

## RF Exposure Evaluation Declaration

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**FCC ID:** 2A3NJ-Z10W06

**Applicant:** Sagittech Technology Co., Ltd.

**Product:** Qi Wireless Car Charger

**Model No.:** Z10W06

**Brand Name:** Tunai creative

**FCC Classification:** Part 15 Low Power Transmitter Below 1705 kHz (DCD)

**FCC Rule Part(s):** FCC Part 2.1091

**Test Date:** November 27, 2021

**Reviewed By:** Vincent Yu  
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Vincent Yu



**Approved By:** Robin Wu  
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Robin Wu

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

### Revision History

Report No.	Version	Description	Issue Date	Note
2111RSU062-U1	Rev. 01	Initial Report	11-29-2021	

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## 1. General Information

## 1.1. Applicant

Sagittech Technology Co., Ltd.

3F., No. 30, Sec. 1, Chongqing N. Rd. Datong Dist., Taipei City, Taiwan (R.O.C.)

## 1.2. Manufacturer

Dongguan Qilian Electronics Co., Ltd.

No. 2, Zhongxing Road, Tianxin Second Industrial Zone, Qiaotou Town, Dongguan City, Guangdong Province

### 1.3. Testing Facility

<input checked="" type="checkbox"/>	<b>Test Site – MRT Suzhou Laboratory</b>
	<b>Laboratory Location (Suzhou - Wuzhong)</b>
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	<b>Laboratory Location (Suzhou - SIP)</b>
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	<b>Laboratory Accreditations</b>
A2LA: 3628.01	
FCC: CN1166	
VCCI:	
<input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104	
<input type="checkbox"/>	<b>Test Site – MRT Shenzhen Laboratory</b>
<b>Laboratory Location (Shenzhen)</b>	
1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China	
<b>Laboratory Accreditations</b>	
A2LA: 3628.02	
FCC: CN1284	
<input type="checkbox"/>	<b>Test Site – MRT Taiwan Laboratory</b>
<b>Laboratory Location (Taiwan)</b>	
No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
<b>Laboratory Accreditations</b>	
TAF: L3261-190725	
FCC: 291082, TW3261	
ISED: TW3261	

#### 1.4. Product Information

Product Name	Qi Wireless Car Charger
Model No.	Z10W06
Brand Name	Tunai creative
EUT Identification No.	20211116Sample#05
Working Frequency	110kHz-205kHz
Working Temperature Range	0 ~ 45°C
Modulation Type	ASK
Input	5V/2A, 9V/1.67A, 12V/2A
Output	5W, 7.5W, 10W, 15W MAX
Remark:	The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

#### 1.5. Test Mode

Test Mode
Mode 1: Charging for Wireless Charger Receiver
Mode 2: Standby

#### 1.6. Test System Details

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model Name
15W Wireless Charger Receiver	YBZ	SLY-YBZ-068
PD3.0 WALL CHARGER	PowerRider	PD652CA

Note:

1. The Wireless Charger Receiver is provided by the lab, and it can control the EUT to be at the maximum output power 15W.
2. The PD3.0 WALL CHARGER is provided by the lab.

#### 1.7. Test Environment Condition

Ambient Temperature	15°C ~ 35°C
Relative Humidity	20%RH ~ 75%RH

## 2. List of Measuring Instrument

No.	Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date
1	Exposure Level Tester	narda	ELT-400	MRTSUE06920	3 years	2023/11/29
2	Broadband EM Field Meter	ar	SM40G	MRTSUE06358	3 years	2024/05/05
3	E-field sensor head	ar	SHE100K6z5G	MRTSUE06444	3 years	2024/05/05
4	Probe	narda	B-Field	MRTSUE06919	3 years	2024/02/14
5	Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2022/06/28

### 3. RF Exposure Evaluation

#### 3.1. Test Limit

##### §1.1310 Radio frequency radiation exposure limits.

Below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
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 - 1500	--	--	f/300	< 6
1500 - 100000	--	--	5	< 6
(B) Limits for General Population/ Uncontrolled Exposures				
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 - 1500	--	--	f/1500	< 30
1500 - 100000	--	--	1.0	< 30

