

Regulatory WLAN Antenna Information (Template)

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 Name	Model Name	ODM	Intel platform (ex: Yes, No or NA)		Platform type (ex: regular NB, convertible PC, AIO...etc)		*SAR minimum separation (mm)		
Lenovo	Lenovo VRX 6060	LCFC							
*****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	Antenna Part number (Main)			Antenna Part number (Aux)			
Speed Wireless Technical Co., LTD.		PIFA	DC330020A0P			DC330020B0P			
Peak gain w/ cable loss (dBi)*									
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.5GHz 5470-5725MHz	5.8GHz 5725-5850MHz	UNII-5 5925-6425MHz	UNII-6 6425-6525MHz	UNII-7 6525-6875MHz	UNII-8 6875-7125MHz
Ant 0	1.84	2.80	2.80	2.90	2.40	2.90	2.20	2.00	2.80
Ant 1	1.40	2.40	2.80	2.30	2.30	2.70	2.50	2.90	2.50

Test Lab : ETS

Test instrument : CMW500

Test software : EMQuest REV1.12

Manufacturer Address:No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province

1. Applicable test methods

This test report is prepared for host antenna testing under a Full Anechoic Chamber.

2. Equipment list

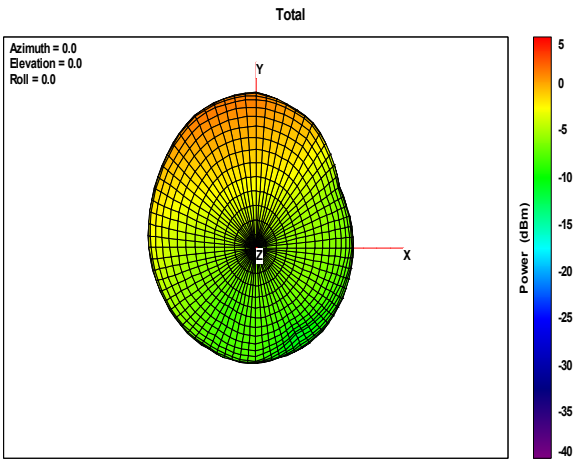
Number	Device	Manufacturer	Cal. Date	Cal. Due. Date
1	Turn table control box	EMT	2022/11/20	2023/11/20
2	Turn table control computer	EMT	2022/11/20	2023/11/20
3	TX/RX RF power and its control unit	EMT	N/A	N/A
4	Probe switch array	EMT	N/A	N/A
5	Test system host	EMT	N/A	N/A
6	Network analyzer	EMT	2022/11/20	2023/11/20
7	RF line TX	EMT	N/A	N/A
8	RF line RX	EMT	N/A	N/A
9	UPS uninterruptible power supply	EMT	N/A	N/A
10	Cable 2m 1GHz 8.5GHz	Atem	2022/11/20	2023/11/20
11	Chamber	EMT	2022/11/20	2023/11/20
12	Horn antenna	EMT	N/A	N/A

Radiation characteristics of antenna loaded in Host Platform

Ant 0 Antenna

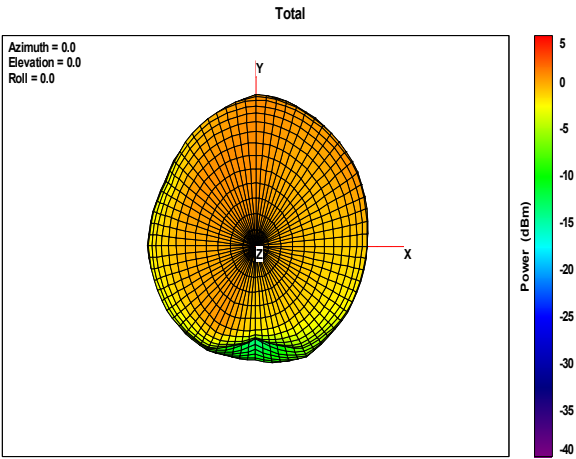
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.84



