

# RF EXPOSURE EVALUATION REPORT

FCC ID : TTUBEOPLAYE8SL  
Equipment : Bluetooth Earphone  
Brand Name : Bang & Olufsen  
Model Name : E8 Sport Earbud L  
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 Part 2.1093  
FCC KDB 447498 D01 v06

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1093 and it complies with applicable limit.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The 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: Cona Huang / Deputy Manager

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## **History of this test report**

Report No.	Version	Description	Issued Date
FA010601-01	Rev. 01	Initial issue of report	May 05, 2020

## 1. General Information

### 1.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	Bluetooth Earphone
Brand Name	Bang & Olufsen
Model Name	E8 Sport Earbud L
FCC ID	TTUBEOPLAYE8SL
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	Bluetooth BR/EDR/LE
DUT Stage	Identical Prototype

**Remark:** The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

**Reviewed by:** Jason Wang

**Report Producer:** Wan Liu

## 2. Maximum RF output power among production units

Mode	Average power (dBm)		
	1Mbps	2Mbps	3Mbps
Bluetooth Tune-up Limit	9.50	9.50	9.50

Mode	Average power (dBm)	
	1Mbps	2Mbps
BLE Tune-up Limit	9.50	9.50



### **3. RF Exposure Evaluation**

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
9.5	8.91	5	2.48	2.81

**Note:**

1. Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  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  $\leq 7.5$  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

**Conclusion:** Per KDB 447498 D01v06, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 2.81 which is  $\leq 3$ , SAR testing is not required.