



Features:

- 2xMiMo 698-960/1710-2690MHz
- WiFi 2400-2500/4900-5900MHz
- Size 145x135x25mm
- Adhesive mount on plastic and glass fiber surfaces
- Mounting accessory for metallic surfaces

Applications:

- Vehicle mount multiband antenna
- High Speed LTE data and WiFi
- Fleet management
- Utility Vans (Gas, Water, Electricity)

All dimensions are in mm / inches

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

PART NUMBER: LPMB401

ELECTRICAL SPECIFICATIONS

LTE Antenna

Frequency	698-960/1710-2690 MHz
Nominal Impedance	50 Ω
VSWR(*)	2.5 Max
Average Efficiency(698-960MHz)(**)	64 %
Average Efficiency(1710-2690MHz) (**)	57 %
Peak Gain(698-960MHz) (**)	2.0 dBi
Peak Gain(1710-2690MHz) (**)	4.4 dBi

WIFI Antenna

Frequency	2400-2500/4900-5900 MHz
Nominal Impedance	50 Ω
VSWR (*)	2 Max
Average Efficiency(2400-2500MHz) (**)	63 %
Average Efficiency(4900-5900MHz) (**)	73 %
Peak Gain(2400-2500MHz) (**)	3.5 dBi
Peak Gain(4900-5900MHz) (**)	4.7 dBi

* Measured on 500mm ground plane with LMR195 3m cable

** Measured on 500mm ground plane with LMR195 320mm cable

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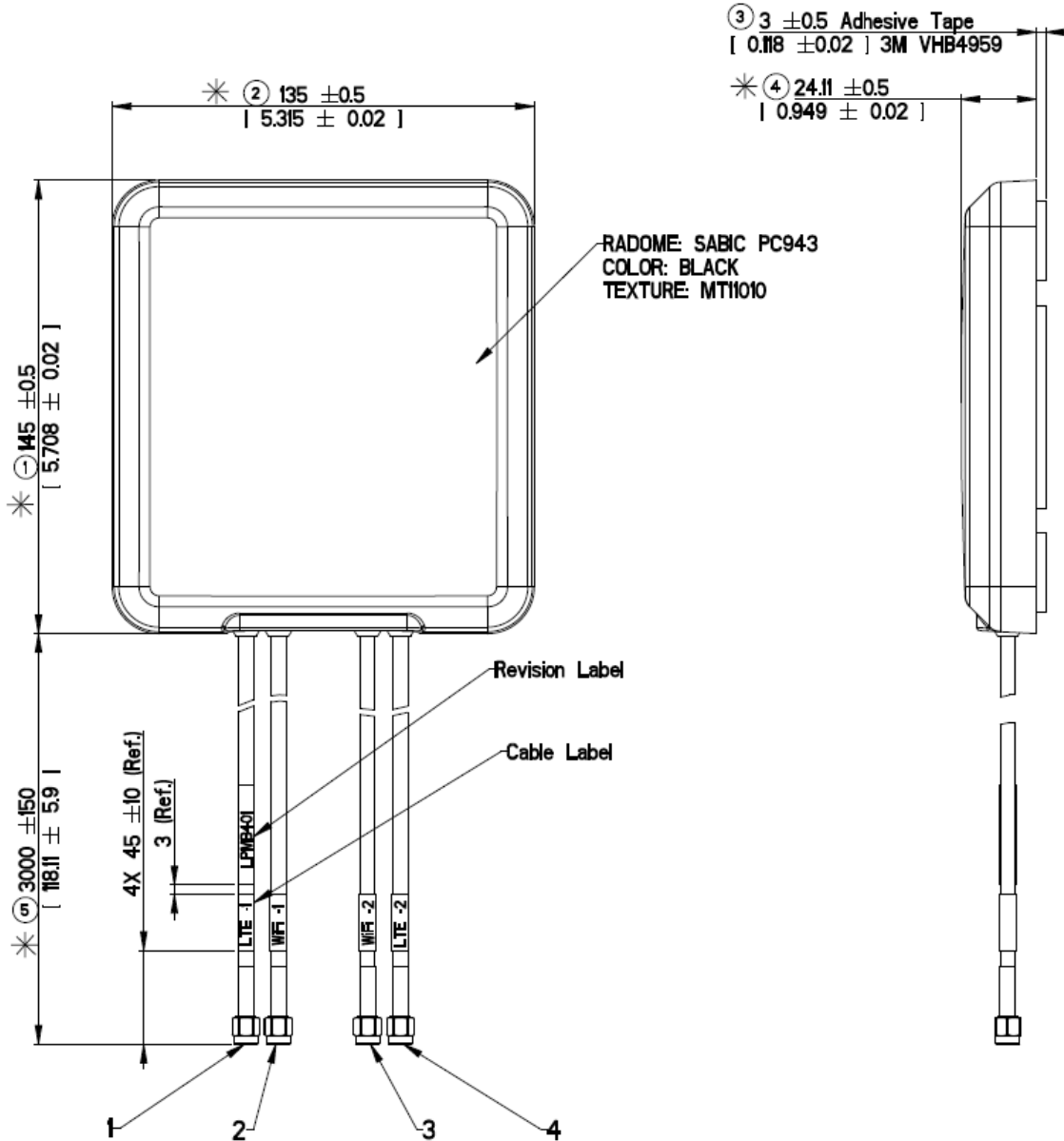
MECHANICAL SPECIFICATIONS

Antenna Color / Material :	SABIC PC943, Black
Weight :	607g
Cable and Connector type:	
	LTE-1: LMR195* SMA Male
	LTE-2: LMR195* SMA Male
	WiFi-1: LMR195* RP-SMA Male
	WiFi-2: LMR195* RP-SMA Male
	* Or Equivalent
Cable length:	3 Meters
Mounting System:	Adhesive Tape
	3mmThick 3M VHB 4959

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40~ +85° C
Ingress Protection	IP67
RoHS Compliant	Yes

MECHANICAL DRAWING



LPMB401	P/N	CABLE	CABLE LENGTH	CONNECTOR
1. LTE-1 Cable Assy	125-01188.001	LMR-195	3 Meters 9.84FT/118.11"	SMA Male
2. WiFi-1 Cable Assy	125-01190.001			RP-SMA Male
3. WiFi-2 Cable Assy	125-01191.001			RP-SMA Male
4. LTE-2 Cable Assy	125-01189.001			SMA Male

• OR EQUIVALENT

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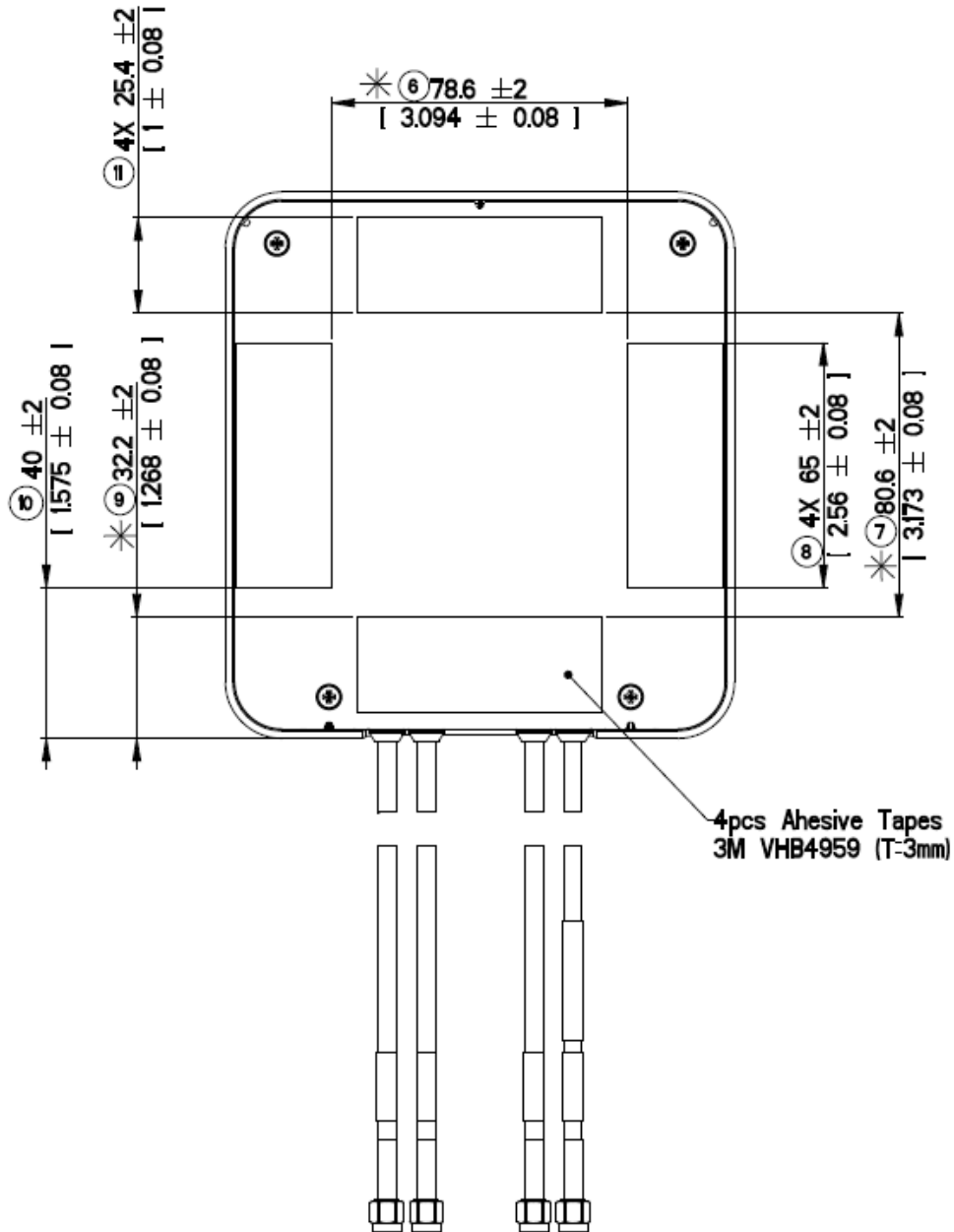
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TEST SETUP

Below performance test in two situation

Situation 1 . Test in free space .

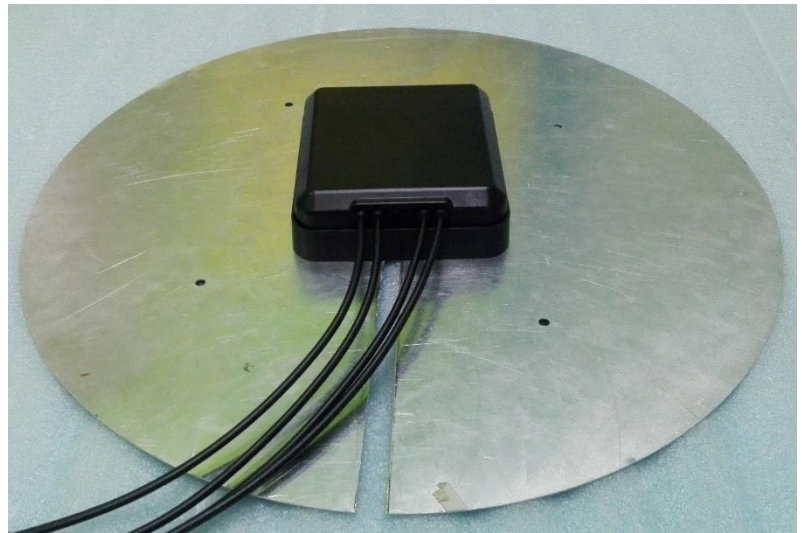
Situation 2. Test on 1 inch bracket with ϕ 500mm (19.7inch) ground.

Situation 1



Free space

Situation 2



Ground plane ϕ =500mm(19.7inch)
Bracket height=1inch

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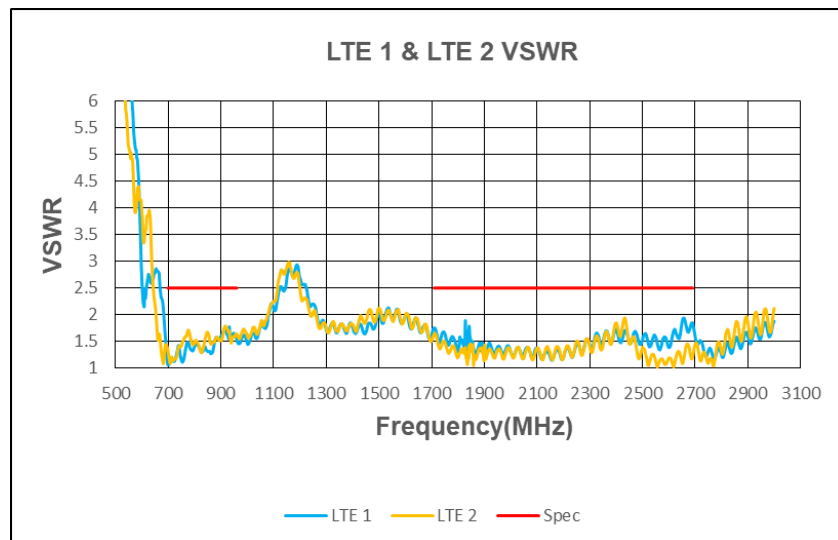
PART NUMBER: LPMB401

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Situation 1: Performance in free space



LTE 1 & LTE 2 VSWR



Note : Measured with 3m cable

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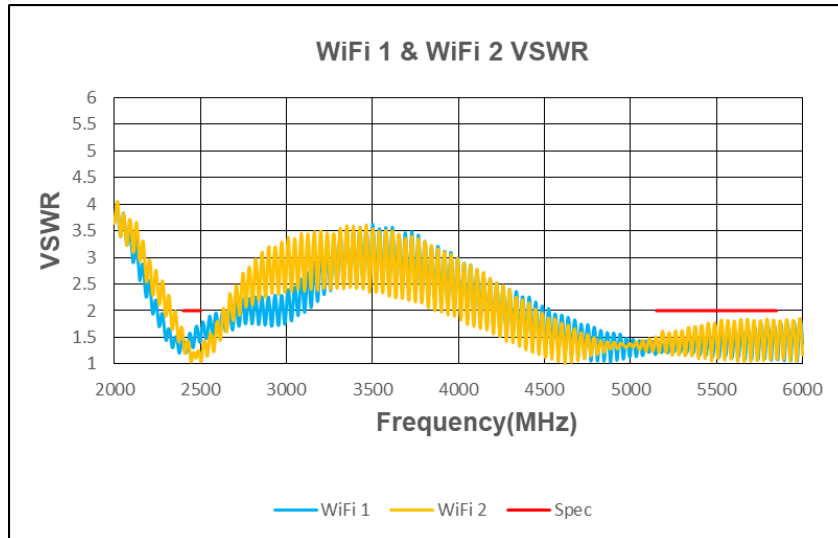
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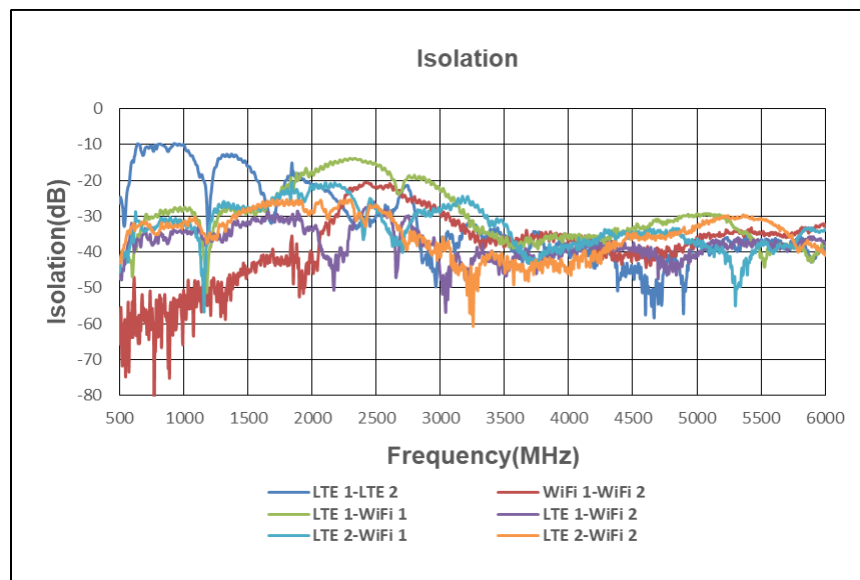
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CHARTS

