

Description: 4.9-7.125GHz PCB antenna

Series: Internal Antenna

PART NUMBER: W3919XXXX



Features:

- 4900-7125 MHz
- Size 15.9 X 7.6 X 0.45 mm
- Efficiency > 60%
- VSWR < 2
- Nominal impedance 50 Ω
- Cable and connector can be customized

Applications:



- WiFi 6E, 802.11ax
- DSRC
- ISM band radios
- IoT, M2M

All dimensions are in mm / inches

Issue: 2020

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

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Pulse/Larsen Antennas
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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



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This document covers all product variants of the following product family:

W3919B0050	50mm 1.13mm OD cable	U.FL compatible connector
W3919B0100	100mm 1.13mm OD cable	U.FL compatible connector

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ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole
Frequency	4900-7125MHz
Nominal Impedance	50 Ω
Return Loss	4900-7125MHz<-9db
Radiation Pattern	Omni
Gain	3+/-1dBi@4900-7125MHz
Efficiency	55%@4900-7125MHz
Polarization	Linear
Power Withstanding	5W

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MECHANICAL SPECIFICATIONS

Radiator material	FR4 PCB
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.45 mm
PCB size(L X W X T)	15.9 X 7.6 X 0.45 mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
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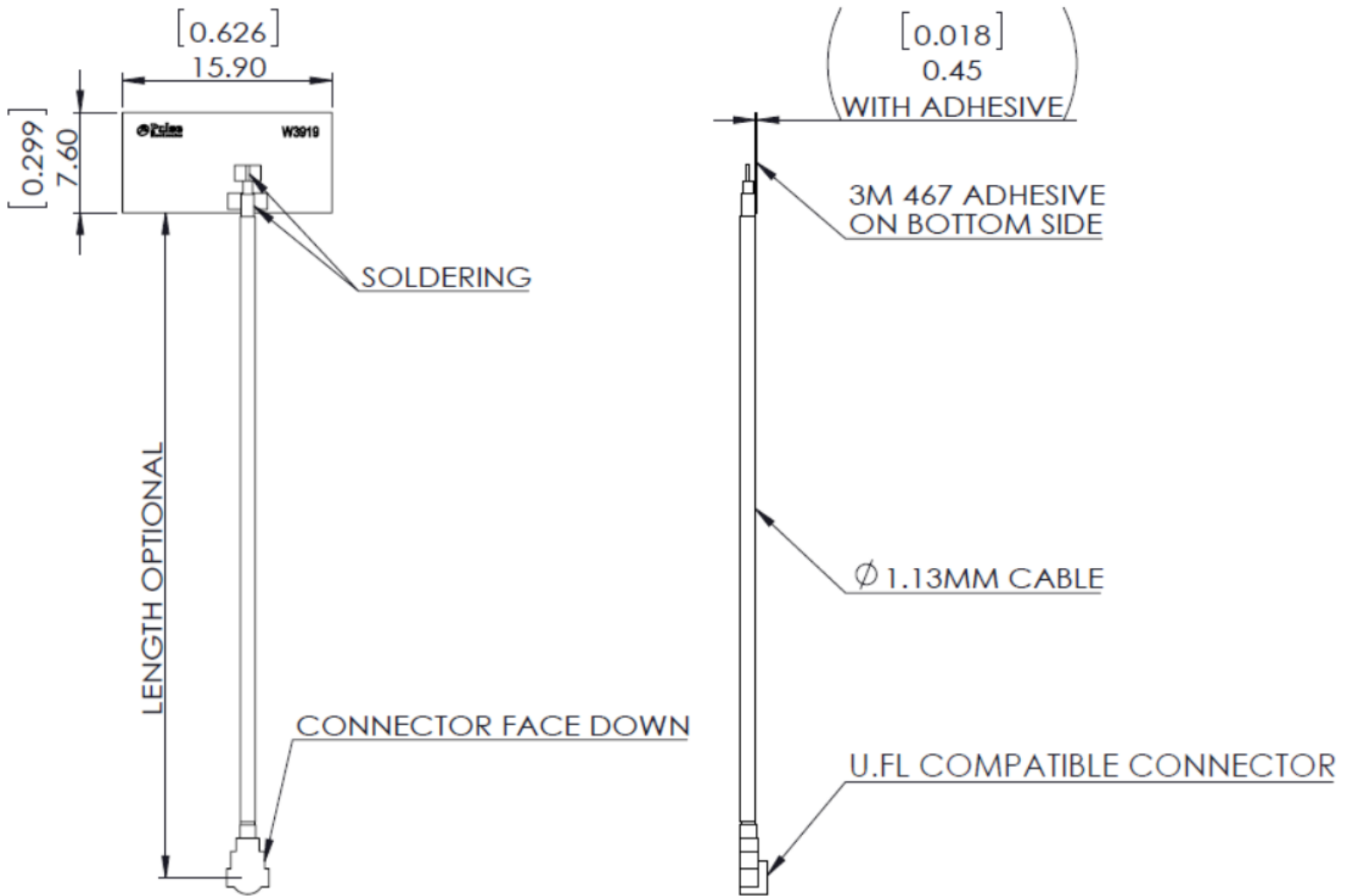
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MECHANICAL DRAWING



