

ANTENNA INFORMATION

OEM	ASUS	
ODM	Quanta	
Platform model name	RC74XA	
Intel platform (ex: Yes, No or NA)	No	
Platform type (ex: regular NB, convertible PC, AIO...etc)	Game console	
SAR minimum separation (mm)	FCC (1g)	2.45
	ISED (1g)	2.45
	ISED (10g)	2.45

Antenna manufacturer	Company name	INPAQ Technology Co.
	Address	No.5,Chunqiu Road, Panyang Industrial Park Huangdai Town, Xiangcheng Zone, Suzhou
Test location	Company name	INPAQ
	Address	1F., No. 106-1, Ligong St., Beitou Dist., Taipei City 112019, Taiwan (R.O.C.)
Test Personnel	Name(Full name)	Levi Su
	E-mail	Levi.su@inpaq.com.tw
	Tel/Mobile	0988-974415
Testing date	2026/03/24	

Antenna Part number	Main	WA-P-LE-02-480
	Aux	WA-P-LE-01-144
Antenna type (ex: PIFA, Dipole...etc)	PIFA	

Antenna Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	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	7.0 GHz 6875-7125MHz
Main	1.31	2.37	2.37	3.32	3.32	2.52	2.93	2.5	3.42	2.85
Aux	0.8	2.59	2.7	3.24	3.24	3.52	2.94	2.43	2.68	2.47

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113/50-105	122	1.13	50	I-PEX / 彩美 4L
Aux	SY113/50-128	184	1.13	50	I-PEX / 彩美 4L

* 3D Antenna Peak Gain required being test in system basis.

Table of Contents

Cover page.....	1
1. Intel Reference Gain and Type.....	3
2. Document Revision History.....	3
3. Test & System Description	
3.1 Measurement Method and System.....	4
3.2 Test setup.....	4
3.3 Equipment list.....	5
4. Radiation characteristics of antenna loaded in Host Platform.....	7
Annex A. Photographs	
A.1 Setup Photo.....	17
Annex B. Antenna Location	
B.1 Antenna Host Platform Location Information.....	18
B.2 Antenna dimensional information for SAR evaluation.....	19

1. Intel Reference Gain and Type

Antenna Peak gain w/ cable loss (dBi)											
Band/Frequency		2.4GHz 2400-2483.5 MHz	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	7.0 GHz 6875-7125MHz
Design	EU/UK	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PIFA	For WiFi 6E and earlier	3.24	3.64	3.73	4.77	4.97	4.72	4.83	4.30	5.37	5.59
	From WiFi 7	2.95	5.11	4.55	5.15	5.13	4.45	5.02	5.02	4.96	4.96
Dipole	For WiFi 6E and earlier	2.89	2.92	3.19	4.41	4.22	4.22	4.83	4.30	4.49	5.34
	From WiFi 7	2.95	4.03	4.11	5.15	5.13	4.45	5.02	4.71	4.49	4.96
Monopole	From WiFi 7	2.83	4.57	4.44	4.95	4.95	4.43	4.87	4.91	4.91	4.79

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.

2. Document Revision History

Revision #	Revision Details	Issued Date
Rev. 00	First Issue	

3. Test & System Description

3.1 Measurement Method and System

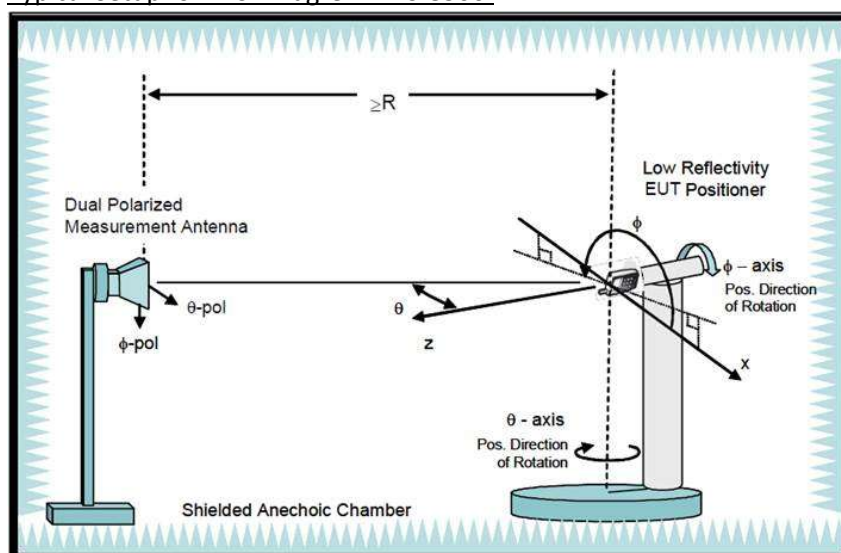
ETS-Lindgren AMS-8500 system is 3D fully anechoic chamber, it is applied to the “Conical Cut test method”, the detail description is described as below.

