

915/2400 MHz Weather-Proof Whip Antenna



AANE-WH-0145

Request Samples



Check Inventory



Ø8.8 x 77.0 mm

RoHS/RoHS II Compliant

MSL = N/A

Features

- 915/2400 MHz LPWA/ISM Antenna
- Peak Gain: 1.2/1.8 dBi
- High Efficiency Up to 72%
- Fixed Right-Angle Connector
- IP66 Rated and UV Resistant
- Fully Customizable Connectors

Applications

- LPWA/LoRa/SigFox Applications
- Bluetooth/BLE/Matter/Thread
- Intelligent Lighting
- Smart Metering Solutions
- Smart Irrigation Systems
- Home Automation and Fire Prevention
- Agriculture/Environment Sensing

Product Image



12117 Bee Caves Rd, Bldg-3, Suite 200 Bee
Cave, TX 78738
Phone: 512-371-6159 | Fax: 512-351-8858
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Electrical Specification

Parameter	Specification		Unit
Operating Frequency	902-928	2400-2483	MHz
VSWR (Typ.)	< 2.0		
Peak Gain	Free Space	-0.7	dBi
	On Metal	1.2	
Maximum Efficiency	Free Space	38.2	%
	On Metal	62.8	
Impedance	50		Ω
Polarization	Linear		
Radiation Pattern (Azimuth)	Omni-directional		
Input Power (Ambient 25°C)	5		W

Mechanical Specification

Parameter	Specification
Dimensions	Ø8.8 x 77.0 mm
Metal Plate Dimension	200 x 100 mm
Material	UV Resistant TPEE
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Monopole)
RF Connector ⁽¹⁾	SMA(M)

(1): Fully customizable RF Connectors

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating	IP66
RoHS Complaint	Yes



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Ordering Information

Part Number	Description	Connector Option
AANE-WH-0145-1	915/2400 MHz Weather-Proof Whip Antenna with SMA(M) Connector, IP66 Rated & UV-Resistant Housing	SMA(M)
AANE-WH-0145-2	915/2400 MHz Weather-Proof Whip Antenna with RP-SMA(M) Connector, and IP66 Rated & UV-Resistant Housing	RP-SMA(M)

Note: Different connector configurations that are not listed may be available upon request via [Abracon online support](#)



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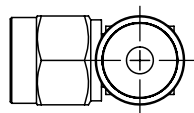


Ø8.8 x 77.0 mm

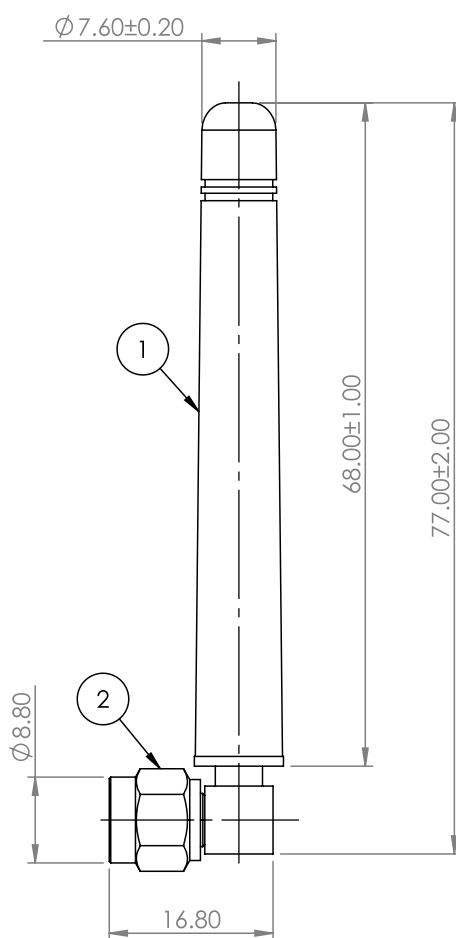
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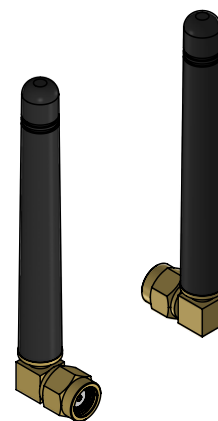
Product Dimensions



