

PASSIVE SYSTEM ALLIANCE
WALSIN TECHNOLOGY CORPORATION

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光寶_WP8324

Presented by

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Walsin Technology Corporation

2022/9/29



Version	Date	Description	Author
V01	2022/03/23	New Release	Sam
V02	2022/08/29	使用DVT1樣機,量測修改後的ANT 1 與 修改板寬後的ANT 3天線特性	Sam

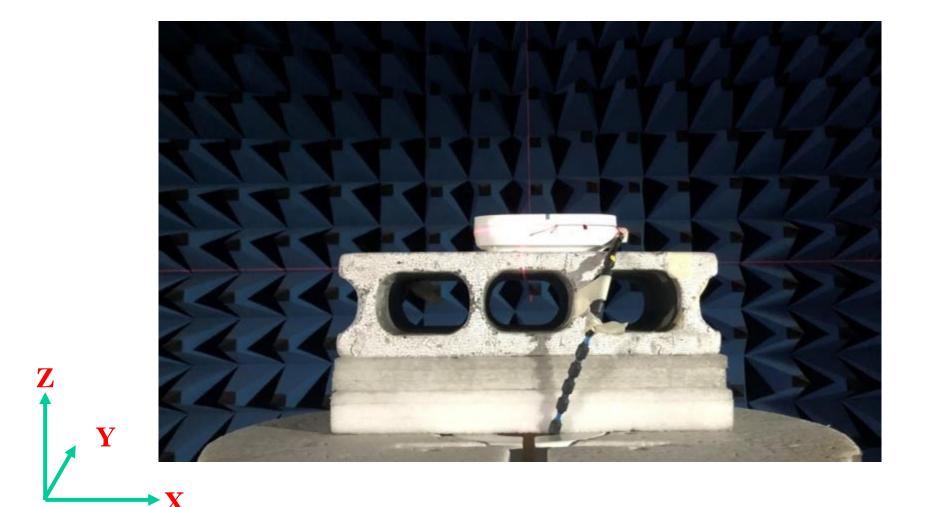
OUTLINE

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 - 1.2 Antenna Solution Detail
- 2. Antenna Characteristics
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- 3. Summary



