

4G/5G Low Profile Antenna

B4BE[W]-6-60-[X]

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- Cost effective 4G/5G antenna solution
- Wall, mast or cabinet/enclosure installation
- Integrated low loss coaxial cable
- Also available with white cover (B4BEW-6-60)

The B4BE[W]-6-60 antenna is a cost effective omni-directional broad-band antenna range for 4G and 5G devices. It covers 617-960/1427-6000MHz and is suitable for external or internal installation.

The mounting bracket enables simple wall/panel mounting using the supplied screws & wall plugs or mast mounting using a pipe clip or cable ties (not supplied).

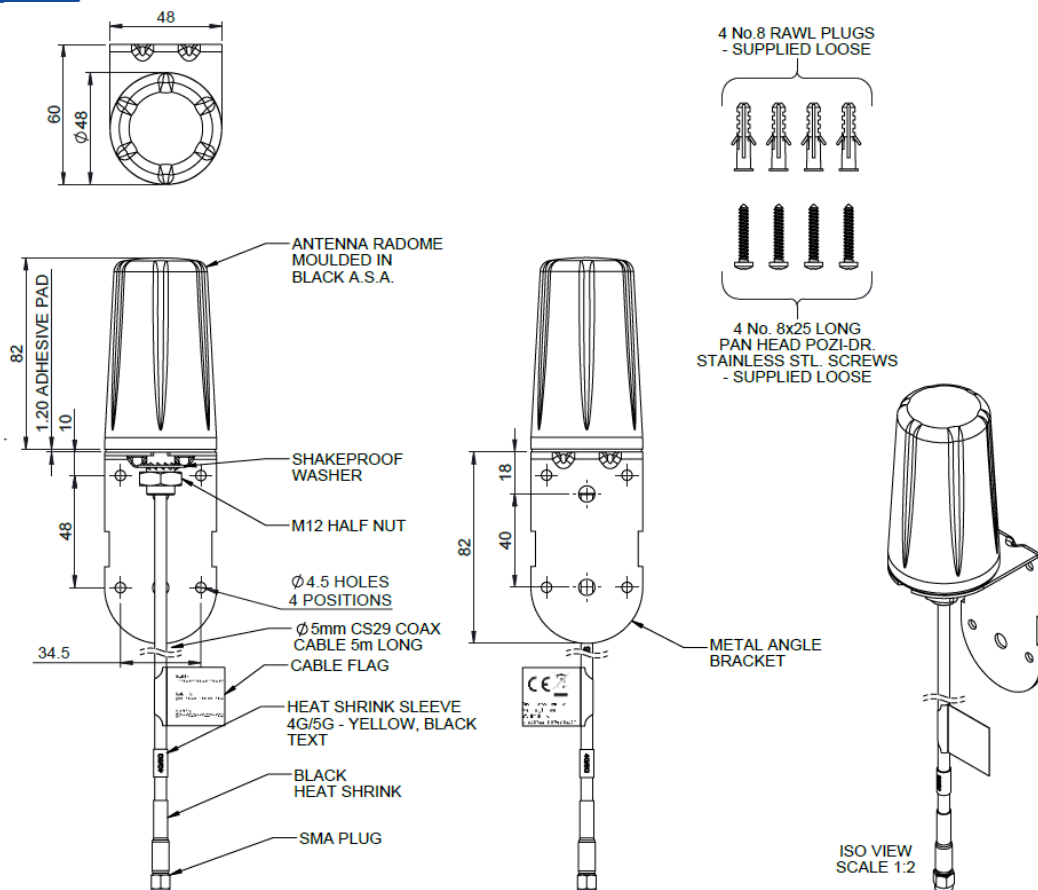
The omni-directional radiation pattern allows easy placement of the antenna in an elevated position, without requiring directional alignment.

The B4BE-6-60 antenna is supplied with integrated ultra-low loss CS29 (CS32 for B4BEW-6-60) coaxial cable, of various lengths, and a fitted SMA plug. Other connectors are available.

This antenna is an ideal solution for IoT use in industrial and domestic environments for cellular modems/routers and Machine to Machine (M2M) wireless connectivity applications.

Technical Drawing

B4BE-6-60-5SP Shown



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Product Data

Part No.					
		B4BE[W]-6-60-05SP	B4BE[W]-6-60-2SP	B4BE[W]-6-60-5SP	B4BE[W]-6-60-10SP
Electrical Data					
Frequency Range (MHz)		617-960 / 1427-6000			
Operational Band		4G / 5G			
Typical VSWR*		<3:1			
Peak Gain* (dBi)	617-960MHz	2.8			
	1427-2700MHz	3.6			
	3300-6000MHz	5.5			
Typical Efficiency	617-960MHz	72%			
	1427-2700MHz	71%			
	3300-6000MHz	70%			
Polarisation		Vertical			
Pattern		Omni-directional			
Impedance		50Ω			
Max Input Power (W)		30			
Mechanical Data					
Dimensions	Height	82mm (3.2") (excluding bracket)			
	Diameter	48mm (1.89")			
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)			
Material		ASA, aluminium, zinc plated steel			
Material Approvals		Radome UV Stable ASA Material - UL 746C F1, UL 94-HB			
Colour		Black (B4BE-6-60) or White (B4BEW-6-60)			
Ingress Protection		IP66			
Mounting Data					
Fixing		Panel mount or bracket mount			
Panel Mounting Hole Diameter		12mm (1/2")			
Bracket Screw Hole Diameter		4mm (0.16")			
Cable Data					
Type		CS29 / (CS32 for B4BEW-6-60)			
Diameter		5mm (0.2")			
Length	0.5m (1.5')	2m (6.6')	5m (16.4')	10m (32.5')	
Termination		SMA Plug (m)			

*VSWR, peak gain and efficiency measured in free space on bracket with 0.5m (1.6') of CS29 cable. Efficiency is average across stated bands.

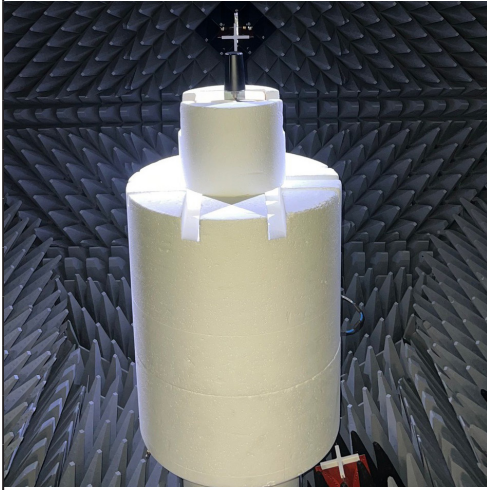
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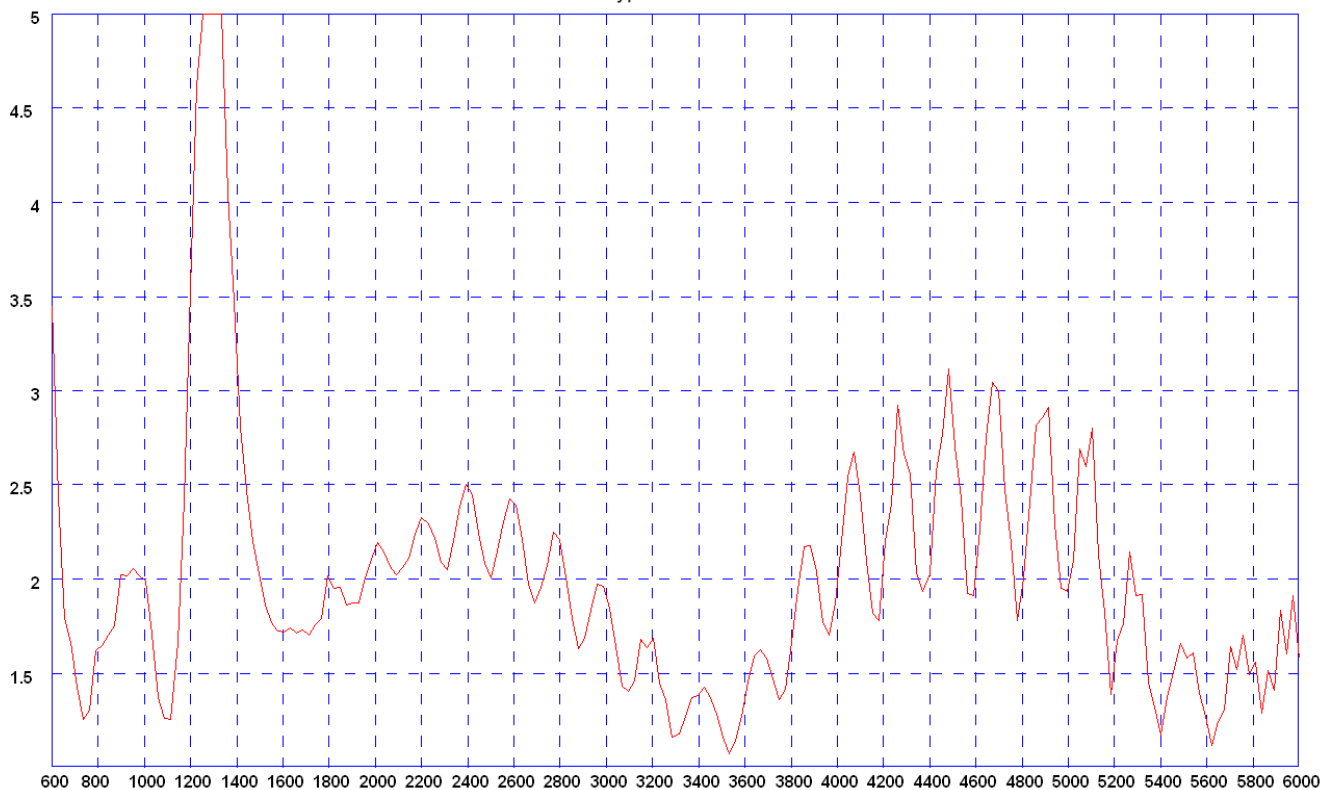
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Electrical Data Cell-
Free Space on bracket