TOP VIEW



FRONT VIEW



Unit : mm

No.	Name	Material	Finish
1	Body	TPEE	Black
2	Connector	SMA(M)	Au-Plated



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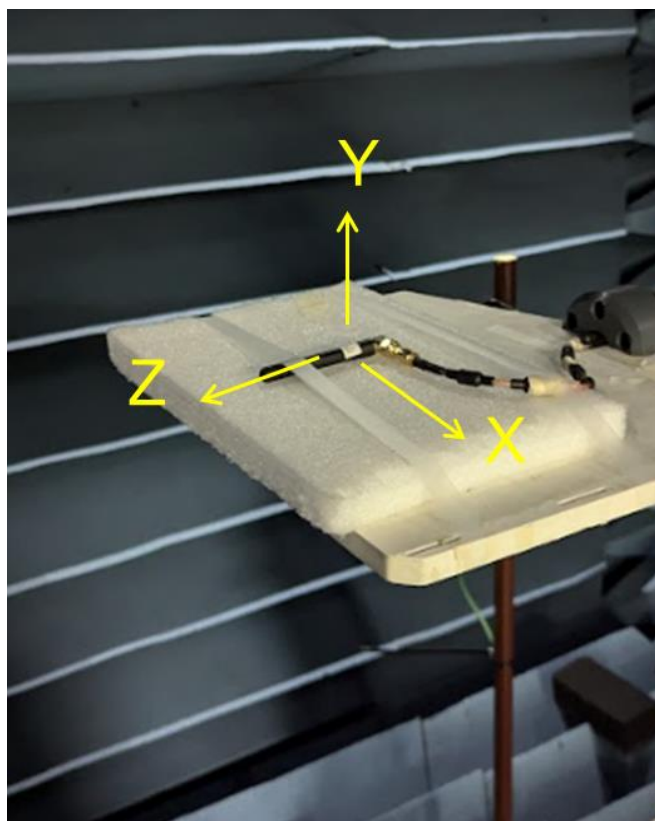


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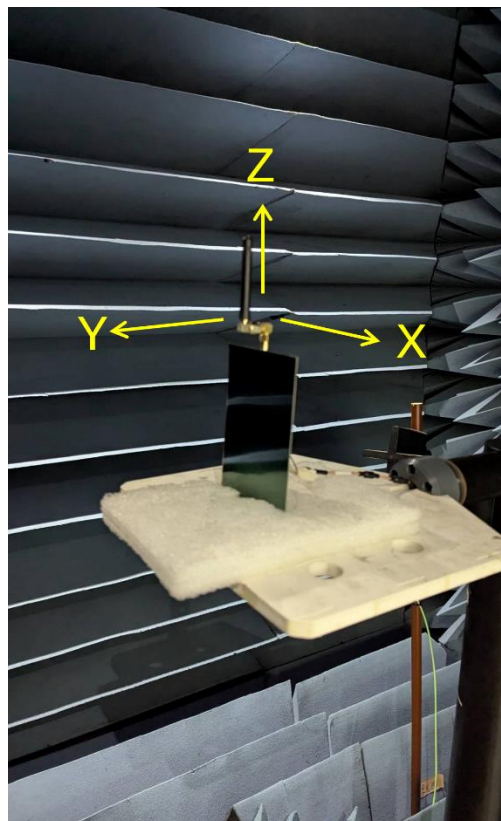
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Measurement Setup