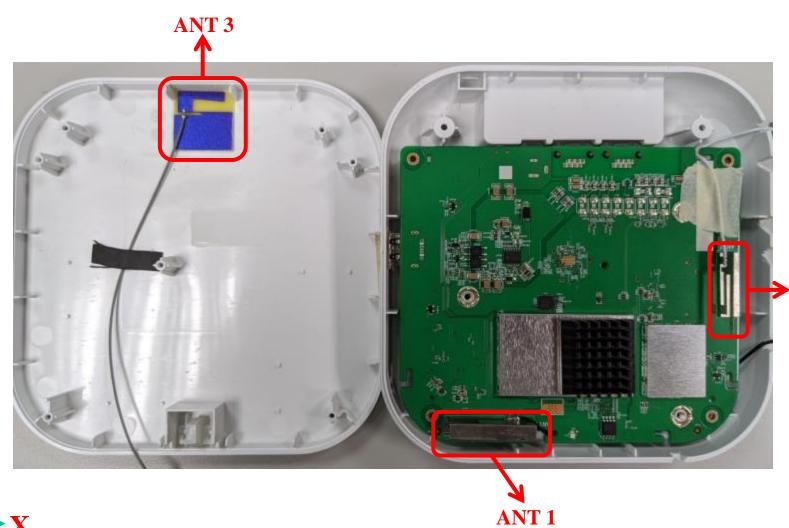
1. Measurement Information

1.1 Experimental Setup



1. Measurement Information

1.2 Antenna Solution Detail

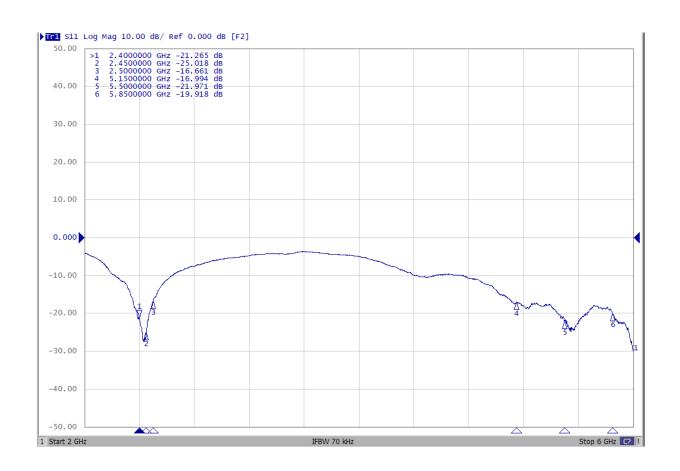




ANT 2

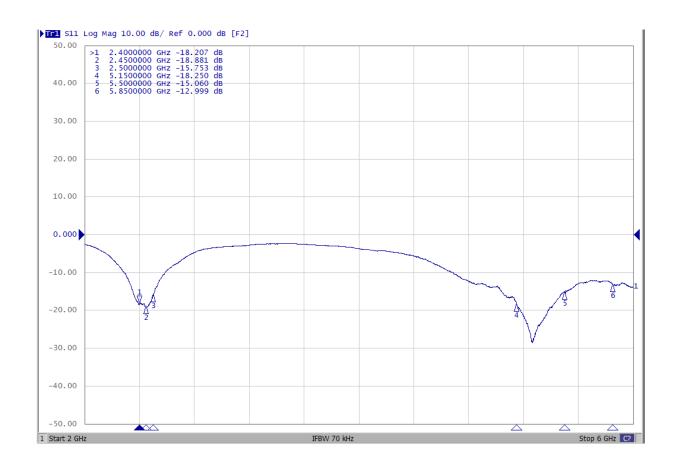
2.1 Return Loss





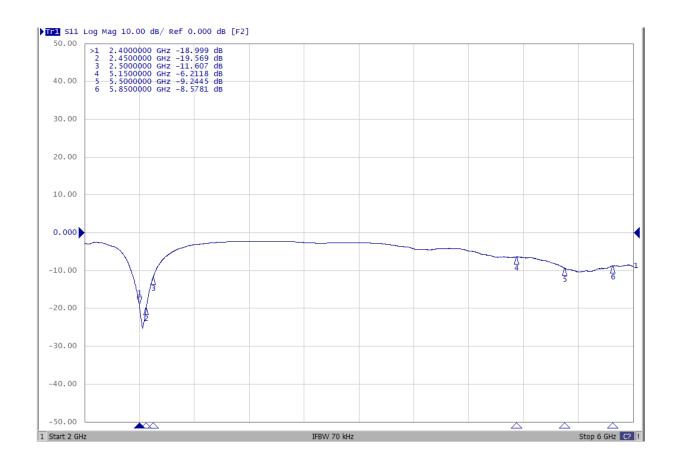
2.1 Return Loss





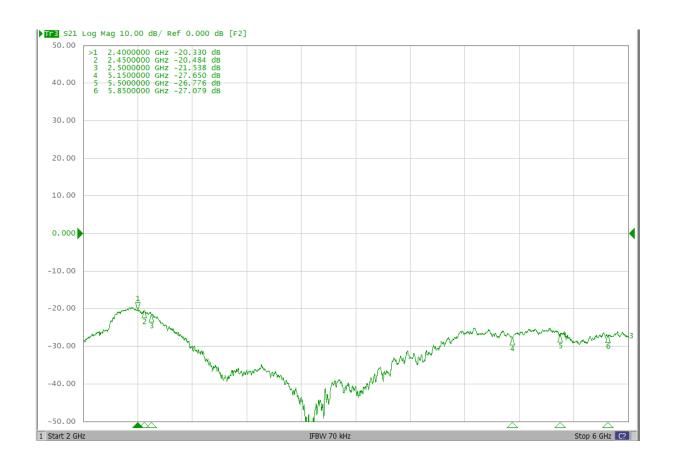
2.1 Return Loss





2.1 Isolation

