

4G/5G Bracket Antenna

B4BE-460-6-60-[X]

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- Cost effective SiSo 4G/5G antenna solution
- Covers 410-520/617-960/1427-6000MHz
- Wall, mast, cabinet/enclosure or vehicle installation
- Integrated 5m (16.4') double shielded coaxial cable

The B4BE-460-6-60-[X] antenna is a cost effective omni-directional broadband antenna range for 4G/5G devices operating at UHF and higher frequencies . It covers 410-520/617-960/1427-6000MHz and is suitable for external or internal installation. It can also be used as a UHF antenna or dualband UHF / 7/800MHz for PMR applications.

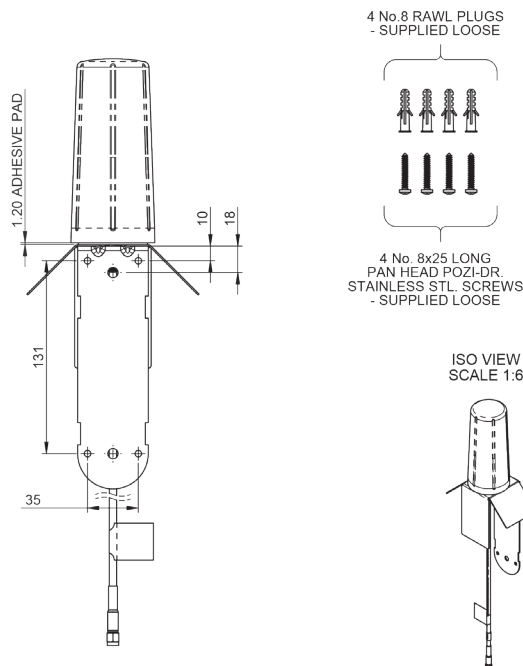
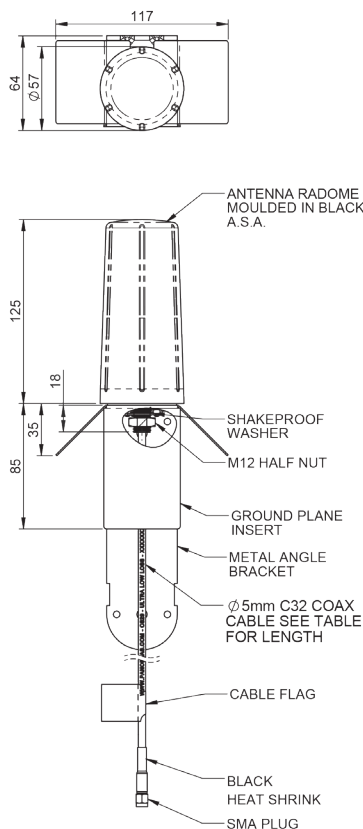
The mounting bracket enables simple wall/panel mounting using the supplied screws & wall plugs or mast mounting using a pipe clip or cable ties (not supplied).

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

The B4BE-460-6-60 antenna is supplied with ultra-low loss CS32 coaxial cable, of various lengths. A variety of coaxial connectors are available.

Technical Drawing

B4BE-460-6-60-VARSP Shown



4G/5G Bracket Antenna

B4BE-460-6-60-[X]

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Product Data

Part No.

B4BE-460-6-60-5SP

Electrical Data

Frequency Range (MHz) 410-520 / 617-960 / 1427-6000MHz

Typical VSWR <2.5:1

410-520MHz 3.7

Peak Gain* 617-960MHz 5.0

(dBi) 1427-2700MHz 8.5

3300-6000MHz 9.6

Polarisation Vertical

Pattern Omni-directional

Impedance 50Ω

Max Input Power (W) 60

Mechanical Data

Dimensions Height mounted 125mm (4.92")

Diameter 57mm (2.24")

Operating Temp (°C) -40° / +85°C (-40° / 185°F)

Material ASA, aluminium, zinc plated steel

Material Approvals Radome ASA material - UL 746C F2, UL 94-HB

Colour Black

Ingress Protection IP66

Mounting Data

Fixing Panel, wall or mast mount

Mounting Screw Diameter 12mm (0.47")

Cable Data

Type CS32

Diameter (mm) 5 (0.2")

Length (m) 5 (16.4')

Termination SMA Plug (m)

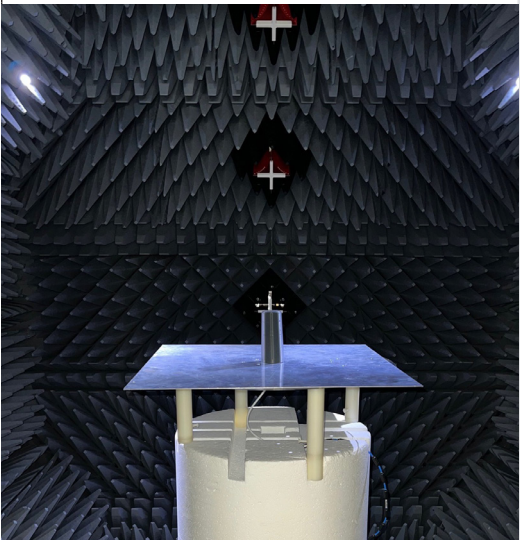
* Typical VSWR and peak gain measured on 600x600mm (2'x2') ground plane with 300mm (1') of CS32 cable

4G/5G Bracket Antenna

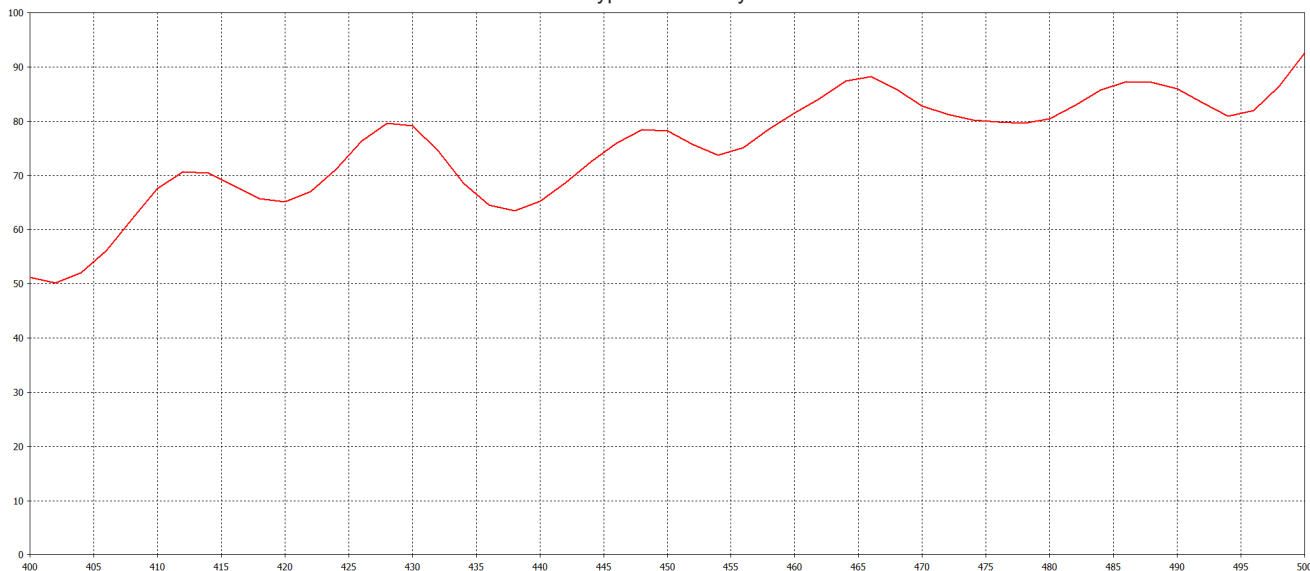
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Electrical Data Cell - Ground Plane

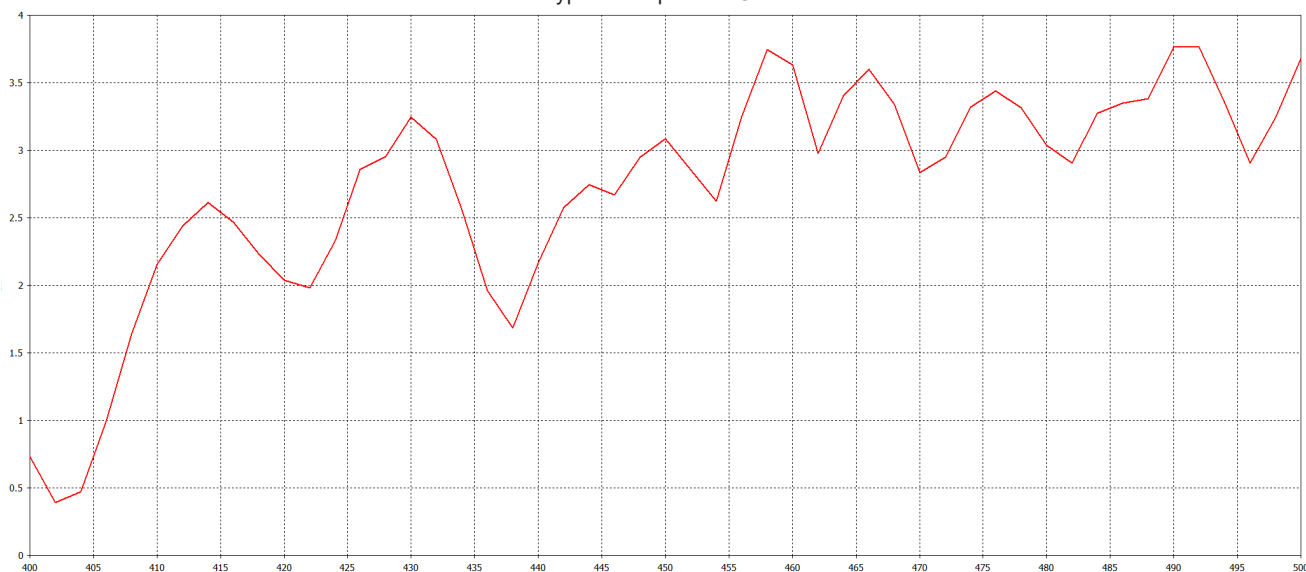
Measurement Conditions	4G/5G Antennas				
	Frequency Range (MHz)	LTE Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
Measured on 600 x 60mm (2' x 2') ground plane with 300mm (1') of CS32 cable 	410-430	87,88 (S2)	Cell	3.2	71
	450-470	31,72,73 (S4)	Cell	3.7	81
	617-698	71, 105	Cell	5.0	93
	699-798	12,13, 14 17,28	Cell	3.8	77
	807- 862	5,19,20,26,27	Cell	3.7	75
	880-960	8	Cell	3.9	73
	1427-1518	11, 21, 74,75,76	Cell	4.4	70
	1710-1920	2,3,4,9,25,35,39,66	Cell	6.8	83
	1920-2170	1,23	Cell	7.7	88
	2300-2400	30,40	Cell	8.5	89
	2496-2690	7,38,41	Cell	8.2	79
	3300-4200	22,42,43,48,77,78	Cell	9.2	80
	4400-5000	79	Cell	9.6	72

