

# Test Report

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**Report No. : FCC2025-00005**

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Company : WiTS Co., Ltd.

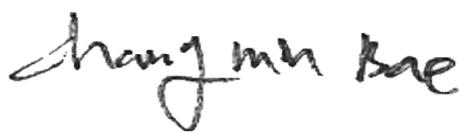
Representative : Eungtae, Kim

Address : 35, Hyeongje-ro, Namsa-eup, Cheoin-gu, Yongin-si, Gyeonggi-do, 999007, Korea

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1. Product Name : Single Wireless Charger  
-Model Name: GP-PWU025WIA
2. FCC ID : 2BMM4GPPWU025WIA
3. Date of Receipt : 2025-05-09
4. Date of test : 2025-05-09 ~ 2025-06-05
5. Testing Method : MPE Test Report
6. Test Result : PASS

**Tested by :** Chang Min, Bae



**Approved by :** Sung Ryul, Kim



1. The test results presented in this report are unrelated to KS Q ISO/IEC 17025 and KOLAS accreditation. The test results relate only to the object tested and are not representative of the quality of the entire product.
2. The report should not be used for other intended purposes including promotional, advertising, or litigation without the prior consent of KTC.
3. The authenticity of this test report can be verified on the KTC website ([www.ktc.re.kr](http://www.ktc.re.kr)).

Dated 2025. 06. 05.



## Korea Testing Certification institute

[www.ktc.re.kr](http://www.ktc.re.kr) [15809] 22, Heungan-daero 27beon-gil, Gunpo-si, Gyeonggi-do, Korea

TEL : +82-1899-7654, FAX : -82-31-428-2926

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## 1. General Information

### 1.1. Summary

Testing Laboratory	Korea Testing Certification
Testing location / address	22 Heungan-daero 27 beon-gil, Gunpo-si, Gyeonggi-Do, 15809, Republic of Korea
Designation Number	KR0006
Test Firm Registration Number	709616
Applicant	WiTS Co.,Ltd.
Address of Applicant	35, Hyeongje-ro, Namsa-eup, Cheoin-gu, Yongin-si, Gyeonggi-do, 999007, Korea
Manufacturer	Wits Vina Co., Ltd.
Address of Manufacture	Lot CN 16-1, YEN BINH IZ, DONG TIEN WARD, THAI NGUYEN PROVINCE, VIETNAM
Product Name	Single Wireless Charger
Model Name	GP-PWU025WIA
Power Supply	DC 12.0 V
Frequency Range	360 kHz
Modulation	ASK
Antenna Type	Coil Antenna
Hardware Version	Rev 07
Software Version	V1.0

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## 1.2. Test Information

### 1.2.1 Supporting Equipment Used During Test

Use	Manufacturer	Model	Comments
EUT	Wits Vina Co., Ltd.	GP-PWU025WIA	-
AE	Standard Load	-	-

Supplementary information

EUT = Equipment Under Test, AE = Auxiliary / Associated Equipment, SIM = Simulator (Not Subjected to Test)

### 1.2.2 Report revision History

Issue date	Report No.	Reason for issue
2025-06-05	FCC2025-00005	First issued.

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## 1.3. List of Test Equipment

Test Equipment Used					
Equipment	Model	Manufacturer	Serial Number	Last Cal. Date	Cal. Due Date
Electric and Magnetic Field Probe	EHP-200AC	Narda S.T.S.	180ZX30107	2025-01-13	2026-01-13

## 1.4. Measurement uncertainty

Parameter	Condition	Uncertainty
Electric Field Strength	Radiated	± 5.67 %
Magnetic Field Strength	Radiated	± 16.62 %

Note;  
-This uncertainty represents an expanded uncertainty expressed at approximately 95% confidence level using a coverage factor of k=2.

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## 2. RF Exposure Evaluation

### 2.1. TABLE 1 - LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
(A) Limits for Occupational /Control Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1 500			f/300	6
1 500-100 000			5	6
(B) Limits for General Population / Uncontrol Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1 500			f/1 500	30
1 500-100 000			1.0	30