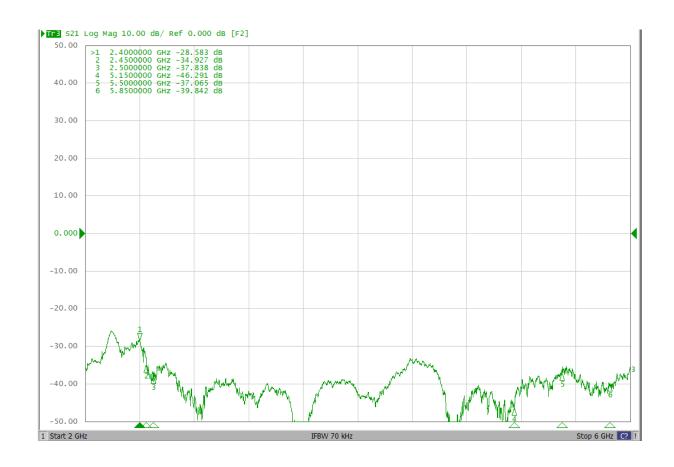
ANT1-ANT2





2.1 Isolation

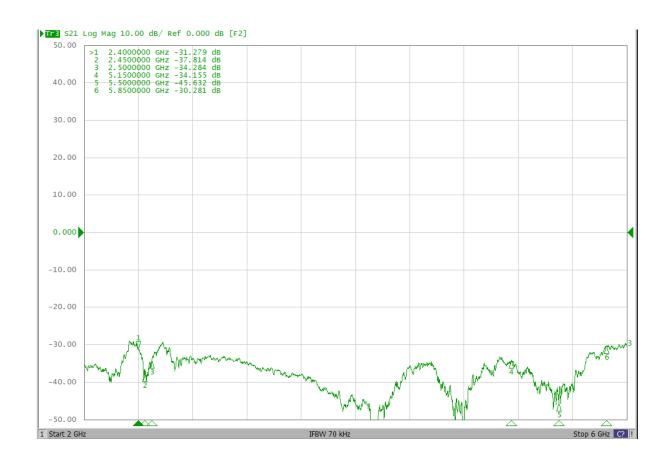
ANT1-ANT3





2.1 Isolation

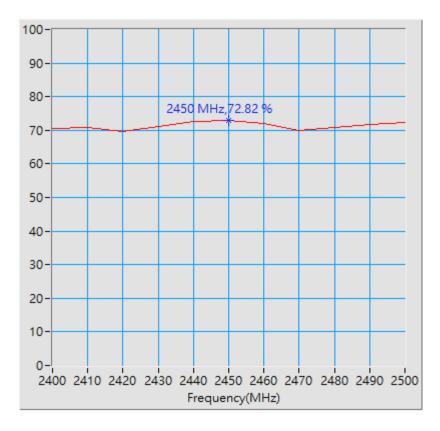
ANT2-ANT3





2.2 Antenna Efficiency

ANT1_2G

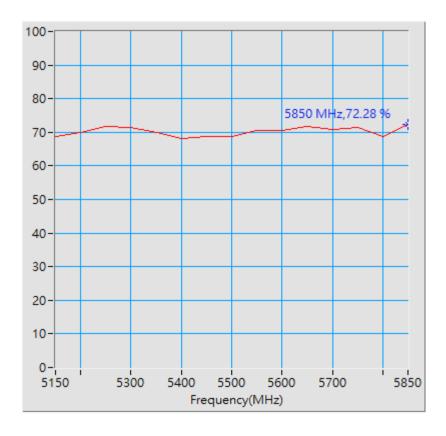


Maximum Efficiency at 2450 MHz : 72.82 %



2.2 Antenna Efficiency

ANT1_5G

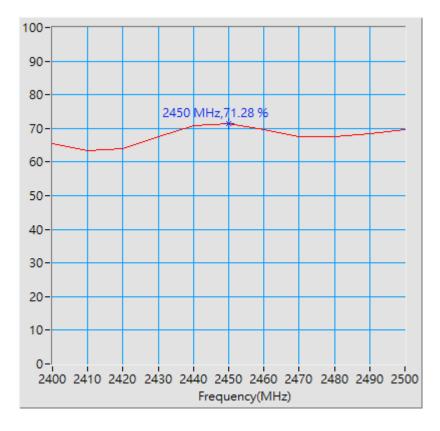


