

4G/5G Desk Mount 4x4 MiMo Antenna

DMM4-6-60[-VAR]

PANORAMA ANTENNAS



4G/5G 4x4 MiMo Antenna

- Provides 4x4 MiMo function for 5G/4G
- Ultra Wideband: 617-960/1427-6000MHz
- Desk, window or wall mount
 - Highly portable - features integral desk stand and suction mount
 - Screw and adhesive pad mounting options also provided
- Supplied with 4x 2m (6') of RG174 coaxial cable, fitted with SMA, FAKRA D or TS9 connectors.

The DMM4 antenna is a future proof solution for Cat 18/20 4G and 5G devices.

Incorporating four separately fed, ultra wide band elements for 617-960/1427-6000MHz in a single housing, the DMM4 provides a 4x4 MiMo function. It can also provide 2x 2x2 MiMo function for a router with dual modems, each requiring a 2x2 antenna system.

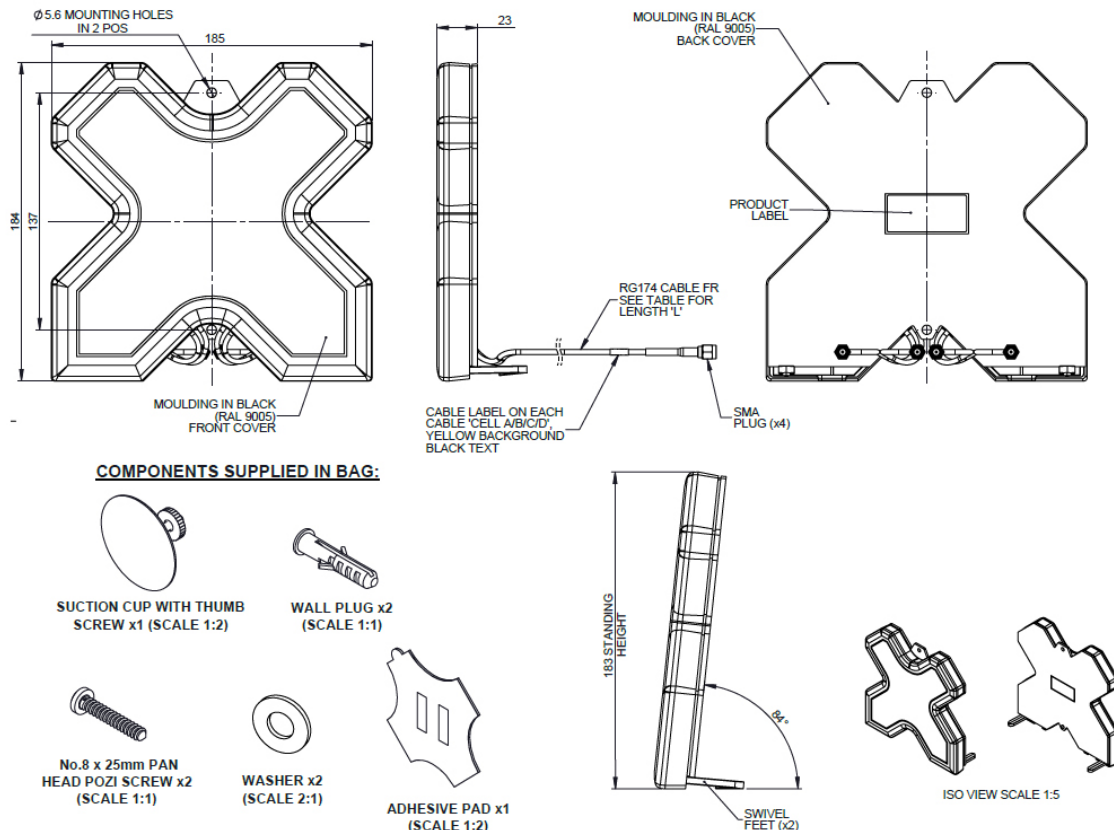
The DMM4 is highly portable and features desk mount feet which fold out for use, and flat for transport. A suction window mount enables the user to optimise their signal in multiple locations, with instant installation and easy removal. For more permanent use, screw and adhesive pad mounting options are also provided.

The antenna is supplied with two twinned 2m (6') length coaxial cables, with the option of SMA, TS9 or FAKRA D connectors.

The DMM4 is a cost effective value added product for network operators and service providers ensuring a stable link with improved data rates for subscribers, thereby improving satisfaction and retention.

Technical Drawing

DMM4-6-60-2SP Shown



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Product Data

Part No.			
DMM4-6-60-2SP		DMM4-6-60-2TS9	DMM4-6-60-2FDJ
Electrical Data			
Frequency Range (MHz)	Antennas 1-4	617-960 / 1710-6000	
Operational Bands		5G / 4G	
Radiation Pattern		Omni-directional	
Typical VSWR*		< 2.5:1	
Peak Gain†	617-960MHz	2.7dBi	
	1427-4200MHz	5.5dBi	
	4400-6000MHz	4.5dBi	
Typical Efficiency ‡	617-960MHz	56%	
	1427-4200MHz	61%	
	4400-6000MHz	43%	
Worst Case Element Isolation*		>10dB	
Max Input Power (W)		2 Watts	
Impedance		50Ω	
Mechanical Data			
Dimensions (mm)	Height	185 (7.3")	
	Width	184 (7.2")	
	Depth	23 (0.9")	
Operating Temp (°C)		-40° / +80°C (-40° /180°F)	
Material		U.V. Stabilised ASA	
Colour		Black	
Mounting Data			
Fixing		Desk mount / screw mount / window mount / adhesive mount	
Cable Data			
Type		4 x RG174	
Diameter (mm)		2.8 (0.1")	
Length (m)		2 (6.5')	
Termination	4× SMA (m)	4× TS9 (m)	4x Fakra D Jack

† Peak gain and efficiency measured in free space with 0.5m (1.64') of RG174 cable.

* Typical VSWR measured in free space with 0.5m (1.64') of RG174 cable.

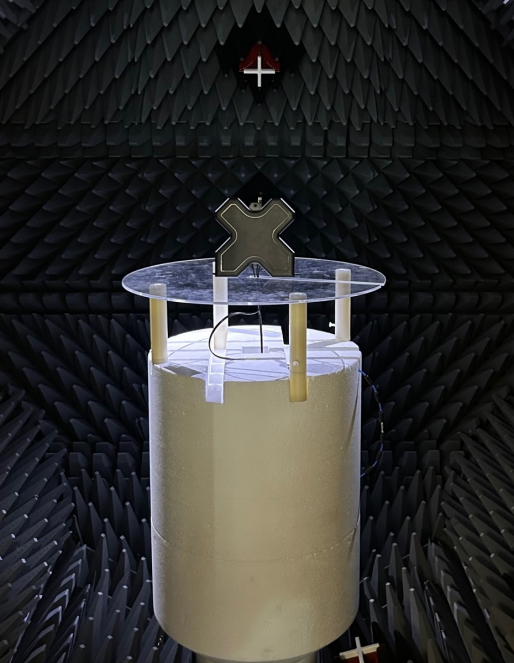
** Worst case element isolation measured in free space between adjacent elements with 0.5m (1.64') of RG174 cable

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Electrical Data Cell -
Free Space

Measurement Conditions	4G/5G Antennas				
DMM4-6-60[-VAR] measured in free space with 0.5m (1.64') of RG174 Cable	Frequency Range (MHz)	LTE /NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71, 105	Cell A	2.3	53
			Cell B	2.5	53
			Cell C	1.5	56
			Cell D	1.5	59
	699-798	12,13, 14 17,28	Cell A	2.3	56
			Cell B	2.5	57
			Cell C	2.7	53
			Cell D	2.1	57
	807- 862	5,19,20,26,27	Cell A	2.4	56
			Cell B	2.2	55
			Cell C	2.2	56
			Cell D	2.1	60
	880-960	8	Cell A	2.4	57
			Cell B	2.2	57
			Cell C	2.3	55
			Cell D	1.9	55
	1427-1518	11, 21, 74,75,76	Cell A	4.0	59
			Cell B	4.0	60
			Cell C	4.7	62
			Cell D	2.9	59
	1710-1920	2,3,4,9,25,35,39,66	Cell A	3.5	59
			Cell B	3.2	60
			Cell C	3.6	58
			Cell D	3.0	59
	1920-2170	1,23	Cell A	3.8	61
			Cell B	3.4	61
			Cell C	3.6	62
			Cell D	3.0	62
	2300-2400	30,40	Cell A	4.4	66
			Cell B	4.5	67
			Cell C	3.5	68
			Cell D	3.9	69
	2496-2690	7,38,41	Cell A	5.3	68
			Cell B	5.5	69
			Cell C	4.8	68
			Cell D	4.7	68
	3300-4200	22,42,43,48,77,78	Cell A	3.8	49
			Cell B	4.3	49
			Cell C	4.0	50
			Cell D	4.8	51
	4400-5000	79	Cell A	2.8	46
			Cell B	2.9	46
			Cell C	4.5	42
			Cell D	2.5	45
	5000-6000	96, 102, 104	Cell A	3.1	42
			Cell B	3.0	42
			Cell C	4.0	41
			Cell D	2.4	43

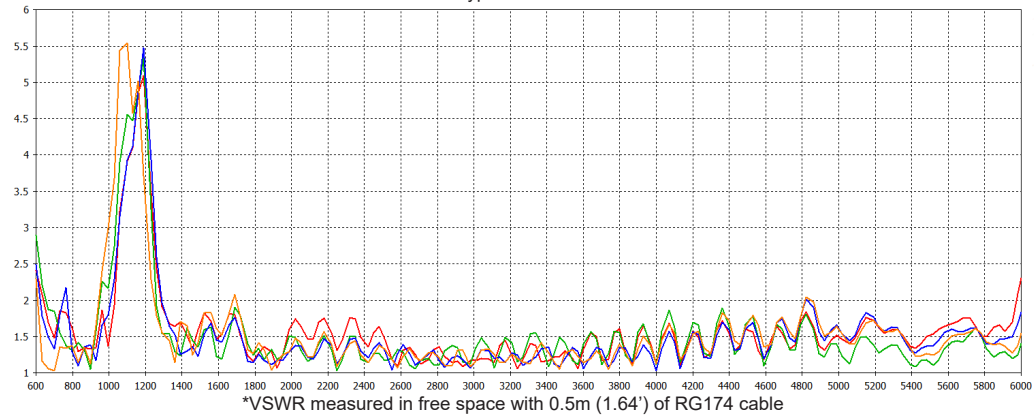
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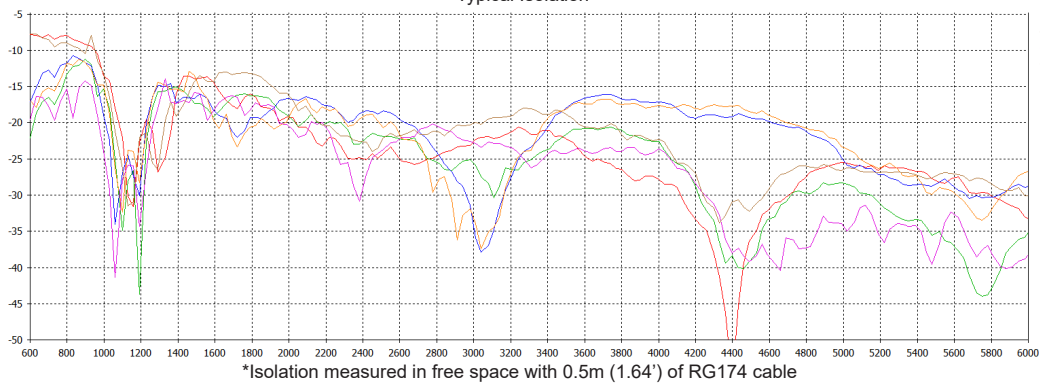
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Electrical Data Cell -
Free Space

