

Datasheet

Ivoclar Vivadent

Part No:
GW.05.K.001

Description

GW.05.0153 + CAB.2660 + CAB.S75 Antenna and Cable Kit

Features:

Wi-Fi 2.4/5.8GHz
Extremely Compact - 62.3mm ± 1.5mm
Aesthetic look and feel
Unique can rotate 360 degrees and articulate through 180 degrees
CE Certified
RoHS & Reach Compliant

1.	Introduction	3
2.	Specification	4
3.	Antenna Characteristics	5
4.	Radiation Patterns	9
5.	Mechanical Drawing	16
6.	Mounting Guidelines	17
	Changelog	18

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1. Introduction



This Antenna and cable assembly has been designed for Ivoclar.

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2. Specification

Wi-Fi Electrical								
Band	Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
Wi-Fi - 2GHz	2400-2500	33.1	-4.80	1.46	50 Ω	Linear	Omni	2W
Wi-Fi - 5GHz	5150-5850	21.5	-6.67	2.76				

Mechanical	
Antenna Lenth	62.3mm
Antenna Diameter	10mm
Antenna Casing	POM
Connectors	See Mechanical Drawing
Cables	See Mechanical Drawing
Antenna Weight	6g

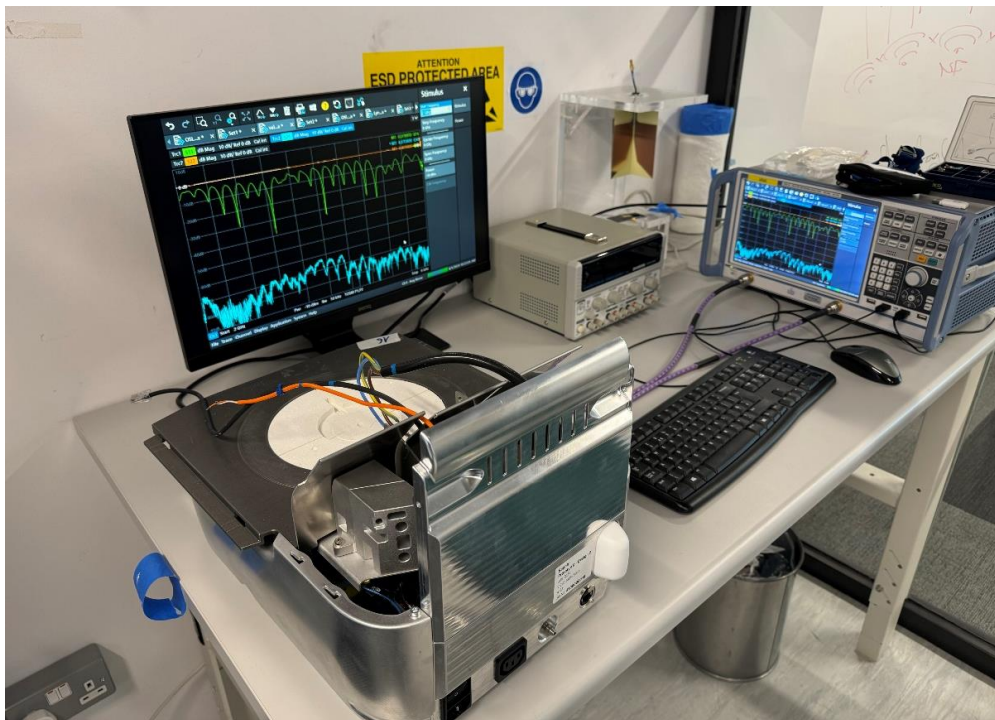
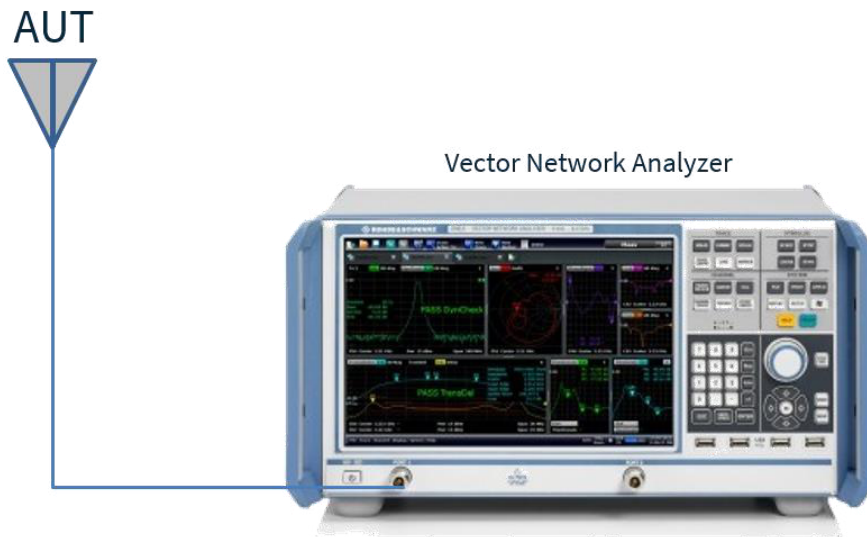
Environmental	
Operation Temperature	-40°C ~ + 85°C
Storage Temperature	-40°C ~ + 85°C
Humidity	Non-condensing 65°C 95% RH

