Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

PART NUMBER: LPMB40X

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

Issue: 1922

RoHS COMPLIANT

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For more information:

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Pulse GmbH & Do, KG
Zeppelinstrasse 15
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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: LPMB40X

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 P/N	Antenna Color / Material	Weight	Cable and Connector type		Cable length	Mounting System
LPMB401	SABIC PC943, Black	607g	LTE-1	LMR195* SMA Male	3Meters / 118.11Inchs	Adhesive Tape 3mmThick 3M VHB 4959
			LTE-2	LMR195* SMA Male		
			WiFi-1	LMR195* RP-SMA Male		
			WiFi-2	LMR195* RP-SMA Male		
LPMB405		492g	LTE-1	LMR195* SMA Male	2Meters / 78.74Inchs	
			LTE-2	LMR195* SMA Male		
			WiFi-1	LMR195* RP-SMA Male		
			WiFi-2	LMR195* RP-SMA Male		

* Or Equivalent

ENVIRONMENTAL SPECIFICATIONS

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

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Description: 2X LTE, 2XWiFi Vehicular Antenna

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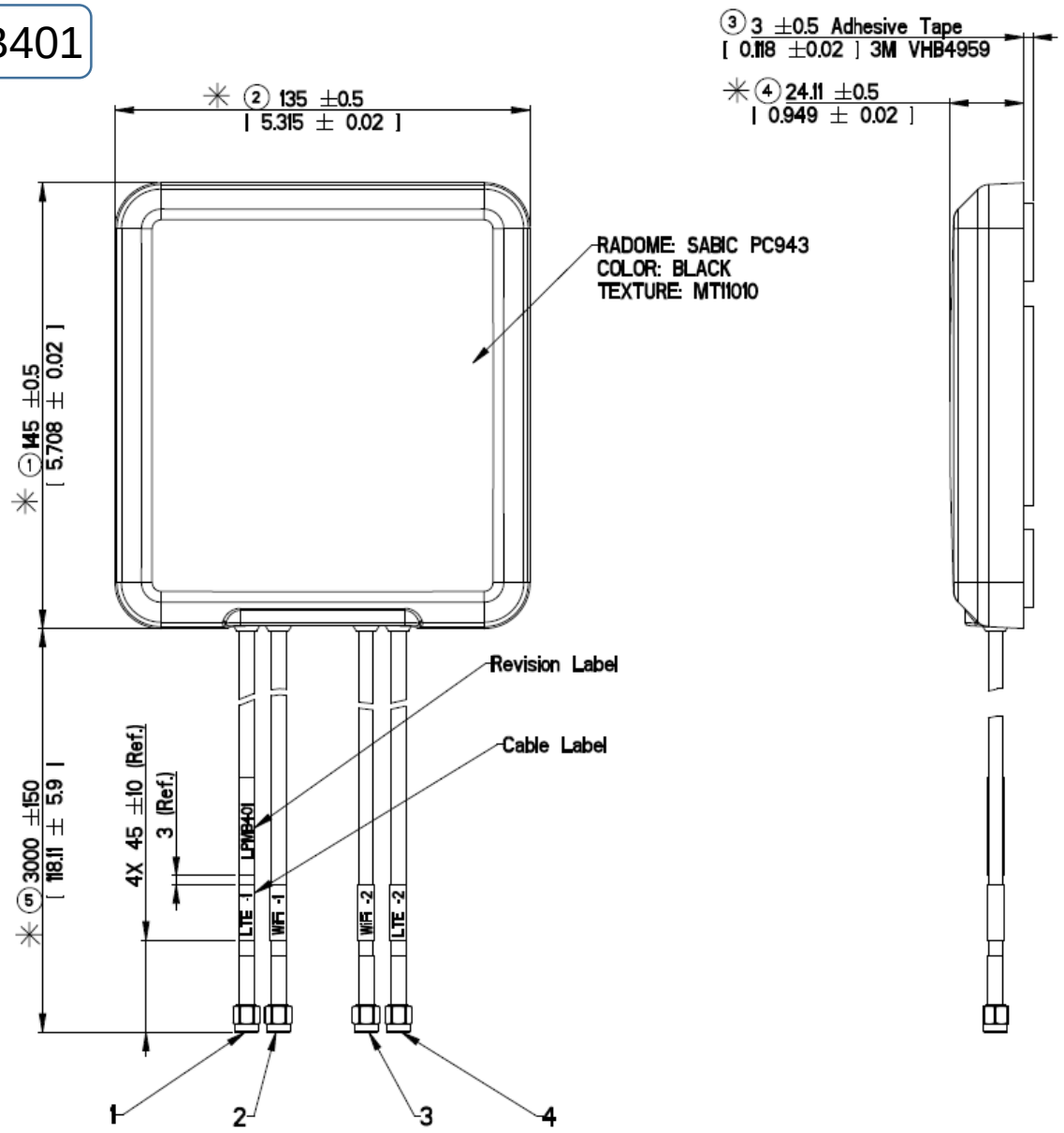
PART NUMBER: LPMB40X

MECHANICAL DRAWING

LPMB401



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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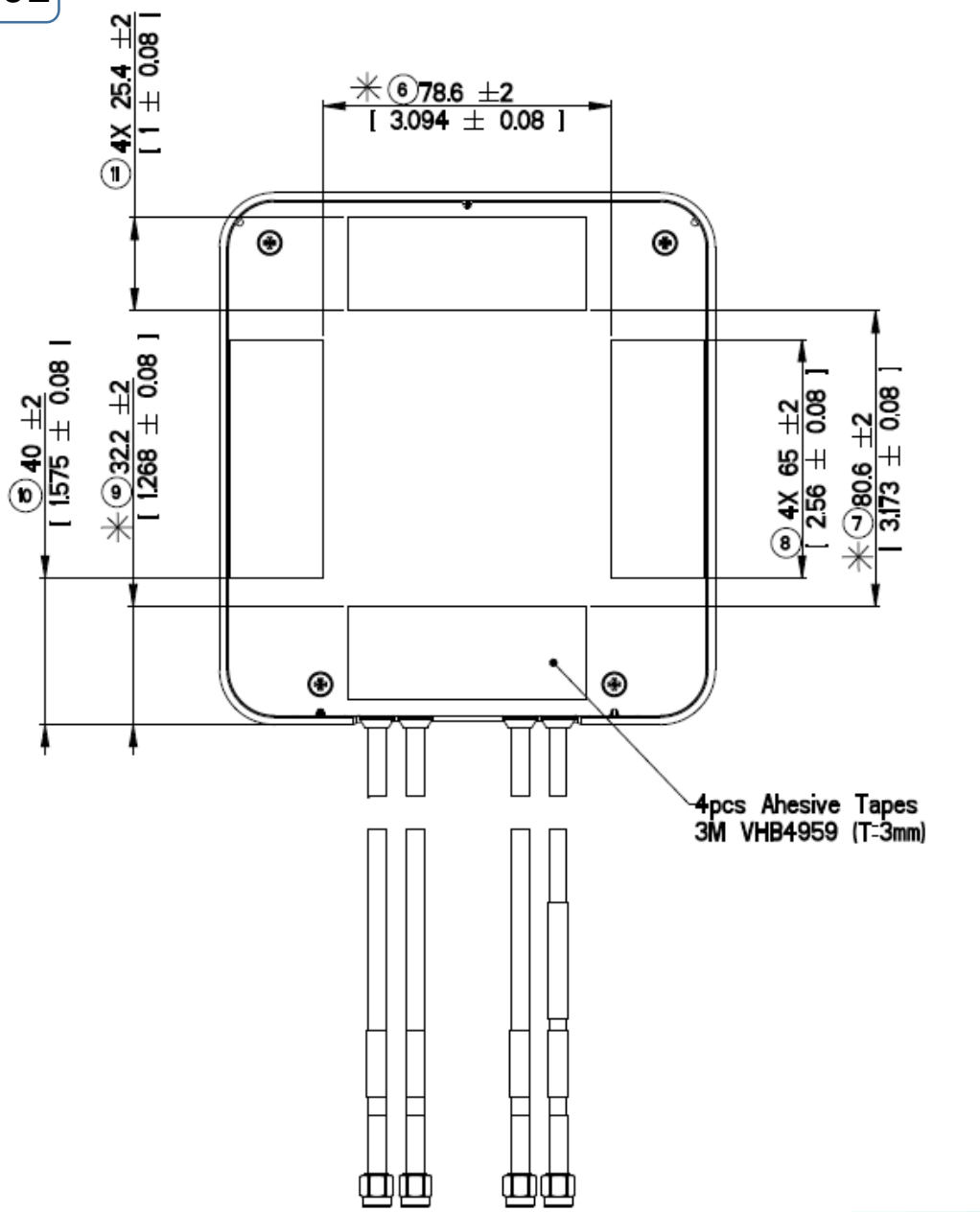
LPMB401



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Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

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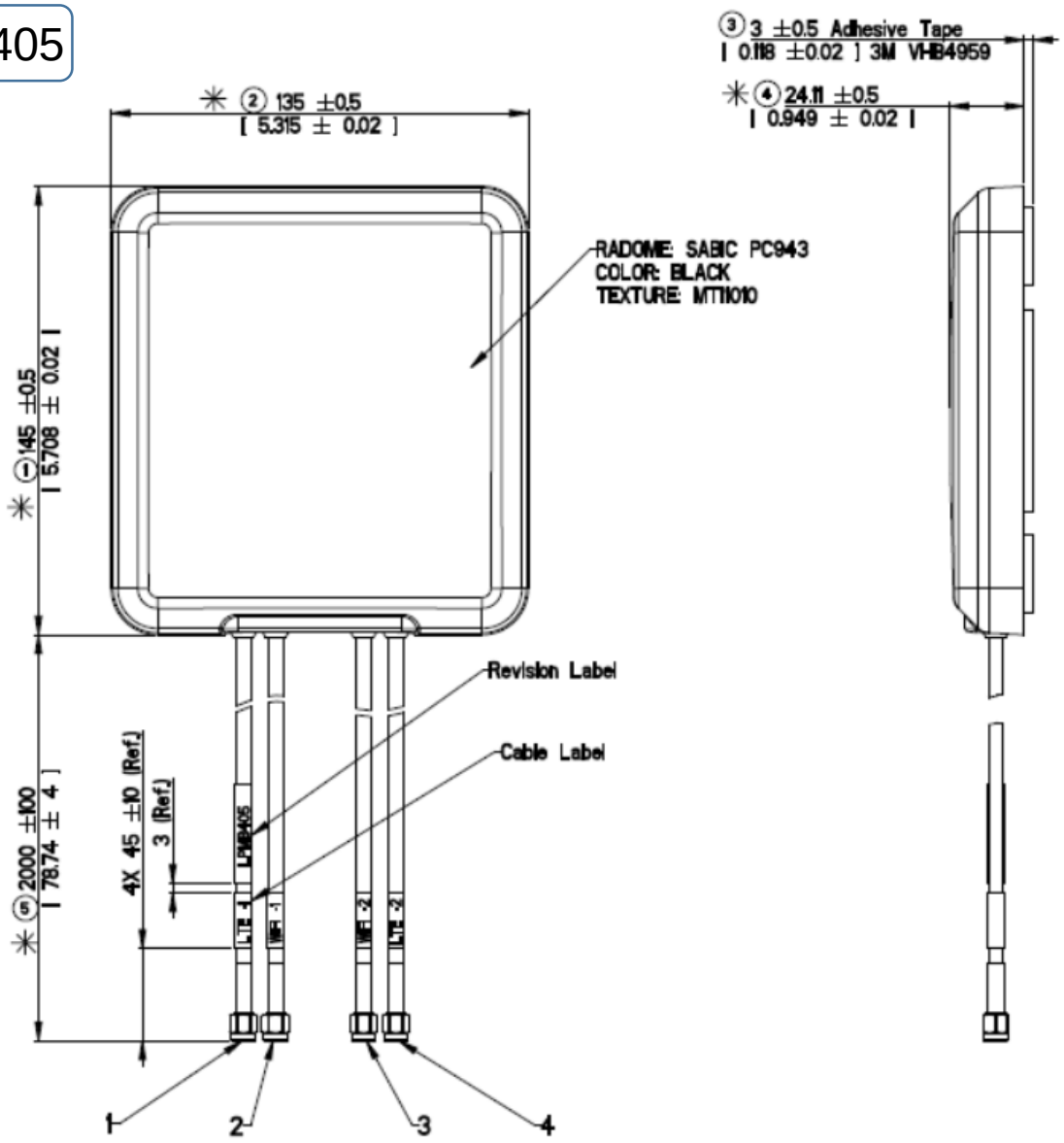
MECHANICAL DRAWING

LPMB405



LPMB405	P.N.	CABLE	CABLE LENGTH	CONNECTOR
1. LTE-1 Cable Assy	125-00436.001	LMR-195*	2 Meters [78.74"]	SMA Male
2. WiFi-1 Cable Assy	125-00438.001			RP-SMA Male
3. WiFi-2 Cable Assy	125-00439.001			RP-SMA Male
4. LTE-2 Cable Assy	125-00437.001			SMA Male

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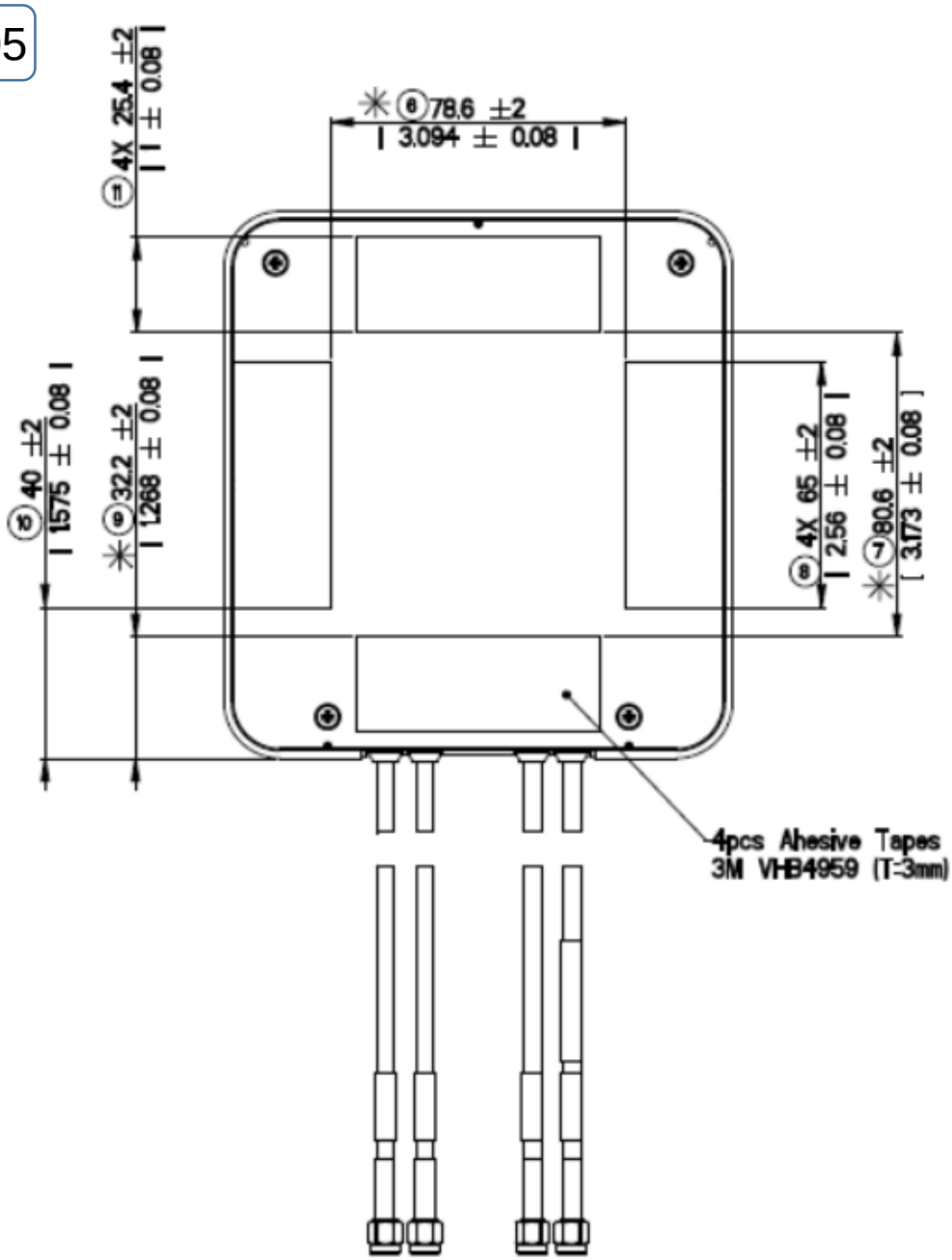
Series: Low Profile MB

PART NUMBER: LPMB40X

MECHANICAL DRAWING

LPMB405



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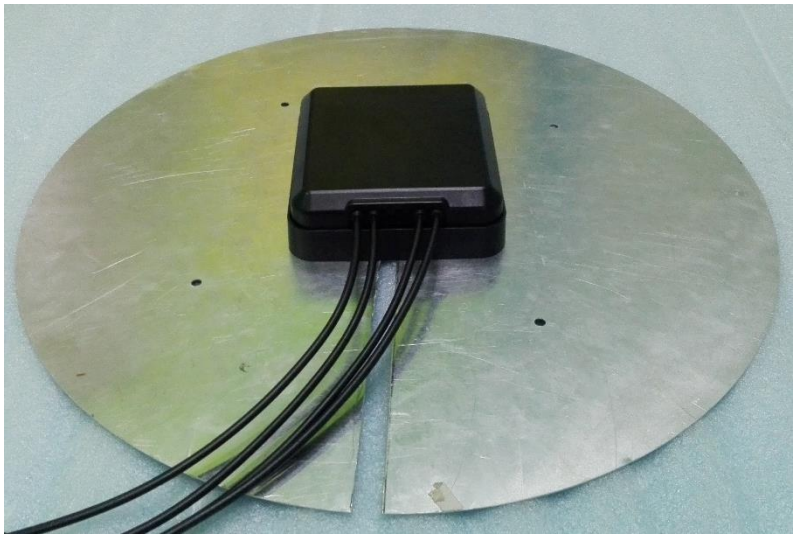
TEST SETUP

Below performance test in two situation
Situation 1 . Test in free space .
Situation 2. Test on 1 inch bracket with ϕ500mm (19.7inch) ground.

