

**FCC RF EXPOSURE**  
**CERTIFICATION TEST REPORT**

*For*

**Car Wireless Charger**

**MODEL NUMBER: CHG-WIRELESS 5.0**

**REPORT NUMBER: 4791557282-RF-6**

**ISSUE DATE: December 16, 2024**

**FCC ID: 2AEQT-KLBC66CH0**

*Prepared for*

**Huizhou Desay SV Automotive Co., Ltd.**  
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*Prepared by*

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## Revision History

| Rev. | Issue Date           | Revisions     | Revised By |
|------|----------------------|---------------|------------|
| V0   | December 16,<br>2024 | Initial Issue |            |

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## 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

### Factory 1 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

### Factory 2 Information

Company Name: PT. SAT NUSAPERSADA Tbk  
Address: Jl Pelita VI No. 99 Batam 29443 KEPRI - INDONESIA

### EUT Information

EUT Name: Car Wireless Charger  
Model: CHG-WIRELESS 5.0  
Brand: DESAY SV  
Sample Received Date: November 15, 2024  
Sample Status: Normal  
Sample ID: 7913847  
Date of Tested: November 15, 2024 to December 13, 2024

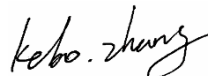
| APPLICABLE STANDARDS |              |
|----------------------|--------------|
| STANDARD             | TEST RESULTS |
| FCC 47CFR§1.1307     | PASS         |
| FCC 47CFR§1.1310     | PASS         |
| FCC 47CFR§2.1091     | PASS         |

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC 47CFR§2.1091, FCC 47CFR§1.1307, FCC 47CFR§1.1310, KDB 680106 D01 Wireless Power Transfer v04.

## 3. FACILITIES AND ACCREDITATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accreditation Certificate | <p><b>A2LA (Certificate No.: 4102.01)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b><br/>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.</p> <p><b>VCCI (Registration No.: G-20192, R-20202, C-20153 and T-20155)</b><br/>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.<br/>Facility Name:<br/>Chamber D, the VCCI registration No. is G-20192 and C-20153<br/>Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p> |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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 5.0     |                          |
| Product Description | Operation Frequency  | 125.95 kHz and 127.7 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 one 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

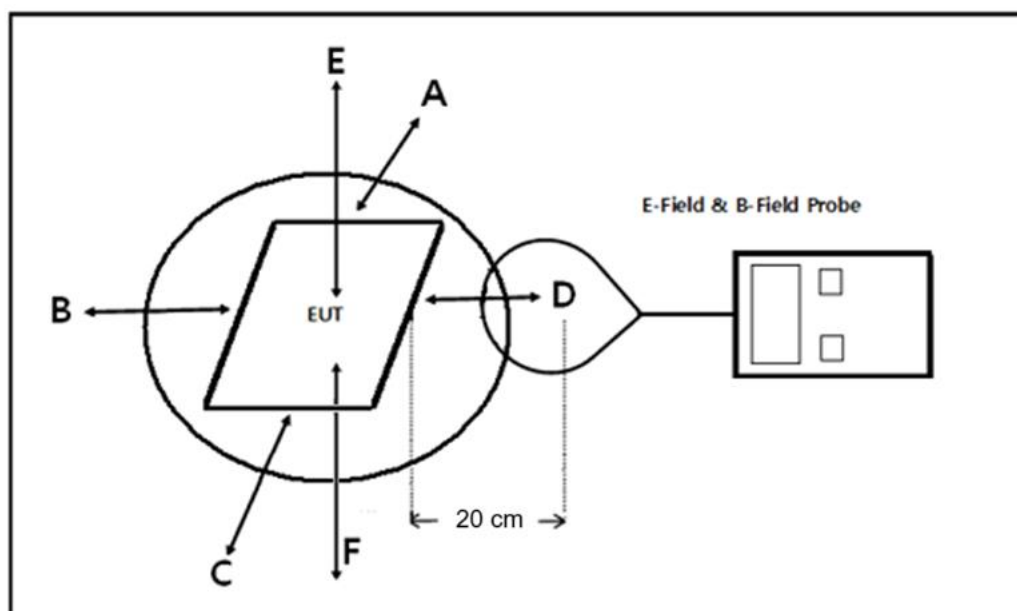
| Frequency Range (MHz) | E-field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (Minutes) |
|-----------------------|----------------------------|-----------------------------------|-----------------------------------------|-------------------------------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

The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

### METHOD OF MEASUREMENT

- The RF exposure test was performed in shielded chamber.
- The geometric centre of probe was placed at 20 cm of the device.
- 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.
- The EUT were measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

### 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.

### **MEASURING INSTRUMENT USED**

| Equipment                            | Manufacturer | Model No. | Serial No. | Last Cal.     | Due. Date     |
|--------------------------------------|--------------|-----------|------------|---------------|---------------|
| Electric and Magnetic Field Analyzer | Narda        | EHP-200A  | 170WX90204 | June 13, 2024 | June 12, 2025 |

### **E FIELD AND H FIELD STRENGTH TEST RESULT**

| Test Mode | Description                                               |
|-----------|-----------------------------------------------------------|
| Mode 1    | Charging with 15 W (1 % battery status of client device)  |
| Mode 2    | Charging with 15 W (50 % battery status of client device) |
| Mode 3    | Charging with 15 W (99 % battery status of client device) |

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

H-Filed Strength at 20 cm of the EUT (A/m)

| Test Position | H-Filed Strength Measure Result | Limits<br>(A/m) |
|---------------|---------------------------------|-----------------|
|               | Mode 1                          |                 |
|               | A/m                             |                 |
| A             | 0.086                           | 1.63            |
| B             | 0.131                           | 1.63            |
| C             | 0.174                           | 1.63            |
| D             | 0.106                           | 1.63            |
| E             | 0.232                           | 1.63            |
| F             | 0.067                           | 1.63            |

E-Filed Strength at 20 cm of the EUT (V/m)

| Test Position | E-Filed Strength Measure Result | Limits<br>(V/m) |
|---------------|---------------------------------|-----------------|
|               | Mode 1                          |                 |
|               | V/m                             |                 |
| A             | 0.417                           | 614             |
| B             | 0.408                           | 614             |
| C             | 0.411                           | 614             |
| D             | 0.401                           | 614             |
| E             | 0.437                           | 614             |
| F             | 0.409                           | 614             |



For NFC:

-Based on field strength 21.73 dBuV/m at 30m, so 61.73 dBuV/m at 3m transmit power(eirp) of the device was calculated.

$EIRP = 61.73 \text{ dBuV/m}@3\text{m} = (61.73 - 95.2) \text{ dBm} = -33.47 \text{ dBm} = 0.0004 \text{ mW} < 1\text{mW}$

Conducted power =  $(-33.47 - (-5.8)) \text{ dBm} = -27.67 \text{ dBm} = 0.0017 \text{ mW} < 1\text{mW}$

**Conclusion: No SAR is required.**

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**END OF REPORT**