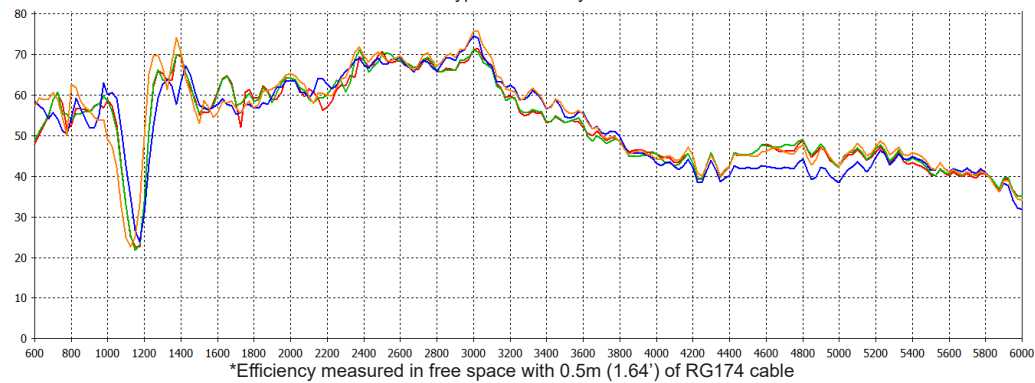
Typical VSWR*



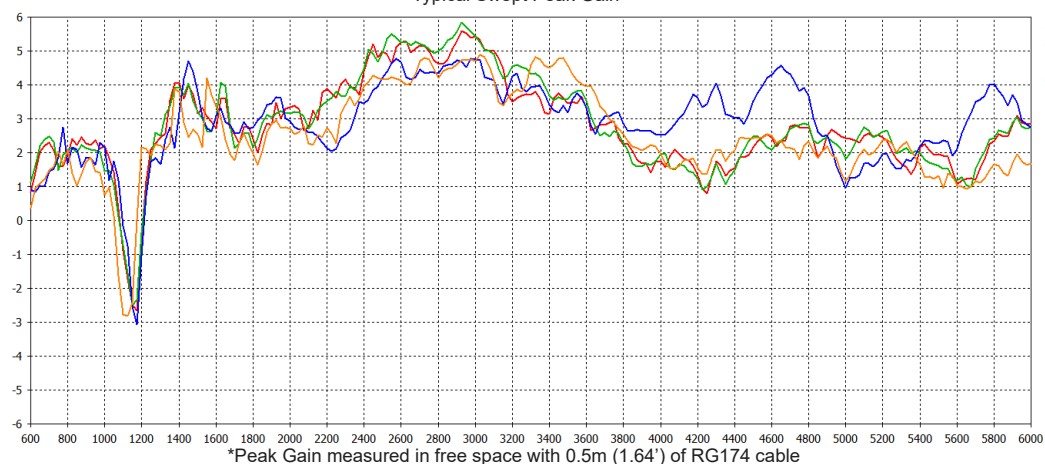
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



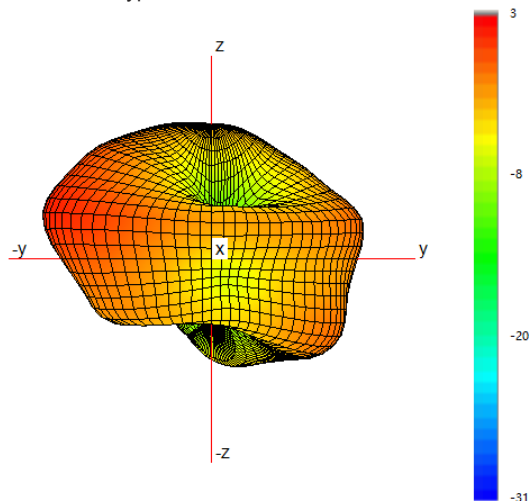
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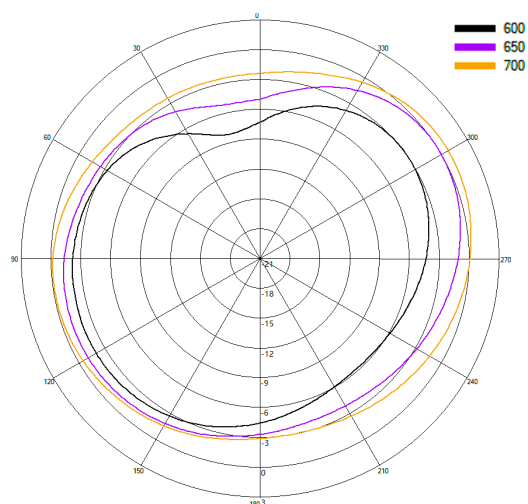
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3D Pattern Data in
Free Space Cell A

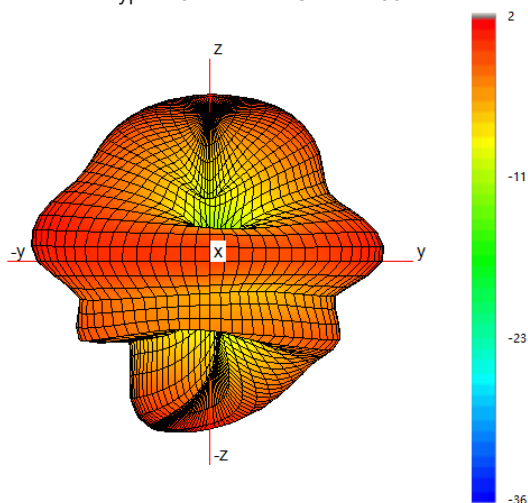
Typical 3D Pattern- Cell A - 650 MHz



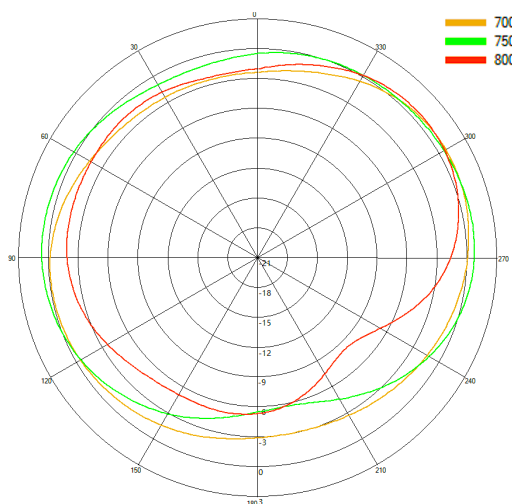
Typical H Plane- Cell A - Patterns- 600-700MHz



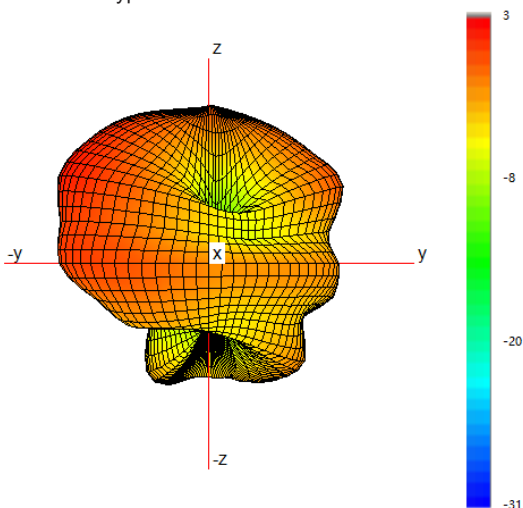
Typical 3D Pattern- Cell A - 750 MHz



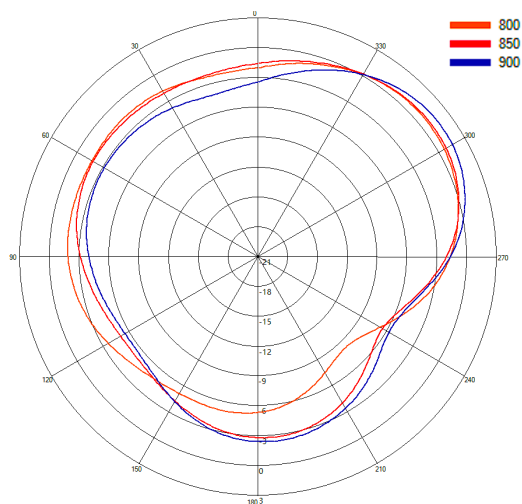
Typical H Plane- Cell A - Patterns- 700-800MHz



Typical 3D Pattern- Cell A - 850 MHz



Typical H Plane- Cell A - Patterns- 800-900MHz



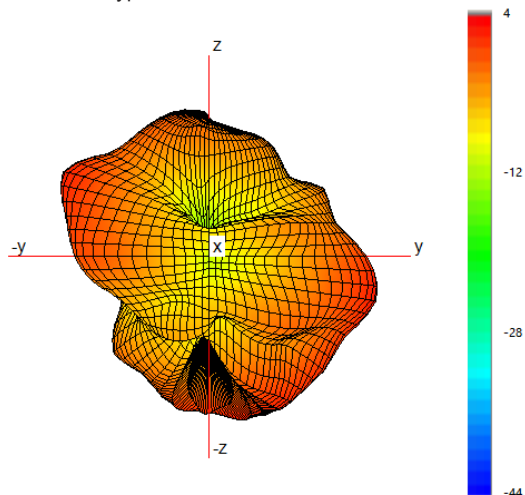
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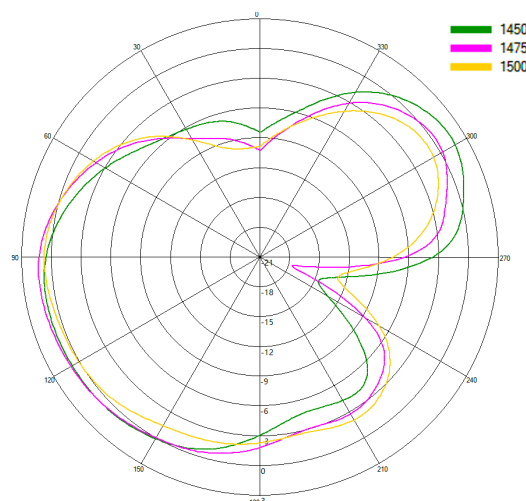
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3D Pattern Data in
Free Space Cell A

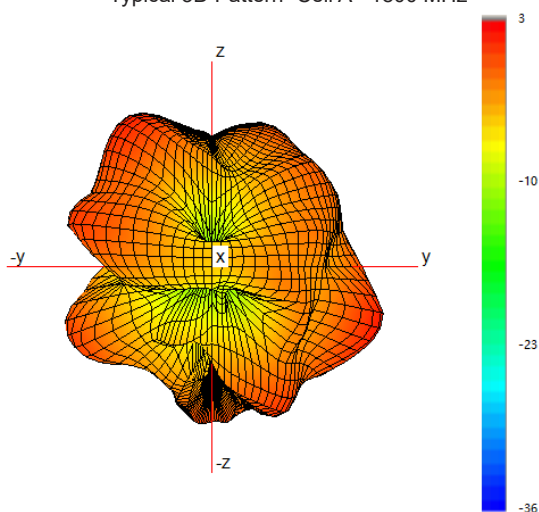
Typical 3D Pattern- Cell A - 1475 MHz



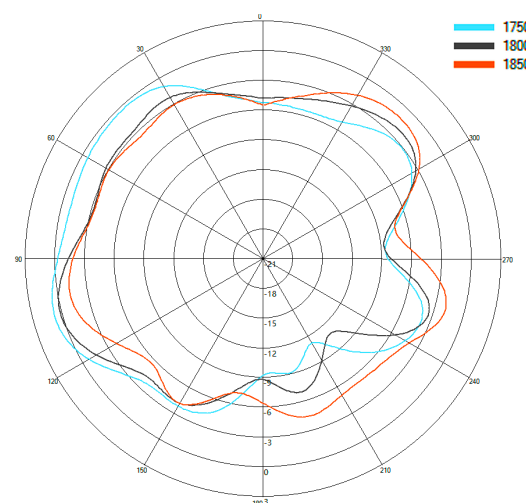
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



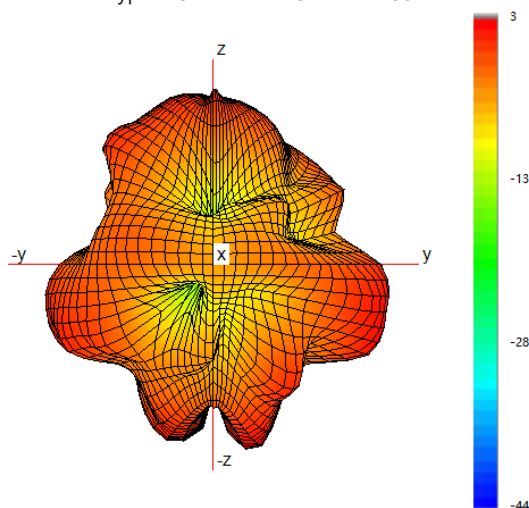
Typical 3D Pattern- Cell A - 1800 MHz



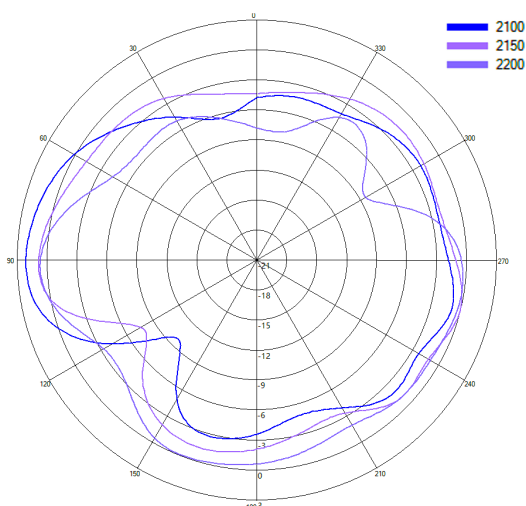
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