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CHARTS

() All RF parameters measured on 2mm thick PC plate*

Test Setup



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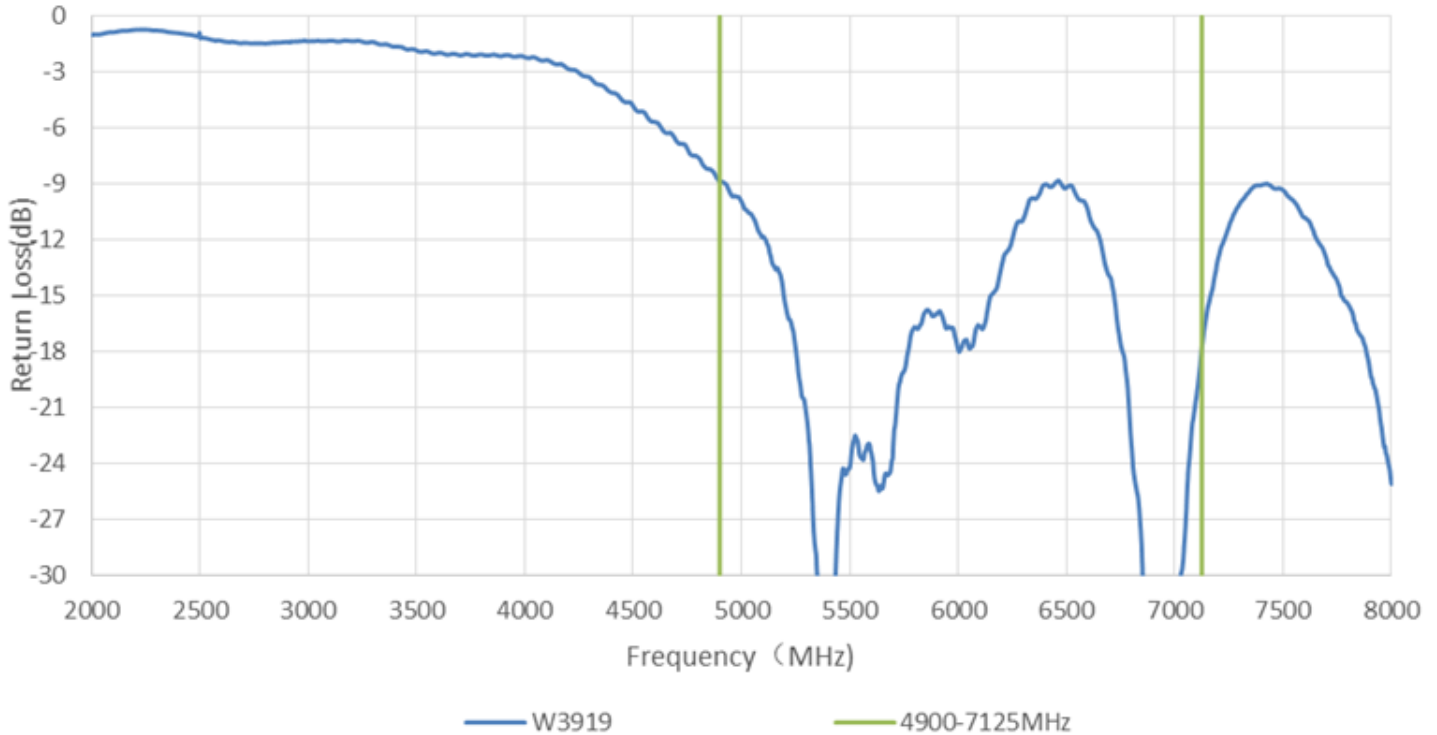
CHARTS

