



FCC ID:2AJYR-NM014780858

Product Name:	Universal Cable for Apple Watch 1.5m
Product Model No.:	NM014780858
Test Auxiliary:	Watch
Transmitting mode	Keep the EUT in continuously wireless charging mode
Power supply:	Input: 5V---1A Wireless Output : 5W
Test description:	Battery>98%, =50%and <1% are tested, and the worst is <1%.

Test Auxiliary					
E1	Universal Cable for Apple Watch 1.5m	N/A	S9	N/A	EUT
A1	Adapter	HUAWEI	HW200450CP0	N/A	Auxiliary
A3	Watch	APPLE	S7	N/A	Auxiliary
Transmitting mode		Keep the EUT in continuously wireless charging mode			

Test Modes:		Description:	
Mode 1	AC/DC Adapter +EUT+ APPLE Watch	Battery $\geq 98\%$	
		Battery =50%	
		Battery $\leq 1\%$	Record

Note: All modes have been tested, and the report only reflects the worst case data.



RF Exposure Evaluation

1 Measuring Standard

1.1 According to §1.1307(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 §2.1091 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, 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	Uncertainty
1	H-filed	$\pm 0.93\text{dB}$
2	E-filed	$\pm 0.51\text{dB}$

2.1 Requirements

The EUT does comply with item 5 (b) of KDB 680106 D01 V04:

1) The power transfer frequency is below 1 MHz.

Yes, the device operate in the frequency range from Watch Coil: 300kHz to 350kHz.

2) 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 5W.

3) 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, the surfaces of the transmitter and client device enclosures are in physical contact.

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

Yes, the EUT is a Mobile Wireless Charger.

5) 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.

Yes, the EUT field strength levels are less $50\% * \text{MPE limit}$.

6) 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.

Yes, the EUT has only one coil, and all the test modes meet the conditions specified in (5).



2.2 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):

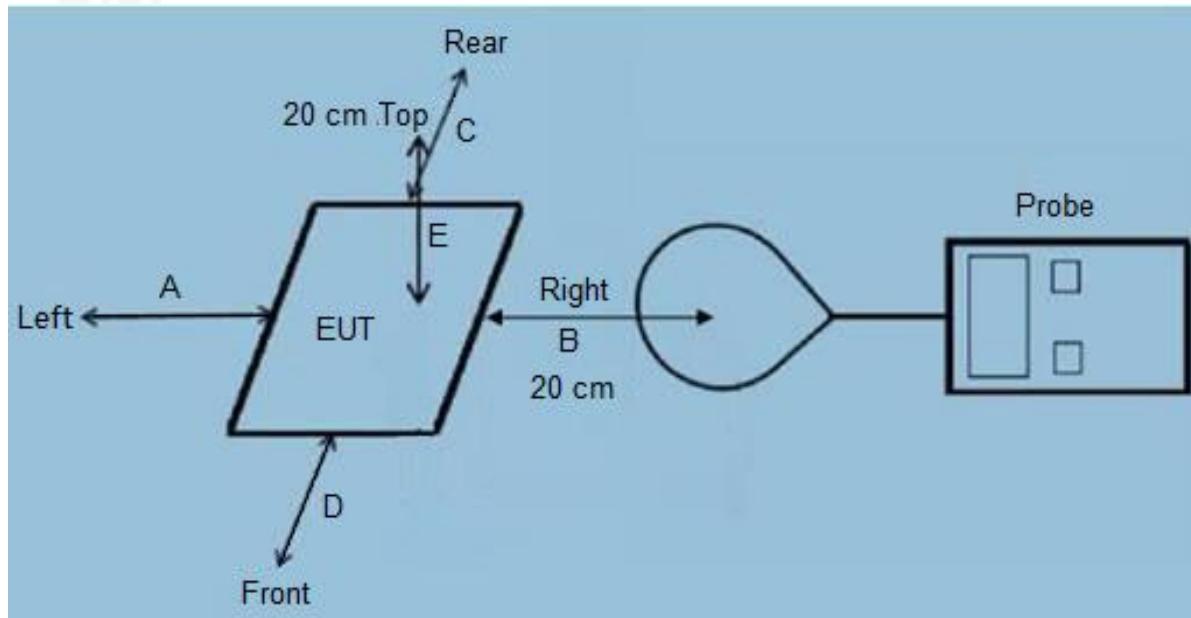
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	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).

