

Regulatory WLAN Antenna Information

Platform information							
Brand	ODM	Platform model name	Platform type (ex: regular NB, convertible PC, AIO...etc)	SAR minimum separation (mm)			
	Inventec	Aim8	Tablet	mm			
Antenna information				Peak gain w/ cable loss (dBi)			
Vendor	Type	Antenna Part number (Main)	Antenna Part number (Aux)	2.4GHz	5.2GHz	5.5GHz	5.8GHz
YAGEO	PIFA	6036B0192301 (ANTA0ZV11661WLAN1)		0.37	-2.06	-0.53	-1.24
Module information (Pls check with "x" when applies)							
Model	Form factor and suffixes (NGW/ HMW AND AN/ NB/ BN....)						

**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	Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Tx1, Tx2 & Tx3 antenna (Peak Gain only) *	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs <u>and</u> Drawings of Tx1, Tx2, 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</u>). <u>Taiwan requires pictures of each antenna type shown in the system</u> .	Required	Required	Desired	<u>Required (Photos)</u>	<u>Required (Photos)</u>
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 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)
Customer P/N: 6036B0192301 YAGEO P/N: ANTA0ZV11661WLAN1 Tx1 Main Antenna	Yageo Corporation	PIFA	Connector: IPEX (20565) or compatible. Cable: KB(RF1.13LLS) or compatible 50 ohm Coaxial. Length: 83 mm diameter: 1.13 mm	2400-2500MHz	2400-2500MHz	2400-2500MHz	2400-2500MHz
				0.37 dBi(peak)	0.59 dBi(peak)	3.00 max	0.22 dBi(peak)
				5150-5350MHz	5150-5350MHz	5150-5350MHz	5150-5350MHz
				-0.93 dBi(peak)	-0.6 dBi(peak)	3.00 max	0.33 dBi(peak)
				5470-5725MHz	5470-5725MHz	5470-5725MHz	5470-5725MHz
				-0.53 dBi(peak)	-0.18 dBi(peak)	3.00 max	0.35 dBi(peak)
Customer P/N: YAGEO P/N: Tx2 Aux Antenna	Yageo Corporation	PIFA	Connector: dBi(peak) Cable: dBi(peak) 50 ohm Coaxial. Length: mm diameter: mm	2400-2500MHz	2400-2500MHz	2400-2500MHz	2400-2500MHz
				dBi(peak)	dBi(peak)	3.00 max	dBi(peak)
				5150-5350MHz	5150-5350MHz	5150-5350MHz	5150-5350MHz
				dBi(peak)	dBi(peak)	3.00 max	dBi(peak)
				5470-5725MHz	5470-5725MHz	5470-5725MHz	5470-5725MHz
				dBi(peak)	dBi(peak)	3.00 max	dBi(peak)
Customer P/N: YAGEO P/N: Tx2 Aux Antenna	Yageo Corporation	PIFA	Length: mm diameter: mm	5725-5875MHz	5725-5875MHz	5725-5875MHz	5725-5875MHz
				dBi(peak)	dBi(peak)	3.00 max	dBi(peak)
				5725-5875MHz	5725-5875MHz	5725-5875MHz	5725-5875MHz
				dBi(peak)	dBi(peak)	3.00 max	dBi(peak)
				5725-5875MHz	5725-5875MHz	5725-5875MHz	5725-5875MHz
				dBi(peak)	dBi(peak)	3.00 max	dBi(peak)

- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V

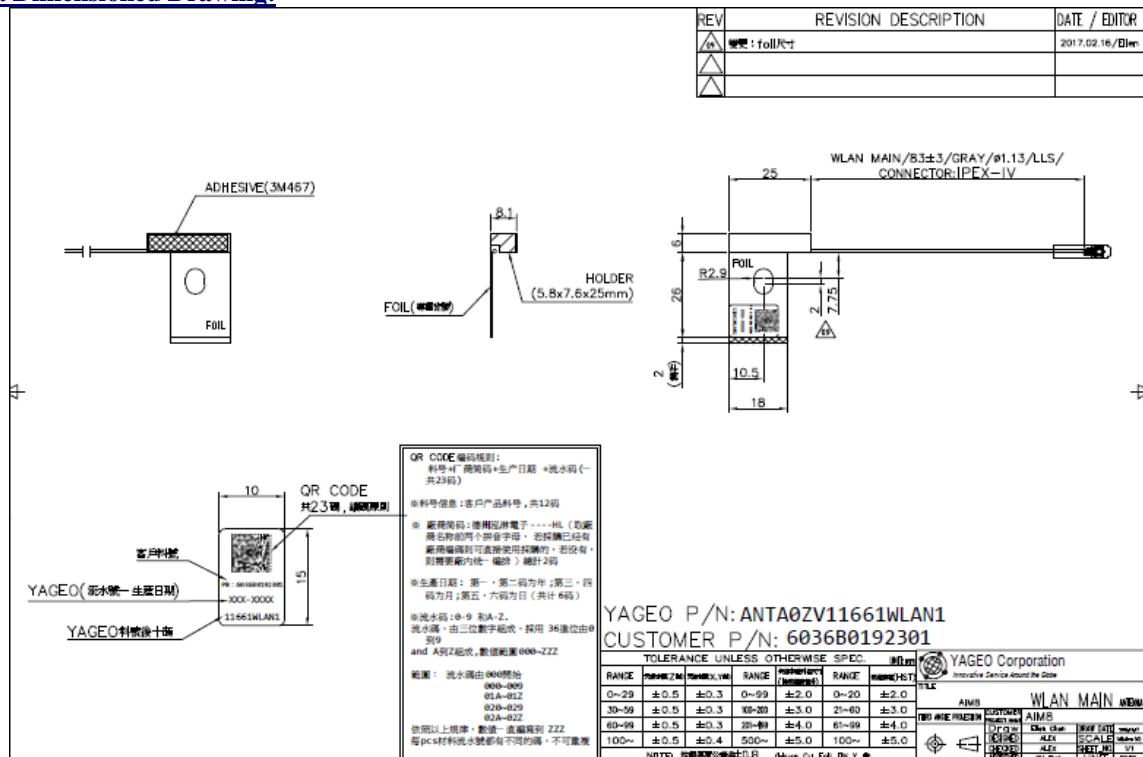
Antenna Peak Gain Table:

Frequency (MHz)	Tx1 antenna	
	Horizontal (dBi)	Vertical (dBi)
2400	-0.24	0.37
2450	-0.14	0.11
2500	-1.55	0.89
5150	-1.85	-2.29
5250	-2.06	-2.32
5350	-1.9	-0.93
5470	-1.03	-0.73
5600	-0.6	-0.53
5725	-1.5	-1.54
5785	-1.24	-1.33
5850	-1.3	-1.64

Section 2. Dimensioned Photos or Drawings of Antennas

Include a dimensioned photo and dimensioned drawing of Tx1 antenna here.

Tx1 Antenna Dimensioned Drawing:



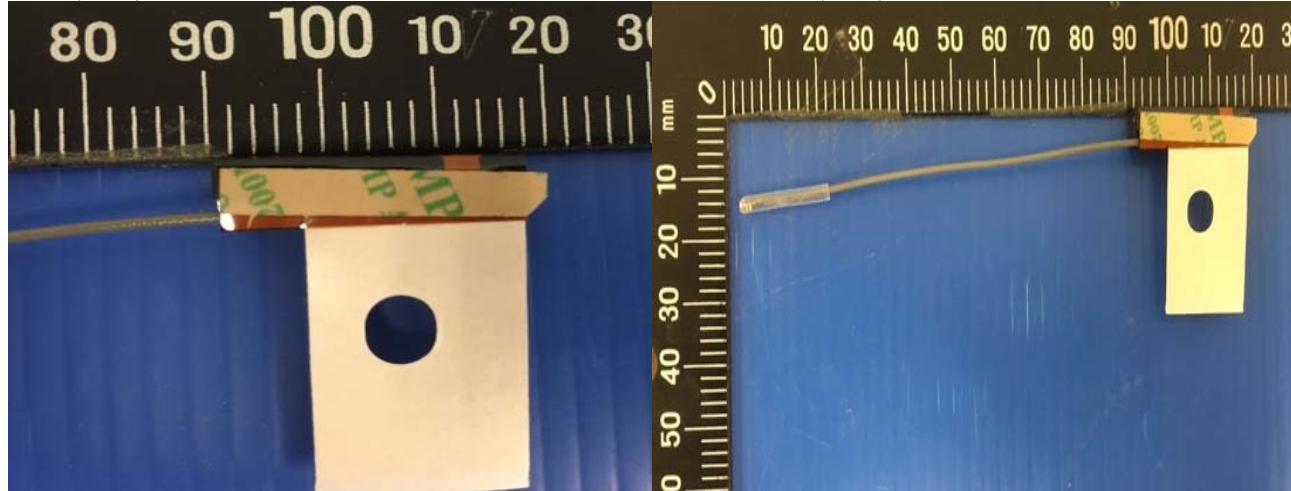
Tx1 Antenna Photo:

Main (Front)-Near



Main (Front)-Far

Main (Back)-Near



Main (Back)-Far

Include front view photo of all antennas here

Antenna Manufacturer: Yageo Corporation

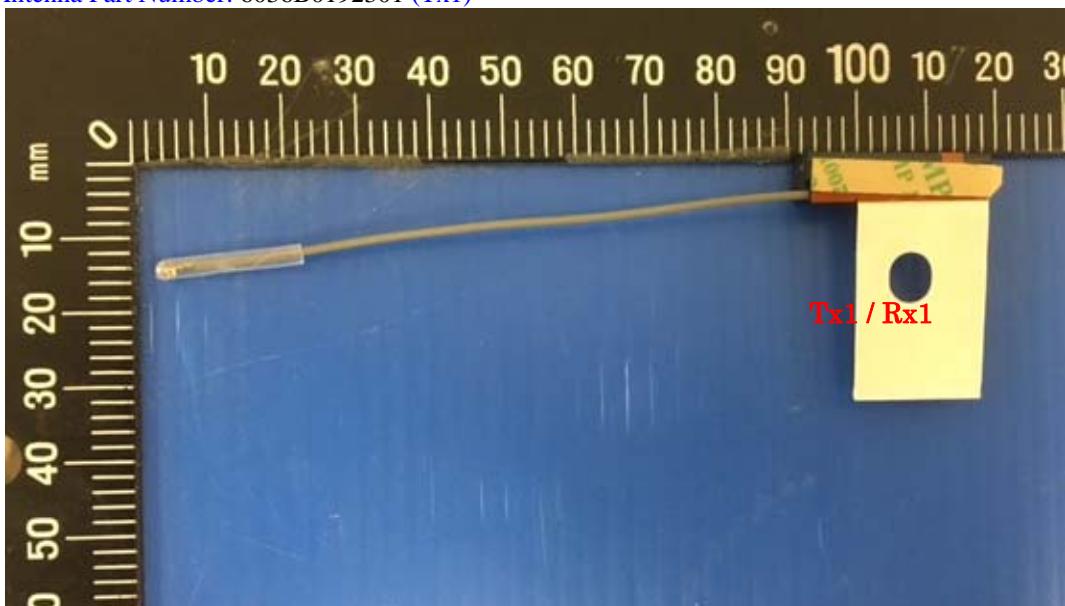
Antenna Part Number: 6036B0192301 (Tx1)