Measurement Conditions	4G/5G Antenna			
	Frequency Range (MHz)	LTE/NR Bands	Peak Gain (dBi)	Efficiency (%)
B4BE-6-60 measured in free space on bracket with 0.5m (1.6') of CS29 cable	617-698	71, 105	2.0	75
	699-798	12,13, 14 17,28	2.4	77
	807- 862	5,19,20,26,27	2.4	71
	880-960	8	2.8	64
	1427-1518	11, 21, 74,75,76	3.6	72
	1710-1920	2,3,4,9,25,35,39,66	2.6	71
	1920-2170	1,23	2.6	71
	2300-2400	30,40	3.0	70
	2496-2690	7,38,41	3.4	72
	3300-4200	22,42,43,48,77,78	5.5	78
	4400-5000	79	4.9	62



Typical VSWR*



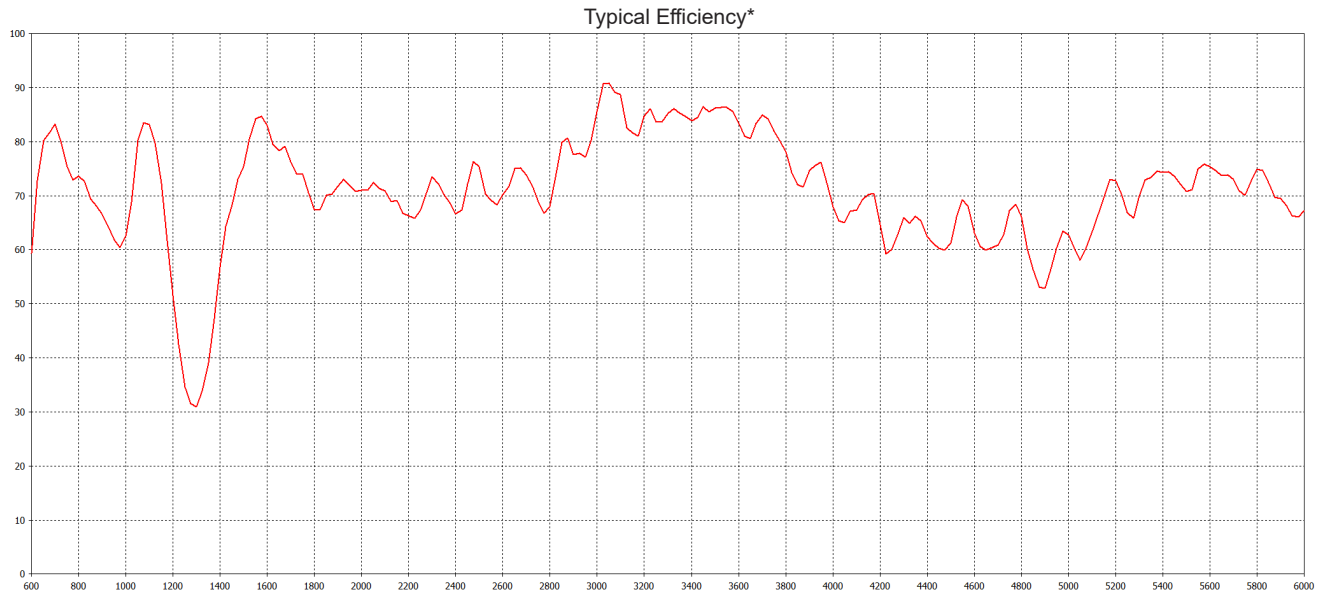
*VSWR measured in free space on bracket with 0.5m (1.6') of CS29 cable

4G/5G Low Profile Antenna

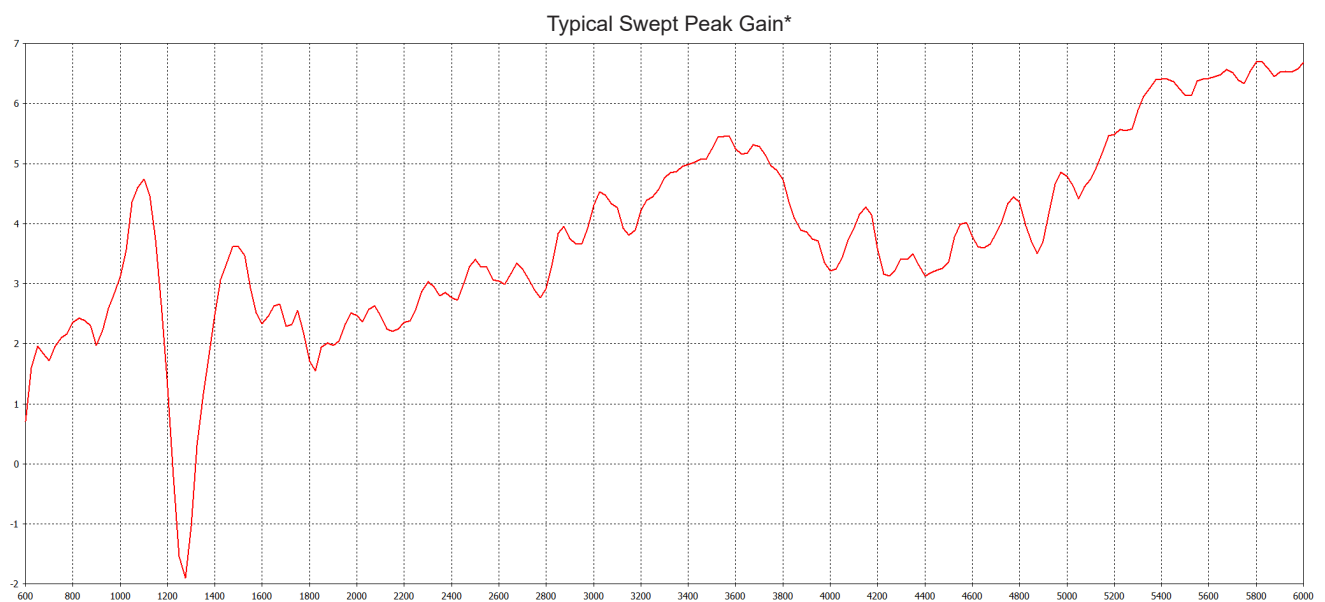
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Electrical Data Cell-
Free Space on bracket



