

Ultra Low Profile MiMo IOT Antenna

L[X]M2-7-27-[X]

PANORAMA ANTENNAS



- Ultra Low Profile
- 2x2 MiMo 4G LTE
- Optional SiSo or 2x2 MiMo WiFi
- Optional GPS/GNSS
- Cost effective solution for M2M and IOT

The L[X]M2-7-27-[X] antenna range has been designed to provide 2x2 MiMo 617-960/1427-4200MHz along with optional SiSo or 2x2 MiMo 2400-2485/5150-6000MHz WiFi and optional GPS/GNSS 1562-1612 MHz 26db LNA in an ultra low profile package. The compact, robust, low-profile housing is weatherproof and impact resistant.

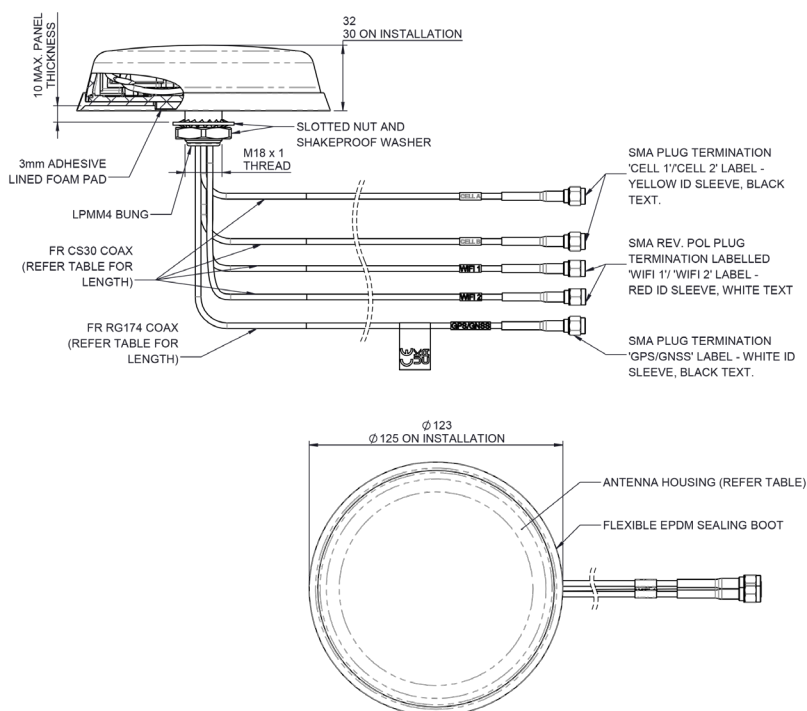
The antenna is designed to be panel mounted. Supplied with integrated flame retardant CS30 (Compliant to UN ECE 118.03) cables and SMA plug connectors (SMA Rev Pol for WiFi where applicable), the antenna will offer plug and play connectivity with many different routers and modems.

The antenna is supplied in black flame retardant LEXAN EXL9330 plastic as standard.

The product is engineered specifically for installation on a non-conductive ground plane and performance will be detrimentally affected across 617-960MHz by installation on a metallic or conductive panel.

Technical Drawing

LGDM2-7-27 Shown



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Product Data

Part No.				
		LGDM2-7-27-2	L GSM2-7-27-2	LGM-7-27-2SP
Electrical Data				
Frequency Range* (MHz)	Cell	2x 617-960 / 1427-4200 MHz		
	WiFi	2x 2400-2485/ 5150-6000 MHz	1x 2400-2485/ 5150-6000 MHz	-
	GPS/GNSS	1x 1562-1612 MHz		
Typical Efficiency*	Cell	40% (617-960MHz) 55% (1427-4200 MHz)		
	WiFi	66% (2400-2485MHz)	50% (5150-5925 MHz)	-
Typical Peal Gain *(dBi)	Cell	4 (617-960MHz) 5 (1427-4200 MHz)		
	WiFi	8 (2400-2485MHz)	6 (5150-5925 MHz)	-
Typical VSWR*	Cell Elements	<2.5:1		
	WiFi Elements	< 2:1		
Isolation (dB)**	Cell Elements	≥10 (617-960MHz) ≥ 14 (1427-4200 MHz)		
	Wifi Elerments	≥22 (2400-2485MHz)	≥ 37 (5150-5925 MHz)	-
Pattern		Omni-directional		
Impedance		50Ω		
Max Input Power (W)		5		
GPS/GNSS Data				
Frequency Range (MHz)		1562-1612MHz		
Impedance		50Ω		
LNA Gain		26dB		
Voltage / Current		3-5v 17mA Typical		
Polarisation		Right Hand Circular		
Mechanical Data				
Dimensions (mm)	Height	32 (1.25")		
	Diameter	123 (4.84")		
Environmental Specification				
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)		
Radome Material		Lexan EXL 9330		
Radome Material Approvals		V0 (UL 94) / UL746C F1		
Ingress Protection		IP69K		
Vandal Resistance		IK10		
Mounting Data				
Fixing		Panel Mount - 18mm (3/4")		
Cable Data	CELL Cables		WiFi Cables	GPS/GNSS Cable
Cable Type		FR CS30		FR RG174
Cable Diameter (mm)		2.8 (0.1")		
Cable Length (m)		2m (6.6')		
Termination	4G/5G	2x SMA Plug (m)		
	WiFi	2x Rev Pol SMA		-
	GPS/GNSS	1x SMA Plug (m)		

*Typical VSWR measured in free space with 2m (6.6')

*Typical efficiency and peak gain measured in free space with 0.5m (1.6')

**Typical isolation measured in free space with 2m (6.6')

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Product Data

Part No.	LPDM2-7-27-2		LPSM2-7-27-2		LPM-7-27-2SP	
Electrical Data						
Frequency Range* (MHz)	Cell	2x 617-960 / 1427-4200 MHz				
	WiFi	2x 2400-2485/ 5150-6000 MHz	1x 2400-2485/ 5150-6000 MHz		-	
Typical Efficiency*	Cell	40% (617-960MHz) 55% (1427-4200 MHz)				
	WiFi	66% (2400-2485MHz)	50% (5150-5925 MHz)		-	
Typical Peal Gain *(dBi)	Cell	4 (617-960MHz) 5 (1427-4200 MHz)				
	WiFi	8 (2400-2485MHz)	6 (5150-5925 MHz)		-	
Typical VSWR*	Cell Elements	<2.5:1				
	WiFi Elements	< 2:1		-		
Isolation (dB)**	Cell Elements	≥10 (617-960MHz) ≥ 14 (1427-4200 MHz)				
	Wifi Elerments	≥22 (2400-2485MHz)	≥ 37 (5150-5925 MHz)	-		
Pattern		Omni-directional				
Impedance		50Ω				
Max Input Power (W)		5				
Mechanical Data						
Dimensions (mm)	Height	32 (1.25")				
	Diameter	123 (4.84")				
Environmental Specification						
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)				
Radome Material		Lexan EXL 9330				
Radome Material Approvals		V0 (UL 94) / UL746C F1				
Ingress Protection		IP69K				
Vandal Resistance		IK10				
Mounting Data						
Fixing		Panel Mount - 18mm (3/4")				
Cable Data						
Cable Type		FR CS30				
Cable Diameter (mm)		2.8 (0.1")				
Cable Length (m)		2m (6.6')				
Termination	4G/5G	2x SMA Plug (m)				
	WiFi	2x Rev Pol SMA		-		

*Typical VSWR measured in free space with 2m (6.6')

*Typical efficiency and peak gain measured in free space with 0.5m (1.6')

**Typical isolation measured in free space with 2m (6.6')

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Product Data

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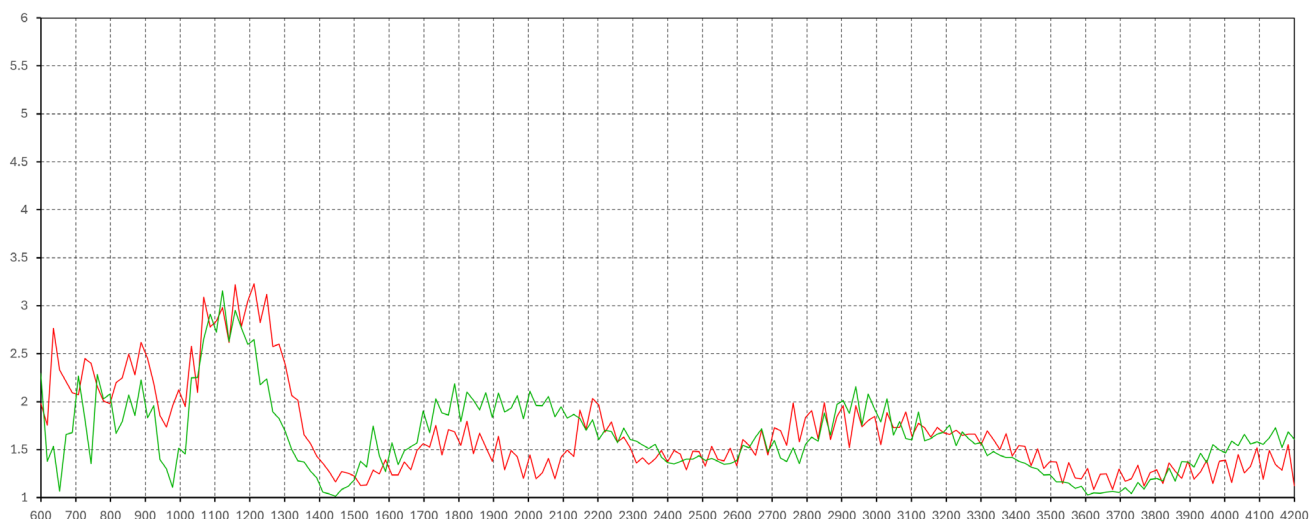
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Electrical Data CELL
in Free Space

Measurement Conditions	4G/5G Antennas				
LGDM2-7-27-2 measured in free space with 0.5m (1.6') FR CS30 cables	Frequency Range (MHz)	LTE/NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71,105	Cell A	4.3	55
			Cell B	1.5	40
	699-798	12,13,14,17,28	Cell A	1.8	32
			Cell B	1.5	46
	807- 862	5,19,20,26,27	Cell A	0.3	25
			Cell B	1.4	51
	880-960	8	Cell A	1.1	29
			Cell B	1.0	44
	1427-1518	11,21,74,75,76	Cell A	3.0	64
			Cell B	2.8	70
	1710-1920	2,3,4,9,25,35,39,66	Cell A	2.6	42
			Cell B	4.6	55
	1920-2170	1,23	Cell A	4.8	43
			Cell B	5.8	59
	2300-2400	30,40	Cell A	5.3	55
			Cell B	5.4	54
	2496-2690	7,38,41	Cell A	5.6	45
			Cell B	5.5	58

Typical VSWR

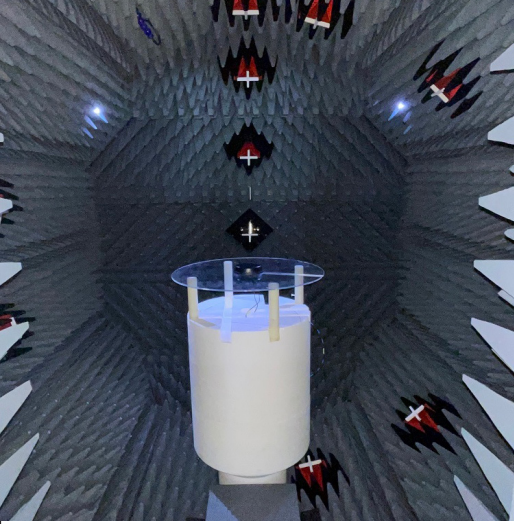


VSWR measured with 2m (6.6') of FR CS30 cable in free space

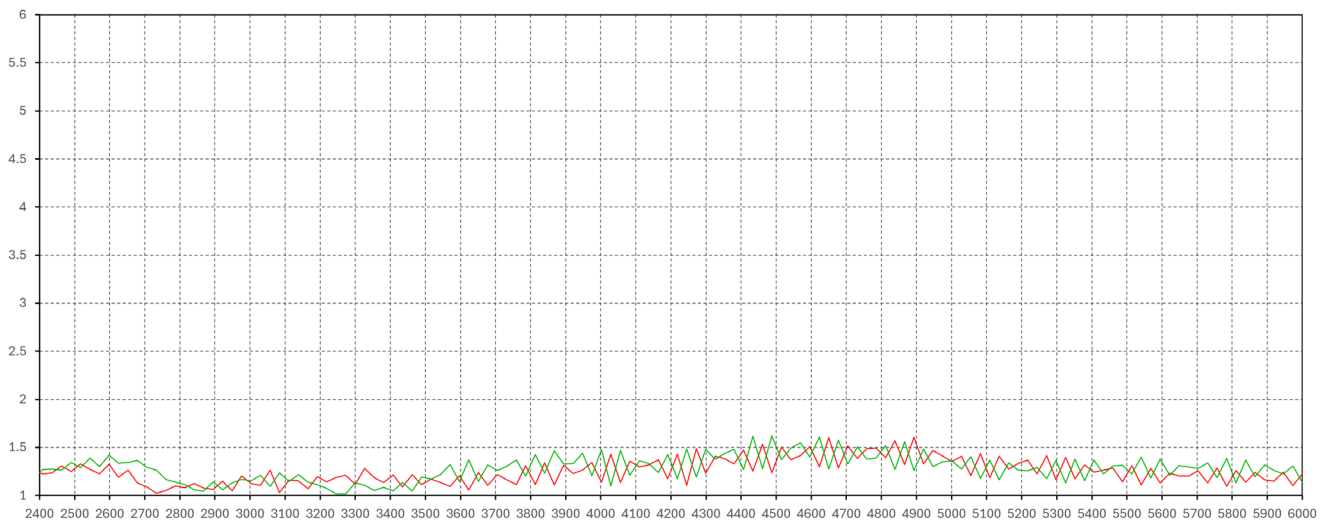
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Electrical Data - WiFi
in Free Space

Measurement Conditions	WiFi Antennas				
LGDM2-7-27-2 measured in free space with 0.5m (1.6') FR CS30 cables	Frequency Range (MHz)	WiFi Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	2400-2485	2.4GHz	WiFi 1	6.4	64
			WiFi 2	8.3	67
	5150-5250	UNII-1	WiFi 1	4.9	52
			WiFi 2	5.2	54
	5250-5350	UNII-2A	WiFi 1	6.3	54
			WiFi 2	6.2	54
	5350-5470	UNII-2B	WiFi 1	6.3	53
			WiFi 2	5.8	49
	5470-5725	UNII-2C	WiFi 1	6.2	50
			WiFi 2	6.1	51
	5725-5850	UNII-3	WiFi 1	5.3	46
			WiFi 2	4.9	47
	5850-5925	UNII-4	WiFi 1	5.0	40
			WiFi 2	3.6	46

Typical VSWR



VSWR measured with 2m (6.6) of FR CS30 cable in free space

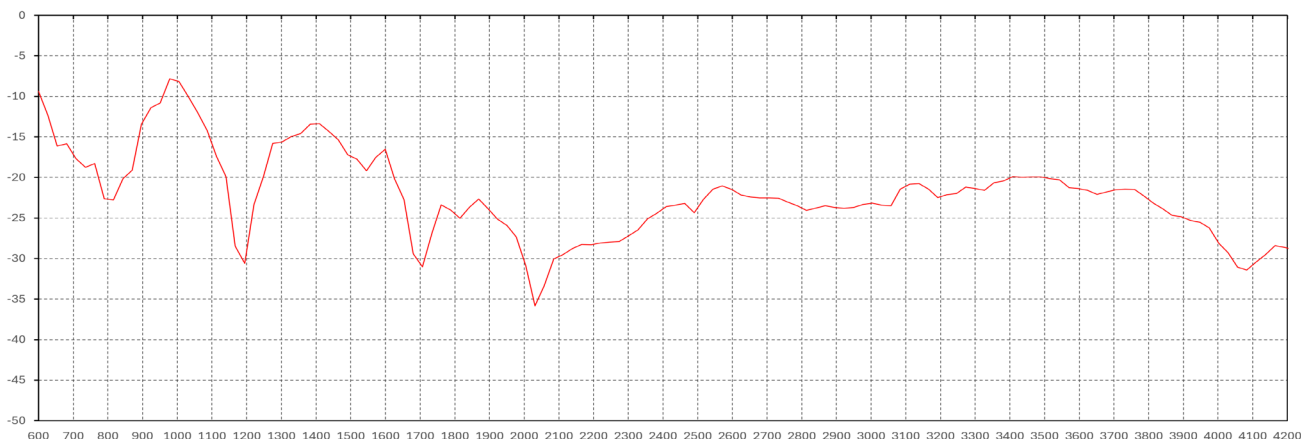
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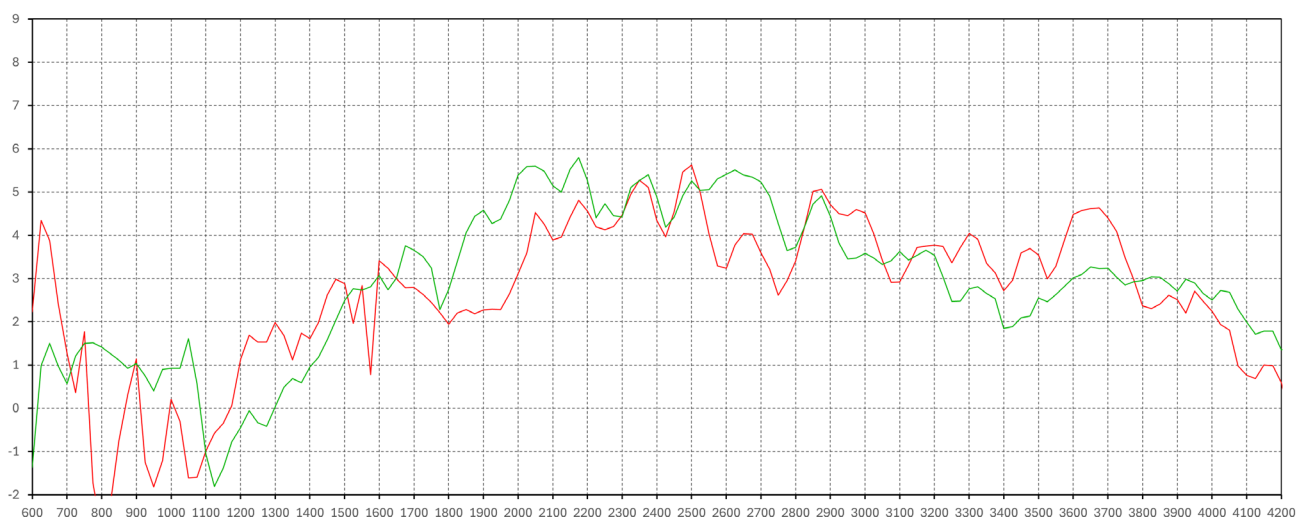
Electrical Data CELL
in Free Space

