

# ANTENNA INFORMATION

OEM	<b>GETAC</b>	
ODM		
Platform model name		<b>ZX10G2</b>
Intel platform (ex: Yes, No or NA)		
Platform type (ex: regular NB, convertible PC, AIO...etc)		<b>TABLET</b>
SAR minimum separation (mm)		

Antenna manufacturer	Company name	<b>PULSE ELECTRONICS(Singapore) Pte Ltd</b>
	Address	
Test location	Company name	
	Address	
Test Personnel	Name(Full name)	
	E-mail	
	Tel/Mobile	
Testing date		

Antenna Part number	Main	<b>422GB1100004</b>
	Aux	<b>422GB1100005</b>
Antenna type (ex: PIFA, Dipole...etc)		<b>PIFA</b>

Antenna Peak gain w/ cable loss (dBi)*										
	<b>2.4GHz</b> 2400-2483.5 MHz	<b>5.2GHz</b> 5150-5250MHz	<b>5.3GHz</b> 5250-5350MHz	<b>5.6GHz</b> 5470-5725MHz	<b>5.8GHz</b> 5725-5850MHz	<b>5.9GHz</b> 5850-5895MHz	<b>6.2GHz</b> 5925-6425MHz	<b>6.5GHz</b> 6425-6525MHz	<b>6.7GHz</b> 6525-6875MHz	<b>7.0 GHz</b> 6875-7125MHz
Main	2.00	0.33	0.71	0.98	0.86	0.86	3.19	3.36	3.36	2.00
Aux	3.07	0.97	0.23	-1.05	-2.01	-2.45	1.99	2.56	2.56	2.40

Cable Assembly Part Number and Information					
	<b>Cable PN</b>	<b>Cable length(mm)</b>	<b>Cable diameter(mm)</b>	<b>Impedance(ohm)</b>	<b>Connector type</b>
Main		93	1.13	50	IPEX- 4
Aux		360	1.13	50	IPEX- 4

\* 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	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Design	EU/UK	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PIFA	For WiFi 6E and earlier	3.24	3.64	3.73	4.77	4.97	4.72	4.83	4.30	5.37	5.59
	From WiFi 7	2.95	5.11	4.55	5.15	5.13	4.45	5.02	5.02	4.96	4.96
Dipole	For WiFi 6E and earlier	2.89	2.92	3.19	4.41	4.22	4.22	4.83	4.30	4.49	5.34
	From WiFi 7	2.95	4.03	4.11	5.15	5.13	4.45	5.02	4.71	4.49	4.96
Monopole	From WiFi 7	2.83	4.57	4.44	4.95	4.95	4.43	4.87	4.91	4.91	4.79

### 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.

Revision #	Revision Details	Issued Date
Rev. 00	First Issue	

## 2. Document Revision History

### 3. Test & System Description

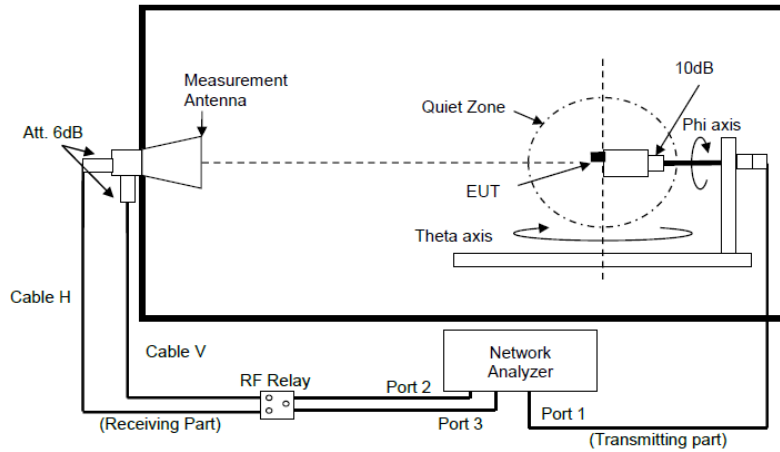
#### 3.1 Measurement Method and System

<insert test description here for test method>

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

#### 3.2 Test setup

<insert test diagram here for test site utilized>



#### 3.3 Equipment list

<insert test diagram here for test site utilized>

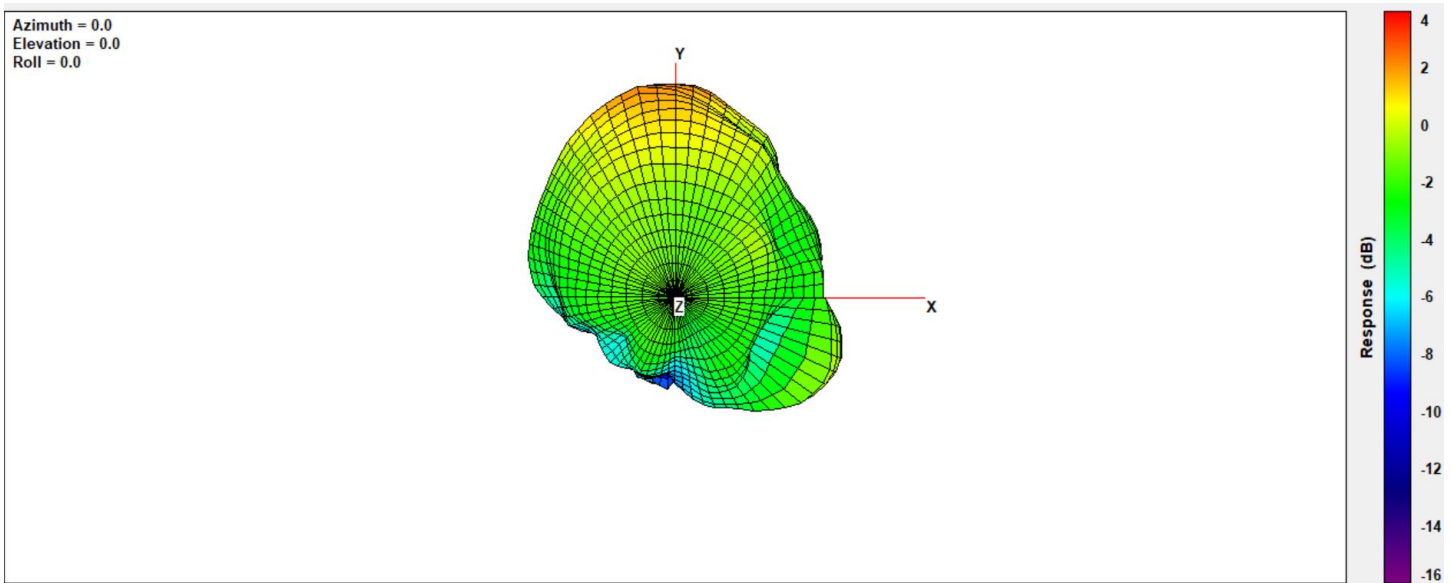
Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
ENA Series Network Analyzer	Keysight	E5071C	MY46100746	2023/07/18	2024/07/17
RF Switch	Keysight	3499A	00155745	NCR	NCR
Multi-Axis Positioner Controller	ETS-Lindgren	2090	N/A	NCR	NCR
Medium-Duty Positioner	ETS-Lindgren	2015	N/A	NCR	NCR
Measurement Horn Antenna	EMCO	3164-08	00102092	NCR	NCR

