

RF Exposure Evaluation

FCC ID: 2AXTH-C2

1 Measuring Standard

KDB 680106 Wireless Power Transfer D01 V04

2 Requirements

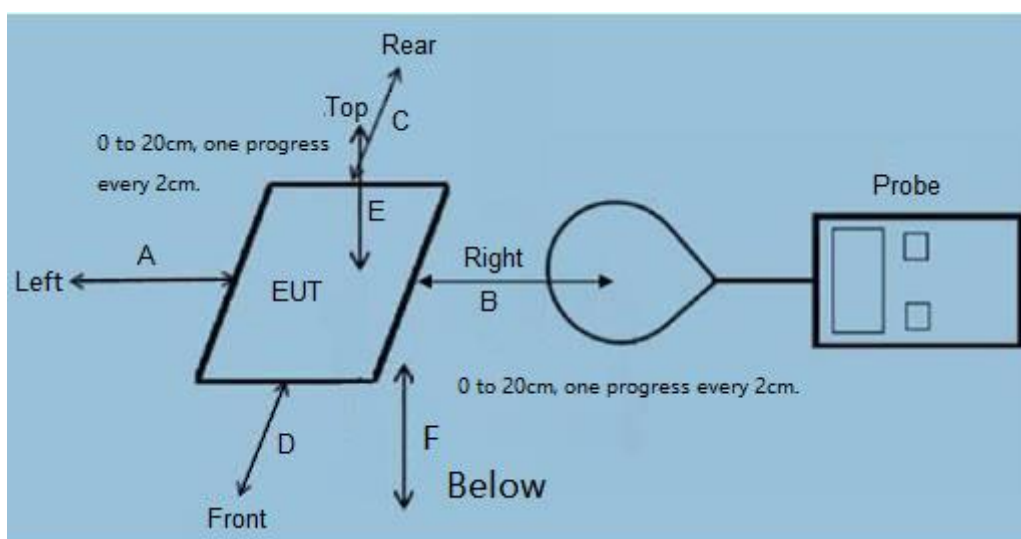
All requirements refer to Section 3 of KDB 680106 D01V04:

- 1.The devices may be considered to meet the § 2.1091-Mobile conditions (“generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source’s radiating structure(s) and [the nearest person]”)
- 2.Devices Operating at Frequencies Below 4 MHz.
- 3.For § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively.

3 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) Limits for Maximum Permissible Exposure (MPE)

4 Test Setup



5 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed
- 4) The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

6. Measurement Uncertainty

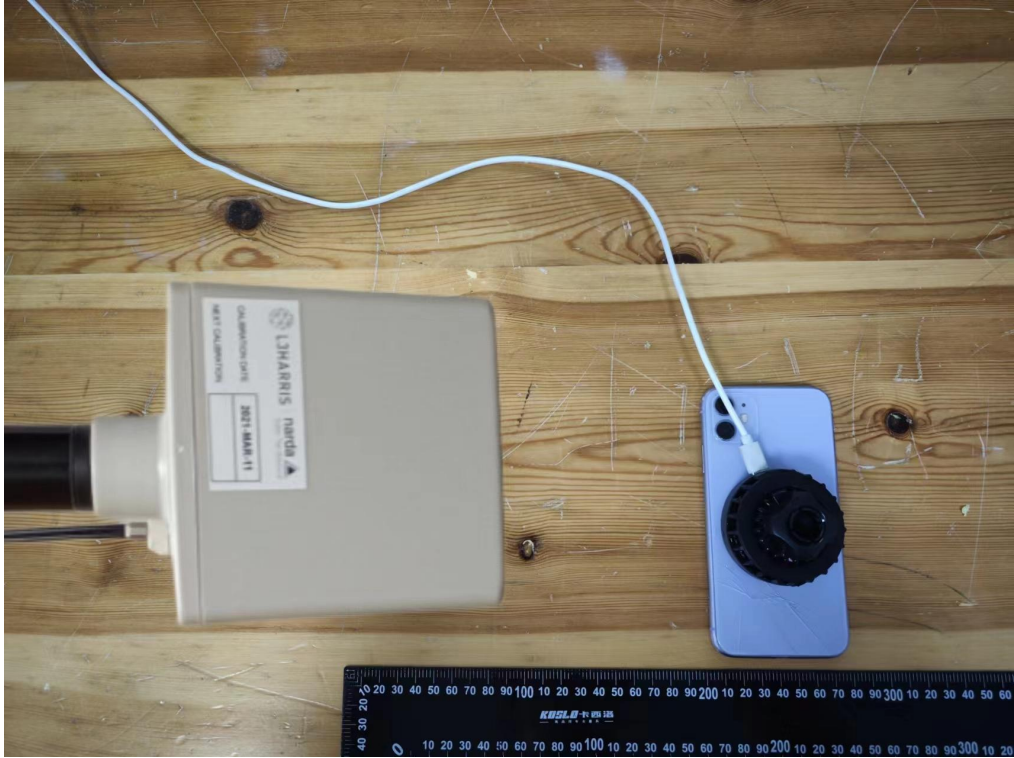
(95% confidence levels, k=2)

| Item | Uncertainty |
|---|-------------|
| Uncertainty for H-Field | 2.36dB |
| Uncertainty for E-Field | 2.42dB |
| Uncertainty for conducted RF Power | 0.62dB |
| Uncertainty for temperature | 0.2°C |
| Uncertainty for humidity | 1.1% |
| Uncertainty for DC and low frequency voltages | 0.06% |

