

PSA

PASSIVE SYSTEM ALLIANCE
WALSin TECHNOLOGY CORPORATION

立象
AR-3100

Presented by

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Version	Date	Description	Author
V01	2018/10/05	New Release	Jimmy

OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 Return Loss

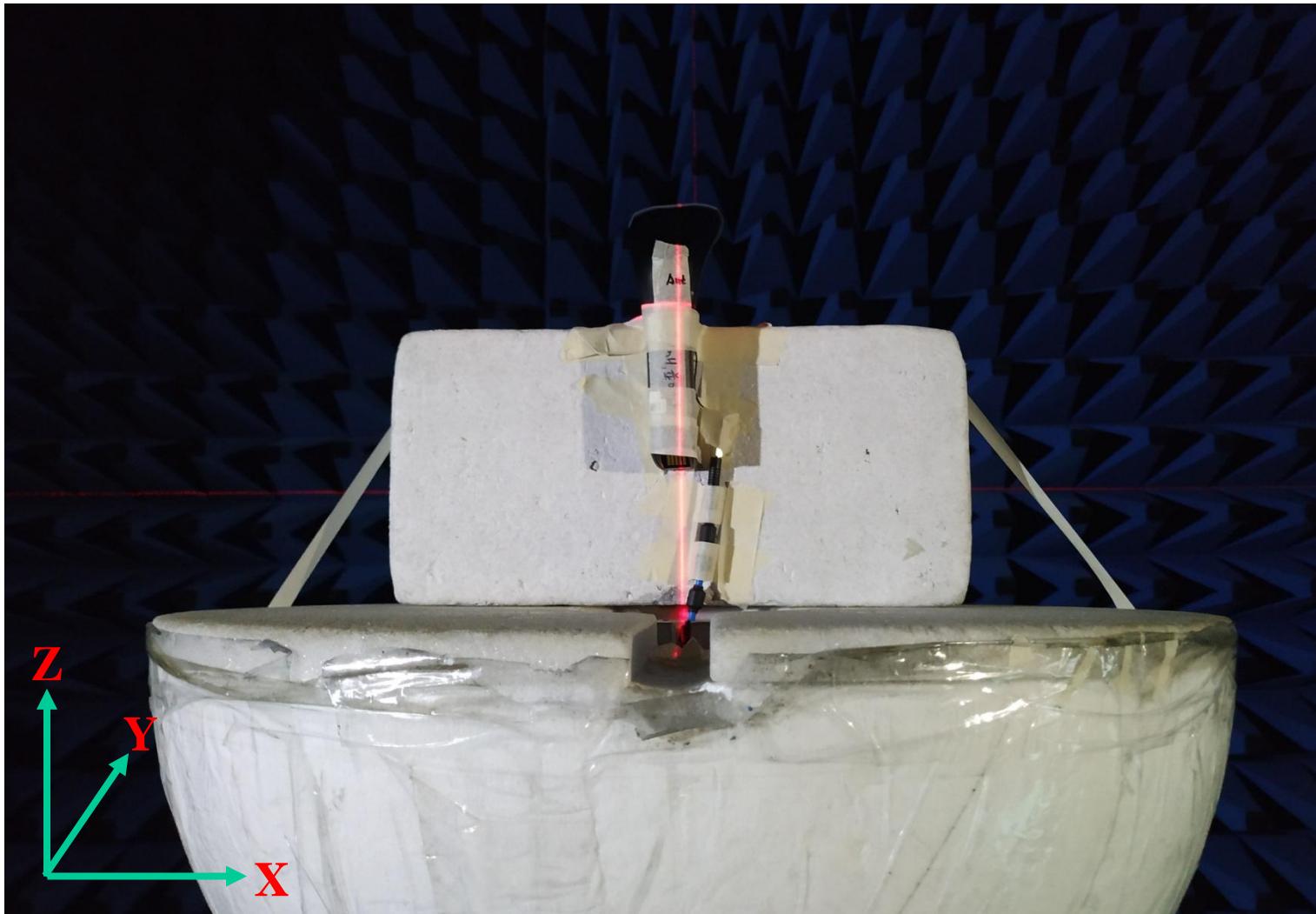
2.2 Antenna Efficiency and Peak gain

2.3 2D Radiation Patterns

3. Summary

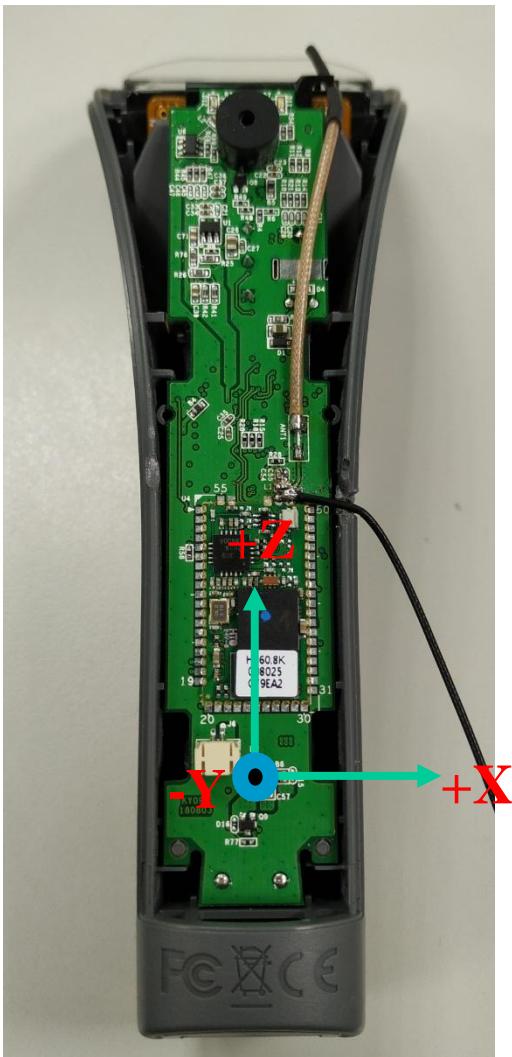
1. Measurement Information