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Return Loss

Return Loss vs Frequency

Measured at Pulse Suzhou Chamber -20200407



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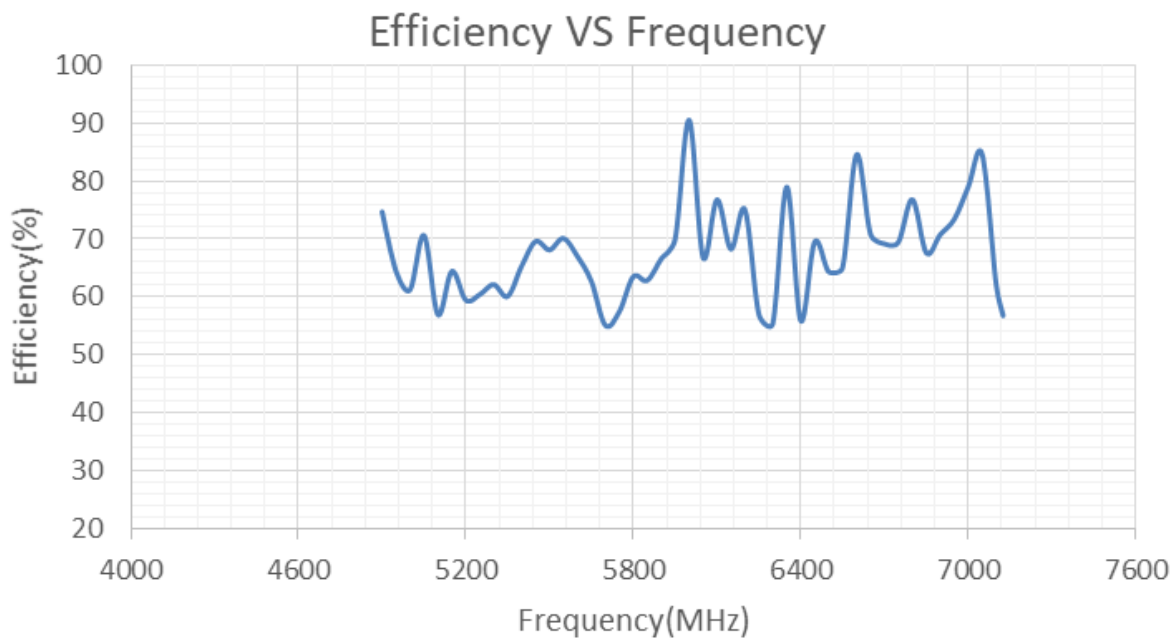
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Efficiency



