

Regulatory WLAN Antenna Information (Template)

English Language Required for Regulatory Review / Approval

Platform information										
Brand	Tester's name	Tester's signature	Test Date	platform (ex: Yes, No or NA)	Platform type (ex: regular NB, convertible PC, AIO...etc)	*SAR minimum separation (mm)				
Hong-Bo	Eason Tseng	<i>Eason Tseng</i>	2021/1/14	NA	WiFi Monopole					
<p>*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.</p>										
Antenna information										
Vendor		Type			Antenna Part number (Main)					
Hong-Bo		Monopole			260-25084					
manufacture name					manufacture address					
Changshu HongBo Telecommunication Technology Co., Ltd.					No. 8, Liuzhou Road, Lushan Industrial Park, Xinxing Development Zone, Changshu City, Jiangsu Province, China					
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 5850-5925MH	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	3.22	3.35	3.42	4.77	4.72	4.71	4.75	4.29	4.81	4.74

Antenna Information

Section 1. Antenna Assembly Specifications

1A	1B	1C	1D	1E	1F	1G	1H	
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
260-25084	Hong-Bo	Monopole	50 ohm Coaxial length: 200mm diameter: 1.13LLS Connector type: MHF4L MHF-B13-N-01	2400-2483.5	3.22	3.71	2.5	0.49
				5150-5250	3.35	4.11	2.5	0.76
				5250-5350	3.42	4.19	2.5	0.77
				5470-5725	4.77	5.57	2.5	0.80
				5725-5850	4.72	5.56	2.5	0.84
				5850-5925	4.71	5.55	2.5	0.84
				5925-6425	4.75	5.61	2.5	0.86
				6425-6525	4.29	5.2	2.5	0.91
				6525-6875	4.81	5.77	2.5	0.96
				6875-7125	4.74	5.72	2.5	0.98

Note: The individual antenna gain is by measurement as indicated in above table. For module transmitter supports MIMO and use same antenna at multiple antenna ports. The direction gain values shall follow section FCC KDB 662911 D01.

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

Frequency	Peak Gain	Theta angle	Phi angle	Frequency	Peak Gain	Theta angle	Phi angle
MHz	(dBi)	(°)	(°)	MHz	(dBi)	(°)	(°)
2412	3.14	120	180	5470	4.46	120	105
2422	3.14	120	180	5500	4.77	120	105
2437	3.14	120	180	5725	4.29	120	105
2442	3.22	120	180	5785	4.49	120	105
2452	3.18	120	180	5805	4.72	120	105
2484	3.12	120	180	5850	4.71	120	105
5150	3.21	120	105	5875	4.64	120	255
5180	3.35	120	105	5925	4.71	120	255
5250	3.19	120	105	6085	4.75	120	255
5320	3.37	120	105	6245	4.74	120	255
5350	3.42	120	105	6405	4.7	120	255

Frequency	Peak Gain	Theta angle	Phi angle
MHz	(dBi)	(°)	(°)
6425	4.25	120	255
6465	4.29	120	255
6525	4.22	120	255
6645	4.78	120	255
6795	4.81	120	270
6875	4.71	120	270
6975	4.74	120	90
7095	4.74	120	90
7125	4.71	120	90

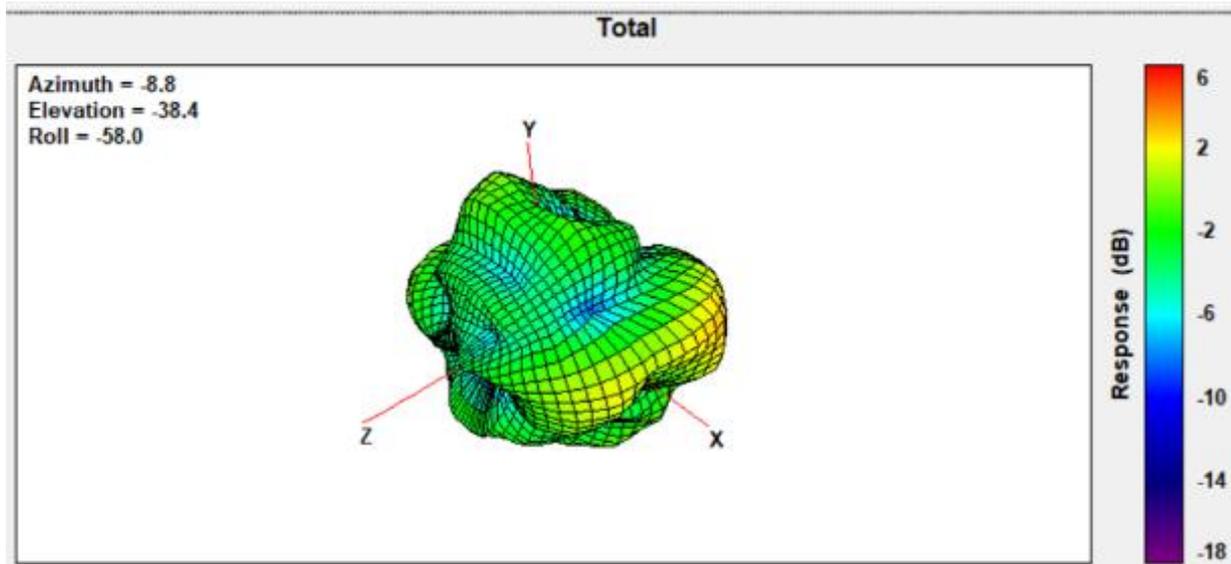
Section 2. Dimensioned Photos and Drawings of Antennas

