# RF EXPOSURE EVALUATION

# FCC ID:2BPN9-ISM6

| | |
|---|---|
| Product Name: | Milianet power bank |
| Model No.: | IS-M6 |
| Serial No.: | N/A |
| Model Difference: | N/A |
| Operation Frequency: | 115kHz-205kHz |
| Modulation Type: | ASK |
| Antenna Type: | Loop Coil Antenna |
| Antenna Gain: | 0dBi |
| Power Supply: | Type-C Input: 5V⎓3A, 9V⎓2A, 12V⎓1.5A (18W)<br>Type-C Output: 5V⎓3A, 9V⎓2.22A, 10V⎓2.25A (SCP), 12V⎓1.67A (MAX 22.5W)<br>USB-A Output: 5V⎓3A, 9V⎓2A, 10V⎓2.25A, 12V⎓1.5A (MAX 22.5W)<br>Wireless Output: 15W |
| Battery Capacity: | 10000mAh/3.85V/38.5Wh |
| Transmitting Mode: | Keep the EUT in continuously wireless charging mode |
| Date of Test: | May. 08, 2025 to May. 16, 2025 |
| Date of issue: | May. 16, 2025 |

a. EUT mode for mobile exposure:

| Test Modes: | Test Coil: | Description: |
|---|---|---|
| Mode 1 | ANT 1 | AC/DC Adapter (12V/1.5A) + EUT + Phone 15W (Battery Status: <1%) |
| Mode 2 | | AC/DC Adapter (12V/1.5A) + EUT + Phone 15W (Battery Status: 50%) |
| Mode 3 | | AC/DC Adapter (12V/1.5A) + EUT + Phone 15W (Battery Status: >98%) |
| Mode 4 | | AC/DC Adapter (9V/2A) + EUT + Phone 15W (Battery Status: <1%) |
| Mode 5 | | AC/DC Adapter (9V/2A) + EUT + Phone 15W (Battery Status: 50%) |
| Mode 6 | | AC/DC Adapter (9V/2A) + EUT + Phone 15W (Battery Status: >98%) |
| Mode 7 | | AC/DC Adapter (5V/3A) + EUT + Phone 15W (Battery Status: <1%) |
| Mode 8 | | AC/DC Adapter (5V/3A) + EUT + Phone 15W (Battery Status: 50%) |
| Mode 9 | | AC/DC Adapter (5V/3A) + EUT + Phone 15W (Battery Status: >98%) |

b. EUT mode for portable exposure:

| Test Modes: | Test Coil: | Description: |
|---|---|---|
| Mode 1a | ANT 1 | EUT + Phone 15W (Battery Status: <1%) |
| Mode 2a | | EUT + Phone 15W (Battery Status: 50%) |
| Mode 3a | | EUT + Phone 15W (Battery Status: >98%) |

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## 1. Measuring Standard

1.1 KDB 680106 D01 Wireless Power Transfer v04

1.2 Measurement Uncertainty

The reported uncertainty of measurement y ±U, where expended 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 | Uncertainly |
|---|---|---|
| 1 | H-filed | ±0.93dB |
| 2 | E-filed | ±0.51dB |

## 2. Requirements

2.1 According to the item 5.2 of KDB 680106 D01v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

a) The power transfer frequency is below 1 MHz.

Yes.The device operates in the frequency from 115kHz to 205kHz.

b) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

Yes,The maximum output power of the primary coil is 15 watts.

c) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact).

Yes. Client device is placed directly in contact with the transmitter.

d) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

NO. The EUT is a portable wireless charger.

e) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes.

The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures

Yes. The EUT coil is evaluated at maximum output power and the test results are less than 50% of the limit.

f) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well.

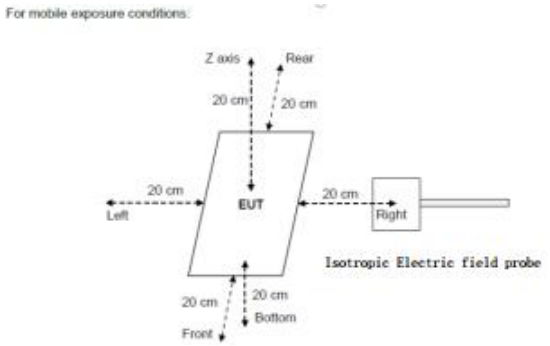
NO, The EUT has one coil.