Free Space



On Metal

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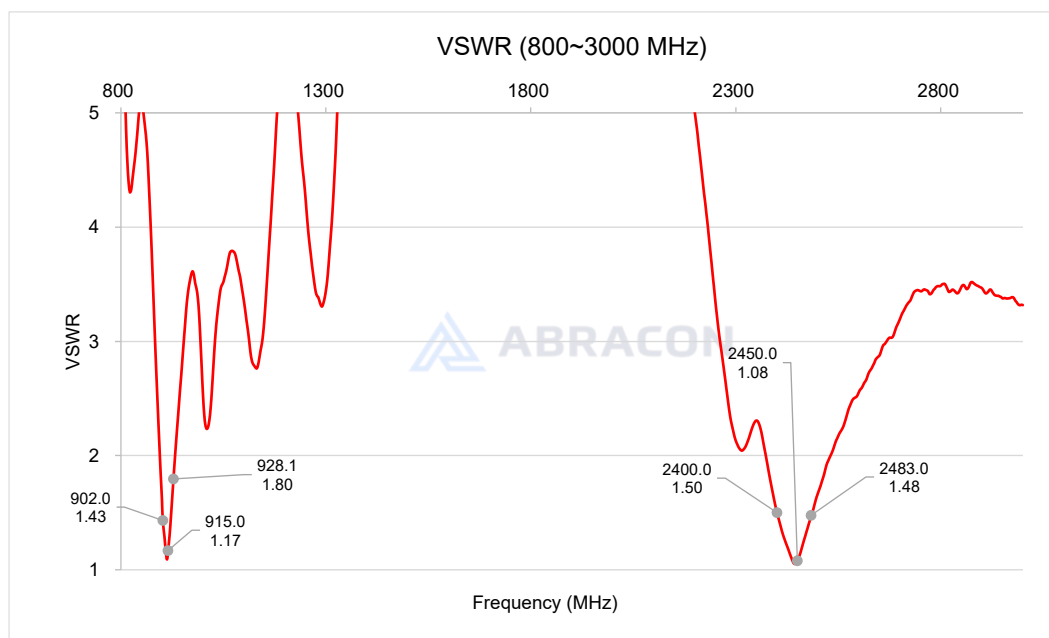
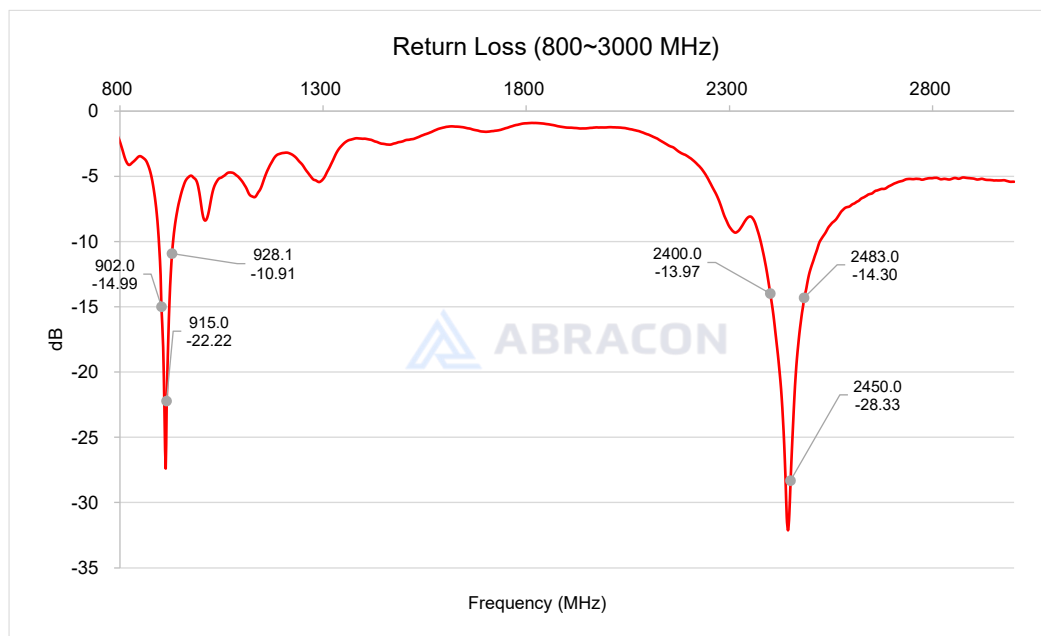


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Reflection Characteristics – Return Loss & VSWR (Free Space)



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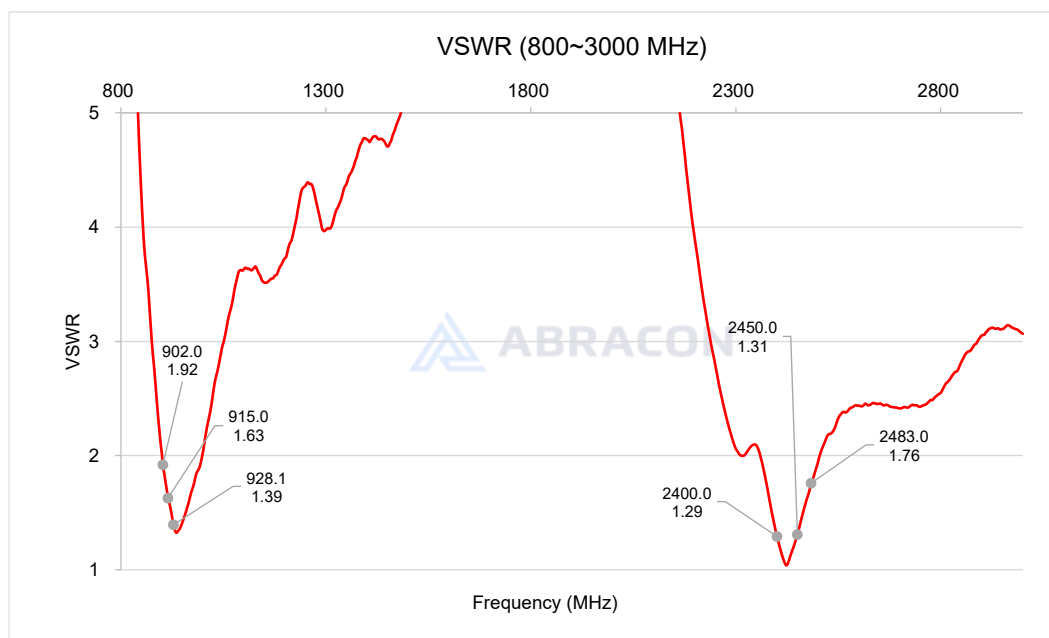
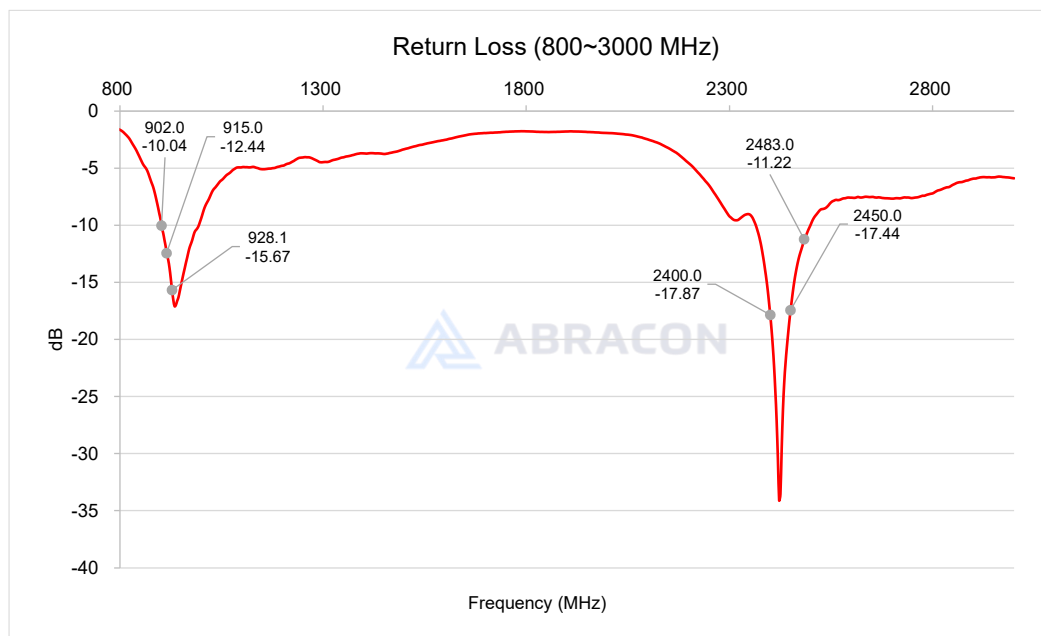


