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WMM4-7-49-[VAR]



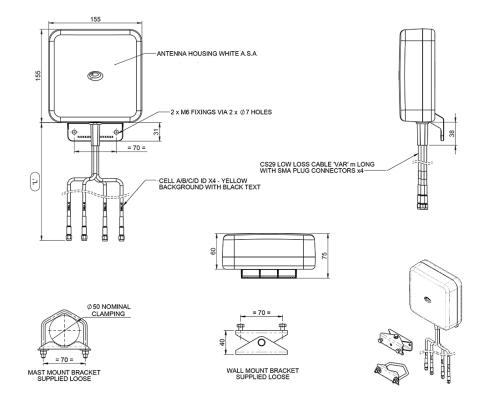
- 4x4 MiMo 4G/5G 698-960/1710-4900MHz
- Wall or mast mount
- Integrated ultra-low loss cables

The WMM4-7-49 antenna provides 4x4 MiMo solution for global 4G/5G networks from 698-960/1710-4900MHz. Incorporating four separately fed, ultra wideband elements within a rugged IP65 rated compact housing, the WMM4-7-49 is suitable for a wide range of 4G Cat 18/20 and 5G fixed site and failover applications.

The supplied mounting bracket enables simple wall mounting or mast mounting using the supplied clamp. The omni-directional radiation pattern allows easy placement of the antenna without requiring any directional alignment.

The antenna has integrated ultra-low loss, double shielded CS29 cable which eliminates exposed connection points and simplifies cable management for quick and easy installation. Various connector types and configurations are available to suit different installation requirements and user device.

Technical Drawing WMM4-7-49-5SP Shown





wmm4-7-49-[VAR]

					Product Data			
Part No.								
		WMM4-7-49-05NJ	WMM4-7-49-5SP	WMM4-7-49-5FKDJ	WMM4-7-49-10SF			
Electrical Data								
Frequency Range	(MHz)	698-960 / 1710-4900						
Operational Band		2G/3G/4G/5G						
Typical VSWR*		<3:1						
Polarisation		+/-45 degrees						
Pattern		Omnidirectional						
Impedance		50Ω						
Max Input Power (W)	10						
Mechanical Data								
Dimensions (mm)	Length	155 (6.1")						
	Height Excl Brkt	155 (6.1")						
	Depth	75 (2.95")						
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)						
Radome Material		ASA						
Material Approvals		Radome ASA Material - UL 746C F1, UL 94-HB						
Colour		White						
Ingress Protection		IP65						
Mounting Data								
Fixing			Wall / M					
Max Mast / Rail Dia	ameter (mm)	20-50mm / (0.78 - 1.96")						
Cable Data								
4G/5G Cables	Туре							
	Diameter (mm)		5 (0.19")					
	Length (m)	0.5 (20")	5 (16' 4")	5 (16' 4")	10 (32')			
	Termination	N Socket (f)	SMA Plug (m)	FAKRA D Jack	SMA Plug (m)			

^{*} Typical VSWR and isolation stated as measured with 0.5m (1.5') of cable in free space

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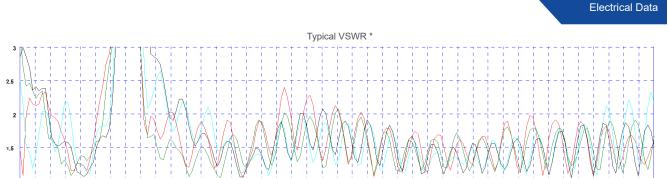
WMM4-7-49-[VAR]

