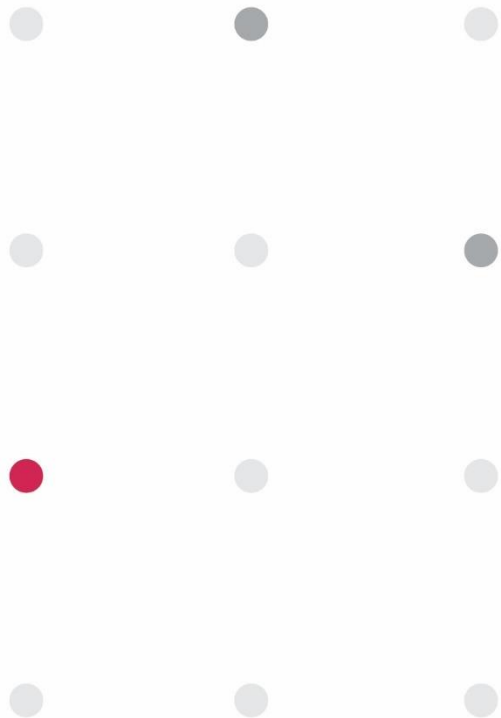


PSA

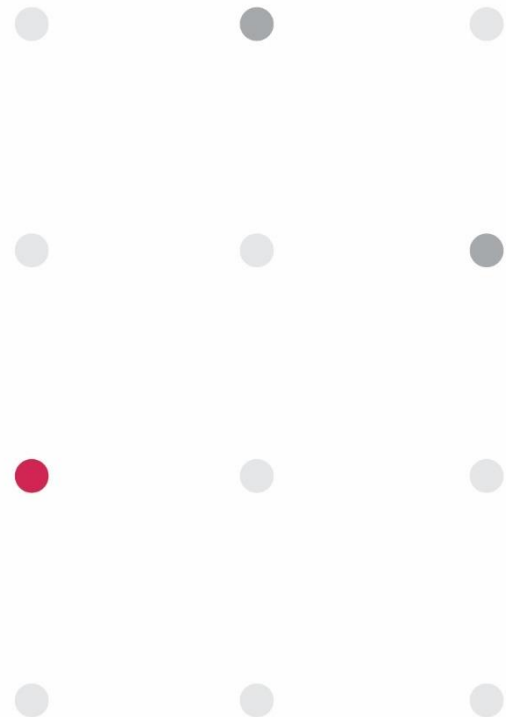
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



東聚 Yara_VR Controller (L)

Presented by

Gary

2023/04/24



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

Test 1

東聚 Yara_VR Controller (L)



OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 S-Parameter

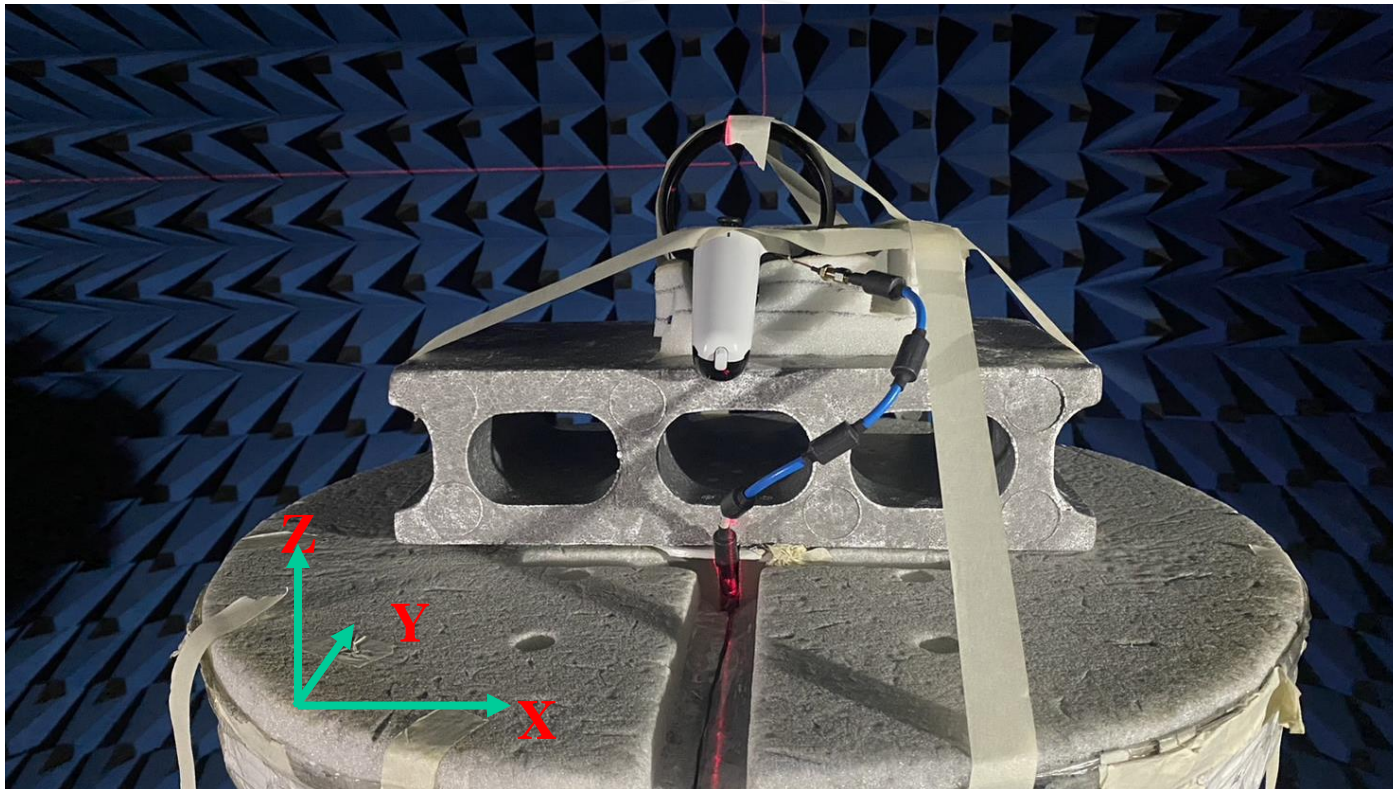
2.2 Antenna Efficiency and Peak Gain

2.3 3 views of antenna & 2D Radiation Patterns & 3D Radiation Patterns

3. Summary

1. Measurement Information

1.1 Experimental Setup



1. Measurement Information

1.2 Antenna Solution Detail

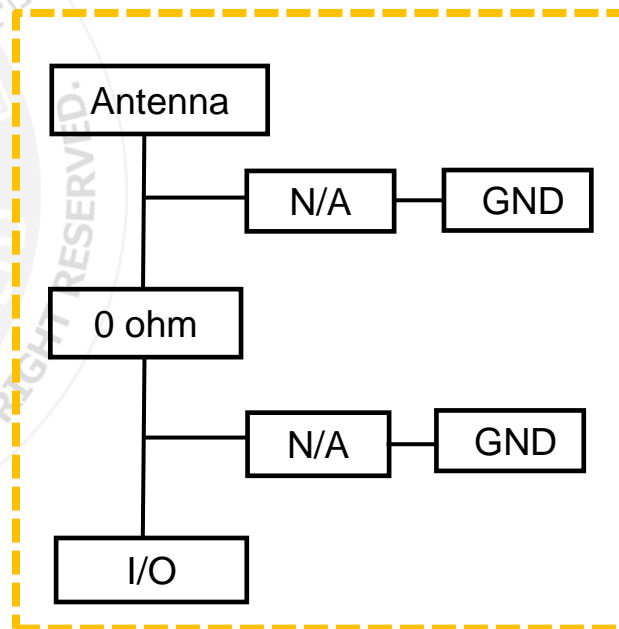
WIFI@2G (PIFA)