WiFi1 & WiFi2 VSWR



Isolation



Note : Measured with 3m cable

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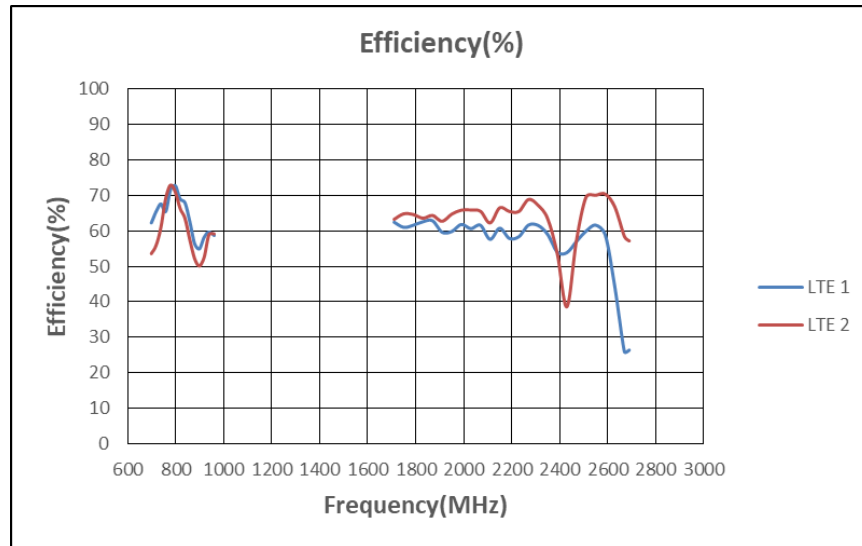
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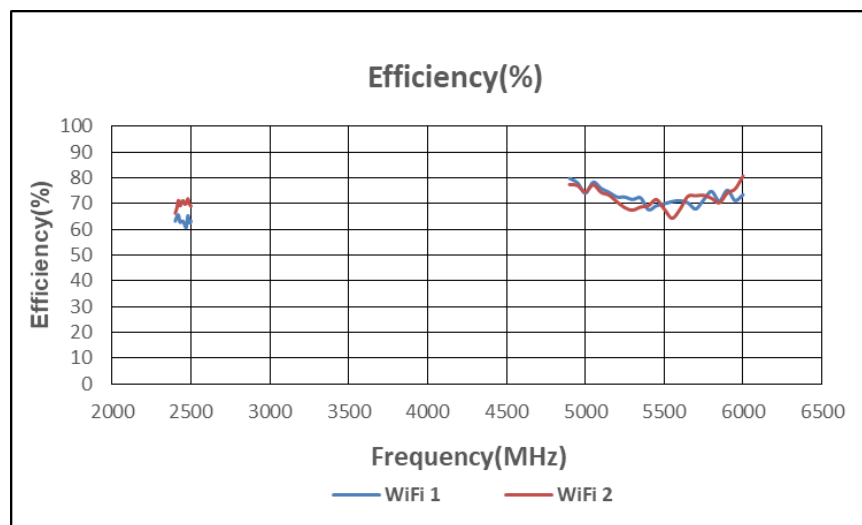
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LTE 1 and LTE2 Efficiency



WiFi 1 and WiFi 2 Efficiency



Note : Measured with 320mm cable

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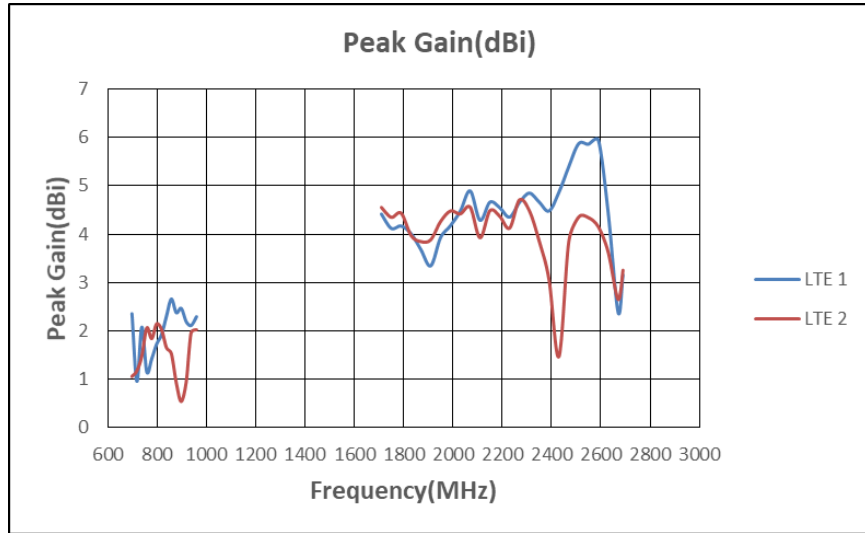
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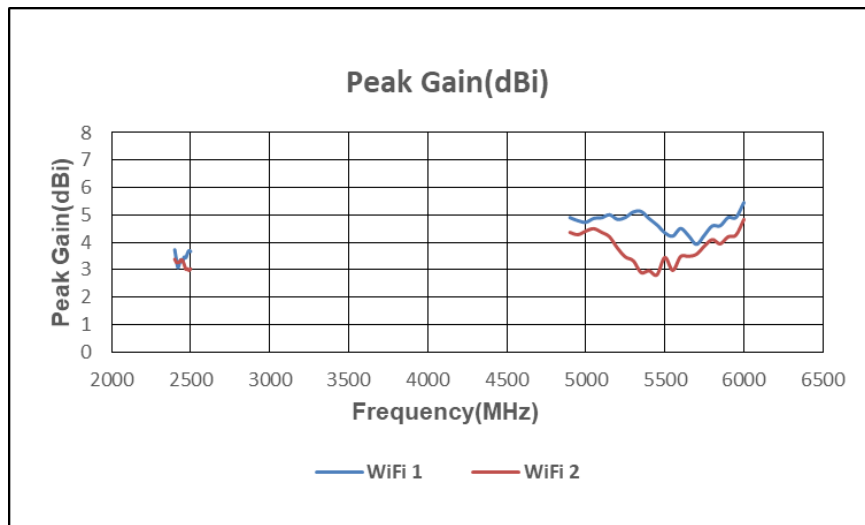
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CHARTS

LTE 1 and LTE2 Peak Gain



WiFi 1 and WiFi 2 Peak Gain



Note : Measured with 320mm cable

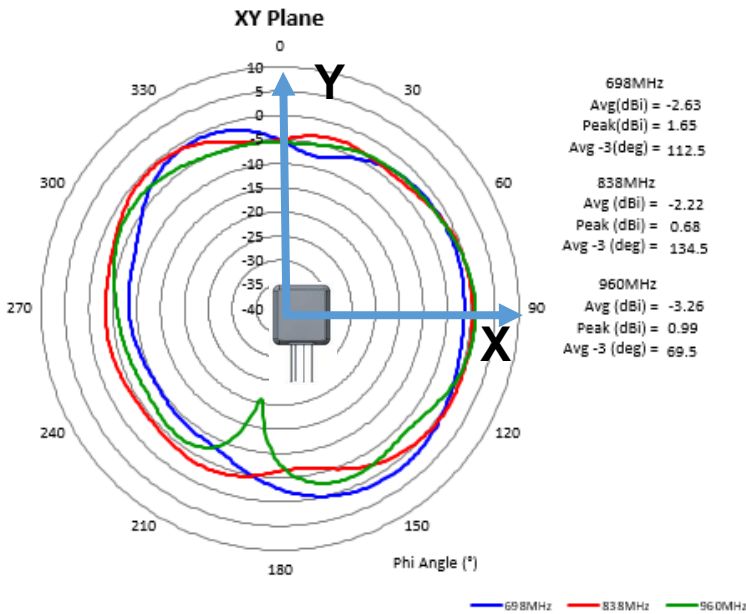
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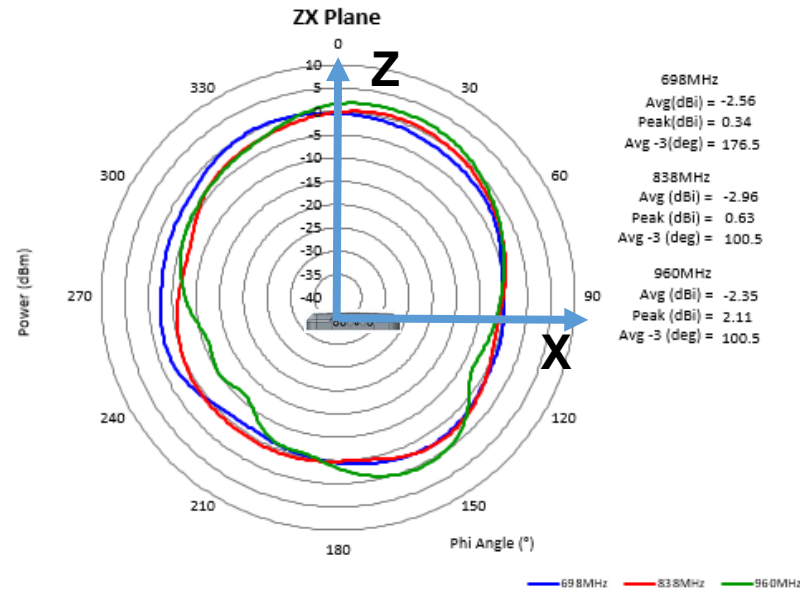
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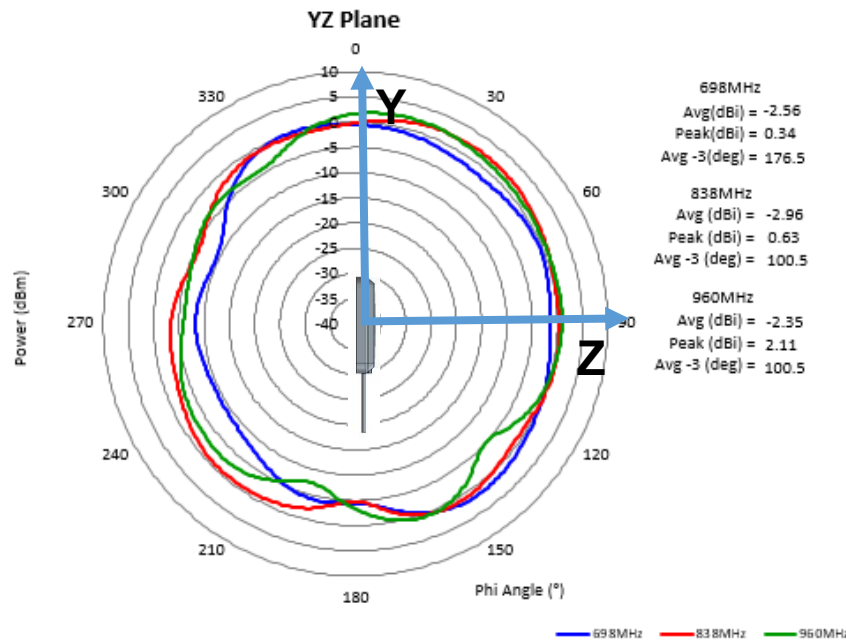
CHARTS



Gain Plots LTE 1



Gain Plots LTE 1



Gain Plots LTE 1

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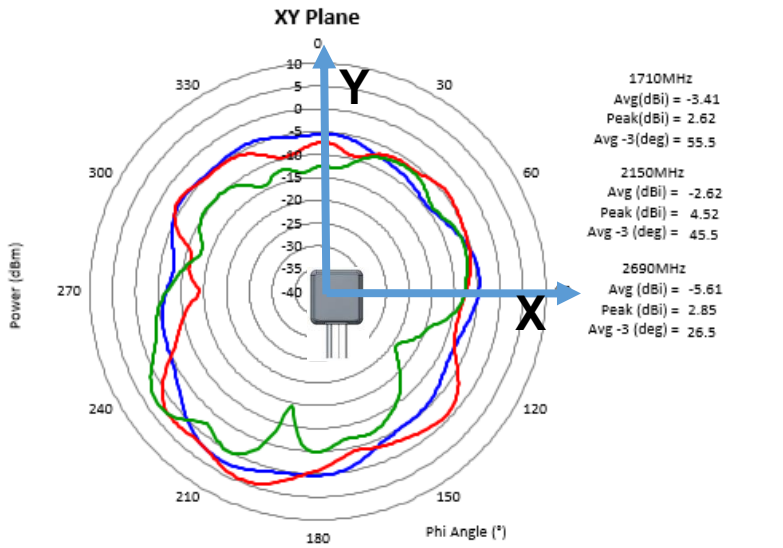
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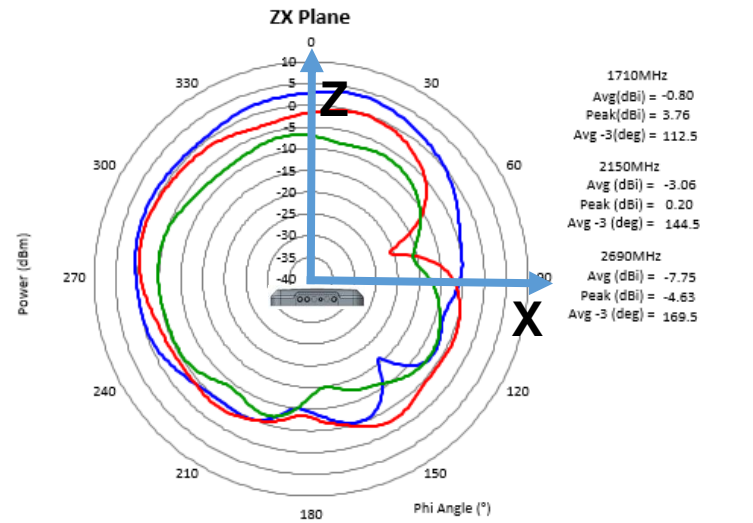
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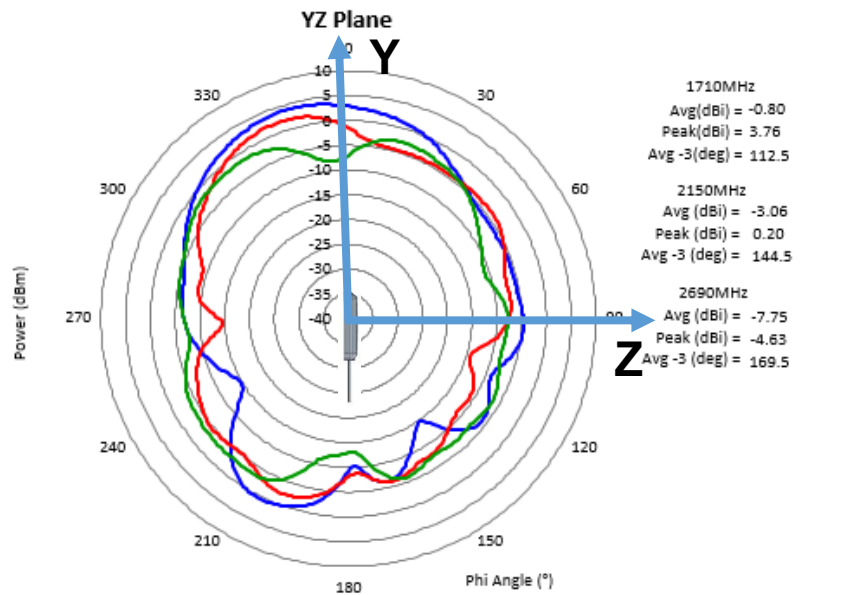
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Gain Plots LTE 1



