

Regulatory WLAN Antenna Information

(English Language Required for Intel Regulatory Review / Approval)

(OEM/ODM or antenna vendor is required to complete this

document with platform antenna information.

Remove Intel references and make this your own document)

Platform information					
Brand	ODM	****End product model name	Intel platform (ex: Yes or No)	Platform Type (ex: regular NB, convertible PC, AIO...etc))	*SAR minimum separation (mm)
ASUS	NO	RC73XA	NO	Tablet	1.61

*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.

Antenna information			
Vendor	Type(Main/Aux)	Antenna Part number (Main)	Antenna Part number (Aux)
AWAN	PIFA	AYP6Y-100633	AYP6Y-100634

Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400- 2483.5MHz	5.2GHz 5150- 5250MHz	5.3GHz 5250- 5350MHz	5.6GHz 5470- 5725MHz	5.8GHz 5725- 5850MHz	5.9GHz 5850- 5895MHz	6.2GHz 5925- 6425MHz	6.5GHz 6425- 6525MHz	6.7GHz 6525- 6875MHz	7GHz 6875- 7125MHz
Main	1.75	1.94	1.25	2.56	3.20	3.20	2.36	2.36	2.28	1.72
Aux	1.59	1.47	1.47	1.83	2.59	2.59	2.38	1.81	2.50	1.68

Intel Reference Gain/Type/ Separation distance

Antenna Type	Antenna Peak gain (in dBi)											Distance to the end user(mm)
	2.4GHz 2400- 2483.5MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850- 5895MHz	6.2GHz 5925- 6425MHz	6.5GHz 6425- 6525MHz	6.7GHz 6525- 6875MHz	6.7GHz 6525- 6875MHz	7GHz 6875- 7125MHz	Generic sku: refer to modular FCC SAR report Mid-power sku: ≥ 8 Low power sku: ≥ 5
Design	3	5	5	5	5	5	5	5	5	5	5	
PIFA	3.18	4.92	4.92	4.92	4.92	4.92	4.76	4.29	4.61	4.61	4.09	
Dipole	2.42	3.87	3.87	3.87	3.87	3.87	3.93	3.61	3.61	3.61	3.14	

Notes (marked with •)

* SAR minimum separation (mm)

- Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device)

- Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device)

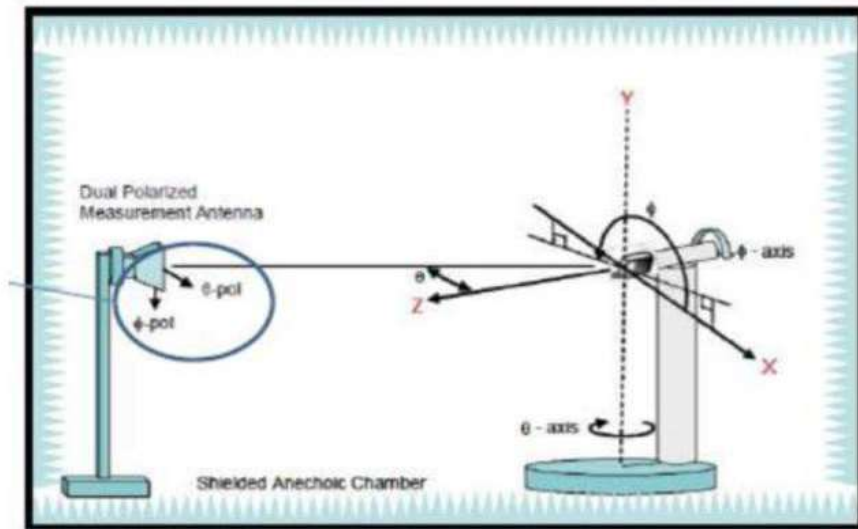
- Mini-tablet: Minimum antenna-to-edge (6 sides of the device)

* 3D Peak Antenna gain should be equal or greater than -2 dBi

- If a host integrator plans to use a lower gain antenna of the same type, additional CBP(FCC)/EDT(EU) testing need to be performed while the module is installed in the host.