WIFI@2G (PIFA)



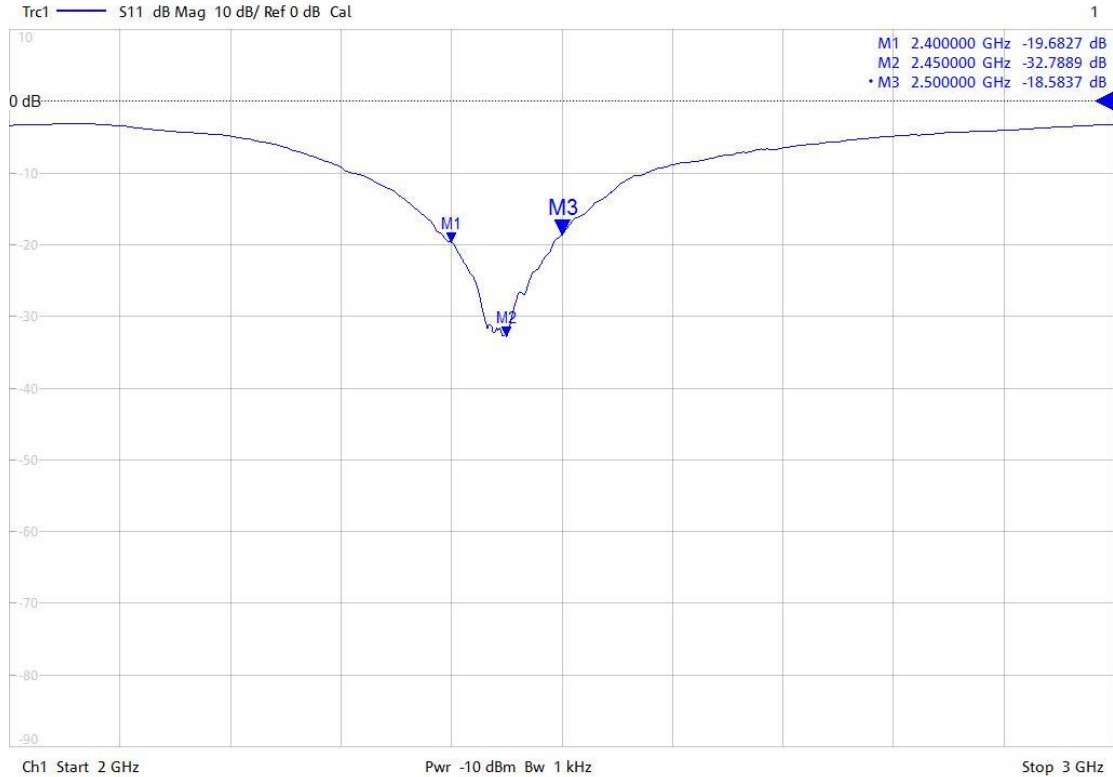
Matching values



2. Antenna Characteristics

WIFI@2G

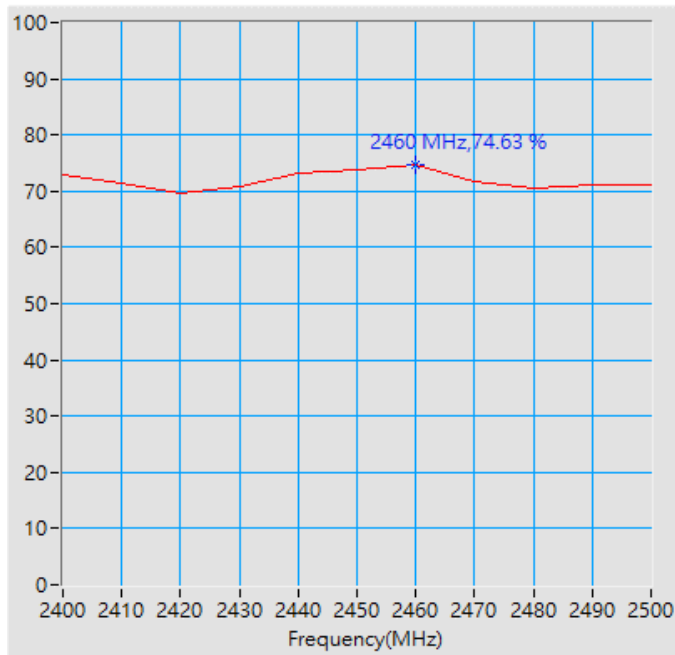
2.1 S-Parameter



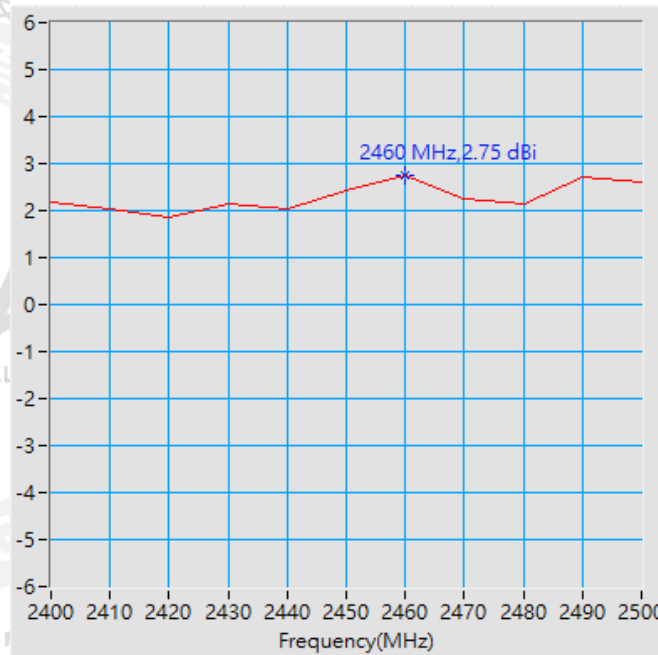
2. Antenna Characteristics

WIFI@2G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2460 MHz : 74.63 %



Maximum Peak Gain at 2460 MHz : 2.75 dBi

2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