Situation 1

Free space

Situation 2



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

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Description: 2X LTE, 2XWiFi Vehicular Antenna

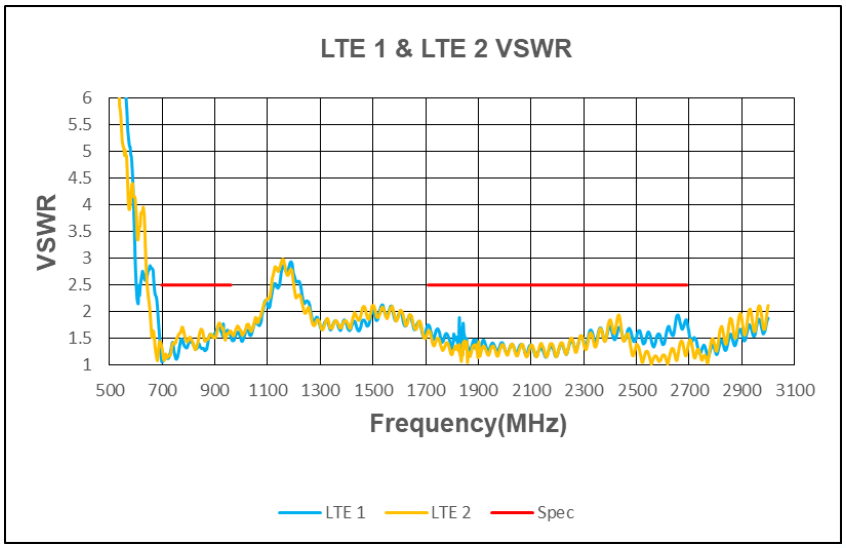
Series: Low Profile MB

PART NUMBER: LPMB40X

CHARTS

Situation 1：Performance in free space

LTE 1 & LTE 2 VSWR



Note : Measured with 3m cable

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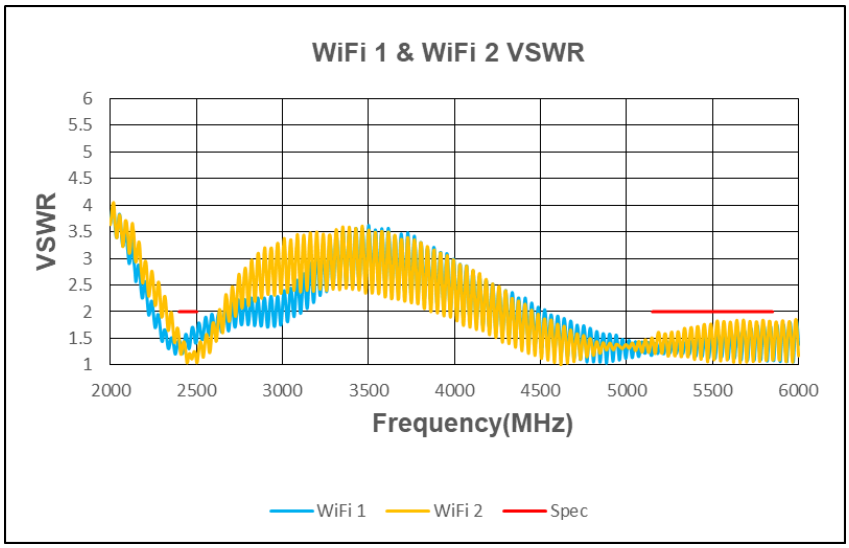
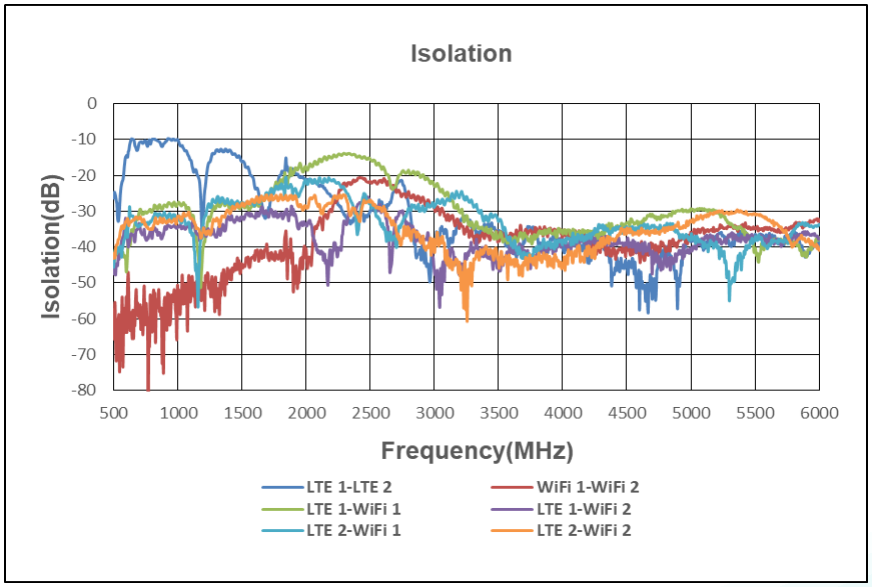
CHARTS

WiFi1 & WiFi2 VSWR



Isolation



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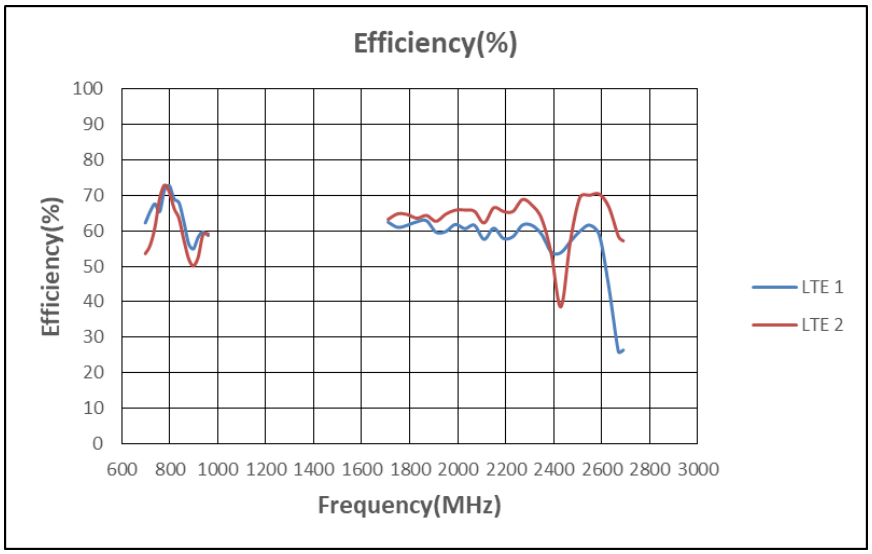
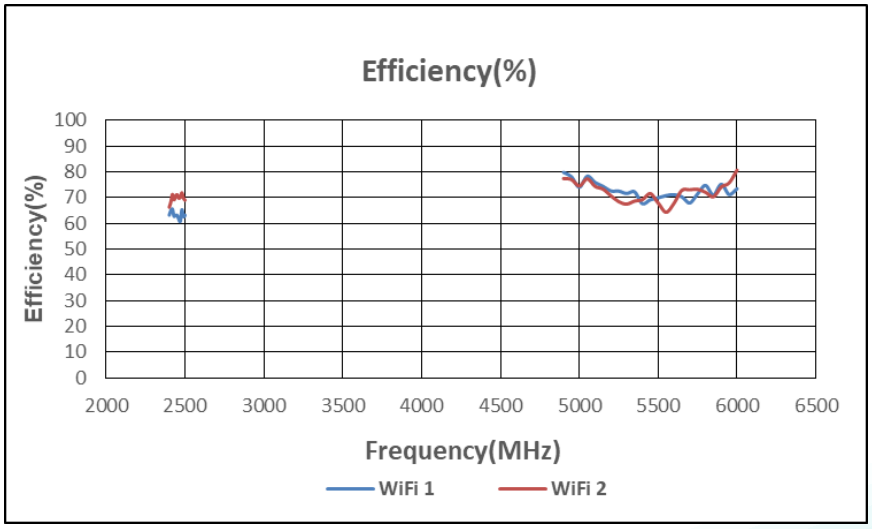
CHARTS

LTE 1 and LTE2 Efficiency



WiFi 1 and WiFi 2 Efficiency



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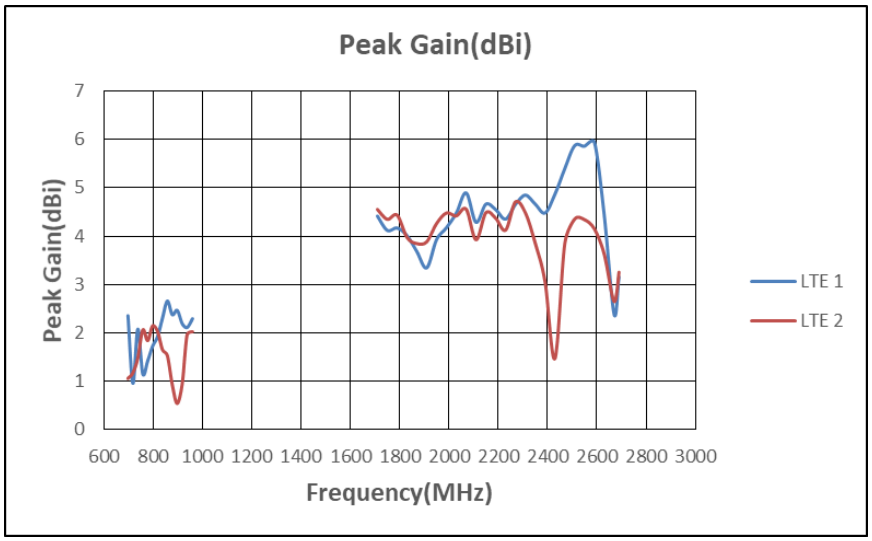
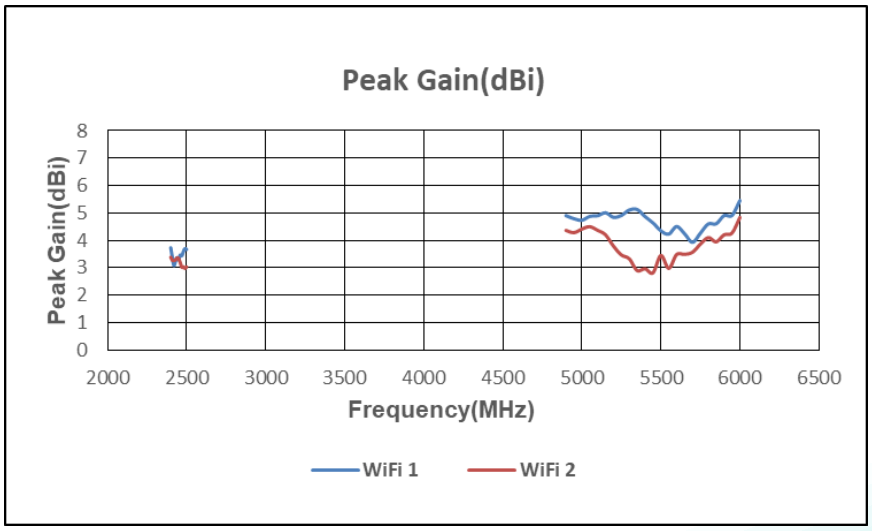
CHARTS

LTE 1 and LTE2 Peak Gain



WiFi 1 and WiFi 2 Peak Gain



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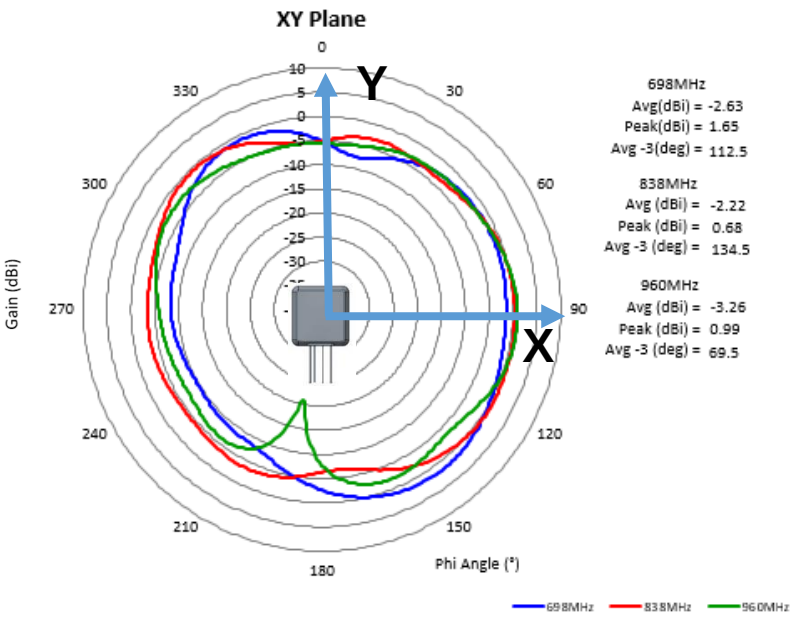
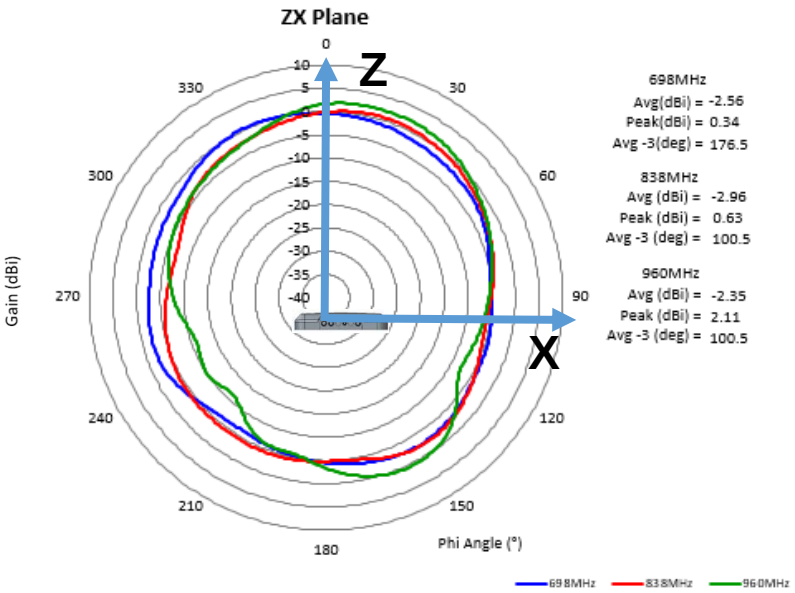


