

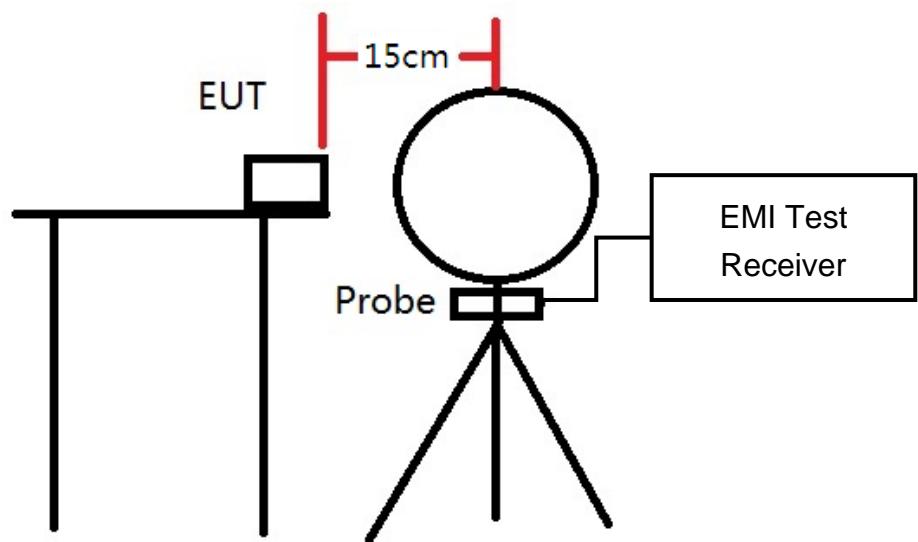
## FCC ID: X2F-WX-05 RF Exposure Report

### Test Requirement:

Environmental evaluation and exposure limit according to FCC CFR 47 Part 1.1307(b), 1.1310

According KDB 680106 D01 RF Exposure Wireless Charging App v03 and FCC CFR 47 Part 2.1091(d)(4)

### Test Setup



These testing were performed at test configuration as above diagram.

EUT was placed on a table, and the measure probe was placed at a measurement distance of 15cm from the EUT (Left, Right, Front, Rear, Bottom) to the center of the probe and 20cm from the EUT (Top) to the center of the probe.

### The procedures / limit

#### (A) 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  |

#### (B) 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          |                                   |                                   | 1.0                                      | 30   |

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

### RF Exposure Evaluations

| Test Side      | Separation Distance(cm) | Measured Result(A/m) | Limit(A/m) | Result     |
|----------------|-------------------------|----------------------|------------|------------|
| Left           | 15                      | 0.14                 | 1.63       | Compliance |
| Right          | 15                      | 0.13                 | 1.63       | Compliance |
| Front          | 15                      | 0.17                 | 1.63       | Compliance |
| Rear           | 15                      | 0.16                 | 1.63       | Compliance |
| Top            | 20                      | 0.18                 | 1.63       | Compliance |
| Bottom         | 15                      | 0.19                 | 1.63       | Compliance |
| Max Margin (%) | 11.66                   |                      | Limit (%)  | 50         |

## **EQUIPMENT APPROVAL CONSIDERATIONS**

(1) Power transfer frequency is less than 1 MHz

**Re: This device power transfer frequency range from 112~205 kHz is less than 1MHz.**

(2) Output power from each primary coil is less than or equal to 15 watts.

**Re: This device Maximum Output power is 9.9W less than 15W.**

(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

**Re: The transfer system includes only single primary and secondary coils.**

(4) Client device is placed directly in contact with the transmitter.

**Re: Client device is placed directly in contact with the transmitter.**

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

**Re: Mobile exposure conditions only.**

(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

**Re: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.**