



FCC RF EXPOSURE REPORT

FCC ID: 2A8XY-ZDA2HC1Y22M

Project No. : 2601H032
Equipment : AC EV Charger
Brand Name : ZEEDA ENERGY
Model Name : ZDA2-HC1-Y22M-2221
Hardware Version : CD0116
Software Version : MCB-19KW-V49
Applicant : Shanghai Zhida Technology Development Co.,Ltd.
Address : Room 1001-1, NO 127, Guotong Road, Yangpu, Shanghai, China
Manufacturer : Shanghai Zhida Technology Development Co.,Ltd.
Address : Room 1001-1, NO 127, Guotong Road, Yangpu, Shanghai, China
Factory : Elecway Technology Co.,Ltd.
Address : No.369, Liyi Road, Qiandeng Town, Kunshan City,Jiangsu, China,215343
Date of Receipt : Jan. 15, 2026
Date of Test : Jan. 22, 2026~May 09, 2026
Issued Date : Jul. 22, 2026
Test Sample : Engineering Sample No.: SH92026011584
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & KDB 447498 D04 v01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Shanghai)

Grani Zhou

Prepared by : Grani Zhou

Riley Wei

Approved by : Riley Wei

Add: No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China.

Tel: +86-021-61765666

Web: www.newbtl.com

Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacturer's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2601H032	R00	Original Report.	May 22, 2026	Invalid
BTL-FCCP-2-2601H032	R01	This report updated RF exposure test result. It is a revision of the report with serial number BTL-FCCP-2-2601H032 R00. This is a newly released report, replacing the BTL-FCCP-2-2601H032 R00 report.	Jul. 10, 2026	Invalid
BTL-FCCP-2-2601H032	R02	This report updated applicant, manufacturer and factory information. It is a revision of the report with serial number BTL-FCCP-2-2601H032 R01. This is a newly released report, replacing the BTL-FCCP-2-2601H032 R01 report.	Jul. 22, 2026	Valid

1. GENERAL CONCLUSION

According to FCC §1.1307 and KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW).

1) Option A. 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

2) Option B. SAR-Based Exemption

A more comprehensive exemption, considering a variable power threshold that depends on both the separation distance and power, is provided in § 1.1307(b)(3)(i)(B). This exemption is applicable to the frequency range between 300 MHz and 6 GHz, with test separation distances between 0.5 cm and 40 cm, and for all RF sources in fixed, mobile, and portable device exposure conditions.

Accordingly, a RF source is considered an RF exempt device if its available maximum time-averaged (matched conducted) power or its effective radiated power (ERP), whichever is greater, are below a specified threshold.

This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Table B2-Example Power Thresholds (mW)

Frequency (MHz)	Distance(mm)										
	mW	5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

3) Option C MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

**TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES
SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION**

RF Source Frequency			Minimum Distance			Threshold ERP
f_L MHz		f_H MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	–	1.34	159 m	–	35.6 m	1,920 R ²
1.34	–	30	35.6 m	–	1.6 m	3,450 R ² /f ²
30	–	300	1.6 m	–	159 mm	3.83 R ²
300	–	1,500	159 mm	–	31.8 mm	0.0128 R ² f
1,500	–	100,000	31.8 mm	–	0.5 mm	19.2R ²
Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.						

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P_{th}, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

P_{th,i} = the exemption threshold power (P_{th}) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP_j = the ERP of fixed, mobile, or portable RF source j.

ERP_{th,j} = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluated_k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from §1.1310 of this chapter.

2. PRDUCT INFO

Freq. (MHz)	Field Strength@3m (dBμV/m)	EIRP (dBm)	Distances (mm)	ERP (mW)
13.56	70.07	-20.75	5	0.01

Freq (MHz)	AVGP (dBm)	Ant Gain (dBi)	ERP (dBm)	Distances (mm)	Duty (%)	AVGP (mW)	ERP (mW)
2437	12.32	2.99	13.16	200	100%	17.06	20.70
2440	1.50	2.99	2.34	200	100%	1.41	1.71
2402	1.57	2.99	2.41	200	100%	1.44	1.74

Note: EIRP=Field Strength+20log(d)-104.8, where d is the measurement distance.

3. TEST RESULTS

Freq. (MHz)	Result Option A
13.56	exempt

Freq (MHz)	$\lambda/2\pi$ (mm)	Distances applies	ERP Limit (mW)	Result Option C
2437	19.59	apply	768.00	exempt
2440	19.57	apply	768.00	exempt
2402	19.88	apply	768.00	exempt

Simultaneous Analysis:

Specification	Freq (MHz)	PSD Require	PSD (mW/cm ²)	PSD Limit (mW/cm ²)	Ratio
WIFI 2.4G	2437	exempt	0.1081	1	0.1081
BLE	2440	exempt	0.0090	1	0.0090
BT	2402	exempt	0.0091	1	0.0091
Simultaneous Analysis (Limit 1)					0.1172

Note:1) SAR and MPE evaluation is not required(For A). SAR evaluation is not required(For B). Or MPE evaluation is not required(For C).

2) The AVGP and antenna information of Wi-Fi and BT are derived from Module Report (NTC1706431FV00) & (NTC1706435FV01) & (NTC1706435FV00).

End of Test Report