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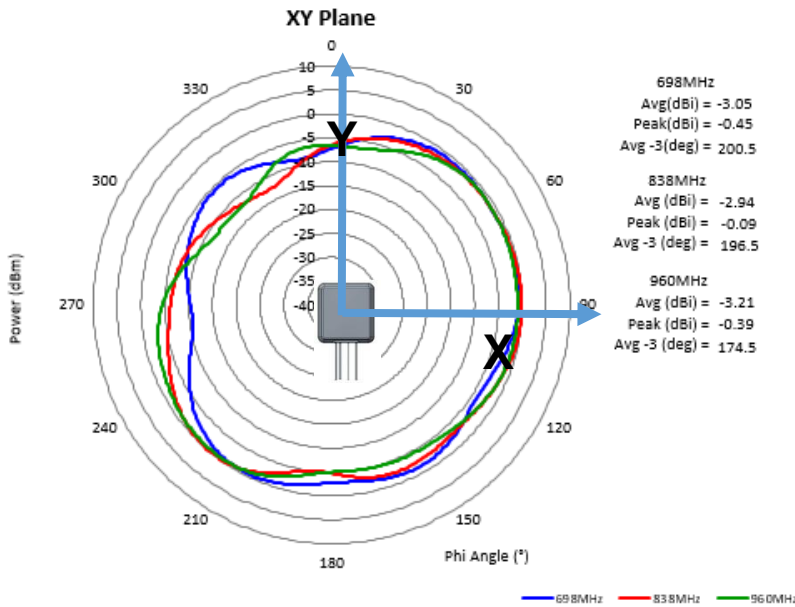
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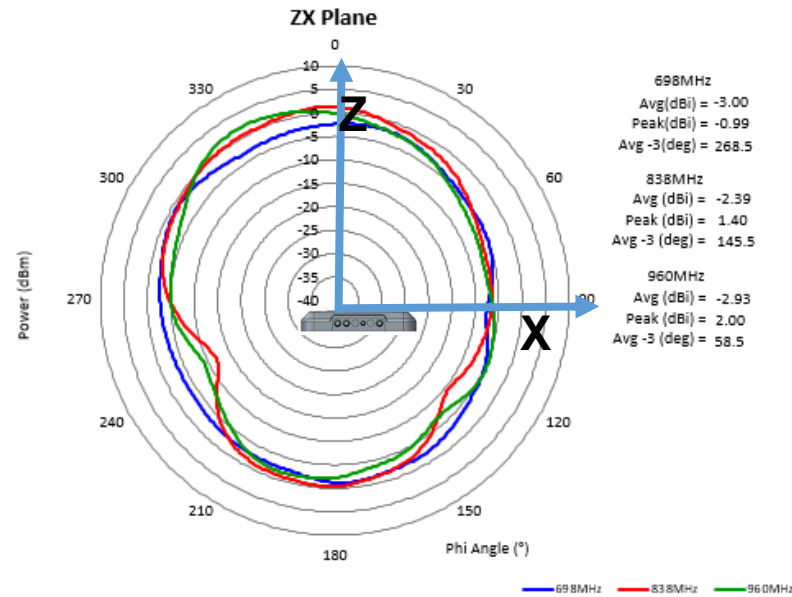
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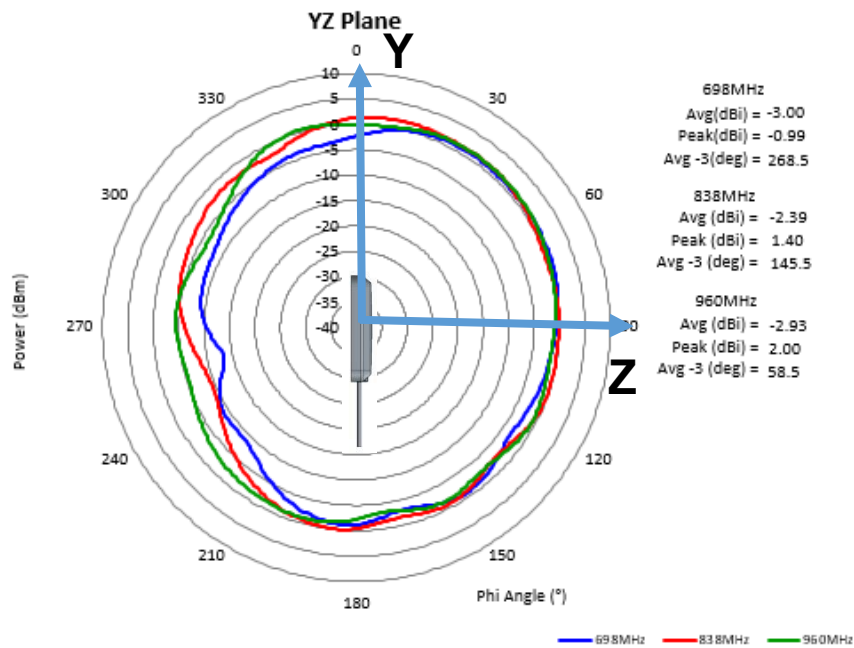
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Gain Plots LTE 2



Gain Plots LTE 2



Gain Plots LTE 2

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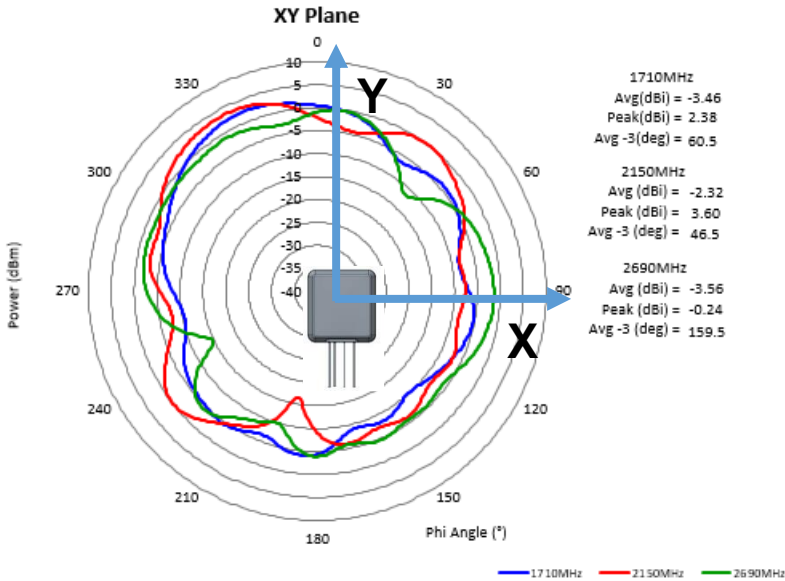
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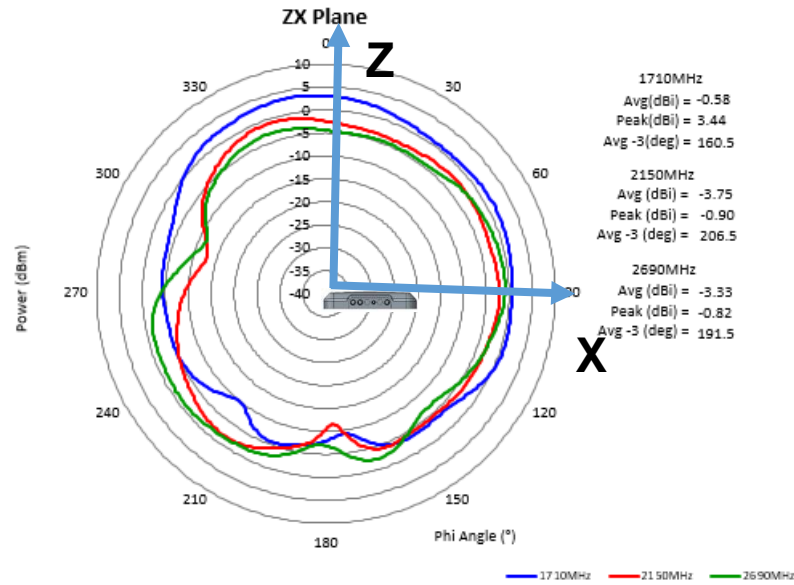
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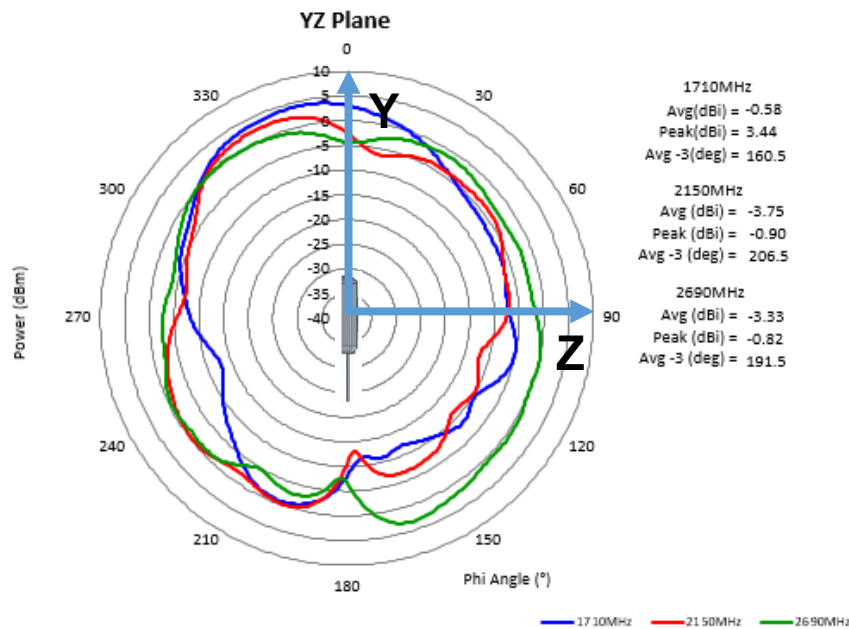
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Gain Plots LTE 2



Gain Plots LTE 2



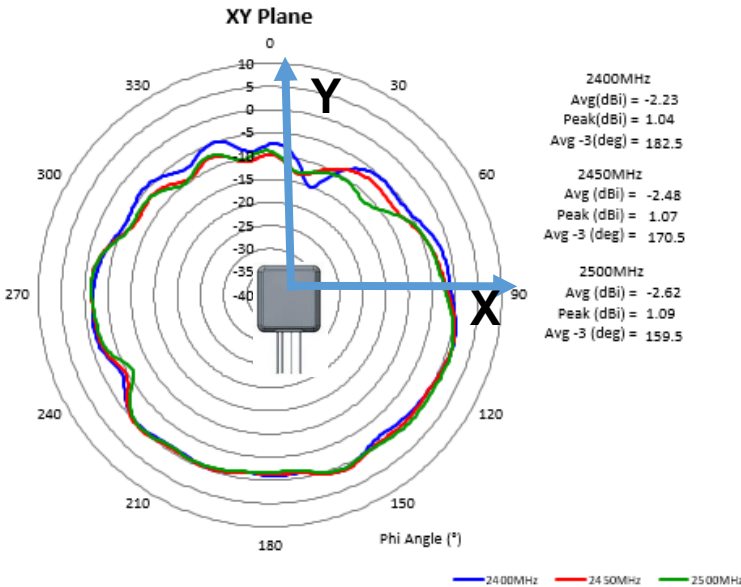
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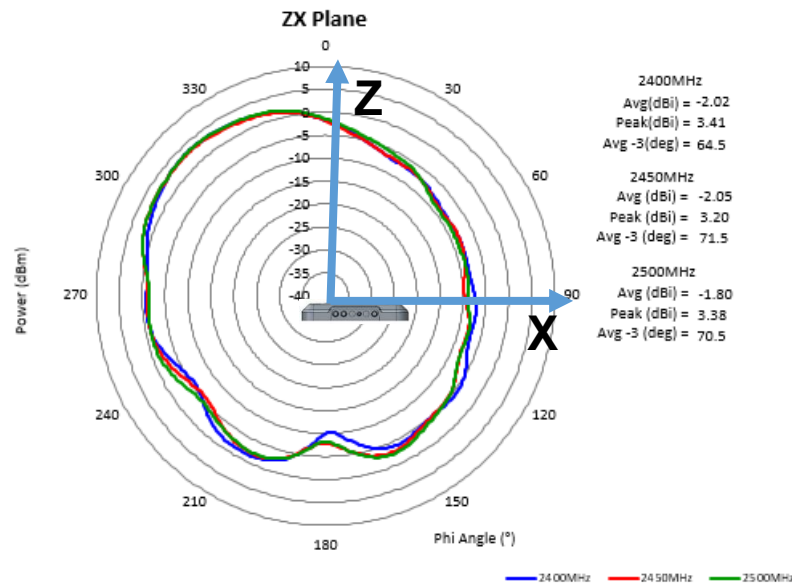
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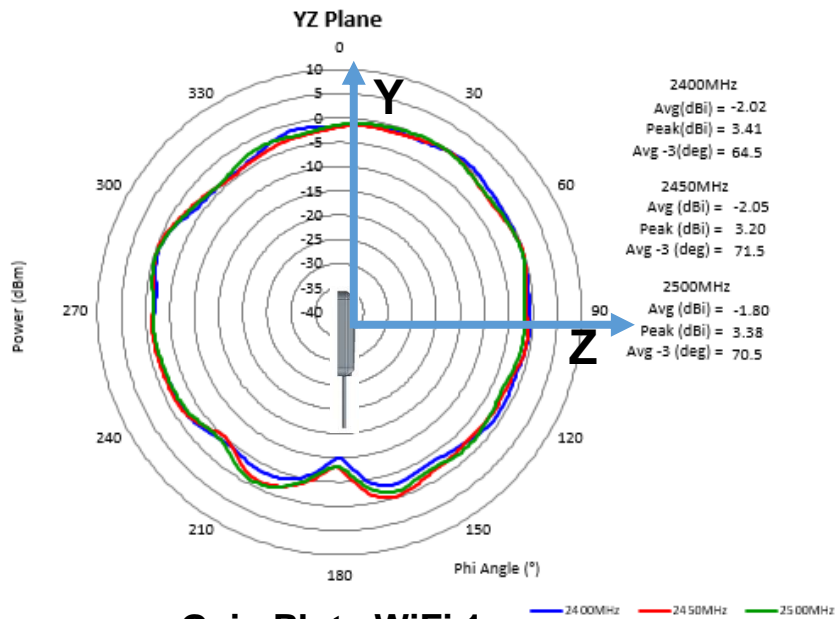
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Gain Plots WiFi 1