*Efficiency measured in free space on bracket with 0.5m (1.6') of CS29 cable



*Peak Gain measured in free space on bracket with 0.5m (1.6') of CS29 cable

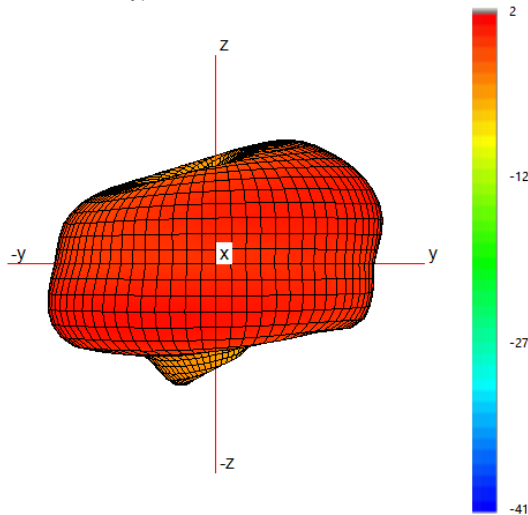
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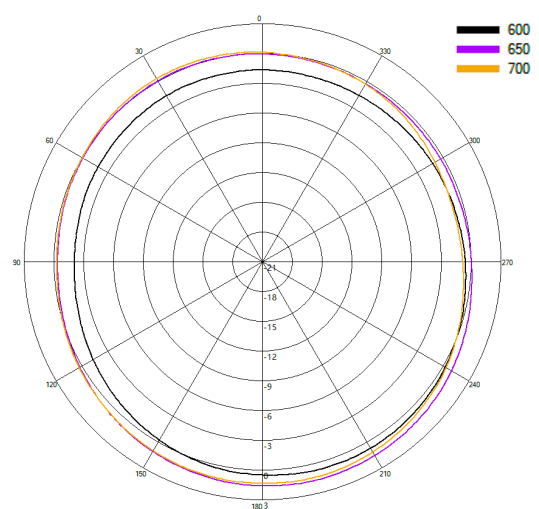
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3D Pattern Data in Free
Space on bracket Cell

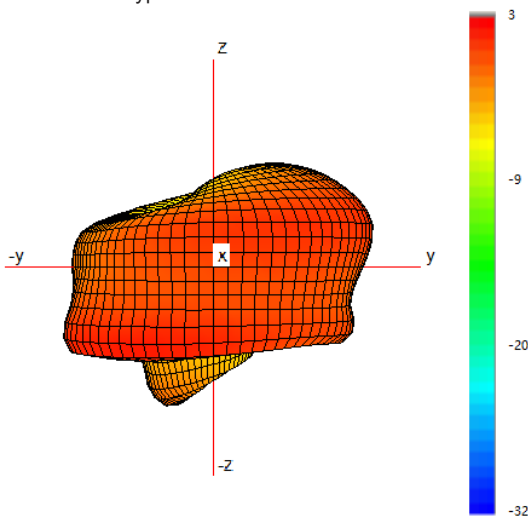
Typical 3D Pattern- Cell - 650 MHz



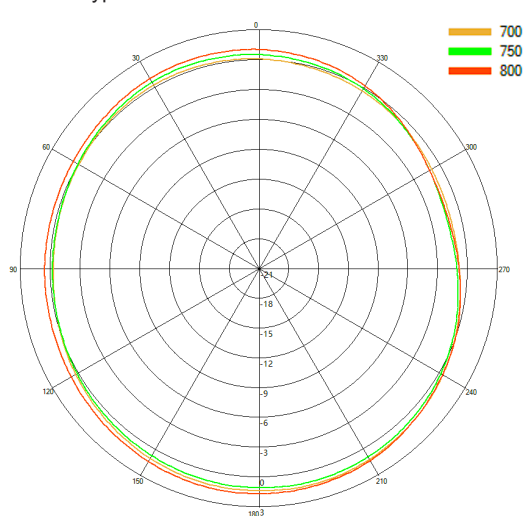
Typical H Plane- Cell - Patterns- 600-700MHz



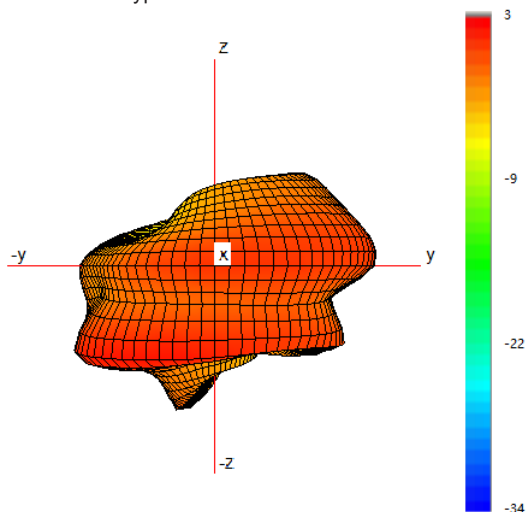
Typical 3D Pattern- Cell - 750 MHz



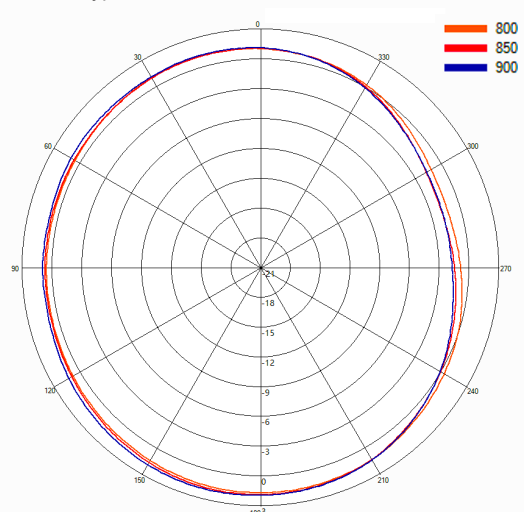
Typical H Plane- Cell - Patterns- 700-800MHz



Typical 3D Pattern- Cell - 850 MHz



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



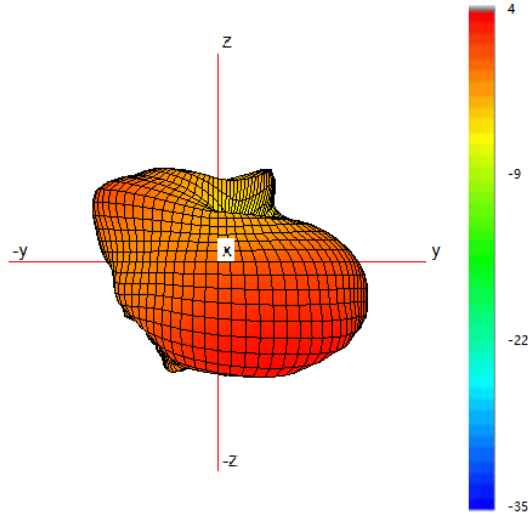
4G/5G Low Profile Antenna

B4BE[W]-6-60-[X]

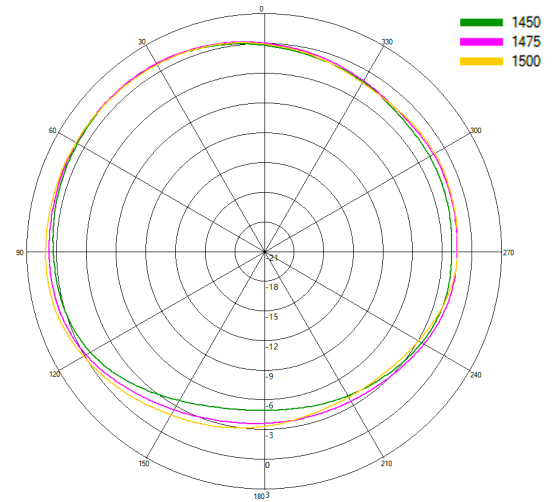
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3D Pattern Data in Free Space on bracket Cell

