

PSA

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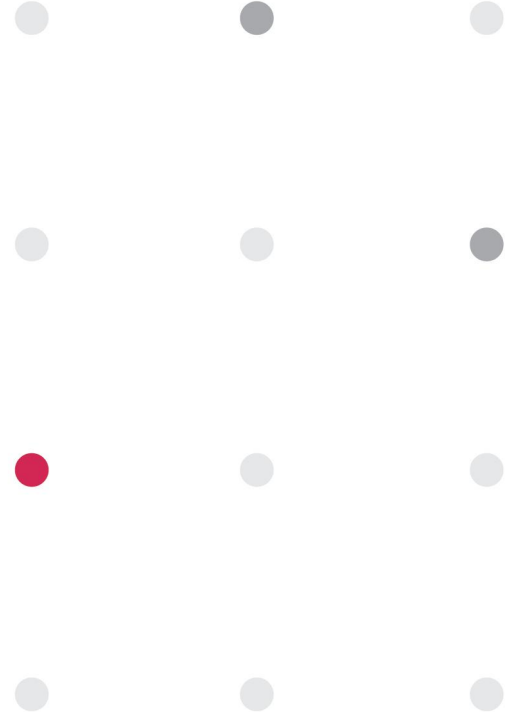
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Antenna Name : PLX110