Gain Plots WiFi 1



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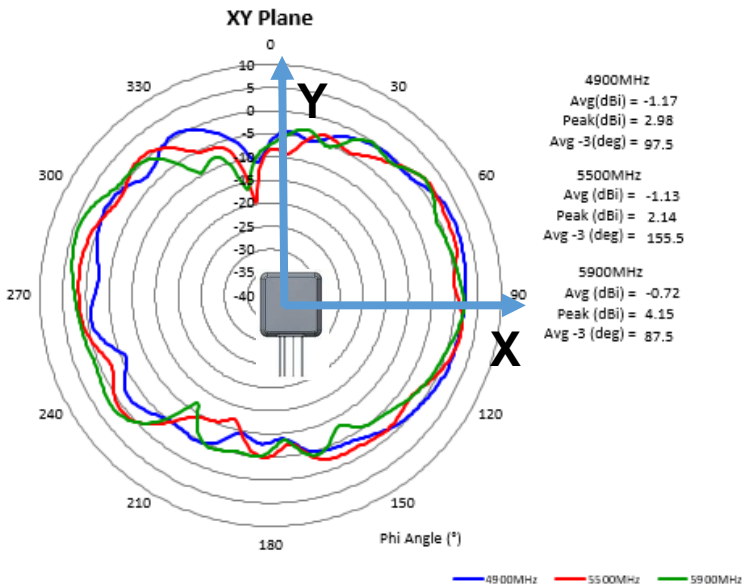
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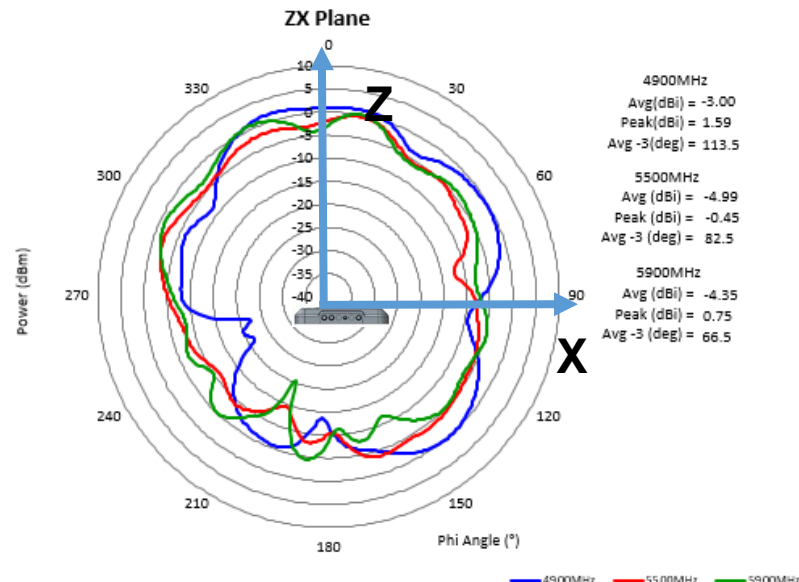
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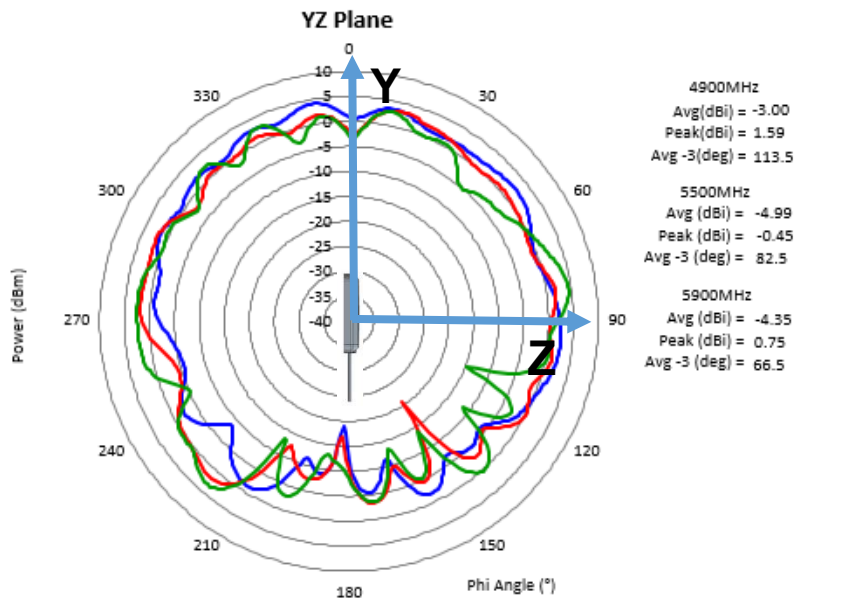
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Gain Plots WiFi 1



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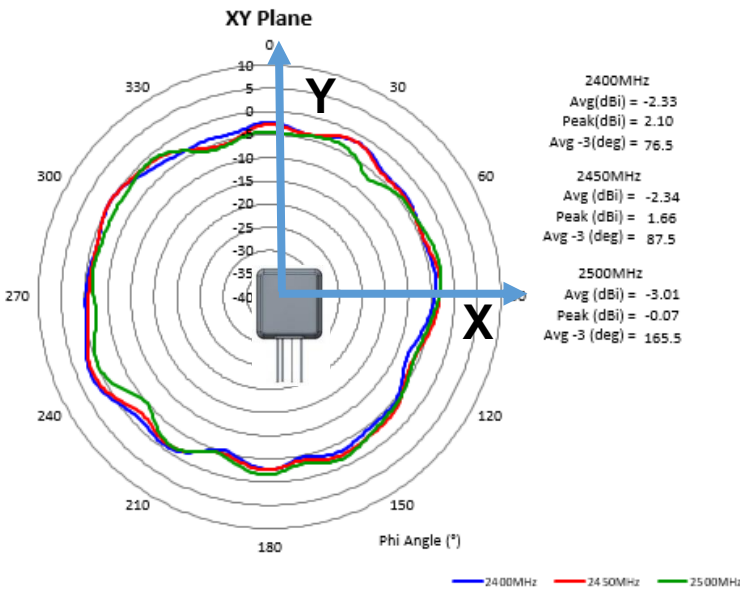
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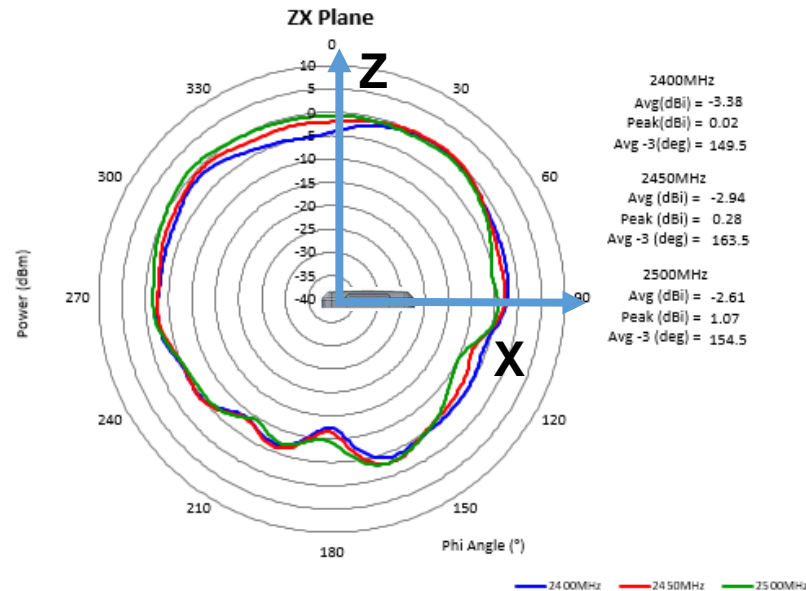
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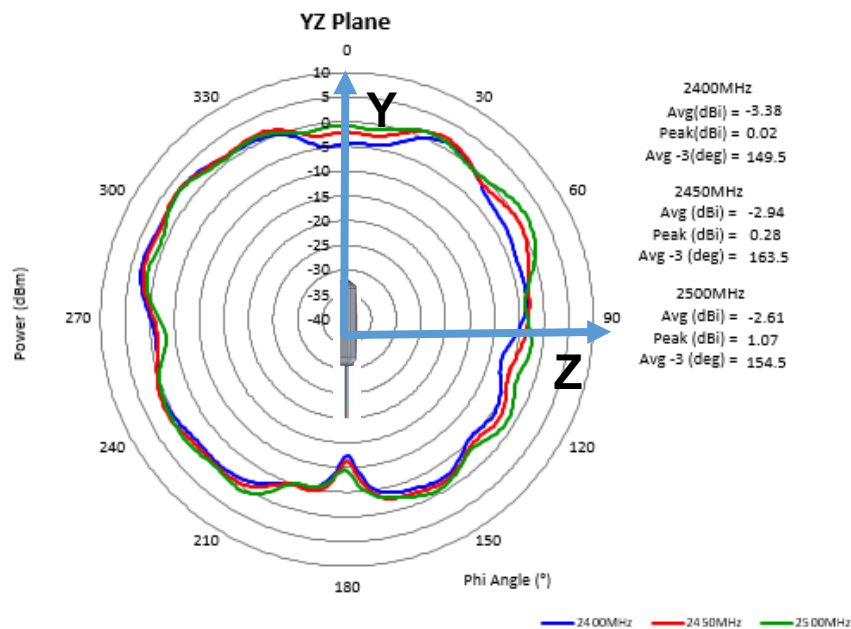
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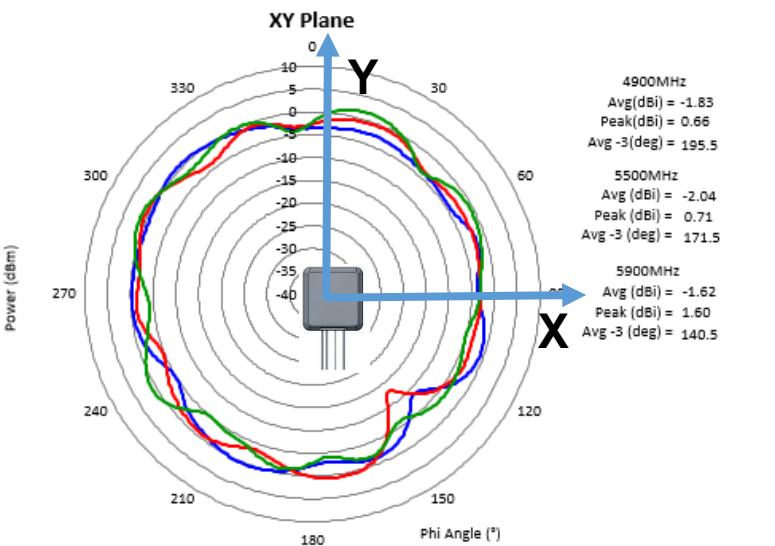
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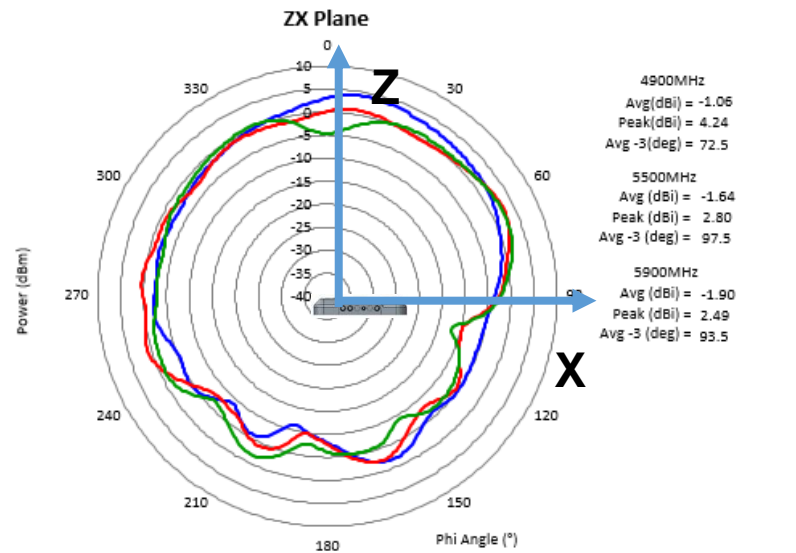
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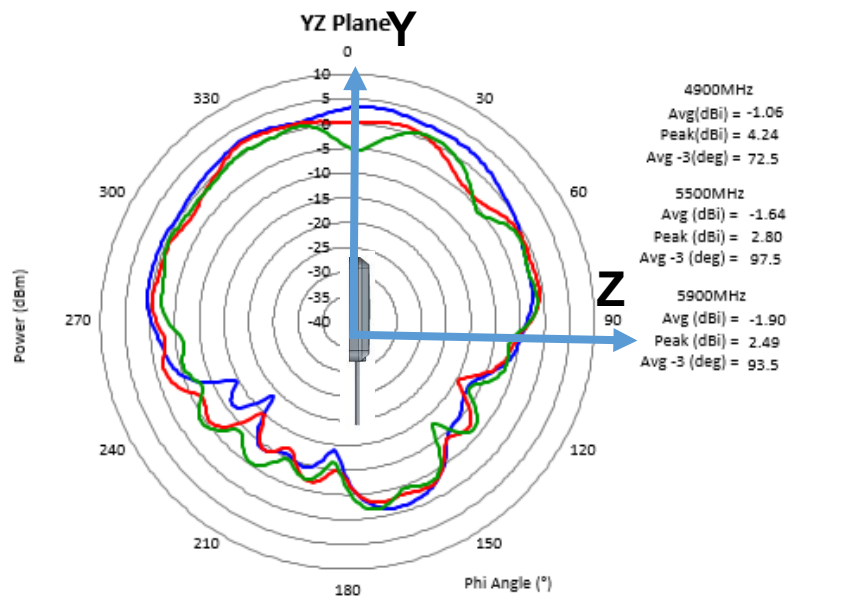
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Gain Plots WiFi 2



