

TEST REPORT

Report No.: 8236EU010313W2

Applicant: QUEST USA CORP

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

Product Name: 15W 3-IN-1 WIRELESS MAGNETIC CHARGER

Model No.: IJ10375-FB (refer to clause 2.4)

Trademark: IJOY

FCC ID: 2AJQ7TRAVELCHARGER

Test Standard(s): 47 CFR Part 1 Subpart I Section 1.1310
47 CFR Part 2, Subpart J, Section 2.1091

Date of Receipt: Dec. 03, 2024

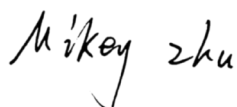
Test Date: Dec. 03, 2024 – Jan. 07, 2025

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ISSUED BY:
SHENZHEN EU TESTING LABORATORY LIMITED



Prepared by:



Mikey Zhu/ Engineer

Reviewed and Approved by:



Sally Zhang/ Manager

Revision Record

| Report Version | Issued Date | Description | Status |
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| V0 | Jan. 13, 2025 | Original | Valid |
| | | | |
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Table of Contents

| | | |
|---------|-------------------------------------|----|
| 1 | COVER PAGE..... | 1 |
| 2 | GENERAL INFORMATION | 4 |
| 2.1 | APPLICANT INFORMATION..... | 4 |
| 2.2 | MANUFACTURER INFORMATION..... | 4 |
| 2.3 | FACTORY INFORMATION..... | 4 |
| 2.4 | GENERAL DESCRIPTION OF E.U.T..... | 4 |
| 2.5 | TECHNICAL INFORMATION OF E.U.T..... | 5 |
| 3 | TEST SUMMARY | 6 |
| 3.1 | TEST STANDARD | 6 |
| 3.2 | TEST VERDICT..... | 6 |
| 3.3 | TEST LABORATORY | 6 |
| 4 | TEST CONFIGURATION..... | 7 |
| 4.1 | TEST ENVIRONMENT | 7 |
| 4.2 | TEST EQUIPMENT | 7 |
| 4.3 | TEST MODE | 7 |
| 4.4 | MEASUREMENT UNCERTAINTY | 7 |
| 5 | RF EXPOSURE EVALUATION | 8 |
| 5.1 | TEST REQUIREMENT | 8 |
| 5.2 | TEST SETUP..... | 9 |
| 5.1 | EVALUATION RESULT | 10 |
| ANNEX A | TEST SETUP PHOTOS | 11 |

2 General Information

2.1 Applicant Information

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

2.2 Manufacturer Information

| | |
|--------------|---|
| Manufacturer | QUEST USA CORP China Office |
| Address | 601 Bld1, Cloud Park, 233 Bulong Road, Longgang, Shenzhen, China 518112 |

2.3 Factory Information

| | |
|---------|---|
| Factory | QUEST USA CORP China Office |
| Address | 601 Bld1, Cloud Park, 233 Bulong Road, Longgang, Shenzhen, China 518112 |

2.4 General Description of E.U.T.

| | |
|--------------------------------------|---|
| Product Name | 15W 3-IN-1 WIRELESS MAGNETIC CHARGER |
| Model No. Under Test | IJ10375-FB |
| List Model No. | IJ10374-FB, IJ10375-FB, IJ10376-FB, IJAST419-FB |
| 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) | Smart Phone: Input: 5V---2A, 9V---2A Output: 15W(Max) Earphone: Input: 5V---1A Output: 3W(Max) Apple Watch: Input: 5V---1A Output: 2.5W(Max) |
| Product Type | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location |
| Test Sample No. | -1/2(Normal Sample), -2/2(Engineering Sample) |
| Hardware Version | N/A |
| Software Version | N/A |
| Remark | 1) The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. 2) 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.

| | |
|-----------------------------------|-------------------------------|
| Network and Wireless Connectivity | Wireless Power Transfer (WPT) |
|-----------------------------------|-------------------------------|