#### 4. Radiation characteristics of antenna loaded in Host Platform

##### Main Antenna

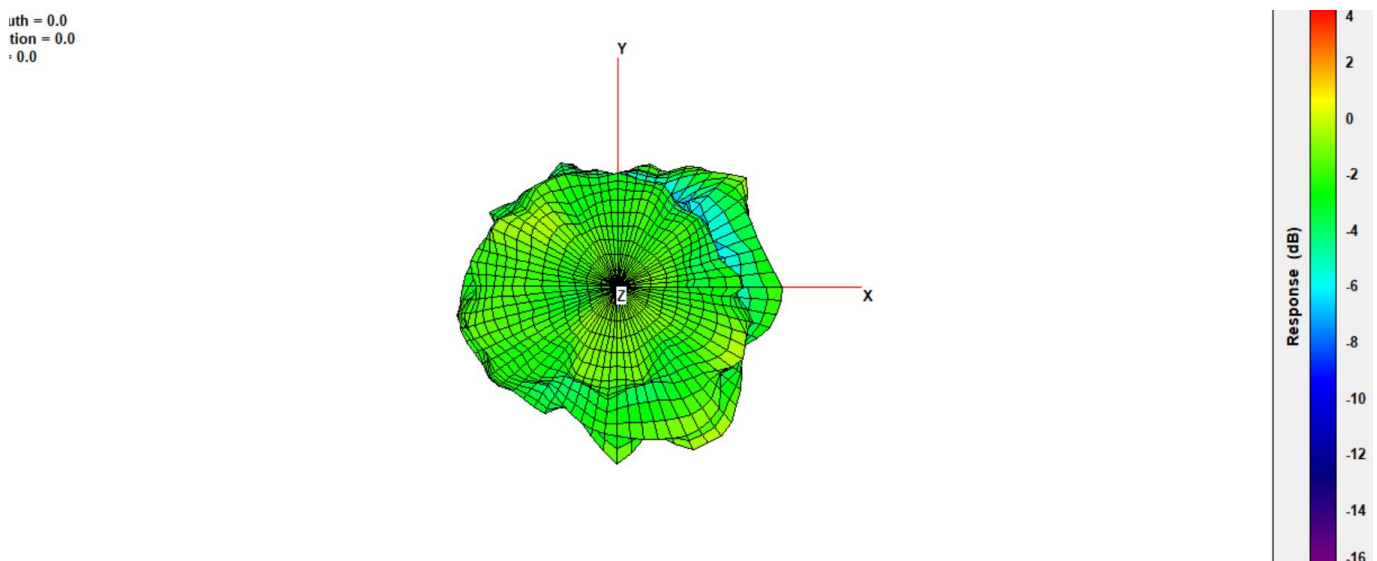
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.00



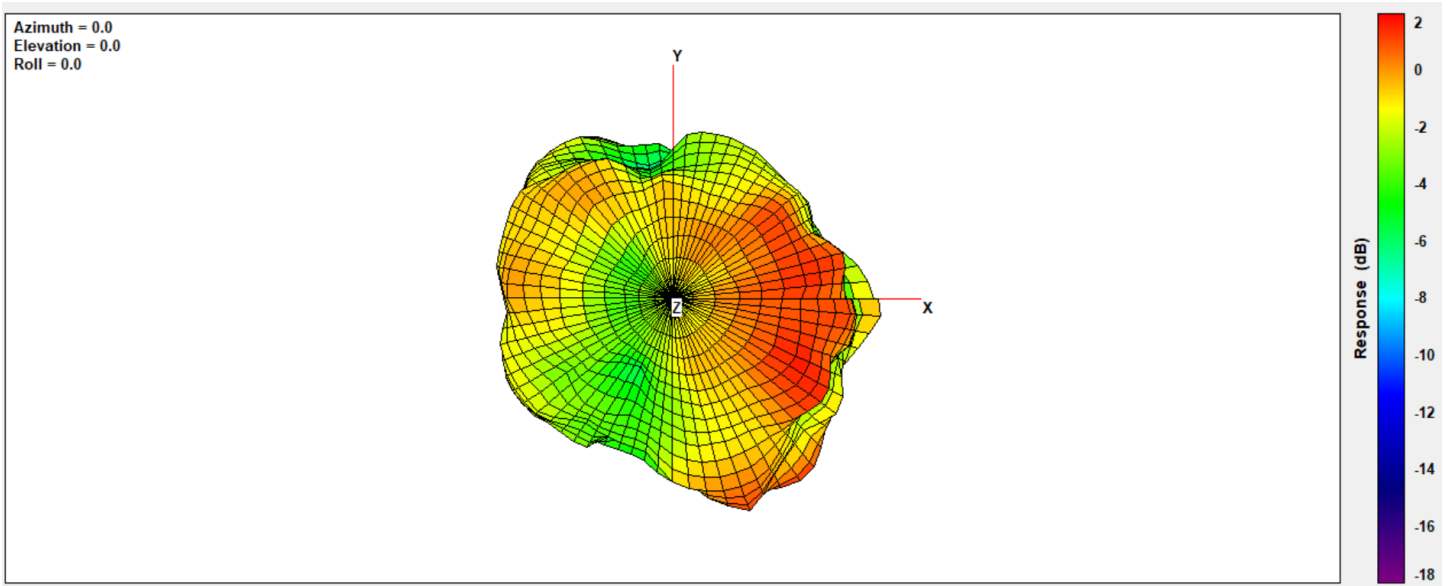
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	0.33