The Conical Cut method requires the ability of the Measurement Antenna to be physically rotated in the theta plane (overhead) of the EUT for implementations using a single Measurement Antenna, Eleven conical cuts are required to capture data at every 15 degrees from the EUT, with the top (0 degrees) and bottom (180 degrees) cuts not being measured. Typically, the EUT will remain affixed to a turntable during the entire measurement process. The Measurement Antenna will be positioned at a starting theta angle. The EUT will then be rotated around the full 360 degrees of phi rotation. The Measurement Antenna will then be positioned at the next theta angle, and the process repeated.

		θ -Axis	Φ -Axis
Passive	Step size	15°~165° step: 15°	0°~345° step: 15°
	N / M (Points)	12	24

3.2 Test setup

Typical Setup for ETS-Lindgren AMS-8500:



3.3 Equipment list

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network analyzer	Agilent	E5071C	2026/01/07	2027/01/06
Measurement software	ETS-Lindgren	EMQuest	2026/03/03	2027/03/03
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2115	2026/03/03	2027/03/03
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2110	2026/03/03	2027/03/03
MAPSTM controller	ETS-Lindgren	EMCO 2090	2026/03/03	2027/03/03
Horn antenna	ETS-Lindgren	3164-10	2026/03/03	2027/03/03
Cable 40cm 18 GHz	Jmtt	201EH012010400	2026/04/07	2027/04/08
Cable 6m 18 GHz	Jmtt	201EH012016000	2026/04/07	2027/04/08
Cable 6m 18 GHz	Jmtt	201EH012016000	2026/04/07	2027/04/08
Cable 3.5m 18 GHz	Jmtt	201EH012013500	2026/04/07	2027/04/08
Cable 1.5m 18 GHz	Jmtt	201EH012011500	2026/04/07	2027/04/08

Antenna Information

1A Antenna Part Number	1B Manufacturer	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 Max VSWR	1H Cable Loss (dB)
(P/N: WA-P-LE-02-480) Main Antenna	INPAQ	PIFA	50 ohm Coaxial length: 122 mm diameter: 1.13 mm LLS Cable Connector : I-PEX/彩美-4L	2400-2483.5	1.31	1.64	3	0.33
				5150-5250	2.37	2.87	3	0.5
				5250-5350	2.37	2.87	3	0.5
				5470-5725	3.32	3.83	3	0.51
				5725-5850	3.32	3.84	3	0.52
				5850-5895	2.52	3.05	3	0.53
				5925-6425	2.93	3.48	3	0.55
				6425-6525	2.5	3.06	3	0.56
				6525-6875	3.42	3.99	3	0.57
				6875-7125	2.85	3.44	3	0.59
(P/N: WA-P-LE-01-144) Aux Antenna	INPAQ	PIFA	50 ohm Coaxial length: 184 mm diameter: 1.13 mm LLS Cable Connector : I-PEX/彩美-4L	2400-2483.5	0.8	1.31	3	0.51
				5150-5250	2.59	3.35	3	0.76
				5250-5350	2.7	3.46	3	0.76
				5470-5725	3.24	4.02	3	0.78
				5725-5850	3.24	4.03	3	0.79
				5850-5895	3.52	4.32	3	0.8
				5925-6425	2.94	3.77	3	0.83
				6425-6525	2.43	3.28	3	0.85
				6525-6875	2.68	3.55	3	0.87
				6875-7125	2.47	3.36	3	0.89