Typical Isolation*



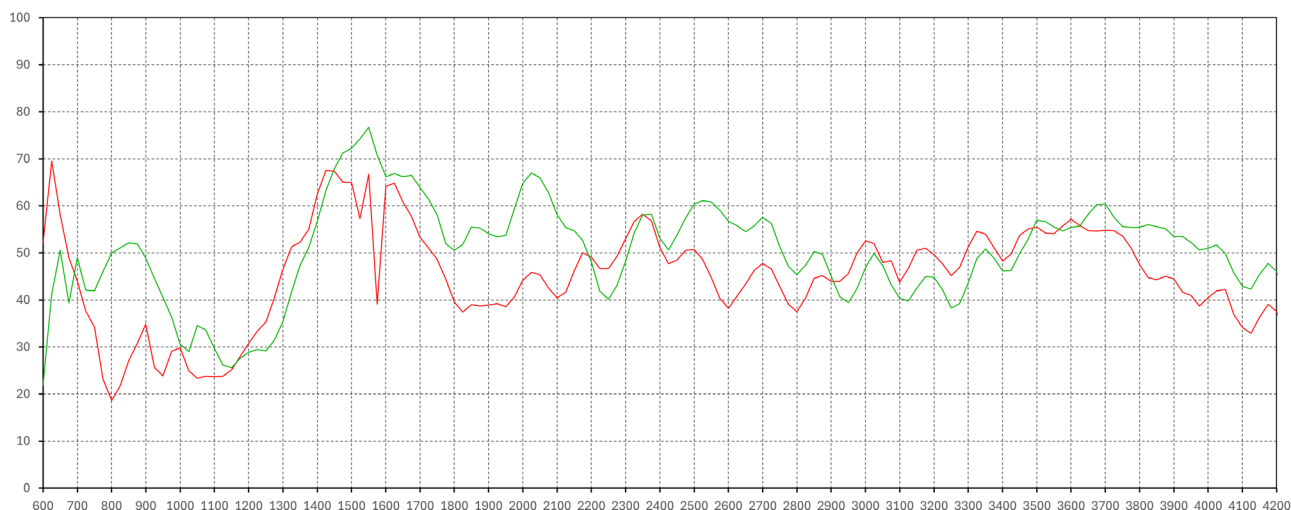
Isolation measured with 2m (6.6') of FR CS30 cable in free space

Typical Swept Peak Gain



Swept Peak Gain measured with 0.5m (1.6') of FR CS30 cable in free space

Typical Efficiency



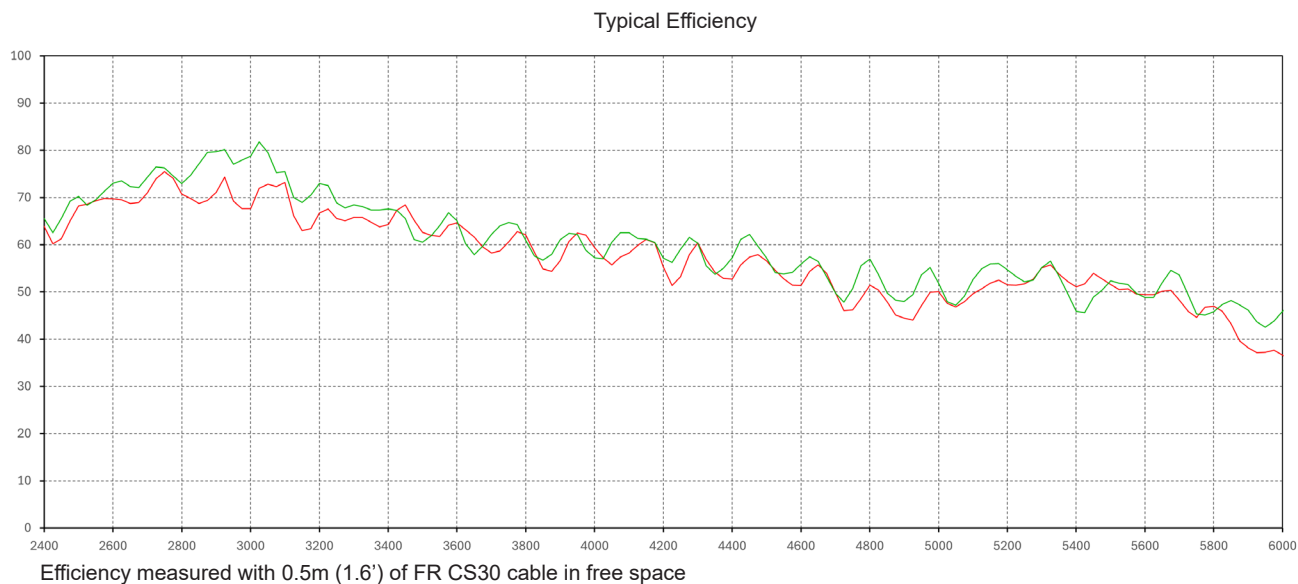
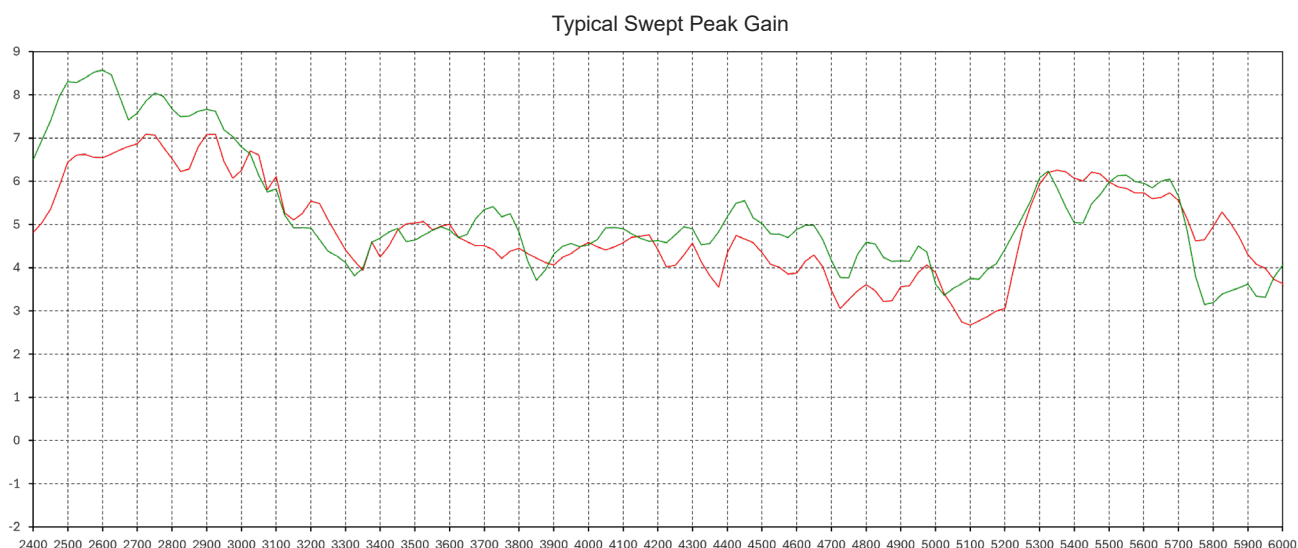
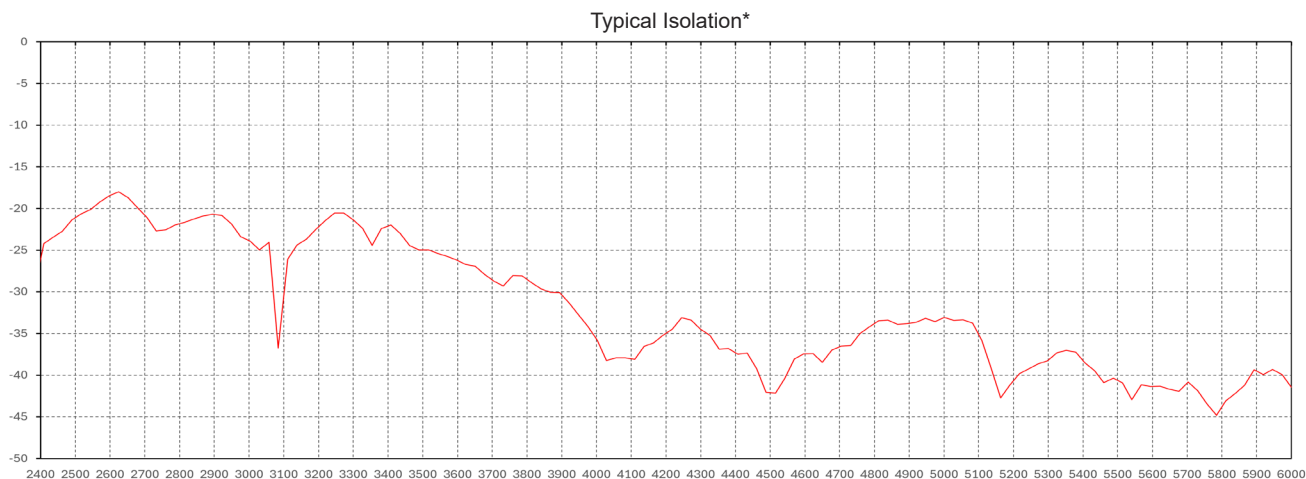
Efficiency measured with 0.5m (1.6') of FR CS30 cable in free space

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Electrical Data WIFI
in Free Space



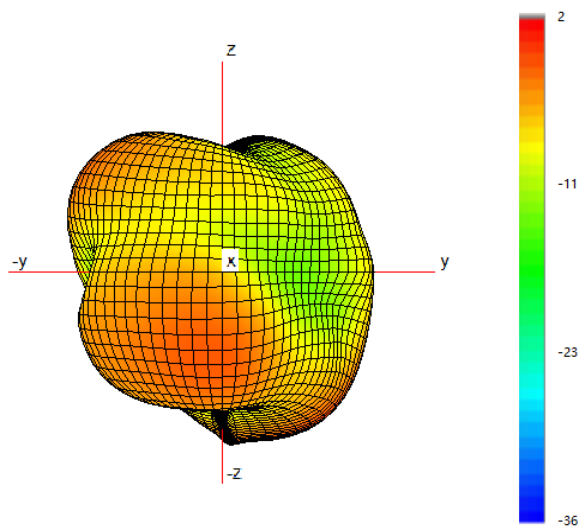
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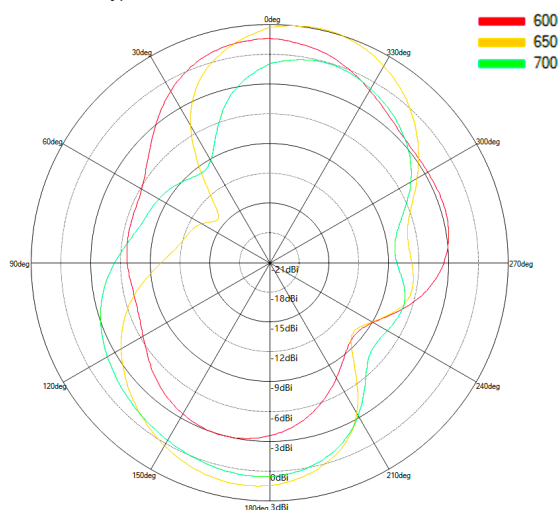
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3D Pattern Data in
Free Space Cell A

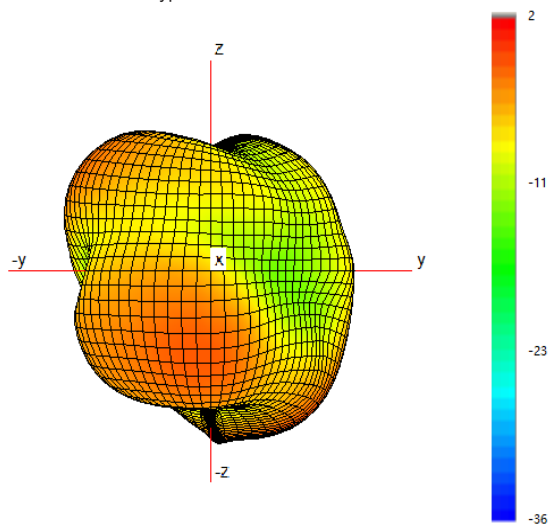
Typical 3D Pattern- Cell A - 650 MHz



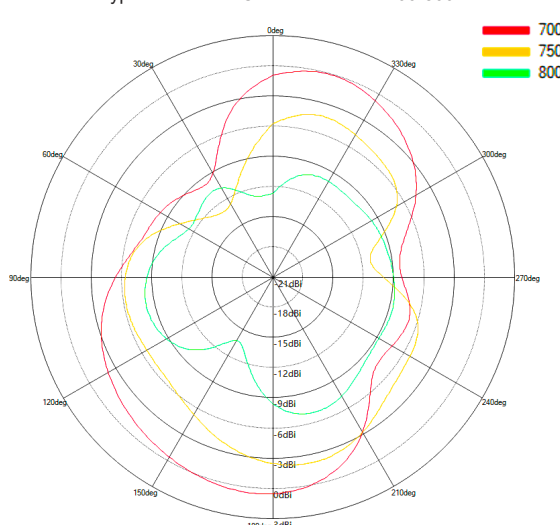
Typical H Plane- Cell A - Patterns- 600-700 MHz



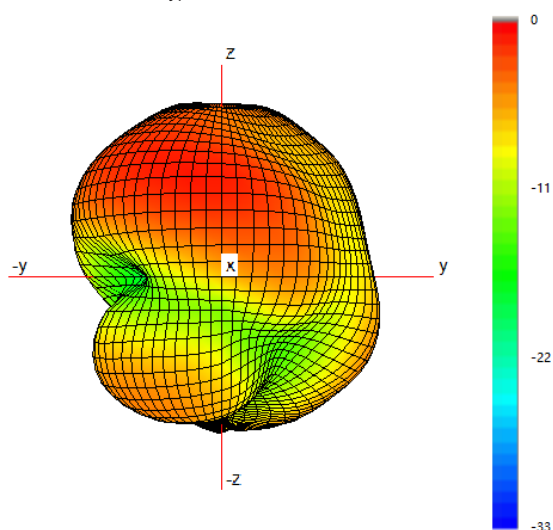
Typical 3D Pattern- Cell A - 750 MHz



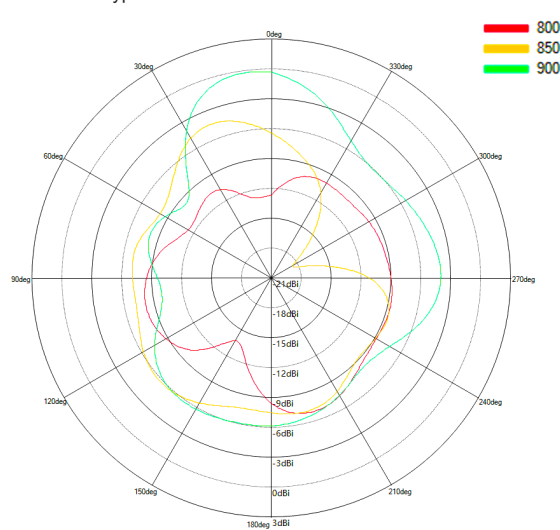
Typical H Plane- Cell A - Patterns- 700-800 MHz



Typical 3D Pattern- Cell A - 850 MHz



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



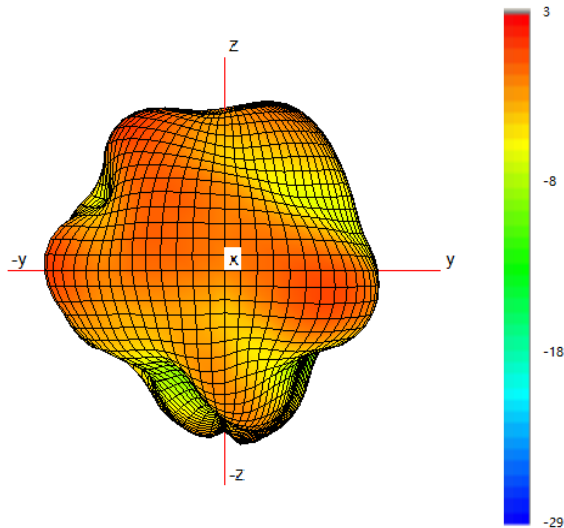
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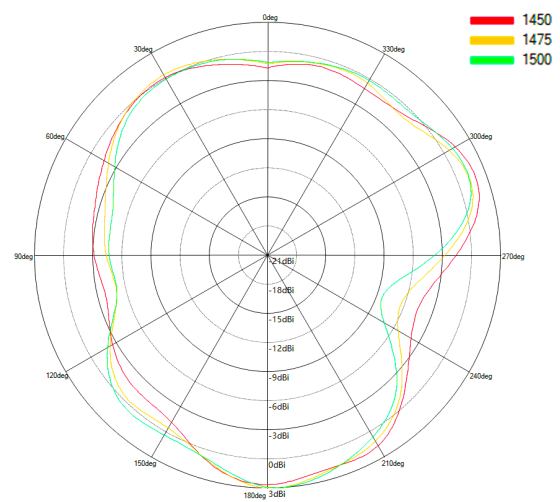
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3D Pattern Data in
Free Space Cell A