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3. Antenna Characteristics

3.1 Test Setup



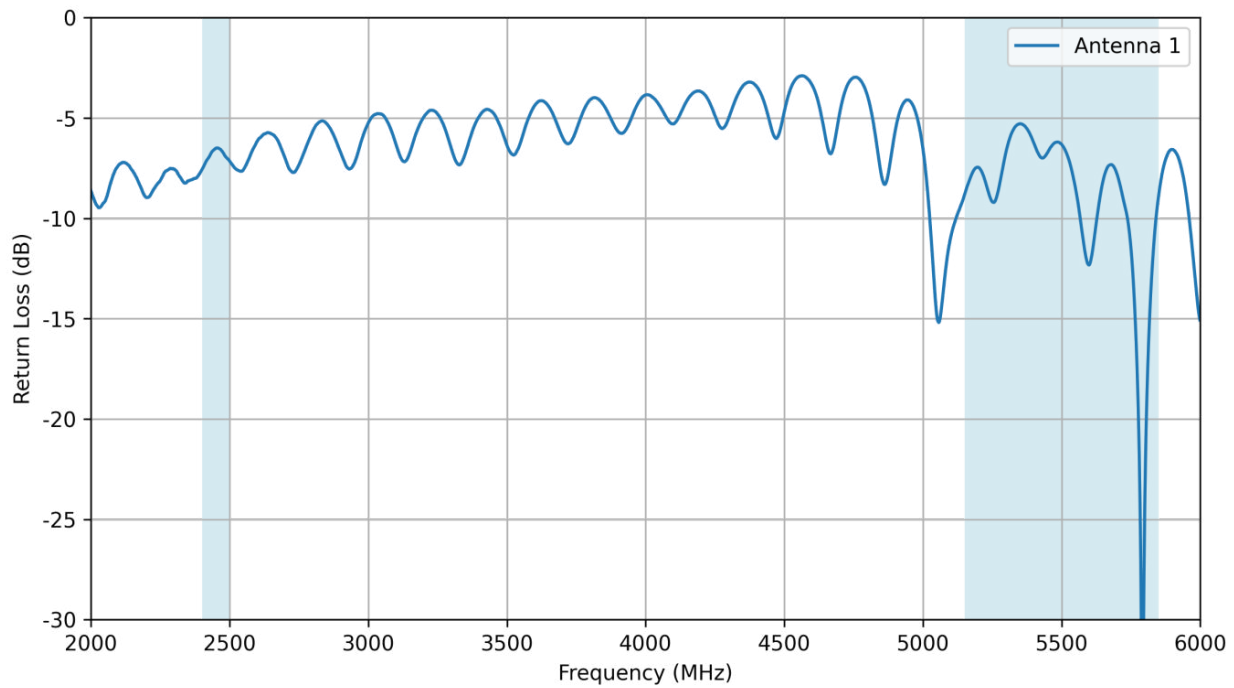
VNA test set-up of IvoClar device

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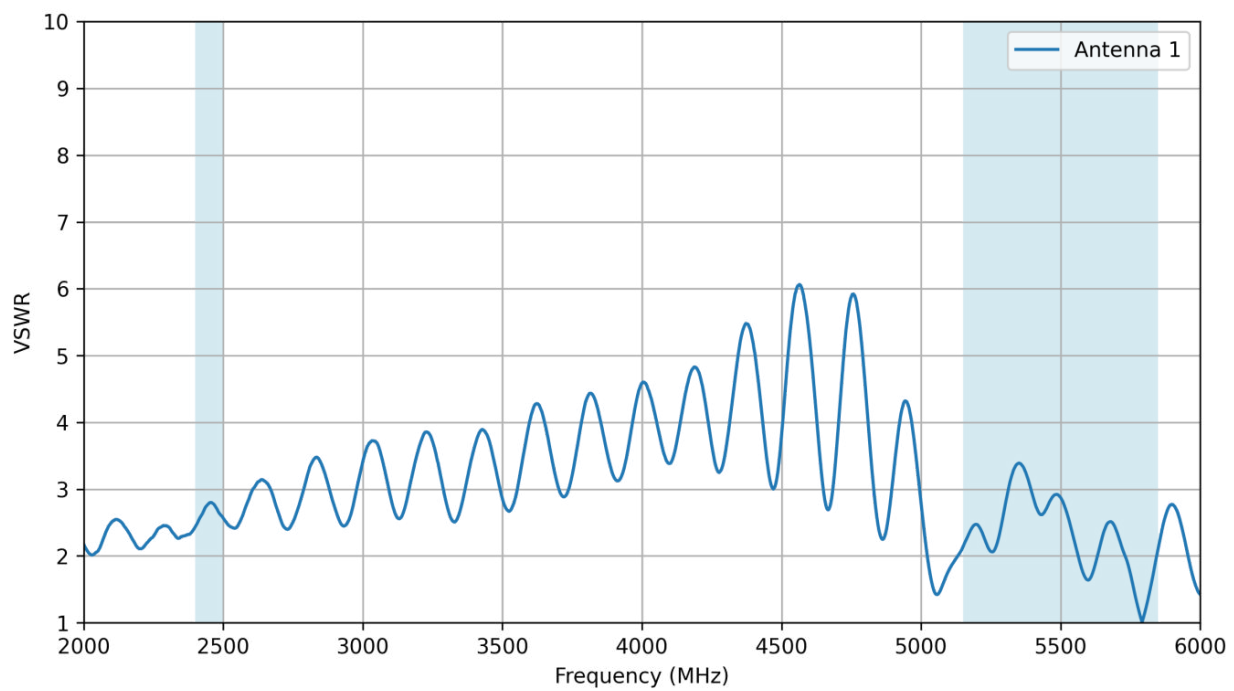
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3.2 Return Loss