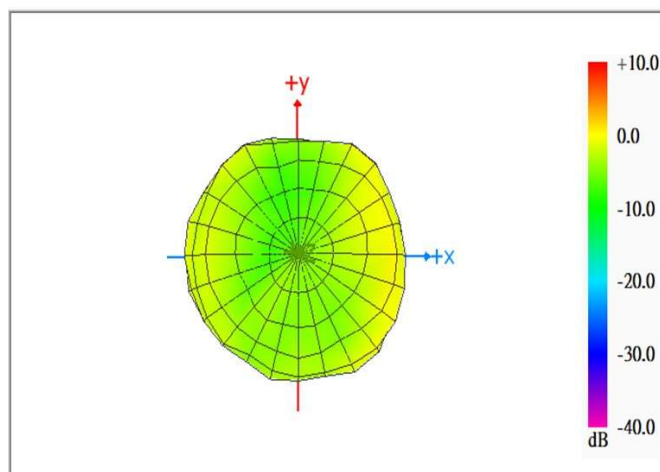
- 3D Antenna Peak Gain required being test in system basis.

4. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

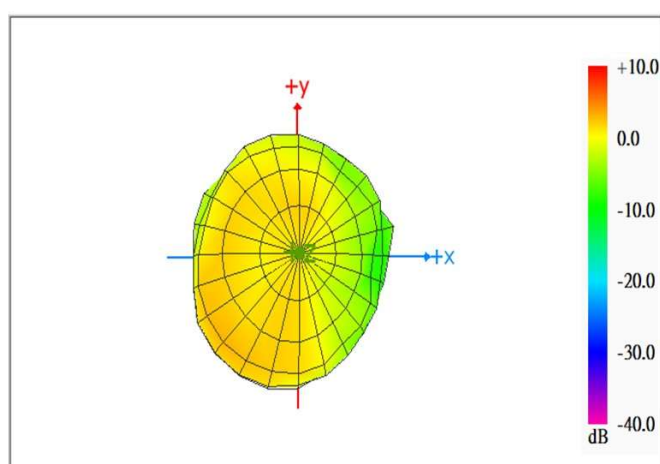
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.31



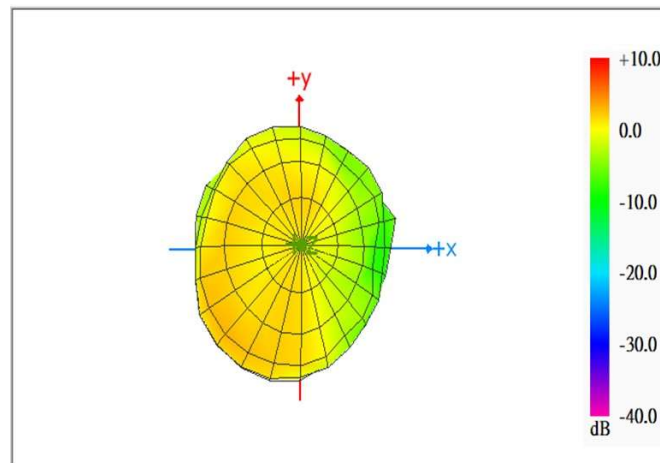
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.37



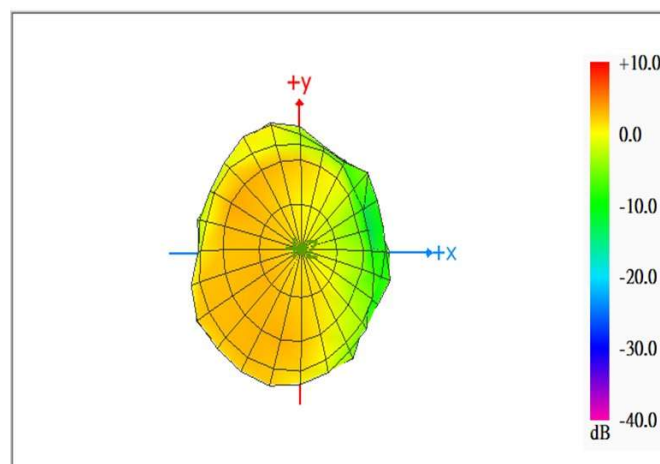
Max Antenna 3D Radiation Pattern 5250-5350 MHz

