

## 1.1 Radio Frequency Exposure Compliance

### 1.1.1 Electromagnetic Fields

FCC ID: ZBCWD-286B

RESULT:

Pass

#### Test Specification

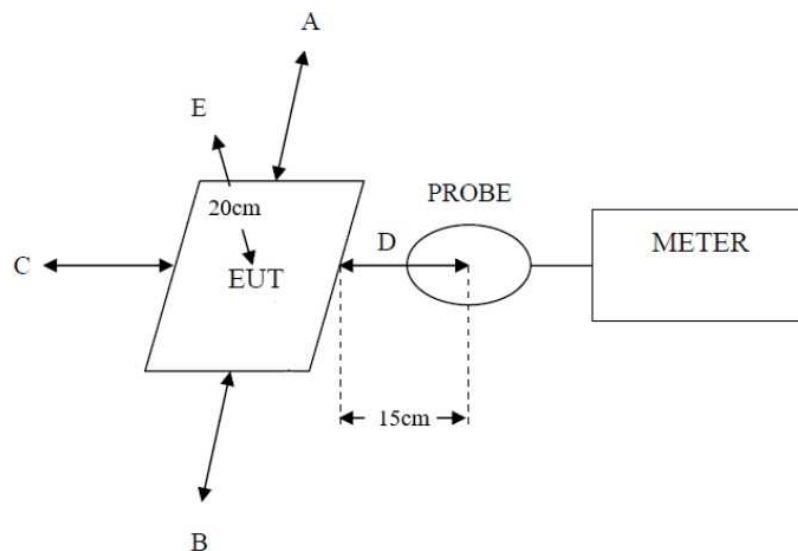
Test standard : CFR47 FCC Part 2: Subpart J Section 1.1310  
FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

According to the table 1 of FCC Part 2.1310, the reference limit as below:

| Frequency range (MHz)                                   | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|---------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposure         |                               |                               |                                     |                          |
| 0.3-3.0                                                 | 614                           | 1.63                          | *100                                | 6                        |
| 3.0-30                                                  | 1842/f                        | 4.89/f                        | *900/f <sup>2</sup>                 | 6                        |
| 30-300                                                  | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1,500                                               |                               |                               | f/300                               | 6                        |
| 1,500-100,000                                           |                               |                               | 5                                   | 6                        |
| (B) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
| 0.3-1.34                                                | 614                           | 1.63                          | *100                                | 30                       |
| 1.34-30                                                 | 824/f                         | 2.19/f                        | *180/f <sup>2</sup>                 | 30                       |
| 30-300                                                  | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1,500                                               |                               |                               | f/1500                              | 30                       |
| 1,500-100,000                                           |                               |                               | 1.0                                 | 30                       |

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

Test Setup:



## Test Result:

### For base(110.5kHz-205kHz)

Table: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

| EUT Test Mode                       | Measured H-Field Strength Values (A/m) |                 |                 |                 |                 | 50% Limit (A/m) | Limit (A/m) | Result |
|-------------------------------------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|--------|
|                                     | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E |                 |             |        |
| Device working at the maximum power | 0.1672                                 | 0.1731          | 0.1528          | 0.1650          | 0.1485          | 0.815           | 1.63        | Pass   |

### For apple iphone charger(360kHz)

Table: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

| EUT Test Mode                       | Measured H-Field Strength Values (A/m) |                 |                 |                 |                 | 50% Limit (A/m) | Limit (A/m) | Result |
|-------------------------------------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|--------|
|                                     | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E |                 |             |        |
| Device working at the maximum power | 0.2896                                 | 0.2696          | 0.2488          | 0.2632          | 0.2608          | 0.815           | 1.63        | Pass   |

For an exposure waveform consisting of multiple frequencies, a test for compliance of exposure waveform shall satisfy the following criterion

EX:

base + apple iphone charger Max H-field  
(base Max H-field (A/m) + apple watch charger Max H-field (A/m)) / Limit (A/m) = Max H-field  
->  $(0.1731 + 0.2896) / 1.63 = 0.2839 \leq 1$

| RF Exposure                 |              |           |               |            |
|-----------------------------|--------------|-----------|---------------|------------|
| Description                 | Manufacturer | Model     | Serial No.    | Cal. Until |
| "Van der Hoofden" test head | Schwarzbeck  | VDHH 9502 | 159           | 2022-08-16 |
| EMF Tester                  | NARDA        | ELT-400   | D-0009/D-0010 | 2022-01-15 |