

ANTENNA INFORMATION

OEM	Acer
ODM	Huaqin Technology Co.,Ltd.
Platform model name	N25H8, D723N, D723NL, CW311-3HN, CW311-3WN
Intel platform (ex: Yes, No or NA)	No
Platform type (ex: regular NB, convertible PC, AIO...etc)	Regular PAD
SAR minimum separation (mm)	FCC (1g) 3.8
	ISED (1g) 3.8
	ISED (10g) 3.8

Antenna manufacturer	Company name	AWAN
	Address	No.925 Huayuan Road,Zhangpu Town,Kunshan City,Jiangsu Province
Test location	Company name	AWAN
	Address	No.925 Huayuan Road,Zhangpu Town,Kunshan City,Jiangsu Province
Test Personnel	Name(Full name)	Wang.kai
	E-mail	Alan.wang@awan-ant.com
	Tel/Mobile	13038487763
Testing date		2025/02/20

Antenna Part number	Main	AYL6Y-100260
	Aux	AYL6Y-100261
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
Main	1.96	2.38	2.51	1.36	2.74
Aux	1.81	2.64	2.42	2.31	1.87

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	YCB00113-V000916	45	1.13	50	IPEX MHF4L
Aux	YCB00113-V020916	170	1.13	50	IPEX MHF4L

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

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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
Design	EU/UK	3.00	5.00	5.00	5.00	5.00
PIFA	For WiFi 6E and earlier	3.24	3.64	3.73	4.77	4.97
	From WiFi 7	2.95	5.11	4.55	5.15	5.13
Dipole	For WiFi 6E and earlier	2.89	2.92	3.19	4.41	4.22
	From WiFi 7	2.95	4.03	4.11	5.15	5.13
Monopole	From WiFi 7	2.83	4.57	4.44	4.95	4.95

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

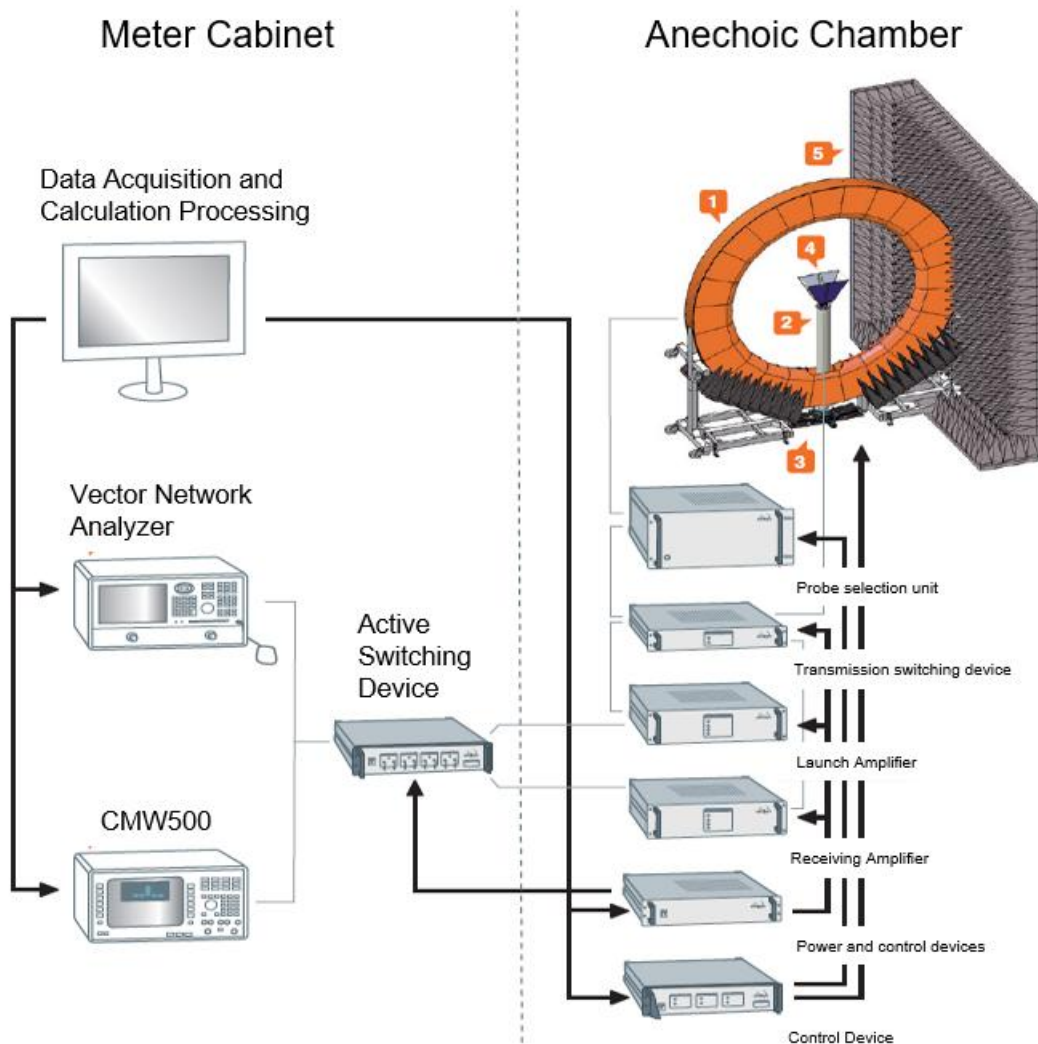
Revision #	Revision Details	Issued Date
Rev. 00	First Issue	2025.02.20

