

RF EXPOSURE REPORT

FOR

Applicant	:	SDI Technologies Inc.	
Address	:	1299 Main Street, Rahway, NJ 07065, U.S.A	B
Equipment under Test	:	uetooth Speaker + Clock + Qi Charger	
Model No.	:	BTW38, iBTW38B, iBTW38B8, iBTW38X(X could be ingle or multiple digits by any alphabets denote ifferent cabinet color)	
Trade Mark	:	lome	
FCC ID	:	EMOIBTW38A	
Manufacturer	÷	SDI Technologies Inc.	
Address	:	1299 Main Street, Rahway, NJ 07065, U.S.A	

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808
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Test Report Declare

Applicant	:	SDI Technologies Inc.
Address	8	1299 Main Street, Rahway, NJ 07065, U.S.A
Equipment	:	Bluetooth Speaker + Clock + Qi Charger
Model No.	:	iBTW38, iBTW38B, iBTW38B8, iBTW38X(X could be single or multiple digits by any alphabets denote different cabinet color)
Trade Mark	:	iHome
Manufacturer	-	SDI Technologies Inc.
Address	•	1299 Main Street, Rahway, NJ 07065, U.S.A
Factory	:	DONGGUAN SYNST ELECTRONICS CO., LTD
Address	:	THE SCIENCE & TECHNOLOGY INDUSTRIAL PARK, HOUJIE TOWN, DONGGUAN, GUANGDONG, CHINA

Assess Standard Used: FCC CFR 47 part1, 1.1307(b), 1.1310; KDB680106 DR03-44118

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R21062902-2E07		
Date of Receipt:	Jul. 01, 2021	Date of Test:	Jul. 01, 2021~ Aug. 09, 2021

Prepared By:

Johnny

Johnny Wang/Engineer

Approved By: Approved By: Approved By: Control By: Co

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions		Issue Date	Revised By
	Initial issue	e e	Aug. 10, 2021	8
	nP)	DP7	- P	7



1. General Information

1.1. Description of equipment

:	Bluetooth Speaker + Clock + Qi Charger
:	iBTW38, iBTW38B, iBTW38B8, iBTW38X(X could be single or multiple digits by any alphabets denote different cabinet color)
:	All models are identical except the color. (X could be single or multiple digits by any alphabets denote different cabinet color) Therefore, the test performed on the model iBTW38
:	Please reference user manual of this device
:	DC 12V by external AC-DC Adapter: BQ30A-1202500-U DC 3.0V by CR2450 battery for clock backup
:	110 kHz - 205 kHz
:	Inductive loop coil antenna
:	N/A [®]

Note: EUT is the abbreviation of equipment under test.

1.2. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number or Type	Description ®	Other
Dummy load	N/A	N/A	N/A	N/A

1.3. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01 FCC Designation Number: CN1182, Test Firm Registration Number: 540522 Innovation, Science and Economic Development Canada Site Registration Number: 10288A Conformity Assessment Body identifier: CN0048 VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Electric and Magnetic Field Analyzer	narda	EHP-200A	170WX91016	Jan. 06, 2021	1 Year

3. Method of Measurement

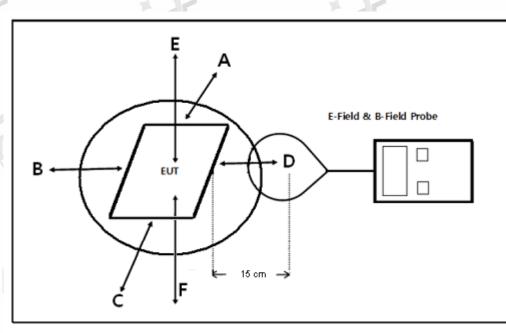
3.1. Applicable standard

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 §2.1091 RF exposure is calculated.

According KDB 680106 D01: RF Exposure Wireless Charging Apps v03r01.

3.2. Block diagram of test setup



Note: Due to installation limitations no tests from the underside of the charging device (Test Position F) are required.

3.3. Test procedure

- a) The RF exposure test was performed in shielded chamber.
- b) The measurement probe was placed at test distance (15 cm) which is between the edge of the charger and the geometric centre of probe.
- c) The measurement probe used 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 KDB680106 DR03-44118.

3.4. Equipment approval considerations:

The EUT does comply with section 5 b) of KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01.

(1) Power transfer frequency is less than 1 MHz. Yes; the device operates in the frequency range from 110 kHz ~ 205 kHz

(2) Output power from each primary coil is less than or equal to 15 watts Yes; the maximum output power of the primary coil is less than 10 W.

(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. Yes. It has one primary coil.

(4) Client device is placed directly in contact with the transmitter. Yes.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes.

(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.

Yes; the EUT H-field strengths levels are less than 50% of MPE limit.

Frequency range (MHz)		Magnetic field strength (A/m)		Averaging time (minutes)
	(A) Limits for O	ccupational/Controlled Exp	osure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/1	4.89/1	*900/f2	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/1	2.19/1	*180/f2	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

3.5. E and H Field Strength

Test mode for wireless charger: Dummy load: 7.5W,9W charge mode

E-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (V/m)

Probe Measure	Limits	
7.5W	9W	Test (V/m)
0.664	0.810	614
0.611	0.827	614
1.072	1.705	614 [®]
0.652	0.669	614
0.660	1.027	614
	7.5W 0.664 0.611 1.072 0.652	0.664 0.810 0.611 0.827 1.072 1.705 0.652 0.669

H-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (A/m)

Test Desition	Probe Measu	Limits	
Test Position	7.5W	9W 👋	Test (A/m)
A	0.082	0.094	1.63
В	0.057	0.056	1.63
С	0.207	0.080	1.63
D	0.057	0.057	1.63
E	0.150	0.091	1.63