

ANTENNA INFORMATION

OEM	ASUS
ODM	Huaqin
Platform model name	P5605CAA, V5605CAA
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO...etc)	Regular NB
SAR minimum separation (mm)	FCC (1g) ISED (1g) ISED (10g)

Antenna manufacturer	Company name	LUXSHARE-ICT
	Address	7F, No. 568, Sec.1, Minsheng N. Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Test location	Company name	LUXSHARE-ICT
	Address	7F, No. 568, Sec.1, Minsheng N. Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Test Personnel	Name(Full name)	Michael Pan
	E-mail	Michael.Pan@luxshare-ict.com
	Tel/Mobile	0933019915
Testing date		2024/11/01

Antenna Part number	Main	14008-06440000(LA9RF628-NB-H)
	Aux	14008-06440000(LA9RF628-NB-H)
Antenna type (ex: PIFA, Dipole...etc)		PIFA Antenna

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	2.85	2.55	2.70	2.92	0.85	0.61	2.23	2.15	3.14	3.60
Aux	2.68	3.00	3.00	1.82	1.82	1.78	3.70	3.70	2.96	3.85

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113L/50-055	274	1.13	50Ω	I-Pex NGFF (20565-001R-13)
Aux	SY113L/50-064	285	1.13	50Ω	I-Pex NGFF (20565-001R-13)

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

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1. Antenna Gain Requirement

Model	Antenna Type	Antenna Gain (dBi)		
		2.4G	5GHz	6GHz
RTL8821CE	Dipole	3.14	5	NA
RTL8822CE	PIFA	3.5	5	NA
RTL8852AE	Dipole	3	5	NA
RTL8852BE	PIFA	3.5	5	NA
	Monopole	3.38	4.81	NA
	Dipole	3	5	NA
RTL8851BE	PIFA	3.4	5	NA
	Monopole	3.2	4	NA
	Dipole	3	5	5
RTL8852CE	PIFA	3.5	5	5
	Monopole	3.38	4.81	4.86
	Dipole	3	5	5
RTL8922AE	PIFA	3.4	5	5
	Monopole	3.2	4	4.5

