

Regulatory WLAN Antenna Information

Platform information										
Brand	ODM		End product model name				Platform type (ex: regular NB, convertible PC, AIO...etc)			
ASUS	Inventec		M1407KA , M1407HA				Regular NB			
Antenna information										
Vendor		Type			Antenna Part number (Main)			Antenna Part number (Aux)		
ICT		PIFA			6036B0372401 (LA9RF589-NB-H)			6036B0372301 (LA9RF590-NB-H)		
Antenna Manufacturer Information										
LUXSHARE-ICT 7F, No. 568, Sec.1, Minsheng N. Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) T: +886 3 2120088										
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	2.34	2.74	2.80	3.50	3.89	3.50	3.64	3.19	3.21	3.78
Aux	2.18	1.84	1.84	2.23	2.40	2.84	3.53	2.63	2.10	2.70
All Antenna peak gain should be less the Antenna Net Gain spec as below: (RTL8852BE)										
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	
RTL8851BE		Dipole			3		5		NA	
		PIFA			3.4		5		NA	
		Monopole			3.2		4		NA	
RTL8852CE		Dipole			3		5		5	
		PIFA			3.5		5		5	
		Monopole			3.38		4.81		4.86	
RTL8922AE		Dipole			3		5		5	
		PIFA			3.4		5		5	
		Monopole			3.2		4		4.5	

Antenna Information

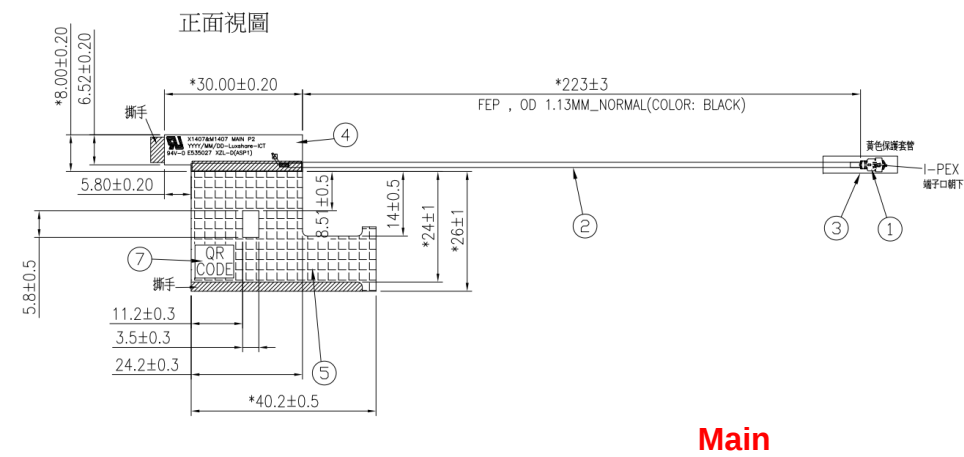
Section 1. Antenna Assembly Specifications

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

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)
Customer P/N: 6036B0372401 ICT P/N: LA9RF589-NB-H Tx1 Main Antenna	Luxshare-ICT	PIFA	Connector P/N: I-pex: 20565-001R-13 Cable p/n: SY113L/50-055 50 ohm Coaxial length: 223mm diameter: 1.13mm	2400-2483.5	2.34	3.08	2.0	0.74
				5150-5250	2.74	3.84	2.0	1.10
				5250-5350	2.80	3.90	2.0	1.10
				5470-5725	3.50	4.65	2.0	1.15
				5725-5850	3.89	5.06	2.0	1.17
				5850-5895	3.50	4.68	2.0	1.18
				5925-6425	3.64	4.87	2.0	1.23
				6425-6525	3.19	4.44	2.0	1.25
				6525-6875	3.21	4.50	2.0	1.29
				6875-7125	3.78	5.12	2.0	1.34
Customer P/N: 6036B0372301 ICT P/N: LA9RF590-NB-H Tx2 Aux Antenna	Luxshare-ICT	PIFA	Connector P/N: I-pex: 20565-001R-13 Cable p/n: SY113L/50-063 50 ohm Coaxial length: 400mm diameter: 1.13mm	2400-2483.5	2.18	3.50	2.0	1.32
				5150-5250	1.84	3.82	2.0	1.98
				5250-5350	1.84	3.82	2.0	1.98
				5470-5725	2.23	4.30	2.0	2.07
				5725-5850	2.40	4.49	2.0	2.09
				5850-5895	2.84	4.95	2.0	2.11
				5925-6425	3.53	5.74	2.0	2.21
				6425-6525	2.63	4.87	2.0	2.24
				6525-6875	2.10	4.41	2.0	2.31
				6875-7125	2.70	5.10	2.0	2.40

