





RF Exposure Report

FCC ID: 2AAGF-JUNO

Applicant: Zound Industries International AB

Address: Centralplan 15 SE-111 20 Stockholm Sweden

Manufacturer: Zound Industries International AB

Address: Centralplan 15 SE-111 20 Stockholm Sweden

Product(s): True Wireless Headphones

Brand: URBANEARS

Test Model(s): Urbanears Juno

Series Model(s): N/A

Test Date: Aug. 30, 2022~ Sep. 14, 2022

Issued Date: Sep. 26, 2022

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang

Town, Dongguan, China

Test Firm Registration No.: 915896

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10:2013

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

Reviewed by:

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Tank Tai

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Approved by:

Scott He

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Table of contents

se control record	3
General Information	
RF exposure limit	5
Calculation	5
Calculation SAR test exclusion thresholdsndix – Information on the Testing Laboratories	
	General Information General Description of EUT RF exposure limit Calculation Calculation SAR test exclusion thresholds

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Release control record

Issue No.	Reason for change	Date issued	
220818EL08-SE-US-01	Original Release	Sep. 26, 2022	

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1 General Information

1.1 General Description of EUT

Product	True Wireless Headphones
Brand	URBANEARS
Sample No.	HS220819-04-11
Test Model(s)	Urbanears Juno
Series Model(s)	N/A
Status of EUT	Engineering Prototype
Power Supply Rating	Charge case: Input: DC 5V, 500mA from USB or DC 3.7V from battery; Output: DC 5V, 100mA×2 Each Headphone: Input: DC 5V 100mA from Charge case or DC 3.85V from battery
Modulation Type	GFSK, π/4 DQPSK, 8DPSK for FHSS
Transfer Rate	1/2/3Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	79
Output Power (Average)	BLE: L: 0.962dBm R: 0.933dBm EDR: L: 3.523dBm R: 4.926dBm
Antenna Type	FPC Antenna
Antenna Gain	L: 1.78dBi R: -0.5dBi
Antenna Connector	N/A
Accessory Device	N/A

Note:

- 1. Please refer to the EUT photo document (Reference No.: 220818EL08-01&-02) for detailed product photo.
- 2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

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HWA-HSING Test Report No.: 220818EL08-SE-US-01

2 RF exposure limit

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- > f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

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

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)-(f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and \leq 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3 Calculation

The antenna of this product, under normal use condition, is at less than 5mm away from the body of the user.

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4 Calculation SAR test exclusion thresholds

Left

The measured of Maximum RF Conduted Power

Mode	Frequency (MHz)	Maximum RF Power (dBm)
BT GFSK	2402-2480	3.523
BT 8DPSK	2402-2480	1.644
BLE	2402-2480	0.962

The tuned Power (declared by client)

The talled I ewel (declared by ellerit)						
Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm) Lower Tolerance (dBm)		Upper Tolerance (dBm)	
BT GFSK	2402-2480	2	±2	0	4	
BT 8DPSK	2402-2480	2	±2	0	4	
BLE	2402-2480	0	±2	-2	2	

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power(dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	4	5	1.40	3.0	7.5	Exempt from SAR

Conclusion: Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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Right

The measured of Maximum RF Conduted Power

The medealed of maximum fit Conduced Forter					
Mode	Frequency (MHz)	Maximum RF Power (dBm)			
BT GFSK	2402-2480	4.926			
BT 8DPSK	2402-2480	4.018			
BLE	2402-2480	0.933			

The tuned Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT GFSK	2402-2480	3	±2	1	5
BT 8DPSK	2402-2480	3	±2	1	5
BLE	2402-2480	0	±2	-2	2

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power(dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	5	5	1.77	3.0	7.5	Exempt from SAR

Conclusion: Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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Appendix - Information on the Testing Laboratories

We, <u>Hwa-Hsing (Dongguan) Co., Ltd.</u>, A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values "HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT", commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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