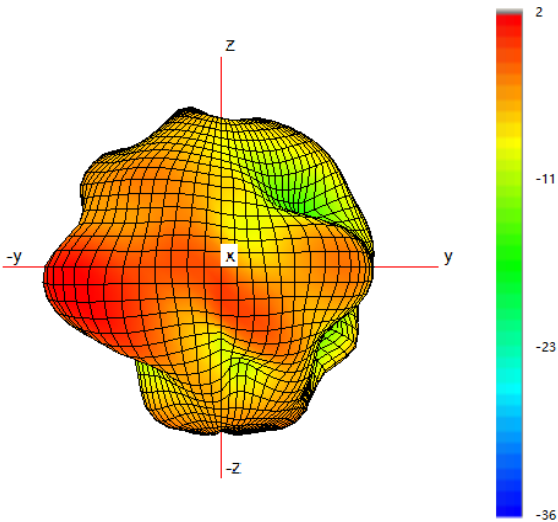
Typical 3D Pattern- Cell A - 1475 MHz



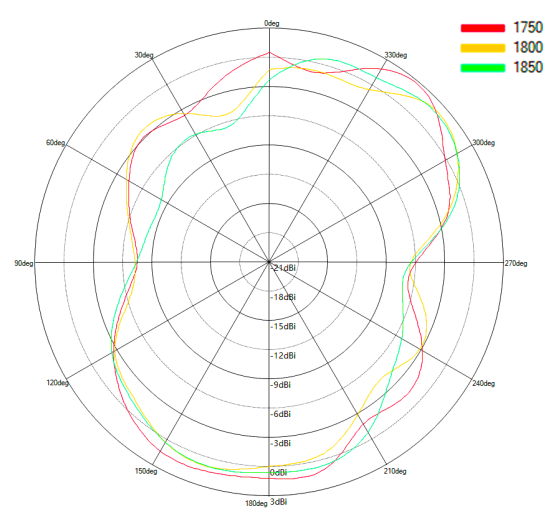
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



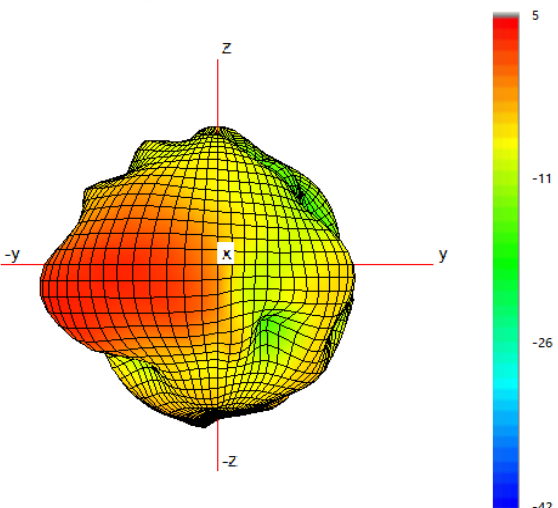
Typical 3D Pattern- Cell A - 1800 MHz



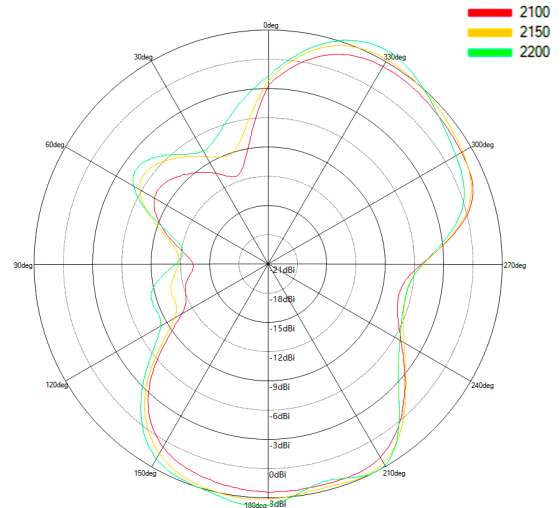
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



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



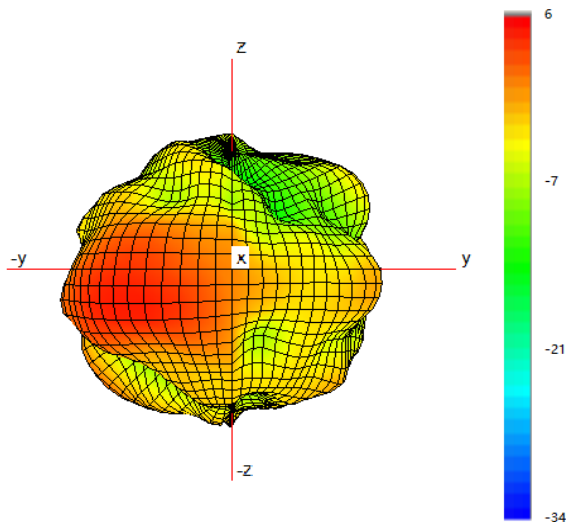
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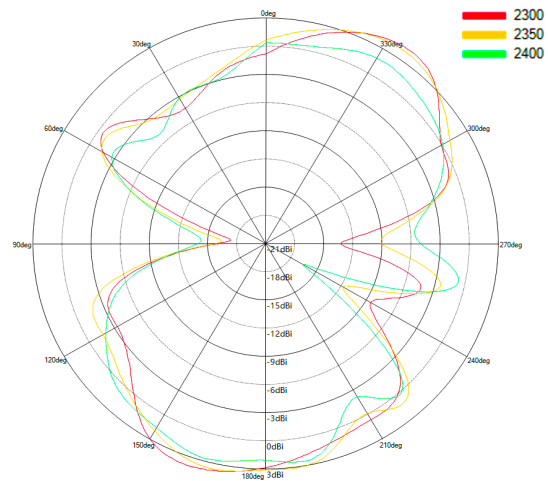
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3D Pattern Data in
Free Space Cell A

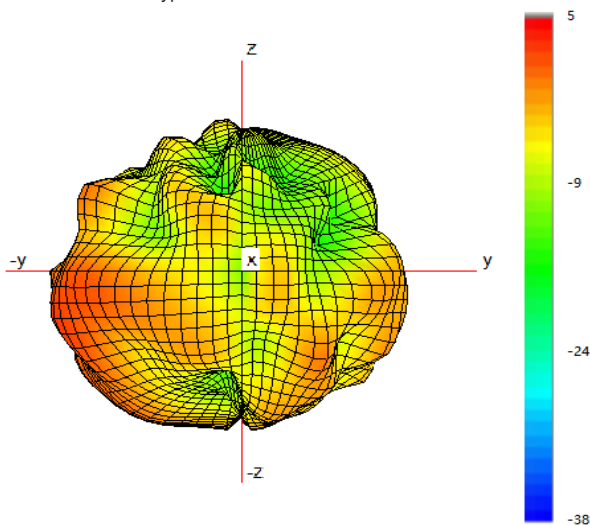
Typical 3D Pattern- Cell A - 2350 MHz



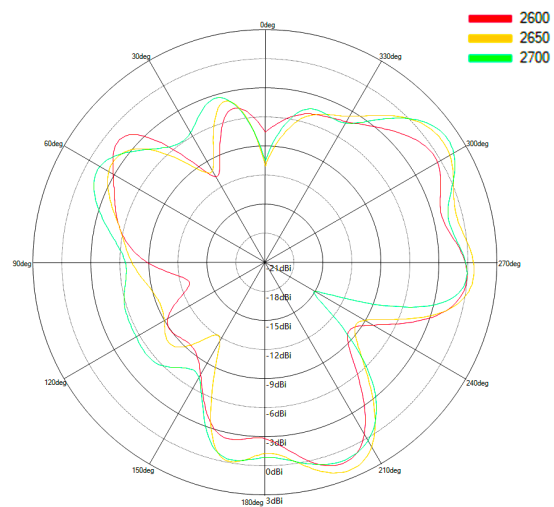
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



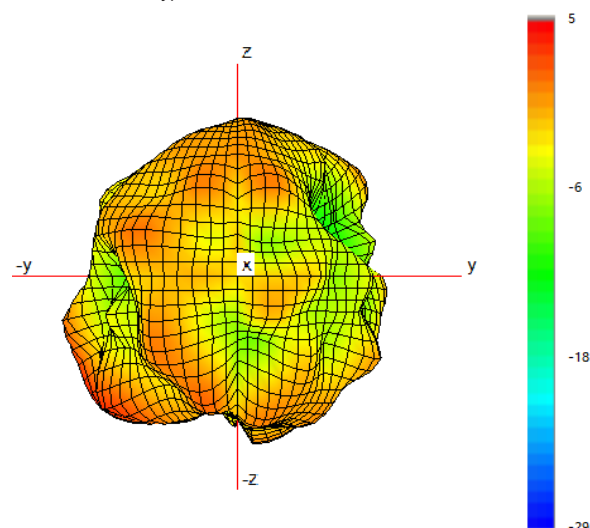
Typical 3D Pattern- Cell A - 2650 MHz



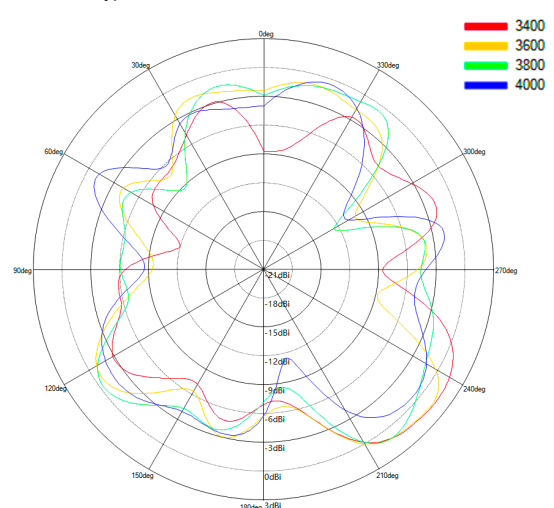
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



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



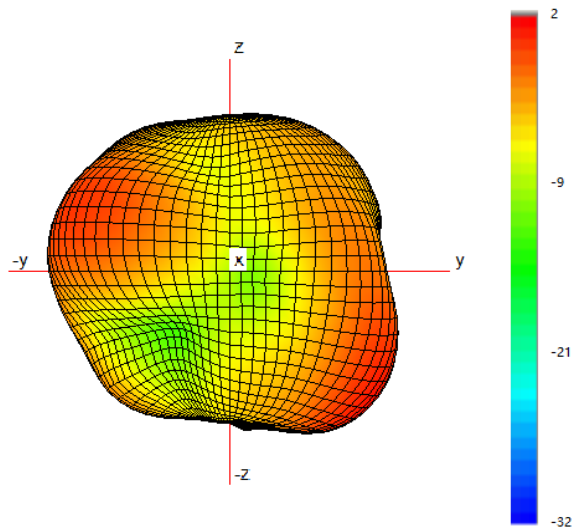
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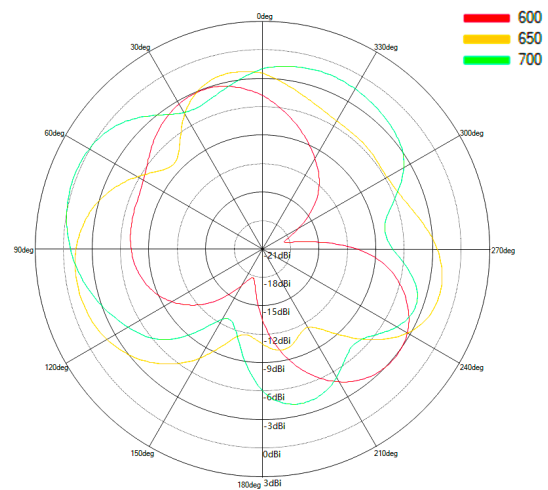
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3D Pattern Data in
Free Space Cell B

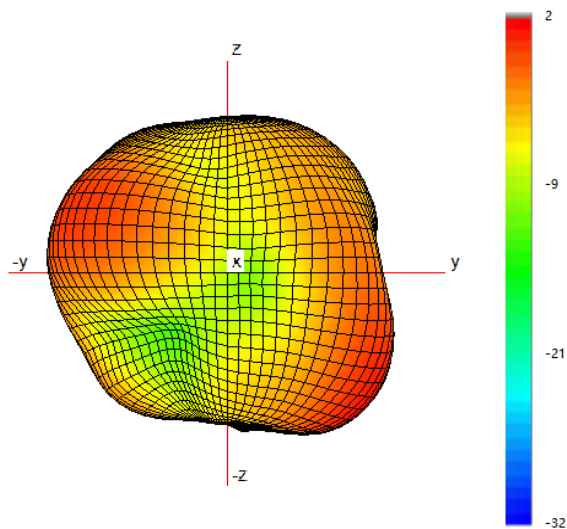
Typical 3D Pattern- Cell B - 650 MHz



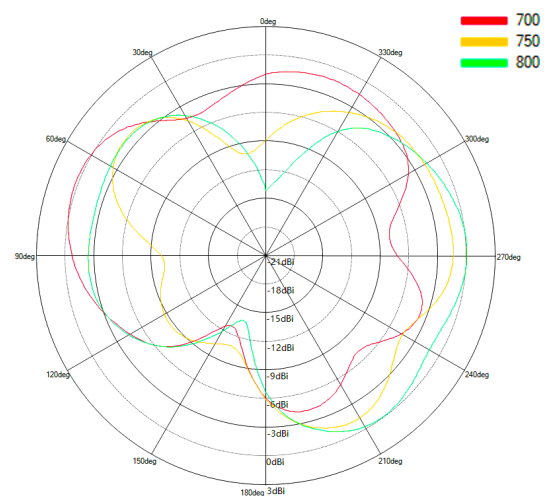
Typical H Plane- Cell B - Patterns- 600-700 MHz



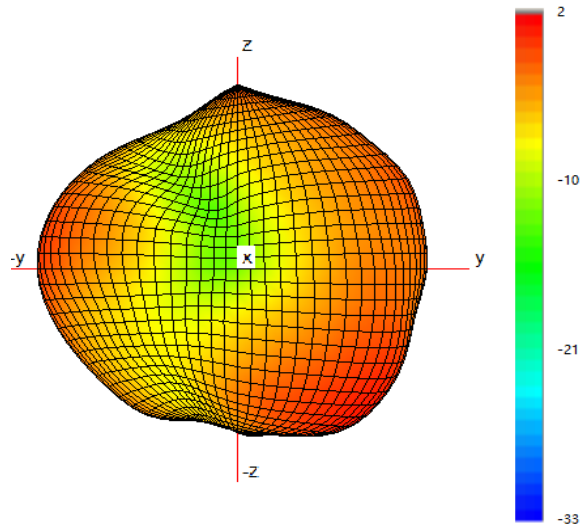
Typical 3D Pattern- Cell B - 750 MHz



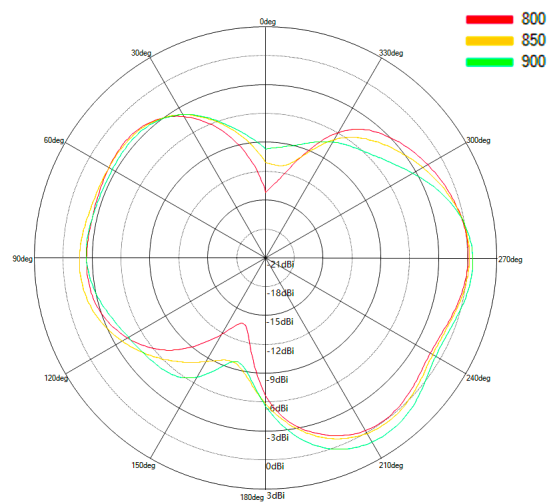
Typical H Plane- Cell B - Patterns- 700-800 MHz



Typical 3D Pattern- Cell B - 850 MHz



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



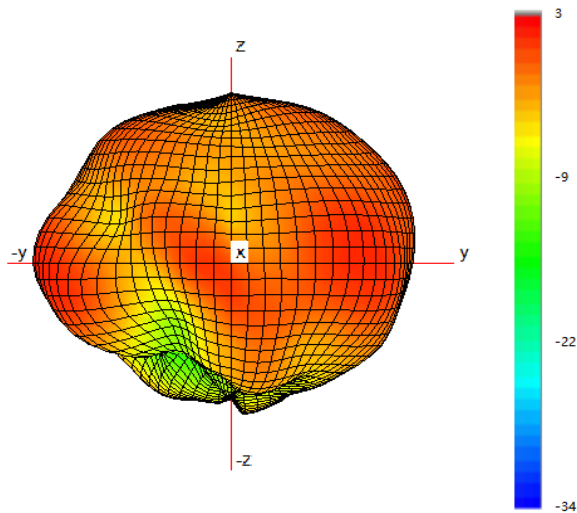
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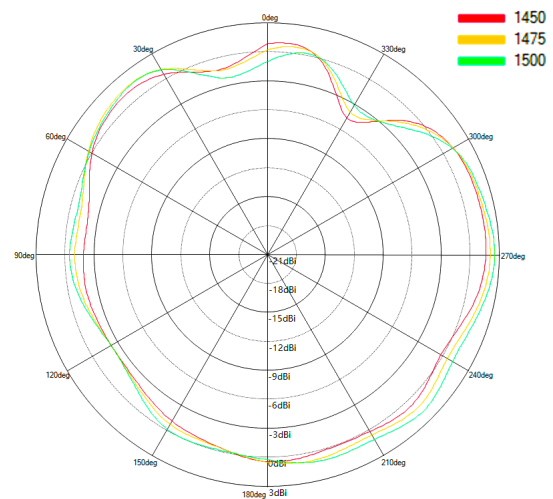
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3D Pattern Data in
Free Space Cell B

