

Regulatory WLAN Antenna Information

Platform information										
Brand	ODM		End product model name				Platform type (ex: regular NB, convertible PC, AIO...etc)			
ASUS	Inventec		M1607KA, M1607HA				Regular NB			
Antenna information										
Vendor		Type			Antenna Part number (Main)			Antenna Part number (Aux)		
INPAQ		PIFA			WA-P-LE-02-288			WA-P-LE-01-081		
Antenna Manufacturer Information										
INPAQ No.5,Chunqiu Road, Panyang Industrial Park Huangdai Town, Xiangcheng Zone, Suzhou ivanchang@inpaq.com.tw Ivan Chang 0917-035903										
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	1.53	1.33	2.21	3.4	1.41	2.27	2.46	1.96	2.29	2.04
Aux	1.74	1.14	1.22	3.46	2.43	3.18	1.99	1.39	1.01	1.08
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 RTL8822CE		Dipole			3.14		5		NA	
		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

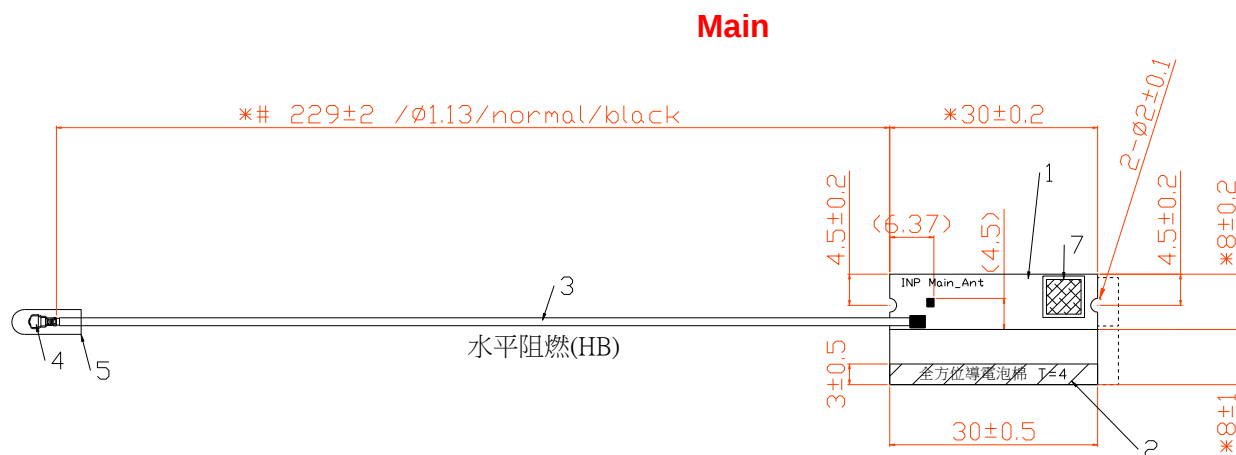
Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Total Peak Gain W/ Cable loss (dBi)	1F Total Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
P/N: WA-P-LE-02-288 Main Antenna	INPAQ	PIFA	50 ohm Coaxial length: 229 mm diameter: 1.13 mm Normal Cable Connector : I-PEX-4L	2400-2483.5	1.53	2.36	5.00	0.83
				5150-5250	1.33	2.54	5.00	1.21
				5250-5350	2.21	3.44	5.00	1.23
				5470-5725	3.40	4.66	5.00	1.26
				5725-5850	1.41	2.69	5.00	1.28
				5850-5895	2.27	3.56	5.00	1.29
				5925-6425	2.46	3.81	5.00	1.35
				6425-6525	1.96	3.34	5.00	1.38
				6525-6875	2.29	3.71	5.00	1.42
				6875-7125	2.04	3.51	5.00	1.47
P/N: WA-P-LE-01-081 Aux Antenna	INPAQ	PIFA	50 ohm Coaxial length: 487 mm diameter: 1.13 mm Normal Cable Connector :I-PEX-4L	2400-2483.5	1.74	3.49	5.00	1.75
				5150-5250	1.14	3.72	5.00	2.58
				5250-5350	1.22	3.83	5.00	2.61
				5470-5725	3.46	6.13	5.00	2.67
				5725-5850	2.43	5.15	5.00	2.72
				5850-5895	3.18	5.92	5.00	2.74
				5925-6425	1.99	4.86	5.00	2.87
				6425-6525	1.39	4.33	5.00	2.94
				6525-6875	1.01	4.03	5.00	3.02
				6875-7125	1.08	4.20	5.00	3.12

