



# **FCC TEST REPORT**

**Test report  
On Behalf of  
TZUMI Electronics, LLC  
For  
PHONE SANITIZER WITH WIRELESS CHARGING  
Model No.: 7566**

**FCC ID: 2AON77566**

**Prepared for : TZUMI Electronics, LLC  
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**Date of Test: Jul. 15, 2020 ~ Jul. 22, 2020**

**Date of Report: Jul. 22, 2020**

**Report Number: HK2007221872-2E**



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

| Channel List |                 |         |                 |         |                 |         |                 |
|--------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel      | Frequency (KHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01           | 140             |         |                 |         |                 |         |                 |
|              |                 |         |                 |         |                 |         |                 |
|              |                 |         |                 |         |                 |         |                 |
|              |                 |         |                 |         |                 |         |                 |

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

## 2. SUMMARY OF TEST RESULTS

### 2.1 Test procedures according to the technical standards:

FCC KDB680106 D01 RF Exposure Wireless Charging Apps v03

| FCC CFR 47                                             |                                   |          |        |
|--------------------------------------------------------|-----------------------------------|----------|--------|
| Standard Section                                       | Test Item                         | Judgment | Remark |
| FCC CFR 47 part1,<br>1.1310 KDB680106<br>D01v03 (3)(3) | Electric Field Strength (E) (V/m) | PASS     |        |
|                                                        | Magnetic Field Strength (H) (A/m) | PASS     |        |

### 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

| No. | Item                                     | Uncertainty             |
|-----|------------------------------------------|-------------------------|
| 1   | All emissions,radiated(<30M)(9KHz-30MHz) | $\pm 2.45\text{dB}$     |
| 2   | Temperature                              | $\pm 0.5^\circ\text{C}$ |
| 3   | Humidity                                 | $\pm 2\%$               |



## 2.3 Test Instruments

| Description           | Brand     | Model No. | Frequency Range | Calibrated Date | Calibrated Until |
|-----------------------|-----------|-----------|-----------------|-----------------|------------------|
| Broadband Field Meter | NARDA     | NBM-550   | -               | Dec. 26, 2019   | Dec. 25, 2020    |
| Magnetic Field Meter  | NARDA     | ELT-400   | 1 – 400kHz      | Dec. 26, 2019   | Dec. 25, 2020    |
| Magnetic Probe        | NARDA     | HF-3061   | 300kHz – 30MHz  | Dec. 26, 2019   | Dec. 25, 2020    |
| Magnetic Probe        | NARDA     | HF-0191   | 27 – 1000MHz    | Dec. 26, 2019   | Dec. 25, 2020    |
| Broadband Field Meter | NARDA     | NBM-550   | -               | Dec. 26, 2019   | Dec. 25, 2020    |
| Electric Field Meter  | COMBINOVA | EFM 200   | 5Hz – 400kHz    | Dec. 26, 2019   | Dec. 25, 2020    |
| E-Field Probe         | NARDA     | EF-0391   | 100kHz – 3GHz   | Dec. 26, 2019   | Dec. 25, 2020    |
| E-Field Probe         | NARDA     | EF-6091   | 100MHz – 60GHz  | Dec. 26, 2019   | Dec. 25, 2020    |

NOTE: 1. The calibration interval of the above test instruments is 12 months .