2.3 Test Setup





3 Test Procedure

- 1) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm and above from all sides and Top) which is between the edge of the charger and the geometric centre of probe.
- 3) The turn table was rotated 360d 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 D01 V04.

4 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	Nov. 16, 2024	Nov. 15, 2025
Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	M0675	Nov. 16, 2024	Nov. 15, 2025



5 Test Result

Mode 1:

H-Field Strength at 20 cm from the edges surrounding the EUT (uT):

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top
<1% Battery	0.30-0.35	0.18	0.21	0.20	0.19	0.23
50% Battery	0.30-0.35	0.16	0.17	0.19	0.17	0.15
>98% Battery	0.30-0.35	0.14	0.15	0.18	0.12	0.13

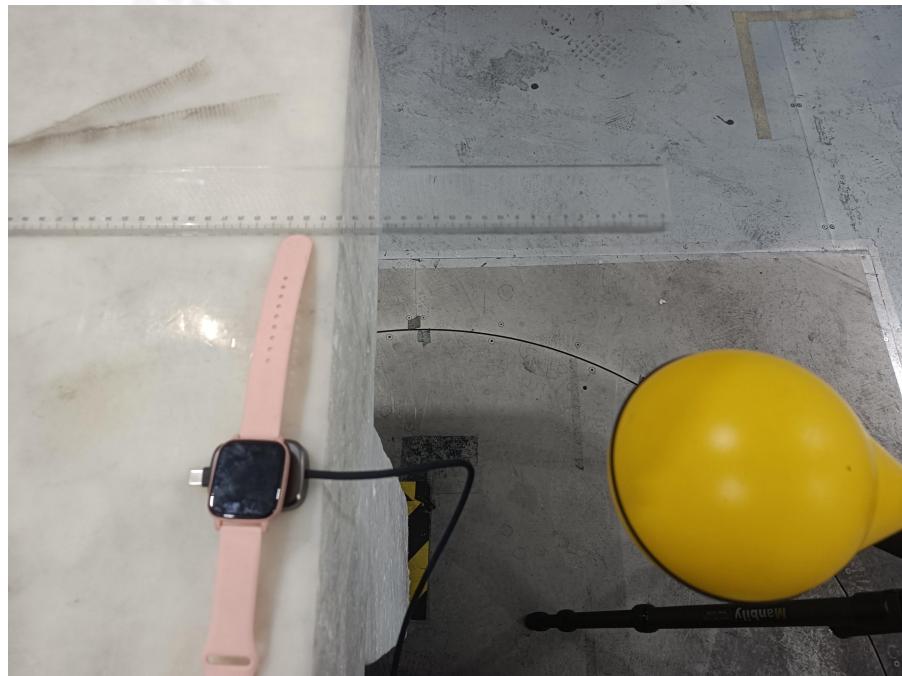
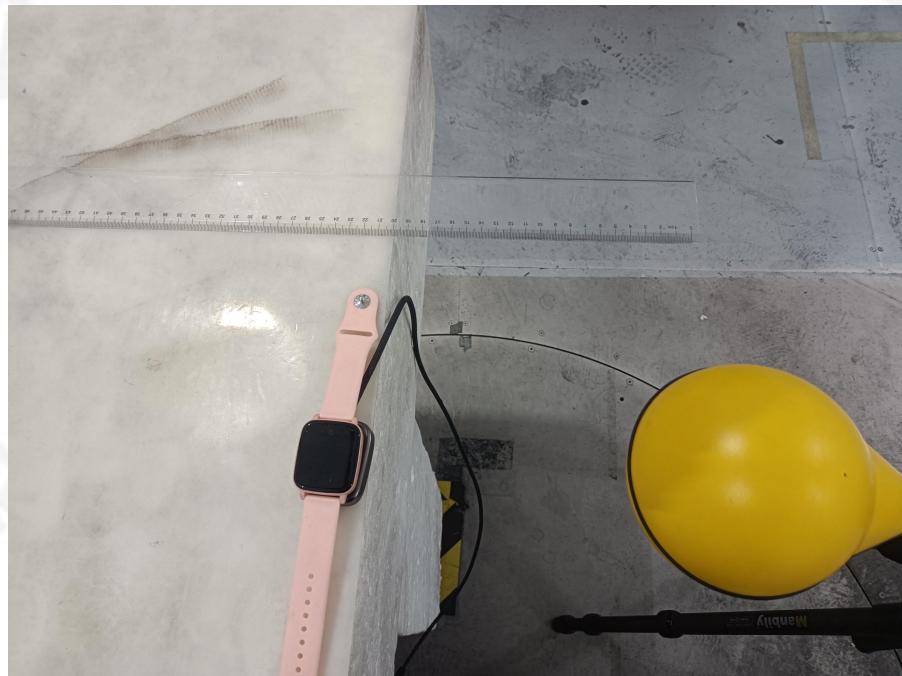
H-Field Strength at 20 cm from the edges surrounding the EUT (A/m)