Gain Plots LTE 1



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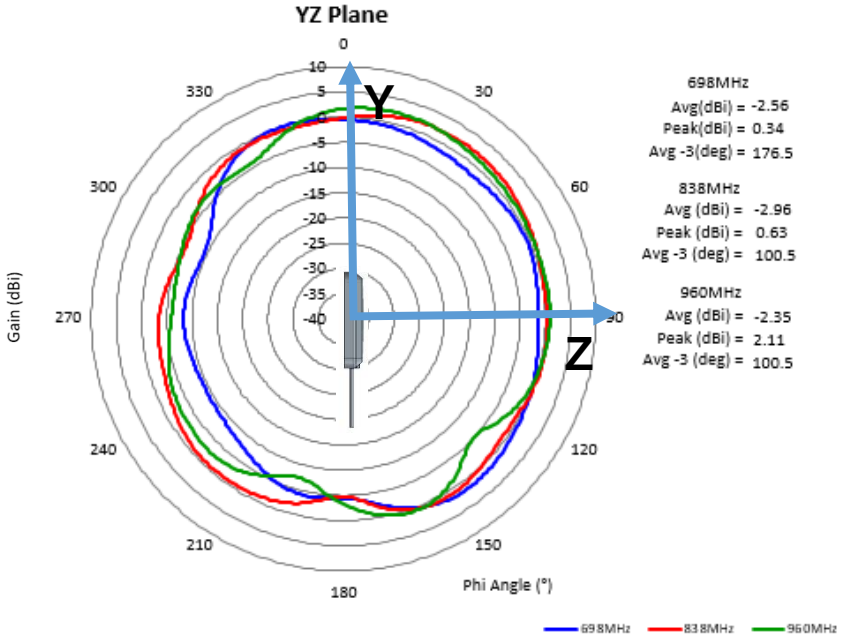

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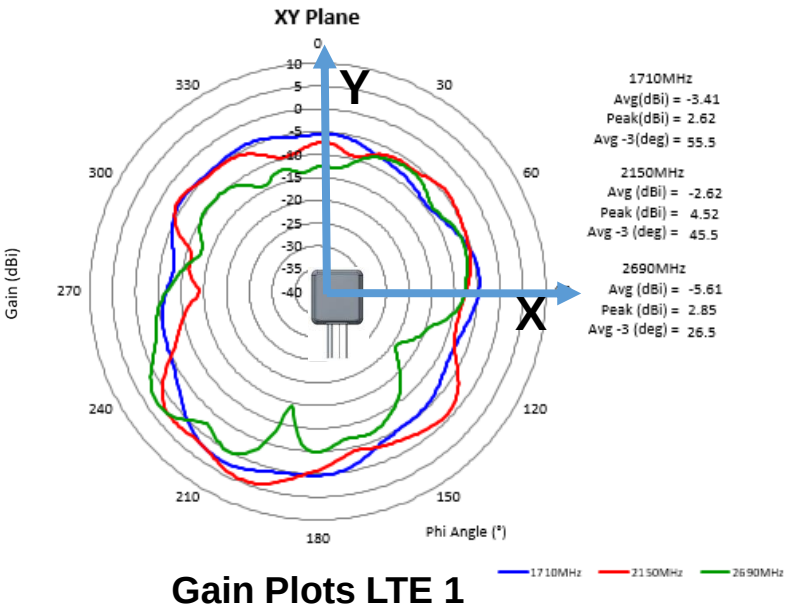

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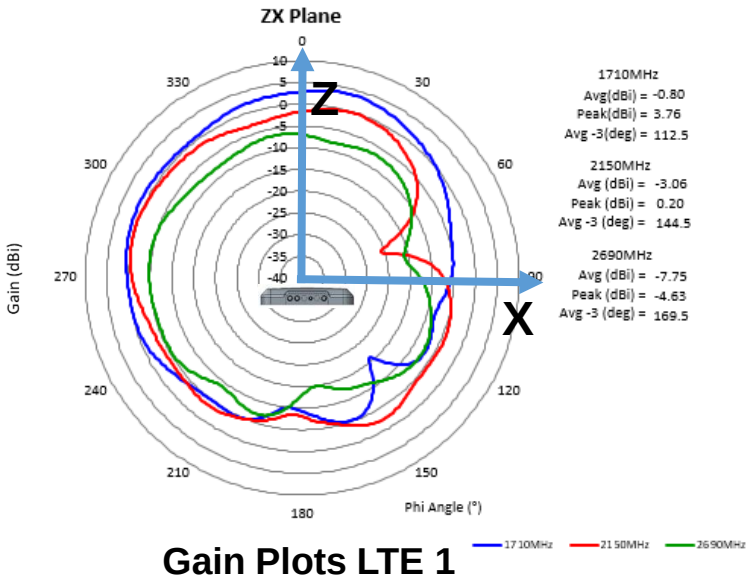

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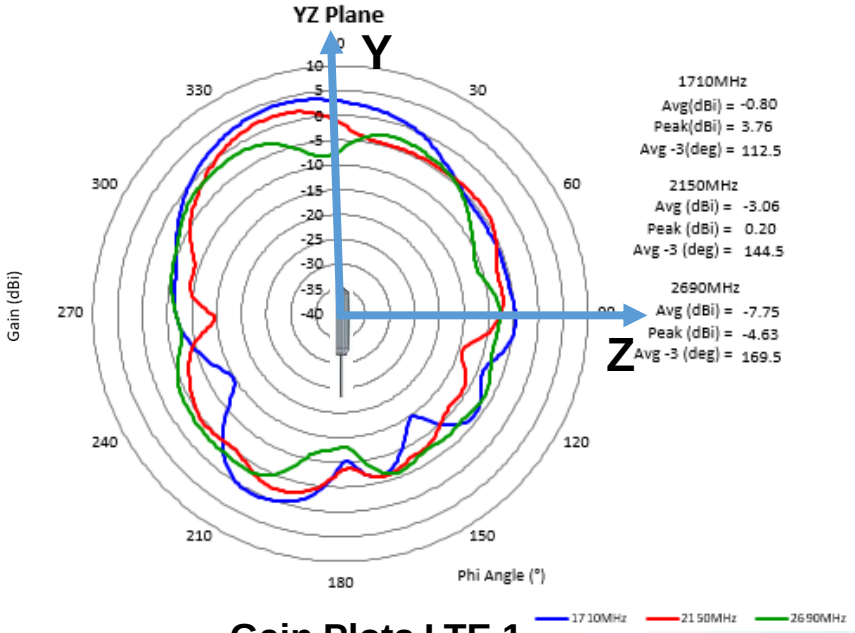

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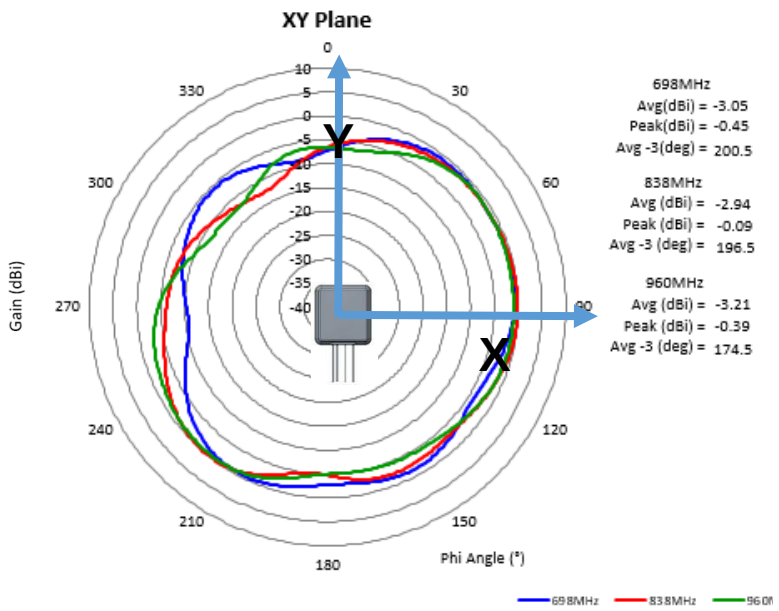

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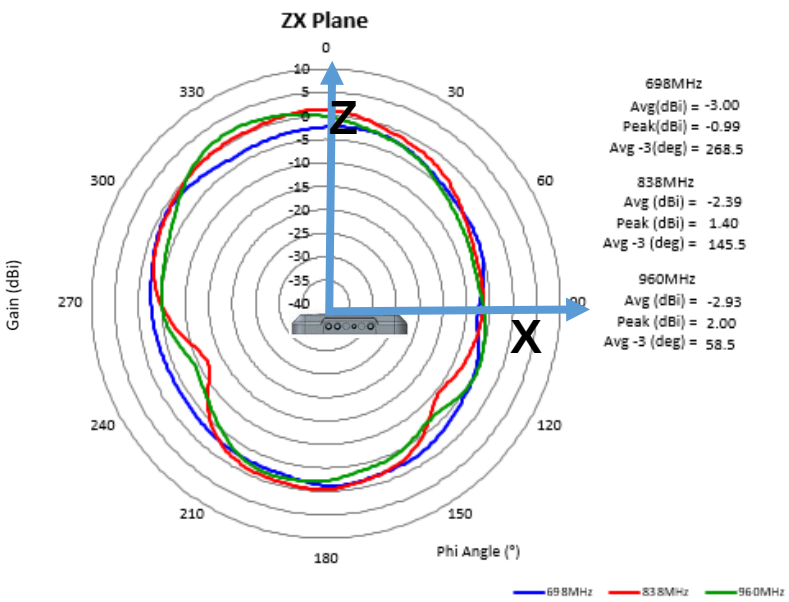

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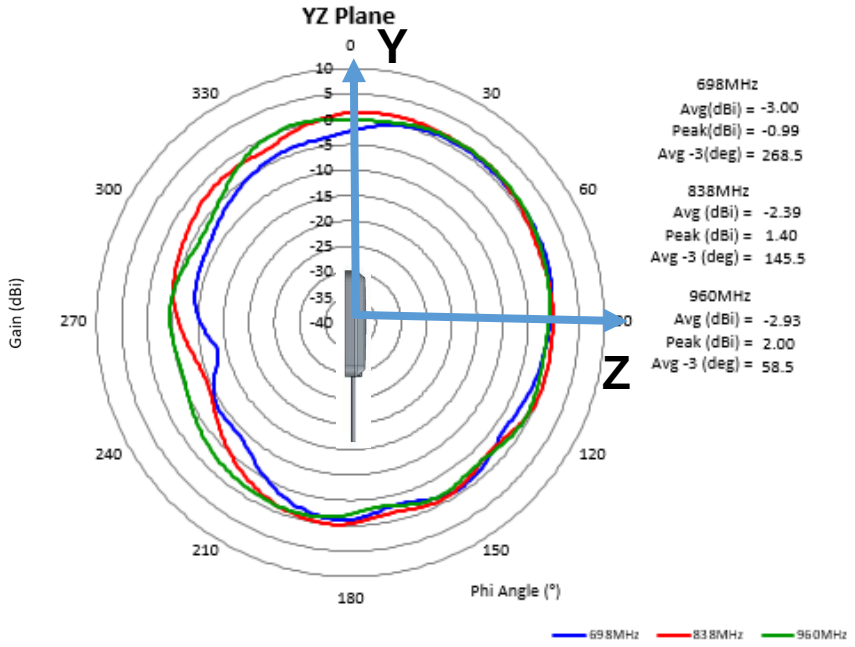

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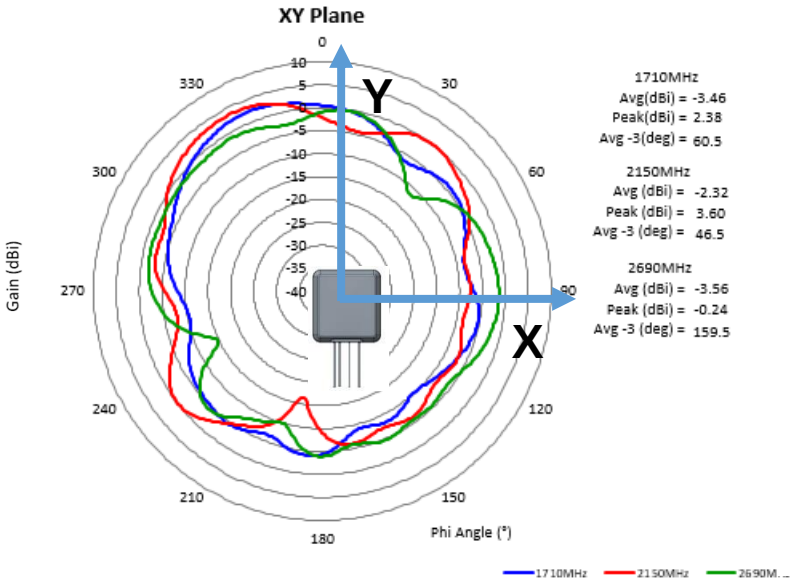

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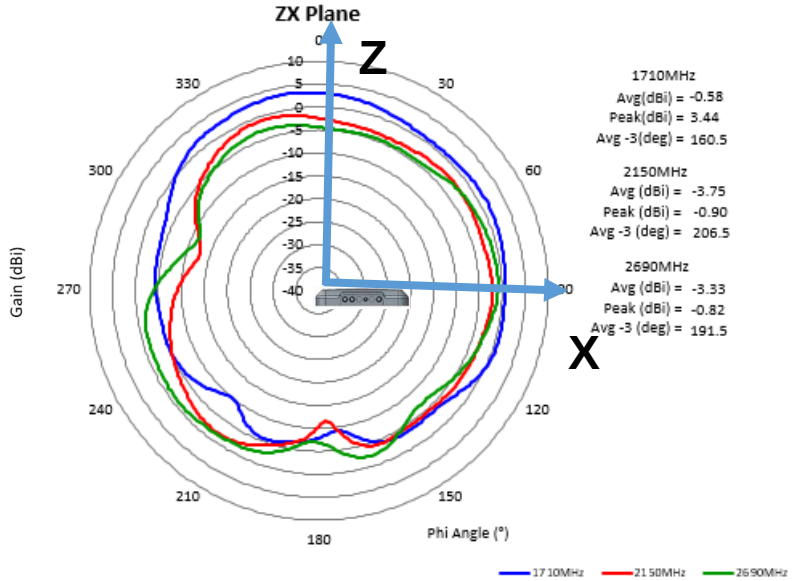

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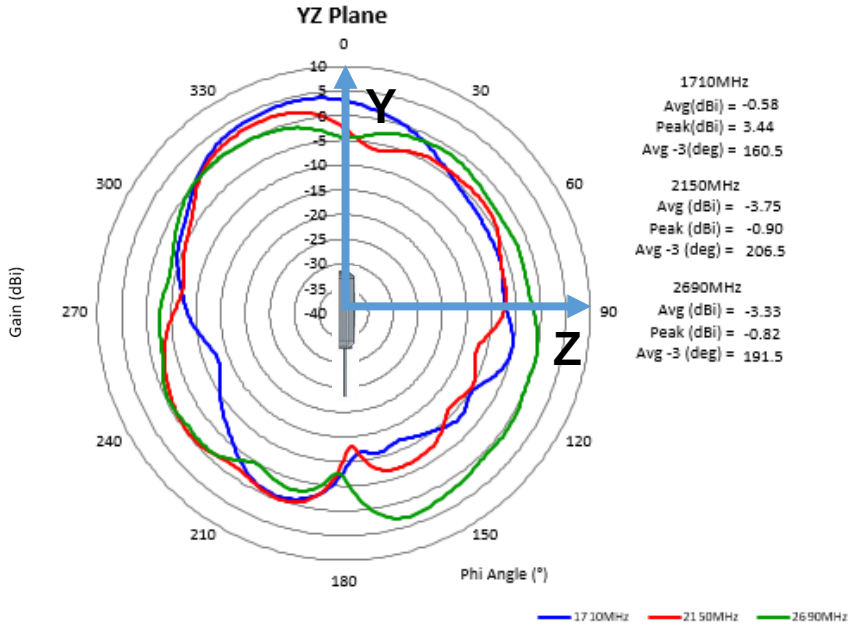