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5250-5350	2.37



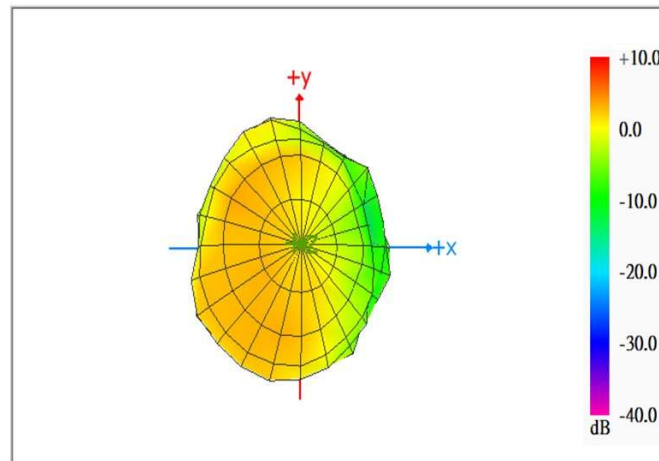
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.32



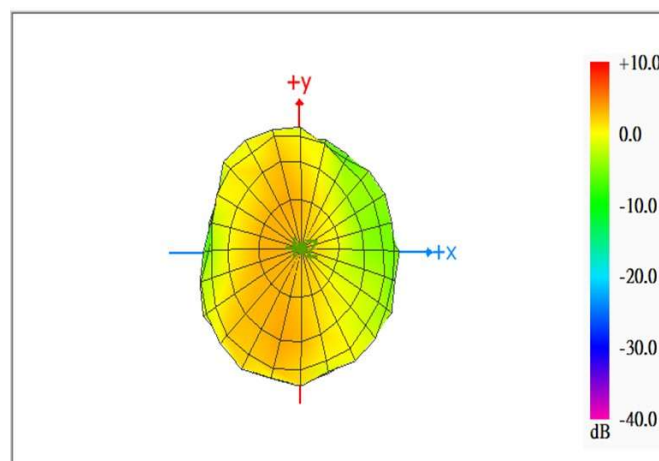
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.32



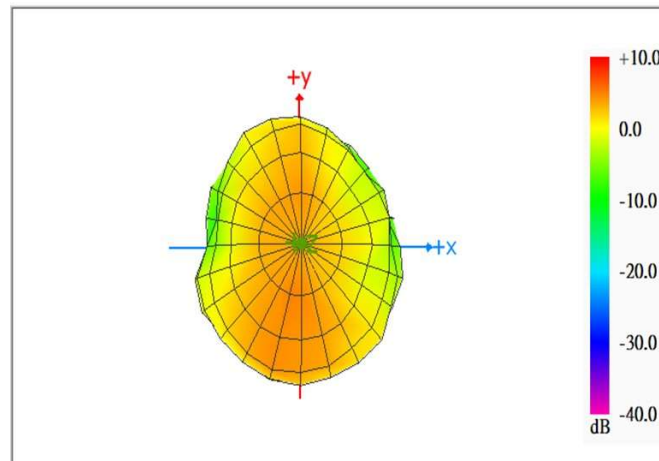
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.52



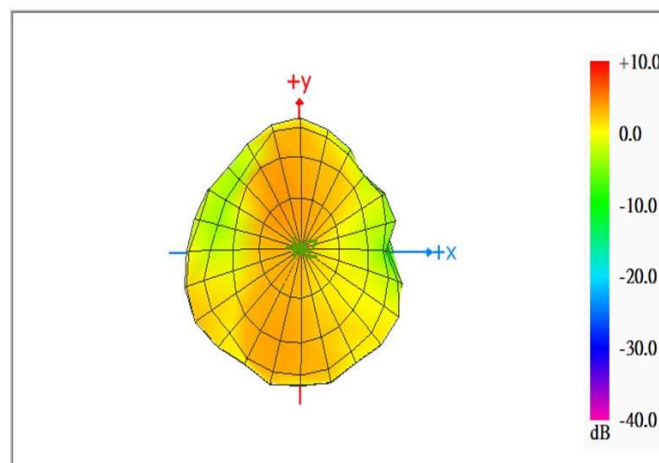
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.93