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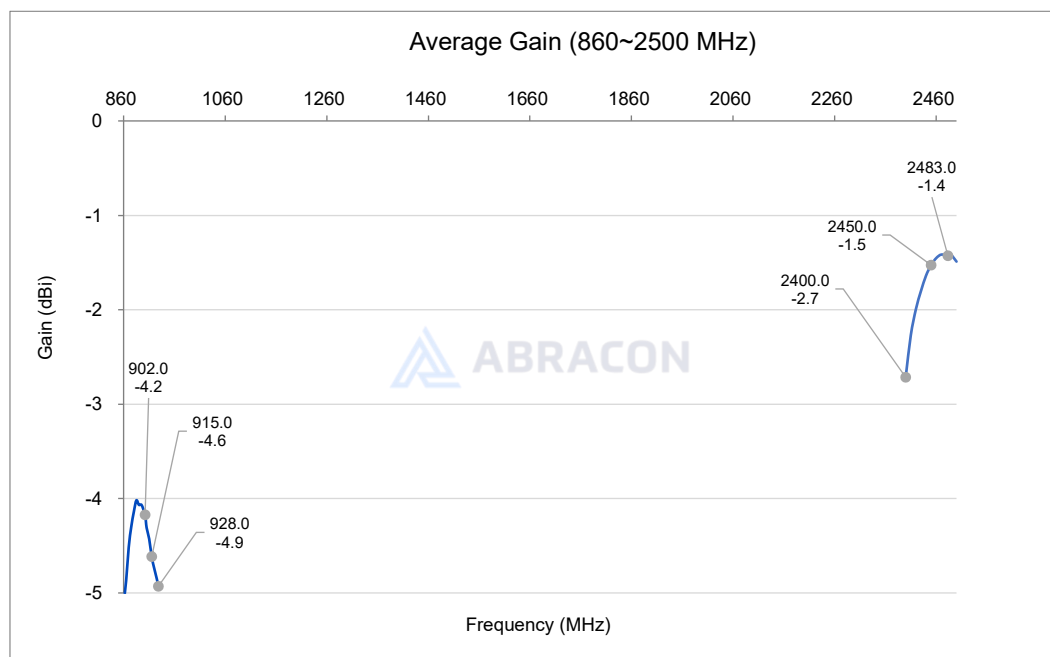
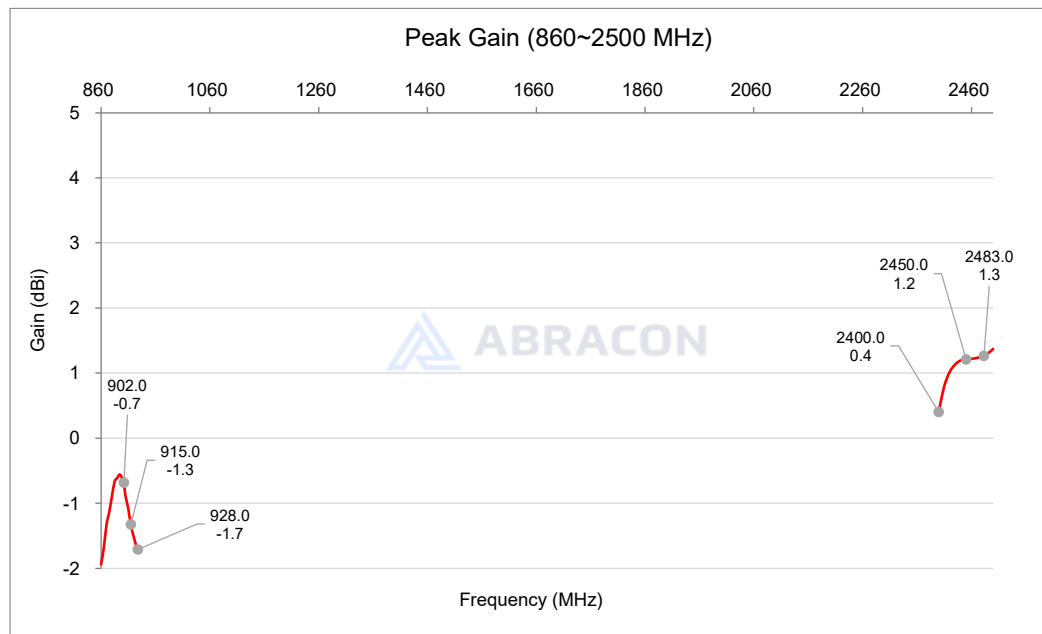