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

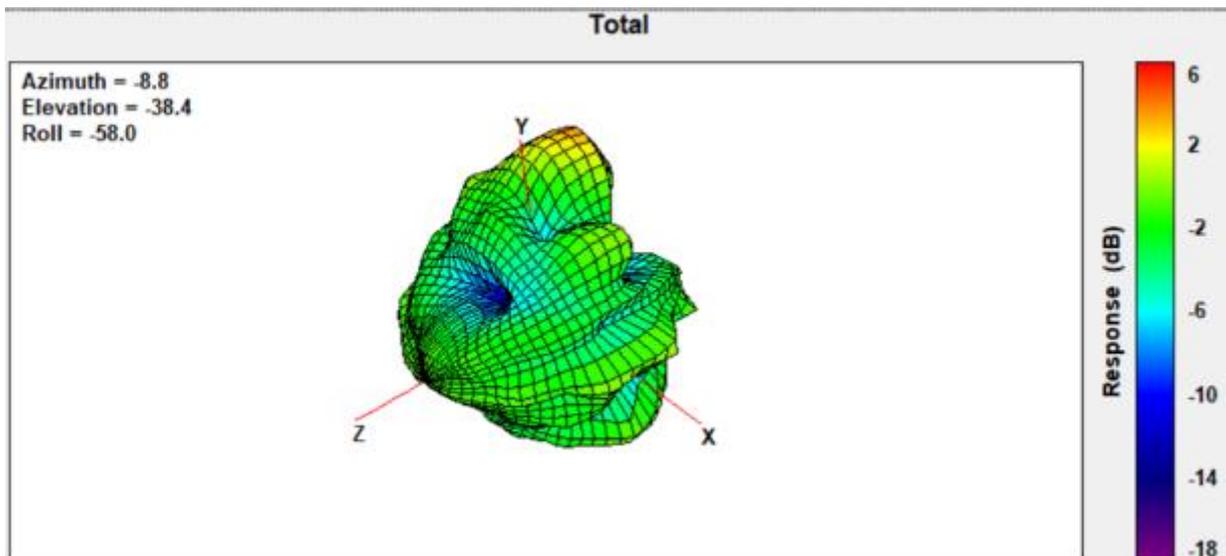
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
2400-2483.5	3.22	120	180



