

TEST REPORT

Reference No...... : WTD25D02042370W002
FCC ID : 2BHP6-MCW31
Applicant..... : SM TEK GROUP INC
Address..... : 132 32ND ST STE #402 BROOKLYN NY 11232 United States
Manufacturer : SM TEK GROUP INC
Address : 132 32ND ST STE #402 BROOKLYN NY 11232 United States
Product..... : Car charger
Model(s) : WM-MCW31-BK, WM-MCW31-WH, MCW31-BK, MCW31-WH
Standards..... : 47CFR Part 1.1307
47CFR Part 1.1310
Date of Receipt sample : 2025-06-06
Date of Test : 2025-06-12 to 2025-06-25
Date of Issue..... : 2025-06-26
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D02042370W002	2025-06-06	2025-06-12 to 2025-06-25	2025-06-26	Original	-	Valid

4 General Information

4.1 General Description of E.U.T

Product:	Car charger
Model(s):	WM-MCW31-BK, WM-MCW31-WH, MCW31-BK, MCW31-WH
Model Description:	Only the model names are different. Model WM-MCW31-BK was tested in the report.
Test Sample No.:	1-1/1
Type of Modulation:	Load modulation
Frequency Range:	115-325kHz
Antenna installation:	Inductive loop coil Antenna
Hardware Version:	iWatch: ZWX001-AWCH-V1.2 Phone: D1_IP6802B-Qi2.0-V1.0 Earbuds: 3-1 wireless car Charger-QI2-WX-V1.1 20250416
Software Version:	iWatch: SOP16-ZWX001-XJNNT Phone: IP6802B_MPP_MCW31_V2_2_YETTT Earbuds: SOP16-IP6821-5-Y115 -YDPJM

4.2 Details of accessories

Ratings:	Input: DC 9V/12V 3A (MAX) Output 1: Phone 15W(MAX) Output 2: iWatch 2.5W(MAX) Output 3: Earbuds 3.5W(MAX)
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4.3 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

Yes No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.4 Abnormalities from Standard Conditions

None.

4.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.6 Test Mode

Test Mode	Descriptions
Standby mode	EUT alone powered by AC/DC adapter
iWatch charge	iWatch only (The battery capacity is less than 5%)
AirPods charge	AirPods only (The battery capacity is less than 5%)
iPhone charge	iPhone only (The battery capacity is less than 5%)
3 in 1 charge	iWatch+ AirPods+ iPhone charge together (The battery capacity is less than 5%)

Note: EUT was investigated with client device under normal charging condition as above then worst value was only report.

5 Test Summary

Test Items	Test Requirement	Result
Electric Field Strength (E) (V/m)	FCC CFR 47 part1§1.1310	PASS
Magnetic Field Strength (H) (A/m)	KDB 680106 D01 v04	PASS

Note: /

6 Equipment Used during Test

6.1 Equipments List

RF EXPOSURE						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Valid
1	Electric and magnetic field analyzer	Narda	EHP-200AC	180ZX10226	2025-03-07	1Year

6.2 Description of Auxiliary Equipment

Equipment	Manufacturer	Model No.	Series No.
iPhone	Apple	MQ8T2LL/A	/
iWatch	Apple	A1758	/
Wireless Charging Case	Apple	A2083	/

6.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R. China.

7 RF Exposure

7.1 EUT Operation

Operating Environment:

Temperature: 22.0 °C

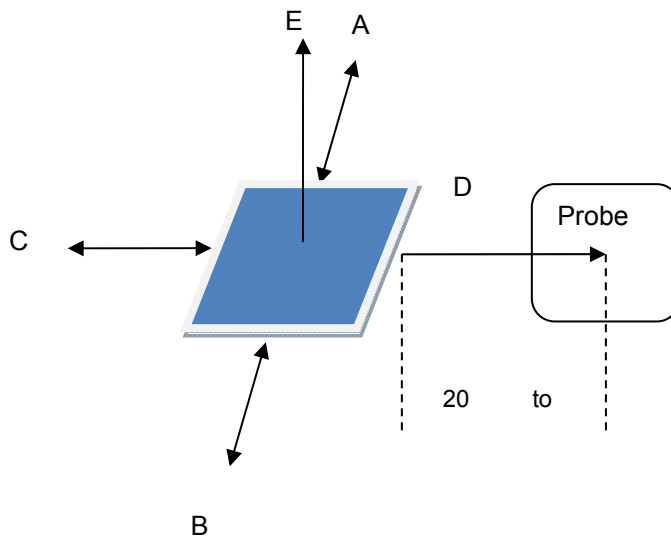
Humidity: 55.3 % RH

Atmospheric Pressure: 101.0kPa

EUT Operation: Refer to section 4.6.

Only the worst-case transmitting mode was record in the report.

7.2 Test Setup



The RF exposure test was performed in anechoic chamber.

The probe was placed at test distance (20 to 24cm) which is between the edge of the charger and the geometric centre of probe.

The EUT was put in different directions (Left, Right, Front, Rear, and Top) to obtain the maximum reading.

The EUT was measured according to the dictates of KDB 680106 D01 v04.

7.3 Equipment approval considerations (clause 5.2) of KDB 680106 D01 v04

(1) Power transfer frequency is less than 1 MHz.

Yes, the device operate in the frequency range is 110kHz to 325kHz.

(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

Yes, the maximum output power of the coil is 15W.

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

Yes, the client device is in direct contact with the transmitter.

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

Yes, this device belongs to mobile device.

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

This device meets the above requirements. Please refer to the test results in clause 7.5. Test result.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

This device meets the above requirements. Please refer to clause 4.6. Test mode.

7.4 FCC Rules

§1.1310: The criteria listed in the following table 1 shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to § 1.1310(e)(1)—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) 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
(ii) 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 ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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

Note:

RF exposure compliance will need to be determined with respect to 1.1307(C) and (d) of the FCC rules.

7.5 Test Result

Maximum RF exposure reading and percentage

Electric Field Limit			Magnetic Field Limit		
FCC	Maximum RMS (V/m)	Percentage (%)	FCC	Maximum RMS (A/m)	Percentage (%)
614	16.60	2.70	1.63	0.462	28.34

E-Field Strength

Position	Test distance (cm)			Maximum (A/m)
	20	22	24	
A	0.462	0.084	0.107	0.462
B	0.103	0.120	0.355	
C	0.095	0.096	0.203	
D	0.100	0.095	0.264	
E	0.097	0.105	0.345	

H-Field Strength

Position	Test distance (cm)			Maximum (V/m)
	20	22	24	
A	16.60	12.92	11.03	16.60
B	11.08	11.26	11.44	
C	11.50	11.26	11.40	
D	11.36	11.03	12.62	
E	16.56	13.98	10.69	

Conclusion:

RF Exposure is FCC compliant.

8 Photographs of test setup

Note: Please refer to appendix: Appendix-WM-MCW31-BK-Photos.

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