Maximum Efficiency at 5850 MHz : 72.28 %



2.2 Antenna Efficiency

ANT2_2G

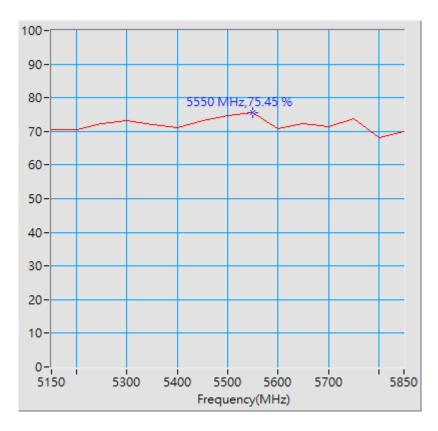


Maximum Efficiency at 2450 MHz : 71.28 %



2.2 Antenna Efficiency

ANT2_5G

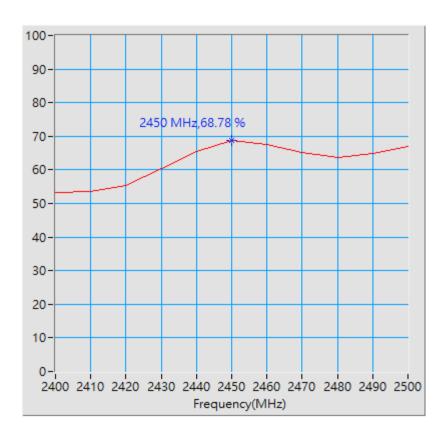


Maximum Efficiency at 5550 MHz : 75.45 %



2.2 Antenna Efficiency

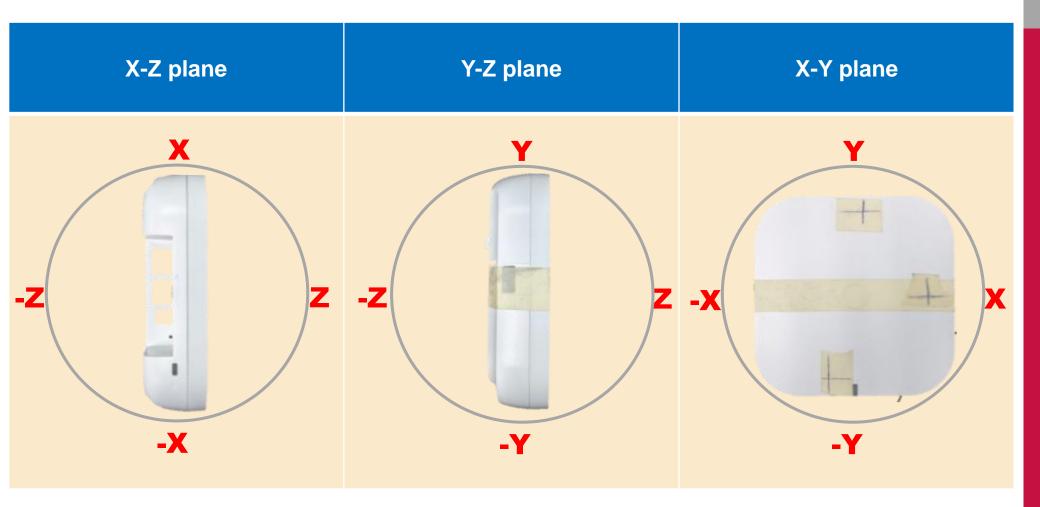
ANT3



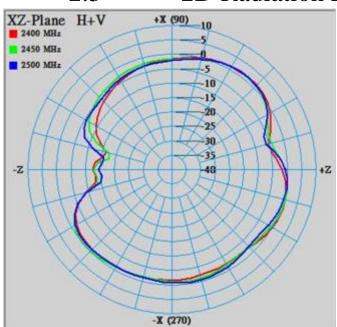
