

# RF Exposure Evaluation Report

**FCC ID** : 2A4CASOLITAIRET  
**Equipment** : Wireless Headphones  
**Brand Name** : T+A  
**Model Name** : Solitaire T  
**Applicant** : T+A Elektroakustik GmbH & Co.KG  
Planckstr. 9 – 11, 32052 Herford, Germany  
**Manufacturer** : T+A Elektroakustik GmbH & Co.KG  
Planckstr. 11, 32052 Herford, Germany  
**Standard** : 47 CFR FCC Part 2 Subpart J, section 2.1093

The product was received on Jan. 12, 2022, and testing was started from Jan. 19, 2022 and completed on Jan. 19, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB 447498 D04 Interim General RF Exposure Guidance v01 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



## Table of Contents

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

### Photographs of EUT V01

### History of This Test Report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FA211124   | 01      | Initial issue of report | Apr. 22, 2022 |
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**Reviewed by: Ben Tseng**

**Report Producer: Anne Kuo**

## 1. General Description

### 1.1. EUT General Information

| RF General Information |                       |                           |   |
|------------------------|-----------------------|---------------------------|---|
| Evaluation Mode        | Frequency Range (MHz) | Operating Frequency (MHz) | Modulation Type   |
| Bluetooth              | 2400-2483.5           | 2402-2480                 | BR / EDR: FHSS (GFSK / $\pi/4$ -DQPSK / 8DPSK)<br>LE: DSSS (GFSK) |

### 1.2. Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory |                             |   |                     |
|---|-----------------------------|---|---------------------|
| <input checked="" type="checkbox"/>                       | Hsinhua<br>(TAF: 3785)      | ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)          |                     |
|   |                             | TEL: 886-3-327-3456   | FAX: 886-3-327-0973 |
| Test site Designation No. TW3785 with FCC.                |                             |   |                     |
| <input type="checkbox"/>                                  | Wen 33rd.St.<br>(TAF: 3785) | ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) |                     |
|   |                             | TEL: 886-3-318-0787   | FAX: 886-3-318-0287 |
| Test site Designation No. TW0008 with FCC.                |                             |   |                     |

### 1.3. Table for Multiple Listing

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

| Model Name  | Sample | Enclosure Color |
|-------------|--------|-----------------|
| Solitaire T | 1      | White           |
|             | 2      | Black           |

## 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 KDB 447498 D04 Interim General RF Exposure Guidance v01, Option (B): 1.1307(b)(3)(i)(B): Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater,  $\leq P_{th}$ .

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

$d$  = the separation distance (cm);

| Mode        | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Distance (cm) | Option | TL EIRP (dBm) |
|-------------|----------|-------------|------------|----------------|--------------------|---------------|--------|---------------|
| 2.4G;BT-BR  | 0.60     | 3.15        | 3.75       | 0.50           | 4.25               | 0.5           | B      | 6.601         |
| 2.4G;BT-EDR | 0.60     | 3.10        | 3.70       | 0.50           | 4.20               | 0.5           | B      | 6.601         |
| 2.4G;BT-LE  | 0.60     | 3.34        | 3.94       | 0.50           | 4.44               | 0.5           | B      | 6.601         |

- Per KDB 447498 D04 Interim General RF Exposure Guidance v01 exclusion thresholds is  $4.44 < 6.601$ , RF exposure evaluation is not required.

—THE END—