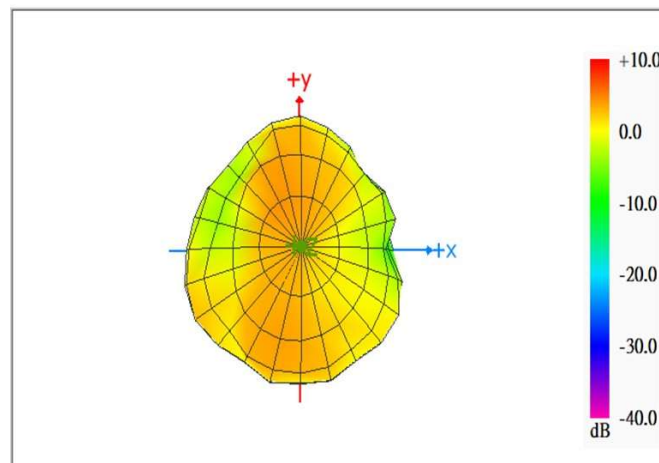
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.50



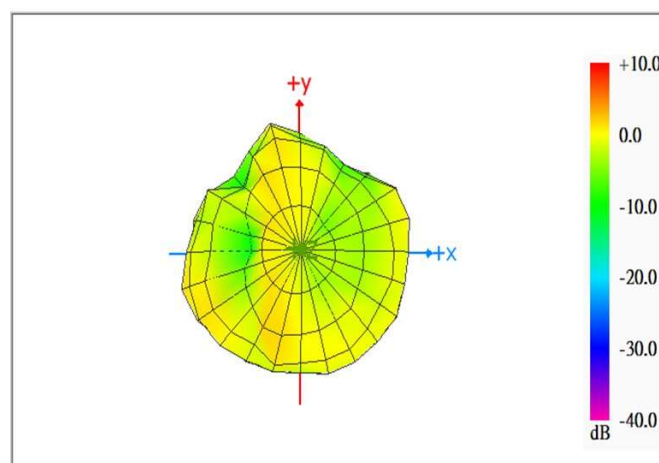
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.42



Max Antenna 3D Radiation Pattern 6875-7125 MHz

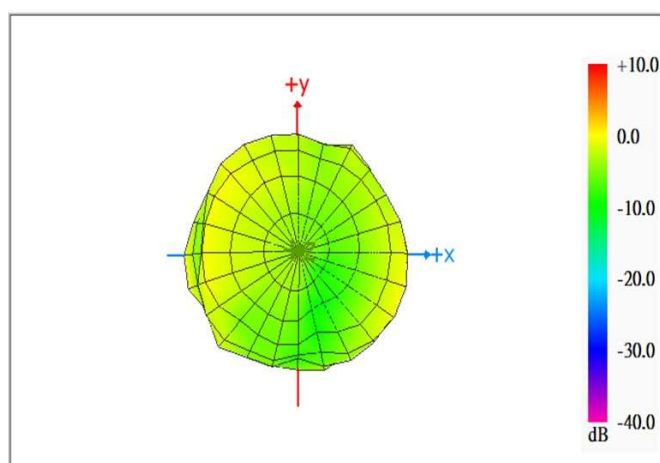
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.85



Auxiliary Antenna

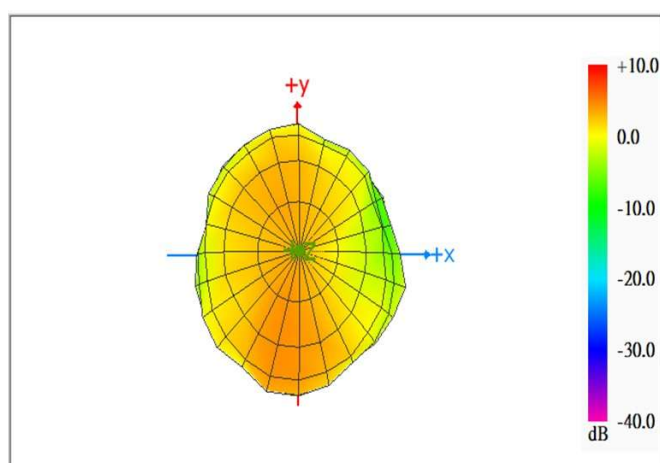
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	0.8