1.1 Experimental Setup

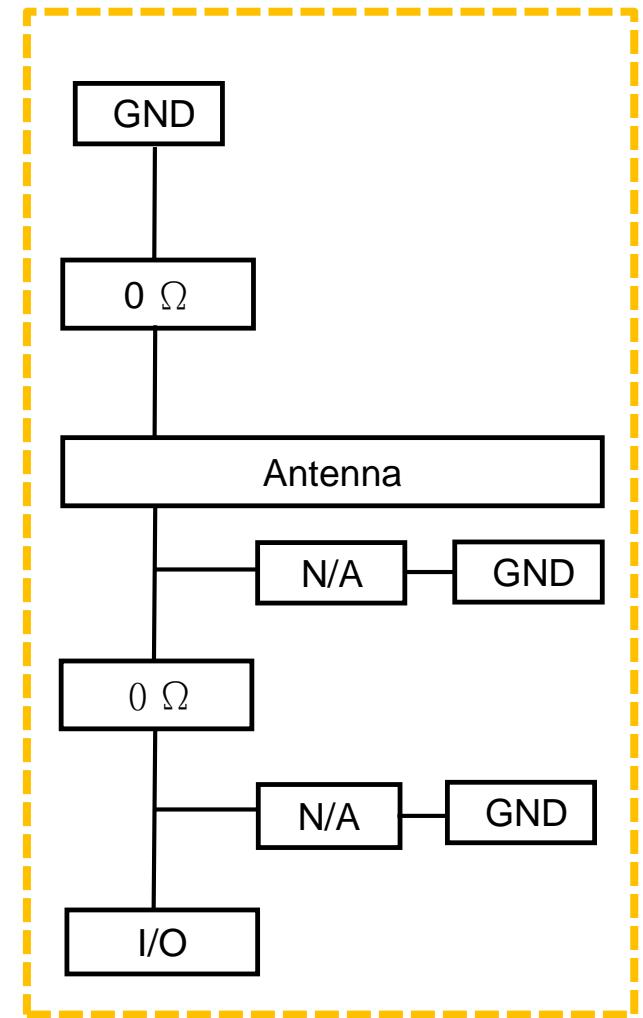


1. Measurement Information

1.2 Antenna Solution Detail (Original)



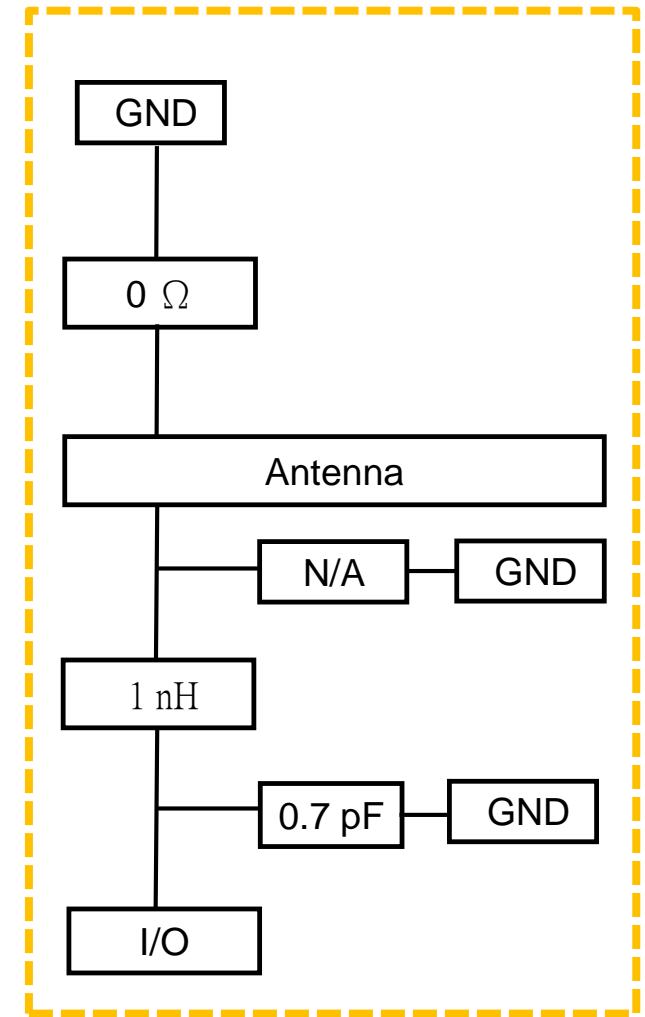
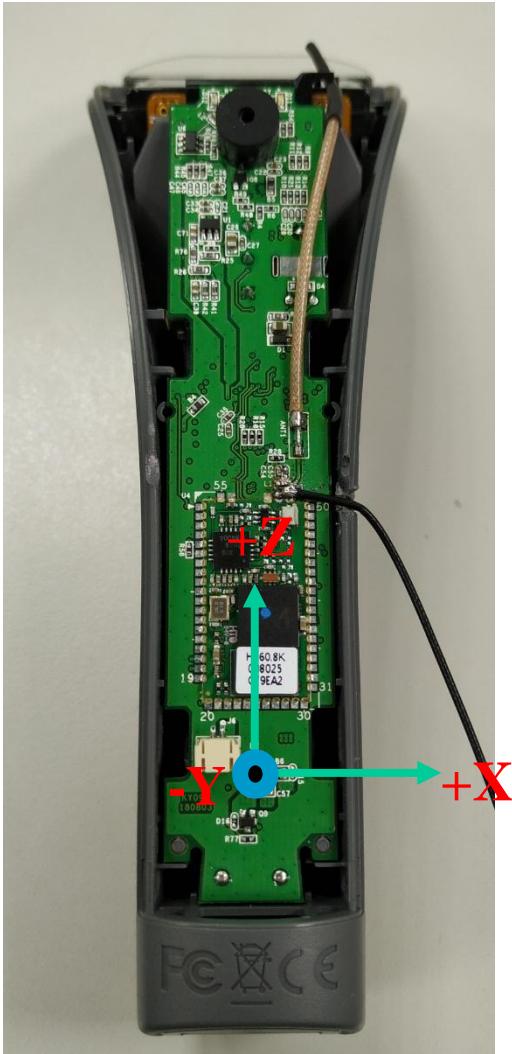
Matching values