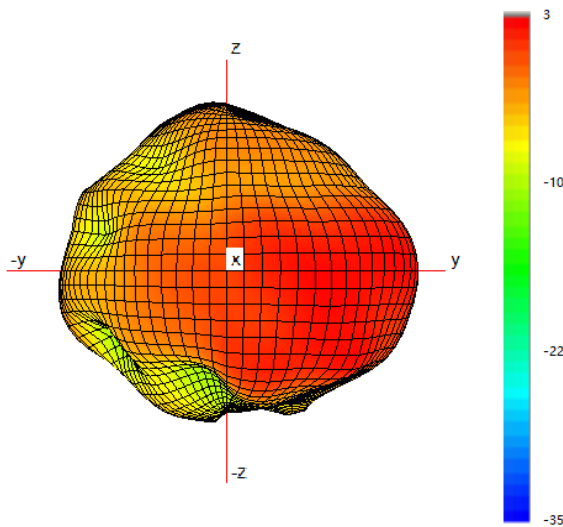
Typical 3D Pattern- Cell B - 1475 MHz



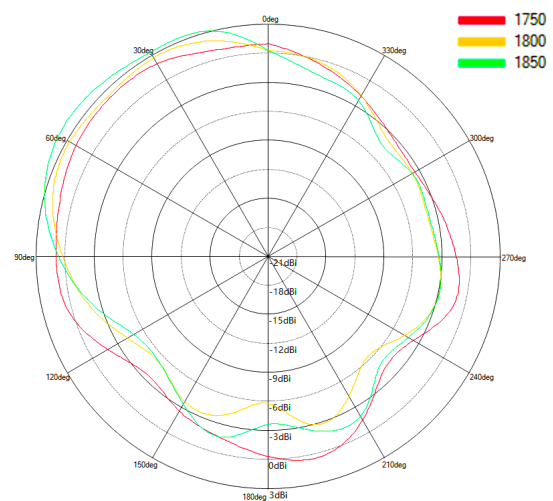
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



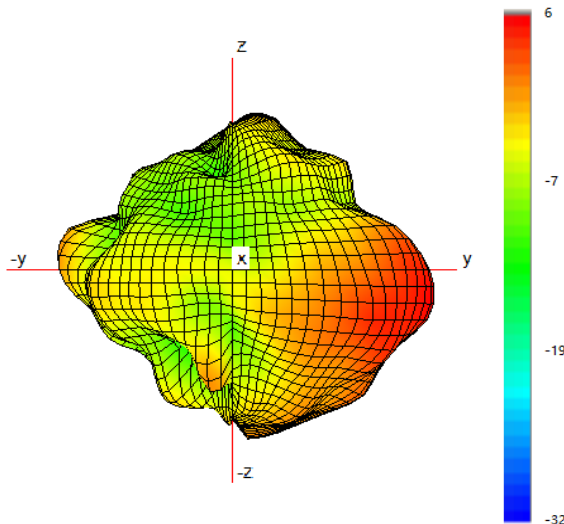
Typical 3D Pattern- Cell B - 1800 MHz



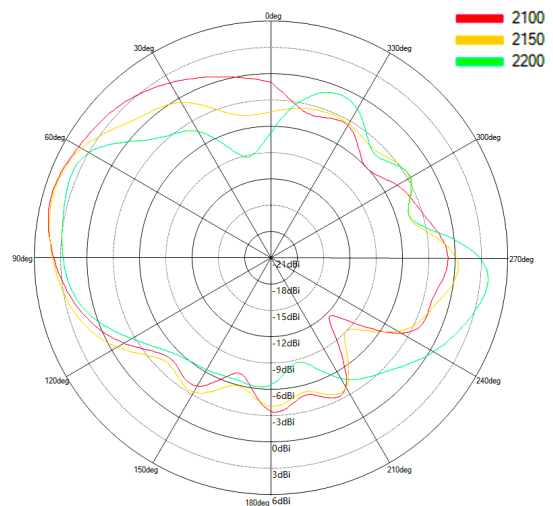
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



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



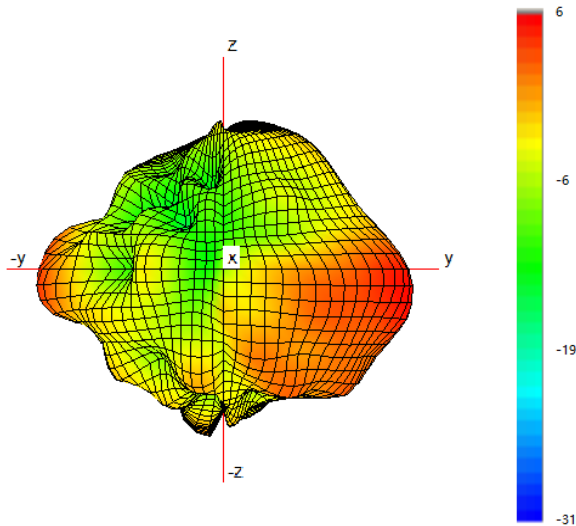
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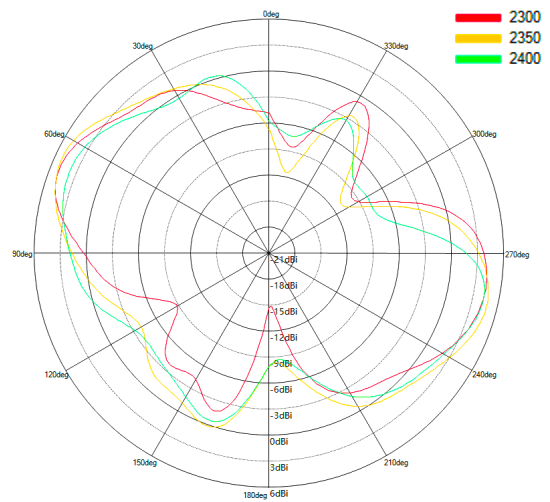
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3D Pattern Data in
Free Space Cell B

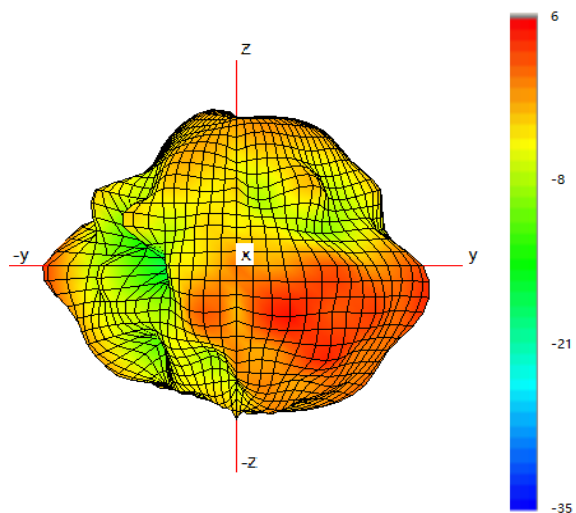
Typical 3D Pattern- Cell B - 2350 MHz



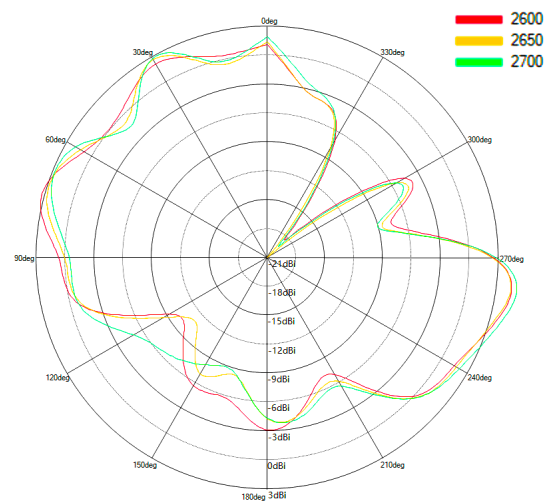
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



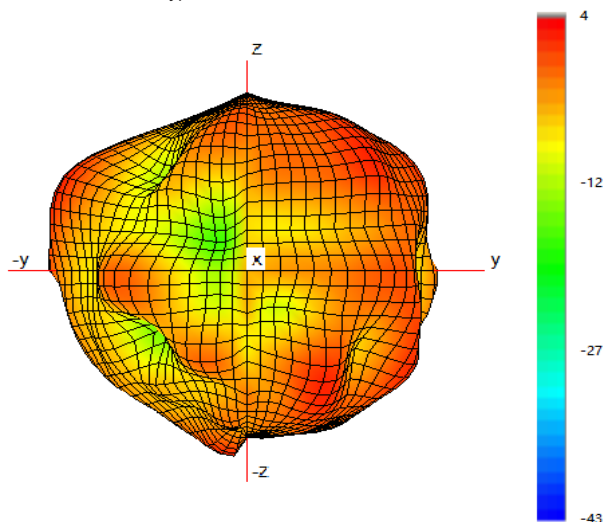
Typical 3D Pattern- Cell B - 2650 MHz



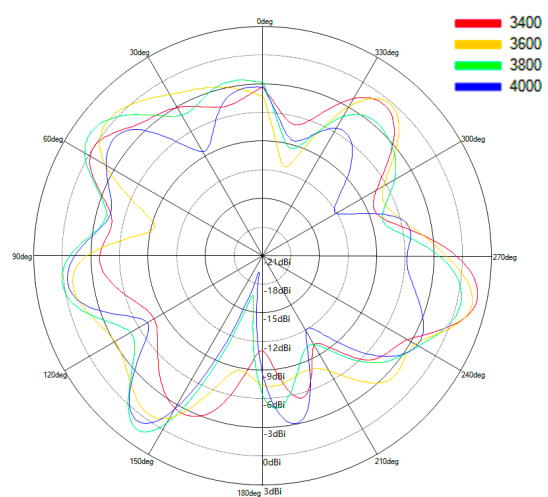
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



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



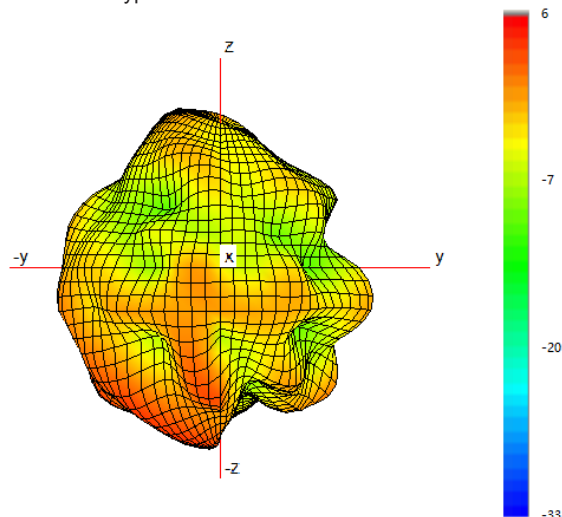
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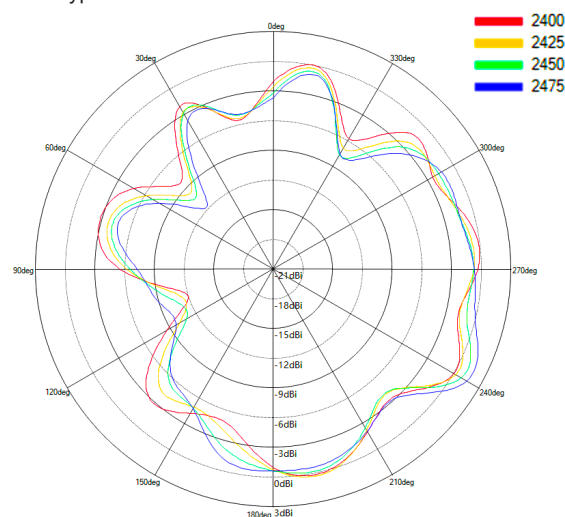
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3D Pattern Data in
Free Space WiFi - 1

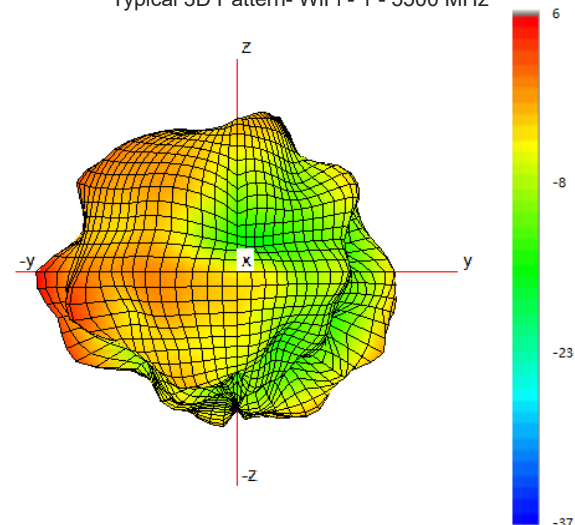
Typical 3D Pattern- WiFi - 1 - 2450 MHz



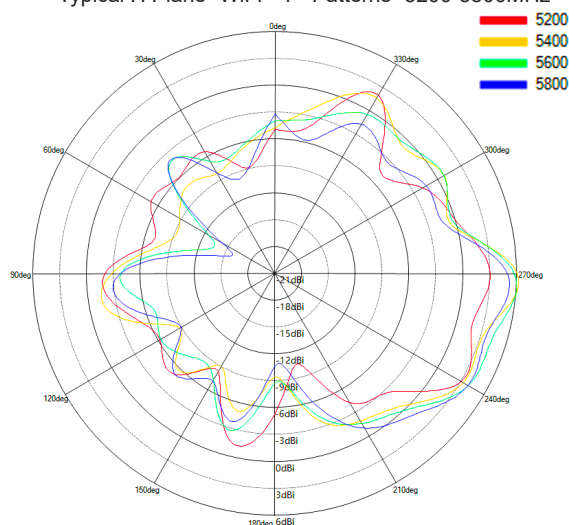
Typical H Plane- WiFi - 1 - Patterns- 2400-2475MHz



Typical 3D Pattern- WiFi - 1 - 5500 MHz



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



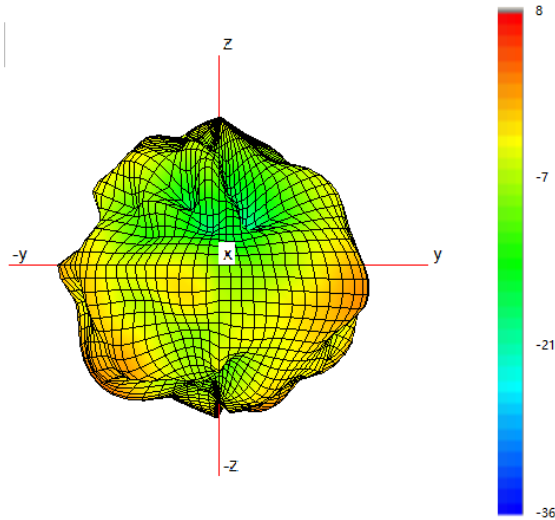
Ultra Low Profile MiMo IOT Antenna

L[X]M2-7-27-[X]

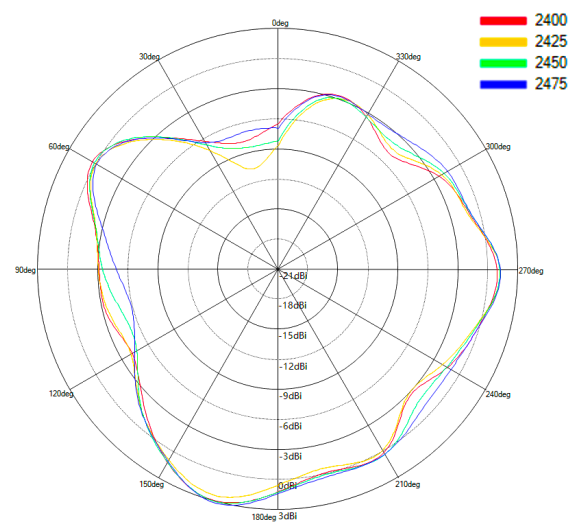
PANORAMA ANTENNAS

3D Pattern Data in
Free Space WIFI- 2

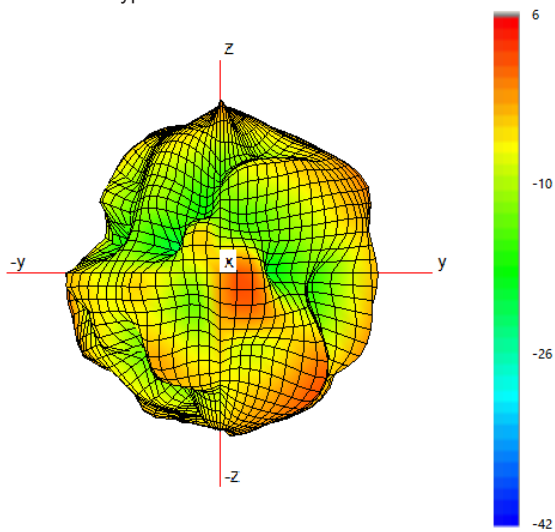
Typical 3D Pattern- WiFi - 2 - 2450 MHz



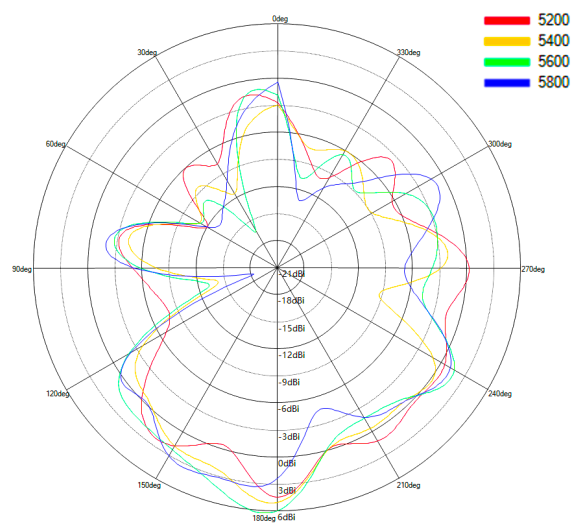
Typical H Plane- WiFi - 2 - Patterns- 2400-2475MHz



