

TEST REPORT

Report No.: 8229EU010707W2

Applicant: QUEST USA CORP

Address: 495 Flatbush Ave, Brooklyn, NY 11225, USA

Product Name: 2 in 1 Wireless Magnetic Charging Station

Model No.: IJ1031-DG (refer to clause 2.4)

Trademark: IJOY

FCC ID: 2AJQ7ELITE

Test Standard(s): 47 CFR Part 1 Subpart I Section 1.1310

Date of Receipt: May 07, 2024

Test Date: May 07, 2024 – Aug. 28, 2024

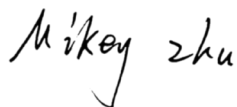
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ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



Prepared by:



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Revision Record

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V0	Aug. 28, 2024	Original	Valid



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2 General Information

2.1 Applicant Information

Applicant	QUEST USA CORP
Address	495 Flatbush Ave, Brooklyn, NY 11225, USA

2.2 Manufacturer Information

Manufacturer	Shenzhen Willsoon Electronic Technology Co., Ltd
Address	5/F Block A, No.10 East Area Shangxue Industrial Area, Bantian Town, Longgang District, Shenzhen, Guangdong, China

2.3 Factory Information

Factory	Shenzhen Willsoon Electronic Technology Co., Ltd
Address	5/F Block A, No.10 East Area Shangxue Industrial Area, Bantian Town, Longgang District, Shenzhen, Guangdong, China

2.4 General Description of E.U.T.

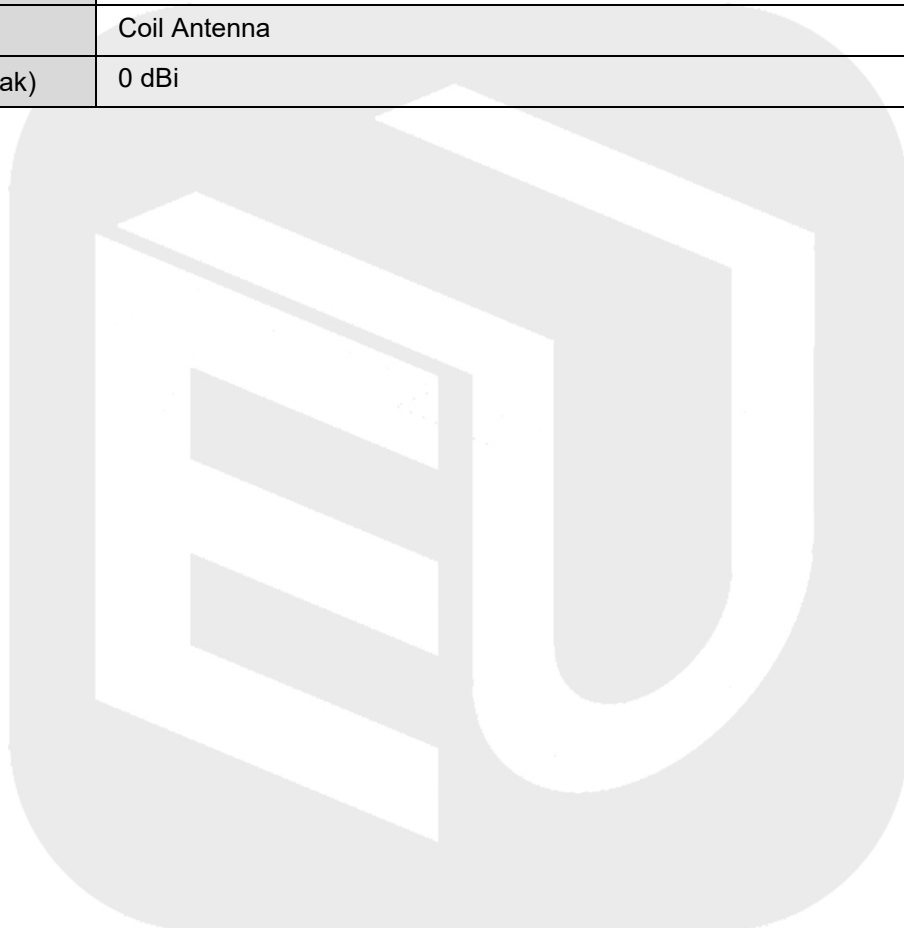
Product Name	2 in 1 Wireless Magnetic Charging Station
Model No. Under Test	IJ1031-DG
List Model No.	IJPDQ363-DG, IJ10310-DG, IJ10226-FB, IJ10227-FB, IJAST203-FB, IJ10310-DG
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in appearance color and model name. (this information provided by the customer)
Rating(s)	Input: 5V $\overline{}$ 3A; 9V $\overline{}$ 3A Total Output: 15W(Max) Wireless output for Phone: 15W(Max) Wireless output for Earbuds: 5W(Max)
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Test Sample No.	-1/1(Normal Sample)
Hardware Version	N/A
Software Version	N/A
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Technology Used	Wireless Power Transfer (WPT)
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The requirement for the following technical information of the EUT was tested in this report:

Technology	WPT
Operating Frequency	110.1-205 kHz
Modulation Type	FSK
Antenna Type	Coil Antenna
Antenna Gain(Peak)	0 dBi



3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.
2	KDB 680106 D01v04	RF exposure consideration for low power consumer wireless power transfer applications.

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	RF Exposure Evaluation	FCC 1.1310 KDB 680106 Section 5.2	Pass	--

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	AC 120V/60Hz

4.2 Test Equipment

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2024/02/15	2025/02/14

4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned bellow was evaluated respectively.

No.	Description	Remark
TM1	Wireless Output (5W for Phone)	
TM2	Wireless Output (7.5W for Phone)	
TM3	Wireless Output (10W for Phone)	
TM4	Wireless Output (15W for Phone)	
TM5	Wireless Output (5W for Earbuds)	
TM6	Wireless Output (10W for Phone + 5W for Earbuds)	
Note: 1. All the conditions have been tested. It is found that TM6 is the worst mode, and the data in the report only reflects the worst mode.		

5 RF Exposure Evaluation

5.1 Test Requirement

KDB 680106 D01 Wireless Power Transfer v04:

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.

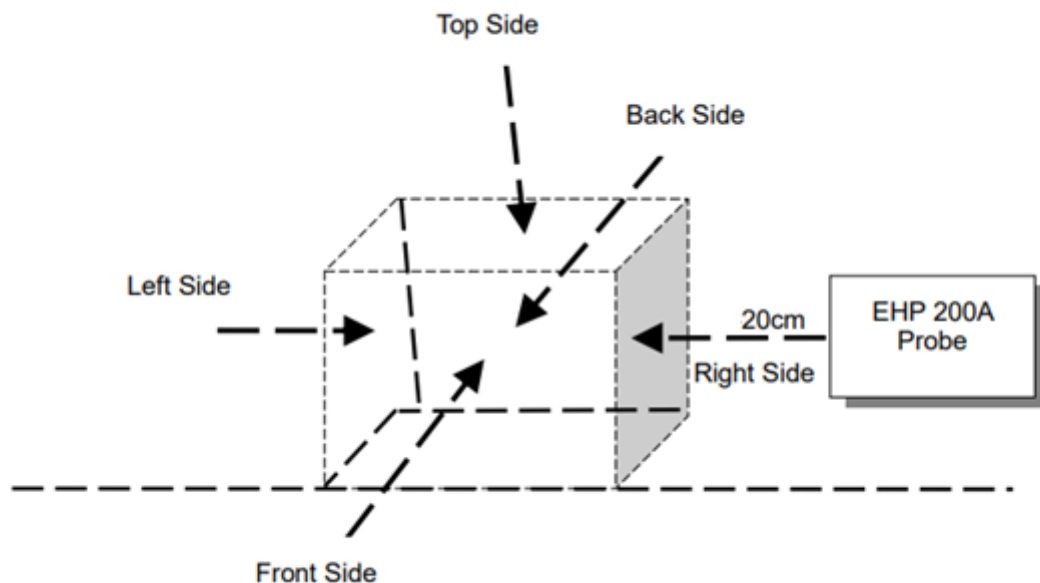
- Power transfer frequency is less than 1 MHz.
YES. The device operates in the frequency range from 115-205kHz.
- The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
YES. The maximum output power of the primary coil is 15W.
- A client device providing the maximum 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 transfer system includes only single primary and secondary coils.
- Client device is placed directly in contact with the transmitter.
YES. Client device is placed directly in contact with the transmitter.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
YES. The EUT is a Wireless Charging mobile.
- The aggregate H-field strengths anywhere at or beyond 20 cm surrounding the device, and 20cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.
YES. The EUT field strength levels are less than 50% X MPE limit.