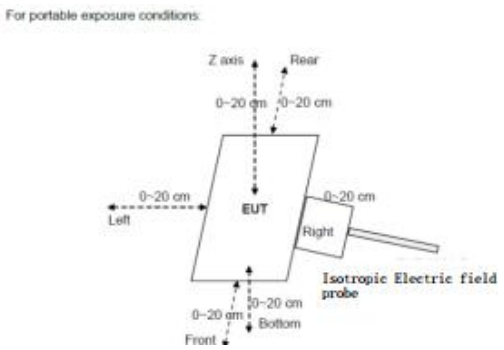
## 3. Method Of Measurement

### 3.1 Applicable Standard

According to S1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB 680106 D01 Wireless Power Transfer v04.

### 3.2 Block diagram of Test Setup




Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm - 0cm measured from the center of the top, and 20cm - 0cm measured from the center of the rest.

### 3.3 For mobile exposure conditions:

a. The RF exposure test was performed in an echoic chamber;
b. E and H-field measurements should be made with the center of the probe at a distance of 20 cm surrounding the EUT and 20 cm above the top surface of the primarv/client pair;
c. The highest emission level was recorded and compared with limit;
d. The EUT was measured according to the dictates of KDB 680106 D01v04.

### 3.4 For portable exposure conditions:

a. The RF exposure test was performed in an echoic chamber;
b. E and H-field measurements should be made with the probe at 0 - 20 cm for all side of the EUT;
c. The highest emission level was recorded and compared with limit;
d. Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm startino from as close as possible out to 20cm.

3.5 Limits for Maximum Permissible Exposure (MPE):

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm$^2$) | Averaging time (minutes) |
|---|---|---|---|---|
| **(A) Limits for Occupational/Controlled Exposures** | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0-30 | 1842/f | 4.89/f | *(900/f$^2$) | 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** | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f$^2$) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

3.6 Test Procedure:

1) The RF exposure test was performed on 360 degree turn table in an echoic chamber.
2) 20 cm-0cm measured from the center of the top, and 20cm-0cm measured from the center of the rest sides.
3) The turn table was rotated 360 degree to search of highest strength.
4) The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
5) The EUT were measured according to the dictates of KDB 680106 D01v04.

## 4. Test instrument and equipment list

### 4.1 Test Instruments list

| Test Equipment | Manufacturer | Model No. | SN. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
|---|---|---|---|---|---|
| Exposure Level Tester | Narda | ELT-400 | 180ZX10220 | Sep. 29, 2024 | Sep. 28, 2025 |
| Magnetic field probe 100cm$^2$ | Narda | ELT probe 100cm$^2$ | M0675 | Sep. 29, 2024 | Sep. 28, 2025 |

### 4.2 Test auxiliary equipment list

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|---|---|---|---|---|---|
| E-1 | Milianet power bank | Milianet | IS-M6 | N/A | EUT |
| E-2 | AC/DC Adapter | HUAWEI | HW-200200CP1 | N/A | Auxiliary |
| E-3 | Phone | APPLE | iPhone 13 Pro | N/A | Auxiliary |

