



HEALTH TEST REPORT

For

DongGuan Kemi Electronics Technology Co., Ltd

Bone conductive headphones

Test Model: S18

Additional Model No.: Please Refer to Page 5

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
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Date of receipt of test sample : August 16, 2024
Number of tested samples : 2
Sample No. : A240814120-1, A240814120-2
Serial number : Prototype
Date of Test : August 16, 2024 ~ August 26, 2024
Date of Report : August 27, 2024





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

Report Reference No.	: LCSA08154014EC
Date of Issue	: August 27, 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 <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
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.	: TRF-4-E-155 A/0
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2011-03
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Test Item Description.	: Bone conductive headphones
Trade Mark	: N/A
Test Model	: S18
Ratings	: Input: DC 5V, 150mA DC 3.8V by Rechargeable Li-ion Battery, 170mAh
Result	: Positive

Compiled by:

Nadia Zhou

Nadia Zhou/ Administrator

Supervised by:

Cary Luo

Cary Luo/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager



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 Scan code to check authenticity



HEALTH --TEST REPORT

Test Report No. : LCSA08154014EC	<u>August 27, 2024</u> Date of issue
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Test Model	: S18
EUT.....	: Bone conductive headphones
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
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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	August 27, 2024	Initial Issue	---





1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	: Bone conductive headphones
Test Model	: S18
Additional Model No.	: G18, X20, X21, Y18, X18, DaiLing S900, Beta pro
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: Input: DC 5V, 150mA DC 3.8V by Rechargeable Li-ion Battery, 170mAh
Hardware Version	: v02
Software Version	: v02
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, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.4 (BDR/EDR)
Bluetooth Version	: V5.4
Antenna Description	: Ceramic Antenna, 1.7dBi(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)

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).

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 32.

1.5. Support Equipment List

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

Note: The adapter is supplied by lab and only use tested.

1.6. External I/O Cable

I/O Port Description	Quantity	Cable
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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 x 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 2.14mW (3.31dBm According to radio test report LCSA08154014EB) 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-----



Shenzhen LCS Compliance Testing Laboratory Ltd.

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