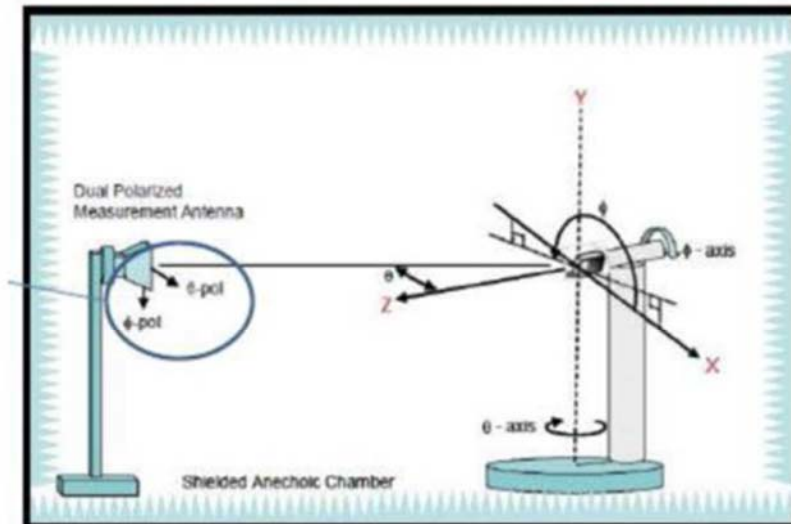
2. Document Revision History

Revision #	Revision Details	Issued Date
Rev. 00	First Issue	2024.11.01

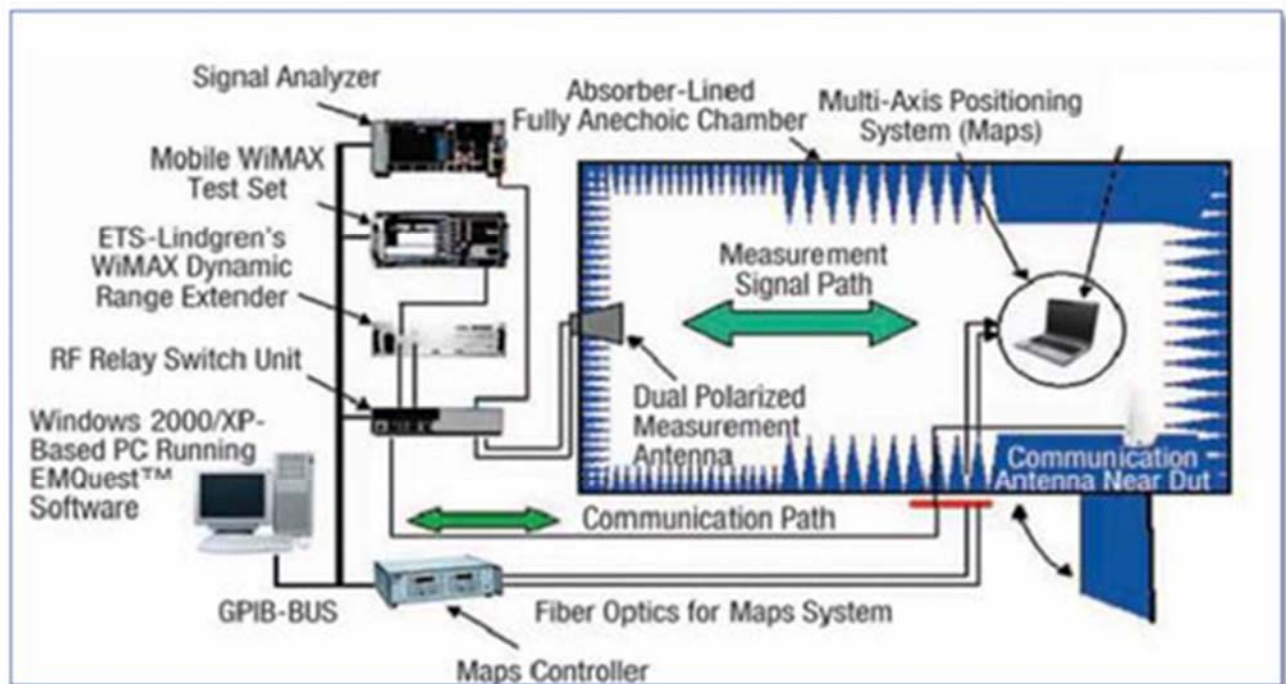
3. Test & System Description

3.1 Measurement Method and System

<insert test description here for test method>



3.2 Test setup



3.3 Equipment list

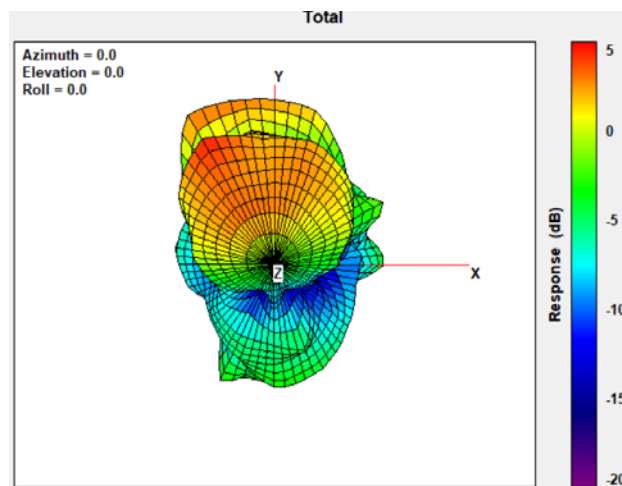
Device	Type/Model	Serial#	Manufacturer	Cal. Date	Cal. Due Date
Anechoic Chamber	AMS-8500	1191	ETS-Lindgren	2024/3/9	2026/3/9
Turn Table	2090	-	ETS-Lindgren	N/A	N/A
Switch & Positioning systems	7001-002	116599	ETS-Lindgren	N/A	N/A
Measurement SW	EMQuest v1.0.8	1352	ETS-Lindgren	N/A	N/A
Boresight antenna mast	2090	-	ETS-Lindgren	N/A	N/A
Spectrum Analyzer	N9010A	X16-96096	Agilent Technologies	2024/7/25	2026/7/25
Horn antenna	3164-08	00143257	ETS-Lindgren	2024/4/3	2026/4/3
Horn antenna + Amplifier + HPF6.4	115195	00117614	ETS-Lindgren	2024/8/1	2026/8/1
Cable 2.5m - 30MHz to 18GHz	0500990992500KE	19.23.395	Radial	2024/1/10	2026/1/10
Cable 1.2m - 18 to 40GHz	UFA147A-0-0480-200200	MFR 64639223720-003	Micro-caox	2024/1/10	2026/1/10
Cable 1m - 1GHz to 18GHz	UFA147A	-	Utileflex	2024/1/10	2026/1/10
Cable 2m - 26.5MHz to 40GHz	794-9191-200A	E00327	Atem	2024/1/10	2026/1/10
Cable 1m - 30MHz to 18GHz	UFB311A-0-0590-50U50U	MFR 64639223230-001	Micro-caox	2024/1/10	2026/1/10
Cable 7m - DC-18GHz	0501051057000GX	19.35.850	Radial	2024/1/10	2026/1/10
Cable 7m - 18GHz to 40GHz	R286304009	-	Radial	2024/1/10	2026/1/10
Cable 1.5m - DC-18GHz	CBL-1.5M-SMSM+	202879	Mini-Circuits	2024/1/10	2026/1/10
Temp & Humidity Logger	GM-108A	-		2024/5/2	2026/5/2

4. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

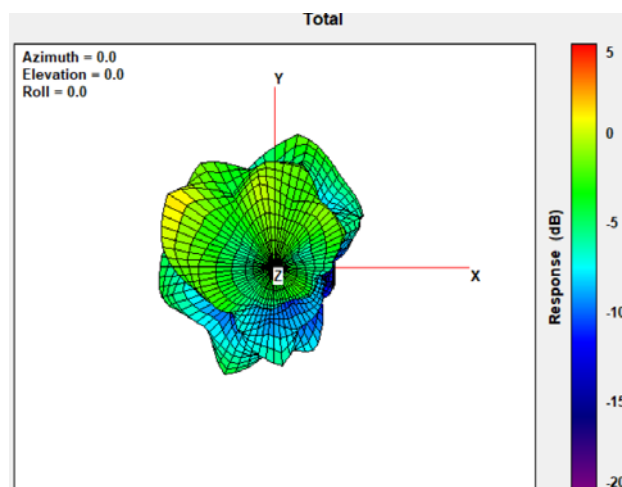
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.85



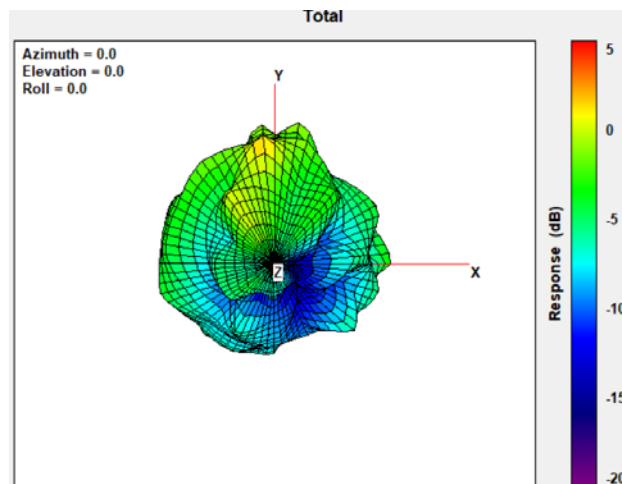
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.55



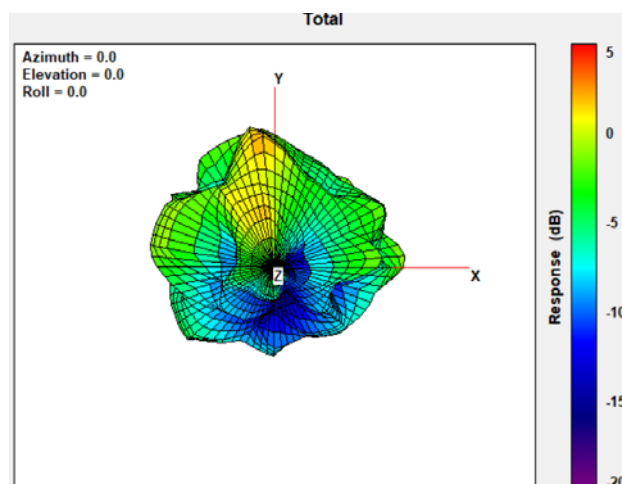
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.70