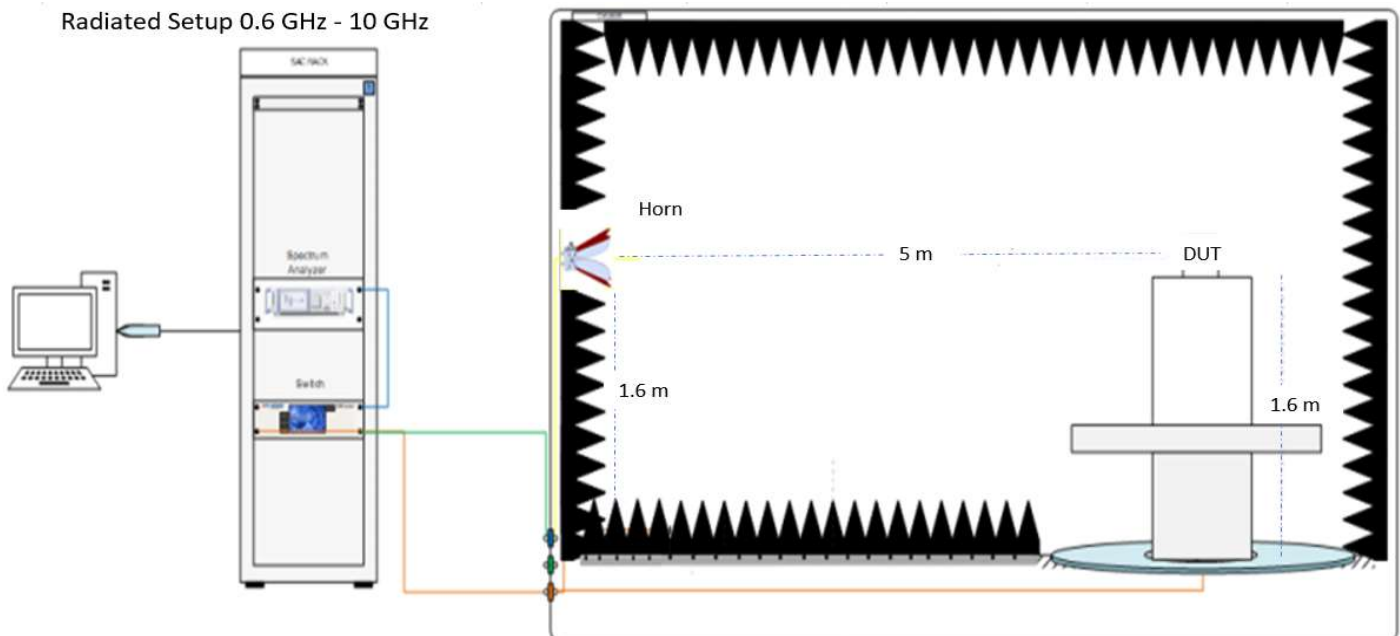
1. Applicable test methods

<insert test description here for test method>



2. Test & System Description

Radiated Setup 0.6 GHz - 10 GHz



Equipment List

Device	Type/Module	Serial#	Manufacturer	Cal. Date	Cal. Due Date
Anechoic Chamber	AMS-8500	1047	ETS-Lindgren	2024/2/21	2025/8/21
Turn Table	ETS	-	ETS-Lindgren	N/A	N/A
Rotate controller	2090	SN 00035073	ETS-Lindgren	N/A	N/A
Horn Antenna	HAD-0710	111025-02	Bwant	2023/3/16	2025/3/16
Vector Network Analyzer	E5071C	MY46733781	Keysight	2022/1/21	2025/1/21
Cable 40cm 18 GHz	201EH012010400	201EH012010400#1	Jmtt	2024/1/22	2025/1/27
Cable 6m 18 GHz	201EH012016000	201EH012016000#3	Jmtt	2024/1/22	2025/1/22
Cable 6m 18 GHz	201EH012016000	201EH012016000#5	Jmtt	2024/1/22	2025/1/22
Cable 3.5m 18 GHz	201EH012013500	201EH012013500#3	Jmtt	2024/1/22	2025/1/22
Cable 1.5m 18 GHz	201EH012011500	201EH012011500#2	Jmtt	2024/1/22	2025/1/22

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	1E Main, Aux & Tx3 antenna (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Main, Aux & Tx3 antenna (Peak Gain only) *	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Main, Aux & Tx3 antenna(Cable loss W/ connector) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs and Drawings of Main, Aux, and Tx3 (or Rx3) antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	Required	Desired	Required	Required	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. <u>(S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.</u>	Required	Required	Desired	Required (Photos)	Required (Photos)
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, 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
8	Local representative contact information for LMA/ PARS process.	Required	N/A	N/A	N/A	N/A