## 5. Test Result

### 5.1 For portable exposure result (Test mode 1a to 3a recorded)

**H-Filed Strength at (distance from 6cm to 20cm at 2cm iteration) surrounding the EUT (A/m):**

| distance (cm) | Battery Level: | Position Left (uT) | Position Right (uT) | Position Rear (uT) | Position Front (uT) | Position Top (uT) | Position Bottom (uT) |
|---|---|---|---|---|---|---|---|
| 20 | <1% | 0.0175 | 0.0176 | 0.0178 | 0.0174 | 0.0169 | 0.0166 |
| 18 | <1% | 0.0234 | 0.0236 | 0.0238 | 0.0233 | 0.0226 | 0.0223 |
| 16 | <1% | 0.0322 | 0.0325 | 0.0327 | 0.0320 | 0.0311 | 0.0306 |
| 14 | <1% | 0.0459 | 0.0462 | 0.0465 | 0.0456 | 0.0443 | 0.0436 |
| 12 | <1% | 0.0679 | 0.0684 | 0.0689 | 0.0674 | 0.0655 | 0.0645 |
| 10 | <1% | 0.1051 | 0.1058 | 0.1066 | 0.1043 | 0.1013 | 0.0998 |
| 8 | <1% | 0.1707 | 0.1719 | 0.1731 | 0.1695 | 0.1646 | 0.1622 |
| 6 | <1% | 0.2896 | 0.2917 | 0.2938 | 0.2876 | 0.2793 | 0.2751 |

| distance (cm) | Battery Level: | Position Left (A/m) | Position Right (A/m) | Position Rear (A/m) | Position Front (A/m) | Position Top (A/m) | Position Bottom (A/m) | 50% Limits (A/m) | Limits (A/m) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | <1% | 0.0140 | 0.0141 | 0.0142 | 0.0139 | 0.0135 | 0.0133 | 0.815 | 1.63 |
| 18 | <1% | 0.0187 | 0.0189 | 0.0190 | 0.0186 | 0.0181 | 0.0178 | 0.815 | 1.63 |
| 16 | <1% | 0.0258 | 0.0260 | 0.0262 | 0.0256 | 0.0249 | 0.0245 | 0.815 | 1.63 |
| 14 | <1% | 0.0367 | 0.0370 | 0.0372 | 0.0365 | 0.0354 | 0.0349 | 0.815 | 1.63 |
| 12 | <1% | 0.0543 | 0.0547 | 0.0551 | 0.0539 | 0.0524 | 0.0516 | 0.815 | 1.63 |
| 10 | <1% | 0.0841 | 0.0847 | 0.0853 | 0.0835 | 0.0810 | 0.0798 | 0.815 | 1.63 |
| 8 | <1% | 0.1365 | 0.1375 | 0.1385 | 0.1356 | 0.1317 | 0.1297 | 0.815 | 1.63 |
| 6 | <1% | 0.2317 | 0.2334 | 0.2350 | 0.2300 | 0.2234 | 0.2201 | 0.815 | 1.63 |

**H-Filed Strength at (distance from 6cm to 20cm at 2cm iteration) surrounding the EUT (A/m):**

| distance (cm) | Battery Level: | Position Left (uT) | Position Right (uT) | Position Rear (uT) | Position Front (uT) | Position Top (uT) | Position Bottom (uT) |
|---|---|---|---|---|---|---|---|
| 20 | 50% | 0.0169 | 0.0173 | 0.0171 | 0.0170 | 0.0163 | 0.0159 |
| 18 | 50% | 0.0226 | 0.0231 | 0.0229 | 0.0228 | 0.0218 | 0.0212 |
| 16 | 50% | 0.0311 | 0.0318 | 0.0316 | 0.0313 | 0.0299 | 0.0293 |
| 14 | 50% | 0.0443 | 0.0452 | 0.0449 | 0.0446 | 0.0426 | 0.0416 |
| 12 | 50% | 0.0655 | 0.0669 | 0.0664 | 0.0660 | 0.0630 | 0.0616 |
| 10 | 50% | 0.1013 | 0.1036 | 0.1028 | 0.1021 | 0.0976 | 0.0953 |
| 8 | 50% | 0.1646 | 0.1682 | 0.1670 | 0.1658 | 0.1585 | 0.1548 |
| 6 | 50% | 0.2793 | 0.2855 | 0.2834 | 0.2814 | 0.2689 | 0.2627 |

