



RF EXPOSURE Test Report

Report No.: FCS202106017W01

Date of issue: 18 Jun. 2021

Applicant: Dongguan Budi Electronic Co.,ltd

Product name: 15W Wireless Charger

Model(s): WL 3800 , WL 3800X

FCC ID: 2A2GO-WL3800

Issued By: Flux Compliance Service Laboratory
Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye
West Road Hi-Tech Industrial, Song shan lake Dongguan

Tel: 769-27280901 Fax:769-27280901 <http://www.fcs-lab.com>

Instructions

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5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

TEST RESULT CERTIFICATION

Applicant's name.....	Dongguan Budi Electronic Co.,Ltd
Address.....	No.3 Xingguang Road, Chongkou Village, Shijie Town Dongguan, Guangdong 523000 CHINA
Manufacturer's Name	Dongguan Budi Electronic Co.,Ltd
Address.....	No.3 Xingguang Road, Chongkou Village, Shijie Town Dongguan, Guangdong 523000 CHINA
Product description	
Product name.....	15W Wireless Charger
Trademark	budi
Model Name	WL 3800
Serial Model	WL3800X
Standards.....	FCC Rules and Regulations Part 15 Subpart C, Section 209
Test procedure	KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01
Date of Test	
Date (s) of performance of tests	07 Jun. 2021 ~ 18 Jun. 2021
Test Result.....	Pass
This device described above has been tested by Flux Compliance Service Laboratory and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.	
Tested by : Reviewed by : Approved by : <i>Scott Shen</i> (Scott Shen) <i>Duke Qian</i> (Duke Qian) <i>Kait Chen</i> (Kait Chen)	

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1 General Information

1.1 Description of EUT

Product name:	15W Wireless Charger
Brand name:	budi
Model name:	WL 3800
Series model:	WL3800X
Deference in serial model:	All the models are of the same circuit and RF module, except the color and model No..
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Inductive Loop Antenna with 1.0dBi
Power source:	Input: DC 5V/2A,9V/1.67A,12V/1.5A Output: 5W,7.5W,10W/15W
Adapter information:	N/A

1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Load	YBZ1.1	/	YBZ

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$

Radiated emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	± 1 degree
Humidity	± 5 %

2 Testing site

Test Site	Flux Compliance Service Laboratory
Test Site Location	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
FCC Registration No.:	514908

3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
FCS-E073	EMF Analyzer	Narda	EHP-200A	/	2021/07/03	2022/07/04

4 Test Results

4.4 Maximum permissible exposure

4.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm ²)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0 6	6
300-1500			f/300	6
1500-100000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
1500-100000			1	30
f = frequency in MHz * = Plane-wave equivalent power density				

4.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

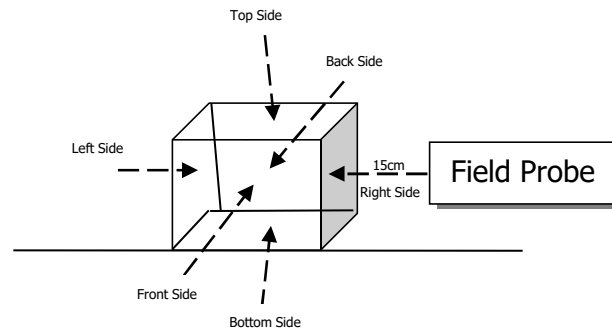
Record the test results.

KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01:

- (1) Power transfer frequency is less than 1 MHz
- (2) Output power from each primary coil is less than or equal to 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.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (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.

Note: The device can charge wired (mobile) or wirelessly (portable) is not in compliance with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 conditions (5).

4.4.3 Test Setup



4.4.4 Test mode

test Mode	Description
Mode 1	Mobile phone (5W)
Mode 2	Mobile phone (7.5W)
Mode 3	Mobile phone (10W)
Mode 4	Mobile phone (15W)

NOTE: The test modes were carried out for all operation modes. The test mode 4 of the EUT was the worst test mode for MPE, and its test data was showed.