Maximum Efficiency at 2450 MHz : 68.78 %

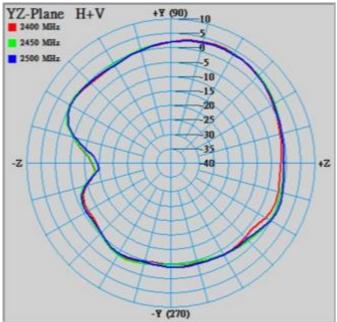


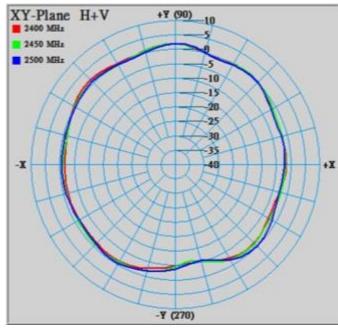
2.3 3 views of antenna



ANT1_2G

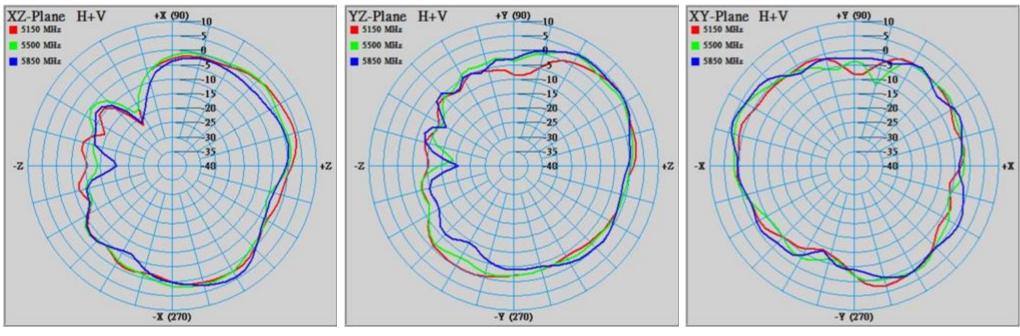






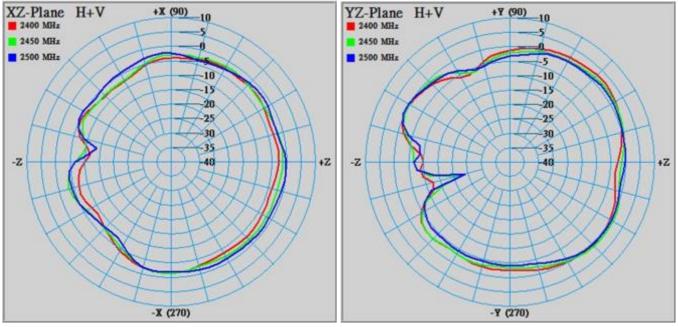
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.48	-1.90	3.96	-0.91	2.06	-0.85
2450	1.46	-1.71	3.71	-0.54	2.14	-0.79
2500	1.54	-1.84	3.57	-0.66	2.06	-0.79