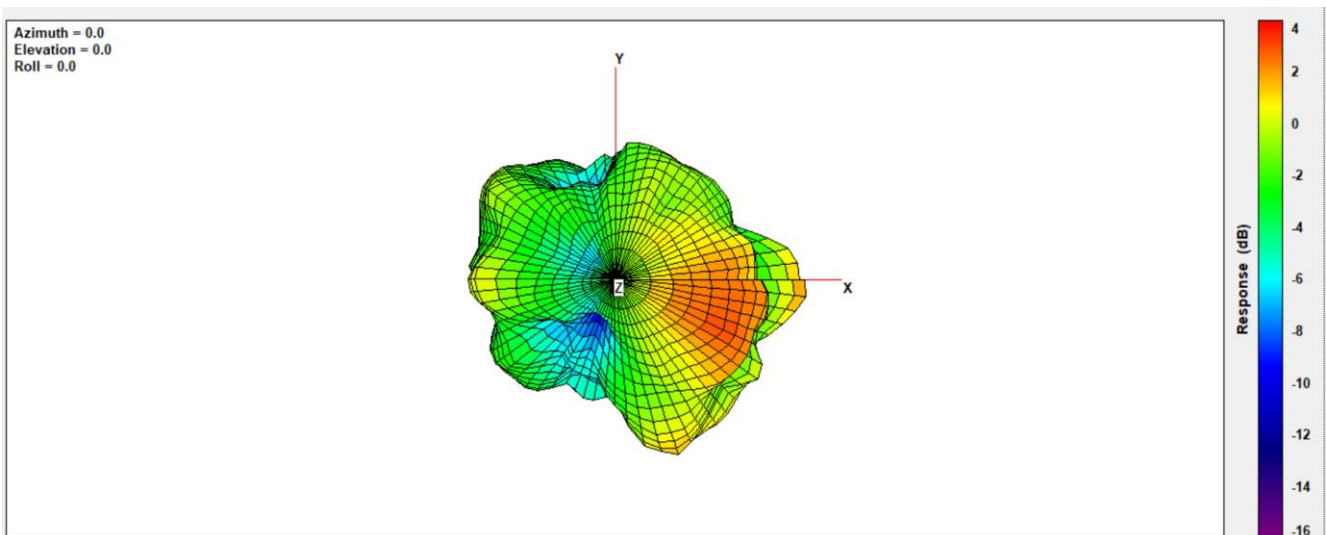
### Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	0.71