Gain Plots LTE 2

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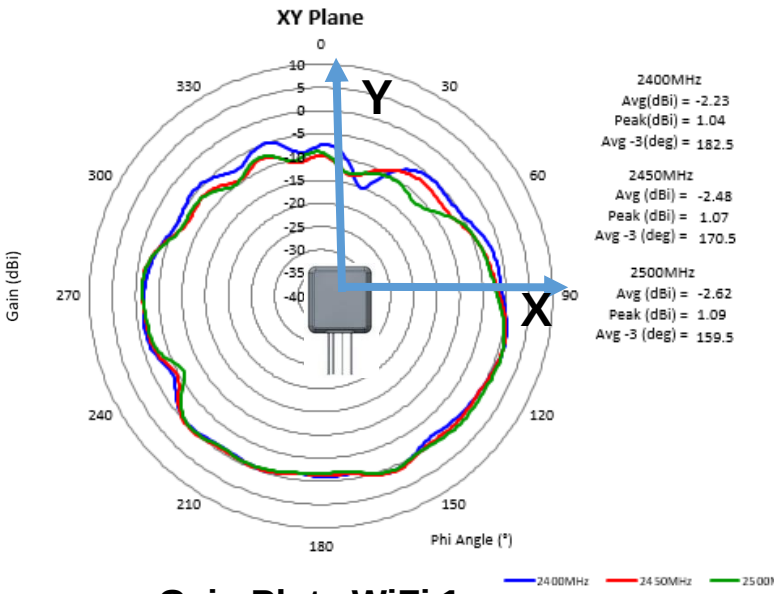
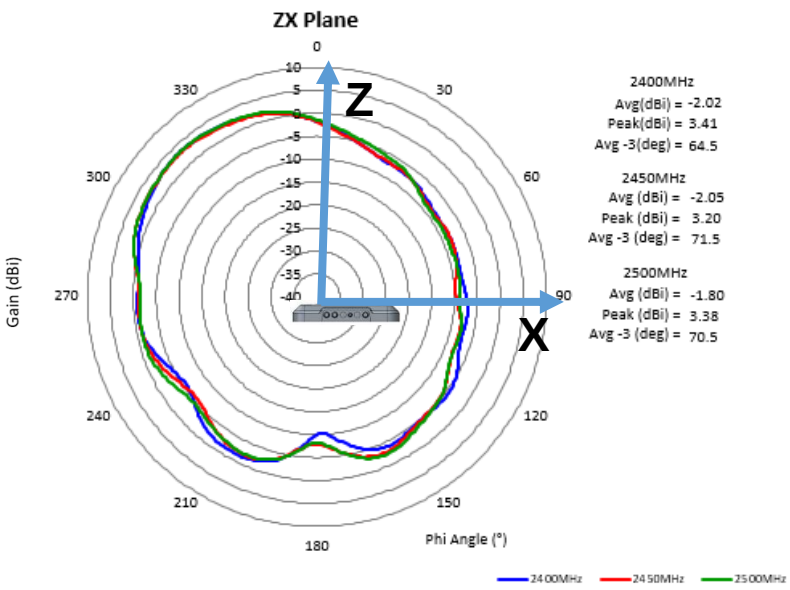


Gain Plots WiFi 1



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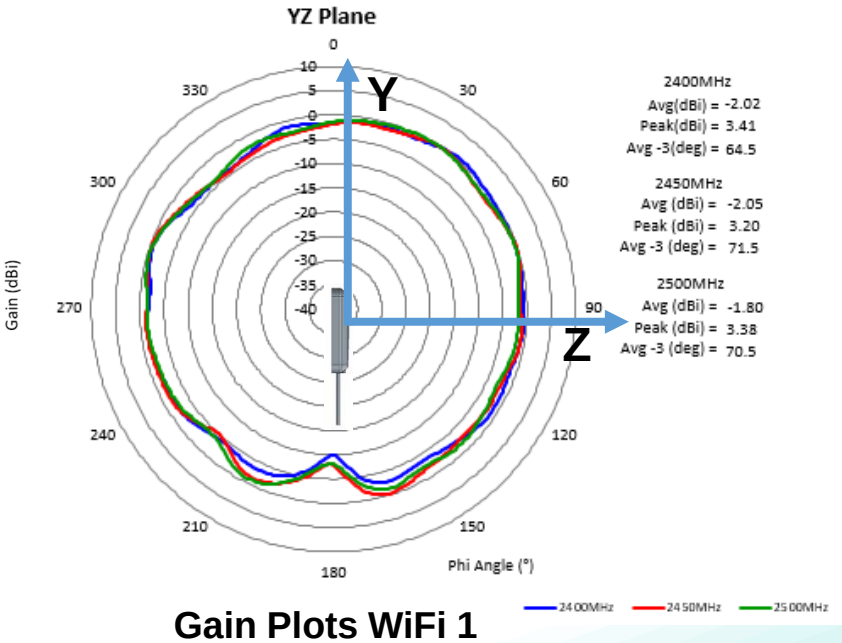

Gain Plots WiFi 1

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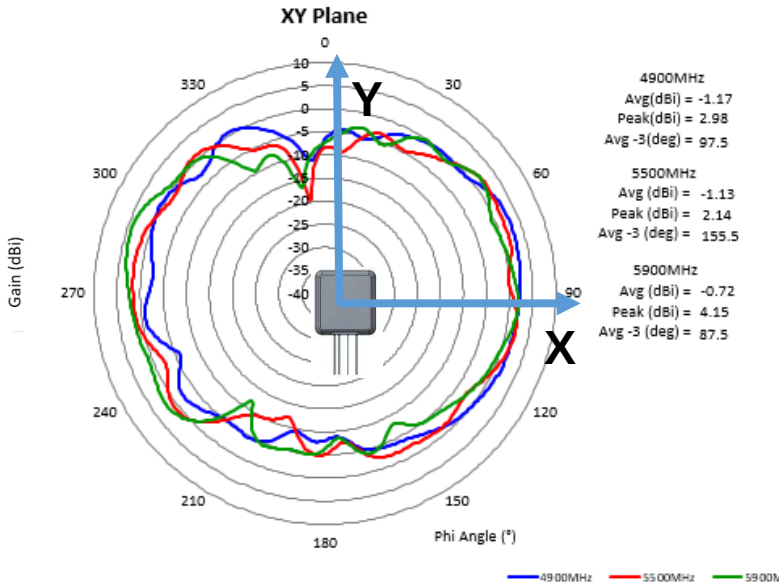
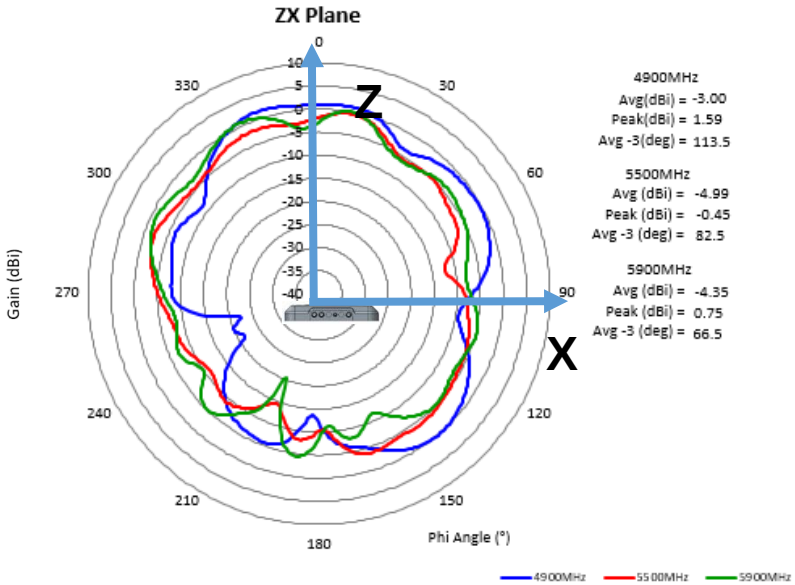
PART NUMBER: LPMB40X

CHARTS



Gain Plots WiFi 1



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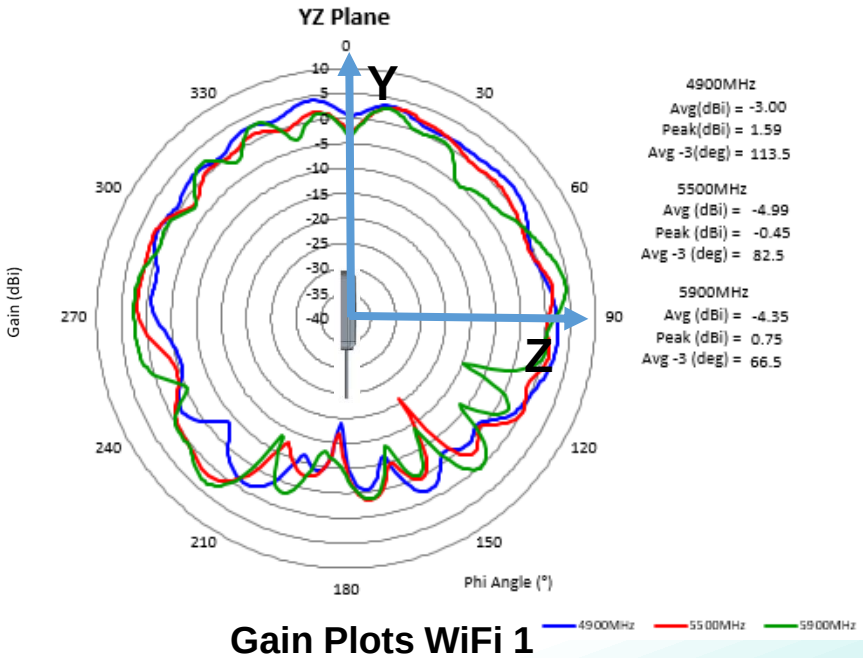

Gain Plots WiFi 1

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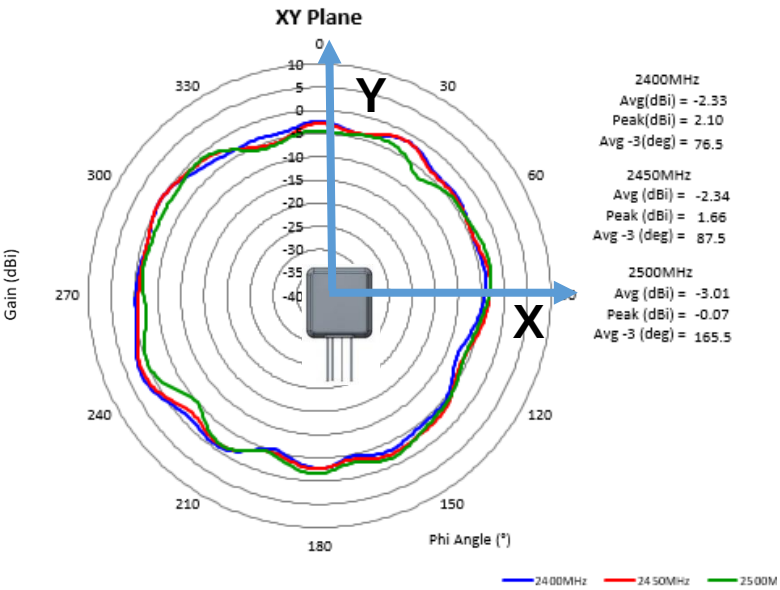
RoHS COMPLIANT

Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

PART NUMBER: LPMB40X

CHARTS



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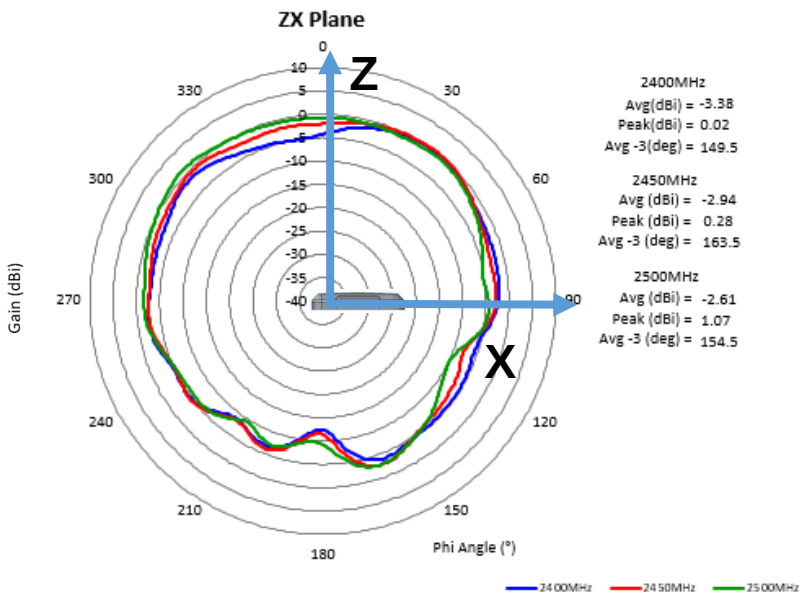

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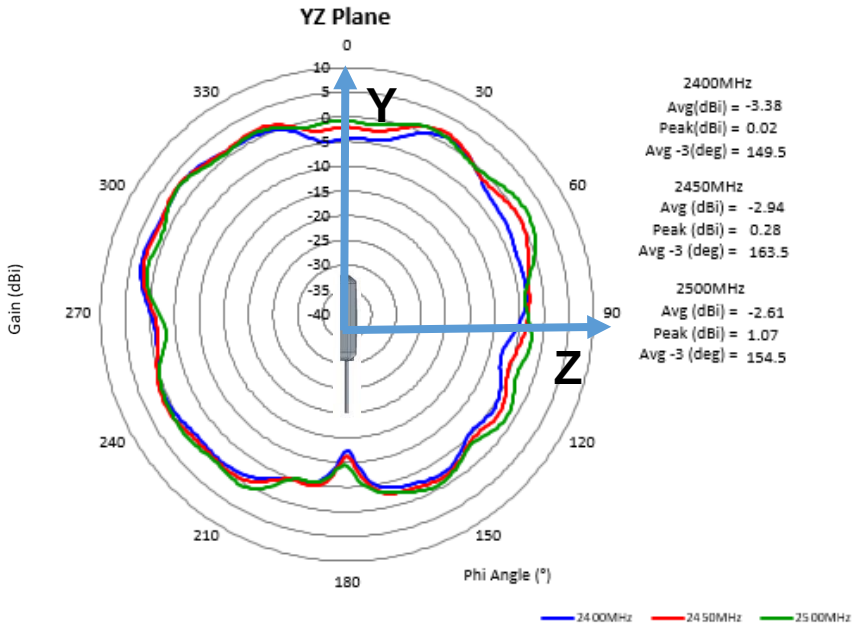

