

TEST REPORT

Report No.: BCTC2108668473-2E

Applicant: Dongguan Green Power One Co., Ltd.

Product Name: WIRELESS CHARGER

Model/Type Ref.: GWA16

Tested Date: 2021-08-23 to 2021-09-10

Issued Date: 2021-09-10





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FCC ID:2ASCK-GWA16

Product Name: WIRELESS CHARGER

Trademark: LOMI

GWA16 Model/Type Ref.:

LOMD3002, LOMD3002BK, LOMD300

Prepared For: Dongguan Green Power One Co., Ltd.

Address: No.26, Hongyun Street, Qingxi Town, Dongguan, China

Manufacturer: Dongguan Green Power One Co., Ltd.

Address: No.26, Hongyun Street, Qingxi Town, Dongguan, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District,

Address:

Shenzhen, Guangdong, China

Sample Received Date: 2021-08-23

2021-08-23 to 2021-09-10 Sample tested Date:

Issue Date: 2021-09-10

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FCC CFR 47 part1, 1.1307(b), 1.1310 Test Standards:

Test Results: **PASS**

Tested by:

Kelsey Tan/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.



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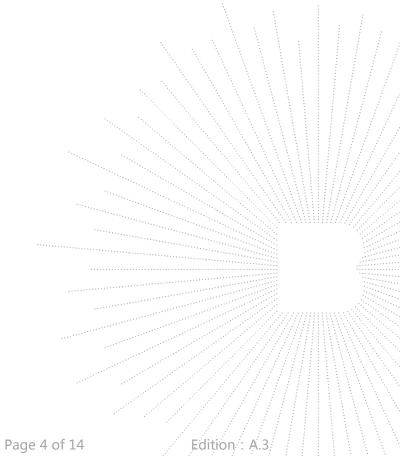
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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2108668473-2E	2021-09-10	Original	Valid



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2. PRODUCT INFORMATION

2.1 Product Information

Model/Type Ref.: GWA16

LOMD3002, LOMD3002BK, LOMD300

Model differences:

All the model are the same circuit and RF module, except model

names.

Product Description: WIRELESS CHARGER

Operation Frequency: 112kHz-205kHz
Antenna installation: loop coil antenna

Ratings: Input:DC 5V3A/9V2A/12V1.5A Output:5W/7.5W/10W/15W

2.2 Support Equipment

Device Type	Brand	rand Model Series No.		Note
WIRELESS CHARGER	LOMI	GWA16/LOM D3002	LOMD3002BK, LOMD300	N/A

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3 Test Mode

Test Modes 1	Wireless charging (5W)
Test Modes 2	Wireless charging (7.5W)
Test Modes 3	Wireless charging (10W)
Test Modes 4	Wireless charging (15W)

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3. TEST FACILITY AND TEST INSTRUMENT USED

3.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

3.2 Test Instrument Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Exposure Level Tester	Narda	ELT-400	N-0231	May. 25, 2021	May.24, 2022
Magnetic field probe 100cm2	Narda	B-Field Probe 100cm2	M0675	May. 25, 2021	May.24, 2022
843 Chamber	ETS	843	84301	Aug. 27, 2020	Aug. 26, 2023

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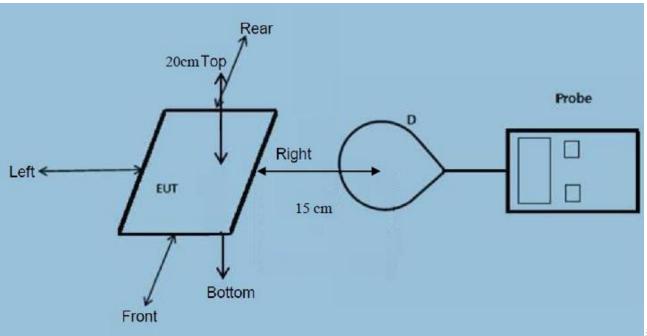


4. METHOD OF MEASUREMENT

4.1 Applicable Standard

According to §1.1307(b)(1), 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. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

4.2 Block Diagram Of Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

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Limits for Occupational / Controlled Exposure								
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)				
0.3-3.0	614	1.63	(100)*	6				
3.0-30	1842 / f	4.89 / f	(900 / f)*	6				
30-300	61.4	0.163	1.0	6				
300-1500			F/300	6				
1500-100,000			5	6				

Limits for General Population / Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	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)*	30			
30-300	27.5	0.073	0.2	30			
300-1500			F/1500	30			
1500-100,000			1	30			

4.4 Test procedure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- c) The turn table was rotated 360d degree 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 680106D01v03.