The requirement for the following technical information of the EUT was tested in this report:

| | |
|---------------------|--|
| Technology | WPT |
| Operating Frequency | 110.1-205KHz |
| Modulation Type | FSK |
| Antenna Type | Inductive Loop Coil Antenna |
| Antenna Gain(Peak) | 0 dBi |
| Remark | The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. |

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 | 47 CFR Part 2, Subpart J, Section 2.1091 | Radiofrequency radiation exposure evaluation: mobile devices |
| 3 | 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 FCC 2.1091 KDB 680106 D01 Wireless Power Transfer v04 | 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) | 120 VAC, 60Hz |

4.2 Test Equipment

| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
|--|--------------|----------|-----------|------------|--------------|
| Electric and Magnetic Field Probe - Analyzer | Narda | EHP-200A | EE-405 | 2024/02/13 | 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 (2.5W for Apple Watch) + (3W for Earphone) + (15W for Phone) + Empty Load | |
| TM2 | Wireless Output (2.5W for Apple Watch) + (3W for Earphone) + (15W for Phone) + Half Load | |
| TM3 | Wireless Output (2.5W for Apple Watch) + (3W for Earphone) + (15W for Phone) + Full Load | Record |
| TM4 | Standby | |

Note:

1. All the conditions have been tested. It is found that TM3 is the worst mode, and the data in the report only reflects the worst mode.

4.4 Measurement Uncertainty

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

| Test Item | Measurement Uncertainty |
|---|-------------------------|
| Magnetic field measurements(3kHz~10MHz) | ±14.6% |
| Electric field measurements(3kHz~10MHz) | ±17.3% |

5 RF Exposure Evaluation

5.1 Test Requirement

§1.1310: 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

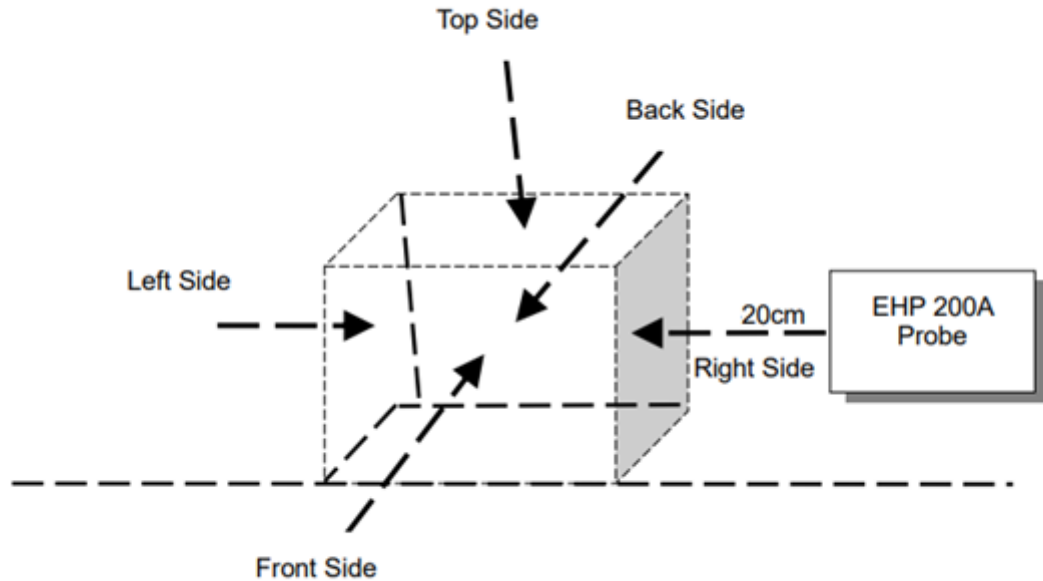
| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|----------------------------------|----------------------------------|--|-----------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 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).