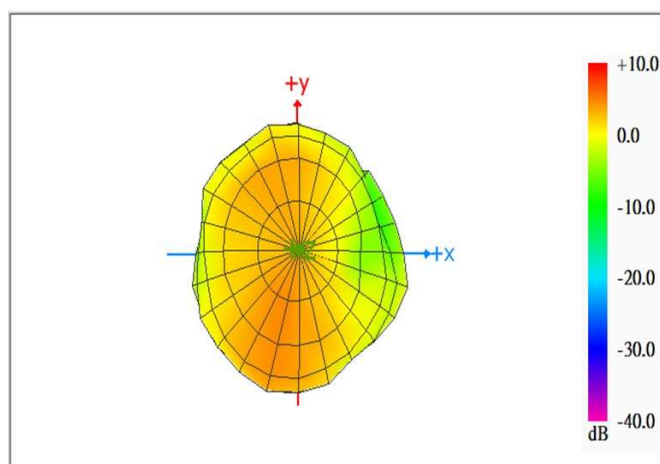
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.59



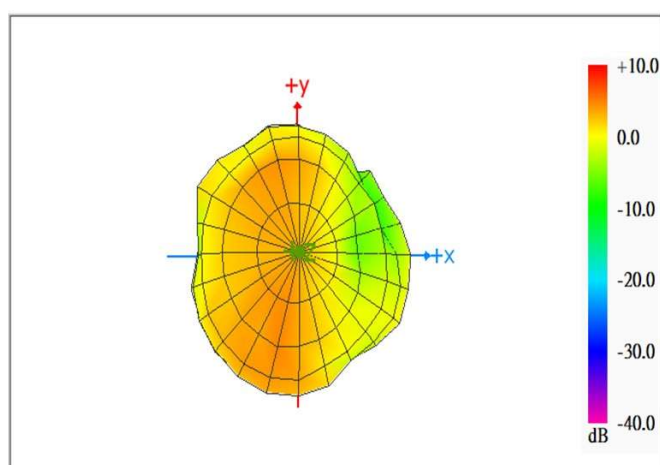
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.7



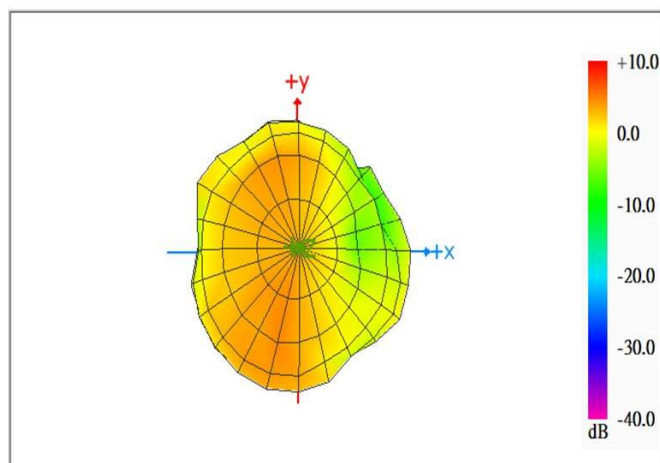
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.24



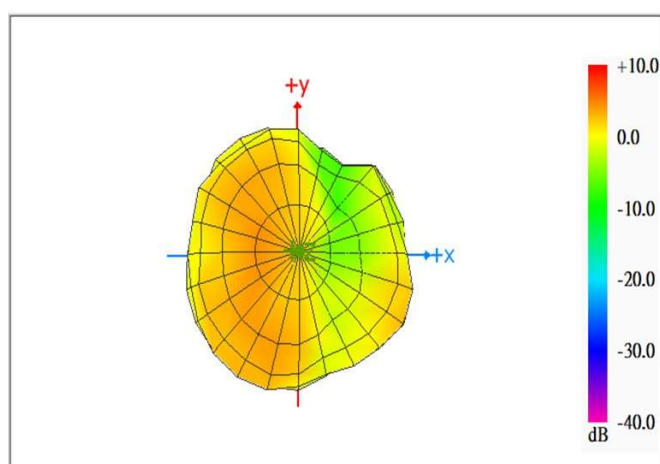
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.24