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Radiation Characteristics – Peak Gain & Average Gain (Free Space)



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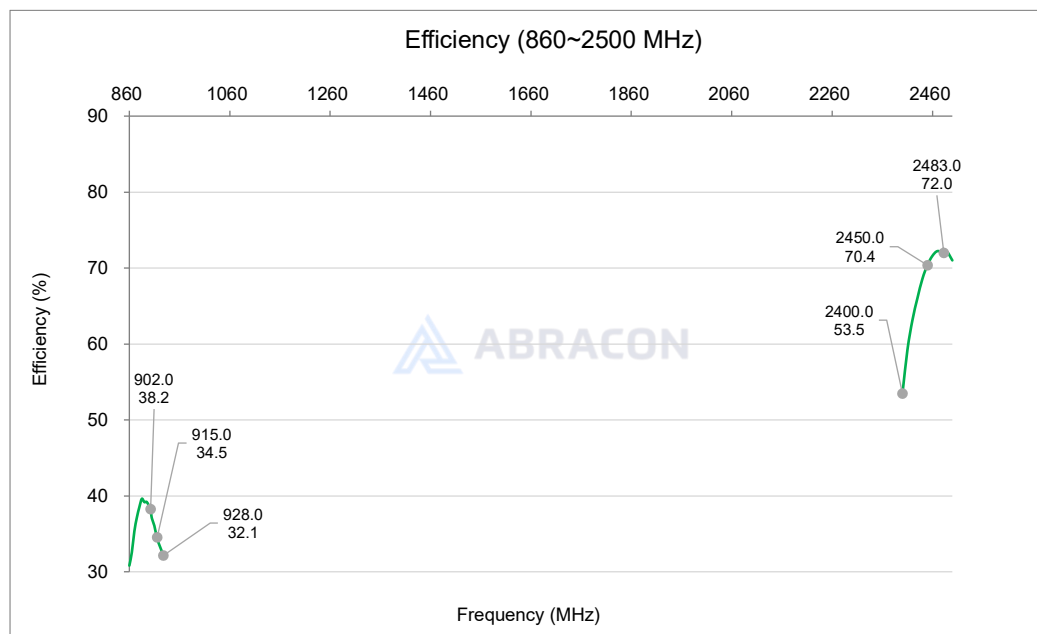


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Radiation Characteristics – Total Efficiency (%) (Free Space)