	WIFI@2G	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	72.91	2.18
2450	73.92	2.41
2500	71.11	2.62

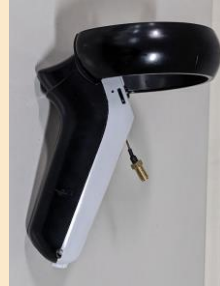
2. Antenna Characteristics

2.3 3 views of antenna

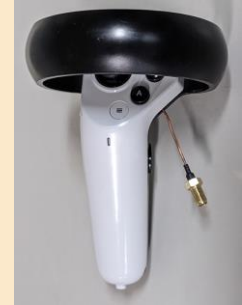
X-Z plane



Y-Z plane



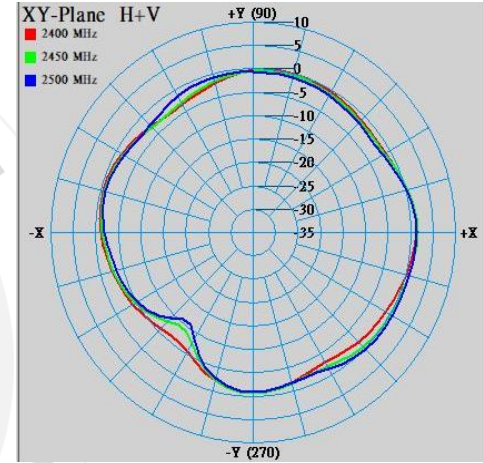
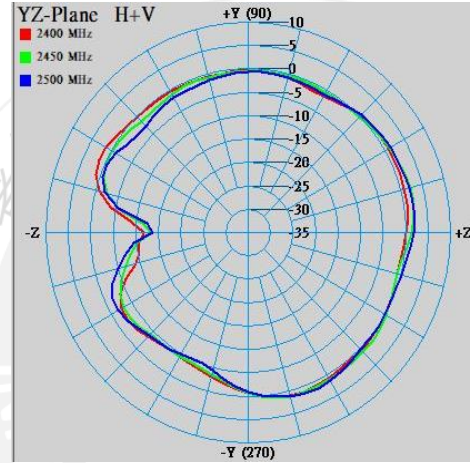
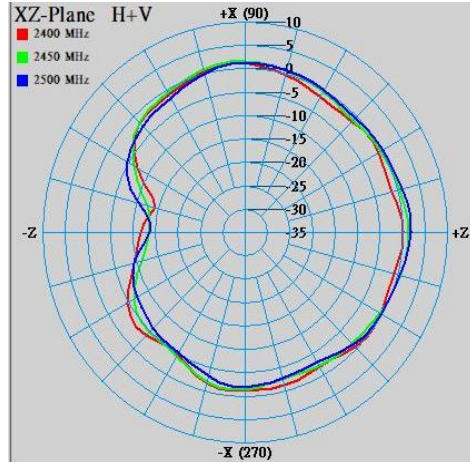
X-Y plane