7. Equipment list

| Test Equipment | Manufacturer | Model No. | SN. | Last calibration | Calibrated until |
|--|--------------|-----------|--------|------------------|------------------|
| Electric and Magnetic field probe-Analyzer | Narda | EHP-200A | N03565 | Aug 29,2023 | Aug 28,2024 |

7 Placement Mode 1 Photo



8 Test mode

- Mode 1 Mobile phone wireless charging (5W) 5V/3A
- Mode 2 Mobile phone wireless charging (7.5W) 5V/3A
- Mode 3 Mobile phone wireless charging (10W) 5V/3A
- Mode 4 Mobile phone wireless charging (5W) 9V/3A
- Mode 5 Mobile phone wireless charging (7.5W) 9V/3A
- Mode 6 Mobile phone wireless charging (10W) 9V/3A
- Mode 7 Mobile phone wireless charging (15W) 9V/3A
- Mode 8 Mobile phone wireless charging (5W) 12V/2.5A

- Mode 9 Mobile phone wireless charging (7.5W) 12V/2.5A
- Mode 10 Mobile phone wireless charging (10W) 12V/2.5A
- Mode 11 Mobile phone wireless charging (15W) 12V/2.5A

9 Necessary accessories

| | Equipment | Mfr/Brand | Model/Type No. | Serial No. | Note |
|---|-----------|-----------|----------------|------------|-------------------------------------|
| 1 | Adapter | XIAOMI | MDY-11-EB | N/A | This is for testing only in report. |
| 2 | Phone | Apple | iPone 13 | N/A | This is for testing only in report. |

10 Test Result

Placement Mode 11(Worst)

E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

| Battery power | Frequency Range(MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Limits (V/m) | 50%M PE limit (V/m) | Result |
|---------------|----------------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------------|--------|
| 1% | 0.115-0.205 | 1.39 | 1.46 | 0.59 | 0.43 | 614 | 307 | PASS |
| 50% | 0.115-0.205 | 1.50 | 1.37 | 0.46 | 0.60 | 614 | 307 | PASS |
| 95% | 0.115-0.205 | 1.27 | 1.54 | 0.40 | 0.59 | 614 | 307 | PASS |
| Stand-by | 0.115-0.205 | 1.40 | 1.33 | 0.58 | 0.61 | 614 | 307 | PASS |

E-Filed Strength at 20 cm from the top of the EUT (V/m)

| Battery power | Frequency Range(MHz) | Test Position E | Limits (V/m) | 50%MPE limit(V/m) | Result |
|---------------|----------------------|-----------------|--------------|-------------------|--------|
| 1% | 0.115-0.205 | 1.20 | 614 | 307 | PASS |
| 50% | 0.115-0.205 | 1.28 | 614 | 307 | PASS |
| 95% | 0.115-0.205 | 1.30 | 614 | 307 | PASS |
| Stand-by | 0.115-0.205 | 1.45 | 614 | 307 | PASS |

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

| Battery power | Frequency Range(MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Limits (A/m) | 50%MP E limit (A/m) | Result |
|---------------|----------------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------------|--------|
| 1% | 0.115-0.205 | 0.61 | 0.60 | 0.64 | 0.61 | 1.63 | 0.815 | PASS |
| 50% | 0.115-0.205 | 0.60 | 0.58 | 0.59 | 0.62 | 1.63 | 0.815 | PASS |
| 95% | 0.115-0.205 | 0.63 | 0.59 | 0.58 | 0.59 | 1.63 | 0.815 | PASS |
| Stand-by | 0.115-0.205 | 0.62 | 0.57 | 0.60 | 0.64 | 1.63 | 0.815 | PASS |

H-Filed Strength at 20 cm from the top of the EUT (A/m)

| Battery power | Frequency Range(MHz) | Test Position E | Limits (A/m) | 50%MPE limit (A/m) | Result |
|---------------|----------------------|-----------------|--------------|--------------------|--------|
| 1% | 0.115-0.205 | 0.50 | 1.63 | 0.815 | PASS |
| 50% | 0.115-0.205 | 0.44 | 1.63 | 0.815 | PASS |
| 95% | 0.115-0.205 | 0.48 | 1.63 | 0.815 | PASS |
| Stand-by | 0.115-0.205 | 0.62 | 1.63 | 0.815 | PASS |

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*****END OF THE REPORT*****