



BW1600A Antenna Check Sheet



BW1600A Antenna Check Sheet

Date: 2023/6/21

Revision History:

Version	Date	Change Description
1.0	2023/6/21	New Release



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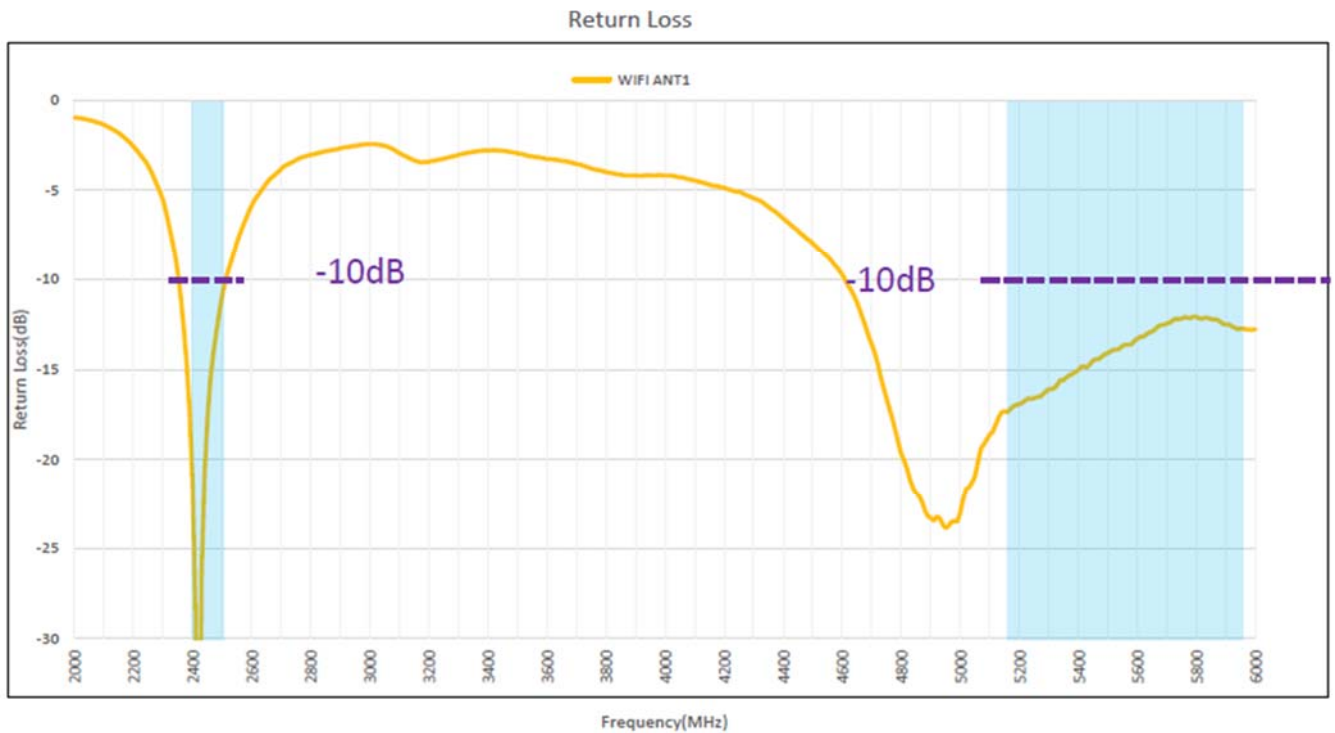
Antenna Specification

Ant.	Antenna Brand	Antenna. model	Antenna type	Antenna Gain (dBi)	Frequency Range from MHz to MHz	Connector type	Cable length (cm)	Remark
#1	Quectel	Y4AXO00A1FA	Dipole	3.53	2400-2500	IPEX	5	Ant1
				4.82	5150-5925			
#2	Quectel	Y4AXO00A1EA	Dipole	1.66	2400-2500	IPEX	13	Ant2
				4.61	5150-5925			