3.3 VSWR

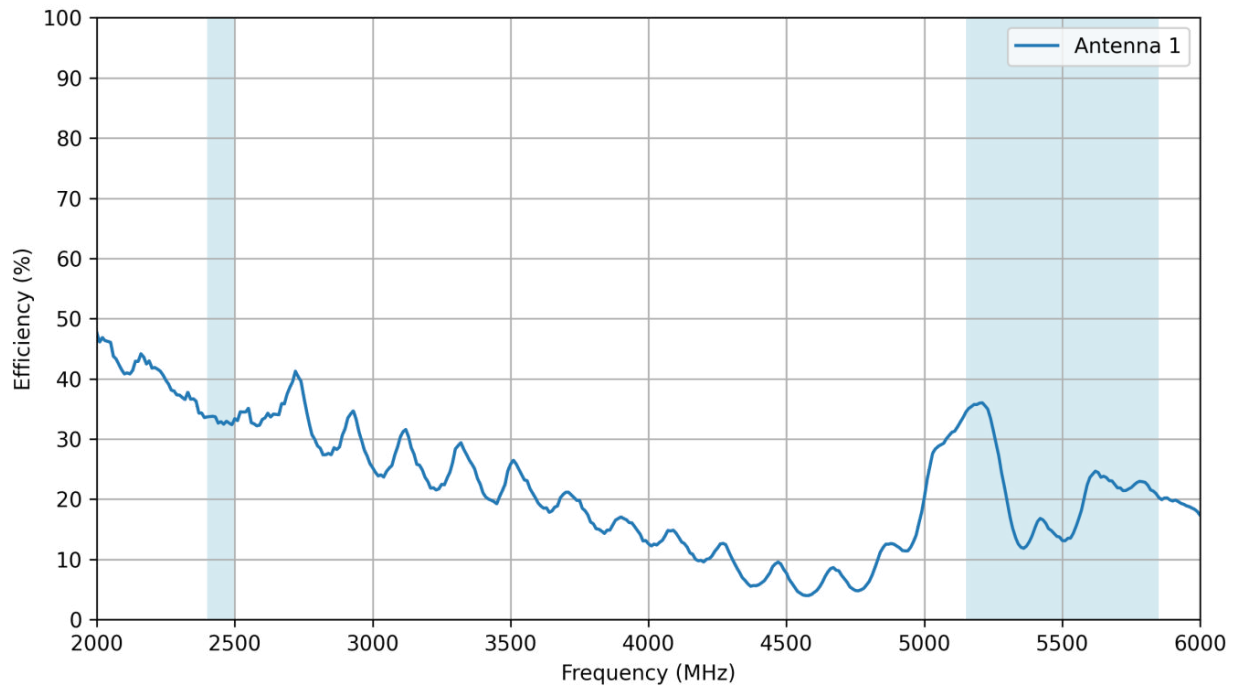


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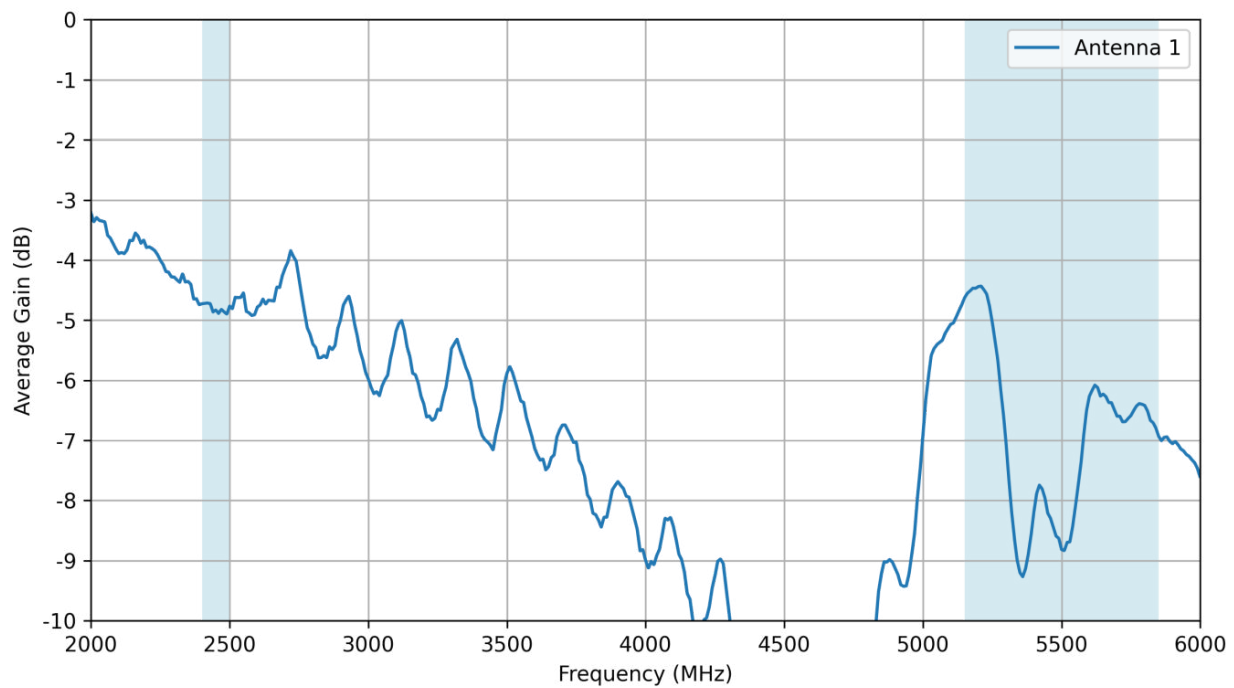
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3.4 Efficiency



