

3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

LG-IN2937

PANORAMA ANTENNAS



- Low Profile 3x 2x2 MiMo 4G/5G
- 3x3 MiMo Dual Band WiFi 6e / 7
- GPS/GNSS L1 band
- Meets IK10 and IP69K

The LG-IN2937 has been developed to provide 3x 2x2 MiMo 4G/5G antenna systems covering 617-960/1427-6000MHz within a robust low profile package. Covering global cellular bands for future-proof performance, the antenna provides effective functionality for 3x 2x2 4G LTE and/or other 4G/5G modems requiring 6x cellular elements. The antenna also provides support for single band GPS/GNSS and 3x3 MiMo WiFi elements covering 2.4-7.2GHz (WiFi 6e/7).

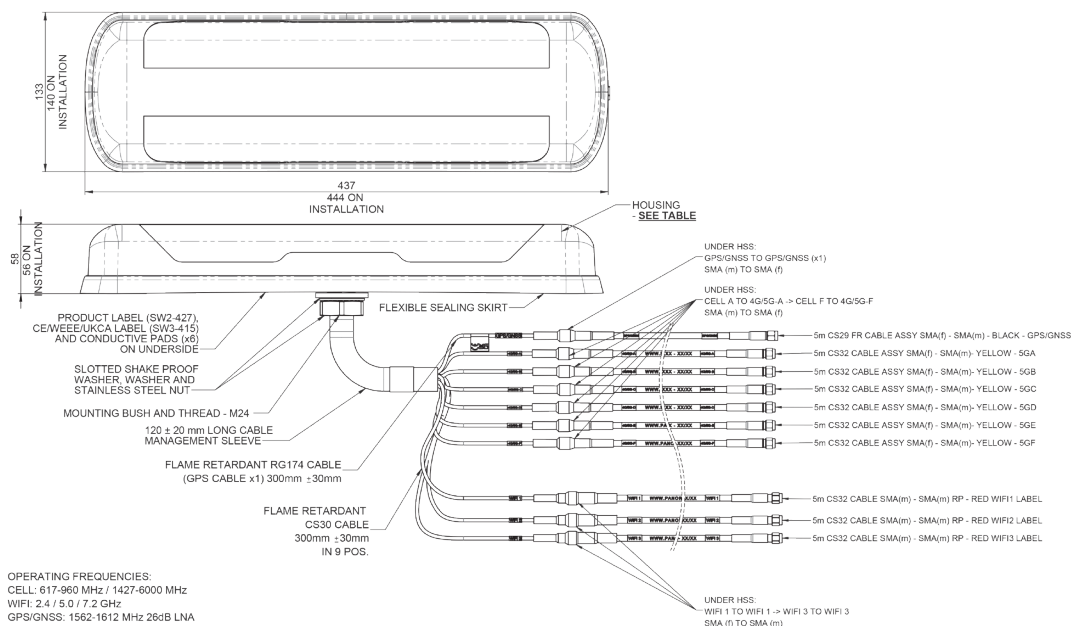
The integrated GPS/GNSS module supports L1 GPS/GNSS frequencies. This GPS module features advanced filtering for LTE B13/14 designed to minimise potential in band interference.

The antenna is designed to be panel mounted and can be fitted on a conductive or non-conductive panel. Supplied kitted with flame retardant low-loss CS29 and CS32 cables (Compliant to UN ECE R118) and a halogen free, flame retardant radome, the antenna is suitable for many environments and applications, including public safety and transportation.

The antenna is available with a black or white radome which meets IK10 for vandal resistance and IP69K for Ingress protection.

Technical Drawing

LG-IN2937 Shown



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Product Data

Part No.

LG-IN2937-W

LG-IN2937

Electrical Data

Frequency Range (MHz)	4G/5G Elements	6x 617-960 / 1427-6000	
	WiFi Elements	3x 2.4/5.1-7.2GHz	
Typical VSWR*	All Elements	<3:1 (4G/5G elements) / <2:1 (WiFi Elements)	
Peak Gain: Isotropic : (dBi)	4G/5G Elements	617-960MHz	5
		1427-4200MHz	9
		4400-6000MHz	8
	WiFi Elements	2.4 GHz	7
		5.1-7.2GHz	9
Typical Efficiency **	4G/5G Elements	617-960MHz	47%
		1427-2170MHz	55%
		2300-4200MHz	59%
		4400-6000MHz	54%
	WiFi Elements	2.4-7.2GHz	49%
Nominal Impedance			50Ω

GPS/GNSS Data

Frequency Range (MHz)	1559-1612
VSWR	<2.5:1
Gain: LNA	26dB
Out of band rejection	>40dB (@ > +/- 100MHz f)
Typical Noise Figure	2.7 dB
Rejection @787MHz	>50 dB
Voltage /Current	3 - 5V DC 17mA (typical)

Mechanical Data

Dimensions (mm)	Height	55 (2.1")
	Length	437 (17.2")
	Width	133 (5.2")
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)
Colour		White / [Black]
Ingress Protection / Impact Resistance		IP69K / IK10

Mounting Data

Mounting type	Panel mount
Max panel thickness (mm)	7 (0.27")
Mounting hole (mm)	25 (1")

Cable Data		4G/5G	WiFi	GPS/GNSS
All Cables	Type	CS32 (UN ECE R118)		FR CS29 (UN ECE R118)
	Diameter (mm)	5 (0.2")		5 (0.2")
	Length (m)	5 (16.4')		

Terminations

4G/5G	6x SMA Plug (m)
WiFi	3x Rev. Pol. SMA Plug (m)
GPS/GNSS	1x SMA Plug (m)

*Across 90% of relevant bands for LG-IN2937 measured on 600x600mm (2'x2') ground plane without additional cable.

† Efficiency stated is average for all elements and peak gain is highest measured level from LG-IN2937 measured on 600x600mm (2'x2') ground plane without additional cable.

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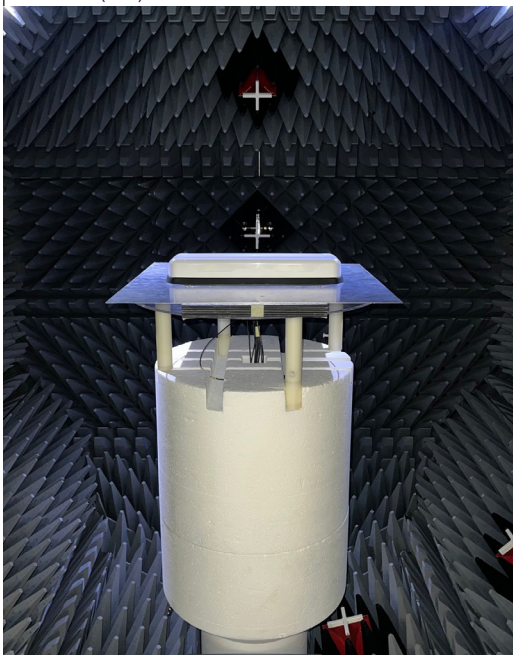
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Electrical Data Cell -
Ground Plane

Measurement Conditions

LG-IN2937 measured on 600x600mm (2'x2') ground plane
with 0.5m (1.6') of CS30 Cable



4G/5G Antennas

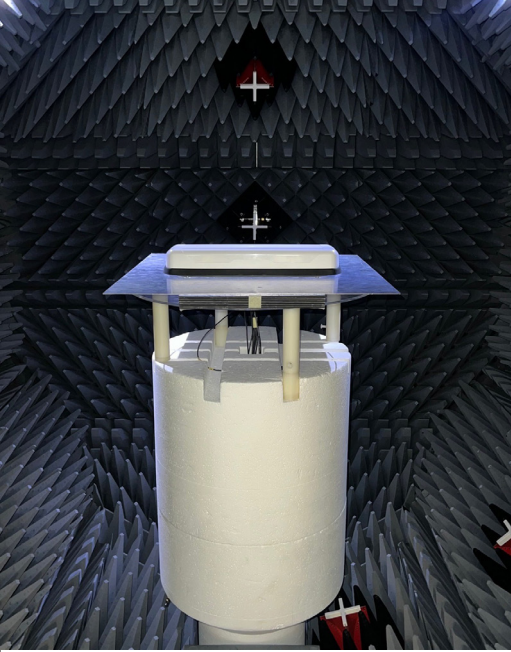
Frequency Range (MHz)	LTE Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
617-698	71, 105	Cell A	3.6	40
		Cell B	2.2	38
		Cell C	4.4	40
		Cell D	2.2	39
699-798	12,13, 14 17,28	Cell A	3.9	49
		Cell B	2.2	40
		Cell C	4.5	43
		Cell D	2.7	40
807- 862	5,19,20,26,27	Cell A	3.9	48
		Cell B	5.0	41
		Cell C	4.3	44
		Cell D	4.0	40
880-960	8	Cell A	4.7	54
		Cell B	5.0	55
		Cell C	3.7	57
		Cell D	5.8	55
1427-1518	11, 21, 74,75,76	Cell A	4.5	55
		Cell B	4.1	52
		Cell C	4.9	55
		Cell D	4.3	54
1710-1920	2,3,4,9,25,35,39,66	Cell A	5.6	48
		Cell B	5.3	46
		Cell C	6.2	48
		Cell D	5.1	47
1920-2170	1,23	Cell A	7.3	58
		Cell B	5.9	54
		Cell C	7.2	58
		Cell D	5.7	54
2300-2400	30,40	Cell A	6.3	64
		Cell B	5.2	57
		Cell C	6.4	63
		Cell D	5.5	57
2496-2690	7,38,41	Cell A	5.8	53
		Cell B	6.2	49
		Cell C	6.3	52
		Cell D	5.1	49
3300-4200	22,42,43,48,77,78	Cell A	7.4	57
		Cell B	7.4	56
		Cell C	7.5	57
		Cell D	7.4	56
4400-5000	79	Cell A	7.3	53
		Cell B	6.8	49
		Cell C	7.0	53
		Cell D	7.0	50

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Electrical Data Cell -
Ground Plane

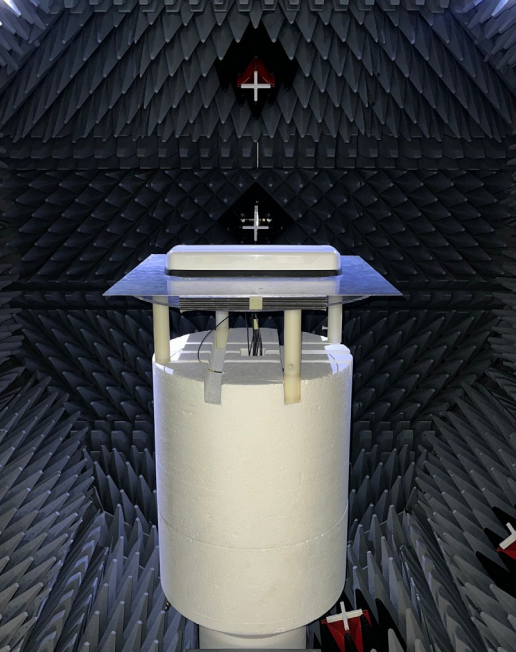
Measurement Conditions	4G/5G Antennas				
LG-IN2937 measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS30 Cable	Frequency Range (MHz)	LTE Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71, 105	Cell E	2.2	48
			Cell F	2.6	47
	699-798	12,13, 14 17,28	Cell E	4.0	53
			Cell F	3.2	52
	807- 862	5,19,20,26,27	Cell E	4.2	52
			Cell F	3.4	49
	880-960	8	Cell E	4.0	54
			Cell F	3.6	52
	1427-1518	11, 21, 74,75,76	Cell E	4.9	59
			Cell F	5.2	58
	1710-1920	2,3,4,9,25,35,39,66	Cell E	6.0	60
			Cell F	6.1	60
	1920-2170	1,23	Cell E	6.7	66
			Cell F	6.5	65
	2300-2400	30,40	Cell E	7.7	71
			Cell F	6.9	71
	2496-2690	7,38,41	Cell E	7.3	62
			Cell F	6.9	62
	3300-4200	22,42,43,48,77,78	Cell E	9.1	66
			Cell F	8.6	66
	4400-5000	79	Cell E	8.7	59
			Cell F	8.0	59

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Electrical Data WiFi - Ground Plane

Measurement Conditions	WiFi Antennas				
LG-IN2937 measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS30 Cable	Frequency Range (MHz)	WiFi Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	2396-2485	2.4GHz	WiFi 1	7.1	61
			WiFi 2	7.2	62
			WiFi 3	5.6	61
	5150-5250	UNII-1	WiFi 1	7.1	45
			WiFi 2	7.5	46
			WiFi 3	8.9	57
	5250-5350	UNII-2A	WiFi 1	8.3	46
			WiFi 2	8.1	47
			WiFi 3	8.5	57
	5350-5470	UNII-2B	WiFi 1	8.8	47
			WiFi 2	8.8	48
			WiFi 3	8.6	54
	5470-5725	UNII-2C	WiFi 1	8.6	48
			WiFi 2	8.8	49
			WiFi 3	9.0	48
	5725-5850	UNII-3	WiFi 1	9.2	52
			WiFi 2	8.9	52
			WiFi 3	8.3	52
	5850-5925	UNII-4	WiFi 1	9.1	51
			WiFi 2	9.1	52
			WiFi 3	8.3	50
	5925-6425	UNII-5	WiFi 1	8.9	48
			WiFi 2	9.1	50
			WiFi 3	8.2	49
	6425-6525	UNII-6	WiFi 1	8.5	46
			WiFi 2	8.2	47
			WiFi 3	5.5	49
	6525-6875	UNII-7	WiFi 1	7.5	41
			WiFi 2	7.8	43
			WiFi 3	5.3	46
	6875-7125	UNII-8	WiFi 1	6.1	38
			WiFi 2	6.3	39
			WiFi 3	4.6	45

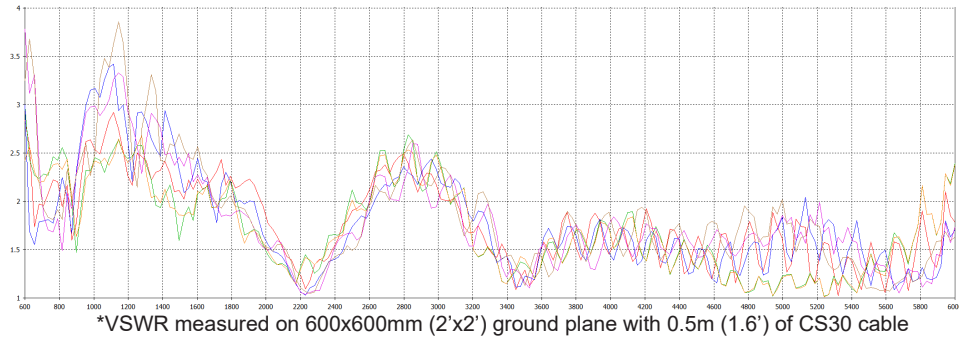
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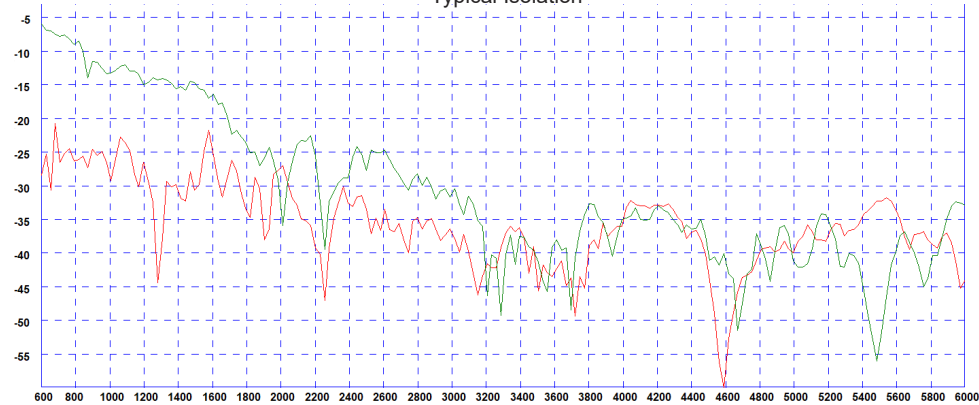
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Electrical Data Cell -
Ground Plane

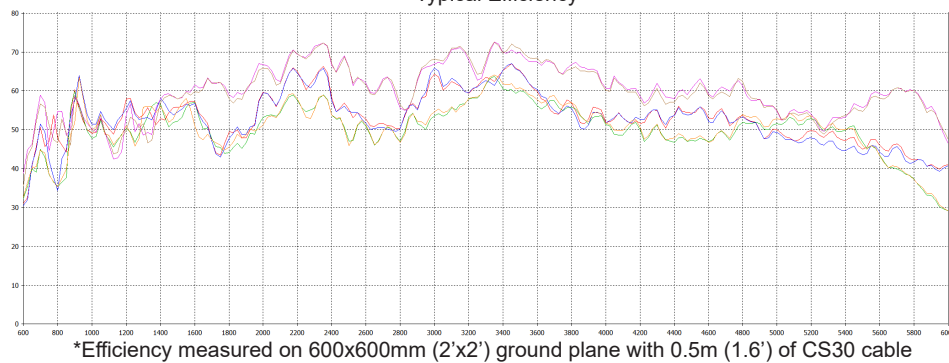
Typical VSWR*



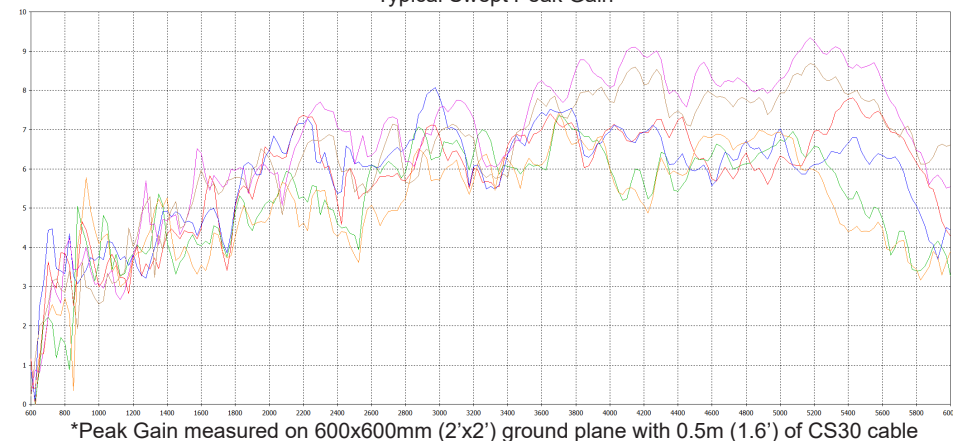
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



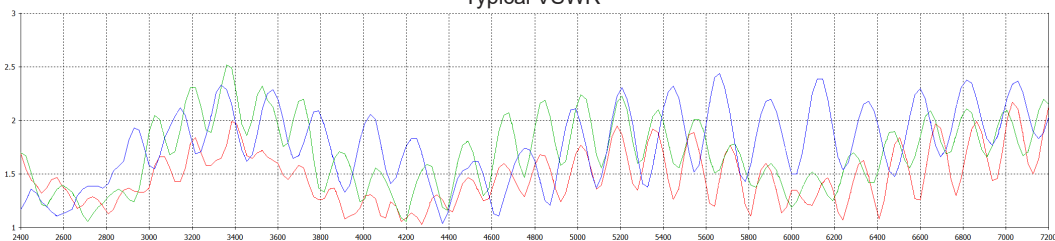
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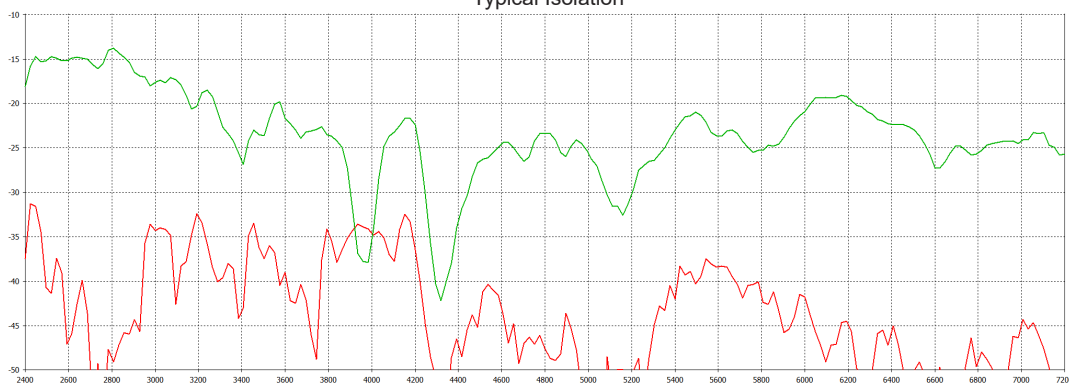
Electrical Data WiFi - Ground Plane

Typical VSWR*



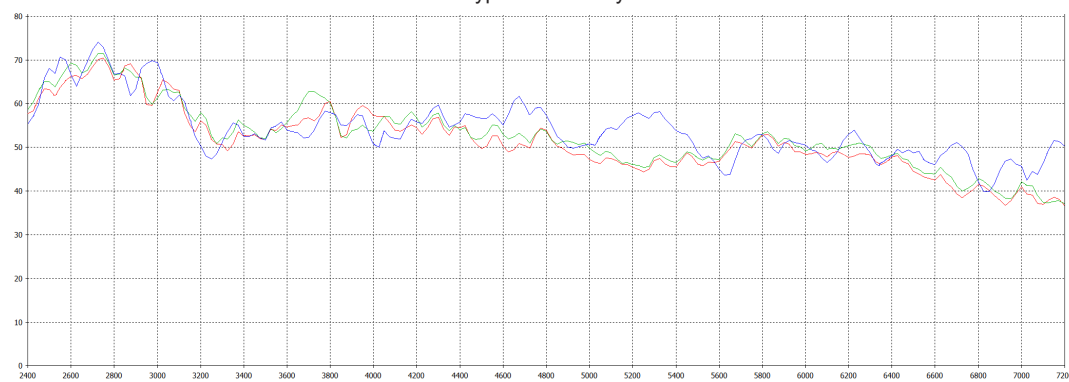
*VSWR measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS30 cable

Typical Isolation*



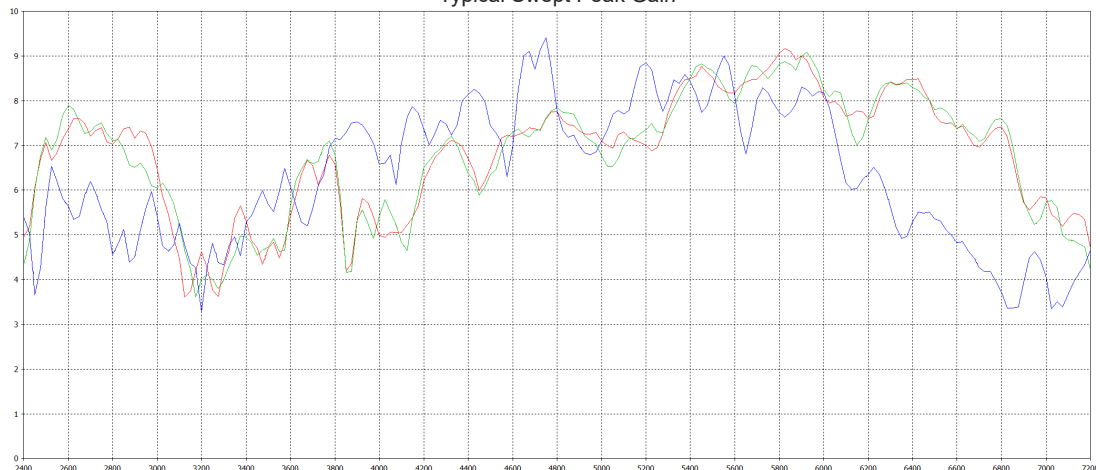
*Isolation measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS30 cable. Green trace = best case isolation between element pairs. Red trace - worst case isolation between element pairs.

Typical Efficiency*



*Efficiency measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS30 cable

Typical Swept Peak Gain*



*Peak Gain measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS30 cable

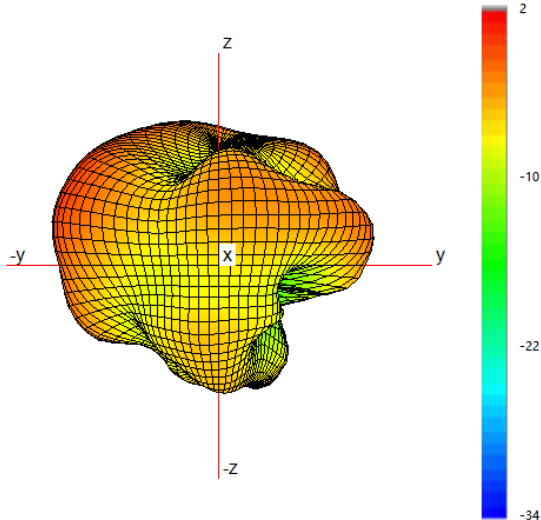
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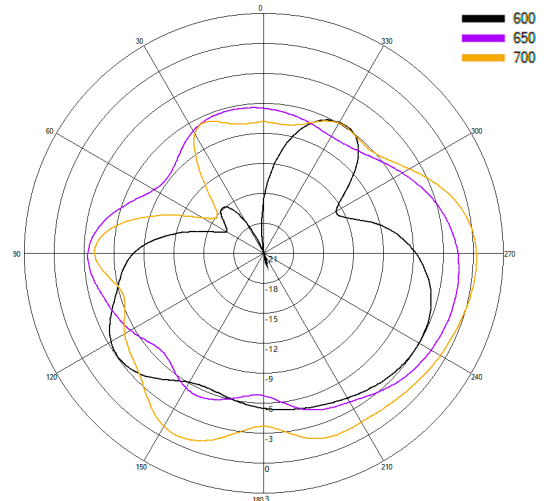
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3D Pattern Data on
Ground Plane Cell A

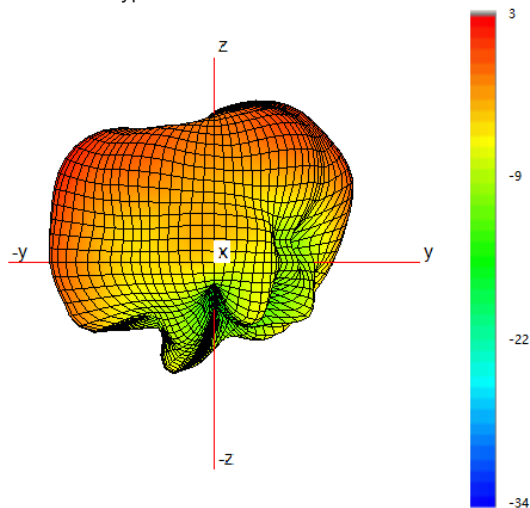
Typical 3D Pattern- Cell A - 650 MHz



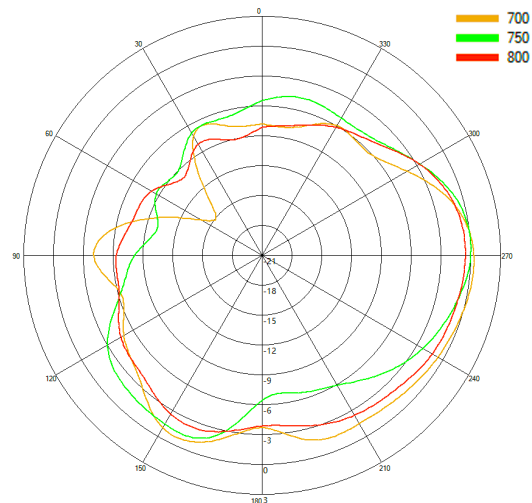
Typical H Plane- Cell A - Patterns- 600-700MHz



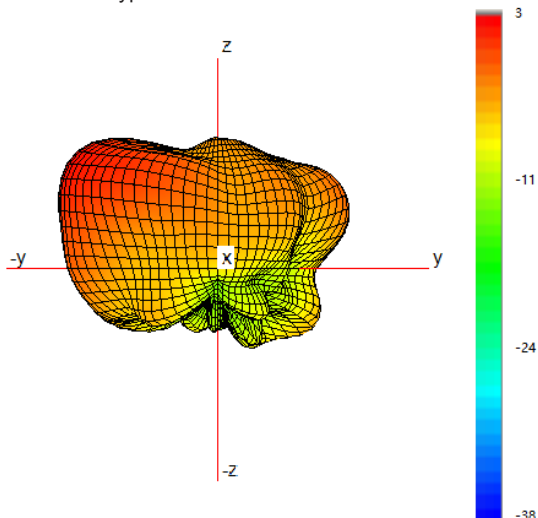
Typical 3D Pattern- Cell A - 750 MHz



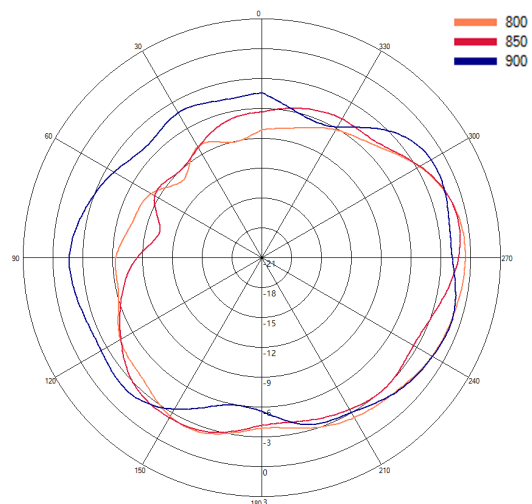
Typical H Plane- Cell A - Patterns- 700-800MHz



Typical 3D Pattern- Cell A - 850 MHz



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



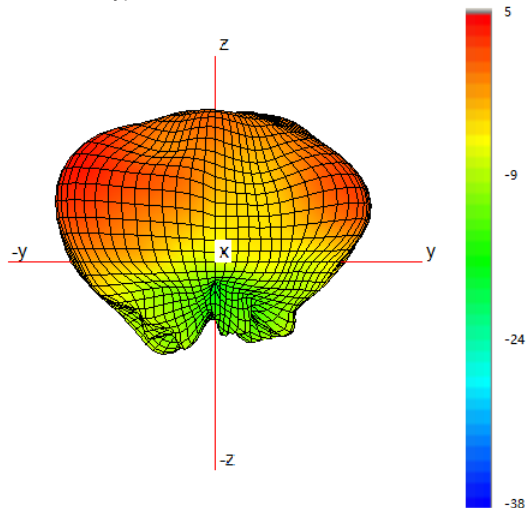
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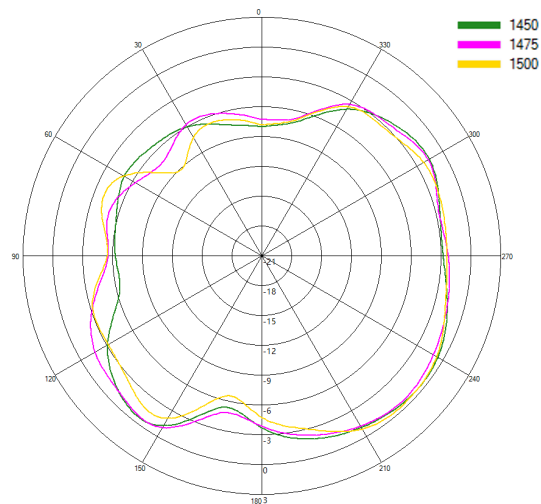
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3D Pattern Data on
Ground Plane Cell A

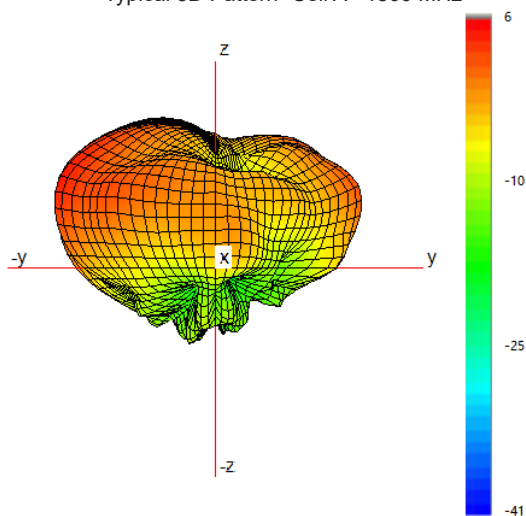
Typical 3D Pattern- Cell A - 1475 MHz



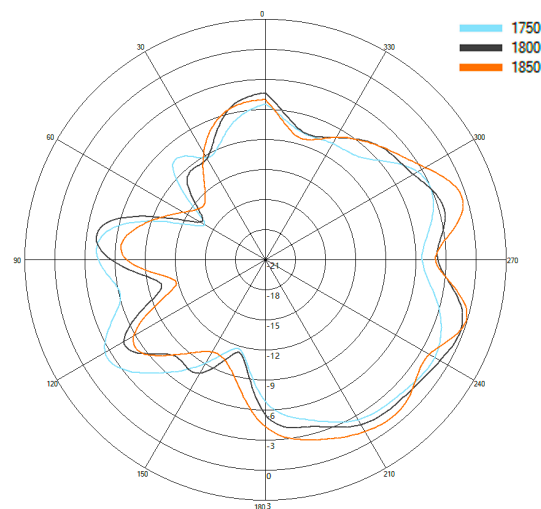
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



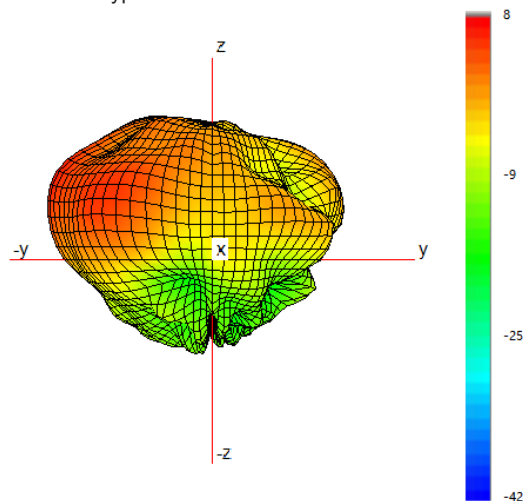
Typical 3D Pattern- Cell A - 1800 MHz



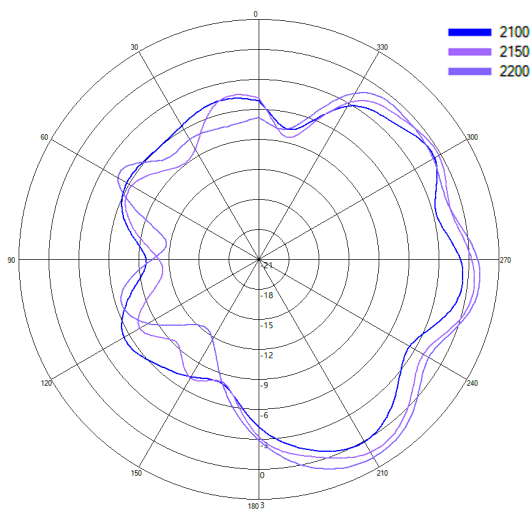
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



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



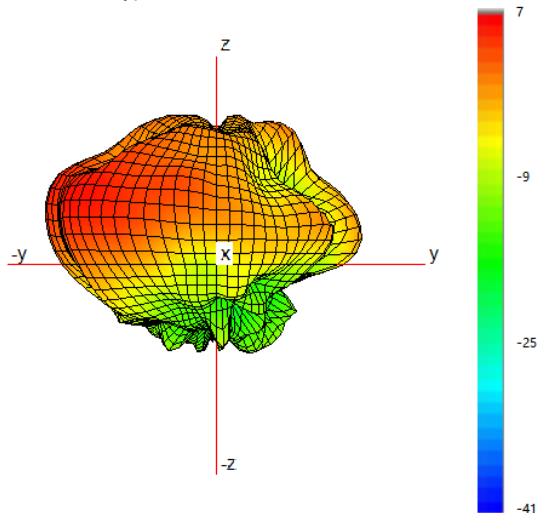
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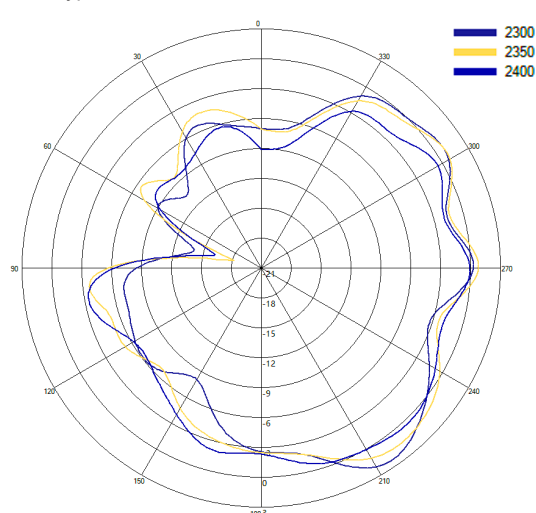
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3D Pattern Data on
Ground Plane Cell A

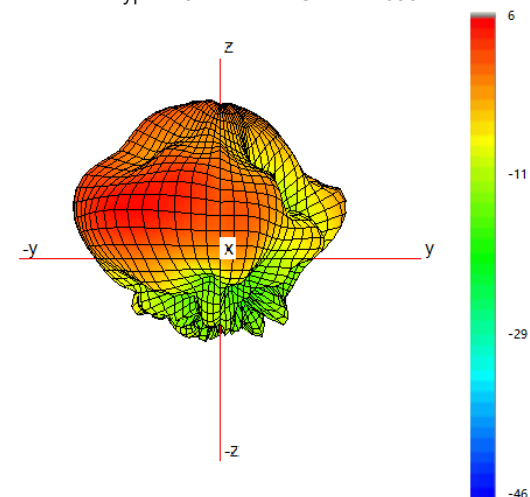
Typical 3D Pattern- Cell A - 2350 MHz



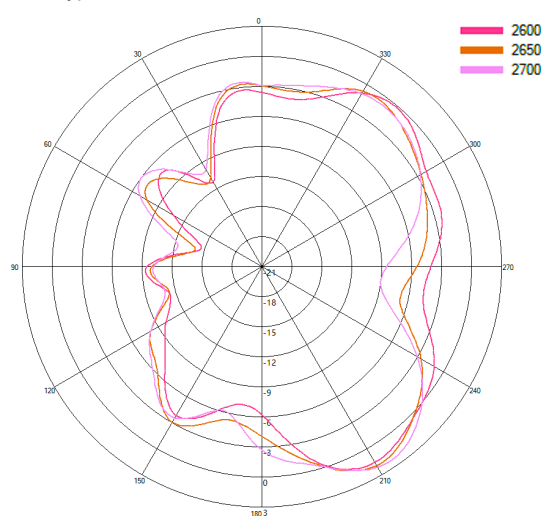
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