Include back view photo of all antennas here

Antenna Manufacturer: Yageo Corporation

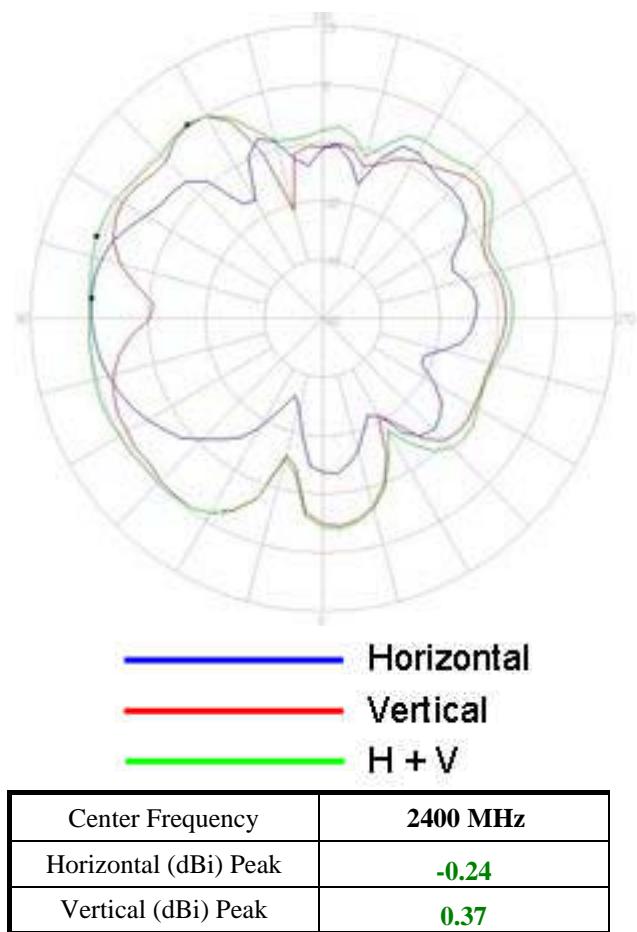
Antenna Part Number: 6036B0192301 (Tx1)



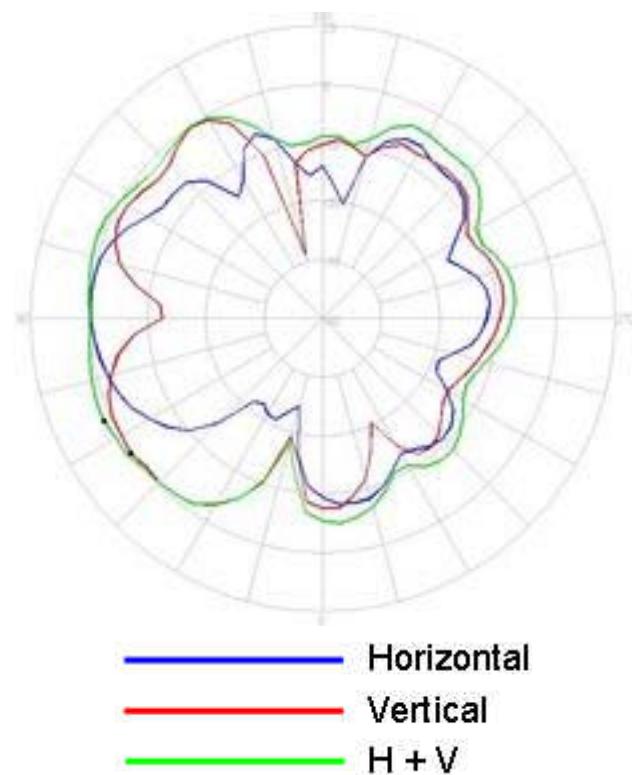
Section 3. Radiation characteristics of antennae Loaded in Host Platform