Typical H Plane- Cell A- Patterns- 2100-2200 MHz



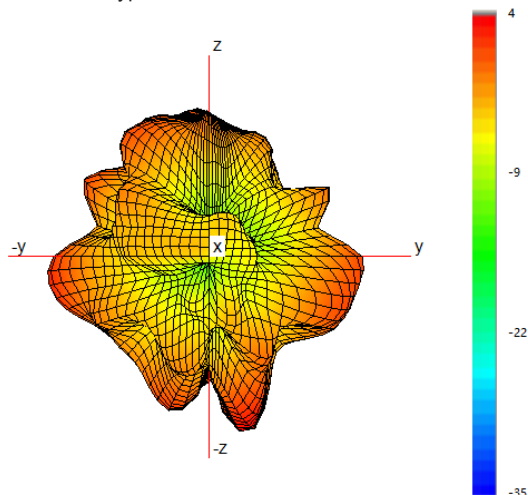
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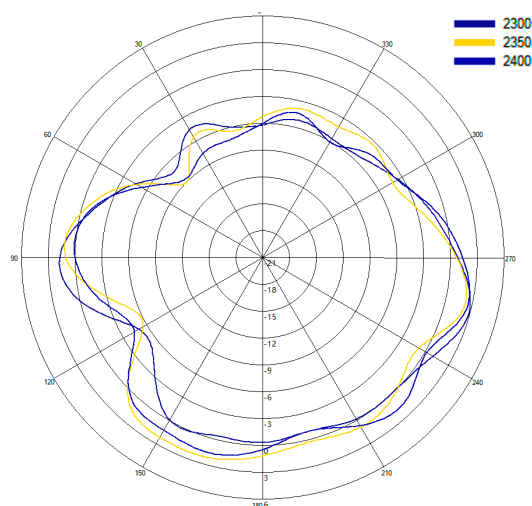
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3D Pattern Data in
Free Space Cell A

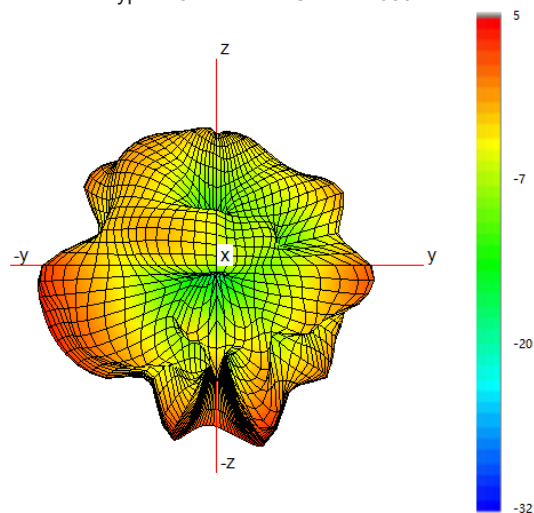
Typical 3D Pattern- Cell A - 2350 MHz



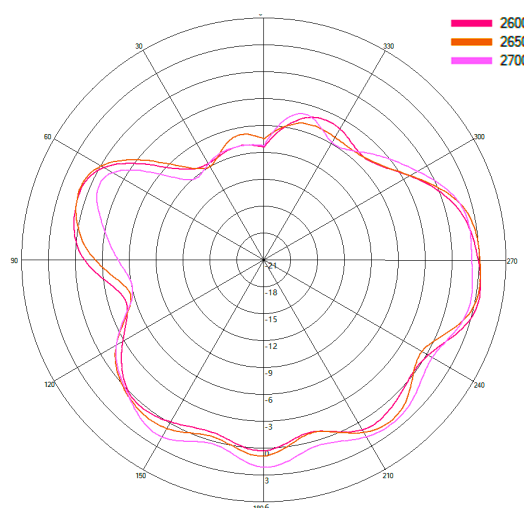
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



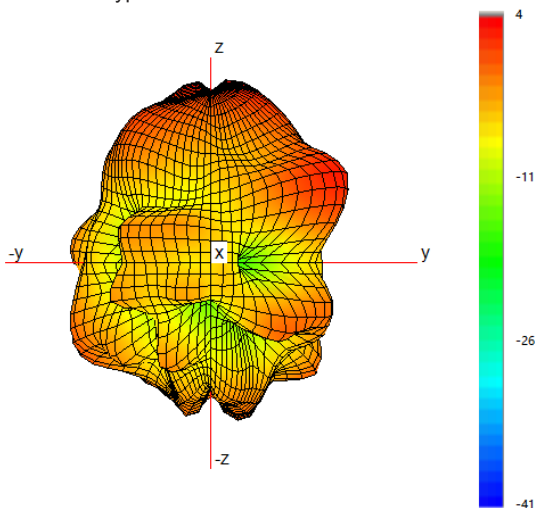
Typical 3D Pattern- Cell A - 2650 MHz



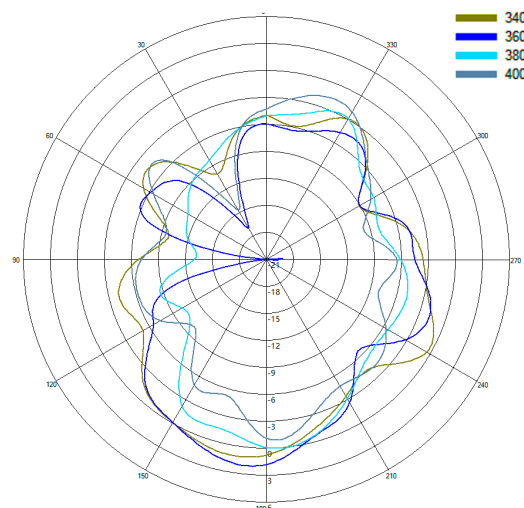
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



Typical H Plane- Cell A - Patterns- 3400-4000 MHz



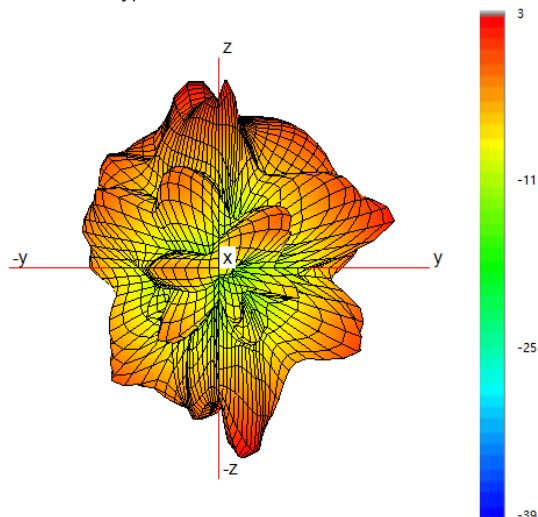
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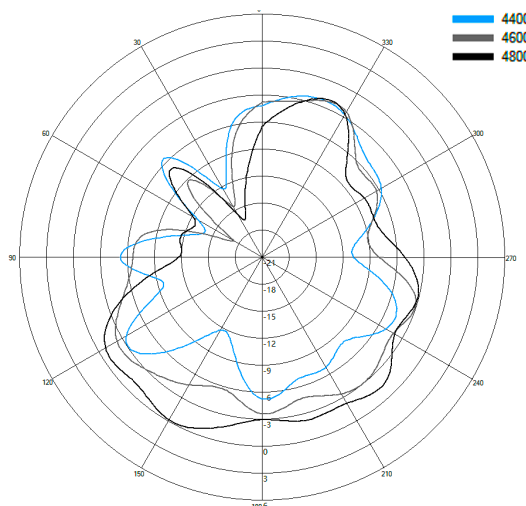
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3D Pattern Data in
Free Space Cell A

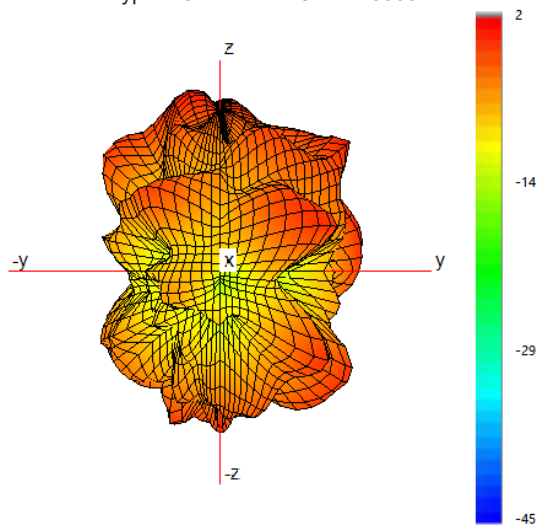
Typical 3D Pattern- Cell A - 4700 MHz



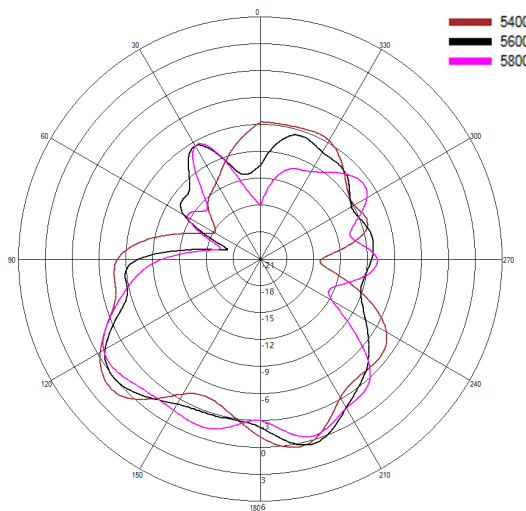
Typical H Plane- Cell A - Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell A - 5600 MHz



Typical H Plane- Cell A - Patterns- 5400-5800 MHz



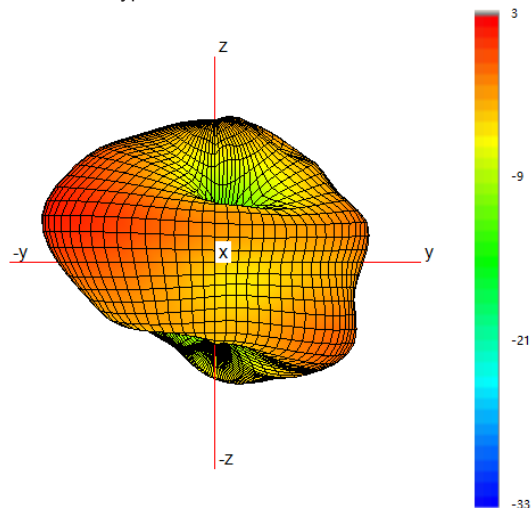
4G/5G Desk Mount 4x4 MiMo Antenna

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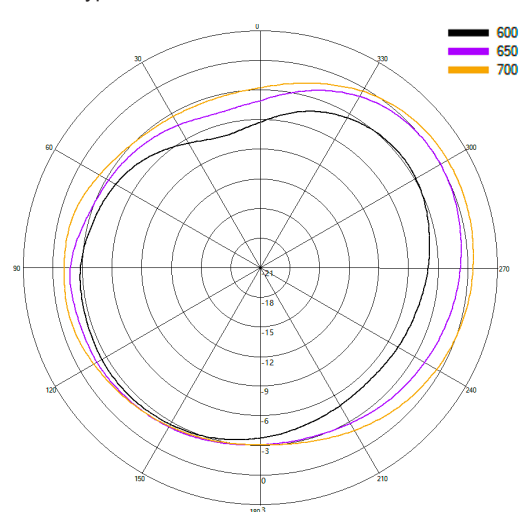
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3D Pattern Data in
Free Space Cell B