| distance (cm) | Battery Level: | Position Left (A/m) | Position Right (A/m) | Position Rear (A/m) | Position Front (A/m) | Position Top (A/m) | Position Bottom (A/m) | 50% Limits (A/m) | Limits (A/m) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 50% | 0.0135 | 0.0138 | 0.0137 | 0.0136 | 0.0130 | 0.0127 | 0.815 | 1.63 |
| 18 | 50% | 0.0181 | 0.0185 | 0.0183 | 0.0182 | 0.0174 | 0.0170 | 0.815 | 1.63 |
| 16 | 50% | 0.0249 | 0.0254 | 0.0252 | 0.0251 | 0.0240 | 0.0234 | 0.815 | 1.63 |
| 14 | 50% | 0.0354 | 0.0362 | 0.0359 | 0.0357 | 0.0341 | 0.0333 | 0.815 | 1.63 |
| 12 | 50% | 0.0524 | 0.0535 | 0.0532 | 0.0528 | 0.0504 | 0.0493 | 0.815 | 1.63 |
| 10 | 50% | 0.0810 | 0.0829 | 0.0822 | 0.0816 | 0.0780 | 0.0762 | 0.815 | 1.63 |
| 8 | 50% | 0.1317 | 0.1346 | 0.1336 | 0.1326 | 0.1268 | 0.1239 | 0.815 | 1.63 |
| 6 | 50% | 0.2234 | 0.2284 | 0.2267 | 0.2251 | 0.2152 | 0.2102 | 0.815 | 1.63 |

**H-Filed Strength at (distance from 6cm to 20cm at 2cm iteration) surrounding the EUT (A/m):**

| distance (cm) | Battery Level: | Position Left (uT) | Position Right (uT) | Position Rear (uT) | Position Front (uT) | Position Top (uT) | Position Bottom (uT) |
|---|---|---|---|---|---|---|---|
| 20 | >98% | 0.0155 | 0.0154 | 0.0153 | 0.0151 | 0.0148 | 0.0146 |
| 18 | >98% | 0.0207 | 0.0206 | 0.0204 | 0.0202 | 0.0197 | 0.0196 |
| 16 | >98% | 0.0286 | 0.0283 | 0.0281 | 0.0279 | 0.0272 | 0.0270 |
| 14 | >98% | 0.0406 | 0.0403 | 0.0400 | 0.0397 | 0.0387 | 0.0384 |
| 12 | >98% | 0.0601 | 0.0597 | 0.0592 | 0.0587 | 0.0572 | 0.0567 |
| 10 | >98% | 0.0931 | 0.0923 | 0.0916 | 0.0908 | 0.0886 | 0.0878 |
| 8 | >98% | 0.1512 | 0.1500 | 0.1487 | 0.1475 | 0.1439 | 0.1426 |
| 6 | >98% | 0.2565 | 0.2545 | 0.2524 | 0.2503 | 0.2441 | 0.2420 |

| distance (cm) | Battery Level: | Position Left (A/m) | Position Right (A/m) | Position Rear (A/m) | Position Front (A/m) | Position Top (A/m) | Position Bottom (A/m) | 50% Limits (A/m) | Limits (A/m) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | >98% | 0.0124 | 0.0123 | 0.0122 | 0.0121 | 0.0118 | 0.0117 | 0.815 | 1.63 |
| 18 | >98% | 0.0166 | 0.0165 | 0.0163 | 0.0162 | 0.0158 | 0.0157 | 0.815 | 1.63 |
| 16 | >98% | 0.0228 | 0.0227 | 0.0225 | 0.0223 | 0.0217 | 0.0216 | 0.815 | 1.63 |
| 14 | >98% | 0.0325 | 0.0323 | 0.0320 | 0.0317 | 0.0309 | 0.0307 | 0.815 | 1.63 |
| 12 | >98% | 0.0481 | 0.0477 | 0.0473 | 0.0469 | 0.0458 | 0.0454 | 0.815 | 1.63 |
| 10 | >98% | 0.0744 | 0.0738 | 0.0732 | 0.0726 | 0.0708 | 0.0702 | 0.815 | 1.63 |
| 8 | >98% | 0.1209 | 0.1200 | 0.1190 | 0.1180 | 0.1151 | 0.1141 | 0.815 | 1.63 |
| 6 | >98% | 0.2052 | 0.2036 | 0.2019 | 0.2003 | 0.1953 | 0.1936 | 0.815 | 1.63 |