f = frequency in MHz

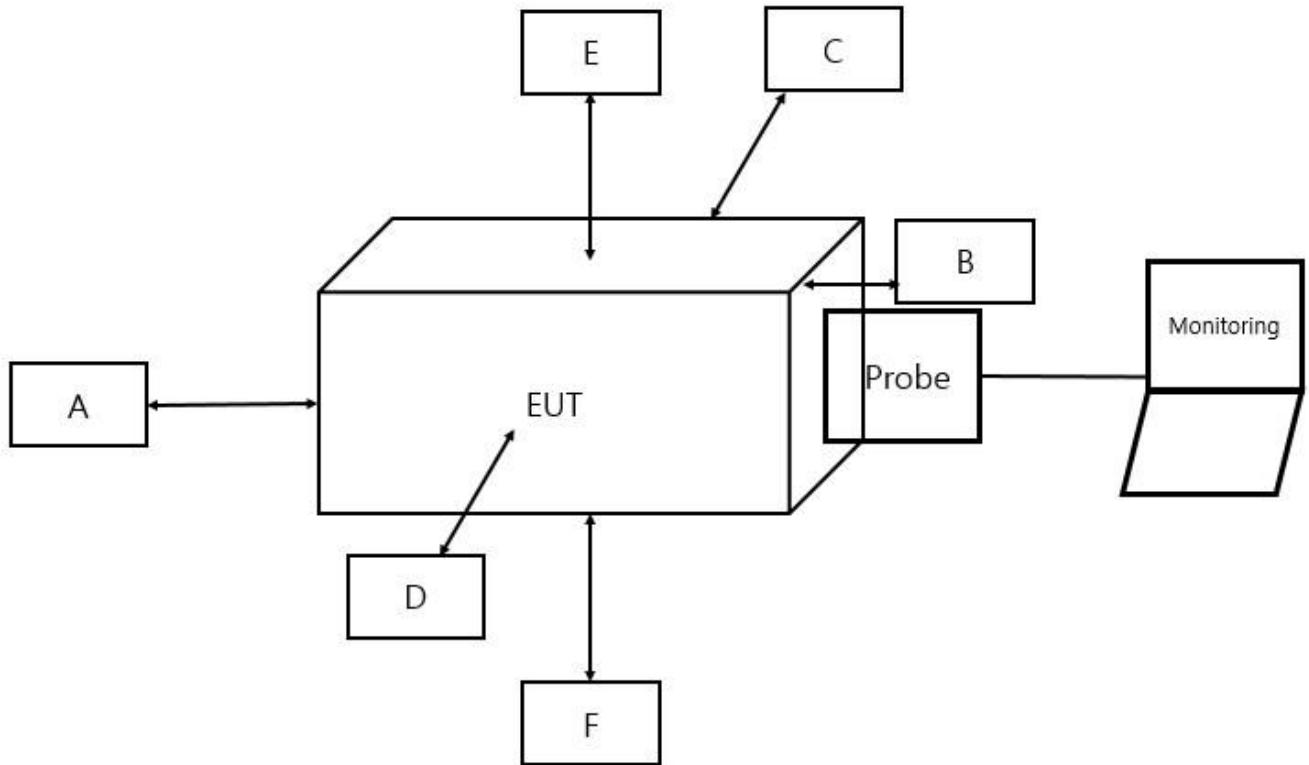
\* = Plane wave equivalent power density

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## 2.2. Test Setup

### 2.2.1 EUT Position



### 2.2.2 Test configurations

1. 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]")  
Measurement were from the top and all side of the DUT per KDB680106 D01 v04.
2. It were measured in all individual positions(A, B, C, D, E, F).

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## 2.3. Equipment Approval Considerations

Requirement	Device
1. The power transfer frequency is below 1 MHz.	Yes. 360 kHz
2. The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	Yes. Maximum output power is 15 watt.
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
4. Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).	Yes
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. 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 (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.	Yes
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. 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. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.	Yes

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## 2.4. Test result

Ambient Temp.

23 ± 1 °C

Relative Humidity

43 %

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PASS (Refer to below)

### 2.3.1 Charging with 15W (1 % battery status of client device)

-Electric Field

	Frequency Range (kHz)	Probe Position A		Probe Position B		Probe Position C		Probe Position D		Probe Position E		Probe Position F		Limit
E-field	360 kHz	0.77	V/m	0.84	V/m	0.91	V/m	0.79	V/m	1.21	V/m	0.88	V/m	614 V/m

-Magnetic Field

	Frequency Range (kHz)	Probe Position A		Probe Position B		Probe Position C		Probe Position D		Probe Position E		Probe Position F		Limit
H-field <sup>1)</sup>	360 kHz	0.02	A/m	0.01	A/m	0.02	A/m	0.02	A/m	0.03	A/m	1.34	A/m	130.4 A/m

Note;

In order to simplify the report, the worst case(15W) result are reported. (tested : 5W, 7.5W, 10W, 15W)  
 All test conditions were pre-tested, and the record was taken under the worst condition, which is a 1% battery status in a 15W charging state.

**- The end of test report -**