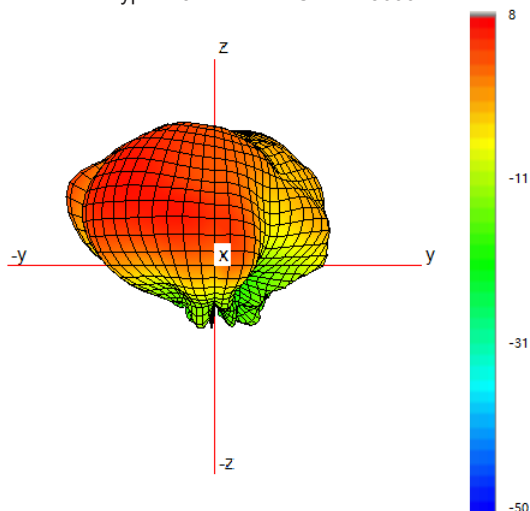
Typical 3D Pattern- Cell A - 2650 MHz



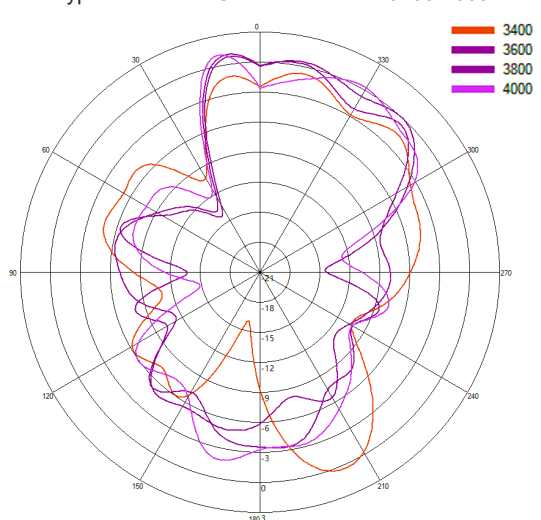
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



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



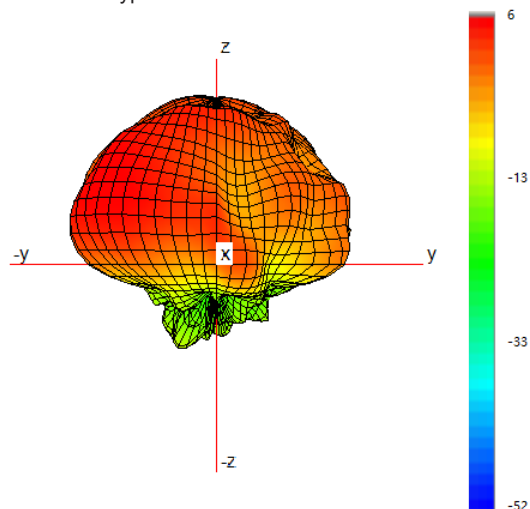
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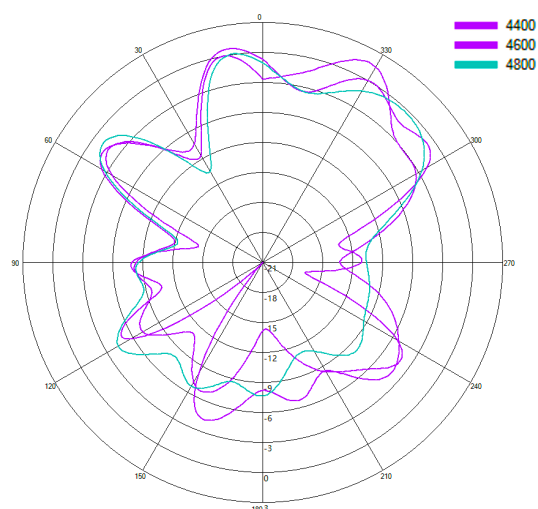
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3D Pattern Data on
Ground Plane Cell A

Typical 3D Pattern- Cell A - 4700 MHz



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



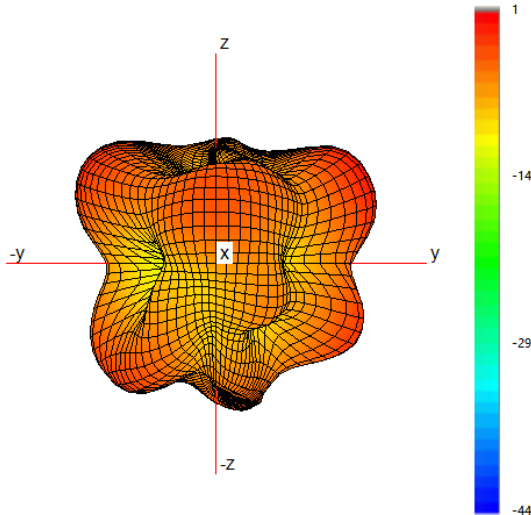
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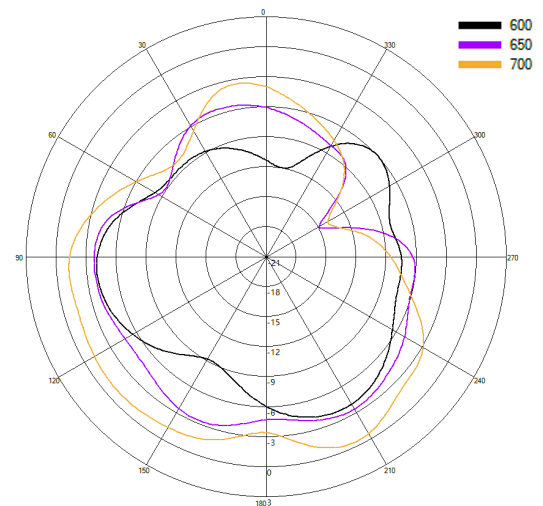
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3D Pattern Data on
Ground Plane Cell B

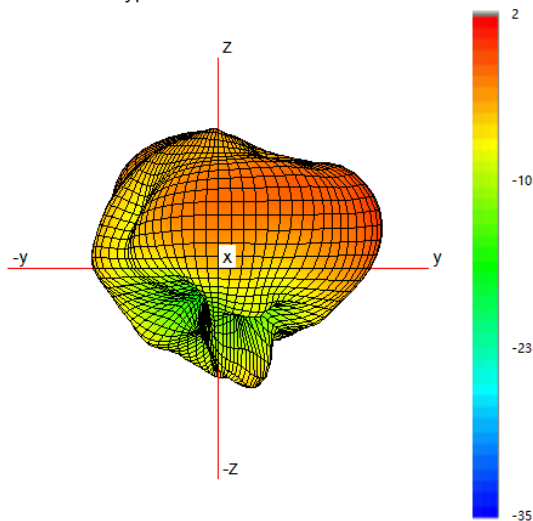
Typical 3D Pattern- Cell B - 650 MHz



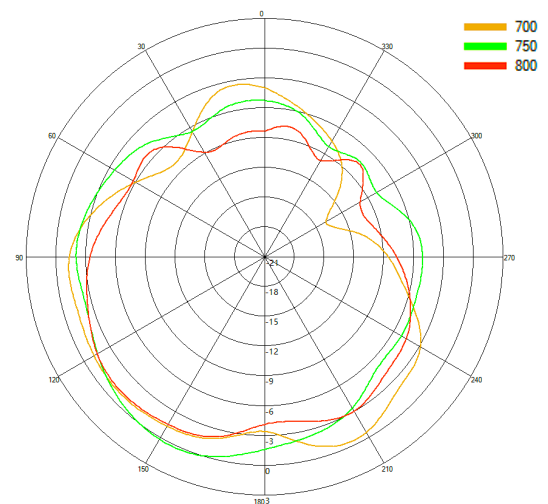
Typical H Plane- Cell B - Patterns- 600-700MHz



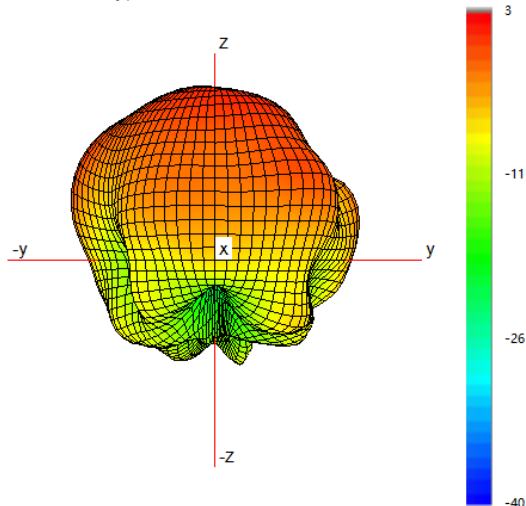
Typical 3D Pattern- Cell B - 750 MHz



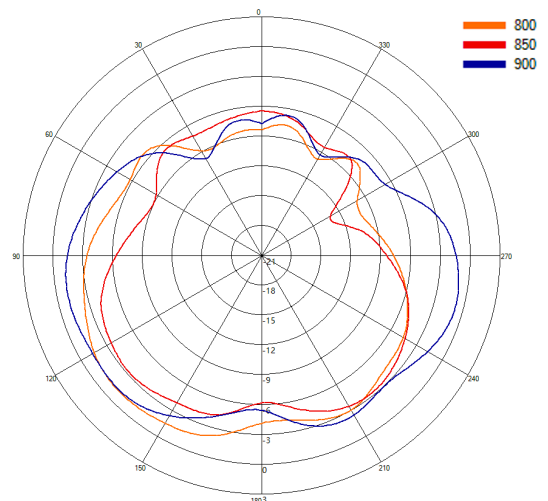
Typical H Plane- Cell B - Patterns- 700-800MHz



Typical 3D Pattern- Cell B - 850 MHz



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



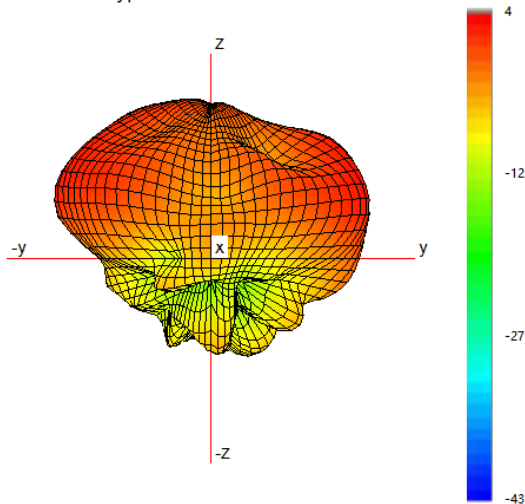
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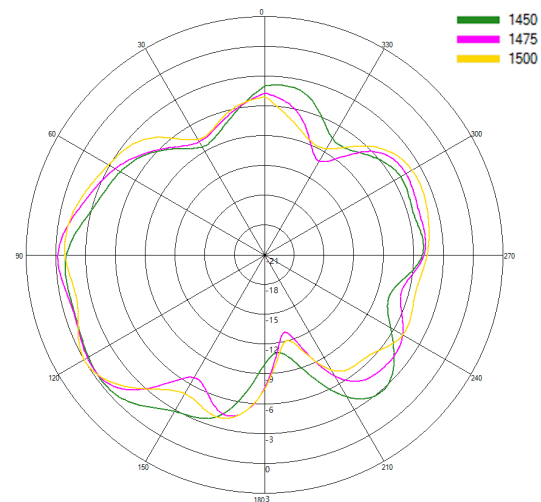
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3D Pattern Data on
Ground Plane Cell B

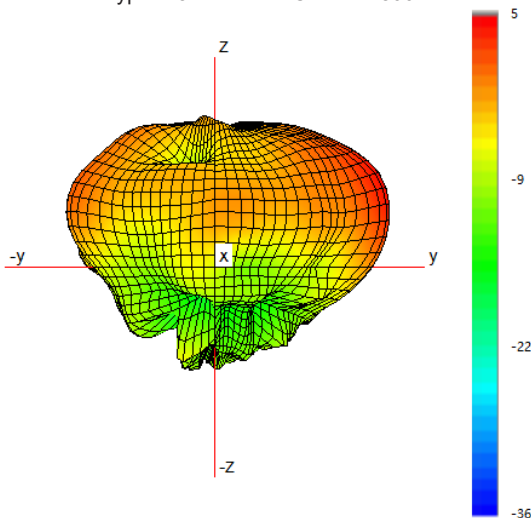
Typical 3D Pattern- Cell B - 1475 MHz



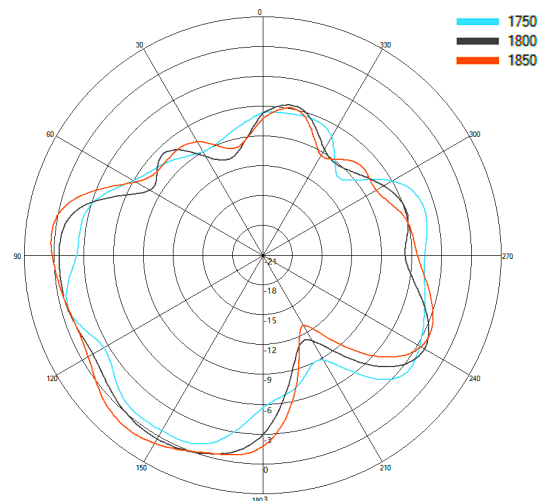
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



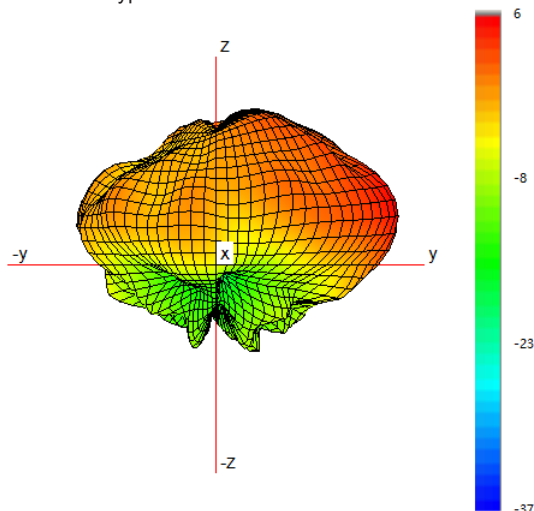
Typical 3D Pattern- Cell B - 1800 MHz



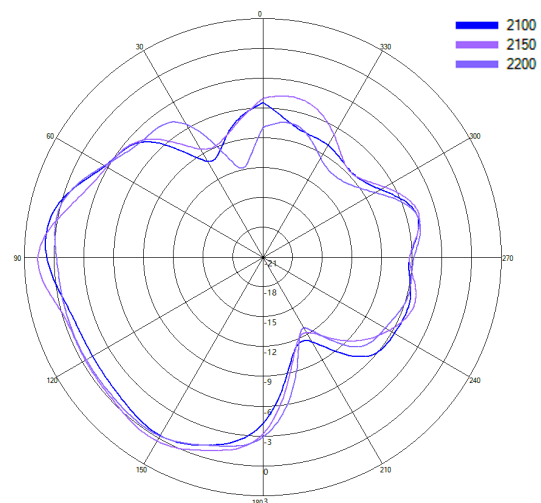
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



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



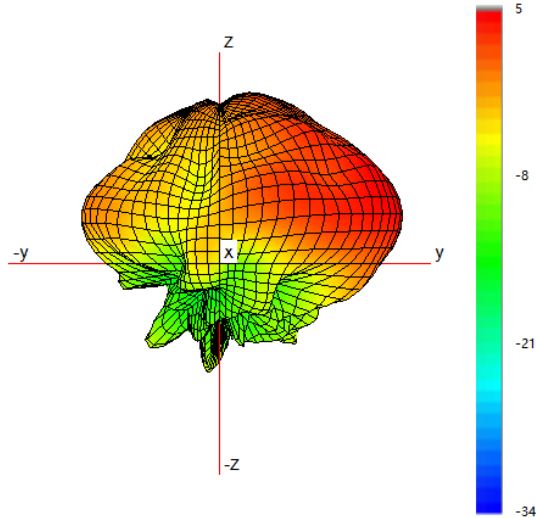
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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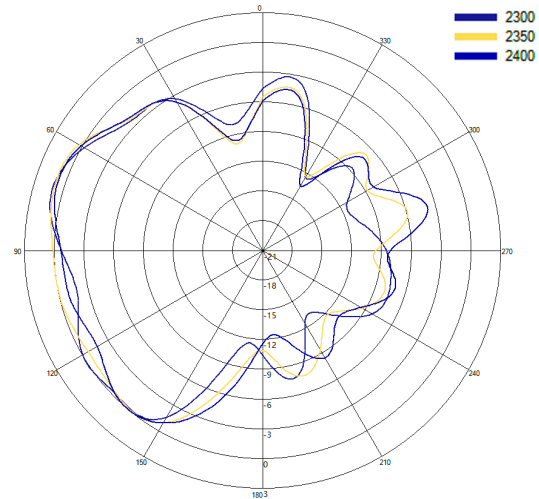
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3D Pattern Data on
Ground Plane Cell B

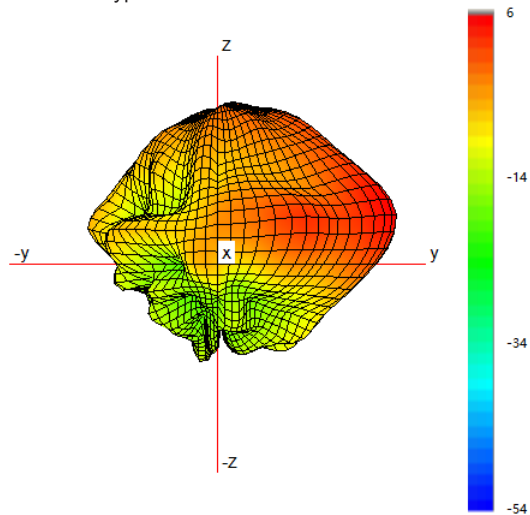
Typical 3D Pattern- Cell B - 2350 MHz



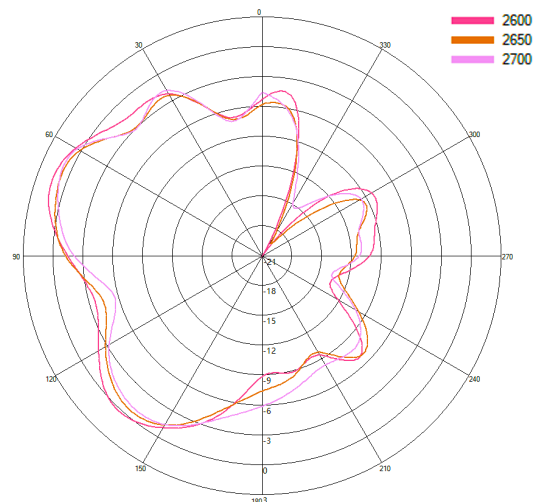
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



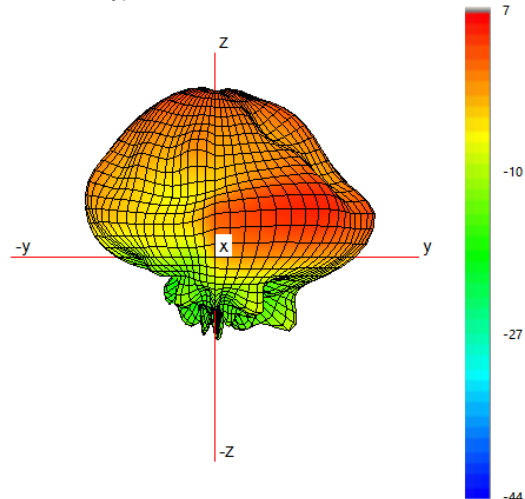
Typical 3D Pattern- Cell B - 2650 MHz



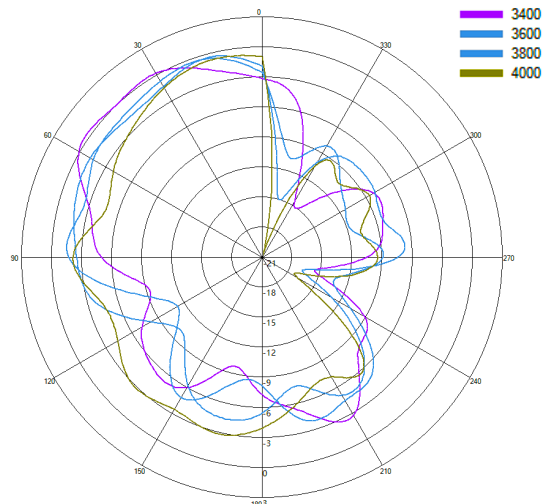
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



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



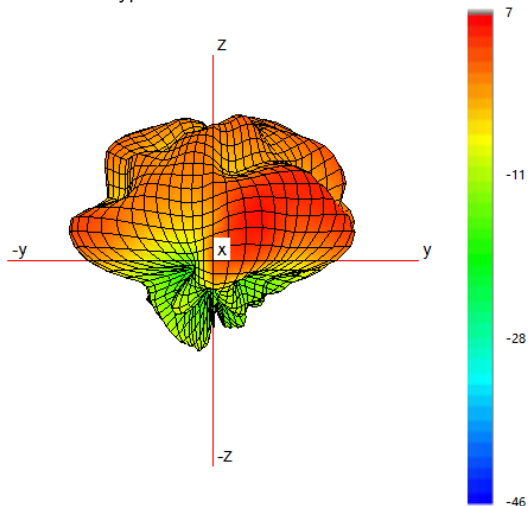
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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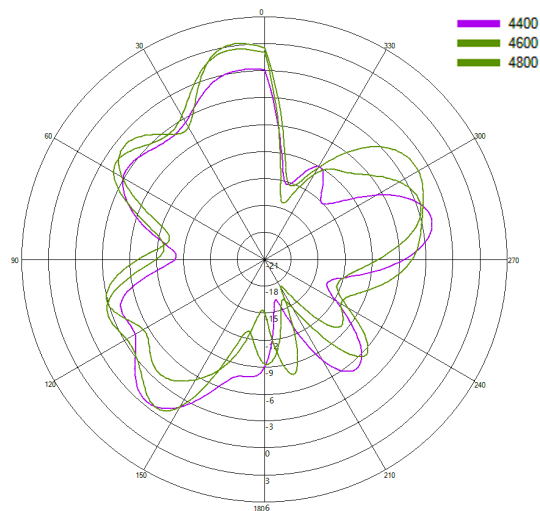
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3D Pattern Data on
Ground Plane Cell B

Typical 3D Pattern- Cell B - 4700 MHz



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



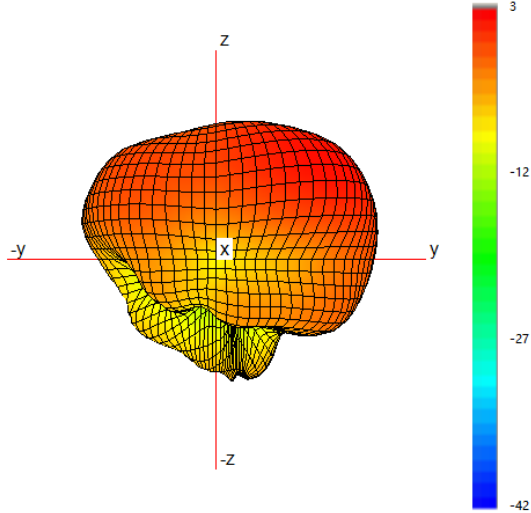
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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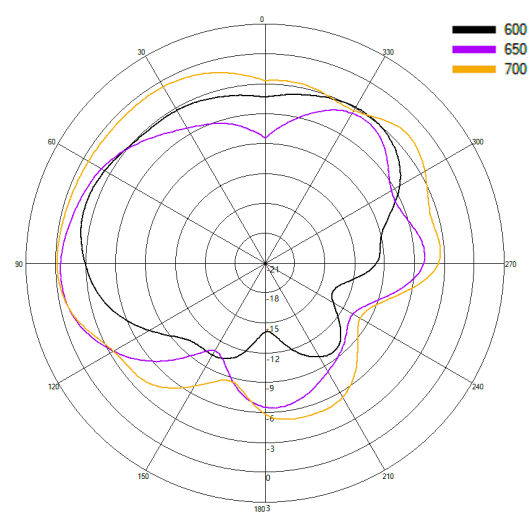
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3D Pattern Data on
Ground Plane Cell C

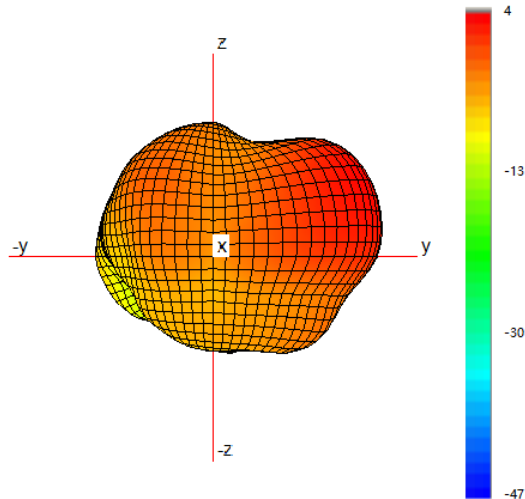
Typical 3D Pattern- Cell C - 650 MHz



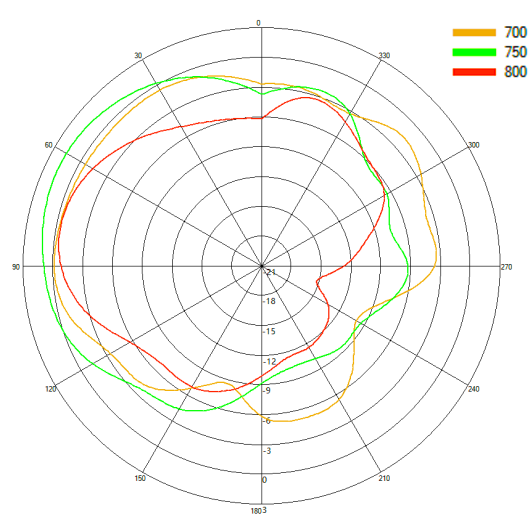
Typical H Plane- Cell C - Patterns- 600-700MHz



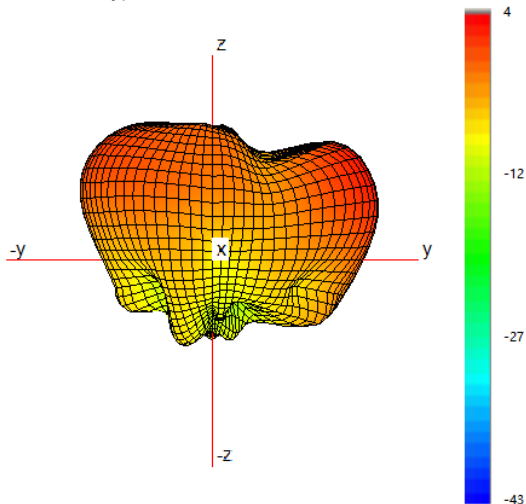
Typical 3D Pattern- Cell C - 750 MHz



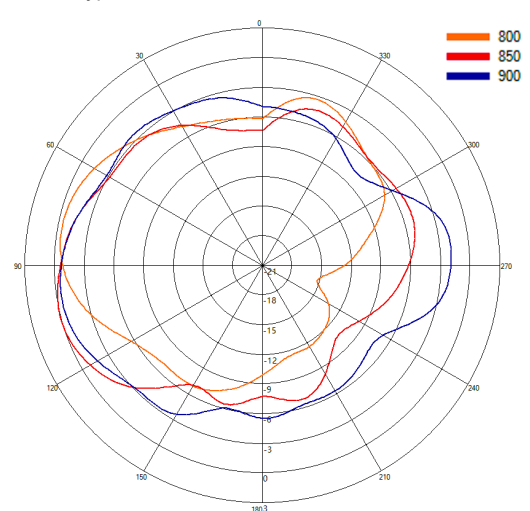
Typical H Plane- Cell C - Patterns- 700-800MHz



Typical 3D Pattern- Cell C - 850 MHz



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



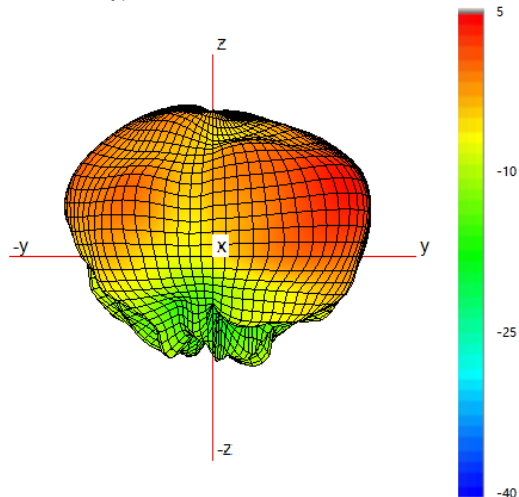
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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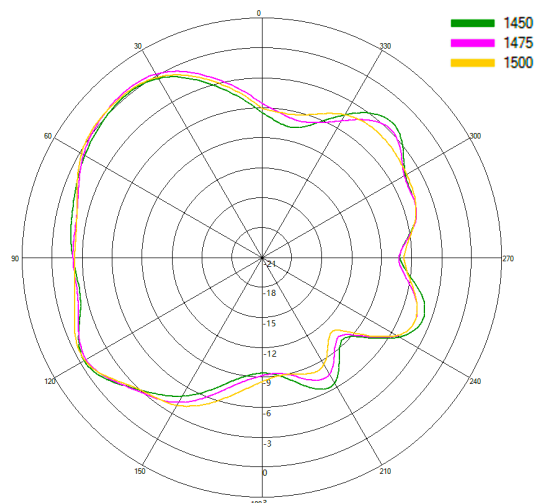
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3D Pattern Data on
Ground Plane Cell C

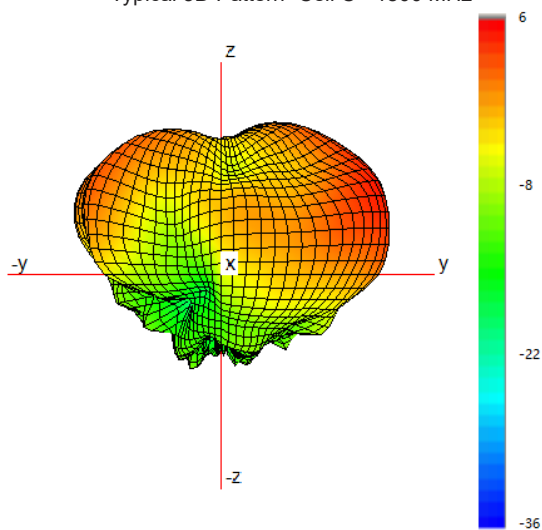
Typical 3D Pattern- Cell C - 1475 MHz



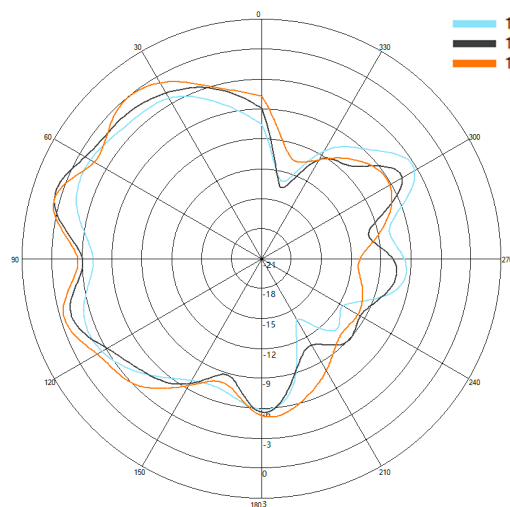
Typical H Plane- Cell C- Patterns- 1450-1500 MHz



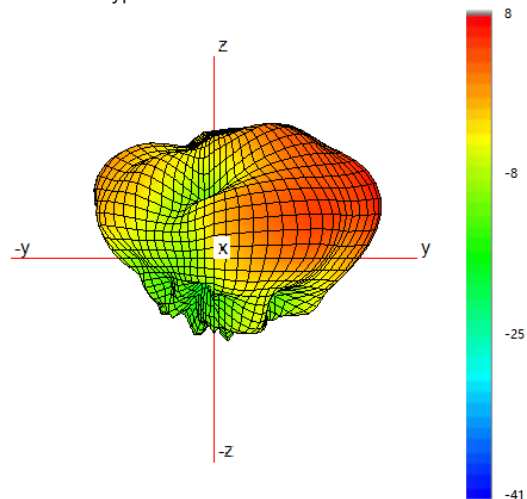
Typical 3D Pattern- Cell C - 1800 MHz



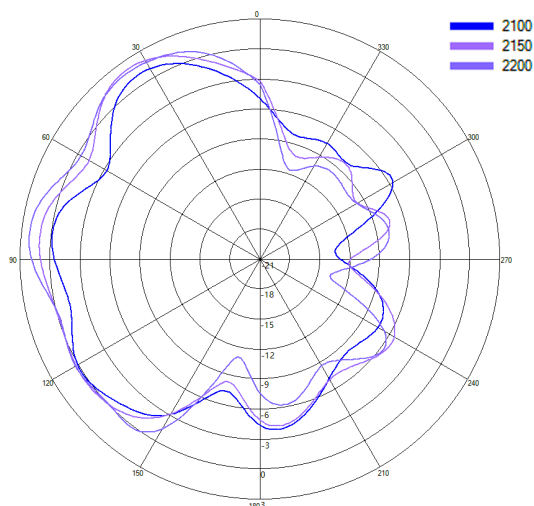
Typical H Plane- Cell C- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell C - 2150 MHz



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



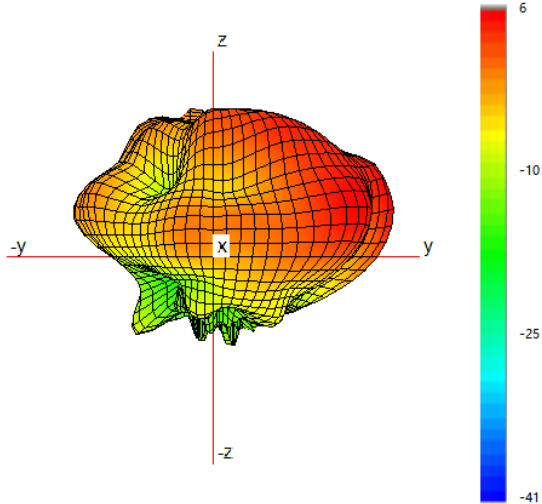
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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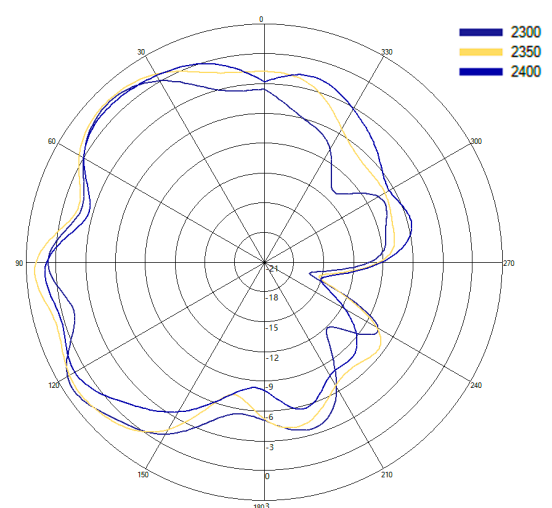
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3D Pattern Data on
Ground Plane Cell C

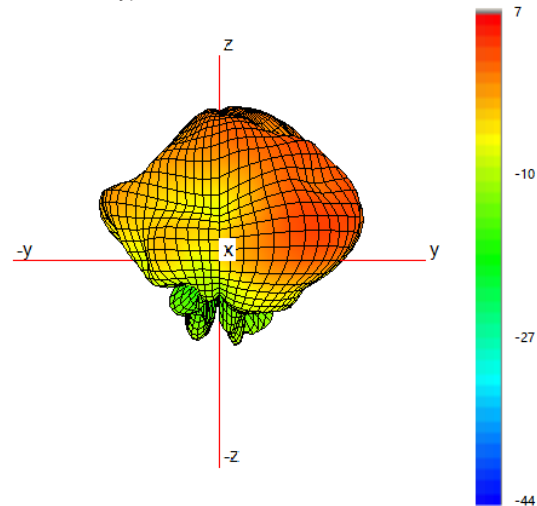
Typical 3D Pattern- Cell C - 2350 MHz



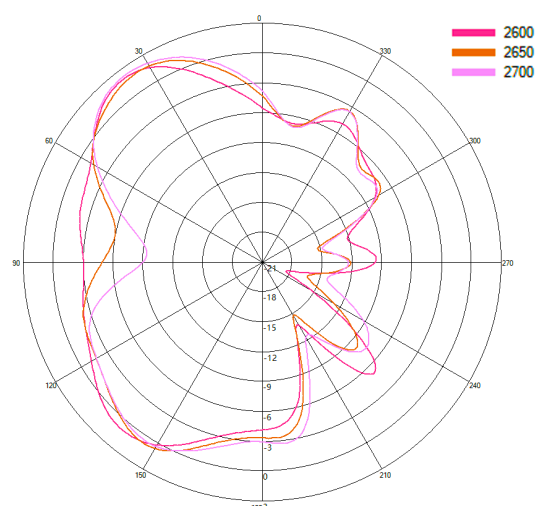
Typical H Plane- Cell C - Patterns- 2300-2400 MHz



