

Maximum Permissible Exposure

FCC ID : 2APXN-HSCL03WC
Equipment : Wireless Charger Module
Brand Name : hp
Model Name : HSC-L03WC
Applicant : ASAP Technology(Jiangxi) Co., Ltd
Ji'an Industrial Park, Ji'anJiangxi, 343100, China
Manufacturer : ASAP Technology(Jiangxi) Co., Ltd
Ji'an Industrial Park, Ji'anJiangxi, 343100, China
Standard : 47 CFR Part 2.1091

The product was received on Nov. 05, 2021, and testing was started from Nov. 16, 2021 and completed on Nov. 17, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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APPENDIX A. TEST PHOTOS

PHOTOGRAPHS OF EUT V01



Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|-----------------|------------------------------|--------------------|--------|
| 2 | - | Maximum Permissible Exposure | PASS | - |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Sam Tsai

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 EUT General Information

| RF General Information | | | |
|------------------------|-----------------|---------------------|-----------------|
| Evaluation Mode | Frequency Range | Operating Frequency | Modulation Type |
| WPC | 120-130 kHz | 120 | ASK |

1.1.2 Antenna Information

| Ant. | Brand | Model Name | Antenna Type | Connector |
|------|-------|------------------------|--------------|-----------|
| 1 | ARK | FZ-T50X5.3X0.802-7089A | coils | N/A |

1.1.3 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

| Model Name | Sample | Description |
|------------|--------|--|
| HSC-L03WC | 1 | All the samples are identical, the difference is size of case. |
| | 2 | |

Note: There are two Samples and Sample 2 was used to perform the worst configuration and result of that was recorded as the final test result.

1.1.4 Support Equipment

| Support Equipment | | | | | |
|-------------------|-----------|-------------------------|------------|--------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID | Remark |
| 1 | Adapter | ASAP Technology Jiangxi | LACW012 | - | Note 1 |
| 2 | Load | luxshare | 002 | - | Note 1 |
| 3 | Fixture | luxshare | RX001 | - | Note 1 |

Note 1: Provided by Customer.



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2.1091

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB680106 D01 RF Exposure Wireless Charging Apps v03r01

1.3 Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory | | | | |
|--|------------------------|--|----------------------|-------------------------|
| <input checked="" type="checkbox"/> | Hsinhua (TAF: 3785) | ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) | | |
| | | TEL: 886-3-327-3456 | FAX: 886-3-327-0973 | |
| Test site Designation No. TW3785 with FCC. | | | | |
| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
| RF Conducted | TH06-HY | Alan Chien | 20.1~26.9°C / 50~60% | 16/Nov/2021~17/Nov/2021 |



2 Human Exposure Assessment

2.1 Maximum Permissible Exposure

2.1.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|--|--|
| 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

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|--|--|
| 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 |