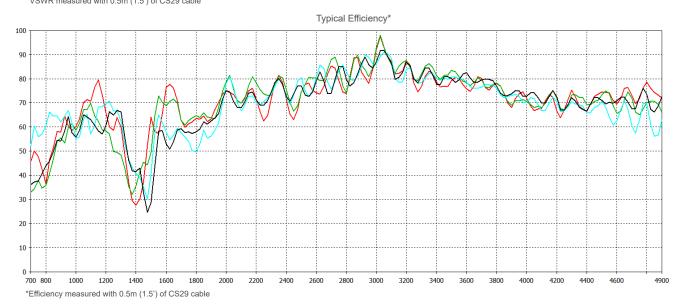
Electrical Data

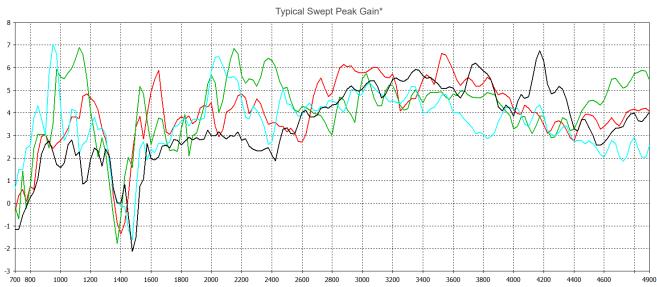
Measurement Conditions	4G/5G Antennas					
WMM4-7-49-05NJ measured in free space with 0.5m (20") CS29 pigtails	Frequency Range (MHz)		Antenna Element	Peak Gain (dBi)	Efficiency (%)	
	699-798	12,13,14,17,28	Cell A	0.7	45	
			Cell B	1.4	35	
			Cell C	2.6	57	
			Cell D	0.3	39	
	807-862	5,19,20,26,27	Cell A	2.9	48	
COUNTRY DESIGNATION OF THE PROPERTY OF THE PRO			Cell B	3.1	44	
<u> </u>			Cell C	4.3	64	
			Cell D	2.2	48	
	880-960	8	Cell A	3.1	60	
		8	Cell B	5.9	57	
			Cell C	7.0	64	
			Cell D	2.8	58	
	1427-1518	11,21,74,75,76	Cell A	3.8	48	
	1427-1518	11,21,74,75,70	Cell B	5.2	49	
			Cell C	2.4	40	
			Cell D	0.8	34	
	1710-1920	2,3,4,9,25,35, 39,66	Cell A	4.2	63	
			Cell B	3.9	64	
			Cell C	3.8	55	
			Cell D	2.9	60	
	1920-2170	1,23	Cell A	4.8	73	
	1920-2170	1,23	Cell B	6.9	74	
			Cell C	6.5	71	
			Cell D	3.2	71	
	2300-2400	30,40	Cell A	4.6	76	
			Cell B	6.4	78	
			Cell C	4.1	76	
			Cell D	2.5	77	
	2496-2690	7,38,41	Cell A	5.3	78	
	2490-2090	7,30,41	Cell B	5.1	80	
			Cell C	4.4	79	
			Cell D	4.1	76	
	3300-4200	22,42,43,48,77, 78,79	Cell A	6.6	75	
			Cell B	5.0	76	
			Cell C	5.2	76	
			Cell D	6.8	77	
	4400 5000	79	Cell A	6.7	72	
	4400-5000		Cell B	7.0	69	
			Cell C	7.2	65	
			Cell D	7.7	70	



WMM4-7-49-[VAR]







^{*} Swept peak gain measured with 0.5m (1.5') of CS29 cable

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WMM4-7-49-[VAR]

3D Patterns -Cell A Typical 3D Pattern- Cell A - 750 MHz Typical H Plane- Cell A - Patterns- 700-800MHz 750 800 -у Typical H Plane- Cell A - Patterns- 800-900MHz Typical 3D Pattern- Cell A - 850 MHz 800 850 900 Typical 3D Pattern- Cell A - 1475 MHz Typical H Plane- Cell A- Patterns- 1450-1500 MHz 1450 1475 1500 -10 -22

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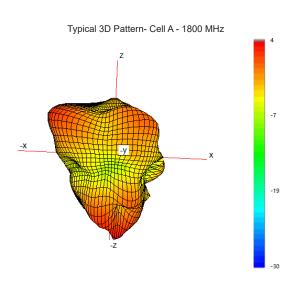
WMM4-7-49-[VAR] 02/06/2023 V3