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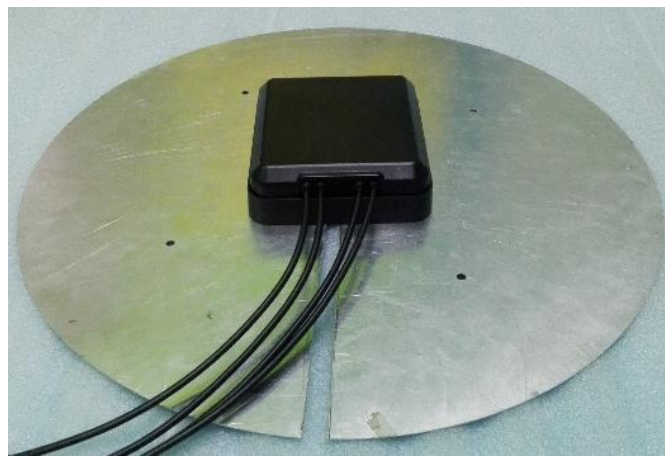
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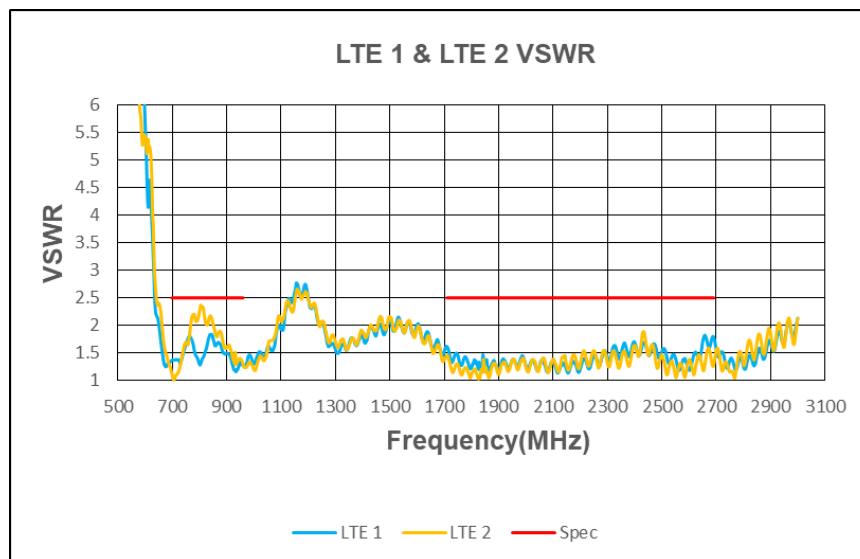
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Situation 2: Performance on 1 inch bracket with $\phi 500\text{mm}(19.7\text{inch})$ ground



LTE 1 & LTE 2 VSWR



Note : Measured on 500mm ground plane with 3m cable

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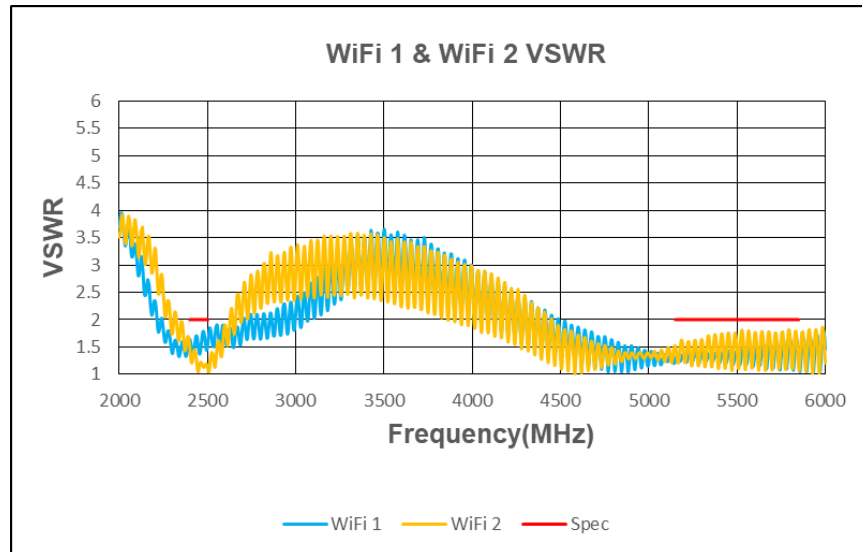
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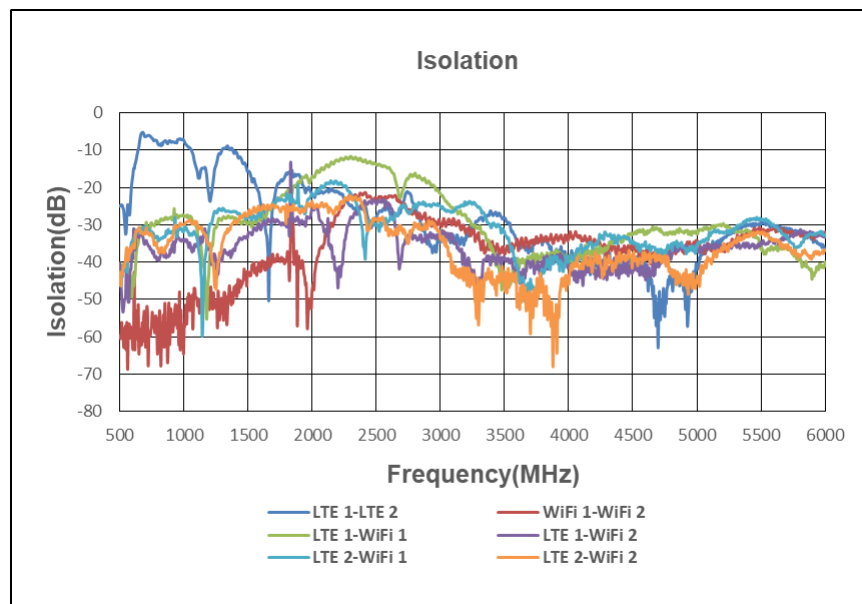
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WiFi 1& WiFi 2 VSWR



Isolation



Note : Measured on 500mm ground plane with 3m cable

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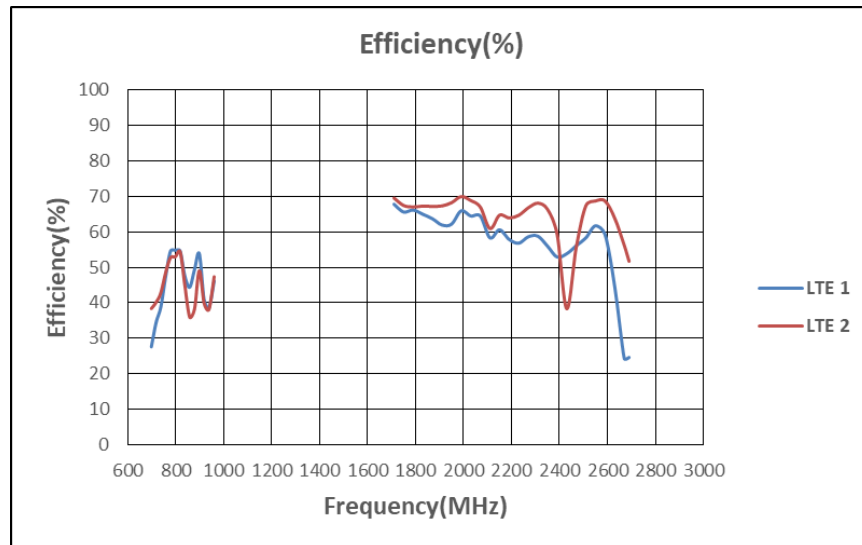
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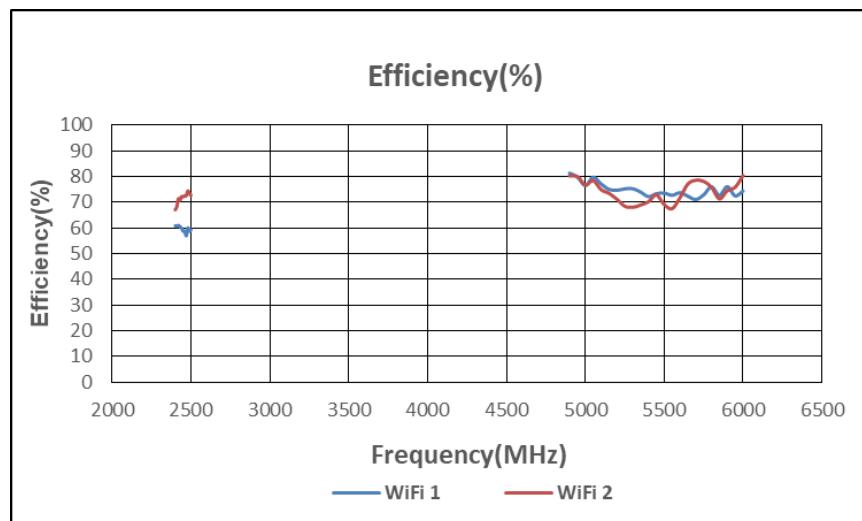
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CHARTS

LTE 1 and LTE2 Efficiency



WiFi 1 and WiFi 2 Efficiency



Note : Measured on 500mm ground plane with 322mm cable

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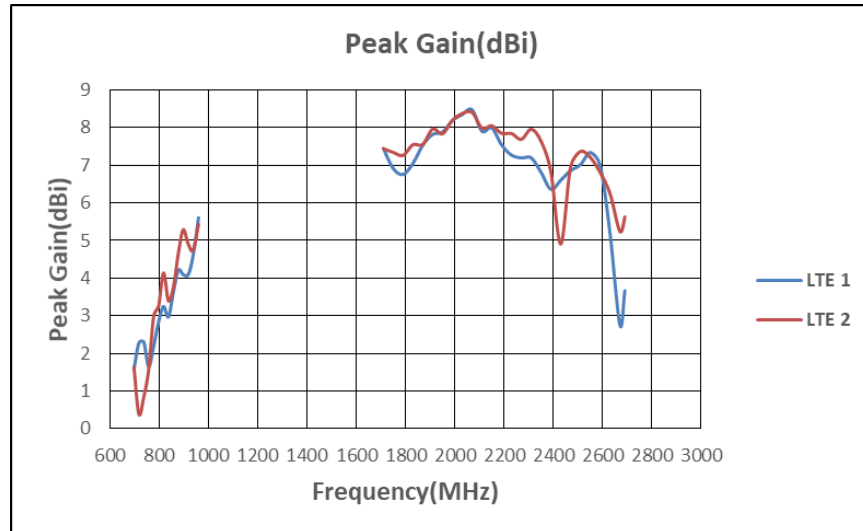
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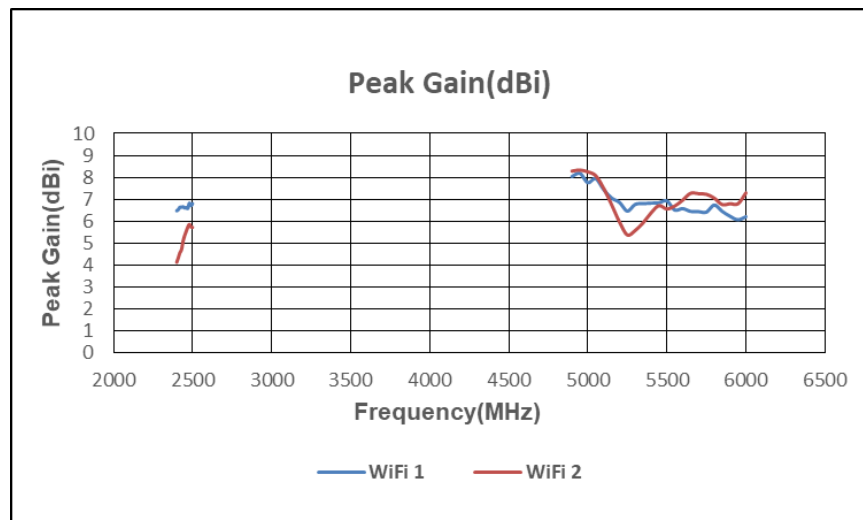
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CHARTS

LTE 1 and LTE2 Peak Gain



WiFi 1 and WiFi 2 Peak Gain



Note : Measured on 500mm ground plane with 322mm cable

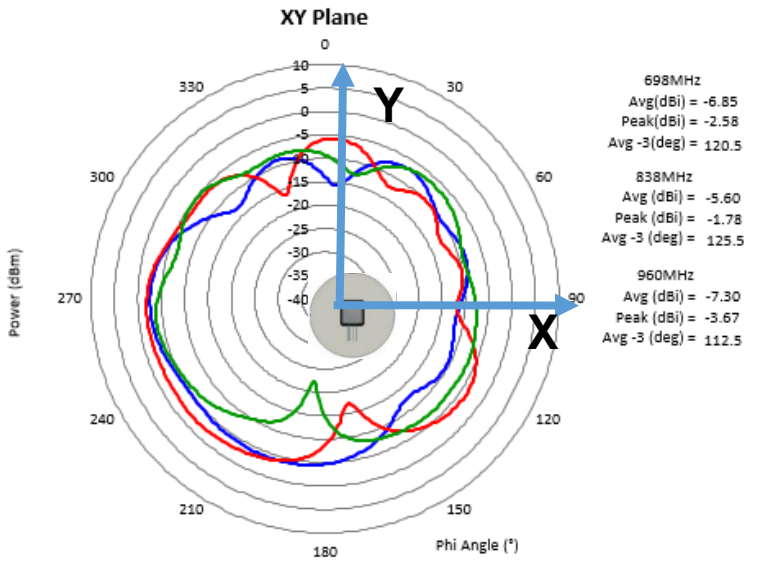
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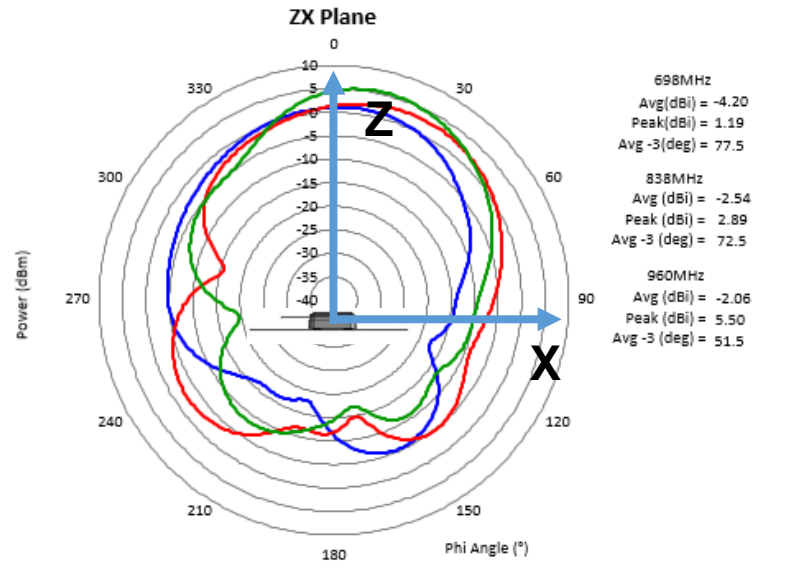
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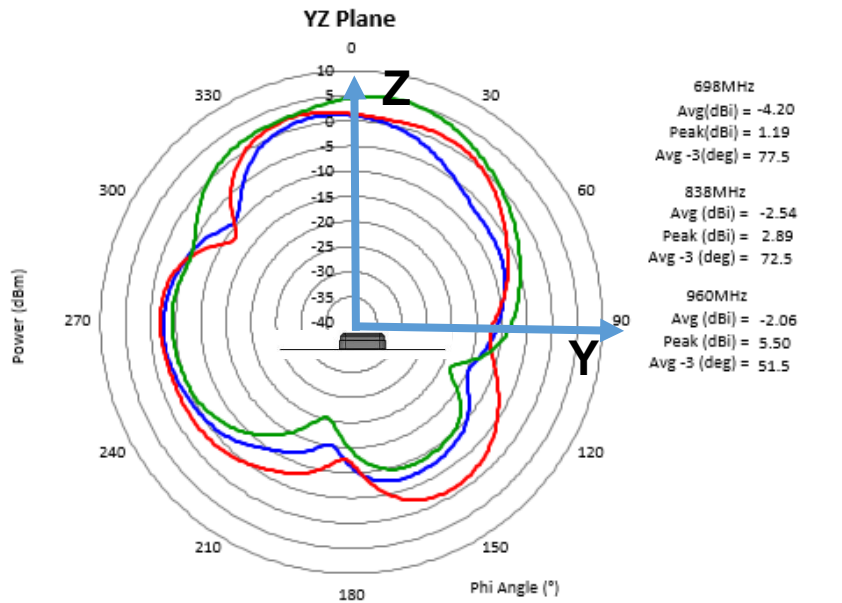
CHARTS



