RF EXPOSURE REPORT FOR CERTIFICATION On Behalf of

mophie LLC

mophie powerstation

Model Number: PS-STAND-MS-10K-A

FCC ID: 2ACWB-PSMS10K

Applicant:	mophie LLC			
Address:	6244 Technology Ave. Kalamazoo. MI49009 United States of America.			
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Report Number:	ESTE-R2205051
Date of Test:	Apr. 21~May. 07, 2022
Date of Report:	May. 09, 2022

EST Technology Co., Ltd

Report No. ESTE-R2205051

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Applicant: mophie LLC Address: 6244 Technology Ave. Kalamazoo. MI49009 United States of America. Manufacturer: mophie LLC Address: 6244 Technology Ave. Kalamazoo. MI49009 United States of America. E.U.T: mophie powerstation Model Number: PS-STAND-MS-10K-A Power Supply: Input (USB-C): 5V==3A, 9V==2AOutput (USB-C): 5V===3A, 9V===2.22A, 12V===1.67A Output Magsafe: 15W Multil Output: 15W(Magsafe), 5V===2A (USB-C) Battery: 3.7V 10000mAh 3.7Wh Trade Name: mophie Serial No.: Date of Receipt: Apr. 21, 2022 Date of Test: Apr. 21~May. 07, 2022 FCC CFR 47 Part 1.1307(b)&1.1310 **Test Specification:** KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC CFR 47 Part 1.1307(b)&1.1310 requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: May. 09, 2022 Prepared by: Reviewed by: Approved by Ring Yang / Assistant Seven Wang / Engineer Iceman Hu / Manager Other Aspects: None. Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. SUMMARY OF TEST

1.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Maximum Permissible Exposure	Part 1.1307(b)&1.1310	PASS

1.2. Test Mode

Test Item	Test Mode			
	Wireless Charging with Empty Load			
Maximum Permissible Exposure	Wireless Charging with Half Load			
	Wireless Charging with Full Load			
Note: 1:The worst Full Load statu	s is recorded in the report.			
2: internal battery power mode and AC power mode all have beer				
tested ,only worse case is reported.				

1.3. Test

Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Electric and Magnetic Field Probe-Analyzer	Narda S.T.S./PMM	EHP-200A	EST-E106	June 13,21	1 Year
mobile phone	Apple	A2634	N/A	N/A	N/A
Test Software	Narda	EHP200-TS	Rel 1.92	N/A	N/A

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1. Limit

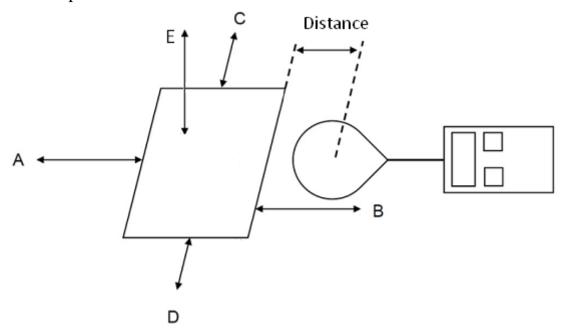
Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)				
	(A) Limits for Occupational/Controlled Exposure							
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				
300-1,500			f/300	6				
1,500-100,000			5	6				
	(B) Limits for Gene	eral Population/Unc	controlled Exposure	e				
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				
300-1,500			f/1500	30				
1,500-100,000			1.0	30				

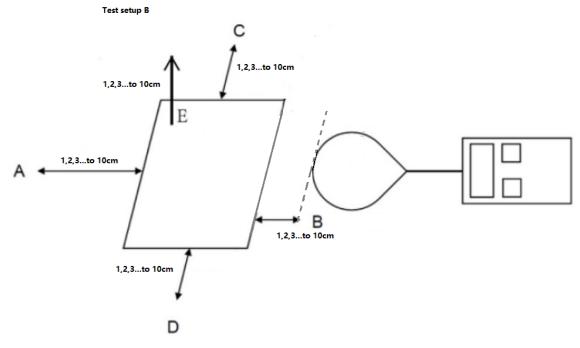
Note:

- 1. f = frequency in MHz * = Plane-wave equivalent power density.
- 2. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2. Test Setup A



2.3. Test Setup B



2.4. Test Procedure

- a. The test was performed on 360 degree turn table in anechoic chamber.
- b. The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe, for test setup A.
- c. Measure magnetic and electrical field strength at a distance 10cm to 1cm at 1cm iteration, Which is between the edge of the charger and the edge of of probe, for test setup B.
- d. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.
- e. The EUT was measured according to the dictates of KDB680106D01v03r01; TCB Workshop, October 2018, 5.2 RF Exposure Procedures.

