

# Merchsource, LLC

# TEST REPORT

## SCOPE OF WORK

SAR Assessment– 1014038 1014039, 1014040, 1014041, 1014042, 1014043

## REPORT NUMBER

201124058SZN-002

## ISSUE DATE

04 December 2020

## [REVISED DATE]

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## PAGES

6

## DOCUMENT CONTROL NUMBER

RF Exposure

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## Test Report

Applicant : Merchsource, LLC  
7755 Irvine Center Drive, Suite 100, Irvine, CA 92618

Sample Description

Product : Charging Pad Wireless 5Watt and 6ft Cord PDQ  
Model No. : 1014038,  
1014039, 1014040, 1014041, 1014042, 1014043

Brand Name : Sharper Image  
Electrical Rating : Input: DC 5V, 2A from adaptor  
Wireless charging output: DC5V, 1A

Date Received : November 26, 2020  
Date Test Conducted : November 26, 2020 to 04 December 2020

Test Requested : Test for compliance with CFR 47 part 1  
Test Method : Environmental evaluation and exposure limit according  
to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

Test Result : Pass  
Conclusion : When determining of test conclusion, measurement  
uncertainty of tests have been considered.

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**Prepared and Checked By:**

**Approved By:**

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**Engineer**

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**Kidd Yang**  
**Technical Supervisor**  
**Date: 04 December 2020**

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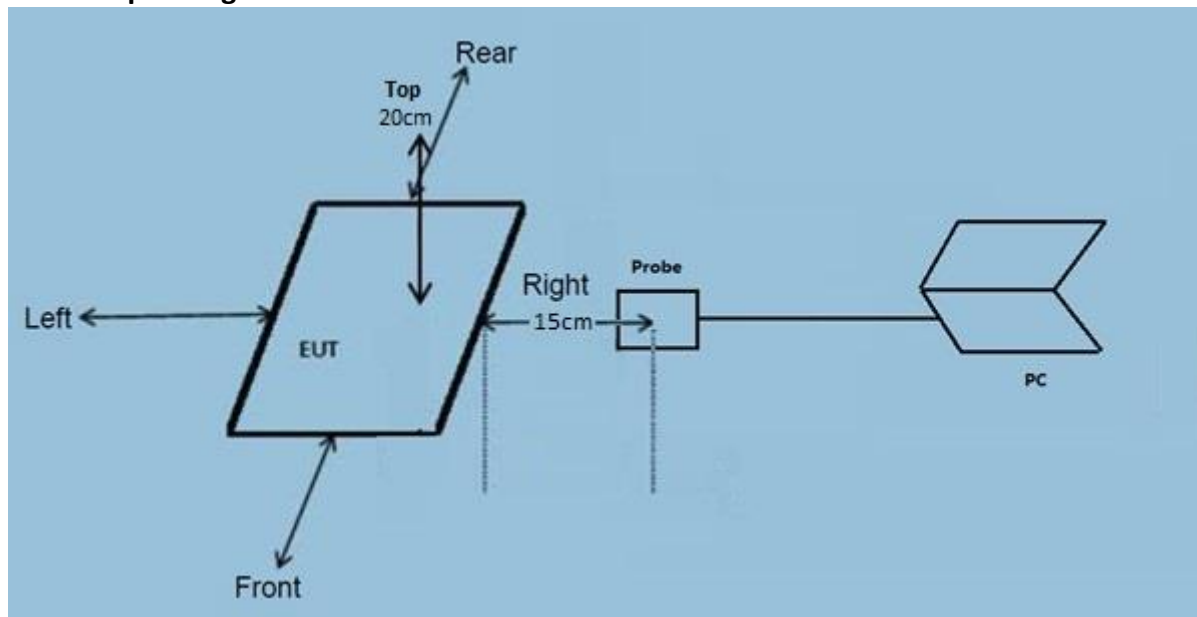
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## Test Report

### Test Setup Configuration



#### Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.

### Test Equipment List

| Equipment No. | Equipment                            | Manufacturer | Model No. | Serial No. | Cal. Date  | Due Date   |
|---------------|--------------------------------------|--------------|-----------|------------|------------|------------|
| SZ186-04      | Electric and Magnetic Field Analyzer | Narda        | EHP-50F   | 510WY90119 | 2020-07-28 | 2021-07-28 |

**Reference Limit:**

**Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310**

According to FCC 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.