4.4.5

Test Result

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<1%	Top	0	1.15	0.1131
<1%	Bottom	0	1.35	0.1127
<1%	Left	0	1.24	0.1129
<1%	Right	0	1.51	0.1123
<1%	Front	0	1.32	0.1142
<1%	Back	0	1.33	0.1136
Limit			614	1.63
Margin Limit (%)			0.246 %	7.006 %

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<50%	Top	0	1.35	0.1176
<50%	Bottom	0	1.21	0.1157
<50%	Left	0	1.32	0.1147
<50%	Right	0	1.27	0.1152
<50%	Front	0	1.29	0.1165
<50%	Back	0	1.25	0.1156
Limit			614	1.63
Margin Limit (%)			0.220 %	7.215 %

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<99%	Top	0	1.42	0.1145
<99%	Bottom	0	1.35	0.1138
<99%	Left	0	1.31	0.1126
<99%	Right	0	1.32	0.1134
<99%	Front	0	1.24	0.1129
<99%	Back	0	1.28	0.1133
Limit			614	1.63
Margin Limit (%)			0.231 %	7.025 %

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<1%	Top	5	1.03	0.1087
<1%	Bottom	5	1.12	0.1092
<1%	Left	5	1.09	0.1096
<1%	Right	5	1.21	0.1103
<1%	Front	5	1.13	0.1115
<1%	Back	5	1.15	0.1108
Limit			614	1.63
Margin Limit (%)			0.197 %	6.840 %

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<50%	Top	5	1.13	0.1107
<50%	Bottom	5	1.16	0.1105
<50%	Left	5	1.11	0.1098
<50%	Right	5	1.19	0.1111
<50%	Front	5	1.06	0.1101
<50%	Back	5	1.08	0.1106
Limit			614	1.63
Margin Limit (%)			0.194 %	6.816 %

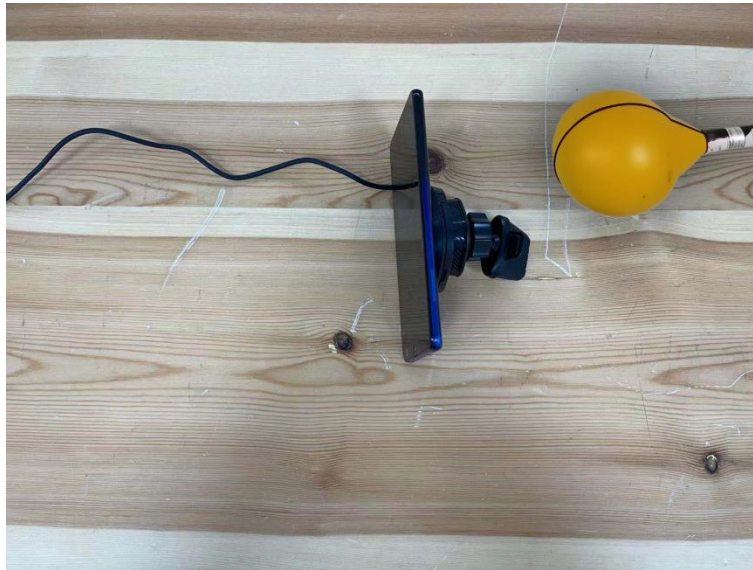
Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<99%	Top	5	1.16	0.1115
<99%	Bottom	5	1.13	0.1117
<99%	Left	5	1.09	0.1109
<99%	Right	5	1.15	0.1103
<99%	Front	5	1.04	0.1110
<99%	Back	5	1.10	0.1112
Limit			614	1.63
Margin Limit (%)			0.189 %	6.853 %

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<1%	Top	10	0.92	0.1062
<1%	Bottom	10	0.94	0.1064
<1%	Left	10	1.01	0.1058
<1%	Right	10	0.98	0.1069
<1%	Front	10	0.94	0.1057
<1%	Back	10	1.04	0.1066
Limit			614	1.63
Margin Limit (%)			0.169 %	6.558 %

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<50%	Top	10	0.93	0.1057
<50%	Bottom	10	0.95	0.1062
<50%	Left	10	0.94	0.1054
<50%	Right	10	1.03	0.1066
<50%	Front	10	0.91	0.1059
<50%	Back	10	0.92	0.1051
Limit			614	1.63
Margin Limit (%)			0.168 %	6.540 %

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<99%	Top	10	0.99	0.1049
<99%	Bottom	10	0.91	0.1052
<99%	Left	10	1.02	0.1057
<99%	Right	10	0.93	0.1048
<99%	Front	10	0.98	0.1053
<99%	Back	10	0.96	0.1045
Limit			614	1.63
Margin Limit (%)			0.166 %	6.485 %

4.4.6 MPE Setup photo



----END OF REPORT----