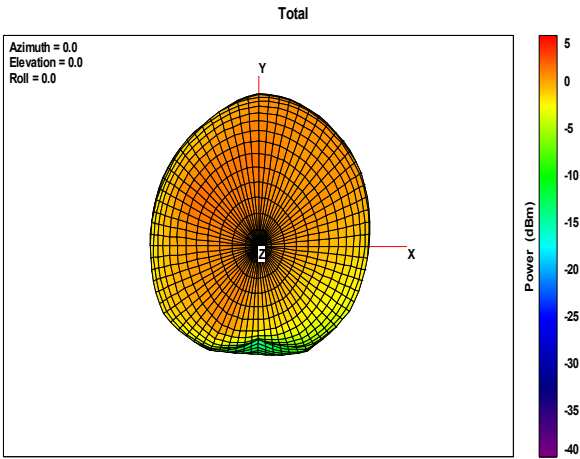
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.80



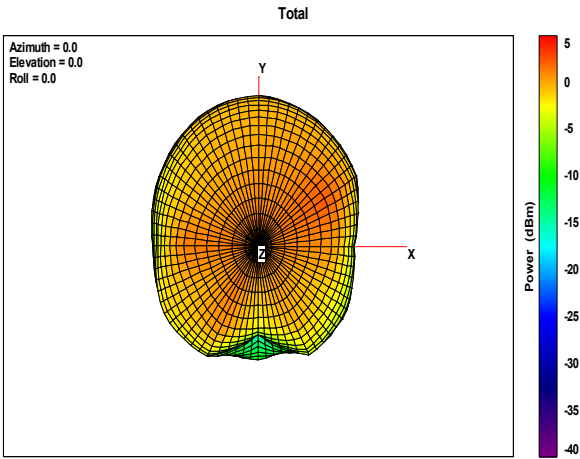
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.80



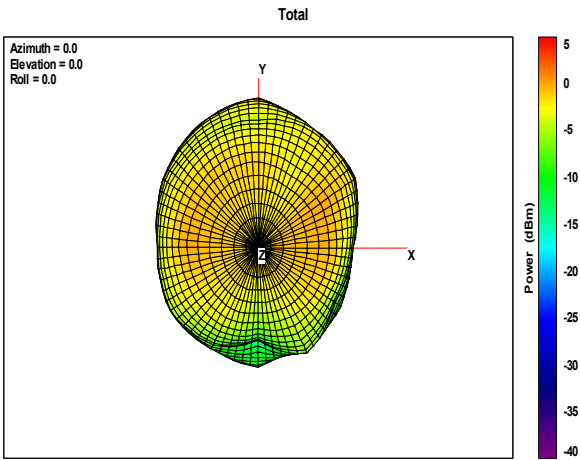
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.90



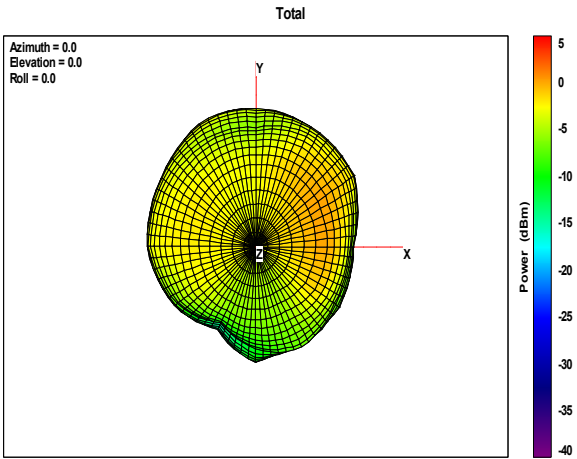
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.40



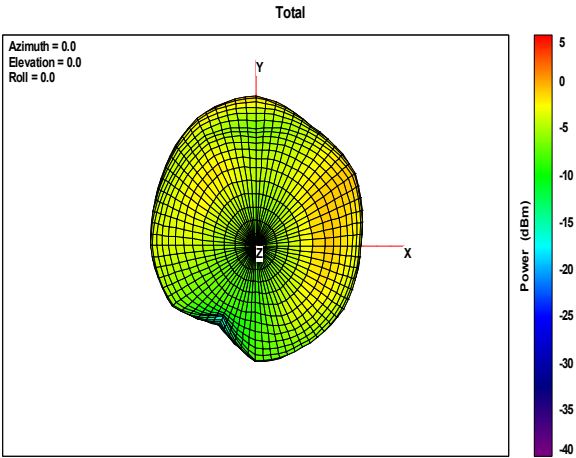
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.90