**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/Controlled Exposure         |                               |                               |                                     |                        |
| 0.3 – 3.0                                               | 614                           | 1.63                          | (100) *                             | 6                      |
| (B) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                        |
| 0.3 – 1.34                                              | 614                           | 1.63                          | (100) *                             | 30                     |

Note: \* = Plane wave equivalent power density

**Test Result:**
**H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT**

| Frequency Range (MHz) | EUT Operation mode | Probe Position Front (A/m) | Probe Position Rear (A/m) | Probe Position Left (A/m) | Probe Position Right (A/m) | Probe Position Top (A/m) | Limits (A/m) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.110-0.205           | 1% Battery Level   | 0.0642                     | 0.0652                    | 0.0652                    | 0.0569                     | 0.0569                   | 1.63         |
| 0.110-0.205           | 50% Battery Level  | 0.0614                     | 0.0590                    | 0.0635                    | 0.0525                     | 0.0515                   | 1.63         |
| 0.110-0.205           | 99% Battery Level  | 0.0635                     | 0.0634                    | 0.0655                    | 0.0559                     | 0.0542                   | 1.63         |
| 0.110-0.205           | Stand-by           | 0.0605                     | 0.0641                    | 0.0639                    | 0.0530                     | 0.0553                   | 1.63         |

**E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT**

| Frequency Range (MHz) | EUT Operation mode | Probe Position Front (V/m) | Probe Position Rear (V/m) | Probe Position Left (V/m) | Probe Position Right (V/m) | Probe Position Top (V/m) | Limits (V/m) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.110-0.205           | 1% Battery Level   | 0.4059                     | 0.4242                    | 0.4059                    | 0.4242                     | 0.4242                   | 614          |
| 0.110-0.205           | 50% Battery Level  | 0.4102                     | 0.4128                    | 0.4139                    | 0.4243                     | 0.4291                   | 614          |
| 0.110-0.205           | 99% Battery Level  | 0.4019                     | 0.4203                    | 0.4092                    | 0.4139                     | 0.4391                   | 614          |
| 0.110-0.205           | Stand-by           | 0.4084                     | 0.4228                    | 0.4083                    | 0.4203                     | 0.4201                   | 614          |