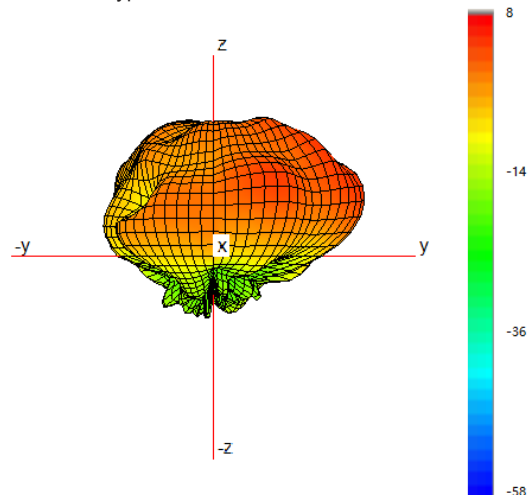
Typical 3D Pattern- Cell C - 2650 MHz



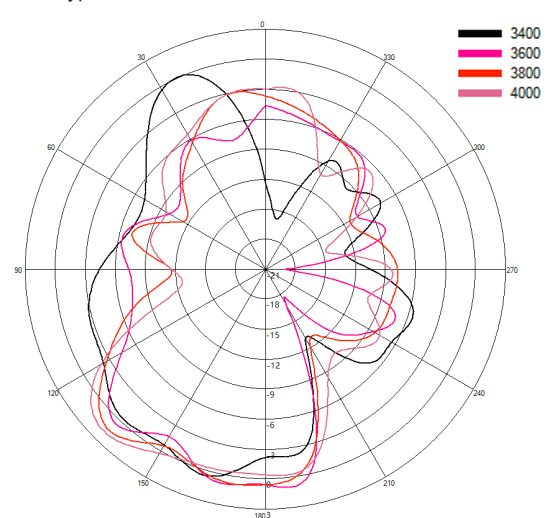
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell C - 3600 MHz



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



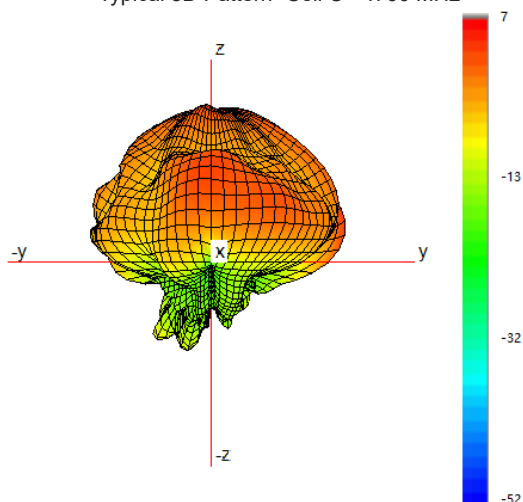
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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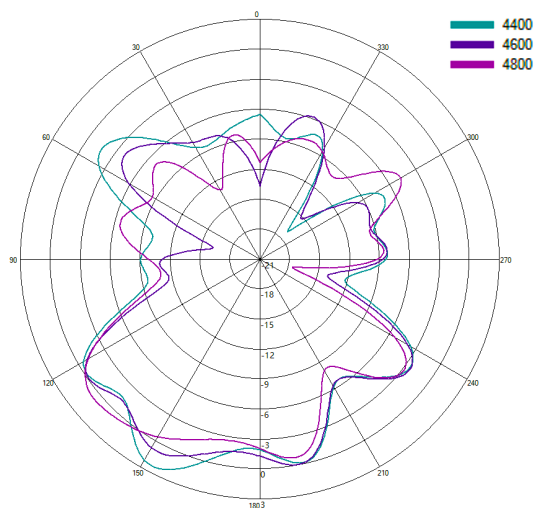
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3D Pattern Data on
Ground Plane Cell C

Typical 3D Pattern- Cell C - 4700 MHz



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



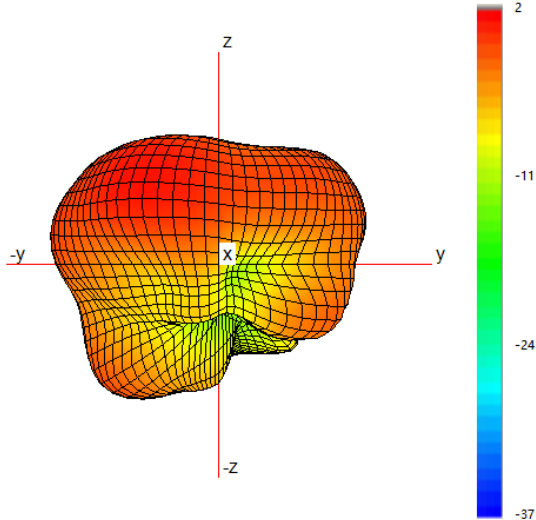
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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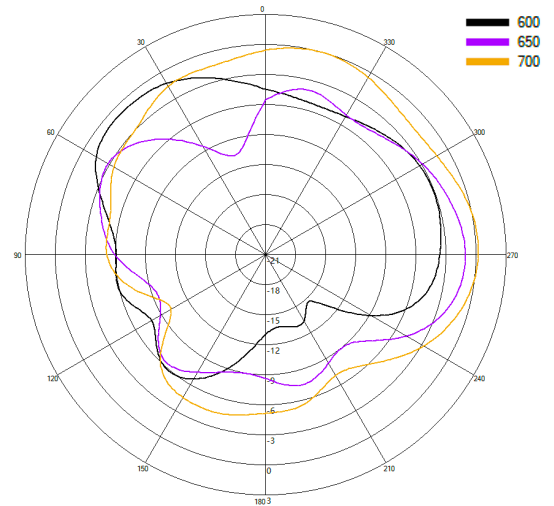
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3D Pattern Data on
Ground Plane Cell D

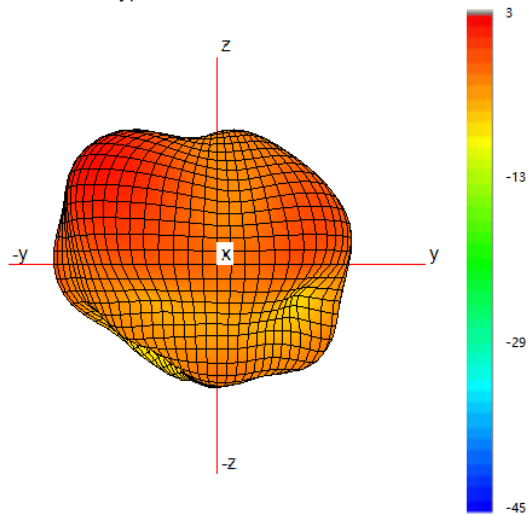
Typical 3D Pattern- Cell D - 650 MHz



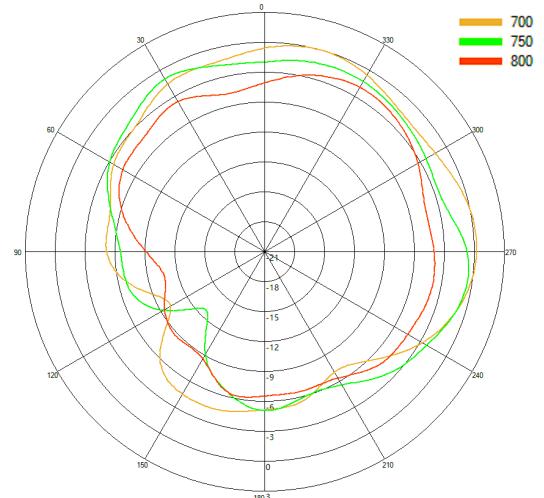
Typical H Plane- Cell D - Patterns- 600-700MHz



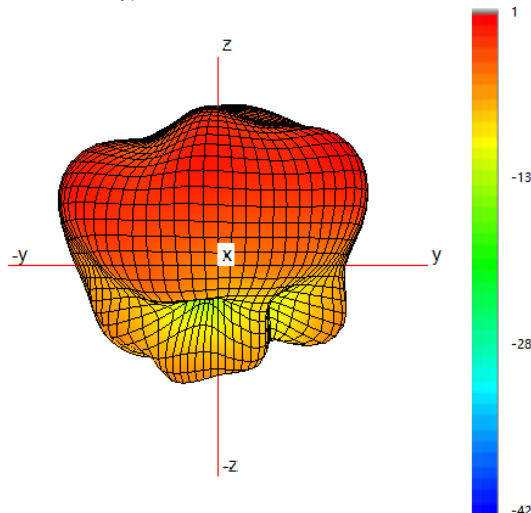
Typical 3D Pattern- Cell D - 750 MHz



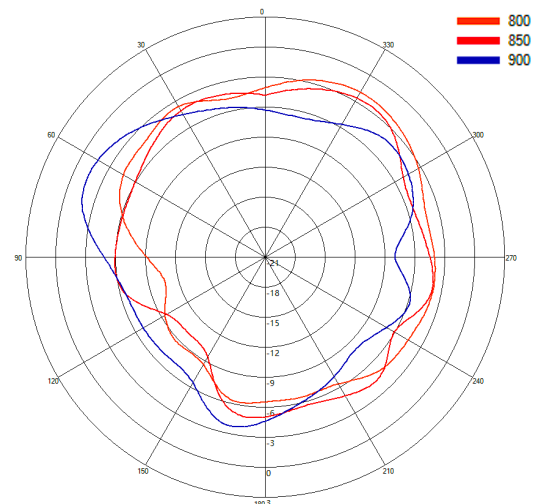
Typical H Plane- Cell D - Patterns- 700-800MHz



Typical 3D Pattern- Cell D - 850 MHz



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



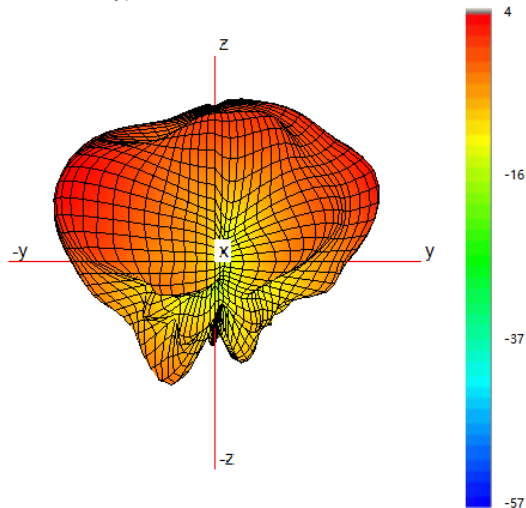
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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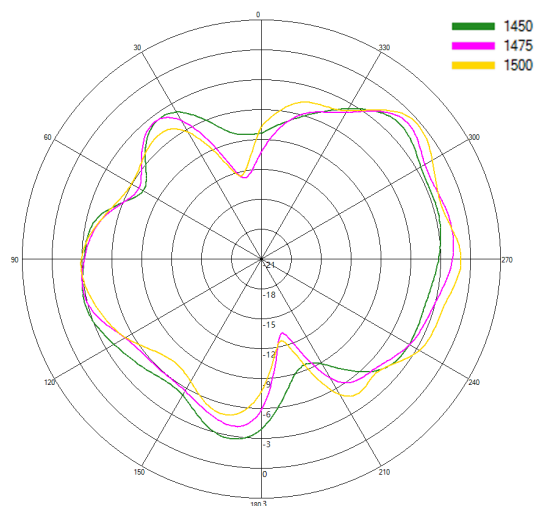
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3D Pattern Data on
Ground Plane Cell D

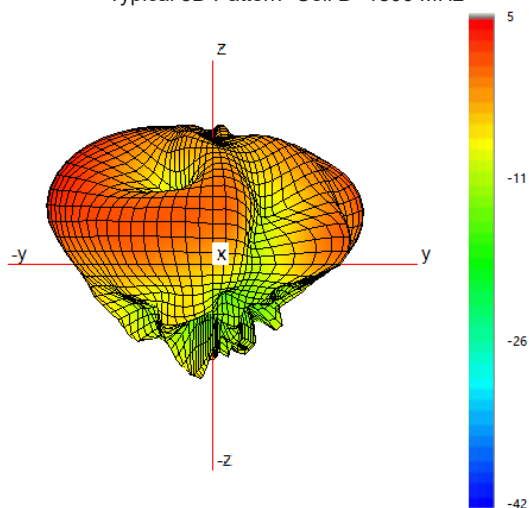
Typical 3D Pattern- Cell D - 1475 MHz



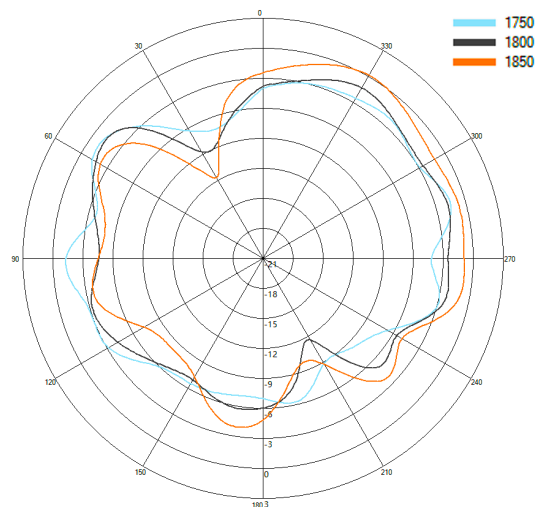
Typical H Plane- Cell D- Patterns- 1450-1500 MHz



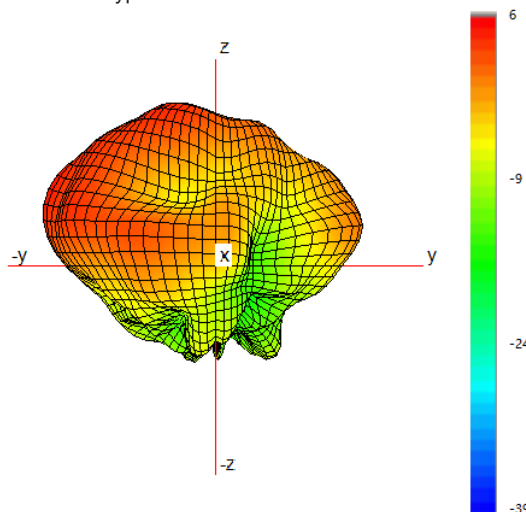
Typical 3D Pattern- Cell D- 1800 MHz



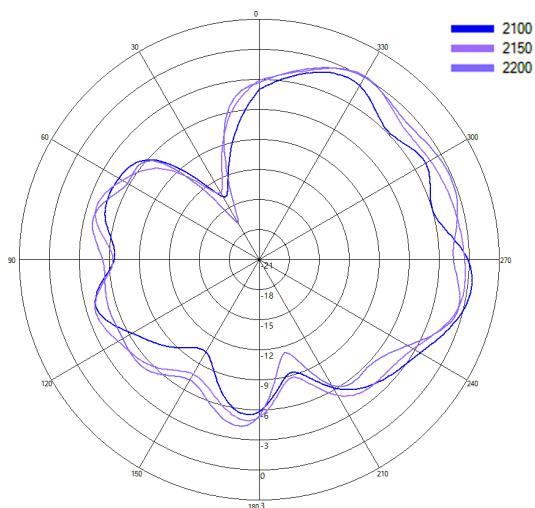
Typical H Plane- Cell D- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell D - 2150 MHz



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



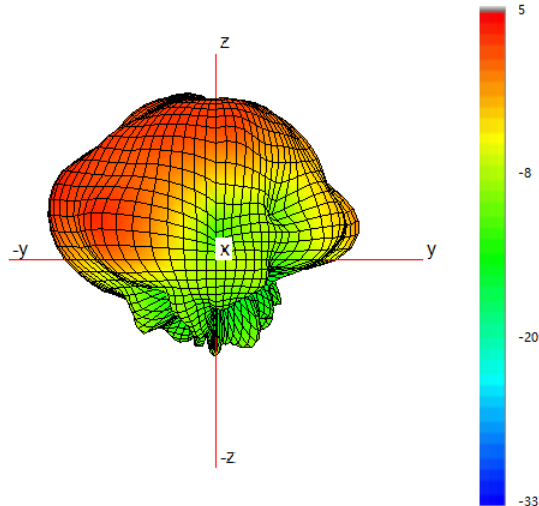
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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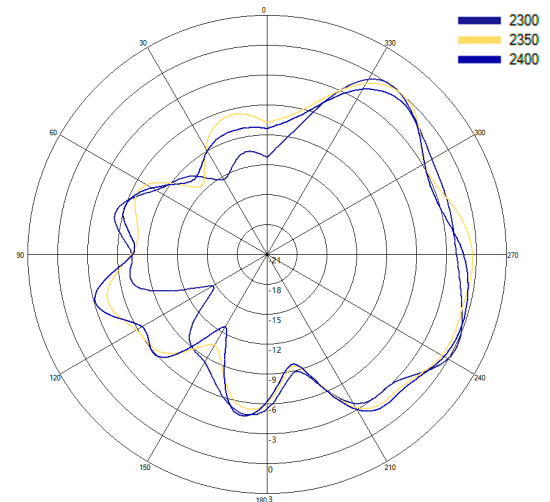
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3D Pattern Data on
Ground Plane Cell D

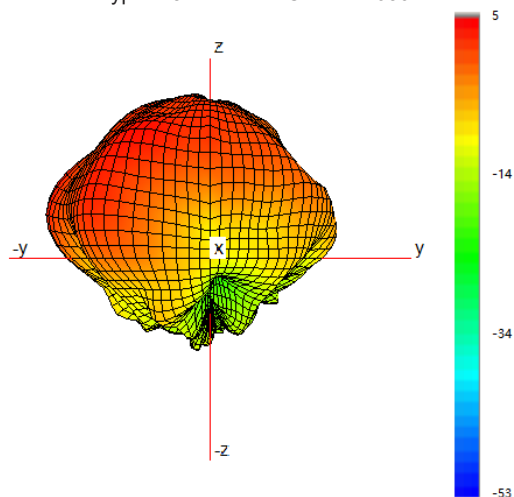
Typical 3D Pattern- Cell D - 2350 MHz



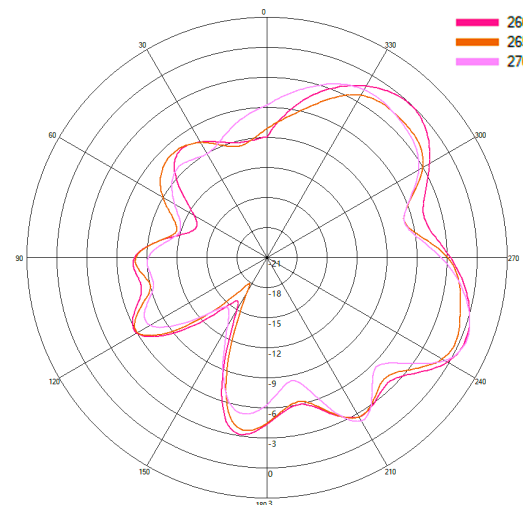
Typical H Plane- Cell D - Patterns- 2300-2400 MHz



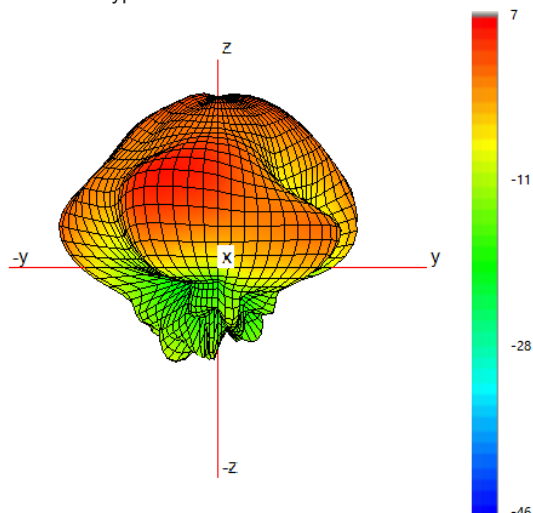
Typical 3D Pattern- Cell D - 2650 MHz



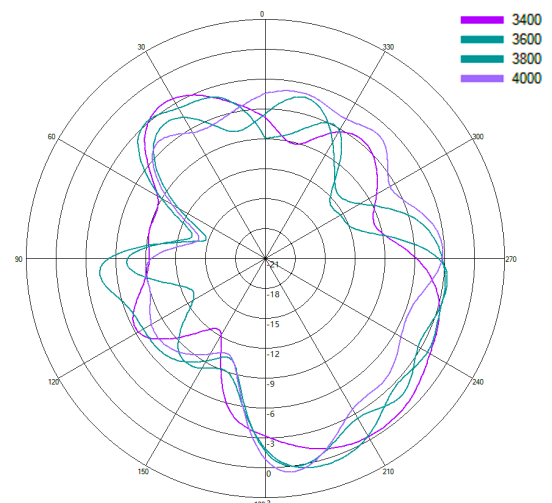
Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell D - 3600 MHz



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



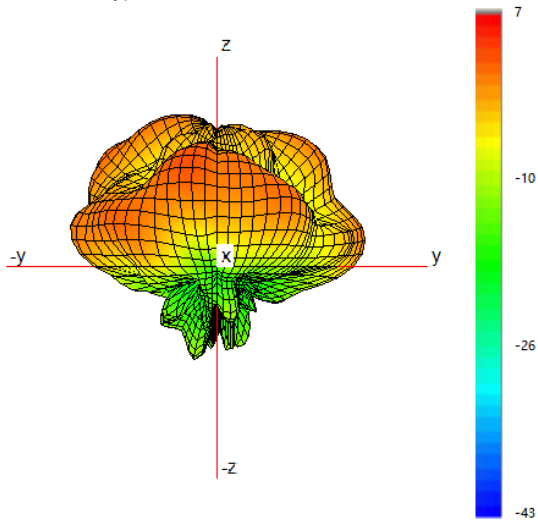
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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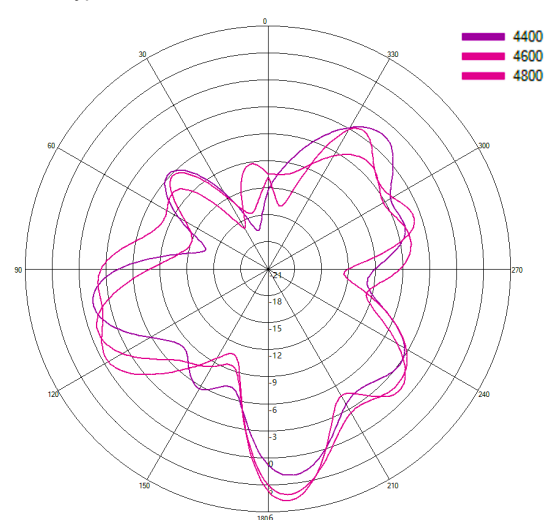
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3D Pattern Data on
Ground Plane Cell D

Typical 3D Pattern- Cell D - 4700 MHz



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



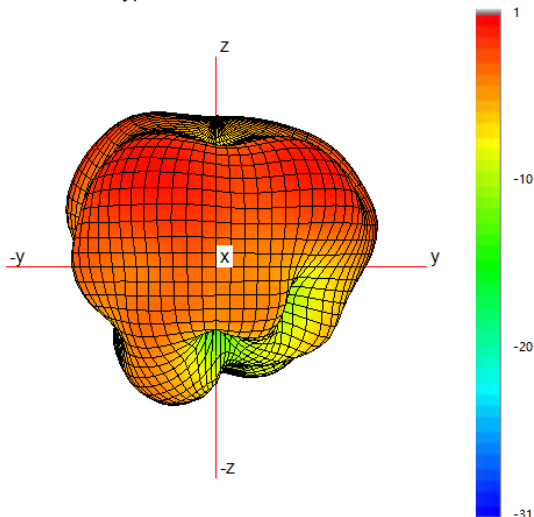
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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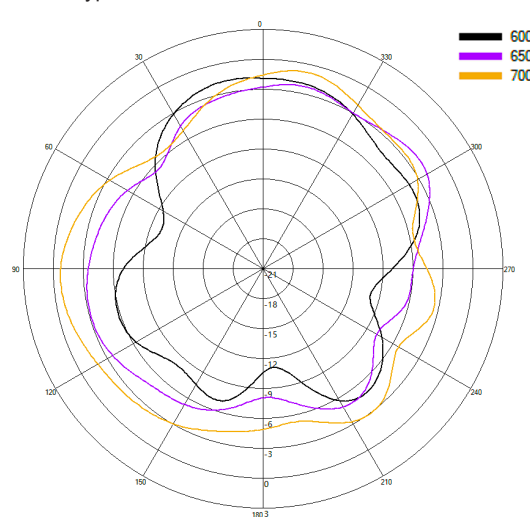
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3D Pattern Data on
Ground Plane Cell E

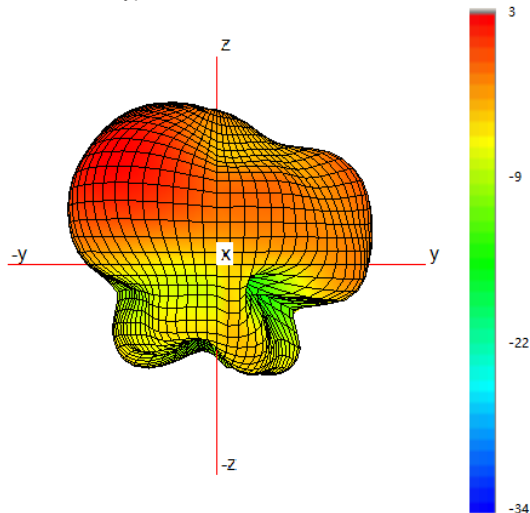
Typical 3D Pattern- Cell E - 650 MHz



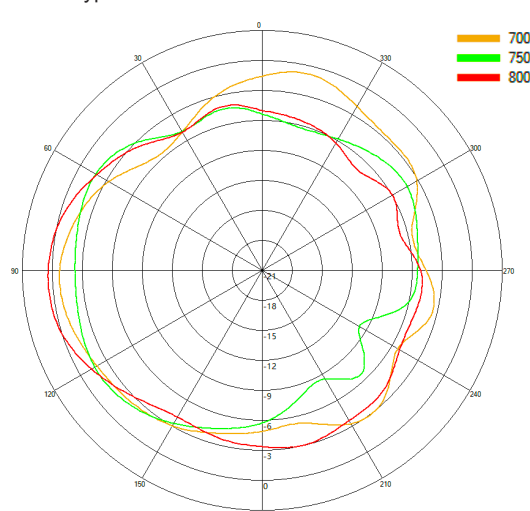
Typical H Plane- Cell E - Patterns- 600-700MHz



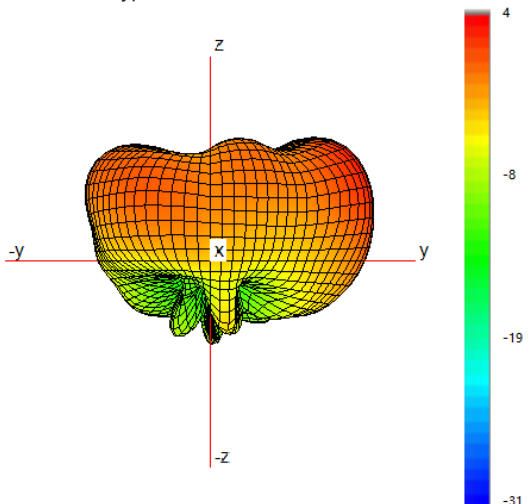
Typical 3D Pattern- Cell E - 750 MHz



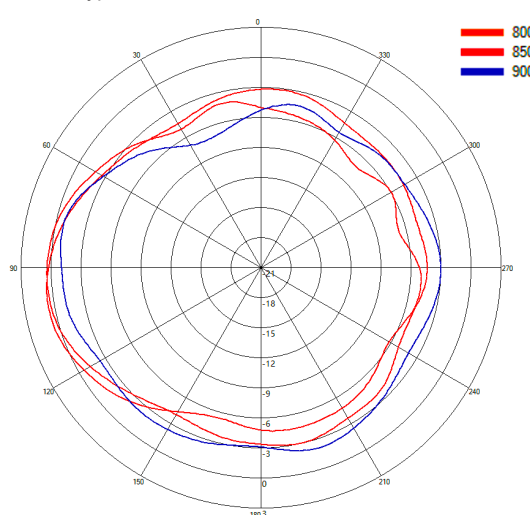
Typical H Plane- Cell E - Patterns- 700-800MHz



Typical 3D Pattern- Cell E - 850 MHz



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



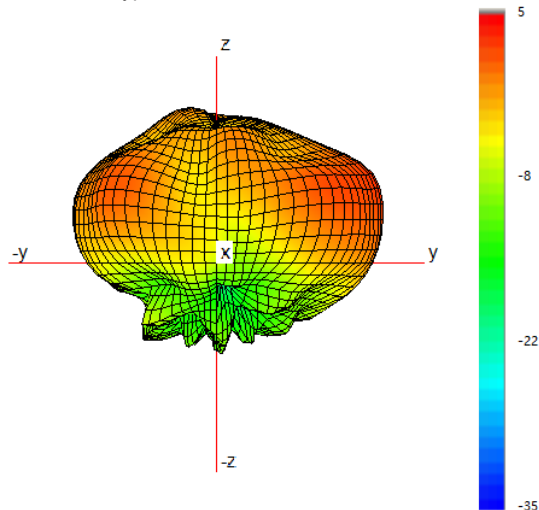
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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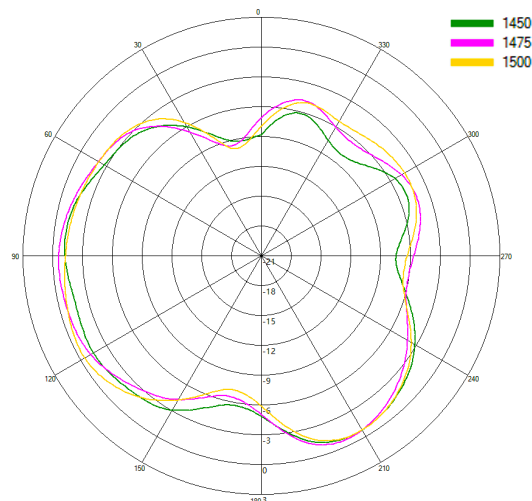
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3D Pattern Data on
Ground Plane Cell E

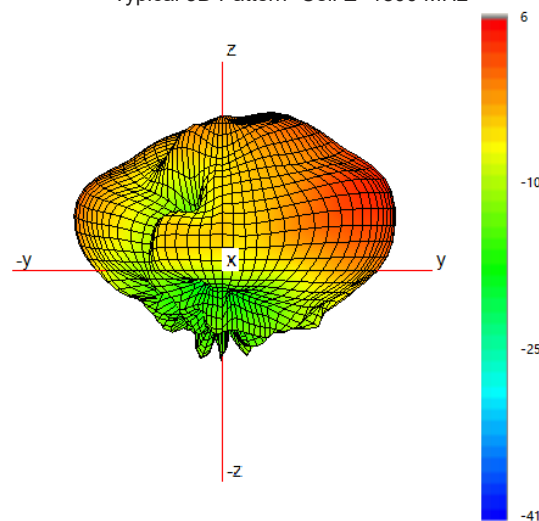
Typical 3D Pattern- Cell E - 1475 MHz



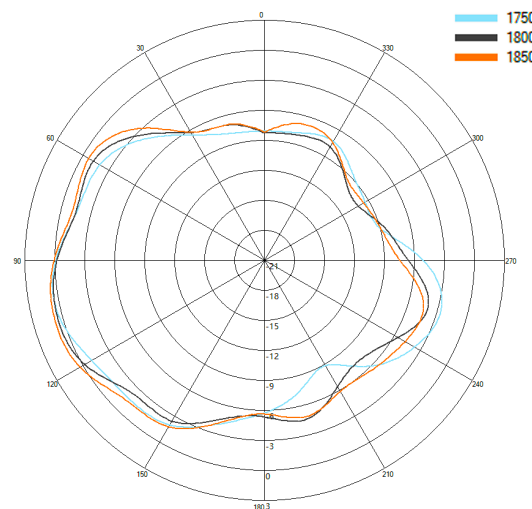
Typical H Plane- Cell E- Patterns- 1450-1500 MHz



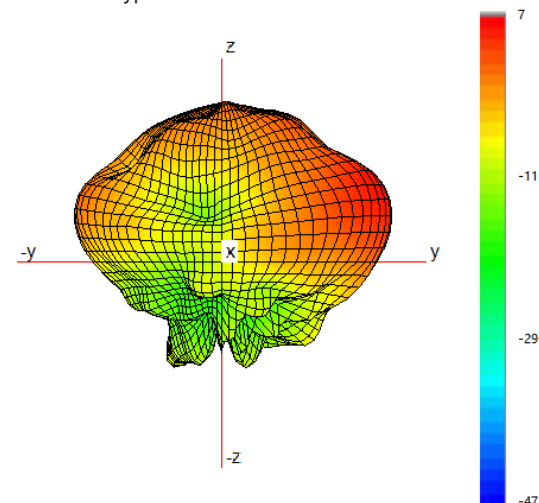
Typical 3D Pattern- Cell E- 1800 MHz



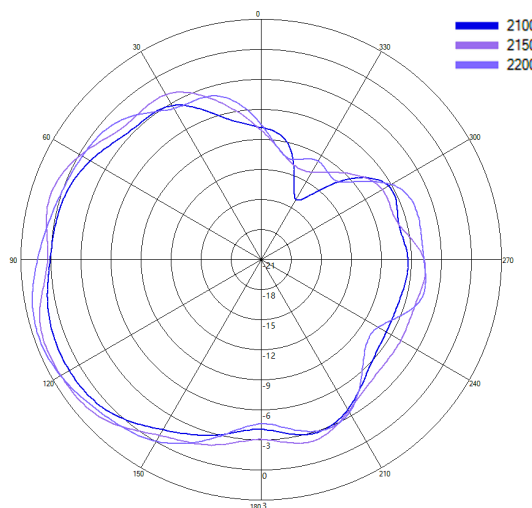
Typical H Plane- Cell E- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell E - 2150 MHz



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



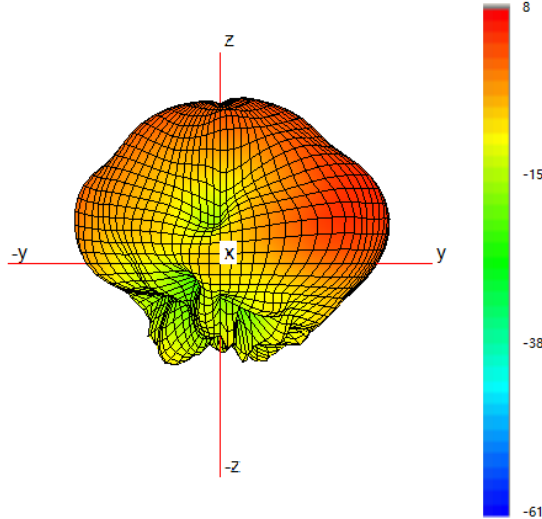
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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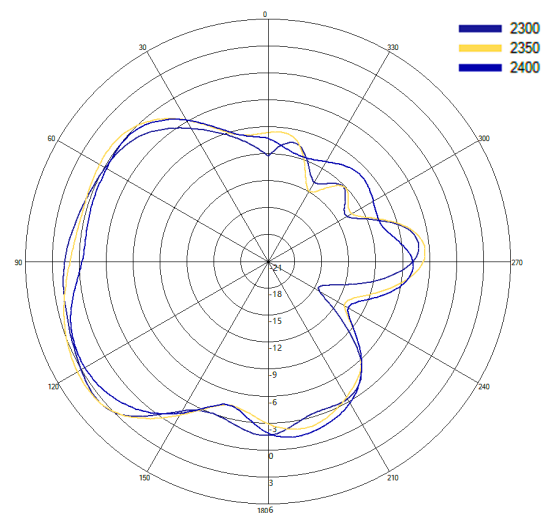
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3D Pattern Data on
Ground Plane Cell E

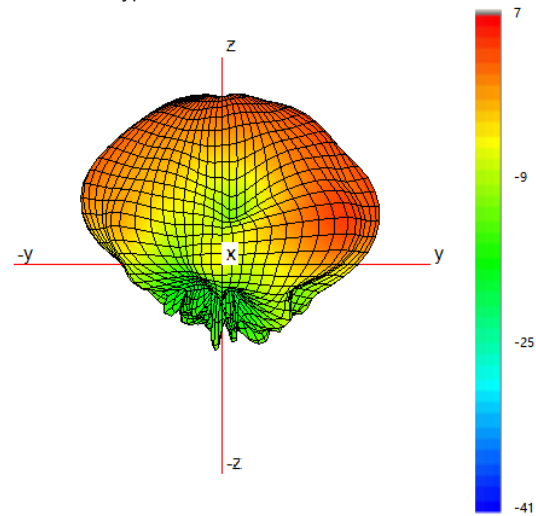
Typical 3D Pattern- Cell E - 2350 MHz



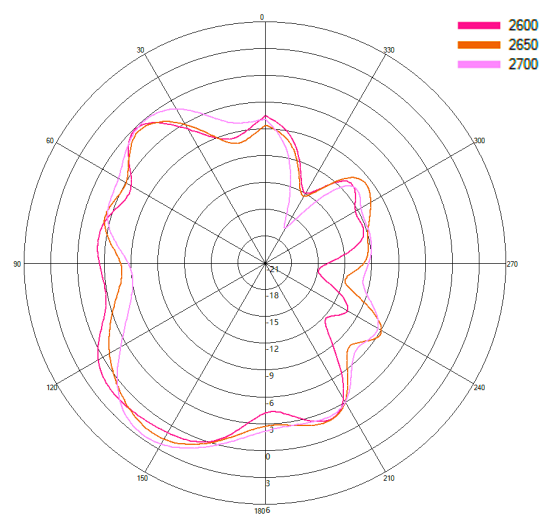
Typical H Plane- Cell E - Patterns- 2300-2400 MHz