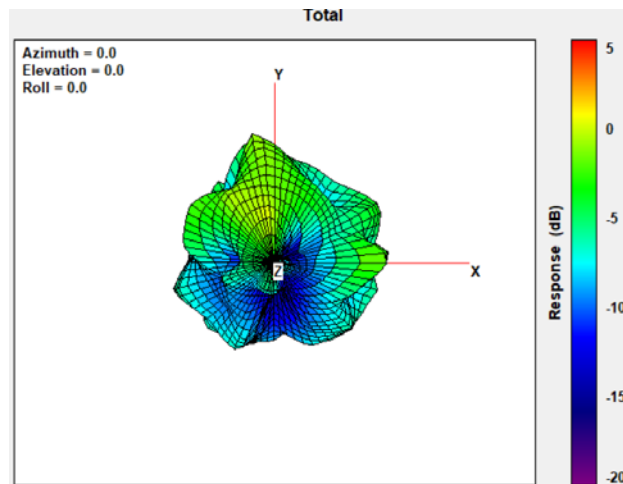
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.92



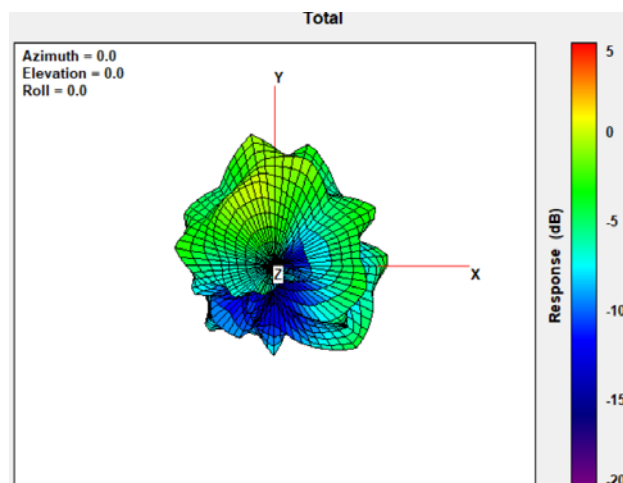
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	0.85



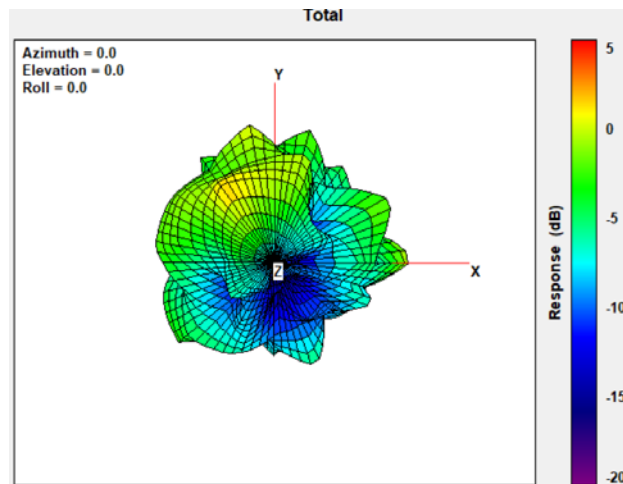
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	0.61