Typical 3D Pattern- WiFi - 2 - 5500 MHz



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

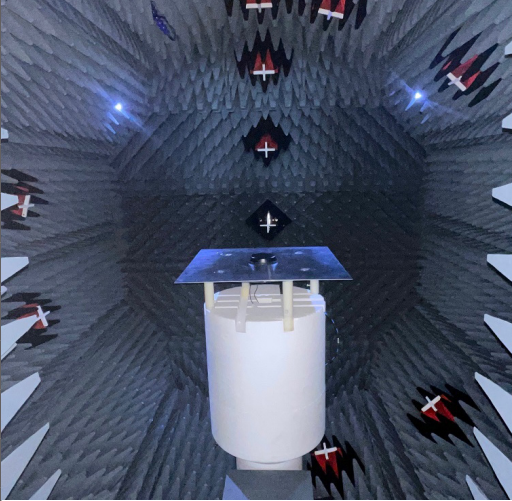


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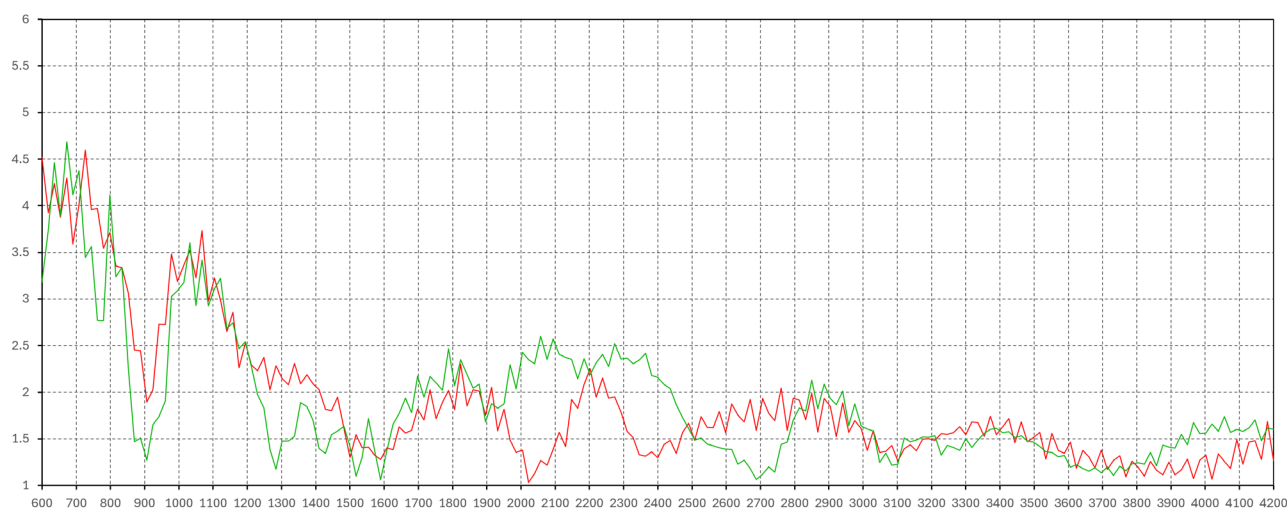
L[X]M2-7-27-[X]

PANORAMA ANTENNAS

Electrical Data CELL
on Ground Plane

Measurement Conditions	4G/5G Antennas				
LGDM2-7-27-2 measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') FR CS30 cables	Frequency Range (MHz)	LTE/NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71,105	Cell A	0.7	24
			Cell B	1.3	21
	699-798	12,13,14,17,28	Cell A	-1.9	20
			Cell B	1.3	21
	807-862	5,19,20,26,27	Cell A	-1.0	20
			Cell B	0.8	22
	880-960	8	Cell A	4.0	33
			Cell B	0.5	26
	1427-1518	11,21,74,75,76	Cell A	3.8	51
			Cell B	5.4	58
	1710-1920	2,3,4,9,25,35,39,66	Cell A	4.5	38
			Cell B	4.8	43
	1920-2170	1,23	Cell A	4.4	38
			Cell B	6.8	60
	2300-2400	30,40	Cell A	3.9	40
			Cell B	5.3	44
	2496-2690	7,38,41	Cell A	4.5	45
			Cell B	6.8	63
	3300-4200	22,42,43,48,77,78	Cell A	4.1	42
			Cell B	5.4	46

Typical VSWR

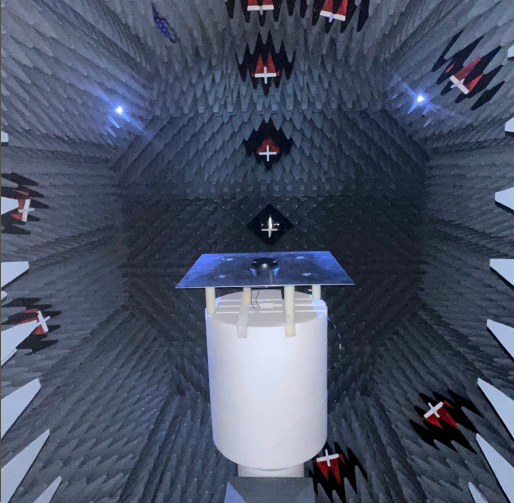


VSWR measured with 2m (6.6') of FR CS30 cable on 600x600 (2'x2') ground plane

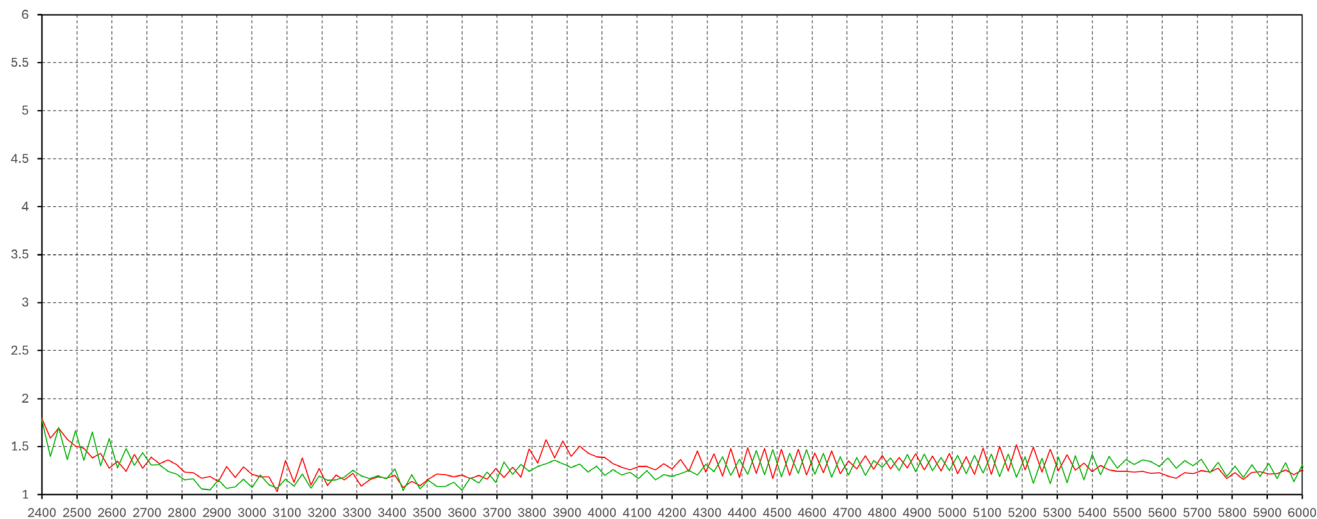
Ultra Low Profile MiMo IOT Antenna

L[X]M2-7-27-[X]

Electrical Data - WiFi
on Ground Plane

Measurement Conditions	WiFi Antennas				
LGDM2-7-27-2 measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') FR CS30 cables	Frequency Range (MHz)	WiFi Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	2400-2485	2.4GHz	WiFi 1	4.4	55
			WiFi 2	4.2	58
	5150-5250	UNII-1	WiFi 1	6.8	46
			WiFi 2	6.5	46
	5250-5350	UNII-2A	WiFi 1	6.8	46
			WiFi 2	6.2	46
	5350-5470	UNII-2B	WiFi 1	6.9	47
			WiFi 2	6.4	42
	5470-5725	UNII-2C	WiFi 1	7.7	46
			WiFi 2	7.1	40
	5725-5850	UNII-3	WiFi 1	8.1	43
			WiFi 2	7.1	37
	5850-5925	UNII-4	WiFi 1	8.3	41
			WiFi 2	6.6	37

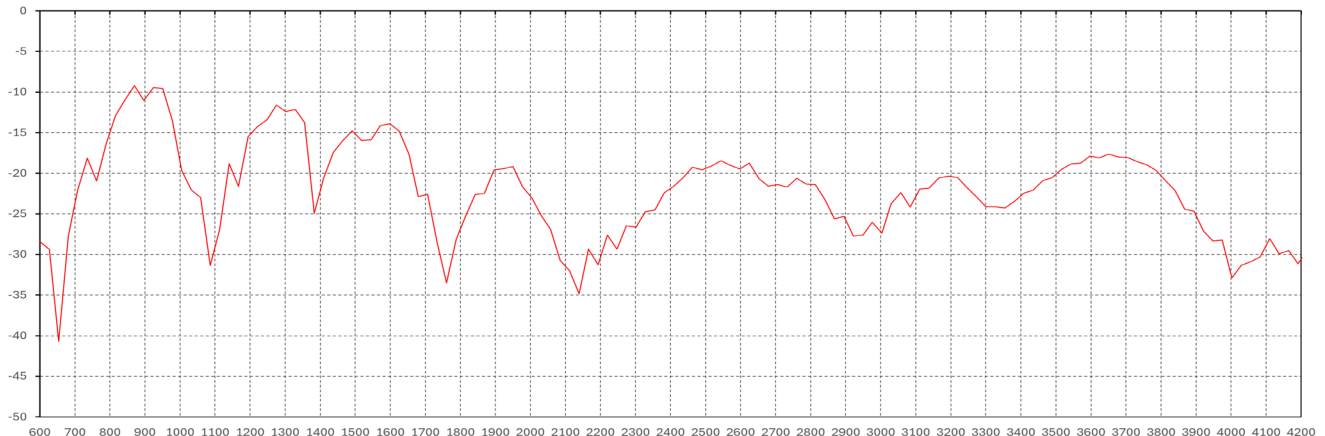
Typical VSWR



VSWR measured with 2m (6.6') of FR CS30 cable on 600x600 (2'x2') ground plane

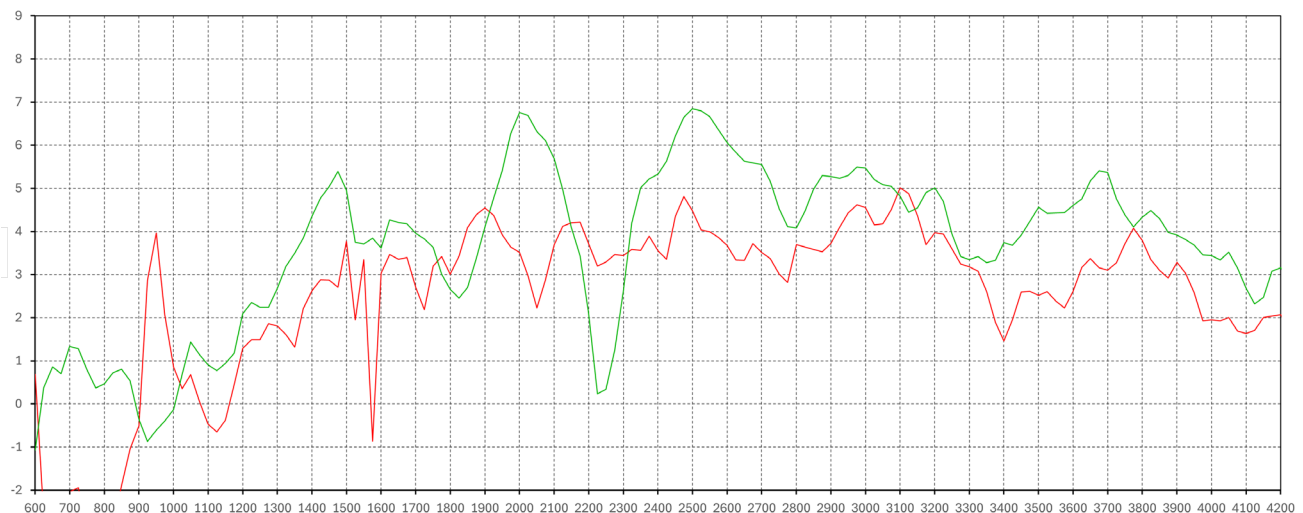
Electrical Data CELL on Ground Plane

Typical Isolation*



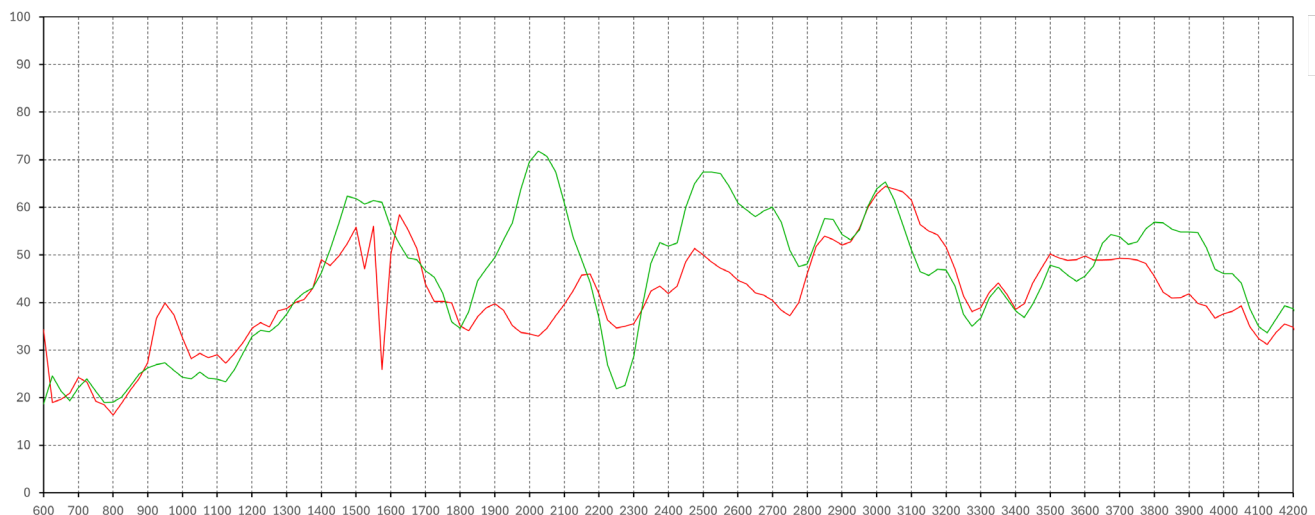
Isolation measured with 2m (6.6') of FR CS30 cable on 600x600 (2'x2') ground plane

Typical Swept Peak Gain



Swept Peak Gain measured with 0.5m (1.6') of FR CS30 cable on 600x600 (2'x2') ground plane

Typical Efficiency



Efficiency measured with 0.5m (1.6') of FR CS30 cable on 600x600 (2'x2') ground plane

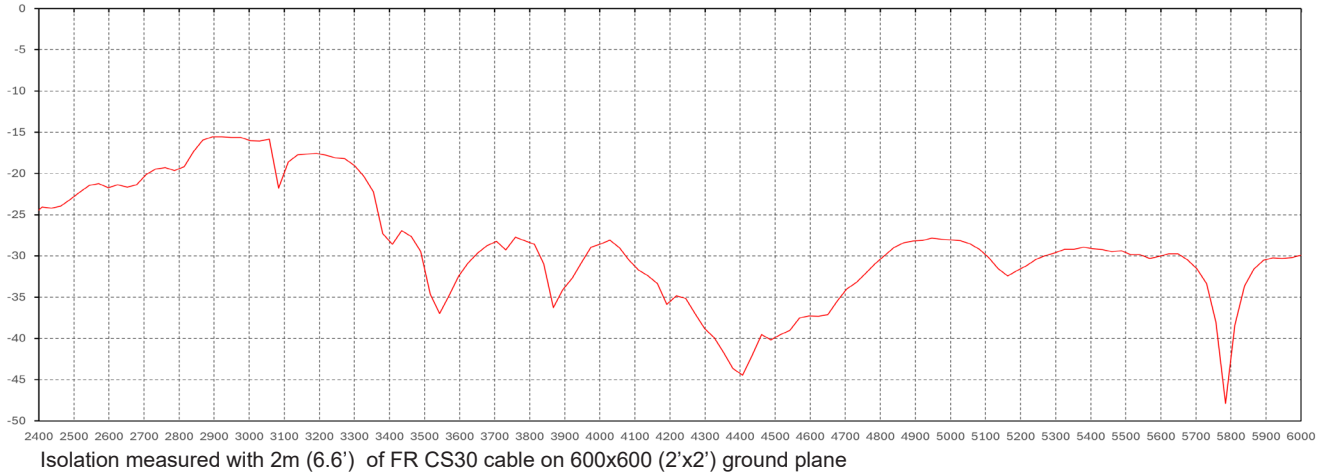
Ultra Low Profile MiMo IOT Antenna

L[X]M2-7-27-[X]

