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MerchSource, LLC.

TEST REPORT

SCOPE OF WORK
SAR ASSESSMENT–1009476, 1012022

REPORT NUMBER
190730007SZN-004

ISSUE DATE **[REVISED DATE]**

AUGUST 16, 2019 [----------]

PAGES
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DOCUMENT CONTROL NUMBER
RF Exposure
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Test Report

Applicant: MerchSource, LLC. Number: 190730007SZN-004

Applicant Address: 7755 Irvine Center Drive, Suite 100, Irvine, California, United States Date: August 16, 2019

Sample Description
Product : Clock Radio with Wireless Charging
Model No. : 1009476, 1012022

Brand Name : Sharper Image
Electrical Rating : DC 5V/2A

Date Received : 30 July 2019

Date Test Conducted : 30 July 2019 to 15 August 2019

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.

.

********** End of Page **********

Prepared and Checked By:

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Date: August 16, 2019

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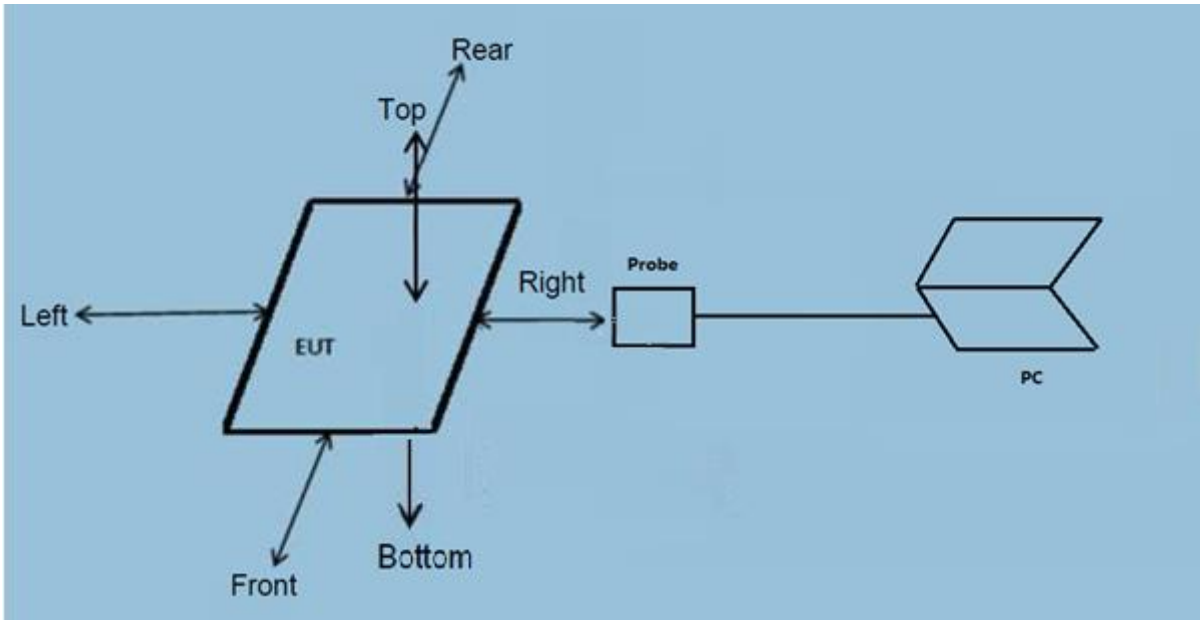
Test Report

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 measurement probe.
- Test at 0cm, 5cm, 10cm or 15cm respectively.

The Model: 1012022 is the same as the Model: 1009476 in hardware and electrical aspect. The difference in model number serves as marketing strategy.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Exposure Level Tester	EHP-50F	Narda	01-Apr-2019	01-Apr-2020

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^2)	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 0 cm surrounding 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)
0.110-0.215	1% battery level	0.391	0.421	0.430	0.416	0.463	1.63
0.110-0.215	50% battery level	0.372	0.407	0.411	0.395	0.438	1.63
0.110-0.215	99% battery level	0.364	0.397	0.391	0.387	0.417	1.63

E-Field Strength at 0 cm surrounding 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)
0.110-0.215	1% battery level	3.8	4.1	4.2	4.0	4.5	614
0.110-0.215	50% battery level	3.5	3.9	3.9	3.7	4.2	614
0.110-0.215	99% battery level	3.4	3.8	3.7	3.6	4.0	614

H-Field Strength at 5 cm surrounding 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)
0.110-0.215	1% battery level	0.379	0.391	0.396	0.389	0.425	1.63
0.110-0.215	50% battery level	0.362	0.380	0.385	0.374	0.402	1.63
0.110-0.215	99% battery level	0.349	0.367	0.371	0.368	0.381	1.63

E-Field Strength at 5 cm surrounding 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)
0.110-0.215	1% battery level	3.7	3.9	3.8	3.8	4.2	614
0.110-0.215	50% battery level	3.4	3.5	3.6	3.4	3.9	614
0.110-0.215	99% battery level	3.3	3.4	3.4	3.3	3.6	614

H-Field Strength at 10 cm surrounding 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)
0.110-0.215	1% battery level	0.363	0.374	0.377	0.371	0.392	1.63
0.110-0.215	50% battery level	0.355	0.362	0.365	0.359	0.383	1.63
0.110-0.215	99% battery level	0.339	0.354	0.352	0.346	0.366	1.63

E-Field Strength at 10 cm surrounding 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)
0.110-0.215	1% battery level	3.5	3.7	3.6	3.5	3.9	614
0.110-0.215	50% battery level	3.1	3.4	3.4	3.3	3.6	614
0.110-0.215	99% battery level	2.9	3.1	3.2	3.0	3.3	614

H-Field Strength at 15 cm surrounding 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)
0.110-0.215	1% battery level	0.340	0.361	0.343	0.350	0.374	1.63
0.110-0.215	50% battery level	0.336	0.354	0.335	0.343	0.361	1.63
0.110-0.215	99% battery level	0.320	0.348	0.326	0.328	0.356	1.63

E-Field Strength at 15 cm surrounding 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)
0.110-0.215	1% battery level	3.1	3.2	3.2	3.1	3.5	614
0.110-0.215	50% battery level	2.9	3.1	3.0	2.8	3.3	614
0.110-0.215	99% battery level	2.6	2.8	2.8	2.6	3.0	614

Configuration photo of the test:

For electronic filing, the RF exposure configuration photographs are saved with filename: RF exposure photos.pdf.

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