3. Test & System Description

3.1 Measurement Method and System

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

3.2 Test setup



3.3 Equipment list

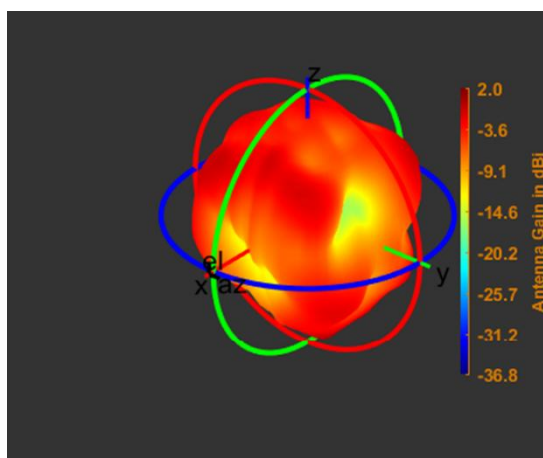
Number	Devic	Manufacturer	Cal.Date	Cal.Due.Date
1	Chamber	SATIMO	2024/10/28	2025/10/27
2	Hron Antenna	EM-Pro	2024/10/28	2025/10/27
3	Notwork Analyzer	Keysight	2024/3/12	2025/3/11
4	TX/RX Amplifier	EM-Pro	2024/10/28	2025/10/27
5	Probe Switcher	EM-Pro	2024/10/28	2025/10/27
6	Turntable Controller	EM-Pro	2024/10/28	2025/10/27
7	UPS	SANTAK	NA	NA
8	Test System Host	SATIMO	NA	NA

4. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

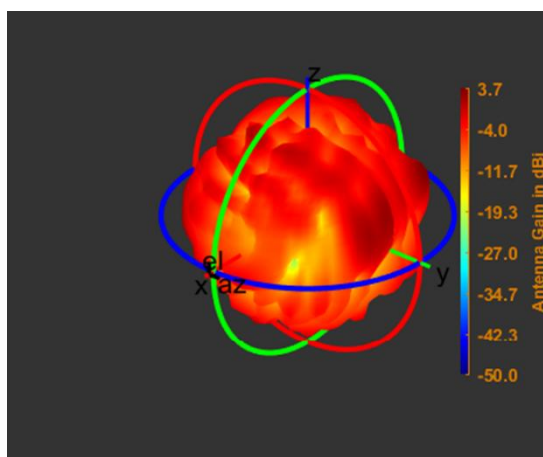
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.96



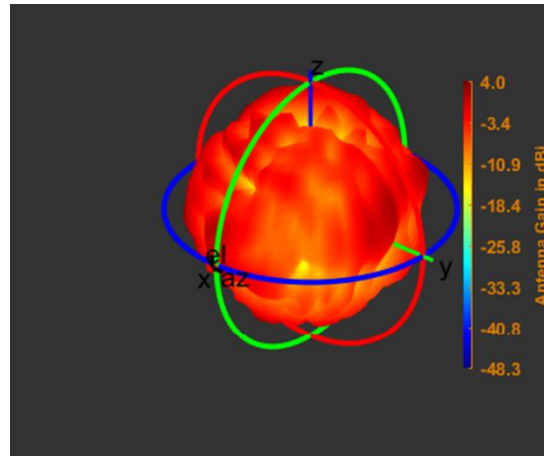
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.38



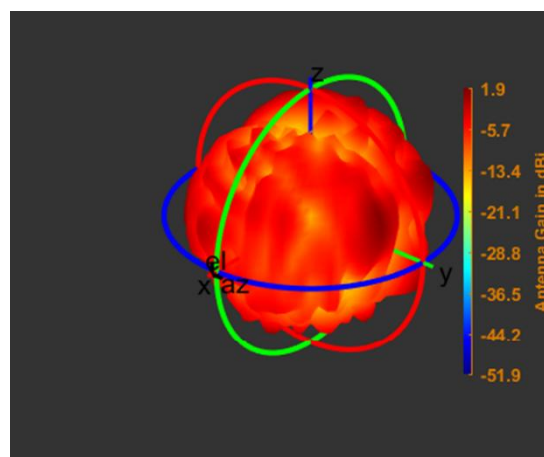
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.51