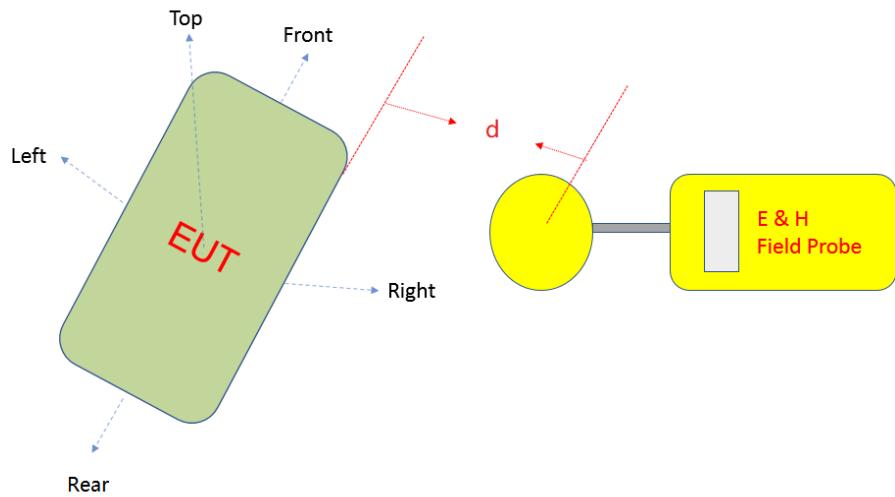
f = frequency in MHz.

\* = Plane-wave equivalent power density.

**Equipment Approval Considerations in KDB 680106 D01v03r01**

Equipment Approval Considerations	Comply
1) Power transfer frequency is less than 1MHz.	Yes. Wireless operating frequency: 110 ~ 205 kHz
2) Output power from each primary coil is less than or equal to 15 watts.	Yes. Wireless maximum output power: 15W.
3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes. The system consists of only one source primary coils.
4) Client device is placed directly in contact with the transmitter.	Yes. Placed directly.
5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes. Mobile exposure conditions only.
6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes. Refer to clause 3.3 of this report.

### 3.2. Test Setup



Note:

1. This shall be measured as the distance from the edge of the device to the center of the measurement probe.
2. d is the test distance at cm. Detailed information refers to clause 3.3 of this report.

### 3.3. Test Result

Test Site	WZ-SR5	Test Engineer	Bruce Wang
Test Date	2021/11/27	Test Mode	Mode 1

Electric Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Front	15	2.27	614	307	Pass
Rear	15	2.42	614	307	Pass
Left	15	1.85	614	307	Pass
Right	15	2.30	614	307	Pass
Top	20	2.30	614	307	Pass

Magnetic Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Front	15	0.229	1.63	0.815	Pass
Rear	15	0.219	1.63	0.815	Pass
Left	15	0.222	1.63	0.815	Pass
Right	15	0.223	1.63	0.815	Pass
Top	20	0.225	1.63	0.815	Pass

Test Site	WZ-SR5	Test Engineer	Bruce Wang
Test Date	2021/11/27	Test Mode	Mode 2

Electric Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Front	15	0.32	614	307	Pass
Rear	15	0.36	614	307	Pass
Left	15	0.23	614	307	Pass
Right	15	0.29	614	307	Pass
Top	20	0.40	614	307	Pass
Magnetic Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Front	15	0.211	1.63	0.815	Pass
Rear	15	0.212	1.63	0.815	Pass
Left	15	0.210	1.63	0.815	Pass
Right	15	0.210	1.63	0.815	Pass
Top	20	0.217	1.63	0.815	Pass

## Appendix A – EUT Photograph

Refer to “2111RSU062-UE” file.

## Appendix B – Test Setup Photograph

Refer to “2111RSU062-UT” file.

————— The End —————