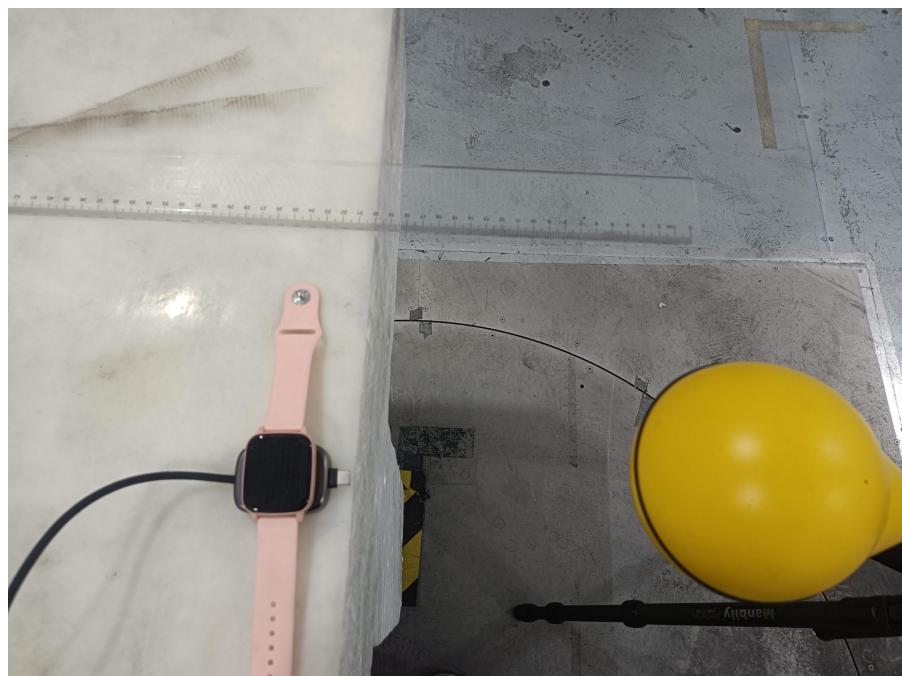
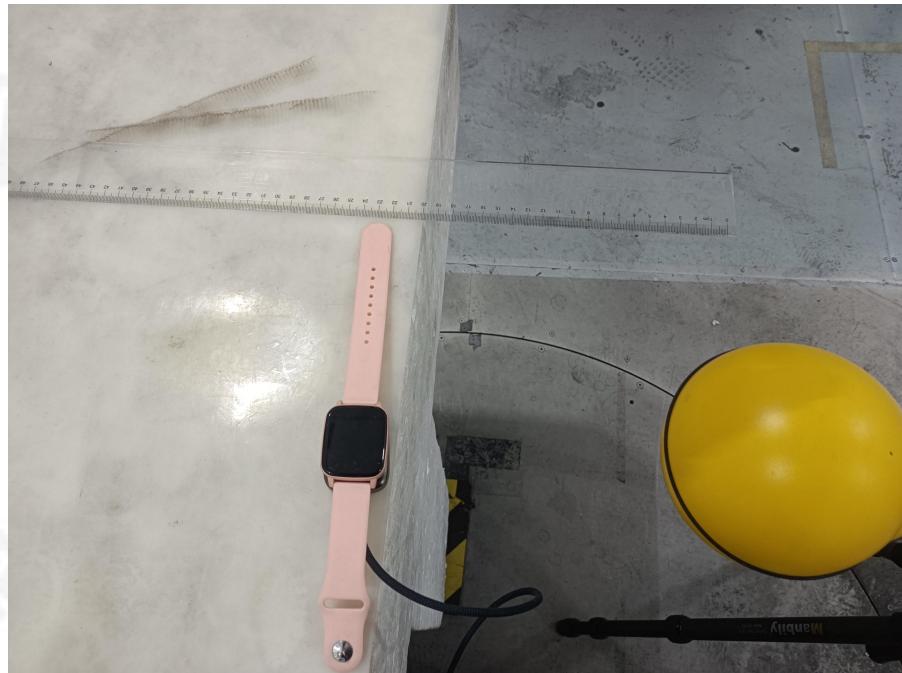
Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top	Limits 50% (A/m)	Limits (A/m)
<1% Battery	0.30-0.35	0.14	0.17	0.16	0.15	0.18	0.815	1.63
50% Battery	0.30-0.35	0.13	0.14	0.15	0.14	0.12	0.815	1.63
>98% Battery	0.30-0.35	0.11	0.12	0.14	0.10	0.10	0.815	1.63

