

Withings

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
WPA02

REPORT NUMBER:
2502B1019SHA-004

ISSUE DATE:
February 26, 2025

DOCUMENT CONTROL NUMBER:
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Applicant: Withings
2 Rue Maurice Hartmann Issy-les-Moulineaux 92130 France

Manufacturer: Withings
2 Rue Maurice Hartmann Issy-les-Moulineaux 92130 France

Manufacturer Site: YAHORNG (DONGGUAN) ELECTRONIC CO., LTD
Room 201, Building #9, No.84 Gaoyu South Road,Tangxia Town, Dong Guan,
Guangdong, China

Product Name: Withings U-Scan Reader

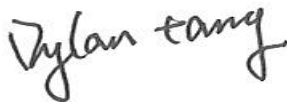
Type/Model: WPA02

FCC ID: XNAWPA02

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310
KDB447498 D01 General RF Exposure Guidance v06
KDB 680106 D01 RF Exposure Wireless Charging App v03

PREPARED BY:**REVIEWED BY:**

Project Engineer
Dylan Tang

Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
2502B1019SHA-004	Rev. 01	Initial issue of report	February 26, 2025

Measurement result summary

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Withings U-Scan Reader
Type/Model/PMN/HVIN:	WPA02
Description of EUT:	The EUT is Withings U-Scan Reader, it supports WPT functions, there is only one model. We test them and list the worst results in this report.
Rating:	DC 3.8V
EUT type:	☒ Table top ☐ Floor standing
Software Version:	v3101
Hardware Version:	v10a
Sample Identification No.:	A4:7E:FA:3C:C9:04
Sample received date:	January 24, 2025
Date of test:	February 10, 2025 ~ February 21, 2025

Note: SOP document (RF_EMI_STM32WB_test_procedure_v7) for reference in fixed frequency testing.

1.2 Technical Specification

Frequency Range:	112kHz – 200kHz
Modulation:	FSK
Antenna:	Planar Spiral Coil

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310

KDB 680106 D01 RF Exposure Wireless Charging App v03

KDB447498 D01 General RF Exposure Guidance v06

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
-	-	-	-

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	24	53	101

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Exposure Level Tester	Narda	NBM-550	EC 6113	2025-04-07
☒	E-Field sensor(100kHz-3GHz)	Narda	EF 0391	EC 6113-1	2025-04-07
☒	H-Field sensor(300kHz-30MHz)	Narda	HF 3061	EC 6113-2	2025-04-07
☒	Exposure Level Tester(1Hz-400kHz)	Narda	ELT-400	EC 2928	2025-07-15

2.6 Measurement uncertainty

Test Items	Expanded Uncertainty (k=2)
H-field	0.9 dB
E-field	1.1 dB

TEST REPORT

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

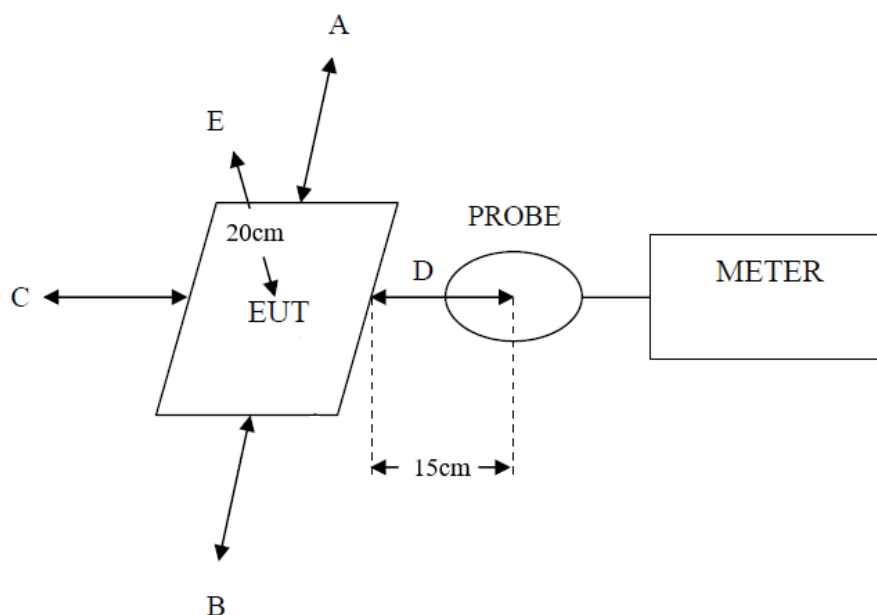
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
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 – 1 500	-	-	f/1500	30
1 500 – 100 000	-	-	1.0	30

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
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 – 1 500	-	-	f/300	6
1 500 – 100 000	-	-	5	6

3.2 Assessment Configuration



TEST REPORT

3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.0720	1.63 *0.5	Pass
B: Left	15	0.0651	1.63 *0.5	Pass
C: Front	15	0.2215	1.63 *0.5	Pass
D: Back	15	0.3925	1.63 *0.5	Pass
E: Top	20	0.0576	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	0.2876	614 *0.5	Pass
B: Left	15	0.3152	614 *0.5	Pass
C: Front	15	0.4988	614 *0.5	Pass
D: Back	15	0.5255	614 *0.5	Pass
E: Top	20	0.3086	614 *0.5	Pass

***** END *****