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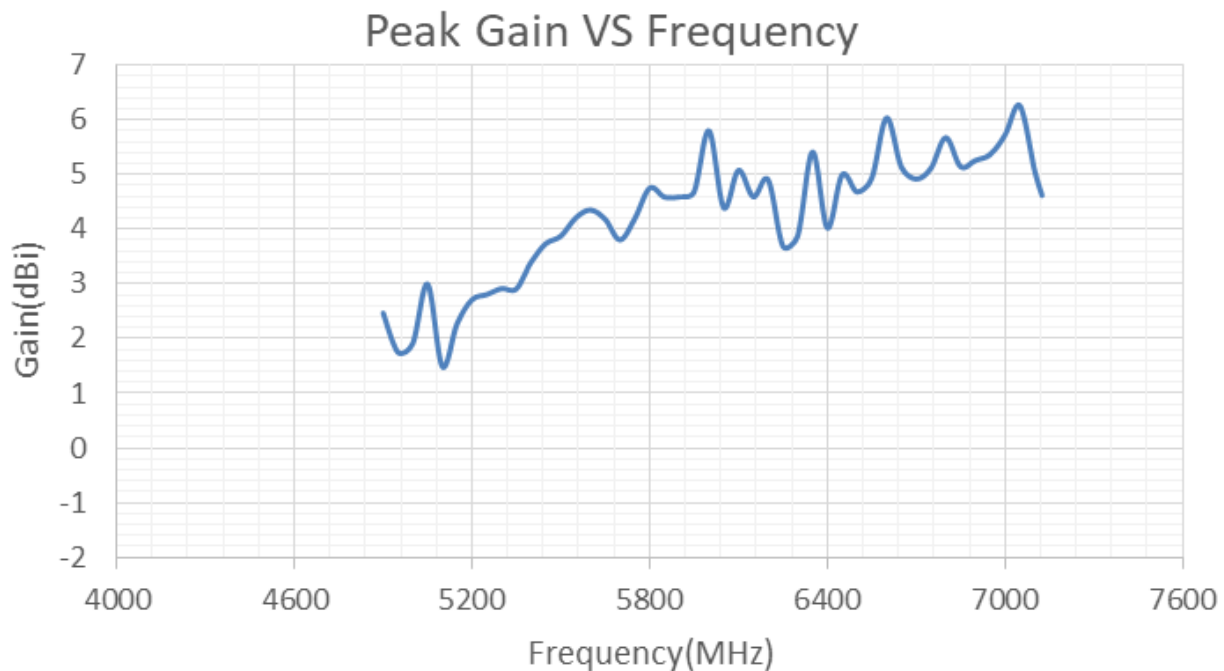
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Peak Gain