Gain Plots LTE 1



Gain Plots LTE 1



Gain Plots LTE 1

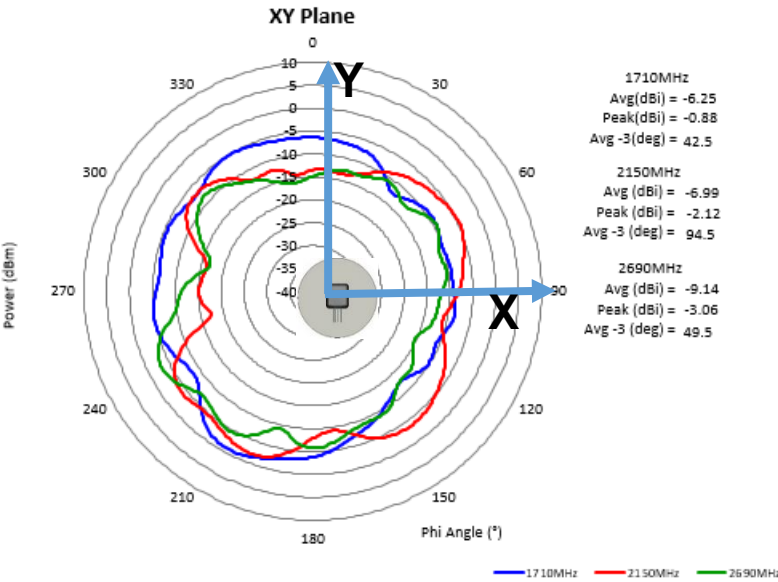
Issue: 1839

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

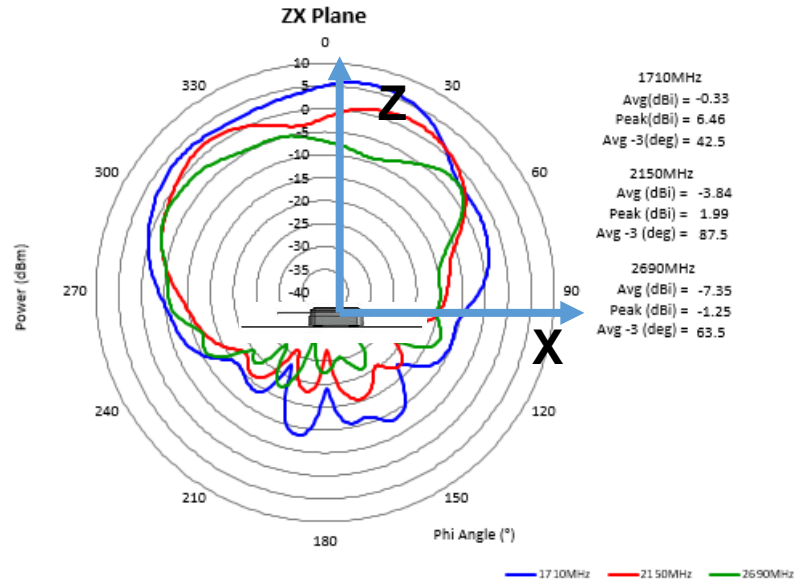
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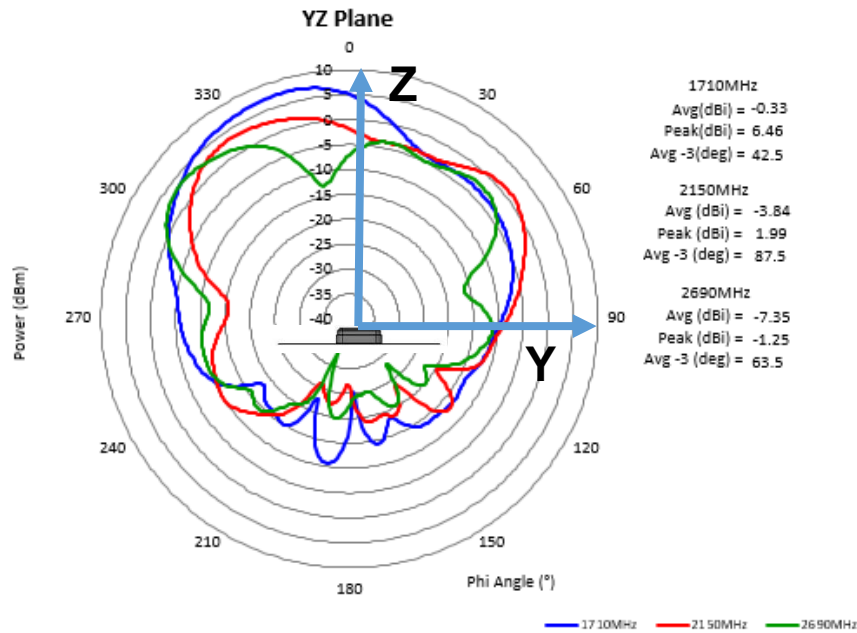
CHARTS



Gain Plots LTE 1



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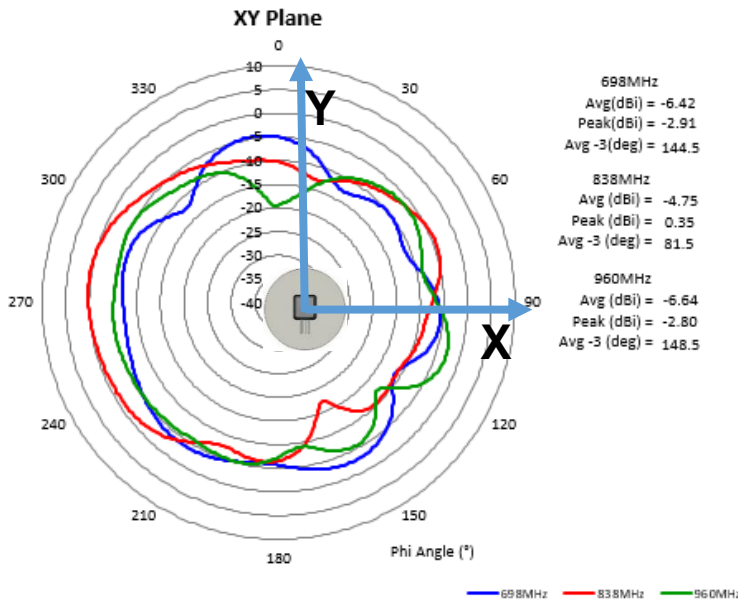
Gain Plots LTE 1

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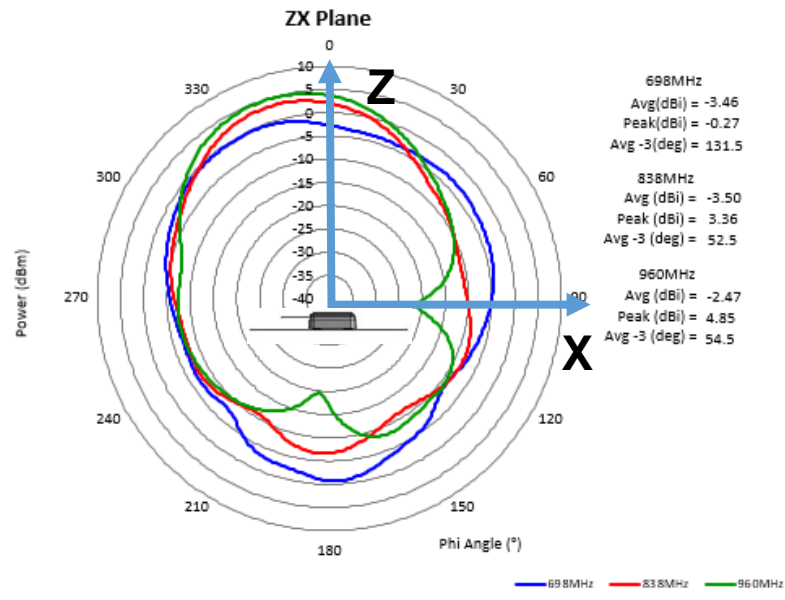
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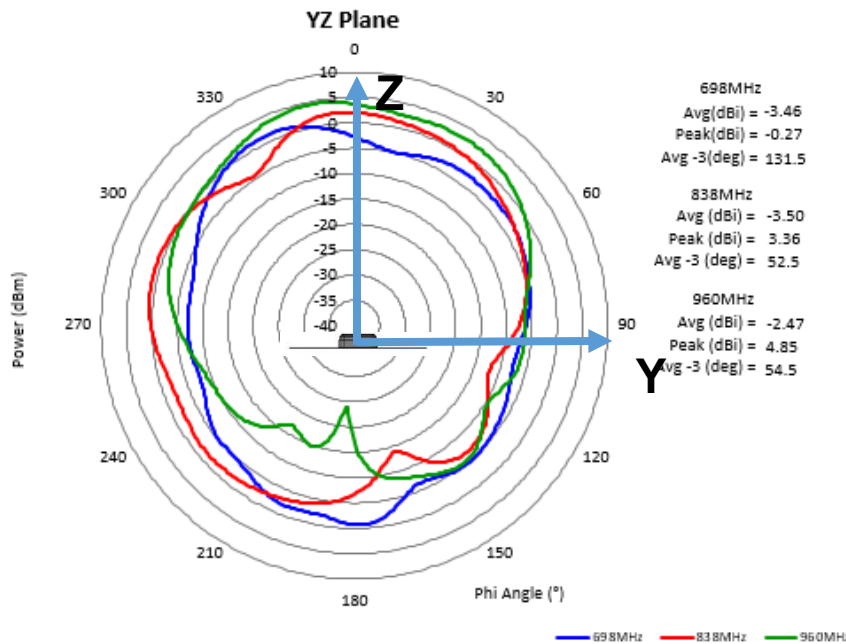
CHARTS



Gain Plots LTE 2



Gain Plots LTE 2



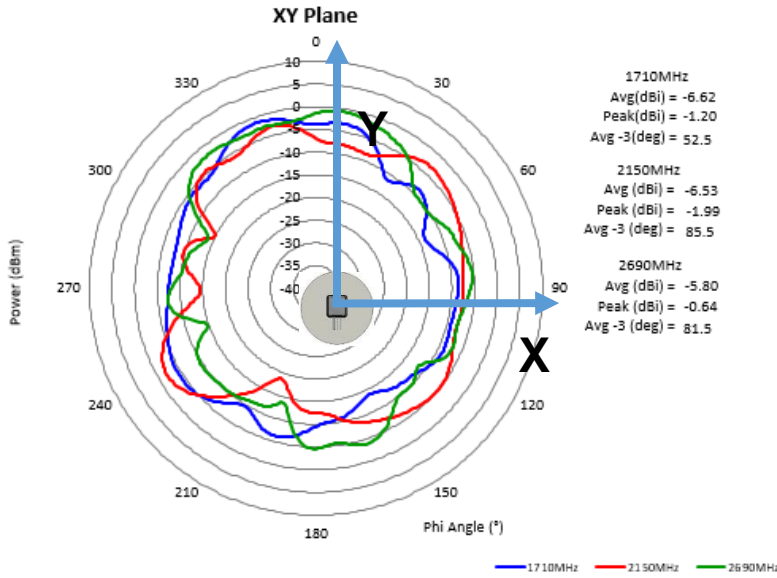
Gain Plots LTE 2

Issue: 1839

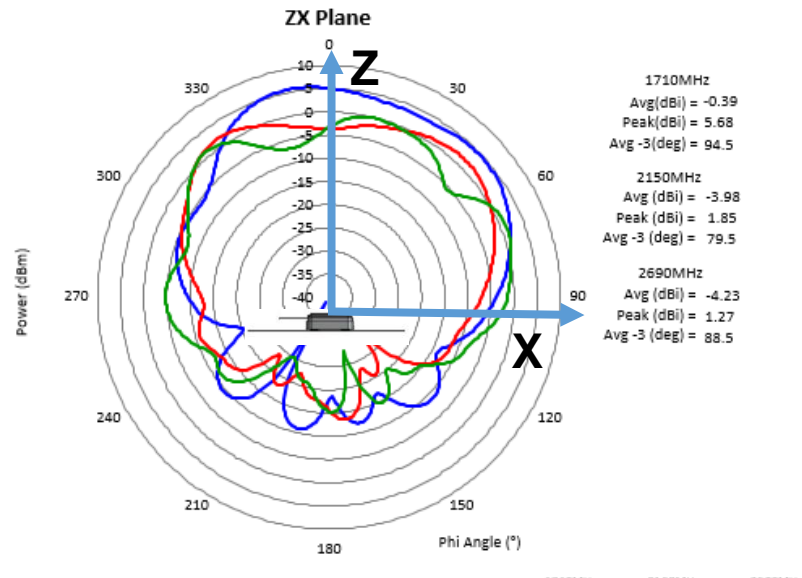
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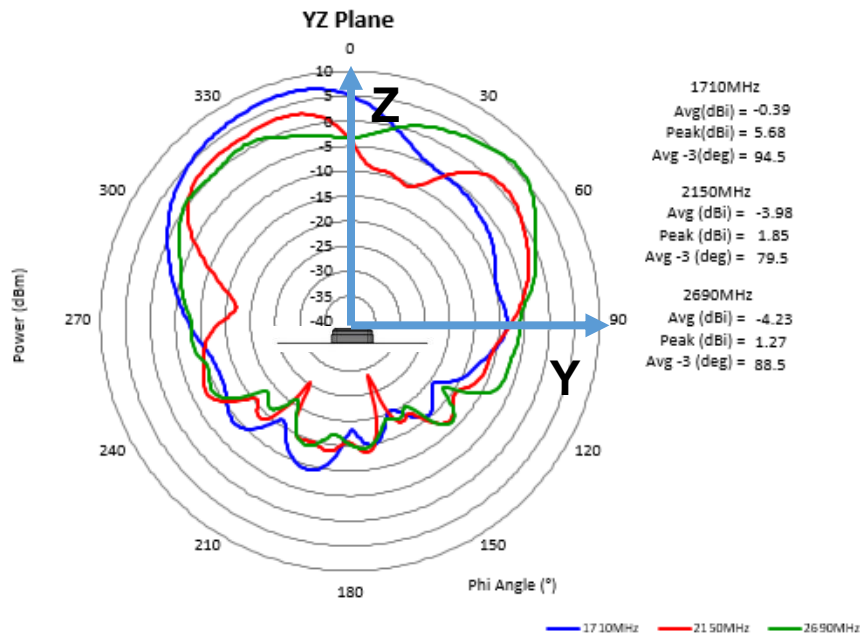
CHARTS