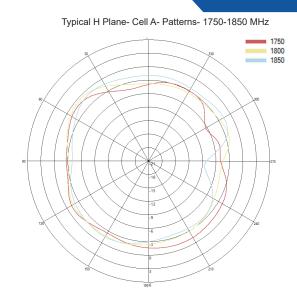
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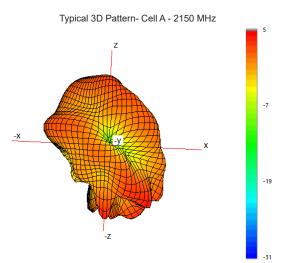
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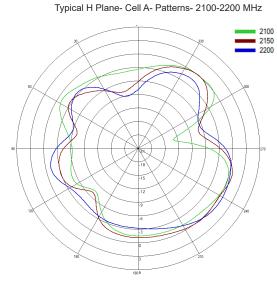
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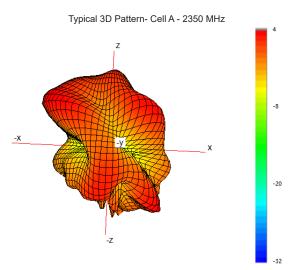
3D Patterns Cell A

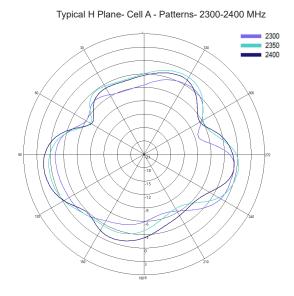








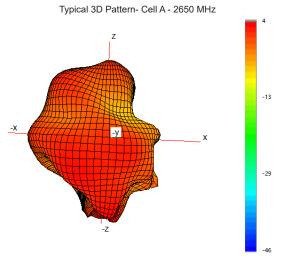


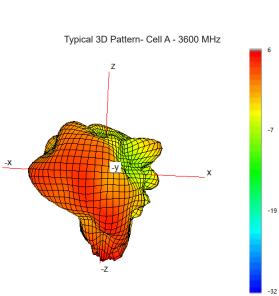


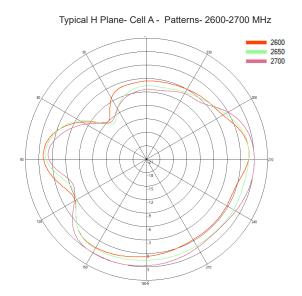
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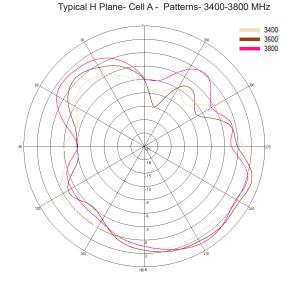
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3D Patterns -Cell A





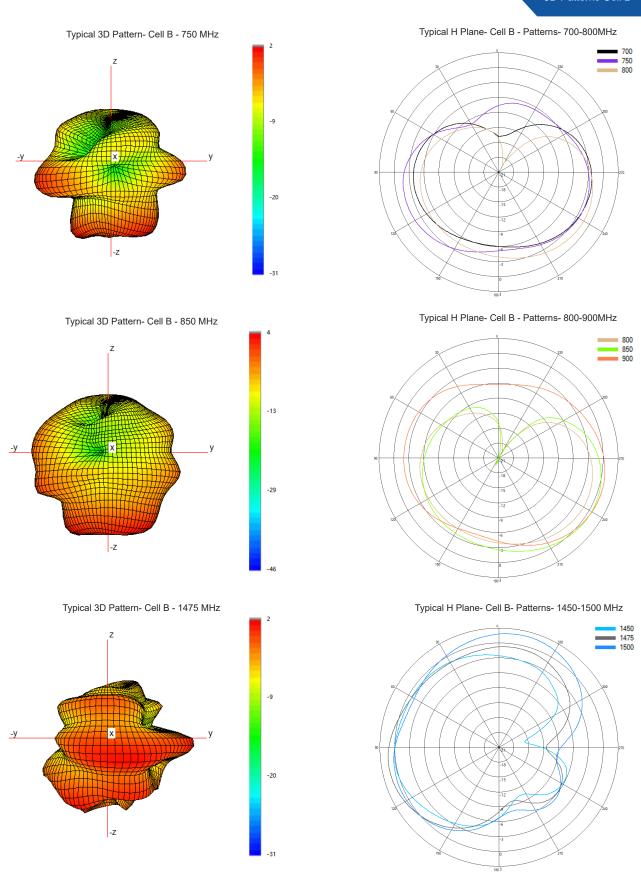




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WMM4-7-49-[VAR]