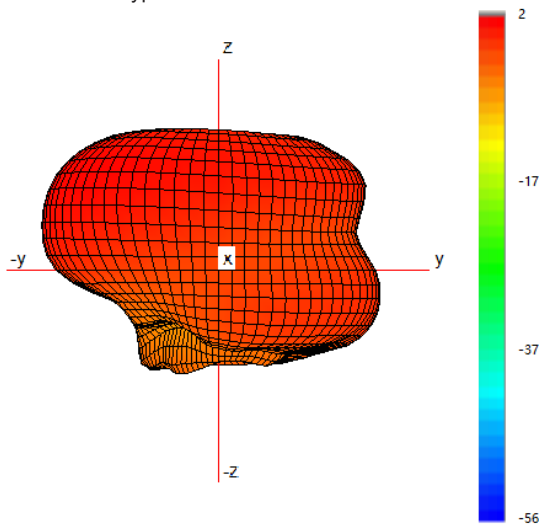
Typical 3D Pattern- Cell - 1475 MHz



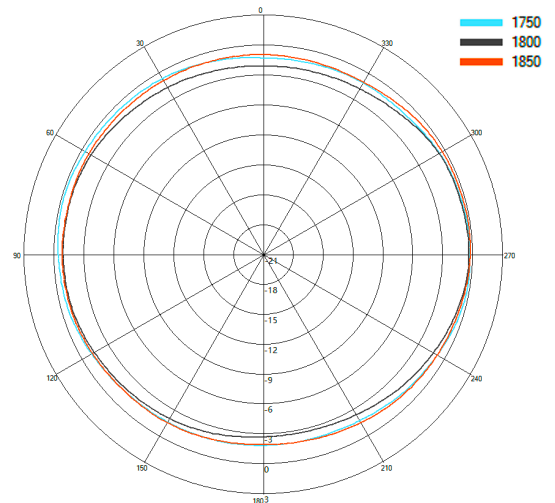
Typical H Plane- Cell- Patterns- 1450-1500 MHz



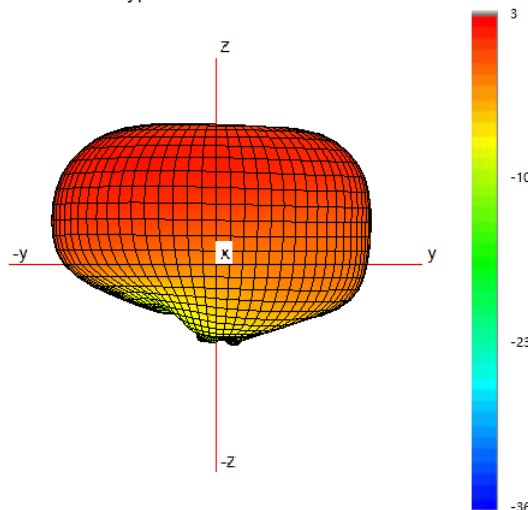
Typical 3D Pattern- Cell - 1800 MHz



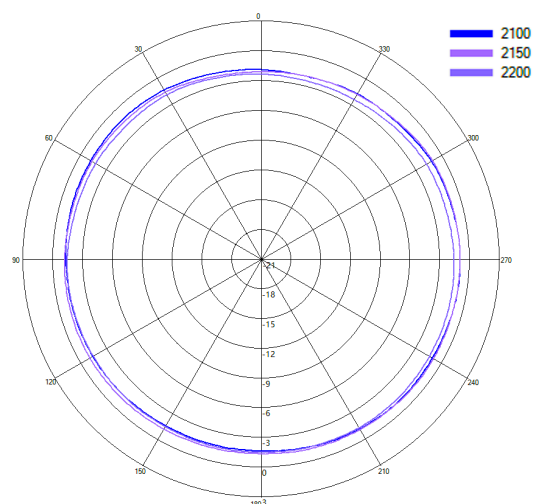
Typical H Plane- Cell- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell - 2150 MHz



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



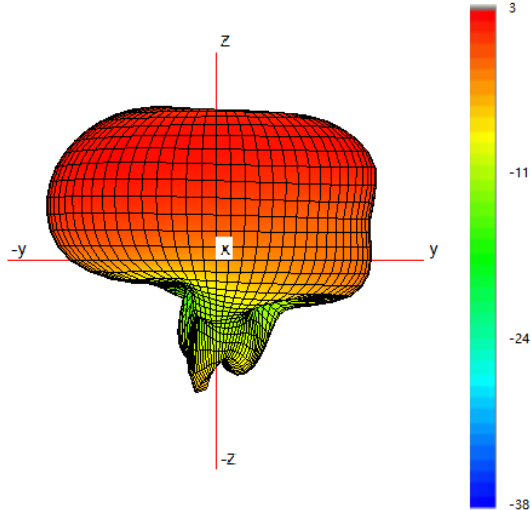
4G/5G Low Profile Antenna

B4BE[W]-6-60-[X]

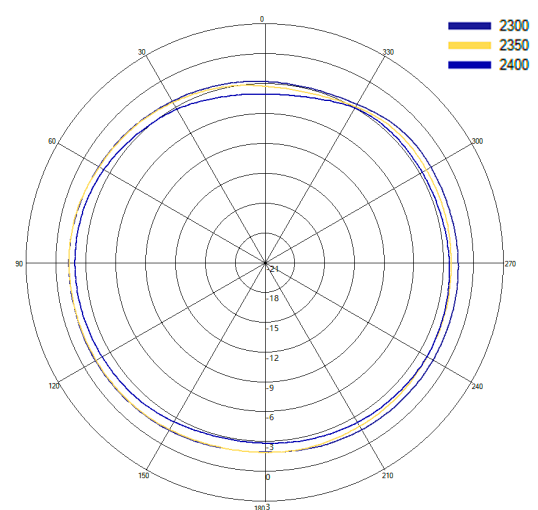
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3D Pattern Data in Free
Space on bracket Cell

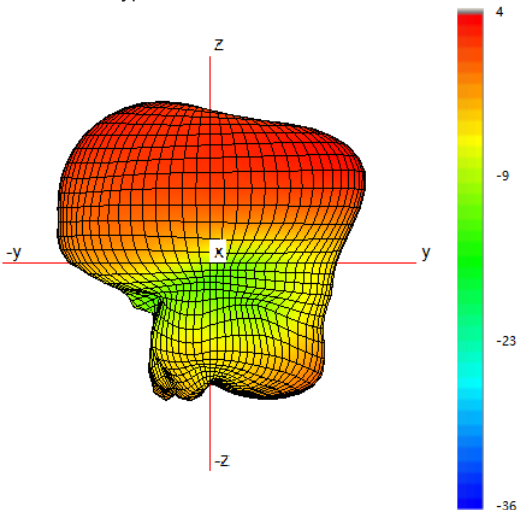
Typical 3D Pattern- Cell - 2350 MHz



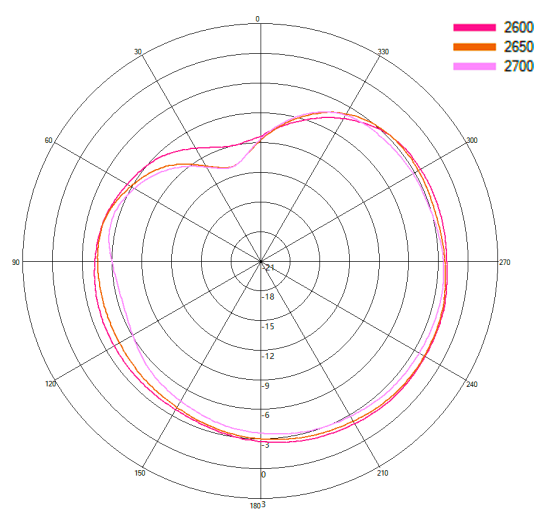
Typical H Plane- Cell - Patterns- 2300-2400 MHz



