

### **FCC 47 CFR MPE REPORT**

### mophie LLC

mophie Wireless Charging Car Vent Mount

Model Number: QI2-CAR-VNT-A

FCC ID: 2ACWB-VNTMA

Applicant:	mophie LLC		
Address:	6244 Technology Ave.Kalamazoo.MI49009, USA		
Prepared By:	EST Technology Co., Ltd.		
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong China		
	Tel: 86-769-83081888-808		

Report Number:	ESTE-R2408039
Date of Test:	Aug. 07, 2024~Aug. 12, 2024
Date of Report:	Aug. 14, 2024



Applicant: Address:	mophie LLC 6244 Technology Ave.Kalamazoo.MI49009, USA			
Manufacturer: Address:	mophie LLC 6244 Technology Ave.I	mophie LLC 6244 Technology Ave.Kalamazoo.MI49009, USA		
E.U.T:	mophie Wireless Charg	ging Car Vent M	ount	
Model Number:	QI2-CAR-VNT-A	9		
Power Supply:	Input (Type-C): 9V===2 Output: 15W	2.22A		
Trade Name:	mophie	Serial No.:		
Date of Receipt:	Aug. 07, 2024 Date of Test: Aug. 07, 2024~ Aug. 12, 202			
Test Specification:	FCC CFR 47 Part 1.1307(b)&1.1310  KDB 680106 D01 RF Exposure Wireless Charging Apps v04r01			
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.			
Prepared by:	Reviewed by:  Approved by:  Ap			

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

No.	Description of Test Item	FCC Standard Section	Results
1	Maximum Permissible Exposure	Part 1.1307(b)&1.1310	PASS

### 1.2. Test Mode

Test Item	Test Mode			
Maximum Permissible Exposure		Full load		
	Output: 7.5W/ 15W	Half load		
Lxposure		No load		
Note: The worst Full Load status is recorded in the report				

### 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 13,24	1 Year
Test Software	Narda	EHP200-T S	Rel 1.92	N/A	N/A
Note: Test uncertainty: ±1.62 dB (H-field):±1.64 dB (E-field) at a level of confidence of 95%.					

### 1.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
Α	Load	-	CPS4041_MPP_RX_V1.0.1	-	-
В	Cigarette lighter	-	V1	-	-
С	Car charger	UNISYNK	10436	-	-
D	battery	•	6-QW-60(450)		

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.4m	DC Cable RCA248



### 2. Maximum Permissible Exposure

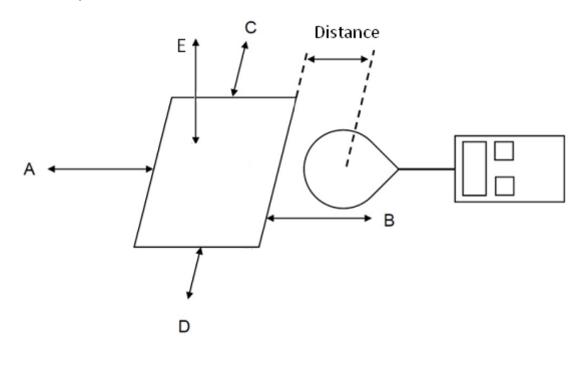
### 2.1. Limit

### **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 O	ccupational/Cont	rolled Exposure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	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 General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

Note:f = frequency in MHz \* = Plane-wave equivalent power density.

## 2.2. Test Setup





#### 2.3. Test Procedure

- a. The test was performed on 360 degree turn table in anechoic chamber.
- b. The probe was placed at 20 cm surrounding, for test setup.
- c. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.

#### 2.4. 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.

	Power transfer frequency is less than 4 MHz
1	YES; the device operated in the frequency range from 110.5KHz-205KHz,
	360KHz
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 system may consist of more than one source primary coils, charging
3	one or more clients. If more than one primary coil is present, the coil pairs
3	may be powered on at the same time.
	YES; The EUT has three source primary coils
4	Client device is placed directly in contact with the transmitter.
4	YES; Client device is placed directly in contact with the transmitter.
	Mobile exposure conditions only (portable exposure conditions are not
5	covered by this exclusion).
	YES; Mobile exposure conditions only.
	The aggregate H-field strengths anywhere at or beyond 20 cm surrounding the
	device, and 20 cm away from the surface from all coils that by design can
6	simultaneously transmit, and while those coils are simultaneously energized, are
	demonstrated to be less than 50% of the applicable MPE limit.
	YES; The EUT field strength levels are 50% x MPE limts.

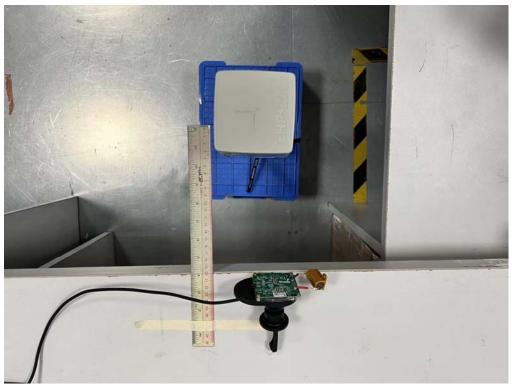


## 2.5. Test Result for Test setup:

	E-fi	eld strength	
Test Direction	Maran in Distance	Test Fre	equency
rest Direction	Measuring Distance	128.0 kHz	360.0 kHz
Position A(V/m)	20cm	1.104	1.238
Position B(V/m)	20cm	1.254	1.615
Position C(V/m)	20cm	1.241	1.349
Position D(V/m)	20cm	1.145	1.278
Position E(V/m)	20cm	1.114	1.039
Limits (V/m)		614	
	H-fi	eld strength	
Test Direction	Managering Diotonoo	Test Frequency	
rest Direction	Measuring Distance	128.0 kHz	360.0 kHz
Position A(A/m)	20cm	0.041	0.051
Position B(A/m)	20cm	0.039	0.039
Position C(A/m)	20cm	0.043	0.049
Position D(A/m)	20cm	0.041	0.045
Position E(A/m)	20cm	0.039	0.047
Lim	its (A/m)	1.6	30

# 3. Test photo

Position E



**End of Test Report**