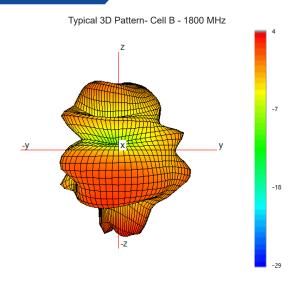
3D Patterns Cell B



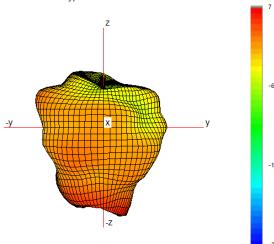
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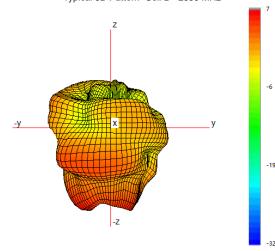
3D Patterns -Cell B



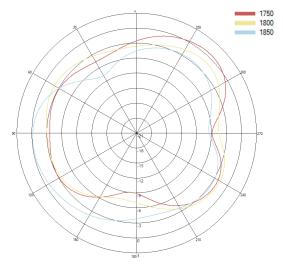




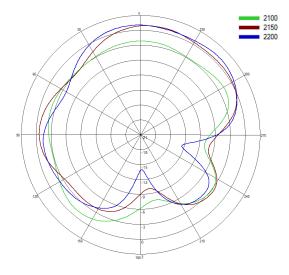
Typical 3D Pattern- Cell B - 2350 MHz



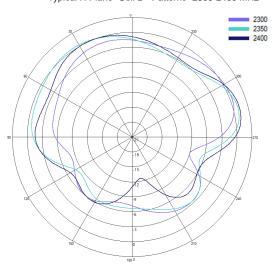
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



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



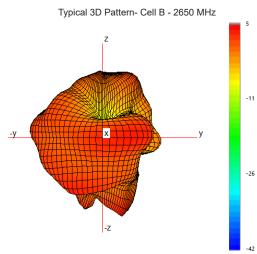
Typical H Plane- Cell B - Patterns- 2300-2400 MHz

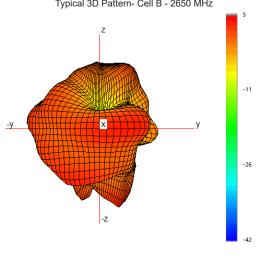


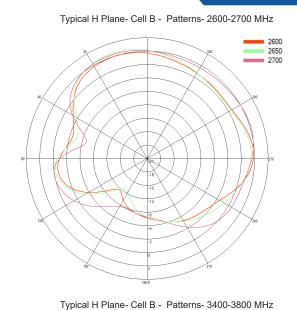


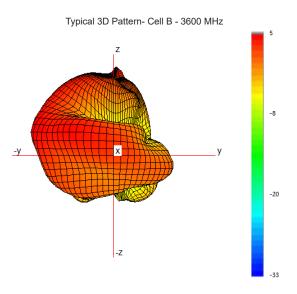
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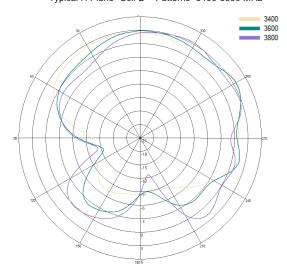
3D Patterns Cell B