2. Antenna Characteristics

WIFI@2G

2.3 2D Radiation Patterns

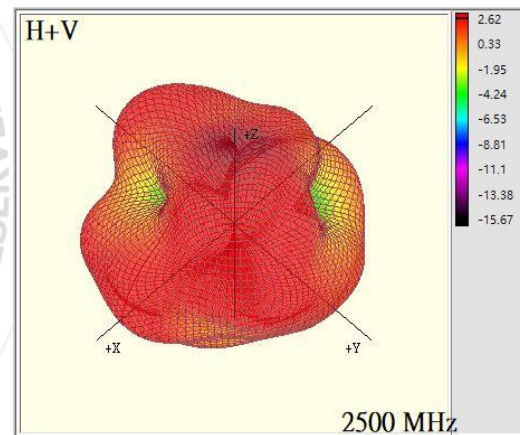
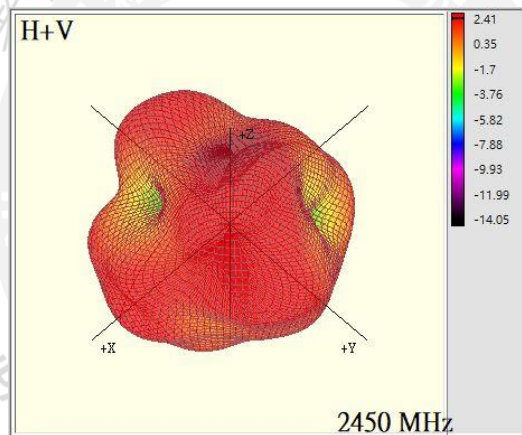
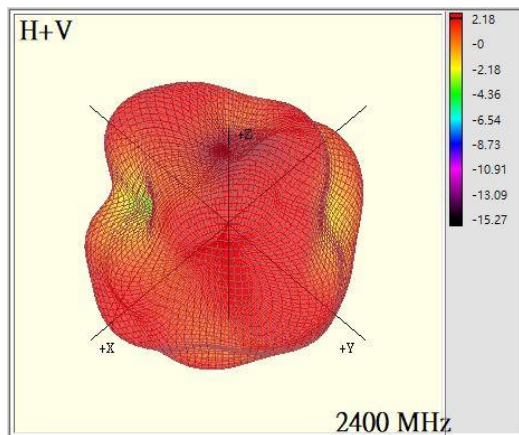


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.42	-1.74	1.63	-0.65	1.28	-1.34
2450	1.78	-1.39	2.40	-0.61	1.70	-1.26
2500	1.90	-1.48	2.18	-0.70	1.37	-1.33

2. Antenna Characteristics

WIFI@2G

2.3 3D Radiation Patterns



3. Summary

- The performance of antennas is shown in table

	Left hand
Maximum Efficiency (%)	74.63
Maximum Gain (dBi)	2.75

Thank you

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