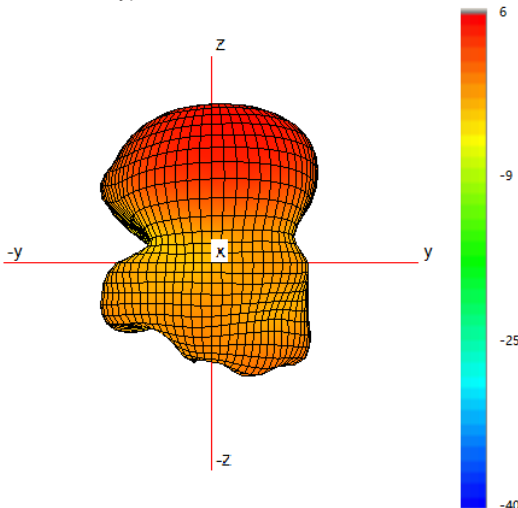
Typical 3D Pattern- Cell - 2650 MHz



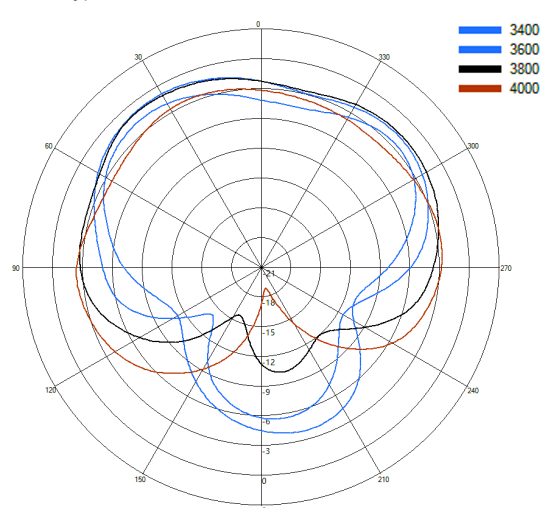
Typical H Plane- Cell - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell - 3600 MHz



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



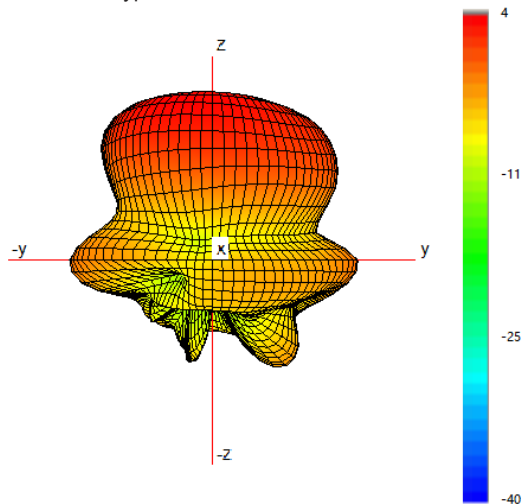
4G/5G Low Profile Antenna

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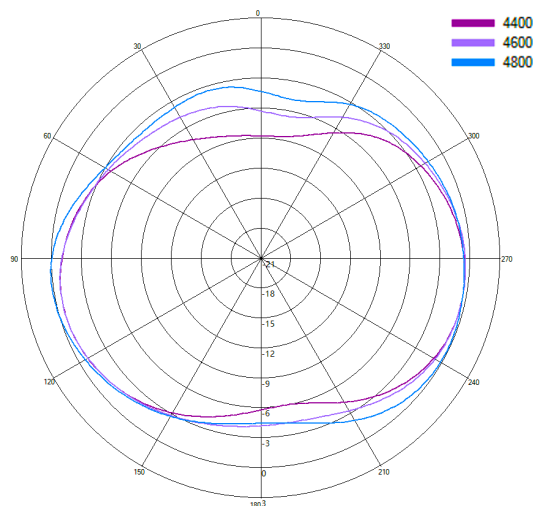
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3D Pattern Data in Free Space on bracket Cell

Typical 3D Pattern- Cell - 4700 MHz



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



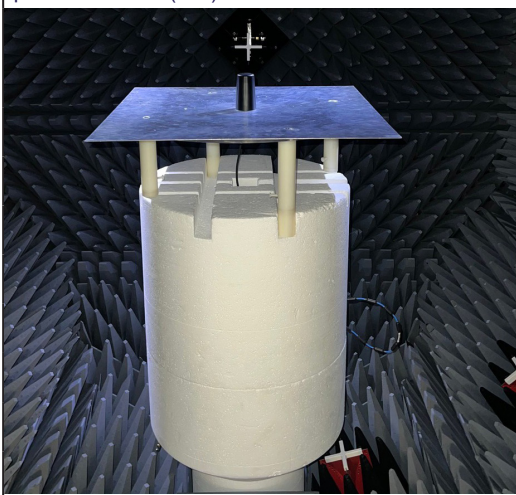
4G/5G Low Profile Antenna

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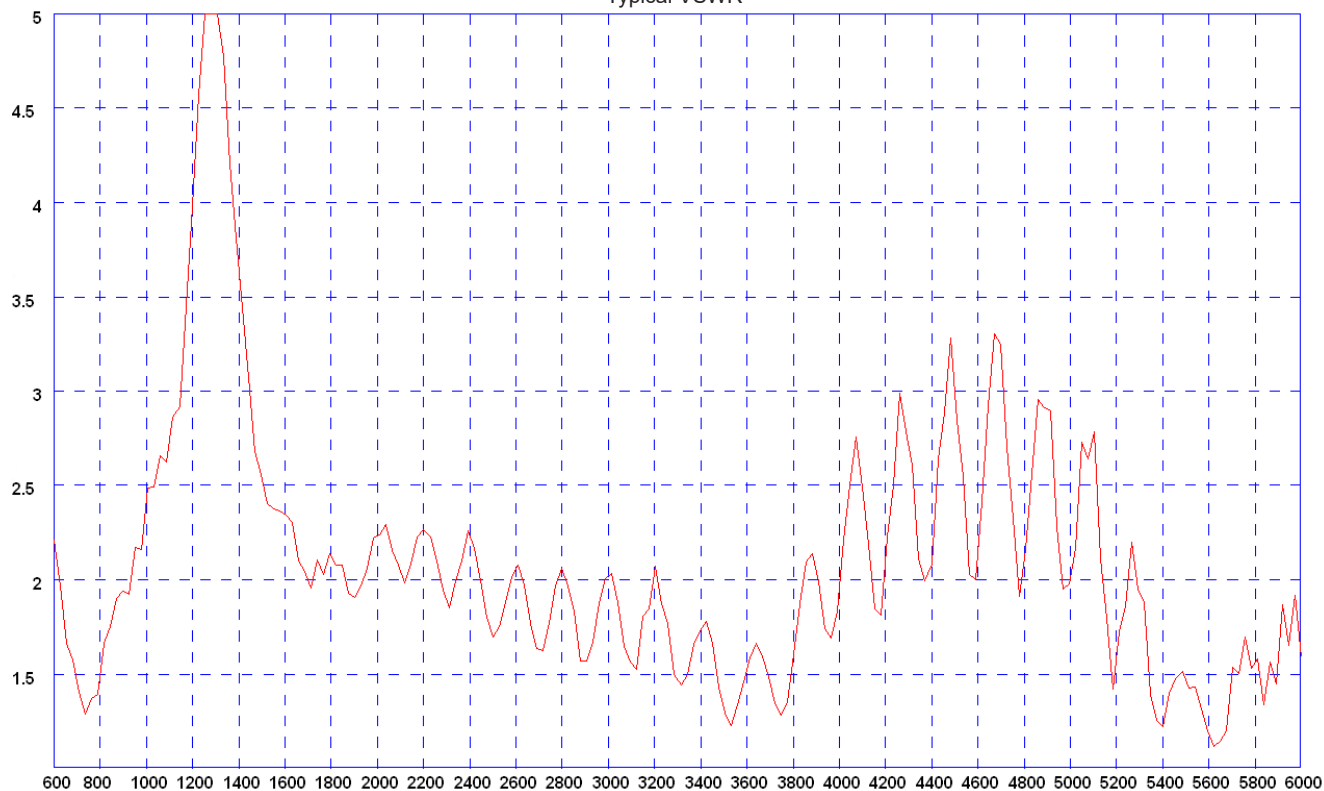
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Electrical Data Cell -
Ground Plane

