ANTENNA INFORMATION

Antenna manufacturer	Company name	AWAN
	Address	5F., No. 225, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231 , Taiwan
Test location	Company name	SGS, Taiwan
	Address	No.2, Keji 1st Rd., Guishan District, Taoyuan City, 33383, Taiwan.
Test Personnel	Name(Full name)	Matt Wu
	E-mail	Matt_wu@pegatroncorp.com
	Tel/Mobile	(02) 81439001 EXT:32569
Testing date		2025/12/01~12/25

Antenna Part number	Main	1415-0BDF0QS (1415-0BF80QS)
	Aux	1415-0BDG0QS (1415-0BF90QS)
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	**1.88**	**4.02**	**4.01**	**4.26**	**4.10**	**3.95**	**4.46**	**4.49**	**4.42**	**4.45**
Aux	**0.55**	**3.94**	**3.80**	**4.09**	**4.09**	**3.94**	**4.35**	**4.38**	**4.34**	**3.99**

Cable Assembly Part Number and Information

	Cable PN	**Cable length**(mm)	**Cable diameter**(mm)	**Impedance**(ohm)	**Connector type**
Main	20565-001R-13	105	1.13	50 ohm	IPEX 4 NGFF(MHF 4)
Aux	20565-001R-13	46	1.13	50 ohm	IPEX 4 NGFF(MHF 4)

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

Note.

Antenna Part number () description:

The antennas are manufactured and produced by a local antenna supplier in China. The antenna assembly consists of the Antenna Deck and Antenna Cable. After soldering and packaging as a finished part, the antennas are assembled into the final product at Pegatron’s Suzhou factory in China.

In addition, the antenna assemblies built at Pegatron’s Vietnam factory use exactly the same materials and design as those produced in China.

due to the independent management system at the Pegatron’s Vietnam factory, the antennas from China and Vietnam must be assigned with different part numbers, even though the materials and design are identical.