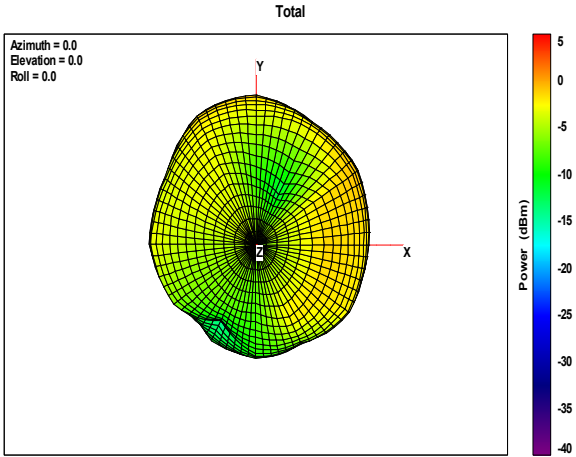
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.20



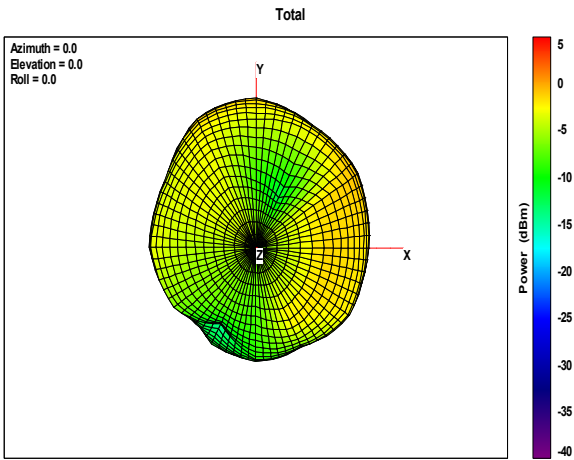
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.00



Max Antenna 3D Radiation Pattern 6875-7125 MHz

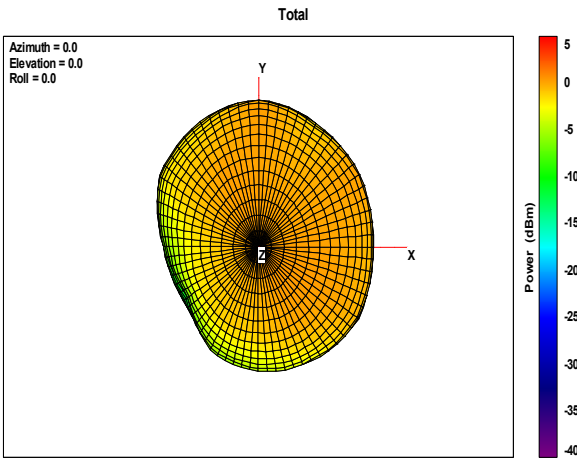
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.80



Ant 1 Antenna

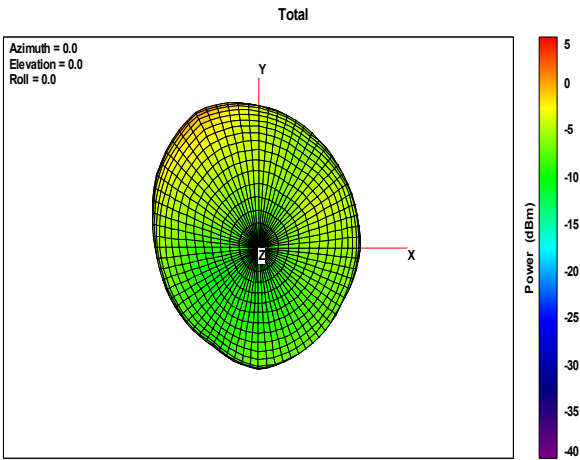
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.40