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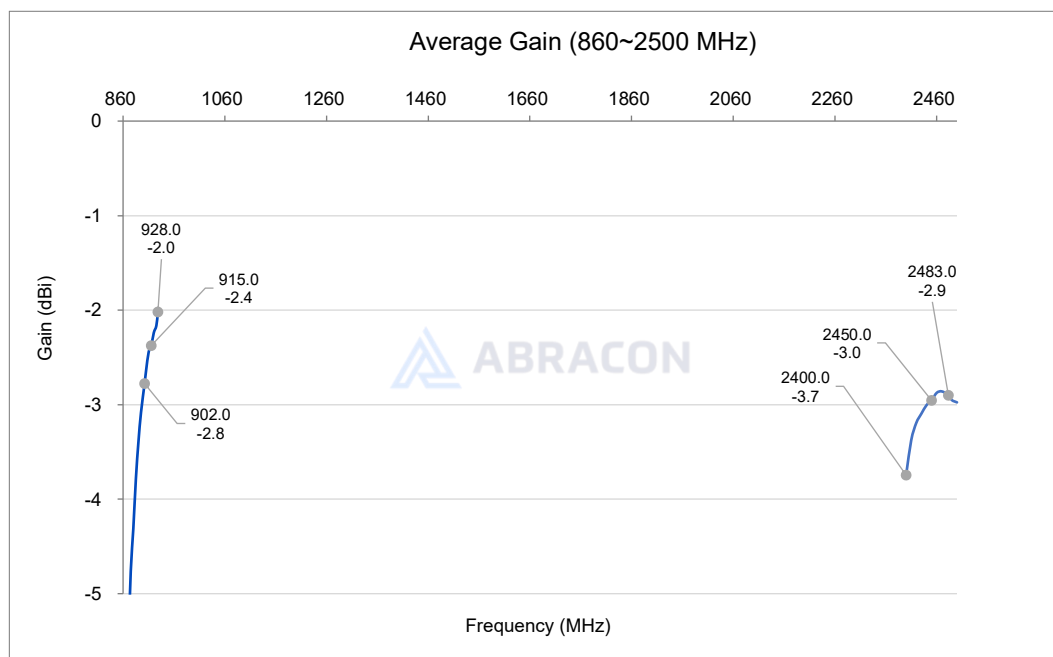
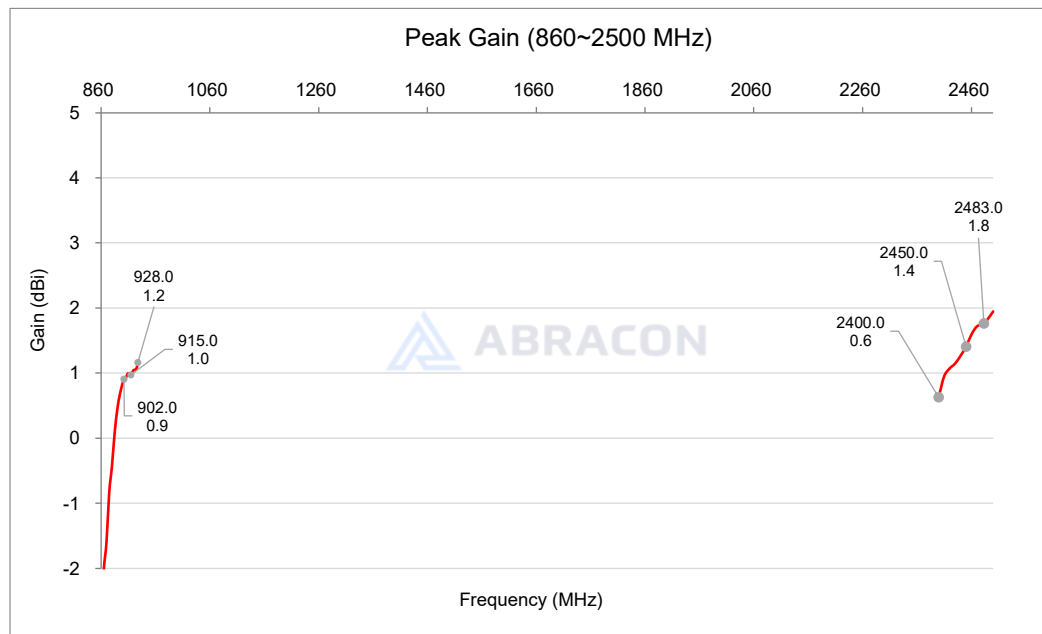


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Radiation Characteristics – Peak Gain & Average Gain (On Metal)