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

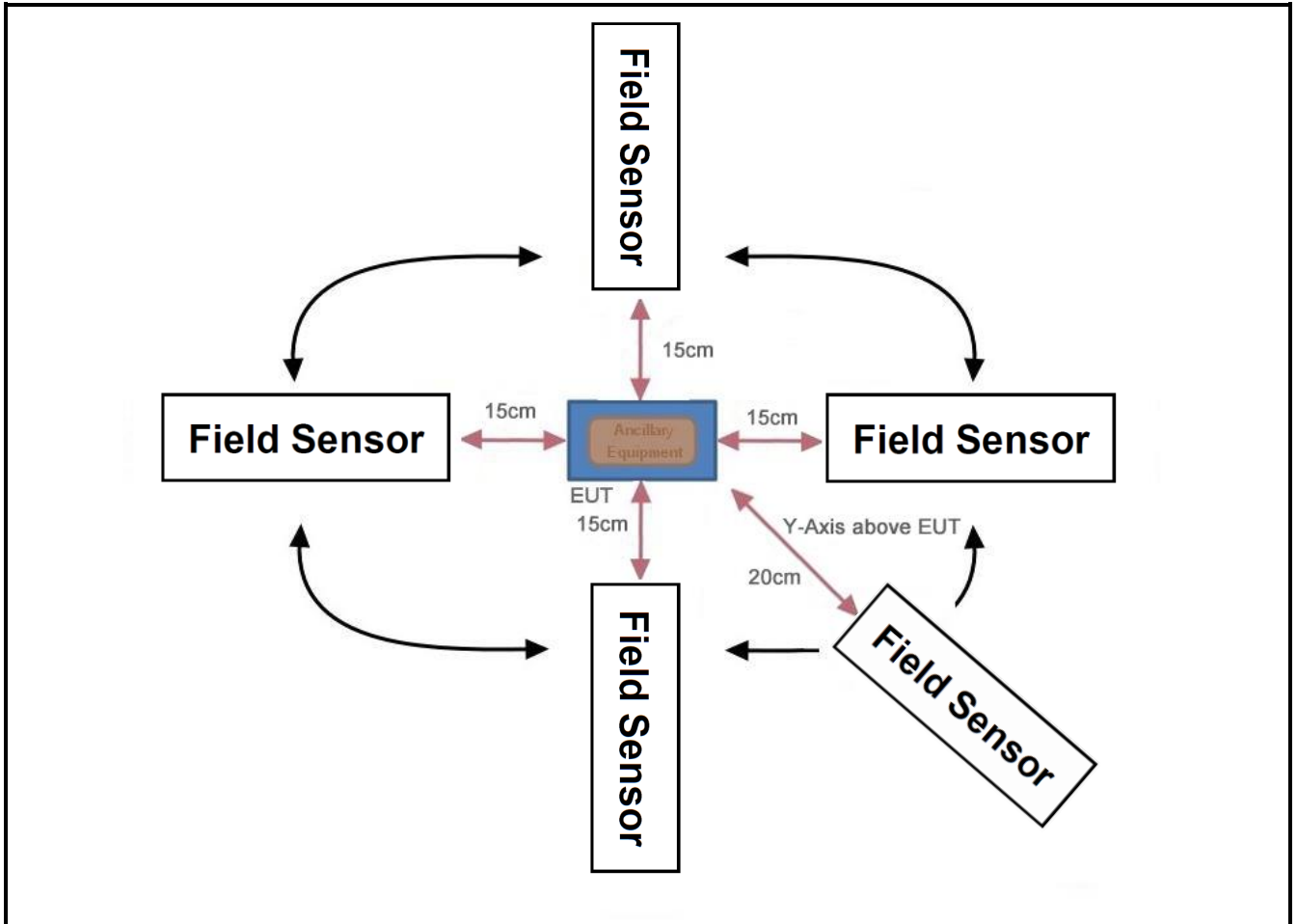
2.1.2 The Worst Condition

| Ancillary Equipment | Evaluation Mode | Worst Condition |
|---------------------|-----------------|-----------------|
| Load | WPC | Full load |

2.1.3 Test Method

| Test Method |
|---|
| <input checked="" type="checkbox"/> Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils. |
| <input checked="" type="checkbox"/> During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., mobile phone) was placed on the EUT for charging. Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength. |

2.1.4 Test Setup



Note 1 : find worst position for each axis.

Note 2 : This shall be measured as the distance from the edge of the device to the center of the measurement probe.



2.1.5 Result of Maximum Permissible Exposure

| Maximum Permissible Exposure | | | | |
|------------------------------|------------|---------------------|---------------|---------------|
| Charging Condition | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| Full load | 15cm | Left | 0.525 | 0.047 |
| | 15cm | Right | 0.4515 | 0.379 |
| | 15cm | Top | 0.5289 | 0.032 |
| | 15cm | Bottom | 0.4638 | 0.023 |
| | 20cm | Y-axis above EUT | 1.4488 | 0.182 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.24% | 23.25% |



3 Test Equipment and Calibration Data

Instrument for Conducted Test

| Instrument | Manufacturer/ Brand Name | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date |
|--|-------------------------------------|------------------|-------------------|--------------|-------------------------|---------------------------------|
| Electric and Magnetic field Probe - Analyzer | Narda S.T.S. / PMM | EHP 200AC | 170WX80309 | 3kHz~30MHz | 26/Oct/2021 | 25/Oct/2022 |