

RF Exposure Evaluation Report

FCC ID : TTUBEOPLAYPL
Equipment : Wireless Gaming Headphones
Brand Name : Bang & Olufse
Model Name : Beoplay Portal
Applicant : Bang & Olufsen A/S
Bang og Olufsen Allé 1, 7600 Struer, Denmark
Manufacturer : Bang & Olufsen A/S
Bang og Olufsen Allé 1, 7600 Struer, Denmark
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1093

The product was received on Nov. 06, 2020, and testing was started from Nov. 18, 2020 and completed on Nov. 19, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

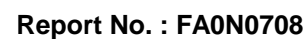
SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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Table of Contents

1. General Description.....	4
1.1. EUT General Information	4
1.2. Table for Multiple Listing	4
1.3. Testing Location Information	4
2. RF Exposure Evaluation	5
2.1. Applicable Standard	5
2.2. SAR evaluation	5

Photographs of EUT V01

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Report Producer: Michelle Tsai

1. General Description

1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5700 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Bluetooth	2400-2483.5	2402-2480	BR / EDR: FHSS (GFSK / $\pi/4$ -DQPSK / 8DPSK) LE: DSSS (GFSK)

1.2. Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Sample	Description
Beoplay Portal	1	There are two samples of EUT, the only difference is the color of appearance.
	2	

Note: Sample 2 configuration was measured during the test.

1.3. Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		
<input type="checkbox"/>	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL : 886-3-318-0787 FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.		

2. RF Exposure Evaluation

2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2. SAR evaluation

- Per FCC KDB 447498 D01 v06, 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

- $f_{(\text{GHz})}$ 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

Evaluation Mode	Max. Power	Tolerance	Tune-up Max. Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
	(dBm)		(dBm)	(mW)			
2.4GHz WLAN	5.22	1.5	6.72	4.70	22.2	2.417	0.33
5GHz WLAN	5.22	1.5	6.72	4.70	22.2	5.26	0.49
Bluetooth	1.23	1.5	2.73	1.87	22.2	2.48	0.13

Note: Per FCC KDB 447498 D01 v06 exclusion thresholds is $0.49 < 3$, RF exposure evaluation is not required.

Evaluation Mode	Max. Power	Tolerance	Tune-up Max. Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
	(dBm)		(dBm)	(mW)			
2.4GHz WLAN	5.22	1.5	6.72	4.70	9.5	2.417	0.77
5GHz WLAN	5.22	1.5	6.72	4.70	9.5	5.26	1.13
Bluetooth	1.23	1.5	2.73	1.87	9.5	2.48	0.31

Note: Per FCC KDB 447498 D01 v06 exclusion thresholds is $1.13 < 7.5$, RF exposure evaluation is not required.

————THE END————