Typical Efficiency*



*Efficiency measured on 600x600mm (2'x2') ground plane with 300mm (1') of CS32 cable

Typical Swept Peak Gain*



*Peak Gain measured on 600x600mm (2'x2') ground plane with 300mm (1') of CS32 cable

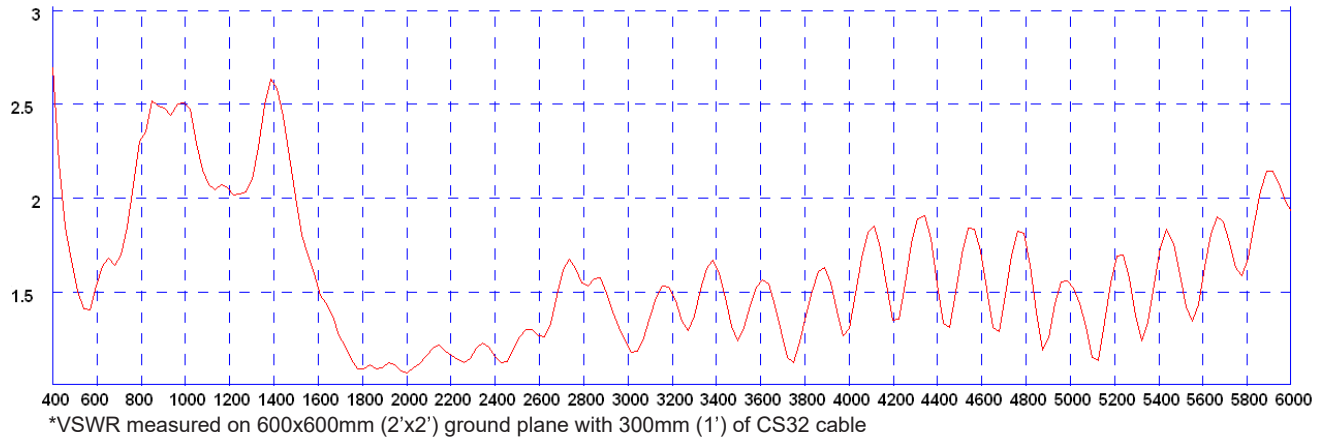
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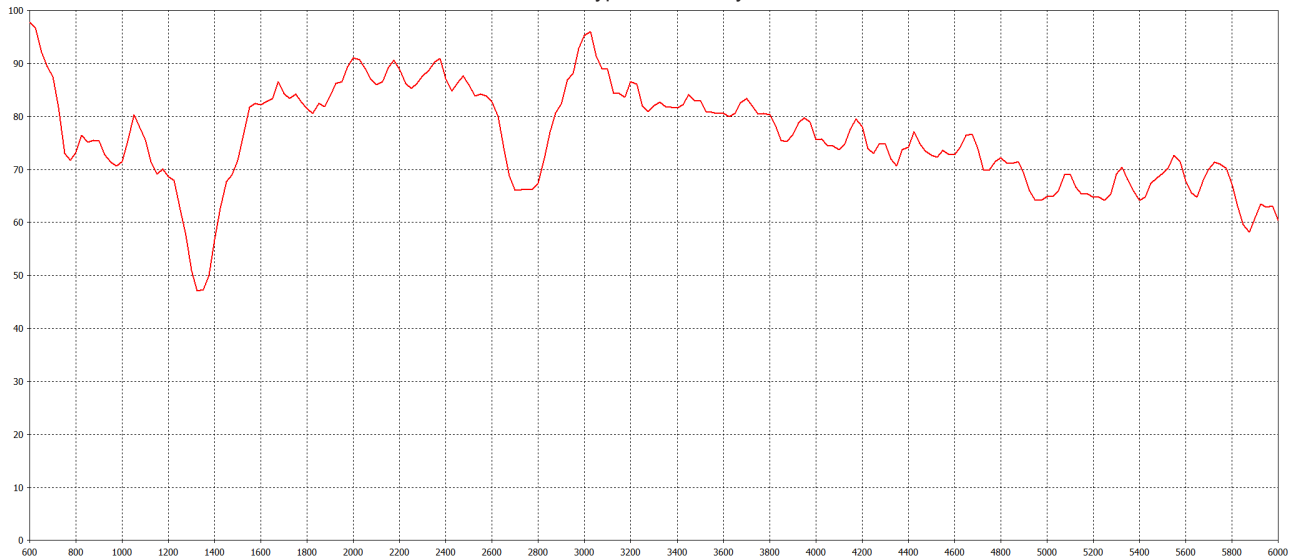
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Electrical Data Cell -
Ground Plane

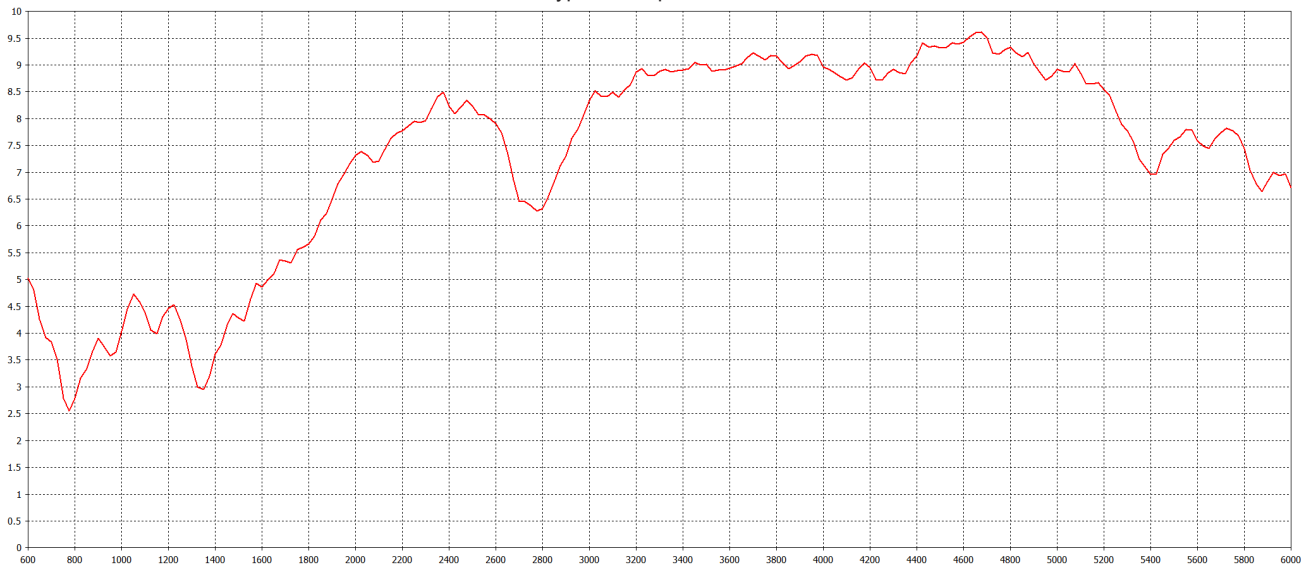
Typical VSWR*



Typical Efficiency*



Typical Swept Peak Gain*



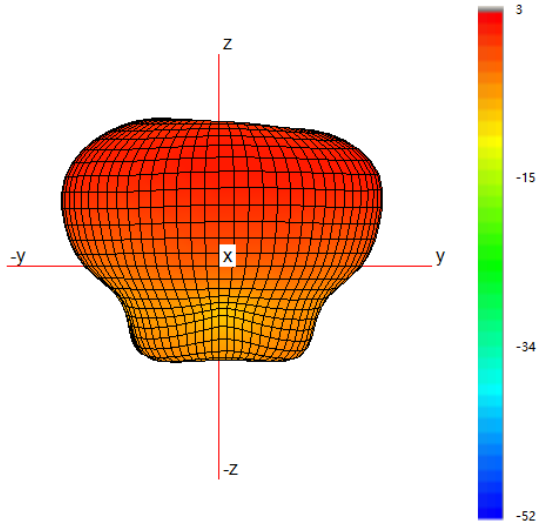
4G/5G Bracket Antenna

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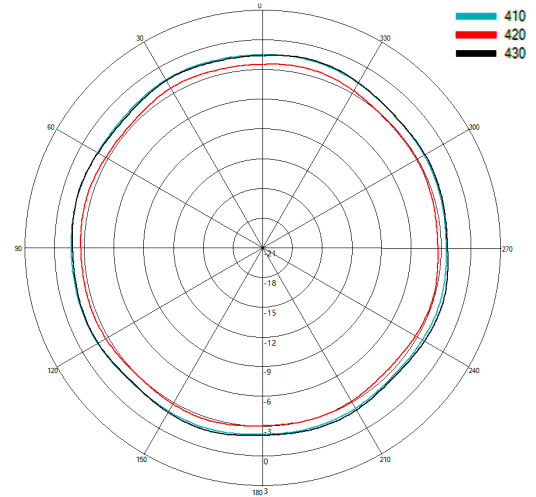
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3D Pattern Data on
Ground Plane UHF