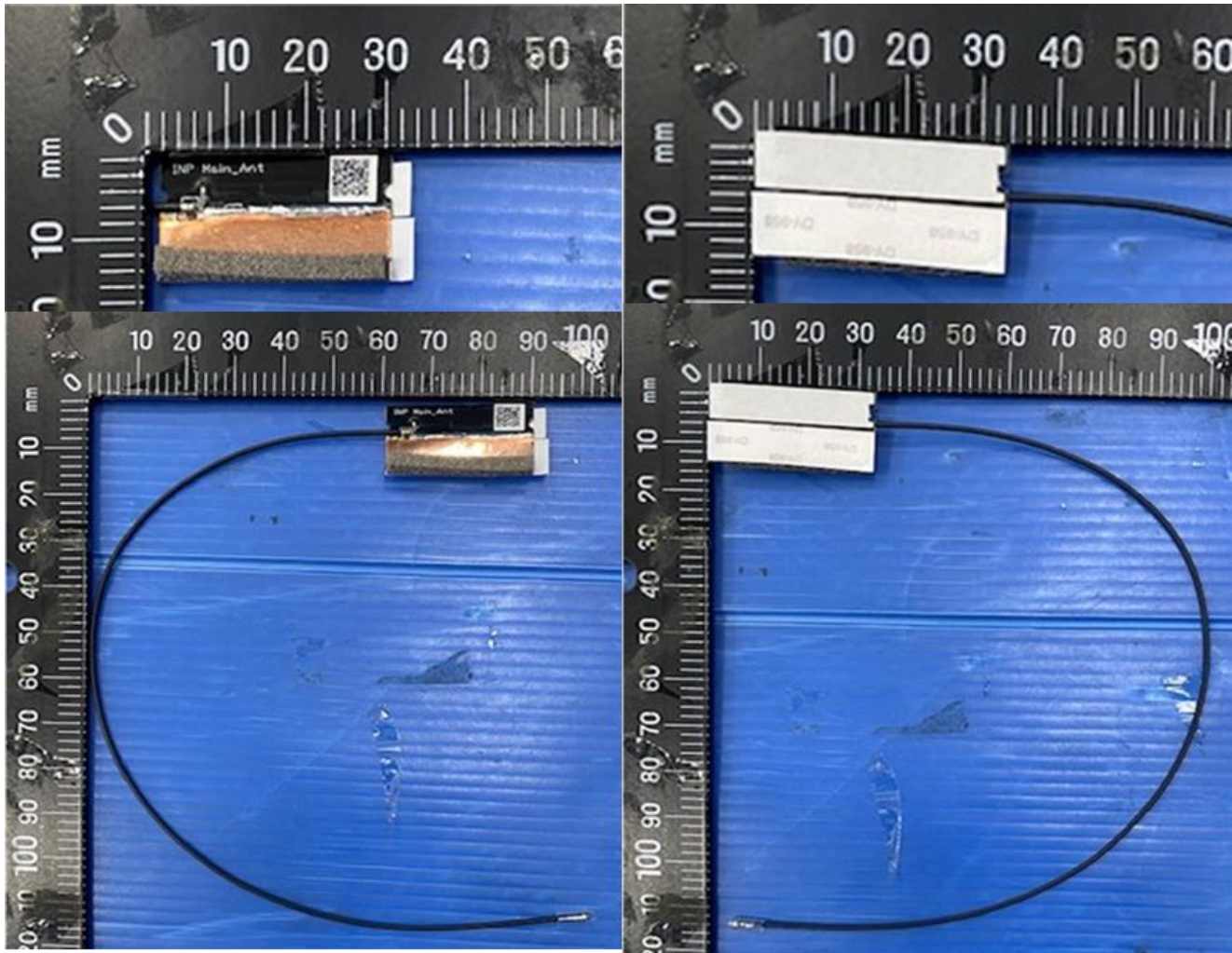
- 3D Antenna Peak Gain required being test in system basis.

Section 2. Dimensioned Photos and Drawings of Antennas

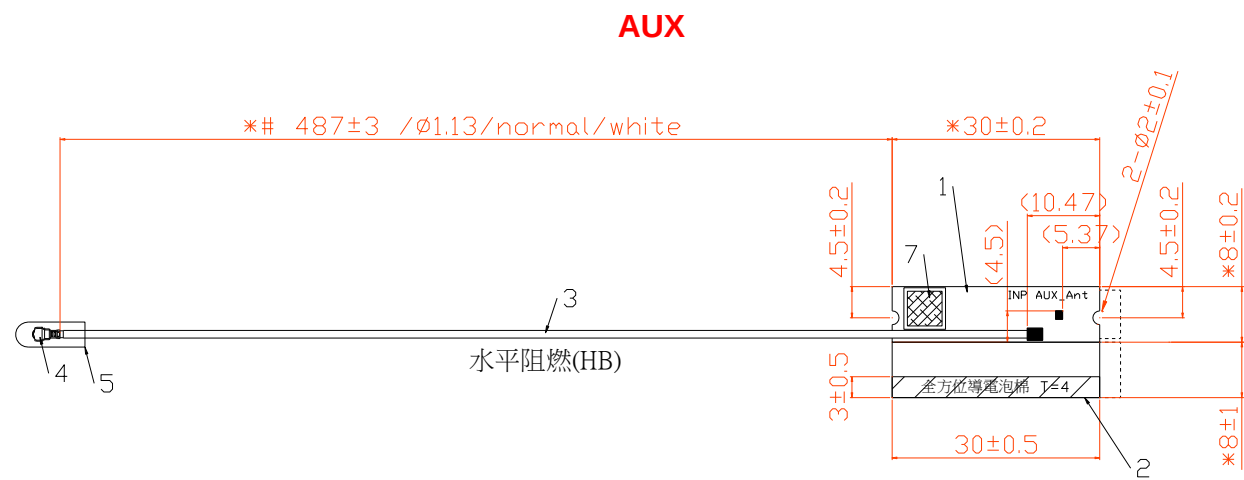
Main Antenna Drawing:



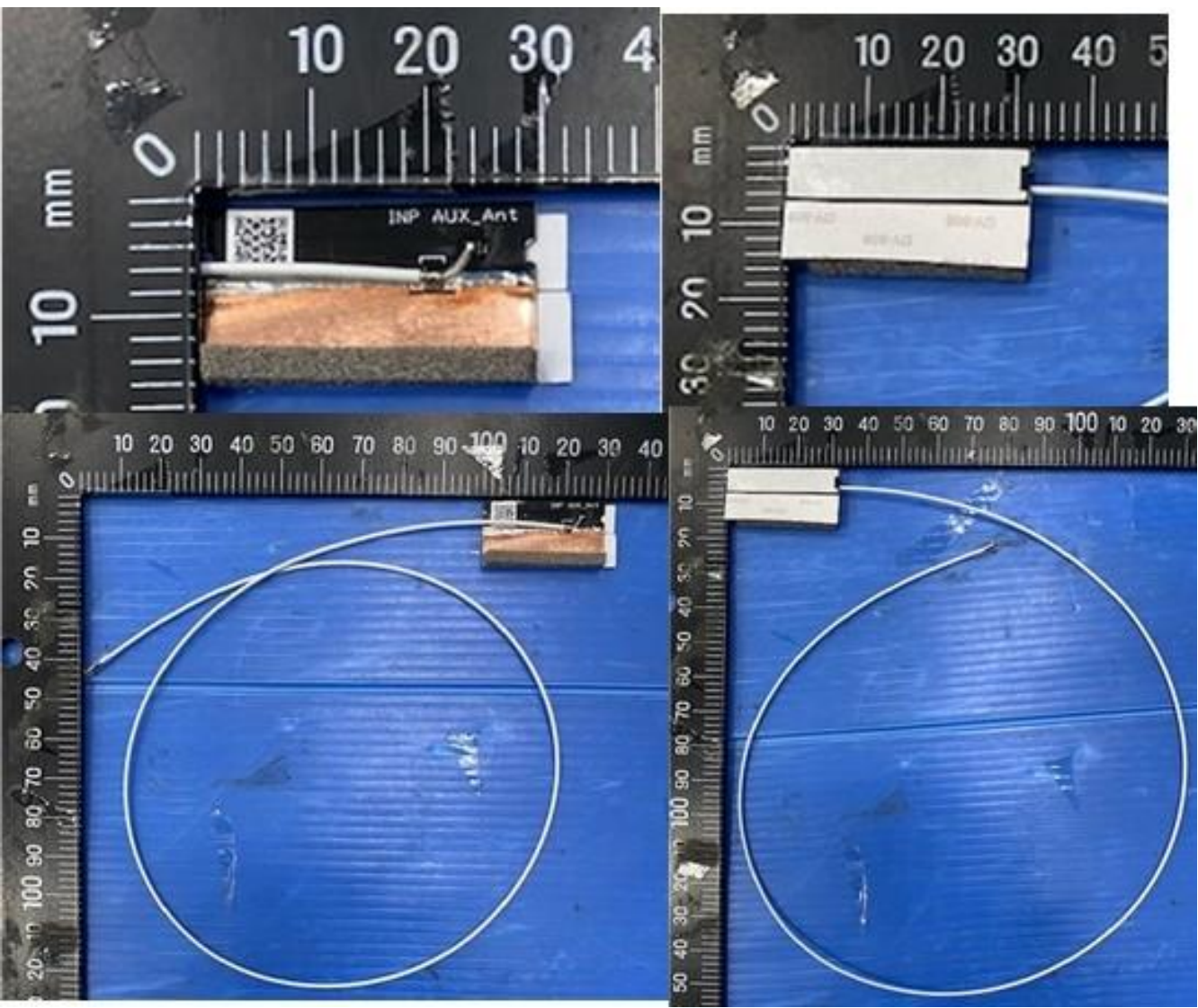
Main Antenna Photo (Front/Back):



Aux Antenna Drawing:



Aux Antenna Photo (Front/Back):

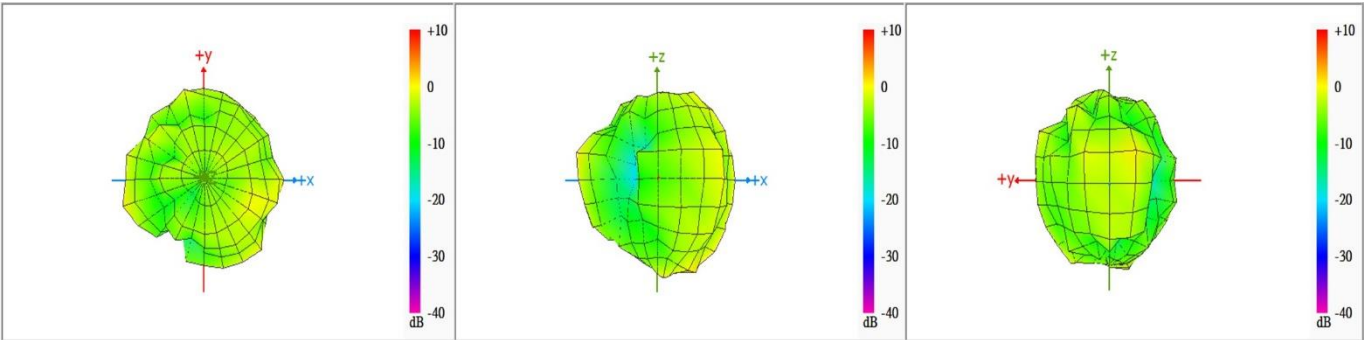


Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

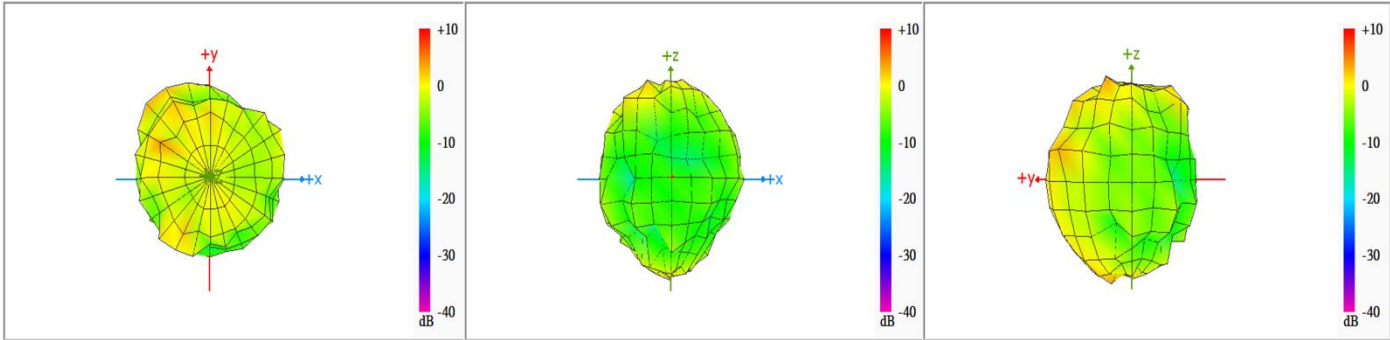
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.53



