FCC RF EXPOSURE

CERTIFICATION TEST REPORT

For

Car Wireless Charger

MODEL NUMBER: CHG-WIRELESS 3.0

FCC ID: 2AEQT-KEAG66CHX

REPORT NUMBER: 4790338311.2-2

ISSUE DATE: April 20, 2022

Prepared for

Huizhou Desay SV Automotive Co., Ltd.
NO.103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	04/20/2022	Initial Issue	

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Huizhou Desay SV Automotive Co., Ltd.
Address:	NO.103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

Manufacturer Information

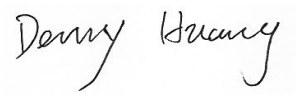
Company Name:	Huizhou Desay SV Automotive Co., Ltd.
Address:	NO.103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

EUT Information

EUT Name:	Car Wireless Charger
Model:	CHG-WIRELESS 3.0
Brand:	DESAY SV
Sample Received Date:	April 1, 2022
Sample Status:	Normal
Sample ID:	4822219
Date of Tested:	April 8, 2022 ~ April 20, 2022

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47CFR§1.1307	PASS
FCC 47CFR§1.1310	PASS
FCC 47CFR§2.1093	PASS
FCC 47CFR§2.1091	PASS

Prepared By:



Denny Huang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager

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§2.1093, KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

4. DESCRIPTION OF EUT

EUT Name	Car Wireless Charger	
Model	CHG-WIRELESS 3.0	
Product Description	Operation Frequency	125.95 kHz and127.7 kHz
Rated Output Power	15 W	
Antenna type	Coil	
Ratings	DC 12 V	

Note 1: The EUT have 3 coils, but only 1 coil was active at the same time, all the coils and circuit before antenna are the same.
Note 2: Because of the limited of the circuit, the 3 coils can't be active at the same time.
Note 3: All the 3 coils were tested, but only the worst data was recorded in the report.

5. REQUIREMENT

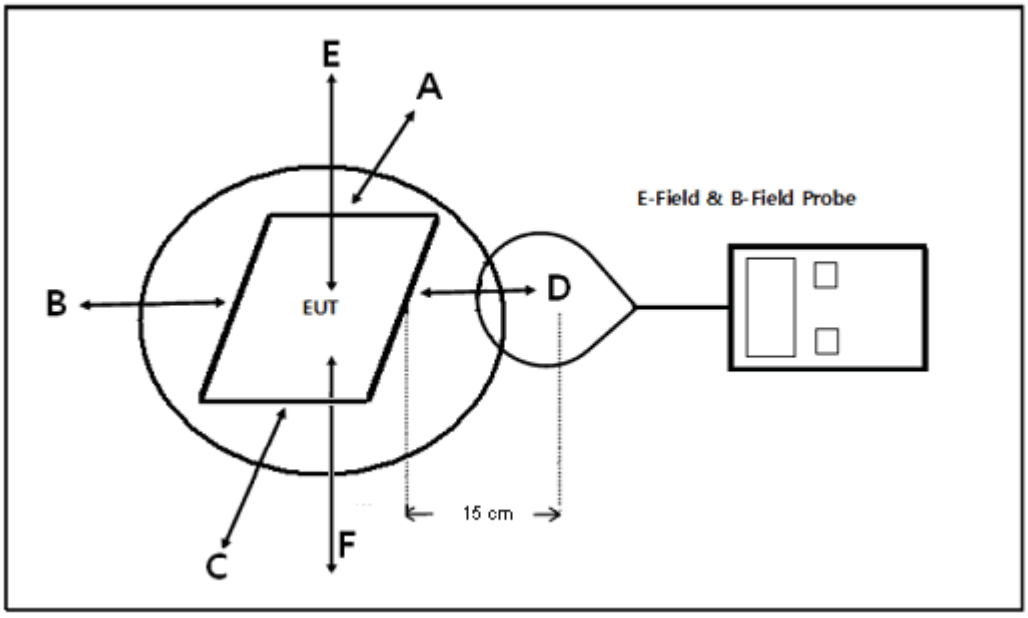
LIMIT

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

a) The RF exposure test was performed in shielded chamber.
b) The geometric centre of probe was placed at 15 cm test distance surrounding the device and 15 cm above the top surface.
c) The measurement probe used to search of highest strength.
d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
e) The EUT were measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

BLOCK DIAGRAM OF TEST SETUP



Note: As bottom point is not required to test for desktop devices, so we scanning all the surfaces and recorded the worst level in F.

EQUIPMENT APPROVAL CONSIDERATIONS

The EUT comply with 680106 D01 RF Exposure Wireless Charging App v03r01.

1) Power transfer frequency is less than 1 MHz.
Yes; the device operated in the frequency is 125.95 kHz and127.7 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 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.
The transmitter has three coils, but only 1 coil was active at the time, all the coils and circuit before antenna are the same.

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 bigger 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	170WX90204	May 26, 2021	May 26, 2022

E FIELD AND H FIELD STRENGTH TEST RESULT

Test Mode	Description
Mode 1	Charging with mobile phone (Full Load)
Mode 2	Charging with mobile phone (Half Load)
Mode 3	Charging with mobile phone (No Load)

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

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

Test Position	H-Filed Strength Measure Result	Limits (A/m)
	Mode 1	
	A/m	
A	0.2015	1.63
B	0.0613	1.63
C	0.2122	1.63
D	0.0685	1.63
E	0.1974	1.63
F	0.2245	1.63

E-Filed Strength at 15 cm from the edges surrounding the EUT and 15 cm above the top surface of the EUT (V/m)

Test Position	E-Filed Strength Measure Result	Limits (V/m)
	Mode 1	
	V/m	
A	0.4652	614
B	0.3346	614
C	0.4577	614
D	0.3761	614
E	0.5633	614
F	0.4988	614

END OF REPORT