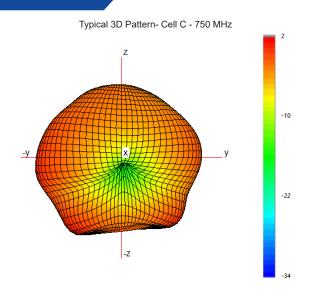


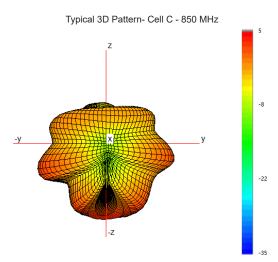


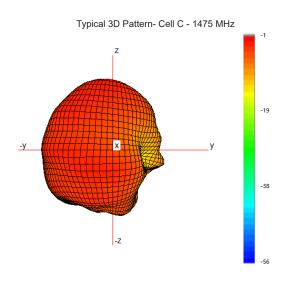
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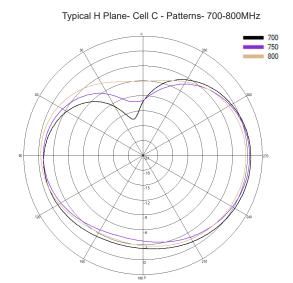
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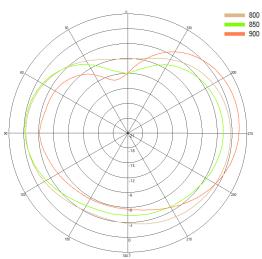
3D Patterns -Cell C



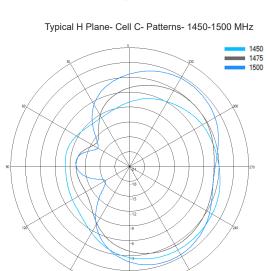








Typical H Plane- Cell C - Patterns- 800-900MHz



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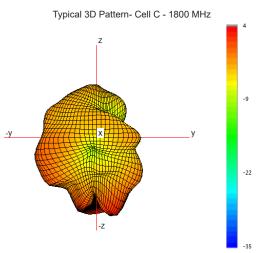
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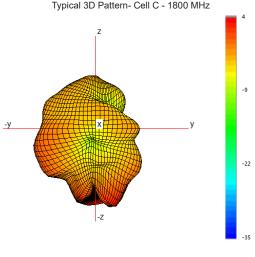
Typical H Plane- Cell C- Patterns- 1750-1850 MHz

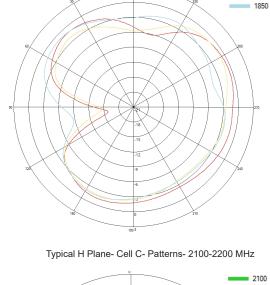
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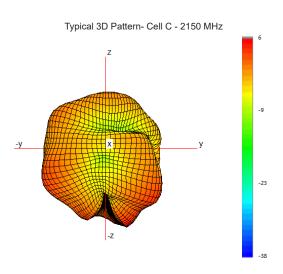
3D Patterns Cell C

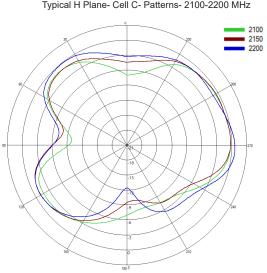
1750 1800

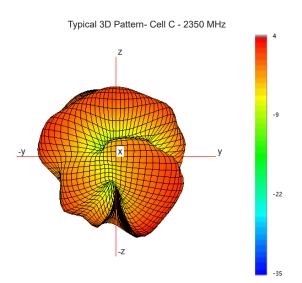


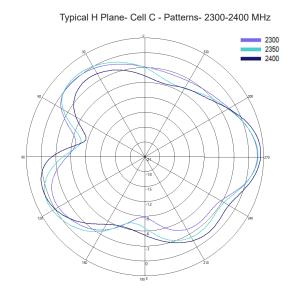








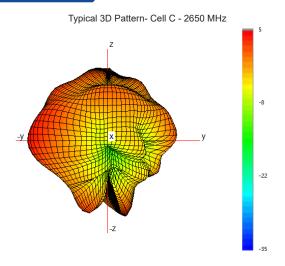


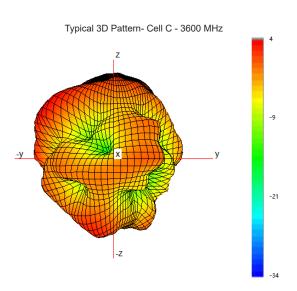


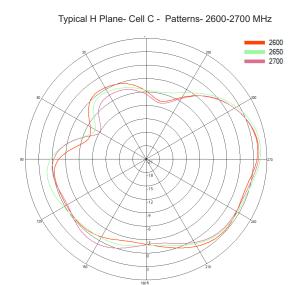
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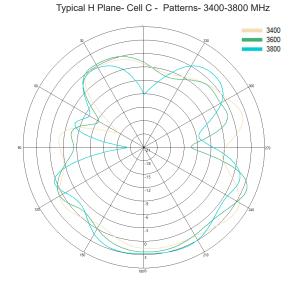
WMM4-7-49-[VAR]