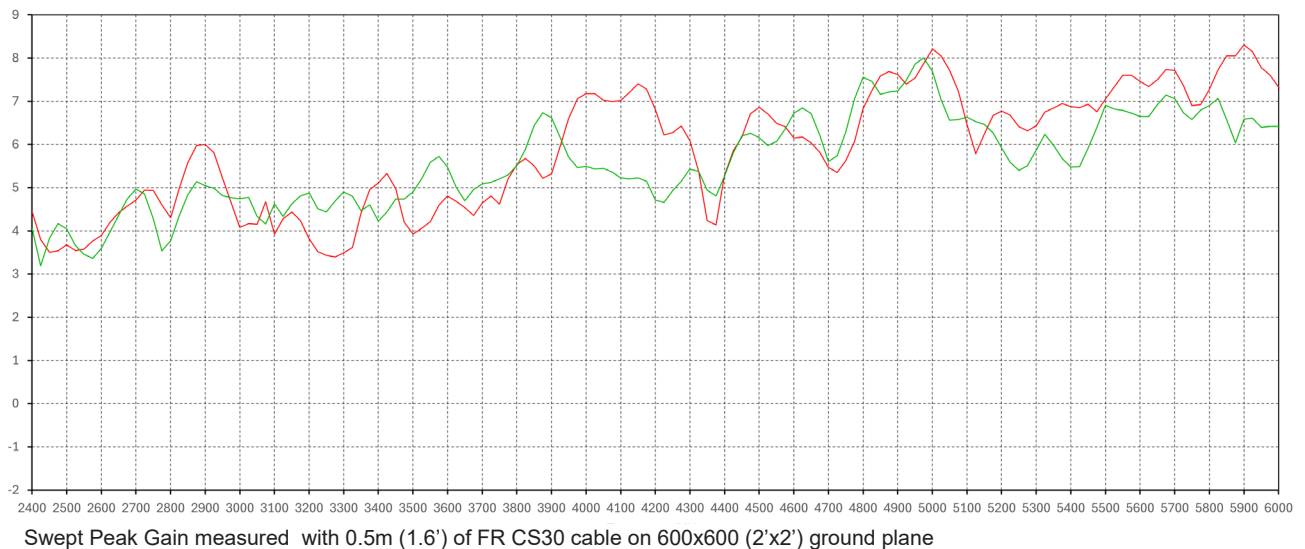
PANORAMA ANTENNAS

Electrical Data WIFI
on Ground Plane

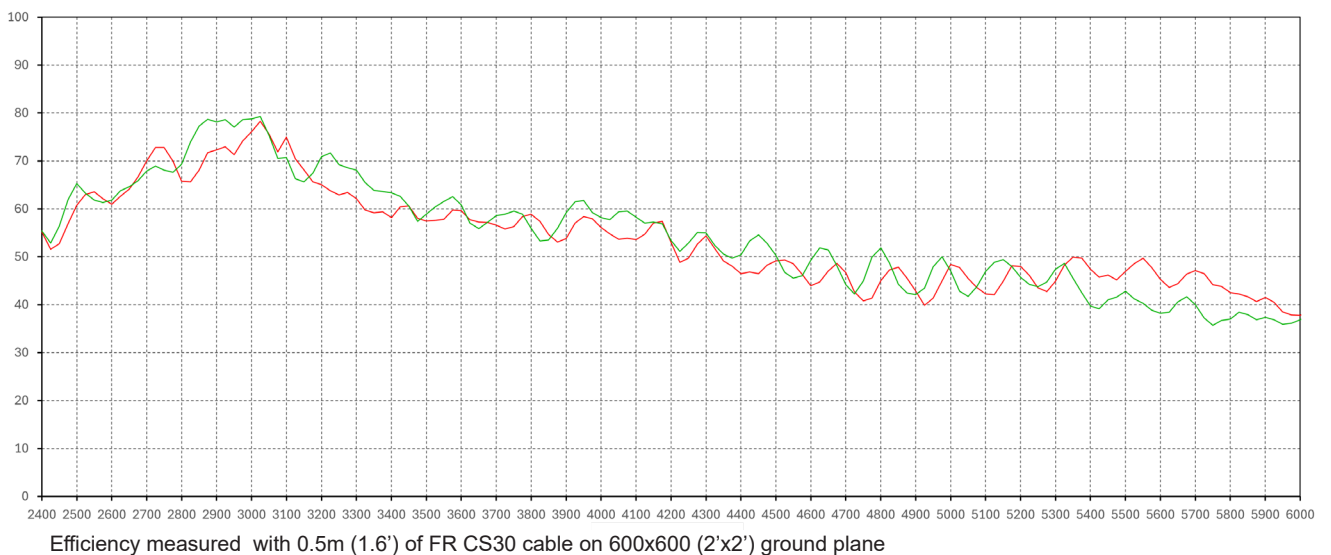
Typical Isolation*



Typical Swept Peak Gain



Typical Efficiency



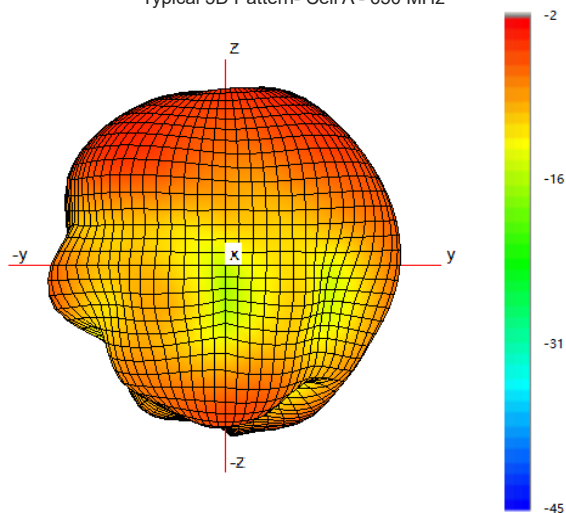
Ultra Low Profile MiMo IOT Antenna

L[X]M2-7-27-[X]

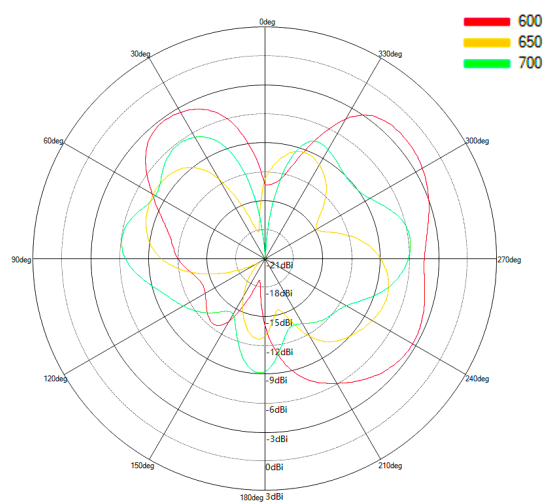
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Pattern Data on
Ground Plane Cell A

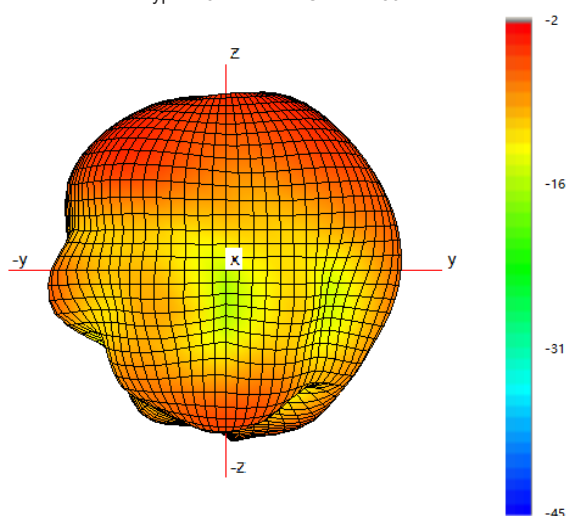
Typical 3D Pattern- Cell A - 650 MHz



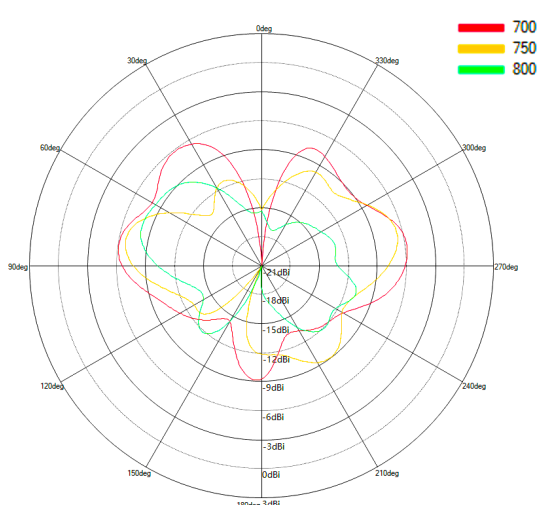
Typical H Plane- Cell A - Patterns- 600-700 MHz



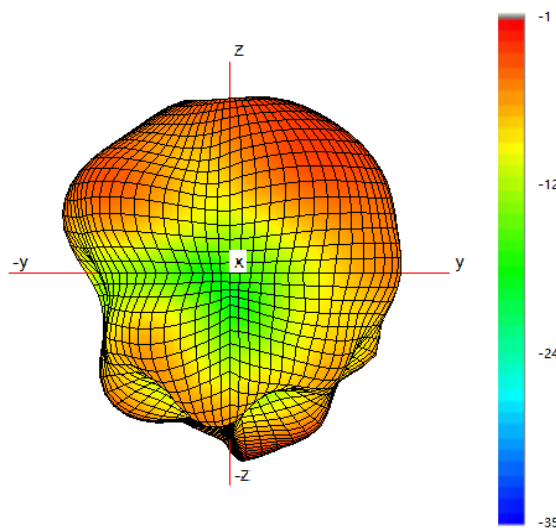
Typical 3D Pattern- Cell A - 750 MHz



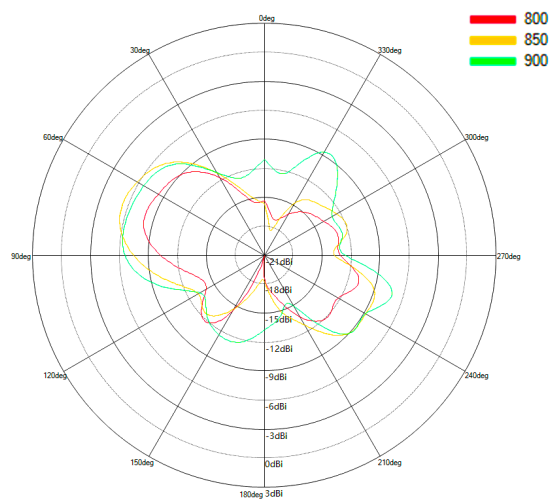
Typical H Plane- Cell A - Patterns- 700-800 MHz



Typical 3D Pattern- Cell A - 850 MHz



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



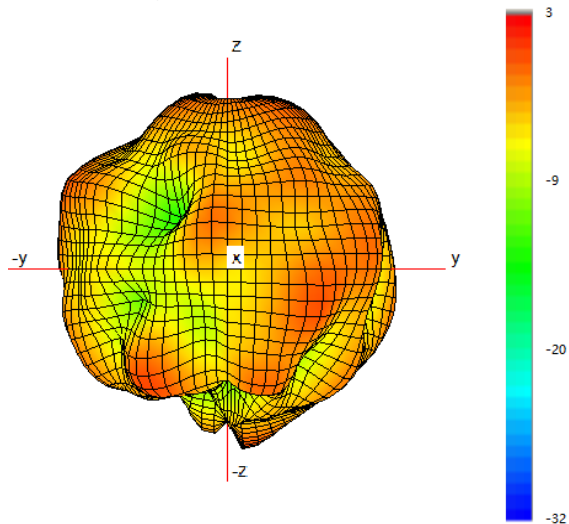
Ultra Low Profile MiMo IOT Antenna

L[X]M2-7-27-[X]

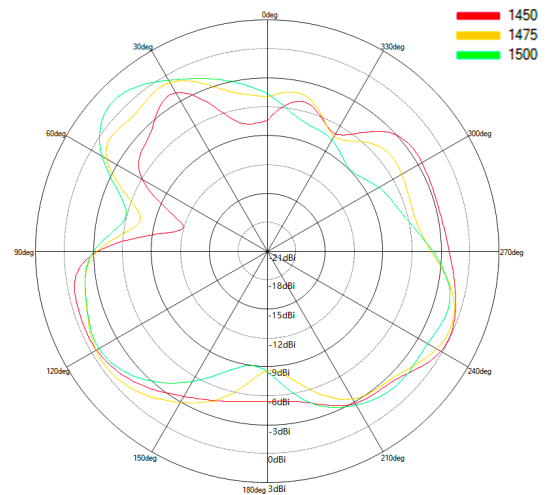
PANORAMA ANTENNAS

Pattern Data on
Ground Plane Cell A

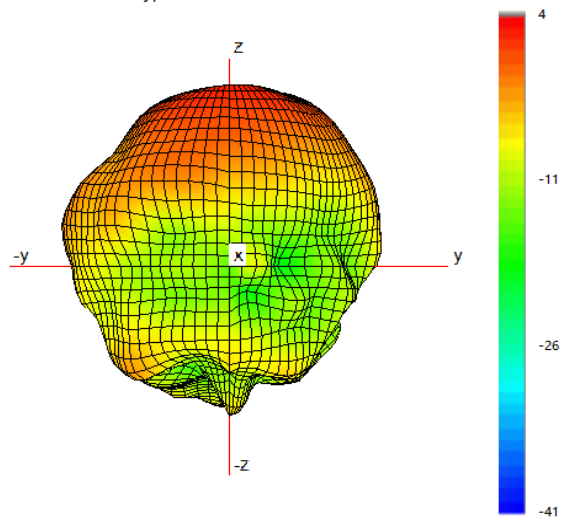
Typical 3D Pattern- Cell A - 1475 MHz



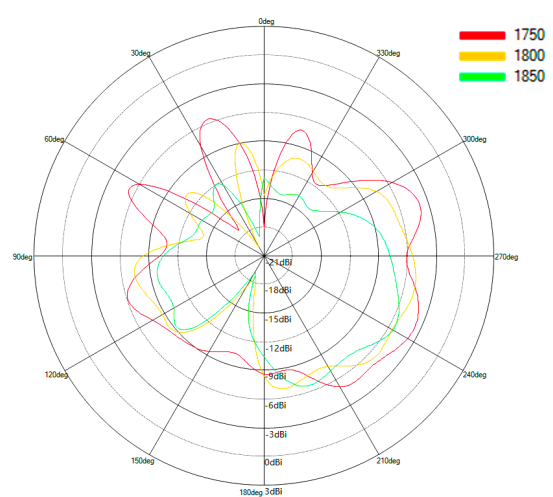
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



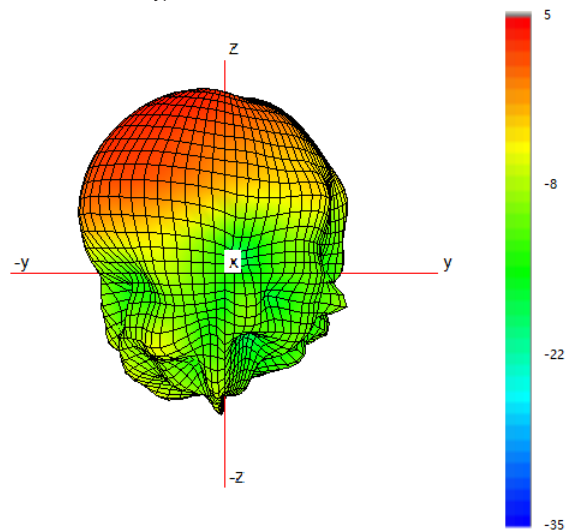
Typical 3D Pattern- Cell A - 1800 MHz



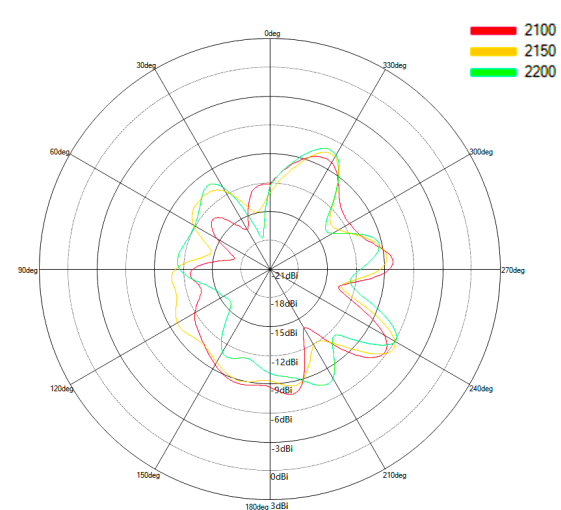
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



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



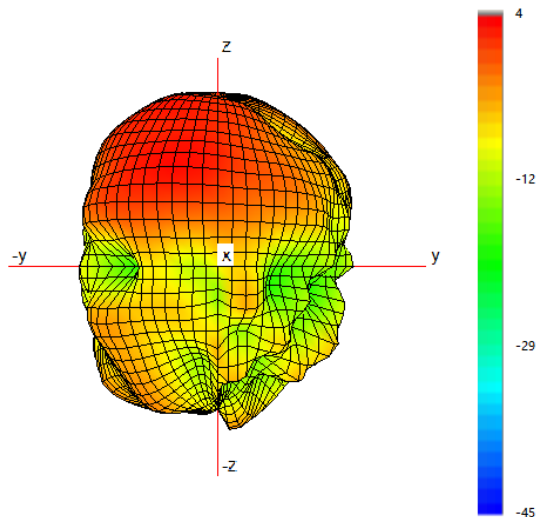
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L[X]M2-7-27-[X]