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PART NUMBER: LPMB40X

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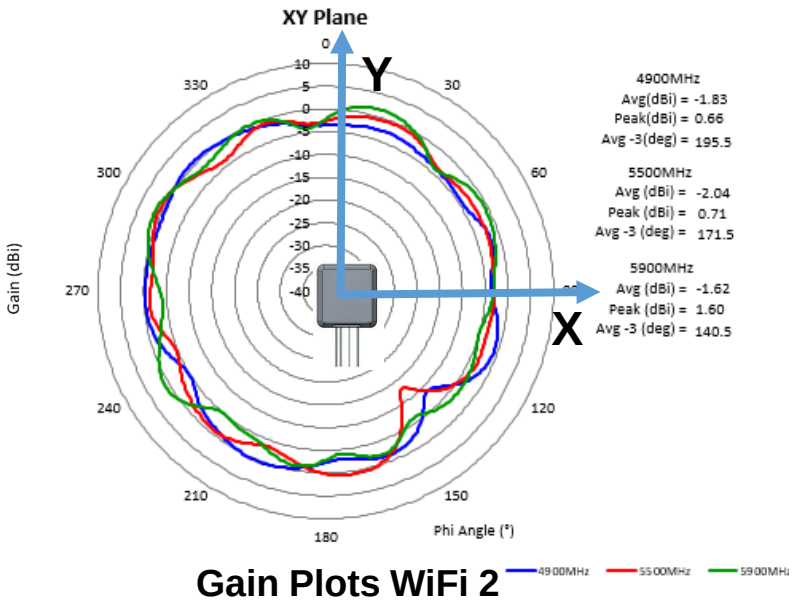

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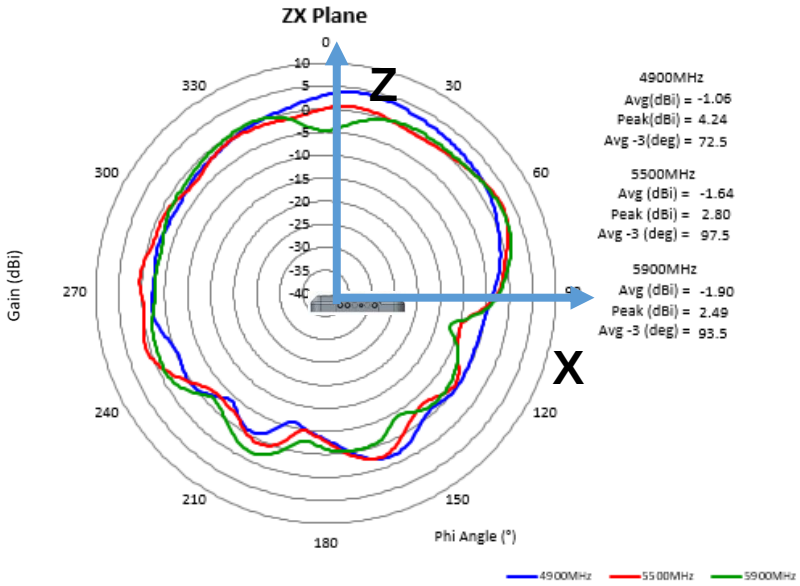

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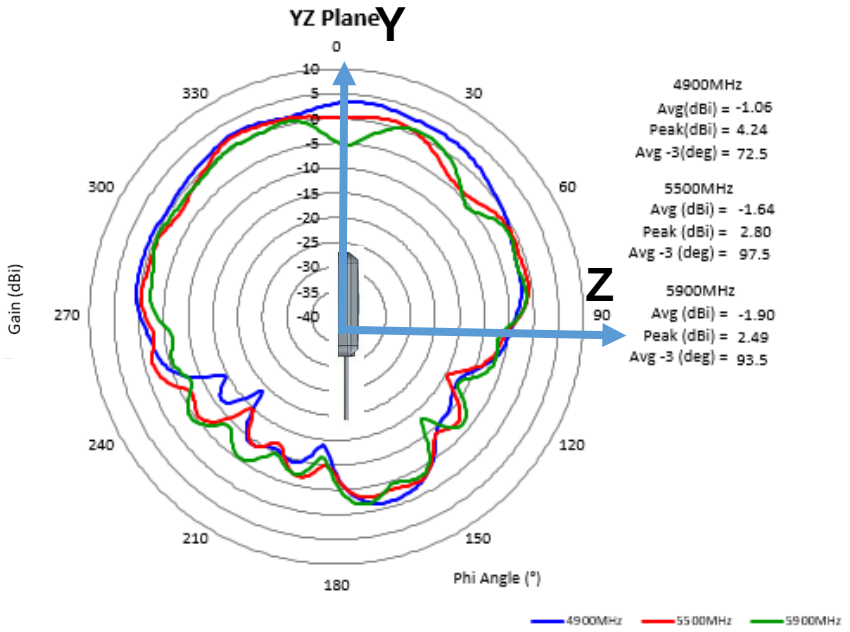

Gain Plots WiFi 2

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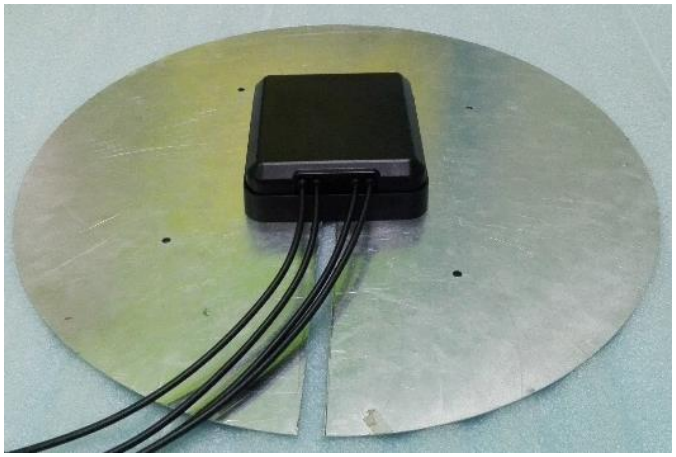
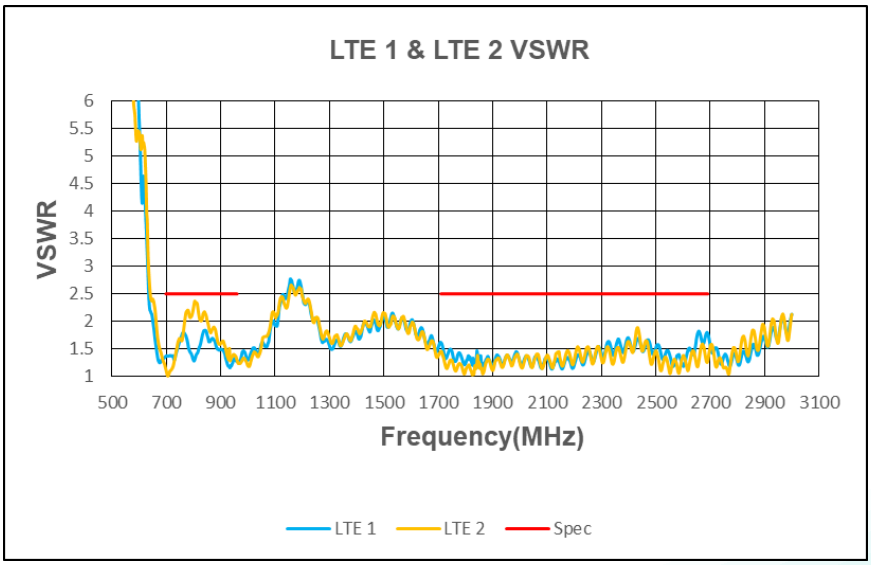
RoHS COMPLIANT

CHARTS

Situation 2： Performance on 1 inch bracket with ϕ500mm(19.7inch) ground



LTE 1& LTE 2 VSWR



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

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RoHS COMPLIANT

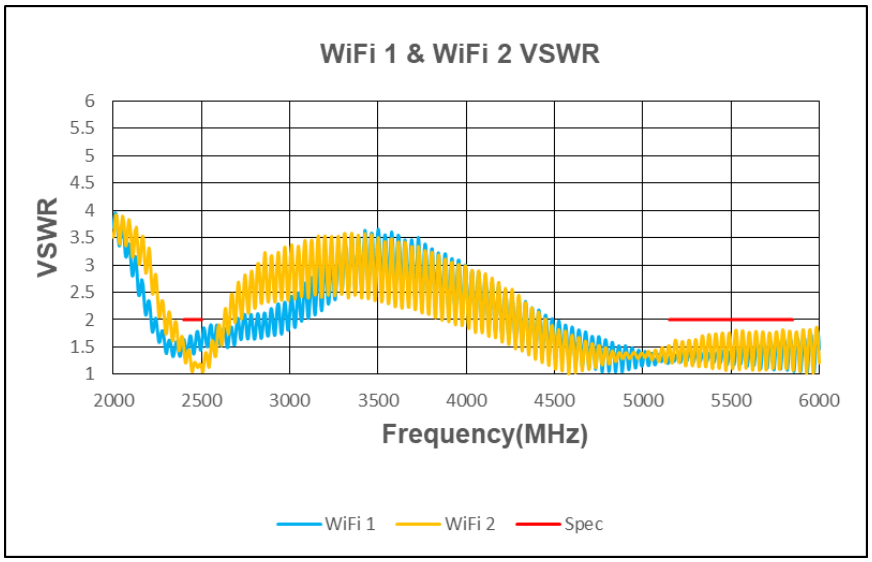
Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

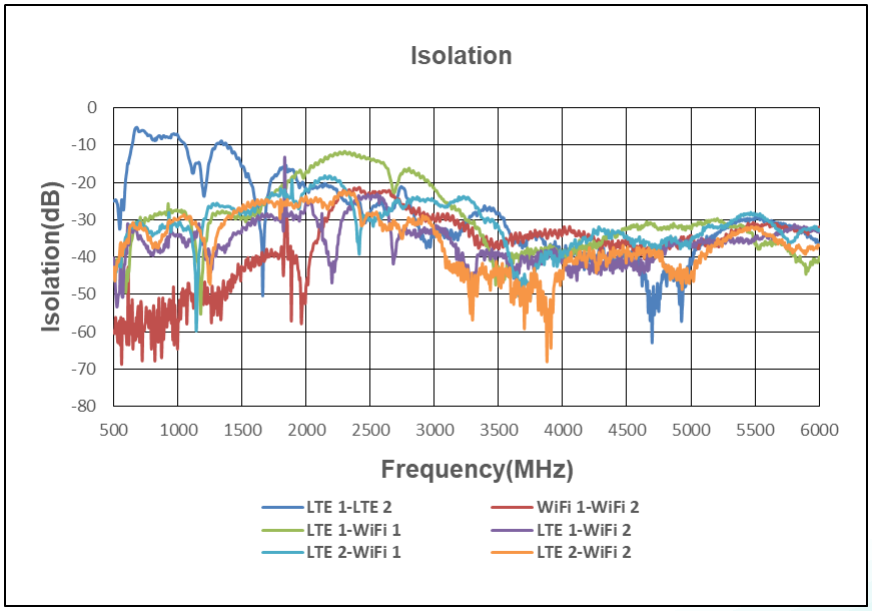
PART NUMBER: LPMB40X

CHARTS

WiFi 1& WiFi 2 VSWR



Isolation



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RoHS COMPLIANT

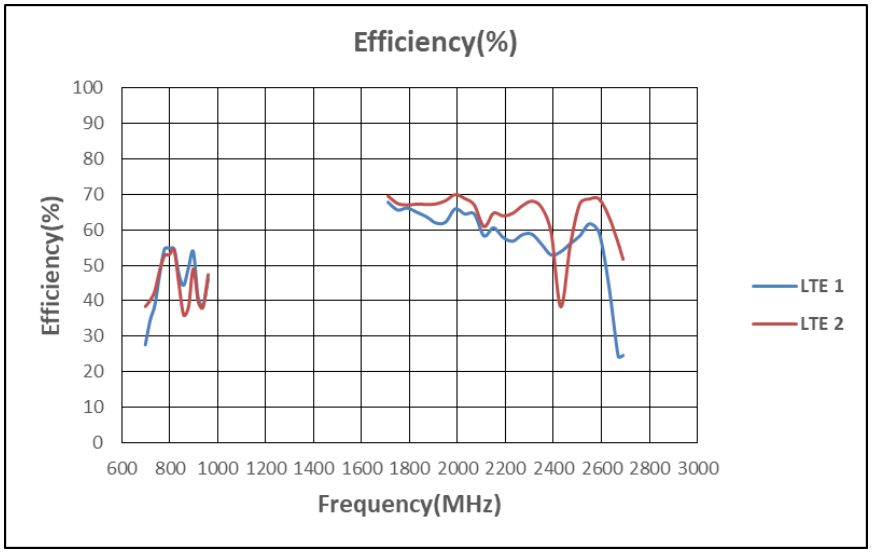
Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

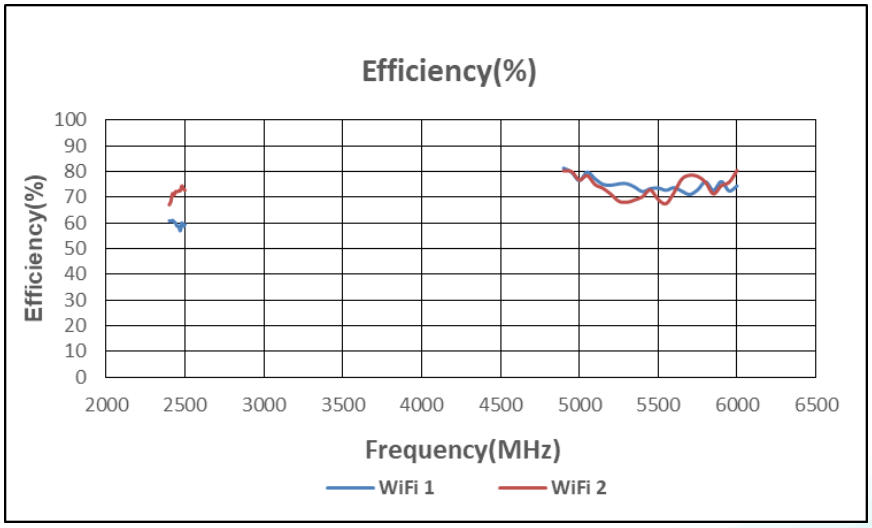
PART NUMBER: LPMB40X

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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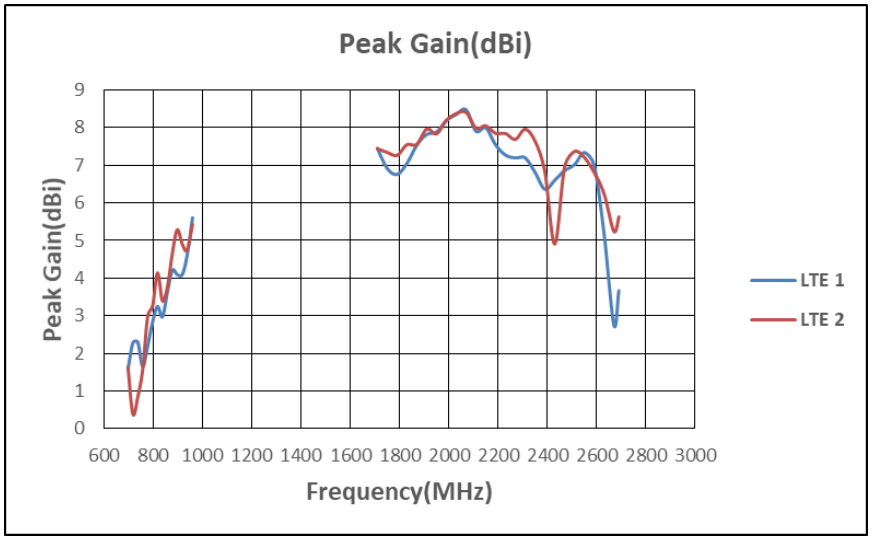
Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

