

TEST REPORT

Reference No...... : WTD22D01004927W002 V1
FCC ID : 2A4BESHBPBZ01-029
Applicant..... : Lifeware Group LLC
Address..... : 255 5th Ave, 5th FL, New York, NY 10016, USA
Manufacturer : Lifeware Group LLC
Address..... : 255 5th Ave, 5th FL, New York, NY 10016, USA
Product..... : Wireless Headphones
Model(s) : SHPBZ01-029, SHPBZ03-030, SHPBZ06-031, SHPBZ19-032, SHPBZ01-013, SHPBZ10-014, SHPBZ21-015, SHPBZ21-011, SHPBZ01-012, SHPBZ10-018, SHPBZ01-005, SHPBZ14-006, SHPBZ48-007, SHPBZ21-033, SHPBL01-034, SHPBL11-035, SHPBL10-036, SHPBL16-037, SHPBL02-038, SHPBL01-039, SHPBL00-040, SHPBL48-041, SHPBL10-042, SHPBZ01-019, SHPBZ00-020, SHPBZ48-021, SHPBZ11-043, SHPBL01-044, SHPBL00-045, SHPBL10-046, THPBL01-047, THPBL10-048, THPBL06-049, THPBL19-050, THPBL01-051, THPBL10-052, THPBL19-053, THPBL02-054, THPBL11-055, SHPBZ21-022, SHPBZ01-023, SHPBZ03-024, SHPBZ01-003, SHPBZ49-004, SHPBZ19-017, SHPBZ01-001, SHPBZ00-002, SHPBZ48-016, SHPBZ01-008, SHPBZ10-009, SHPBZ19-010, SHPBZ01-019, SHPBZ00-020, SHPBZ48-021
Standards..... : FCC Part 2.1093
Date of Receipt sample : 2022-01-18
Date of Test : 2022-01-18 to 2022-01-21
Date of Issue..... : 2022-02-08
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3. Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD22D01004927 W002	2022-01-18	2022-01-18 to 2022-01-21	2022-01-21	Original	-	Replaced
WTD22D01004927 W002 V1	2022-01-18	2022-01-18 to 2022-01-21	2022-02-08	Version 1	Updated	Valid

4. General Information

4.1. General Description of E.U.T.

Product:	Wireless Headphones
Model(s):	SHPBZ01-029, SHPBZ03-030, SHPBZ06-031, SHPBZ19-032, SHPBZ01-013, SHPBZ10-014, SHPBZ21-015, SHPBZ21-011, SHPBZ01-012, SHPBZ10-018, SHPBZ01-005, SHPBZ14-006, SHPBZ48-007, SHPBZ21-033, SHPBL01-034, SHPBL11-035, SHPBL10-036, SHPBL16-037, SHPBL02-038, SHPBL01-039, SHPBL00-040, SHPBL48-041, SHPBL10-042, SHPBZ01-019, SHPBZ00-020, SHPBZ48-021, SHPBZ11-043, SHPBL01-044, SHPBL00-045, SHPBL10-046, THPBL01-047, THPBL10-048, THPBL06-049, THPBL19-050, THPBL01-051, THPBL10-052, THPBL19-053, THPBL02-054, THPBL11-055, SHPBZ21-022, SHPBZ01-023, SHPBZ03-024, SHPBZ01-003, SHPBZ49-004, SHPBZ19-017, SHPBZ01-001, SHPBZ00-002, SHPBZ48-016, SHPBZ01-008, SHPBZ10-009, SHPBZ19-010, SHPBZ01-019, SHPBZ00-020, SHPBZ48-021
Model difference:	Only the model name are difference. The test sample model is SHPBZ01-012.
Operation Frequency:	2402-2480MHz, 79 Channels in total
Max. RF output power:	4.18dBm
Antenna installation:	PCB Printed Antenna
Antenna Gain:	0dBi
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Hardware Version:	5.0
Software Version:	5.0

4.2. Details of E.U.T.

Ratings:	DC 5V(External Power Supply or AC/DC adapter to charging) DC 3.7V(Working)
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4.3. Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	FCC Part 2.1093	PASS

6. RF Exposure

Test Requirement: FCC Part 2.1093

Test Mode: The EUT work in test mode(Tx).

6.1. Requirements& procedures

According to § 15.247 (i) and § 1.1307(b)(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 guidelines.

The 1-g and 10-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 and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

6.2. MPE Calculation Method

FCC Part 2.1093:

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

6.3. Test Result

FCC Part 2.1093:

A distance of 5mm normally can be maintained between the user and the device.

Modulation	CH	Freq. (GHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
8DPSK	High	2.480	4.18	3.0 ± 1.5	4.5	2.82	0.89	3

====End of Report=====