1. Measurement Information

1.2 Antenna Solution Detail (Matching)

Matching values



2. Antenna Characteristics

2.1 Return Loss (Original)



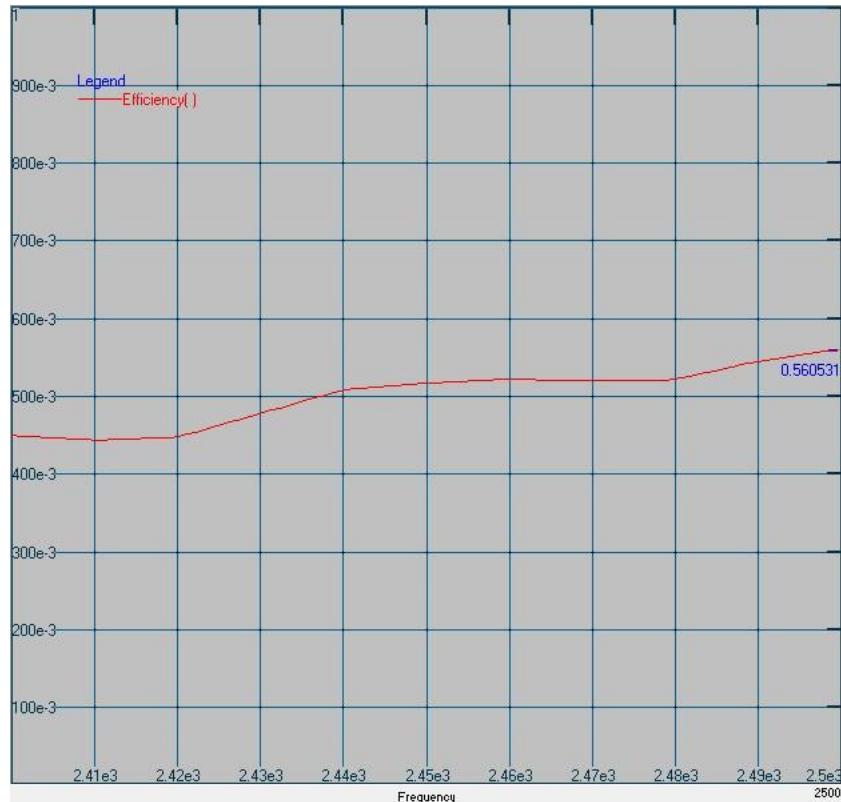
2. Antenna Characteristics

2.1 Return Loss (Matching)

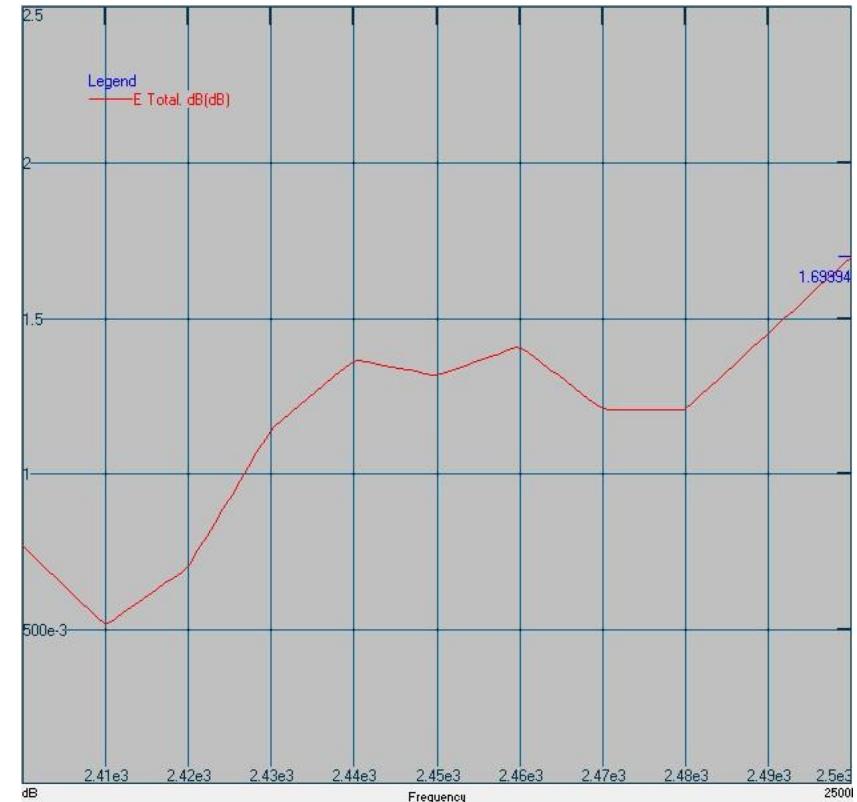


2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain (Original)



