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Dongguan AD Plaus Technology Limited

TEST REPORT

SCOPE OF WORK
SAR Assessment– 15W WIRELESS CHARGING PAD

REPORT NUMBER
240821041SZN-002

ISSUE DATE	**[REVISED DATE]**
12 October 2024	[----------]

PAGES
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DOCUMENT CONTROL NUMBER
RF Exposure
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Intertek No.: 240821041SZN-002

Test Report

Applicant	:	Dongguan AD Plaus Technology Limited No.5, Baihao Yanhe 2nd Road, Houjie Town, Dongguan, Guangdong Province, China
Sample Description		
FCC ID	:	2BK83-411701
Product	:	GS Wireless Charging Pad
Model No.	:	15W WIRELESS CHARGING PAD
Brand Name	:	MARVEL, STARWARS, GameStop
Electrical Rating	:	Input: DC 5V 2A,9V 2A, 12V 2A Wireless Output: 5W/7.5W/10W/15.0W Max
Date Received	:	21 August 2024
Date Test Conducted	:	21 August 2024 to 19 September 2024
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 Wireless Power Transfer v04
Test Result	:	Pass
Conclusion	:	When determining of test conclusion, measurement uncertainty of tests have been considered.

Prepared and Checked By:

Tony

Tony Tang
Engineer

Approved By:

Johnny Wang

Johnny Wang
Project Engineer
Date: 12 October 2024

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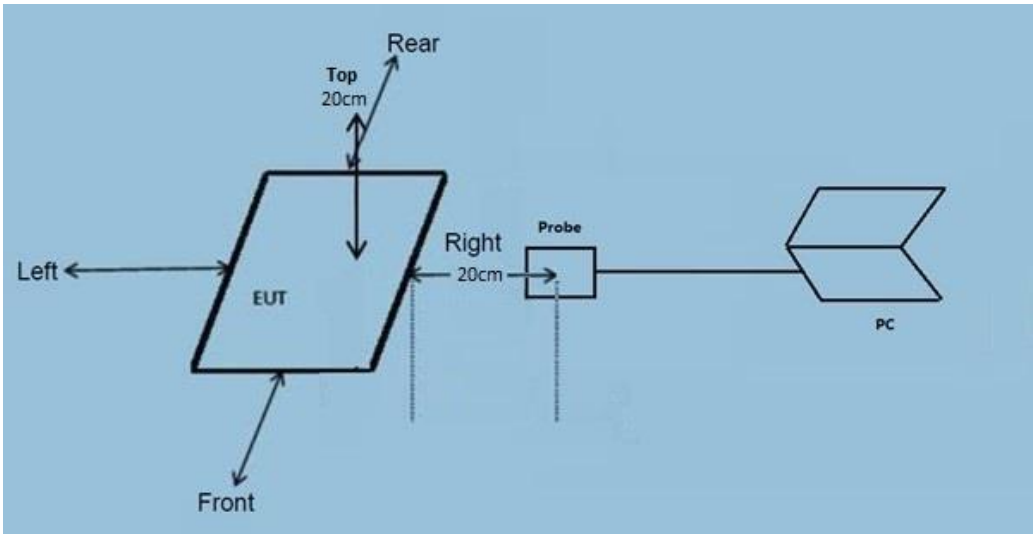
Test Report

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 the measurement probe.

Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ186-06	The Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8D3D+E3D	2024-03-07	2025-03-07

Support Equipment List

Description	Manufacturer	Detail
Mobile phone	Samsung (Provided by Intertek)	Model: S7
Adapter	Quick Wall Charger (Provided by Intertek)	Model: G5-W30A0936 Input: 100-240Vac 50/60Hz 0.5A Output: 5Vdc 3A, 9Vdc 3A, 12Vdc 2.5A

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/cm²)	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: Pass

H-Field Strength at 20 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)
0.112-0.205	1% Battery Level	0.01	0.01	0.01	0.02	0.01	1.63
0.112-0.205	50% Battery Level	0.01	0.01	0.01	0.02	0.01	1.63
0.112-0.205	99% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.112-0.205	Stand-by	0.01	0.01	0.01	0.01	0.01	1.63