2400-2500MHz radiation characteristic

Tx1 antenna: 2400 MHz

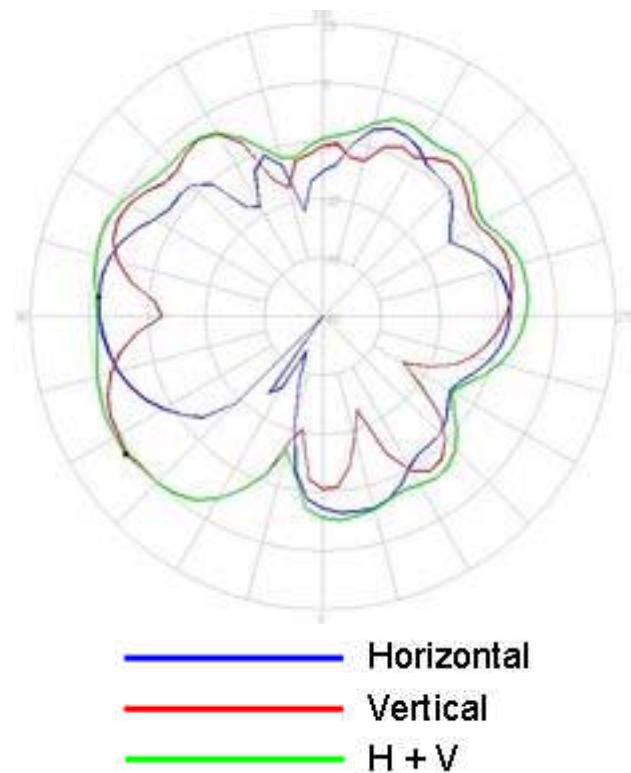


Tx1 antenna: 2450 MHz



Center Frequency	2450 MHz
Horizontal (dBi) Peak	-0.14
Vertical (dBi) Peak	0.11

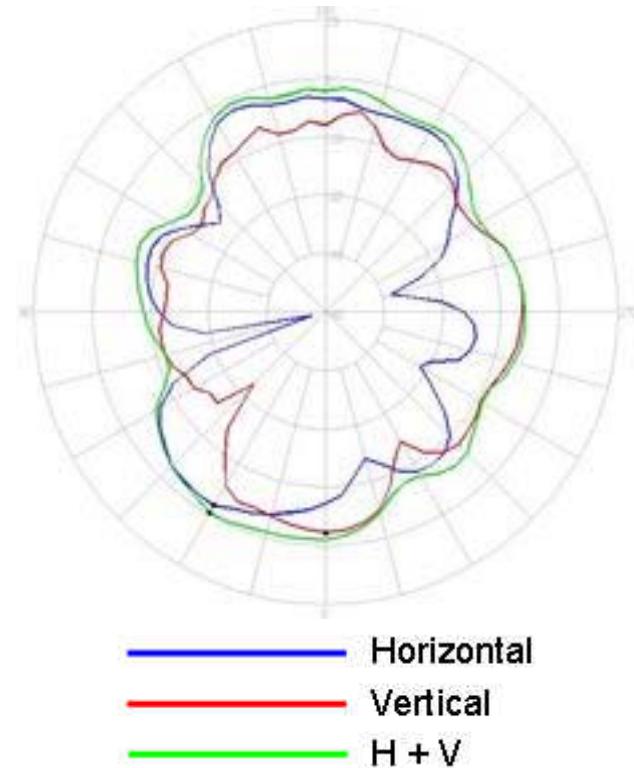
Tx1 antenna: 2500 MHz



Center Frequency	2500 MHz
Horizontal (dBi) Peak	-1.55
Vertical (dBi) Peak	0.89

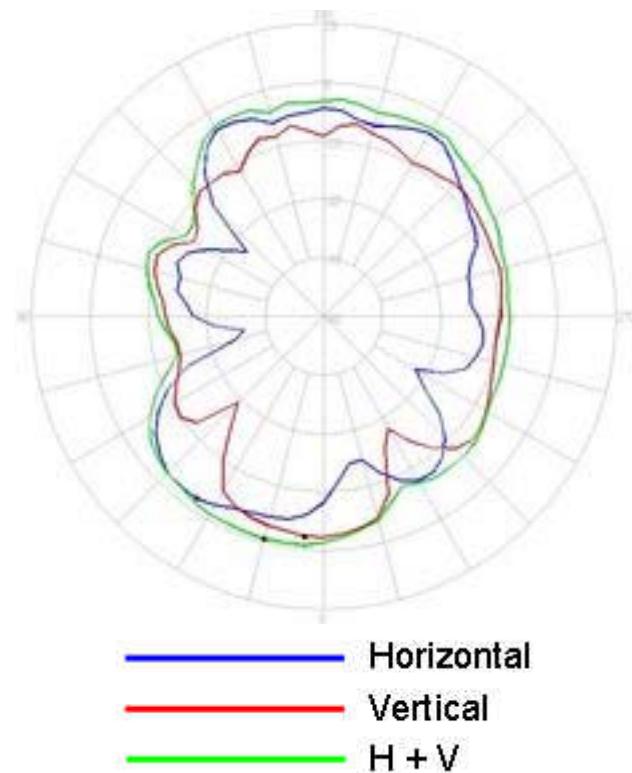
5150-5350 MHz radiation characteristic

Tx1 antenna: 5150 MHz