Antenna Information

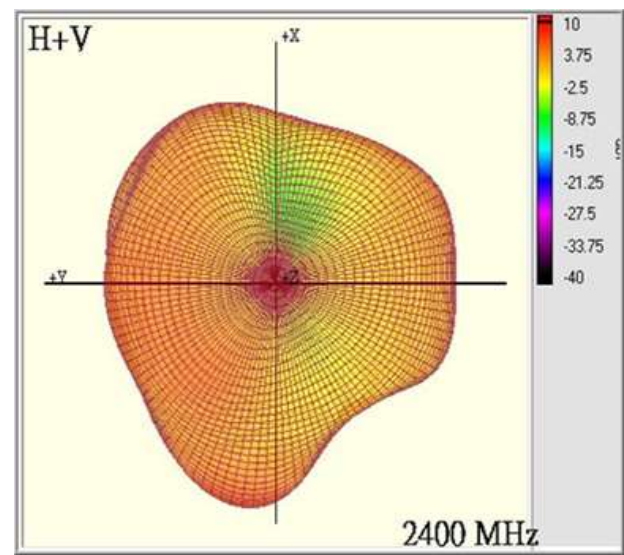
Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manu- facture	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
AYP6Y-100633 Main/Rx1 Antenna	AWAN	PIFA	50 ohm Coaxial Length: 115 mm Diamter: 1.13 mm Low loss Connector: IPEX 20565-001R-13	2400-2483.5	1.75 dBi, (peak)	2.02 dBi, (peak)	3 dBi, (peak)	0.27 dBi, (peak)
				5150-5250	1.94 dBi, (peak)	2.32 dBi, (peak)	3 dBi, (peak)	0.38 dBi, (peak)
				5250-5350	1.25 dBi, (peak)	1.65 dBi, (peak)	3 dBi, (peak)	0.40 dBi, (peak)
				5470-5725	2.56 dBi, (peak)	2.96 dBi, (peak)	3 dBi, (peak)	0.40 dBi, (peak)
				5725-5850	3.20 dBi, (peak)	3.61 dBi, (peak)	3 dBi, (peak)	0.41 dBi, (peak)
				5850-5895	3.20 dBi, (peak)	3.62 dBi, (peak)	3 dBi, (peak)	0.42 dBi, (peak)
				5925-6425	2.36 dBi, (peak)	2.79 dBi, (peak)	3 dBi, (peak)	0.43 dBi, (peak)
				6425-6525	2.36 dBi, (peak)	2.80 dBi, (peak)	3 dBi, (peak)	0.44 dBi, (peak)
				6525-6875	2.28 dBi, (peak)	2.73 dBi, (peak)	3 dBi, (peak)	0.45 dBi, (peak)
				6875-7125	1.72 dBi, (peak)	2.18 dBi, (peak)	3 dBi, (peak)	0.46 dBi, (peak)
1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
AYP6Y-100634 Aux/Rx2 Antenna	AWAN	PIFA	50 ohm Coaxial Length: 170 mm Diamter: 1.13 mm Low loss Connector: IPEX 20565-001R-13	2400-2483.5	1.59 dBi, (peak)	1.98 dBi, (peak)	3 dBi, (peak)	0.39 dBi, (peak)
				5150-5250	1.47 dBi, (peak)	2.03 dBi, (peak)	3 dBi, (peak)	0.56 dBi, (peak)
				5250-5350	1.47 dBi, (peak)	2.06 dBi, (peak)	3 dBi, (peak)	0.59 dBi, (peak)
				5470-5725	1.83 dBi, (peak)	2.43 dBi, (peak)	3 dBi, (peak)	0.60 dBi, (peak)
				5725-5850	2.59 dBi, (peak)	3.20 dBi, (peak)	3 dBi, (peak)	0.61 dBi, (peak)
				5850-5895	2.59 dBi, (peak)	3.21 dBi, (peak)	3 dBi, (peak)	0.62 dBi, (peak)
				5925-6425	2.38 dBi, (peak)	3.01 dBi, (peak)	3 dBi, (peak)	0.63 dBi, (peak)
				6425-6525	1.81 dBi, (peak)	2.46 dBi, (peak)	3 dBi, (peak)	0.65 dBi, (peak)
				6525-6875	2.50 dBi, (peak)	3.16 dBi, (peak)	3 dBi, (peak)	0.66 dBi, (peak)
				6875-7125	1.68 dBi, (peak)	2.36 dBi, (peak)	3 dBi, (peak)	0.68 dBi, (peak)

Section 3. Radiation characteristics of antennae Loaded in Host Platform

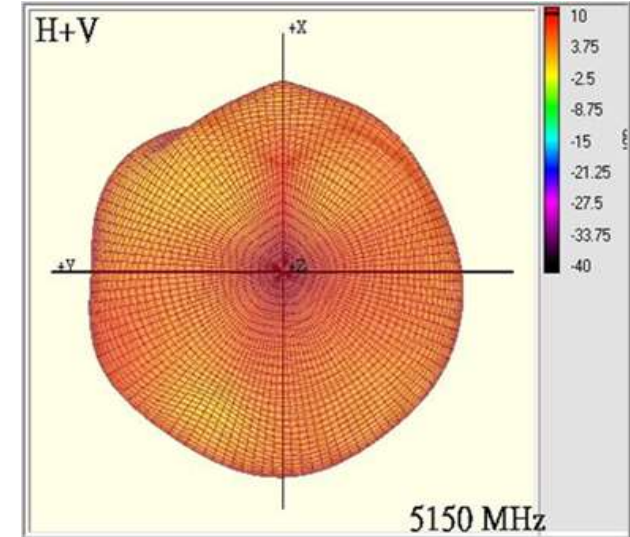
Max Antenna

Max Antenna 3D Radiation Pattern 2400-2483.5 MHz



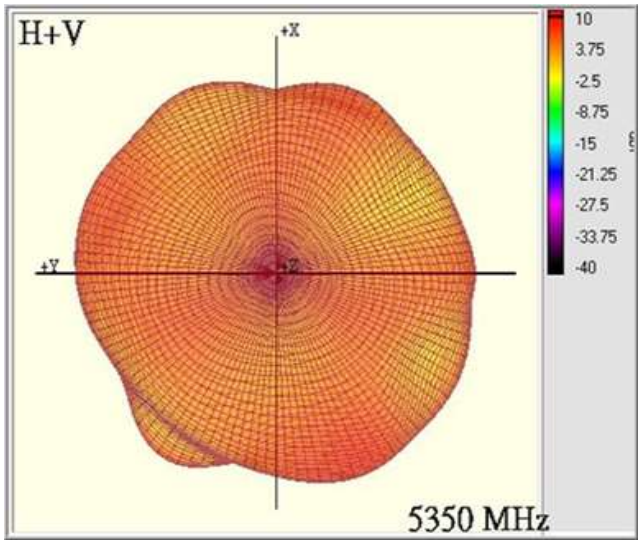
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.75