Section 2. Dimensioned Photos and Drawings of Antennas

Main Antenna Drawing:

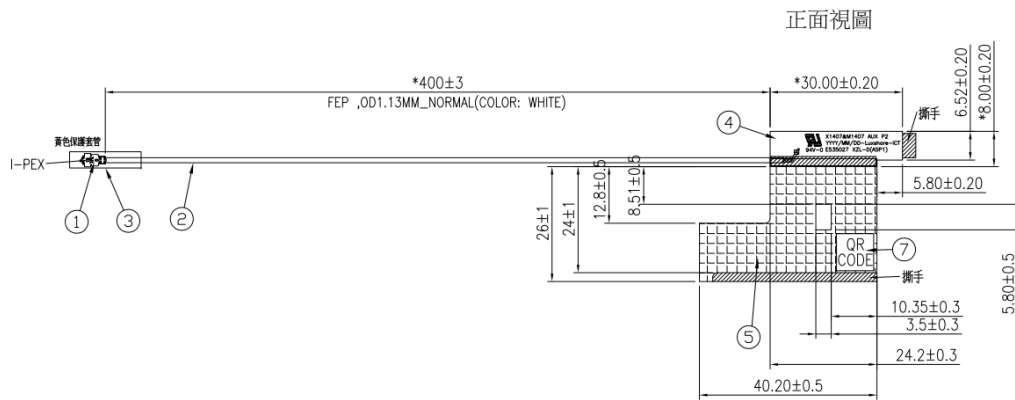


Main

Main Antenna Photo (Front/Back):

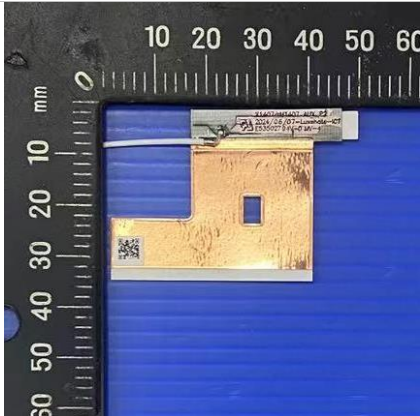
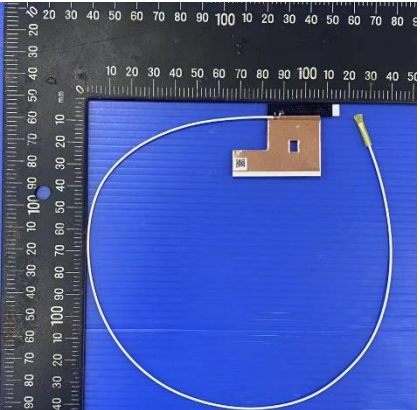
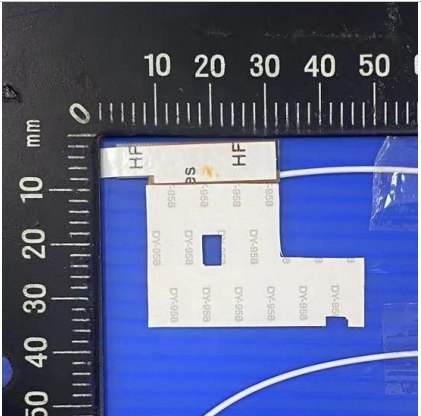
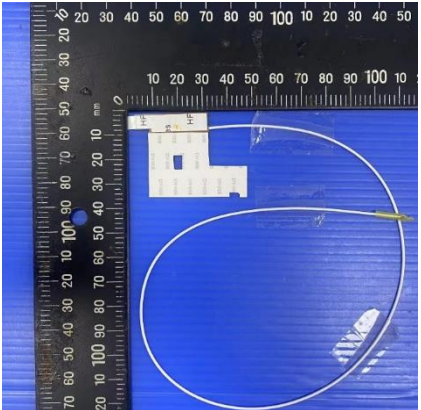
Antenna Photo	
Front	Back
A photograph of the front of the antenna. It shows a small, rectangular, gold-colored component with a blue square in the center. A black cable is attached to the component. A ruler is placed next to the component for scale, showing dimensions in millimeters.	A photograph of the back of the antenna. It shows the same component from the reverse side, revealing a white label with text and a QR code. A ruler is placed next to the component for scale, showing dimensions in millimeters.