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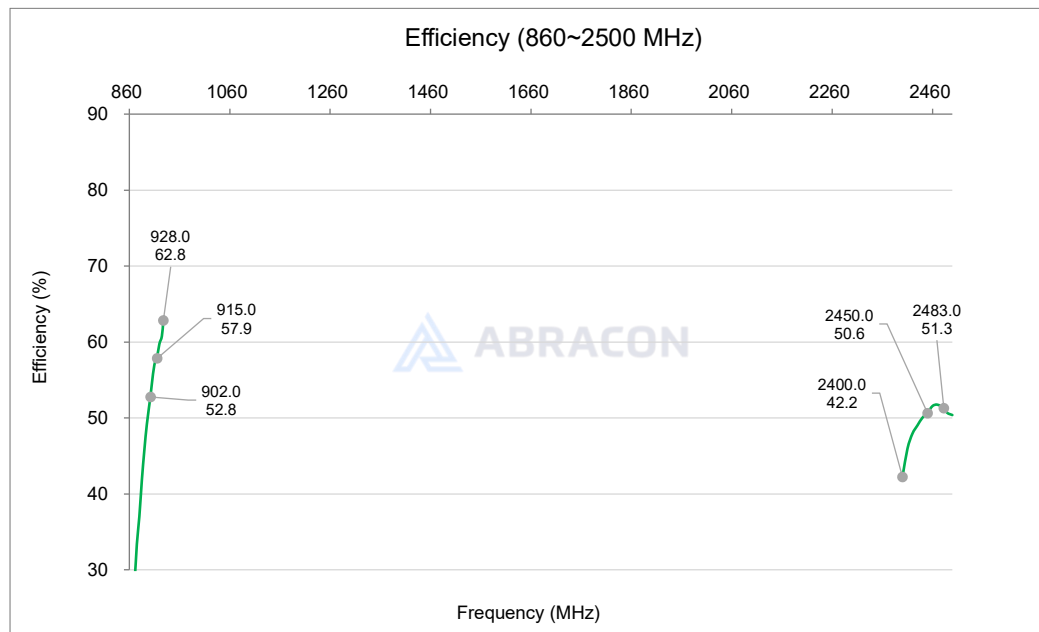


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Radiation Characteristics – Total Efficiency (%) (On Metal)



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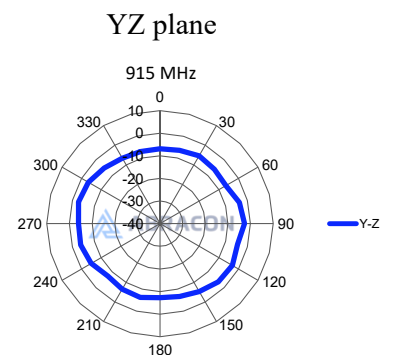
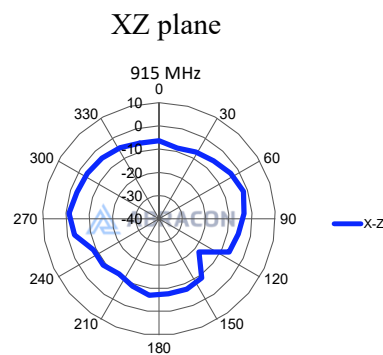
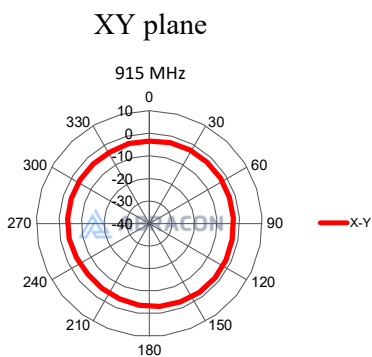
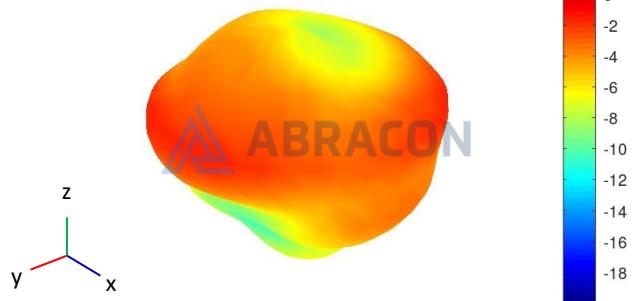
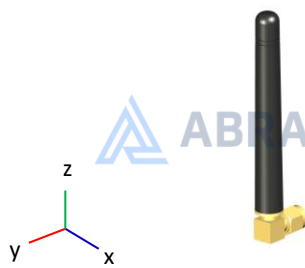
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Radiation Characteristics – 3D & 2D Pattern (Free Space)

915MHz



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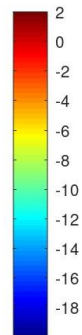
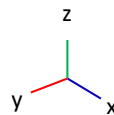
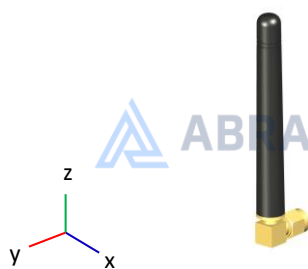


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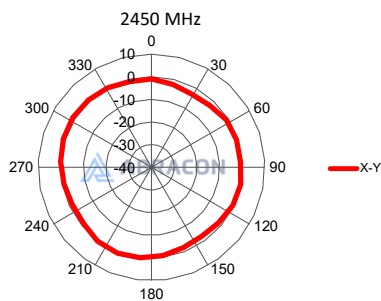
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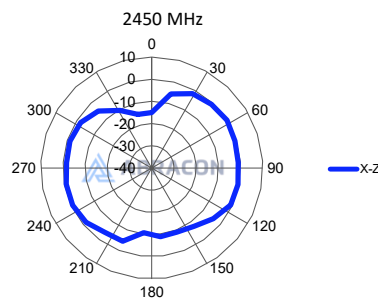
2450MHz



