Targus International LLC

TEST REPORT

SCOPE OF WORK
SAR Assessment– APW110

REPORT NUMBER
210901037SZN-002

ISSUE DATE	**[REVISED DATE]**
29 October 2021	[----------]

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DOCUMENT CONTROL NUMBER
RF Exposure

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Test Report

Applicant	:	Targus International LLC 1211 North Miller Street,Anaheim, California 92806 USA
Sample Description		
Product	:	Wireless Charger
Model No.	:	APW110
Electrical Rating	:	Input: 5V/2A, 9V/2A, 12V/1.5A, Wireless Output: 10.0W Max
Date Received	:	03 September 2021
Date Test Conducted	:	03 September 2021 to 10 September 2021
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 KDB 680106 D01 RF Exposure Wireless Charging App v03r01
Test Result	:	Pass
Conclusion	:	When determining of test conclusion, measurement uncertainty of tests have been considered.

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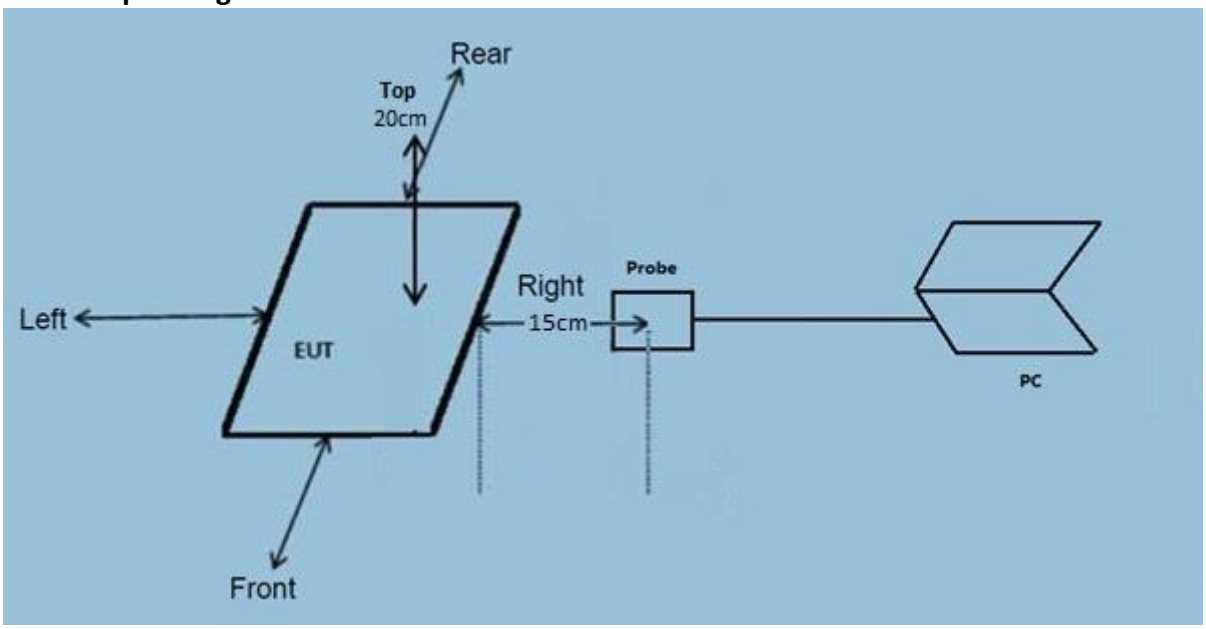
Approved By:

Peter Kang
Sr. Technical Supervisor
Date: 29 October 2021

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	2021-07-20	2022-07-20

This product was tested in the following configuration:

Description	Manufacturer	Detail
Mobile phone	NIL (Provided by Intertek)	Manufacturer: Samsung Model: S7
USB cable	NIL (Provided by applicant)	Unshielded, Length 100cm
Adapter	XIAOMI (Provided by Intertek)	Model: MDY-05-EW Input: 100-240Vac 50/60Hz 0.35A Output: 5Vdc 2.0A

Justification

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power

The EUT was powered by an adapter with 120V/60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. that both coils have been tested and only the worst-case data was shown in this report.

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:
During test, the mobile handset is being charged.
Worst Case Operating Mode: Mode 2

Test Result for wireless power transmit part:
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)
0.112-0.205	1% Battery Level	0.1414	0.1368	0.1368	0.1365	0.1365	1.63
0.112-0.205	50% Battery Level	0.1246	0.1246	0.1352	0.1339	0.1339	1.63
0.112-0.205	99% Battery Level	0.1420	0.1420	0.1375	0.1375	0.1383	1.63
0.112-0.205	Stand-by	0.1376	0.1376	0.1162	0.1162	0.1383	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)
0.112-0.205	1% Battery Level	0.6305	0.6482	0.6482	0.4926	0.4926	614
0.112-0.205	50% Battery Level	0.6183	0.6273	0.6110	0.4742	0.4742	614
0.112-0.205	99% Battery Level	0.6043	0.4981	0.5038	0.5038	0.4303	614
0.112-0.205	Stand-by	0.4790	0.4790	0.6708	0.6708	0.4303	614

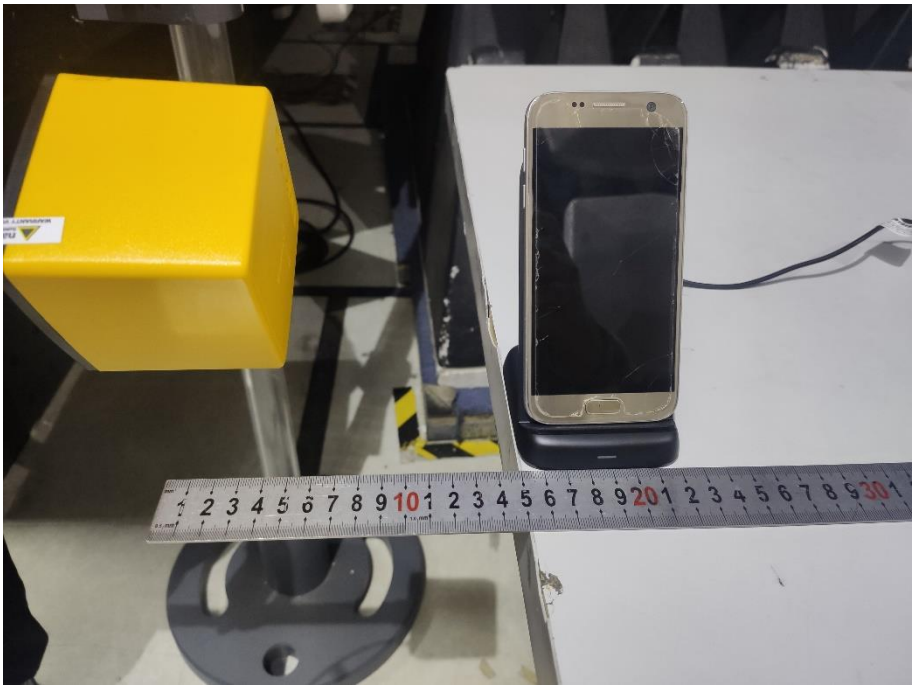
Configuration photo of the test:

H-Field & E-Field Strength test photos

Front

Rear

Left



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