Max Antenna 3D Radiation Pattern 5150-5250 MHz



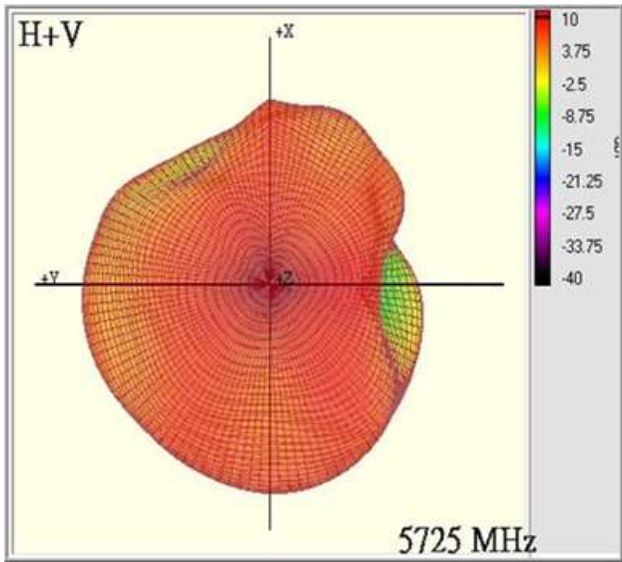
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.94

Max Antenna 3D Radiation Pattern 5250-5350 MHz



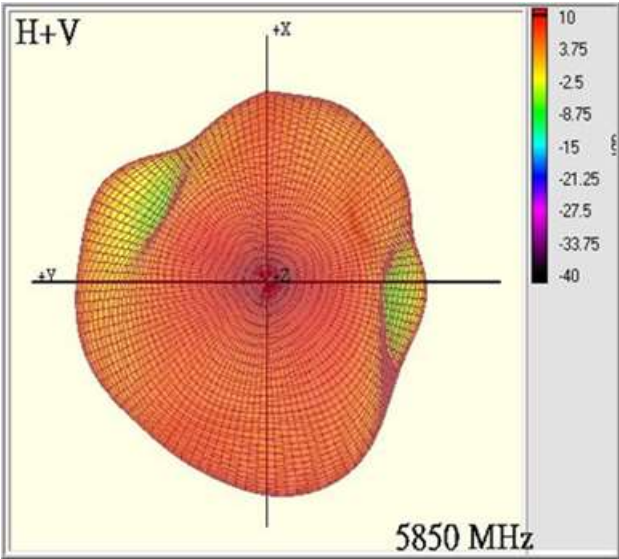
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	1.25

Max Antenna 3D Radiation Pattern 5470-5725 MHz



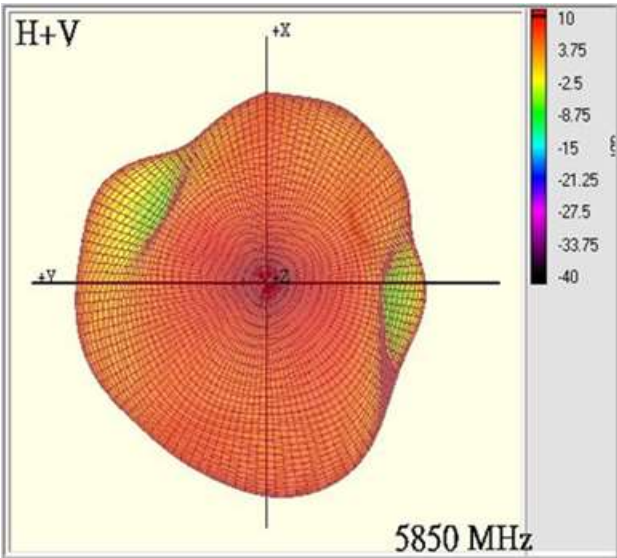
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.56

Max Antenna 3D Radiation Pattern 5725-5850 MHz



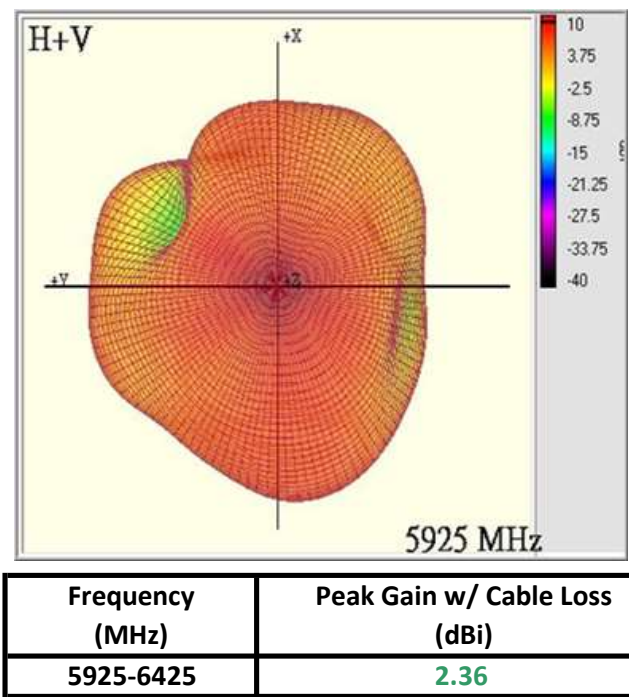
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.20