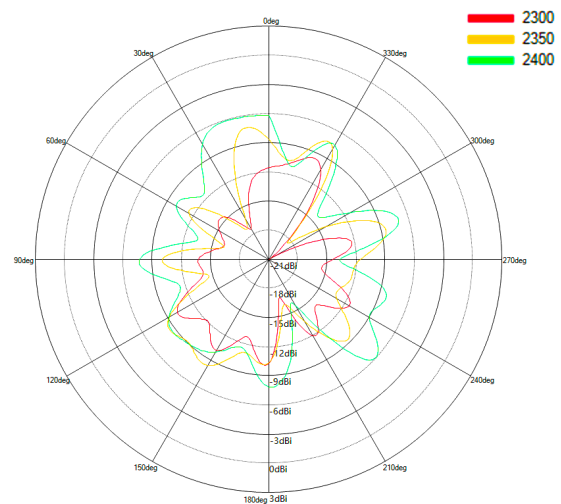
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Pattern Data on
Ground Plane Cell A

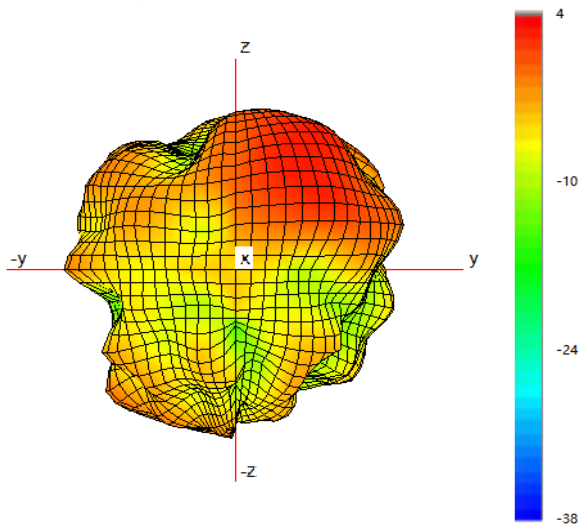
Typical 3D Pattern- Cell A - 2350 MHz



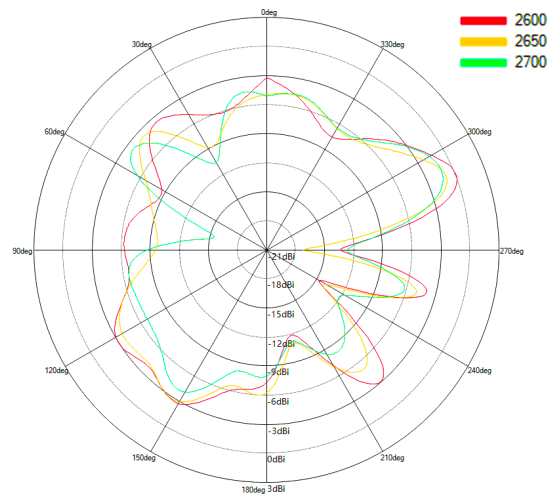
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



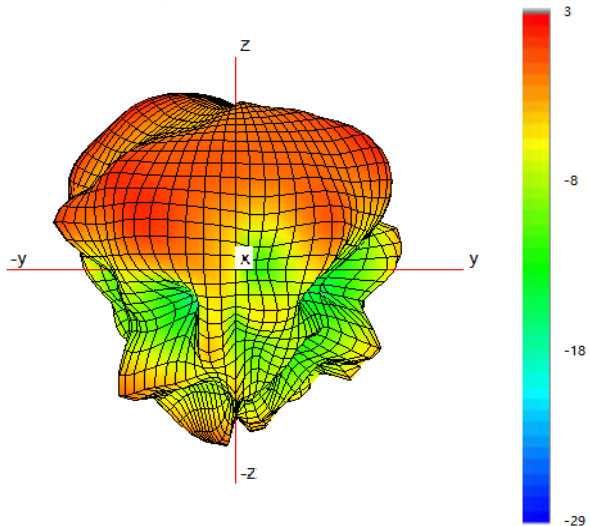
Typical 3D Pattern- Cell A - 2650 MHz



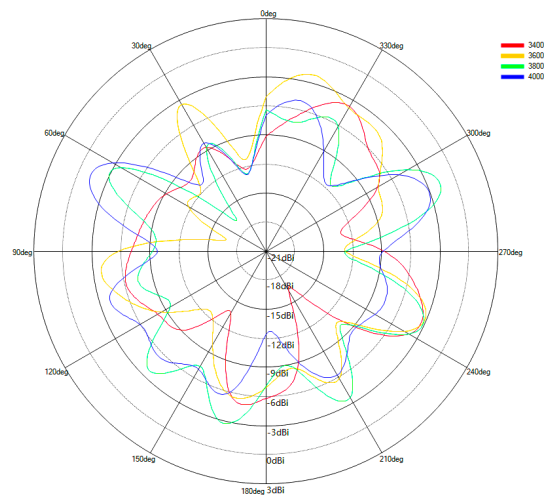
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



Typical H Plane- Cell A - Patterns- 3600-4000 MHz



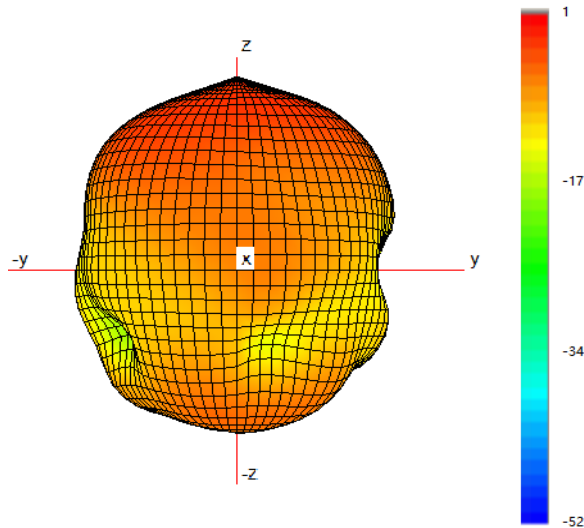
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L[X]M2-7-27-[X]

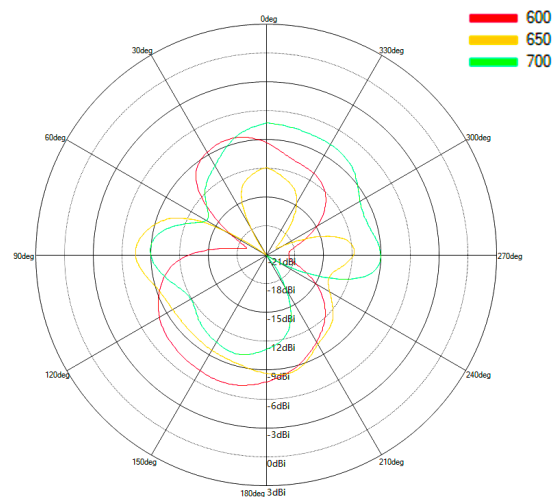
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Pattern Data on
Ground Plane Cell B

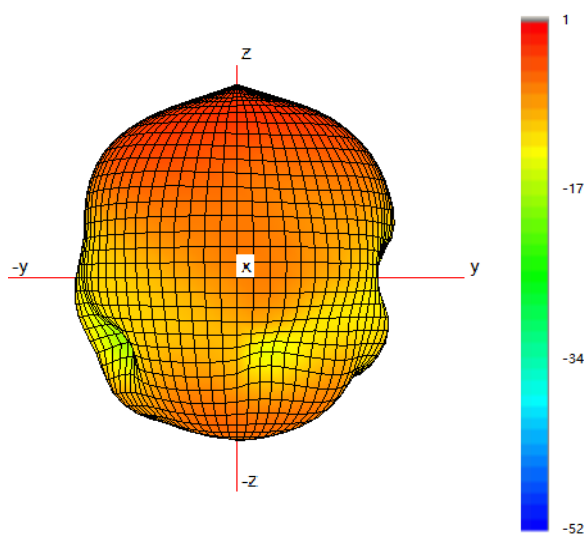
Typical 3D Pattern- Cell B - 650 MHz



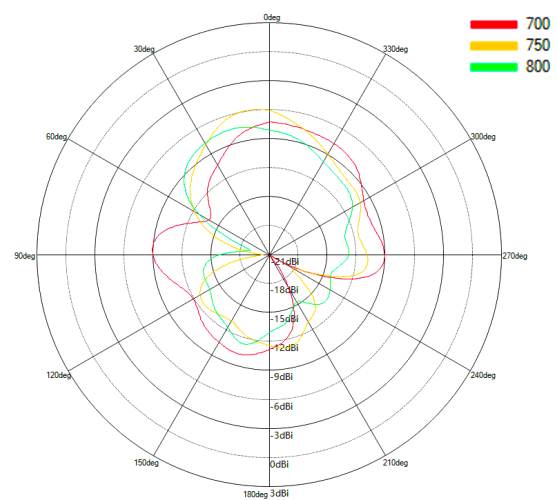
Typical H Plane- Cell B - Patterns- 600-700 MHz



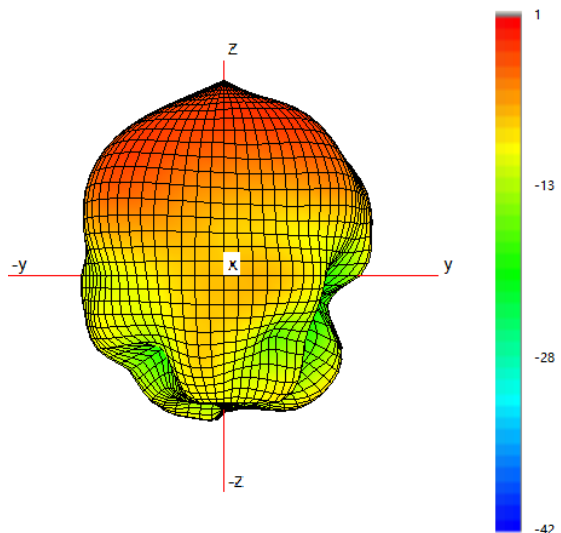
Typical 3D Pattern- Cell B - 750 MHz



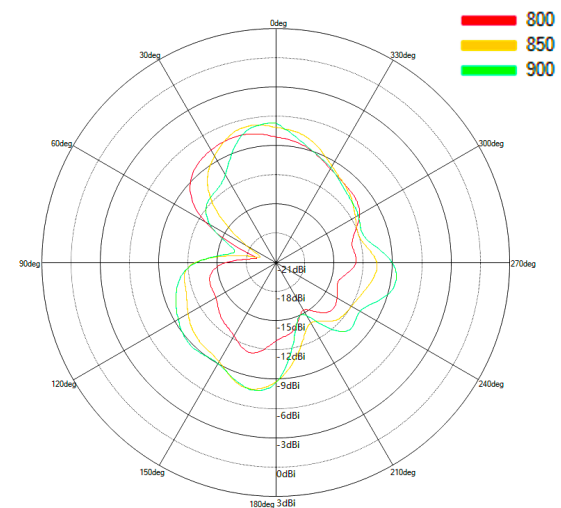
Typical H Plane- Cell B - Patterns- 700-800 MHz



Typical 3D Pattern- Cell B - 850 MHz



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



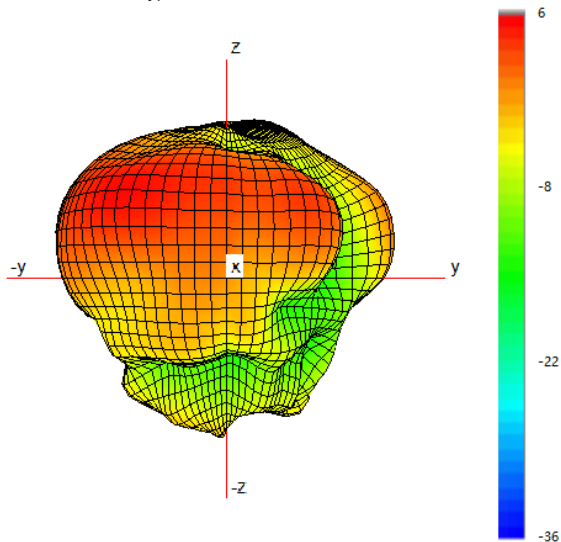
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L[X]M2-7-27-[X]

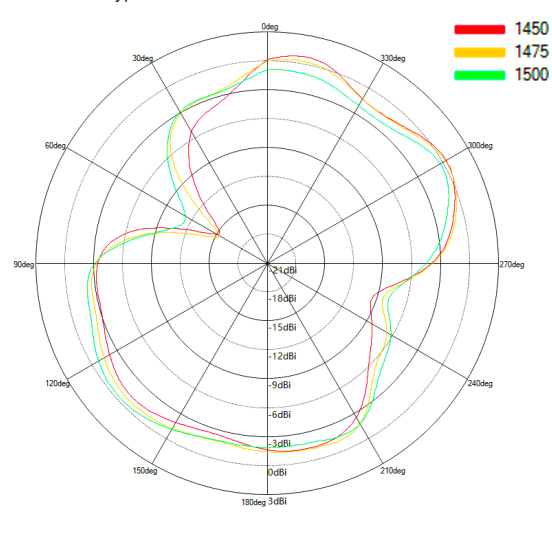
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Pattern Data on
Ground Plane Cell B

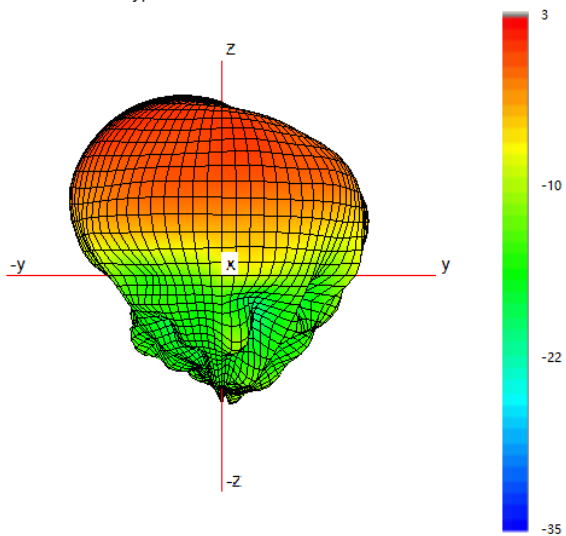
Typical 3D Pattern- Cell B - 1475 MHz



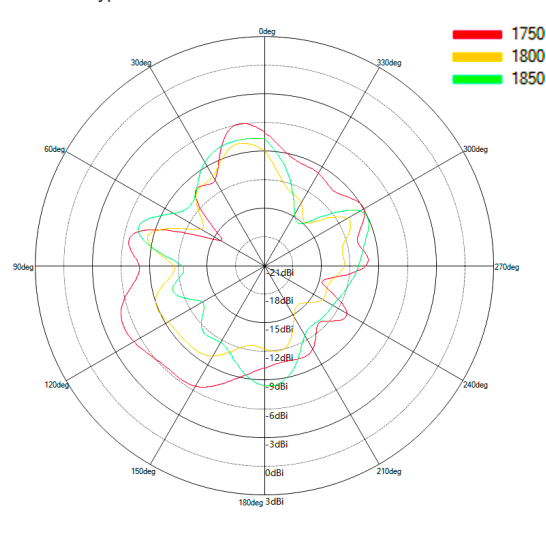
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



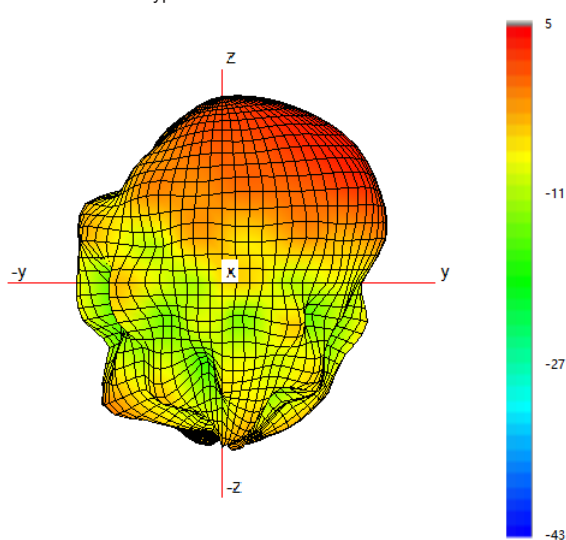
Typical 3D Pattern- Cell B - 1800 MHz



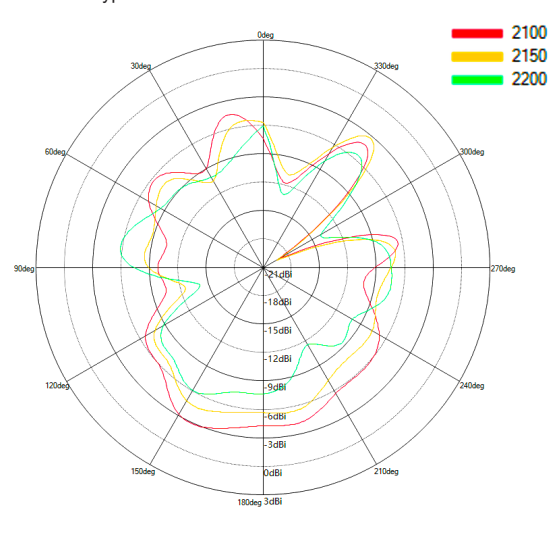
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