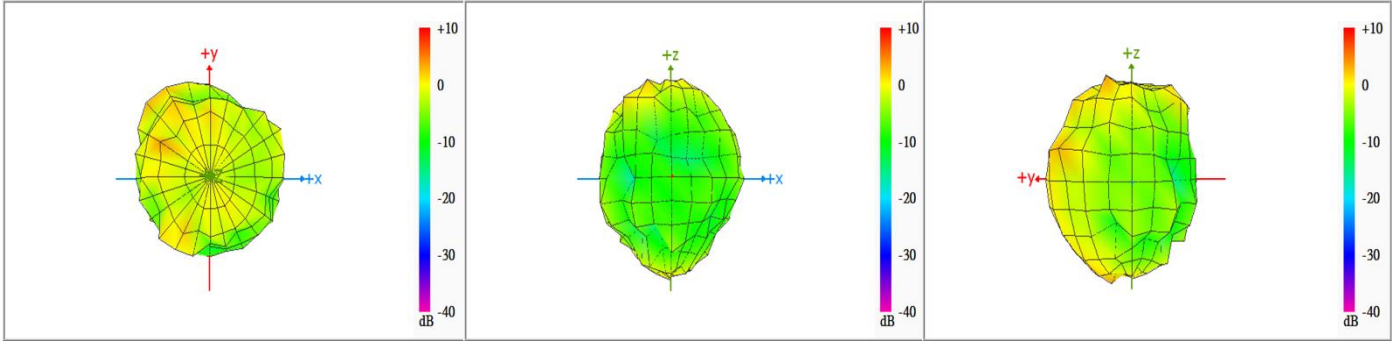
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.33



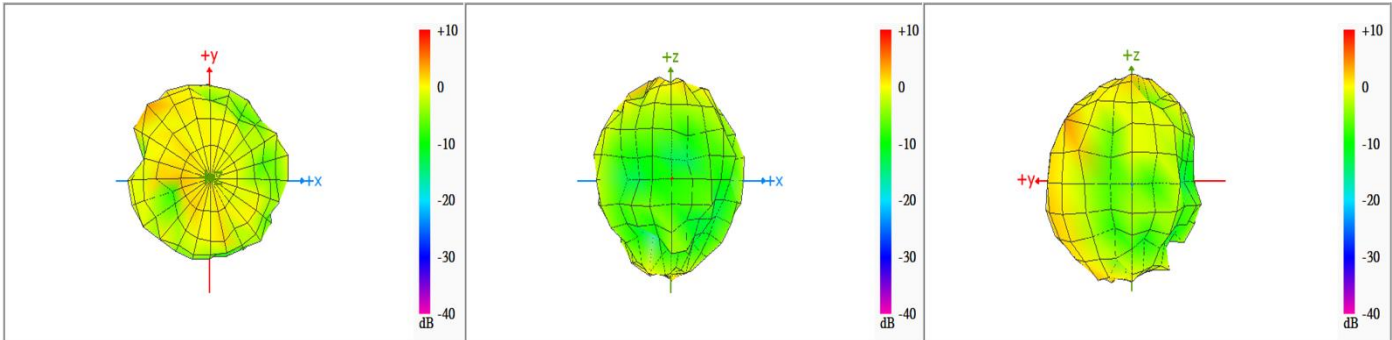
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.21



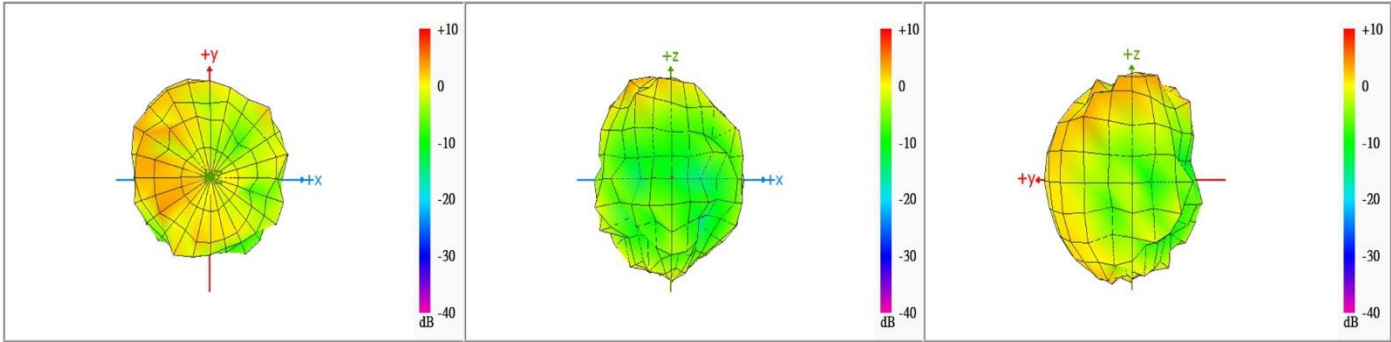
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.4