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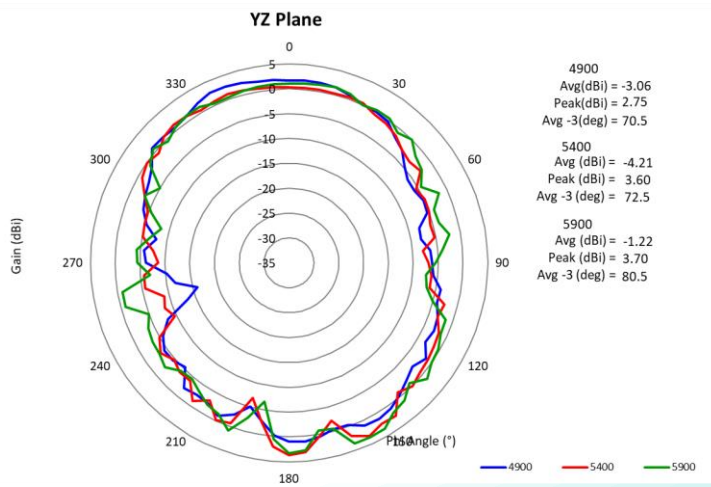
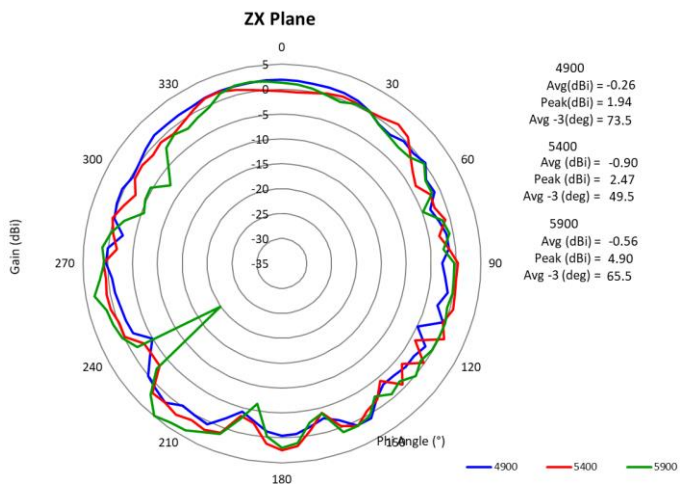
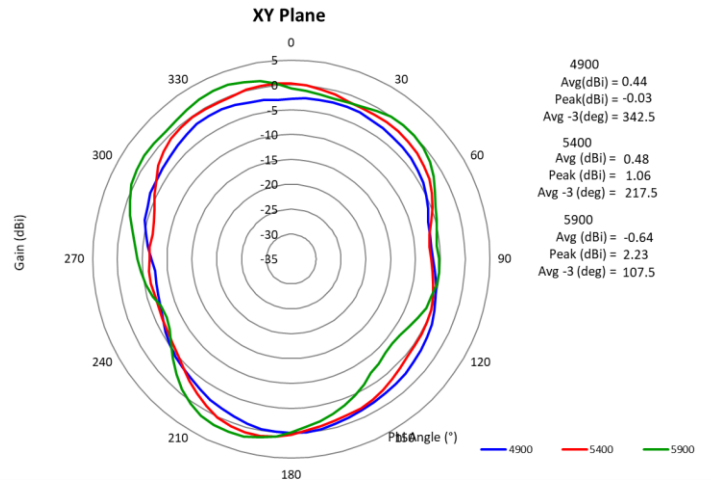
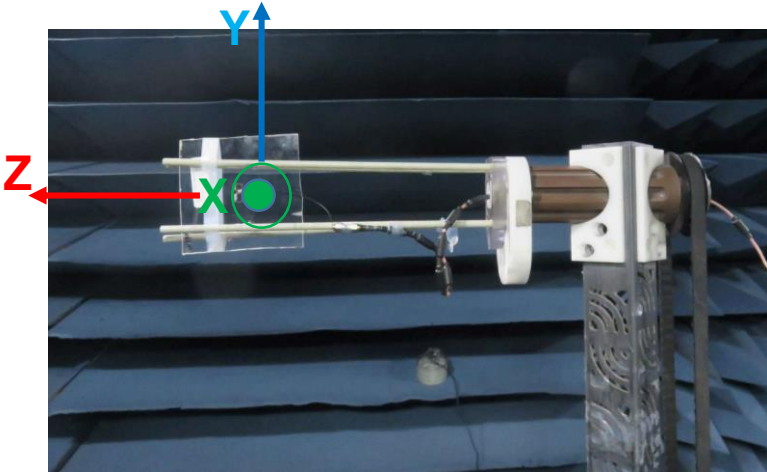
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CHARTS