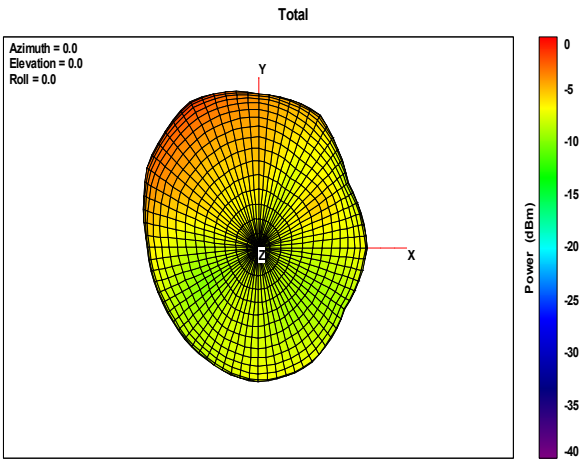
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.40



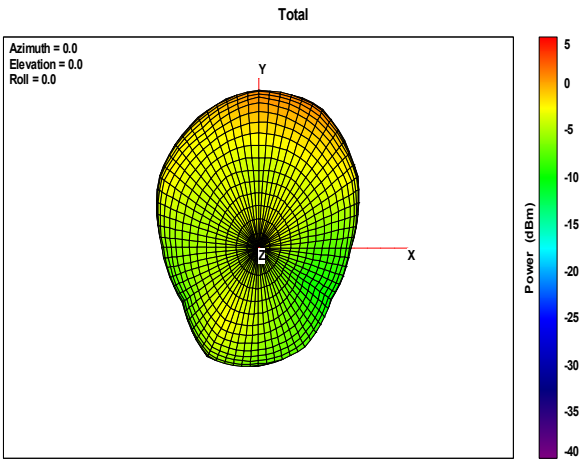
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.80



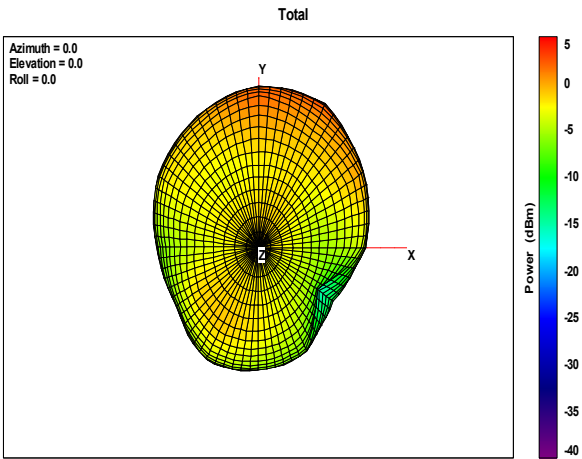
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.30



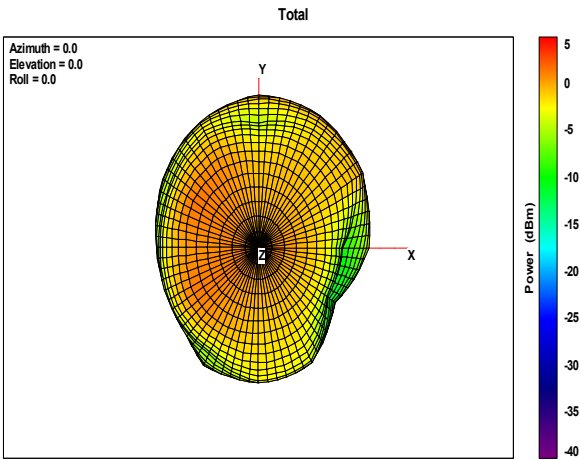
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.30



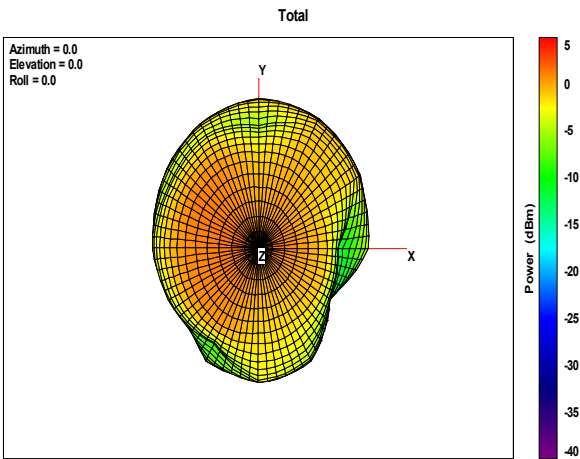
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.70