Note: A/m = uT/1.25

**H-Filed Strength at (distance from 4cm to 0cm) surrounding the EUT (A/m):**

| distance (cm) | Battery Level: | Position Left (A/m) | Position Right (A/m) | Position Rear (A/m) | Position Front (A/m) | Position Top (A/m) | Position Bottom (A/m) | 50% Limits (A/m) | Limits (A/m) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | <1% | 0.3972 | 0.4001 | 0.4029 | 0.3944 | 0.3830 | 0.3774 | 0.815 | 1.63 |
| 2 | <1% | 0.6233 | 0.6278 | 0.6322 | 0.6189 | 0.6011 | 0.5922 | 0.815 | 1.63 |
| 0 | <1% | 0.7510 | 0.7563 | 0.7617 | 0.7456 | 0.7241 | 0.7134 | 0.815 | 1.63 |
| 4 | 50% | 0.3830 | 0.3916 | 0.3887 | 0.3859 | 0.3689 | 0.3603 | 0.815 | 1.63 |
| 2 | 50% | 0.6011 | 0.6144 | 0.6100 | 0.6055 | 0.5788 | 0.5654 | 0.815 | 1.63 |
| 0 | 50% | 0.7241 | 0.7402 | 0.7349 | 0.7295 | 0.6973 | 0.6812 | 0.815 | 1.63 |
| 4 | >98% | 0.3518 | 0.3490 | 0.3462 | 0.3433 | 0.3348 | 0.3320 | 0.815 | 1.63 |
| 2 | >98% | 0.5521 | 0.5476 | 0.5432 | 0.5387 | 0.5254 | 0.5209 | 0.815 | 1.63 |
| 0 | >98% | 0.6651 | 0.6598 | 0.6544 | 0.6491 | 0.6330 | 0.6276 | 0.815 | 1.63 |

Note: Biot-Savar law:

(1) Magnetic field on the axis of a current-carrying circle coil:

$$B = \frac{u_0 I R^2}{2(R^2+X^2)^{\frac{3}{2}}}$$

R is the coil outside diameter radius.

X is the distance from the test point to the center of the coil circle.

B is the magnetic magnetic field.

(2) According to the KDB 680106, the model needs to be validated by probe measurements at the two points closest to the surface of the device, in 2cm increments, and if there is a 30% agreement between the model and the (E-field and/or h-field) probe measurements, the validation is considered sufficient.

(3) We derived the field strengths at 10cm to 8cm and 8cm to 6cm, respectively, which are close to the actual test values, based on the field strength at 6 cm, the field strength at 4cm and 2cm and 0 cm can be deduced.

(4) A table of error data between the assessed and measured values:

| distance (cm) | Measurements (A/m) | distance (cm) | Assessed (A/m) | Error (%) | Limit (%) |
|---|---|---|---|---|---|
| 10 | 0.0829 | \ | \ | \ | \ |
| 8 | 0.1342 | 10 to 8 | 0.1307 | 2.61 | <30 |
| 6 | 0.2289 | 8 to 6 | 0.2218 | 3.10 | <30 |

(5) Calculation process:

| distance (cm) | Battery Level: | Position Left (A/m) |
|---|---|---|
| 8 | <1% | 0.1365 |
| 6 | <1% | 0.2317 |
| 4 | <1% | 0.3972 |
| 2 | <1% | 0.6233 |
| 0 | <1% | 0.7510 |

8cm: $u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.1365 * 2(0.055^2 + 0.08^2)^{\frac{3}{2}} = 0.000249885$

To 6cm: $B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.000249885}{2(0.055^2+0.06^2)^{\frac{3}{2}}} = 0.2317$

6cm: $u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.2317 * 2(0.055^2 + 0.06^2)^{\frac{3}{2}} = 0.000249885$

To 4cm: $B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.000249885}{2(0.055^2+0.04^2)^{\frac{3}{2}}} = 0.3972$

4cm: $u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.3972 * 2(0.055^2 + 0.04^2)^{\frac{3}{2}} = 0.000249885$

To 2cm: $B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.000249885}{2(0.055^2+0.02^2)^{\frac{3}{2}}} = 0.6233$