Table of Contents

Cover page……..... **1**

1. Document Revision History..... **3**

2. Test & System Description

2.1 Measurement Method and System..... 4

2.2 Test setup..... 4

2.3 Equipment list..... 5

3. Radiation characteristics of antenna loaded in Host Platform..... **6**

1. Document Revision History

Revision #	Revision Details	Issued Date
Rev. 00	First Release	

2. Test & System Description

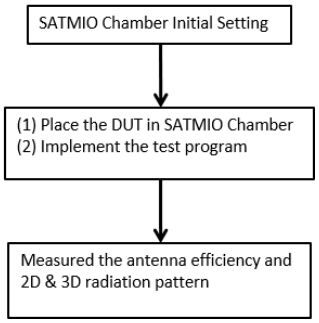
2.1 Measurement Method and System

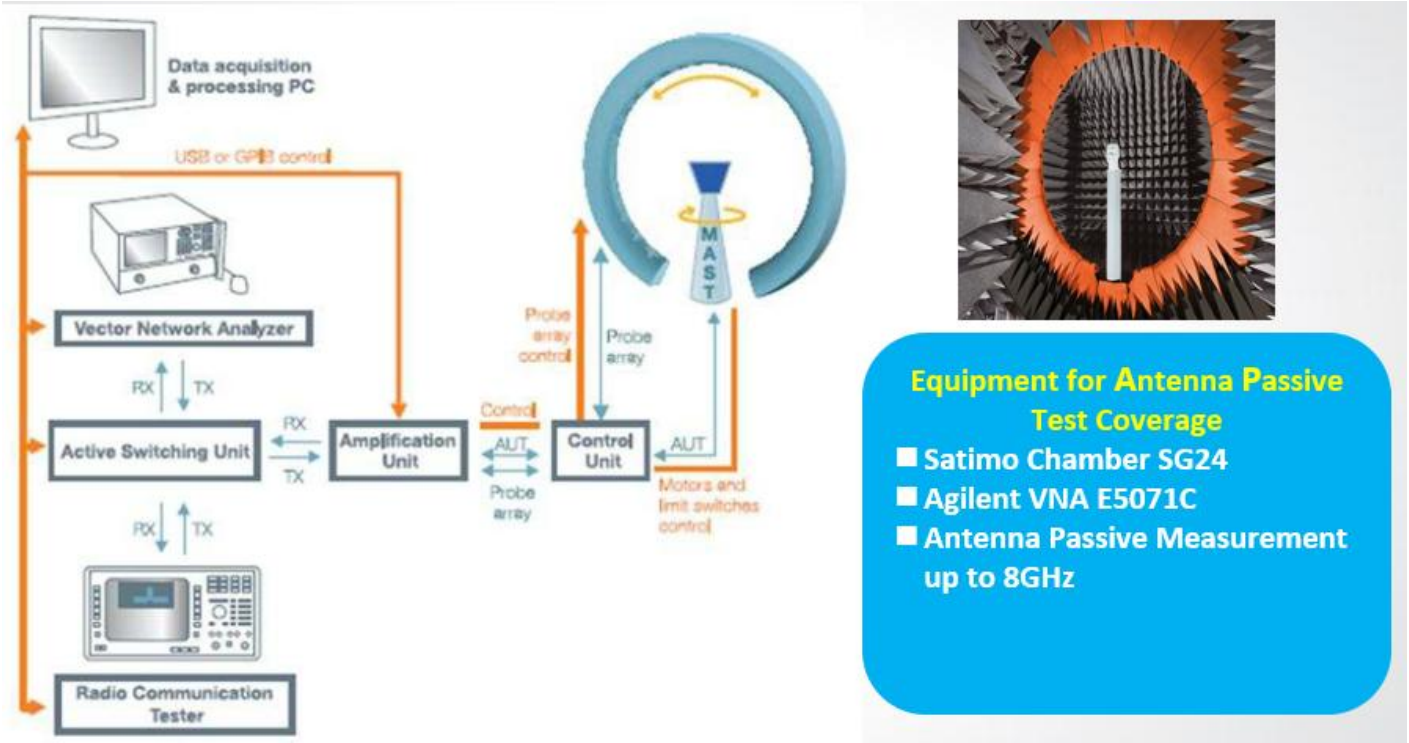
This test report is prepared for host antenna testing under a Full Anechoic Chamber (Satimo Chamber SG24).

Names of commercial software being used for antenna measurement: SatEnv ver. 3.0.3.0 build 30

2.2 Test setup

Diagram





2.3 Equipment list

	Device	Model	Manufacturer	Cal. Date	Cal. Due Date
1	SATMIO Chamber	SG24	MVG	2025/8/4	2026/8/3
2	Network Analyzer	E5071C	Keysight	2025/8/4	2026/8/3

Name of Person and Signature:
Test Engineer: Matt Wu

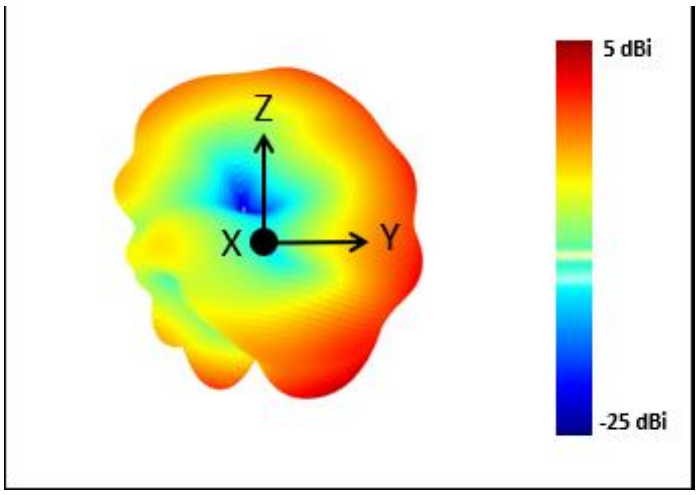
Signature : Matt Wu

3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

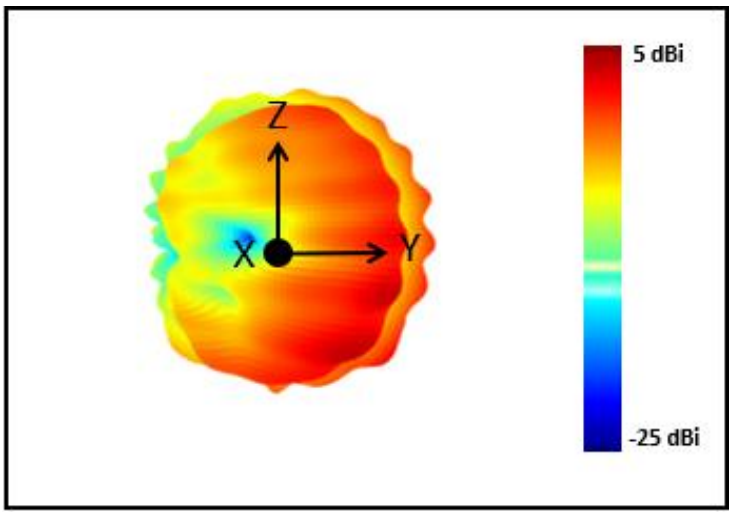
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.88



