

RF exposure evaluation

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

According to KDB 680106 D01 RF Exposure Wireless Charging Apps, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm for devices designed for typical desktop applications. E and H field strength measurements or numerical modelling 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

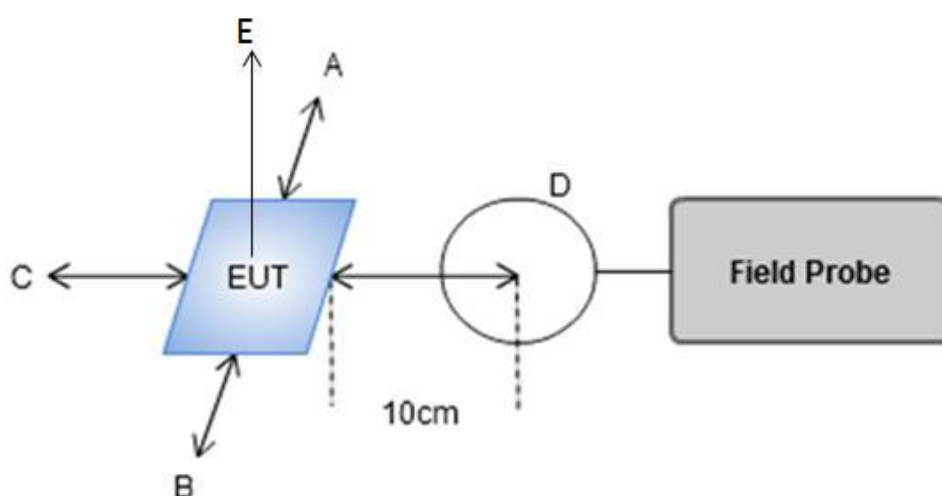
1. Limits For General Population/Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW /cm ²) | Averaging Time (minutes) |
|-----------------------|-------------------------------|-------------------------------|--------------------------------------|--------------------------|
| 0.3 ~ 3.0 | 614 | 1.63 | (100)* | 30 |
| 3.0 ~ 30 | 824/f | 2.19/f | (180/f ₂)* | 30 |
| 30 ~ 300 | 27.5 | 0.073 | 0.2 | 30 |
| 300~1500 | - | - | f/1500 | 30 |
| 1500~100000 | - | - | 1.0 | 30 |

2. The Equipment List

| Instrument | Manufacturer | Model No. | Serial No. | Calibration Until |
|-----------------------|--------------|-----------------------------------|------------|-------------------|
| B-Field Probe | Narda | B-Field Probe 100 cm ² | B-0137 | Jun. 19, 2017 |
| Magnetic field meter | Narda | ELT-400 | B-0137 | Jun. 19, 2017 |
| Broadband field meter | Narda | NBM-550 | B-0959 | Nov. 18, 2017 |
| B-Field Probe | Narda | EF0391 | A-1034 | Nov. 18, 2017 |

3. Test Setup Block



4. MPE EVALUATION RESULTS

a) 50% charging load mode

Electric Field Strength Measurement

| Measured Side | Distance (cm) | Measured Value (V/m) | 50 % of Limit (V/m) | Limit (V/m) |
|---------------|---------------|----------------------|---------------------|-------------|
| A | 15 | 1.85 | 307.00 | 614 |
| B | 15 | 1.84 | 307.00 | 614 |
| C | 15 | 1.85 | 307.00 | 614 |
| D | 15 | 1.74 | 307.00 | 614 |
| E | 15 | 1.69 | 307.00 | 614 |

Magnetic Field Strength Measurement

| Measured Side | Distance (cm) | Measured Value (A/m) | 50 % of Limit (A/m) | Limit (A/m) |
|---------------|---------------|----------------------|---------------------|-------------|
| A | 15 | 0.284 | 0.815 | 1.63 |
| B | 15 | 0.287 | 0.815 | 1.63 |
| C | 15 | 0.274 | 0.815 | 1.63 |
| D | 15 | 0.268 | 0.815 | 1.63 |
| E | 15 | 0.287 | 0.815 | 1.63 |

b) 100% charging load mode

Electric Field Strength Measurement

| Measured Side | Distance (cm) | Measured Value (V/m) | 50 % of Limit (V/m) | Limit (V/m) |
|---------------|---------------|----------------------|---------------------|-------------|
| A | 15 | 2.54 | 307.00 | 614 |
| B | 15 | 2.36 | 307.00 | 614 |
| C | 15 | 2.41 | 307.00 | 614 |
| D | 15 | 2.12 | 307.00 | 614 |
| E | 15 | 2.48 | 307.00 | 614 |

Magnetic Field Strength Measurement

| Measured Side | Distance (cm) | Measured Value (A/m) | 50 % of Limit (A/m) | Limit (A/m) |
|---------------|---------------|----------------------|---------------------|-------------|
| A | 15 | 0.546 | 0.815 | 1.63 |
| B | 15 | 0.531 | 0.815 | 1.63 |
| C | 15 | 0.542 | 0.815 | 1.63 |
| D | 15 | 0.498 | 0.815 | 1.63 |
| E | 15 | 0.526 | 0.815 | 1.63 |

5. Test Setup Photo



-----End of report-----