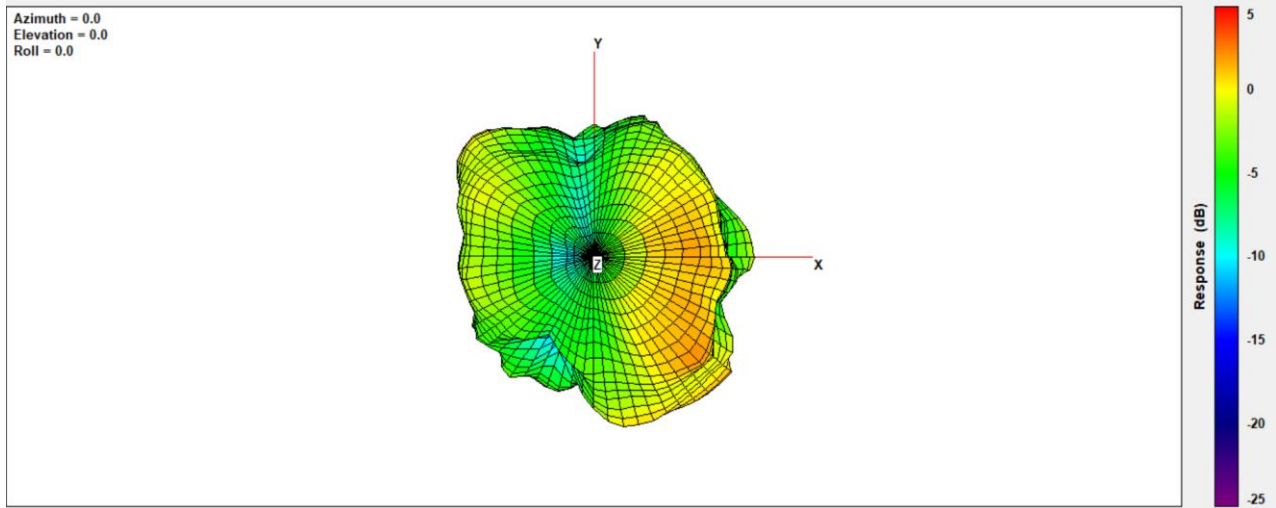


### Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	0.98

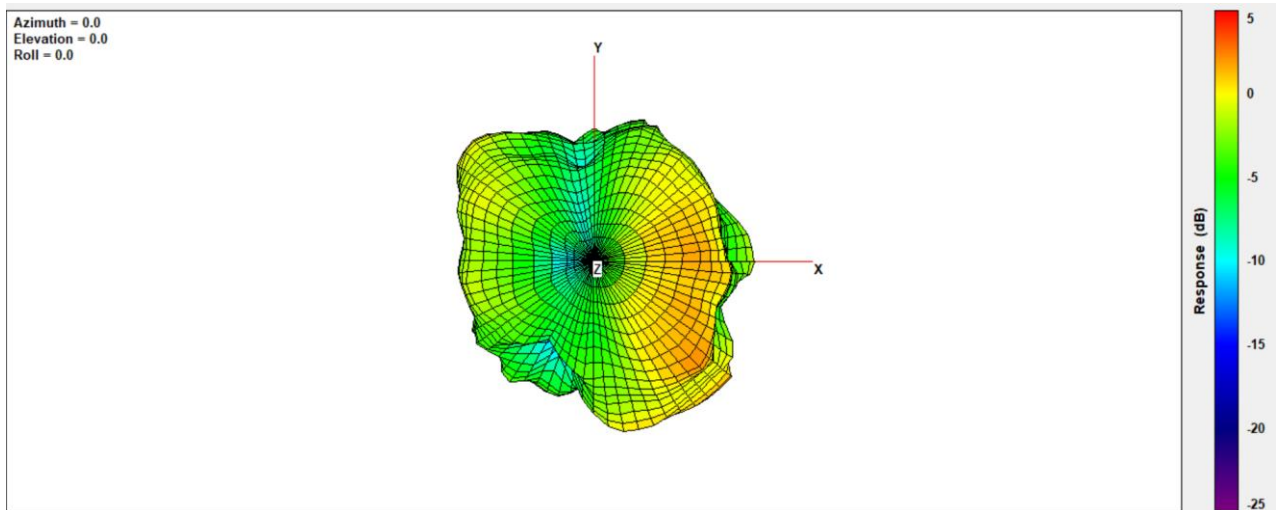


Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	0.86



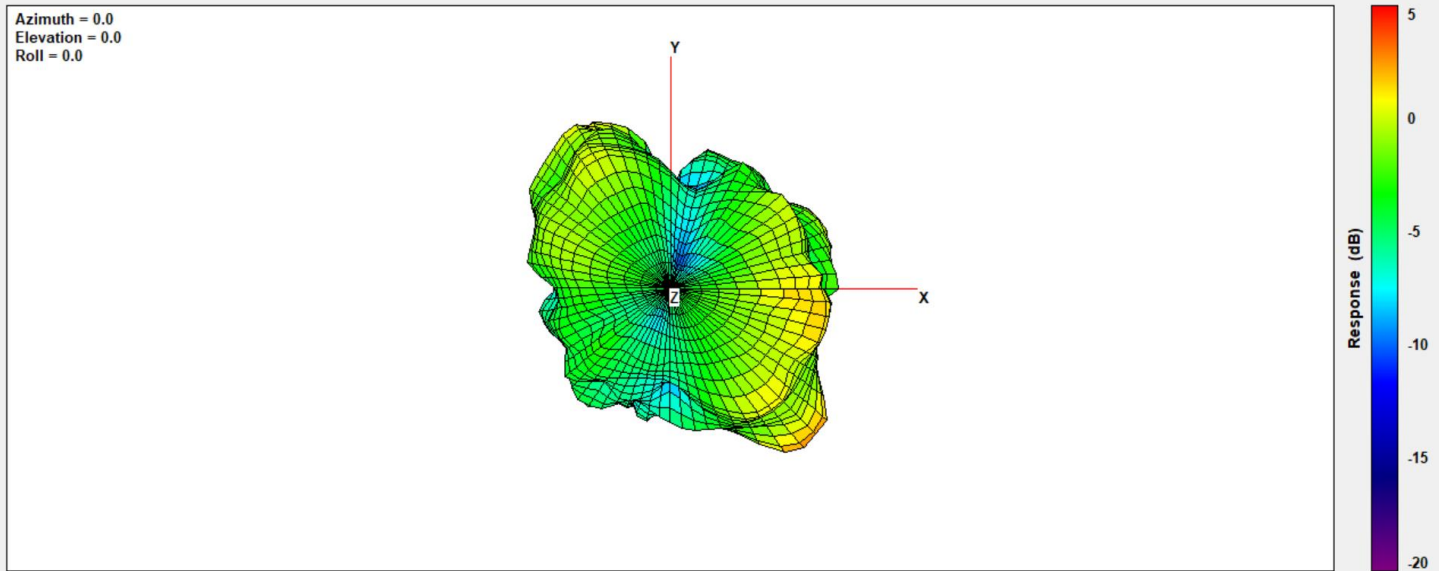
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	0.86



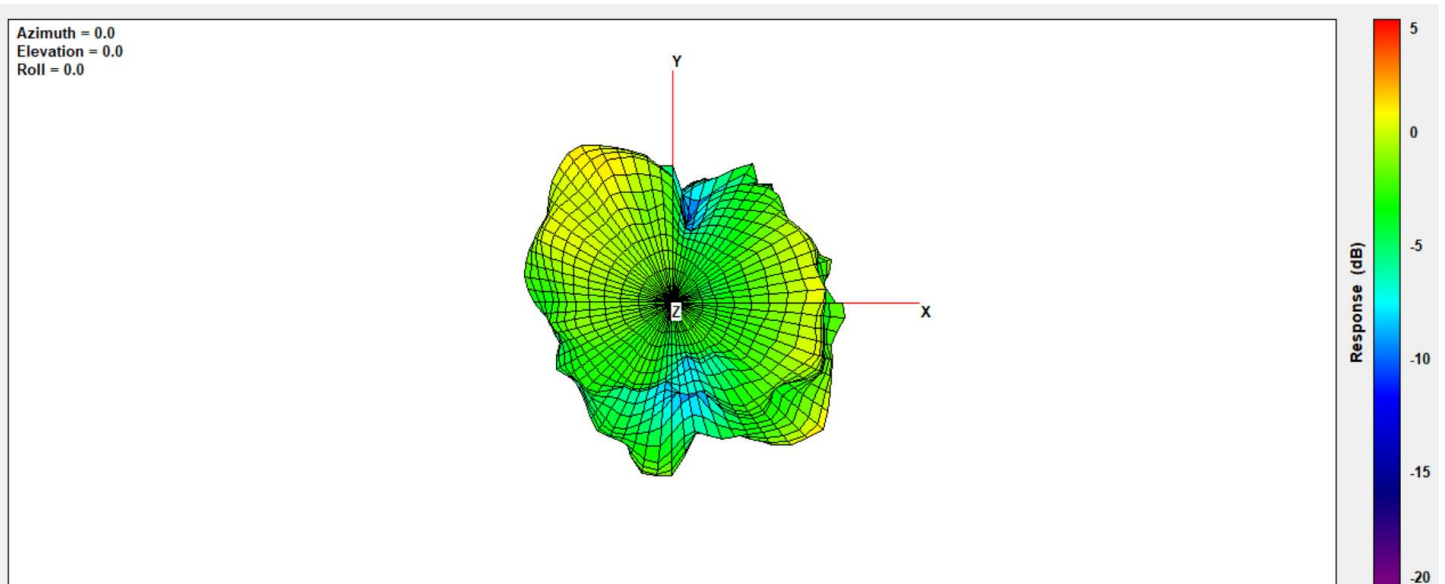
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.19