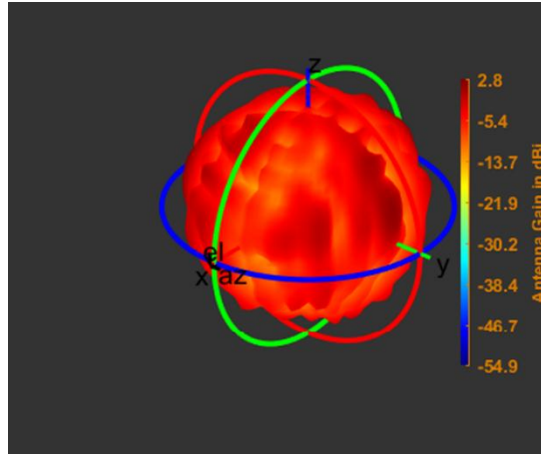
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	1.36



Max Antenna 3D Radiation Pattern 5725-5850 MHz

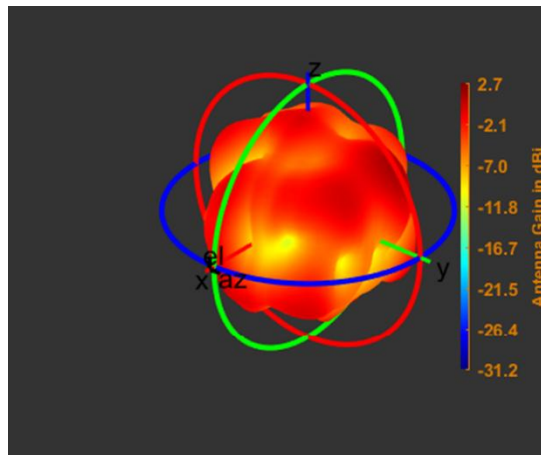
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.74



Auxiliary Antenna

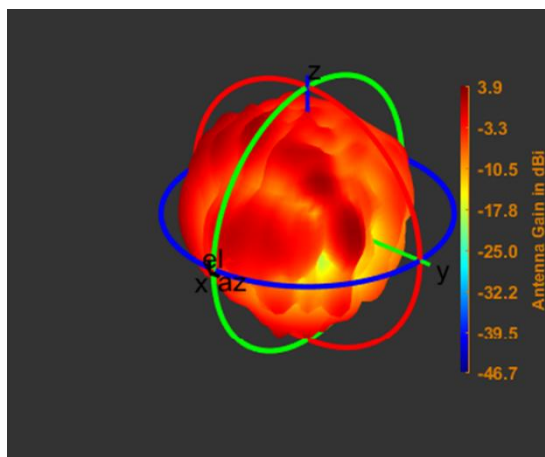
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.81



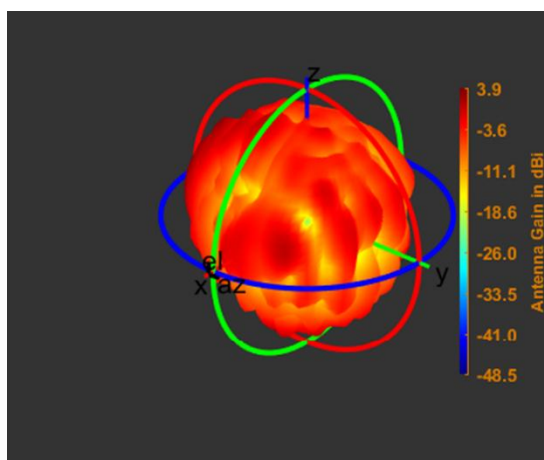
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.64



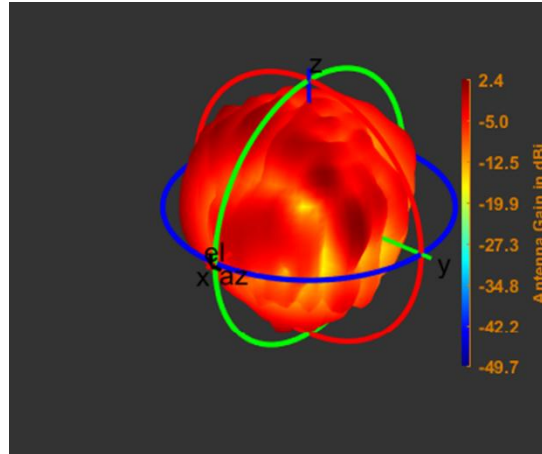
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.42



Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.31



Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	1.87

