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

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological
Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555
Fax: +86 (0) 20 82075059
Email: ee.guangzhou@sgs.com

TEST REPORT

Application No.:	GZEM1905013293CR
Applicant:	Xiamen Paltier Electronic Technology Co., Ltd.
Address of Applicant:	Unit 01, 3rd Floor, No. 1726 Gangzhong Road, Xiamen Free Trade Zone, Xiamen, China
Manufacturer:	Xiamen Paltier Electronic Technology Co., Ltd.
Address of Manufacturer:	Unit 01, 3rd Floor, No. 1726 Gangzhong Road, Xiamen Free Trade Zone, Xiamen, China
Factory:	Xiamen Paltier Electronic Technology Co., Ltd.
Address of Factory:	4th Floor, Buidling 1st, ZhenNan Seven Road, XinMin Town, Tong'An District, Xiamen, China
Equipment Under Test (EUT):	
EUT Name:	Desktop Smart Cup
Model No.:	PT-503
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt:	2019-06-04
Date of Test:	2019-06-19
Date of Issue:	2019-08-05
Test Result:	**Pass***

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

Kobe Jian
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2019-08-05		Original

Authorized for issue by:				
Tested By		**Jackson_Yuan /Project Engineer**		2019-06-19 **Date**
Checked By		**Ricky_Liu /Reviewer**		2019-08-05 **Date**

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01	CFR 47 Part 1.1310 KDB 680106 D01	Pass

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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 12V, 4A powered by adapter as below: Model No.: R481-1204000CU Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 12 V, 4000 mA
Rated Power:	10 W for wireless charger 48 W for normal heating/cooling
Test Voltage:	AC 120 V, 60 Hz
Cable:	For adapter: AC plug DC output cables (unshielded, 1.5m) For main unit: DC input ports
Max Internal Source:	8MHz
Detail channel & frequency:	103.56 kHz – 147.23 kHz
Antenna Type:	Inductive Loop Coil Antenna
Modulation Type:	Load Modulation

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SANSUNG	SM-9508	R28K110W9JV

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10^{-8}
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
		±4.8dB (above 1GHz)
8	Radiated Spurious Emission Test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-18GHz)
9	Temperature	±0.4℃
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%

4.4 Test 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

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No tests were sub-contracted.

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4.5 Test Facility

The test 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 C-Tick mark as a result of our NVLAP accreditation.

- **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-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

- **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, Jul 13, 2017.

- **Industry Canada (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-10449 and T-11179)**

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Due date
Power Meter	Agilent Technologies	U2021XA_Ch4	SEM004-10	2019-02-24	2020-02-23
ESG vector signal generator	Agilent Technologies	E4483C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	KEYSIGHT	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	Agilent Technologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	Agilent Technologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	Zhong Yu	8 x 3 x 3.8 m3	EMC0306	2016-12-27	2019-12-26
Electric and Magnetic Field Analyzer	narda	NBM-550/EHP-50F	EMC2143	2019-02-07	2021-02-06

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6 Radio Spectrum Technical Requirement

6.1 RF Exposure

6.1.1 Test Requirement:

CFR 47 Part 1.1310

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)	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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30
f = frequency in MHz * = Plane-wave equivalent power density				

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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6.1.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

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

6.1.3 Measurement Data

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

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)
			zero charge	intermediate charge	full charge	
103.56-147.23 kHz	15	Side 1	4.12	4.66	4.49	307
		Side 2	4.33	5.12	4.76	
		Side 3	4.27	5.89	5.46	
		Side 4	4.78	4.37	4.85	
	20	Top	3.55	4.90	3.27	

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)
			zero charge	intermediate charge	full charge	
103.56-147.23 kHz	15	Side 1	0.0754	0.0893	0.0866	0.815
		Side 2	0.0902	0.0884	0.0886	
		Side 3	0.0933	0.0976	0.0975	
		Side 4	0.0905	0.0945	0.0963	
	20	Top	0.1986	0.2015	0.2067	