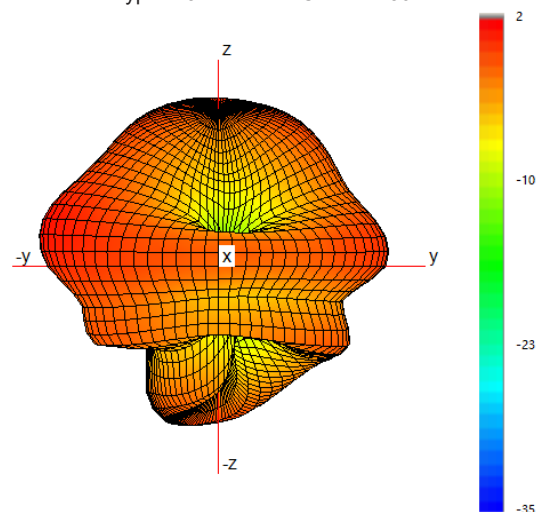
Typical 3D Pattern- Cell B - 650 MHz



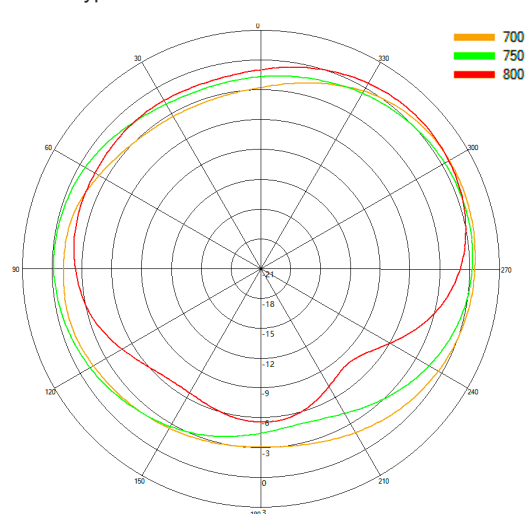
Typical H Plane- Cell B - Patterns- 600-700MHz



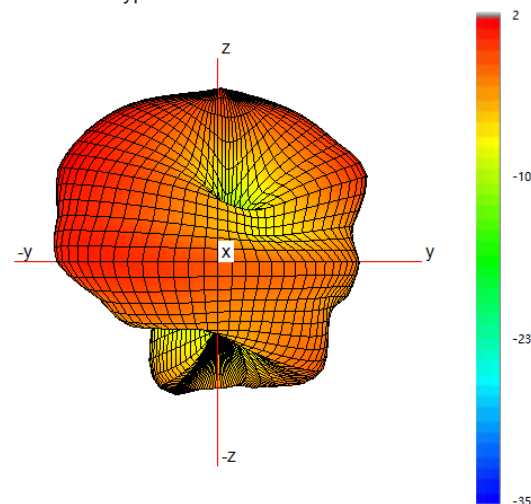
Typical 3D Pattern- Cell B - 750 MHz



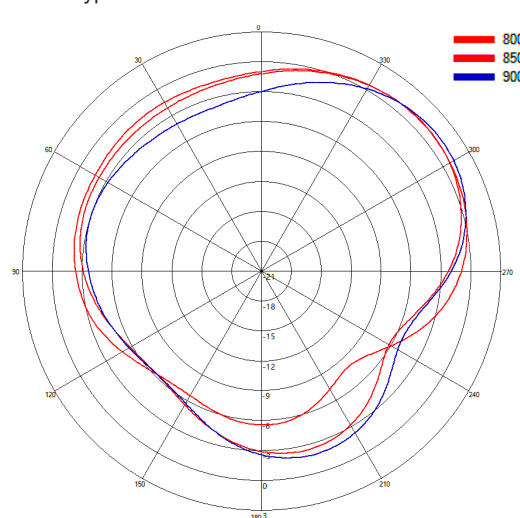
Typical H Plane- Cell B - Patterns- 700-800MHz



Typical 3D Pattern- Cell B - 850 MHz



Typical H Plane- Cell B - Patterns- 800-900MHz



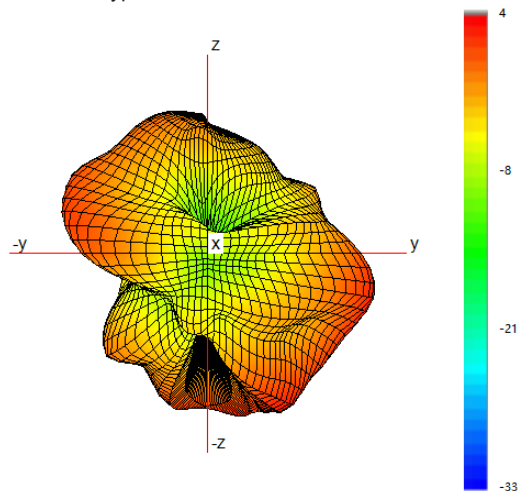
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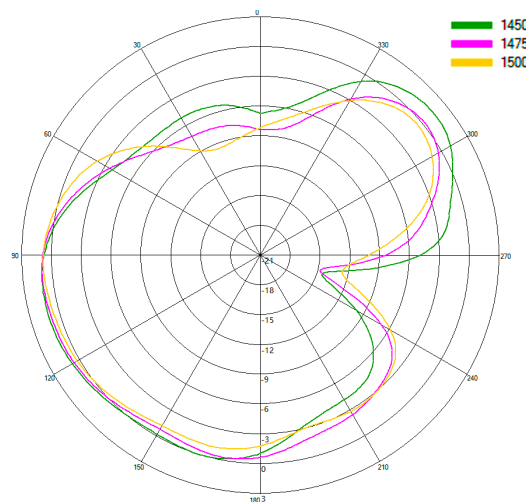
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3D Pattern Data in
Free Space Cell B

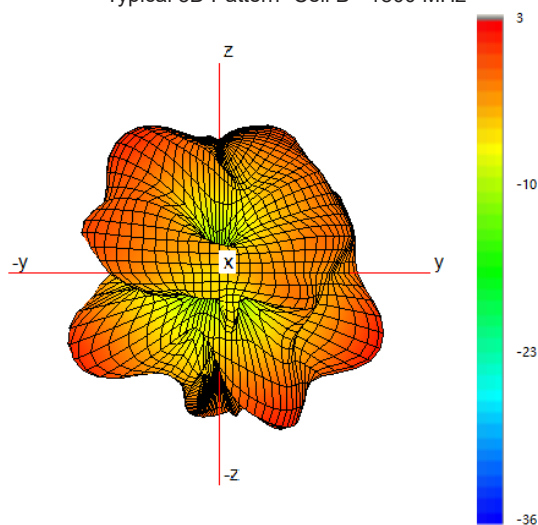
Typical 3D Pattern- Cell B - 1475 MHz



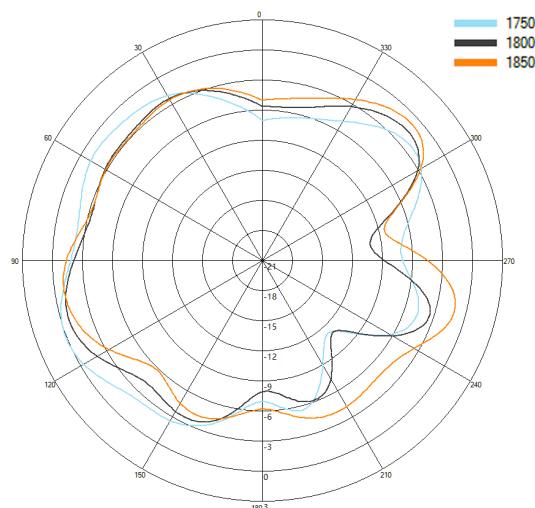
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



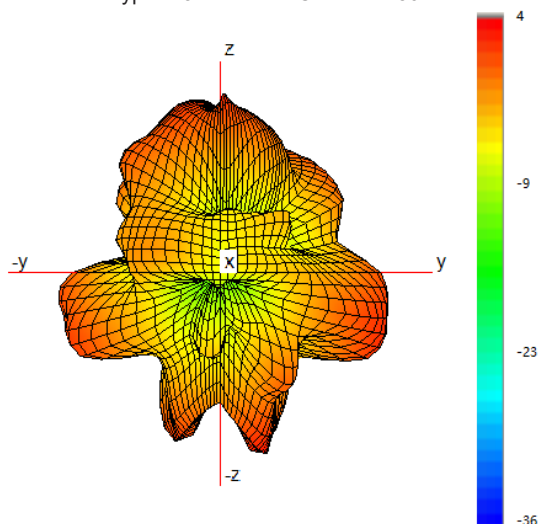
Typical 3D Pattern- Cell B - 1800 MHz



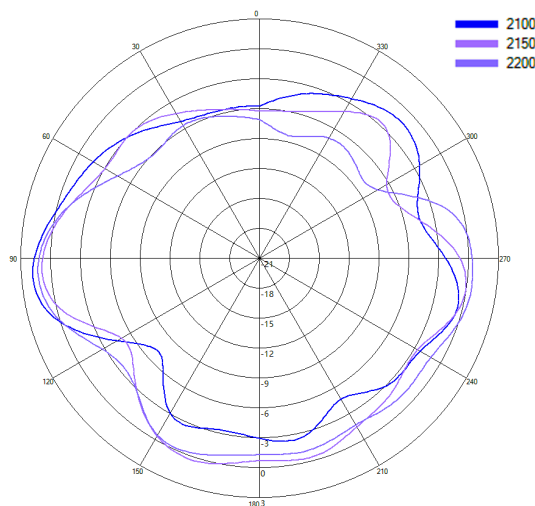
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



Typical H Plane- Cell B- Patterns- 2100-2200 MHz



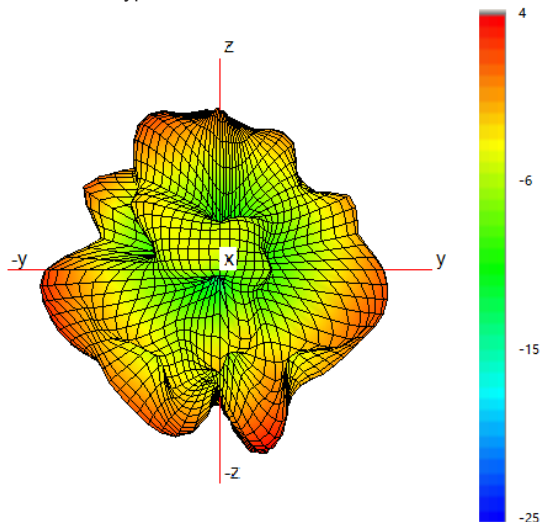
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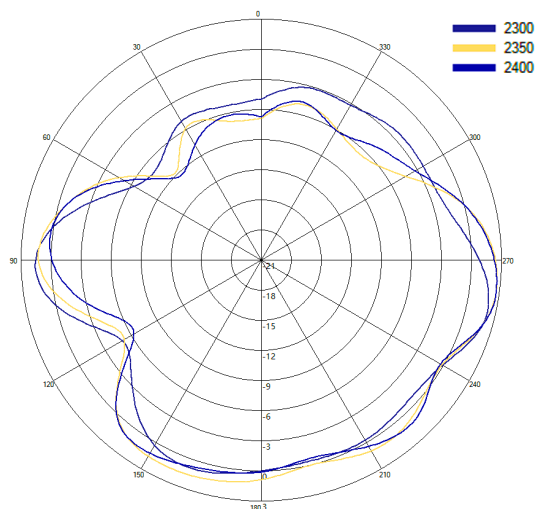
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3D Pattern Data in
Free Space Cell B

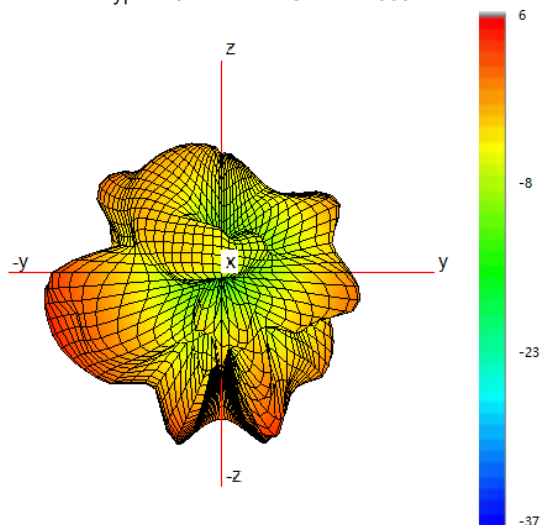
Typical 3D Pattern- Cell B - 2350 MHz



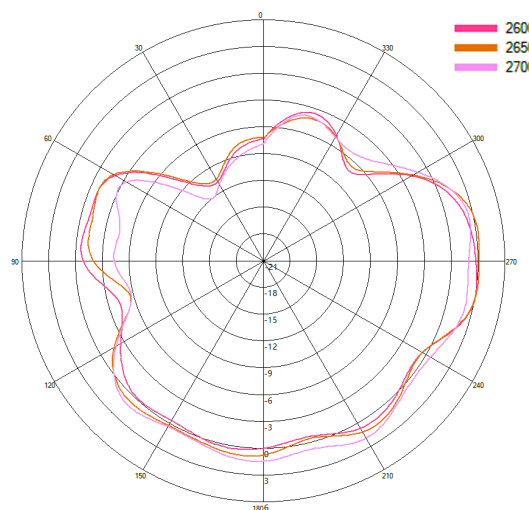
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