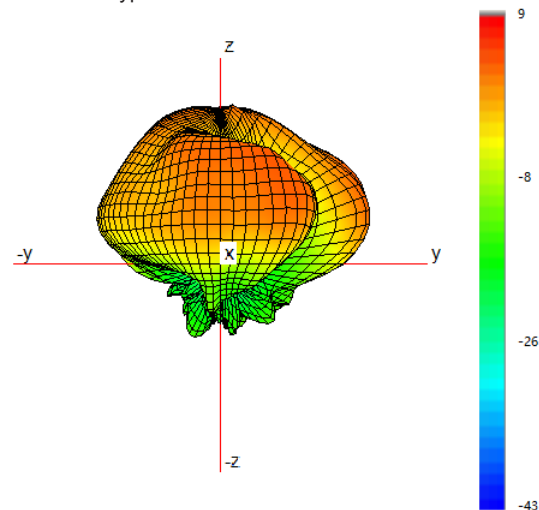
Typical 3D Pattern- Cell E - 2650 MHz



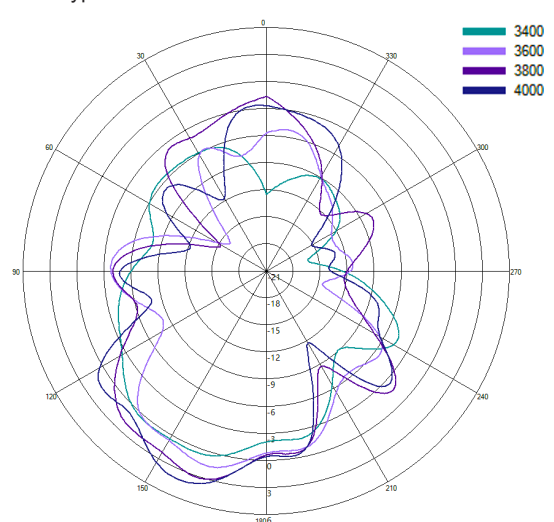
Typical H Plane- Cell E - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell E - 3600 MHz



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



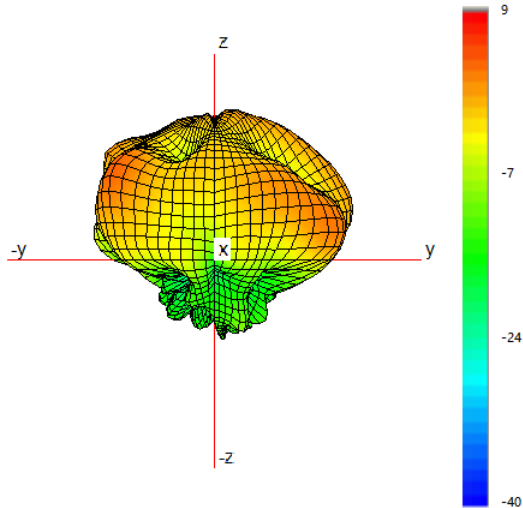
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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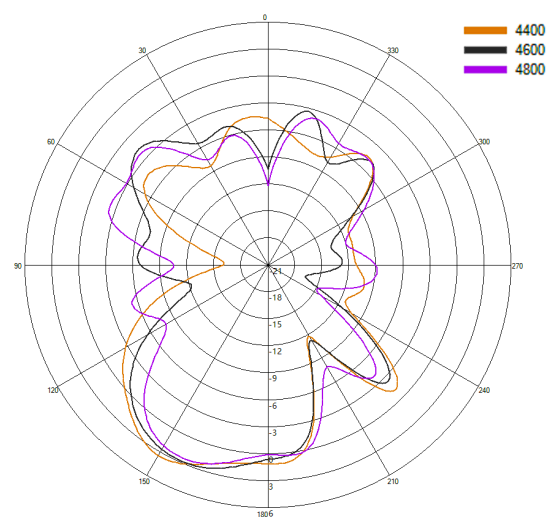
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3D Pattern Data on
Ground Plane Cell E

Typical 3D Pattern- Cell E - 4700 MHz



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



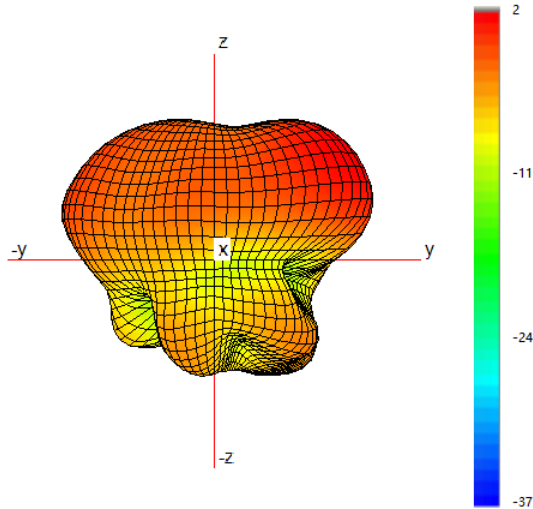
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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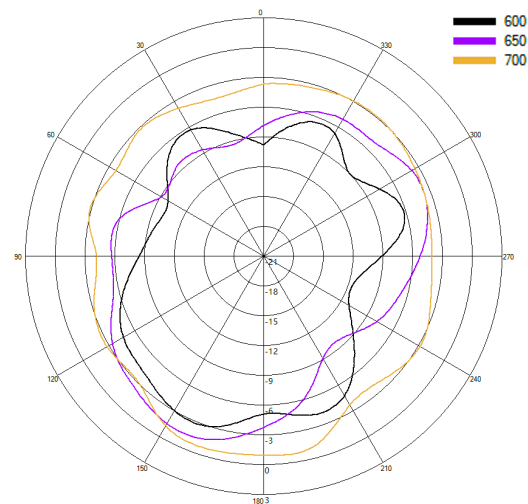
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3D Pattern Data on
Ground Plane Cell F

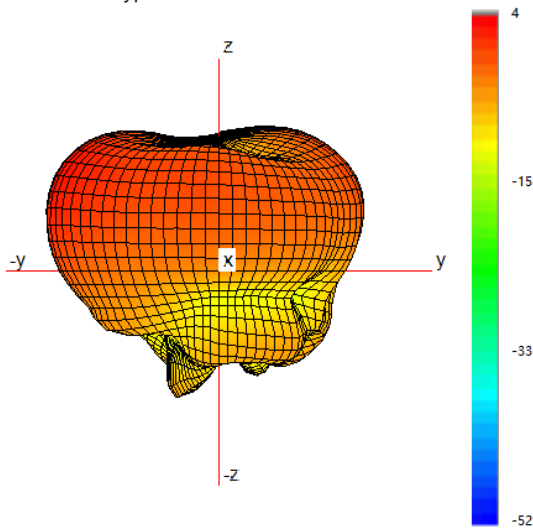
Typical 3D Pattern- Cell F - 650 MHz



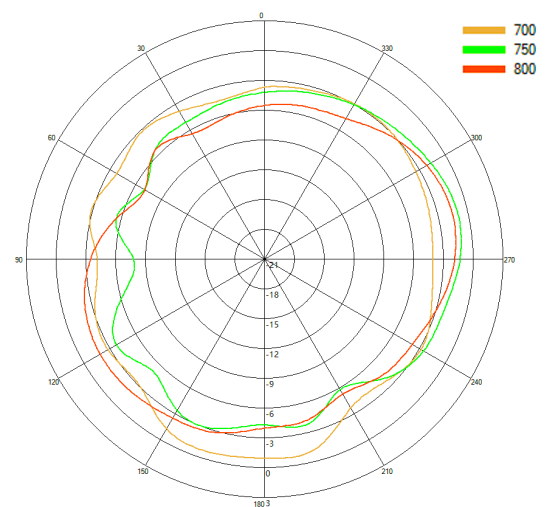
Typical H Plane- Cell F - Patterns- 600-700MHz



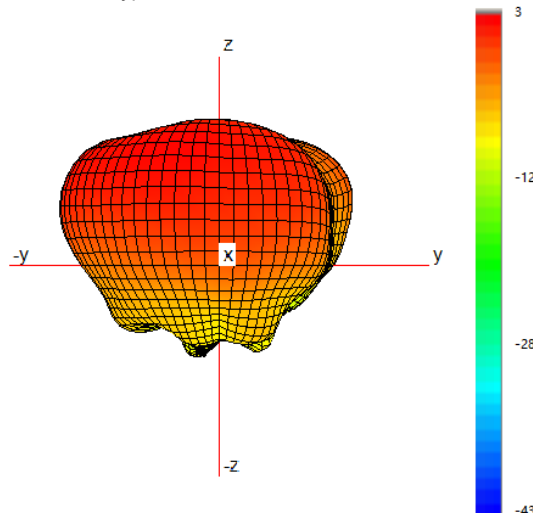
Typical 3D Pattern- Cell F - 750 MHz



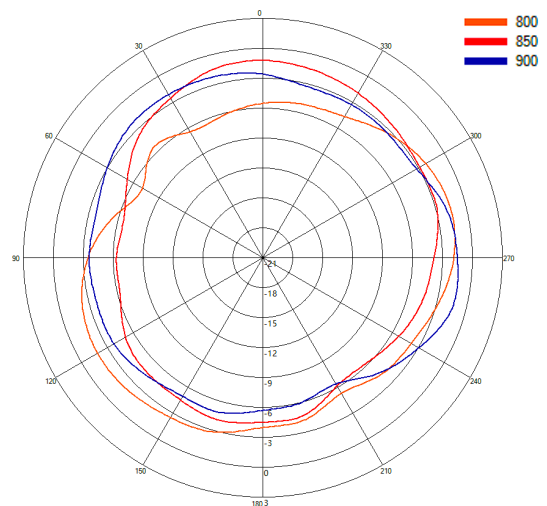
Typical H Plane- Cell F - Patterns- 700-800MHz



Typical 3D Pattern- Cell F - 850 MHz



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



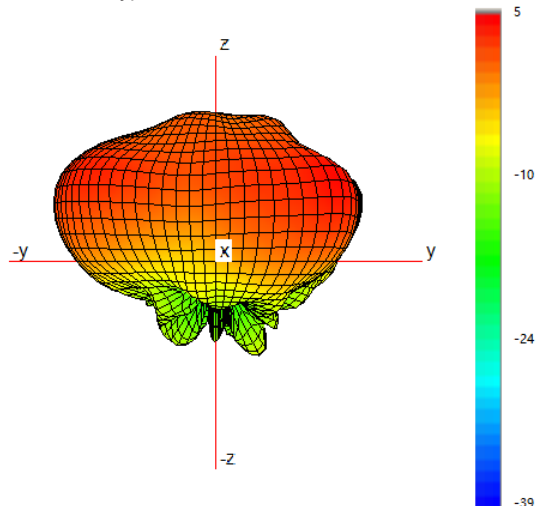
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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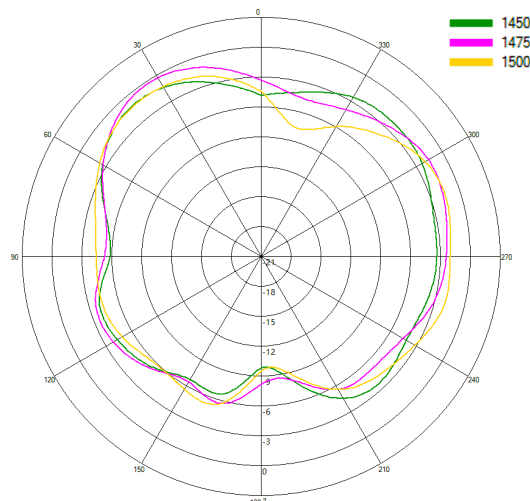
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell F

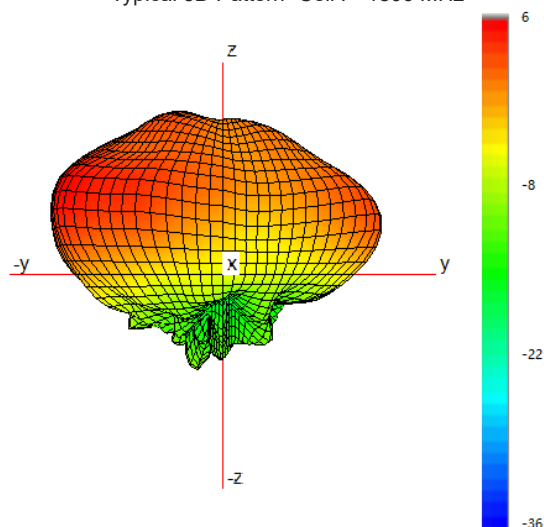
Typical 3D Pattern- Cell F - 1475 MHz



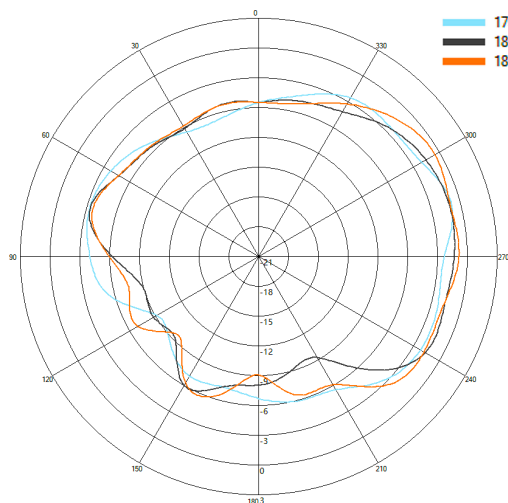
Typical H Plane- Cell F- Patterns- 1450-1500 MHz



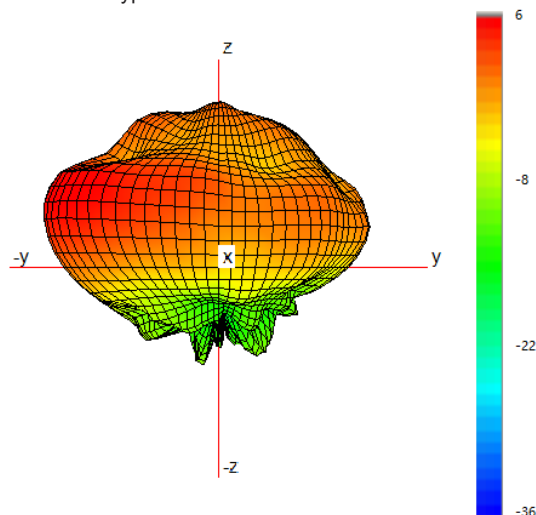
Typical 3D Pattern- Cell F- 1800 MHz



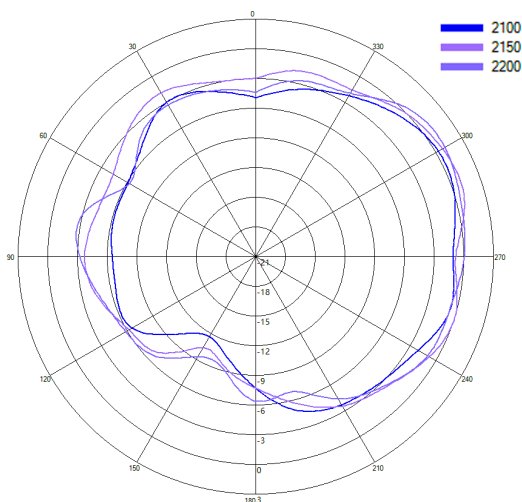
Typical H Plane- Cell F- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell F - 2150 MHz



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



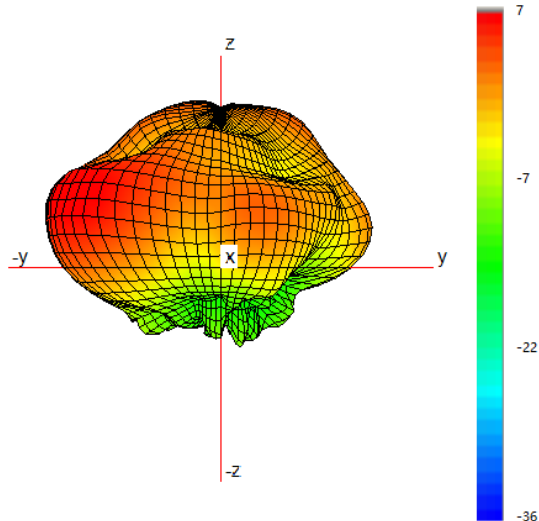
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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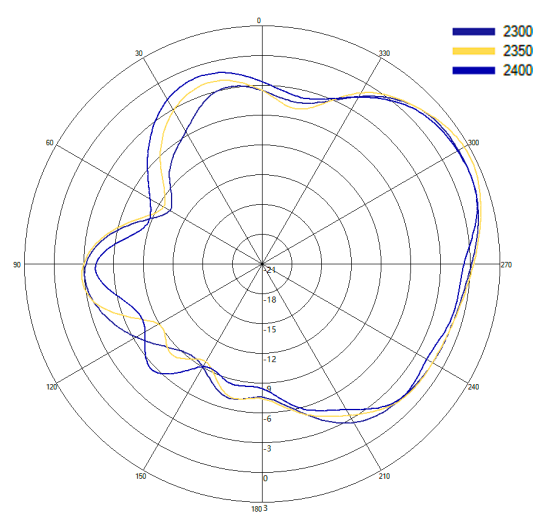
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell F

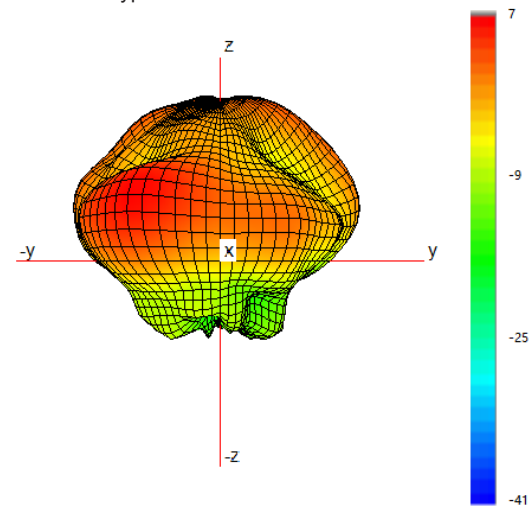
Typical 3D Pattern- Cell F - 2350 MHz



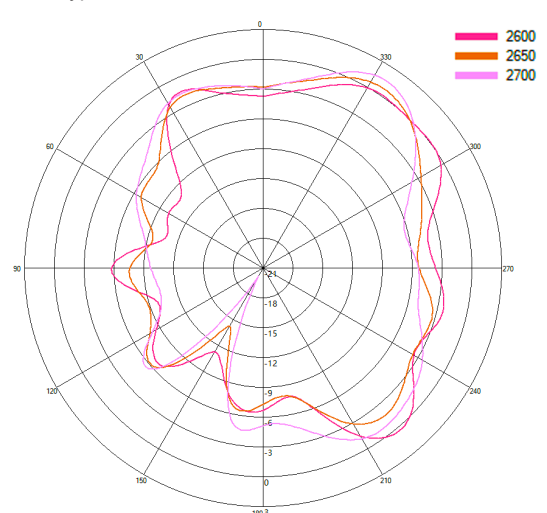
Typical H Plane- Cell F - Patterns- 2300-2400 MHz



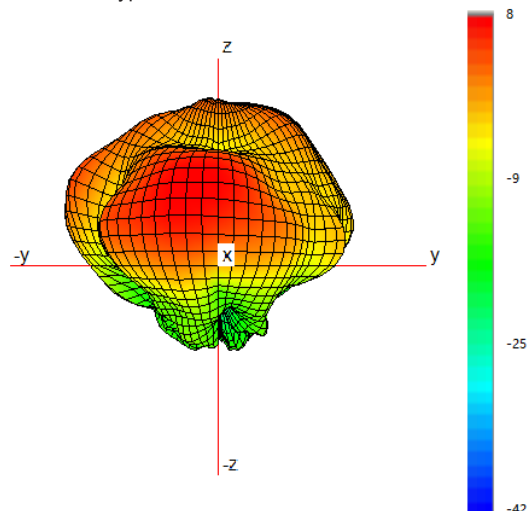
Typical 3D Pattern- Cell F - 2650 MHz



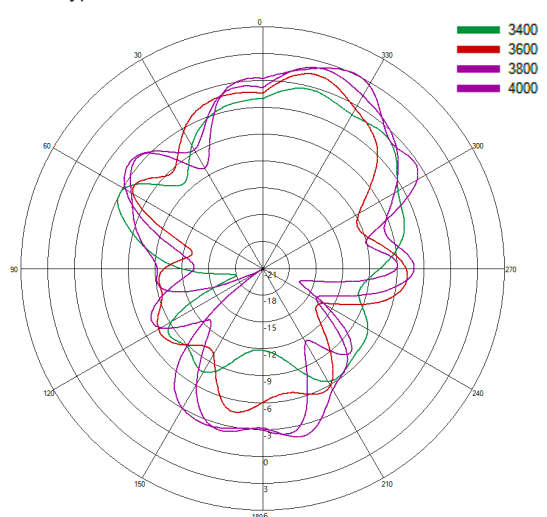
Typical H Plane- Cell F - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell F - 3600 MHz



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



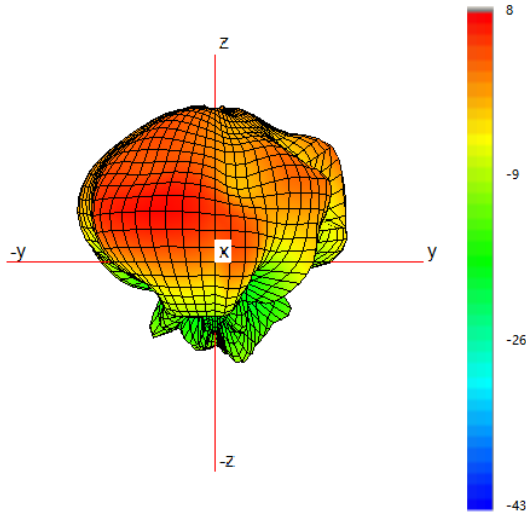
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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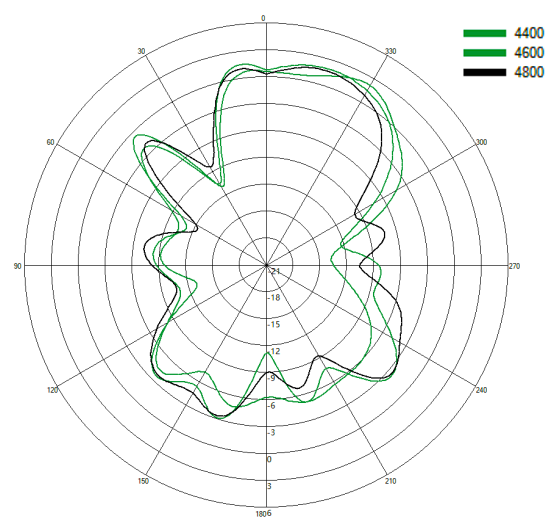
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3D Pattern Data on
Ground Plane Cell F

Typical 3D Pattern- Cell F - 4700 MHz



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



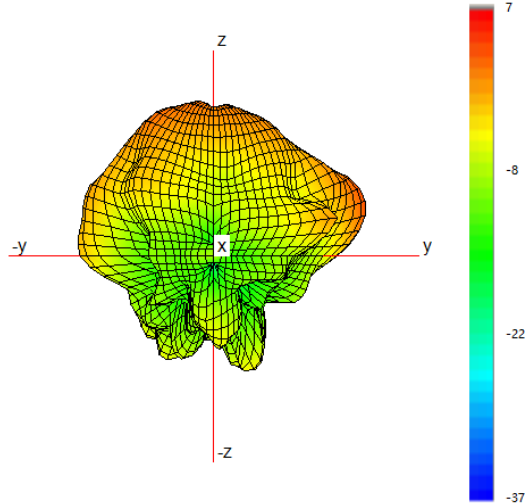
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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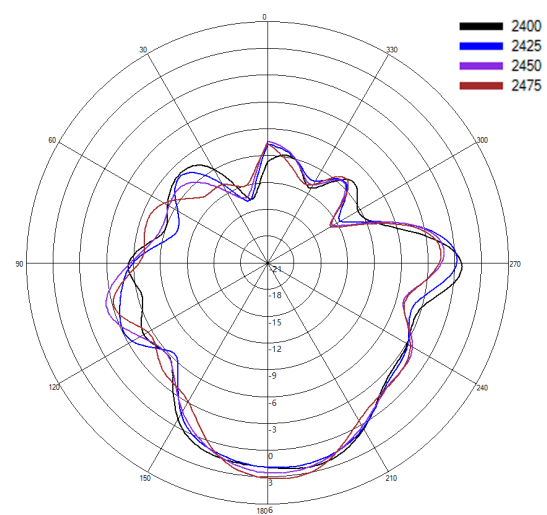
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3D Pattern Data on
Ground Plane WiFi - 1

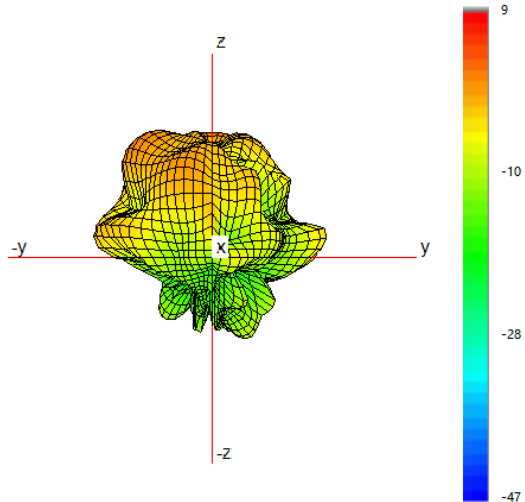
Typical 3D Pattern- WiFi - 1 - 2450 MHz



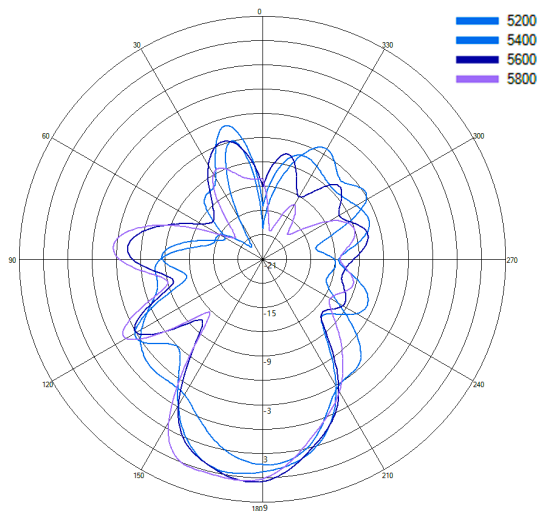
Typical H Plane- WiFi - 1 - Patterns- 2400-2475MHz



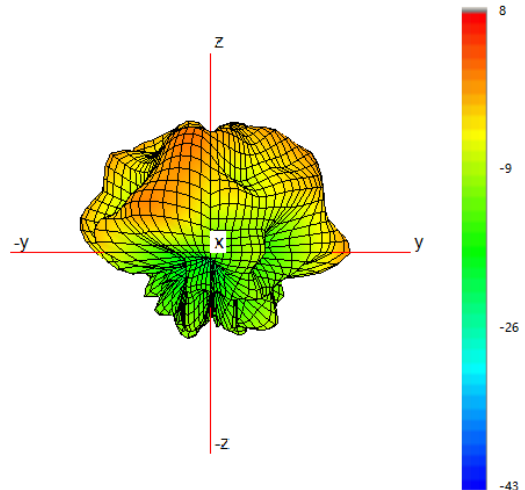
Typical 3D Pattern- WiFi - 1 - 5500 MHz



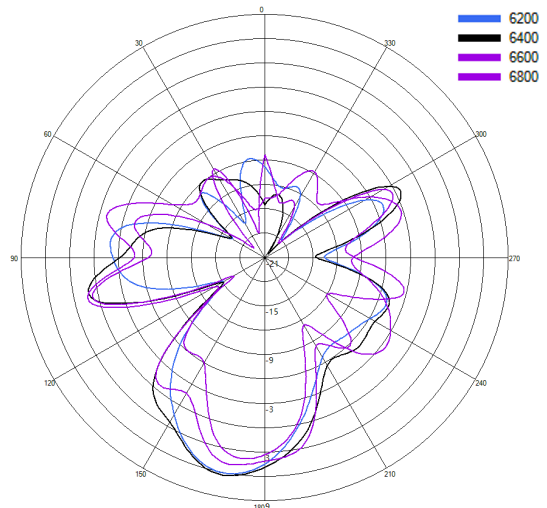
Typical H Plane- WiFi - 1 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 1 - 6500 MHz



Typical H Plane- WiFi - 1 - Patterns- 6200-6800MHz



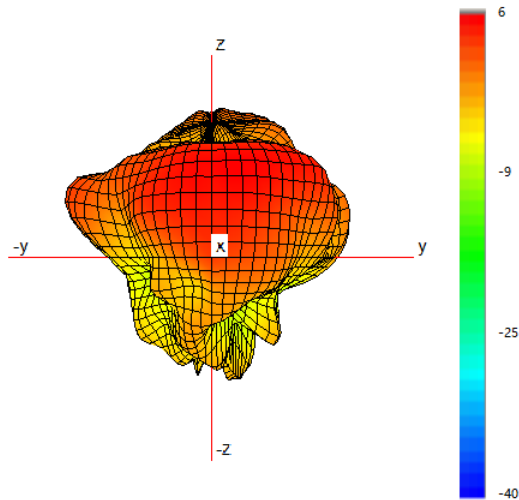
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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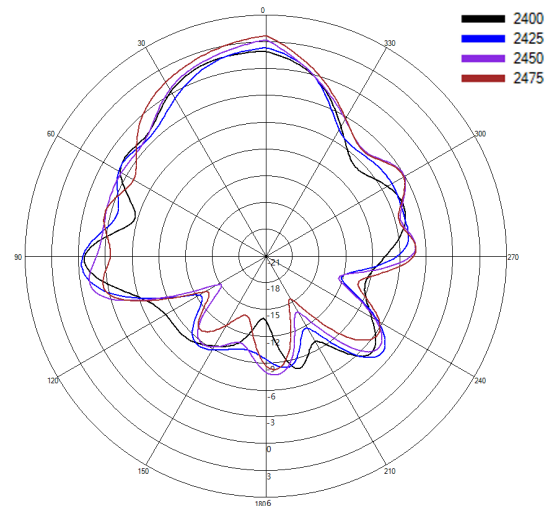
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3D Pattern Data on
Ground Plane WiFi - 2

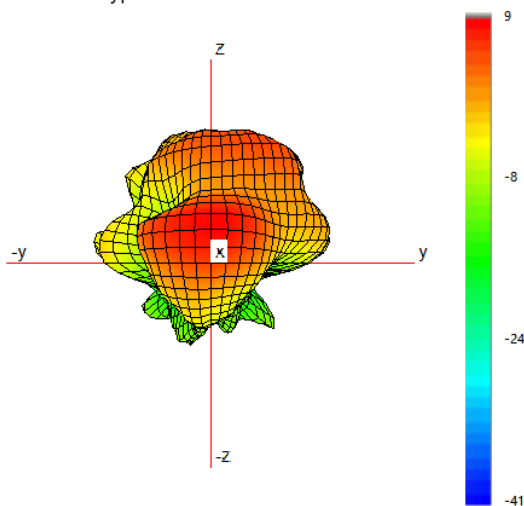
Typical 3D Pattern- WiFi - 2 - 2450 MHz



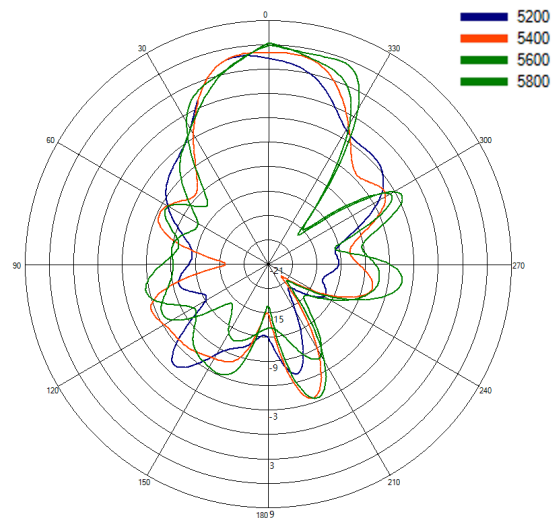
Typical H Plane- WiFi - 2 - Patterns- 2400-2475MHz



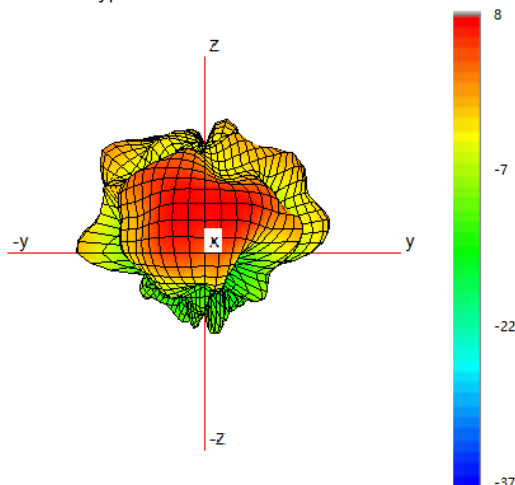
Typical 3D Pattern- WiFi - 2 - 5500 MHz



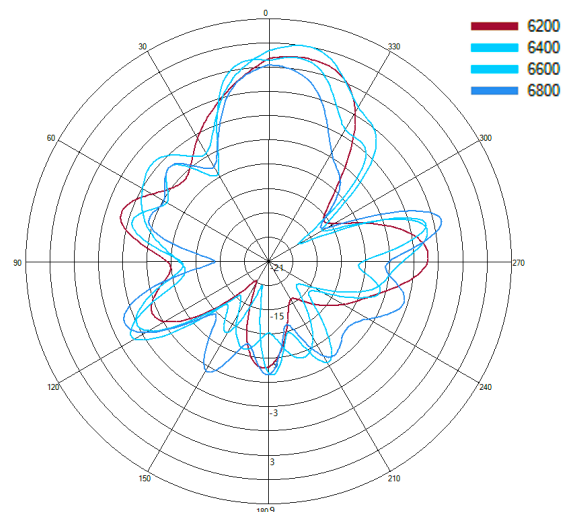
Typical H Plane- WiFi - 2 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 2 - 6500 MHz



Typical H Plane- WiFi - 2 - Patterns- 6200-6800MHz



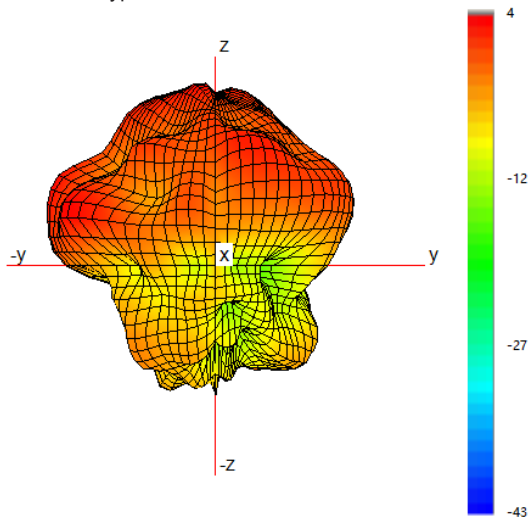
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

LG-IN2937

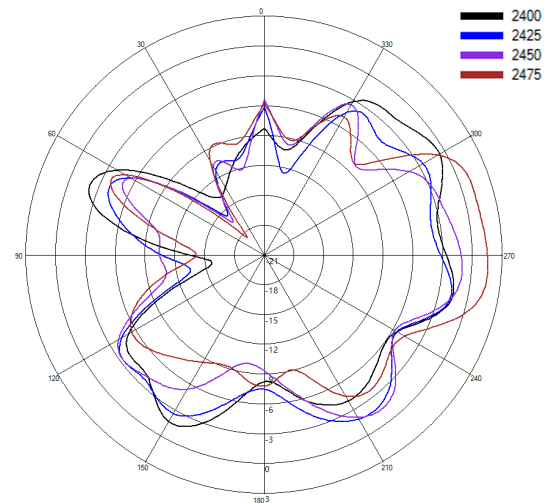
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3D Pattern Data on
Ground Plane WiFi- 3

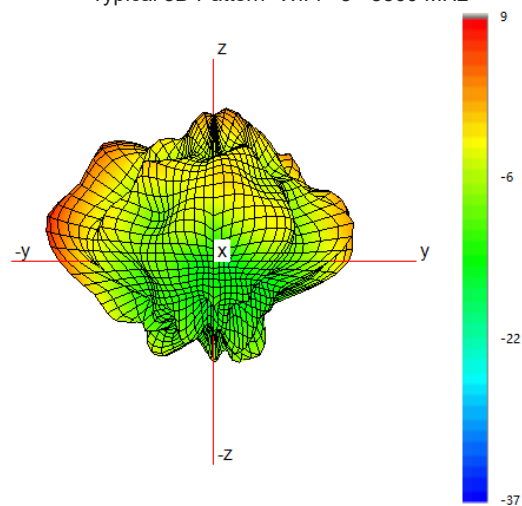
Typical 3D Pattern- WiFi - 3 - 2450 MHz



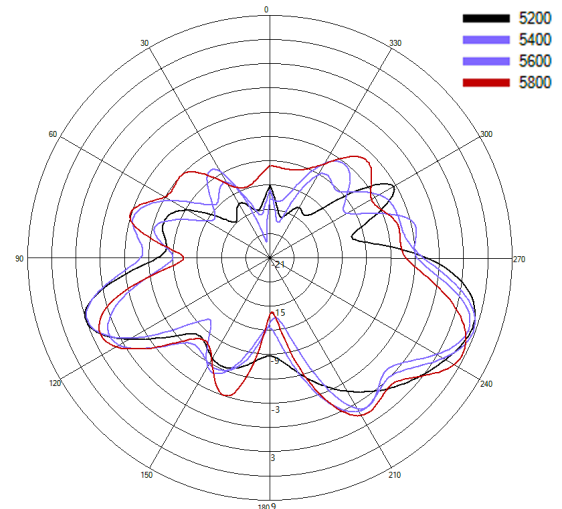
Typical H Plane- WiFi - 3 - Patterns- 2400-2475MHz