3D Patterns -Cell C





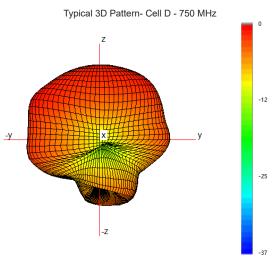


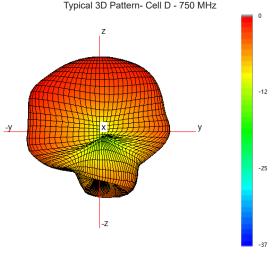


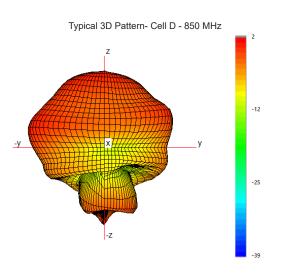
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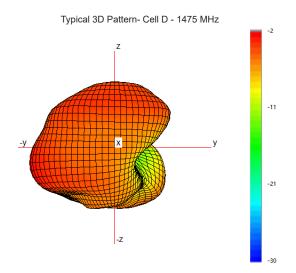
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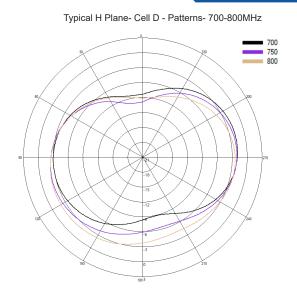
3D Patterns Cell D

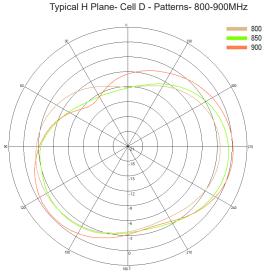


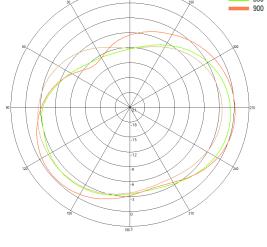


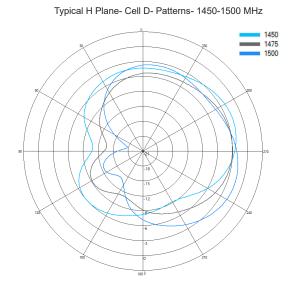








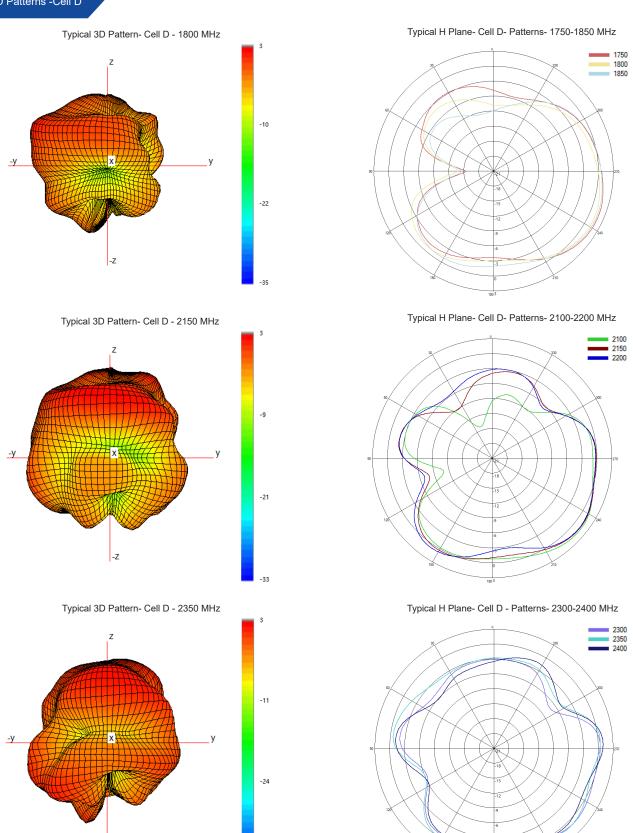




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3D Patterns -Cell D



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3D Patterns Cell D