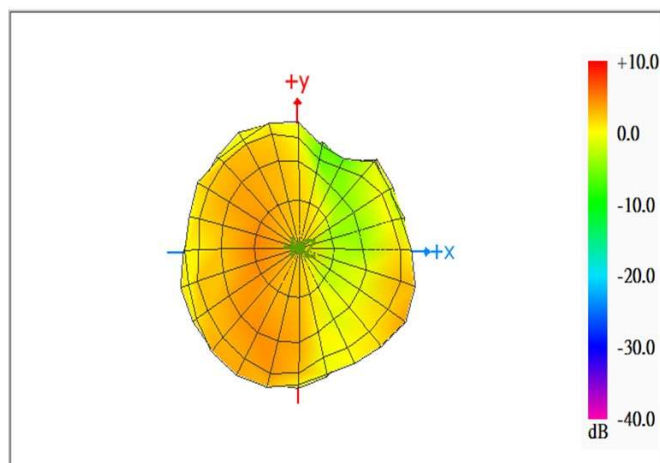
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.52



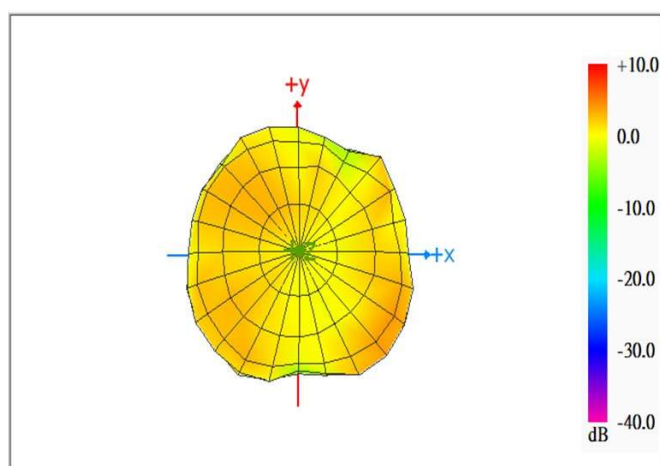
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.94



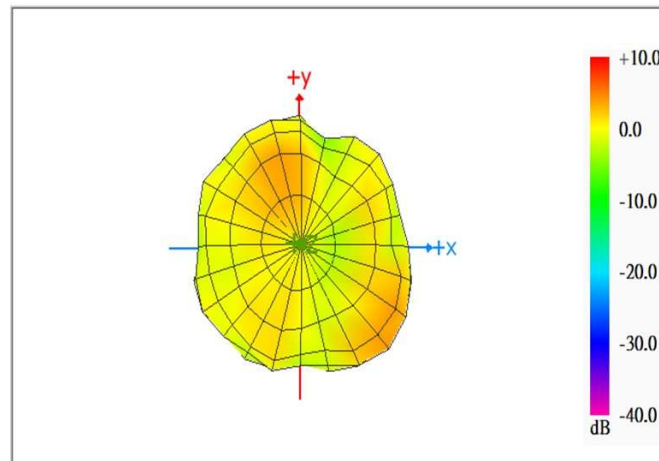
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.43



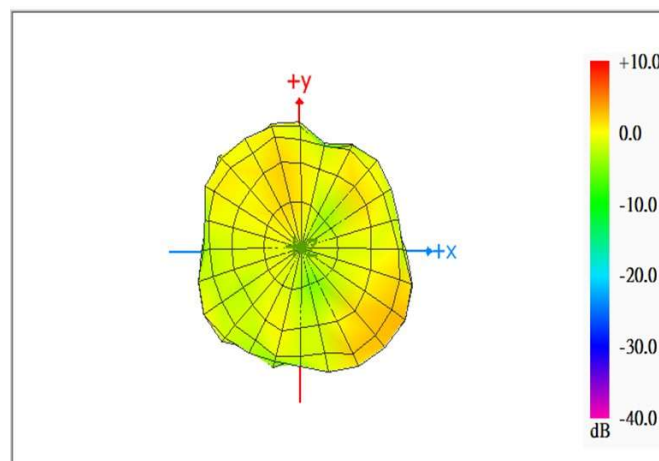
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.68