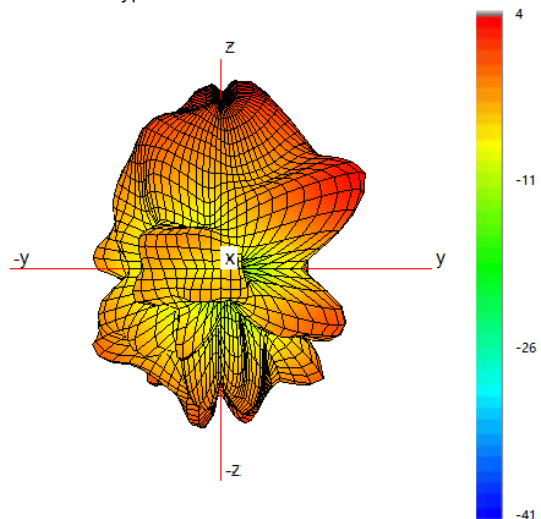
Typical 3D Pattern- Cell B - 2650 MHz



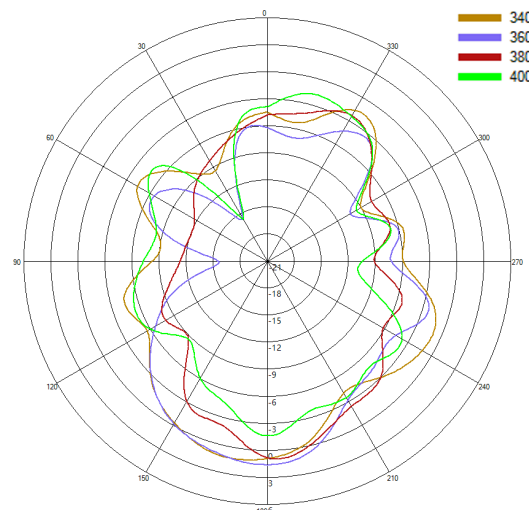
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



Typical H Plane- Cell B - Patterns- 3400-4000 MHz



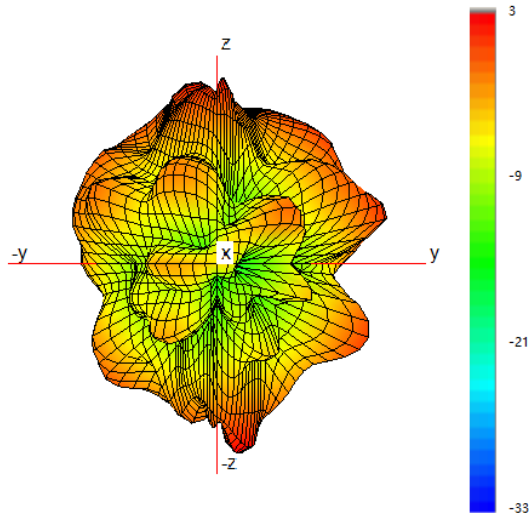
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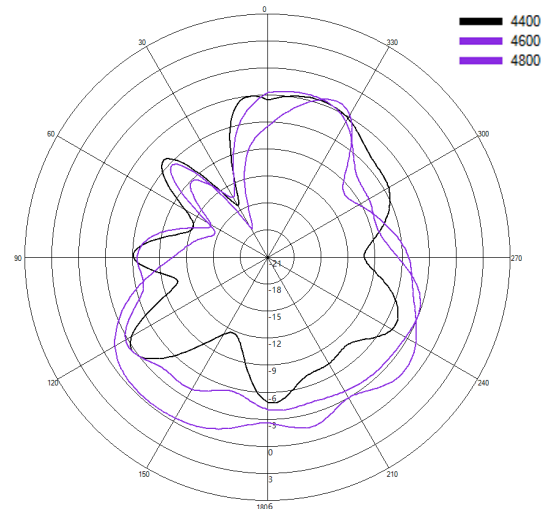
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3D Pattern Data in
Free Space Cell B

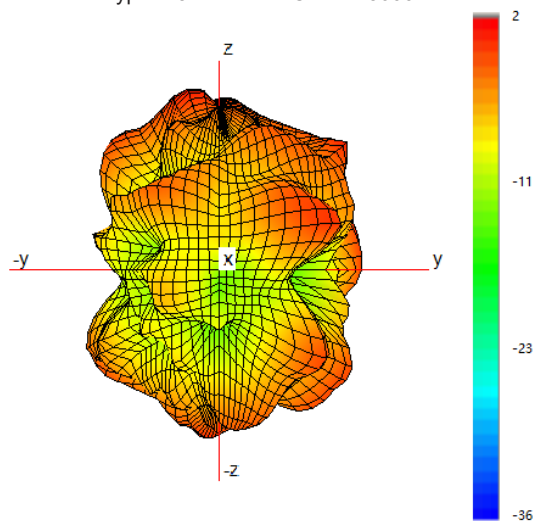
Typical 3D Pattern- Cell B - 4700 MHz



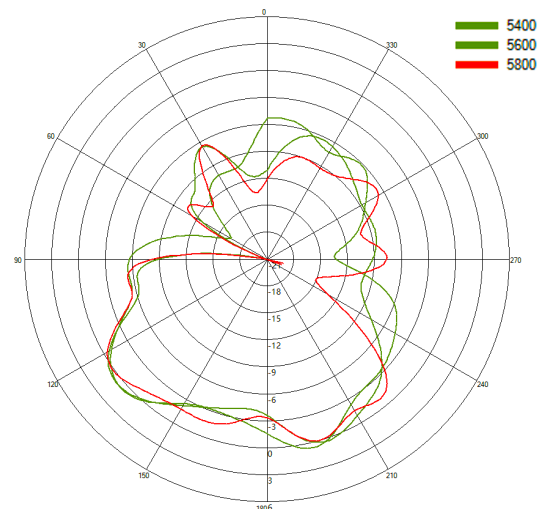
Typical H Plane- Cell B- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell B - 5600 MHz



Typical H Plane- Cell B - Patterns- 5400-5800 MHz



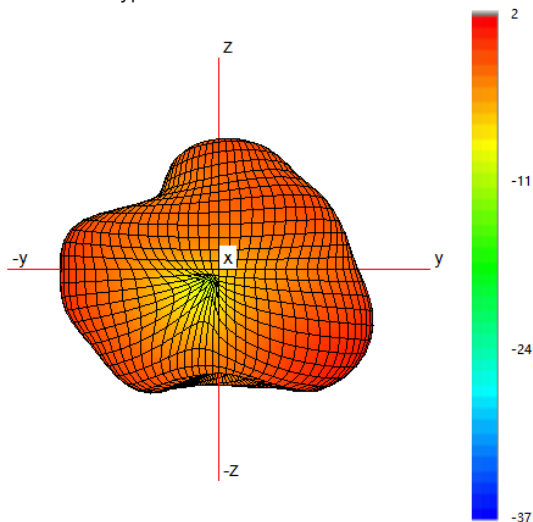
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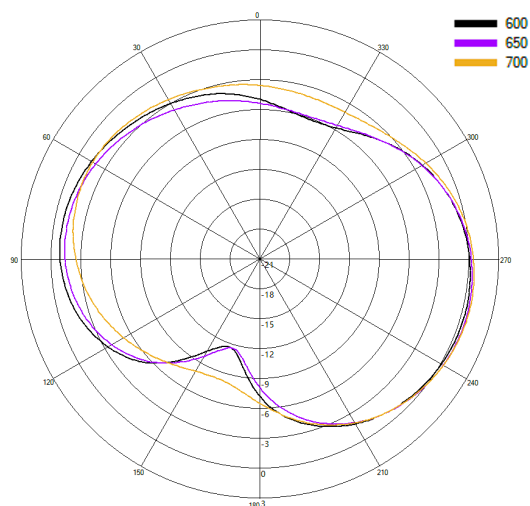
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3D Pattern Data in
Free Space Cell C

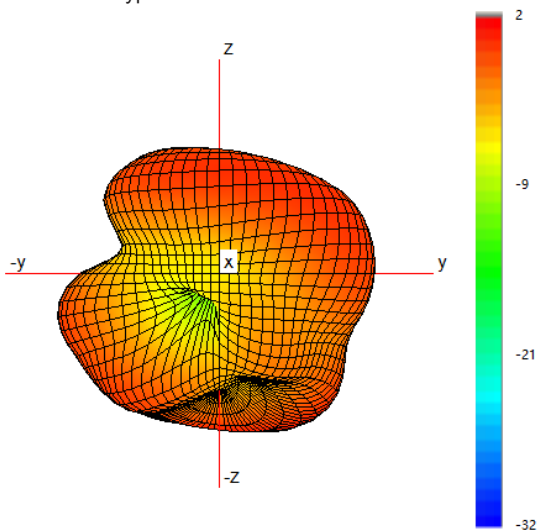
Typical 3D Pattern- Cell C - 650 MHz



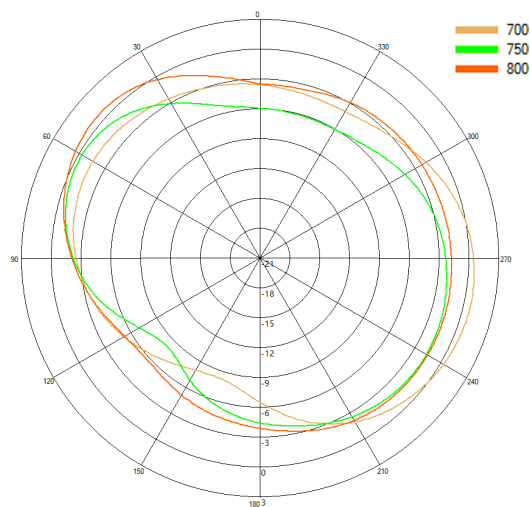
Typical H Plane- Cell C - Patterns- 600-700MHz



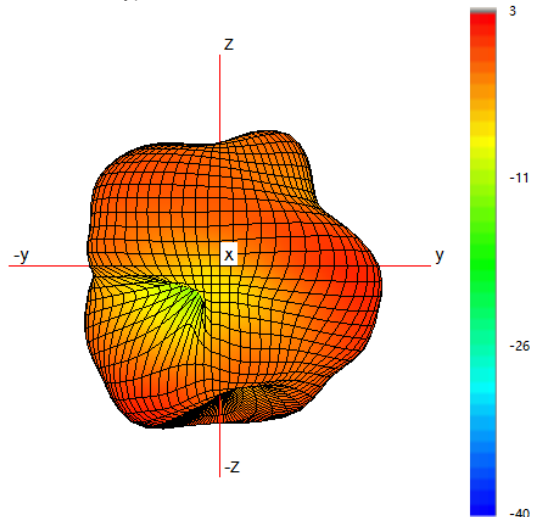
Typical 3D Pattern- Cell C - 750 MHz



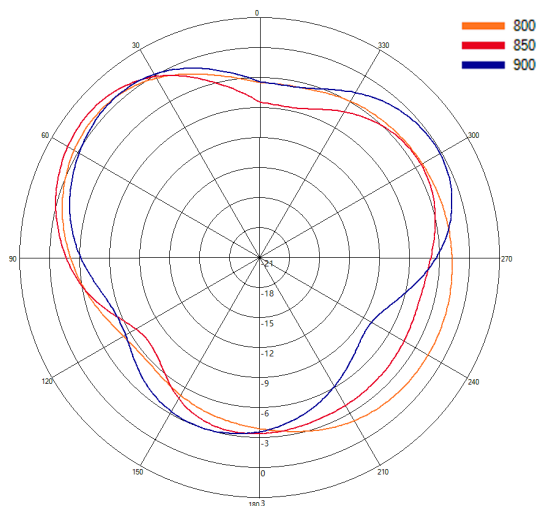
Typical H Plane- Cell C - Patterns- 700-800MHz