Aux Antenna Drawing:



AUX

Aux Antenna Photo (Front/Back):

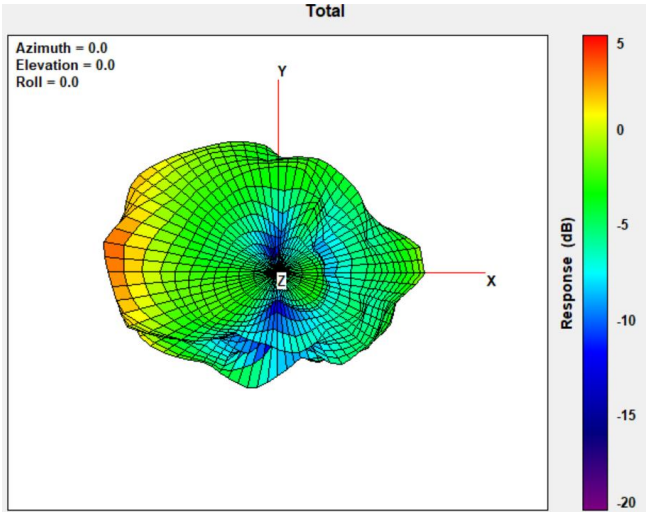
Antenna Photo	
Front	Back
 	 

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

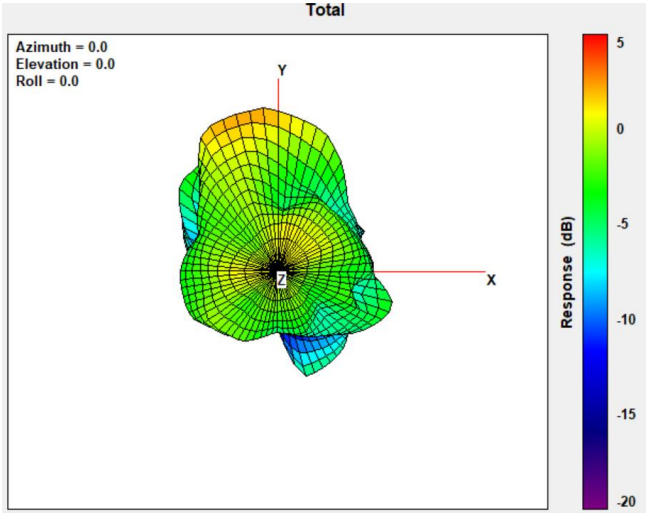
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.34



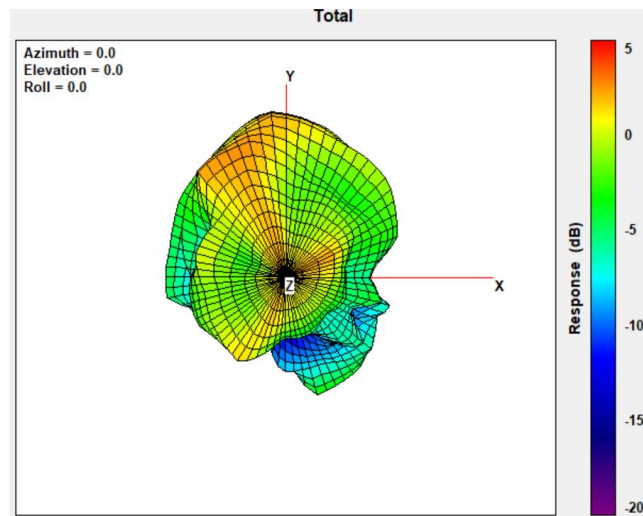
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.74



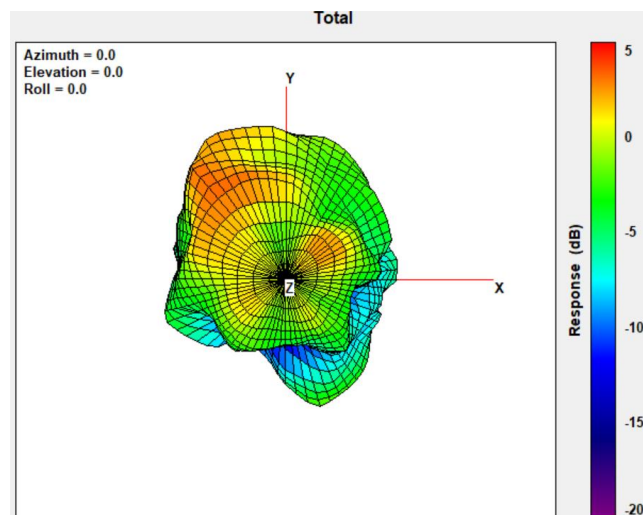
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.80