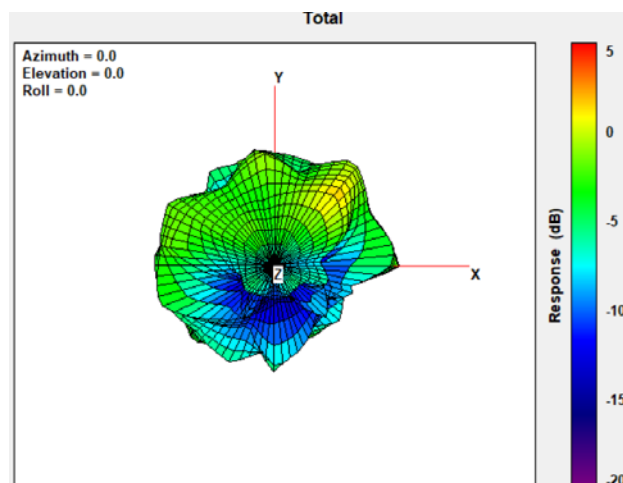
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.23



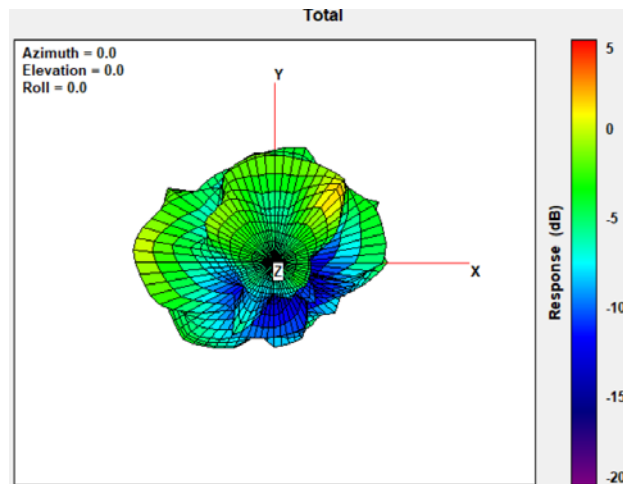
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.15



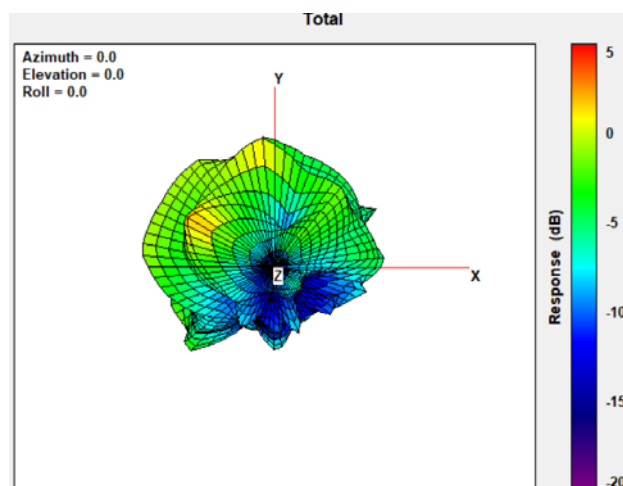
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.14



Max Antenna 3D Radiation Pattern 6875-7125 MHz

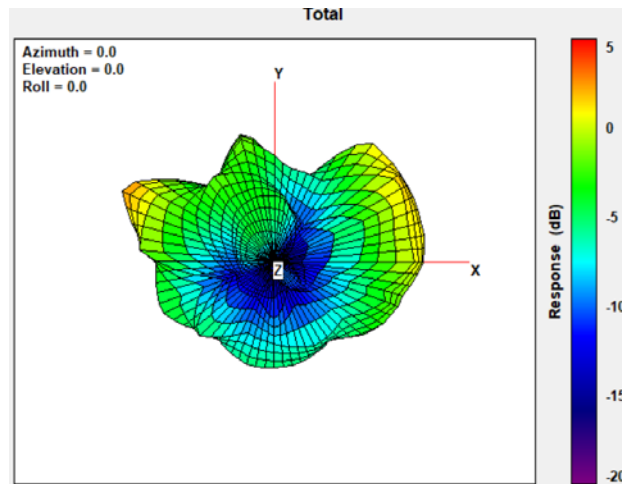
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.60