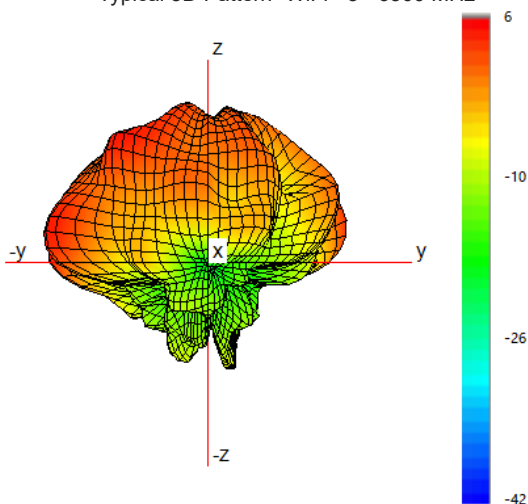
Typical 3D Pattern- WiFi - 3 - 5500 MHz



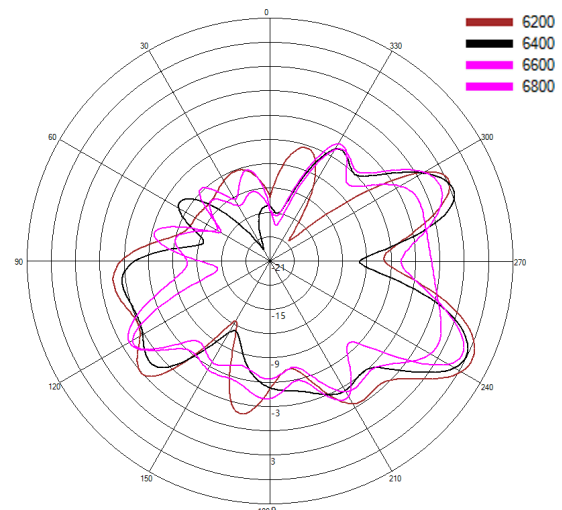
Typical H Plane- WiFi - 3 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 3 - 6500 MHz



Typical H Plane- WiFi - 3 - Patterns- 6200-6800MHz



3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

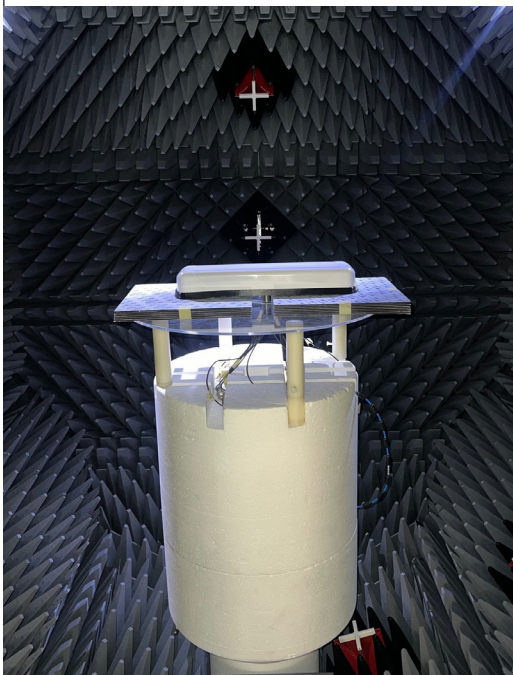
PANORAMA ANTENNAS

LG-IN2937

Electrical Data Cell -
Free Space

Measurement Conditions

LG-IN2937 measured in free space with 0.5m (1.6') of
CS30 Cable



4G/5G Antennas

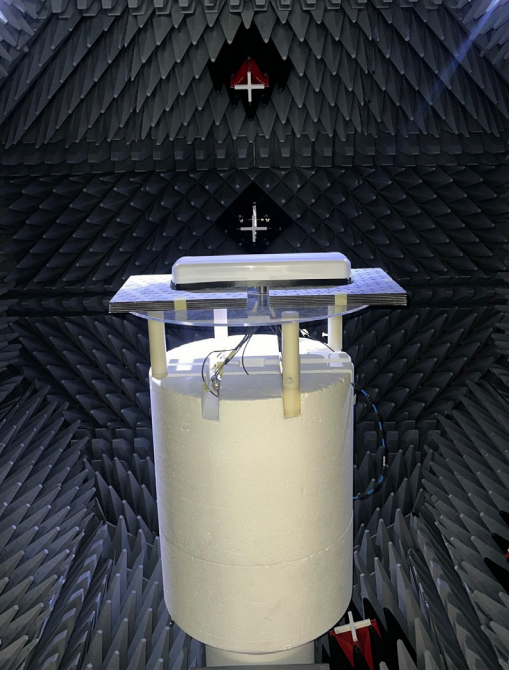
Frequency Range (MHz)	LTE Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
617-698	71, 105	Cell A	0.5	48
		Cell B	1.4	47
		Cell C	0.9	49
		Cell D	0.6	47
699-798	12,13, 14 17,28	Cell A	1.8	55
		Cell B	1.0	53
		Cell C	1.4	57
		Cell D	0.6	53
807- 862	5,19,20,26,27	Cell A	1.8	52
		Cell B	2.1	55
		Cell C	1.7	53
		Cell D	1.7	54
880-960	8	Cell A	2.4	61
		Cell B	2.1	61
		Cell C	3.0	62
		Cell D	1.7	61
1427-1518	11, 21, 74,75,76	Cell A	2.2	51
		Cell B	1.9	50
		Cell C	2.7	55
		Cell D	2.4	53
1710-1920	2,3,4,9,25,35,39,66	Cell A	2.8	47
		Cell B	2.1	46
		Cell C	4.3	50
		Cell D	2.0	46
1920-2170	1,23	Cell A	3.9	56
		Cell B	3.8	56
		Cell C	4.6	59
		Cell D	3.3	57
2300-2400	30,40	Cell A	4.0	61
		Cell B	4.5	58
		Cell C	4.3	64
		Cell D	4.1	59
2496-2690	7,38,41	Cell A	3.4	51
		Cell B	4.4	52
		Cell C	3.3	53
		Cell D	4.5	52
3300-4200	22,42,43,48,77,78	Cell A	6.4	54
		Cell B	6.8	55
		Cell C	6.8	58
		Cell D	6.4	55
4400-5000	79	Cell A	6.5	54
		Cell B	5.3	49
		Cell C	7.5	55
		Cell D	5.1	49

3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

PANORAMA ANTENNAS

LG-IN2937

Electrical Data Cell -
Free Space

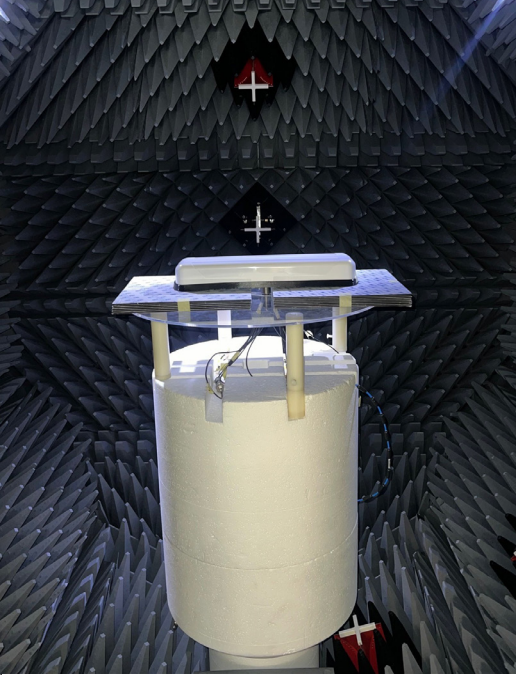
Measurement Conditions	4G/5G Antennas				
LG-IN2937 measured in free space with 0.5m (1.6') of CS30 Cable	Frequency Range (MHz)	LTE Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71, 105	Cell E	2.0	43
			Cell F	2.2	44
	699-798	12,13, 14 17,28	Cell E	2.6	59
			Cell F	2.7	60
	807- 862	5,19,20,26,27	Cell E	1.9	58
			Cell F	2.4	58
	880-960	8	Cell E	2.5	59
			Cell F	2.6	60
	1427-1518	11, 21, 74,75,76	Cell E	3.1	55
			Cell F	3.2	59
	1710-1920	2,3,4,9,25,35,39,66	Cell E	3.4	55
			Cell F	3.6	58
	1920-2170	1,23	Cell E	2.8	61
			Cell F	2.7	63
	2300-2400	30,40	Cell E	3.8	67
			Cell F	3.7	70
	2496-2690	7,38,41	Cell E	4.6	60
			Cell F	4.5	61
	3300-4200	22,42,43,48,77,78	Cell E	7.5	59
			Cell F	7.8	63
	4400-5000	79	Cell E	6.6	54
			Cell F	6.8	55

3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

LG-IN2937

PANORAMA ANTENNAS

Electrical Data WiFi - Free Space

Measurement Conditions	WiFi Antennas				
LG-IN2937 measured in free space with 0.5m (1.6') of CS30 Cable	Frequency Range (MHz)	WiFi Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	2396-2485	2.4GHz	WiFi 1	4.8	63
			WiFi 2	5.3	65
			WiFi 3	4.8	62
	5150-5250	UNII-1	WiFi 1	6.6	51
			WiFi 2	6.9	50
			WiFi 3	6.8	54
	5250-5350	UNII-2A	WiFi 1	6.7	51
			WiFi 2	7.0	49
			WiFi 3	7.1	54
	5350-5470	UNII-2B	WiFi 1	7.1	50
			WiFi 2	6.8	48
			WiFi 3	7.1	51
	5470-5725	UNII-2C	WiFi 1	7.1	51
			WiFi 2	7.4	49
			WiFi 3	6.6	46
	5725-5850	UNII-3	WiFi 1	7.9	54
			WiFi 2	7.7	52
			WiFi 3	6.2	52
	5850-5925	UNII-4	WiFi 1	7.8	53
			WiFi 2	7.5	51
			WiFi 3	5.7	49
	5925-6425	UNII-5	WiFi 1	8.1	51
			WiFi 2	8.2	50
			WiFi 3	7.4	50
	6425-6525	UNII-6	WiFi 1	8.1	49
			WiFi 2	8.2	47
			WiFi 3	7.3	52
	6525-6875	UNII-7	WiFi 1	7.3	44
			WiFi 2	7.4	43
			WiFi 3	6.7	49
	6875-7125	UNII-8	WiFi 1	6.5	40
			WiFi 2	6.3	40
			WiFi 3	5.4	44

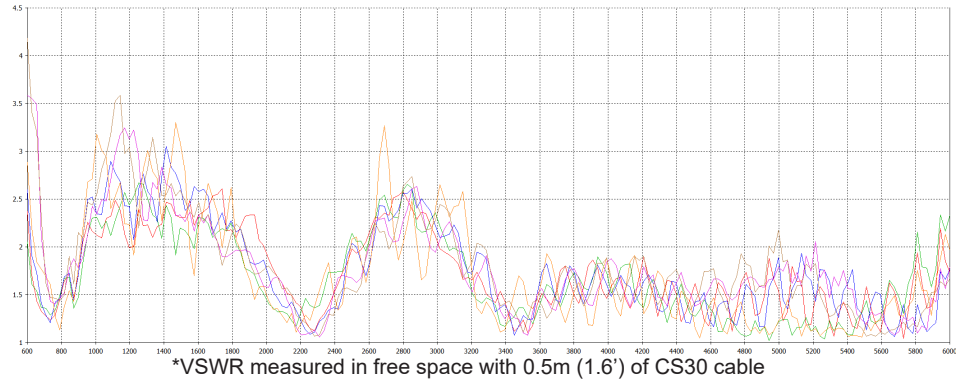
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

LG-IN2937

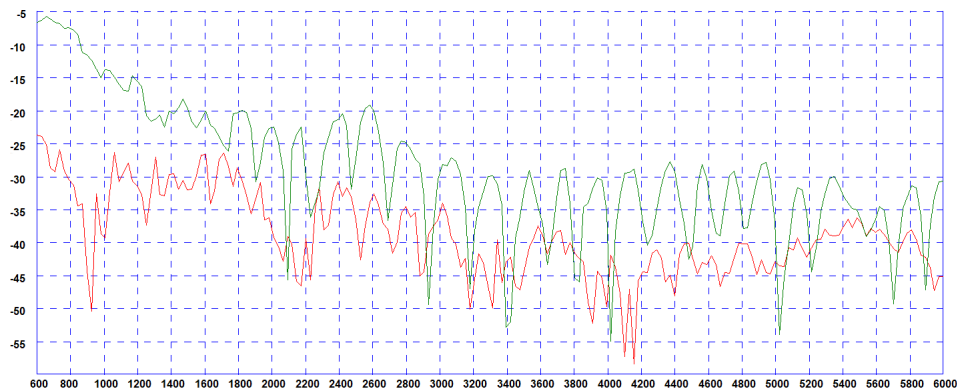
PANORAMA ANTENNAS

Electrical Data Cell -
Free Space

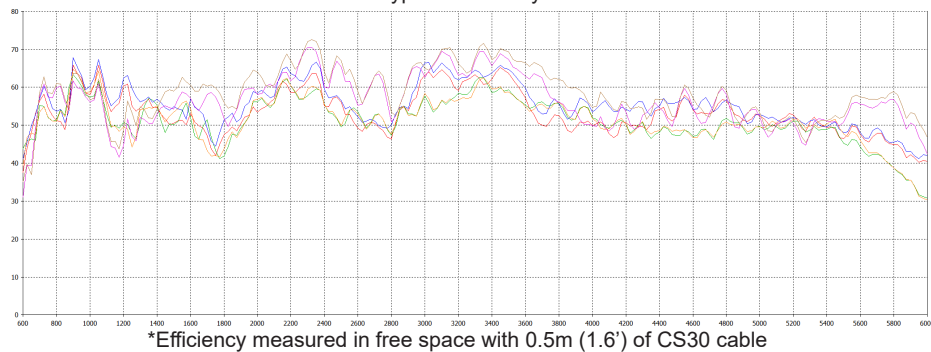
Typical VSWR*



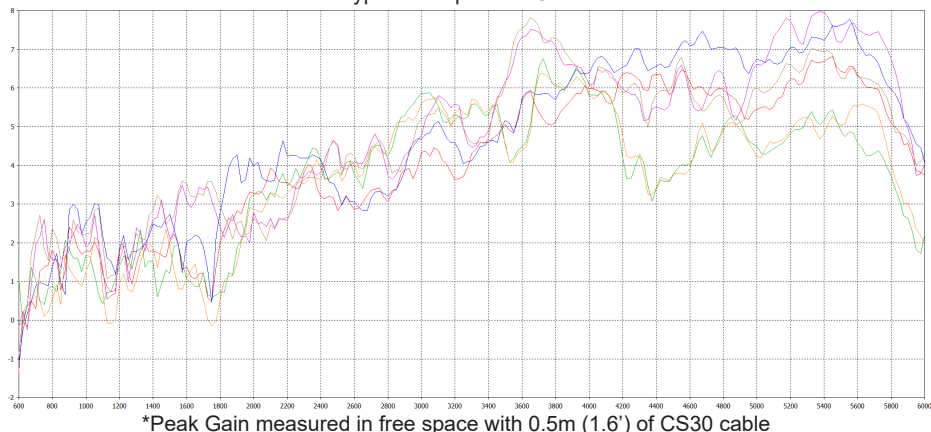
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



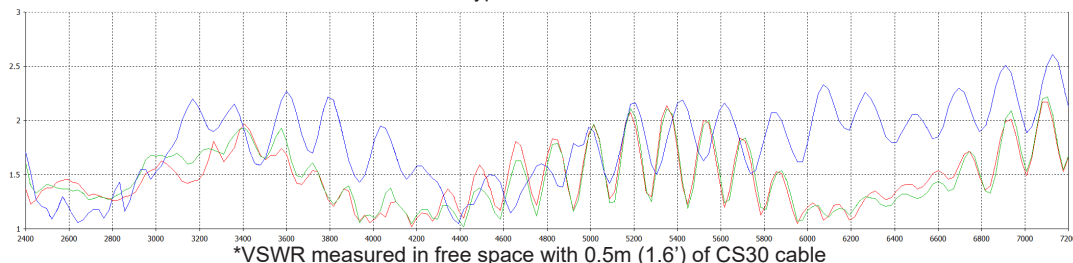
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

LG-IN2937

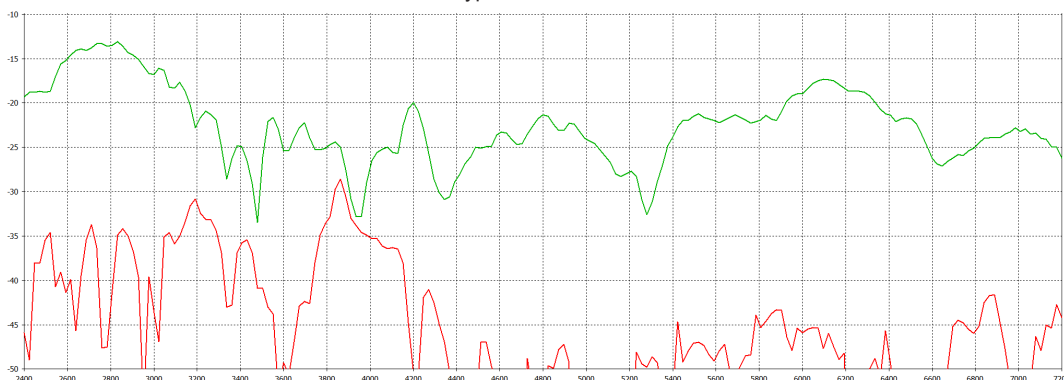
PANORAMA ANTENNAS

Electrical Data WiFi - Free Space

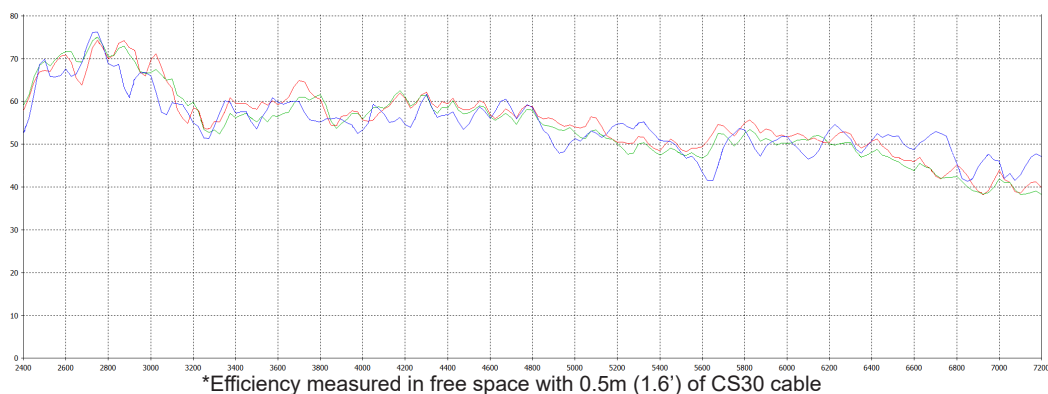
Typical VSWR*



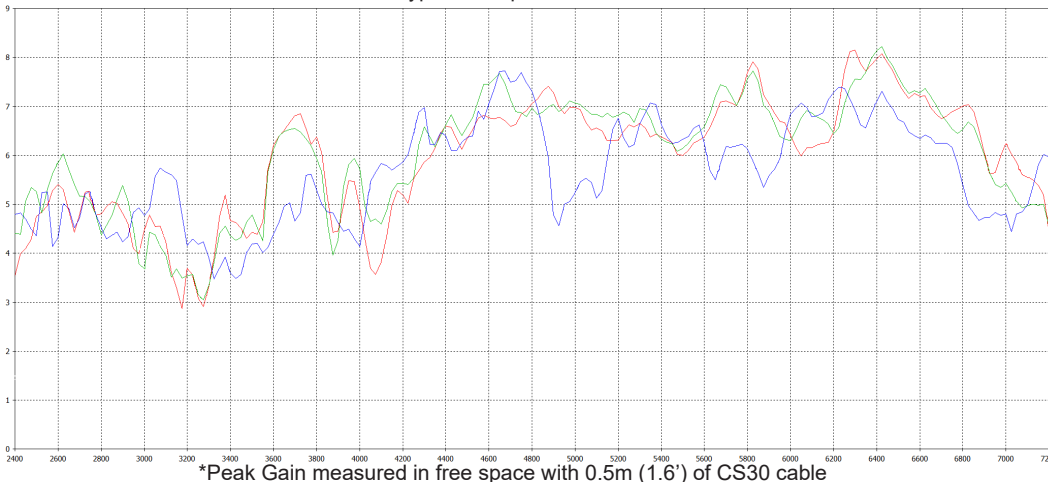
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



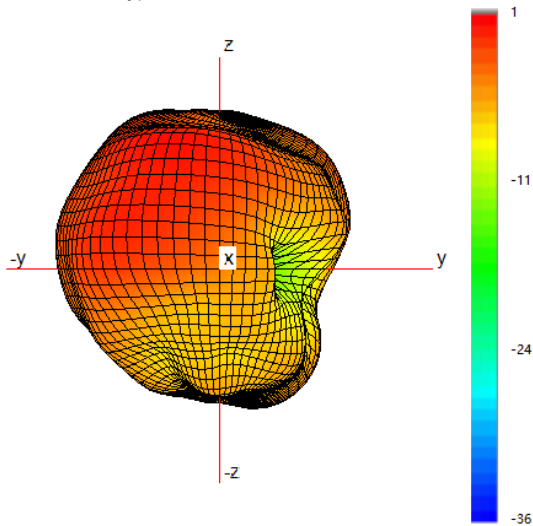
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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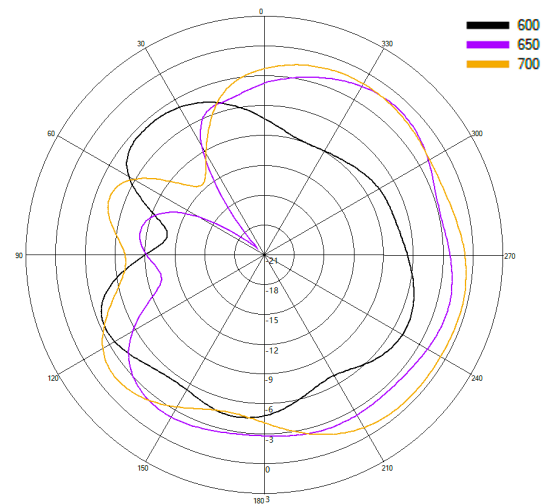
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell A

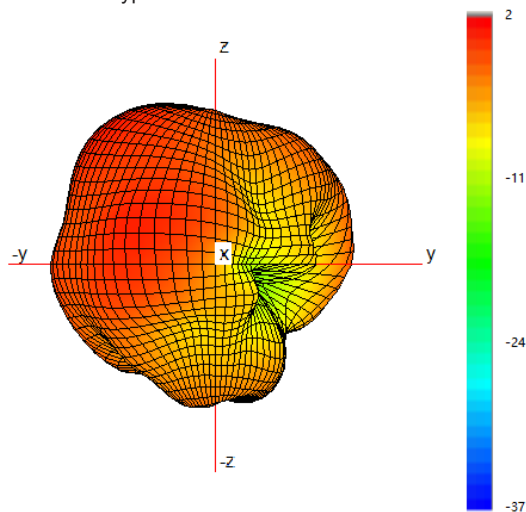
Typical 3D Pattern- Cell A - 650 MHz



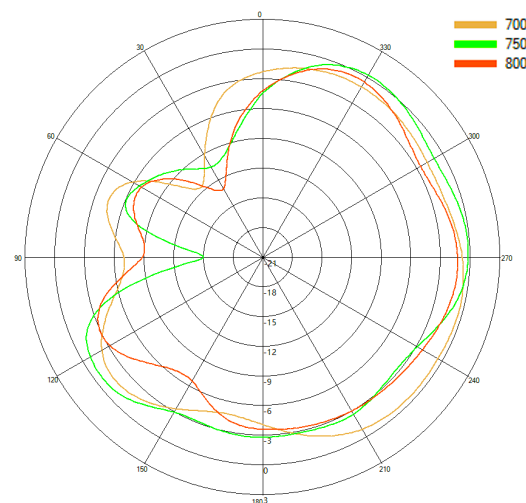
Typical H Plane- Cell A - Patterns- 600-700MHz



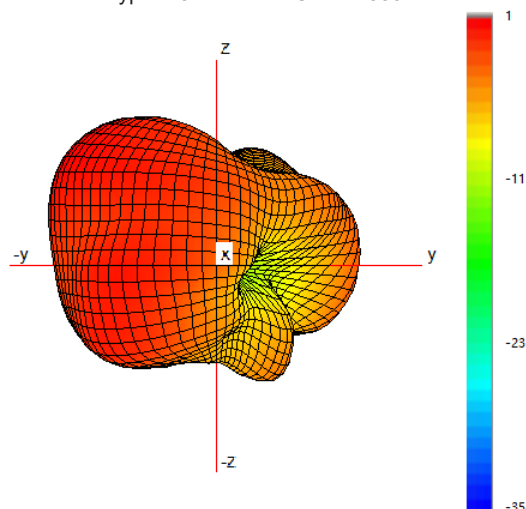
Typical 3D Pattern- Cell A - 750 MHz



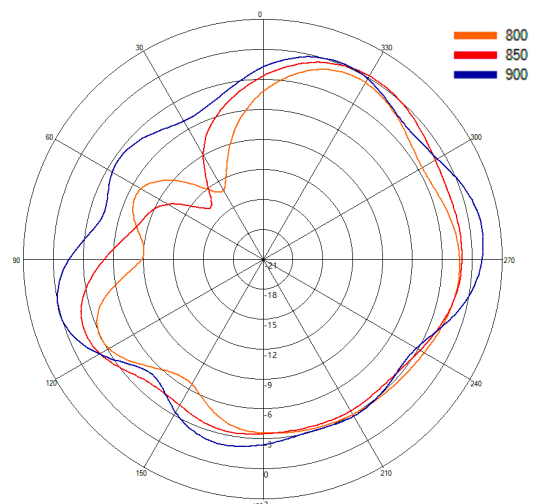
Typical H Plane- Cell A - Patterns- 700-800MHz



Typical 3D Pattern- Cell A - 850 MHz



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



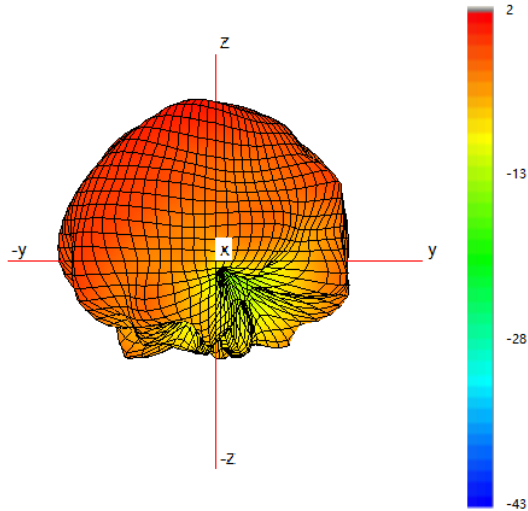
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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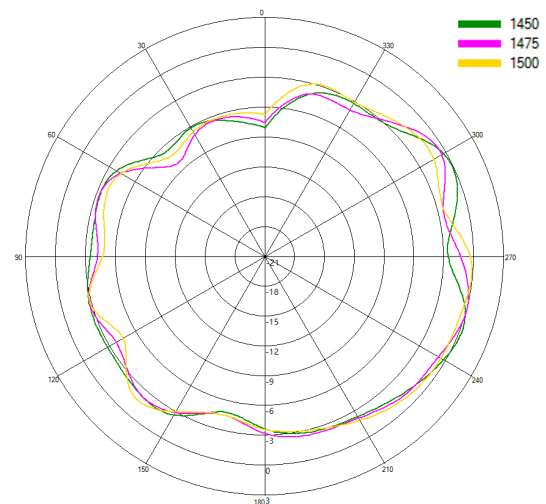
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3D Pattern Data in
Free Space Cell A

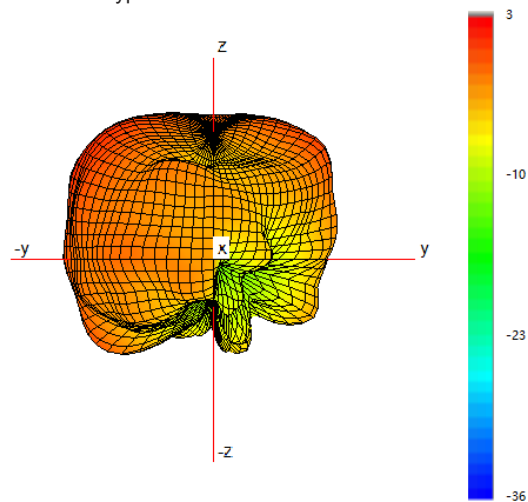
Typical 3D Pattern- Cell A - 1475 MHz



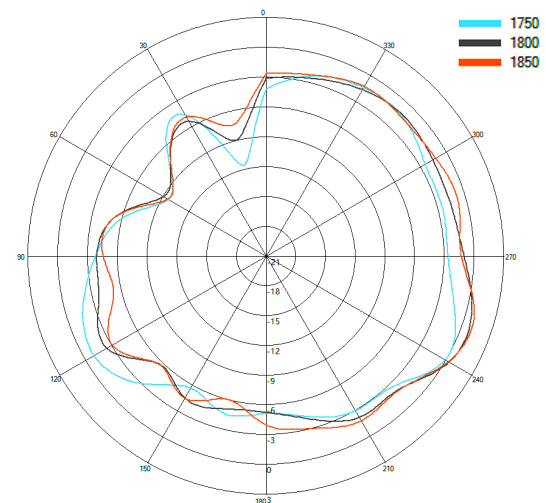
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



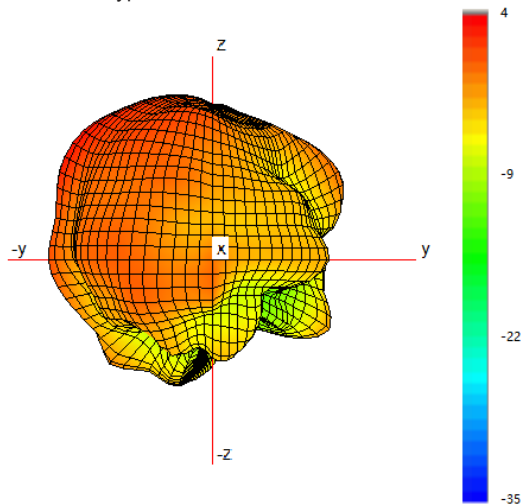
Typical 3D Pattern- Cell A - 1800 MHz



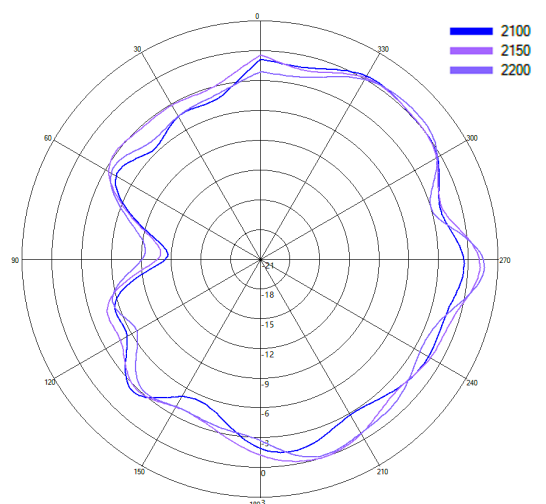
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



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



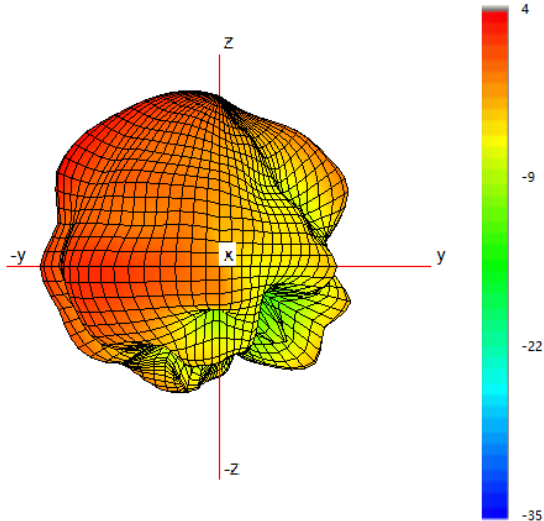
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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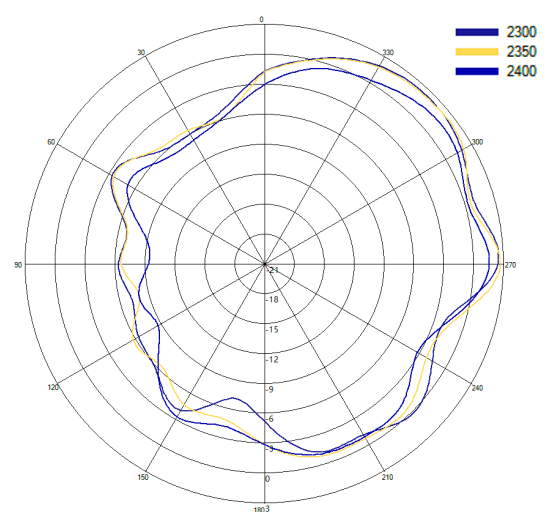
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell A

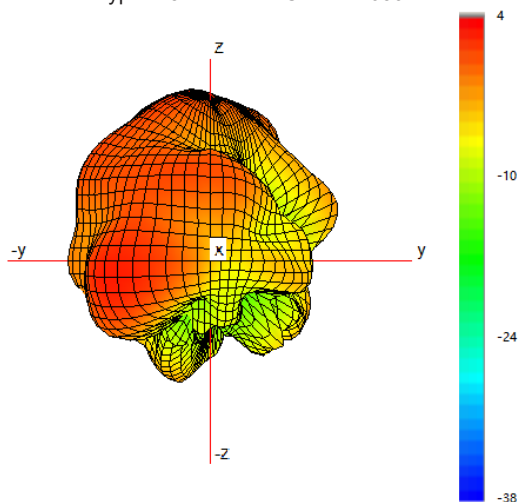
Typical 3D Pattern- Cell A - 2350 MHz



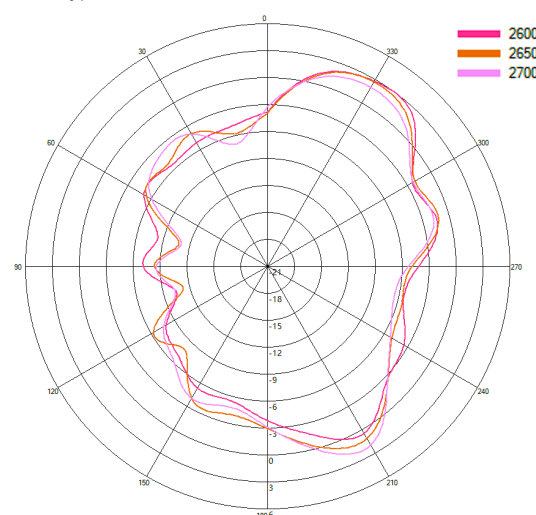
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



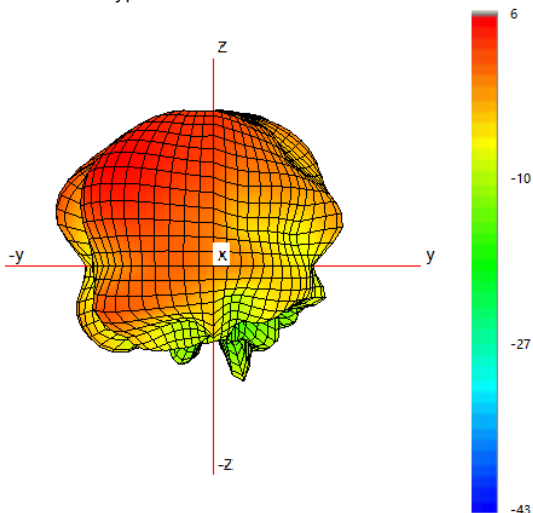
Typical 3D Pattern- Cell A - 2650 MHz



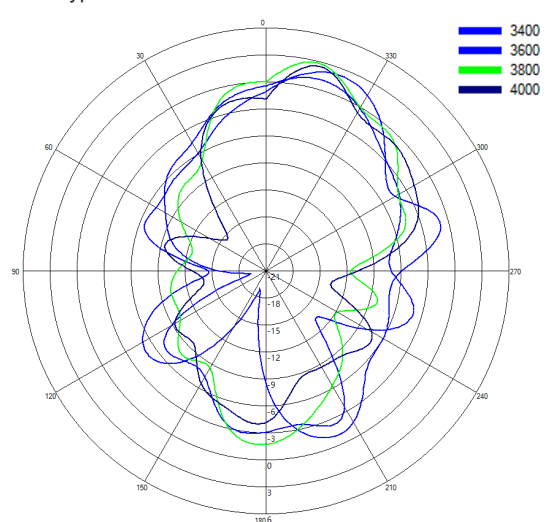
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



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



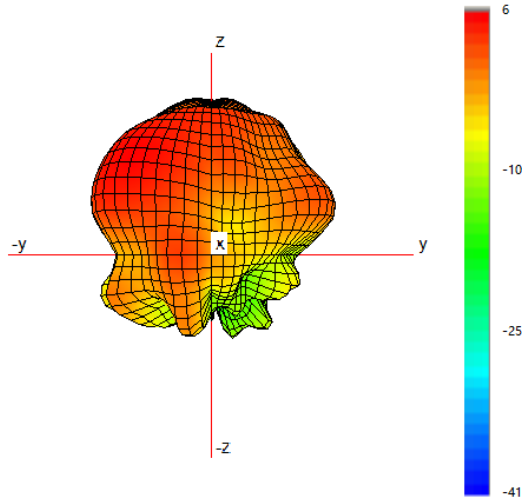
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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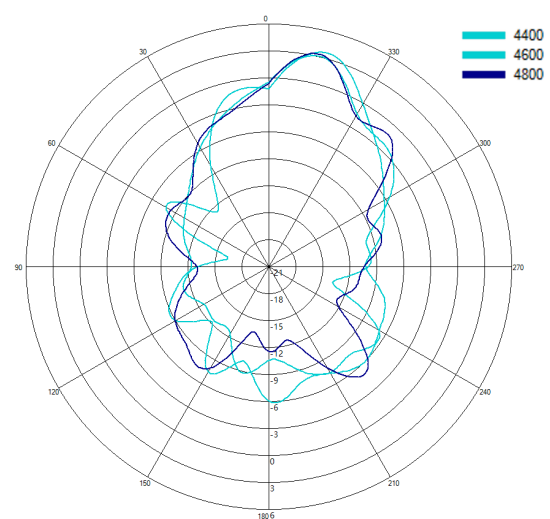
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3D Pattern Data in
Free Space Cell A