Max Antenna 3D Radiation Pattern 6425-6525 MHz

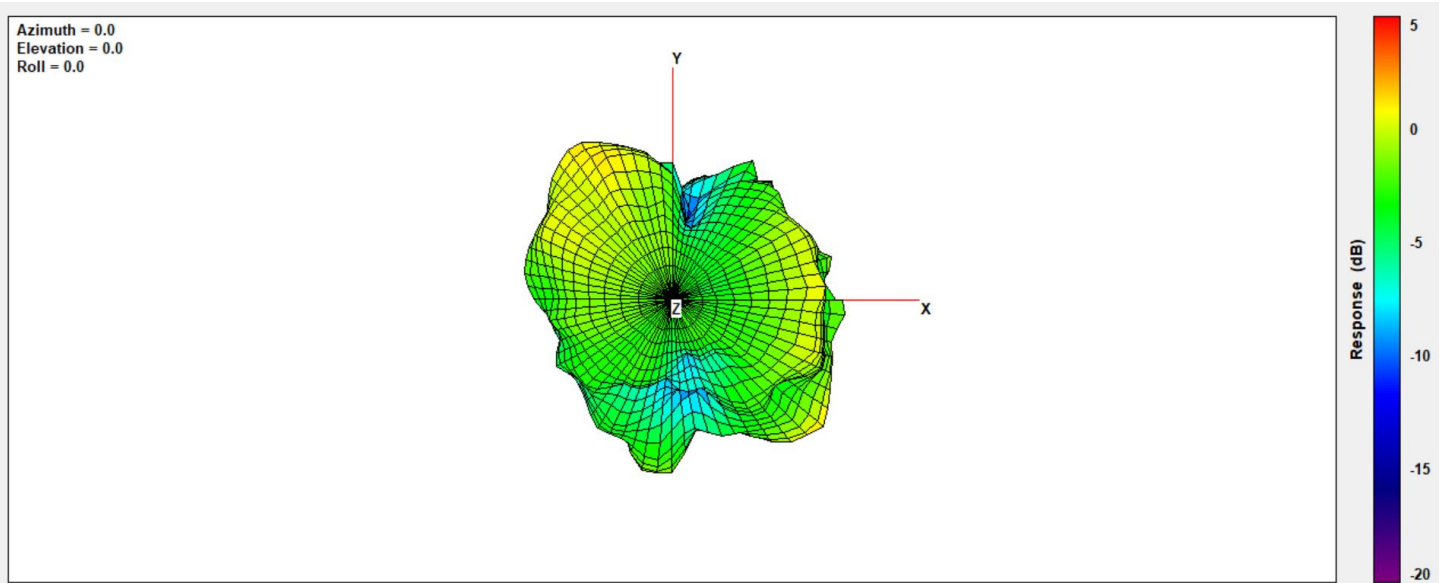
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	3.36





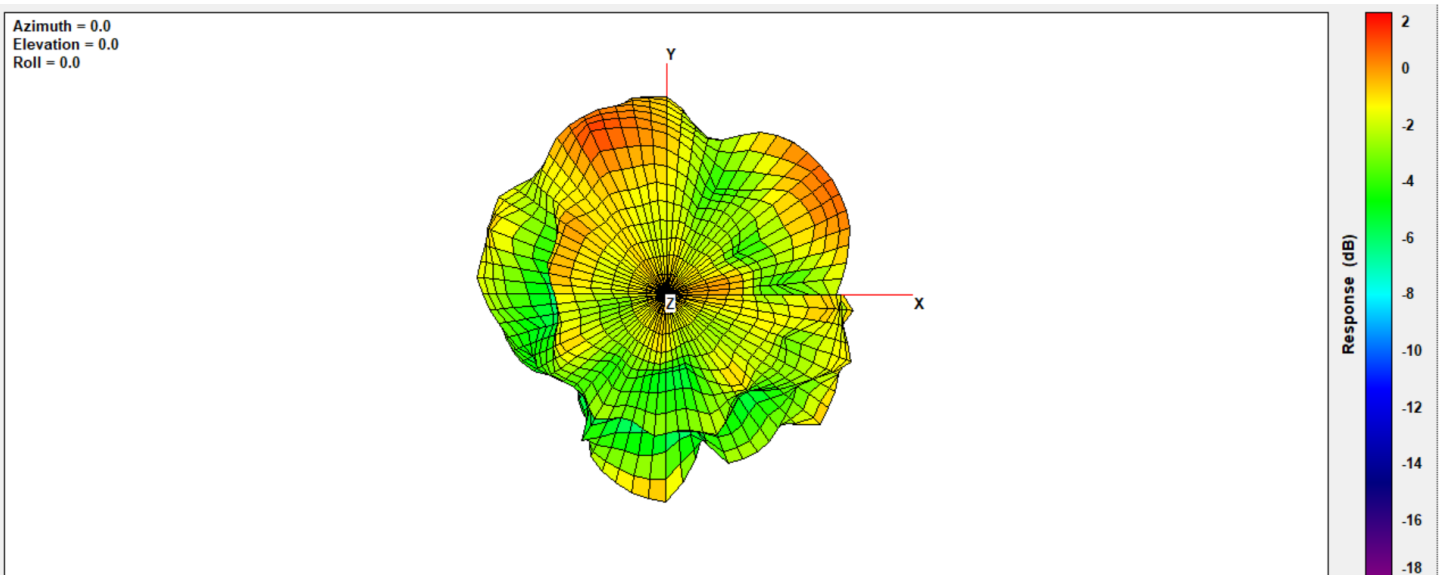
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.36



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.00

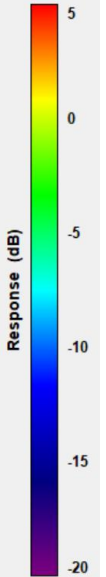
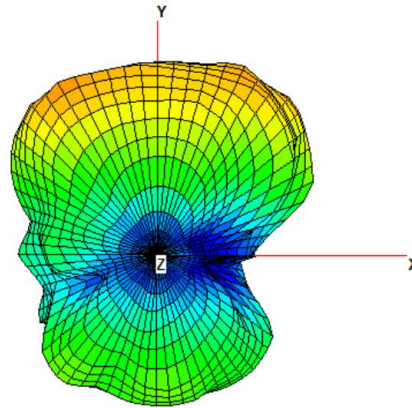


### Auxiliary Antenna

#### Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	3.07

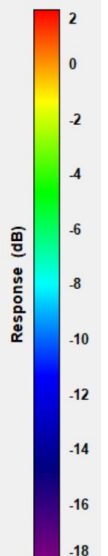
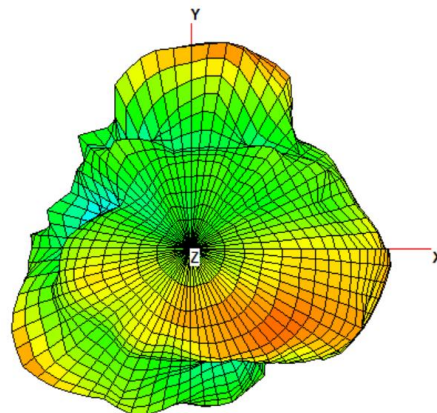
Azimuth = 0.0  
Elevation = 0.0  
Roll = 0.0