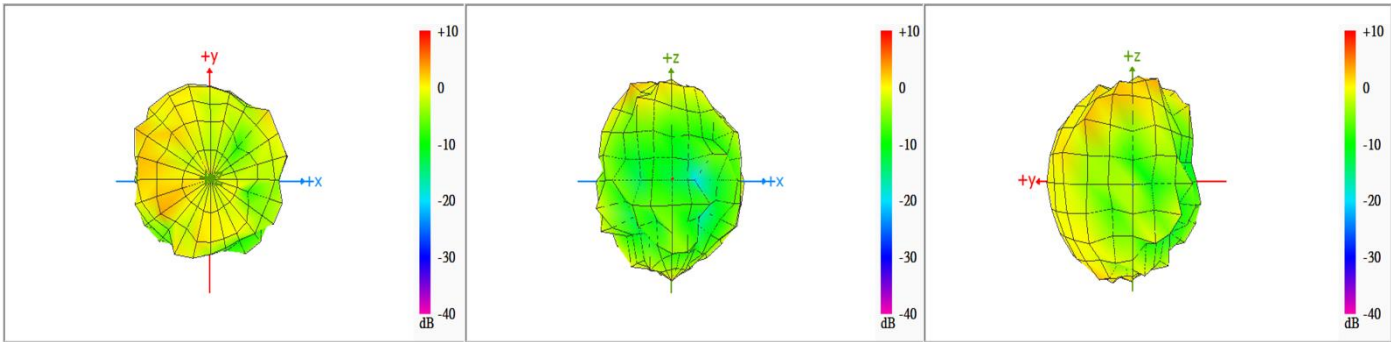
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	1.41



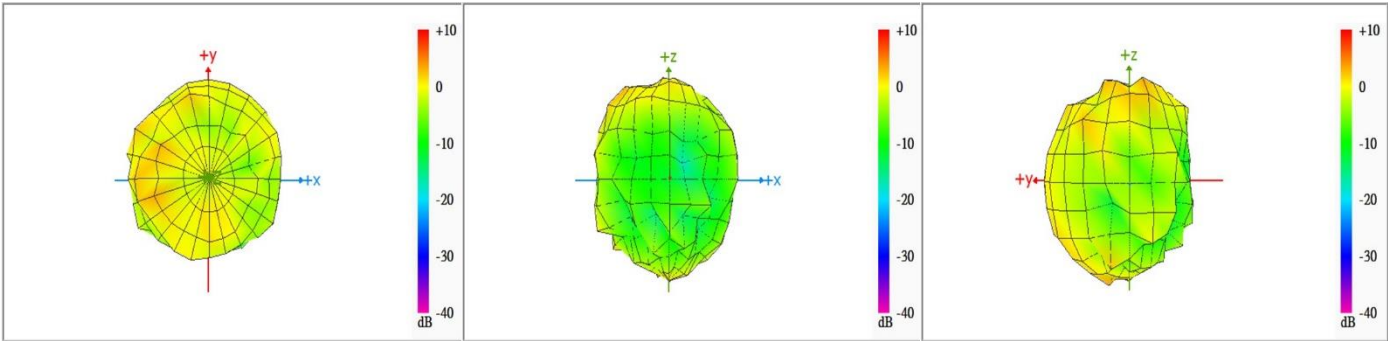
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.27



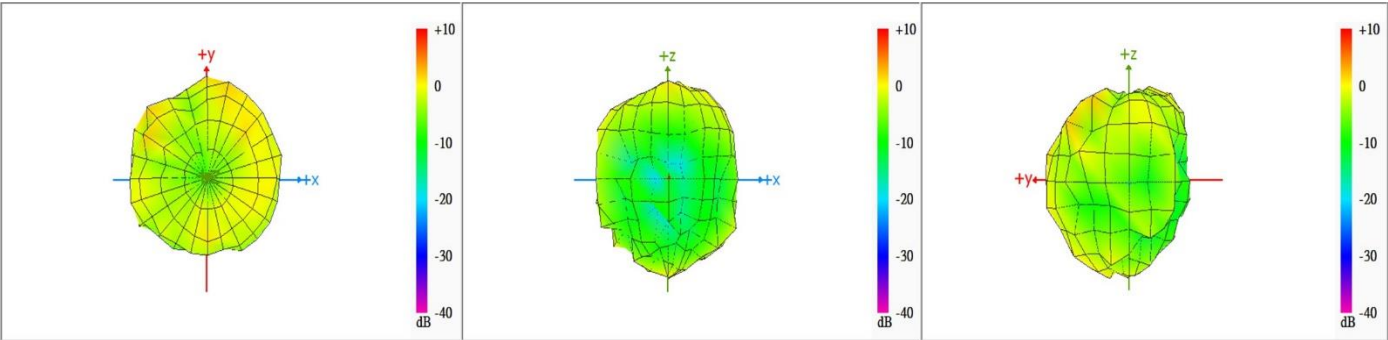
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.46



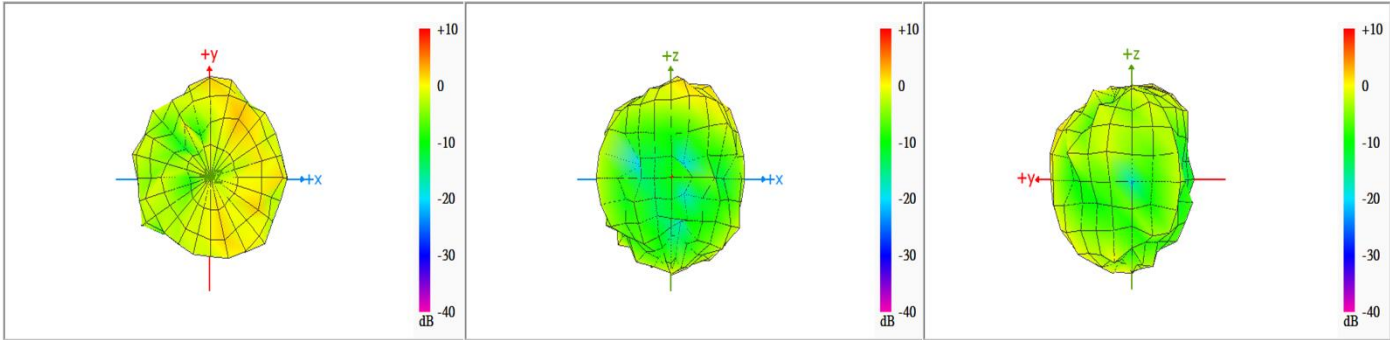
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	1.96