Typical 3D Pattern- Cell A - 4700 MHz



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



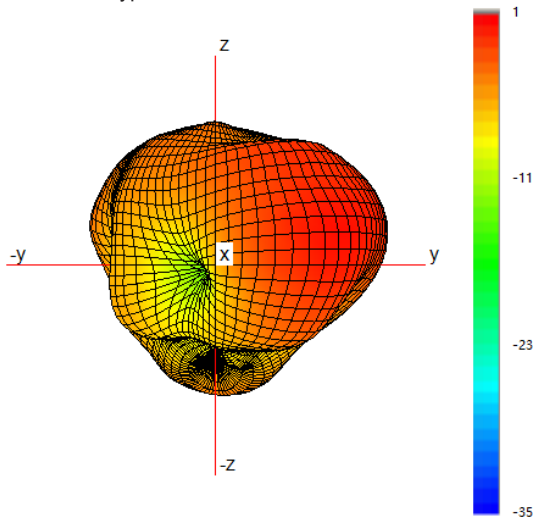
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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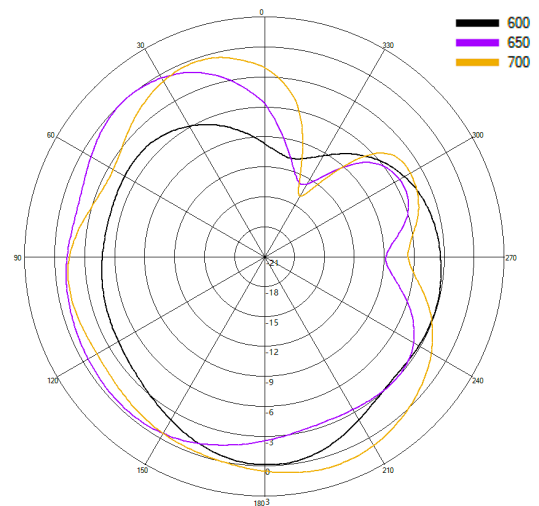
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3D Pattern Data in
Free Space Cell B

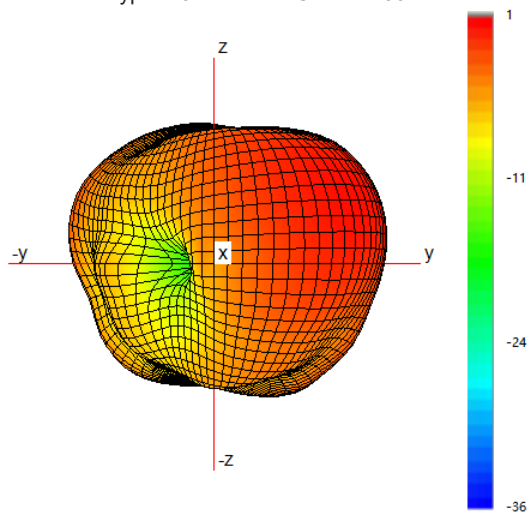
Typical 3D Pattern- Cell B - 650 MHz



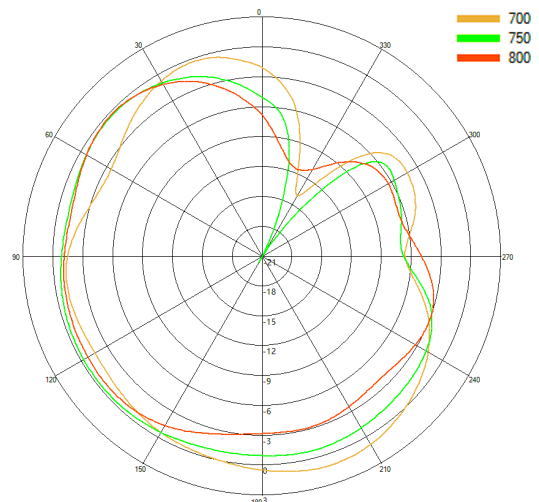
Typical H Plane- Cell B - Patterns- 600-700MHz



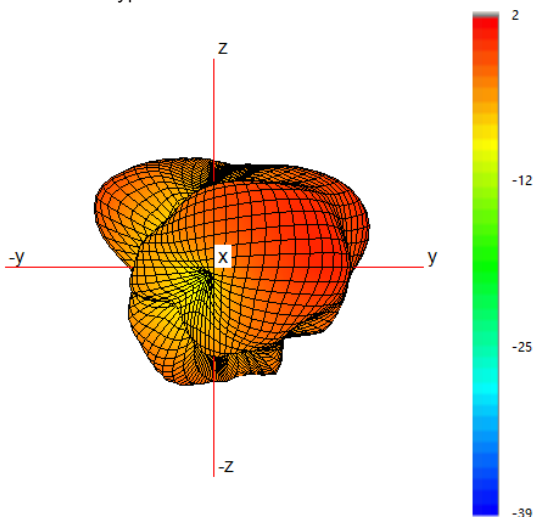
Typical 3D Pattern- Cell B - 750 MHz



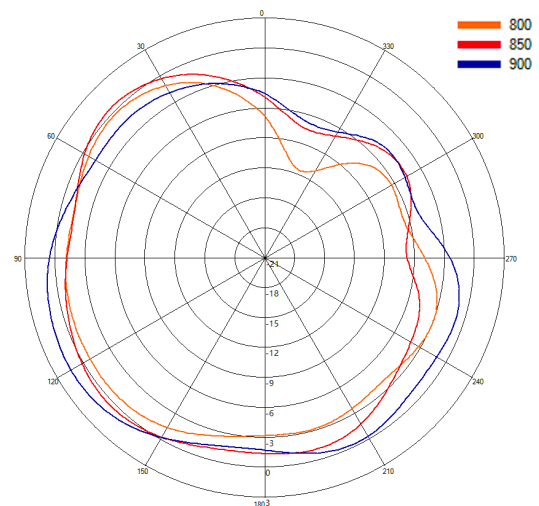
Typical H Plane- Cell B - Patterns- 700-800MHz



Typical 3D Pattern- Cell B - 850 MHz



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



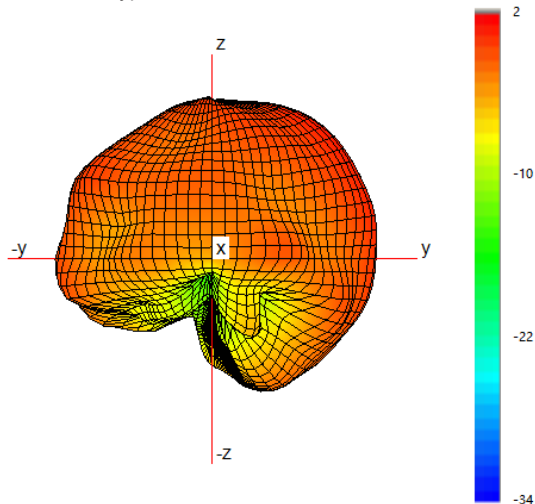
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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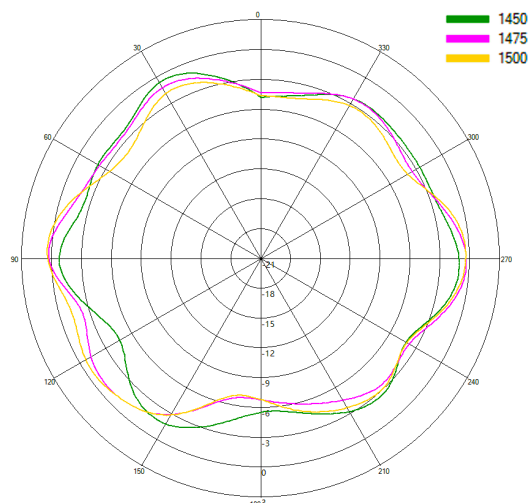
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3D Pattern Data in
Free Space Cell B

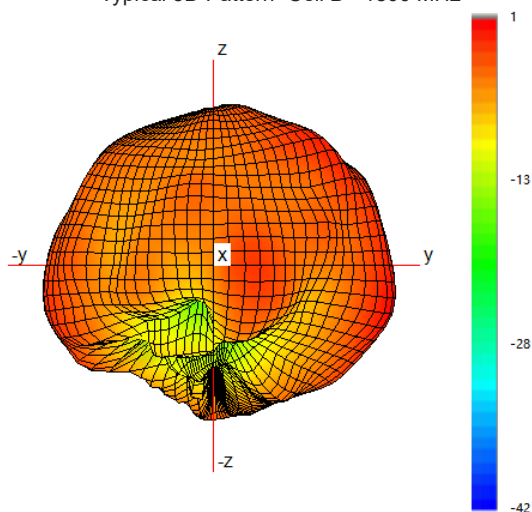
Typical 3D Pattern- Cell B - 1475 MHz



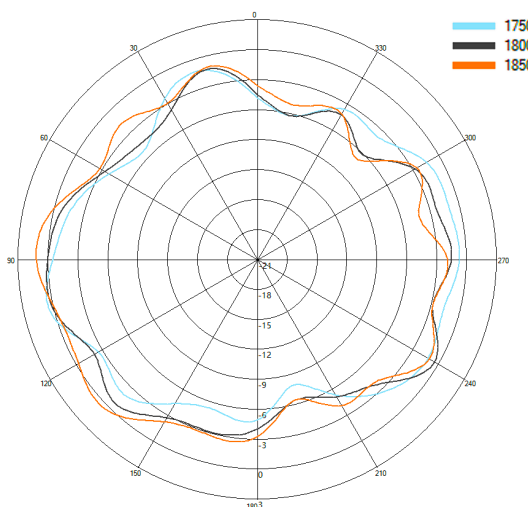
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



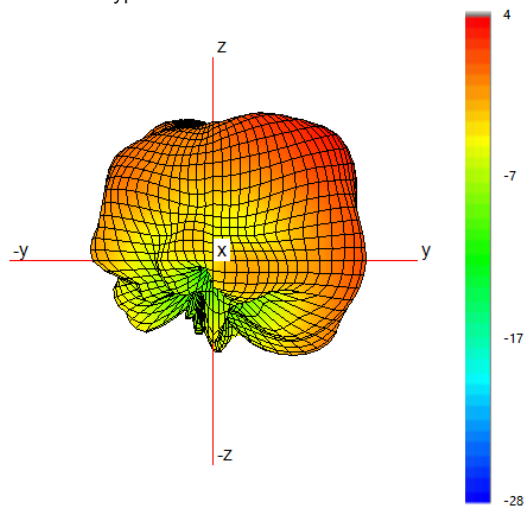
Typical 3D Pattern- Cell B - 1800 MHz



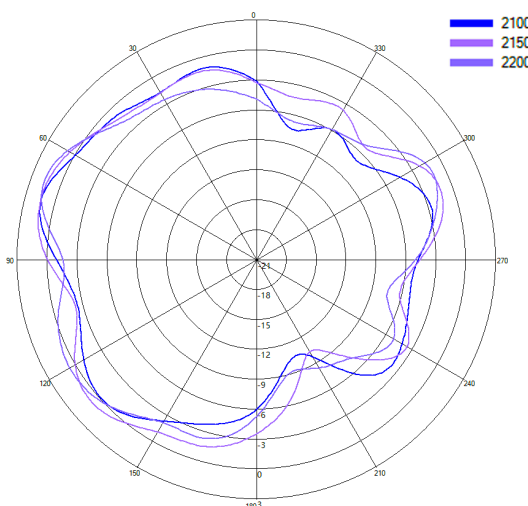
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



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



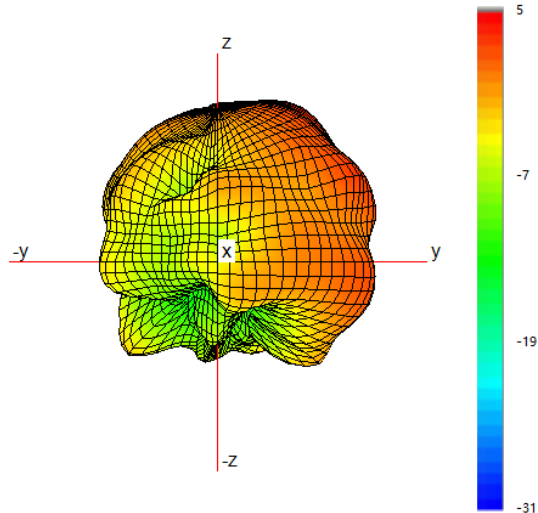
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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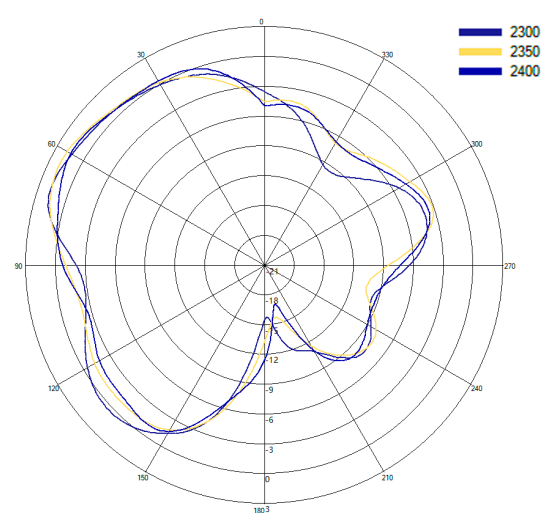
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3D Pattern Data in
Free Space Cell B

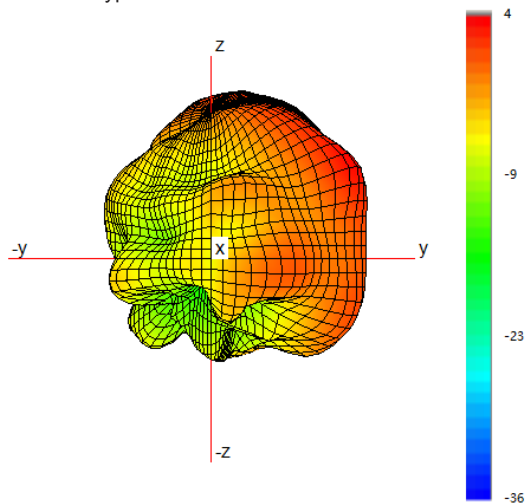
Typical 3D Pattern- Cell B - 2350 MHz



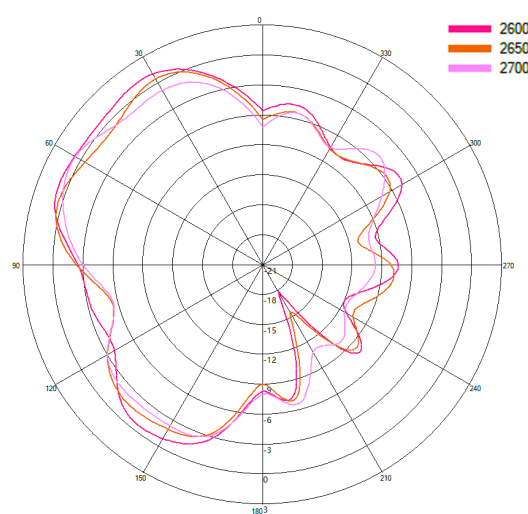
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



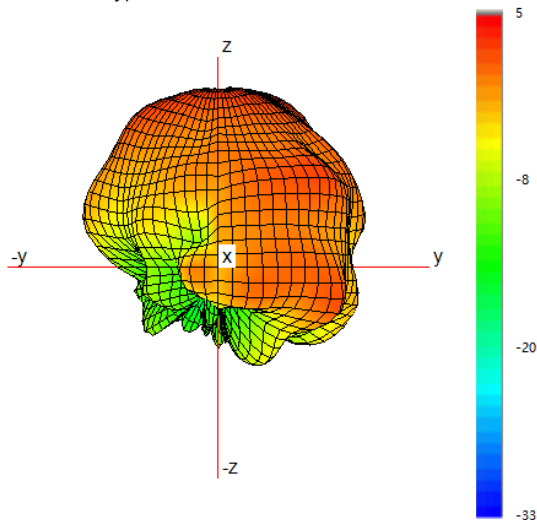
Typical 3D Pattern- Cell B - 2650 MHz



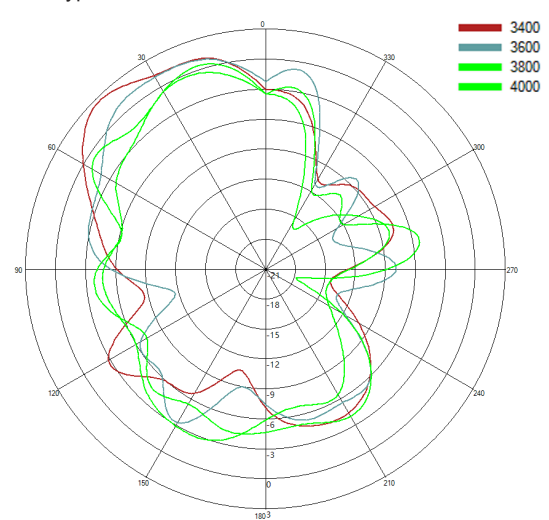
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



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



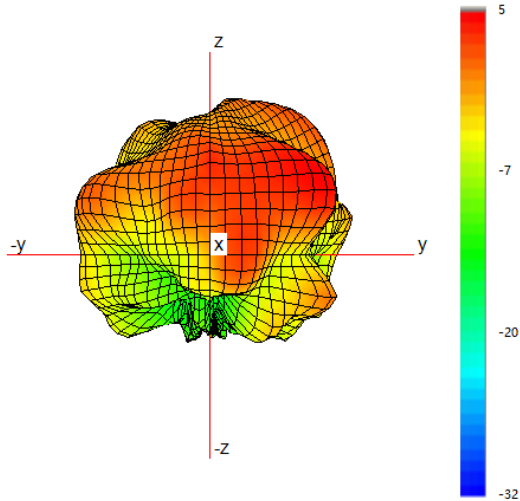
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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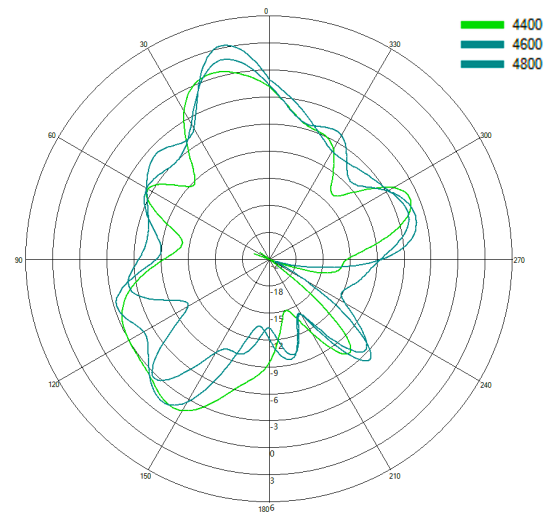
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3D Pattern Data in
Free Space Cell B

Typical 3D Pattern- Cell B - 4700 MHz



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



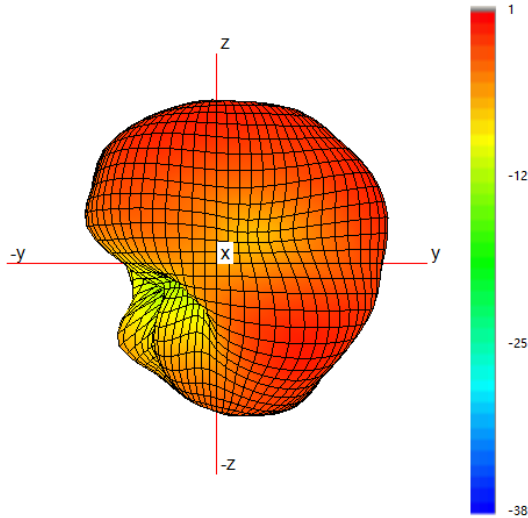
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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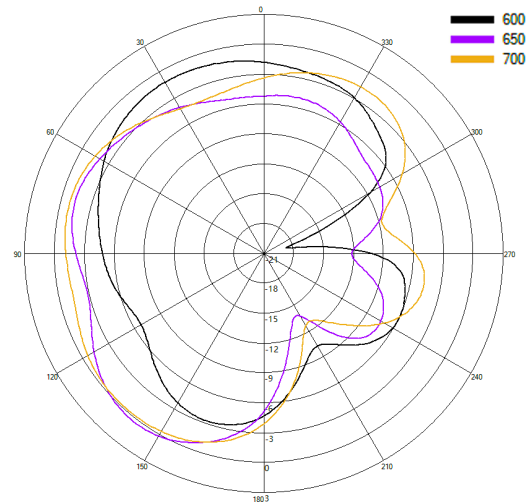
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3D Pattern Data in
Free Space Cell C

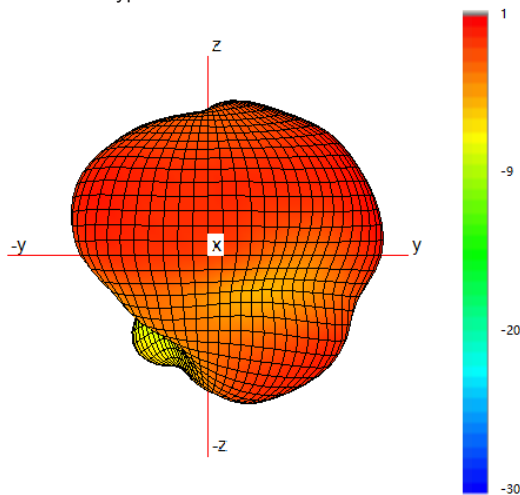
Typical 3D Pattern- Cell C - 650 MHz



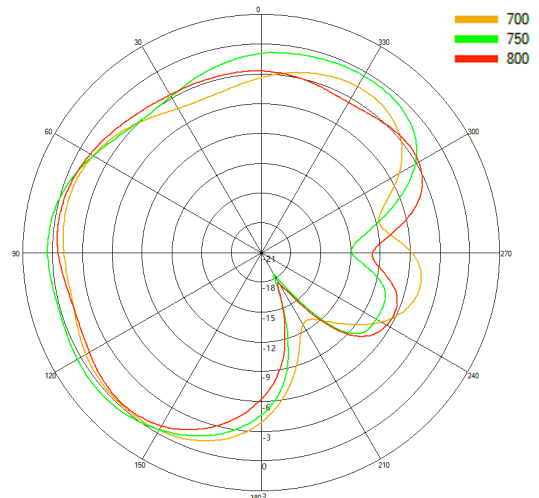
Typical H Plane- Cell C - Patterns- 600-700MHz



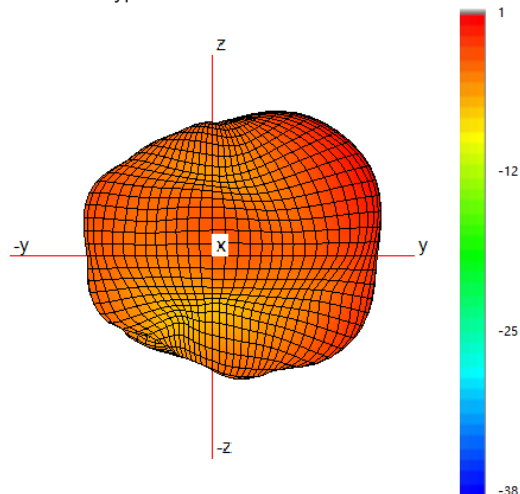
Typical 3D Pattern- Cell C - 750 MHz



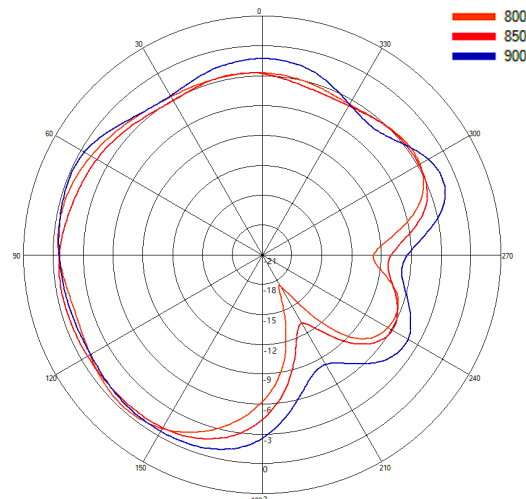
Typical H Plane- Cell C - Patterns- 700-800MHz



Typical 3D Pattern- Cell C - 850 MHz



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



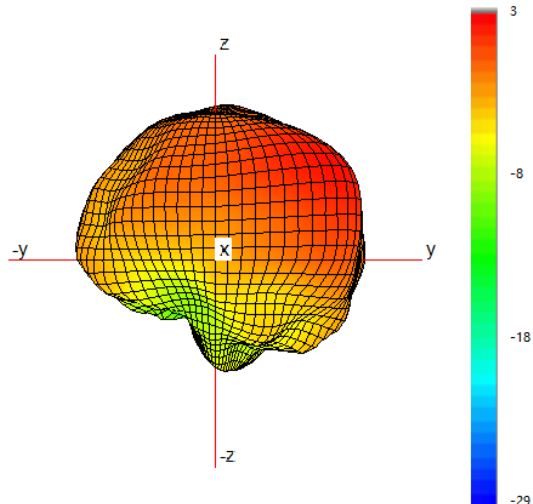
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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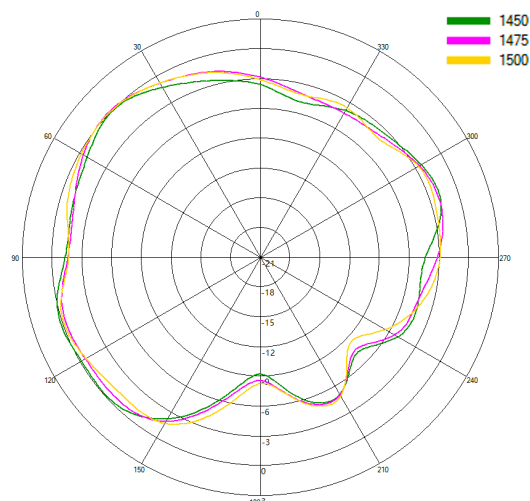
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3D Pattern Data in
Free Space Cell C

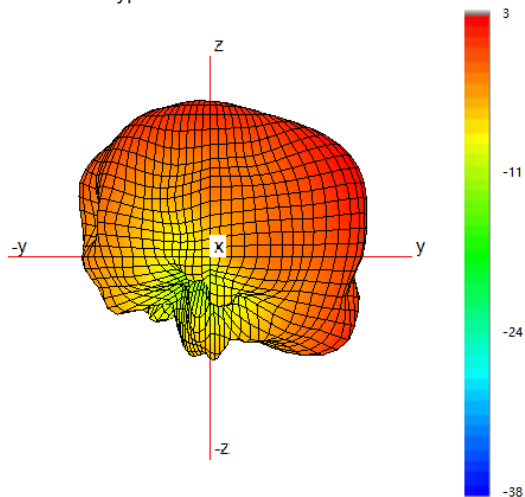
Typical 3D Pattern- Cell C - 1475 MHz



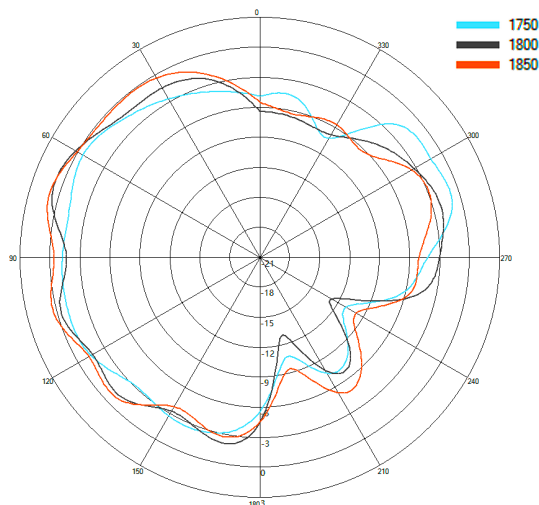
Typical H Plane- Cell C- Patterns- 1450-1500 MHz



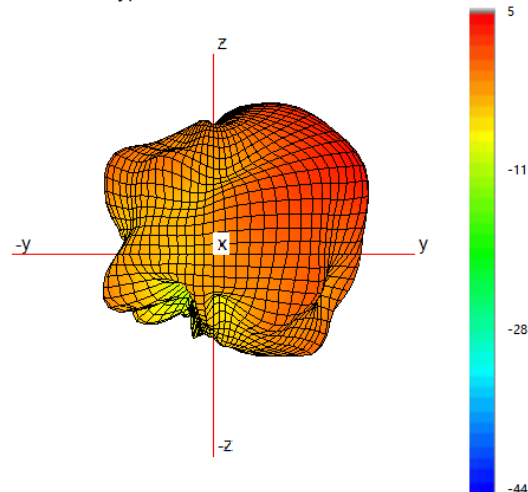
Typical 3D Pattern- Cell C - 1800 MHz



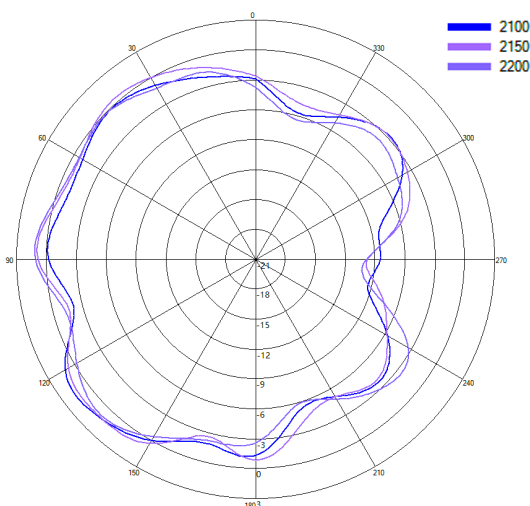
Typical H Plane- Cell C- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell C - 2150 MHz



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



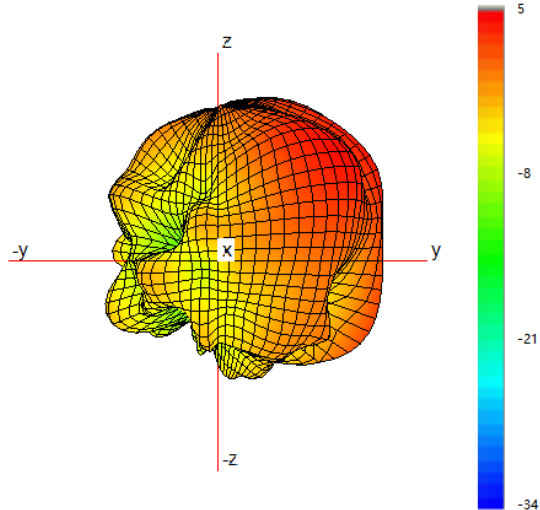
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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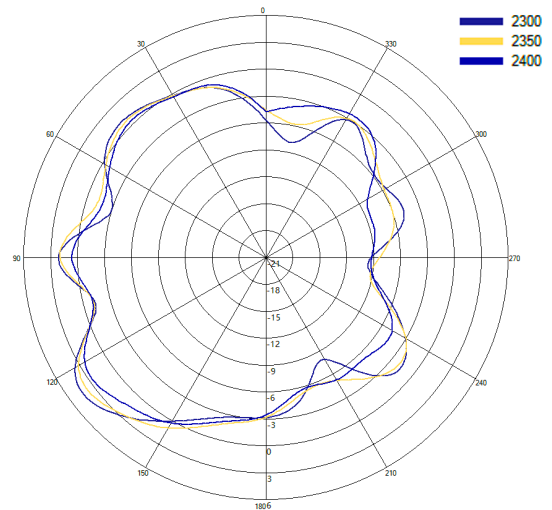
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3D Pattern Data in
Free Space Cell C

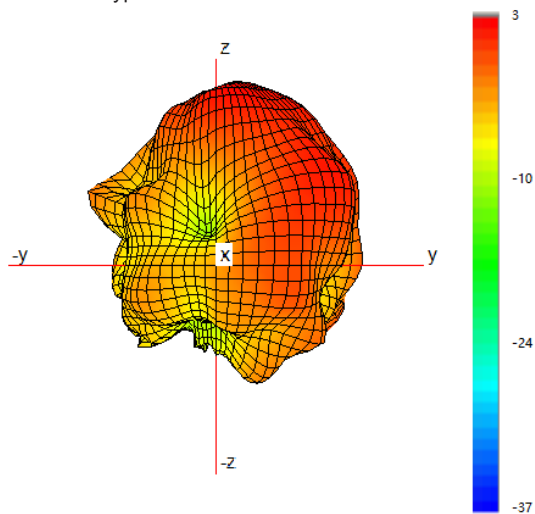
Typical 3D Pattern- Cell C - 2350 MHz



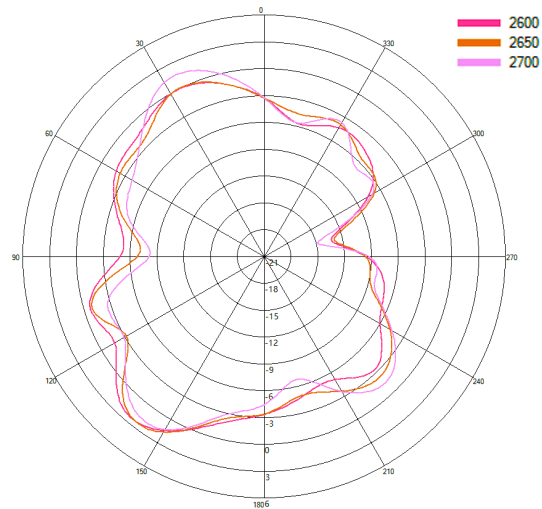
Typical H Plane- Cell C - Patterns- 2300-2400 MHz



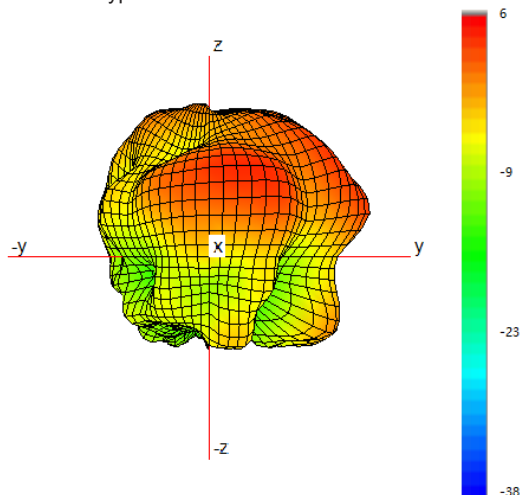
Typical 3D Pattern- Cell C - 2650 MHz



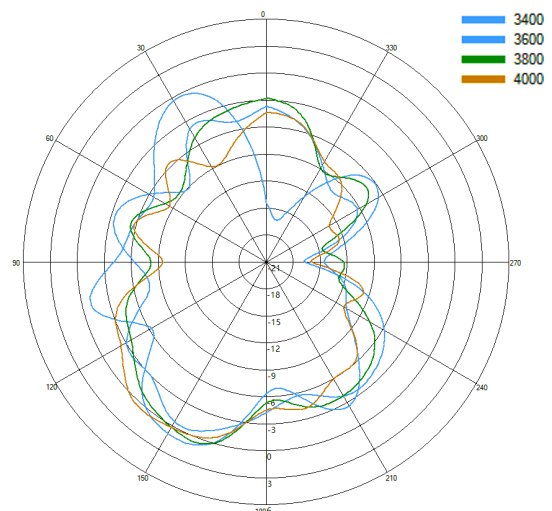
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell C - 3600 MHz



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



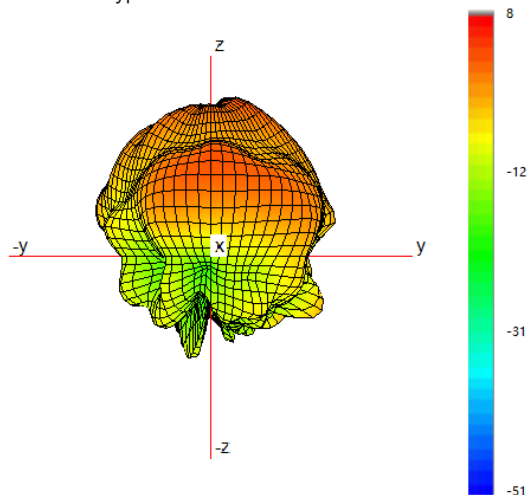
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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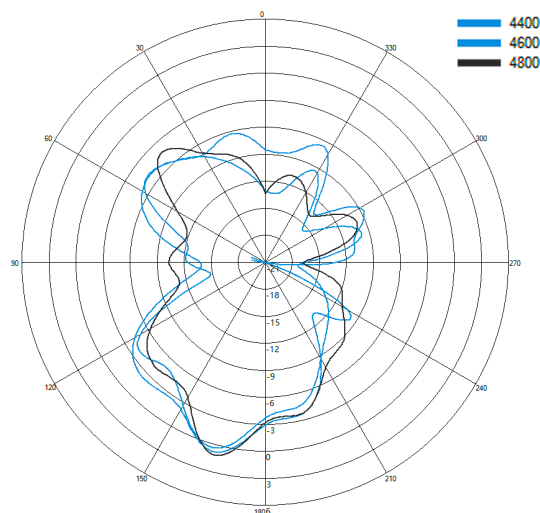
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3D Pattern Data in
Free Space Cell C

Typical 3D Pattern- Cell C - 4700 MHz



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



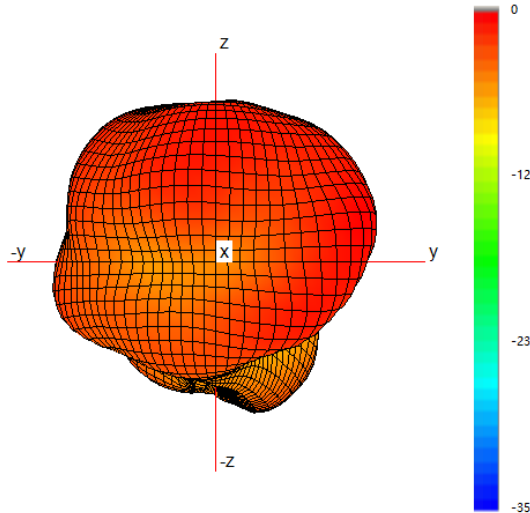
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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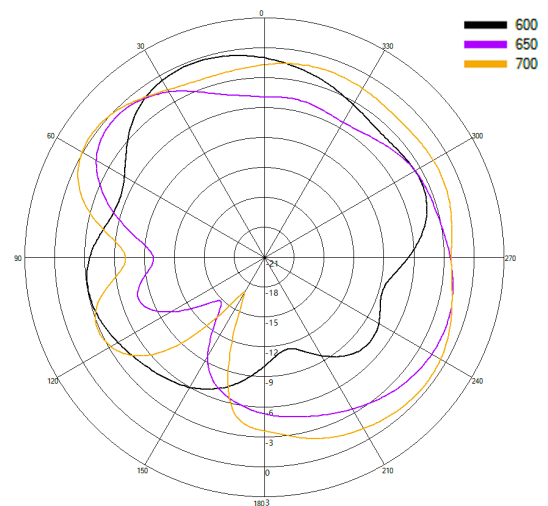
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3D Pattern Data in
Free Space Cell D