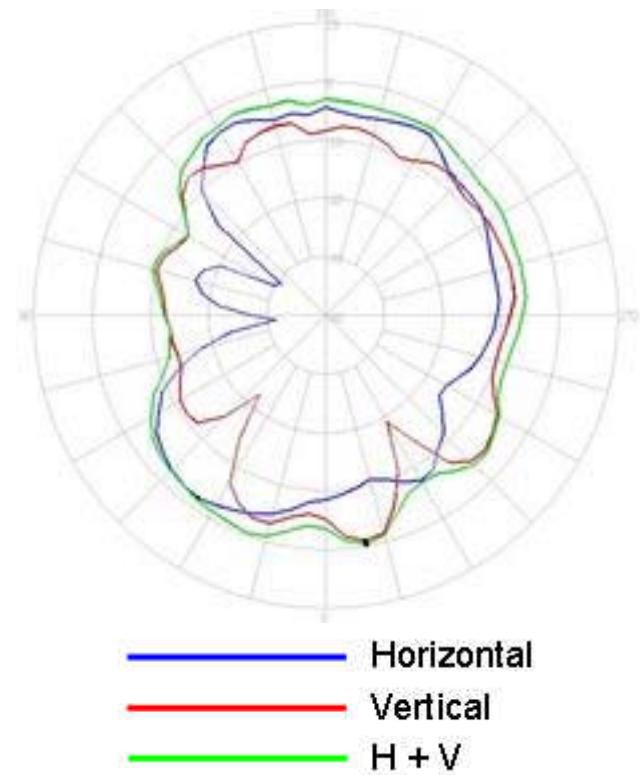
— Horizontal
— Vertical
— H + V

Center Frequency	5150 MHz
Horizontal (dBi) Peak	-1.85
Vertical (dBi) Peak	-2.29

Tx1 antenna: 5250 MHz

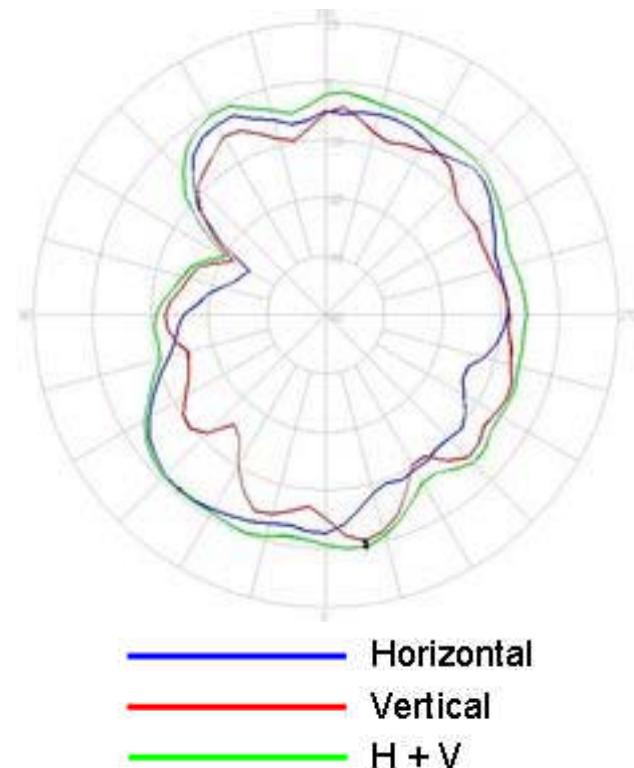
Center Frequency	5250 MHz
Horizontal (dBi) Peak	-2.06
Vertical (dBi) Peak	-2.32

Tx1 antenna: 5350 MHz



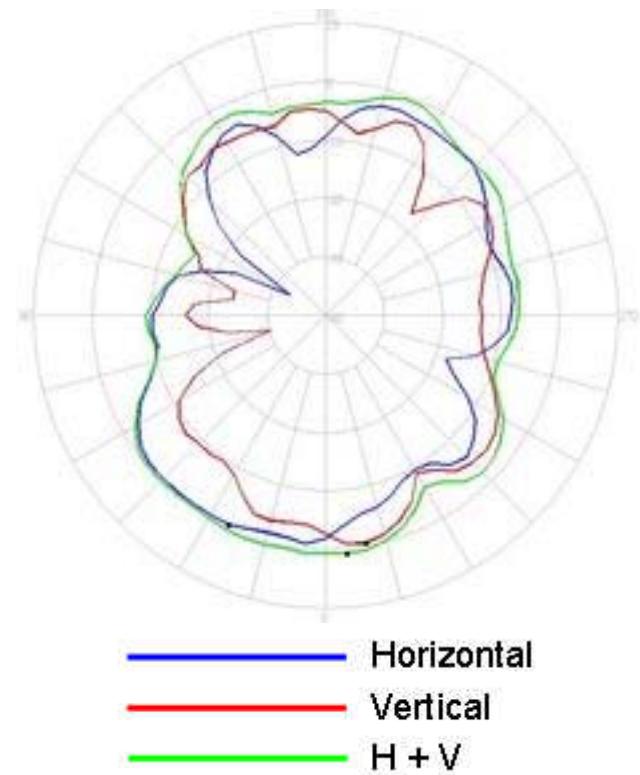
Center Frequency	5350 MHz
Horizontal (dBi) Peak	-1.9
Vertical (dBi) Peak	-0.93