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2.5. Equipment Approval Considerations

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance.

1	Power transfer frequency is less that 1 MHz
	YES; the device operated in the frequency range from 110.5-205KHz.
2	Output power from each primary coil is less than or equal to 15 watts.
	YES; the maximum output power of the primary coil is 15W.
	The transfer system includes only single primary and secondary coils. This includes
3	charging systems that may have multiple primary coils and clients that are able to
	detect and allow coupling only between individual pairs of coils.
	YES; the transfer system includes only single primary and secondary coils.
4	Client device is placed directly in contact with the transmitter.
	YES; Client device is placed directly in contact with the transmitter.
5	Mobile exposure conditions only (portable exposure conditions are not covered by
3	this exclusion).
	No.
	The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the
6	top surface from all simultaneous transmitting coils are demonstrated to be less than
	50% of the MPE limit.
	YES; The EUT field strength levels are 50% x MPE limts.

2.6. Test Result for Test setup A:

H-field strength						
Frequency range (KHz)	110.5 to 205					
Test Mode	Full Load Half Load Empty Load					
Position A(A/m)	0.041					
Position B(A/m)	0.040					
Position C(A/m)	0.043					
Position D(A/m)		0.041				
Position E(A/m)	0.046					
Limits (A/m)	1.630					
50% Limits (A/m)		0.815				

E-field strength						
Frequency range (KHz)	110.5 to 205					
Test Mode	Full Load Half Load Empty Load					
Position A(V/m)	3.32					
Position B(V/m)	2.41					
Position C(V/m)	2.95					
Position D(V/m)	3.01					
Position E(V/m)	4.21					
Limits (V/m)	614					
50% Limits(V/m)	307					

2.7. Test Result for Test setup B:

H-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (A/m)

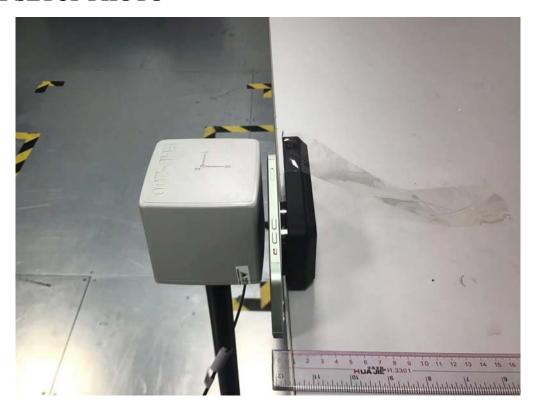
Test distance (cm)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Limits (A/m)
1	0.140	0.043	0.057	0.067	0.268	1.630
2	0.120	0.041	0.051	0.066	0.244	1.630
3	0.115	0.040	0.050	0.059	0.200	1.630
4	0.077	0.040	0.048	0.058	0.150	1.630
5	0.051	0.038	0.047	0.056	0.148	1.630
6	0.044	0.037	0.046	0.050	0.122	1.630
7	0.041	0.036	0.045	0.048	0.110	1.630
8	0.038	0.035	0.044	0.047	0.087	1.630
9	0.038	0.035	0.043	0.046	0.065	1.630
10	0.037	0.034	0.042	0.044	0.044	1.630

E-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (V/m)

Test distance (cm)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Limits (V/m)
1	35.11	30.33	37.44	38.42	56.41	614
2	29.21	27.24	31.65	33.12	47.40	614
3	19.87	17.10	21.41	28.33	34.15	614
4	12.75	10.31	13.01	14.14	20.11	614
5	7.57	6.40	8.11	8.51	11.10	614
6	6.68	5.22	7.28	7.14	8.22	614
7	5.24	4.24	5.48	5.51	6.10	614
8	4.44	3.51	4.85	5.14	5.32	614
9	3.57	2.74	4.15	4.12	4.51	614
10	3.11	2.14	2.54	3.14	4.15	614

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3. TEST SETUP PHOTO



End of Test Report