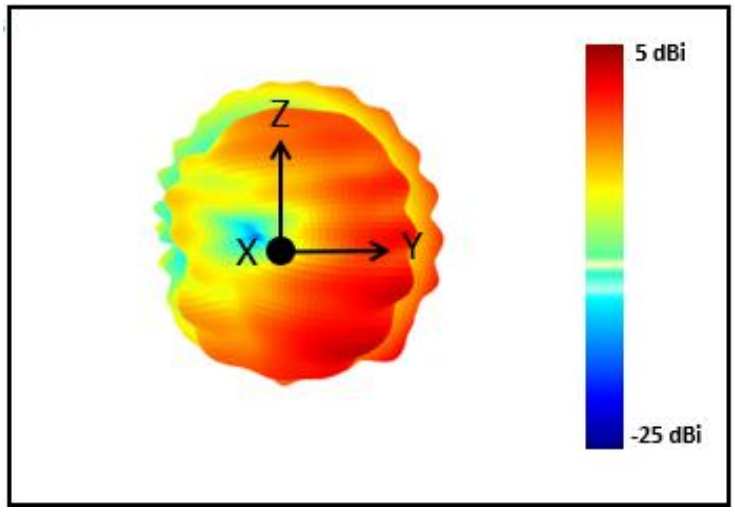
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	4.02



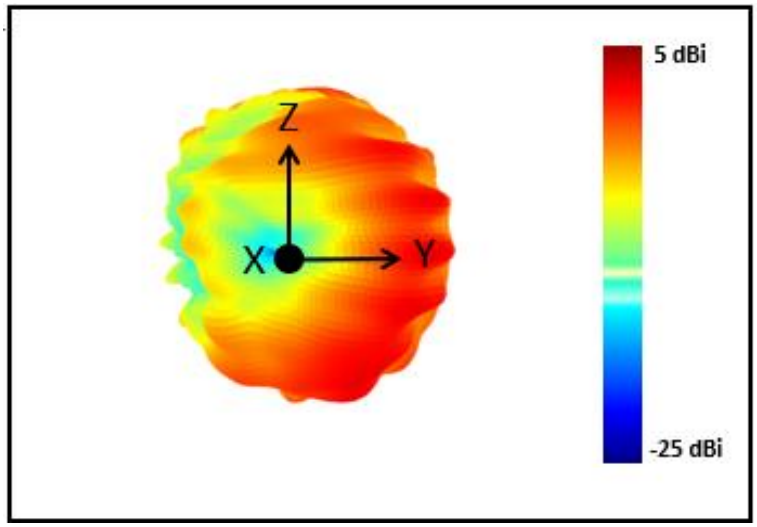
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	4.01



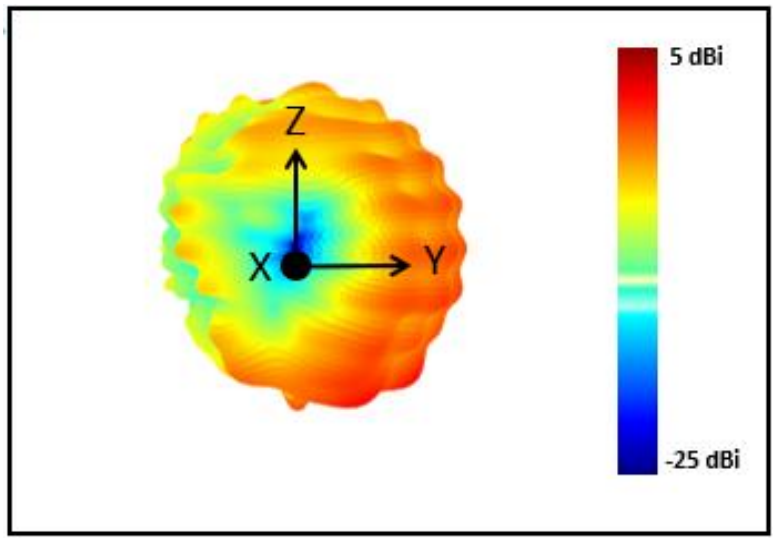
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	4.26