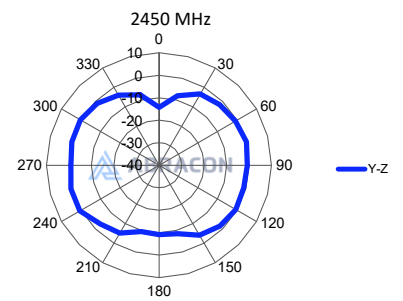
XY plane



XZ plane



YZ plane



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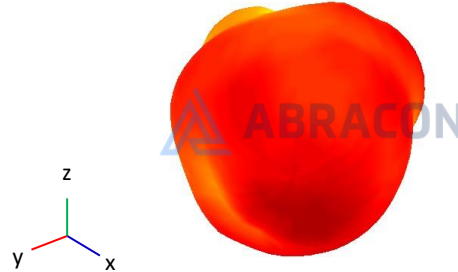
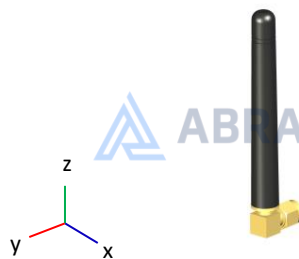
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RoHS/RoHS II Compliant

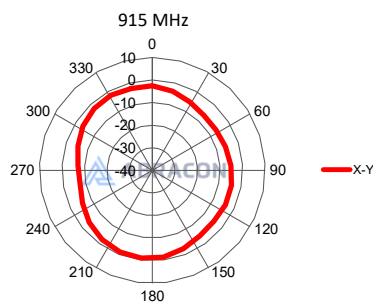
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Radiation Characteristics – 3D & 2D Pattern (On Metal)

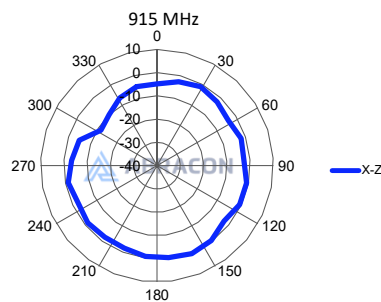
915MHz



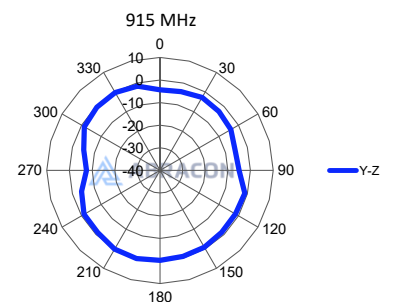
XY plane



XZ plane



YZ plane



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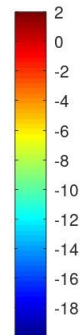
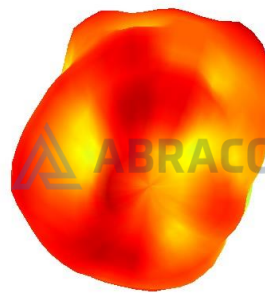
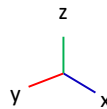
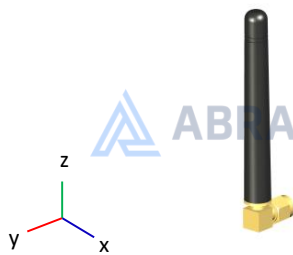


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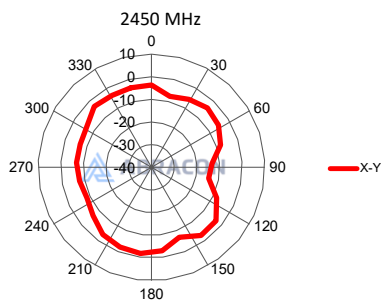
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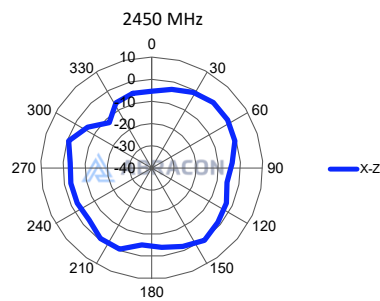
2450MHz



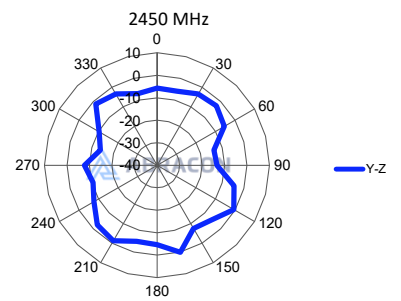
XY plane



XZ plane



YZ plane



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