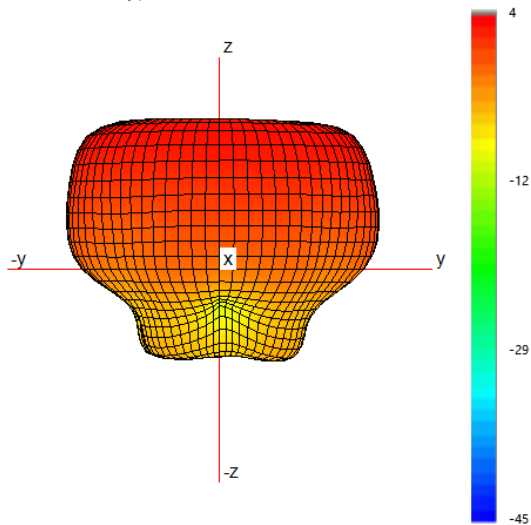
Typical 3D Pattern- UHF - 420 MHz



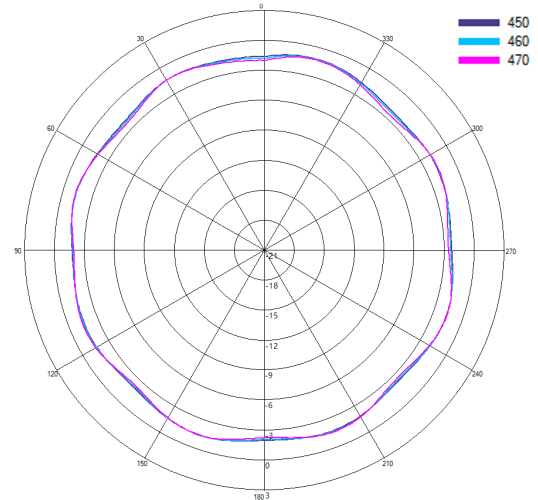
Typical H Plane- UHF - Patterns- 410-430 MHz



Typical 3D Pattern- UHF - 460 MHz



Typical H Plane- UHF - Patterns- 450-470 MHz



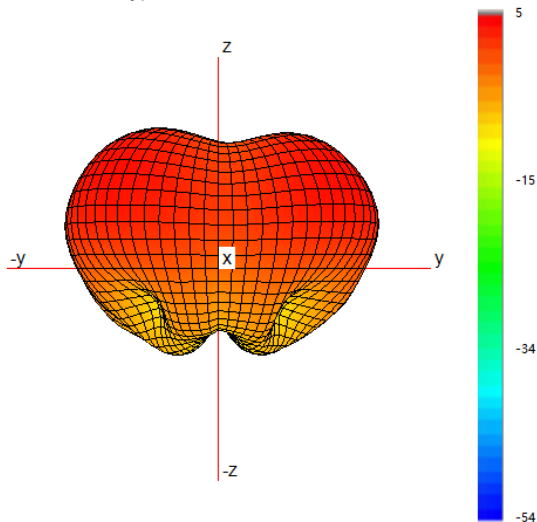
4G/5G Bracket Antenna

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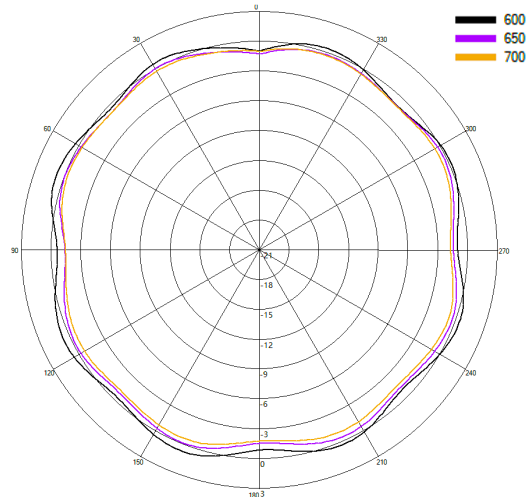
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3D Pattern Data on
Ground Plane Cell

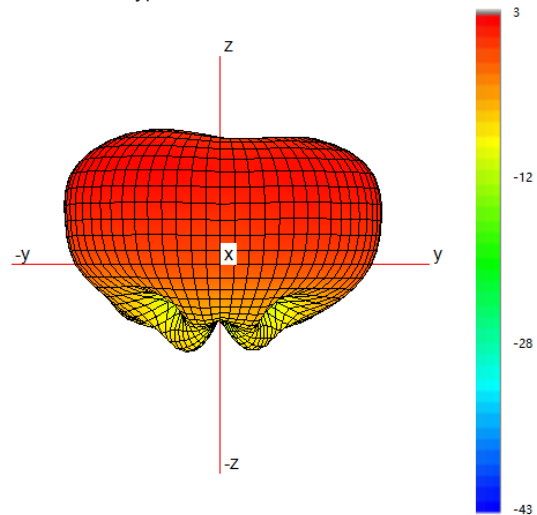
Typical 3D Pattern- Cell - 650 MHz



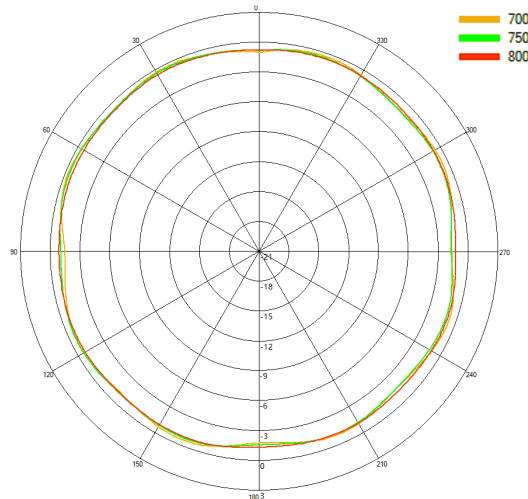
Typical H Plane- Cell - Patterns- 600-700MHz



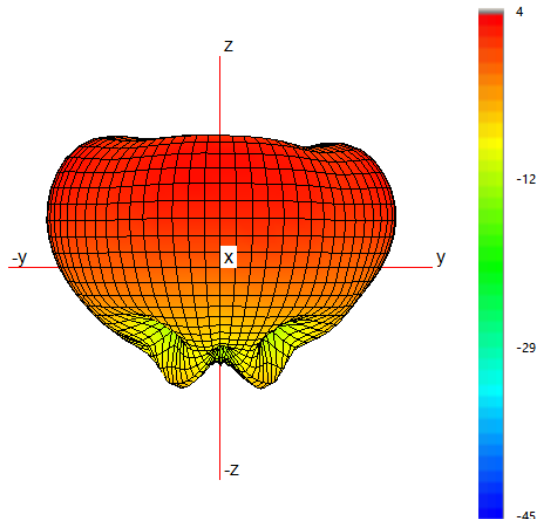
Typical 3D Pattern- Cell - 750 MHz



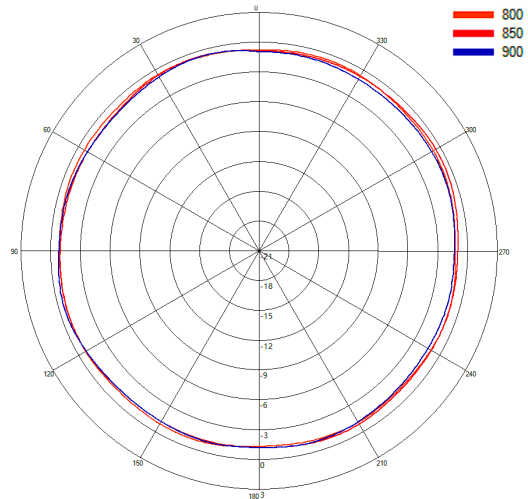
Typical H Plane- Cell - Patterns- 700-800MHz