3.5 Average Gain

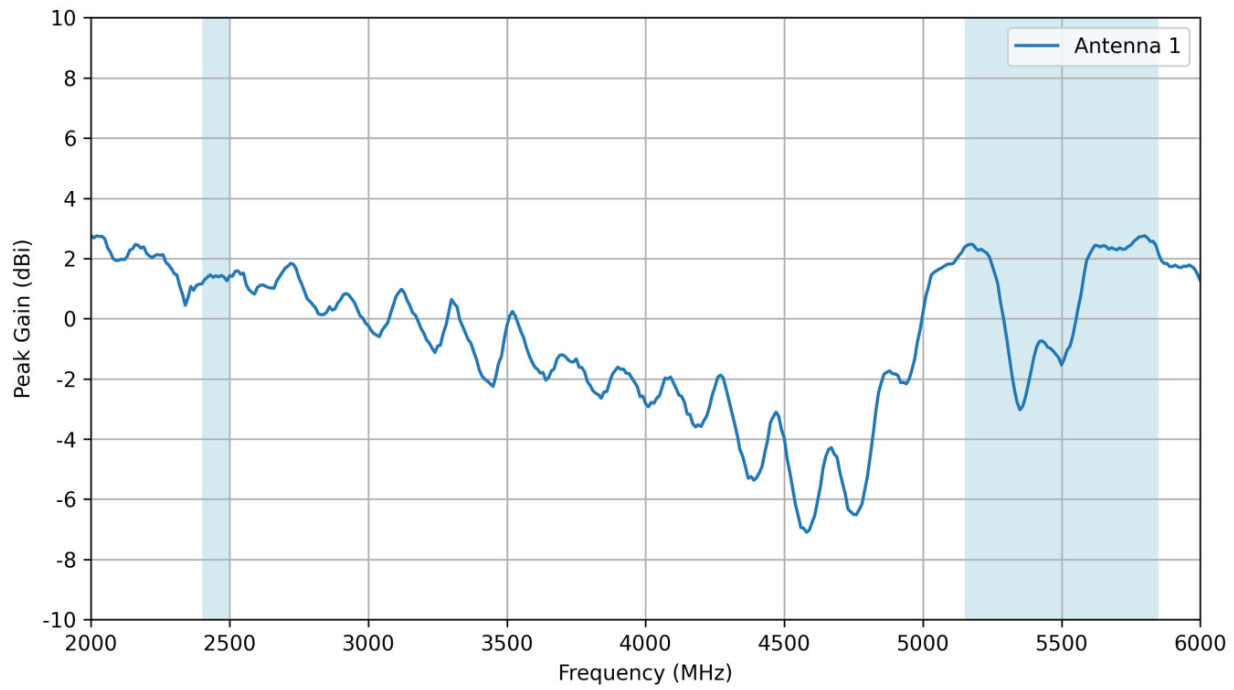


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3.6 Peak Gain



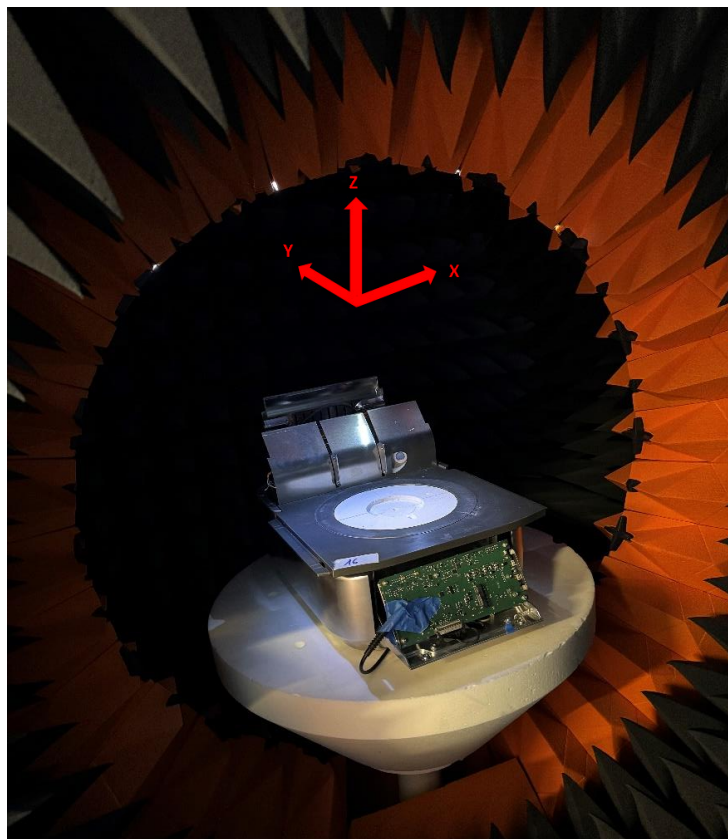
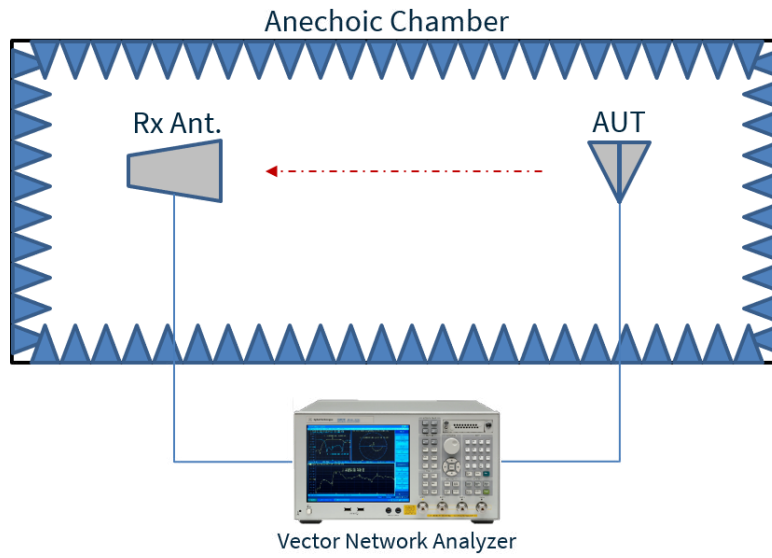
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4. Radiation Patterns