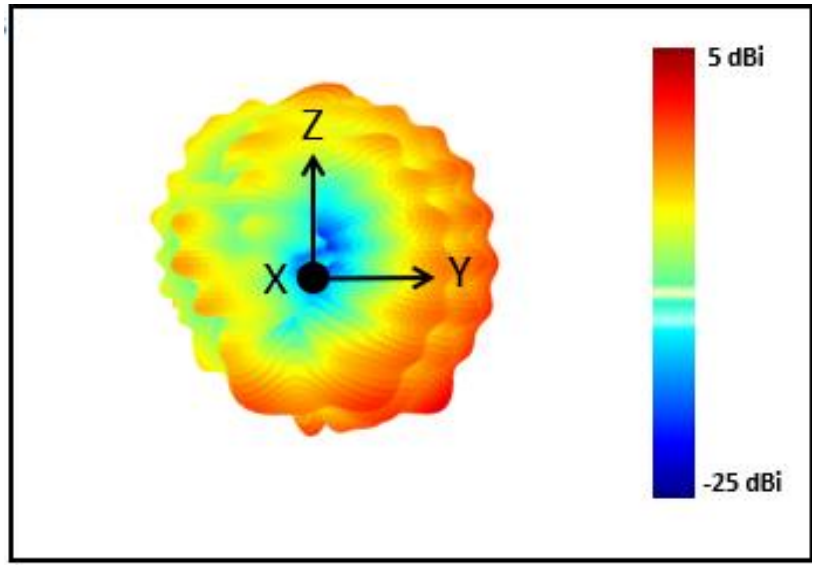
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.1



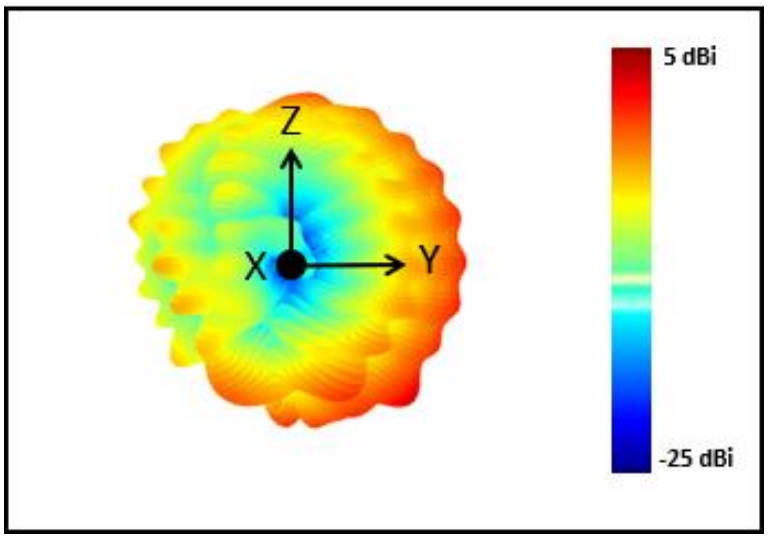
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.95



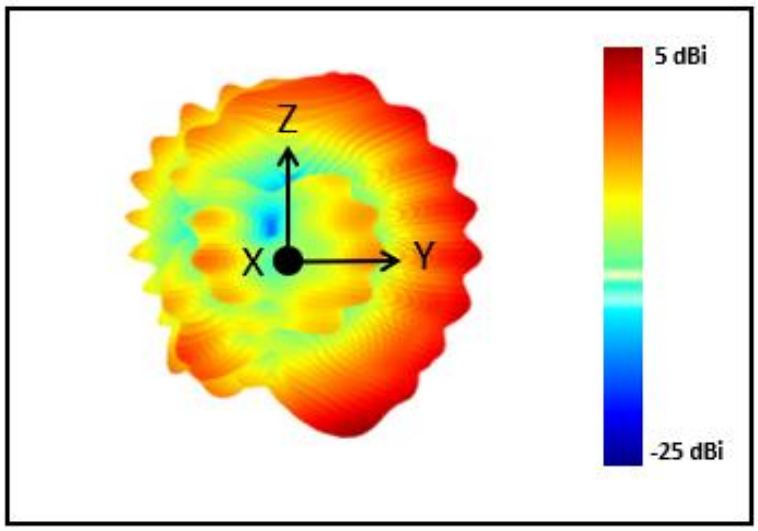
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.46