Typical 3D Pattern- Cell - 850 MHz



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



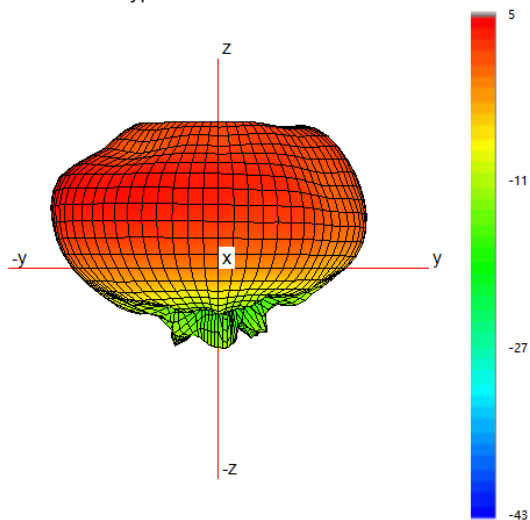
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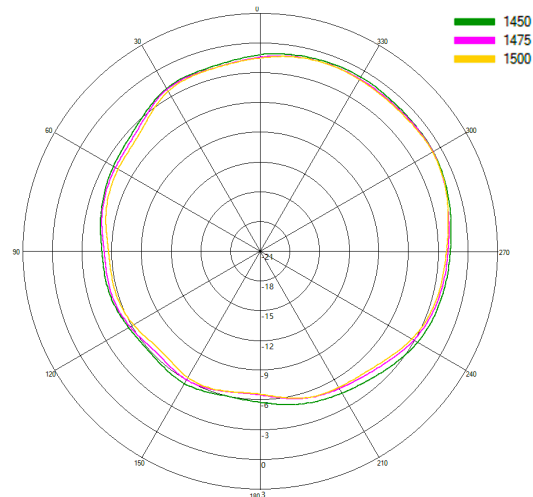
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3D Pattern Data on
Ground Plane Cell

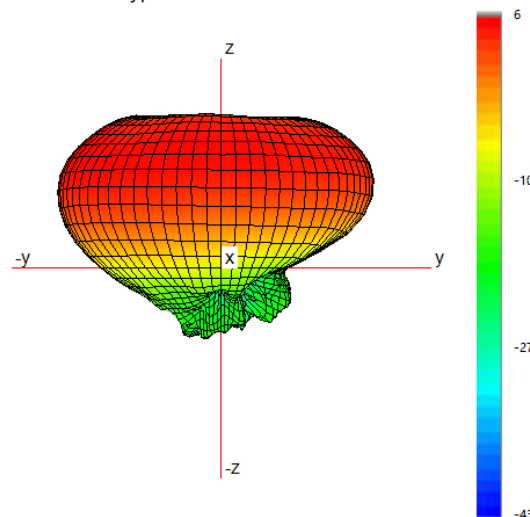
Typical 3D Pattern- Cell - 1475 MHz



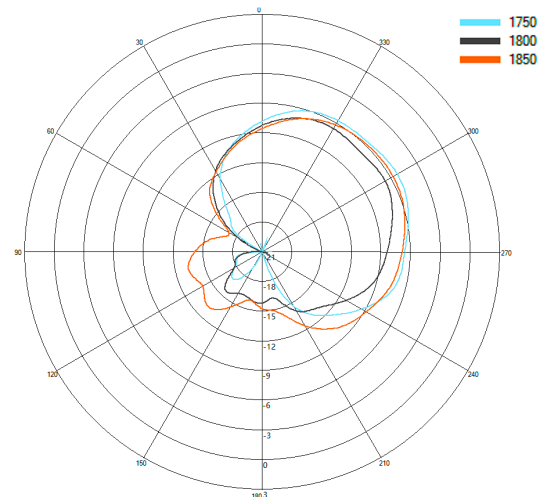
Typical H Plane- Cell- Patterns- 1450-1500 MHz



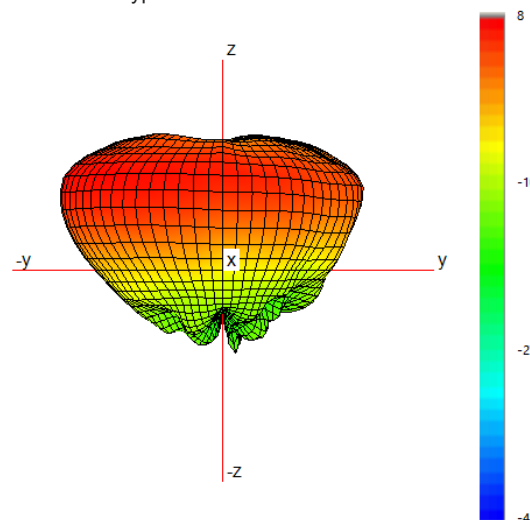
Typical 3D Pattern- Cell - 1800 MHz



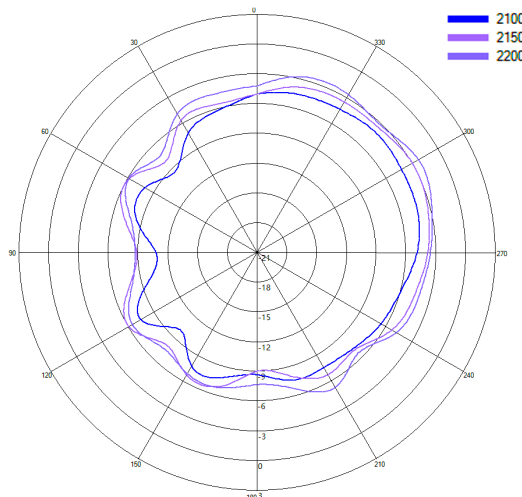
Typical H Plane- Cell - Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell - 2150 MHz



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



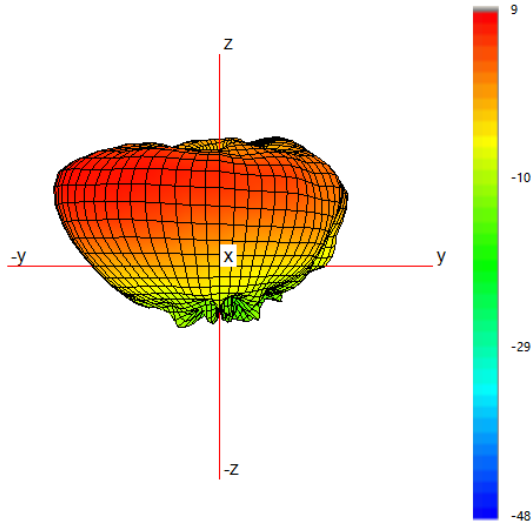
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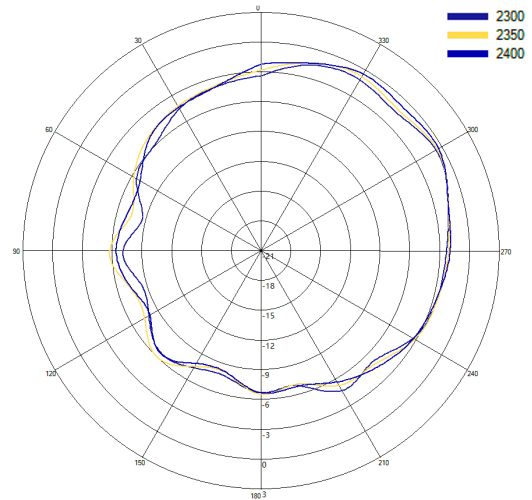
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3D Pattern Data on
Ground Plane Cell

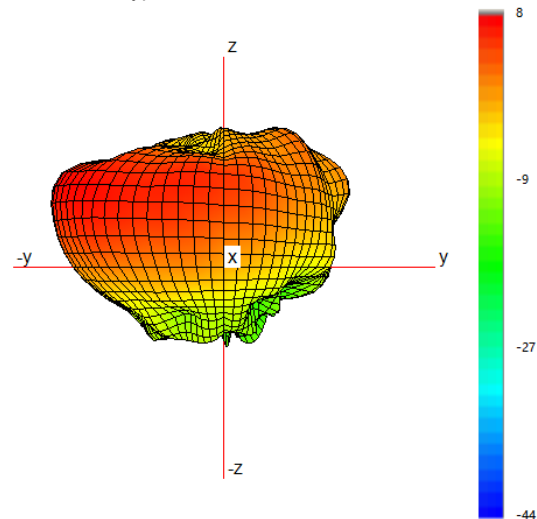
Typical 3D Pattern- Cell - 2350 MHz



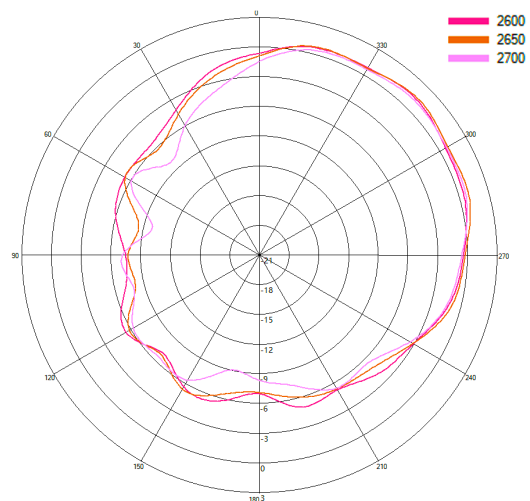
Typical H Plane- Cell - Patterns- 2300-2400 MHz



