

HEALTH TEST REPORT

True wireless earbuds

Test Model:

Additional Model No.: N/A

Prepared for :
Address :

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101,601, Xingyuan Industrial Park, Tongda Road, Bao' an
Avenue, Bao' an District, Shenzhen, Guangdong, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : August 08, 2019
Number of tested samples : 1
Serial number : Prototype
Date of Test : August 08, 2019 ~ August 30, 2019
Date of Report : September 03, 2019



HEALTH TEST REPORT**EN 62479: 2010**

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).

Report Reference No. : **LCS190717054AEC****Date of Issue** : September 03, 2019**Testing Laboratory Name** : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address** : 101,601, Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China**Testing Location/ Procedure** : Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐**Applicant's Name**..... :**Address** :**Test Specification****Standard** : EN 62479: 2010**Test Report Form No.** : LCSEMC-1.0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test Item Description. : **True wireless earbuds****Trade Mark** : N/A**Test Model** :**Ratings** : DC 3.7V by Battery(35mAh)
Recharge Voltage: DC 5V**Result** : **Positive****Compiled by:**

Camille Li

Camille Li/ Administrators

Supervised by:

Aking Jin

Aking Jin / Technique principal

Approved by:

Gavin Liang/ Manager

HEALTH -- TEST REPORT**Test Report No. : LCS190717054AEC**September 03, 2019
Date of issue

Test Model..... : XO-9606-1

EUT..... : True wireless earbuds

Applicant..... :

Address..... :

Telephone..... :

Fax..... :

Manufacturer..... :

Address..... :

Telephone..... :

Fax..... :

Factory..... :

Address..... :

Telephone..... :

Fax..... :

Test Result**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	September 03, 2019	Initial Issue	Gavin Liang

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	:	True wireless earbuds
Test Model	:	
Additional Model No.	:	N/A
Model Declaration	:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power Supply	:	DC 3.7V by Battery(35mAh) Recharge Voltage: DC 5V
Hardware Version	:	/
Software Version	:	/
Bluetooth		
Frequency Range	:	2.402-2.480GHz
Channel Number	:	79 channels for Bluetooth V5.0 (BDR/EDR)
Channel Spacing	:	1MHz for Bluetooth V5.0 (BDR/EDR)
Modulation Type	:	GFSK, $\pi/4$ -DQPSK for Bluetooth V5.0 (BDR/EDR)
Bluetooth Version	:	V5.0
Antenna Description	:	PCB Antenna, 0dBi (Max.)

1.2. Objective

According to its specifications, the EUT must comply with the requirements of the following standards:
EN 62479: 2010 –Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

1.3. Test Methodology

All measurements contained in this report were conducted with EN 62479: 2010.

1.4. Description of Test Facility

FCC Registration Number is 254912.
Industry Canada Registration Number is 9642A-1.
EMSD Registration Number is ARCB0108.
UL Registration Number is 100571-492.
TUV SUD Registration Number is SCN1081.
TUV RH Registration Number is UA 50296516-001.
NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier: CN0071

1.5. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Lenovo	Notebook	B470	WB05067151	CE
Lenovo	AC/DC ADAPTER	ADP-90DD B	36001941	CE

1.6. External I/O

I/O Port Description	Quantity	Cable
--	--	--

1.7. Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

1.8. Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	5 %
RF output power, conducted	1,5 dB
Power Spectral Density, conducted	3 dB
Unwanted Emissions, conducted	3 dB
All emissions, radiated	6 dB
Temperature	1 °C
Humidity	5 %
DC and low frequency voltages	3 %
Time	5 %
Duty Cycle	5 %

2. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

2.1 Test Methodology

2.1.1. General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:
EN 62479- Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

2.1.2. Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

2.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

2.3 Test Results

Since Max. output power for Bluetooth is 1.97mW (2.94dBm According to radio test report LCS190717054AEB) less than 20mW specified in EN 62479. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

The unit complies with the EN 62479 for RF exposure requirement.

No non-compliance noted.

-----THE END OF REPORT-----