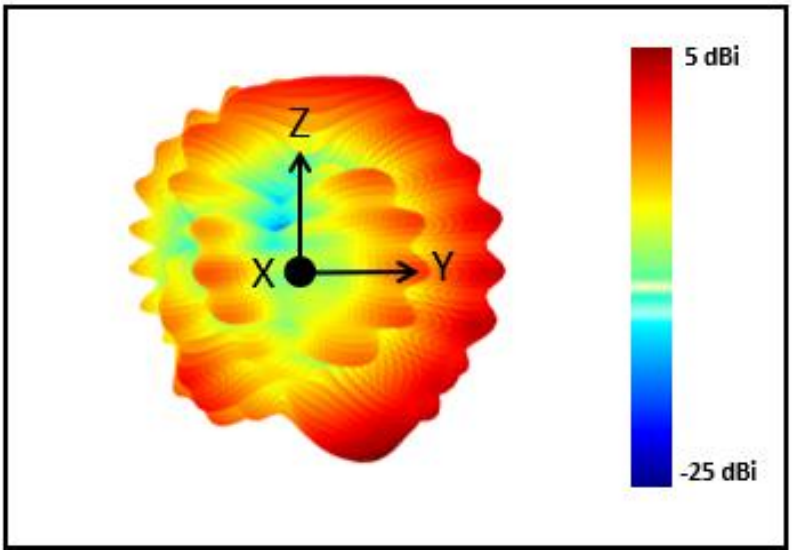
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.49



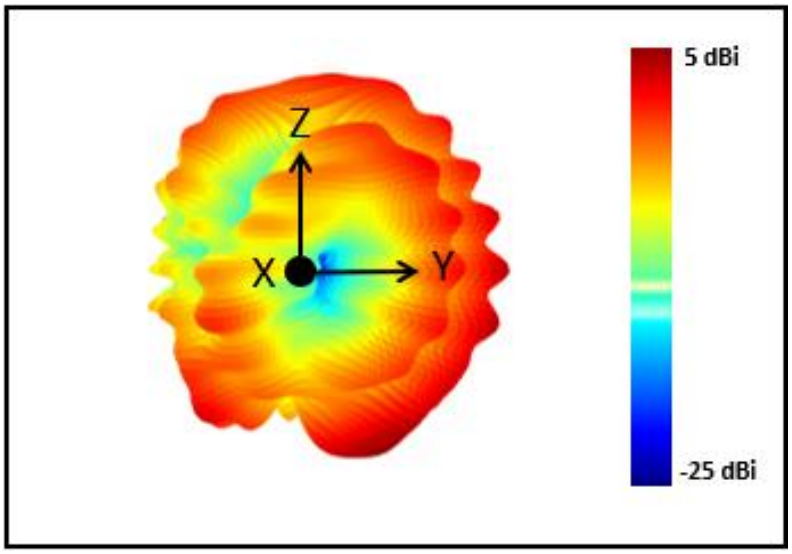
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	4.42



Max Antenna 3D Radiation Pattern 6875-7125 MHz

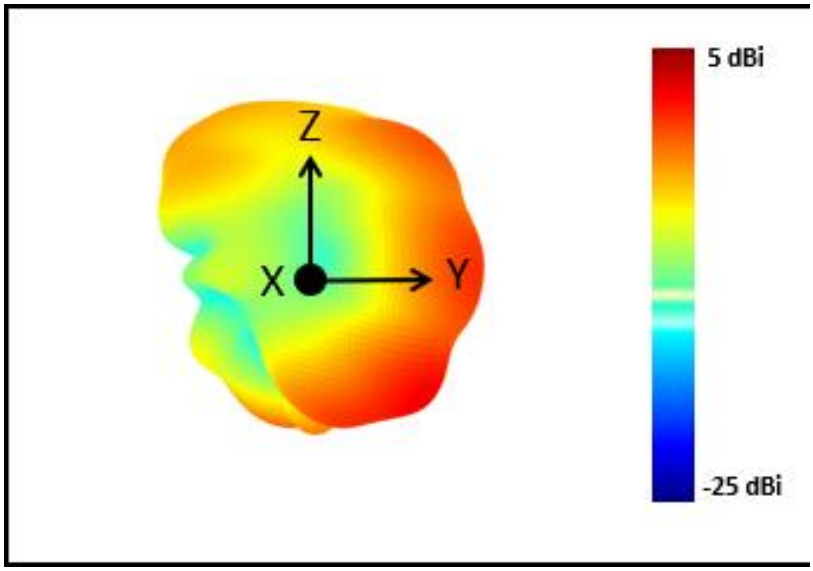
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	4.45