#### Max Antenna 3D Radiation Pattern 5150-5250 MHz

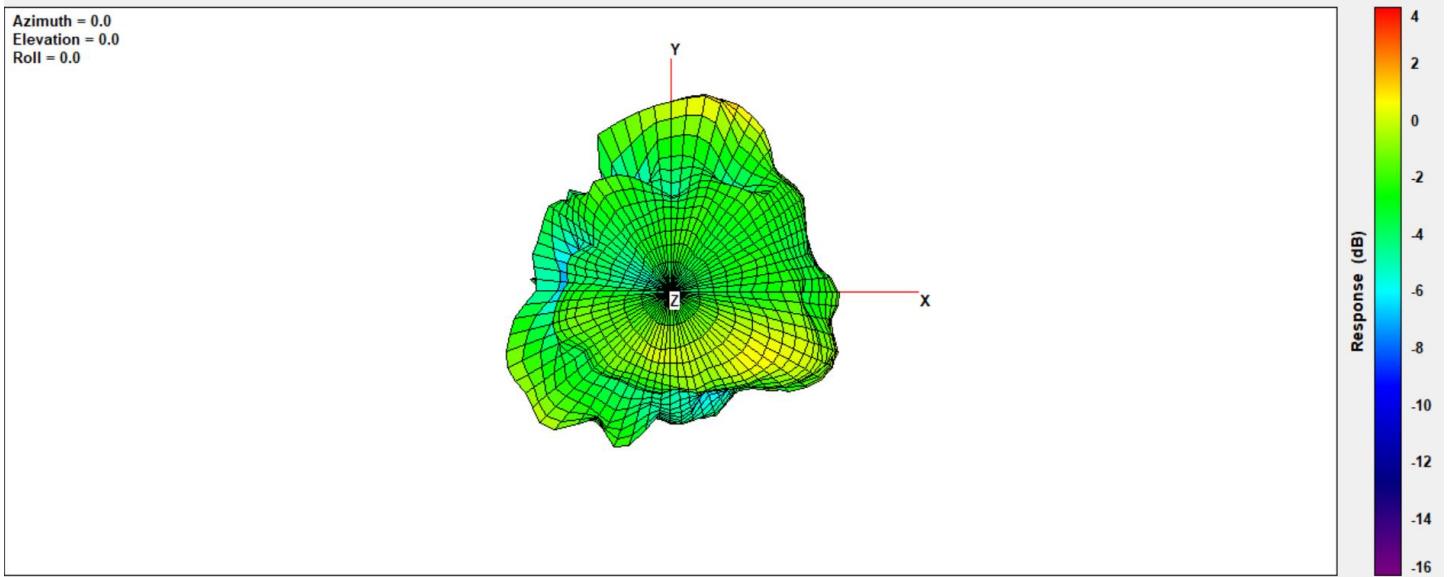
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	0.97

Azimuth = 0.0  
Elevation = 0.0  
Roll = 0.0



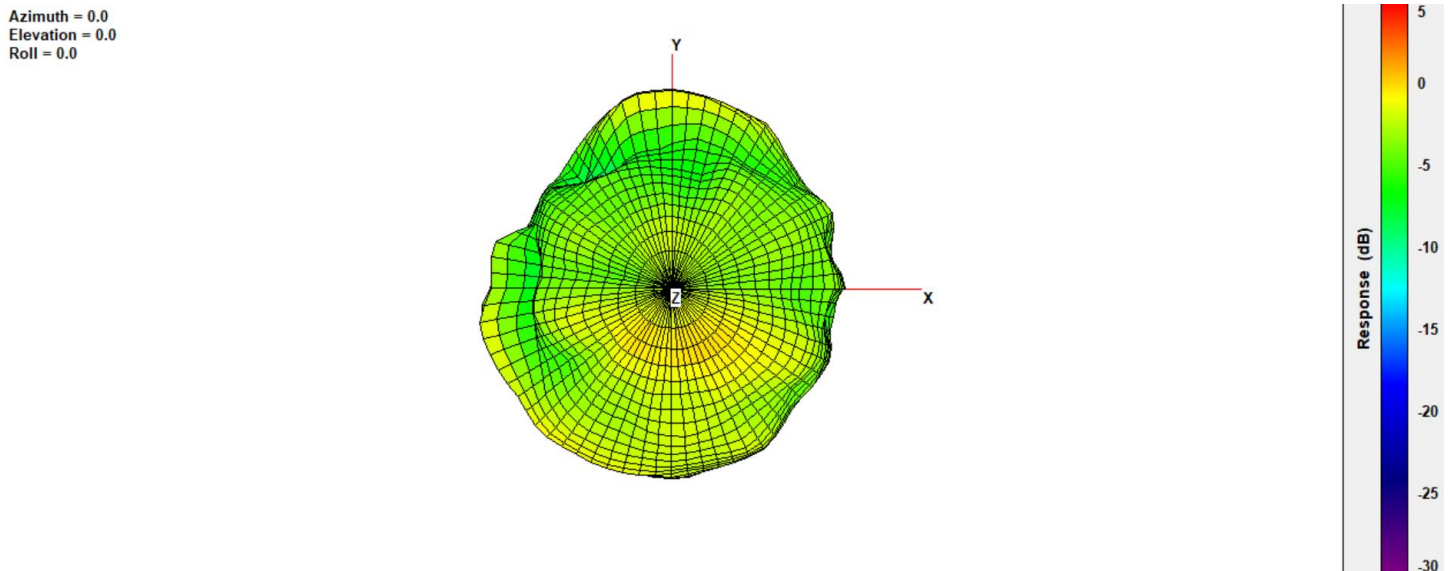
### Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	0.23