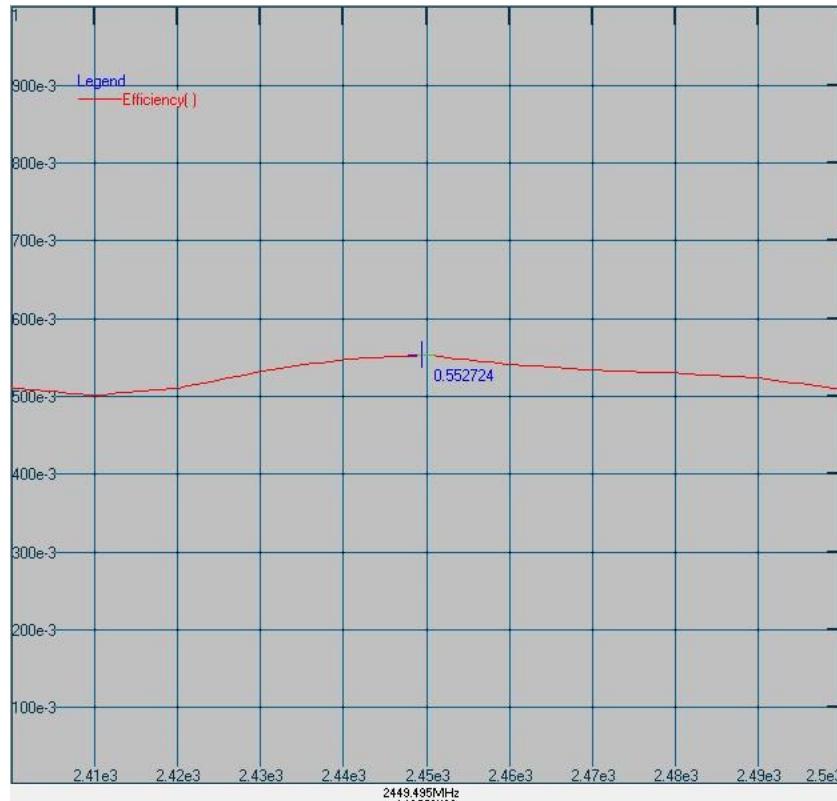
Maximum Efficiency at 2500 MHz : 56 %



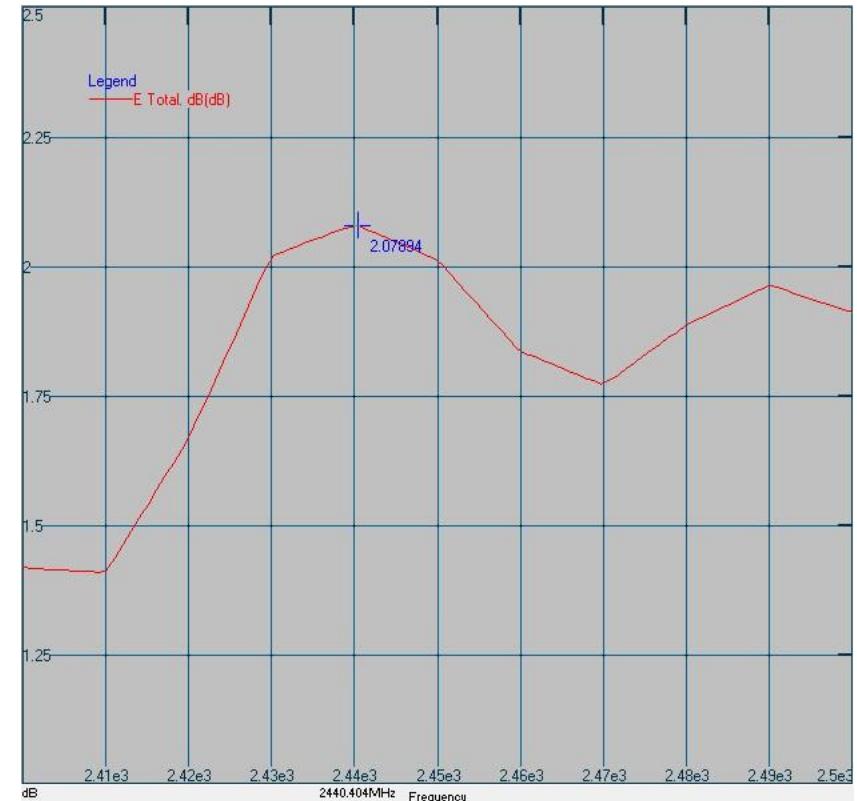
Maximum Peak Gain at 2500 MHz : 1.69 dBi

