
SL006D project WBG antenna acknowledgement

1 Overview

This document is the SL006D project WBG antenna acknowledgement;

The antenna operates in the frequency band of 1575MHz;

2400MHz~2500MHz;

2 Manufacturere and its address

Company name: Huizhou Speed Wireless Technology Co., Ltd

Address Address: Huize Avenue, Shuikou Dongjiang High-tech Industrial Park,

Huizhou City, Guangdong Province

3 The model and type of antenna

Antenna model: SL006D-G+W (FPC) antenna

Antenna type: IFA

4 Antenna test environment

4.1 Antenna test lab, test instrument, and calibration date

Antenna input characteristics are tested using the Agilent E5071C vector network analyzer.

[illegible]

4.2 Antenna test lab, test instrument, and calibration date

The antenna radiation characteristics test uses the Satimo SG16 3D near-field anechoic chamber. The test coordinate system is shown in Figure 4.2.1.

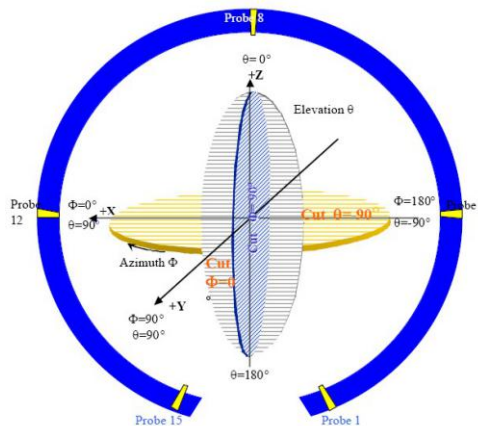


Figure 4.2.1 3D anechoic chamber test coordinate system (back view)

