

FCC RF EXPOSURE REPORT

For

MODULE-WIRELESS CHARGING

MODEL NUMBER: 8891918209, 6608017285, 6608080616

REPORT NUMBER: E01A23080360F00201

ISSUE DATE: August 17, 2023

Prepared for

**Changzhou Tenglong Auto Parts Co.,Ltd.
No.15, Tenglong Road, Economic Development Zone, Wujin District, Changzhou,
Jiangsu province, China**

Prepared by

**Guangdong Global Testing Technology Co., Ltd.
Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	August 17, 2023	Initial Issue	---

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Changzhou Tenglong Auto Parts Co.,Ltd.
Address: No.15, Tenglong Road, Economic Development Zone, Wujin District, Changzhou, Jiangsu province, China

Manufacturer Information

Company Name: Changzhou Tenglong Auto Parts Co.,Ltd.
Address: No.15, Tenglong Road, Economic Development Zone, Wujin District, Changzhou, Jiangsu province, China

EUT Description

EUT Name: MODULE-WIRELESS CHARGING
Model: 8891918209
Series Model: 6608017285, 6608080616
Model difference: Only the model name is different.
Brand Name:



Sample Received Date: August 14, 2023
Sample ID: A23080360 001
Sample Status: Normal
Date of Tested: August 14, 2023 to August 17, 2023

APPLICABLE STANDARDS

STANDARD	TEST RESULTS
FCC 47CFR§1.1307	Pass
FCC 47CFR§1.1310	Pass
FCC 47CFR§2.1091	Pass

Prepared By:

A handwritten signature in black ink, appearing to read 'Luke Li'.

Luke Li
Project Engineer

Checked By:

A handwritten signature in black ink, appearing to read 'Dyson Dai'.

Dyson Dai
Project Engineer

Approved By:

A handwritten signature in black ink, appearing to read 'Tiger Xu'.

Tiger Xu
Laboratory Supervisor

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC 47CFR§1.1307(b)(1), FCC 47CFR§1.1310, FCC 47CFR§2.1091, KDB680106 D01v03r01.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report Field with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
RF exposure test – H-Field	0.009 MHz ~ 30 MHz	2	1.2
RF exposure test – E-Field	0.009 MHz ~ 30 MHz	2	1.2

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. REQUIREMENT

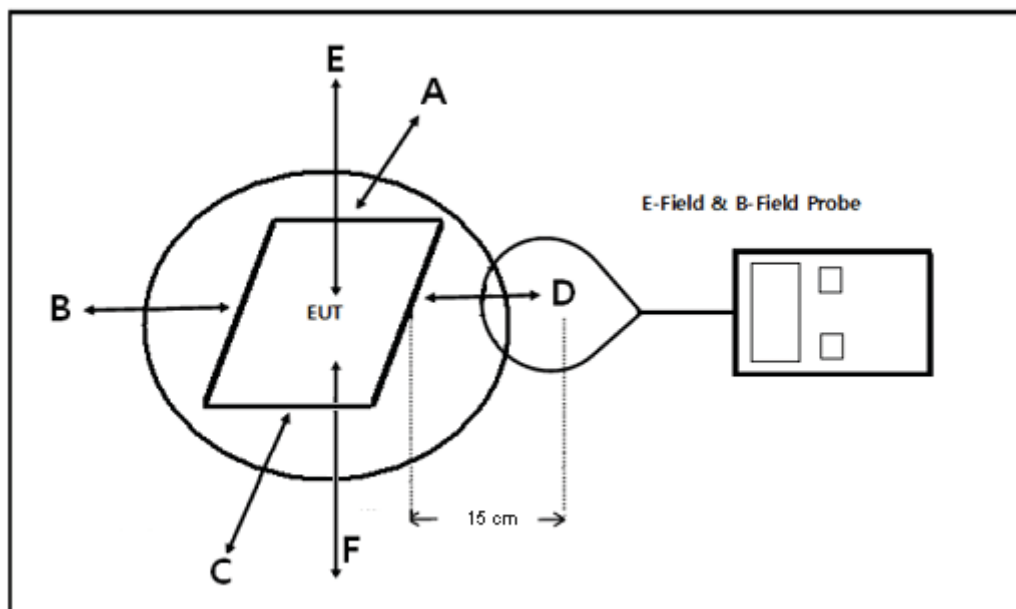
RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

METHOD OF MEASUREMENT

- The RF exposure test was performed in shielded chamber.
- The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe, and 20cm above the charger.
- The measurement probe used to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. As bottom point is not required to test for desktop devices, so we scanned all the surfaces and recorded the worst level in F.
- The EUT were measured according to the dictates of KDB 680106D01v03.

BLOCK DIAGRAM OF TEST SETUP



EQUIPMENT APPROVAL CONSIDERATIONS

The EUT does comply with KDB 680106D01v03.

1) Power transfer frequency is less than 1MHz.

Yes; the operation frequency for the device is 128 kHz.

2) Output power from each primary coil is less than or equal to 15 watts.

Yes; the maximum output power of each primary coil is 15 watts.

3) The transfer system includes only single primary and secondary coils. This includes 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 this exclusion).

Yes; The EUT is a mobile device.

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; The EUT's field strength levels are less than 50% of the MPE limit.

MEASURING INSTRUMENT USED

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Electric and Magnetic Field Analyzer	Narda	EHP-200A	Tr09201022	May 10, 2023	May 09, 2024

FIELD STRENGTH

Test mode for wireless charger:

Config	Test Mode	Description
Mode 1	Operating	DC 12V power input, turn on output, 15w load
Mode 2	Operating	DC 12V power input, turn on output, 10w load
Mode 3	Operating	DC 12V power input, turn on output, 5w load
Mode 4	Standby	DC 12V power input, turn on output, no load

Worst case mode: Mode 1

H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm above the top surface of the EUT (A/m)

Test Position	H-Field Strength Measure Result		Limits (A/m)
	Mode 2		
	A/m		
A	0.38		1.63
B	0.61		1.63
C	0.17		1.63
D	0.39		1.63
E	0.68		1.63
F	0.39		1.63

E-Field Strength at 15 cm from the edges surrounding the EUT (V/m)

Test Position	E-Field Strength Measure Result		Limits (V/m)
	Mode 3		
	V/m		
A	1.01		614
B	1.06		614
C	0.61		614
D	0.65		614
E	1.79		614
F	0.69		614

Note 1: Detector: Peak

Note 1: All the modes had been tested, but only the worst data recorded in the report.

APENDIX: PHOTOGRAPHS OF TEST CONFIGURATION



END OF REPORT