Measurement Conditions	4G/5G Antenna			
	Frequency Range (MHz)	LTE/NR Bands	Peak Gain (dBi)	Efficiency (%)
B4BE-6-60 measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable	617-698	71, 105	3.8	71
	699-798	12,13, 14 17,28	3.1	59
	807- 862	5,19,20,26,27	3.5	69
	880-960	8	3.9	75
	1427-1518	11, 21, 74,75,76	4.1	54
	1710-1920	2,3,4,9,25,35,39,66	4.7	67
	1920-2170	1,23	4.6	69
	2300-2400	30,40	4.1	73
	2496-2690	7,38,41	4.7	80
	3300-4200	22,42,43,48,77,78	6.7	74
	4400-5000	79	5.6	57



Typical VSWR*



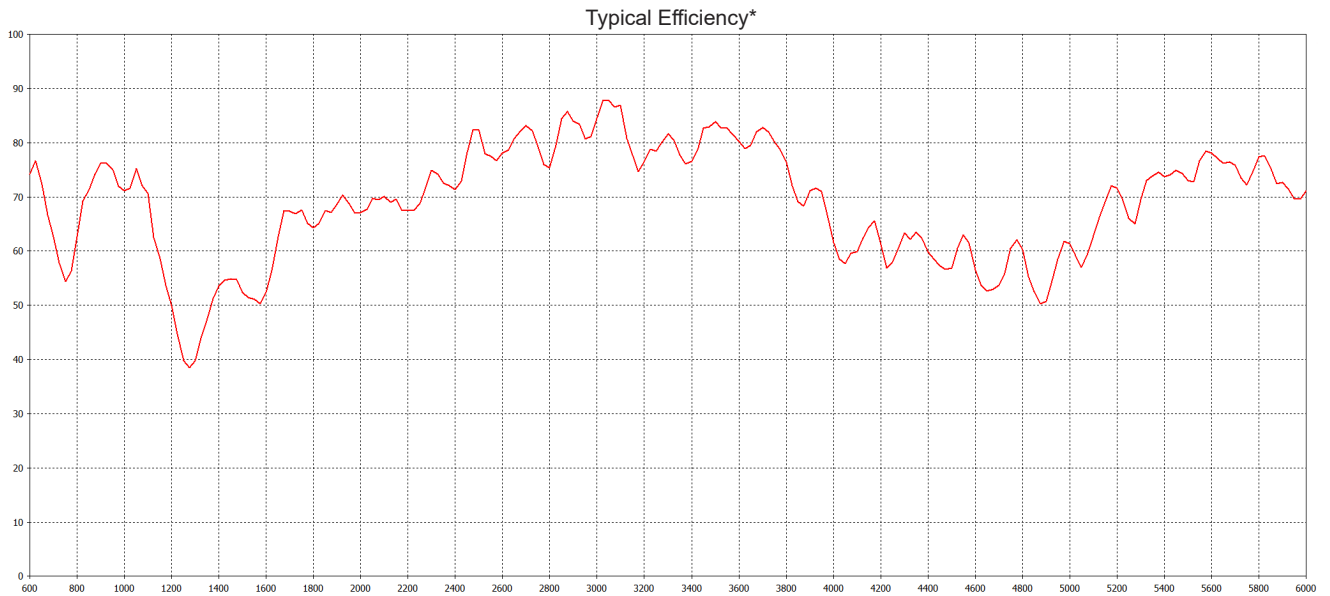
*VSWR measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

4G/5G Low Profile Antenna

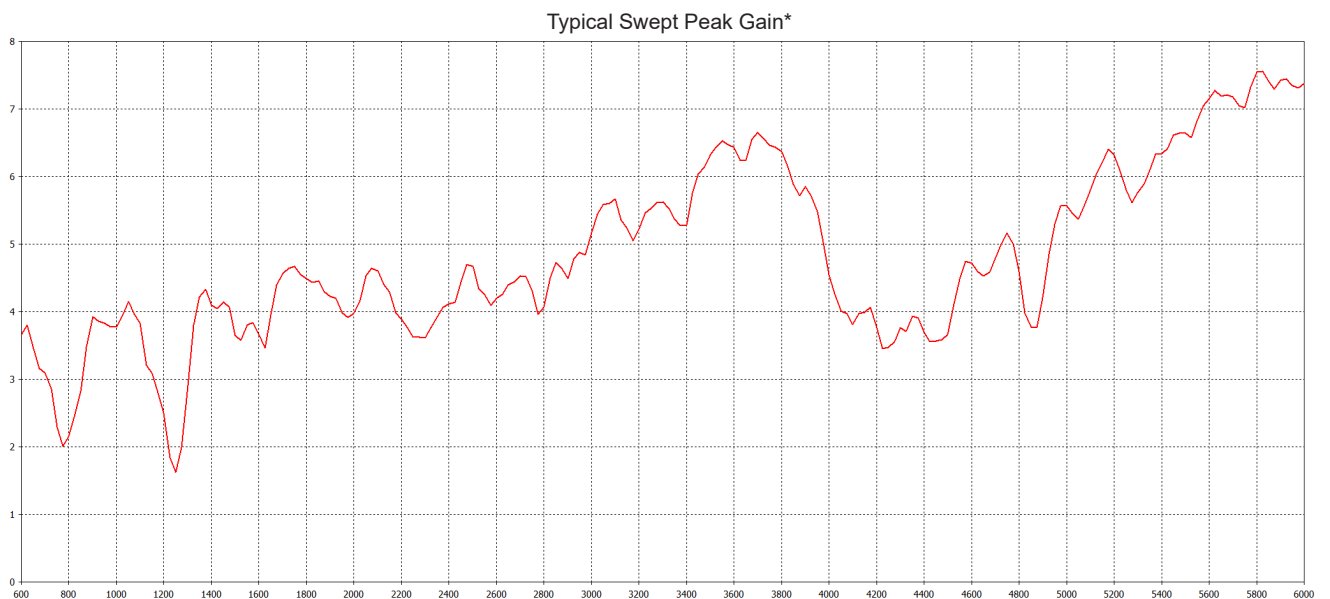
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Electrical Data Cell -
Ground Plane



*Efficiency measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable



*Peak Gain measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

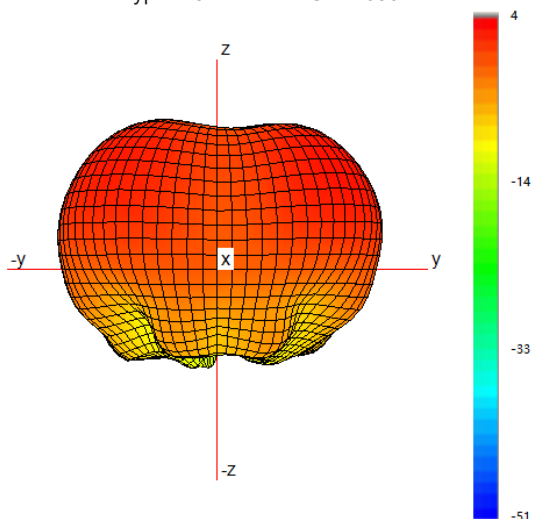
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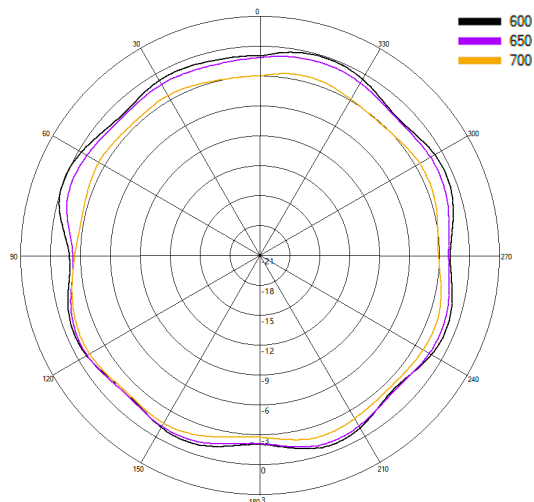
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3D Pattern Data on
Ground Plane Cell

