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Report No.: 2012RSU048-U1 Report Version: V01 Issue Date: 12-30-2020

RF Exposure Evaluation Declaration

FCC ID: LM6-LF10WQWC

Application: Life Fitness

Application Type: Certification

Product: Life Fitness 10W Wireless Charger

Model No.: 1011883-0001

Brand Name: Life Fitness

FCC Classification: Part 15 Low Power Transmitter Below 1705 kHz (DCD)

Test Date: December 15 ~ 22, 2020

Reviewed By : Kom

Kevin Guo

Approved By

ilac-MRA



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

Report No.	Version	Description	Issue Date	Note
2012RSU048-U1	Rev. 01	Initial Report	12-30-2020	



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1. General Information

1.1. Applicant

Life Fitness

10601 W. Belmont, Franklin Park, Illinois 60131, United States

1.2. Manufacturer

Promate Solutions Corporation.

1F, No. 30, Section 1, Huanshan Road. Neihu District, Taipei, 11442 Taiwan.

1.3. Testing Facility

\boxtimes	Test Site - MRT Suzhou Labora	etory					
		•					
	Laboratory Location (Suzhou – W	.					
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou – SIP)						
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China						
	Laboratory Accreditations						
	A2LA: 3628.01	CNAS: L10551					
	FCC: CN1166	ISED: CN0001					
	VCCI: R-20025, G-20034, C-20020,	T-20020					
	Test Site - MRT Shenzhen Lab	oratory					
	Laboratory Location (Shenzhen)						
	1G, Building A, Junxiangda Building	, Zhongshanyuan Road West, Nanshan District, Shenzhen,					
	China						
	Laboratory Accreditations						
	A2LA: 3628.02	CNAS: L10551					
	FCC: CN1284	ISED: CN0105					
	Test Site - MRT Taiwan Labora	tory					
	Laboratory Location (Taiwan)						
	No. 38, Fuxing 2 nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)						
	Laboratory Accreditations						
	TAF: L3261-190725						
	FCC: 291082, TW3261	ISED: TW3261					

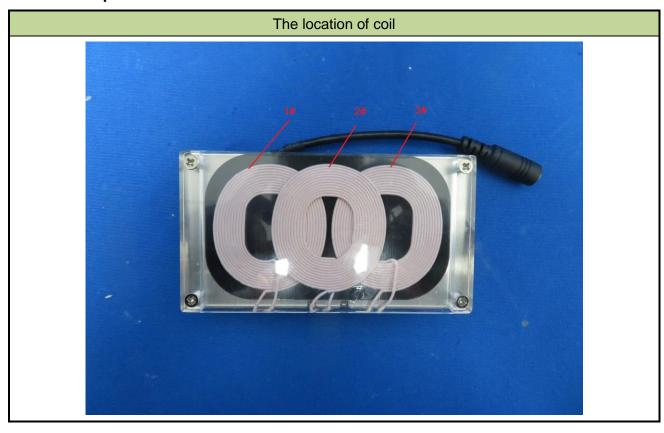


2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Life Fitness 10W Wireless Charger
Model No.	1011883-0001
Brand Name	Life Fitness
Working Frequency Range	120kHz ~ 130kHz
Modulation Type	FSK
Working Temperature Range	-10 ~ 45°C
Input	12V-1.5A Max
Output	10W MAX

2.2. Description of Coil







3. TEST EQUIPMENT CALIBRATION DATE

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
CARRIES SENSOR	narda	EMR-20	MRTSUE10033	1 year	2021/06/15



4. RF EXPOSURE EVALUATION

4.1. Limits

§1.1310 Radiofrequency radiation exposure limits.

Below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time					
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)					
	(A) Limits for Occupational/ Control Exposures								
0.3-3.0	614	1.63	*100	6					
3.0-30	1842/f	4.89/f	*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 Gen	eral Population/ Und	controlled Exposures						
0.3-1.34	614	1.63	*100	30					
1.34-30	824/f	2.19/f	*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					

