



Microtest
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RF EXPOSURE Test Report

Report No.: MTi210105024-02E2

Date of issue: Feb. 05, 2021

Applicant: FLI Charge, LLC

Product name: FLIwatch

Model(s): 010060201

FCC ID: 2AT2A-01006

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>



Instructions

1. The report shall not be partially reproduced without the written consent of the laboratory;
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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	FLI Charge, LLC
Address	191 E Deerpath Road, Suite 100, Lake Forest, IL 60045
Manufacturer's Name	Dongguan Skytech Creations manufacturing Company
Address	Qiaotou Industrial District, Qiaoli Cun, Changping Town, Dongguan

Product description

Product name	FLIwatch
Trademark	FLI Charge
Model Name	010060201
Serial Model	N/A
Standards	FCC CFR 47 PART 1 , 1.1310
Test procedure	KDB 680106 D01 RF Exposure Wireless Charging App v03

Date of Test

Date (s) of performance of tests	27 Jan. 2021 ~ 05 Feb. 2021
Test Result	Pass

This device described above has been tested by Shenzhen Microtest Co., Ltd. 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.

Testing Engineer

:

(Demi Mu)

Technical Manager

:

(Leo Su)

Authorized Signatory

:

(Tom Xue)



Table of Contents

1	GENERAL INFORMATION	5
1.1	DESCRIPTION OF EUT	5
1.2	ANCILLARY EQUIPMENT LIST	5
1.3	MEASUREMENT UNCERTAINTY	5
2	TESTING SITE	6
3	LIST OF TEST EQUIPMENT	7
4	TEST RESULTS	8
4.4	MAXIMUM PERMISSIBLE EXPOSURE.....	8
4.4.1	<i>Limit</i>	8
4.4.2	<i>Test Procedures</i>	8
4.4.3	<i>Test Setup</i>	9
4.4.4	<i>Test Result</i>	10
4.4.5	<i>MPE Setup photo</i>	11



1 General Information

1.1 Description of EUT

Product name:	FLIwatch
Brand name:	FLI Charge
Model name:	010060201
Series model:	N/A
Deference in serial model:	N/A
Operation frequency:	326.5 kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Power source:	DC 5V from adapter AC 120V/60Hz
Battery:	N/A
Adapter information:	N/A

1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Adapter	BS-E915	/	Shenzhen Times Innovation Technology Co., Ltd
Watch	/	/	Apple Inc.

1.3 Measurement uncertainty

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

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	Shenzhen Microtest Co., Ltd
Test Site Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinghe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573



3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E115	Electric and Magnetic Field Probe - Analyzer	Narda Safety Test Solutions GmbH	EHP-200A	/	2020/11/12	2021/11/11

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%.

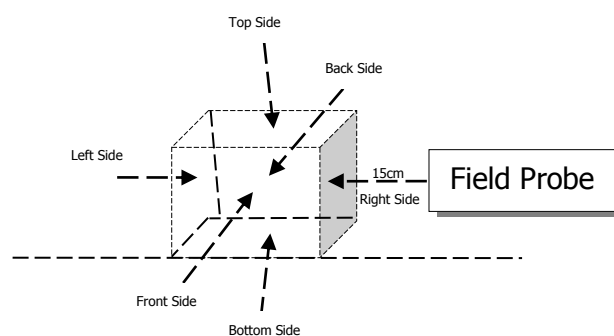
Record the test results.

KDB 680106 D01 RF Exposure Wireless Charging App v03:

- (1) Power transfer frequency is less than 1MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- (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 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.

Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging App v03 6 conditions.

4.4.3 Test Setup





4.4.4 Test Result

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<1%	Top	20	0.42	0.0116
<1%	Bottom	15	0.40	0.0113
<1%	Left	15	0.42	0.0112
<1%	Right	15	0.42	0.0108
<1%	Front	15	0.42	0.0105
<1%	Back	15	0.41	0.0112
Limit			614	1.63
Margin Limit (%)			0.069%	7.12%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<50%	Top	20	0.41	0.0119
<50%	Bottom	15	0.40	0.0115
<50%	Left	15	0.41	0.0113
<50%	Right	15	0.41	0.0107
<50%	Front	15	0.41	0.0110
<50%	Back	15	0.42	0.0112
Limit			614	1.63
Margin Limit (%)			0.069%	7.30%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<99%	Top	20	0.43	0.0120
<99%	Bottom	15	0.41	0.0109
<99%	Left	15	0.40	0.0107
<99%	Right	15	0.41	0.0105
<99%	Front	15	0.42	0.0112
<99%	Back	15	0.41	0.0106
Limit			614	1.63
Margin Limit (%)			0.070%	7.36%



4.4.5 MPE Setup photo



----END OF REPORT----