Max Antenna 3D Radiation Pattern 5850-5895 MHz

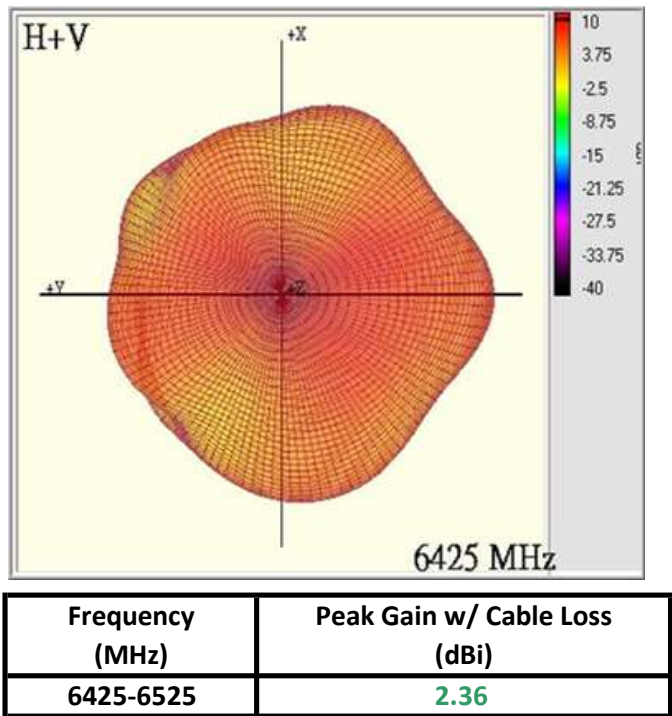


Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.20

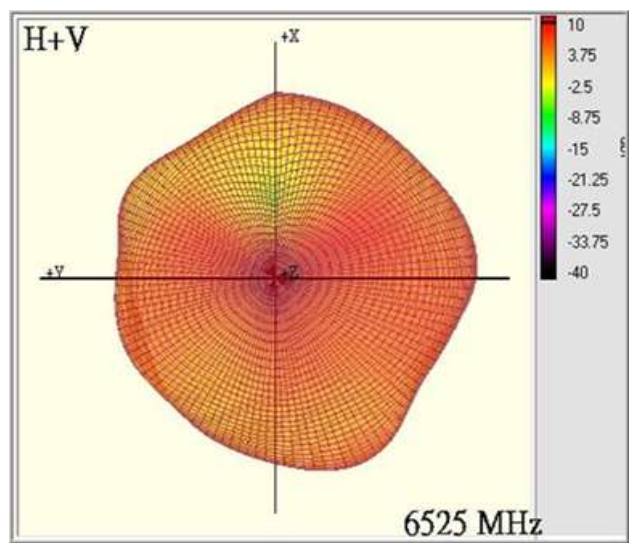
Max Antenna 3D Radiation Pattern 5925-6425 MHz



Max Antenna 3D Radiation Pattern 6425-6525 MHz

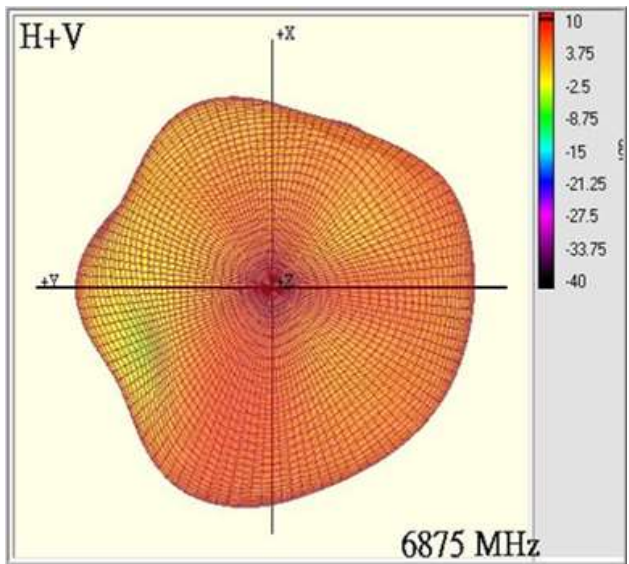


Max Antenna 3D Radiation Pattern 6525-6875 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.28