Presented by

冯立翔

2024/12/17



Version	Date	Description	Author
V01	2024/12/17	New Release	冯立翔

OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 S-Parameter

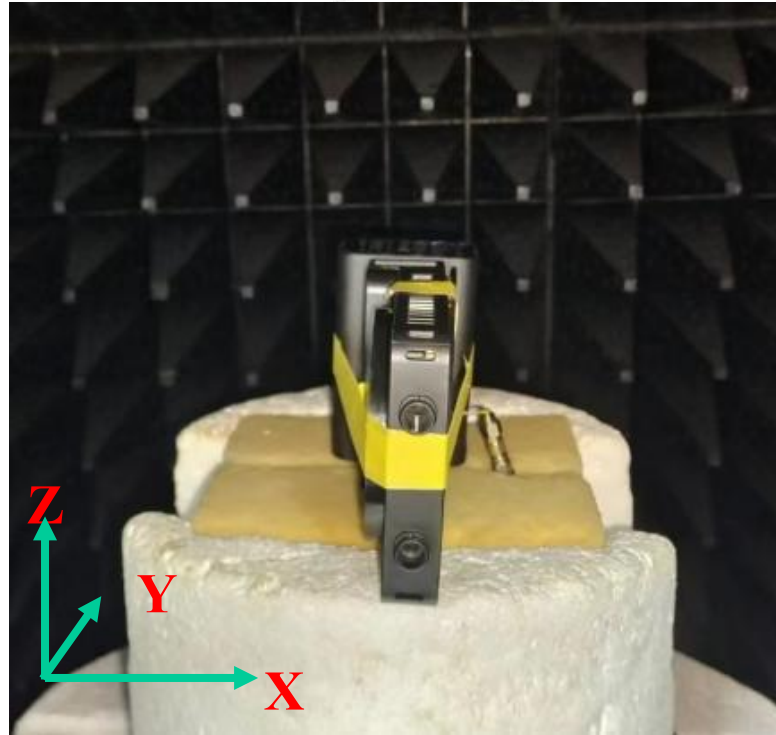
2.2 Antenna Efficiency and Peak Gain

2.3 3 views of antenna & 2D Radiation Patterns

3. Summary

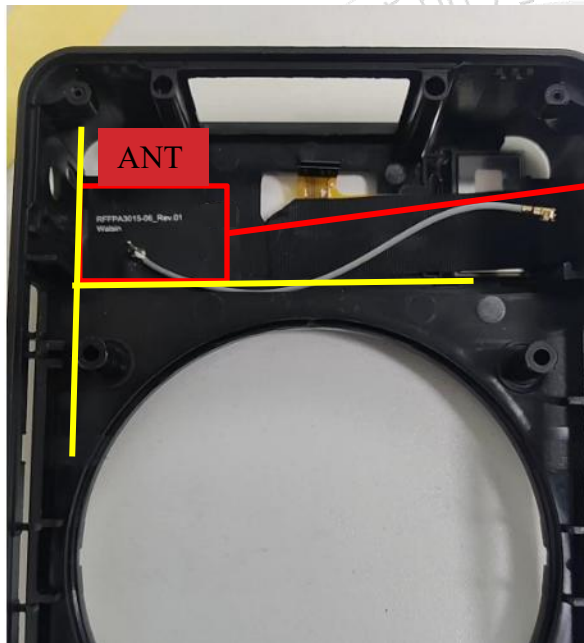
1. Measurement Information

1.1 Experimental Setup



1. Measurement Information

1.2 Antenna Solution Detail

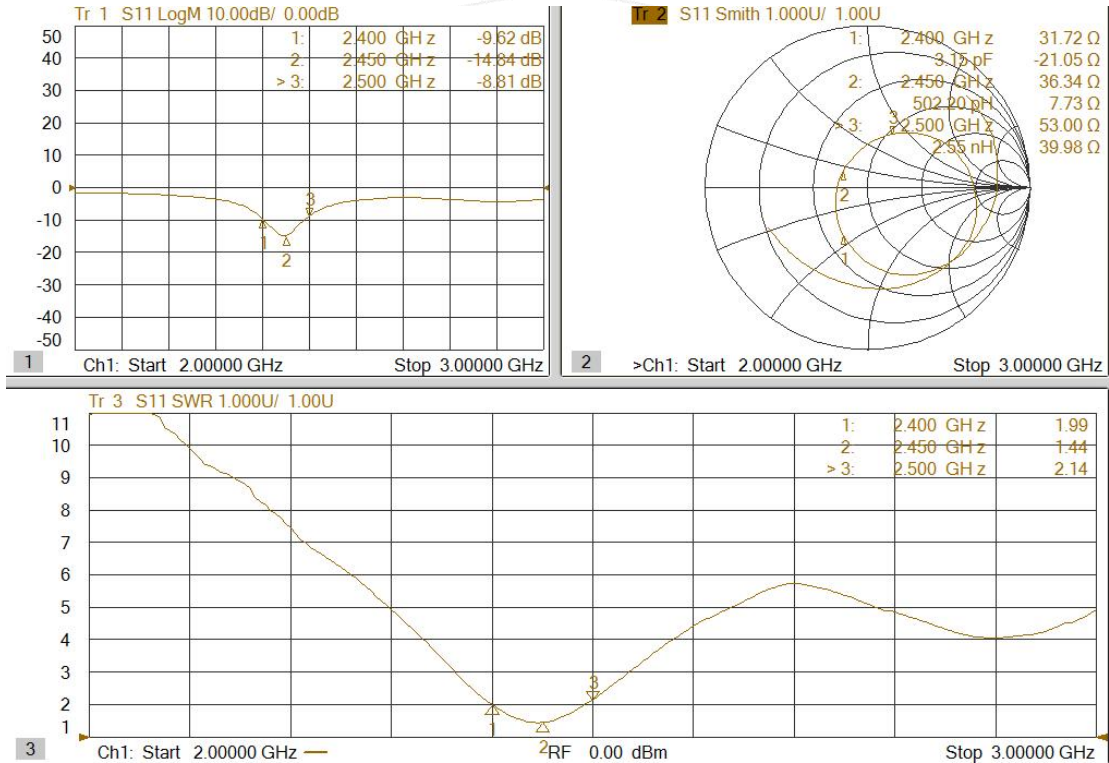


Antenna position: It is located on the side of the machine and pasted along the two yellow lines

Antenna size: 15*30mm FPC
cable length: 80mm, welded 1.13 normal wire, first-generation terminal head
Antenna frequency : 2400-2500MHz

