

佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.

PSA

PASSIVE SYSTEM ALLIANCE INPAQ TECHNOLOGY CO., LTD.

東聚 Yara_VR Controller (R)

Presented by

Gary

2023/04/27



PASSIVE SYSTEM ALLIANCE

Version	Date	Description	Author
V01	2022/06/23	Simulation	Monkey Chang
V02	2022/11/09	Antenna Simulation Report	Gary
V03	2022/12/01	Left hand & Right antenna measurement	Gary
V04	2022/12/15	Optimize Left hand antenna measurement	Gary
V05	2023/04/24	Left hand EVT antenna measurement	Gary
V06	2023/04/27	Right hand EVT antenna measurement	Gary

Test 2 東聚 Yara_VR Controller (R) Optimization



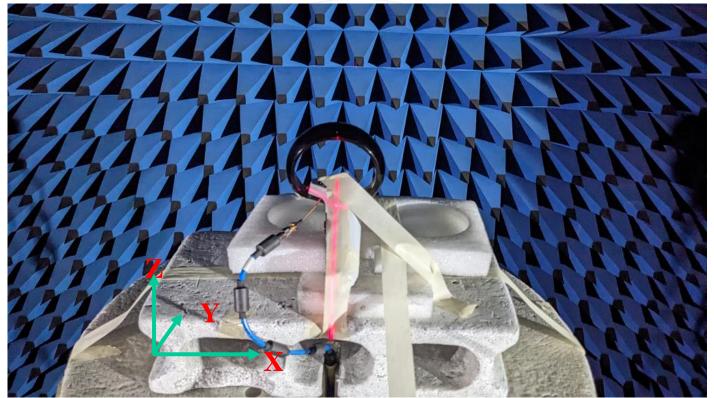
OUTLINE

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1. Measurement Information

1.1 Experimental Setup







1. Measurement Information

1.2 Antenna Solution Detail

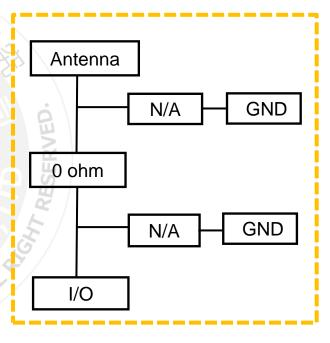
WIFI@2G (PIFA)





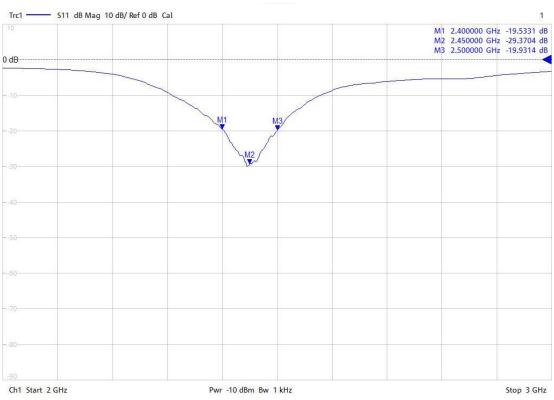


Matching values



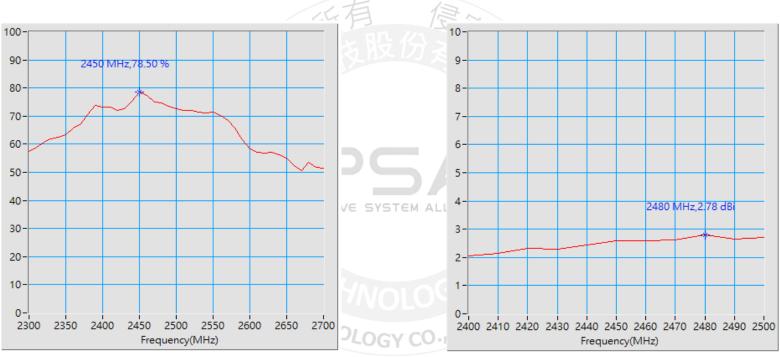
WIFI@2G

2.1 S-Parameter



WIFI@2G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2450 MHz: 78.5 %

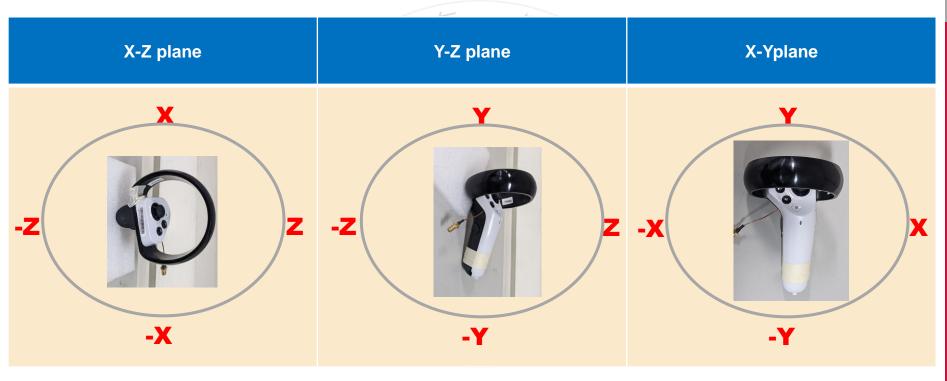
Maximum Peak Gain at 2480 MHz: 2.78 dBi



2.2 Antenna Efficiency and Peak Gain

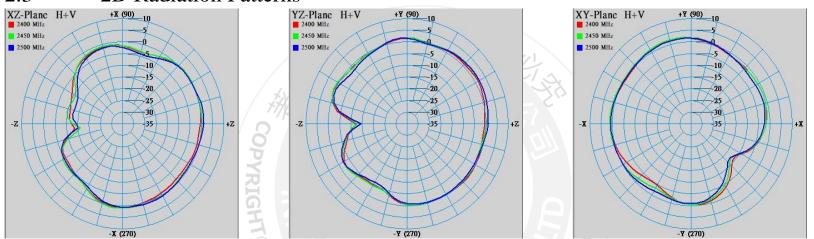
, KNY	WIFI@2G		
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)	
2400	73.29	2.05	
2450	78.50	2.59	
2500	72.55	2.72	

2.3 3 views of antenna



WIFI@2G

2.3 2D Radiation Patterns



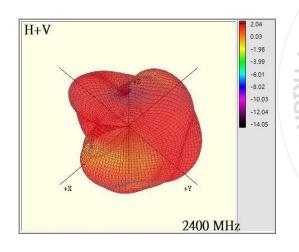
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	0.82	-1.87	1.71	-0.52	2.04	-0.90
2450	1.20	-1.44	VOLO199/ CO-1	-0.28	2.17	-0.60
2500	1.25	-1.70	2.19	-0.52	1.77	-0.88

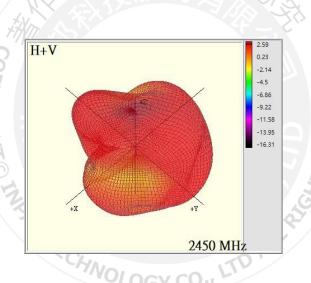
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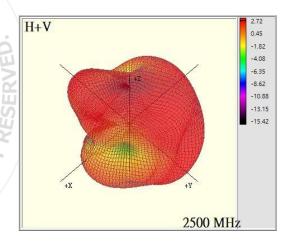


WIFI@2G

2.3 3D Radiation Patterns







3. Summary

• The performance of antennas is shown in table

Right Land	Origin	Optimization	
Maximum Efficiency (%)	72.27	78.5	
Maximum Gain (dBi)	1.68	2.78	



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