4.1 Test Setup



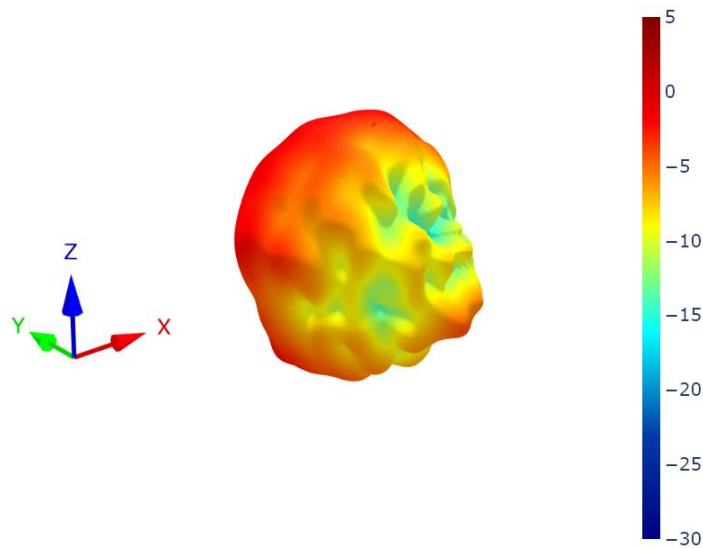
Chamber test set-up of Ivo Clar device

Change Number: N/A

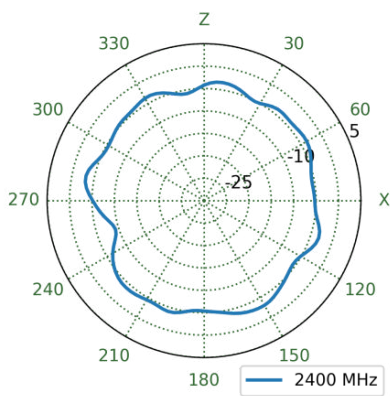
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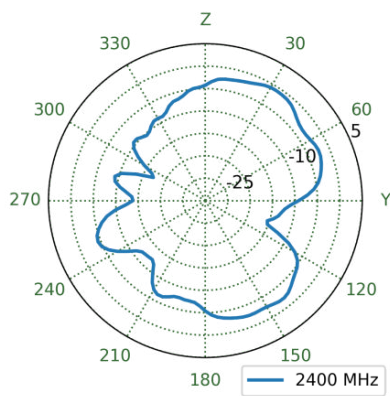
4.2 Patterns at 2400 MHz



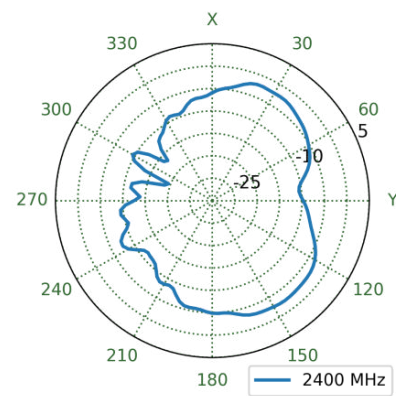
XZ Plane



YZ Plane



XY Plane



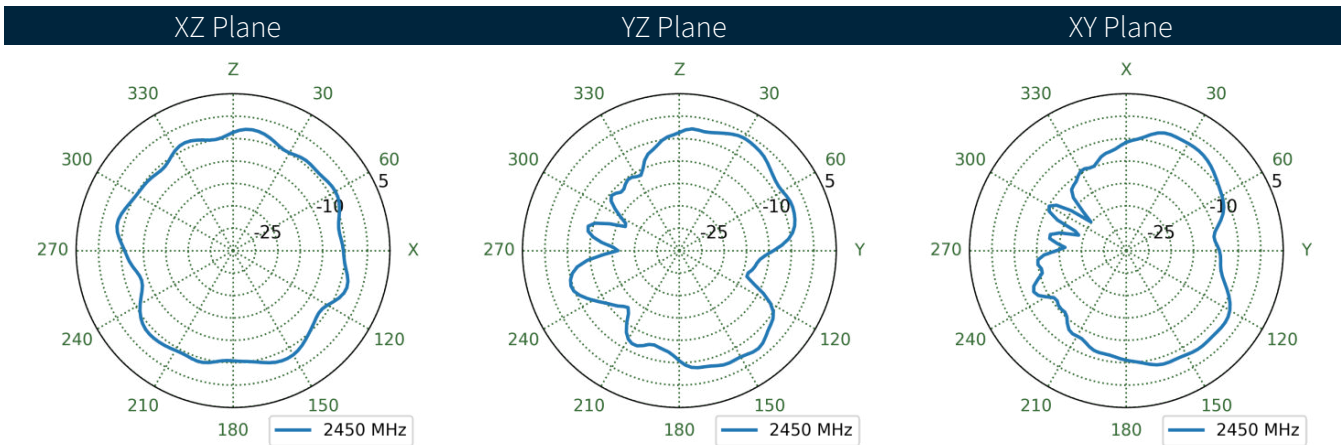
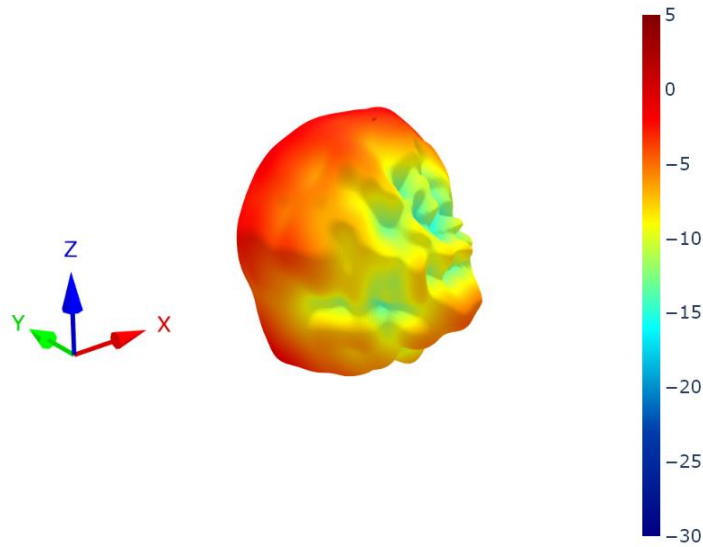
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4.3 Patterns at 2450 MHz