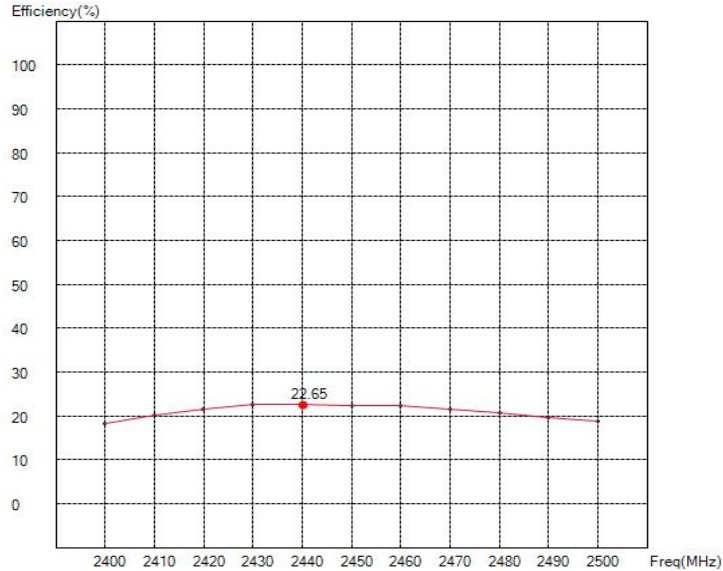
2. Antenna Characteristics

2.1 S-Parameter

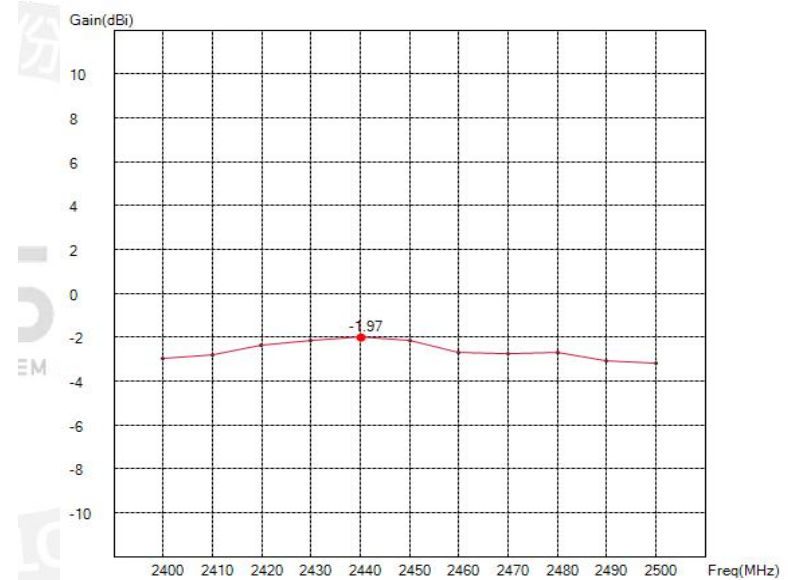


2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2440MHz : 22.65%



Maximum Peak Gain at 2440MHz : -1.97dBi

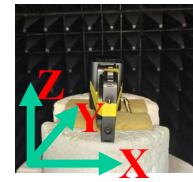
2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

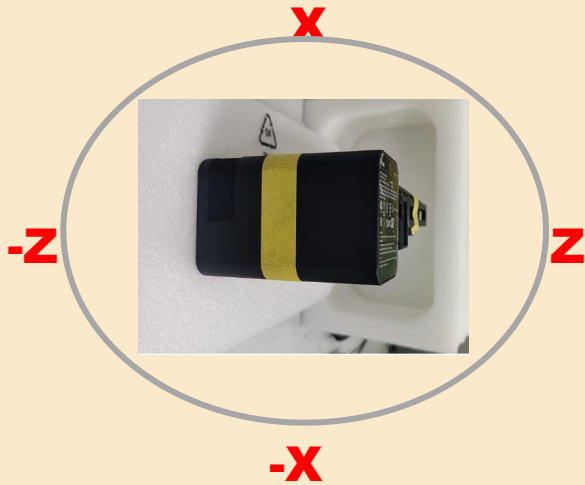
	ANT	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	18.24	-2.97
2450	22.34	-2.15
2500	18.84	-3.17