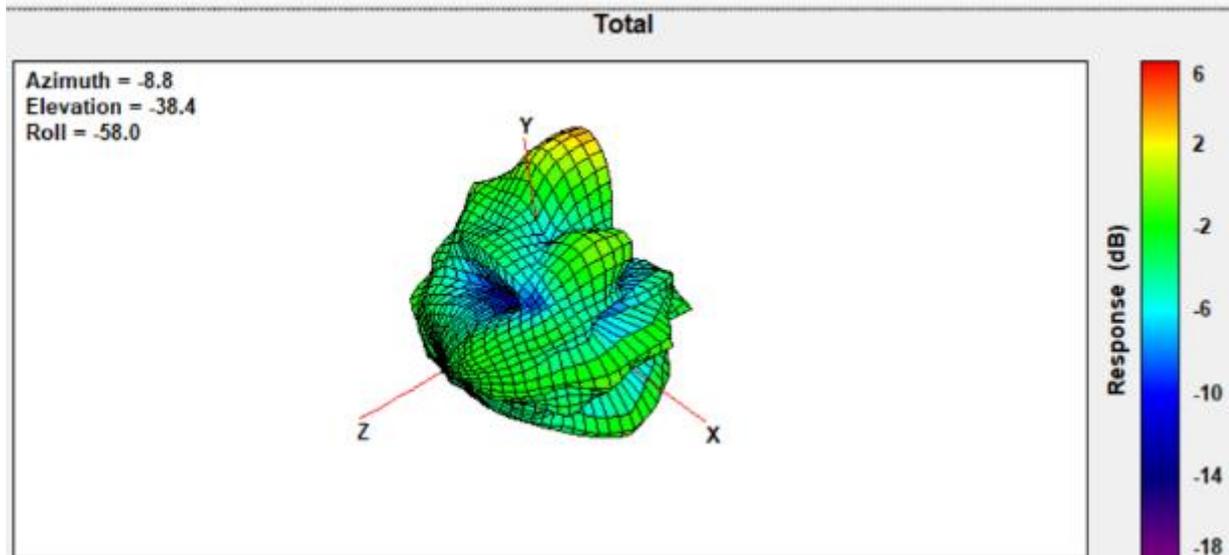
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5150-5250	3.35	120	105



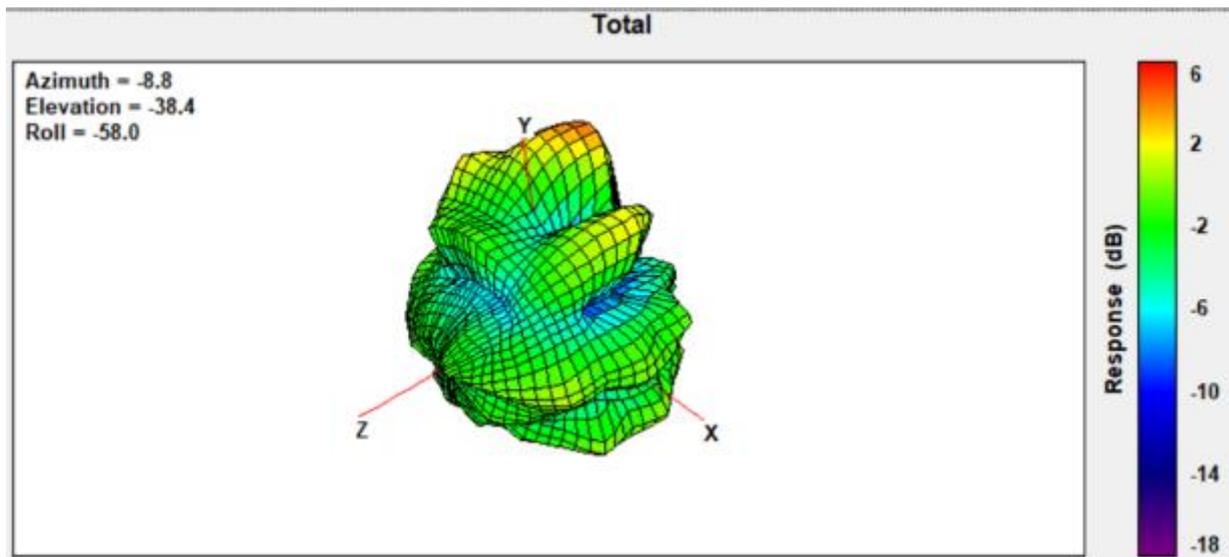
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5250-5350	3.42	120	105