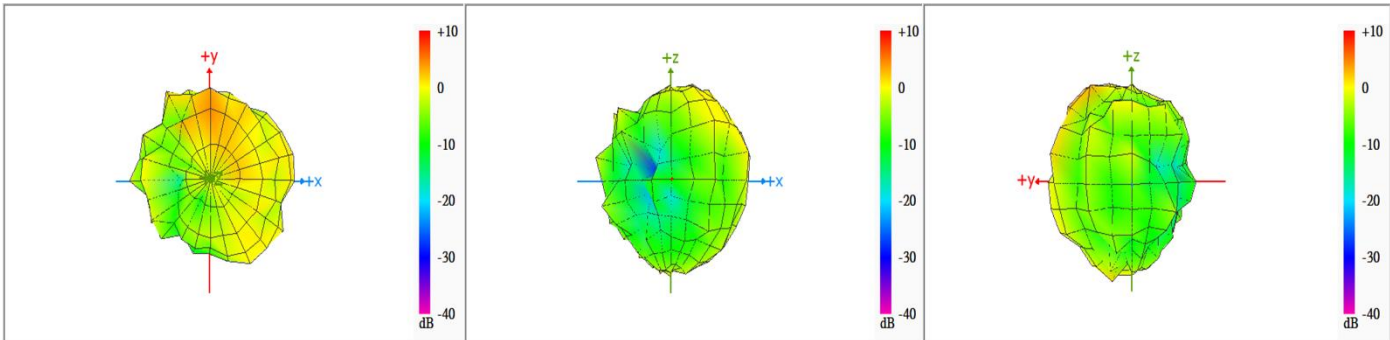
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.29



Max Antenna 3D Radiation Pattern 6875-7125 MHz

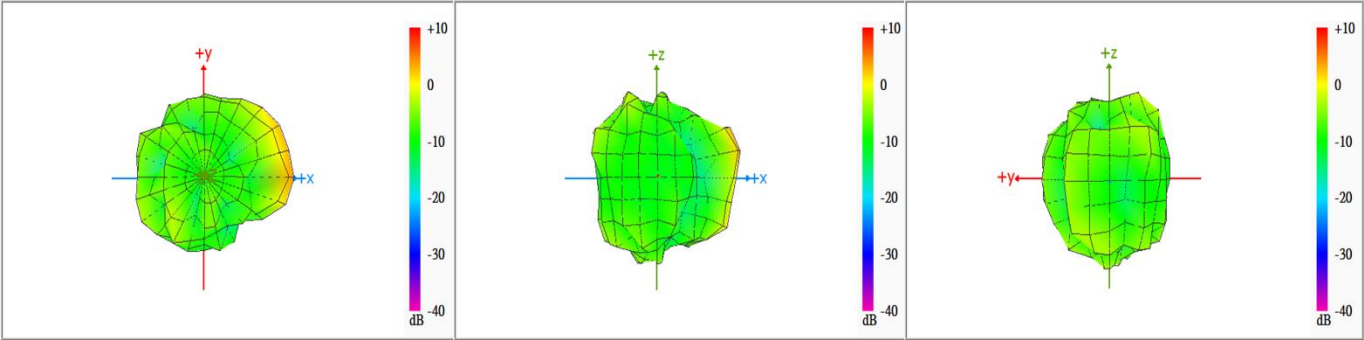
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.04



Auxiliary Antenna

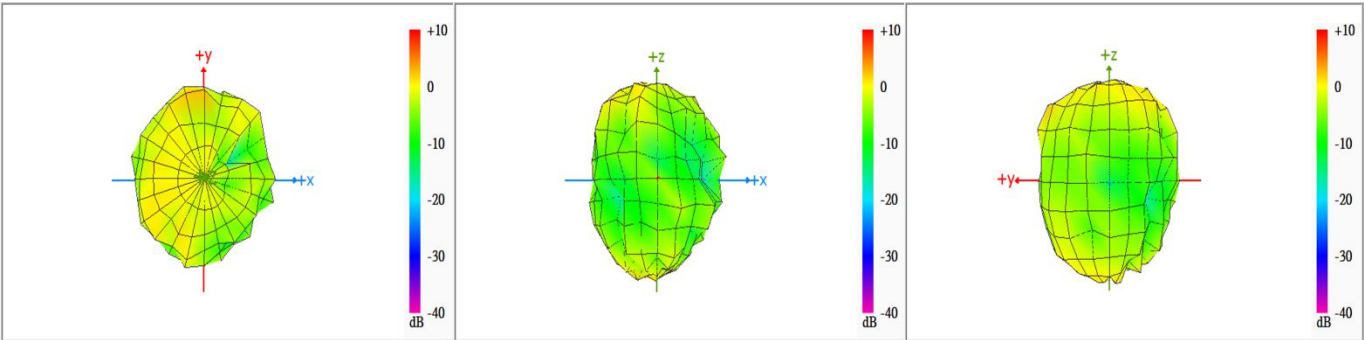
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.74