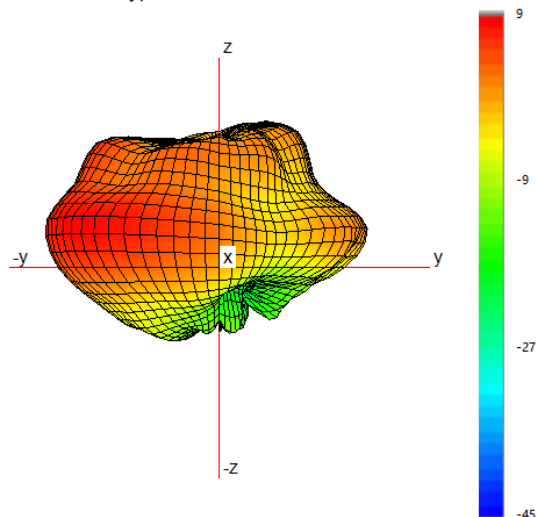
Typical 3D Pattern- Cell - 2650 MHz



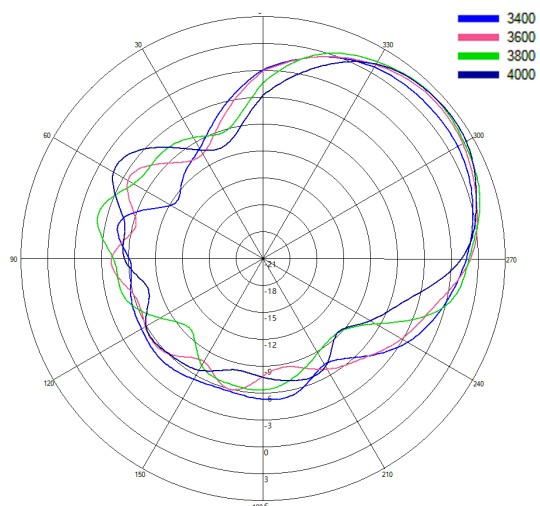
Typical H Plane- Cell - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell - 3600 MHz



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



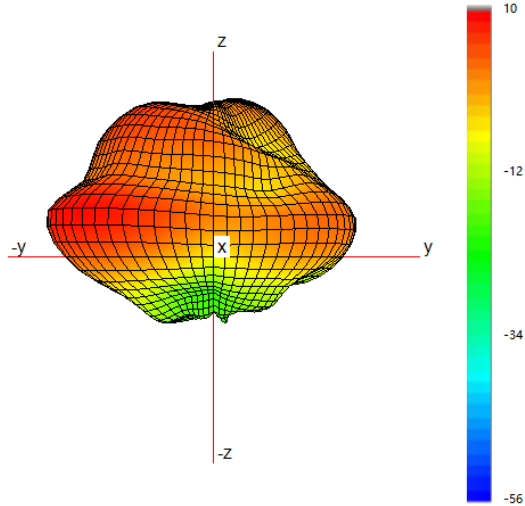
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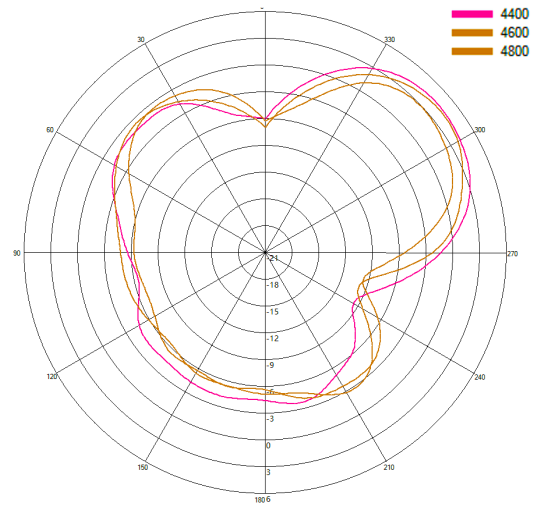
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3D Pattern Data on
Ground Plane Cell

Typical 3D Pattern- Cell - 4700 MHz



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

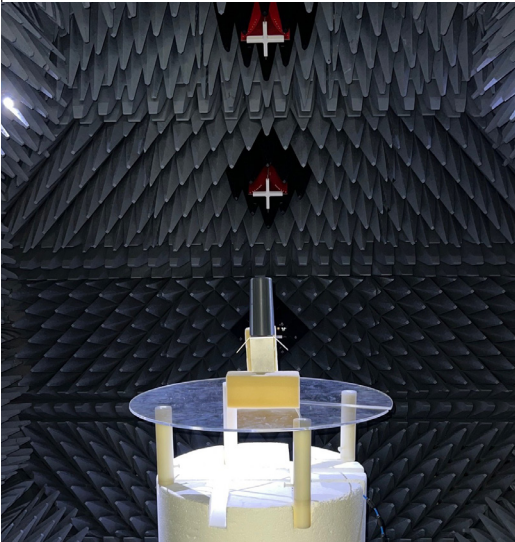


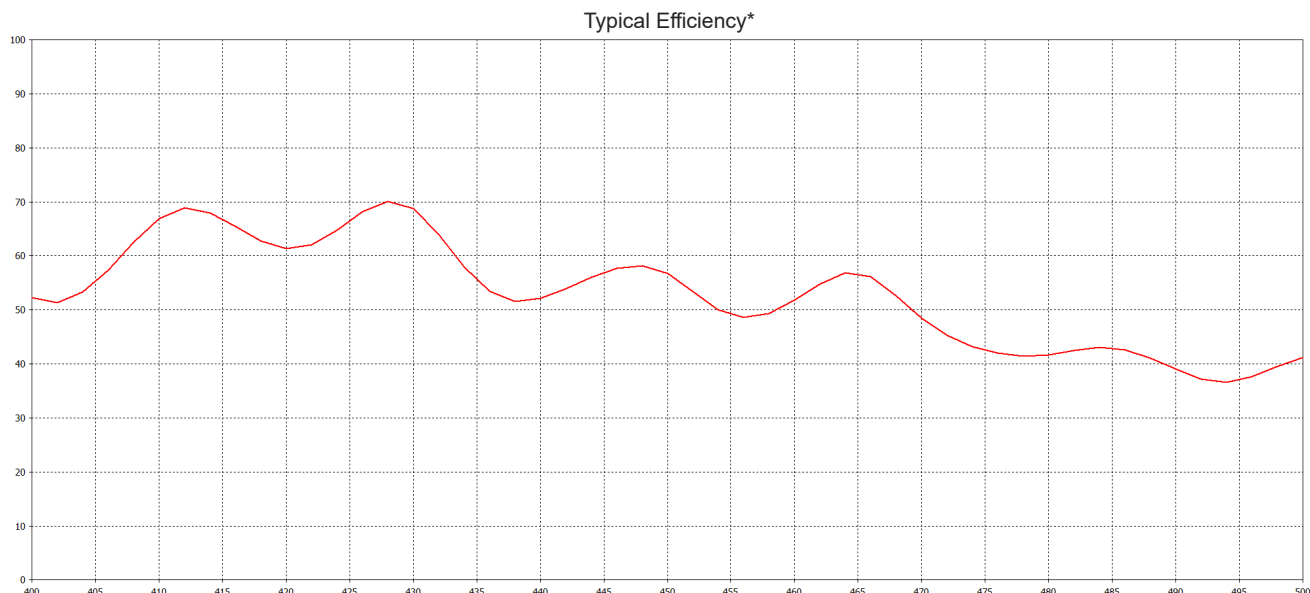
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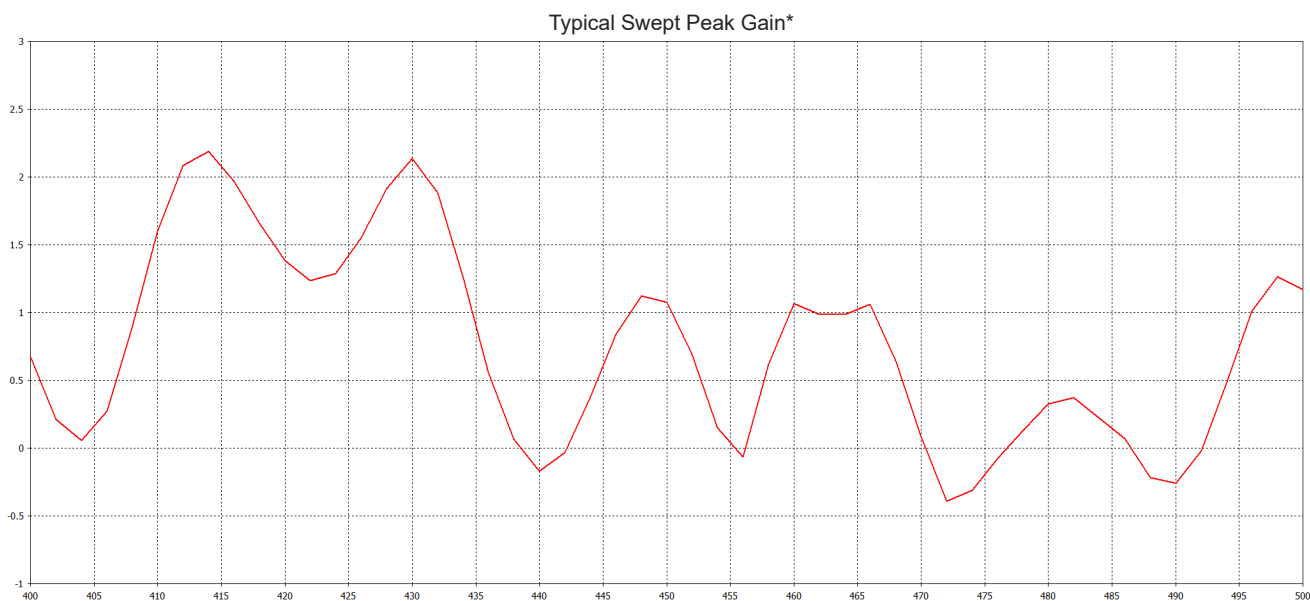
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Electrical Data Cell -
Free Space on bracket

