HEALTH TEST REPORT

For

DongGuan Kemi Electronics Technology Co., Ltd

Bluetooth headset

Test Model: X7

Additional Model No.: X10, X11, X13, X7pro

Prepared for	:	DongGuan Kemi Electronics Technology Co., Ltd
Address	:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
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Web	:	www.LCS-cert.com
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Date of receipt of test sample	:	April 01, 2024
Number of tested samples	:	2
Sample No.	:	A240407032-1, A240407032-2
Serial number	:	Prototype
Date of Test	:	April 01, 2024 ~ April 23, 2024
Date of Report	:	April 24, 2024

CE

HEALTH TEST REPORT
EN 62479: 2010 & EN 50663: 2017

Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

Report Reference No.	:	**LCSA03284010EC**
Date of Issue.....	:	April 24, 2024
Testing Laboratory Name.....	:	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address.....	:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, 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.....	:	**DongGuan Kemi Electronics Technology Co., Ltd**
Address.....	:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China
Test Specification		
Standard.....	:	EN 62479: 2010 EN 50663: 2017
Test Report Form No.	:	LCSEMC-1.0
TRF Originator.....	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	:	Dated 2011-03

Test Item Description.....	:	**Bluetooth headset**
Trade Mark.....	:	N/A
Test Model.....	:	X7
Ratings	:	Input: DC 5V, 180mA Battery: 3.7V⎓200mAh
Result	:	**Positive**

Compiled by:	Supervised by:	Approved by:
Martin Lee	Cary Luo	
Martin Lee/ Administrator	Cary Luo/ Technique principal	Gavin Liang/ Manager

HEALTH --TEST REPORT

Test Report No. : LCSA03284010EC	April 24, 2024 Date of issue

Test Model	:	X7
EUT.....	:	Bluetooth headset
Applicant.....	:	**DongGuan Kemi Electronics Technology Co., Ltd**
Address.....	:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China
Telephone.....	:	/
Fax.....	:	/
Manufacturer.....	:	**DongGuan Kemi Electronics Technology Co., Ltd**
Address.....	:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China
Telephone.....	:	/
Fax.....	:	/
Factory.....	:	**DongGuan Kemi Electronics Technology Co., Ltd**
Address.....	:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China
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

Report Version	Issue Date	Revision Content	Revised By
000	April 24, 2024	Initial Issue	--

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	:	Bluetooth headset
Test Model	:	X7
Additional Model No.	:	X10, X11, X13, X7pro
Model Declaration	:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	:	Input: DC 5V, 180mA Battery: 3.7V⎓200mAh
Hardware Version	:	V02
Software Version	:	/
Bluetooth	:	
Frequency Range	:	2402MHz~2480MHz
Channel Number	:	79 channels for Bluetooth V5.4 (BDR/EDR)
Channel Spacing	:	1MHz for Bluetooth V5.4 (BDR/EDR)
Modulation Type	:	GFSK, π/4-DQPSK for Bluetooth V5.4 (BDR/EDR)
Bluetooth Version	:	V5.4
Antenna Description	:	Ceramics Antenna, 2.5dBi(Max.)

1.2. Objective

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)
EN 50663- Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz).

1.3. Test Methodology

All measurements contained in this report were conducted with EN 62479: 2010 and EN 50663: 2017.

1.4. Facilities

All measurement facilities used to collect the measurement data are located at Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China .
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.5. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO., LTD	Power Adapter	TPA-46050200UU	--	CE

Note: Auxiliary equipment is provided by the laboratory.

1.6. External I/O

I/O Port Description	Quantity	Cable
Power Port	1	N/A

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. Laboratory Accreditations And Listings

Site Description		
EMC Lab.	:	NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595.
Name of Firm	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Site Location	:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao’an District, Shenzhen, Guangdong, China

1.9. Measurement Uncertainty

Test Item		Uncertainty
Radio Frequency	:	0.9×10^{-4}
Total RF Power, Conducted	:	1.0 dB
RF Power Density, Conducted	:	1.8 dB
Spurious Emissions, Conducted	:	1.8 dB
All Emissions, Radiated	:	3.1 dB
Temperature	:	0.5°C
Humidity	:	1 %
DC And Low Frequency Voltages	:	1 %

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)
EN 50663- Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 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 mW then the apparatus is deemed to comply with the basic restrictions without testing.

2.3 Test Results

Since Max. output power for Bluetooth is 1.74mW (2.4dBm According to radio test report LCSA03284010EB) less than 20mW specified in EN 62479 and EN 50663. 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 and EN 50663 for RF exposure requirement.

No non-compliance noted.

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