2cm: $u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.6233 * 2(0.055^2 + 0.02^2)^{\frac{3}{2}} = 0.000249885$

To 0cm: $B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.000249885}{2(0.055^2+0^2)^{\frac{3}{2}}} = 0.7510$

## 5.2 For mobile exposure result (Test mode 1 to 3 recorded)

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

| distance (cm) | Battery Level: | Position Left (uT) | Position Right (uT) | Position Rear (uT) | Position Front (uT) | Position Top (uT) | Position Bottom (uT) |
|---|---|---|---|---|---|---|---|
| 20 | <1% | 0.0175 | 0.0173 | 0.0174 | 0.0176 | 0.0169 | 0.0167 |
| 20 | 50% | 0.0166 | 0.0165 | 0.0164 | 0.0163 | 0.0160 | 0.0161 |
| 20 | >98% | 0.0155 | 0.0154 | 0.0153 | 0.0156 | 0.0152 | 0.0150 |

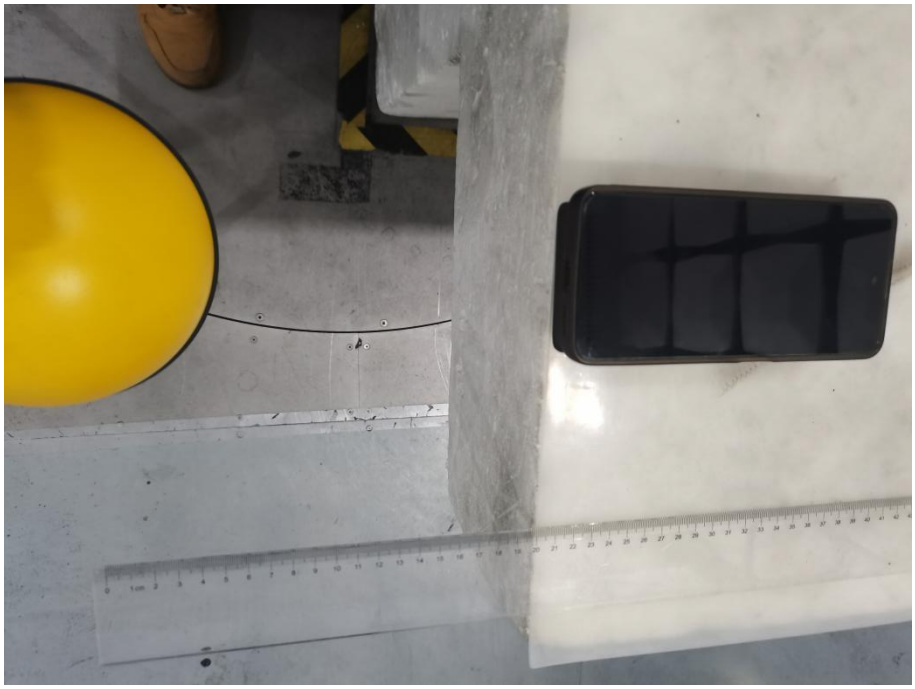
| distance (cm) | Battery Level: | Position Left (A/m) | Position Right (A/m) | Position Rear (A/m) | Position Front (A/m) | Position Top (A/m) | Position Bottom (A/m) | 50% Limits (A/m) | Limits (A/m) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | <1% | 0.0140 | 0.0138 | 0.0139 | 0.0141 | 0.0135 | 0.0134 | 0.815 | 1.63 |
| 20 | 50% | 0.0133 | 0.0132 | 0.0139 | 0.0130 | 0.0128 | 0.0129 | 0.815 | 1.63 |
| 20 | >98% | 0.0124 | 0.0123 | 0.0131 | 0.0125 | 0.0122 | 0.0120 | 0.815 | 1.63 |