4.3 Antenna test lab, test instrument, and calibration date.

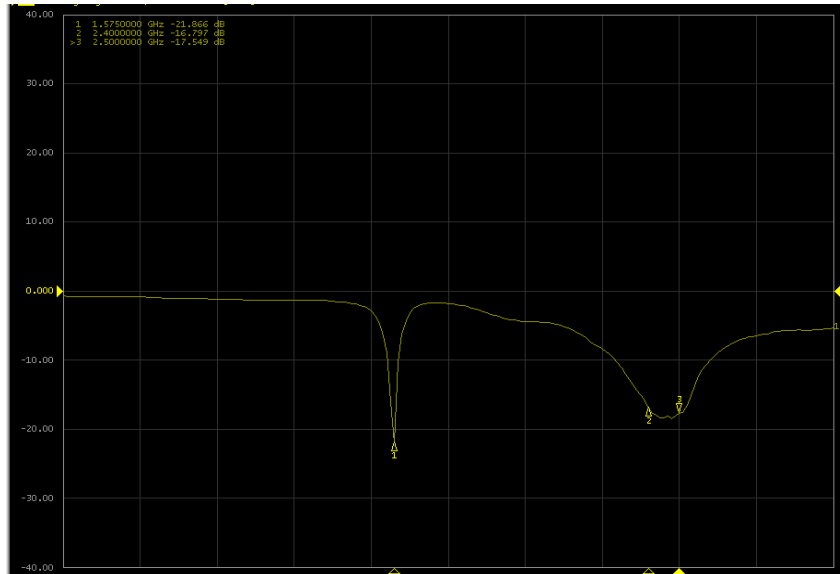


Figure 4.3.1 Dark room physical drawing

4.3 Anritsu MT8820C calibration date

Calibration date
2023.3.22

5 Reflection loss



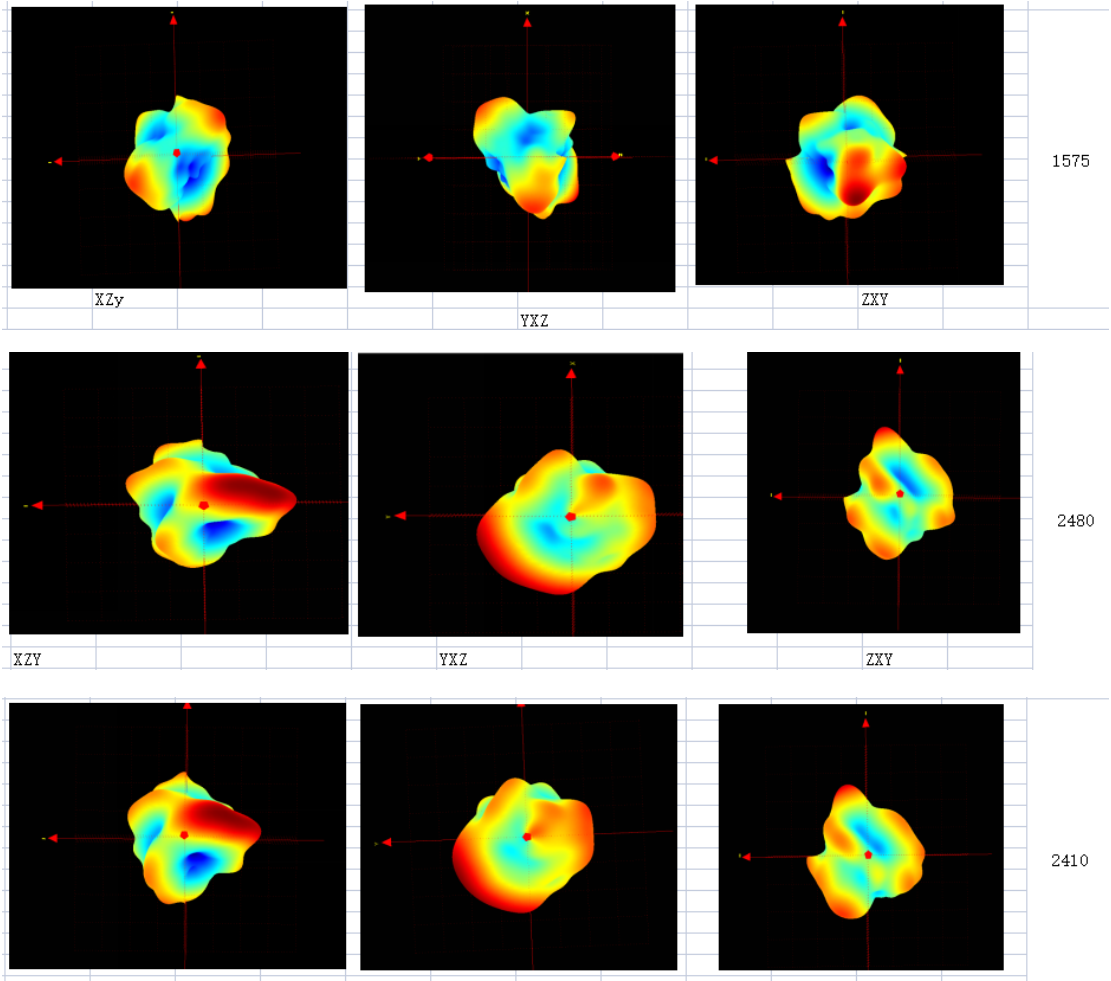
WBG S11

6 Antenna gain and 2D or 3D Pattern diagram:

Band (MHz)	Efficiency	Gain (dBi)
1570	-5.69	0.38
1580	-5.72	0.38
2400	-4.56	1.15
2410	-4.63	1.04
2420	-4.38	1.25
2430	-4.49	1.36
2440	-4.58	1.39
2450	-4.48	1.3
2460	-4.22	1.55
2470	-4.17	1.56

2480	-4.1	1.48
2490	-4.2	1.31
2500	-4.15	1.43

6.1 Antenna gain and 2D or 3D pattern diagram:



7. Antenna(Unit:mm)