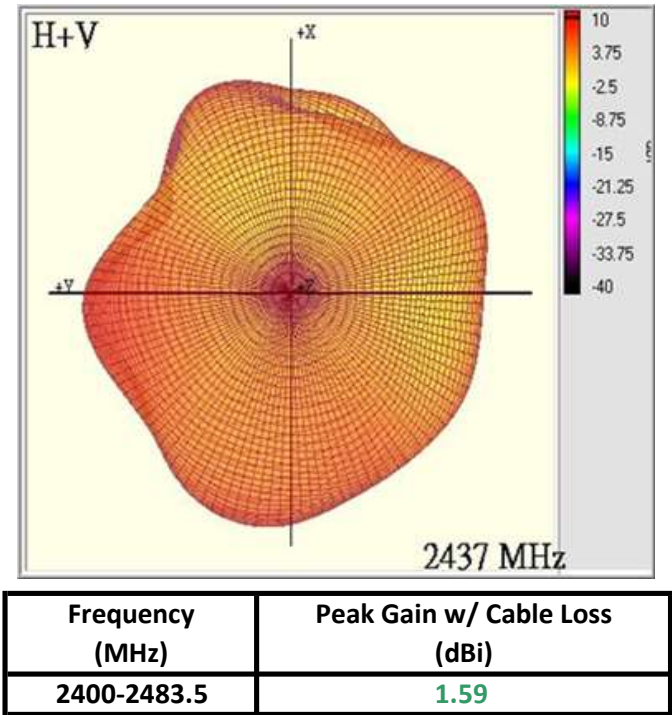
Max Antenna 3D Radiation Pattern 6875-7125 MHz



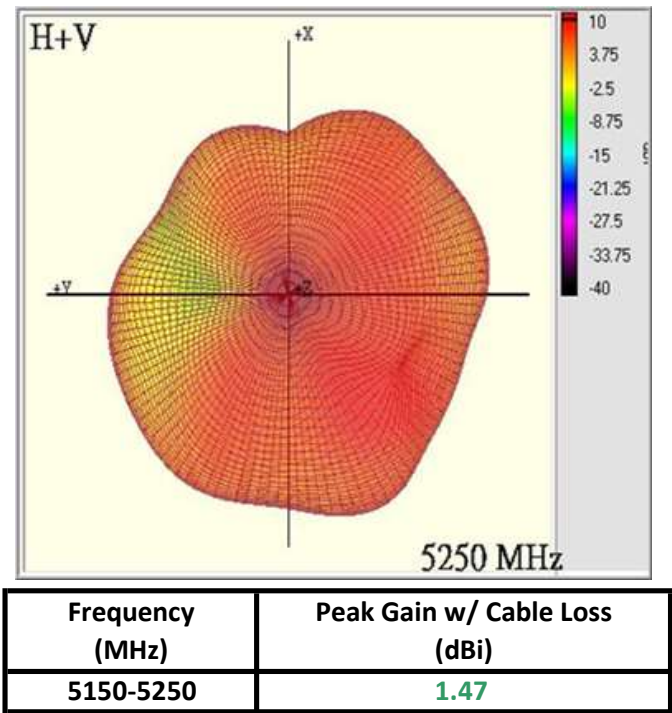
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	1.72

Auxiliary Antenna

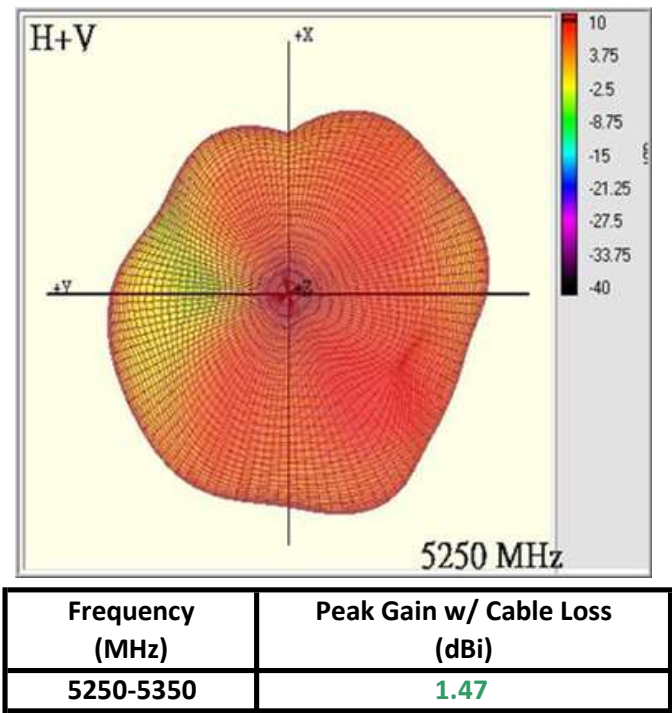
Max Antenna 3D Radiation Pattern 2400-2483.5 MHz