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.47



Annex A. Photographs

A.1 Setup Photo

<insert test diagram here for test site utilized>

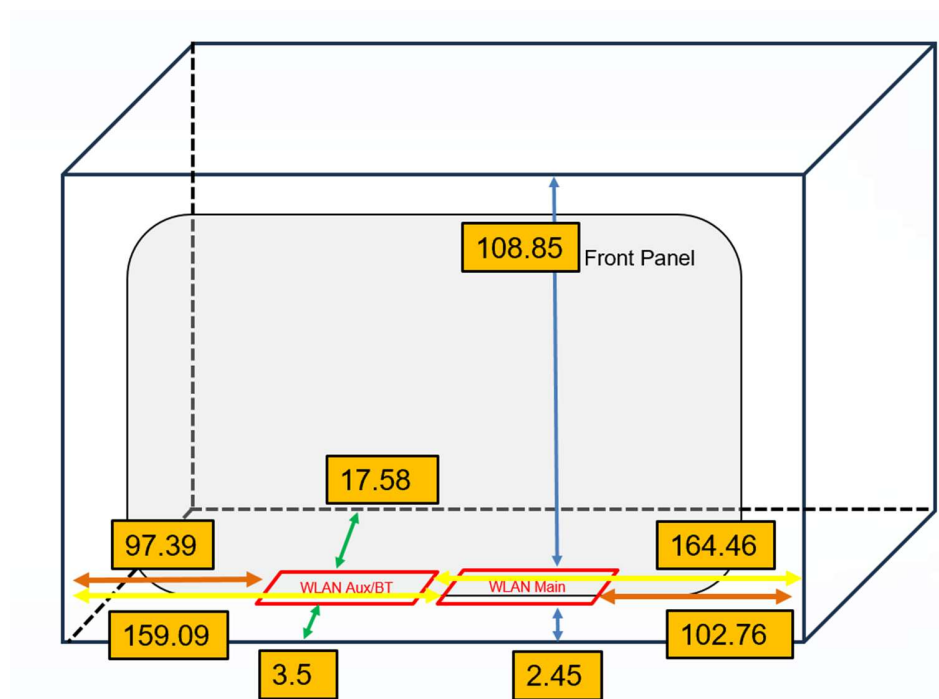
Annex B. Antenna Location

B.1 Antenna Host Platform Location Information

Include a dimensioned photo(s) or dimensioned drawing(s) of Main and Aux antenna placements (measurements are not required for receive-only antenna).

Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.

<Front Face View>

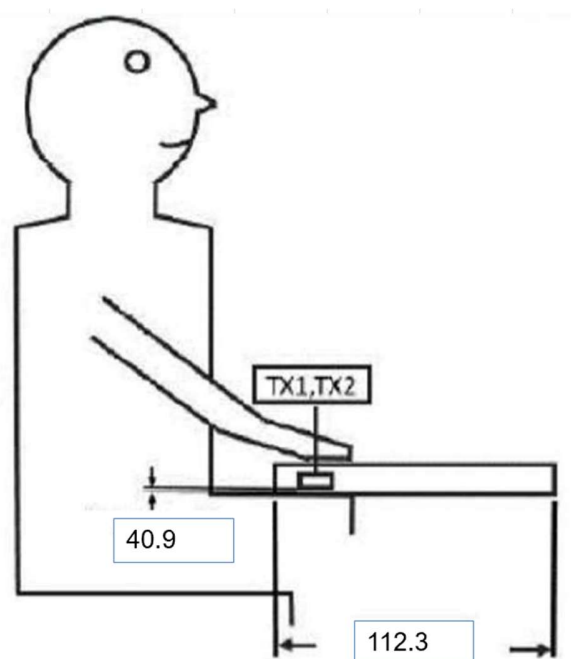


Antenna	To Bottom Side (mm)	To Top (mm)	To Left Side (mm)	To Right Side (mm)
WLAN Main Ant 0	2.45	108.85	159.09	102.76
WLAN/Aux/ Ant1	2.45	108.85	97.39	164.46

B.2 Antenna dimensional information for SAR evaluation

Include a dimensioned photo(s) or dimensioned drawing(s) showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.

Antennas on the panel section



Measuring Surface	Antenna	Separation Distance(antenna-to- Surface)(mm)	1g SAR
Bottom Side	Main	40.9	FCC/ISED
	Aux	40.9	FCC/ISED