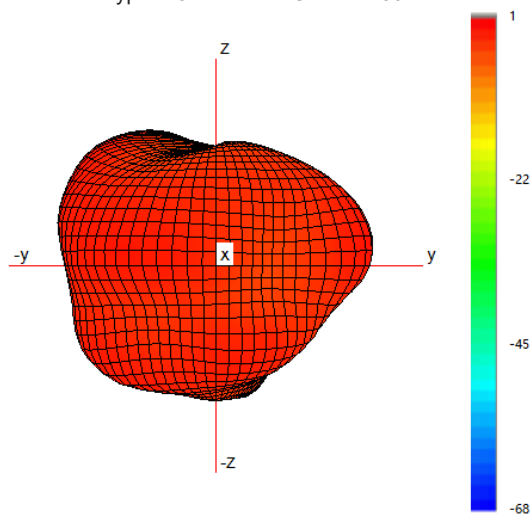
Typical 3D Pattern- Cell D - 650 MHz



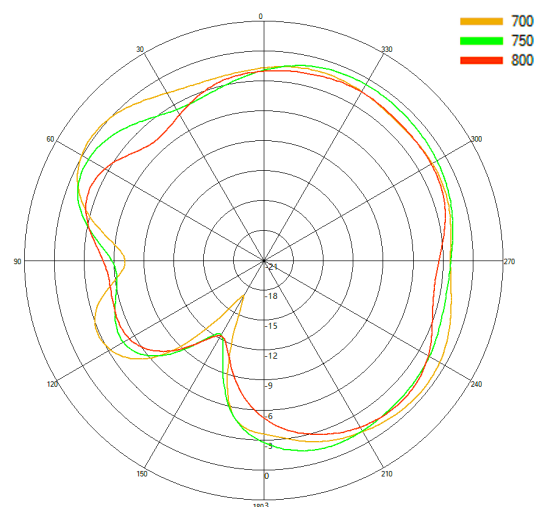
Typical H Plane- Cell D - Patterns- 600-700MHz



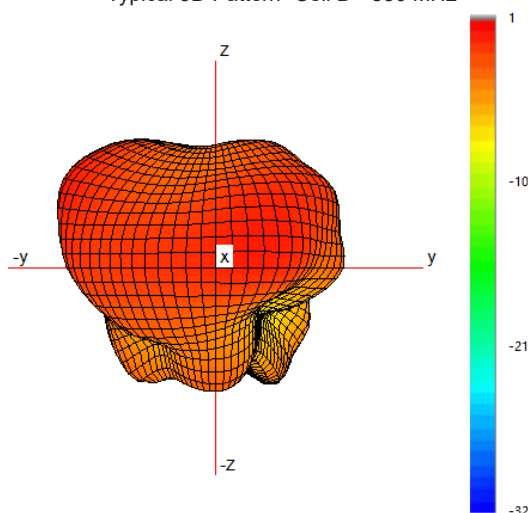
Typical 3D Pattern- Cell D - 750 MHz



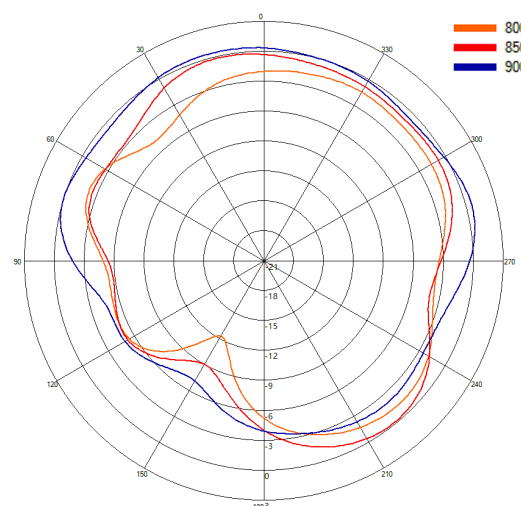
Typical H Plane- Cell D - Patterns- 700-800MHz



Typical 3D Pattern- Cell D - 850 MHz



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



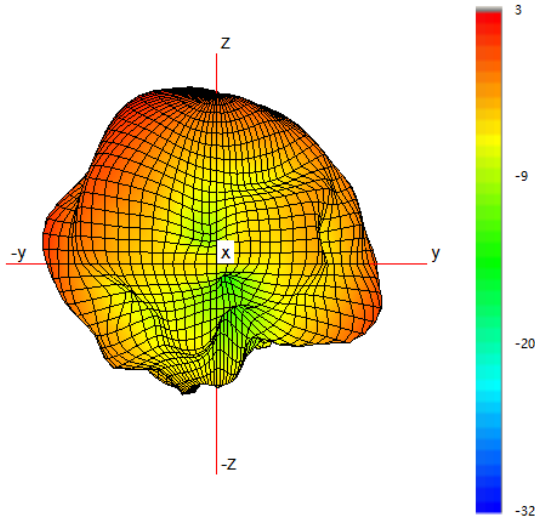
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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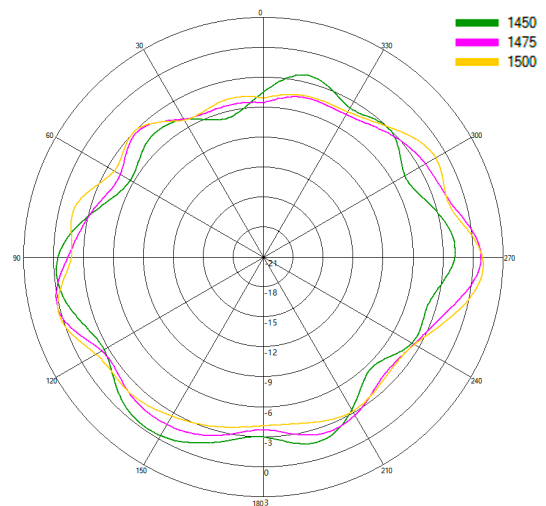
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3D Pattern Data in
Free Space Cell D

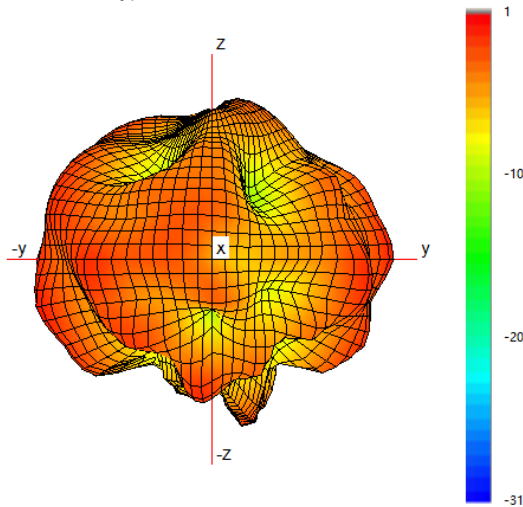
Typical 3D Pattern- Cell D - 1475 MHz



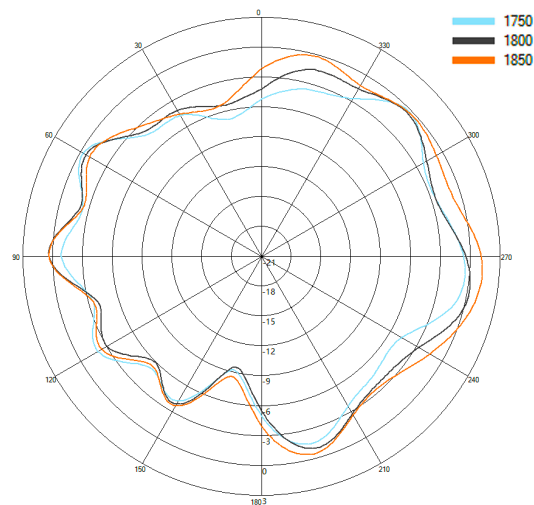
Typical H Plane- Cell D- Patterns- 1450-1500 MHz



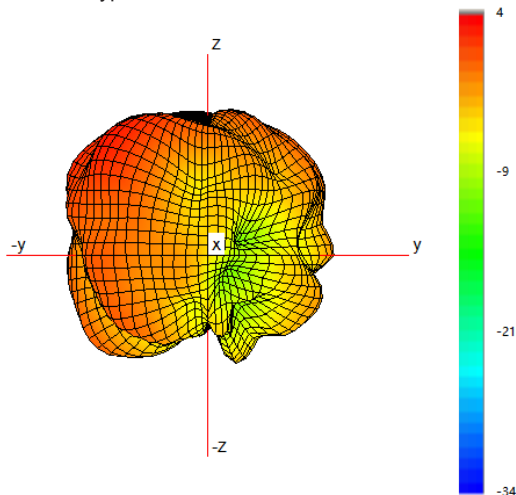
Typical 3D Pattern- Cell D- 1800 MHz



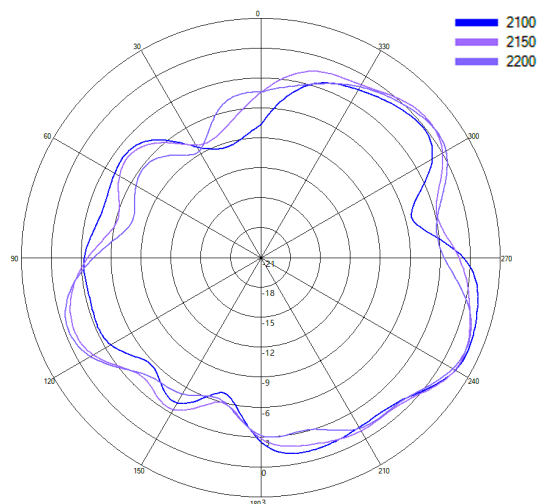
Typical H Plane- Cell D- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell D - 2150 MHz



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



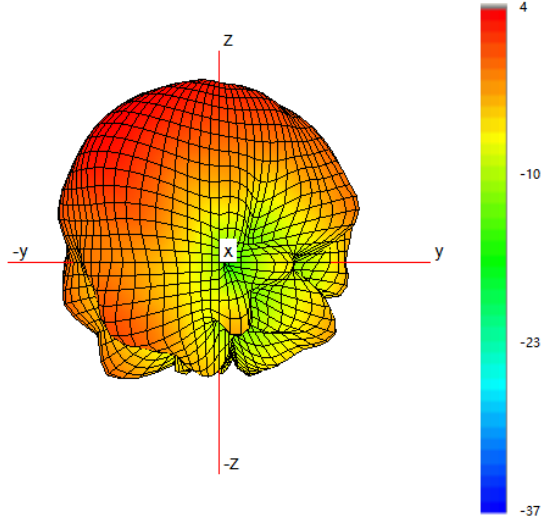
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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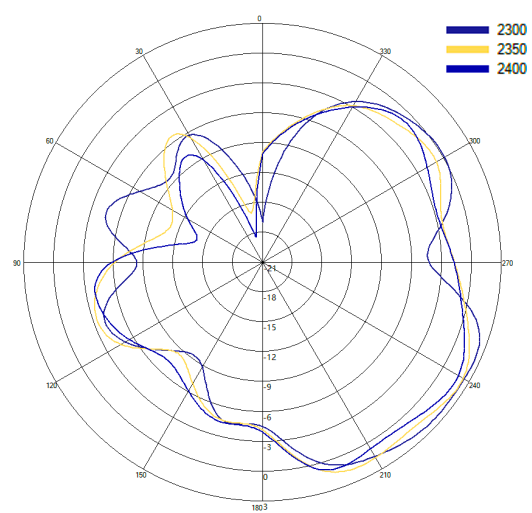
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3D Pattern Data in
Free Space Cell D

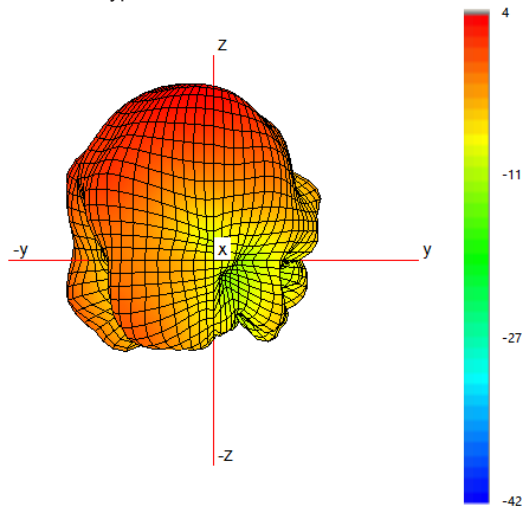
Typical 3D Pattern- Cell D - 2350 MHz



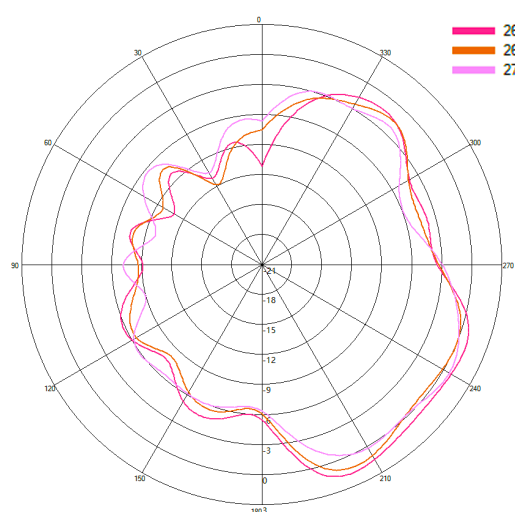
Typical H Plane- Cell D - Patterns- 2300-2400 MHz



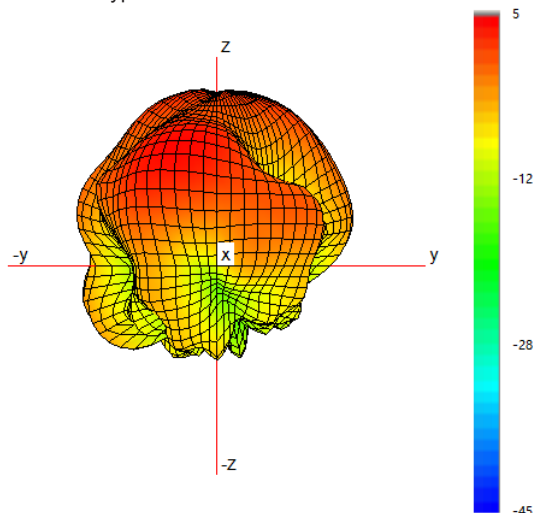
Typical 3D Pattern- Cell D - 2650 MHz



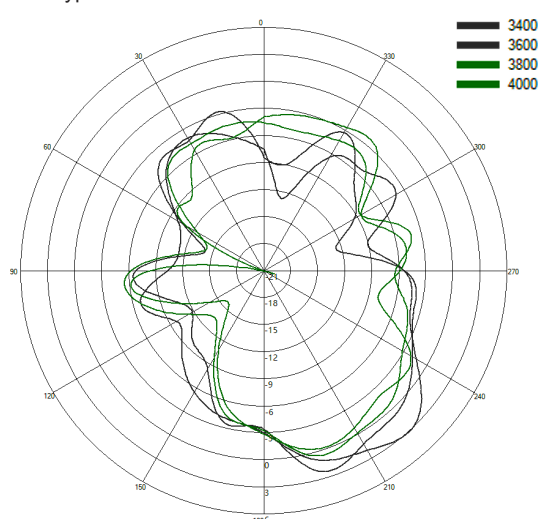
Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell D - 3600 MHz



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



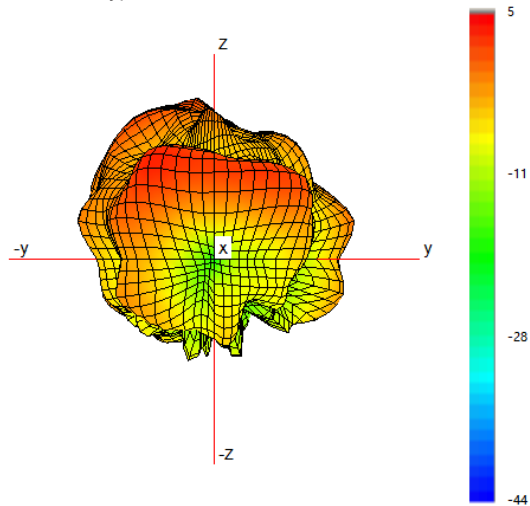
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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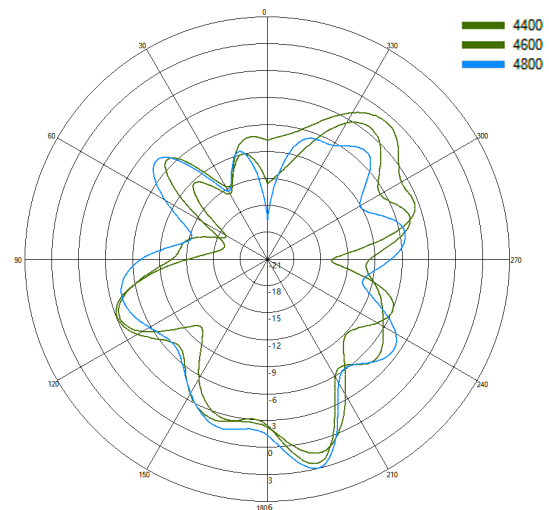
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3D Pattern Data in
Free Space Cell D

Typical 3D Pattern- Cell D - 4700 MHz



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



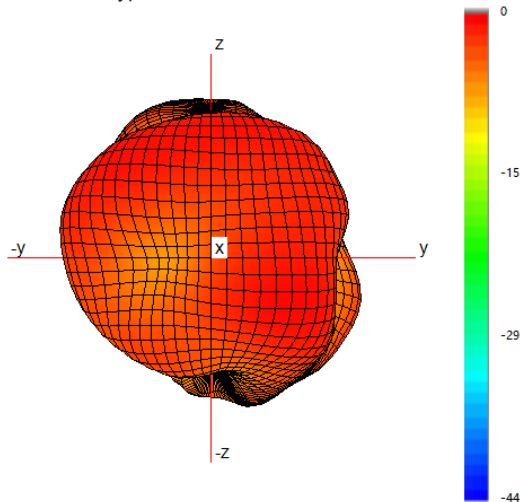
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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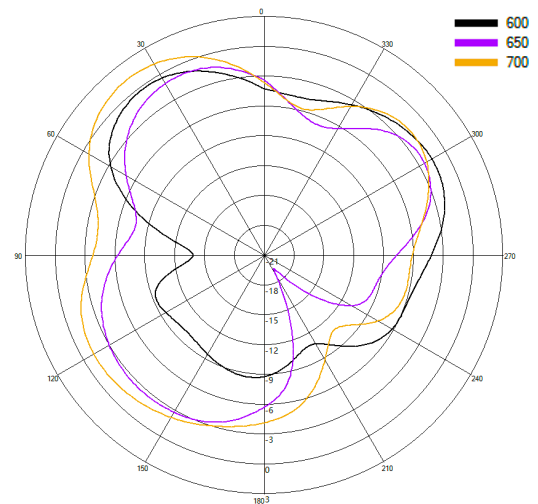
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3D Pattern Data in
Free Space Cell E

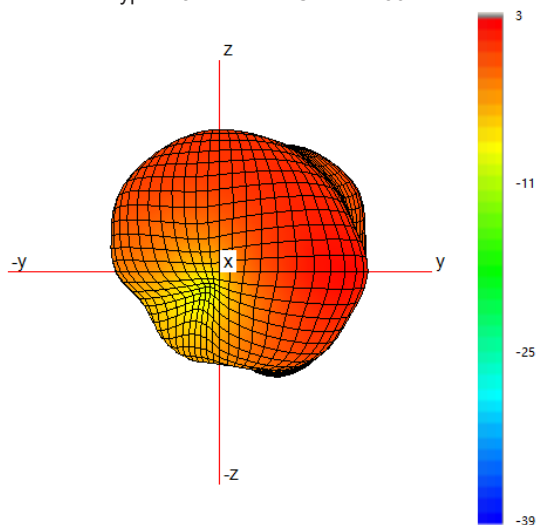
Typical 3D Pattern- Cell E - 650 MHz



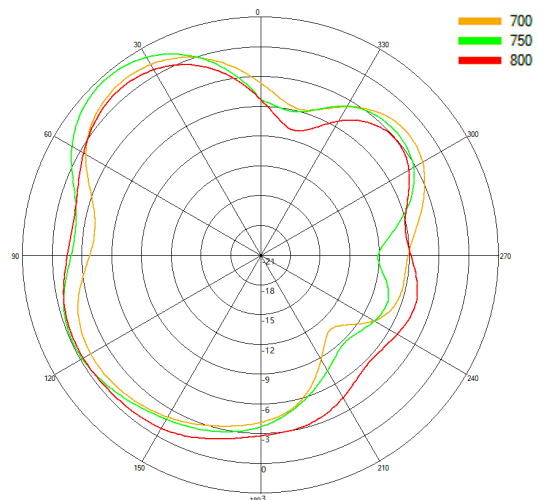
Typical H Plane- Cell E - Patterns- 600-700MHz



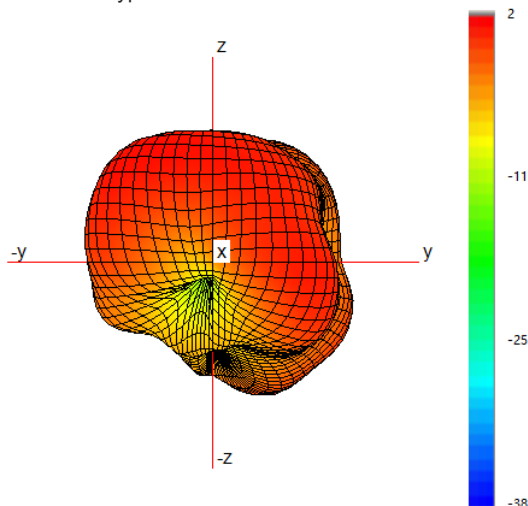
Typical 3D Pattern- Cell E - 750 MHz



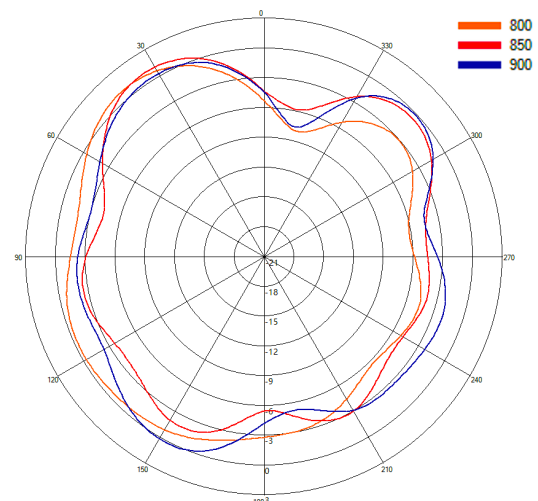
Typical H Plane- Cell E - Patterns- 700-800MHz



Typical 3D Pattern- Cell E - 850 MHz



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



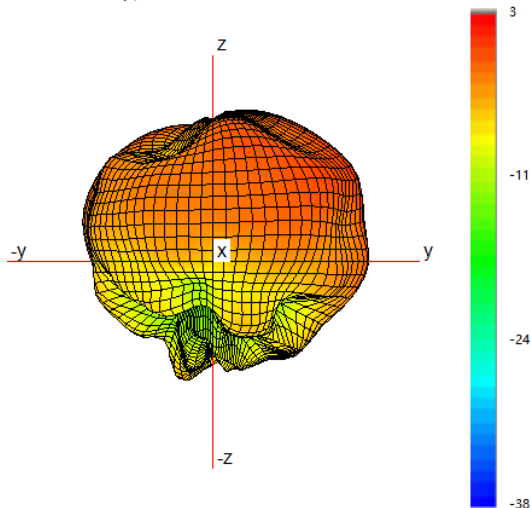
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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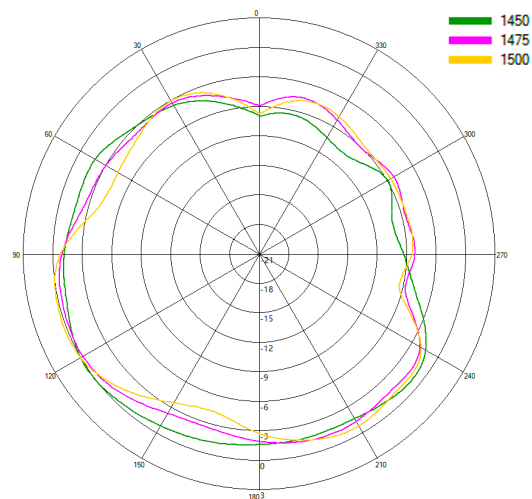
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3D Pattern Data in
Free Space Cell E

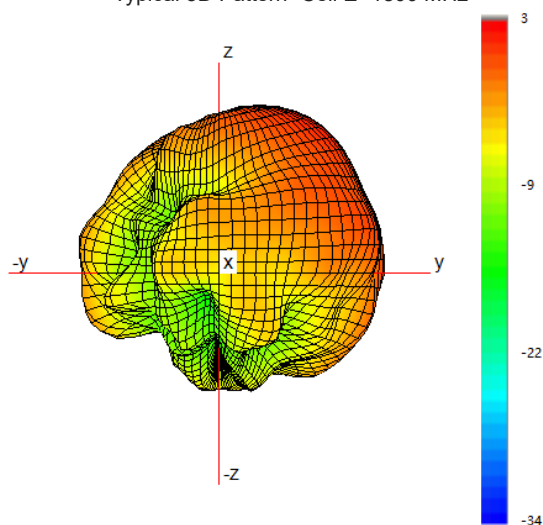
Typical 3D Pattern- Cell E - 1475 MHz



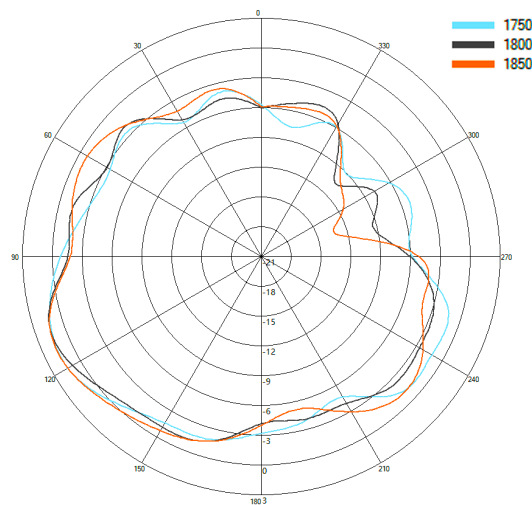
Typical H Plane- Cell E- Patterns- 1450-1500 MHz



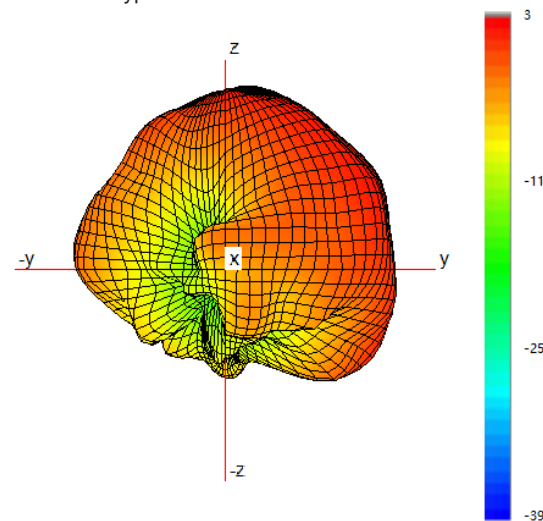
Typical 3D Pattern- Cell E- 1800 MHz



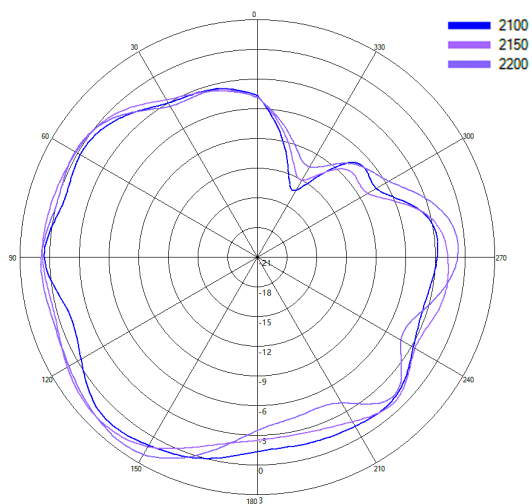
Typical H Plane- Cell E- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell E - 2150 MHz



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



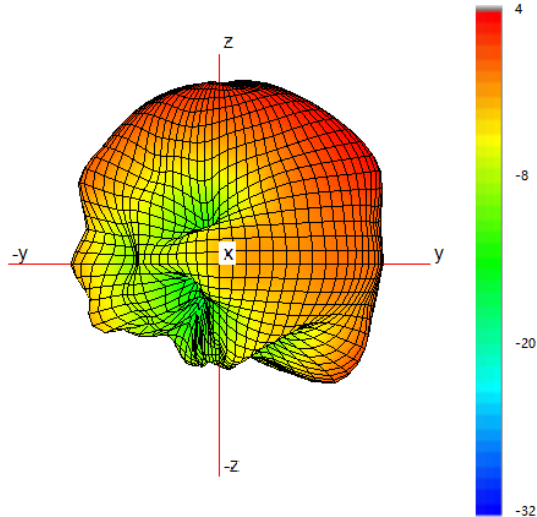
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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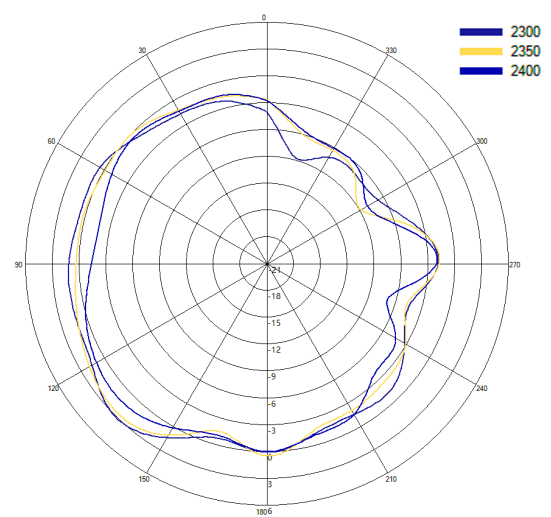
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3D Pattern Data in
Free Space Cell E

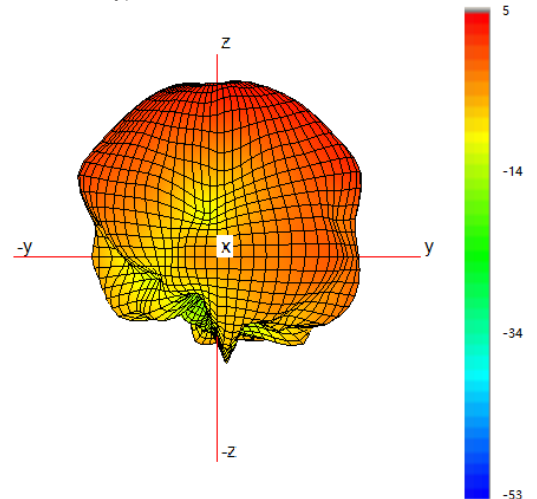
Typical 3D Pattern- Cell E - 2350 MHz



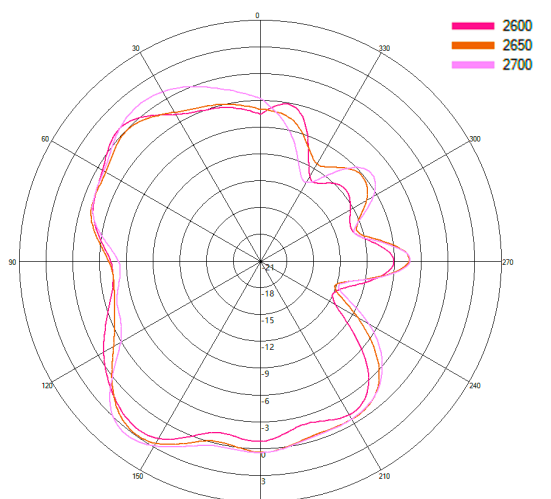
Typical H Plane- Cell E - Patterns- 2300-2400 MHz



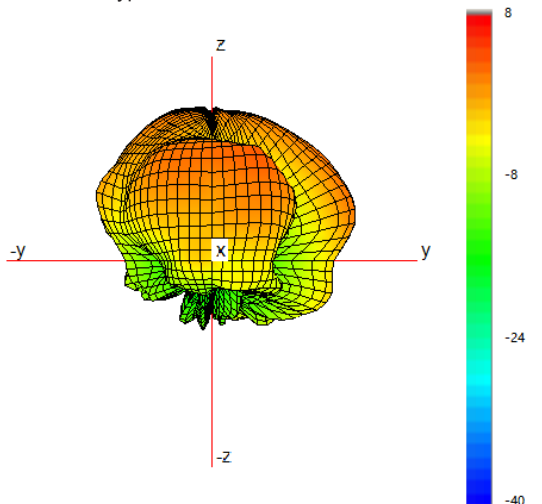
Typical 3D Pattern- Cell E - 2650 MHz



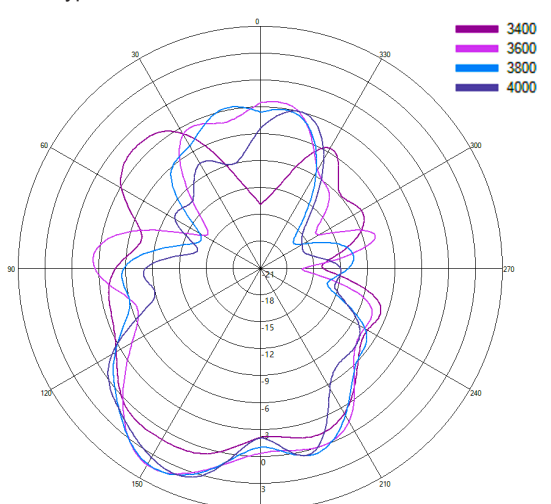
Typical H Plane- Cell E - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell E - 3600 MHz



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



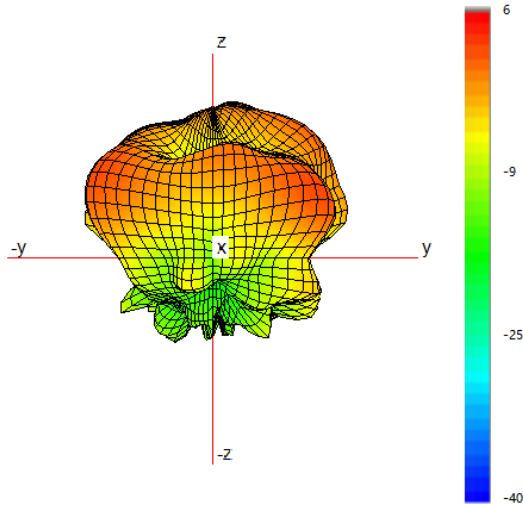
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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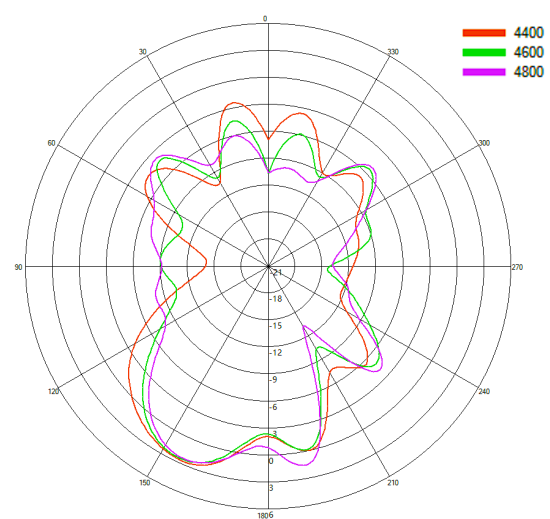
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3D Pattern Data in
Free Space Cell E

Typical 3D Pattern- Cell E - 4700 MHz



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



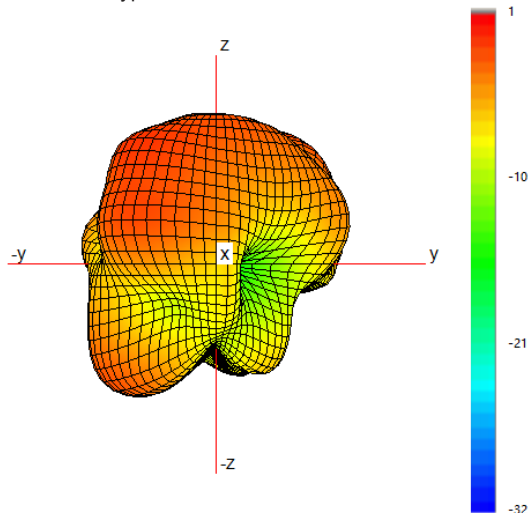
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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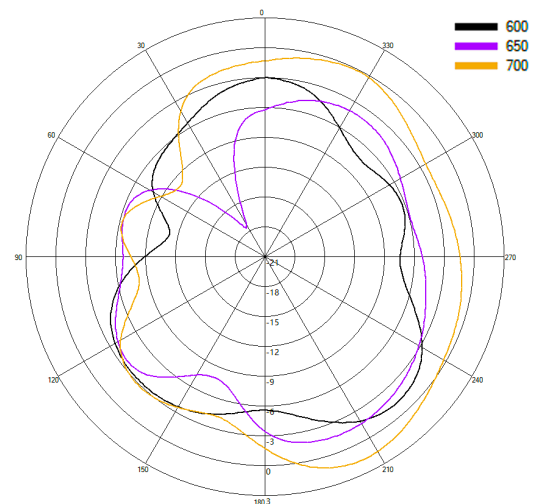
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3D Pattern Data in
Free Space Cell F