Tx1 antenna: 5470 MHz

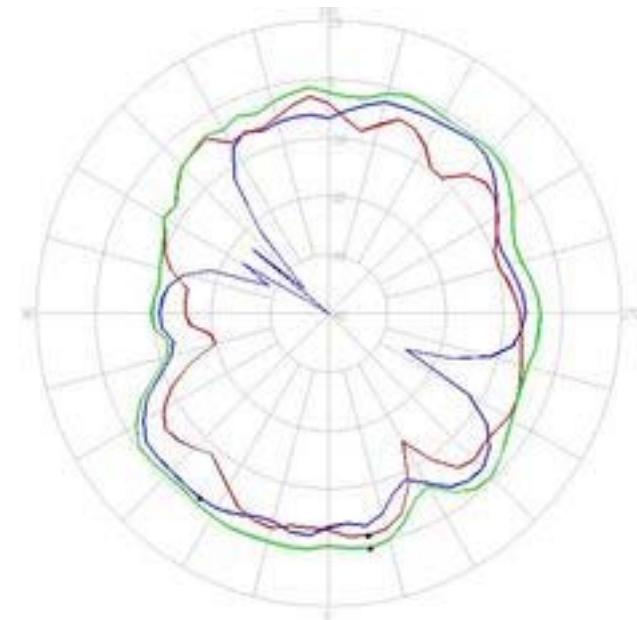


Center Frequency	5470 MHz
Horizontal (dBi) Peak	-1.03
Vertical (dBi) Peak	-0.73

Tx1 antenna: 5600 MHz



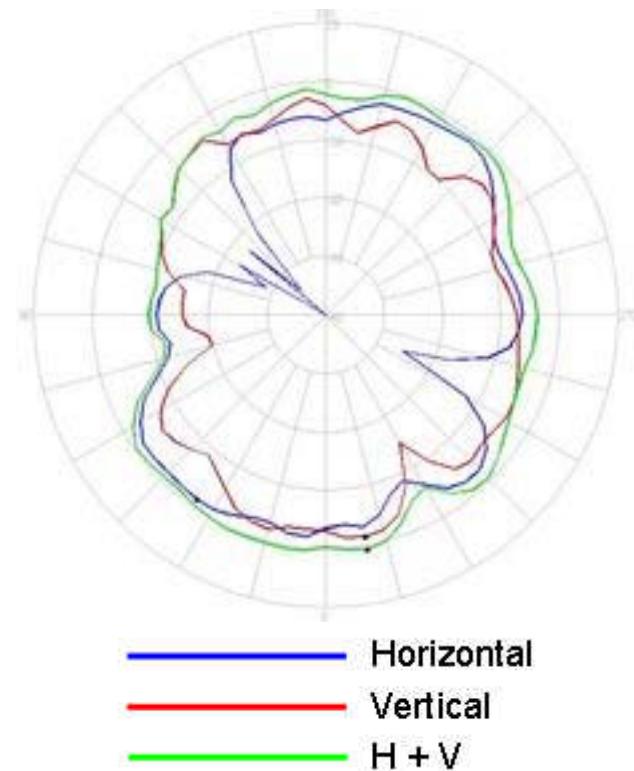
Center Frequency	5600 MHz
Horizontal (dBi) Peak	-0.6
Vertical (dBi) Peak	-0.53