Auxiliary Antenna

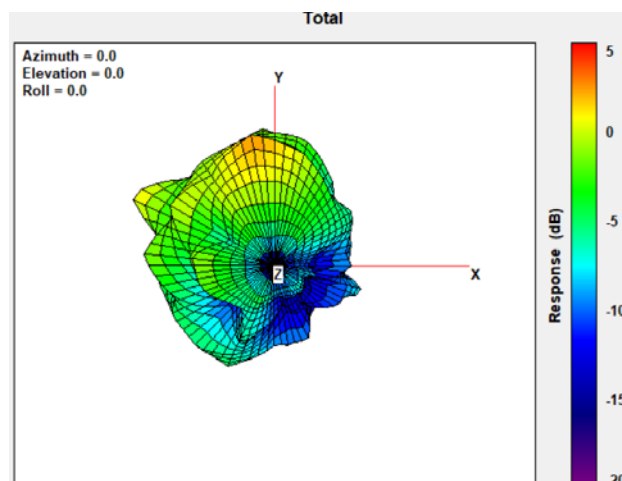
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.68



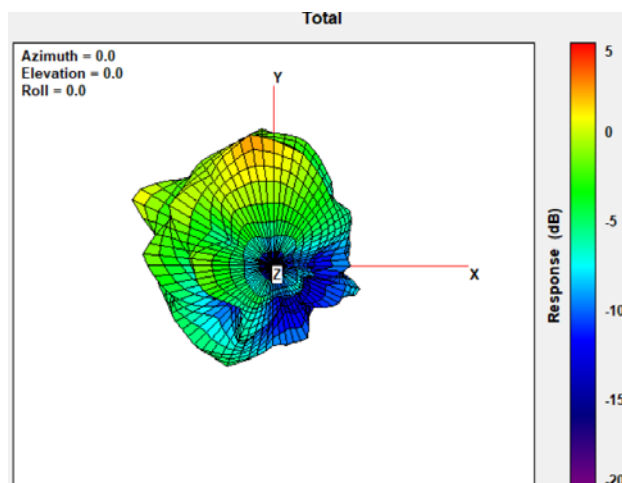
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	3.00



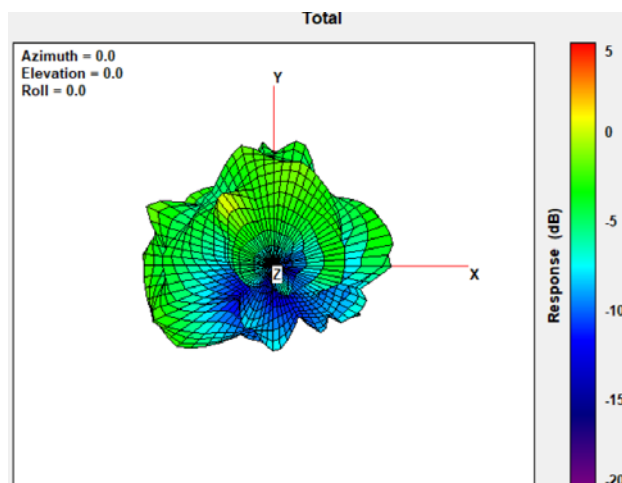
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.00



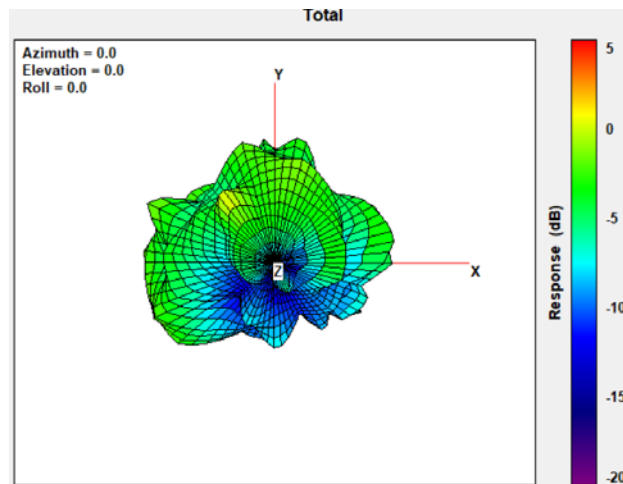
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	1.82