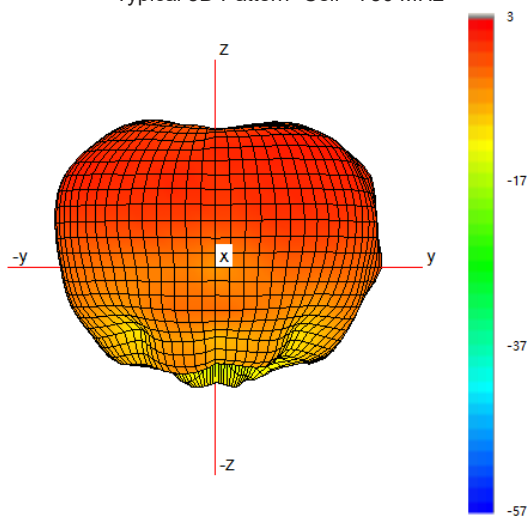
Typical 3D Pattern- Cell - 650 MHz



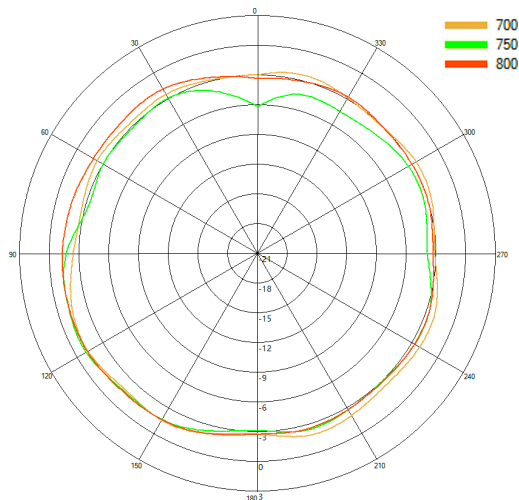
Typical H Plane- Cell - Patterns- 600-700MHz



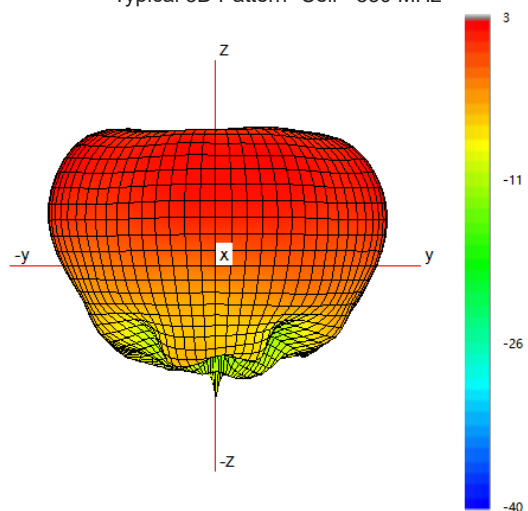
Typical 3D Pattern- Cell - 750 MHz



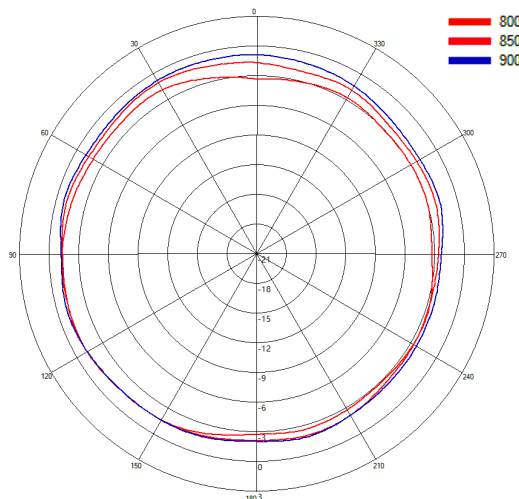
Typical H Plane- Cell - Patterns- 700-800MHz



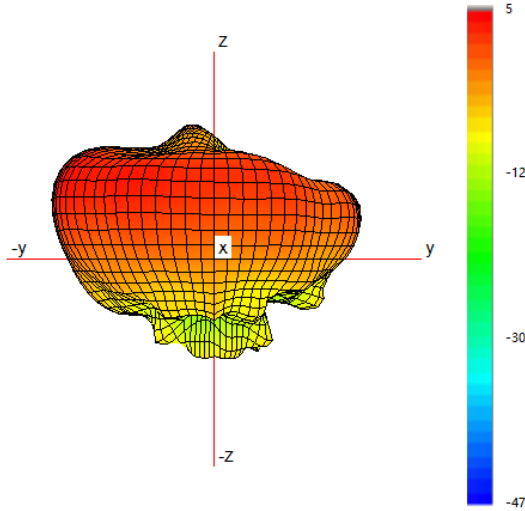
Typical 3D Pattern- Cell - 850 MHz



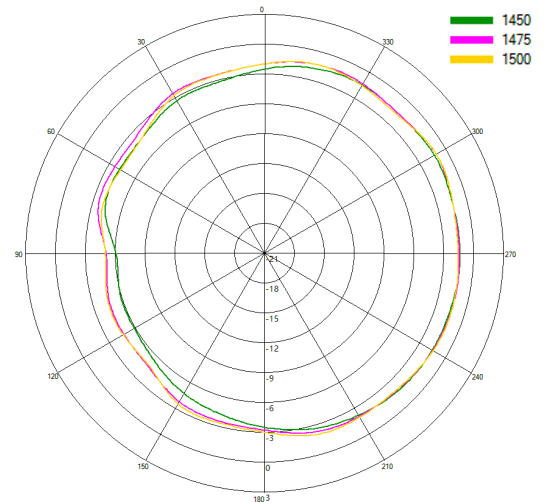
Typical H Plane- Cell - Patterns- 800-900MHz



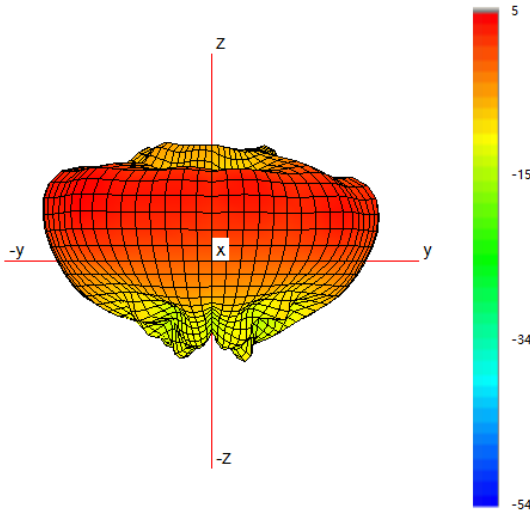
Typical 3D Pattern- Cell - 1475 MHz



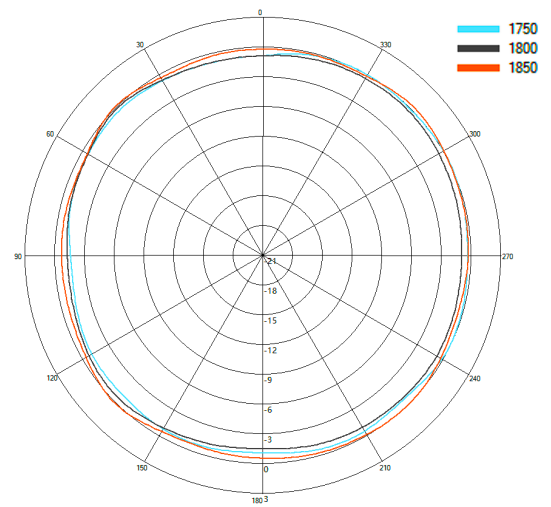
Typical H Plane- Cell- Patterns- 1450-1500 MHz