Measurement Conditions	4G/5G Antennas				
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	880-960	8	Cell	2.7	79
	1427-1518	11, 21, 74,75,76	Cell	5.7	86
	1710-1920	2,3,4,9,25,35,39,66	Cell	4.6	80
	1920-2170	1,23	Cell	5.0	84
	2300-2400	30,40	Cell	6.1	88
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	4400-5000	79	Cell	7.1	63



*Efficiency measured in free space on bracket with 300mm (1') of CS32 cable



*Peak Gain measured in free space on bracket with 300mm (1') of CS32 cable

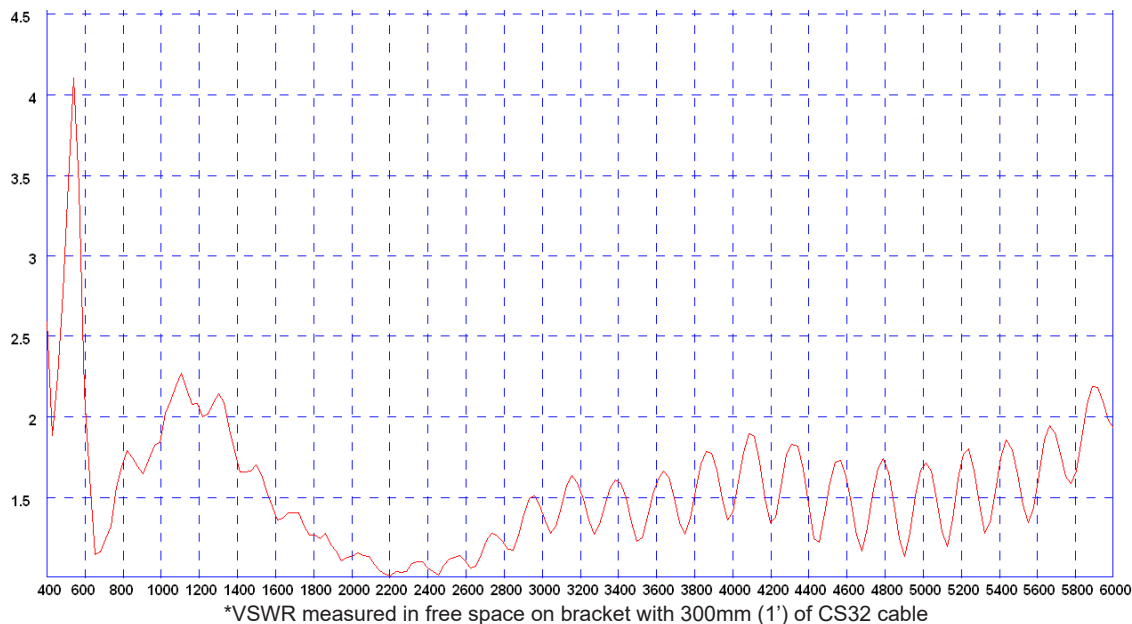
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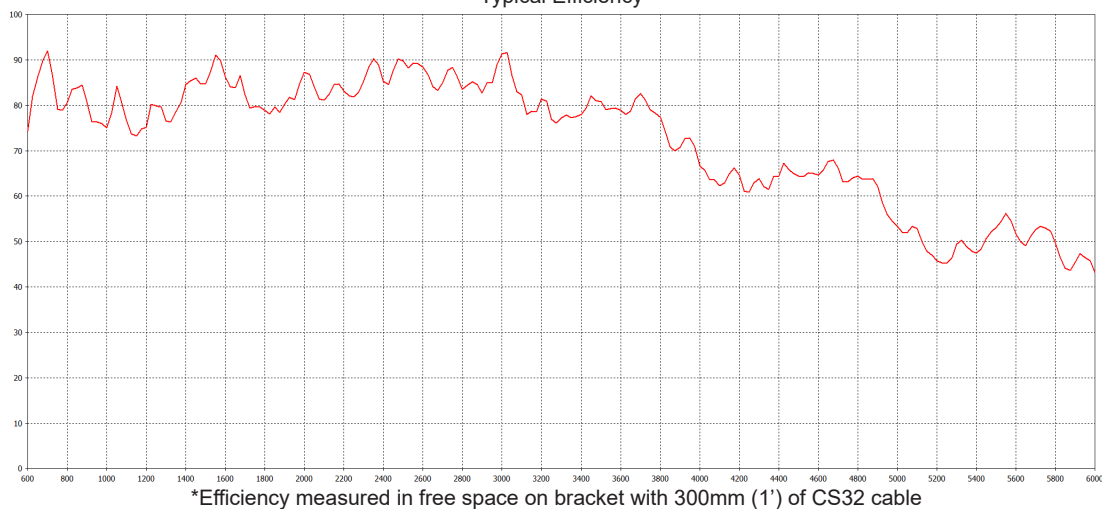
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Electrical Data Cell -
Free Space on bracket

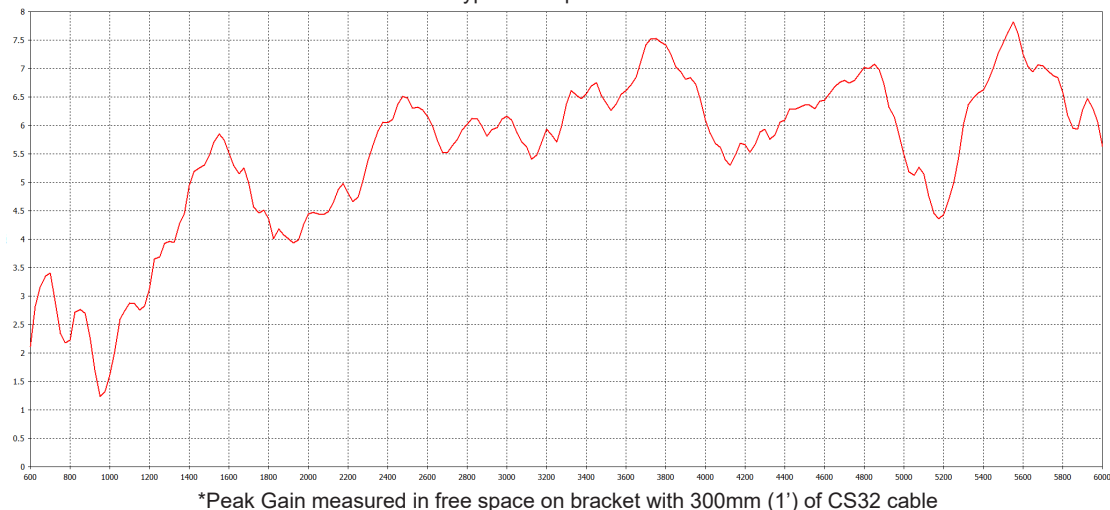
Typical VSWR*



Typical Efficiency*



Typical Swept Peak Gain*



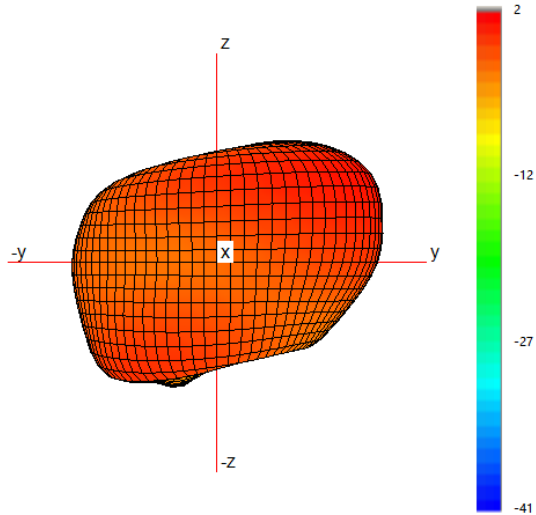
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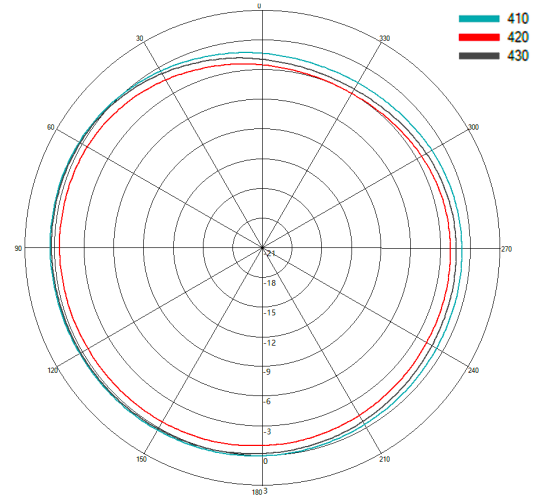
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Electrical Data UHF -
Free Space on bracket

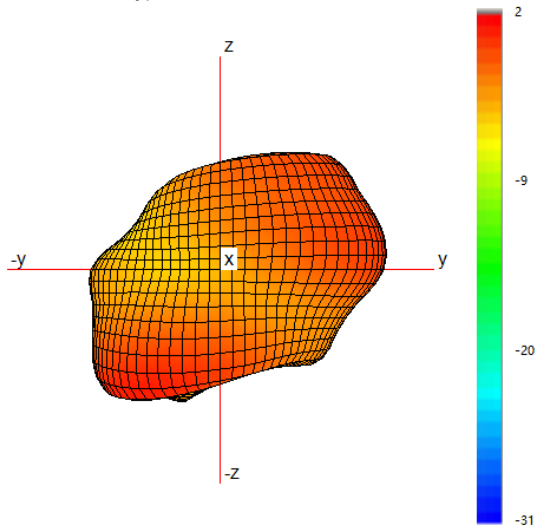
Typical 3D Pattern- UHF - 420 MHz



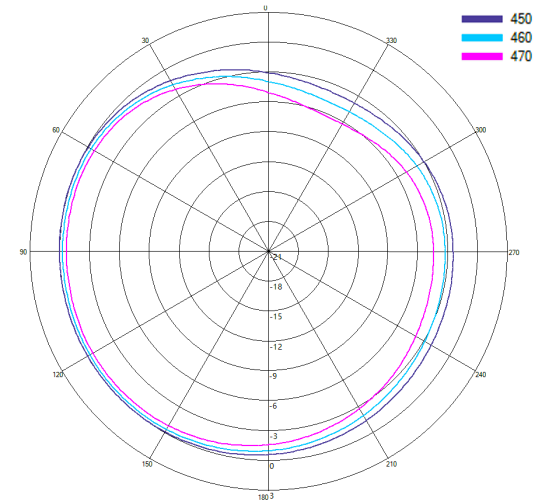
Typical H Plane- UHF - Patterns- 410-430 MHz