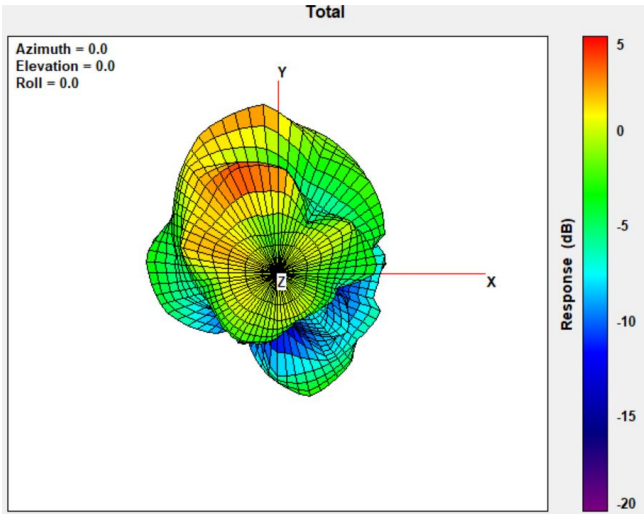
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.50



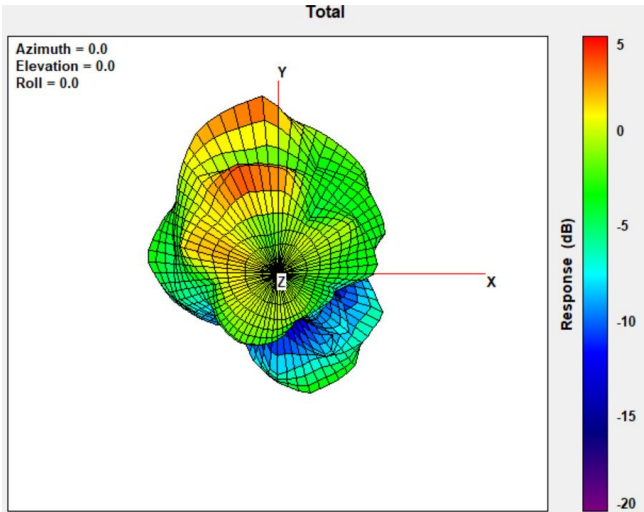
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.89



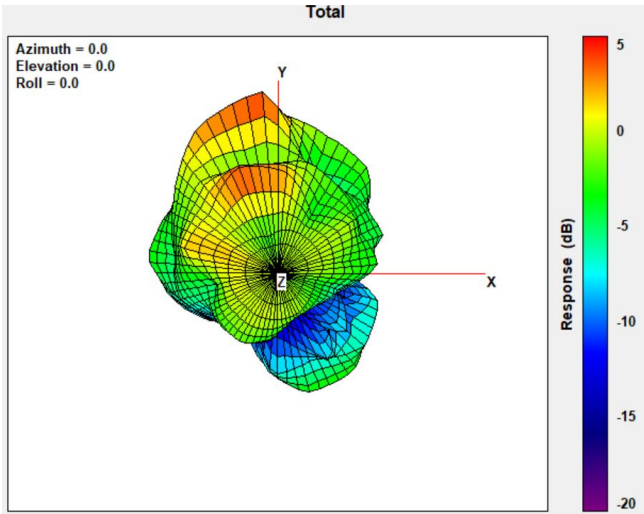
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.50