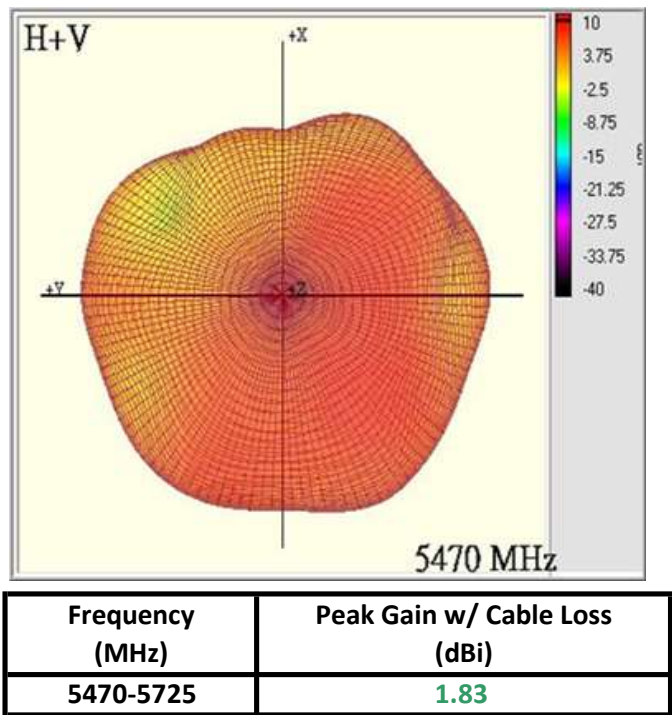
Max Antenna 3D Radiation Pattern 5150-5250 MHz



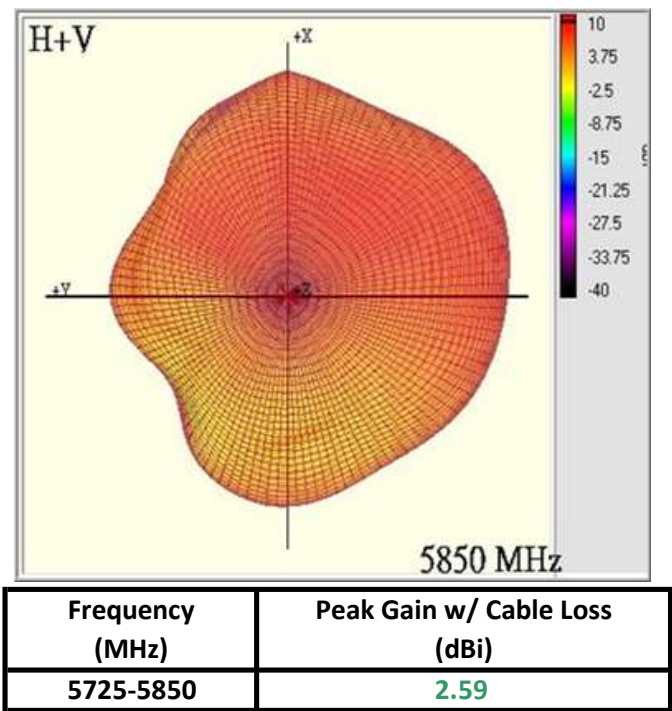
Max Antenna 3D Radiation Pattern 5250-5350 MHz



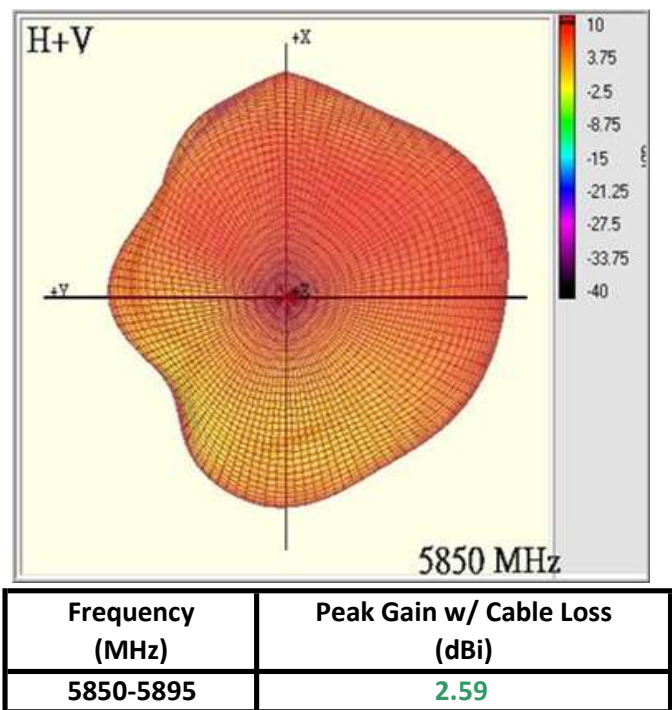
Max Antenna 3D Radiation Pattern 5470-5725 MHz



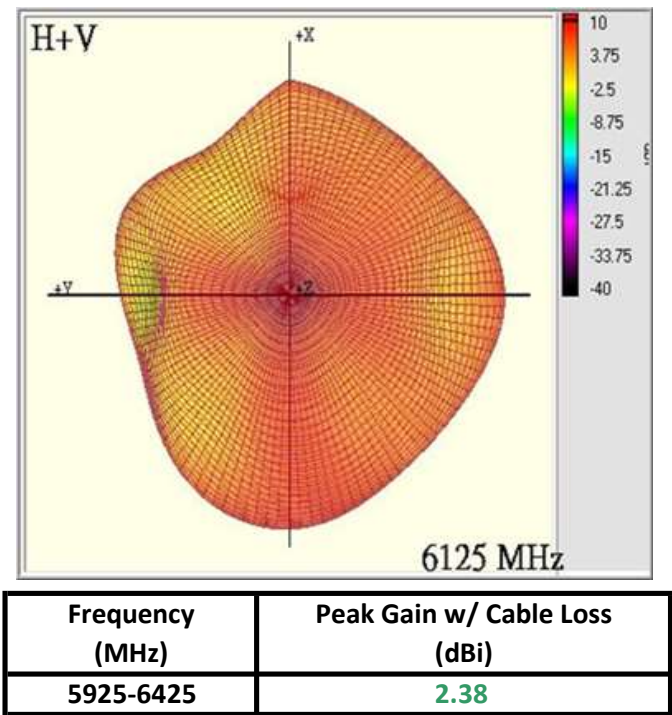
Max Antenna 3D Radiation Pattern 5725-5850 MHz