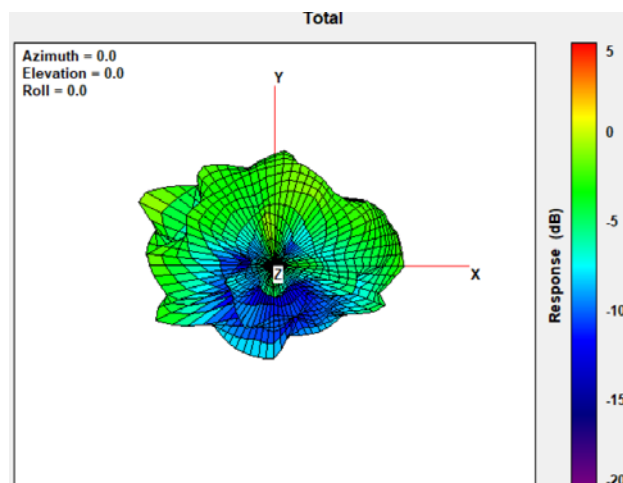
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	1.82



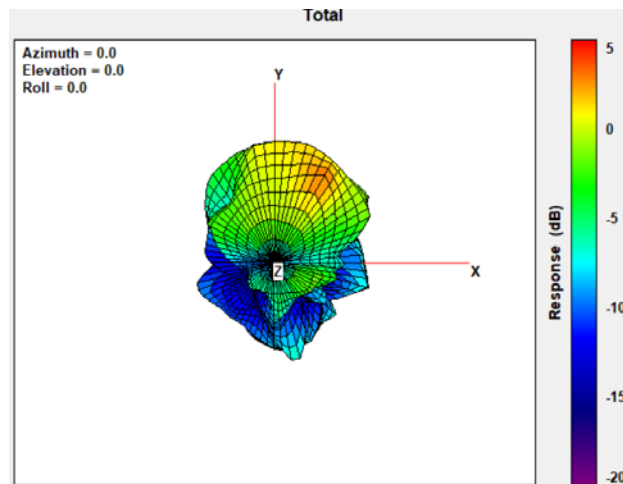
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	1.78



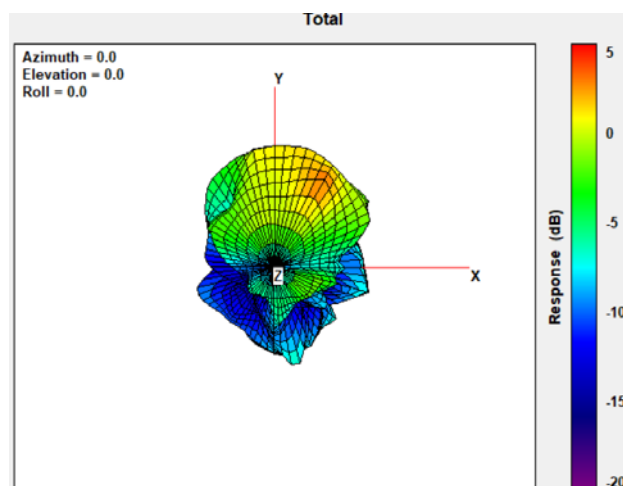
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.70



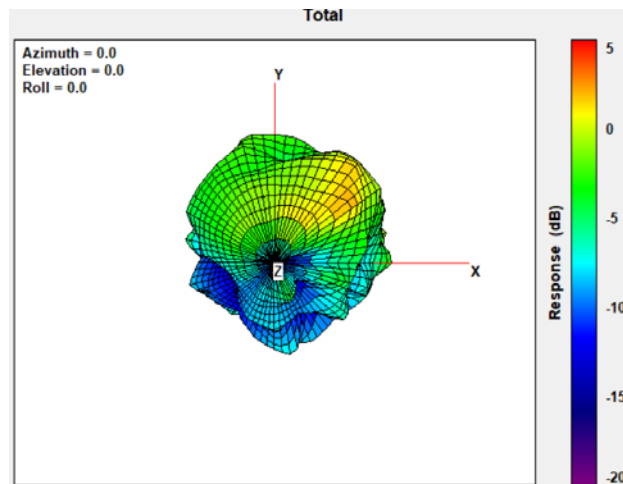
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	3.70



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.96



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.85