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4.5 Equipment Approval Considerations

The EUT does comply with item 5(b) of KDB 680106 D01v03

- 1) Power transfer frequency is less than 1MHz Yes, the device operate in the frequency range from 112-205KHz
- 2) Output power from each primary coil is less than or equal to 10 watts.

Yes, the maximum output power of the primary coil is 15W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling only between individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or 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 Mobile exposure conditions only.

6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the EUT field strength levels are 10% x MPE limit.

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4.6 E and H field Strength

(The worst data)

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range	Position	Position	Position	Position	Position	Limits	Test
	(MHz)	Α	В	С	D	E	Test	(A/m)
							(A/m)	
1%	0.112-0.205	0.54	0.89	0.67	0.53	0.82	61.4	614
50%	0.112-0.205	0.95	0.63	0.45	0.54	0.50	61.4	614
99%	0.112-0.205	0.97	0.78	0.73	0.75	0.66	61.4	614

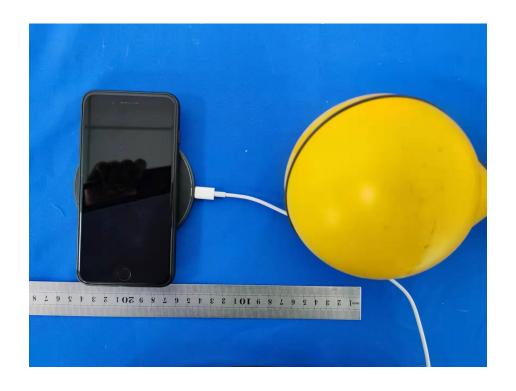
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

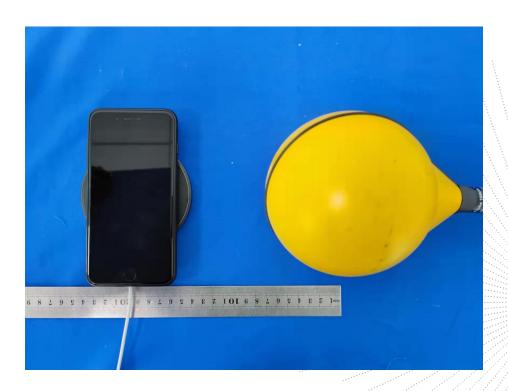
Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range	Position	Position	Position	Position	Position	Limits	Test
	(MHz)	Α	В	С	D	E	Test	(A/m)
							(A/m)	
1%	0.112-0.205	0.064	0.052	0.087	0.069	0.056	0.163	1.63
50%	0.112-0.205	0.073	0.067	0.064	0.076	0.063	0.163	1.63
99%	0.112-0.205	0.085	0.079	0.072	0.094	0.093	0.163	1.63

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5. PHOTOGRAPHS OF TEST SET-UP

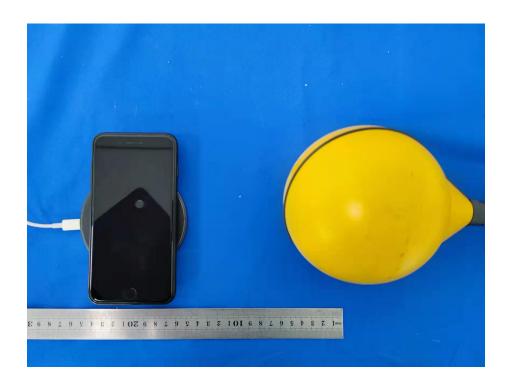


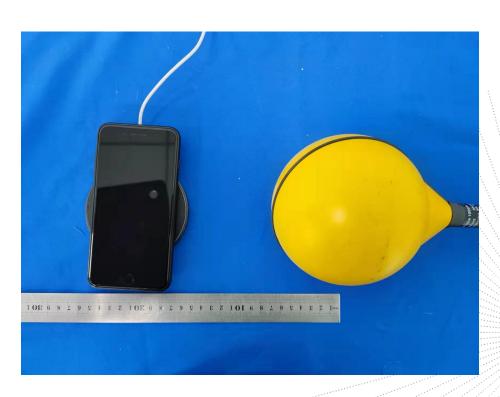


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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.

7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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**** END ****

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