

Jabra END080W Antenna report

Revision: 1

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Manufacturer: GN Audio A/S

Revision History:

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Revision	Date	Change by	Description		
1	2023.09.19	Luisa Gong	First Revision		

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1 Introduction

This document describes the radiation performance measurements made on a Jabra Wukong-C. The measurement results provided in this report are: the total radiated power at three frequencies and the antenna radiation patterns at three frequencies in free space(the measurement contains computer, the dongle need to be connected to computer to power on).

The measurements have been performed by:

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RF Engineer

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2 Specification

2.1 Electrical Properties

Frequency Range: 2.402GHz ~2.480GHz

 $\begin{array}{ll} \text{Impedance:} & 50 \; \Omega \; \text{nominal} \\ \text{Radiation:} & \text{omni-directional} \end{array}$

2.2 Physical Properties

Type: Stamp antenna

Operating temp: $-20 \sim +60 \, ^{\circ}\text{C}$

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3 Anechoic Chamber



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4 Results

4.1 Conducted power

Results:

a conducted output power of 10dBm on each channel.

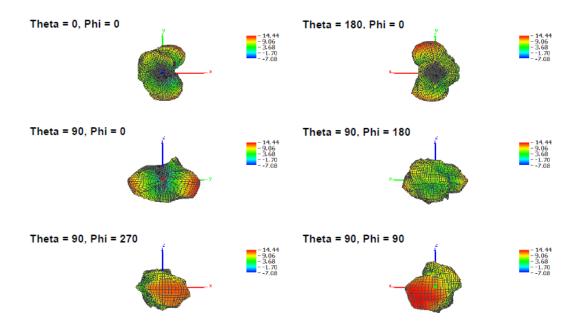
4.2 Total radiated power

Channel	0	39	78
Frequency[MHz]	2402	2441	2480
Peak Equivalent isotropic radiated power (EIRP)	14.44 dBm	13.69 dBm	13.32 dBm
Total radiated power	7.29 dBm	6.73 dBm	6.24 dBm

4.3 Antenna patterns

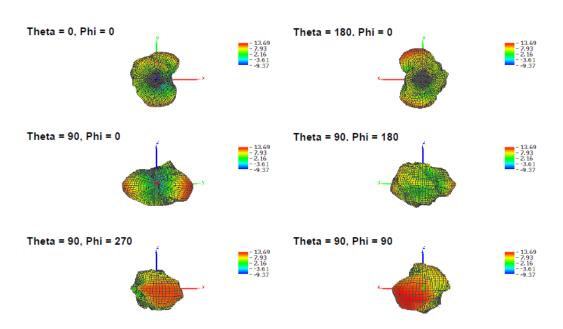
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2.402 GHz



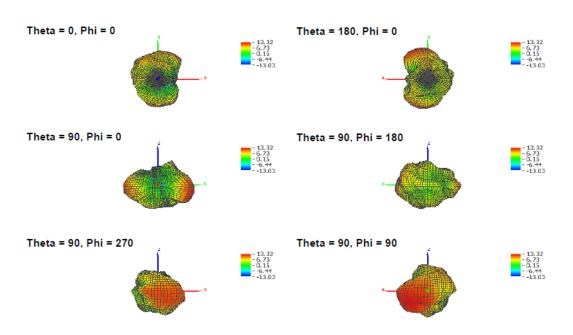
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2.441GHZ



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2.480GHZ



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5 Conclusion

The total radiated power from the Jabra Wukong-C varies from 6.24 dBm to 7.29 dBm in free space depending on the frequency. The conducted power is 10 dBm. These figures yield an antenna gain(peak) in the range of 3.32 dBi and 4.44 dBi.

	2402 MHz	2440 MHz	2480 MHz
Conducted power	10 dBm	10 dBm	10 dBm
Peak Equivalent isotropic radiated power (EIRP)	14.44 dBm	13.69 dBm	13.32 dBm

	2402 MHz	2440 MHz	2480 MHz
Antenna gain (Peak)	4.44 dBi	3.69 dBi	3.32 dBi

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