## Configuration photo of the test:

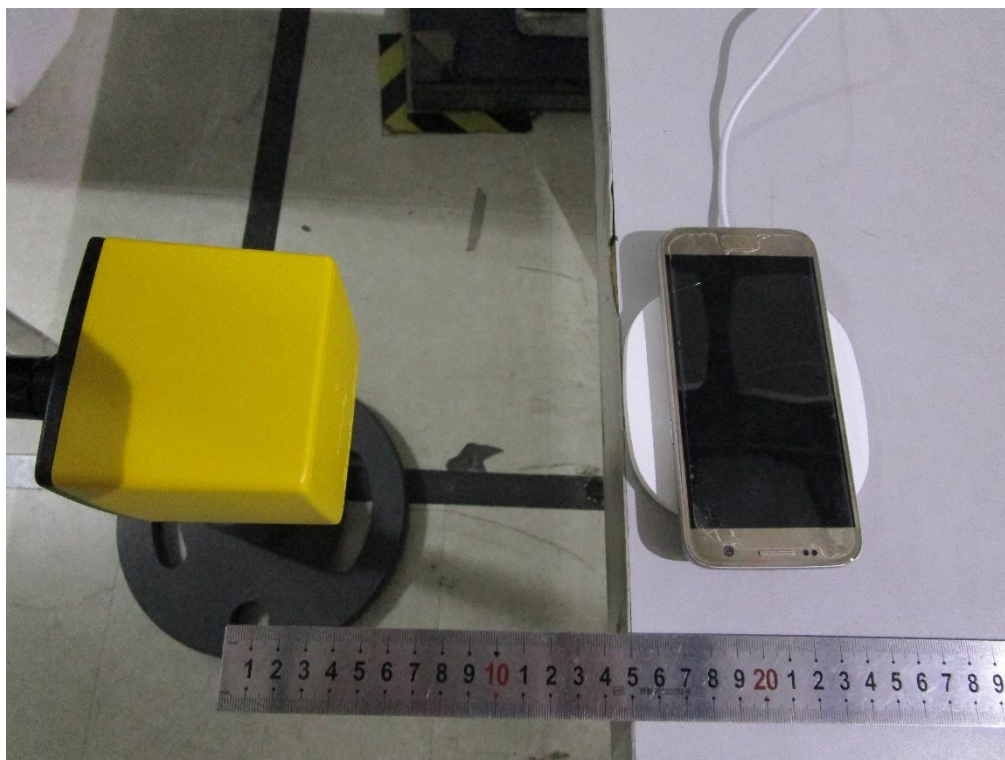
H-Field & E-Field Strength test photos



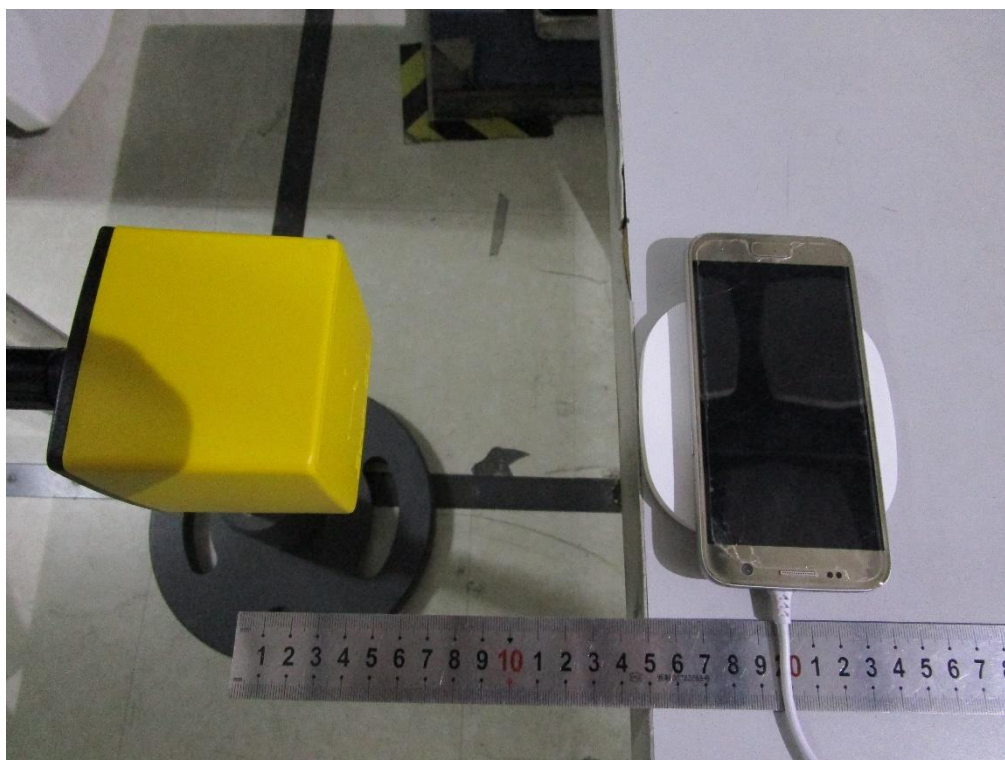
Front



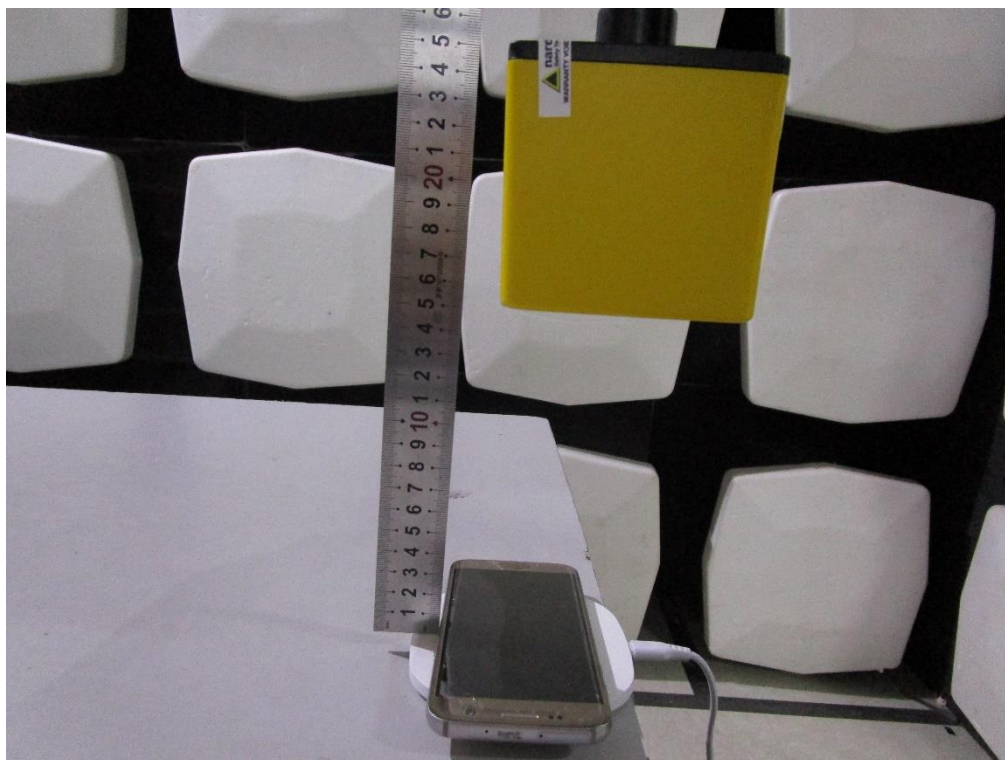
Rear



Left



Right



Top

\*\*\*\*\* End of Report\*\*\*\*\*