Tx1 antenna: 5725 MHz

Center Frequency	5725 MHz
Horizontal (dBi) Peak	-1.5
Vertical (dBi) Peak	-1.54

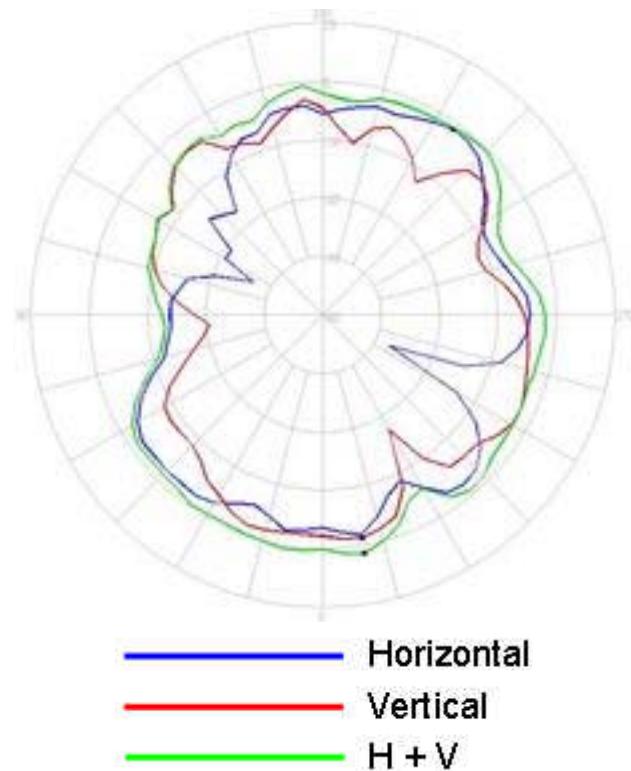
5725-5850 MHz radiation characteristic

Tx1 antenna: 5725 MHz



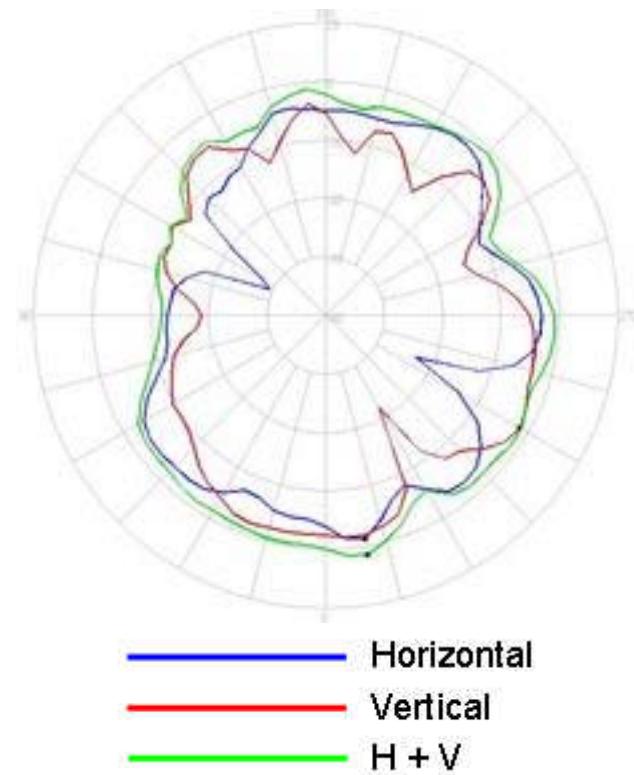
Center Frequency	5725 MHz
Horizontal (dBi) Peak	-1.5
Vertical (dBi) Peak	-1.54

Tx1 antenna: 5785 MHz



Center Frequency	5785 MHz
Horizontal (dBi) Peak	-1.24
Vertical (dBi) Peak	-1.33

Tx1 antenna: 5850 MHz

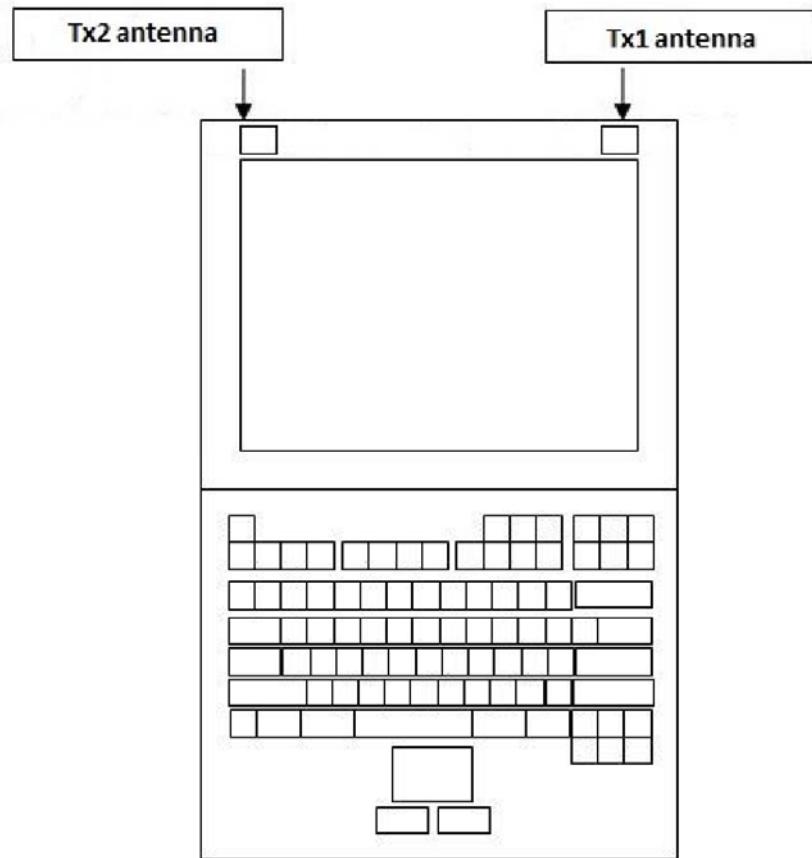


Center Frequency	5850 MHz
Horizontal (dBi) Peak	-1.3
Vertical (dBi) Peak	-1.64

Section 4. Host Platform Information

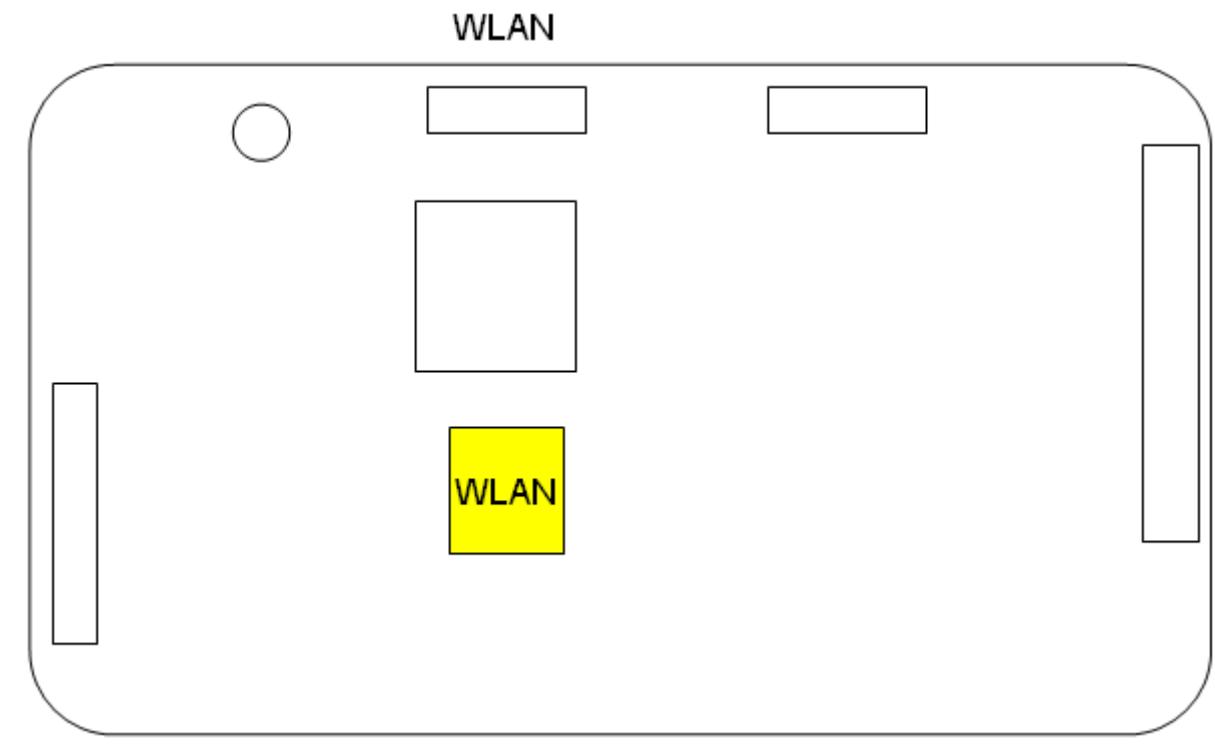
OEM / ODM Host platform: (Cinnamon_TPN-I127) platform correlated to antenna data