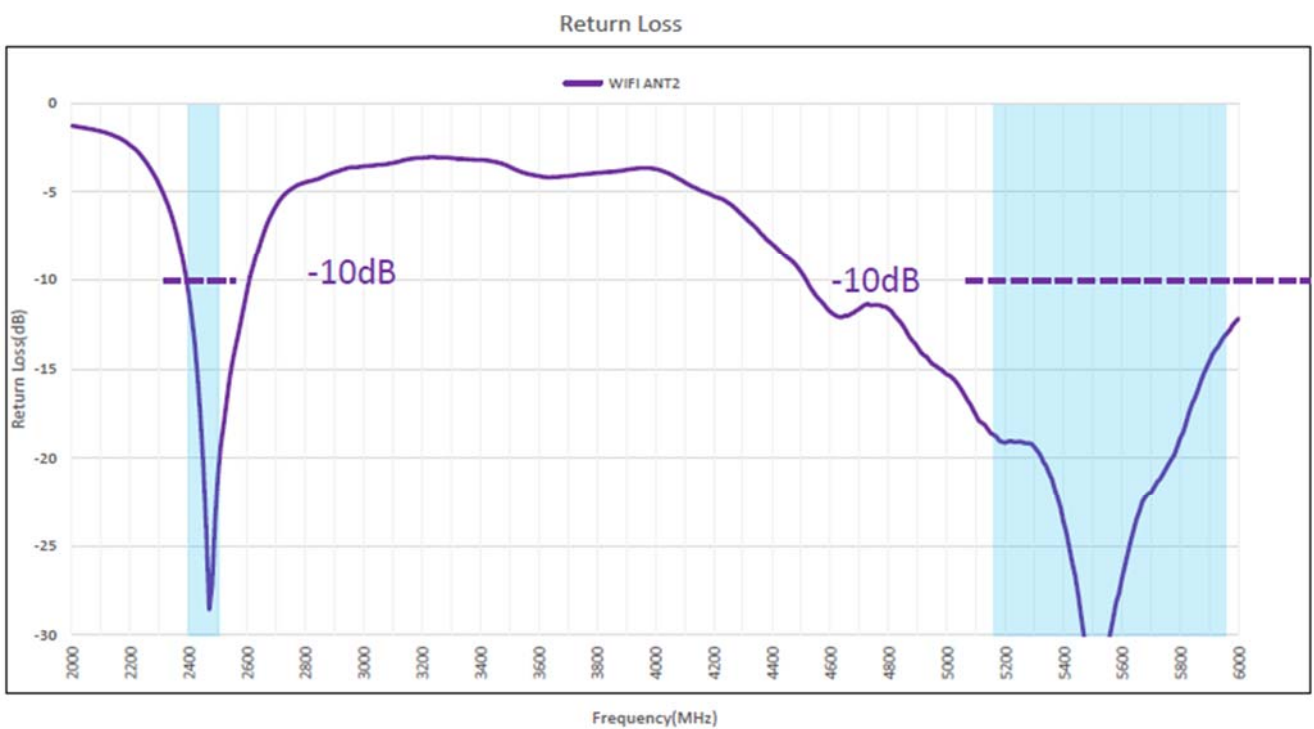
Test Result:

Return Loss

Ant1



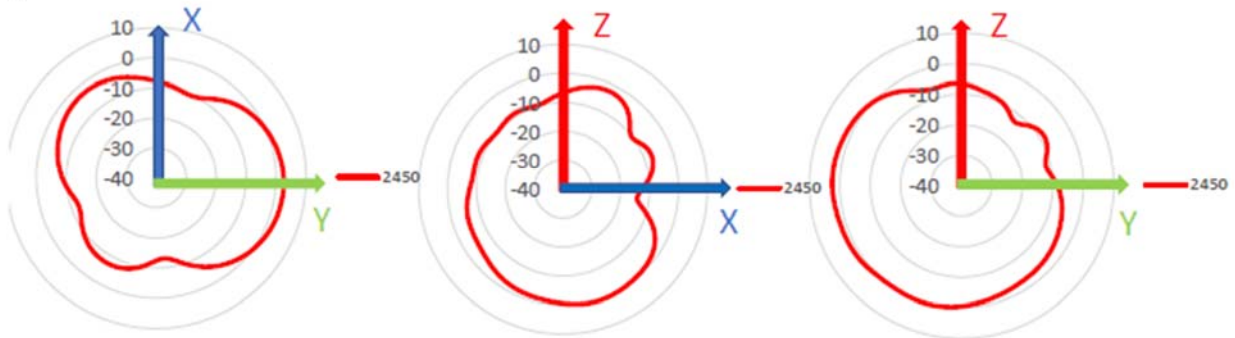
Ant2



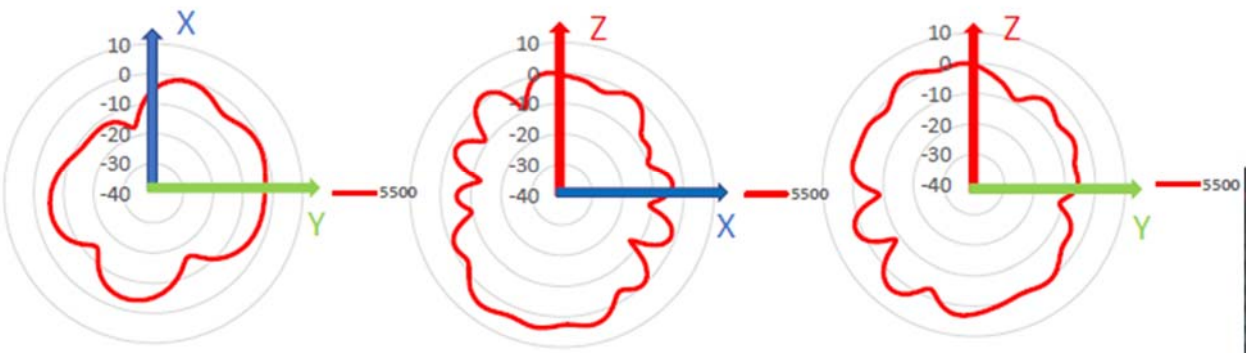
2D Radiation Patterns:

Ant1

@2450MHz

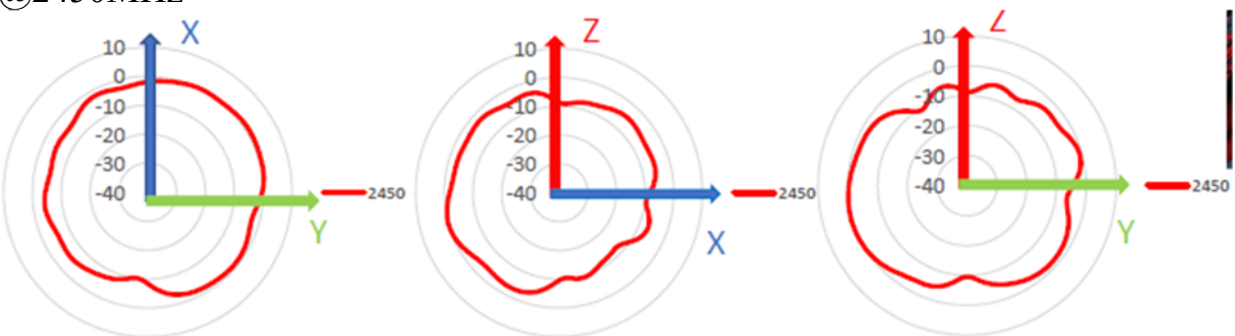


@5500MHz

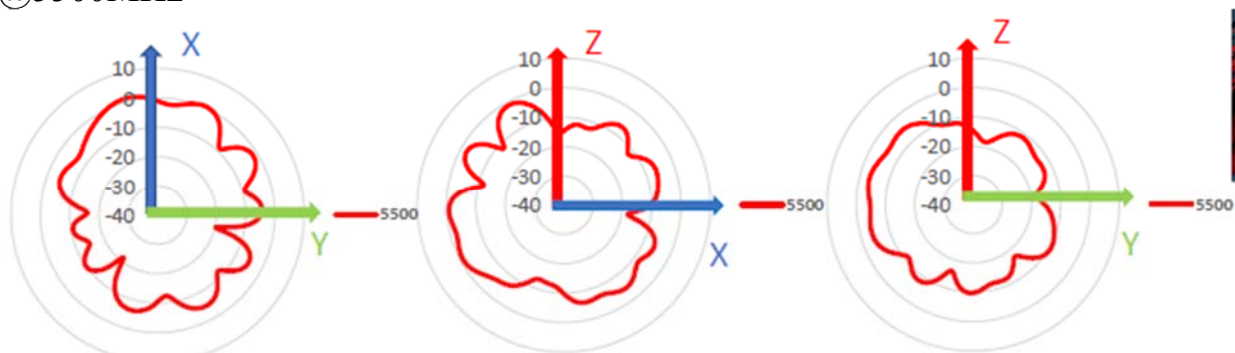


Ant2

@2450MHz



@5500MHz





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Antenna Gain Table:

Frequency(MHz)	Ant1(dBi)	Ant2(dBi)
2400	3.53	1.34
2450	3.24	1.29
2500	2.25	1.66

Frequency(MHz)	Ant1(dBi)	Ant2(dBi)
5150	4.82	3.75
5500	4.16	4.61
5925	2.86	3.53



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Antenna Vendor information:

Quectel Wireless Solutions Co., Ltd.

Address: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,
Minhang District, Shanghai 200233, China



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1. Antenna Vendor : Quectel Wireless Solutions Co., Ltd.

Test date: 2023/06/10

Test Engineer: Edwin. Xiao

Address of test site:

Floor 1, Building 9, Guilin Electric Valley, Chaoyang Road, Qixing District, Guilin, Guangxi 541004, China

Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : KEYSIGHT E5071C

-Setup:

VNA RF port connect to DUT

Pattern Measurement:

-Chamber : SUNYIELD SY-16

-Test Program: Sunvey active measurement

-Setup Photo: See Appendix

-Setup : See Appendix

Test instrument calibration information:

Vendor	Model	Calibrated Date	Calibrated Until
Sunyield	SY-16M	2022/08/17	2024/08/16

Setup Description:

Step1: Fix the DUT on the pole in the center of the anechoic chamber.

Step2: The whole antenna unit is connected with the coaxial line at the transmitter end of the anechoic chamber.

Step3: Close the anechoic chamber door to avoid the external signal interference.

Step4: Open the antenna measurement system and can select frequency or angle to test, and import the need frequency point to test.

Step5: After testing, the test system can carry on far-field data conversion.