Auxiliary Antenna

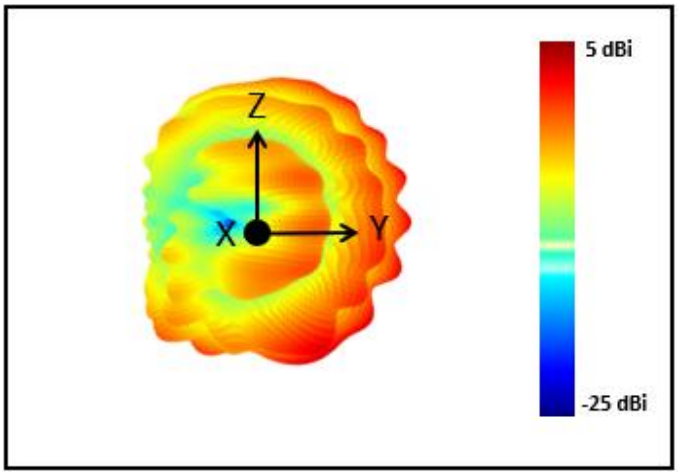
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	-0.55



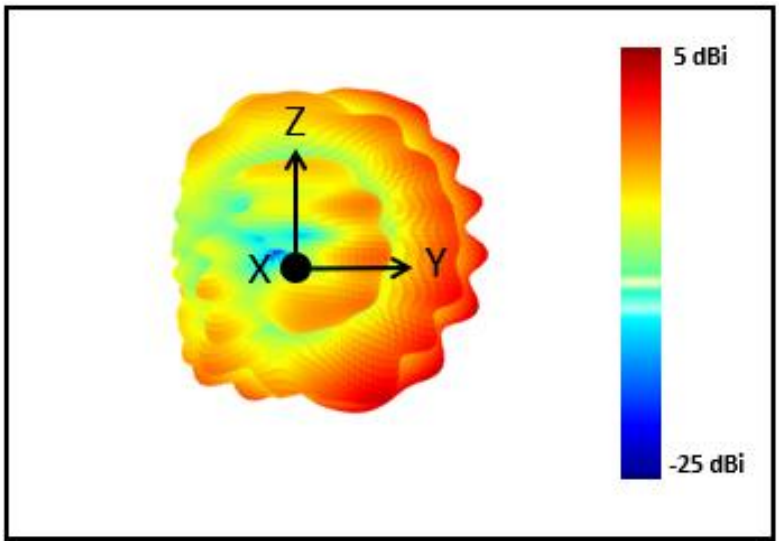
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	3.94



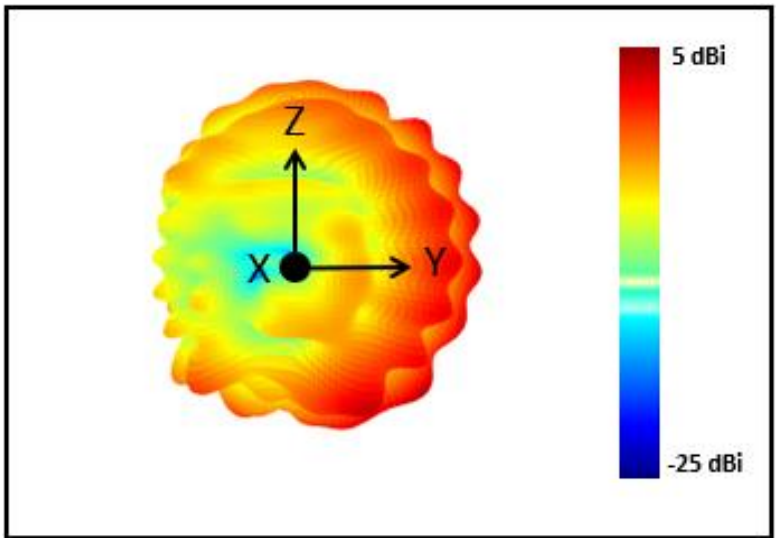
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.8