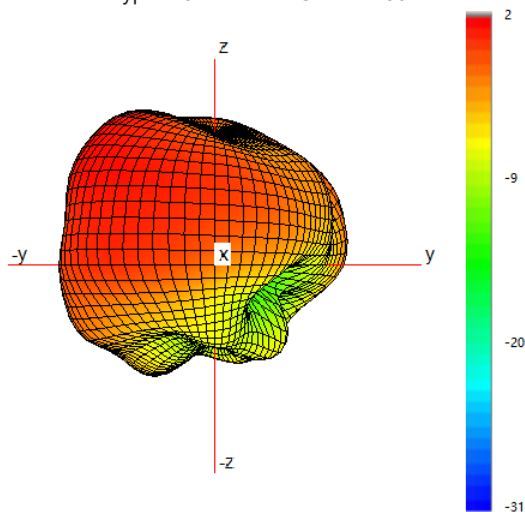
Typical 3D Pattern- Cell F - 650 MHz



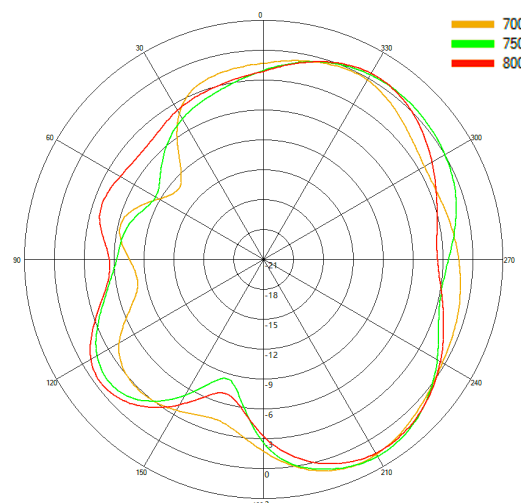
Typical H Plane- Cell F - Patterns- 600-700MHz



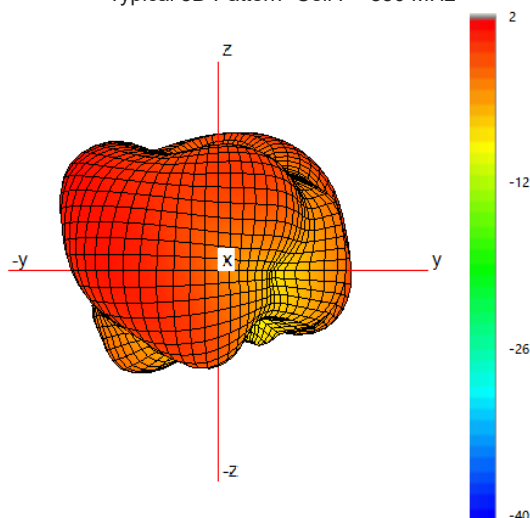
Typical 3D Pattern- Cell F - 750 MHz



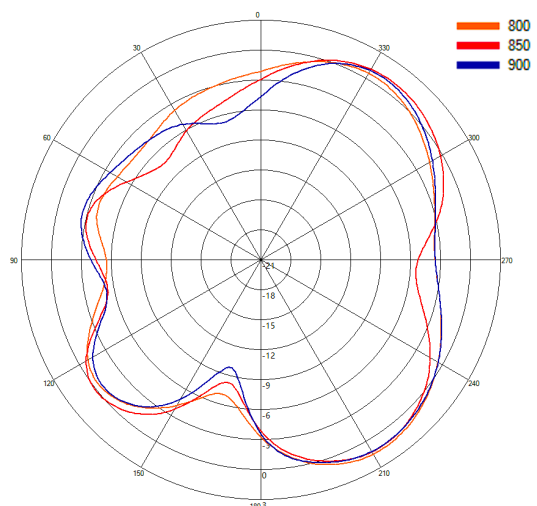
Typical H Plane- Cell F - Patterns- 700-800MHz



Typical 3D Pattern- Cell F - 850 MHz



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



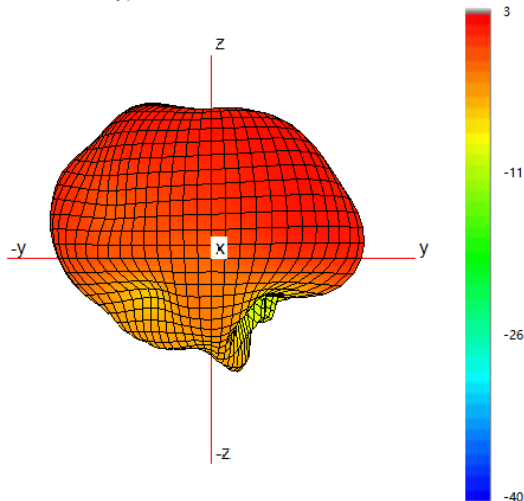
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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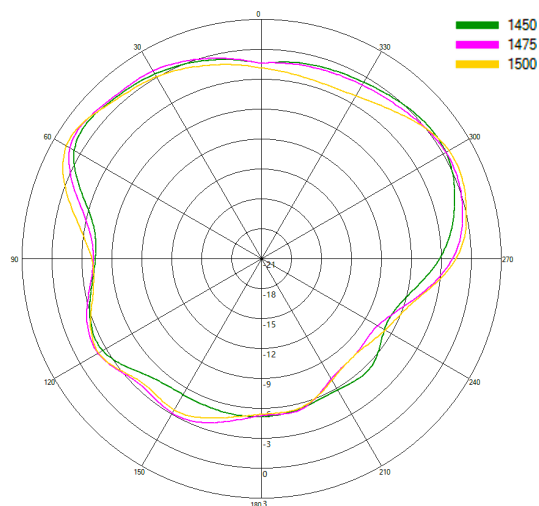
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3D Pattern Data in
Free Space Cell F

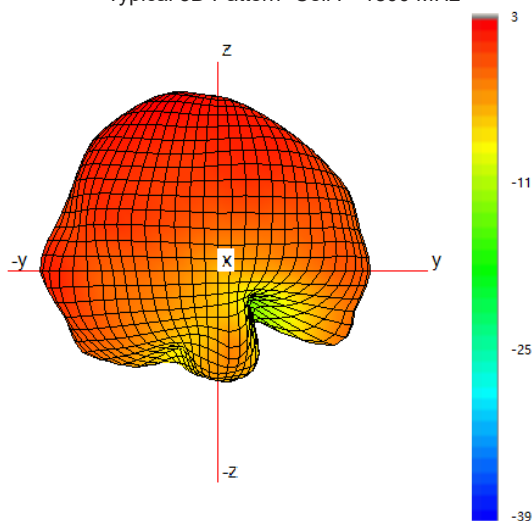
Typical 3D Pattern- Cell F - 1475 MHz



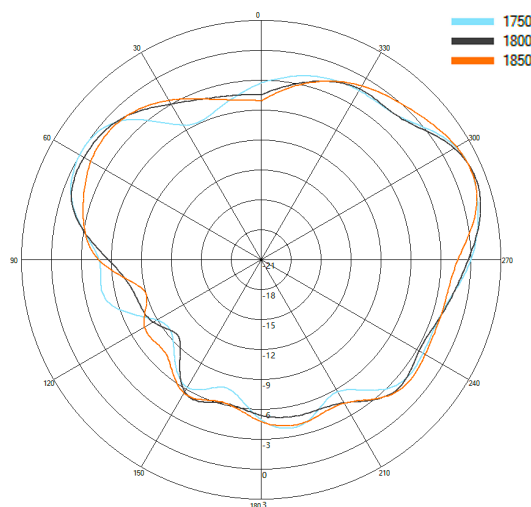
Typical H Plane- Cell F- Patterns- 1450-1500 MHz



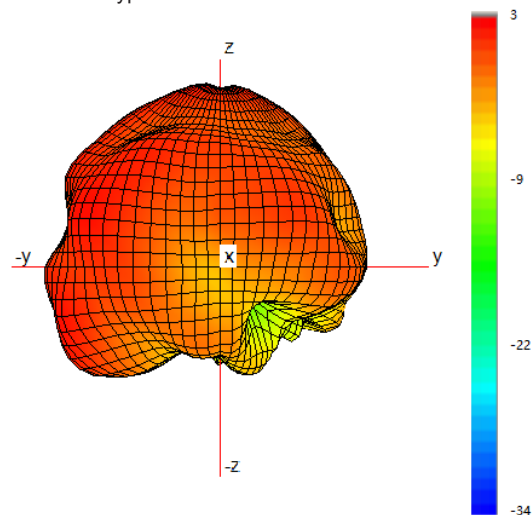
Typical 3D Pattern- Cell F- 1800 MHz



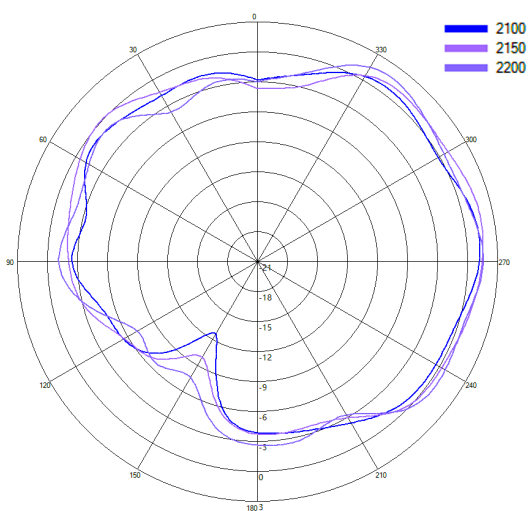
Typical H Plane- Cell F- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell F - 2150 MHz



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



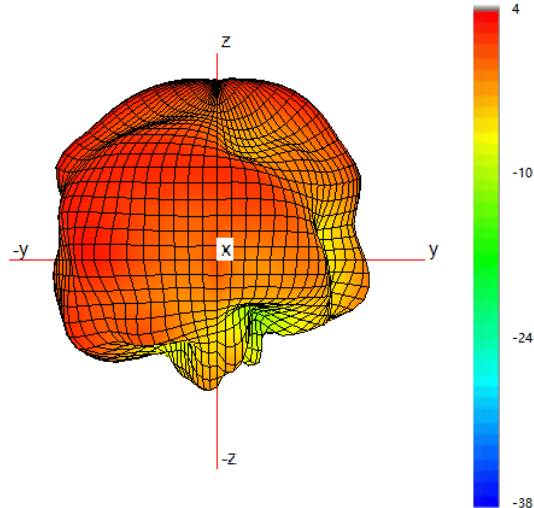
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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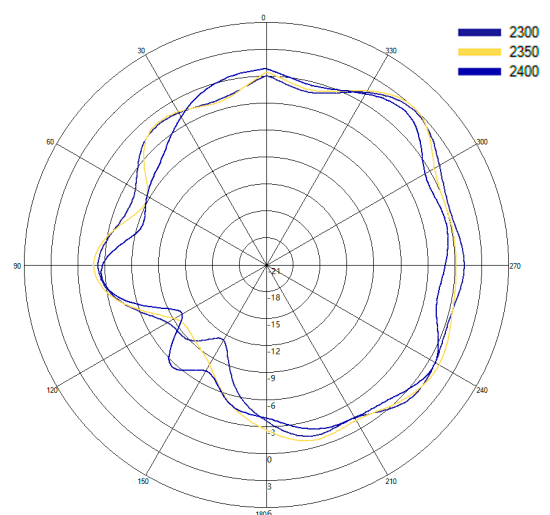
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3D Pattern Data in
Free Space Cell F

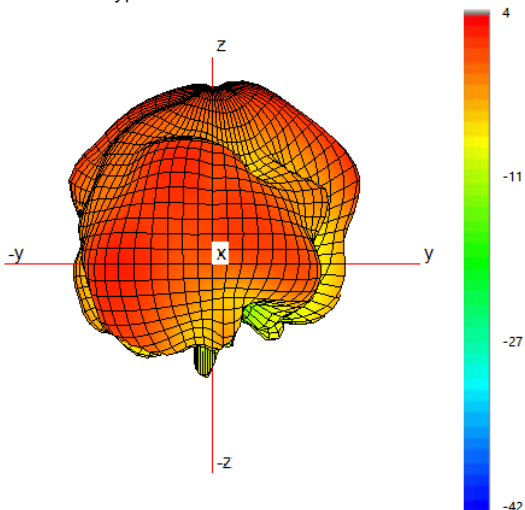
Typical 3D Pattern- Cell F - 2350 MHz



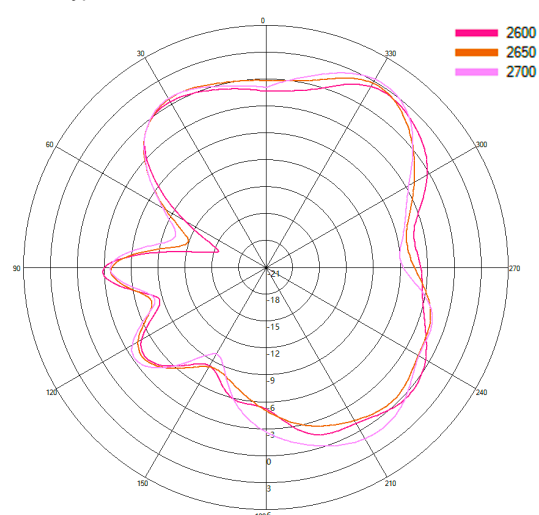
Typical H Plane- Cell F - Patterns- 2300-2400 MHz



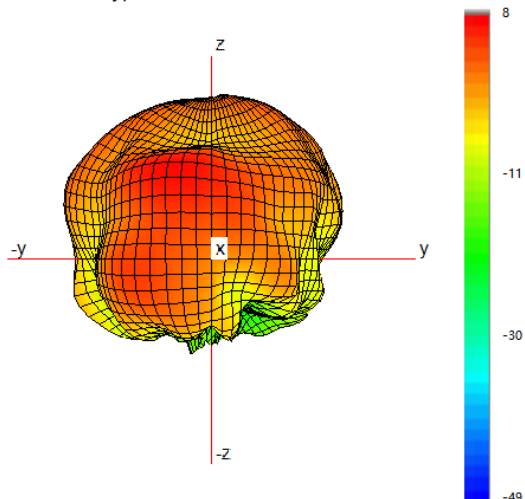
Typical 3D Pattern- Cell F - 2650 MHz



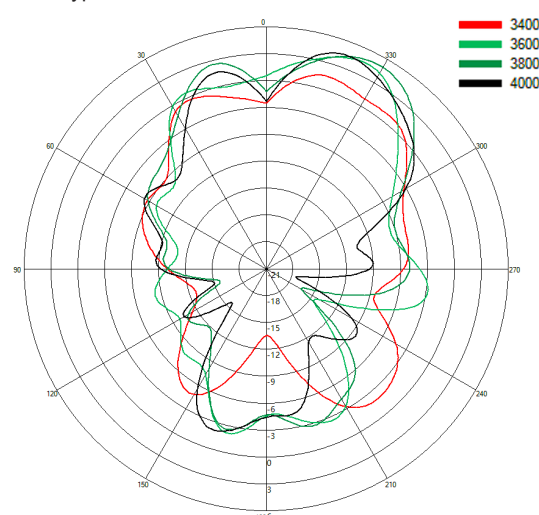
Typical H Plane- Cell F - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell F - 3600 MHz



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



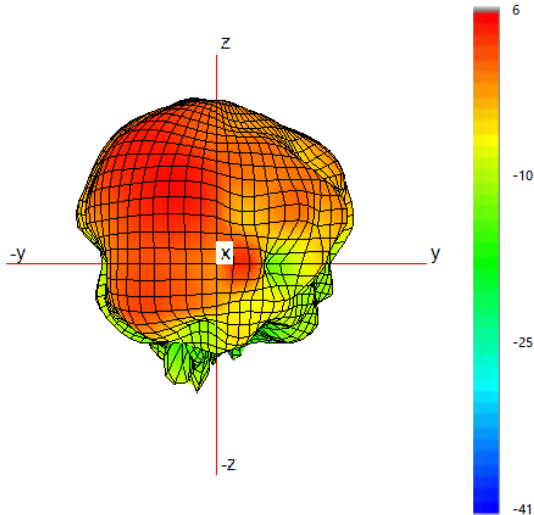
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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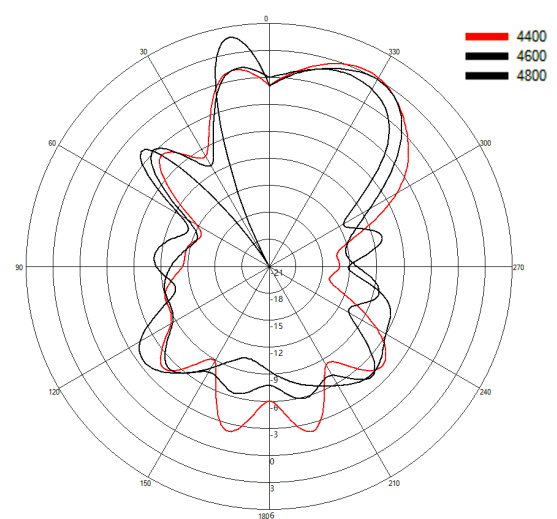
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3D Pattern Data in
Free Space Cell F

Typical 3D Pattern- Cell F - 4700 MHz



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



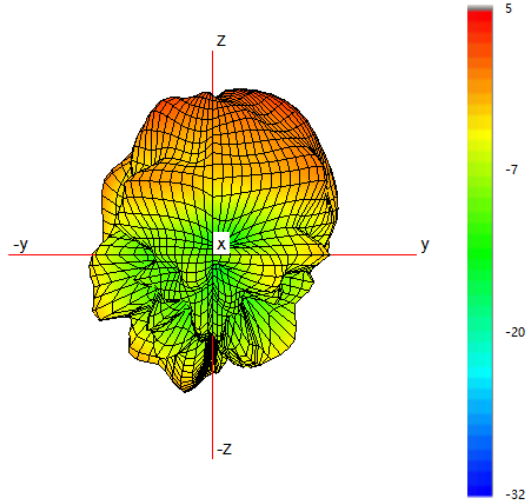
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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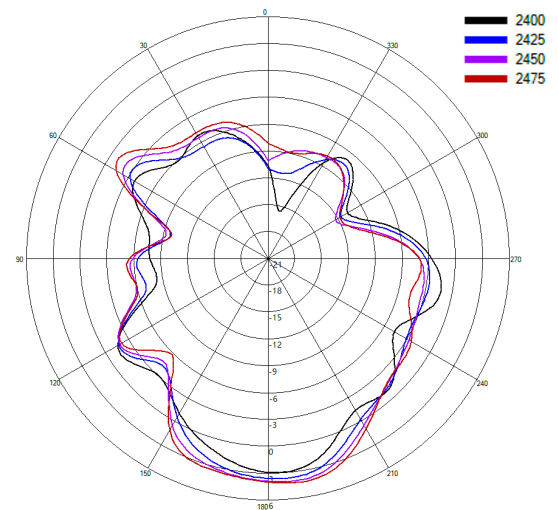
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3D Pattern Data in
Free Space WIFI - 1

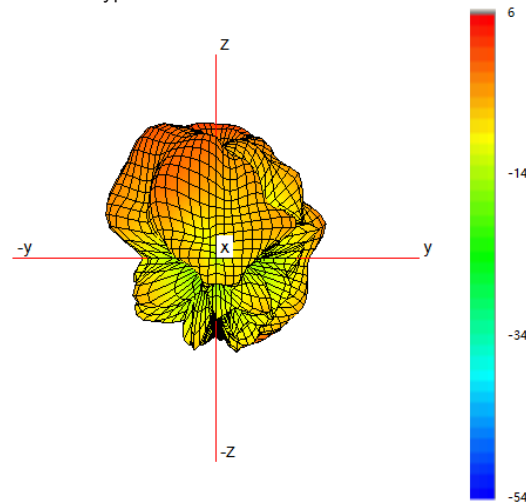
Typical 3D Pattern- WiFi - 1 - 2450 MHz



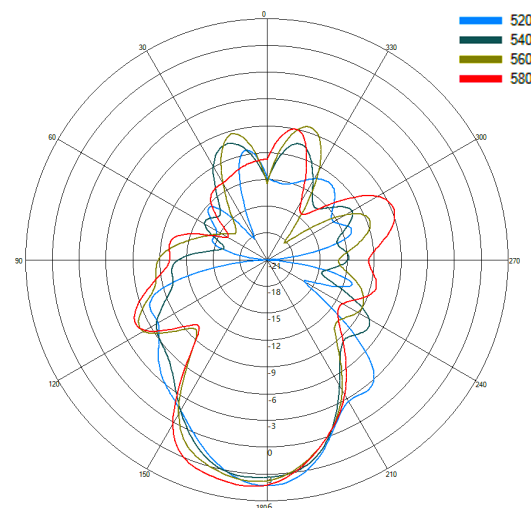
Typical H Plane- WiFi - 1 - Patterns- 2400-2475MHz



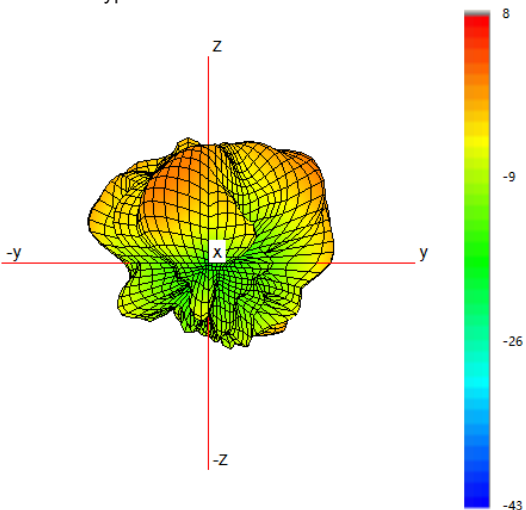
Typical 3D Pattern- WiFi - 1 - 5500 MHz



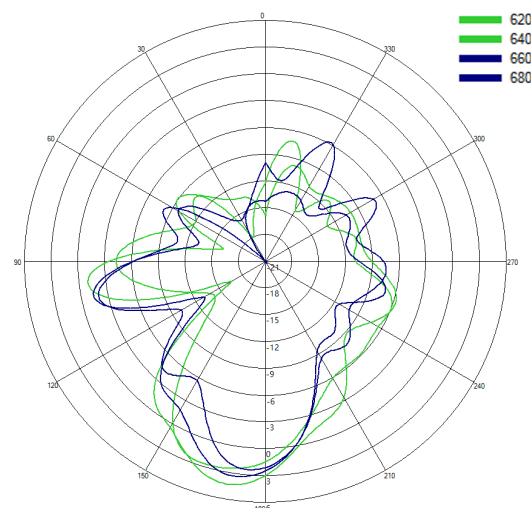
Typical H Plane- WiFi - 1 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 1 - 6500 MHz



Typical H Plane- WiFi - 1 - Patterns- 6200-6800MHz



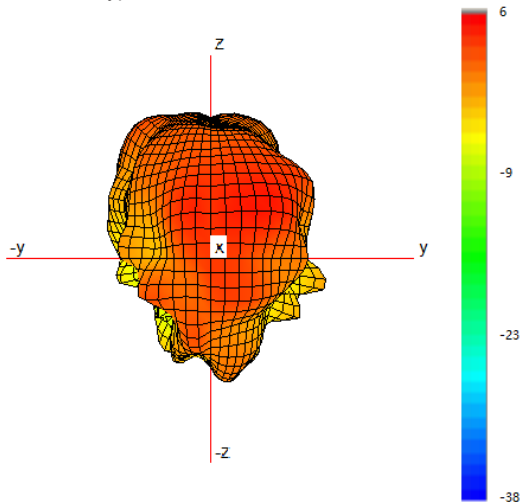
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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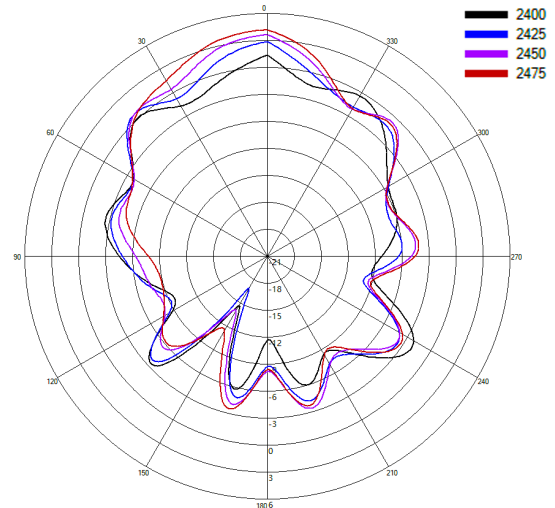
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3D Pattern Data in
Free Space WiFi - 2

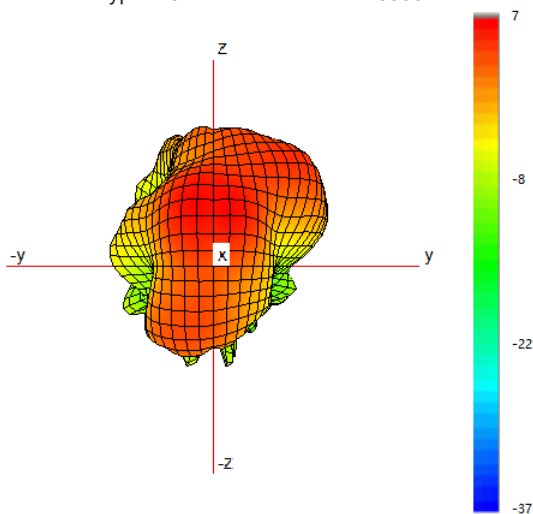
Typical 3D Pattern- WiFi - 2 - 2450 MHz



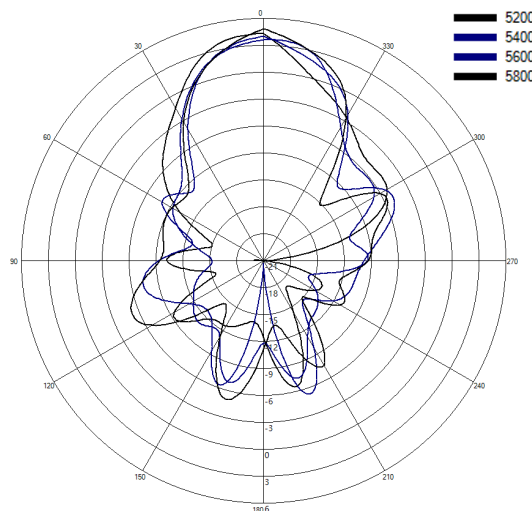
Typical H Plane- WiFi - 2 - Patterns- 2400-2475MHz



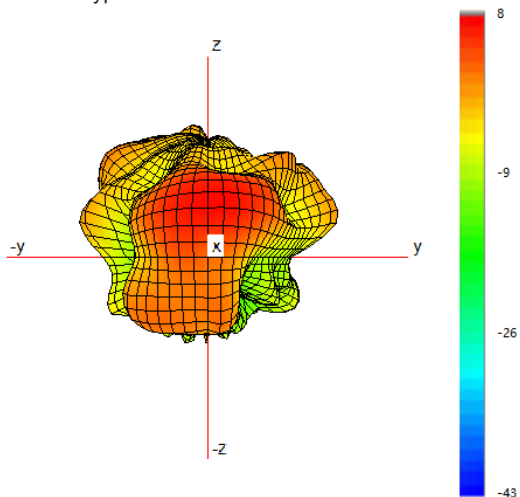
Typical 3D Pattern- WiFi - 2 - 5500 MHz



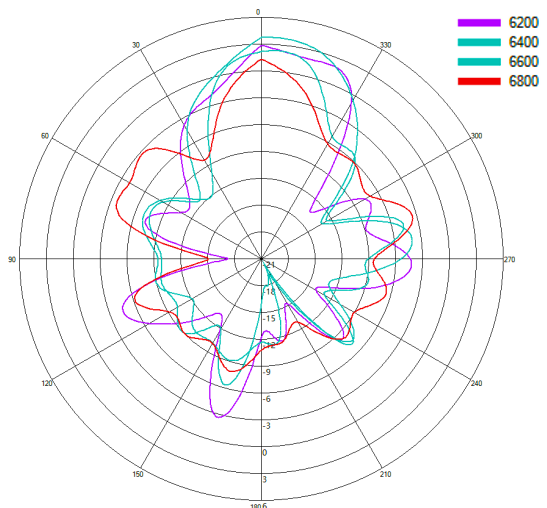
Typical H Plane- WiFi - 2 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 2 - 6500 MHz



Typical H Plane- WiFi - 2 - Patterns- 6200-6800MHz



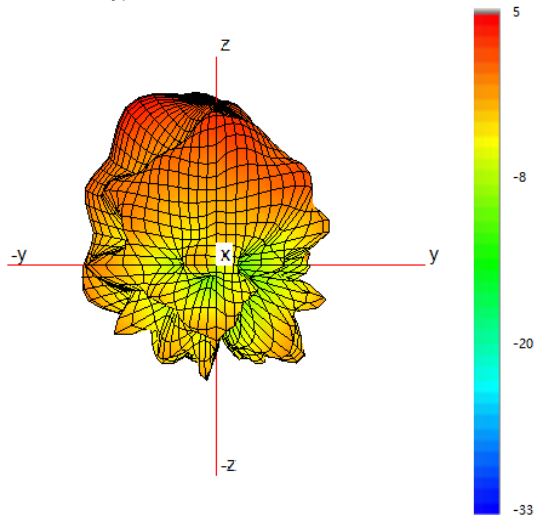
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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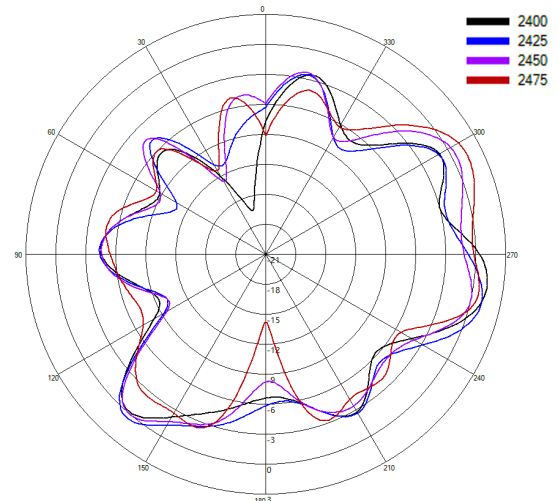
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3D Pattern Data in
Free Space WIFI - 3

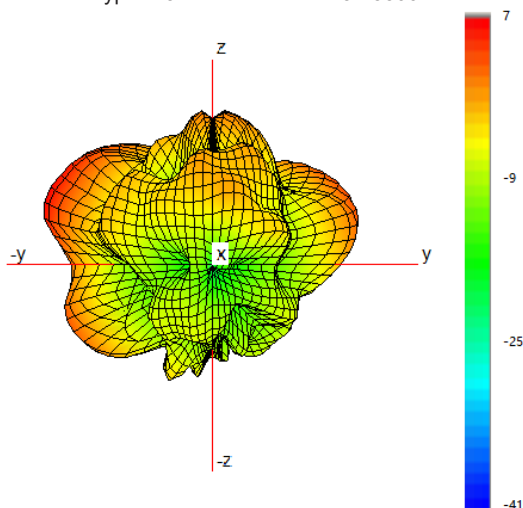
Typical 3D Pattern- WiFi - 3 - 2450 MHz



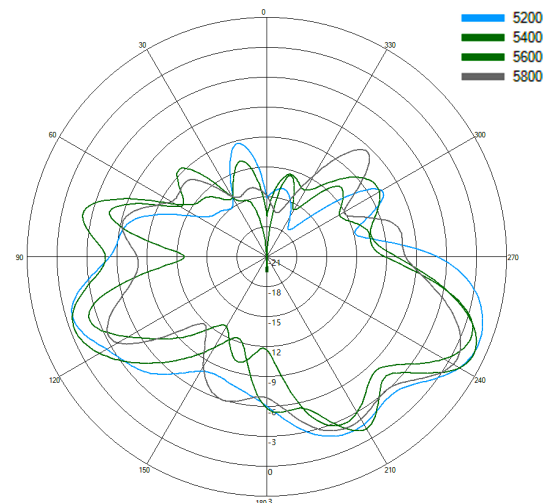
Typical H Plane- WiFi - 3 - Patterns- 2400-2475MHz



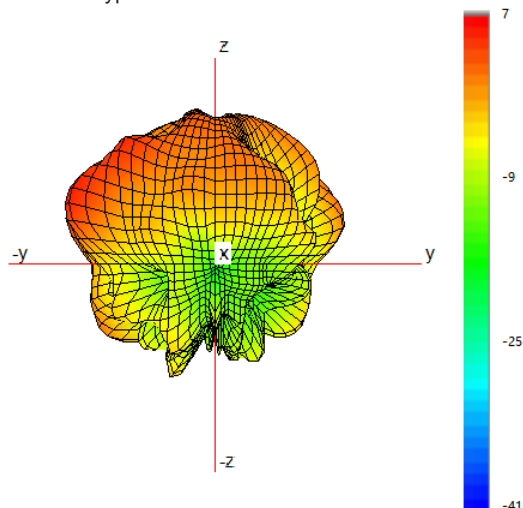
Typical 3D Pattern- WiFi - 3 - 5500 MHz



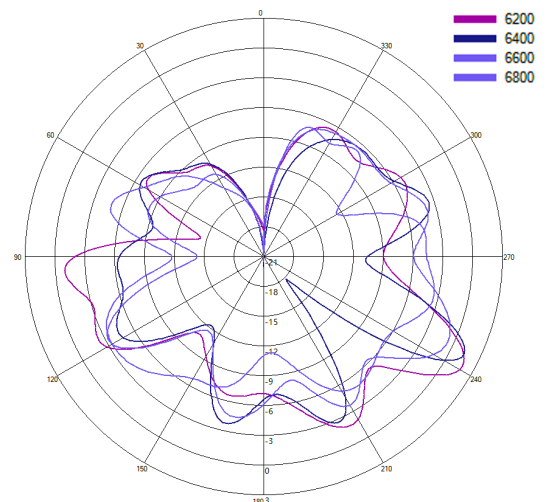
Typical H Plane- WiFi - 3 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 3 - 6500 MHz



Typical H Plane- WiFi - 3 - Patterns- 6200-6800MHz



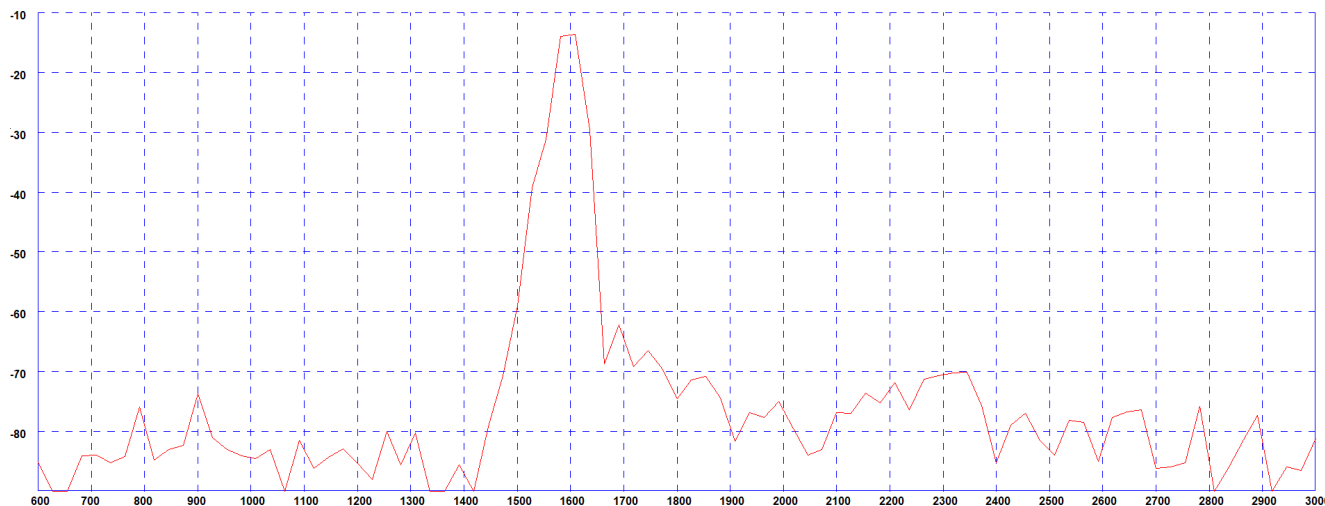
3x 2x2 MiMo 4G/5G Dome Combination Antenna Range

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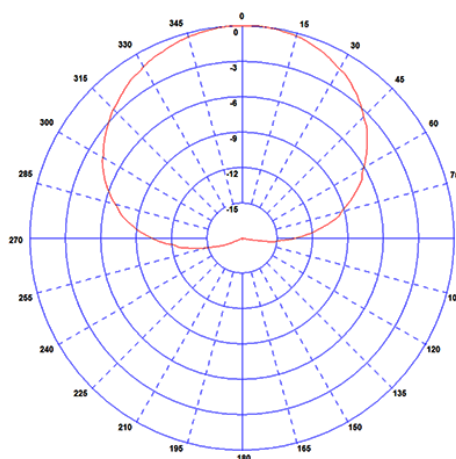
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Electrical Data- L1
GPS/GNSS

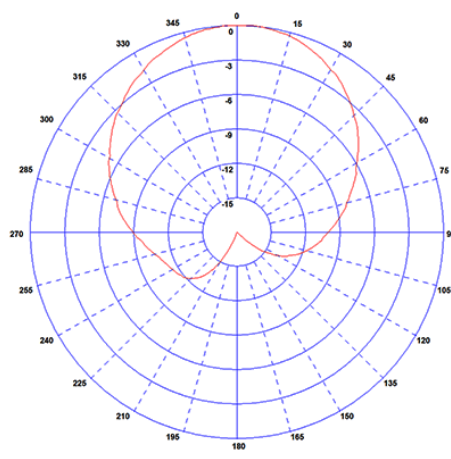
Swept Peak Gain GPS/GNSS



Typical E Plane Pattern - GPS/GNSS 1575 MHz



Typical E Plane Pattern - GPS/GNSS 1602 MHz



GPS/GNSS Measurements taken on 190x190mm (7.4" x 7.4") ground plane excluding cable loss