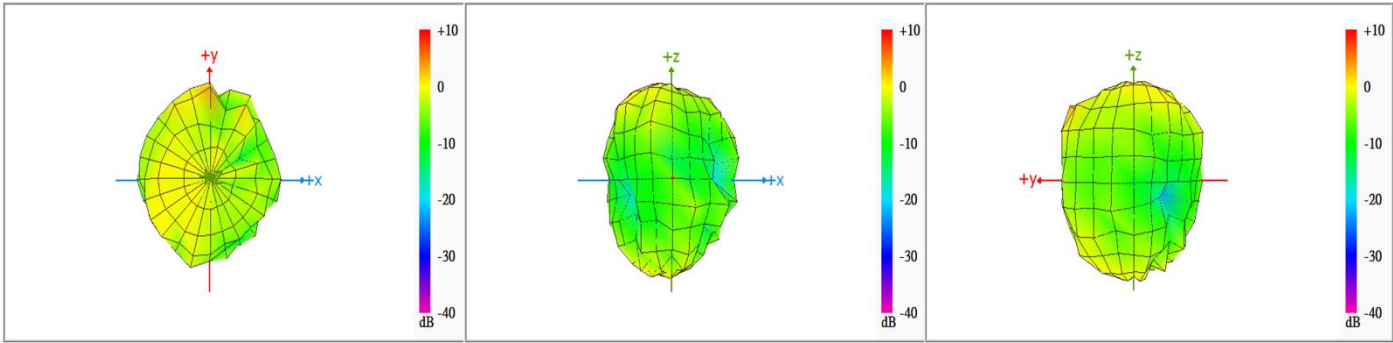
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.14



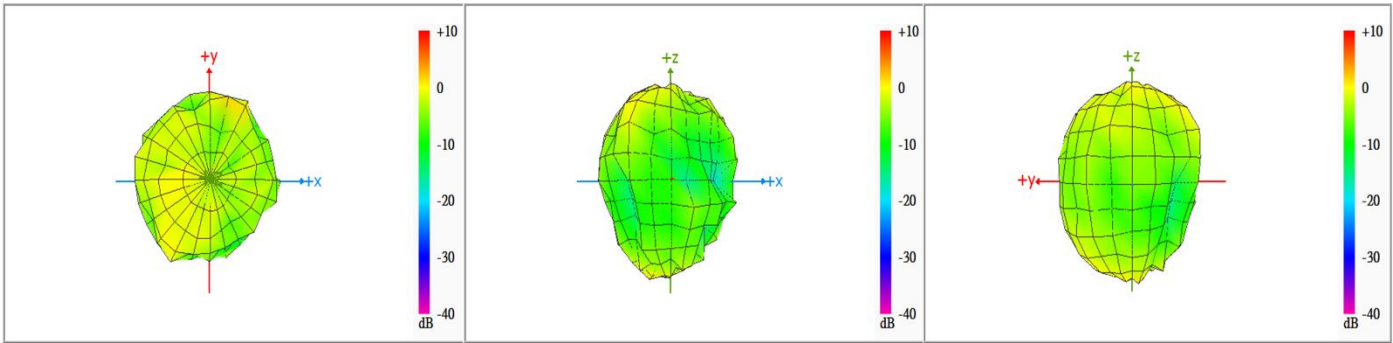
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	1.22



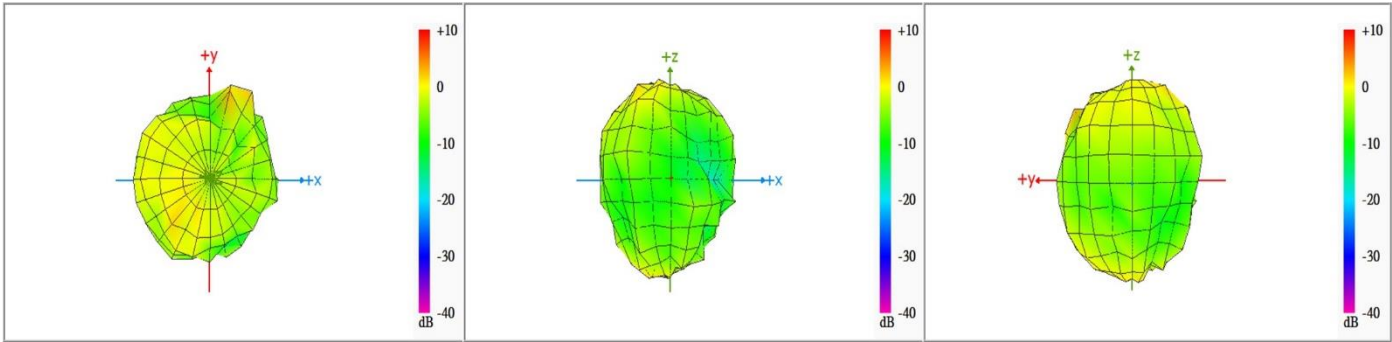
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.46



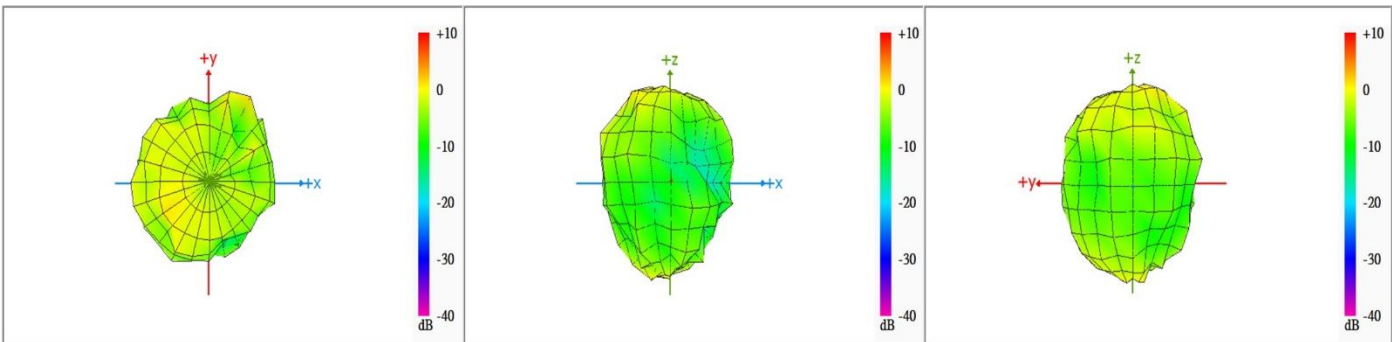
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.43