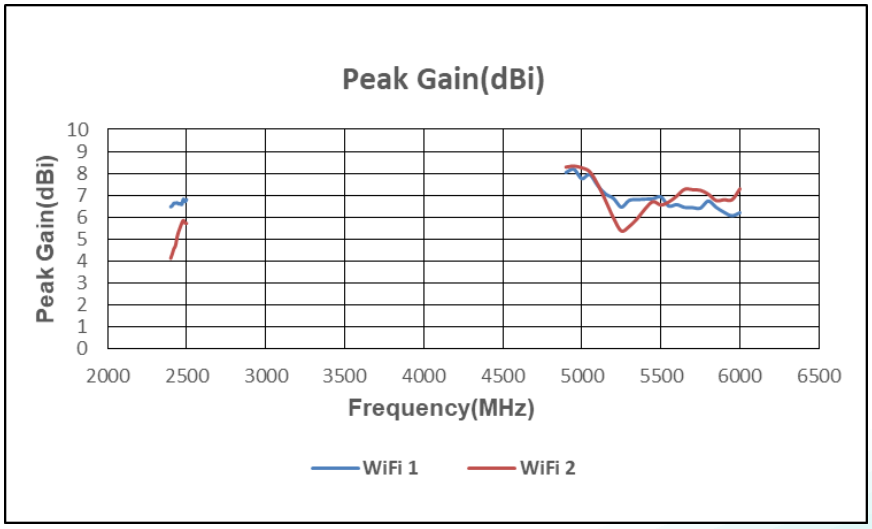
PART NUMBER: LPMB40X

CHARTS

LTE 1 and LTE2 Peak Gain



WiFi 1 and WiFi 2 Peak Gain



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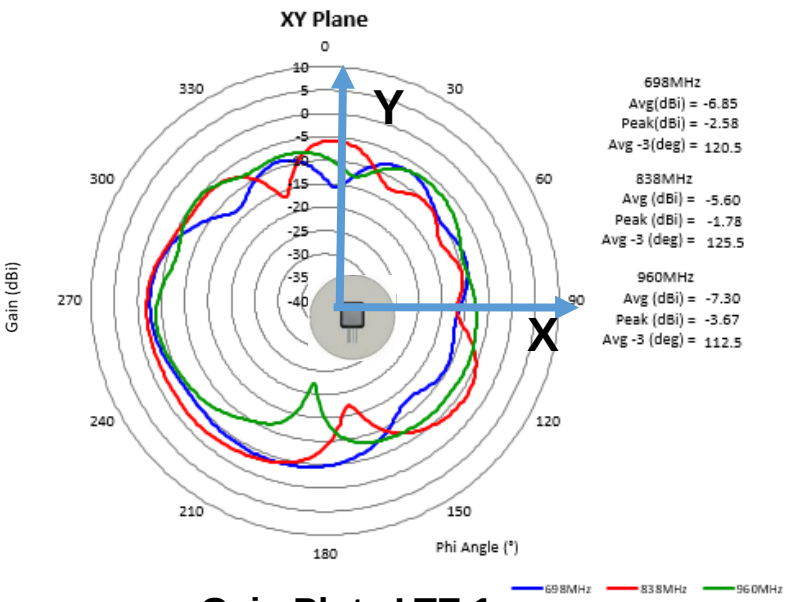
RoHS COMPLIANT

Description: 2X LTE, 2XWiFi Vehicular Antenna

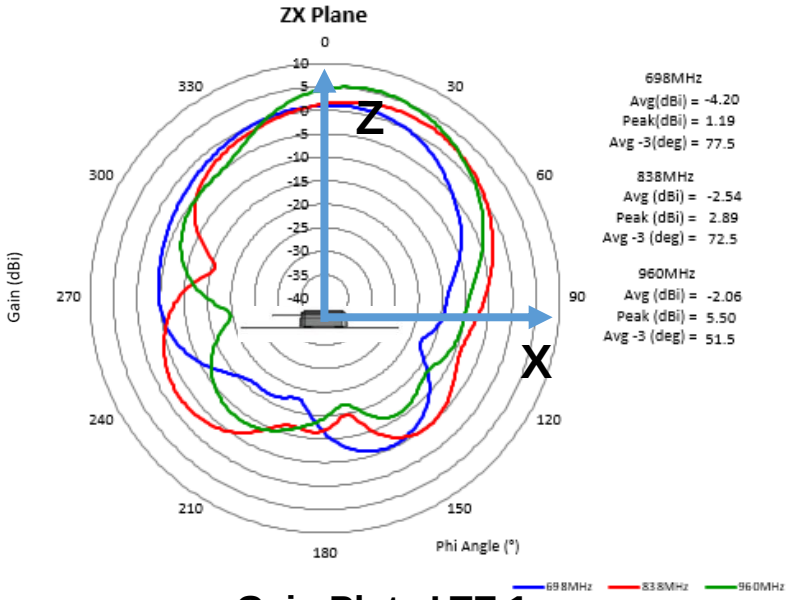
Series: Low Profile MB

PART NUMBER: LPMB40X

CHARTS



Gain Plots LTE 1



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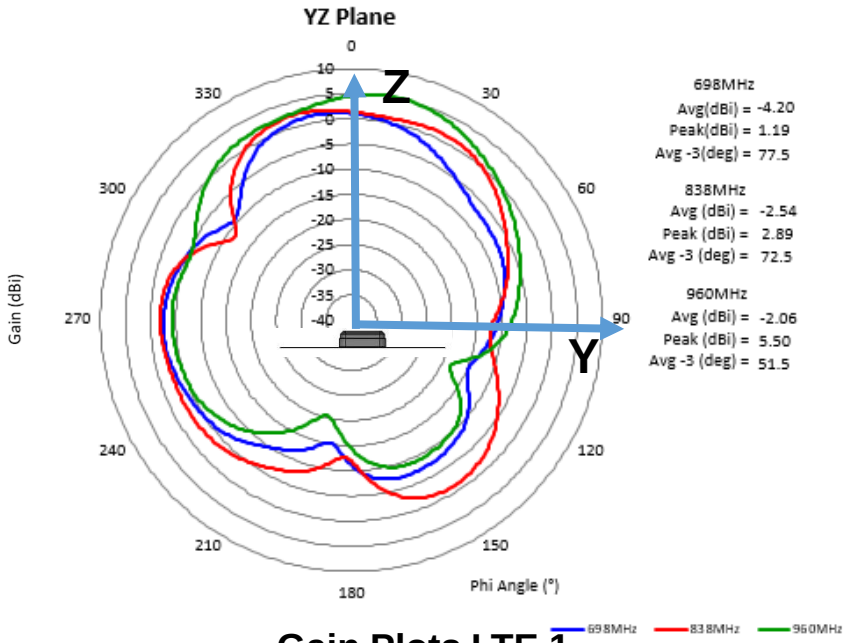

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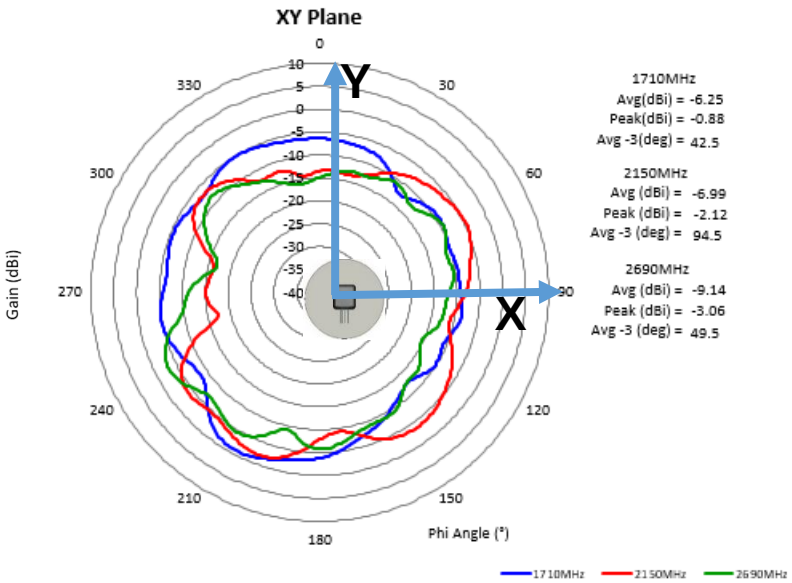

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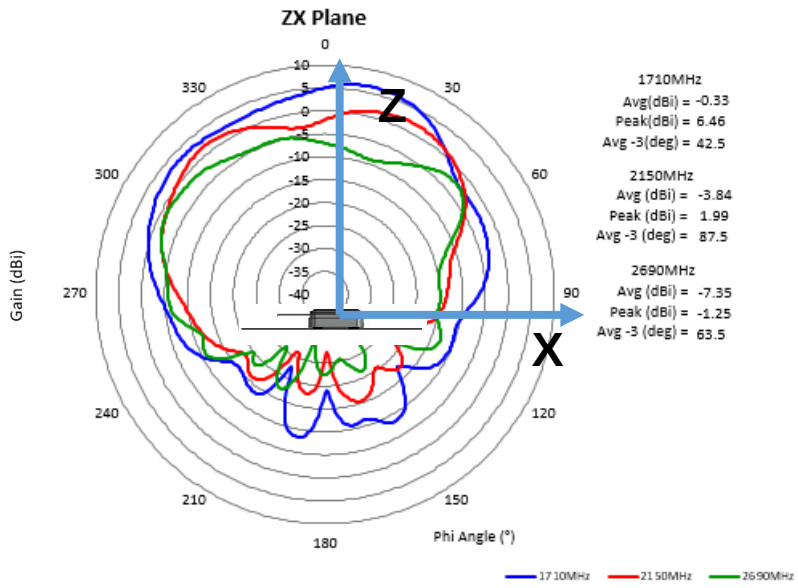

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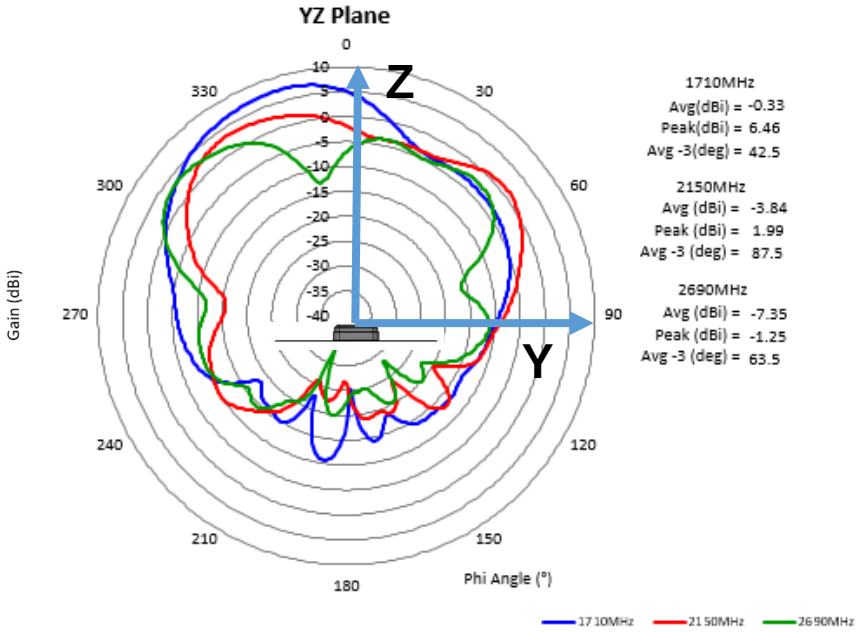

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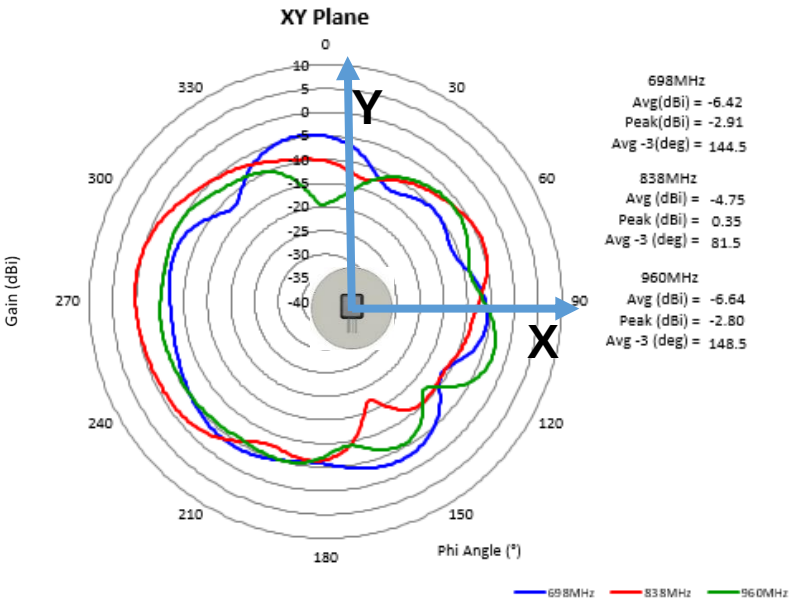

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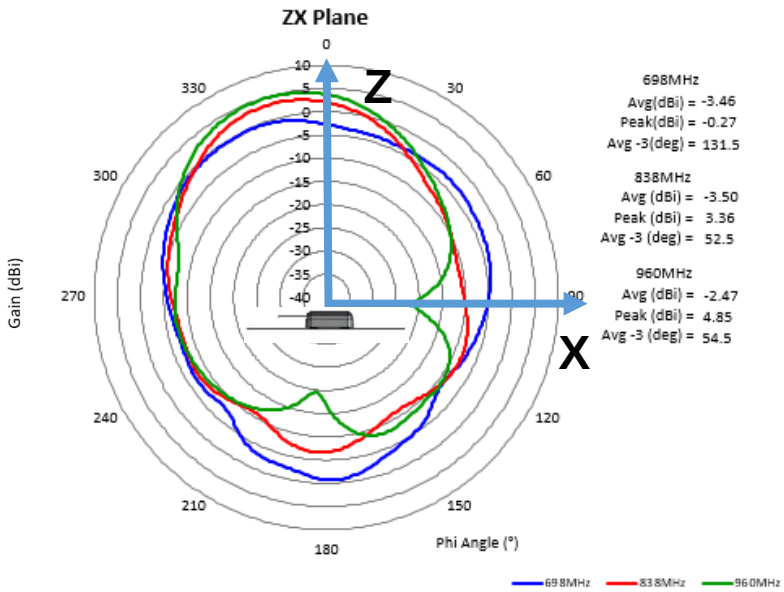

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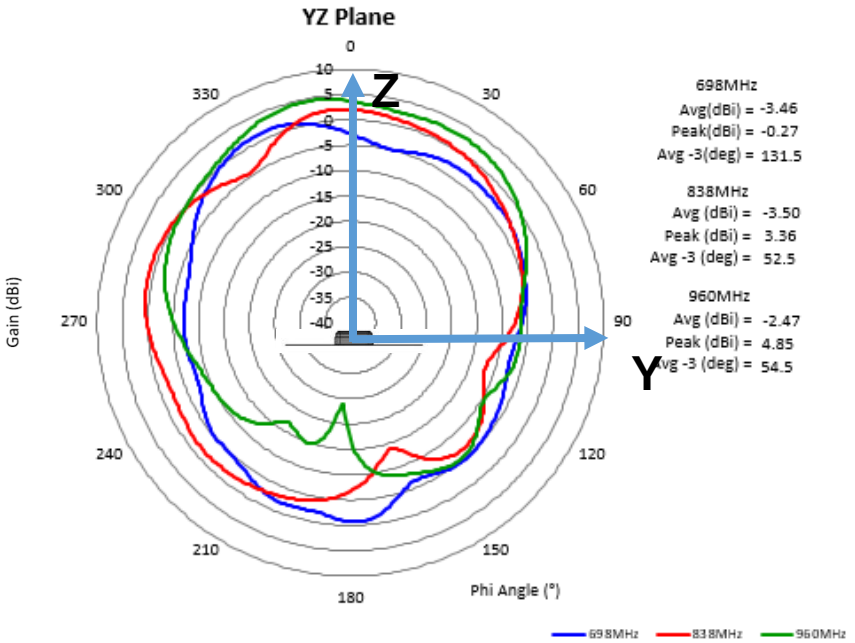