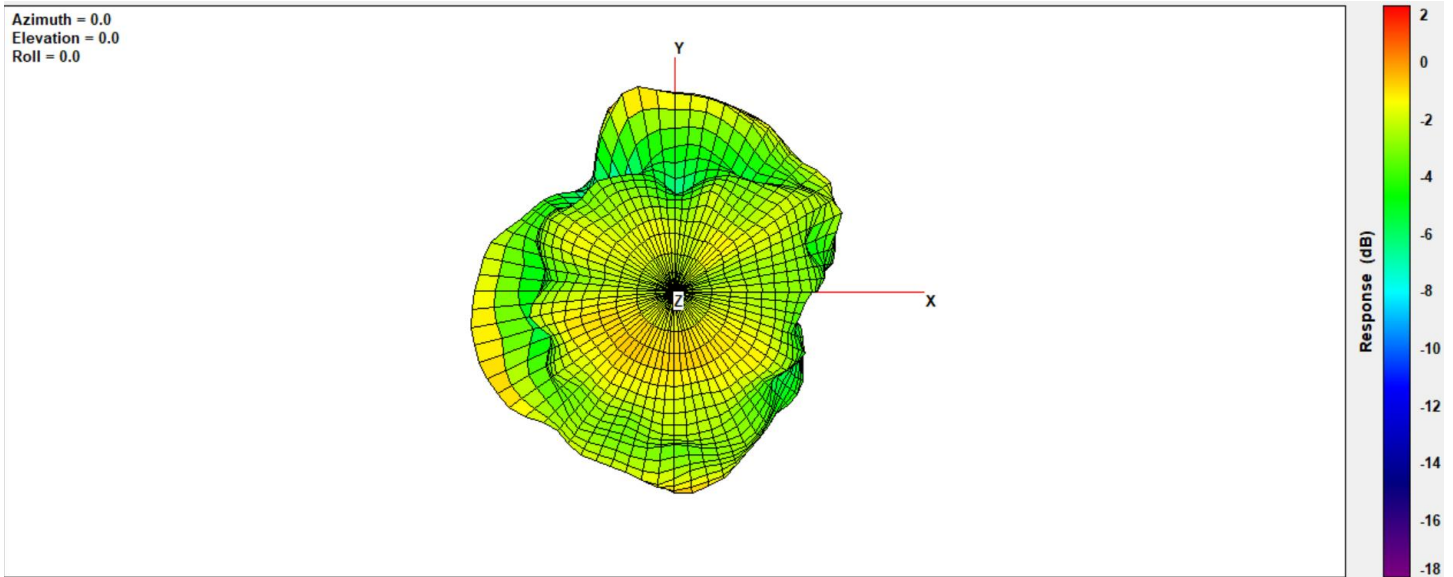
### Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	-1.05



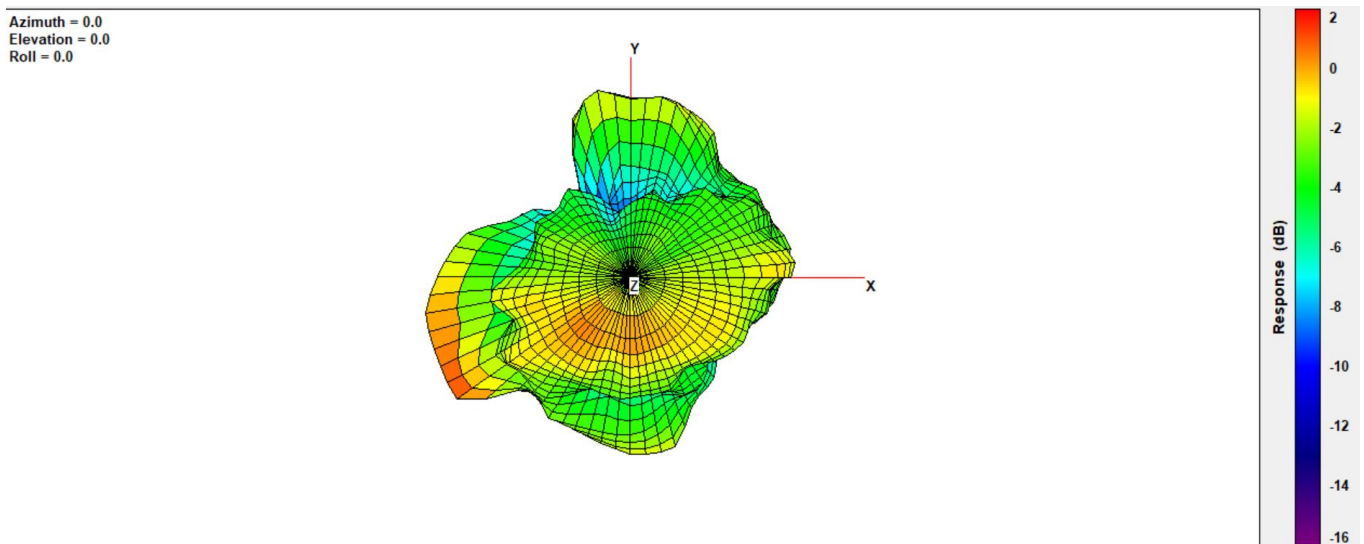
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	-2.01



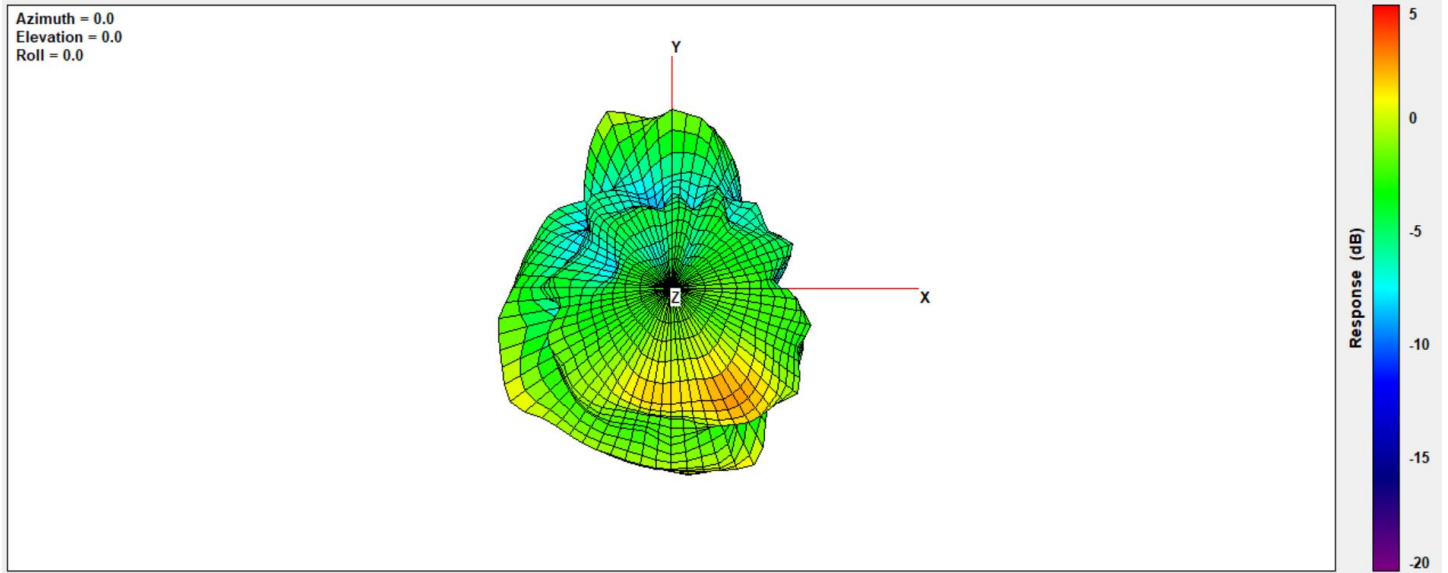
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	-2.45