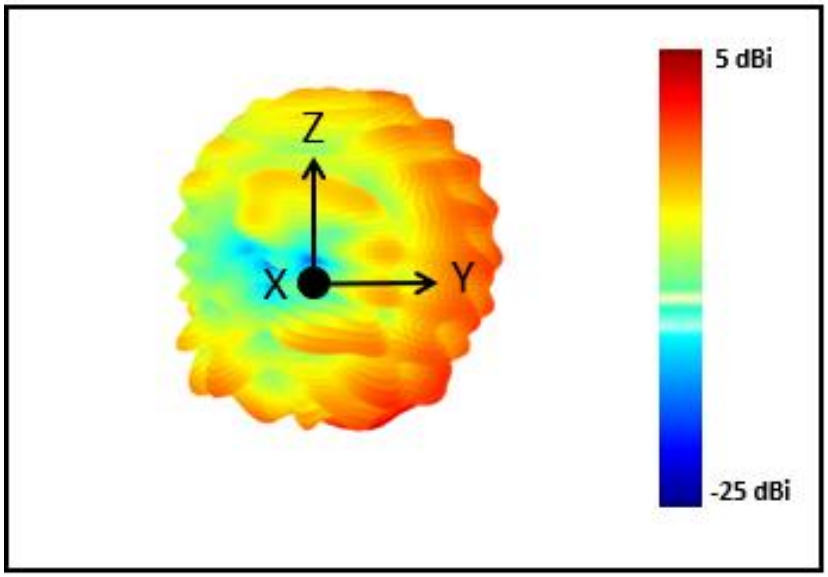
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	4.09



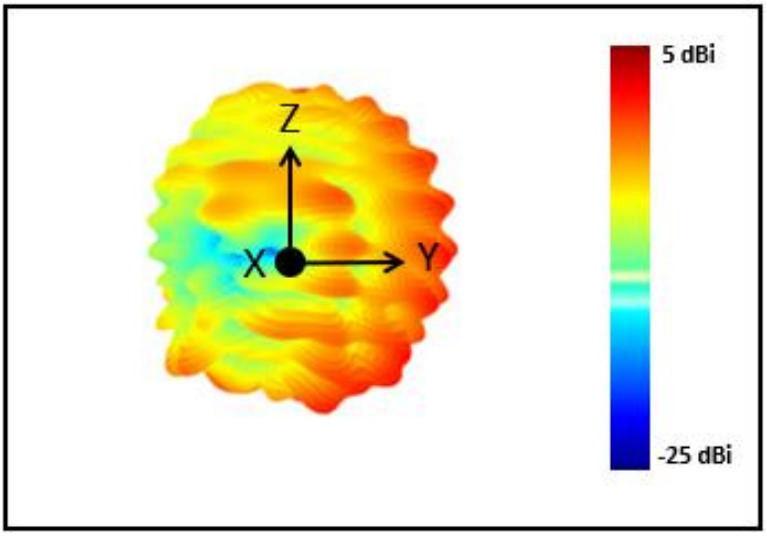
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.09



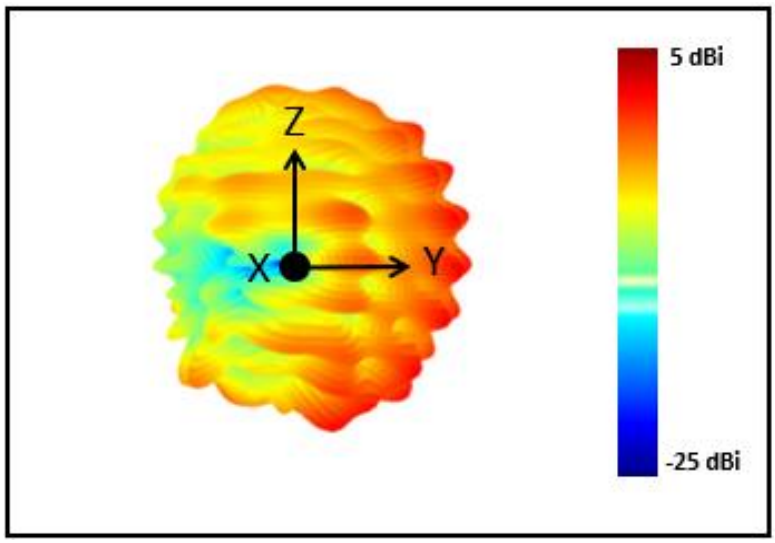
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.94