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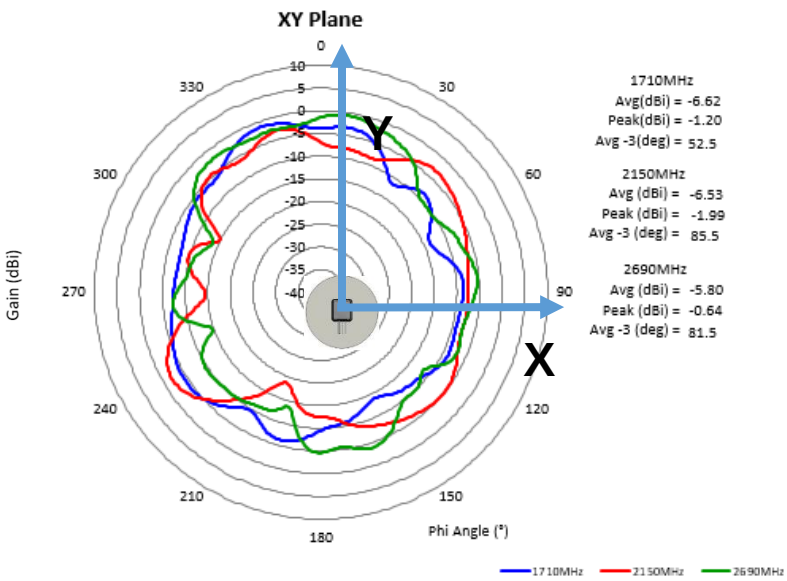

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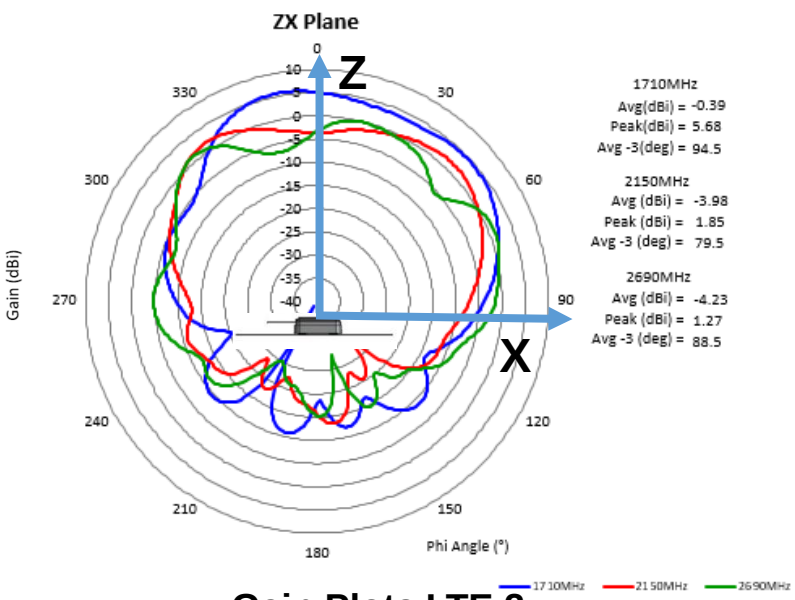

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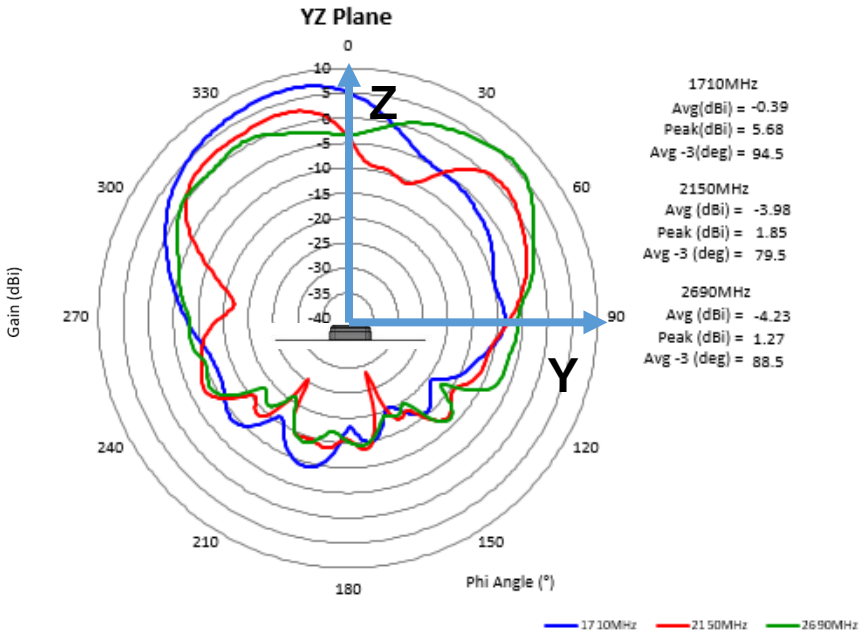

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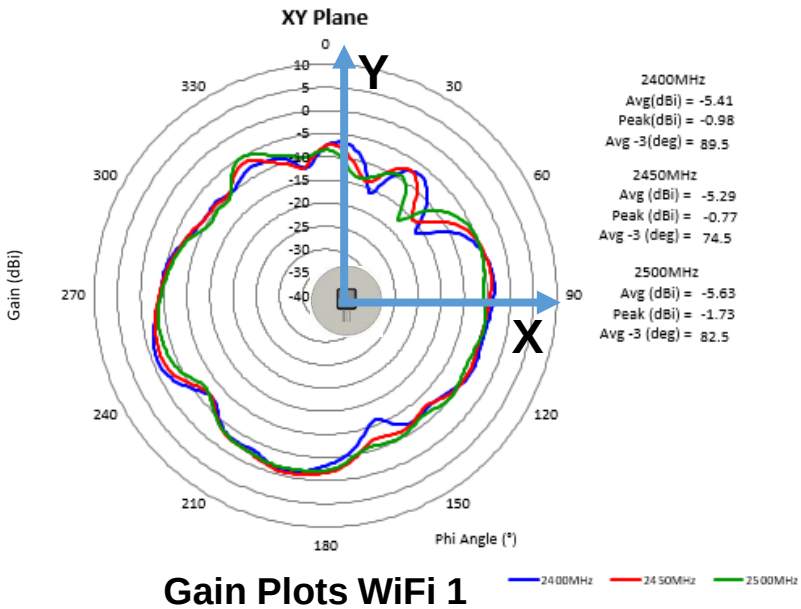
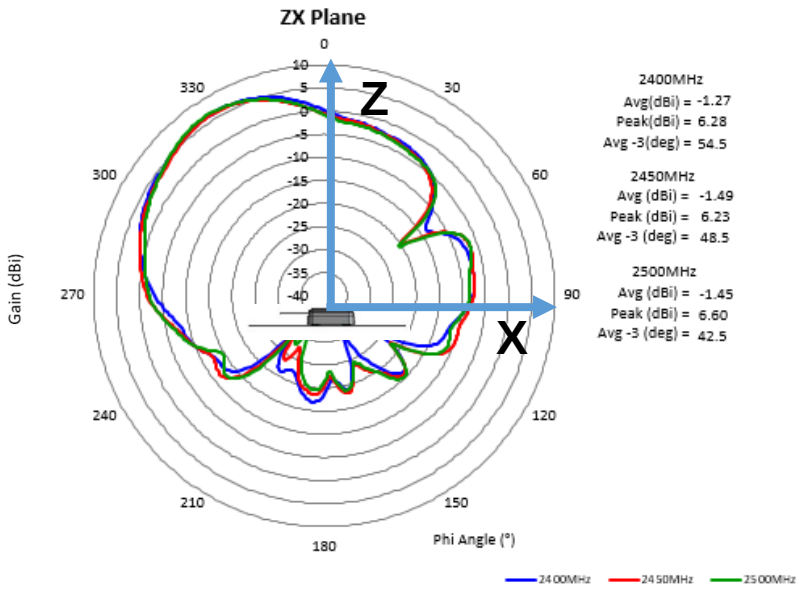


Gain Plots WiFi 1



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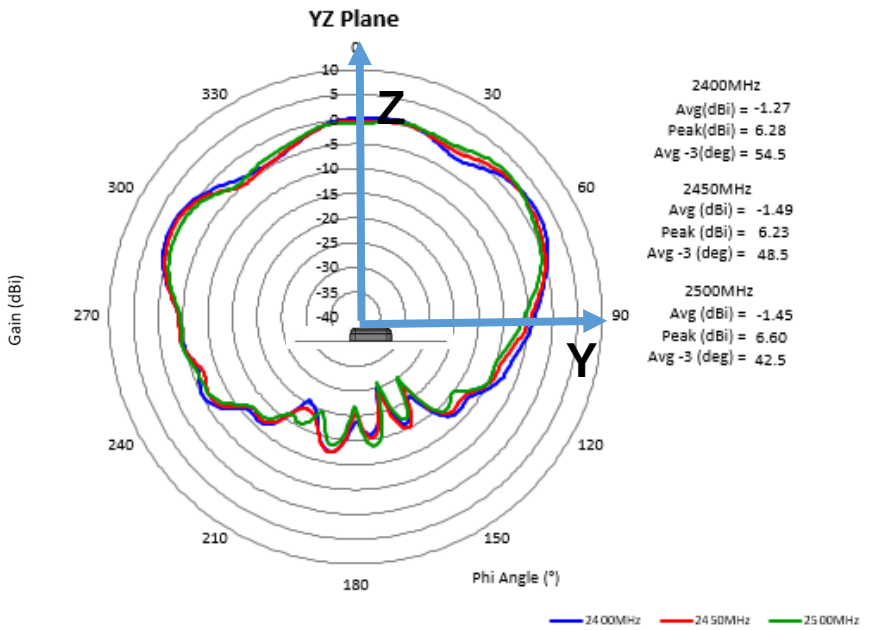

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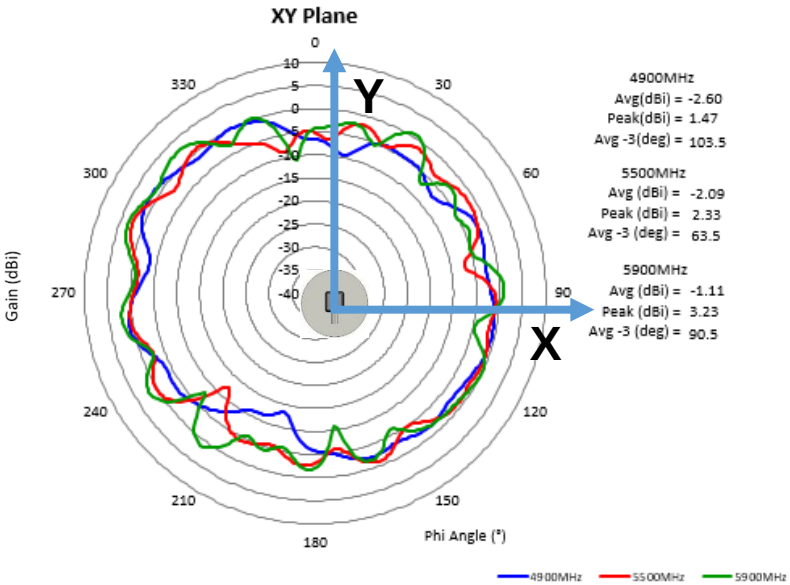

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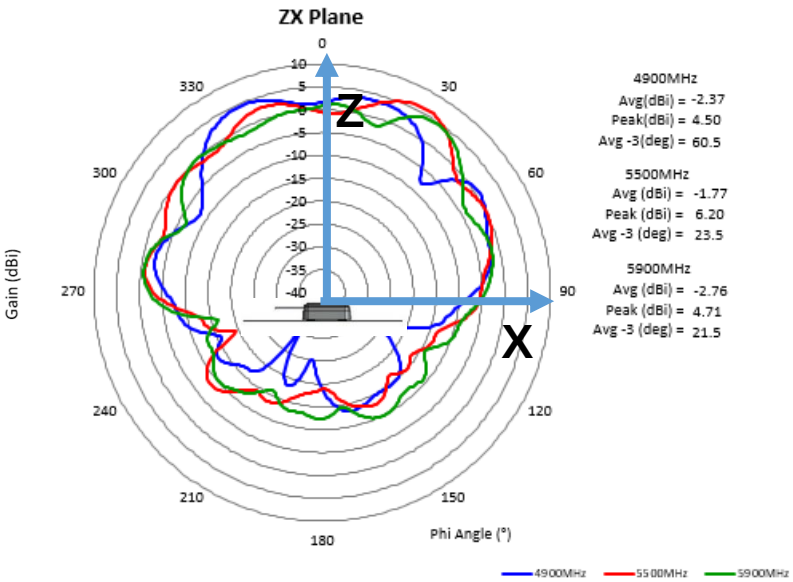

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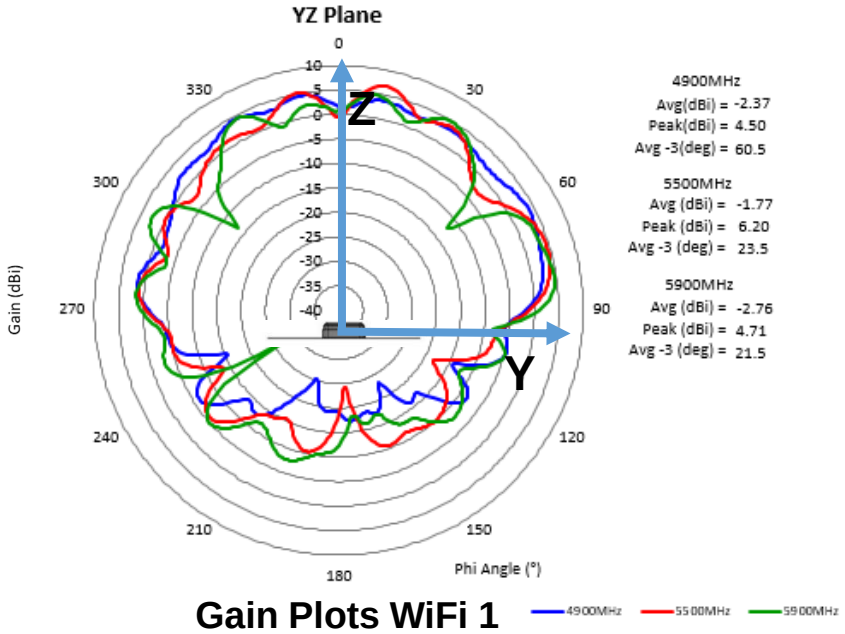

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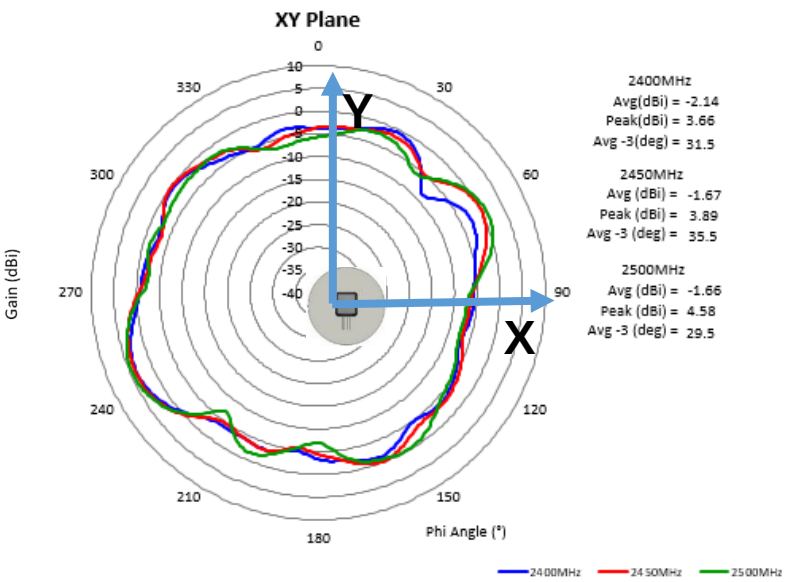