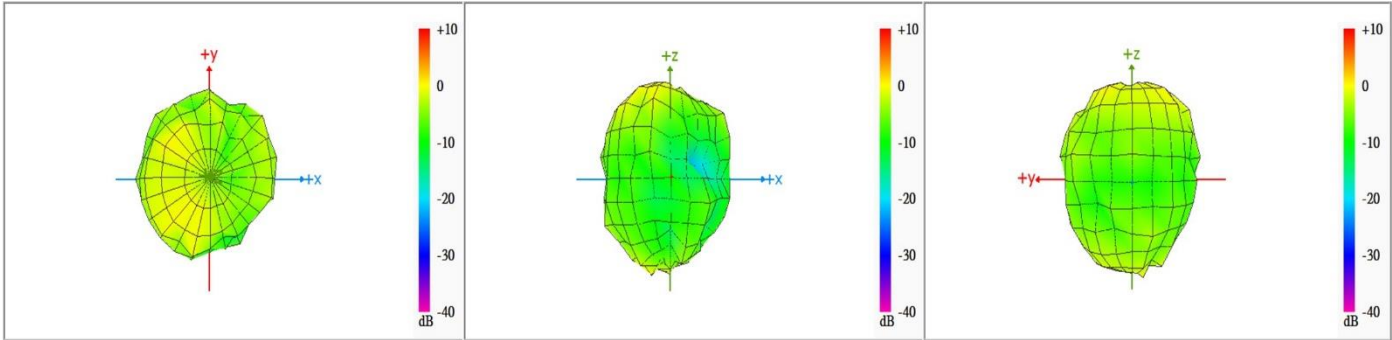
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.18



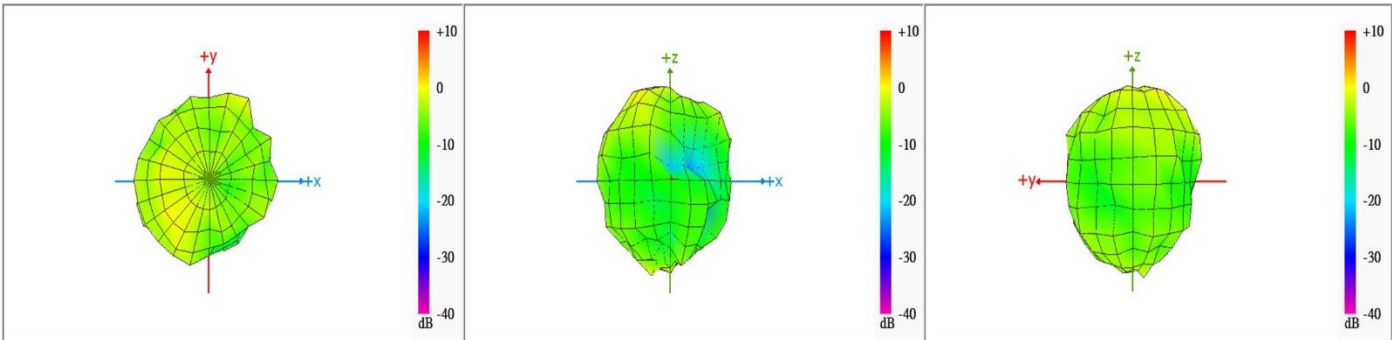
Max Antenna 3D Radiation Pattern 5925-6425 MHz

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



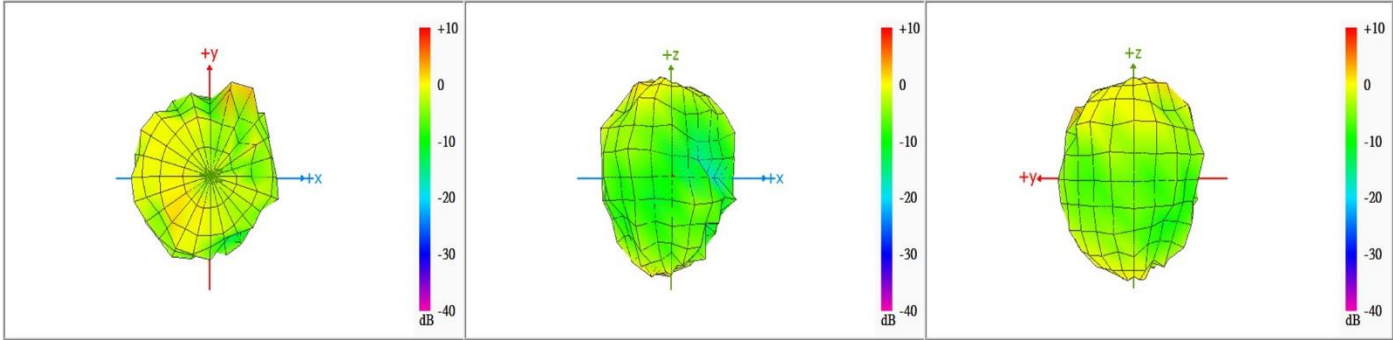
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	1.39



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	1.01



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	1.08