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



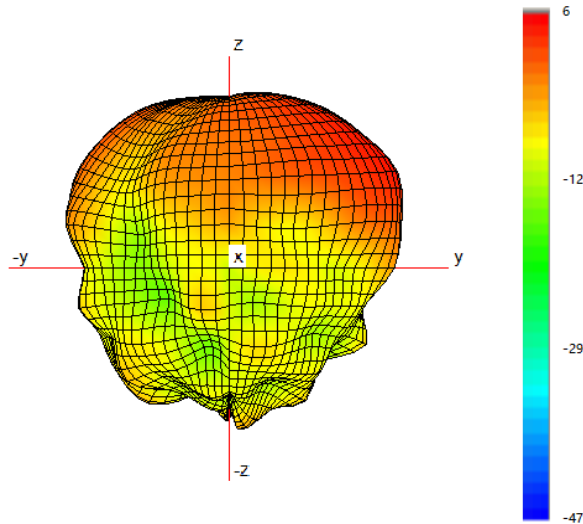
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L[X]M2-7-27-[X]

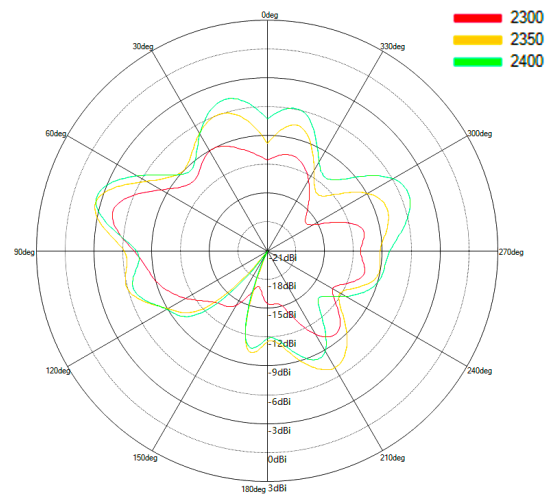
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Pattern Data on
Ground Plane Cell B

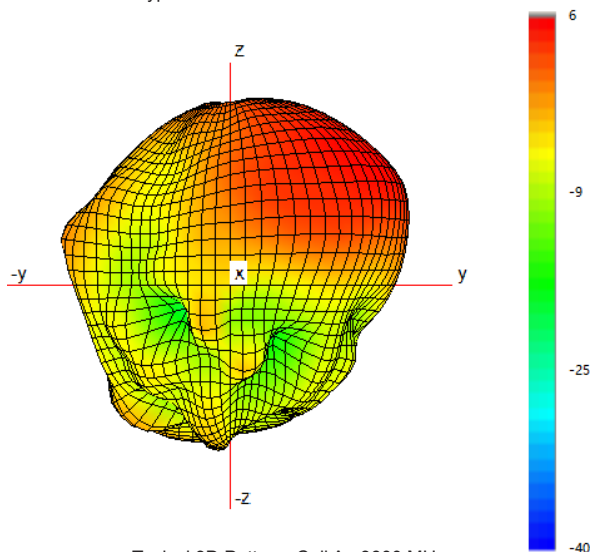
Typical 3D Pattern- Cell B - 2350 MHz



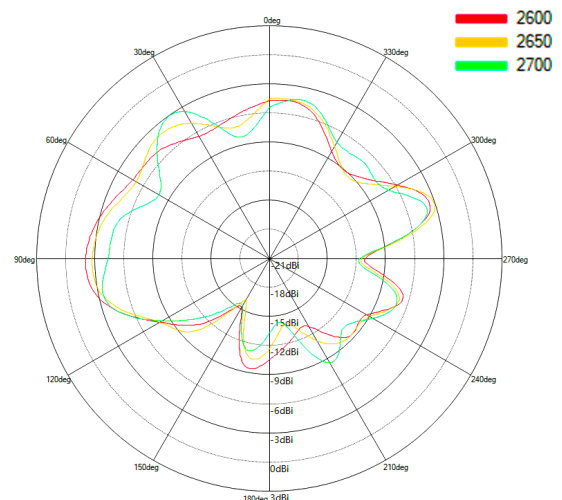
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



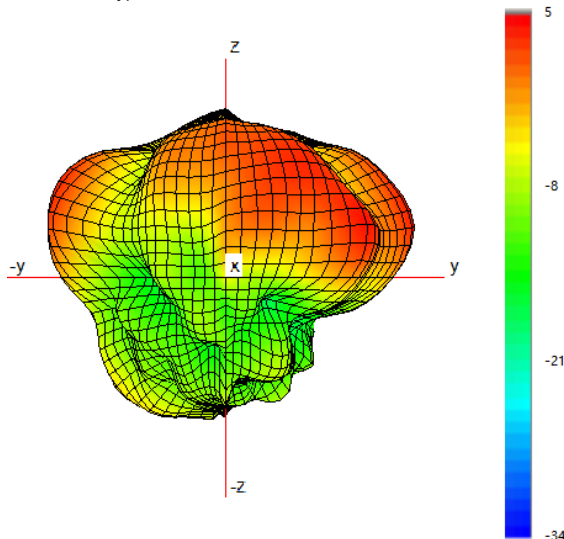
Typical 3D Pattern- Cell B - 2650 MHz



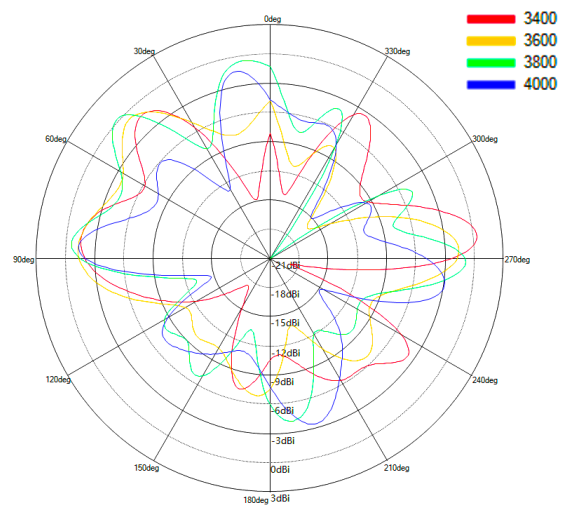
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



Typical H Plane- Cell A - Patterns- 3600-4000MHz



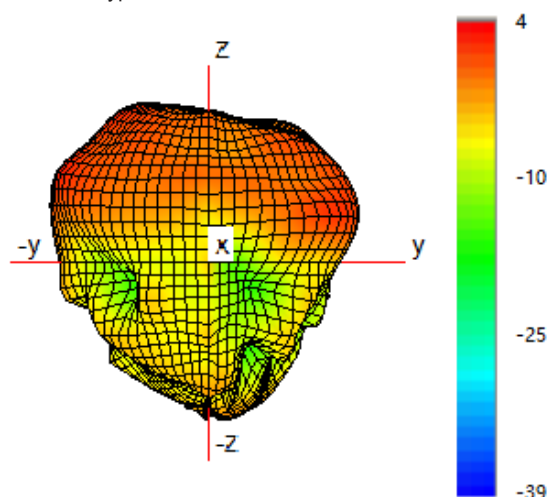
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L[X]M2-7-27-[X]

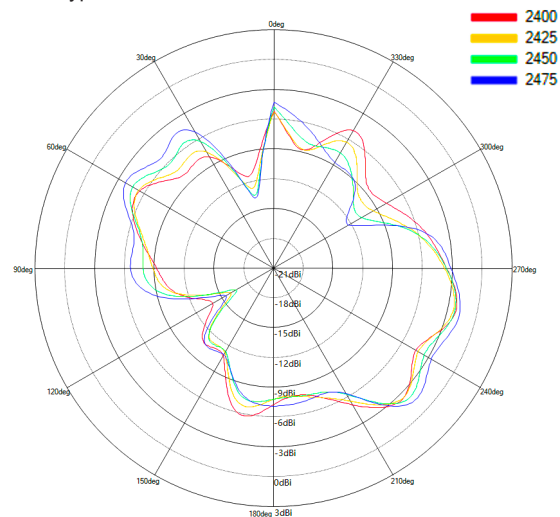
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3D Pattern Data on
Ground Plane WiFi - 1

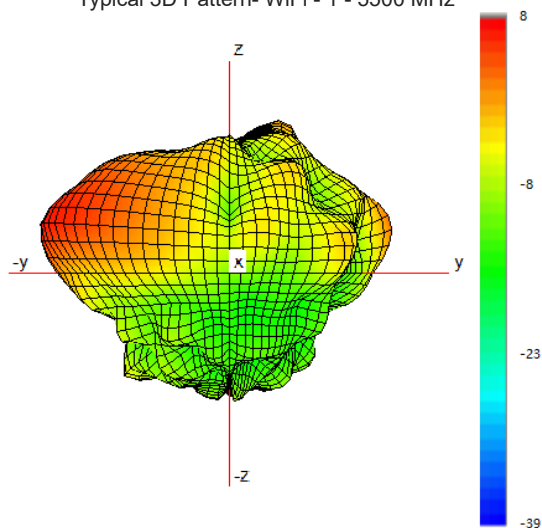
Typical 3D Pattern- WiFi - 1 - 2450 MHz



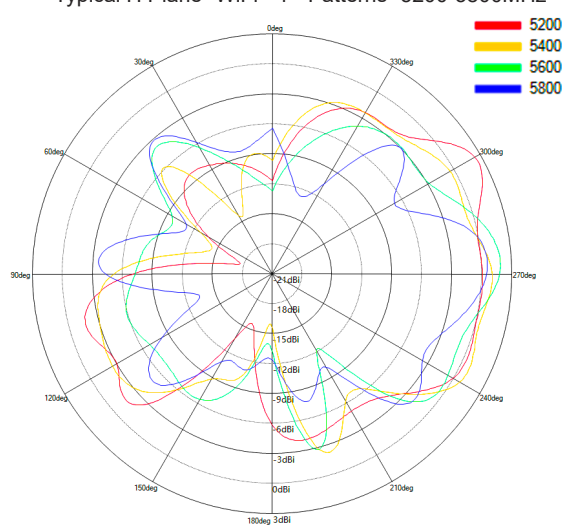
Typical H Plane- WiFi - 1 - Patterns- 2400-2475MHz



Typical 3D Pattern- WiFi - 1 - 5500 MHz



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



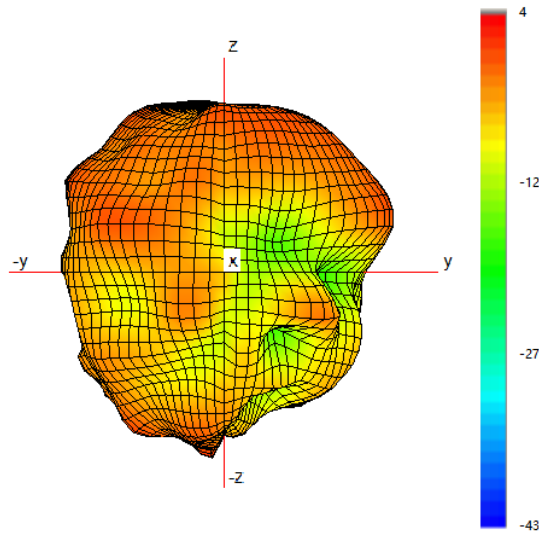
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L[X]M2-7-27-[X]

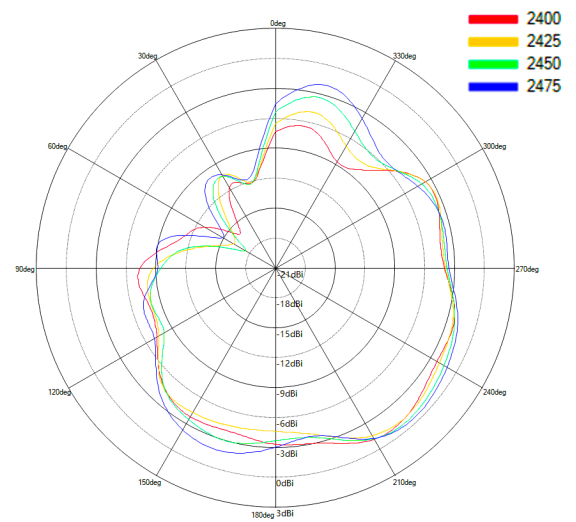
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3D Pattern Data on
Ground Plane WIFI- 2

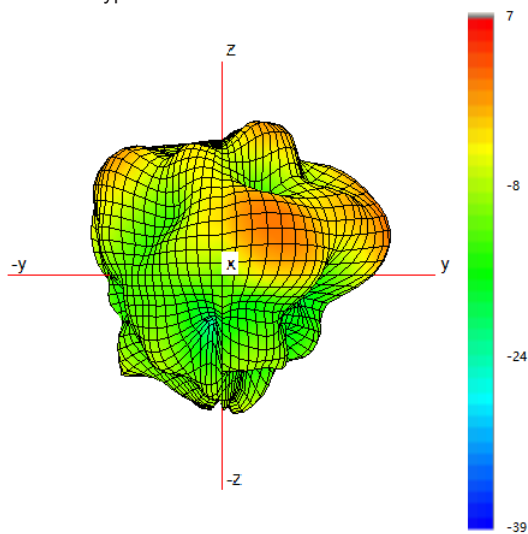
Typical 3D Pattern- WiFi - 2 - 2450 MHz



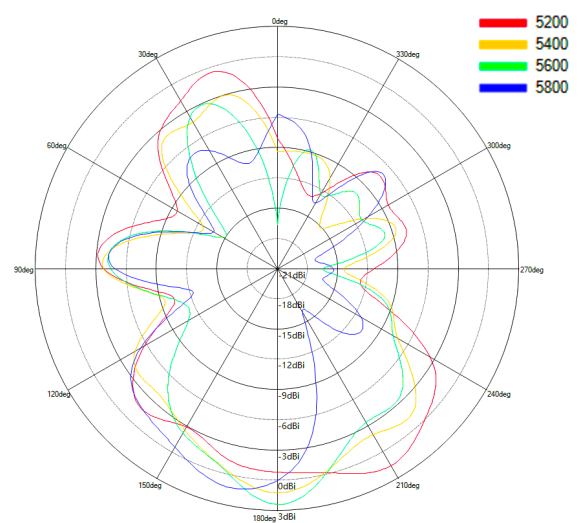
Typical H Plane- WiFi - 2 - Patterns- 2400-2475MHz



Typical 3D Pattern- WiFi - 2 - 5500 MHz



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



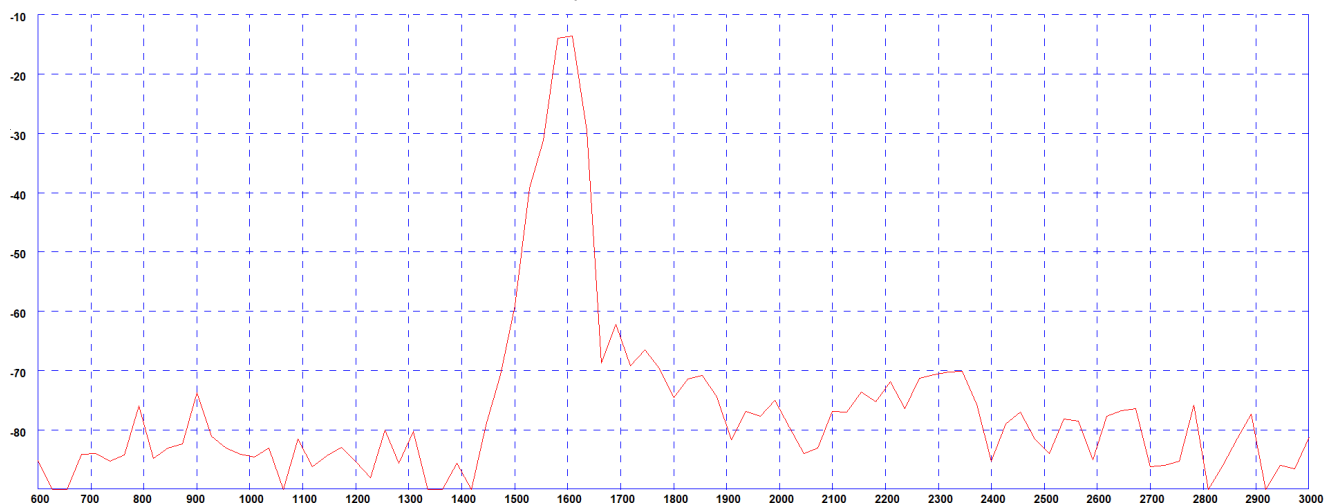
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L[X]M2-7-27-[X]

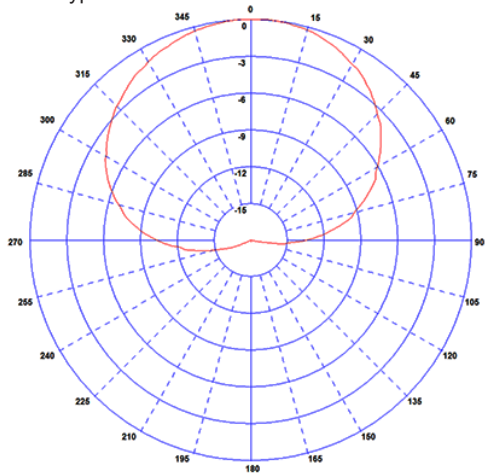
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Electrical Data- L1 GPS/GNSS

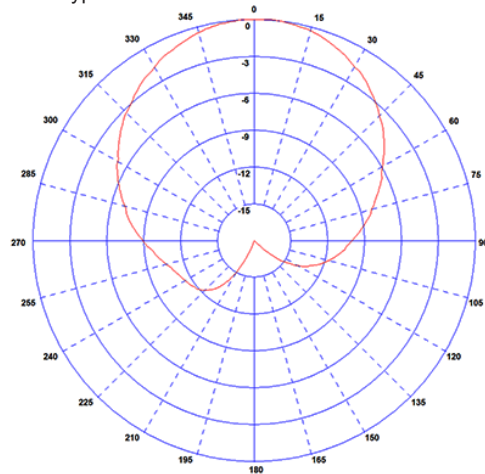
Swept Peak Gain GPS/GNSS



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