Rating Label Photo:



Section 5. Antenna Host Platform Location Information

Include a **dimensioned photo or dimensioned drawing** of Tx1, Tx2 and Tx3 antenna placements. (Not applicable for receive-only antenna e.g. Rx3 for 4965AGN)



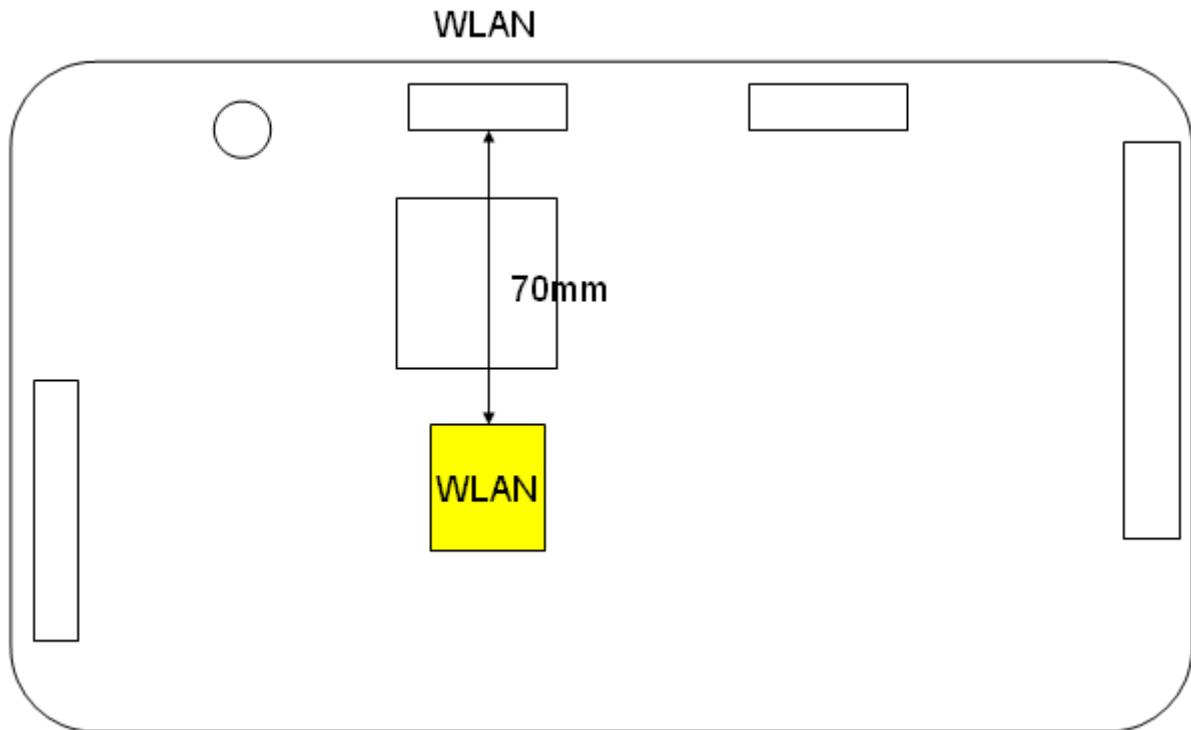
Section 6. Antenna dimensional information for SAR evaluation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between the transmit antennas and the user (excluding hands, wrist, feet, lap/ thigh, and ankle)

Section 7. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo** or **dimensioned drawing** showing the distance (mm) between all WLAN transmit antennas and other co-located radiator transmit antenna such as Bluetooth, WWAN,..

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)



Section 8. Local representative contact information

Local representative contact information is required for regulatory support for target countries below.

	Local company name	Contact name	Phone number	FAX Number	e-Mail Address	Notes
Argentina						
Azerbaijan						
Cambodia						
Indonesia						
Israel						
Malaysia						
Philippines						
Singapore						Telecommunication Equipment Dealer License Required
South Africa						
USA, Canada						
Vietnam						