2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain (Matching)



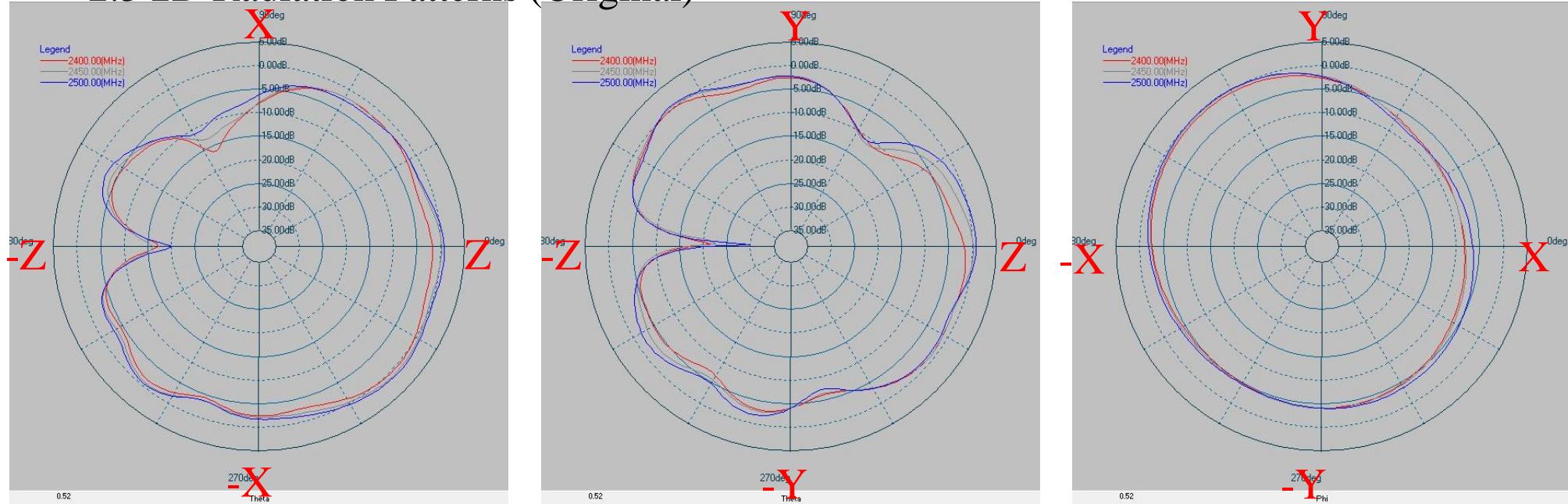
Maximum Efficiency at 2450 MHz : 55 %



Maximum Peak Gain at 2440 MHz : 2.07 dBi

2. Antenna Characteristics

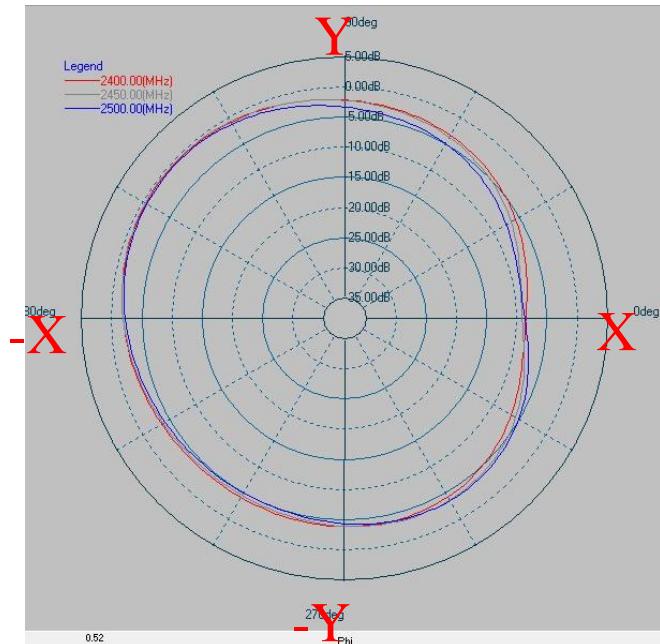
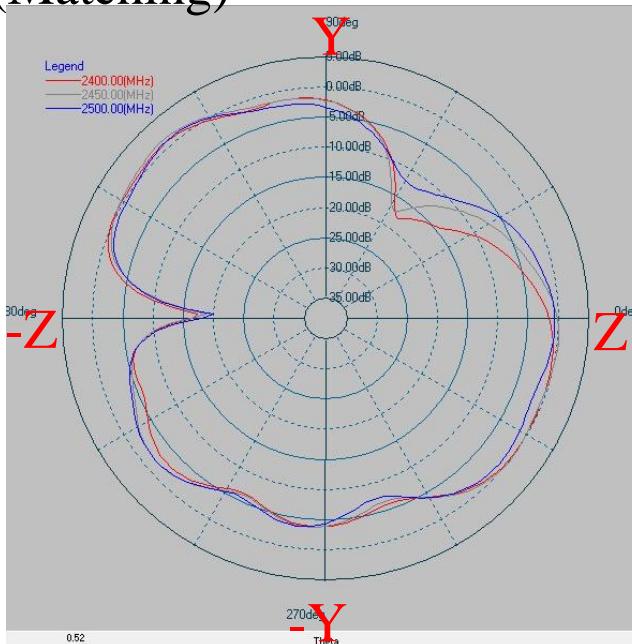
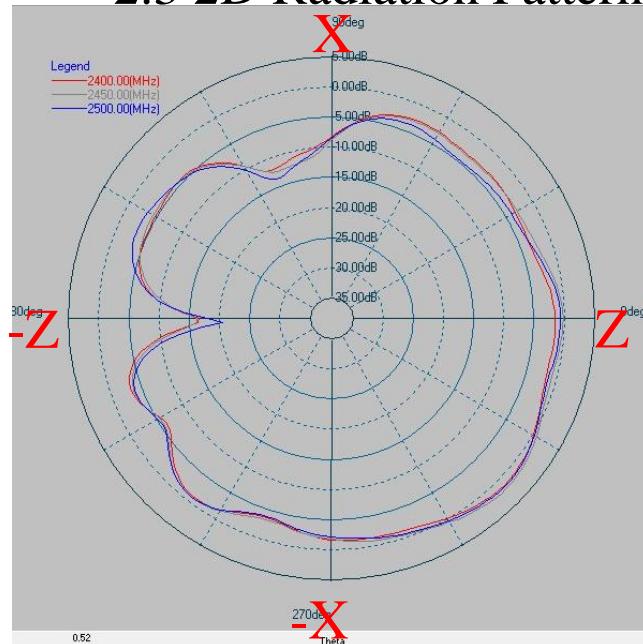
2.3 2D Radiation Patterns (Original)



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	0.29	-3.40	-0.06	-3.69	-0.68	-3.98
2450	1.06	-2.60	0.37	-3.01	-0.21	-3.69
2500	1.39	-2.20	0.81	-2.65	0.02	-3.36

2. Antenna Characteristics

2.3 2D Radiation Patterns (Matching)



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.22	-3.01	0.80	-3.06	-0.52	-3.34
2450	1.88	-2.60	1.38	-2.65	-0.34	-3.37
2500	1.45	-2.94	0.92	-3.04	-0.63	-3.78

3. Summary

- The performance of antennas is shown in table

	Maximum Efficiency (%)	Peak Gain (dB)
ANT(Original)	56	1.69
ANT(Matching)	55	2.07

Thank you

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