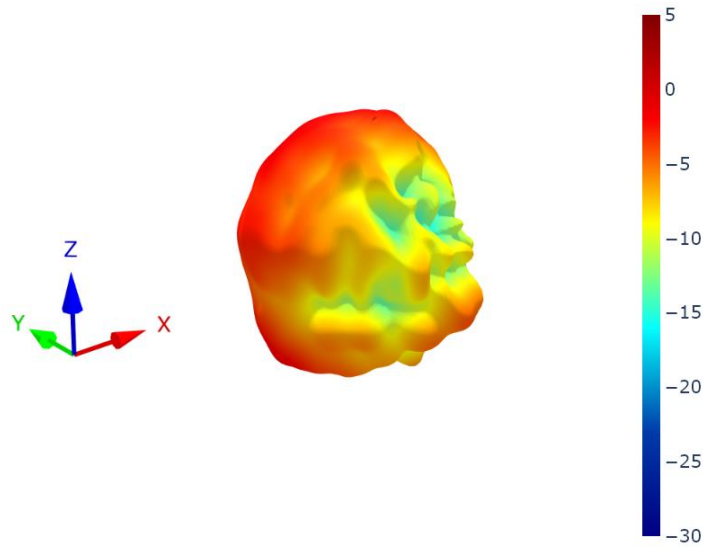


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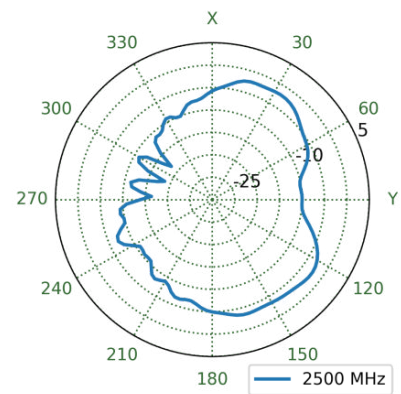
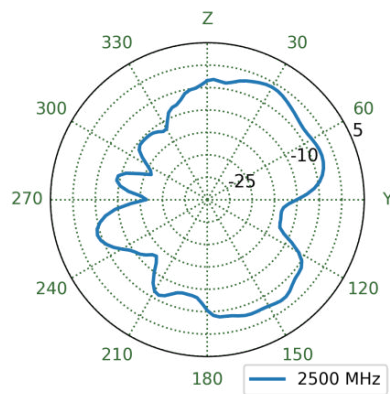
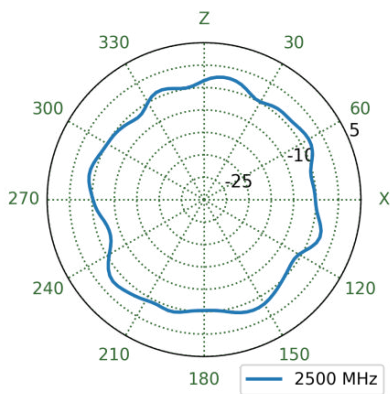
4.4 Patterns at 2500 MHz