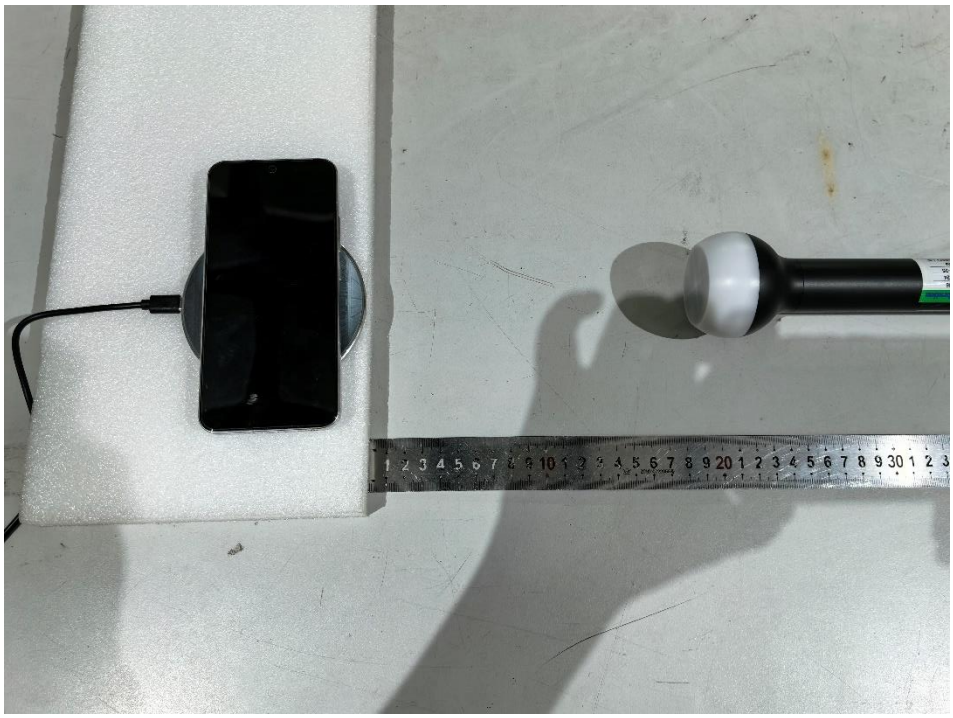
E-Field Strength at 20 cm surrounding the EUT

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)
0.112-0.205	1% Battery Level	1.25	0.97	1.16	1.25	0.88	614
0.112-0.205	50% Battery Level	1.23	0.86	1.12	1.16	0.76	614
0.112-0.205	99% Battery Level	1.16	0.75	1.03	1.06	0.71	614
0.112-0.205	Stand-by	1.12	0.73	1.01	1.02	0.69	614

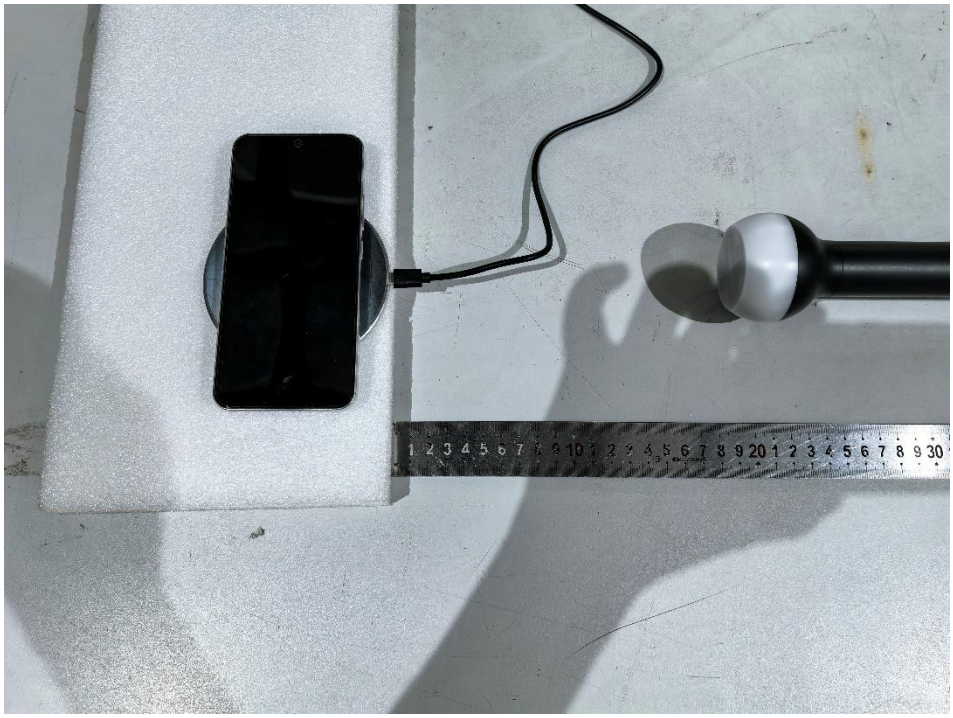
Configuration photo of the test:

H-Field & E-Field Strength test photos

Front

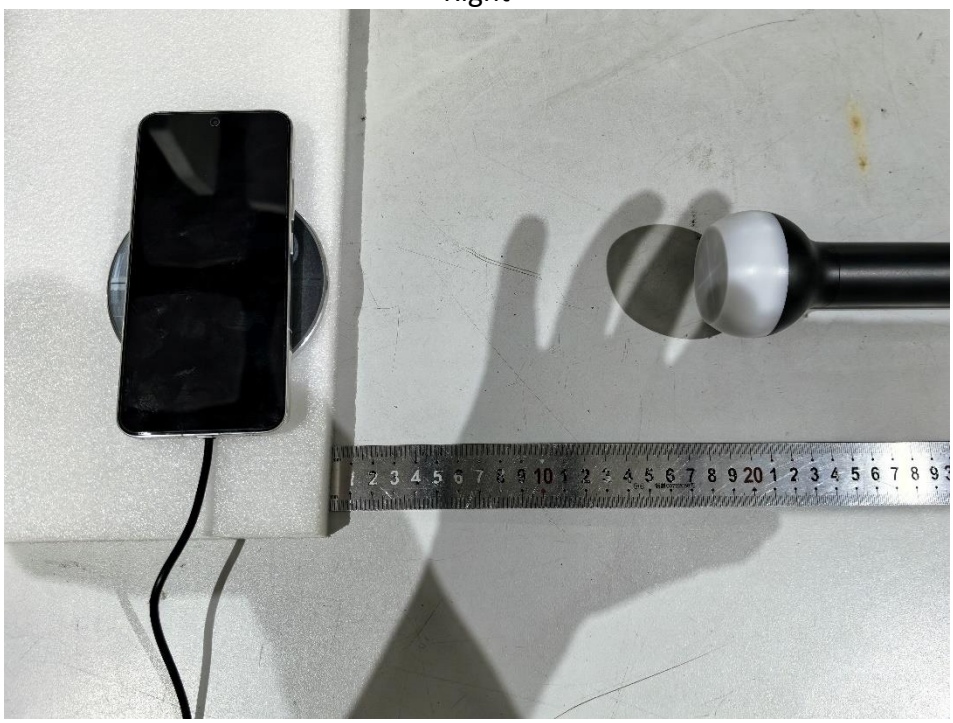


Rear

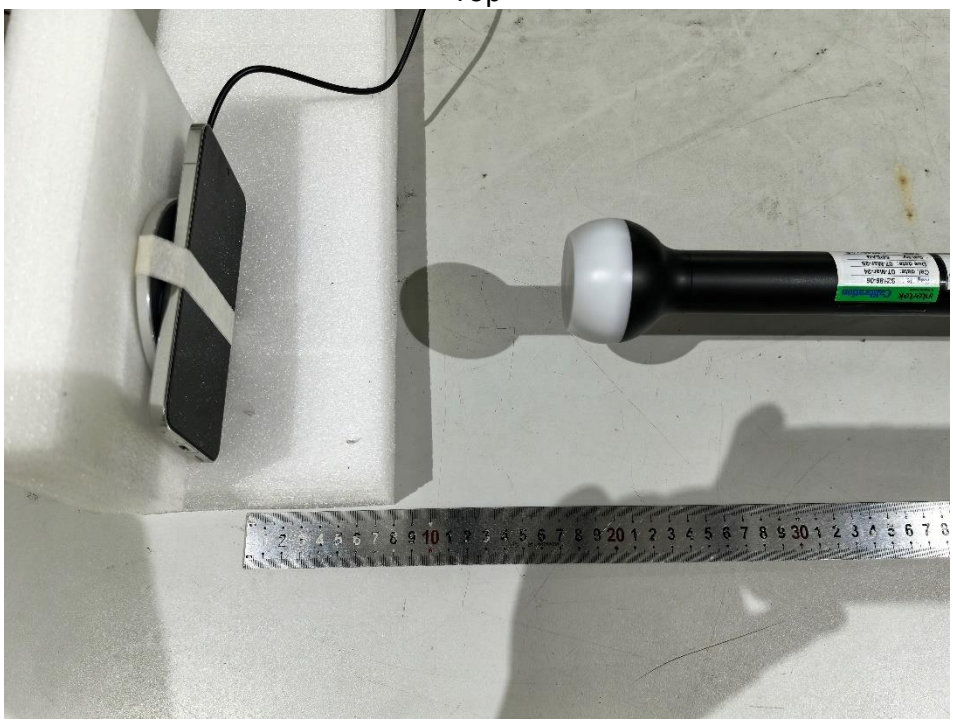


Left

Right



Top



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