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 ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
(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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

5.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm measured from the center of the probe(s) to the edge of the device.

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20cm) 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, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

5.1 Evaluation Result

Test Condition: Test Mode 6 operating with client device (1% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	3.0910	614	0.84%	0.1318	1.63	14.10%
Bottom	3.7608			0.1345		
Front	1.5793			0.1026		
Rear	5.1471			0.2299		
Left	2.4104			0.0597		
Right	3.8241			0.1490		

Test Condition: Test Mode 6 operating with client device (50% battery status of client device)

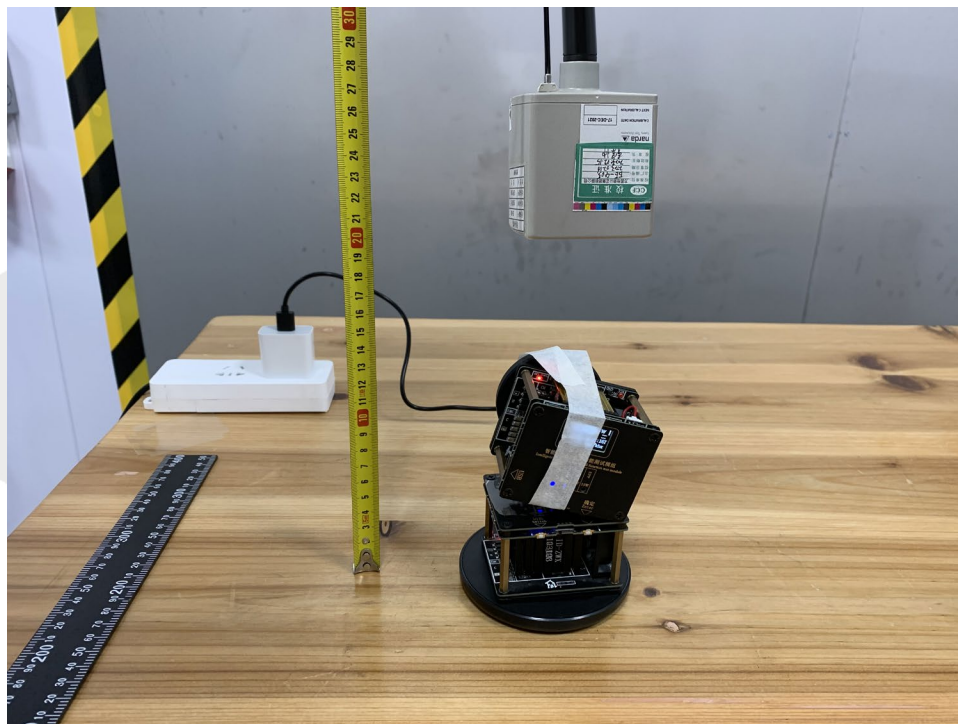
Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	2.6974	614	0.80%	0.0757	1.63	13.84%
Bottom	3.6061			0.1396		
Front	0.9176			0.0044		
Rear	4.9065			0.2256		
Left	2.5370			0.0859		
Right	3.1616			0.0796		

Test Condition: Test Mode 6 operating with client device (99% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	2.4276	614	0.82%	0.0428	1.63	20.60%
Bottom	3.4123			0.1812		
Front	1.4700			0.1208		
Rear	5.0315			0.3358		
Left	2.2849			0.1243		
Right	3.4766			0.1226		

ANNEX A TEST SETUP PHOTOS

PHOTO 1



Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
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7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--- End of Report ---