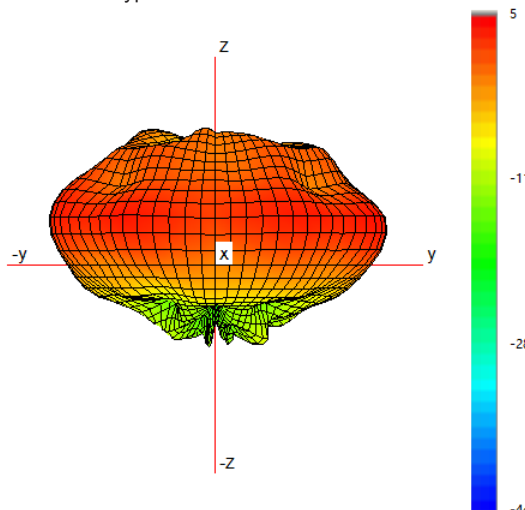
Typical 3D Pattern- Cell - 1800 MHz



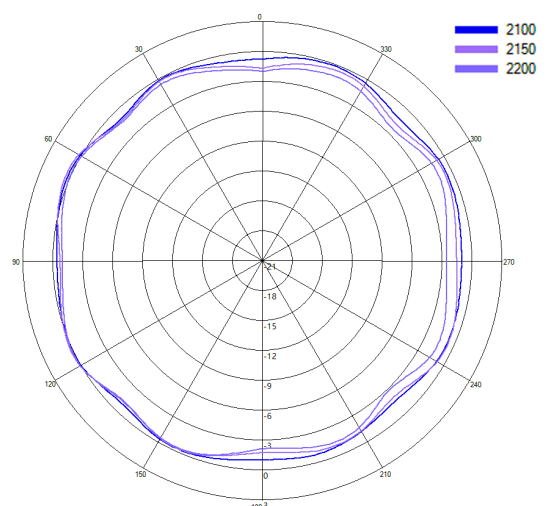
Typical H Plane- Cell- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell - 2150 MHz



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



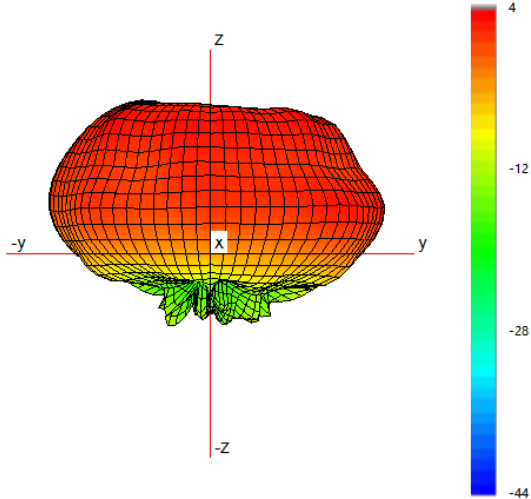
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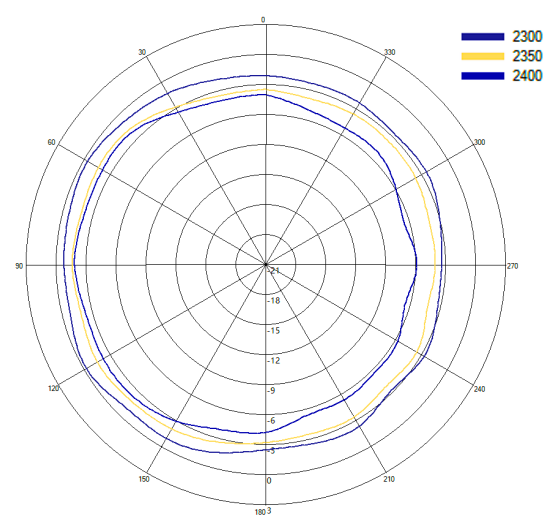
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3D Pattern Data on
Ground Plane Cell

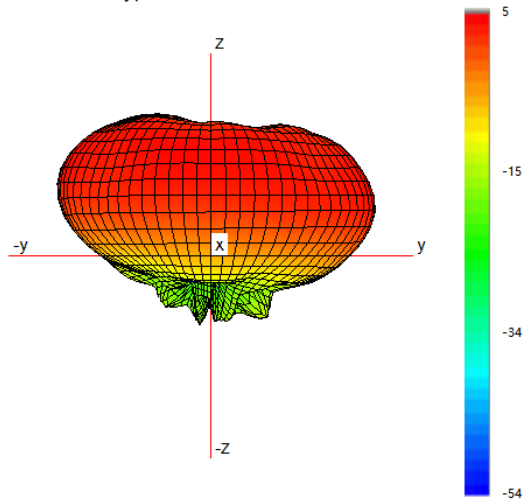
Typical 3D Pattern- Cell - 2350 MHz



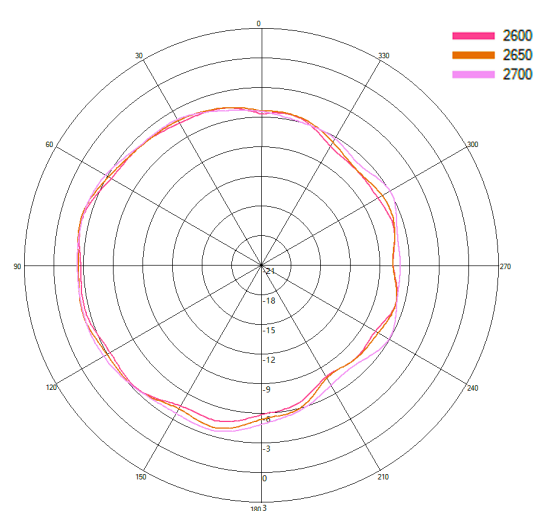
Typical H Plane- Cell - Patterns- 2300-2400 MHz



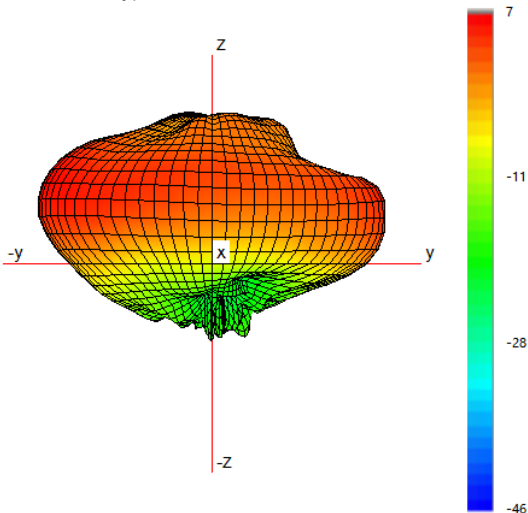
Typical 3D Pattern- Cell - 2650 MHz



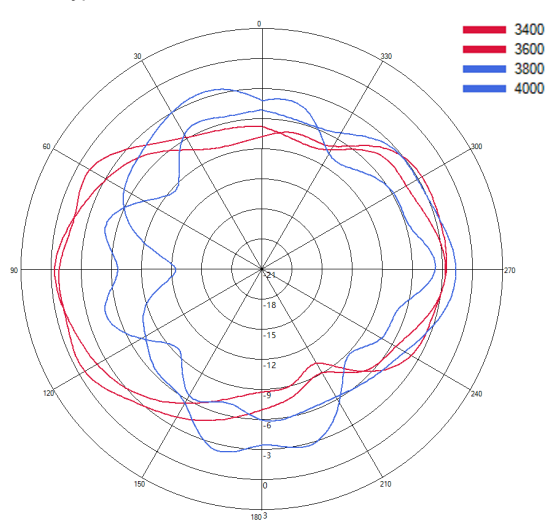
Typical H Plane- Cell - Patterns- 2600-2700 MHz



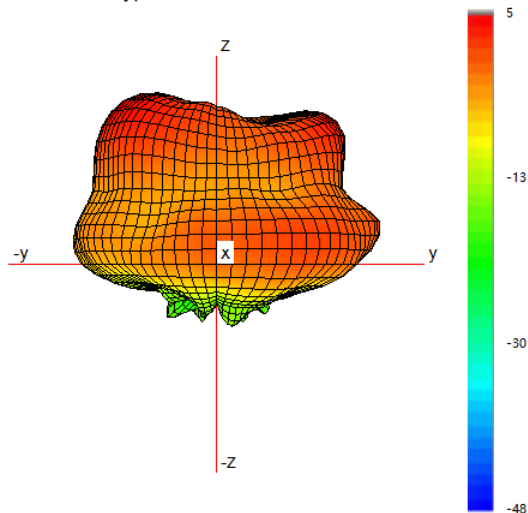
Typical 3D Pattern- Cell - 3600 MHz



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



Typical 3D Pattern- Cell - 4700 MHz



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