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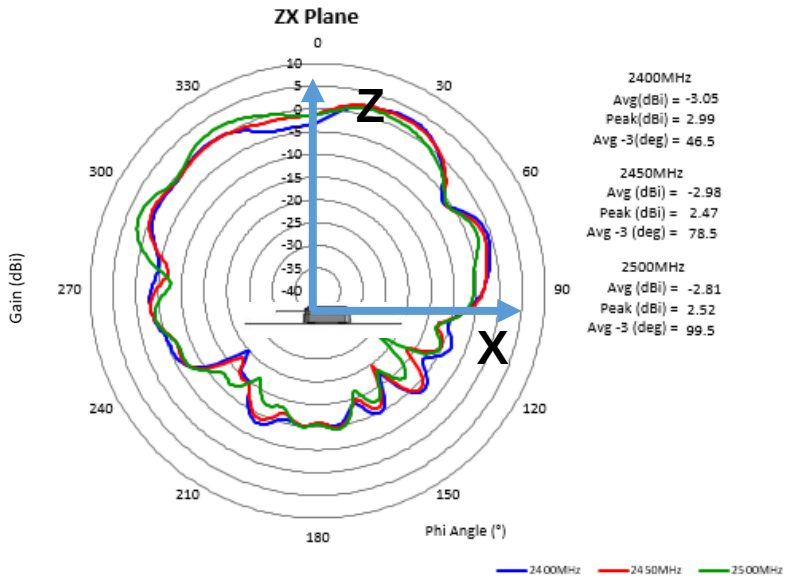

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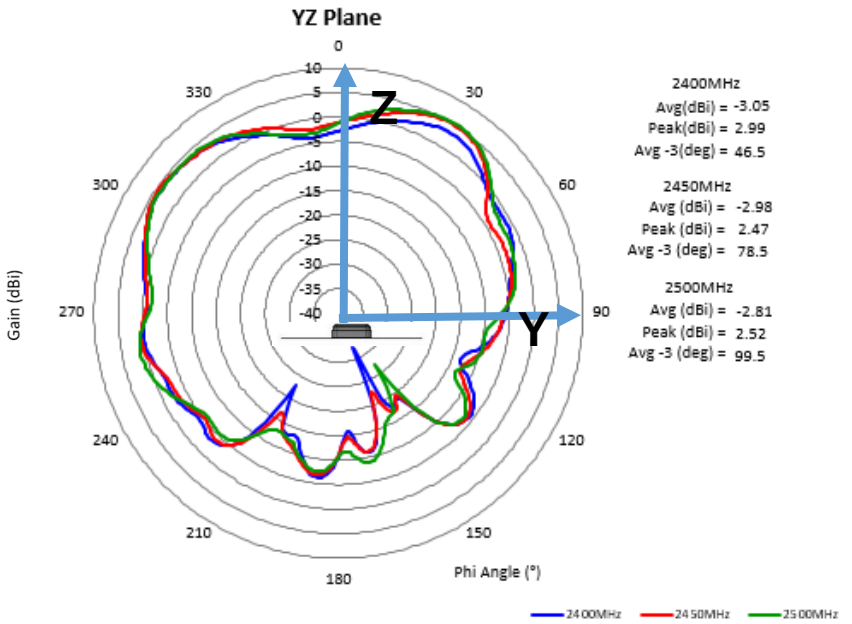

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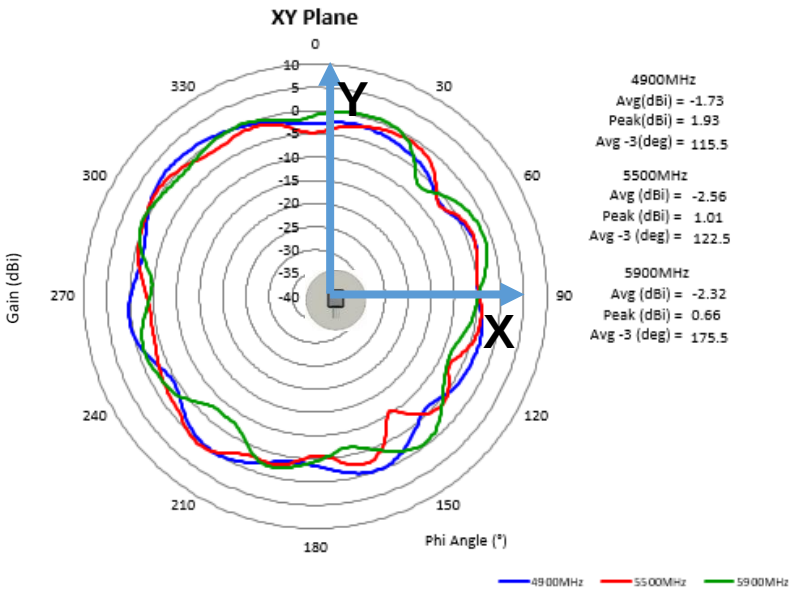
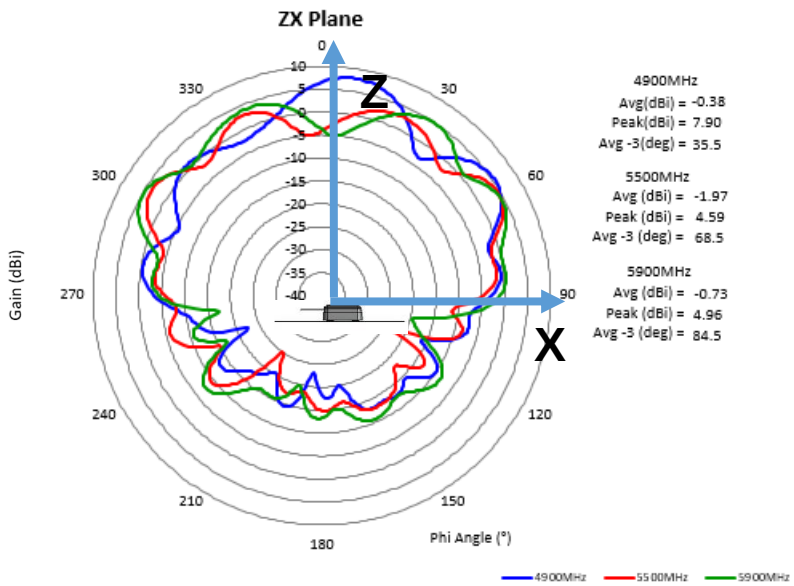
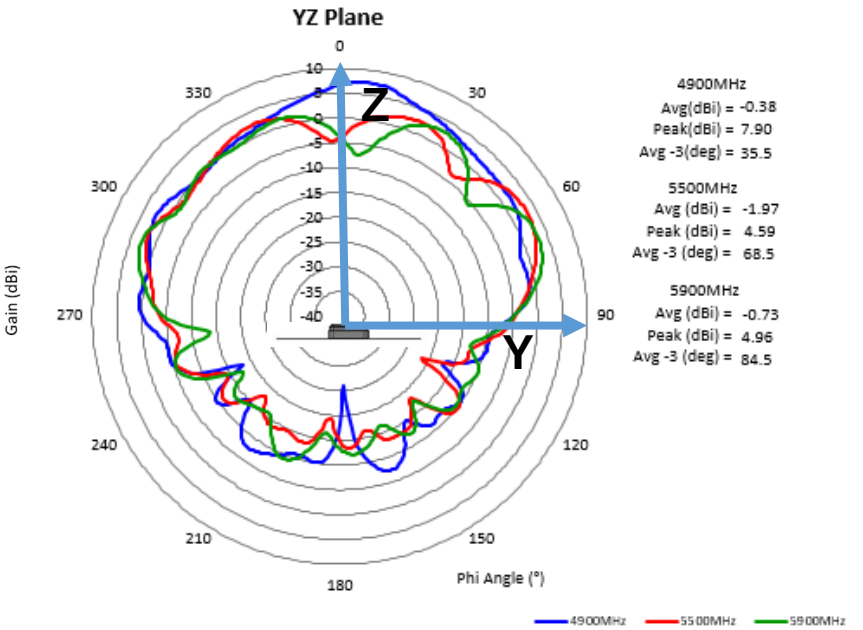


Gain Plots WiFi 2



Gain Plots WiFi 2



Gain Plots WiFi 2

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RoHS COMPLIANT

Description: 2X LTE, 2XWiFi Vehicular Antenna

Series: Low Profile MB

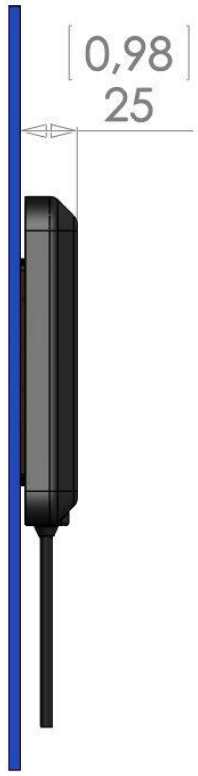
PART NUMBER: LPMB40X

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.



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RoHS COMPLIANT

Description: 2X LTE, 2XWiFi Vehicular Antenna

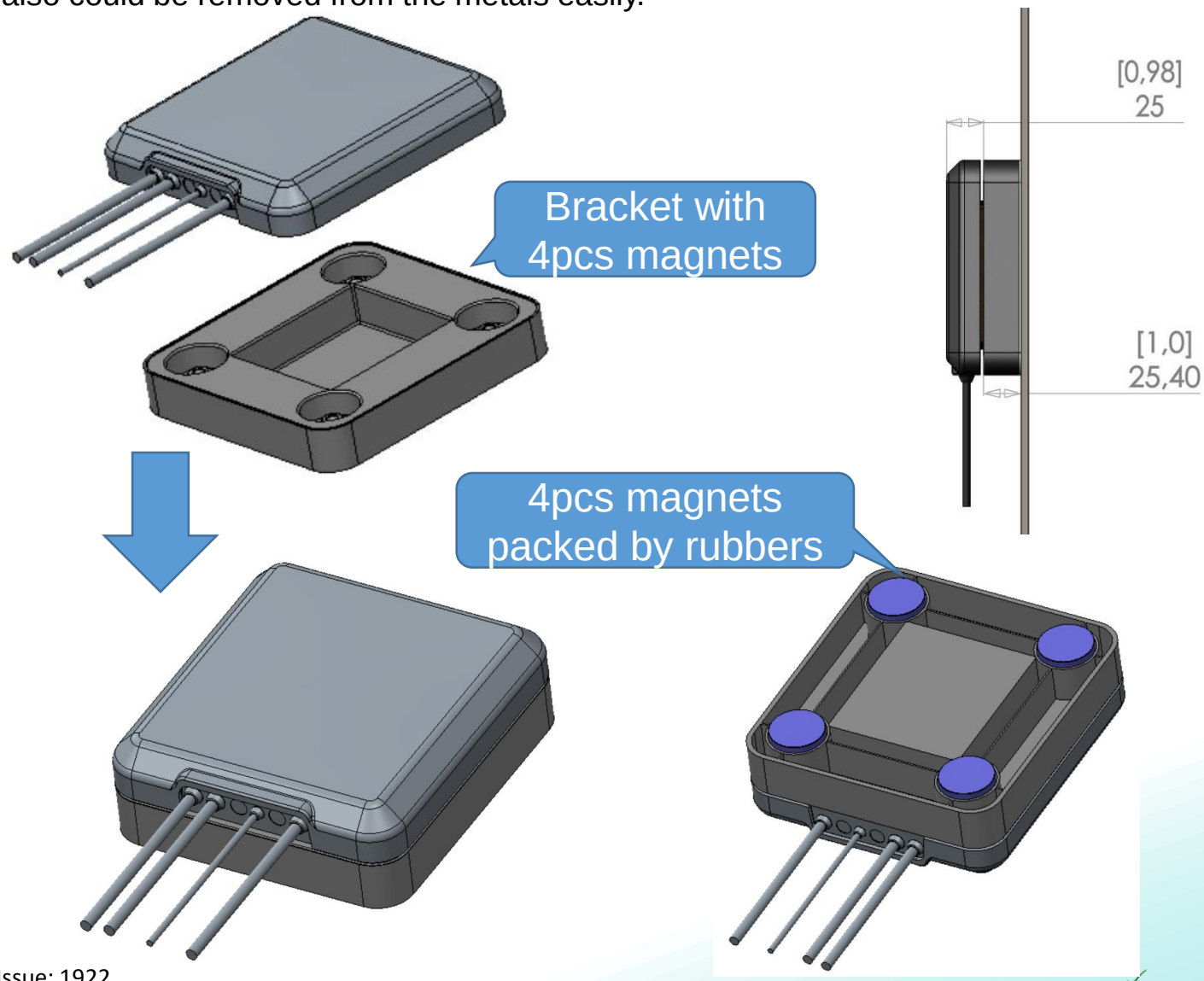
Series: Low Profile MB

PART NUMBER: LPMB40X

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

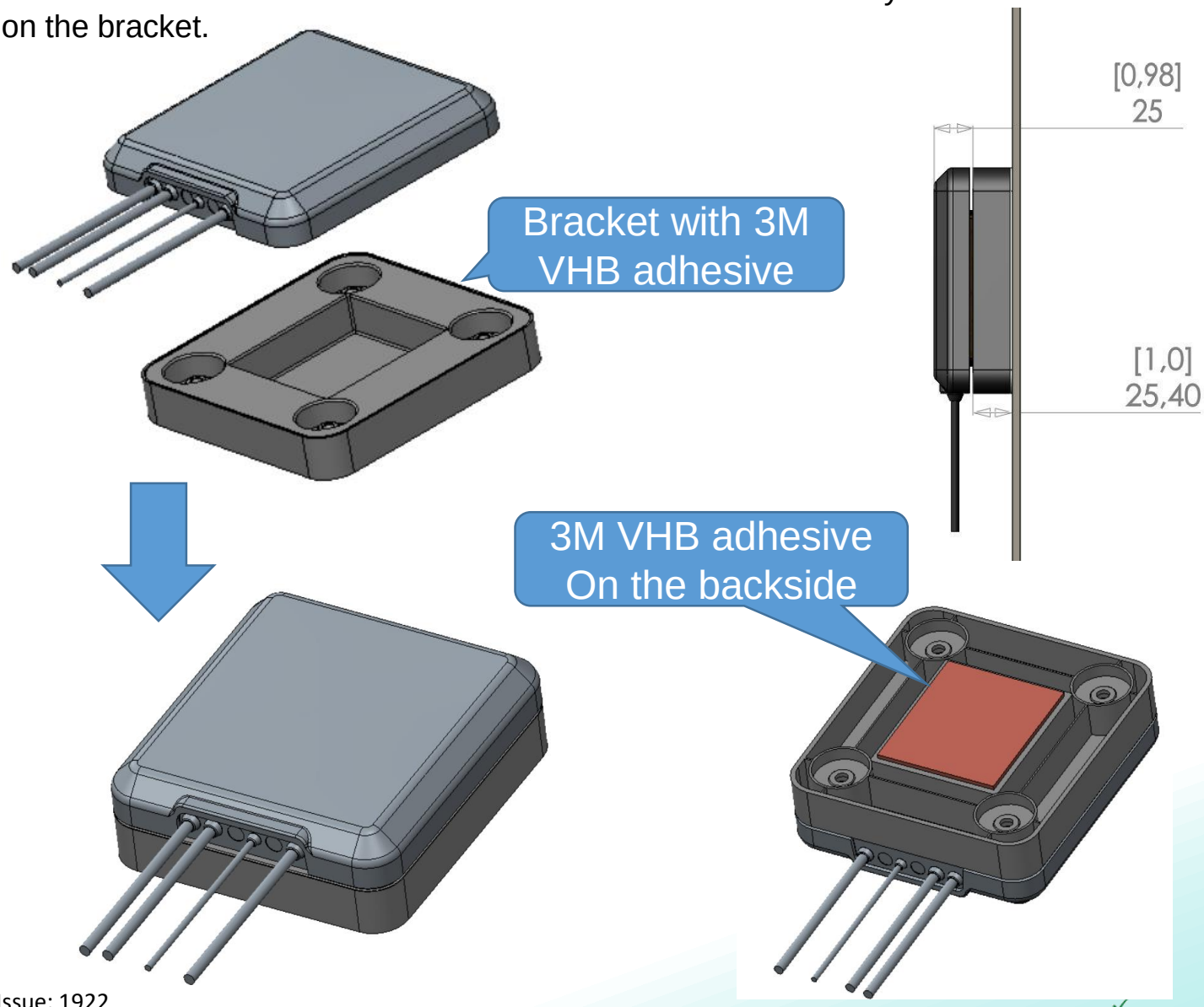
Series: Low Profile MB

PART NUMBER: LPMB40X

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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