2. Antenna Characteristics

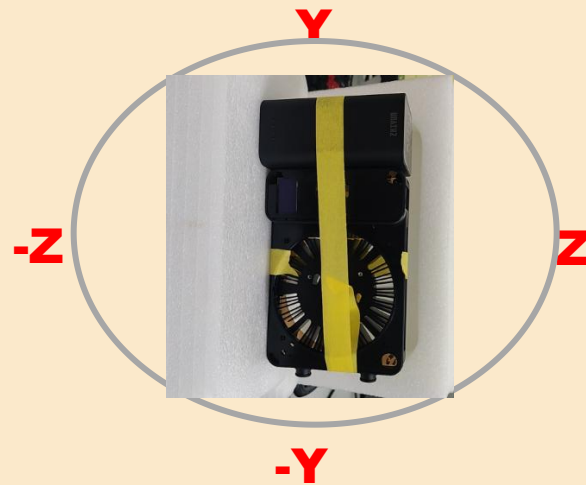
2.3 3 views of antenna



X-Z plane



Y-Z plane

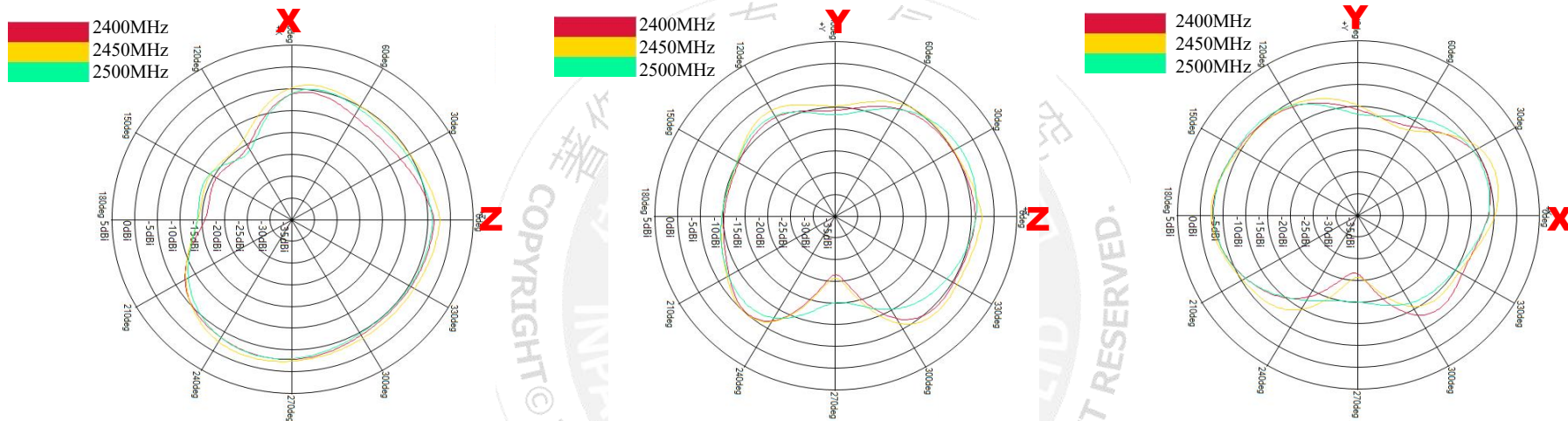


X-Y plane



2. Antenna Characteristics

2.3 2D Radiation Patterns

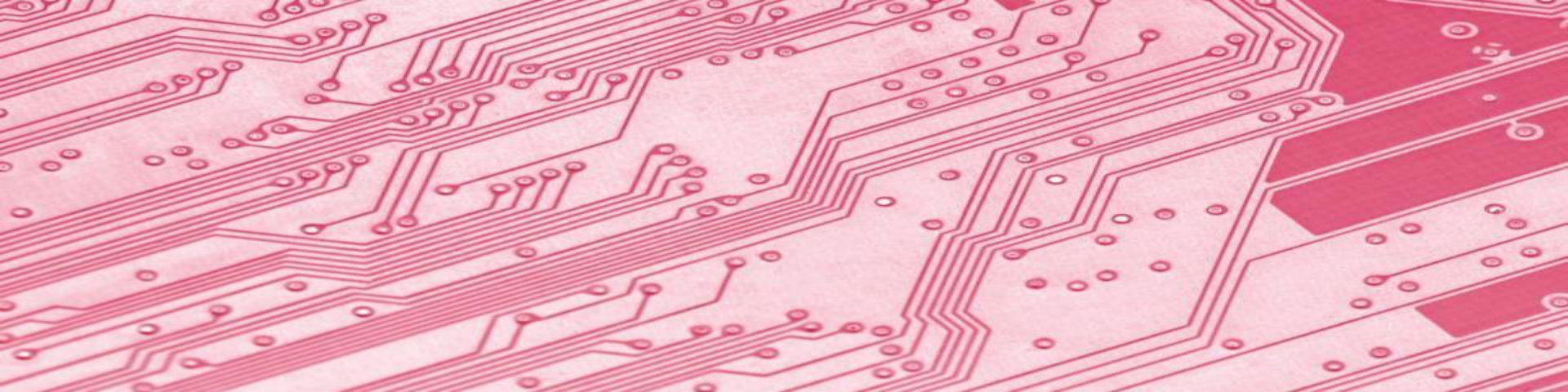


Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-2.97	-5.14	-3.95	-6.57	-2.97	-7.04
2450	-2.15	-3.99	-2.52	-5.52	-2.57	-6.56
2500	-3.17	-5.11	-3.21	-6.58	-3.17	-7.09

3. Summary

- The performance of antennas is shown in table

	ANT
Maximum Efficiency (%)	22.65
Maximum Gain (dBi)	-1.97



Title for Image (above image could be replaced)

Content Details

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Thank you

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