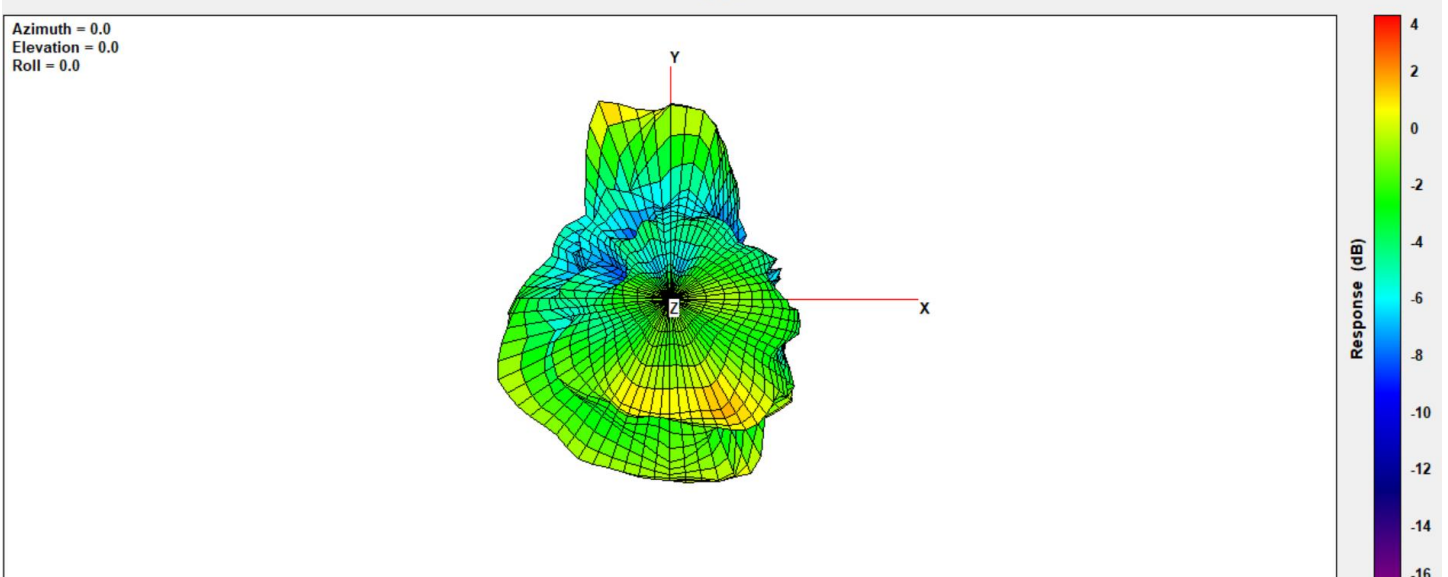
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	1.99



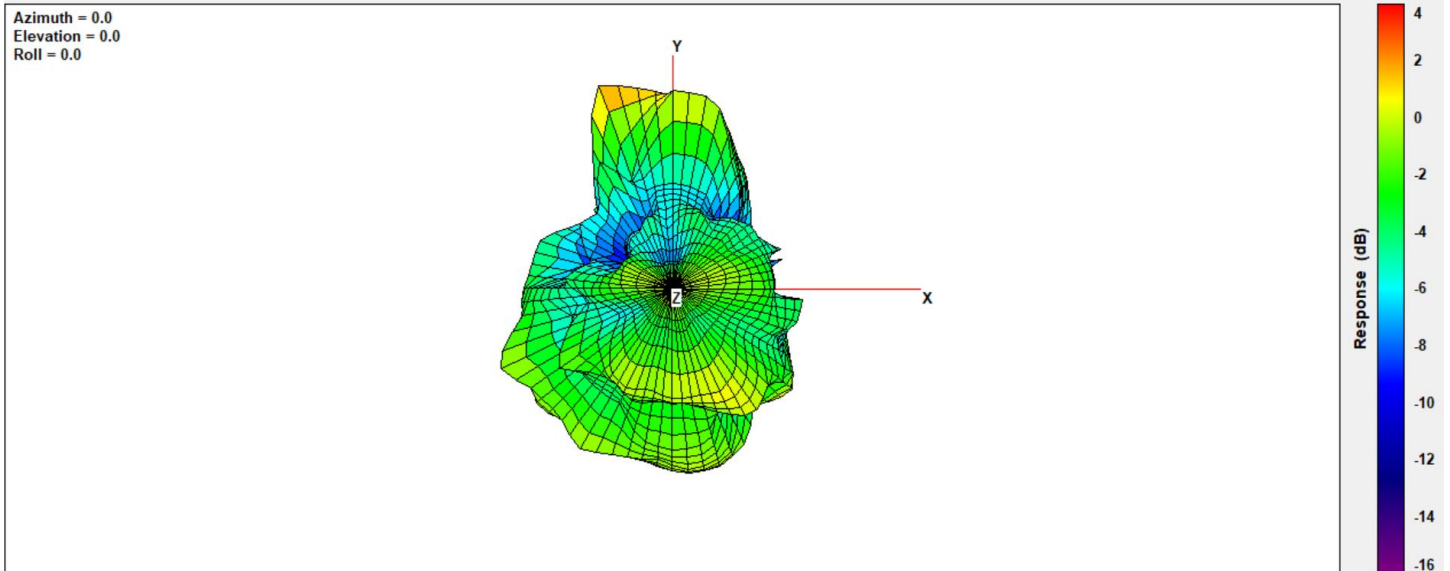
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.56



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.56



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.40

