# RF Exposure Evaluation Report

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|---|---|---|
| **FCC ID** | : | **TTUBEOPLAYEQC** |
| **Equipment** | : | **Charging Case** |
| **Brand Name** | : | **Bang & Olufsen** |
| **Model Name** | : | **EQ Charging case** |
| **Applicant** | : | **Bang & Olufsen A/S**<br>**Bang og Olufsen Allé 1, 7600 Struer, Denmark** |
| **Manufacturer** | : | **Bang & Olufsen A/S**<br>**Bang og Olufsen Allé 1, 7600 Struer, Denmark** |
| **Standard** | : | **47 CFR Part 2.1093** |

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

**Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.**

**Approved by: Cona Huang / Deputy Manager**

Testing Laboratory 1190

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# Revision History

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FA090313-01 | Rev. 01 | Initial issue of report | Jan. 06, 2021 |
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# 1. General Information

## 1.1 Description of Device Under Test (DUT)

| Product Feature & Specification | |
|---|---|
| DUT Type | Charging Case |
| Brand Name | Bang & Olufsen |
| Model Name | EQ Charging case |
| FCC ID | TTUBEOPLAYEQC |
| Wireless Technology and Frequency Range | Bluetooth: 2402 MHz ~ 2480 MHz |
| Mode | Bluetooth LE |
| Antenna Type | Bluetooth: Printed antenna<br>WPC RX: coil |
| 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.

# 2. Maximum RF output power among production units

| Mode | Maximum Output Power (dBm) |
|---|---|
| Bluetooth LE | 0 |

# 3. RF Exposure Evaluation

| Bluetooth Max Power (dBm) | mW | Separation Distance (mm) | Frequency (GHz) | Exclusion Thresholds |
|---|---|---|---|---|
| 0 | 3.98 | 5 | 2.48 | 0.31 |

**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* ≤ 50 mm are determined by:

   [(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

   - 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

**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 0.31 which is <= 3, SAR testing is not required.