Typical 3D Pattern- Cell C - 850 MHz



Typical H Plane- Cell C - Patterns- 800-900MHz



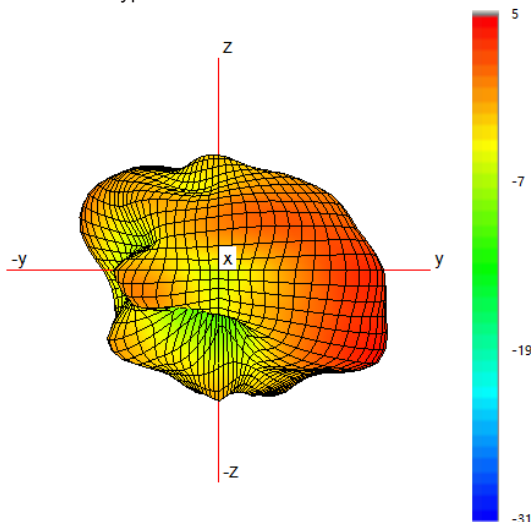
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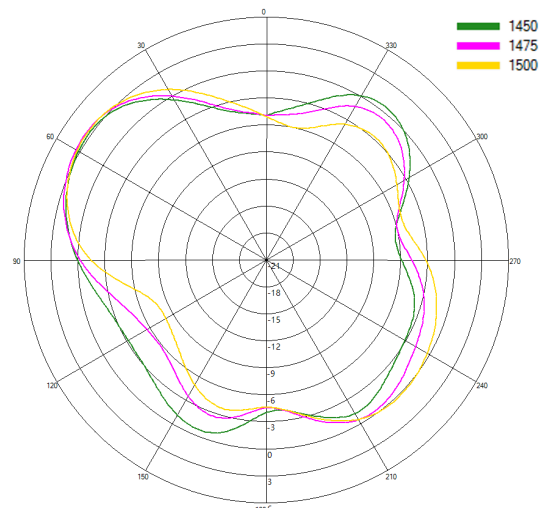
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3D Pattern Data in
Free Space Cell C

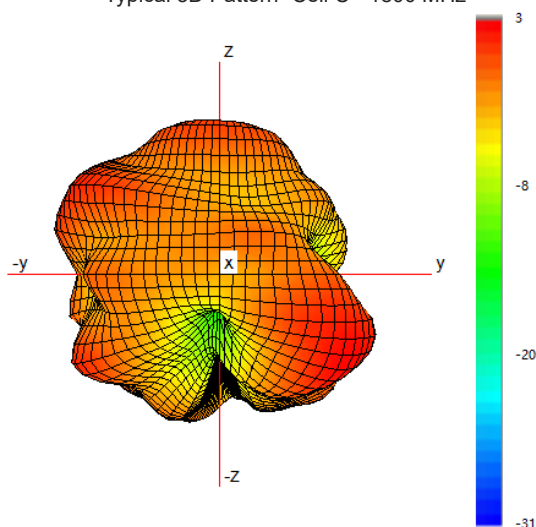
Typical 3D Pattern- Cell C - 1475 MHz



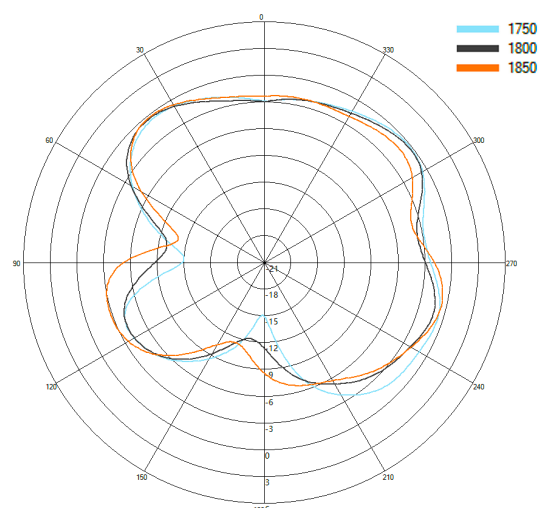
Typical H Plane- Cell C- Patterns- 1450-1500 MHz



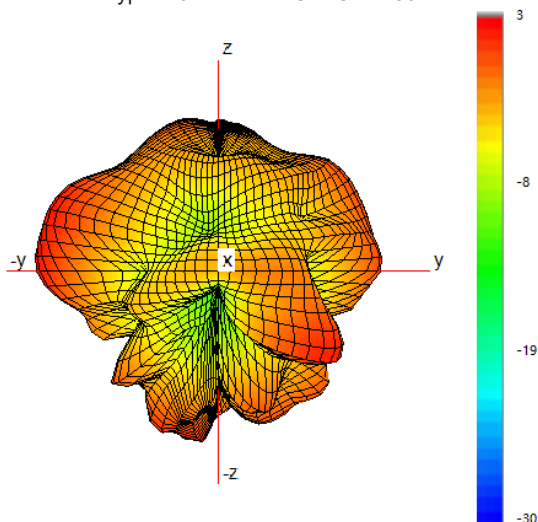
Typical 3D Pattern- Cell C - 1800 MHz



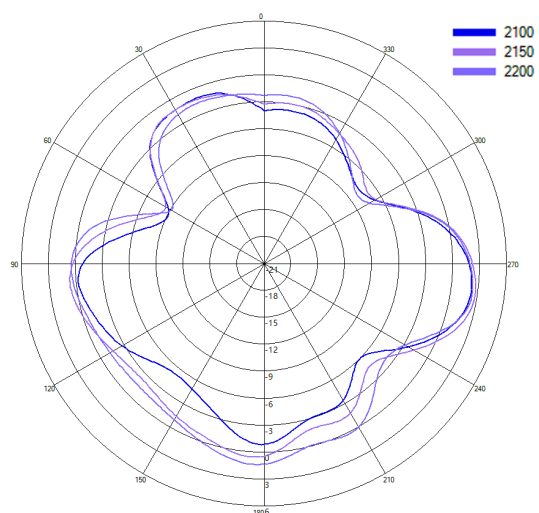
Typical H Plane- Cell C- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell C - 2150 MHz



Typical H Plane- Cell C- Patterns- 2100-2200 MHz



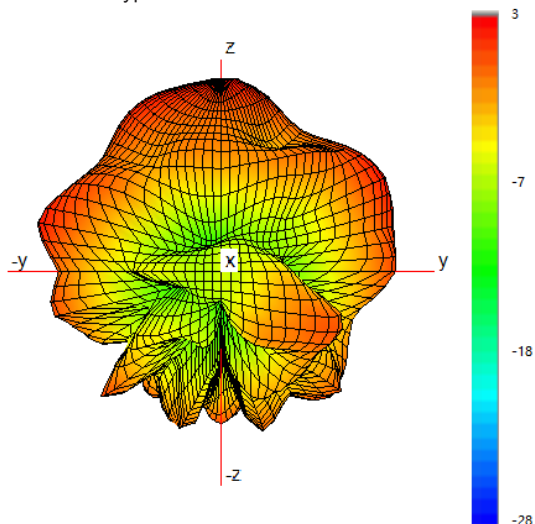
4G/5G Desk Mount 4x4 MiMo Antenna

DMM4-6-60[-VAR]

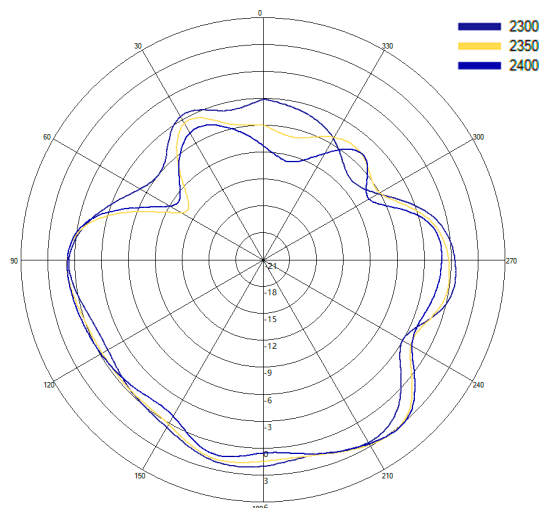
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3D Pattern Data in
Free Space Cell C

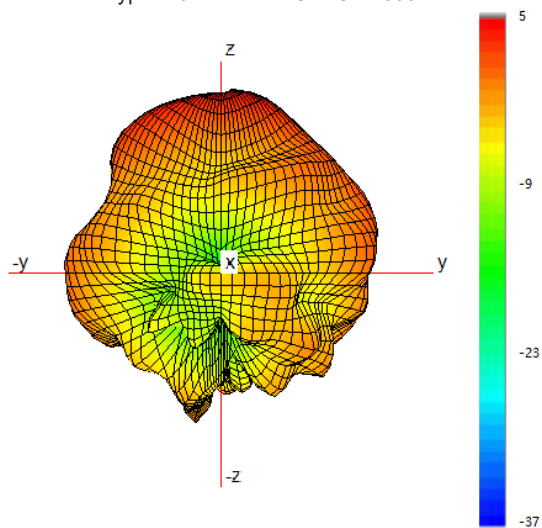
Typical 3D Pattern- Cell C - 2350 MHz



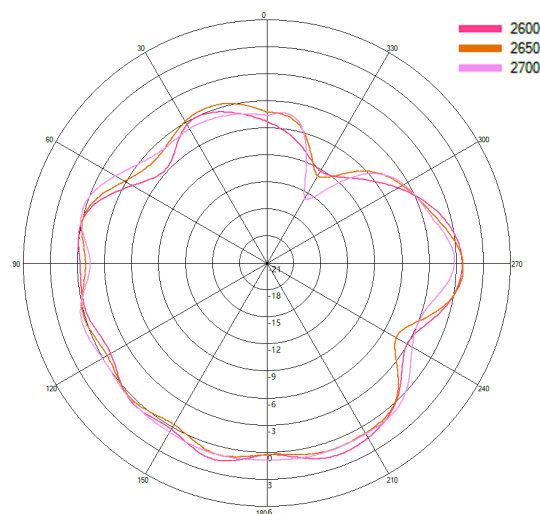
Typical H Plane- Cell C - Patterns- 2300-2400 MHz



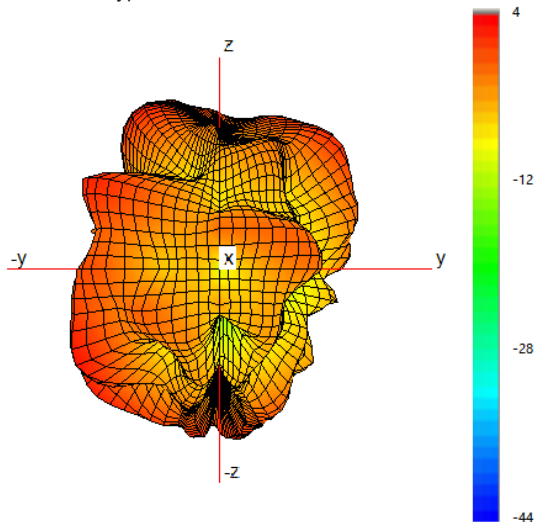
Typical 3D Pattern- Cell C - 2650 MHz



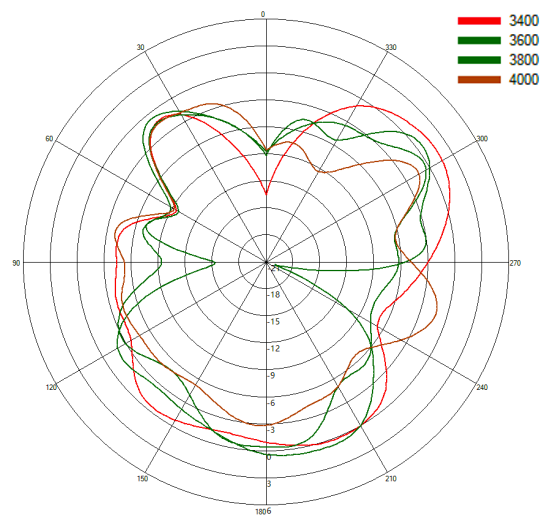
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell C - 3600 MHz