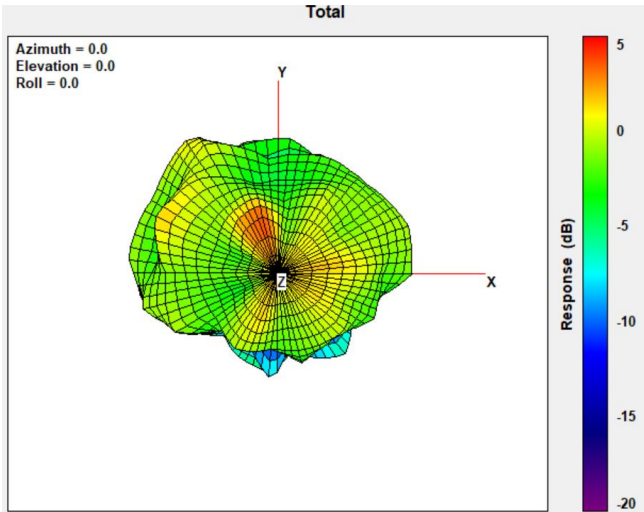
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.64



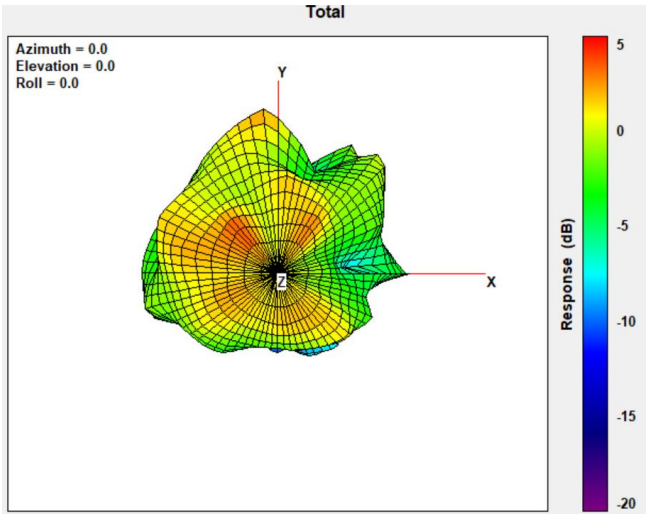
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	3.19



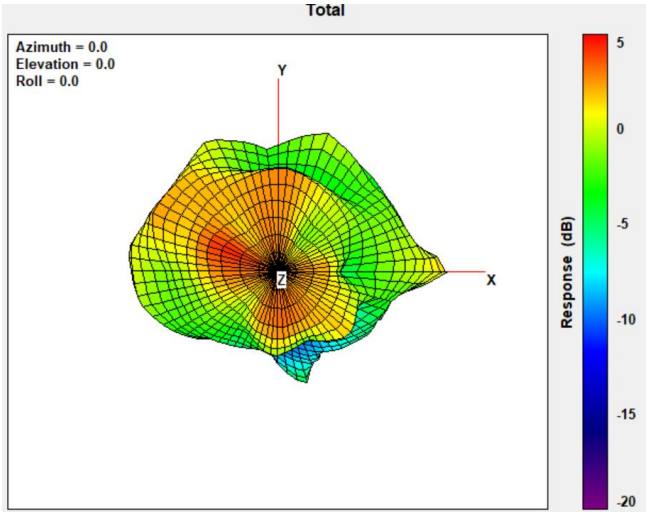
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.21



Max Antenna 3D Radiation Pattern 6875-7125 MHz

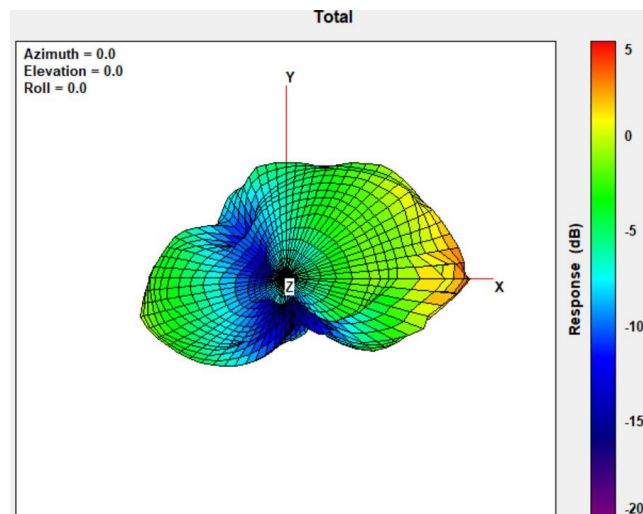
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.78



