

Report No.: GZCR210902115702 Page: 1 of 12 FCC ID: 2AEEV-OBFTC-0093-A

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2109021157AT
Applicant:	Otter Products, LLC.
Address of Applicant:	209 South Meldrum, Fort Collins, Colorado, United States, 80521
Manufacturer:	Otter Products, LLC.
Address of Manufacturer:	209 South Meldrum, Fort Collins, Colorado, United States, 80521
Equipment Under Test (EUT):
EUT Name:	Folding Wireless Charging Stand
Model No.:	OBFTC-0093-A
Trade Mark:	OTTERBOX
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310
	47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt:	2021-09-24
Date of Evaluation:	2021-09-24 to 2021-09-29
Date of Issue:	2021-10-11
Evaluation Result:	Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.

Kobe Jian EMC Laboratory Manager



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2021-10-11		Original	

Authorized for issue by		
Tested By	Curry Wu/Project Engineer	
Reviewed By	Ridey Lin	
	Ricky Liu/Reviewer	



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Evaluation Summary 2

Radio Spectrum Matter Part

ltem	Standard	Method	Requirement	Result
		KDB 680106 D01		
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	TCB Workshop Presentation November 2019 RF Exposure	CFR 47 Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Declaration of EUT Family Grouping:

AC adapter model No.: PD30U-1TNA

According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on pin to pin protocol IC.

Therefore, Only adapter 1 was tested in all modes.



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4 **General Information**

4.1 Details of E.U.T.

Power Supply:	AC adapter 1: Model: PD30U-1TNA
	Input: 100-240V 50/60Hz 1.5A Max.
	Output: 5V/3A, 9V/3A, 15V/2A, 20V/1.5A
	AC adapter 2:
	Model: PD30U-1TNA
	Input: 100-240V 50/60Hz 1.5A Max.
	Output: 5V/3A, 9V/3A, 15V/2A, 20V/1.5A
	WPT Output: 5W/7.5W/10W/15W
Cable(s):	USB-C to USB-C cable 210cm Unshielded
Modulation Type:	Load modulation
Antenna Type:	Loop antenna
Operation Frequency:	119.00KHz-130.80KHz
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W, 7.5W, 10W and 15W use coil1, coil2 and coil3, the worst case 15W use coil1 is reported only.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
E-loading	SGS	N/A	REF. No.SEA42A00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB



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Equipments Used during Test 5

Equipment Manufacturer		Model No	Inventory No	Cal Due Date
743 Compact 3m Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2022-10-19
Electric and Magnetic Field Probe - Analyzer(9kHz-30MHz)	Narda	EHP-200A	180ZX00603	2022-01-24
Test Software	Narda	EHP200-TS	Test Software	2022-01-06

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-08	2022-07-07
DMM	Fluke	73	EMC0007	2021-07-08	2022-07-07



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5.1 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

5.2 Facility

The facility is recognized, certified, or accredited by the following organizations:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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5.3 Deviation from Standards

None

5.4 Abnormalities from Standard Conditions None



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Test Results 6

6.1 RF Exposure test

Test Requirement:	47 CFR PART 1, Subpart I, Section 1.1310
Measurement Distance:	15cm
Limit:	

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

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 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			
300-1500	/	/	f/300	6			
1500-100,000	/	/	5	6			
	(B) Limits for Gen	eral Population/Uncontro	olled Exposure				
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			
300-1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

F=frequency in MHz

检验检测专用章

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2} \qquad \begin{array}{l} S = power \ density \ (mW/cm^2) \\ P = the \ net \ power \ delivered \ t \\ G = gain \ of \ the \ antenna \ in \ lin \\ d = distance \ between \ observ$$

e net power delivered to the antenna (mW)

- in of the antenna in linear scale
 - distance between observation point and center of the radiator (cm)

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6.1.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1010 mbar 22.8 °C Humidity: 52.7% RH

EUT Operation:

This device has been tested the worst status of full load and the device has been tested with load at zero charge, intermediate charge, and full charge.



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6.1.2 Measurement Data

Output Voltage=DC 9V; The max output power =15W;

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	15	Side 1	0.0532	0.815
		Side 2	0.0569	0.815
		Side 3	0.0583	0.815
		Side 4	0.0556	0.815
		Тор	0.0609	0.815

Magnetic Field Emissions

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit
frequency			zero charge	intermediate charge	full charge	(A/m)
125 kHz	15	Side 1	0.0572	0.0481	0.0382	0.815
		Side 2	0.0612	0.0514	0.0409	0.815
		Side 3	0.0627	0.0526	0.0419	0.815
		Side 4	0.0597	0.0502	0.0399	0.815
		Тор	0.0654	0.0550	0.0437	0.815



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Photographs- RF exposure Setup photos 7

Refer to Appendix_RF Exposure SetupPhotos for GZCR2109021157AT.

- End of the Report -



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