XZ Plane

YZ Plane

XY Plane

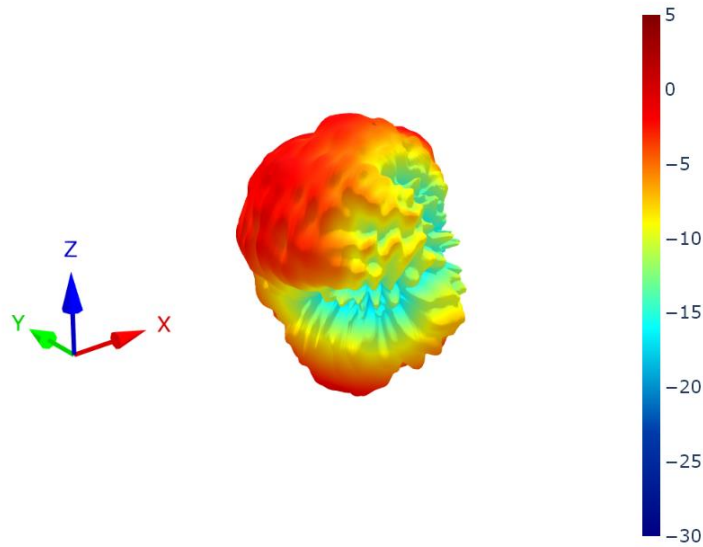


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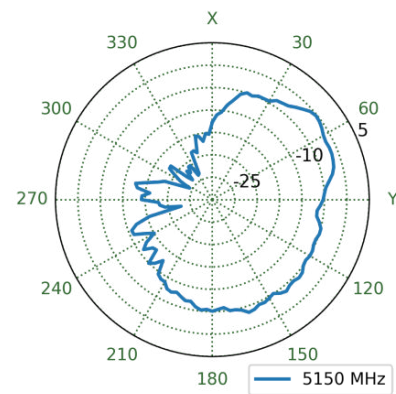
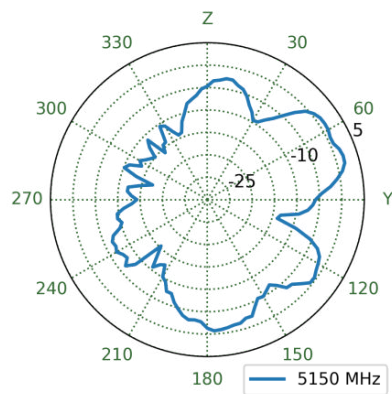
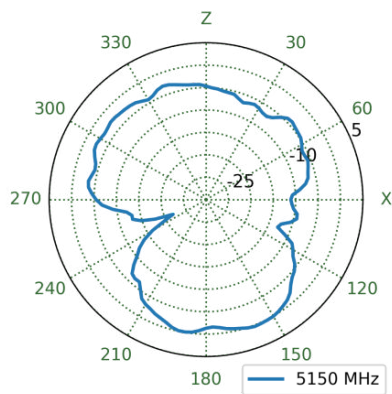
4.5 Patterns at 5150 MHz



XZ Plane

YZ Plane

XY Plane

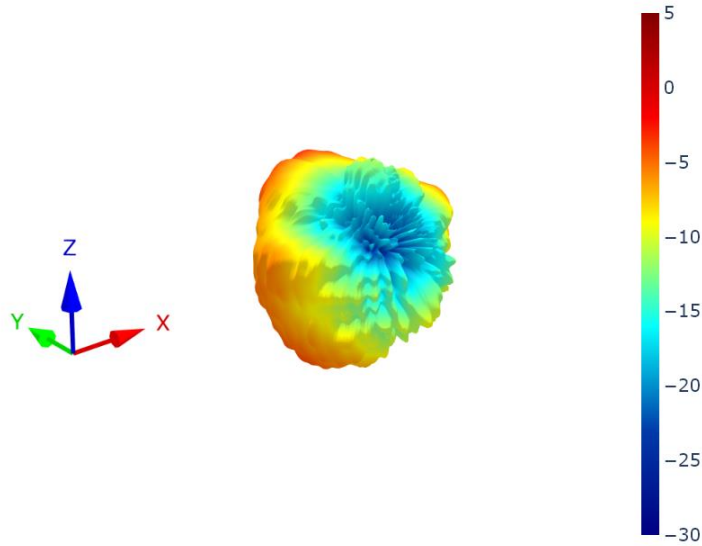


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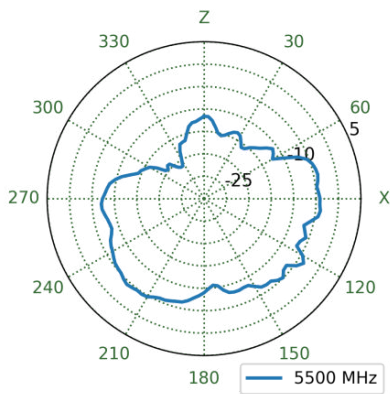
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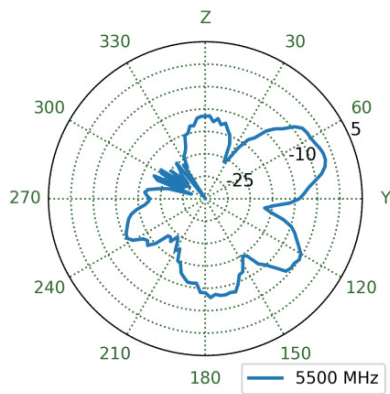
4.6 Patterns at 5500 MHz