Typical H Plane- Cell C - Patterns- 3400-4000 MHz



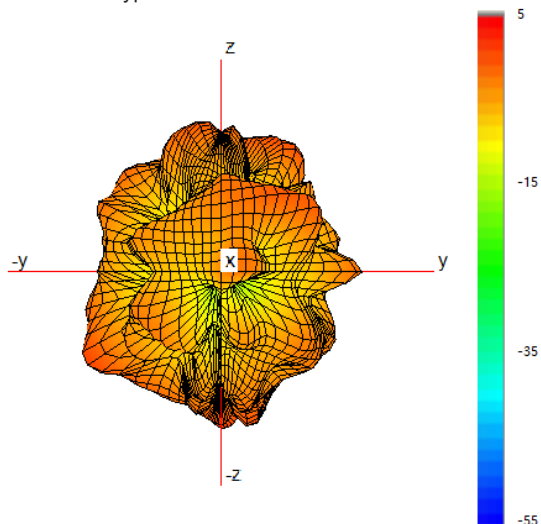
4G/5G Desk Mount 4x4 MiMo Antenna

DMM4-6-60[-VAR]

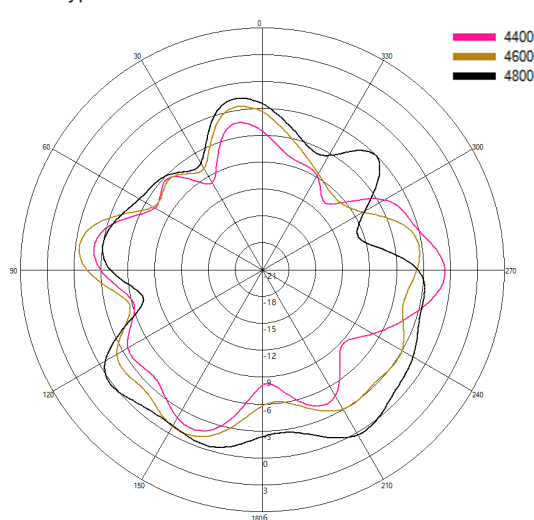
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3D Pattern Data in
Free Space Cell C

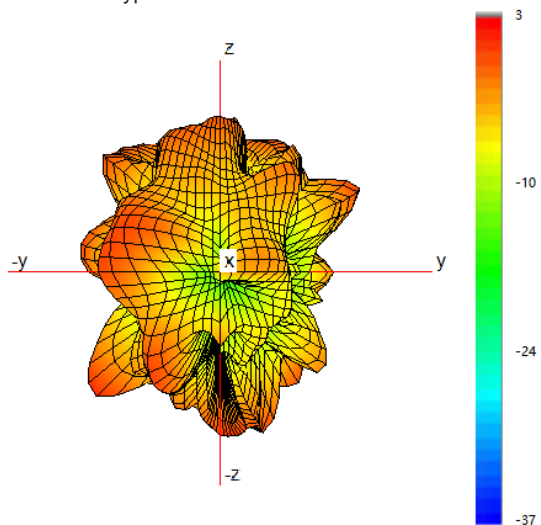
Typical 3D Pattern- Cell C - 4700 MHz



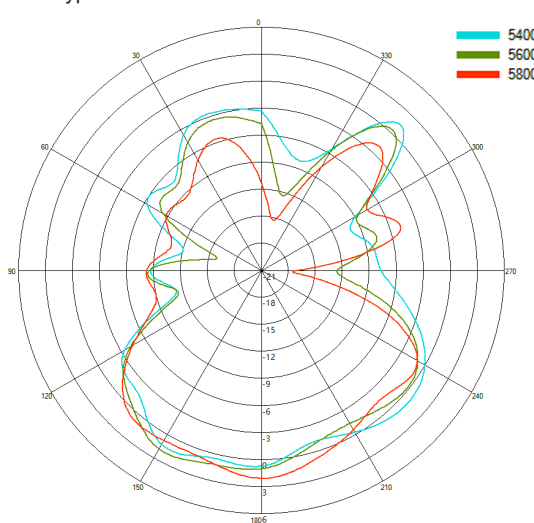
Typical H Plane- Cell C- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell C - 5600 MHz



Typical H Plane- Cell C - Patterns- 5400-5800 MHz



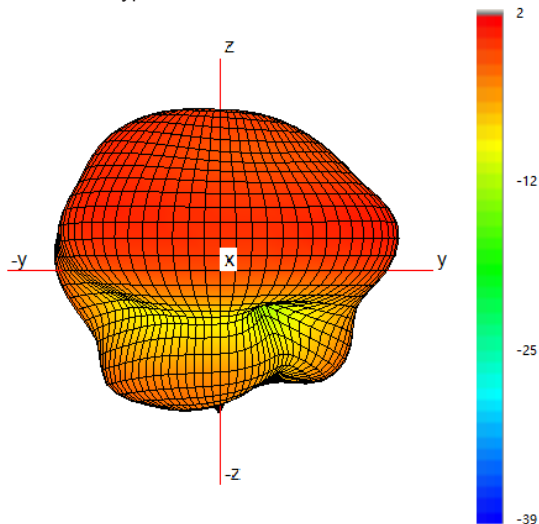
4G/5G Desk Mount 4x4 MiMo Antenna

DMM4-6-60[-VAR]

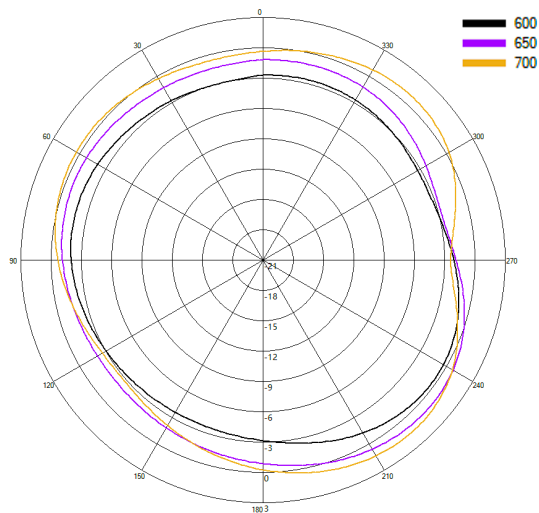
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3D Pattern Data in
Free Space Cell D

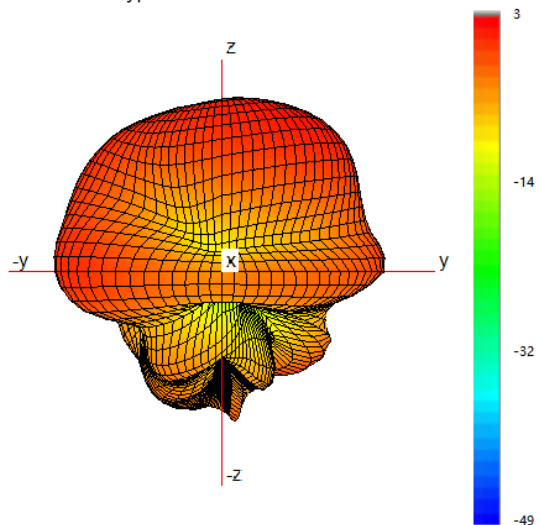
Typical 3D Pattern- Cell D - 650 MHz



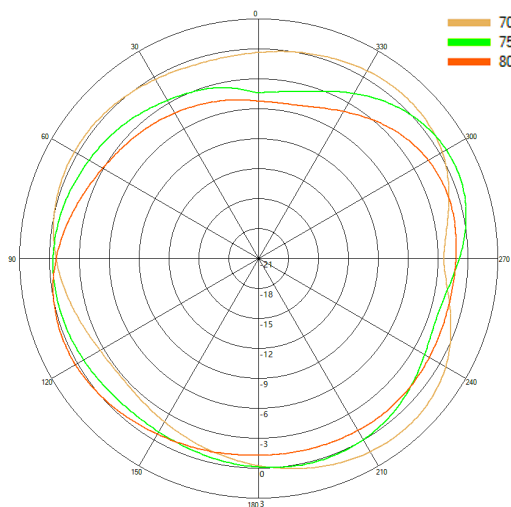
Typical H Plane- Cell D - Patterns- 600-700MHz



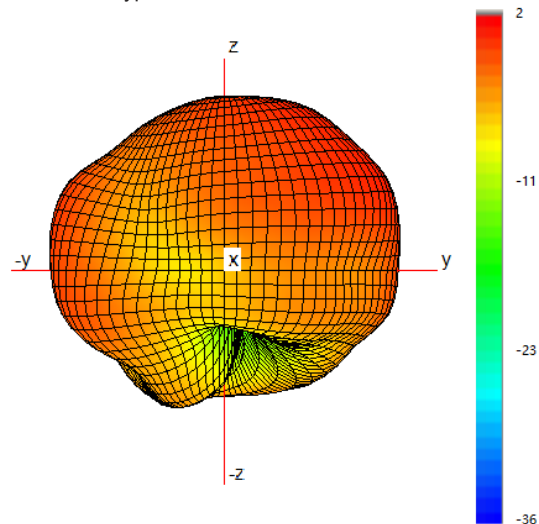
Typical 3D Pattern- Cell D - 750 MHz



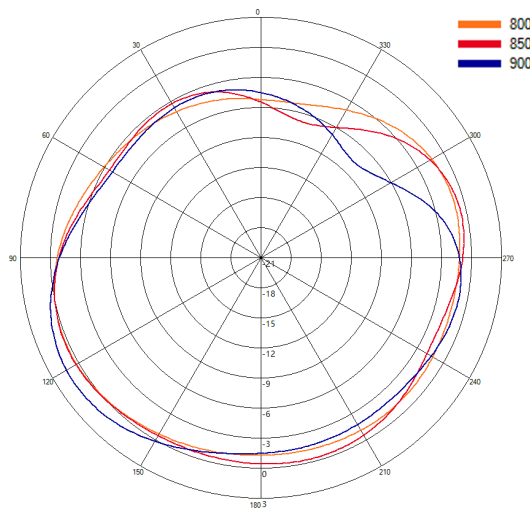
Typical H Plane- Cell D - Patterns- 700-800MHz



Typical 3D Pattern- Cell D - 850 MHz



Typical H Plane- Cell D- Patterns- 800-900MHz



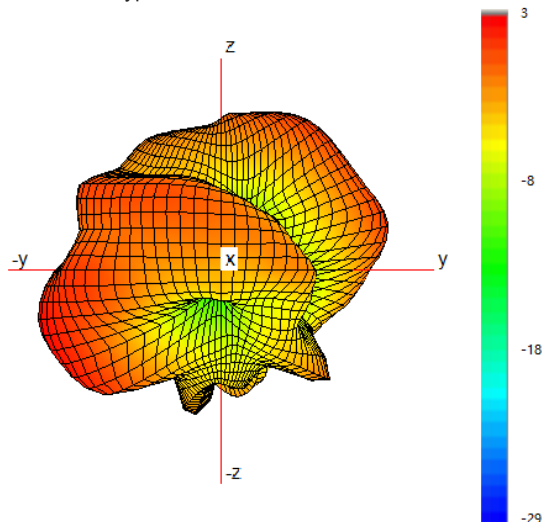
4G/5G Desk Mount 4x4 MiMo Antenna

DMM4-6-60[-VAR]

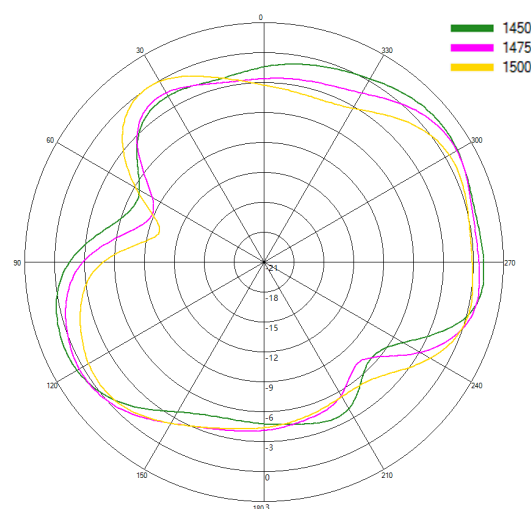
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3D Pattern Data in
Free Space Cell D