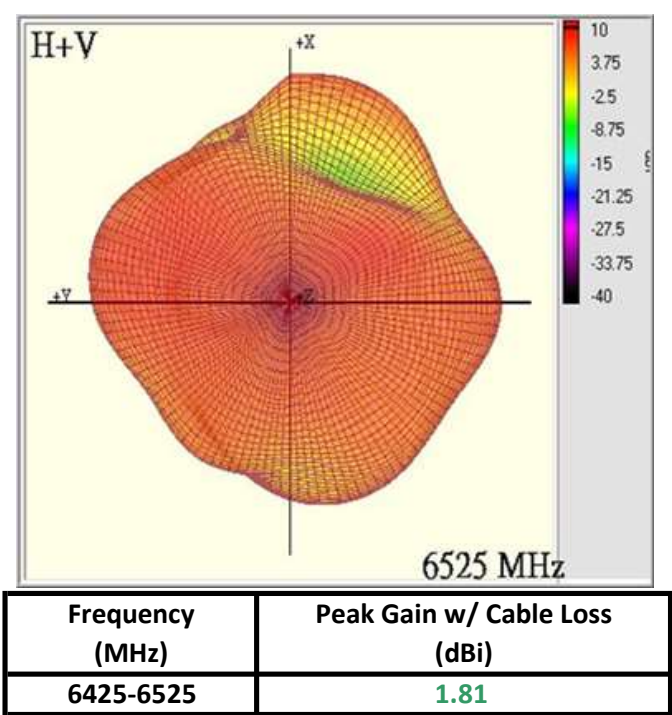
Max Antenna 3D Radiation Pattern 5850-5895 MHz



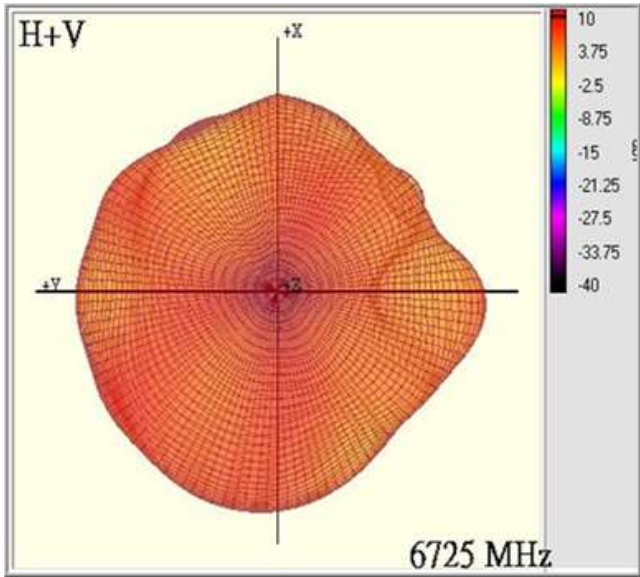
Max Antenna 3D Radiation Pattern 5925-6425 MHz



Max Antenna 3D Radiation Pattern 6425-6525 MHz

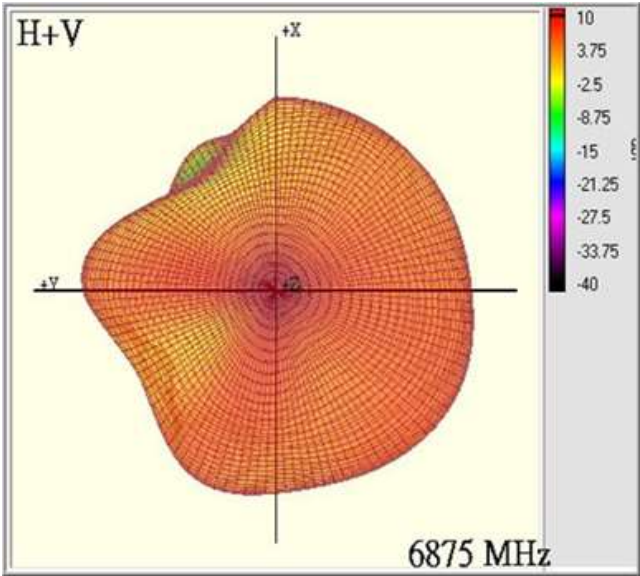


Max Antenna 3D Radiation Pattern 6525-6875 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.50

Max Antenna 3D Radiation Pattern 6875-7125 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	1.68