Typical 3D Pattern- UHF - 460 MHz



Typical H Plane- UHF - Patterns- 450-470 MHz



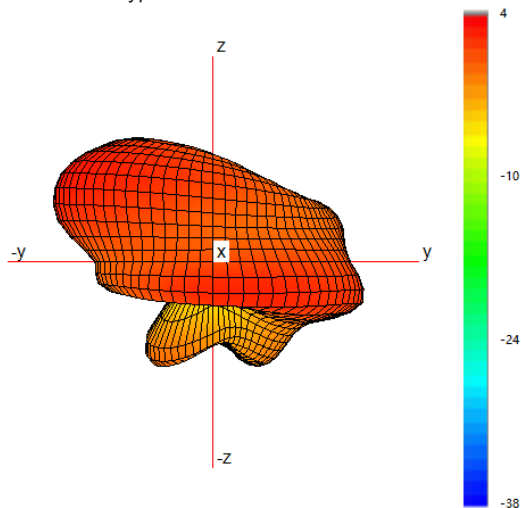
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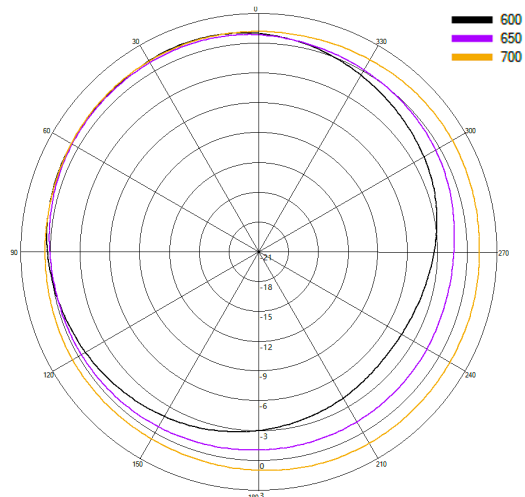
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3D Pattern Data in
Free Space Cell

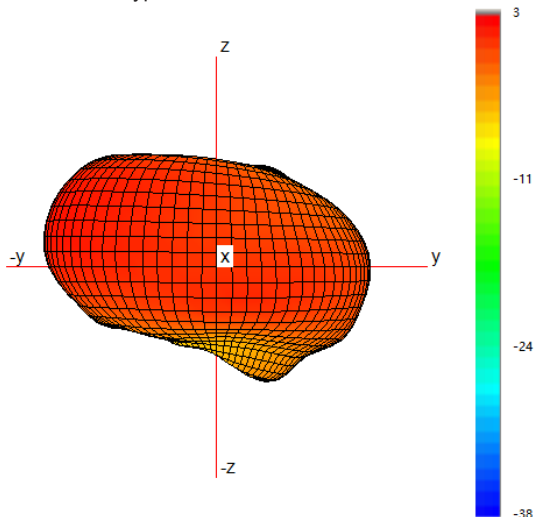
Typical 3D Pattern- Cell - 650 MHz



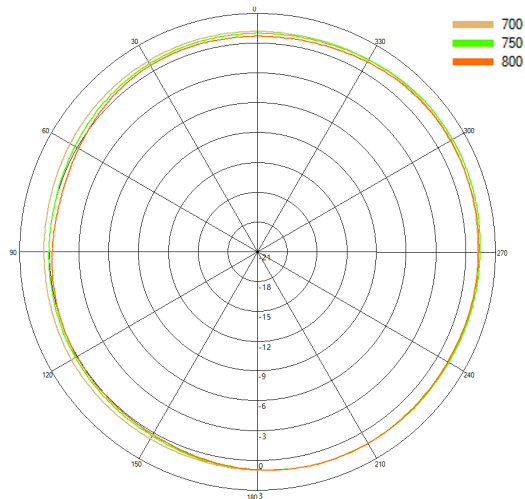
Typical H Plane- Cell - Patterns- 600-700MHz



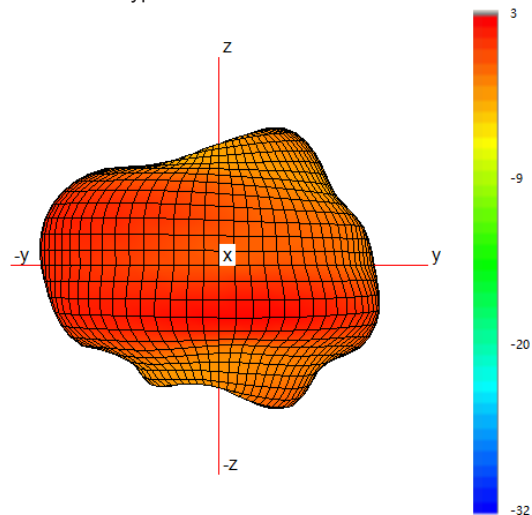
Typical 3D Pattern- Cell - 750 MHz



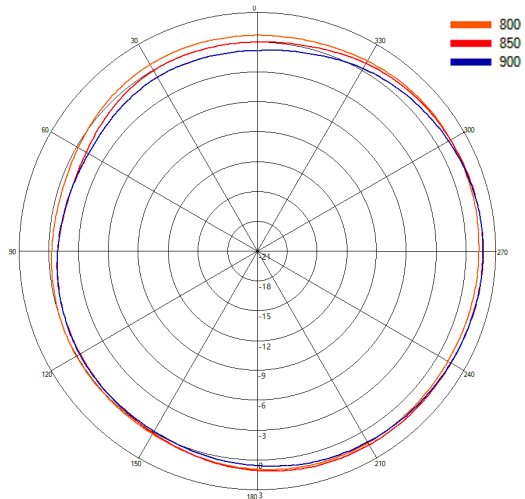
Typical H Plane- Cell - Patterns- 700-800MHz



Typical 3D Pattern- Cell - 850 MHz



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



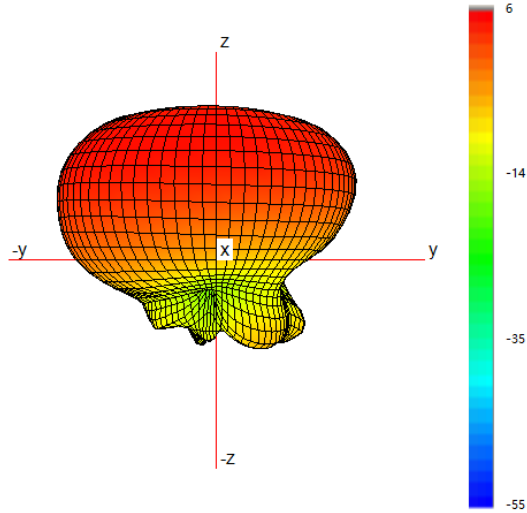
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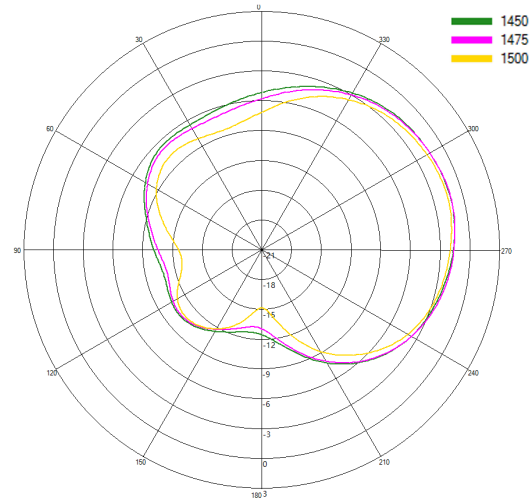
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3D Pattern Data in
Free Space Cell

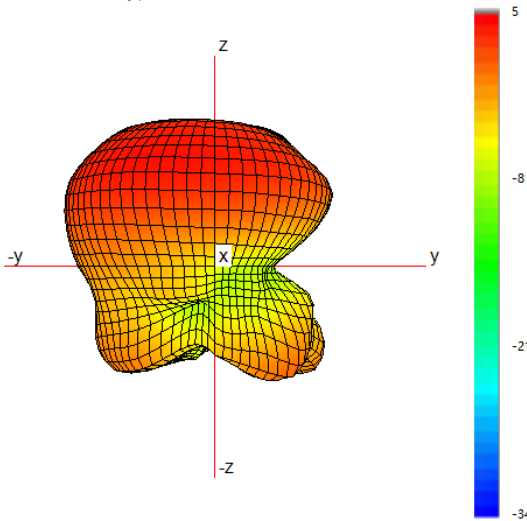
Typical 3D Pattern- Cell - 1475 MHz



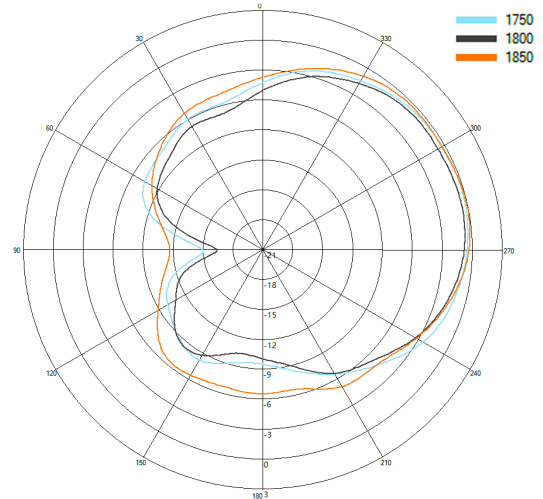
Typical H Plane- Cell- Patterns- 1450-1500 MHz



