

Report No.: GZCR210902113802

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# RF EXPOSURE EVALUATION REPORT

**Application No.:** GZCR2109021138AT **Applicant:** Spigen Korea Co., Ltd.

Address of Applicant: Spigen HQ-A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, South

Korea

Manufacturer: Dongguan DBK Energy Technology Co.,Ltd

Address of Manufacturer: No. 252, Zhangmutou Section, Dongshen Rd., Zhangmutou Town,

Dongguan City, Guangdong Province, P.R.China

Factory: Dongguan DBK Energy Technology Co.,Ltd

Address of Factory: No. 252, Zhangmutou Section, Dongshen Rd., Zhangmutou Town,

Dongguan City, Guangdong Province, P.R.China

**Equipment Under Test (EUT):** 

**EUT Name:** Spigen ArcHybrid Wireless Portable Charger

Model No.: PH2100

Trade Mark:

4

(Spigen)

Standard(s): 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

**Date of Receipt:** 2021-09-15

**Date of Evaluation:** 2021-09-15 to 2021-09-24

**Date of Issue:** 2021-09-28

Evaluation Result: Pass\*

Kobe Jian EMC Laboratory Manager



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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



EMC-TRF-03 Rev 1.0

# SGS-CSTC Standards Technical Services Co., Ltd. **Guangzhou Branch**

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	Revision Record							
Version	Version Chapter Date Modifier Remai							
01		2021-09-28		Original				

Authorized for issue by		
Tested By	Cof Vlu	
	Curry Wu/Project Engineer	
Reviewed By	Ridoy Liu	
	Ricky Liu/Reviewer	



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#### **Evaluation Summary** 2

Radio Spectrum Matter Part									
Item	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.



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## 4 General Information

#### 4.1 Details of E.U.T.

Power supply: Capacity: 5000mAh 3.6V 18Wh

Input: DC 5V/2.4A

Output USB-C: DC 5V/2.4A

Total: 12.0W Max. Wireless up to 7.5W

Multi Output USB-C: DC 5V/1.0A, 5.0W

Wireless up to 5.0W Total: 10.0W Max.

Cable(s): Type-C cable: 100cm unshielded

Modulation Type: Load modulation Antenna Type: Loop antenna

Operation Frequency: 113kHz to 146.4kHz

Remark: Tests were conducted in all load modes and the worst case mode was

reported in each test item.





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## 4.2 Test modes description:

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Final test	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charging_Keep the EUT working in charge mode (5W), while keep the battery of the EUT in charging mode via Type-C port.
Pre-scan	03	Charging_Keep the EUT working in charge mode (5W), while keep the EUT in discharging mode via Type-C port.

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Load Resistor	SGS	N/A	REF. No.SEA06A00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Adapter	Nokia	AD-18WC	REF. No.SEA05L01F
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
E-loading	SGS	N/A	REF. No.SEA42A00

### 4.4 Measurement Uncertainty

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



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# 5 Equipments Used during Test

RF Exposure									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
743 Compact 3m Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19				
Electric and Magnetic Field Probe - Analyzer(9kHz- 30MHz)	Narda	EHP-200A	180ZX00603	2021-01-25	2022-01-24				

General used equipment								
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

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)

#### TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	cy range Electric field strength Magnetic field strength (V/m) (A/m)		Power density (mW/cm²)	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/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/		f/1500	30
1500-100,000	/	1	1.0	30

F=frequency in MHz

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

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$ 

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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<sup>\*=</sup>Plane-wave equivalent power density



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#### 6.1.1 E.U.T. Operation

Operating Environment:

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

**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

#### The max output power =7.5W;

#### **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
127.4 kHz		Side 1	0.100	0.114	0.140		
which is the		Side 2	0.100	0.113	0.138		
worst case within the	15	Side 3	0.096	0.113	0.128	0.815	0.163
operation		Side 4	0.107	0.120	0.144		
frequency range		Тор	0.116	0.135	0.160		

### Magnetic Field Emissions

magnetic i leiu Linissions								
Test Distance		Tool	Probe Measure Result(A/m)		50 % Limit	10 % Limit		
Operation frequency	(cm)	Test Position	zero charge	intermedia te charge	full charge	( <b>A</b> /m)	( <b>A</b> /m)	
127.4 kHz	Hz	Side 1	0.135	0.113	0.090			
which is the		Side 2	0.134	0.112	0.089			
worst case within the operation		Side 3	0.130	0.109	0.087	0.815	0.163	
		Side 4	0.150	0.126	0.100			
frequency range		Тор	0.162	0.136	0.108		ļ	



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# Photographs- RF exposure Setup photos

Refer to Appendix – RF exposure setup Photos for GZCR2109021138AT

- End of the Report -



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