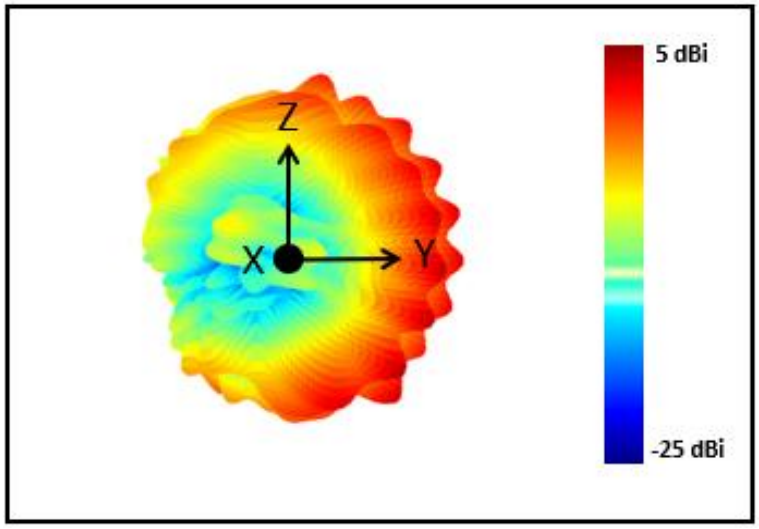
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.35



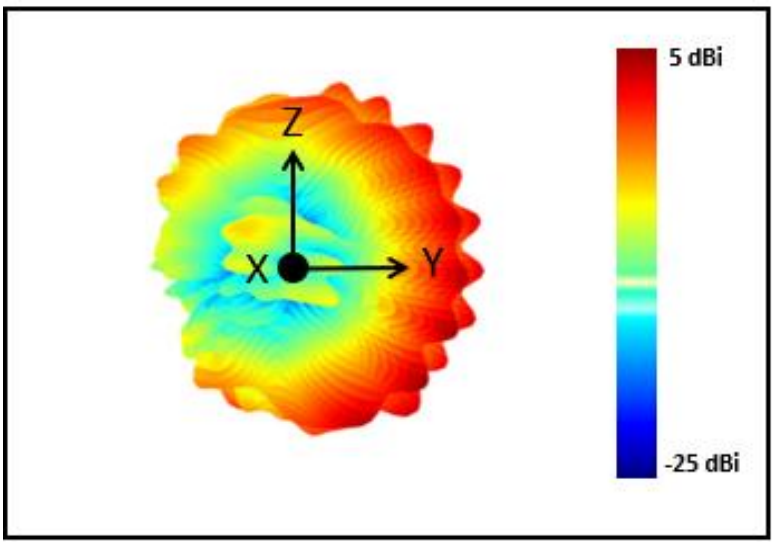
Max Antenna 3D Radiation Pattern 6425-6525 MHz

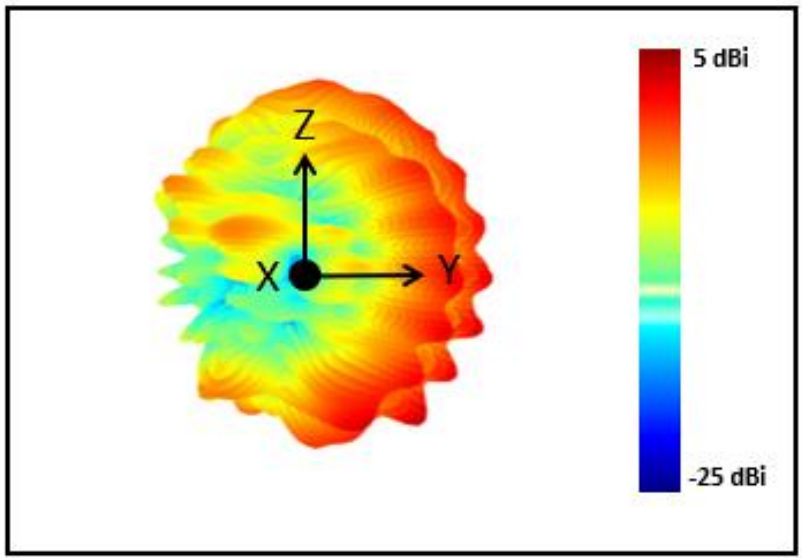
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.38



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	4.34



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.99