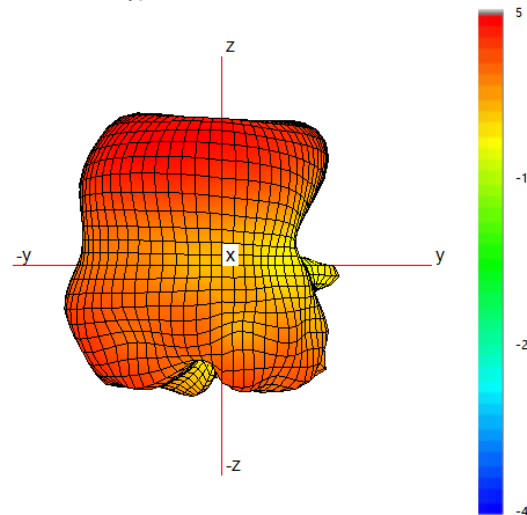
Typical 3D Pattern- Cell - 1800 MHz



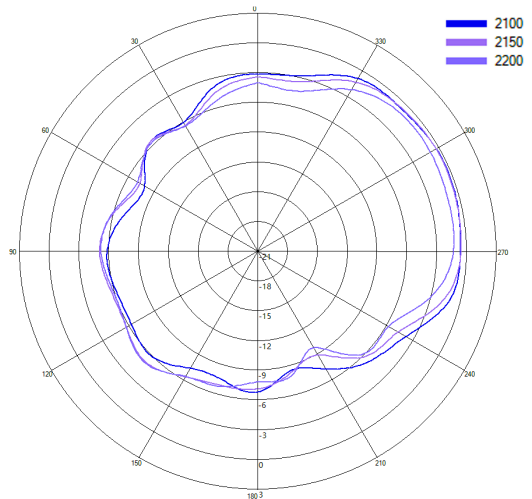
Typical H Plane- Cell - Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell - 2150 MHz



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



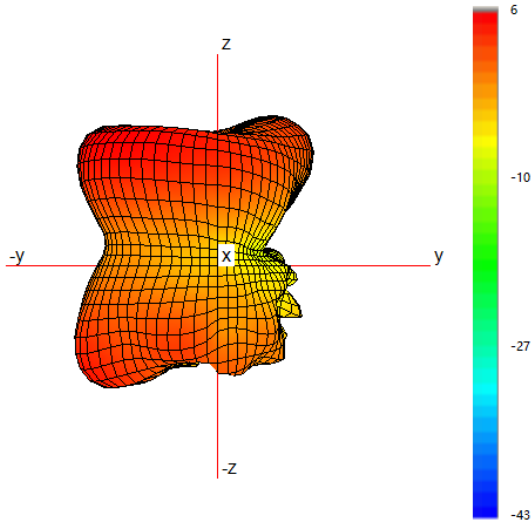
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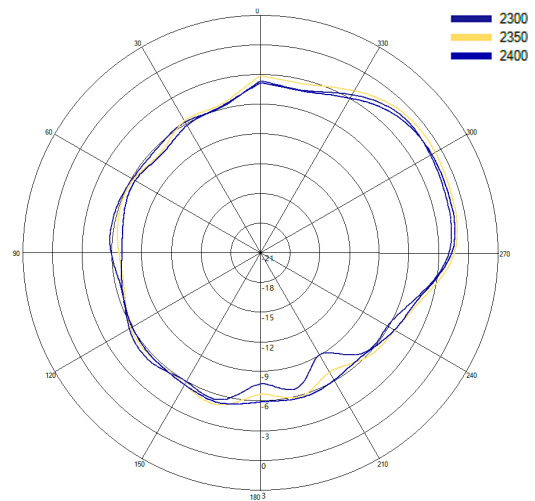
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3D Pattern Data in
Free Space Cell

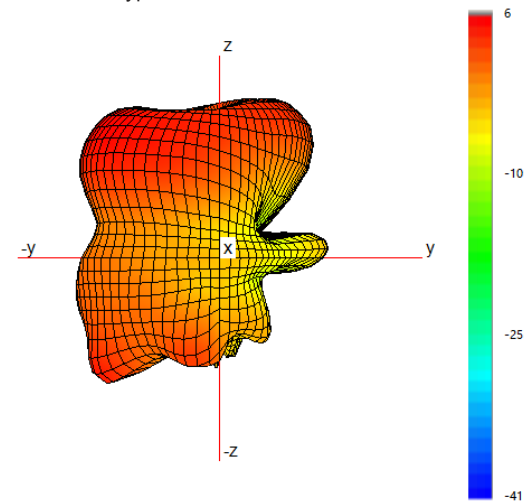
Typical 3D Pattern- Cell - 2350 MHz



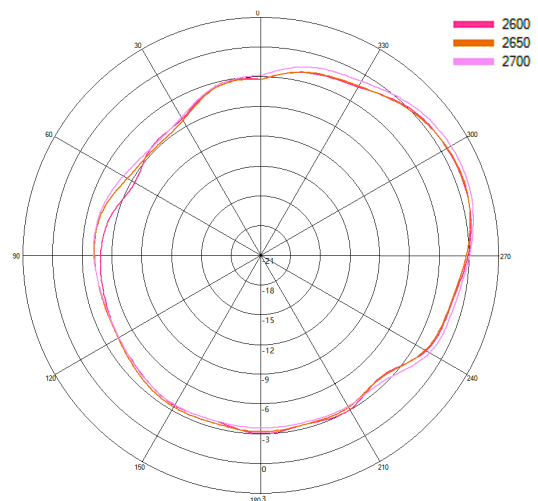
Typical H Plane- Cell - Patterns- 2300-2400 MHz



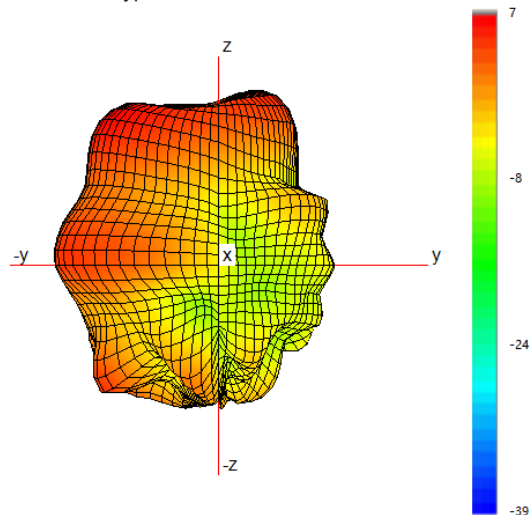
Typical 3D Pattern- Cell - 2650 MHz



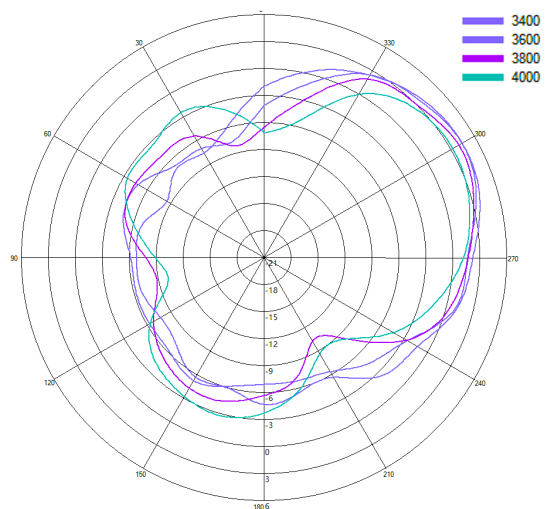
Typical H Plane- Cell - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell - 3600 MHz



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



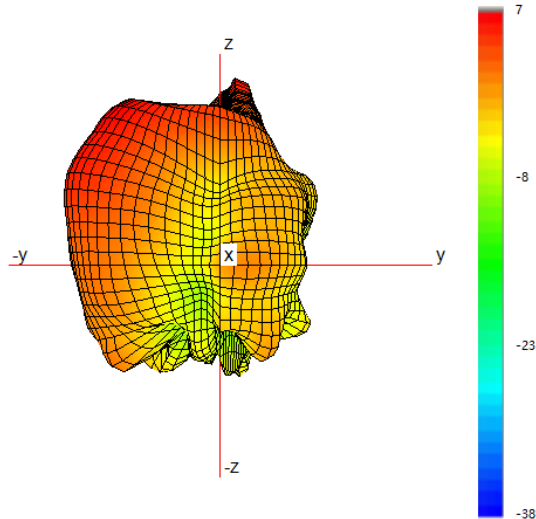
4G/5G Bracket Antenna

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3D Pattern Data in
Free Space Cell

Typical 3D Pattern- Cell - 4700 MHz



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