Gain Plots LTE 2



Gain Plots LTE 2



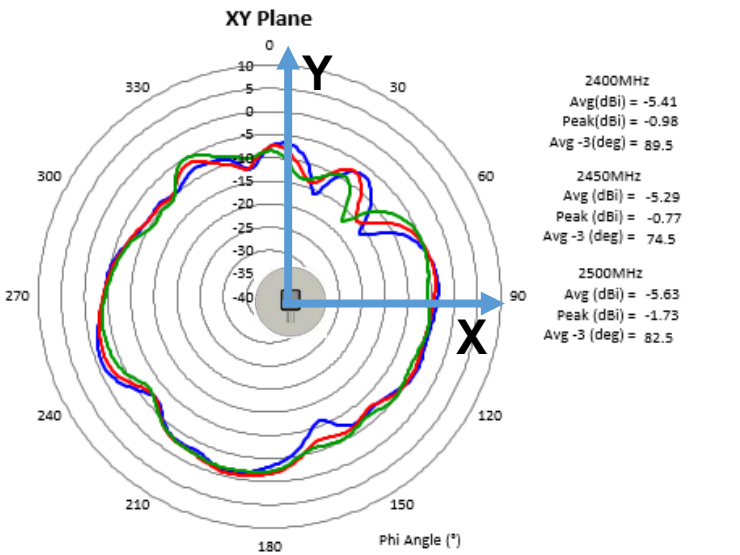
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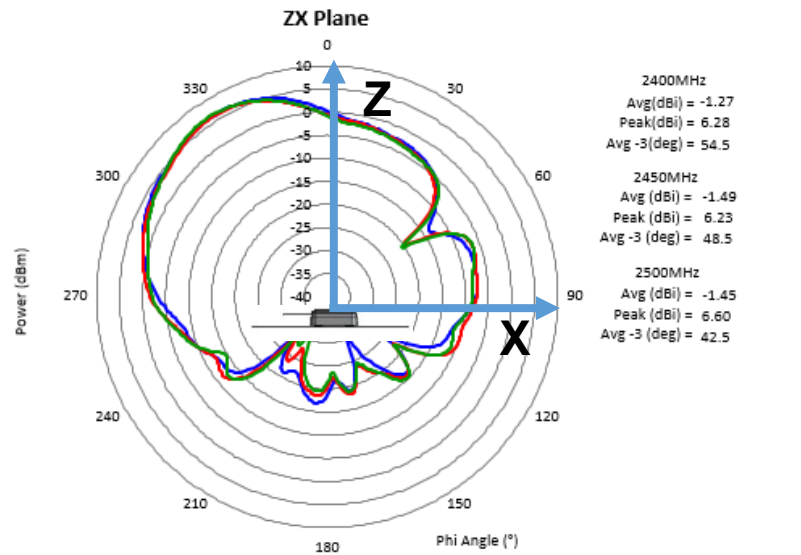
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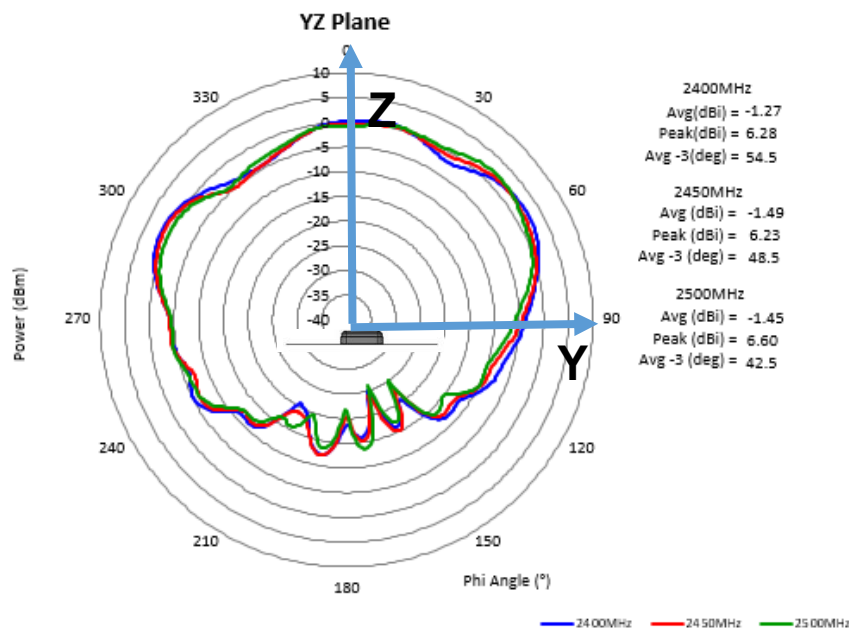
CHARTS



Gain Plots WiFi 1



Gain Plots WiFi 1



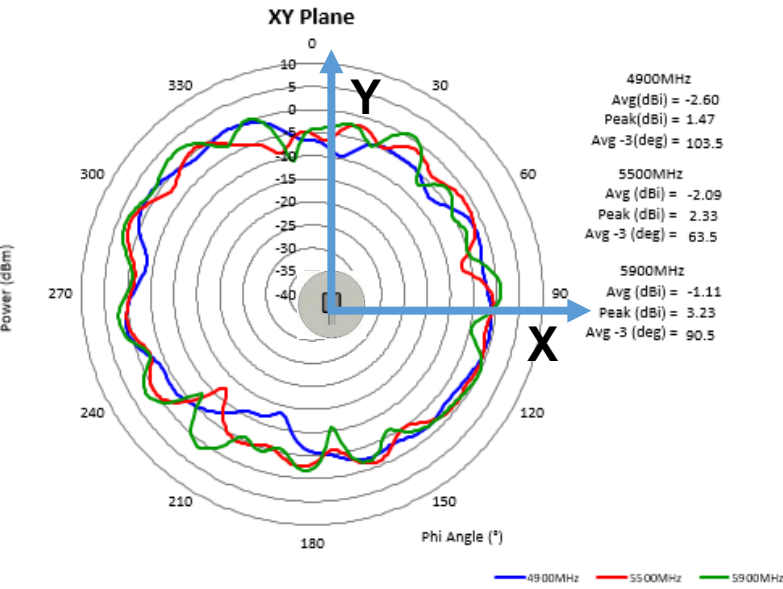
Gain Plots WiFi 1

Issue: 1839

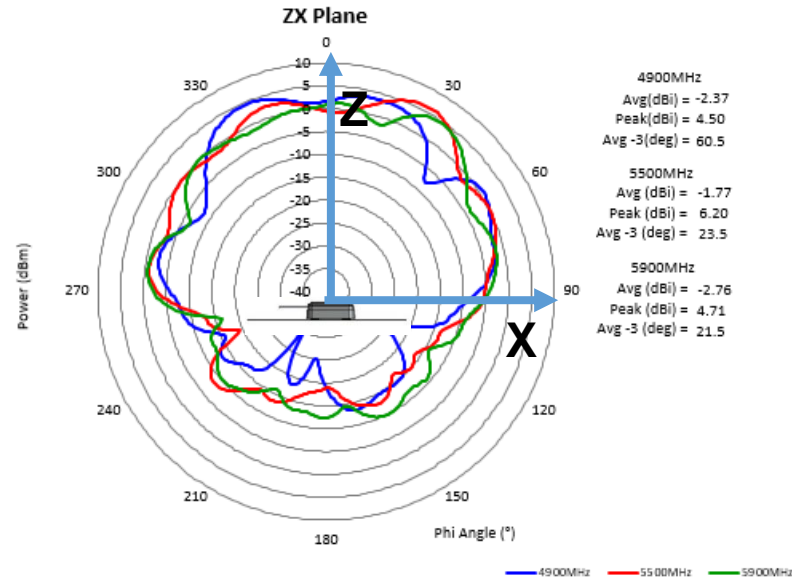
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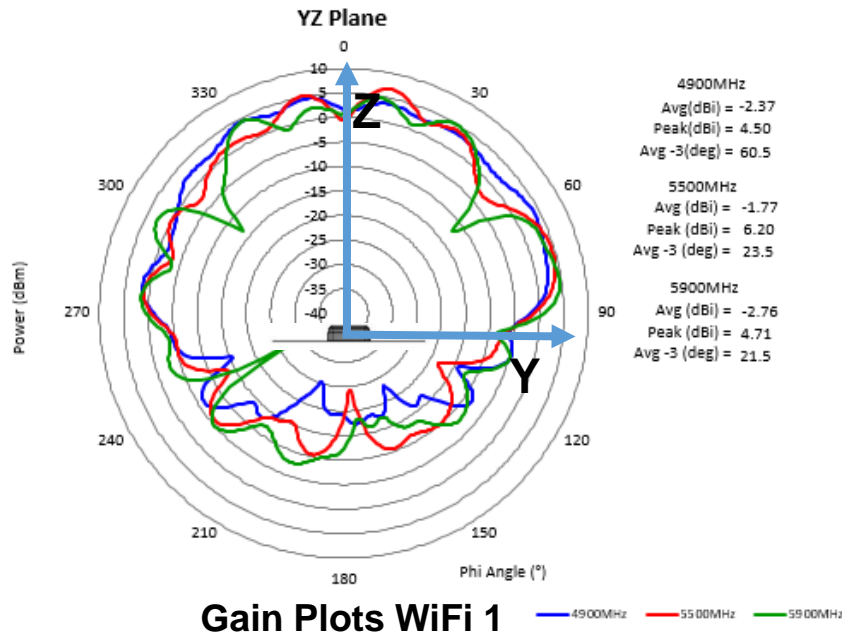
CHARTS



Gain Plots WiFi 1



Gain Plots WiFi 1



Gain Plots WiFi 1

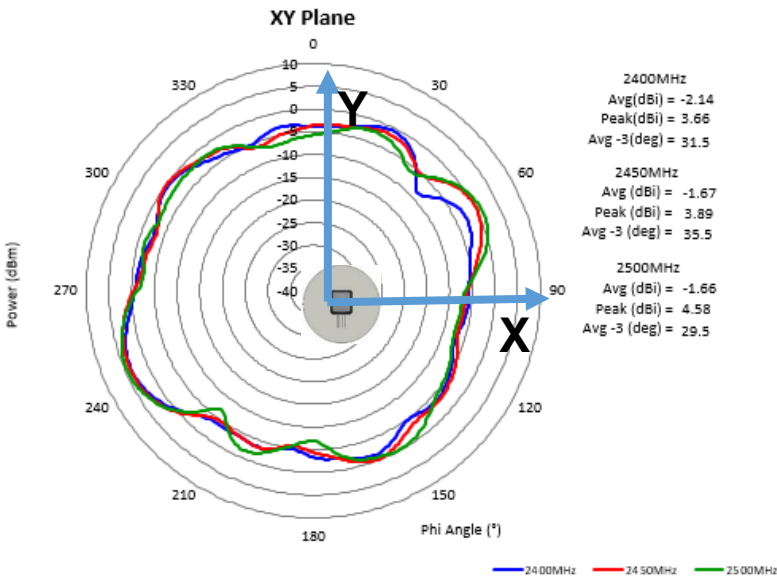
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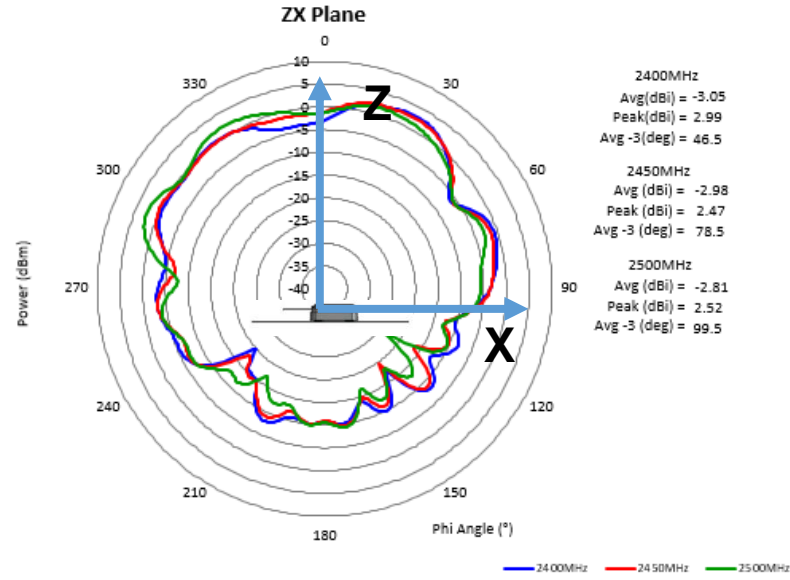
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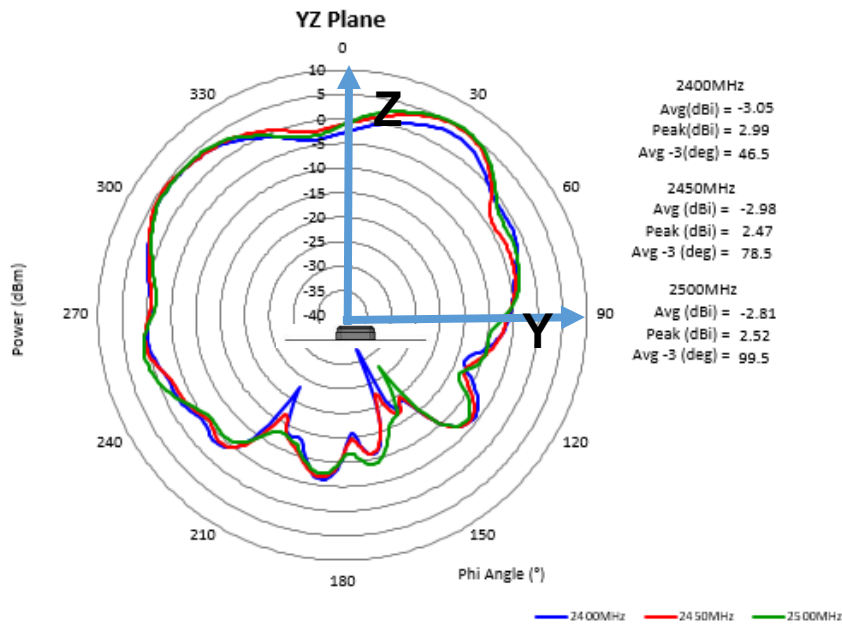
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Gain Plots WiFi 2