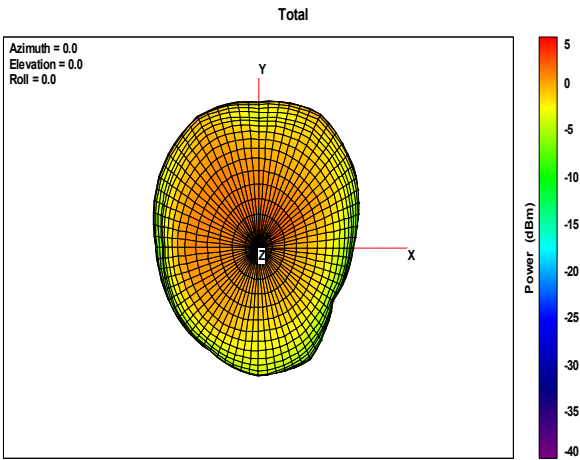
Max Antenna 3D Radiation Pattern 6425-6525 MHz

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



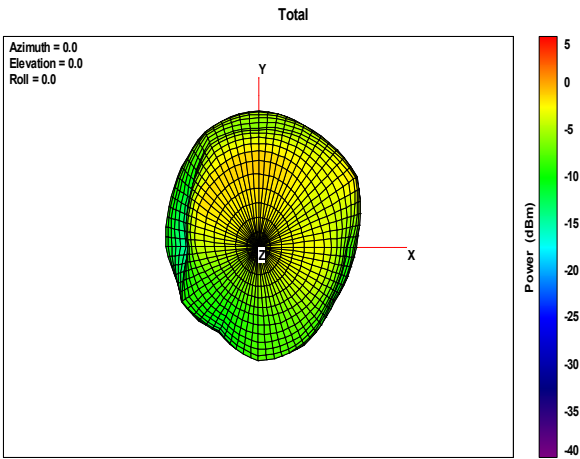
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.90



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.50



Revision History

Revision	Description	Date
10.3	Page2-5 Add Applicable test method, Test & System Description and Setup photo	July 24, 2022
10.4	Cover page Add Intel 5.9GHz reference antenna gain Cover page/Section1/Section3 Add 5.9GHz antenna gain information	September 15, 2022

Regulatory Bluetooth Antenna Information

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Speed Wireless Technical Co., LTD.			PIFA		DC33002090P					
Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400~2483.5 MHz									
Main	2.90									
Aux										

Test Lab : ETS

Test instrument : CMW500

Test software : EMQuest REV1.12

Manufacturer Address:No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province

1. Applicable test methods

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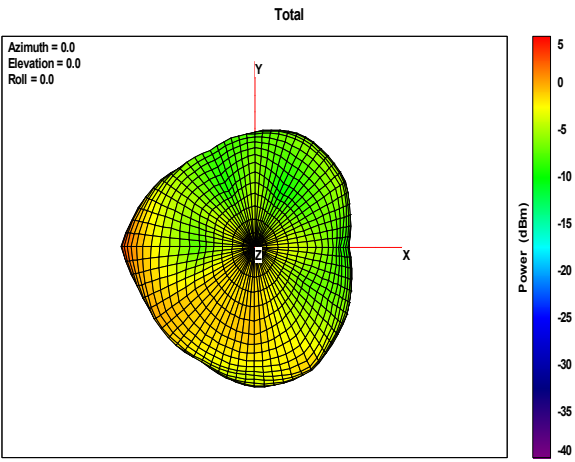
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8	RF line RX	EMT	N/A	N/A
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11	Chamber	EMT	2022/11/20	2023/11/20
12	Horn antenna	EMT	N/A	N/A

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	2.90



Revision History

Revision	Description	Date
10.3	<u>Page2-5</u> Add Applicable test method, Test & System Description and Setup photo	July 24, 2022
10.4	<u>Cover page</u> Add Intel 5.9GHz reference antenna gain <u>Cover page/Section1/Section3</u> Add 5.9GHz antenna gain information	September 15, 2022