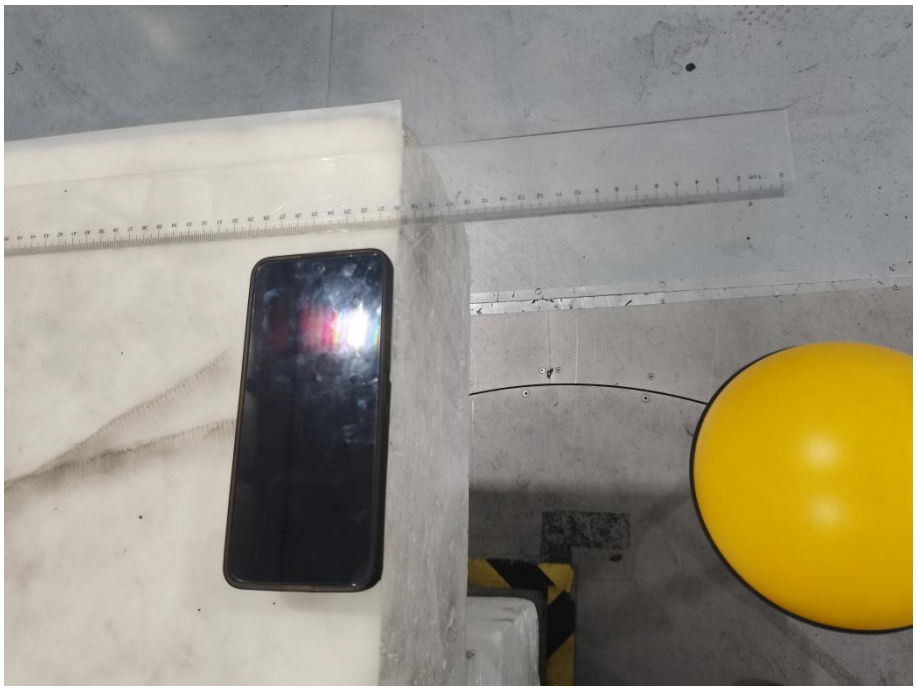
Note: A/m = uT/1.25

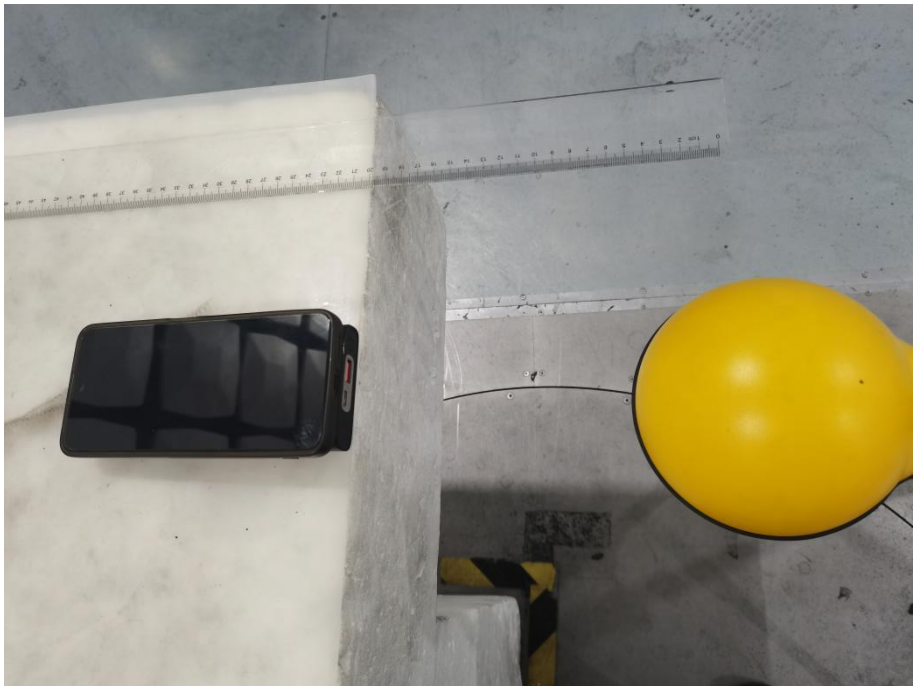
## 6. Test Set-up Photo

| Probe | Length | Width | Radius |
|---|---|---|---|
| | 11cm | 11cm | 5.5cm |

### 6.1 Test distance: 20cm







## 6.2 Test distance: 6cm

※※※※※ **END OF REPORT** ※※※※※