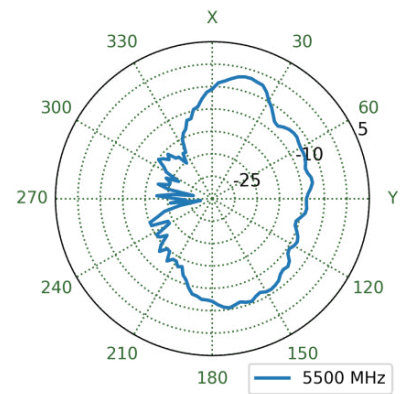
XZ Plane



YZ Plane



XY Plane

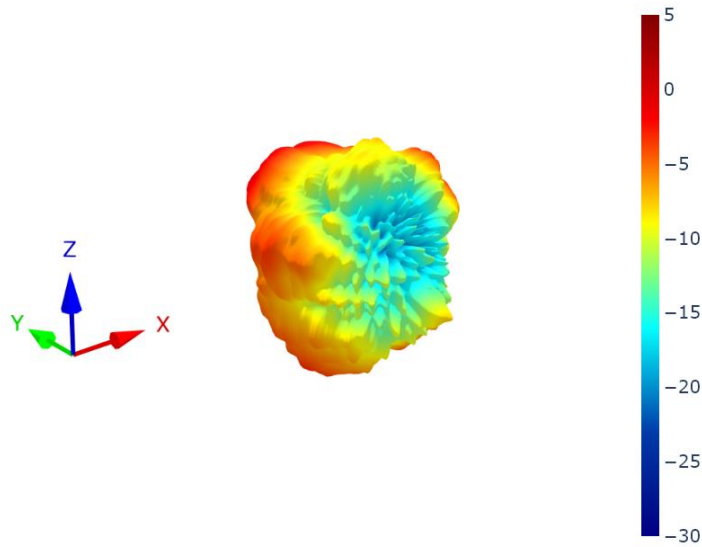


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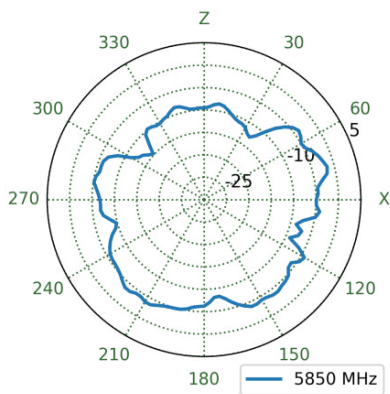
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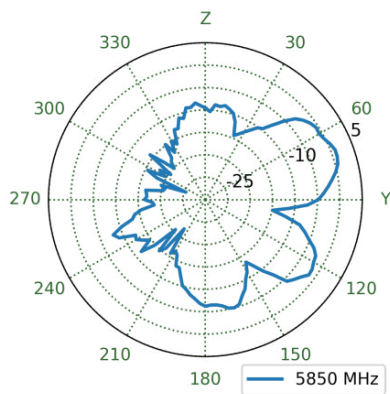
4.7 Patterns at 5850 MHz



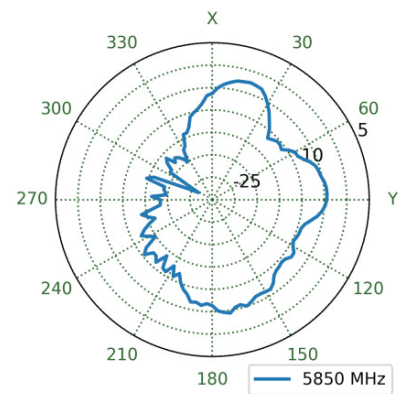
XZ Plane



YZ Plane



XY Plane



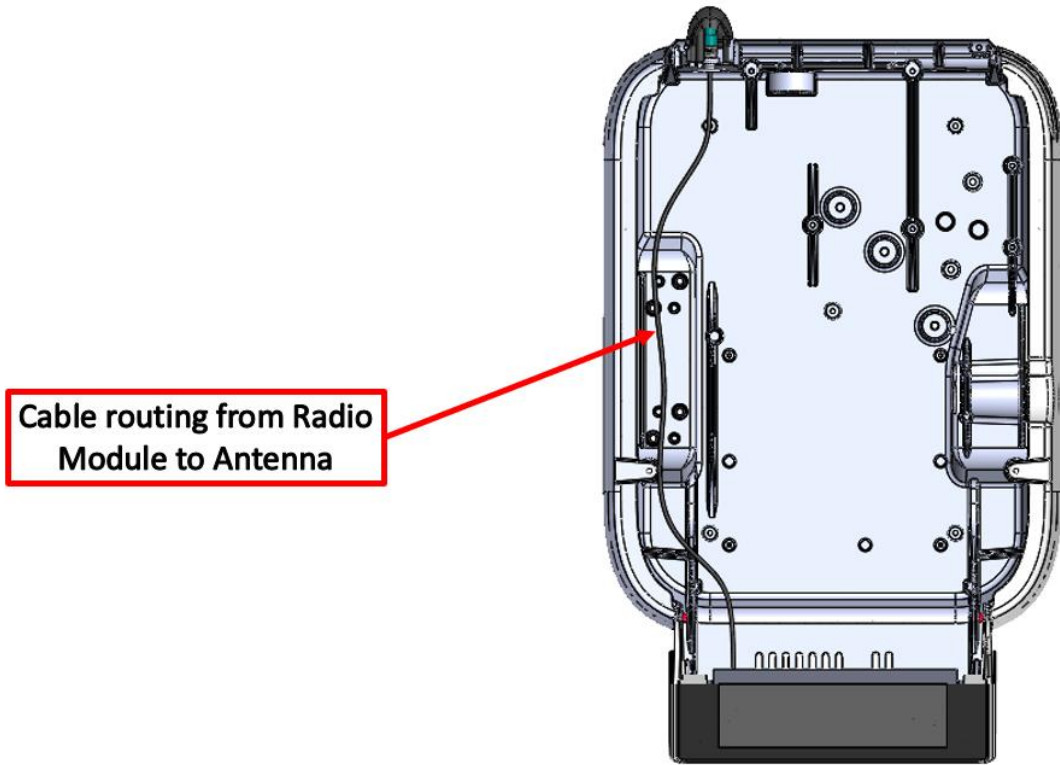
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6. Mounting Guidelines



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Changelog for the datasheet

SPE-23-8-285- GW.05.K.001

Revision: B (Current Version)	
Date:	2024-08-01
Notes:	Test data updated and addition of Mounting Guidelines.
Author:	Gary West

Previous Revisions

Revision: A (Original First Release)	
Date:	2024-08-01
Notes:	Initial Release
Author:	Gary West

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