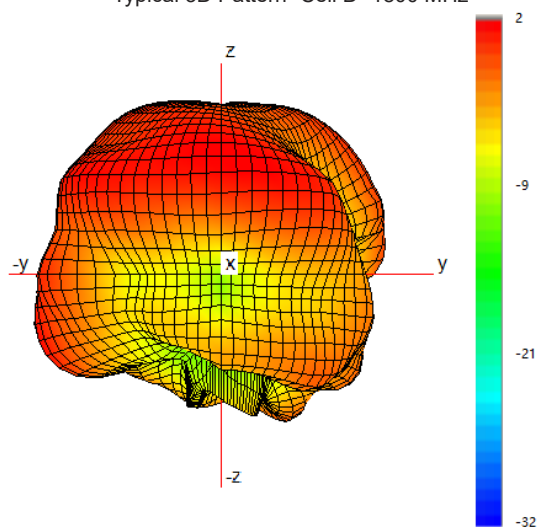
Typical 3D Pattern- Cell D - 1475 MHz



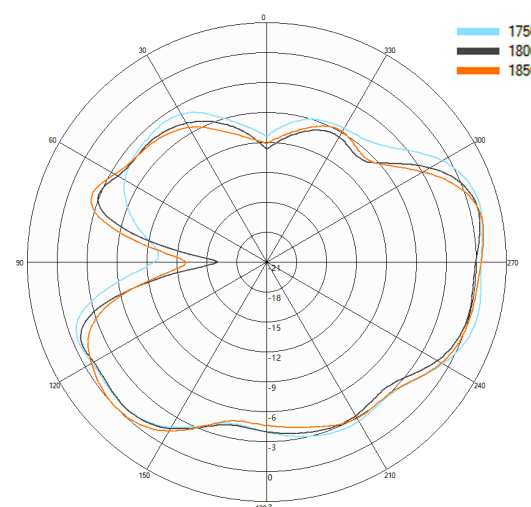
Typical H Plane- Cell D- Patterns- 1450-1500 MHz



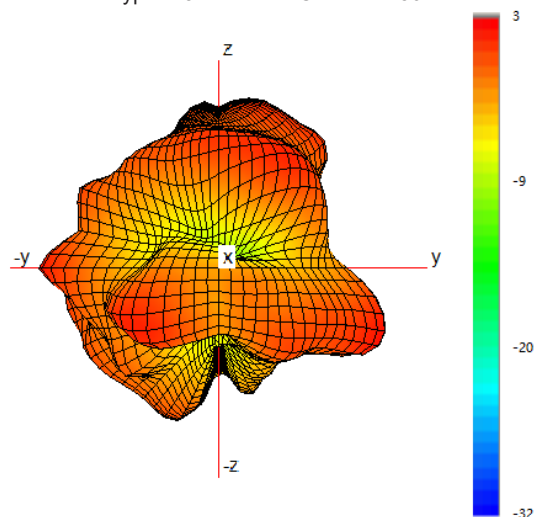
Typical 3D Pattern- Cell D- 1800 MHz



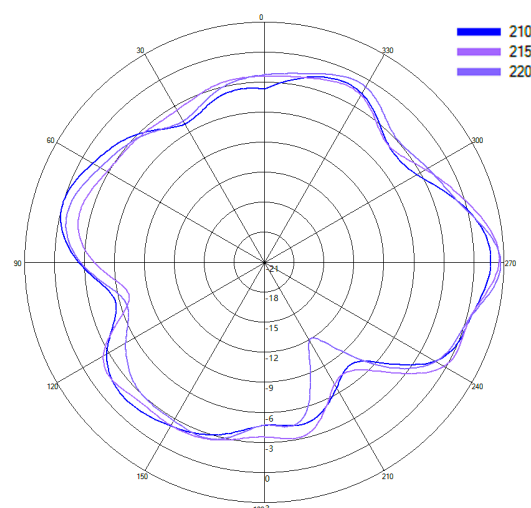
Typical H Plane- Cell D- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell D - 2150 MHz



Typical H Plane- Cell D- Patterns- 2100-2200 MHz



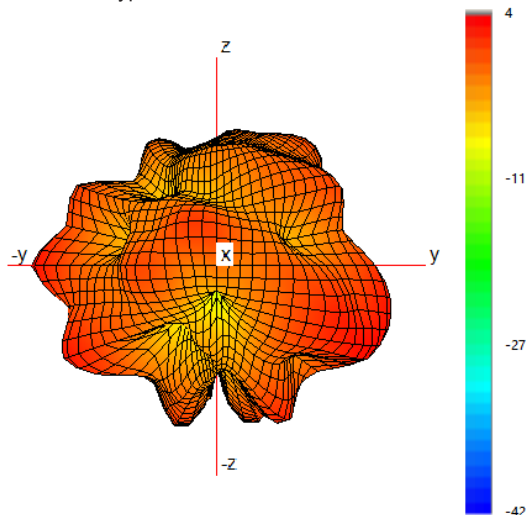
4G/5G Desk Mount 4x4 MiMo Antenna

DMM4-6-60[-VAR]

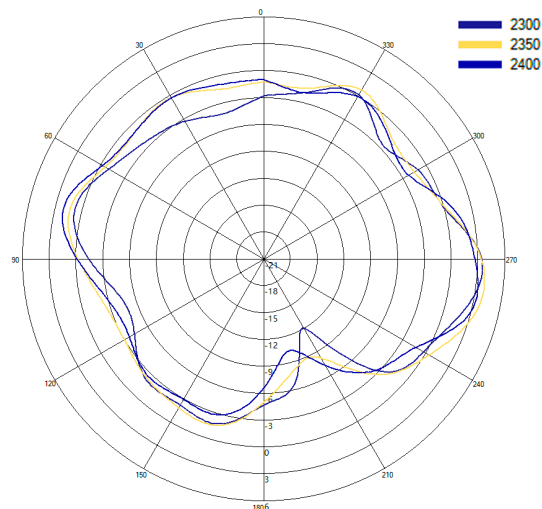
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3D Pattern Data in
Free Space Cell D

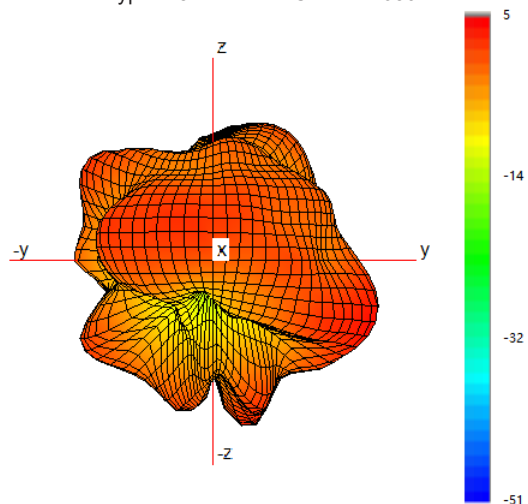
Typical 3D Pattern- Cell D - 2350 MHz



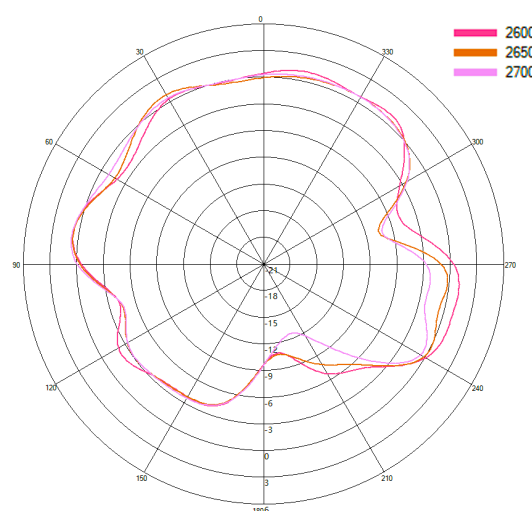
Typical H Plane- Cell D - Patterns- 2300-2400 MHz



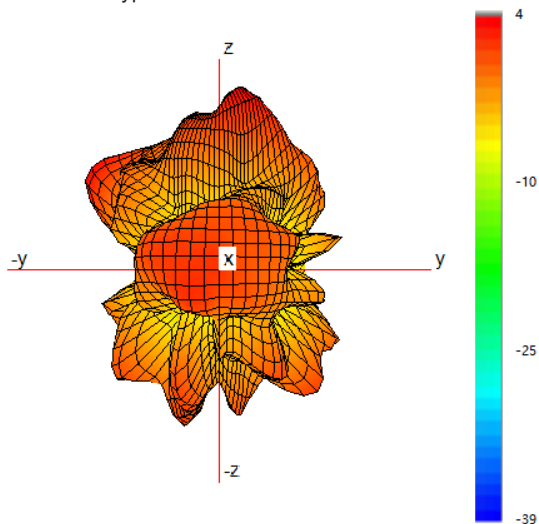
Typical 3D Pattern- Cell D - 2650 MHz



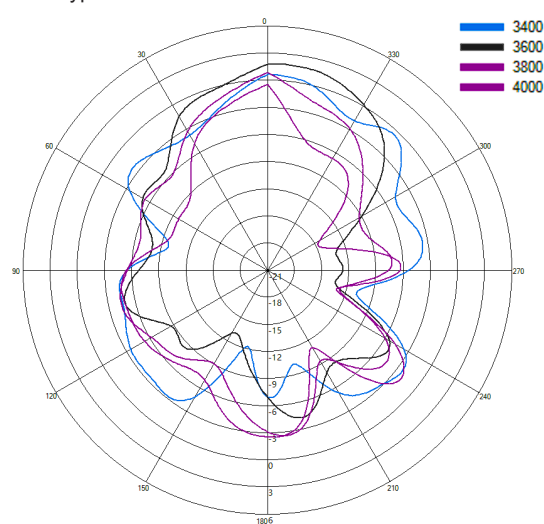
Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell D - 3600 MHz



Typical H Plane- Cell D - Patterns- 3400-4000 MHz



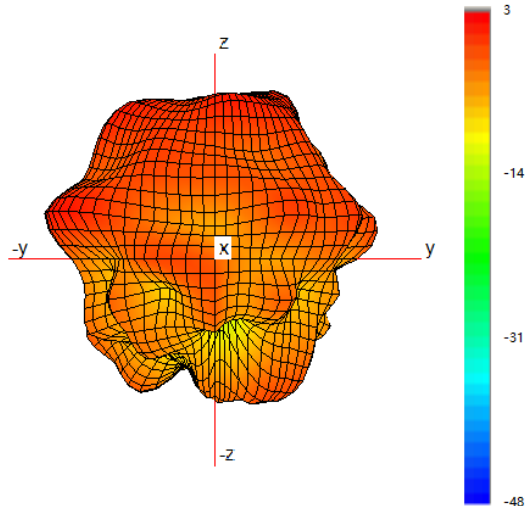
4G/5G Desk Mount 4x4 MiMo Antenna

DMM4-6-60[-VAR]

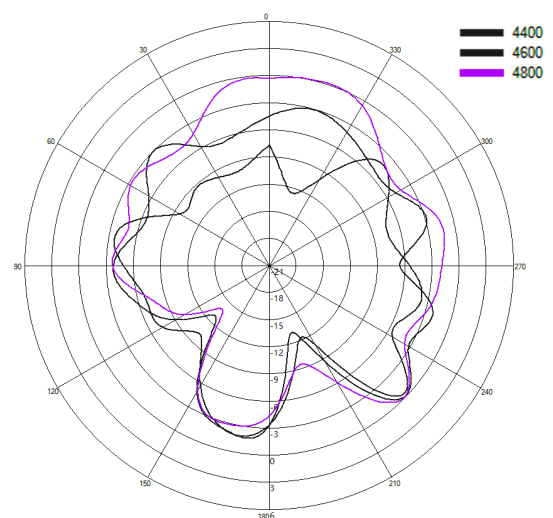
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell D

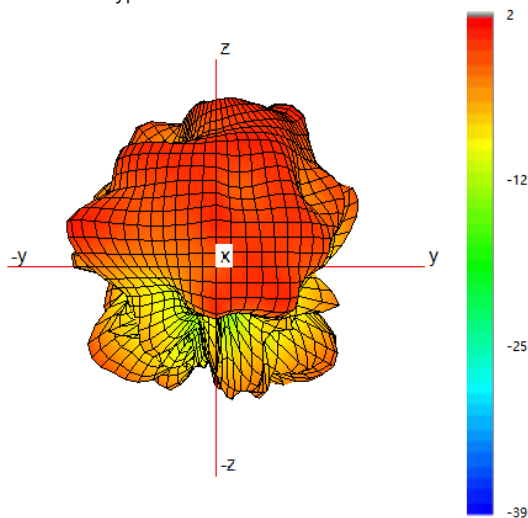
Typical 3D Pattern- Cell D - 4700 MHz



Typical H Plane- Cell D- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell D - 5600 MHz



Typical H Plane- Cell D - Patterns- 5400-5800 MHz