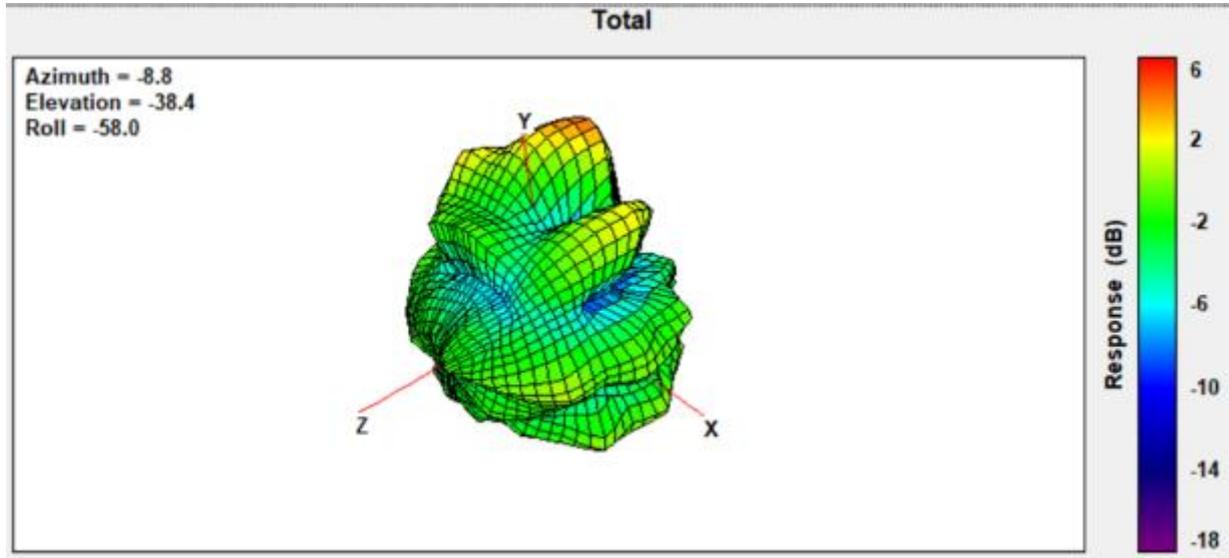
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5470-5725	4.77	120	105



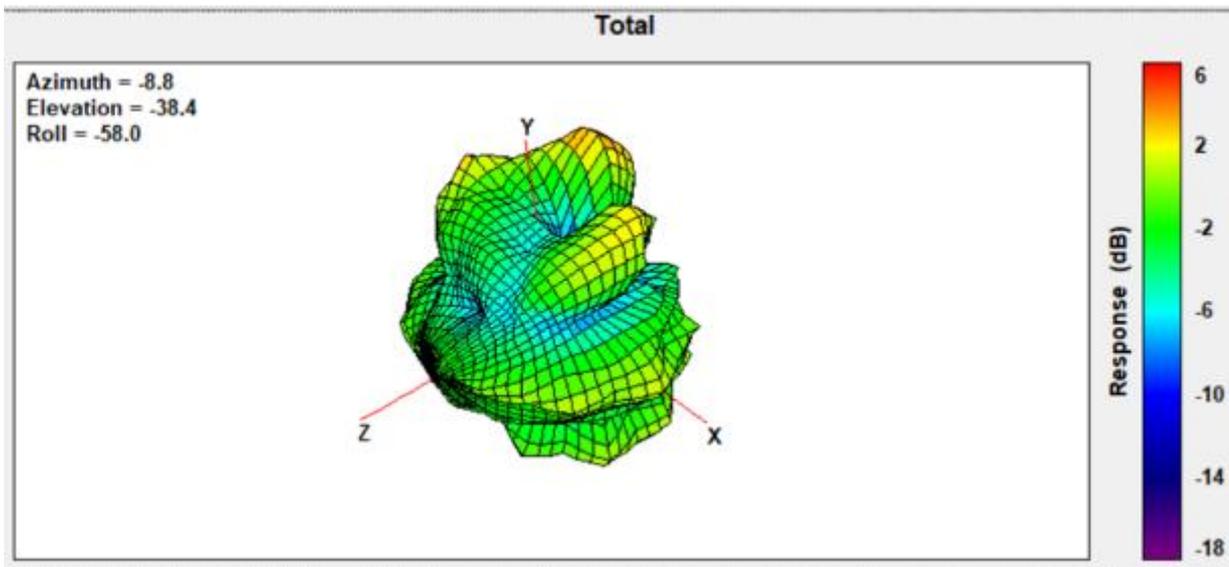
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5725-5850	4.72	120	105