Auxiliary Antenna

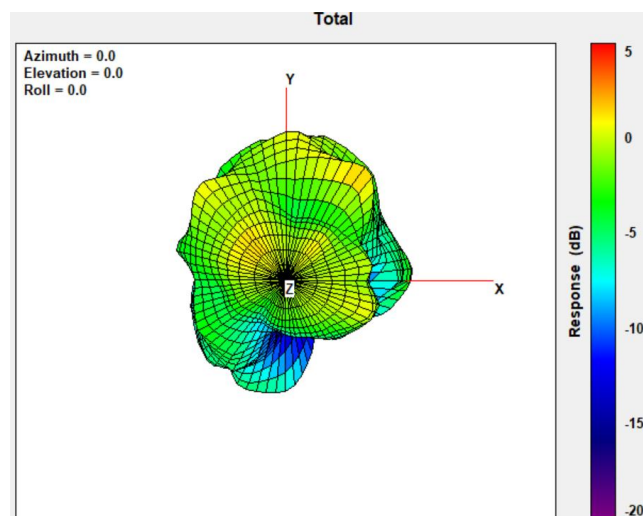
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.18



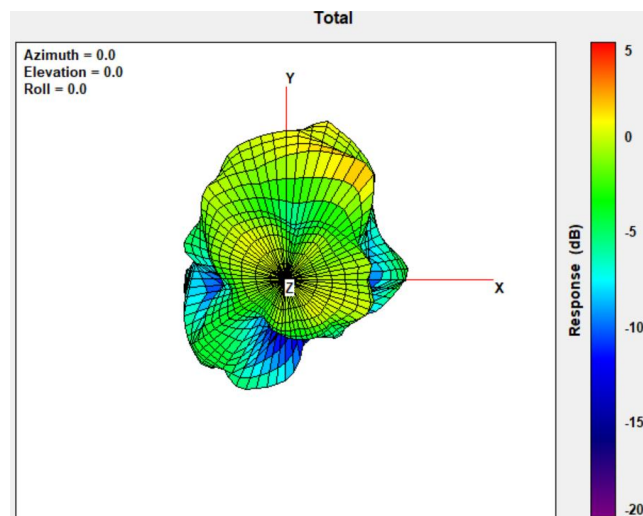
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.84



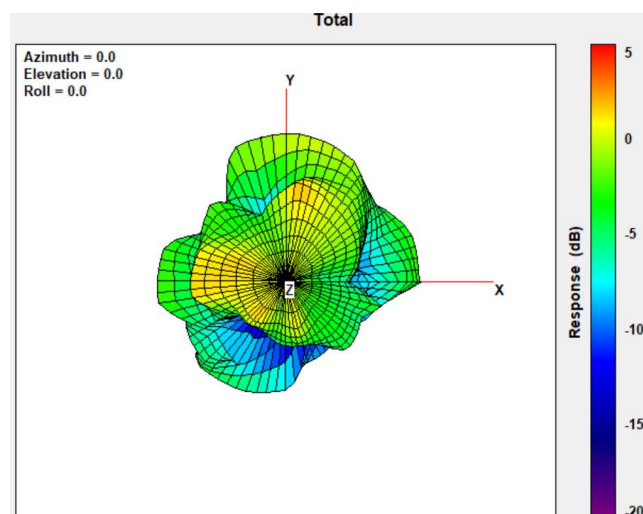
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	1.84



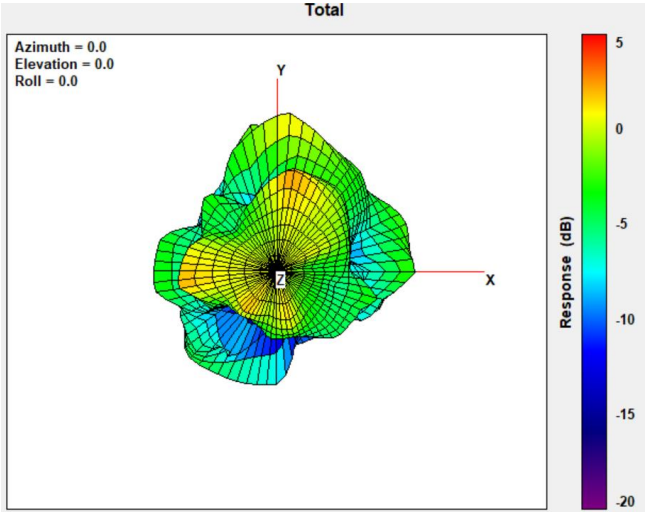
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.23