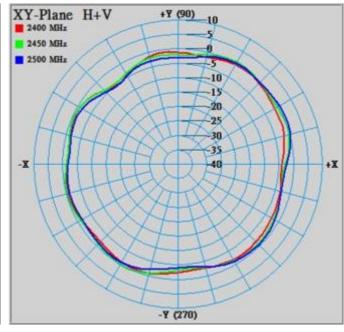
ANT1_5G



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	4.03	-0.90	4.76	-1.22	2.94	-1.20
5500	2.70	-1.29	4.10	-1.12	3.68	-0.86
5850	4.44	-1.96	4.73	-1.14	4.63	-0.22

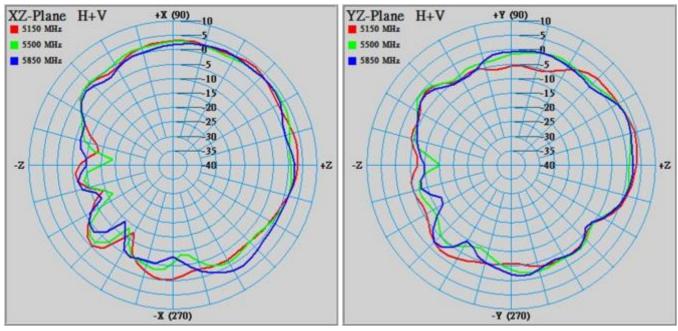
ANT2_2G

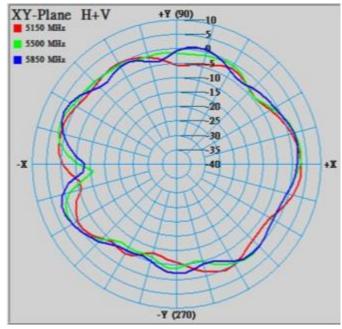




	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-1.42	-4.15	3.52	-1.09	0.05	-1.66
2450	-1.14	-3.32	2.00	-1.23	0.88	-1.23
2500	0.06	-2.81	1.33	-1.71	0.78	-1.52

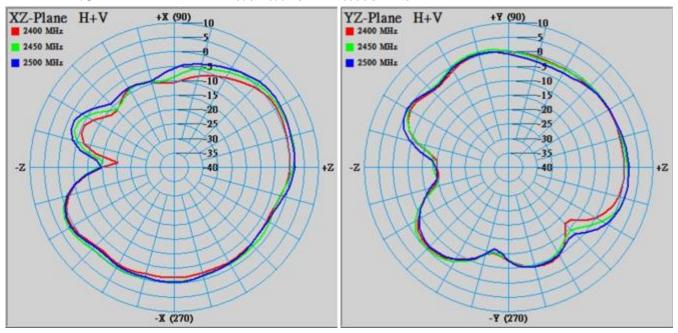
ANT2_5G

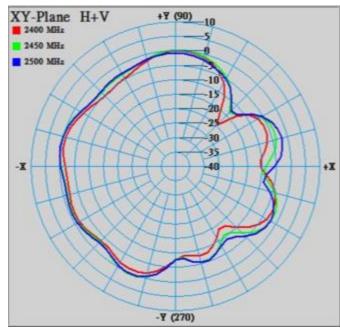




	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	4.37	0.30	4.27	-1.37	3.24	-1.17
5500	3.94	-0.14	3.43	-1.73	3.22	-0.67
5850	3.72	-0.06	3.29	-1.75	3.02	-0.67

ANT3





	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.03	-2.62	0.54	-2.28	0.15	-3.75
2450	2.20	-1.35	1.78	-1.60	0.62	-2.62
2500	2.55	-1.19	1.80	-1.81	0.42	-2.66

3. Summary

* The performance of antennas is shown in table

	ANT 1		ANT 2		ANT 3	
	2G 5G		2G	5G	AIVI 3	
Maximum Peak gain(dBi)	3.96	4.76	3.52	4.37	2.55	
Maximum Efficiency(%)	72.82	72.28	71.28	75.45	68.78	



Thank you

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