Gain Plots WiFi 2



Gain Plots WiFi 2

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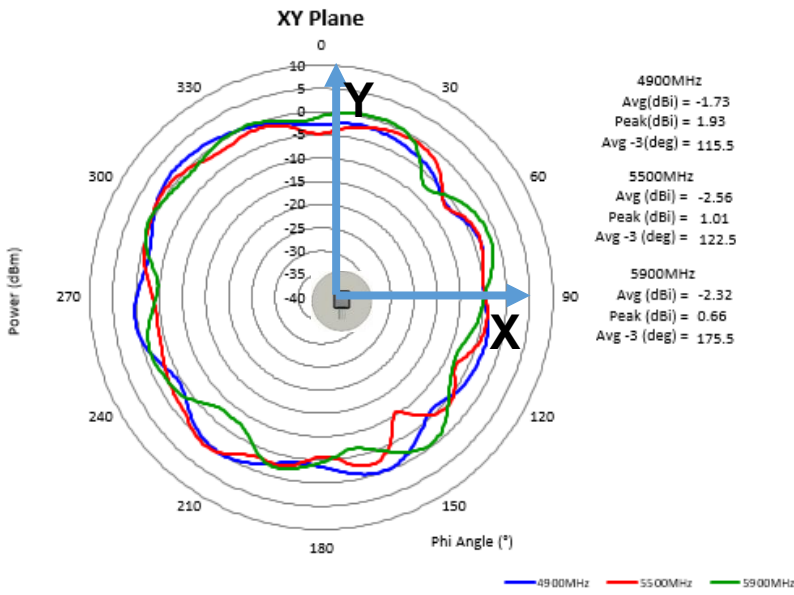
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Description: 2X LTE, 2XWiFi Vehicular Antenna

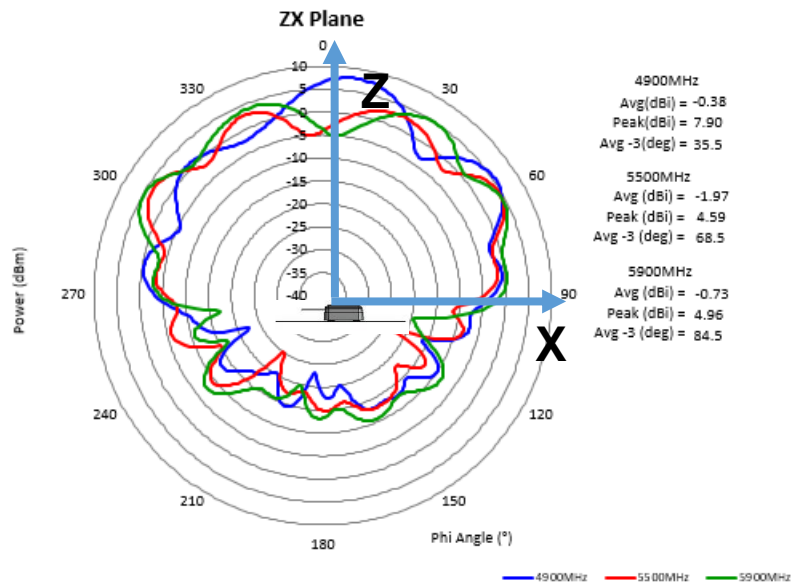
Series: Low Profile MB

PART NUMBER: LPMB401

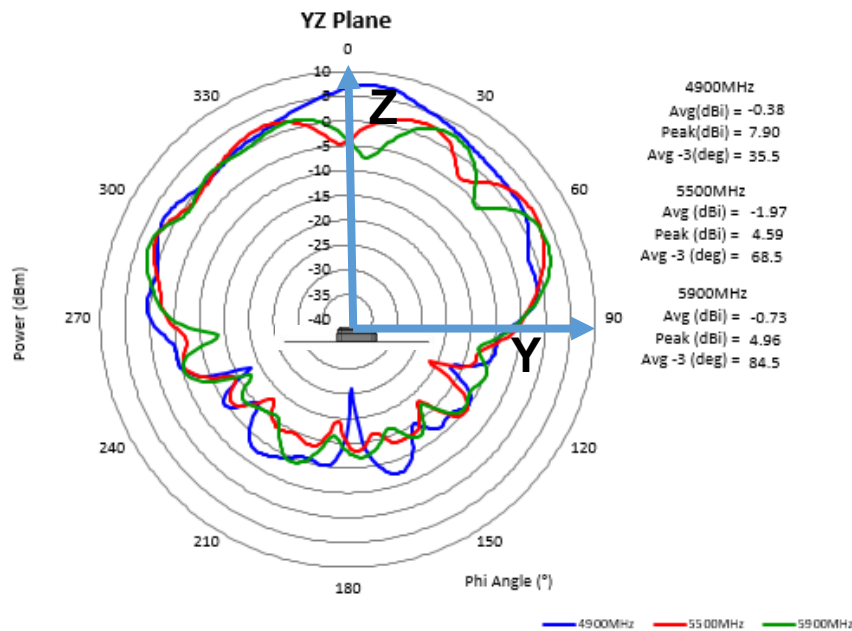
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Gain Plots WiFi 2



Gain Plots WiFi 2



Gain Plots WiFi 2

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Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

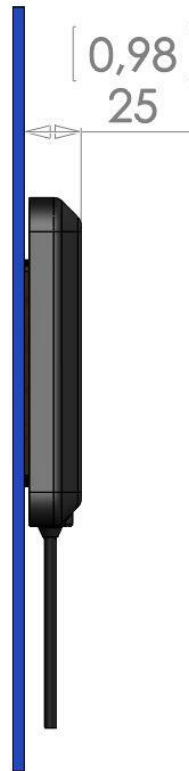
PART NUMBER: LPMB401

PACKAGING

- Each antenna packed in a plastic bag
- 18 bags(TBD) of antennas packed in a cardboard box.
- 1 label on each box with qty, part number, date code.

ASSEMBLY

Option 1, Apply to the surface of the glass fiber or plastic material, the antenna could be adhered on the surface directly.



Description: 2X LTE, 2XWiFi Vehicular Antenna

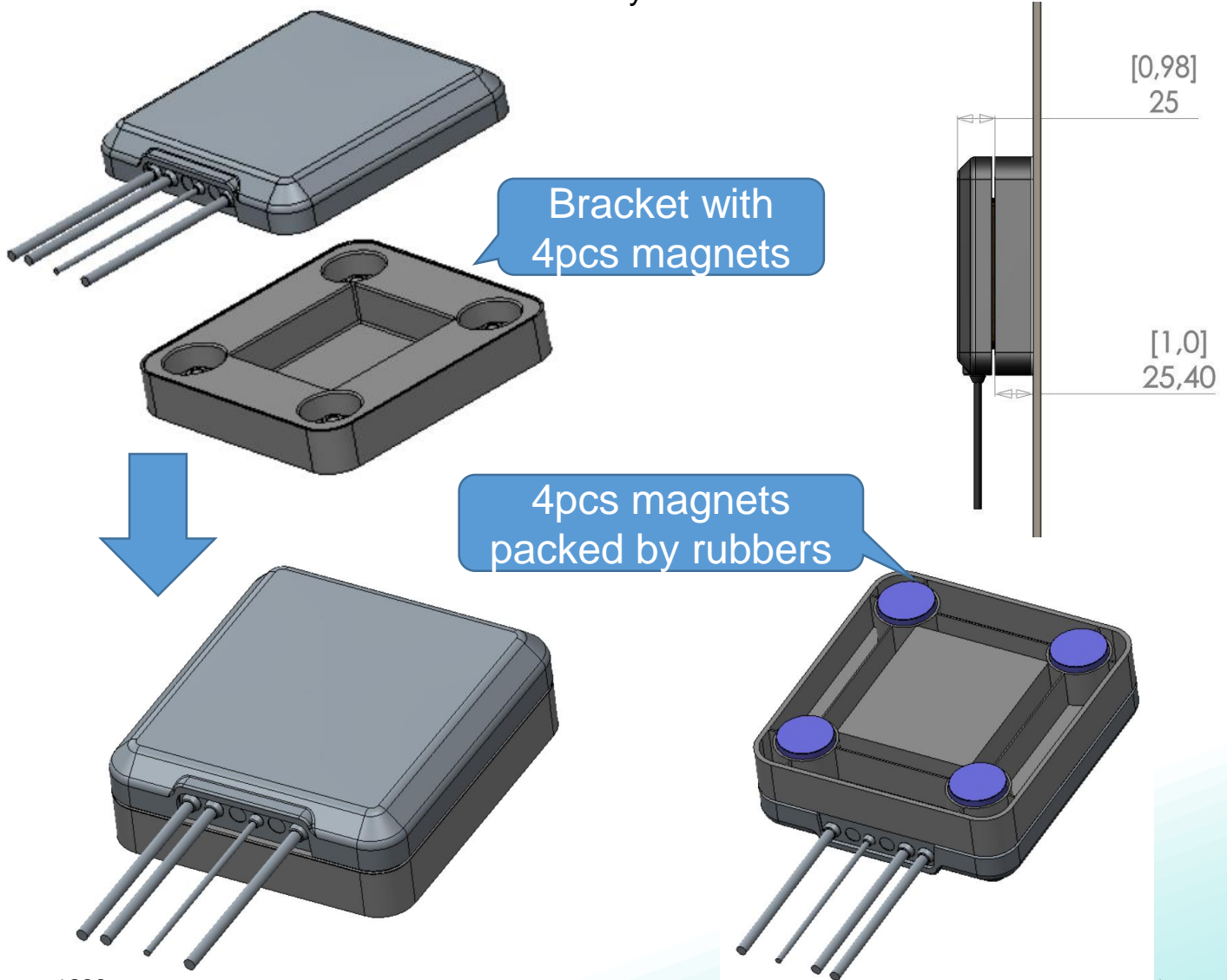
Series: Low Profile MB

PART NUMBER: LPMB401

ASSEMBLY

Option 2, Apply to the surface of the Iron metals like normal steel/iron, a bracket(GPSLPMM) is needed to elevate the antenna 1" for the optimum RF performance

Firstly, The antenna adhered on a magnetic bracket by the adhesive tape, then the whole assemble could "stick" on the magnetic metals by magnets, and also could be removed from the metals easily.



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Description: 2X LTE, 2XWiFi Vehicular Antenna

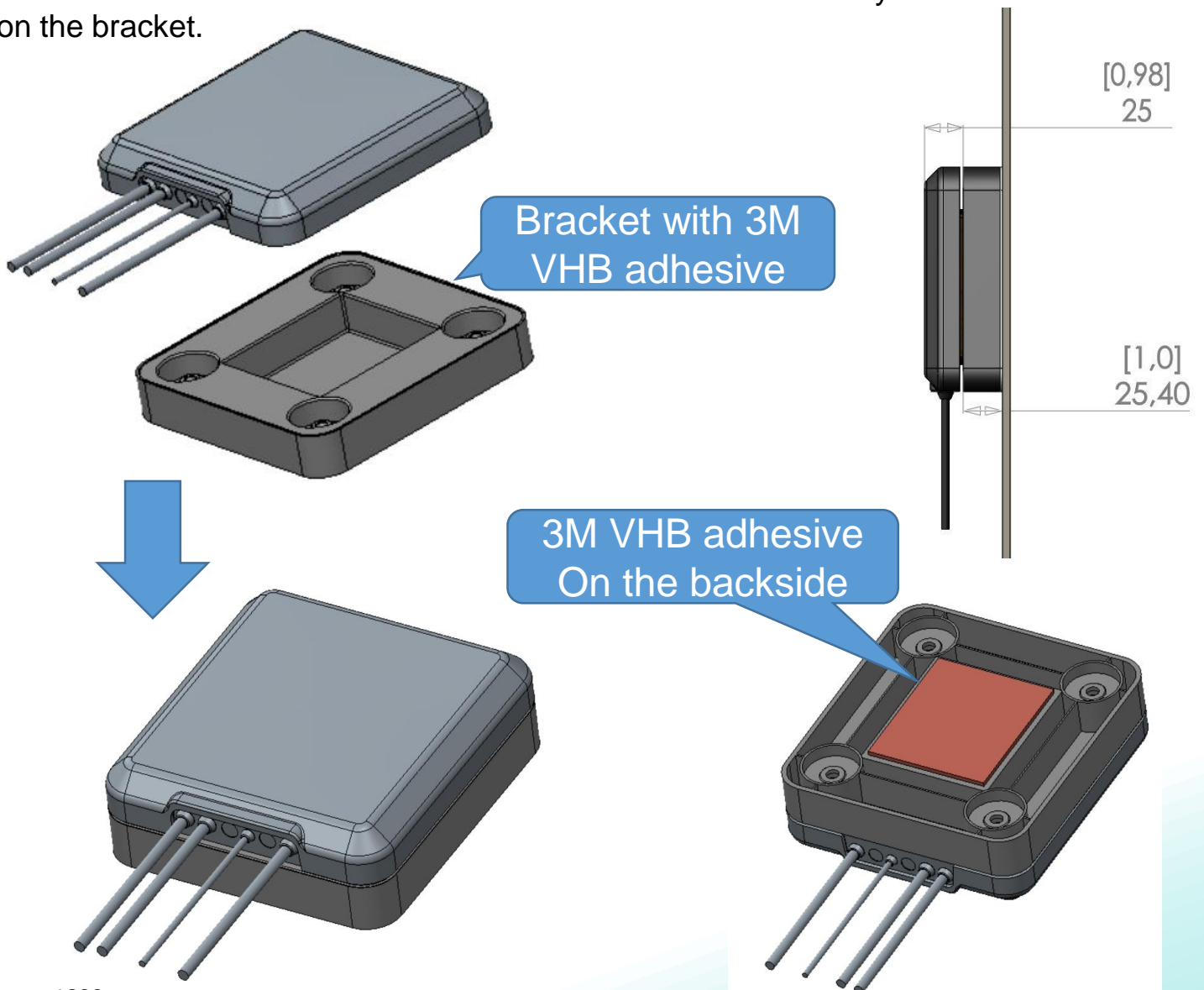
Series: Low Profile MB

PART NUMBER: LPMB401

ASSEMBLY

Option 3, Apply to the surface of the non-iron metals like aluminum, a bracket(GPSLPAM) is needed to elevate the antenna 1" for the optimum RF performance

Firstly, the antenna adhered on a bracket by the adhesive tape, then the whole assemble could adhere on the aluminum by the 3MVHB adhesive tape on the bracket.



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