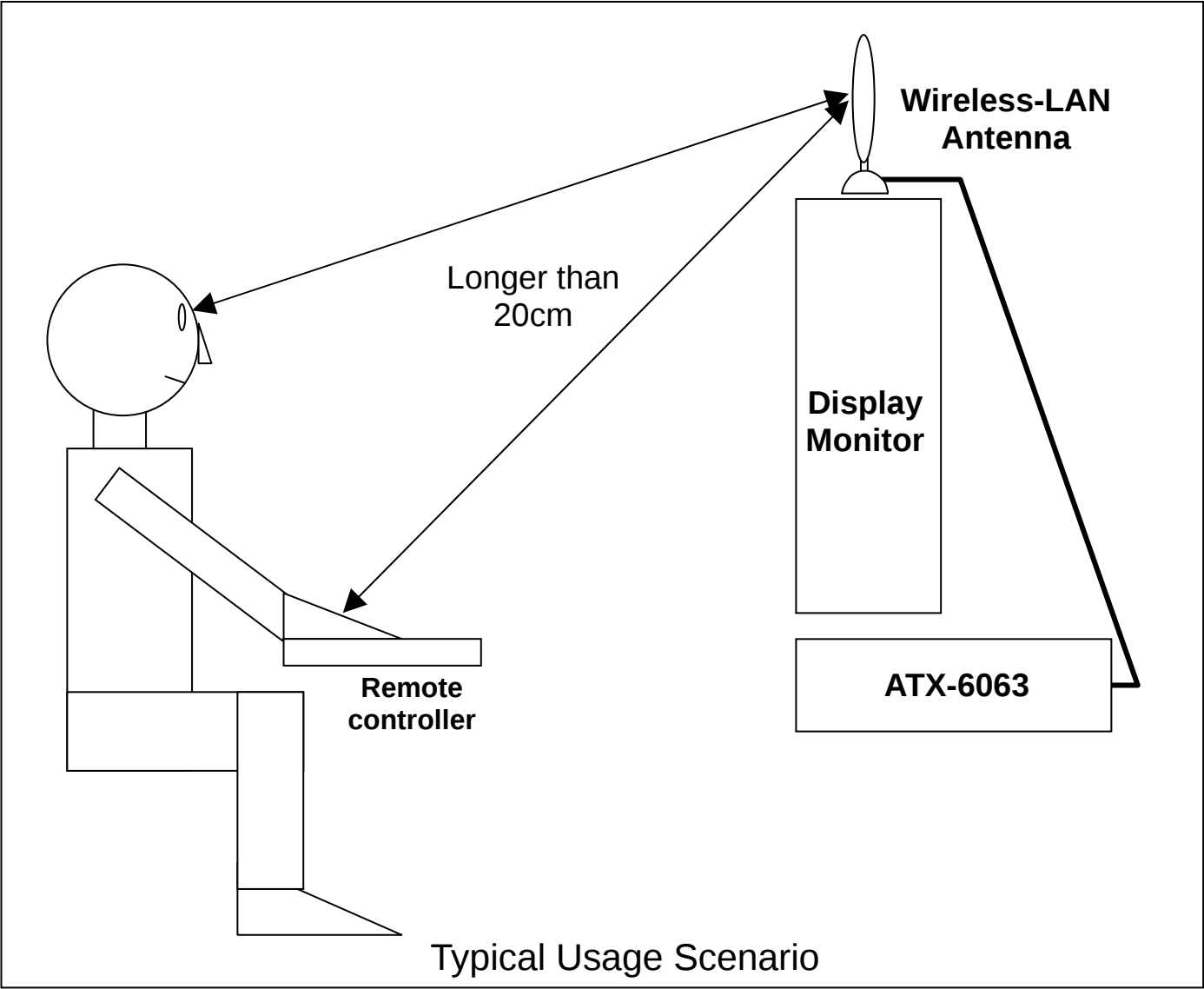
Section 5. Antenna Host Platform Location Information

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)