Radiation Patterns 4900-5900MHz



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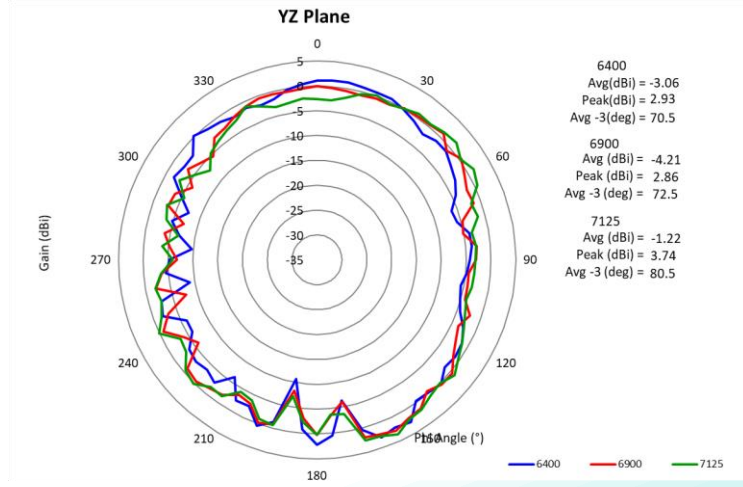
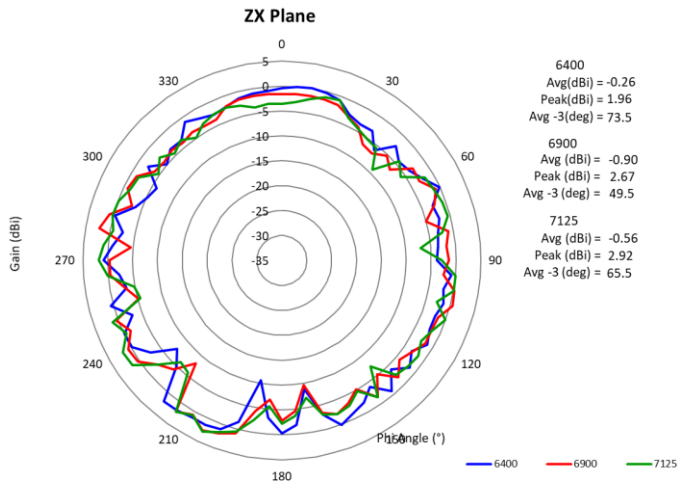
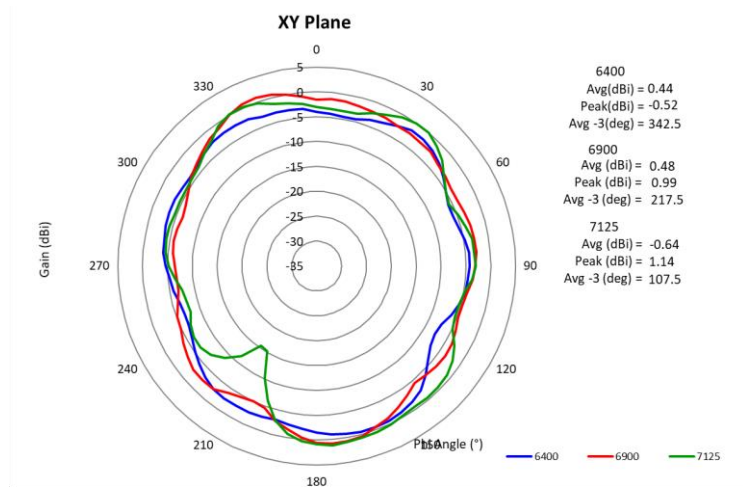
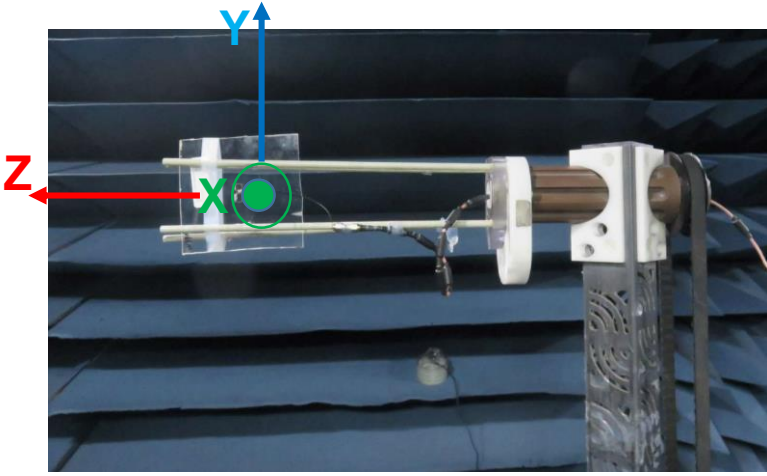
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CHARTS

Radiation Patterns 6000-7125MHz



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PACKAGING

10PCS/PE bag
10 PE bag/foam bag
50 foam bag/ carton box

Total 5000PCS/Carton box



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