

RF Exposure REPORT

FCC ID: 2AJYS-WIRELESS2

Product: Bluetooth Earphone

Model No.: Earbud Plus Wireless II

Additional Model No.: N/A

Trade Mark: Happy Plugs

Report No.: TCT180827E040

Issued Date: Sep. 27, 2018

Issued for:

Happy Plugs AB

Kungsgatan 4B, 1 tr, 111 43 Stockholm, Sweden

Issued By:

Shenzhen Tongce Testing Lab.

**1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,
Shenzhen, Guangdong, China**

TEL: +86-755-27673339

FAX: +86-755-27673332

Note: This report shall not be reproduced except in full, without the written approval of Shenzhen Tongce Testing Lab. This document may be altered or revised by Shenzhen Tongce Testing Lab. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

TABLE OF CONTENTS

1. Test Certification	3
2. EUT Description.....	4
3. Facilities and Accreditations	5
3.1. Facilities	5
3.2. Location	5
4. Technical Requirements Specification	6

1. Test Certification

Product:	Bluetooth Earphone
Model No.:	Earbud Plus Wireless II
Additional Model No.:	N/A
Trade Mark:	Happy Plugs
Applicant:	Happy Plugs AB
Address:	Kungsgatan 4B, 1 tr, 111 43 Stockholm, Sweden
Manufacturer:	Happy Plugs AB
Address:	Kungsgatan 4B, 1 tr, 111 43 Stockholm, Sweden
Date of Test:	Aug. 28, 2018 – Sep. 26, 2018
Applicable Standards:	47 CFR Part 1.1307 47 CFR Part 1.1310

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Rleo

Date:

Sep. 26, 2018

Reviewed By:



Beryl Zhao

Date:

Sep. 27, 2018

Approved By:



Tomsin

Date:

Sep. 27, 2018

2. EUT Description

Product:	Bluetooth Earphone
Model No.:	Earbud Plus Wireless II
Additional Model:	N/A
Trade Mark:	Happy Plugs
Hardware Version:	V2.0
Software Version:	V2.0
Operation Frequency:	2402MHz~2480MHz
Transfer Rate:	1/2/3 Mbits/s
Number of Channel:	79
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology:	FHSS
Antenna Type:	PCB Antenna
Antenna Gain:	-0.58dBi
Power Supply:	Rechargeable Li-ion battery DC 3.7V

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

3.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

4. Technical Requirements Specification

§2.1093 Radiofrequency radiation exposure evaluation: Portable Devices.

According to §15.247(i) and §1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidance.

The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)
CH 00	2.402	-0.5 \pm 1	0.5	1.12
CH 39	2.441	-0.8 \pm 1	0.2	1.05
CH 78	2.480	-2 \pm 1	-1	0.79

Channel	Frequency (GHz)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	Exclusion thresholds for 1-g SAR
CH 00	2.402	0.5	1.12	5	0.35	3.0

*******END OF REPORT*******