



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



RF EXPOSURE EVALUATION REPORT

Applicant: Sichuan Weiyu Electric Co.,Ltd

Address: No.1, Tumenjiang Road (C2# Building, Tianyu Science & Technology Park),
Deyang, Sichuan, China

FCC ID: 2AZGWM3P140U2

Product Name: LEVEL 2 AC EV CHARGER

Standard(s): 47 CFR §1.1310 & §2.1091

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

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Title: Manager

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1.1 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.2 Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (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

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

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

1.3 Calculated Data:

Operation Modes	Frequency	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance	Power Density	MPE Limit
	(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mW/cm ²)	(mW/cm ²)
2.4G Wi-Fi	2412-2462	2.00	1.58	18	63.10	20	0.0198	1
5.2G Wi-Fi	5150-5250	2.00	1.58	16	39.81	20	0.0125	1
5.8G Wi-Fi	5725-5850	2.00	1.58	16	39.81	20	0.0125	1
BLE	2402-2480	1.50	1.41	8	6.31	20	0.0018	1
WCDMA B2	1850-1910	2.21	1.66	25	316.23	20	0.1047	1
WCDMA B4	1710-1755	2.78	1.9	25	316.23	20	0.1195	1
WCDMA B5	824-849	0.69	1.17	25	316.23	20	0.0736	0.549
LTE B2	1850-1910	2.21	1.66	25	316.23	20	0.1047	1
LTE B4	1710-1755	2.78	1.9	25	316.23	20	0.1195	1
LTE B5	824-849	0.69	1.17	25	316.23	20	0.0736	0.549
LTE B12	699-716	-1.10	0.78	25	316.23	20	0.0491	0.466
LTE B13	777-787	0.69	1.17	25	316.23	20	0.0736	0.518
LTE B14	788-798	0.69	1.17	25	316.23	20	0.0736	0.525
LTE B66	1710-1780	2.78	1.9	25	316.23	20	0.1195	1
LTE B71	663-698	-1.10	0.78	25	316.23	20	0.0491	0.442

Note:

The devices may contain certified WiFi Module, FCC ID: 2AHMR-BW16. Please refer to the module report for antenna gain.

The devices may contain certified Bluetooth Module, FCC ID: 2ATPO-PB03. Please refer to the module report for antenna gain.

The devices may contain certified WWAN Module, FCC ID: XMR201909EC25AFX. Please refer to the antenna report for antenna gain.

The Wi-Fi, BLE and WWAN can transmit simultaneously, the worst case as below:

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$$= S_{2.4G}/S_{limit-2.4G} + S_{BLE}/S_{limit-BLE} + S_{WWAN}/S_{limit-WWAN}$$

$$= 0.0198/1 + 0.0018/1 + 0.0736/0.518$$

$$= 0.16$$

$$< 1.0$$

Result: The device meet FCC MPE at 20 cm distance

===== END OF REPORT =====