Remark: A/m = uT/1.25



2 Test Set-up Photo





Shenzhen ZKT Technology Co., Ltd.

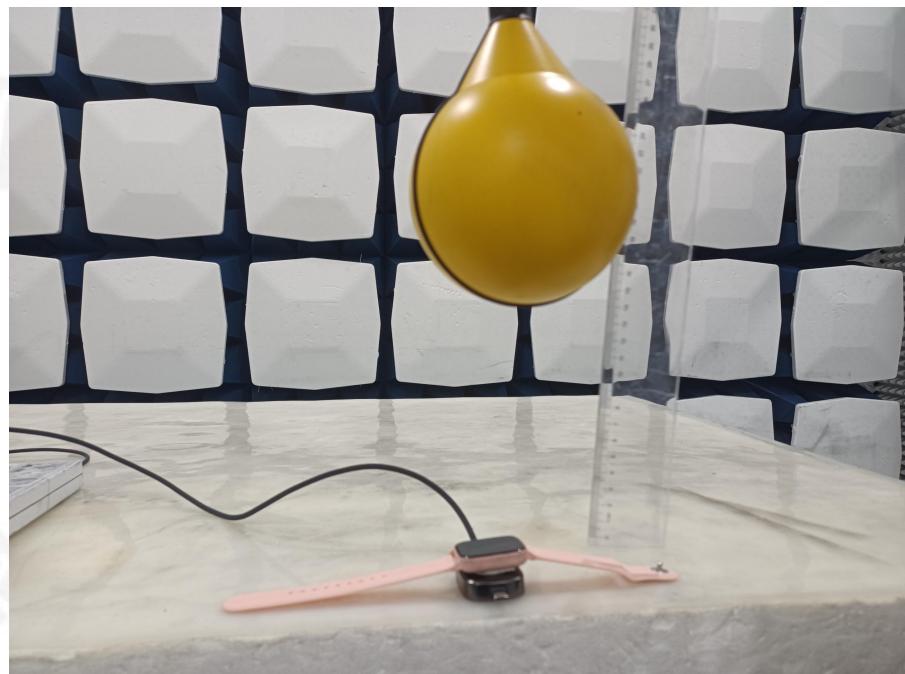
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