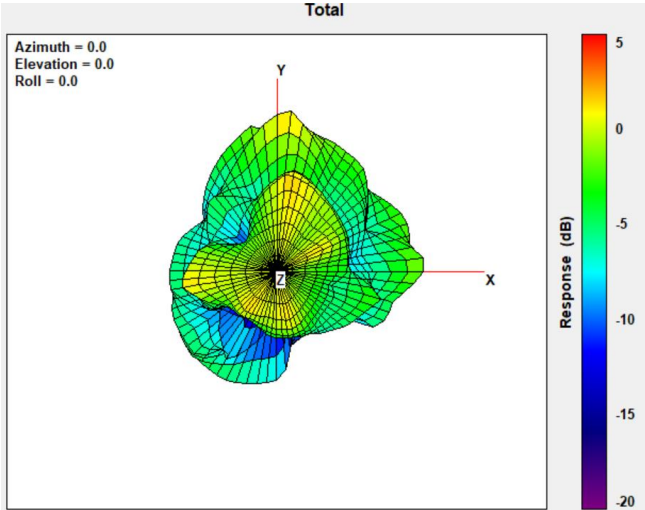
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.40



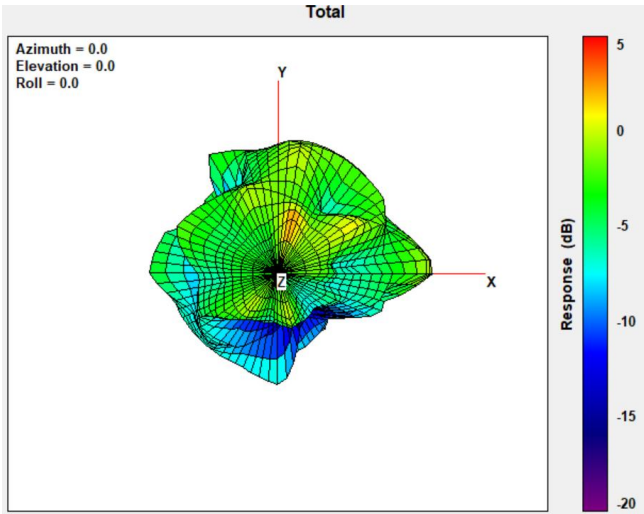
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.84



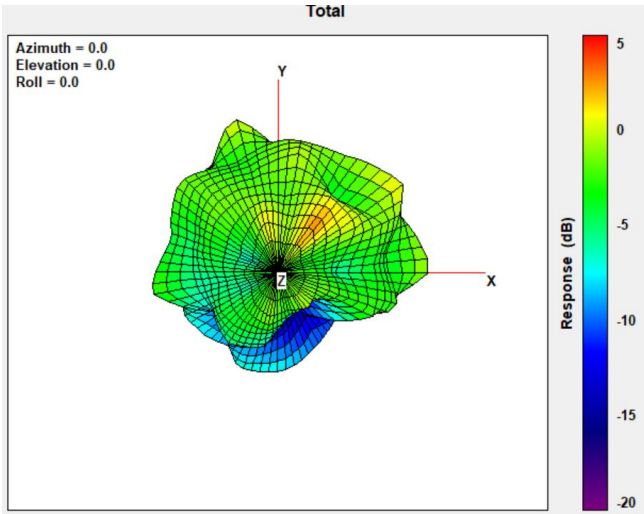
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.53



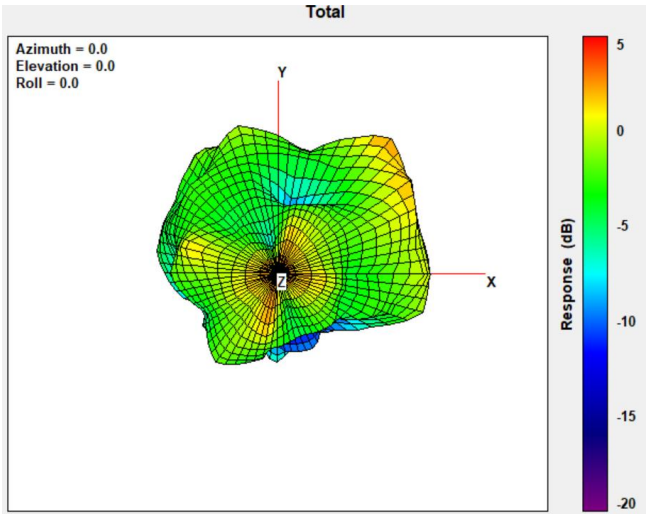
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.63



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.10



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.70