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 3 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 | 4.0386 | 614 | 0.84% | 0.3084 | 1.63 | 14.10% |
| Bottom | 4.8534 | | | 0.1775 | | |
| Front | 3.2503 | | | 0.0909 | | |
| Rear | 4.3660 | | | 0.1597 | | |
| Left | 3.1738 | | | 0.2702 | | |
| Right | 2.5122 | | | 0.0655 | | |

Test Condition: Test Mode 3 operating with client device (50% battery status of client device)

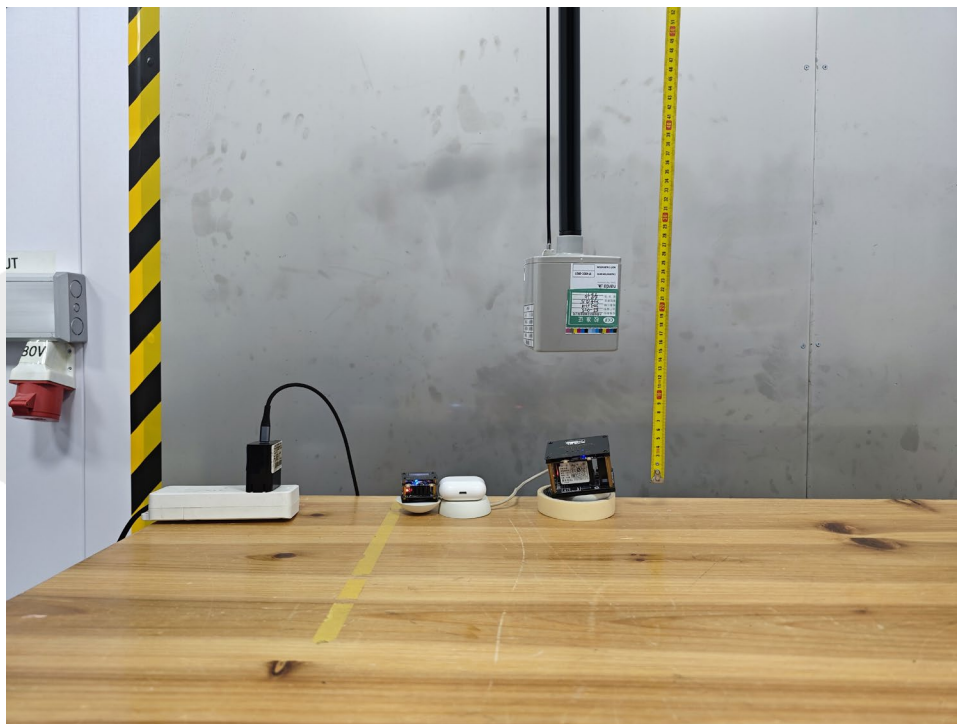
| Test Position | E-field (V/m) | | | H-field (A/m) | | |
|---------------|---------------|-------|---------------------|---------------|-------|---------------------|
| | Measurement | Limit | Max. Percentage (%) | Measurement | Limit | Max. Percentage (%) |
| Top | 4.9748 | 614 | 0.80% | 0.2465 | 1.63 | 13.84% |
| Bottom | 5.5880 | | | 0.1426 | | |
| Front | 3.4103 | | | 0.0729 | | |
| Rear | 2.7262 | | | 0.1274 | | |
| Left | 3.7347 | | | 0.2162 | | |
| Right | 4.4274 | | | 0.0523 | | |

Test Condition: Test Mode 3 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 | 5.2593 | 614 | 0.82% | 0.3845 | 1.63 | 20.60% |
| Bottom | 3.2314 | | | 0.3182 | | |
| Front | 2.4466 | | | 0.1574 | | |
| Rear | 2.5323 | | | 0.0313 | | |
| Left | 5.1808 | | | 0.2376 | | |
| Right | 3.3614 | | | 0.3079 | | |

ANNEX A TEST SETUP PHOTOS

PHOTO 1



STATEMENT

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--- End of Report ---