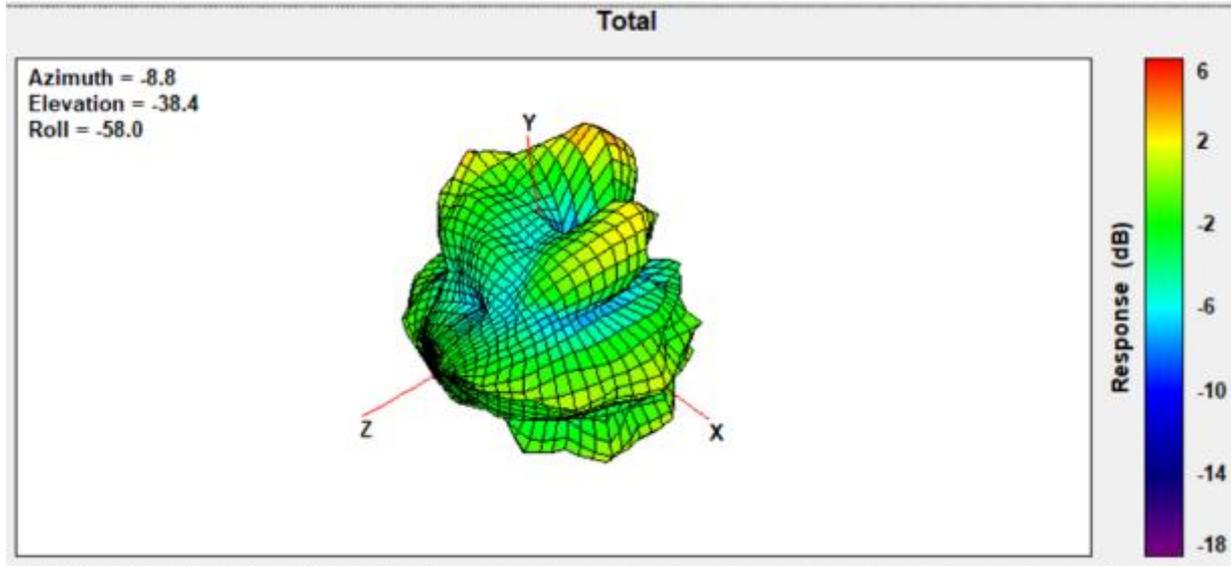
Max Antenna 3D Radiation Pattern 5850-5925 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5850-5925	4.71	120	105



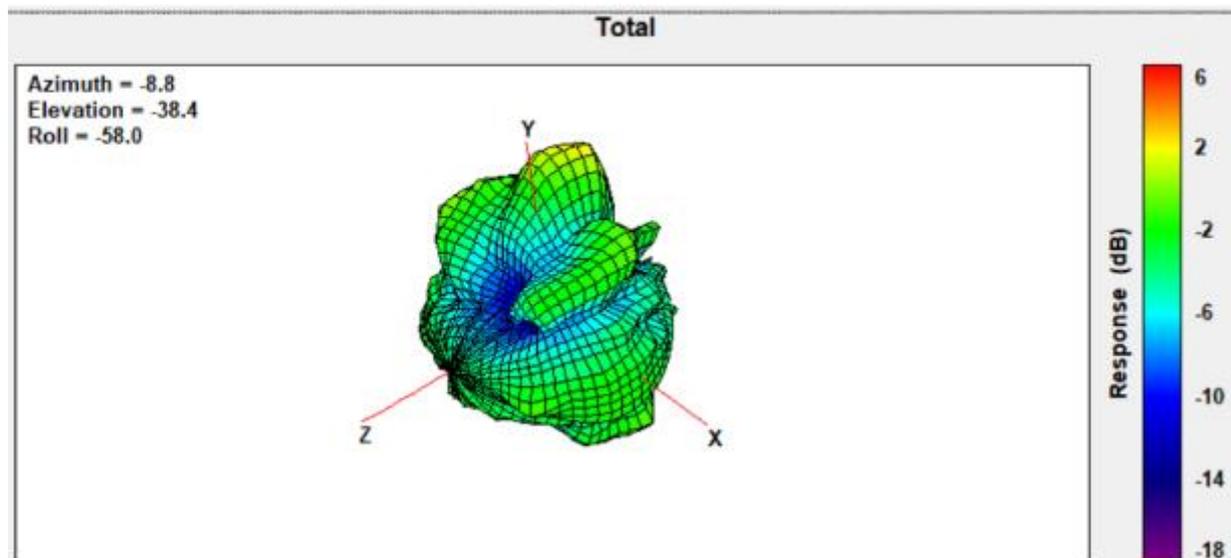
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5925-6425	4.75	120	255