### 3. MAXIMUM PERMISSIBLE EXPOSURE

#### 3.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

| Limits for Occupational / Controlled Exposure         |                                   |                                   |                                          |                                                                  |
|-------------------------------------------------------|-----------------------------------|-----------------------------------|------------------------------------------|------------------------------------------------------------------|
| Frequency Range (MHz)                                 | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
| 0.3-3.0                                               | 614                               | 1.63                              | (100)*                                   | 6                                                                |
| 3.0-30                                                | 1842 / f                          | 4.89 / f                          | (900 / f)*                               | 6                                                                |
| 30-300                                                | 61.4                              | 0.163                             | 1.0                                      | 6                                                                |
| 300-1500                                              |                                   |                                   | F/300                                    | 6                                                                |
| 1500-100,000                                          |                                   |                                   | 5                                        | 6                                                                |
| Limits for General Population / Uncontrolled Exposure |                                   |                                   |                                          |                                                                  |
| Frequency Range (MHz)                                 | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
| 0.3-1.34                                              | 614                               | 1.63                              | (100)*                                   | 30                                                               |
| 1.34-30                                               | 824/f                             | 2.19/f                            | (180 / f)*                               | 30                                                               |
| 30-300                                                | 27.5                              | 0.073                             | 0.2                                      | 30                                                               |
| 300-1500                                              |                                   |                                   | F/1500                                   | 30                                                               |
| 1500-100,000                                          |                                   |                                   | 1                                        | 30                                                               |

Note 1: f = frequency in MHz ; \*Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

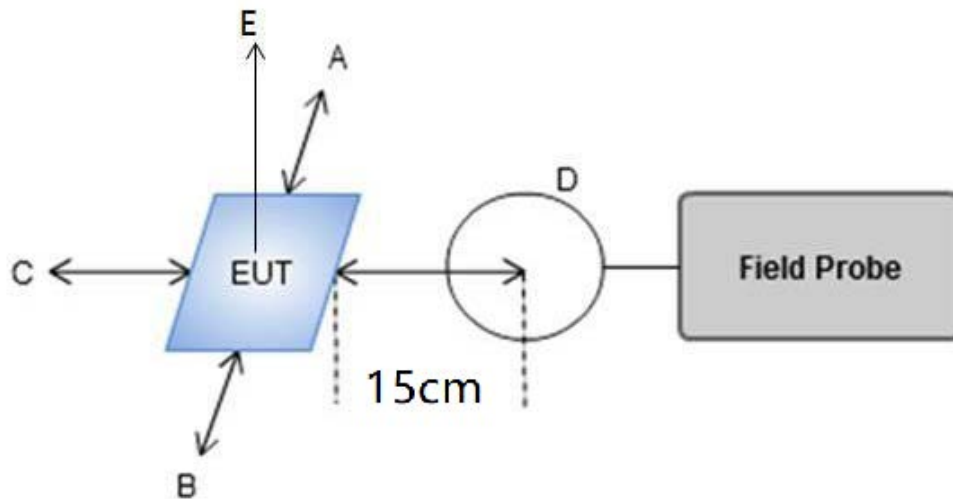
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

#### 4. TEST PROCEDURE

a. For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of (H-field & E-field strengths for all sides is 15cm, H-field strengths of top side is 20cm).

E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device.

##### 4.1 TEST SETUP



##### 4.2 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE



For Full load mode:

E-Field Strength at 15 cm from the edges surrounding the EUT (V/m)

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Limits Test (V/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 0.140                 | 1.60            | 1.45            | 1.33            | 1.47            | 1.26            | 614               |

H-Field Strength at 15 cm from the edges surrounding the EUT (A/m)

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Limits Test (A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 0.140                 | 0.70            | 0.65            | 0.28            | 0.19            | 0.44            | 1.63              |

For Half Load mode:

E-Field Strength at 15 cm from the edges surrounding the EUT (V/m)

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Limits Test (V/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 0.140                 | 1.13            | 1.46            | 1.27            | 1.74            | 1.36            | 614               |

H-Field Strength at 15 cm from the edges surrounding the EUT (A/m)

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Limits Test (A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 0.140                 | 0.34            | 0.42            | 0.28            | 0.19            | 0.51            | 1.63              |



For No load mode:

E-Field Strength at 15 cm from the edges surrounding the EUT (V/m)

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Limits Test (V/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 0.140                 | 1.25            | 1.38            | 1.64            | 1.47            | 1.69            | 614               |

H-Field Strength at 15 cm from the edges surrounding the EUT (A/m)

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Limits Test (A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 0.140                 | 0.59            | 0.63            | 0.45            | 0.48            | 0.62            | 1.63              |



## PHOTOGRAPH OF TEST



※※※※※THE END※※※※※