f= Frequency in MHz

^{* =} Plane-wave equivalent power density

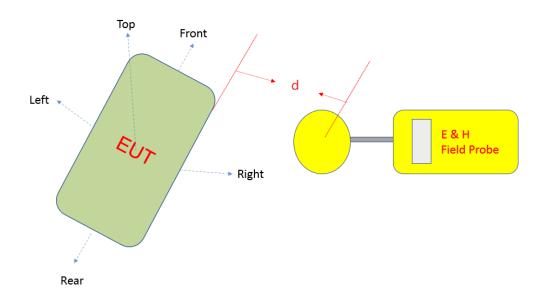


4.2. EQUIPMENT APPROVAL CONSIDERATIONS ON KDB 680106 D01v03

EQ	UIPMENT APPROVAL CONSIDERATIONS	COMPLY
1)	Power transfer frequency is less than 1 MHz	Yes.
		Wireless operating frequency range: 120kHz ~
		130kHz
2)	Output power from each primary coil is less	No.
	than or equal to 15 watts.	Wireless maximum transmitted power: 10W Max.
3)	The transfer system includes only single	Yes.
	primary and secondary coils. This includes	Only single primary.
	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	Yes.
	with the transmitter.	Placed directly.
5)	Mobile exposure conditions only (portable	Yes.
	exposure conditions are not covered by this	Mobile exposure conditions only.
	exclusion).	
6)	The aggregate H-field strengths at 15 cm	Yes.
	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.	



4.3. Test Setup



Note:

- 1. This shall be measured as the distance from the edge of the device to the center of the measurement probe.
- 2. d is the test distance at cm. Detailed information please refer to clause 2.3 of this report.

4.4. Test System Details

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model No.	Serial No.	Power Cord
Wireless Charger Receiver	E-charging	N/A	N/A	N/A

Note:

- 1. The Wireless Charger Receiver is provided by manufacturer and it can control the EUT to be at the maximum output power state.
- 2. Measurements at different power levels of 0 10 50 and 90% for charging mobile phone mode has been evaluated. The worst-case data was shown in this report.

Test Mode:

1. Charging Mode

The test results shown in this report represent the worst-case data.



4.5. Test Result of RF Exposure Evaluation

Product Life Fitness 10W Wireless Charger					
Test Item	RF Exposure Evaluation – 1#				
Note: Communicate with Wireless Charger Receiver					

Electric Field Emissions						
Test	Test Distance (d)	Measure Value	Limit	50% Limit	Result	
Position	(cm)	(V/m)	(V/m)	(V/m)		
Front	15	0.74	614	307	Pass	
Rear	15	0.78	614	307	Pass	
Right	15	0.61	614	307	Pass	
Left	15	0.98	614	307	Pass	
Тор	15	1.64	614	307	Pass	
		Magnetic Field	Emissions			
Test	Test Distance (d)	Measure Value	Limit	50% Limit	Result	
Position	(cm)	(A/m)	(A/m)	(A/m)		
Front	15	0.032	1.63	0.815	Pass	
Rear	15	0.036	1.63	0.815	Pass	
Right	15	0.028	1.63	0.815	Pass	
Left	15	0.041	1.63	0.815	Pass	
Тор	15	0.075	1.63	0.815	Pass	





Product	Life Fitness 10W Wireless Charger			
Test Item	RF Exposure Evaluation – 2#			
Note: Communicate with Wireless Charger Receiver				

Electric Field Emissions							
Test	Test Distance (d)	Measure Value	Limit	50% Limit	Result		
Position	(cm)	(V/m)	(V/m)	(V/m)			
Front	15	0.88	614	307	Pass		
Rear	15	0.90	614	307	Pass		
Right	15	1.04	614	307	Pass		
Left	15	1.01	614	307	Pass		
Тор	15	1.71	614	307	Pass		
		Magnetic Field	Emissions				
Test	Test Distance (d)	Measure Value	Limit	50% Limit	Result		
Position	(cm)	(A/m)	(A/m)	(A/m)			
Front	15	0.037	1.63	0.815	Pass		
Rear	15	0.042	1.63	0.815	Pass		
Right	15	0.052	1.63	0.815	Pass		
Left	15	0.051	1.63	0.815	Pass		
Тор	15	0.063	1.63	0.815	Pass		



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Product	Life Fitness 10W Wireless Charger			
Test Item	RF Exposure Evaluation – 3#			
Note: Communicate with Wireless Charger Receiver				

Electric Field Emissions						
Test	Test Distance (d)	Measure Value	Limit	50% Limit	Result	
Position	(cm)	(V/m)	(V/m)	(V/m)		
Front	15	0.73	614	307	Pass	
Rear	15	0.83	614	307	Pass	
Right	15	0.92	614	307	Pass	
Left	15	0.64	614	307	Pass	
Тор	15	1.27	614	307	Pass	
Magnetic Field Emissions						
Test	Test Distance (d)	Measure Value	Limit	50% Limit	Result	
Position	(cm)	(A/m)	(A/m)	(A/m)		
Front	15	0.042	1.63	0.815	Pass	
Rear	15	0.046	1.63	0.815	Pass	
Right	15	0.069	1.63	0.815	Pass	
Left	15	0.049	1.63	0.815	Pass	
Тор	15	0.074	1.63	0.815	Pass	

_____ The End _____





Appendix A - Test Setup Photograph

Refer to "2012RSU048-UT" file.