



Jabra END085W Antenna report

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Author: Luisa Gong
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Revision History:

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-A. 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:

Luisa Gong

RF Engineer

GN Audio A/S

2 Specification

2.1 Electrical Properties

Frequency Range:	2.402GHz ~2.480GHz
Impedance:	50 Ω nominal
Radiation:	omni-directional

2.2 Physical Properties

Type: PCB antenna

Operating temp: -20 ~ +60 °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.

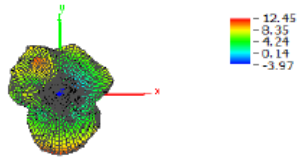
4.2 Total radiated power

Channel	0	39	78
Frequency[MHz]	2402	2441	2480
Peak Equivalent isotropic radiated power (EIRP)	12.45 dBm	12.91 dBm	12.32 dBm
Total radiated power	6.21 dBm	6.03 dBm	5.6 dBm

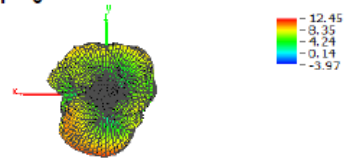
4.3 Antenna patterns

2.402 GHz

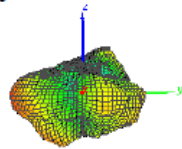
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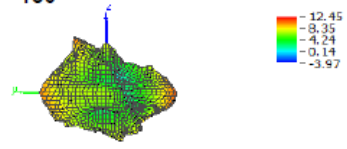
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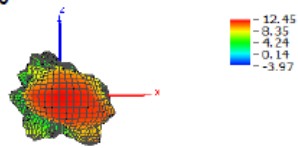
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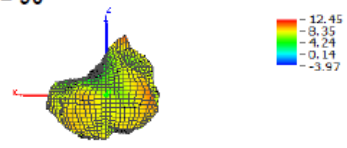
Theta = 90, Phi = 180



Theta = 90, Phi = 270



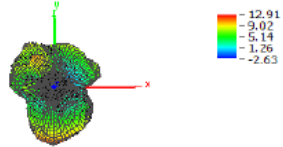
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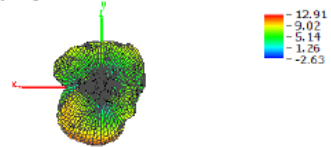
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2.441GHZ

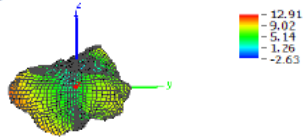
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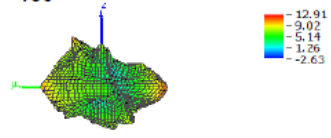
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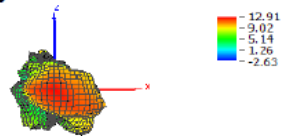
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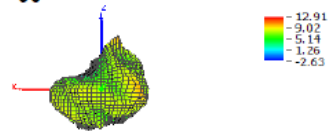
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

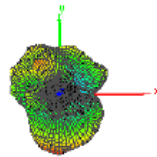


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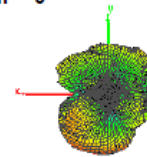
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2.480GHZ

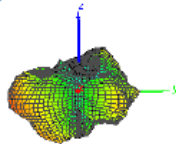
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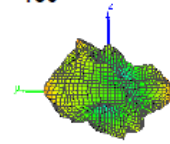
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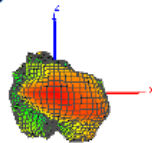
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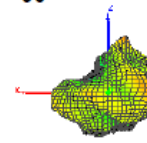
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90



5 Conclusion

The total radiated power from the Jabra Wukong-A varies from 5.6 dBm to 6.21 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 2.32 dBi and 2.91 dBi.

	2402 MHz	2440 MHz	2480 MHz
Conducted power	10 dBm	10 dBm	10 dBm
Peak Equivalent isotropic radiated power (EIRP)	12.45 dBm	12.91 dBm	12.32 dBm

	2402 MHz	2440 MHz	2480 MHz
Antenna gain (Peak)	2.45 dBi	2.91 dBi	2.32 dBi

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