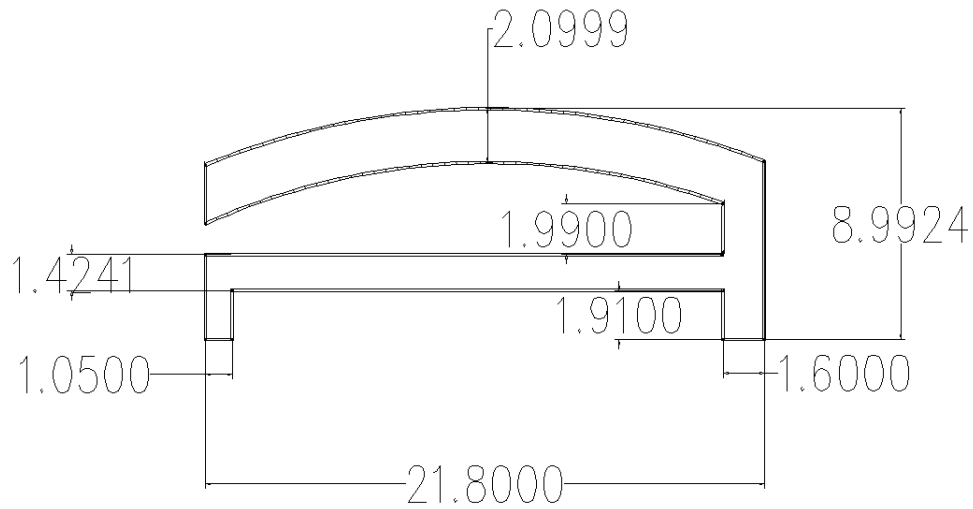


## JBL Live 770 Headset Antenna report

Applicant	Tonly Technology Co., Ltd.
Address	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, 516006 China

Manufacturer or Supplier	Tonly Technology Co., Ltd.
Address	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, 516006 China
Product	JBL Live 770 ANT
Brand Name	JBL
Model	NA
Max. Peak Gain	1.93dBi
Date of tests	2023-05-20
Tested by Pengfei Wang	Approved by Qin Cai
	

1. Antenna Size (mm)



2. Antenna photo (Please refer to Antena photos document)

3. Test setup photo (Please refer to Antena photos document)

4. Test standard

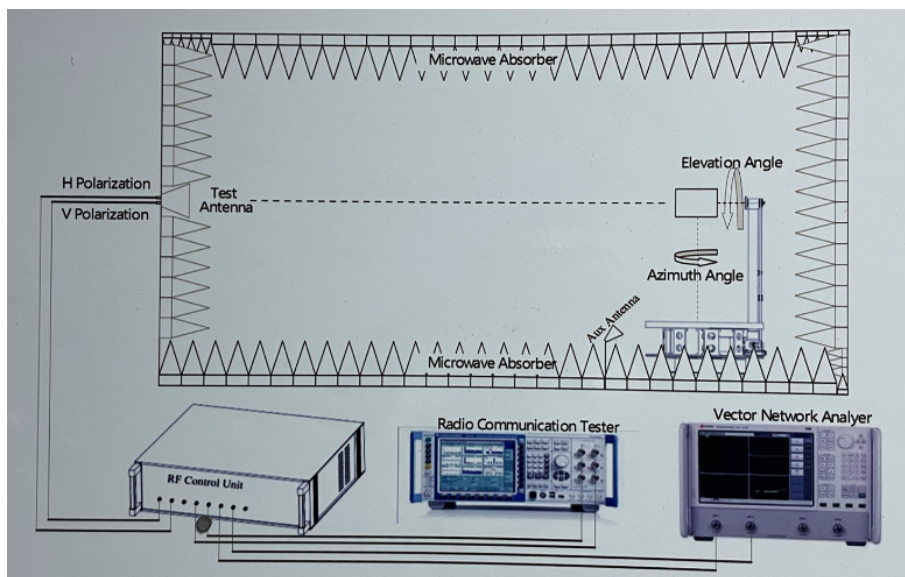
Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

5. Equipment list

Equipment	Manufacturer	Model No	Serial No.	Last Cal.	Due Date
Network Aanlyzer	Agilent	E5071C	MY46630767	2022.4.28	2023.4.27
Microwave chamber	GTS	GTS Maxsign-Dart7000		2022.4.28	2023.4.27

Turn table	GTS	Dart-700 turn table		2022.4.28	2023.4.27
turn table controller	GTS	Dart-700 turn table controller		2022.4.28	2023.4.27
Broad-Band Horn Antenna	GTS	AT-6000	MA-D0460	2022.4.28	2023.4.27
Test Software	GTS	Libra Version-3.0.3.1		2022.4.28	2023.4.27

## 6. Test configuration diagram



Test step flow:

- 1) Maintain the test ambient temperature of  $23 \pm 2$  C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;

- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

#### 7. Antenna gain

Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	1.821106	-3.86629	41.05545
2410	1.74341	-4.06439	39.22483
2420	1.653085	-4.33609	36.84603
2430	1.369446	-4.59166	34.74034
2440	1.614426	-4.47898	35.65345
2450	1.93	-4.08717	39.01959
2460	1.901312	-4.07674	39.11346
2470	1.649446	-4.40487	36.26712
2480	1.320812	-4.48629	35.5935
2490	1.02555	-4.81996	32.9613
2500	0.724507	-4.88618	32.46254

## 8. Antenna test data