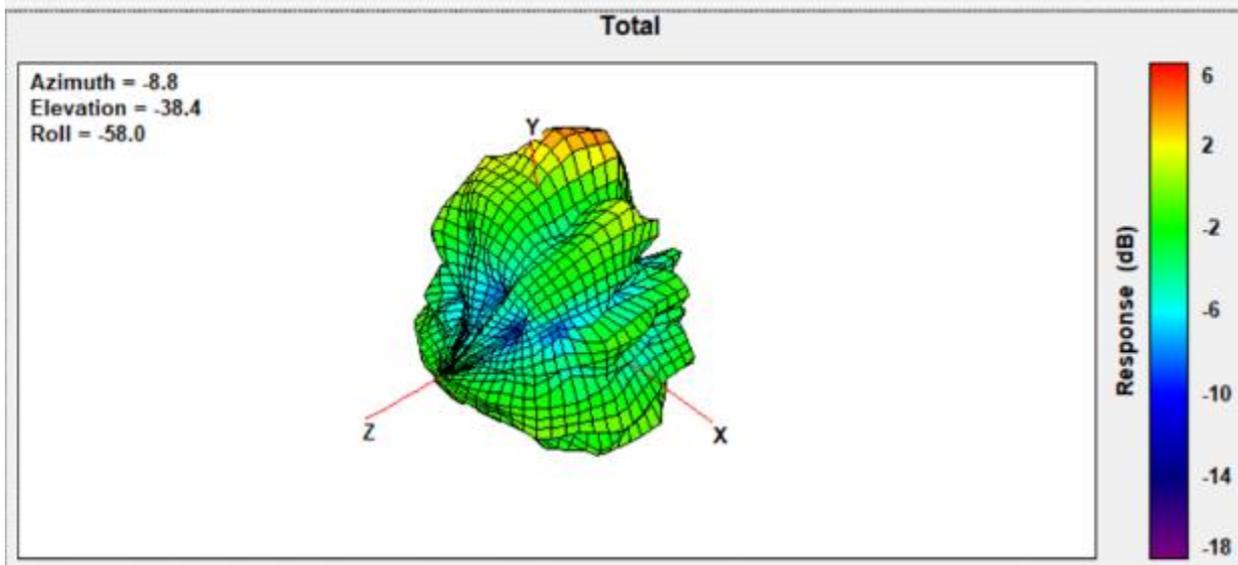
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
6425-6525	4.29	120	255



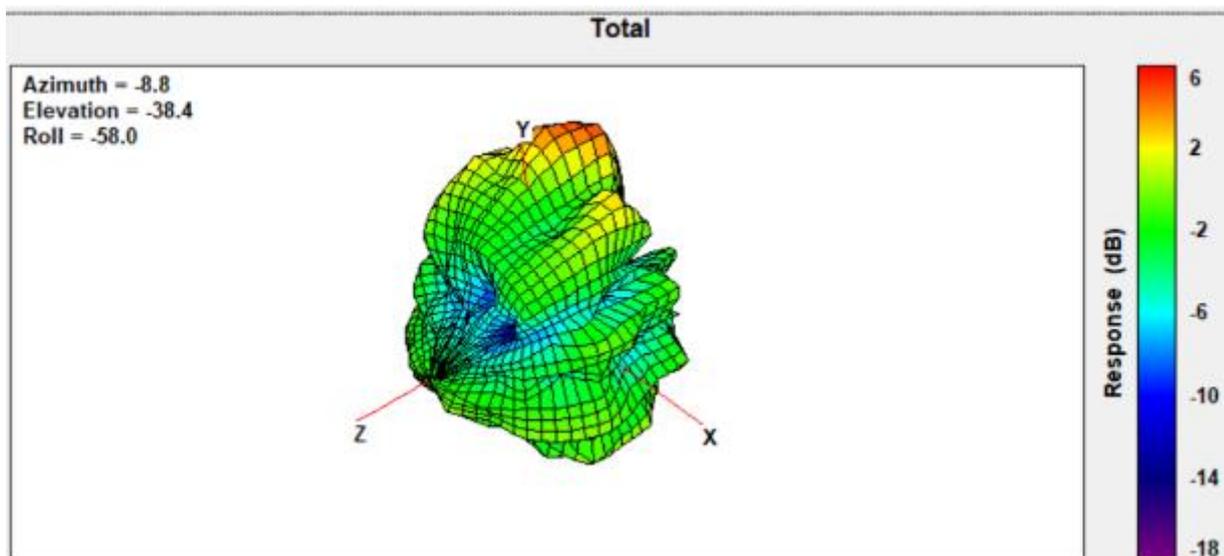
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
6525-6875	4.81	120	270



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
6875-7125	4.74	120	90



4. Antenna information used for conformity with limits

This is a WIFI/BT typical antenna for modular manufacture regulatory testing purpose. The applicable limit is subjected to modular transmitter design/specification (i.e., SISO or MIMO etc.) and FCC Part 15 regulation. Detail of conformity limit to be described in module FCC test reports.