



u4g GS2128G Antenna Check Sheet



Revision History:

Version	Date	Change Description
1.0	2022/9/21	New Release



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Antenna Specification

Ant .	Antenna Brand	Antenna. model	Antenna type	Anten na Gain (dBi)	Frequenc y Range from MHz to MHz	Connecto r type	Cable lengt h (cm)	Cabl e Loss	Remar k
#1	HONGBO	290-20509	Dipole	3.6	2400- 2500	IPEX	10		Ant1 Black
#2	HONGBO	290-20510	Dipole	4.8	2400- 2500	IPEX	31.5		Ant2 White
#3	PSA	RFPCA341221IM5B 901	Monopole	4.45	5150- 5925	IPEX	21.5		Ant3 Red
#4	PSA	RFPCA341218IM5B 901	Monopole	4.46	5150- 5925	IPEX	18		Ant4 Grey



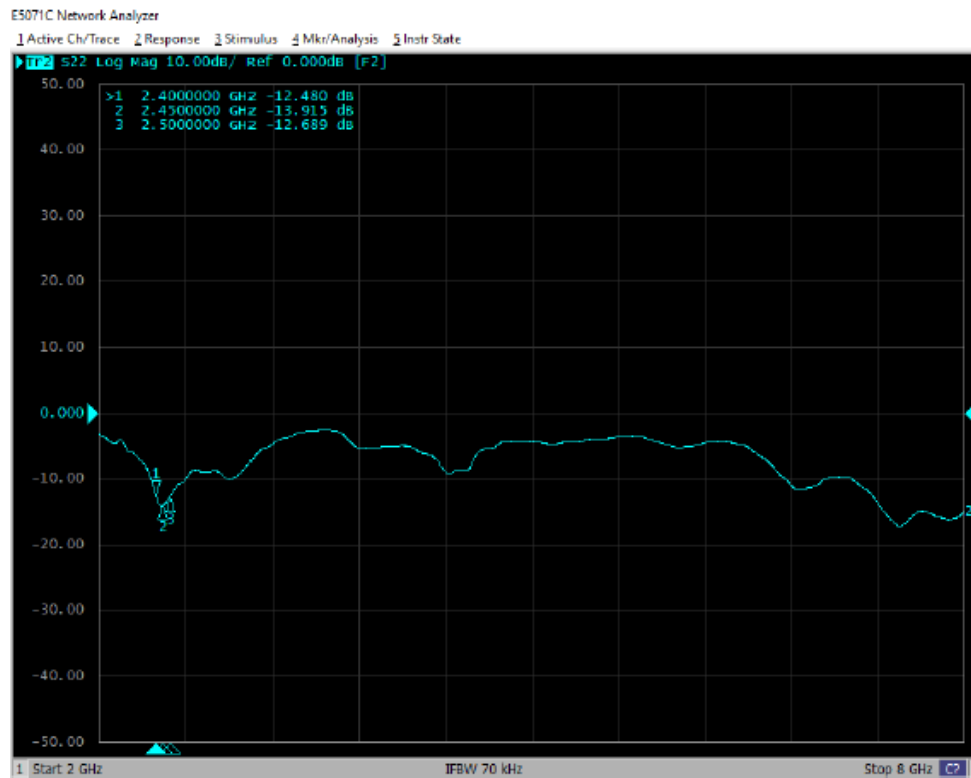
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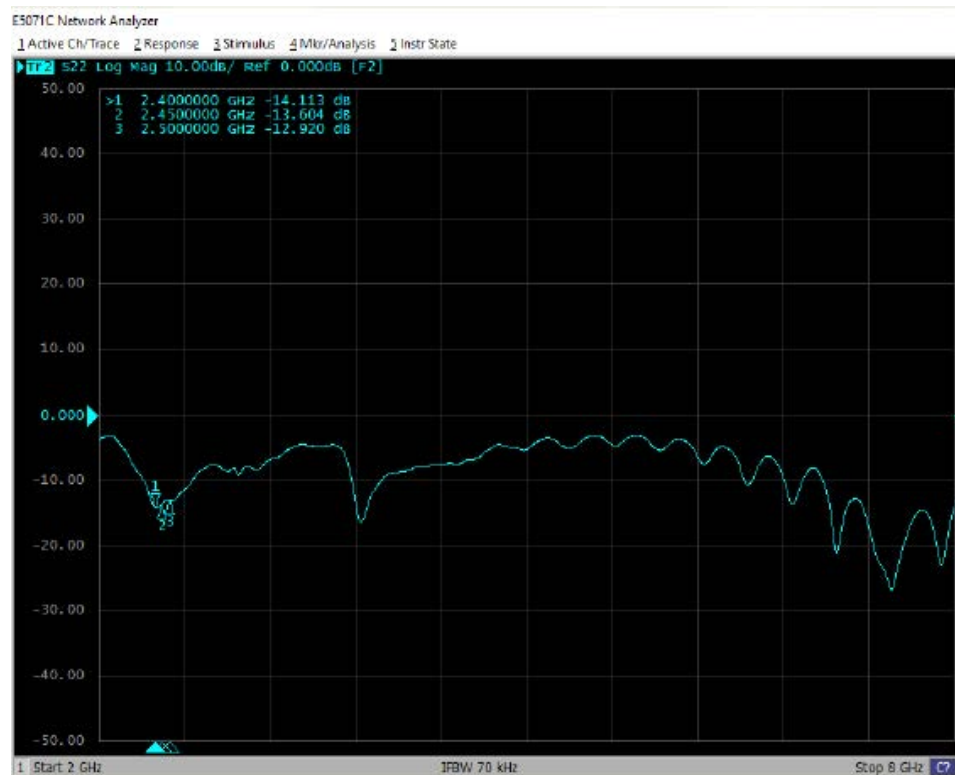
Test Result:

Return Loss

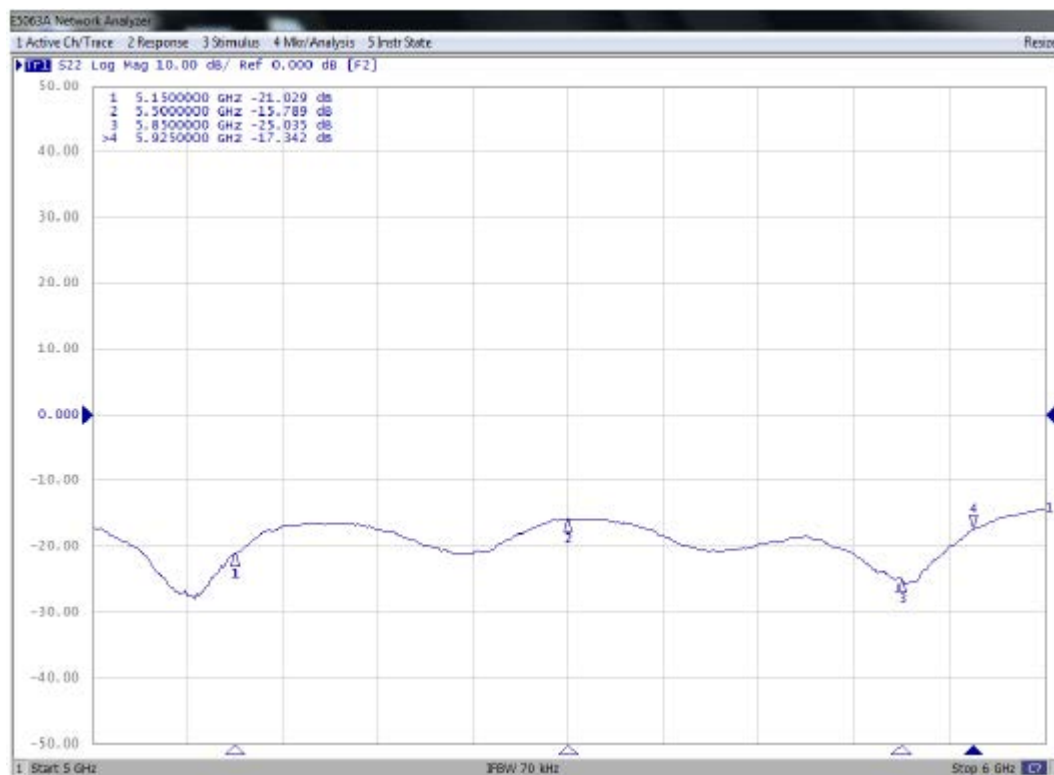
Ant1



Ant2



Ant3





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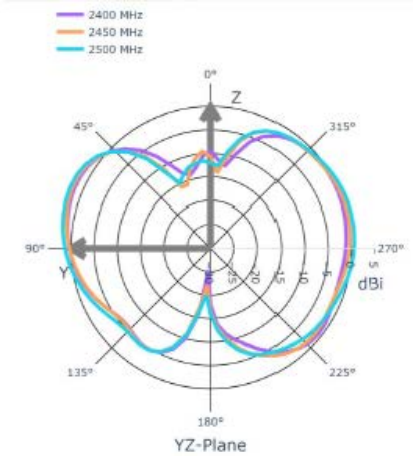
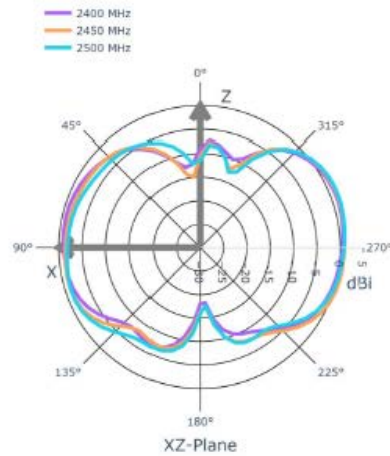
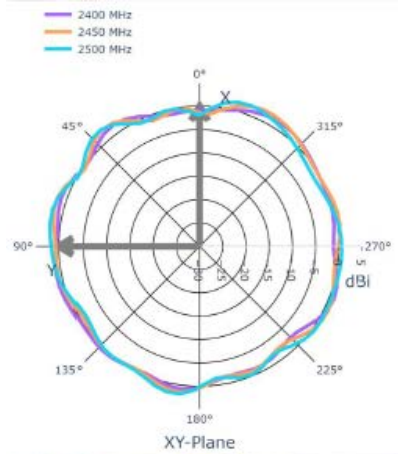
Date: 2022/9/21

Ant4

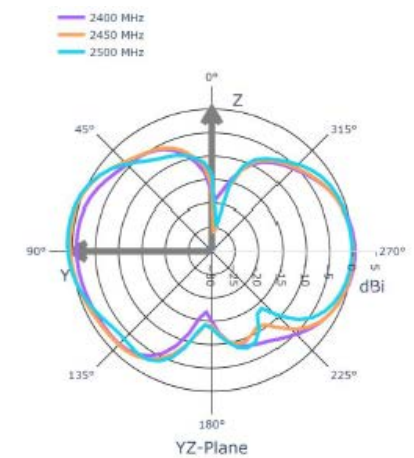
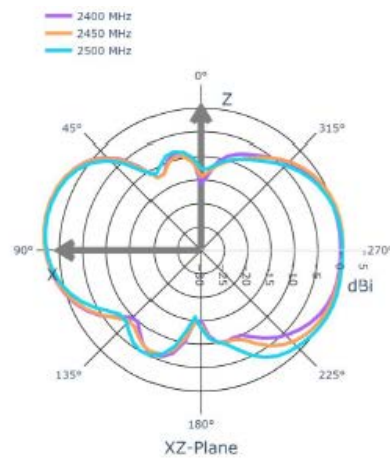
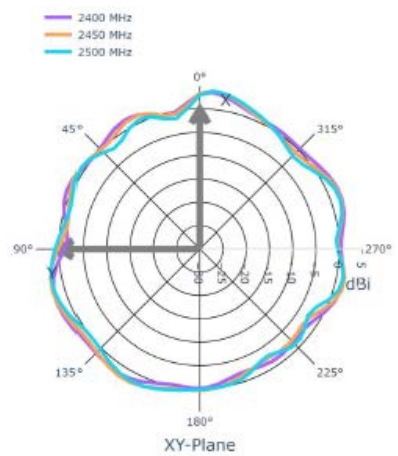


2D Radiation Patterns:

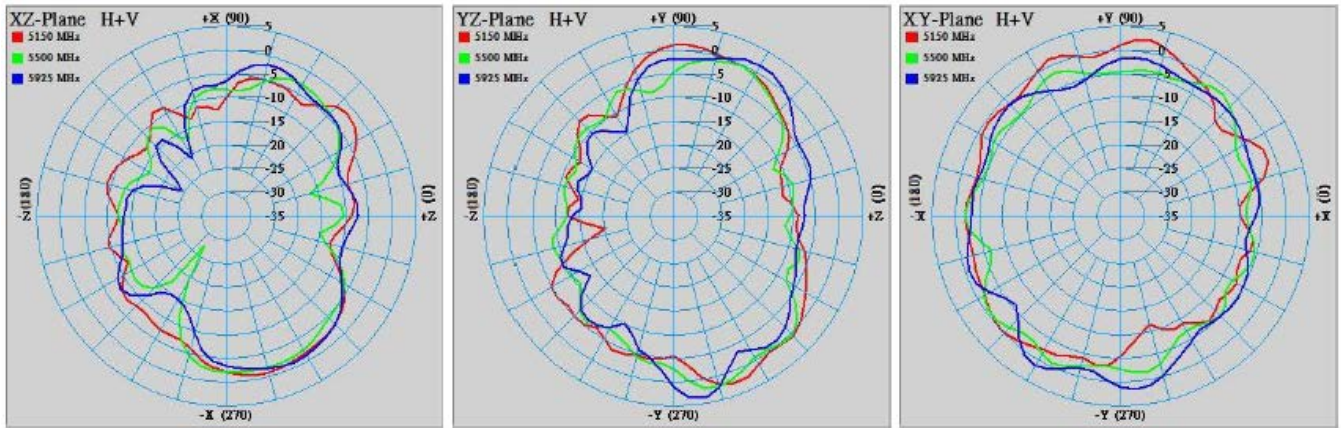
Ant1



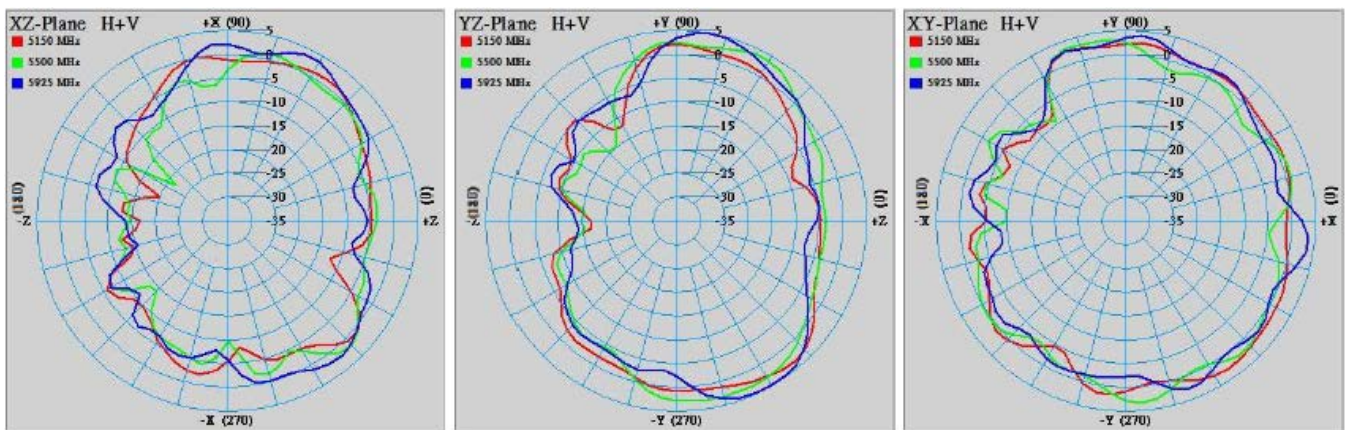
Ant2



Ant3



Ant4





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Antenna Gain Table:

Frequency(MHz)	Ant1(dBi)	Ant2(dBi)
2400	2.6	4.2
2455	3.4	4.8
2500	3.6	4.6

Frequency(MHz)	Ant3(dBi)	Ant4(dBi)
5150	2.76	2.81
5500	2.75	3.35
5750	3.65	4.46
5925	4.45	4.1



Antenna Vendor information:

Walsin Technology Corporation

Address: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan



HONGBO WIRELESS COMMUNICATION TECHNOLOGY CO., LTD.

Address: No. 120, Sec. 2, Fuxing 3rd Rd., Zhubei City, Hsinchu County
302502 , Taiwan





1. Antenna Vendor : PSA for 5GHz Antenna

Test date: 2022/08/02

Test Engineer: Abel Huang

Address of test site: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan

Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : Keysight VNA E5063A

-Setup:

VNA RF port connect to DUT

Pattern Measurement:

-Chamber : Satimo SG24

-Test Program:SPM1.11

-Setup Photo: See Appendix.

The antenna gain of the antenna model: RFPCA341221IM5B901 & RFPCA341218IM5B901 (Ant. 3 & Ant. 4) was measured by PSA.

Test instrument calibration information:

Vendor	Model	Calibrated Date	Calibrated Until
Keysight	VNA E5063A	2022/03/17	2023/03/16



2. Antenna Vendor :HONGBO for 2GHz Antenna

Test date: 2022/08/22

Test Engineer: White & Jack

Address of test site: No. 120, Sec. 2, Fuxing 3rd Rd., Zhubei City, Hsinchu County
302502 , Taiwan

Measurement Setup:

Reflection Coefficient Measurement:

-Instrument :Keysight VNA E5071C

-Setup:

VNA RF port connect to DUT

Pattern Measurement:

-Chamber: Satimo SG24

-Test Program :Wave Studio 22.1.7

-Setup Photo: See Appendix.

The antenna gain of the antenna model: 290-20509 & 290-20510 (Ant. 1 & Ant. 2) was measured by HONGBO.

Test instrument calibration information:

Vendor	Model	Calibrated Date	Calibrated Until
Keysight	VNA E5071C	2021/10/18	2022/10/17