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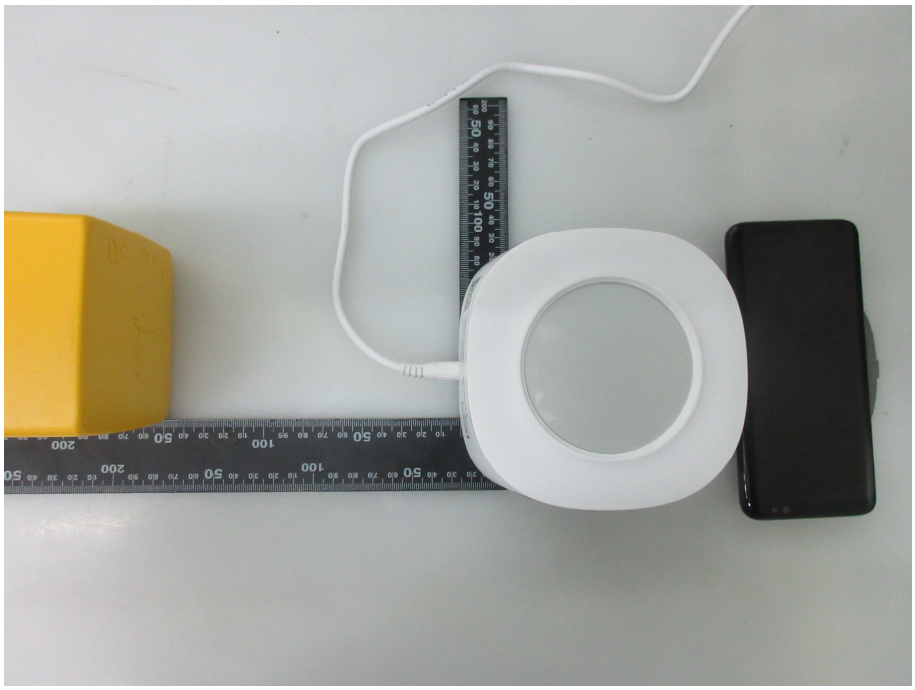
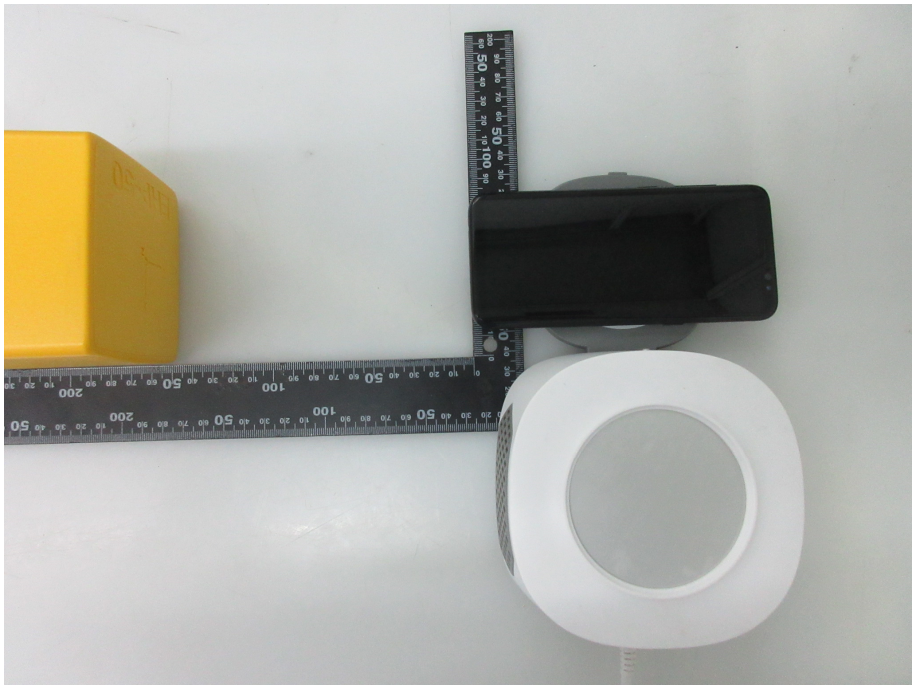
7 RF exposure setup Test Setup

Side 1



Side 2



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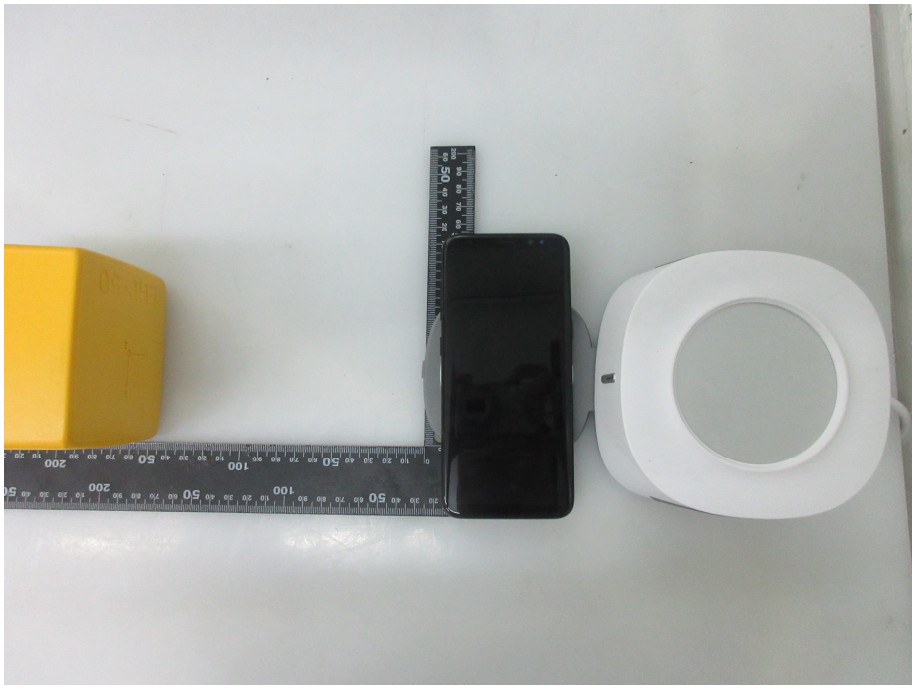
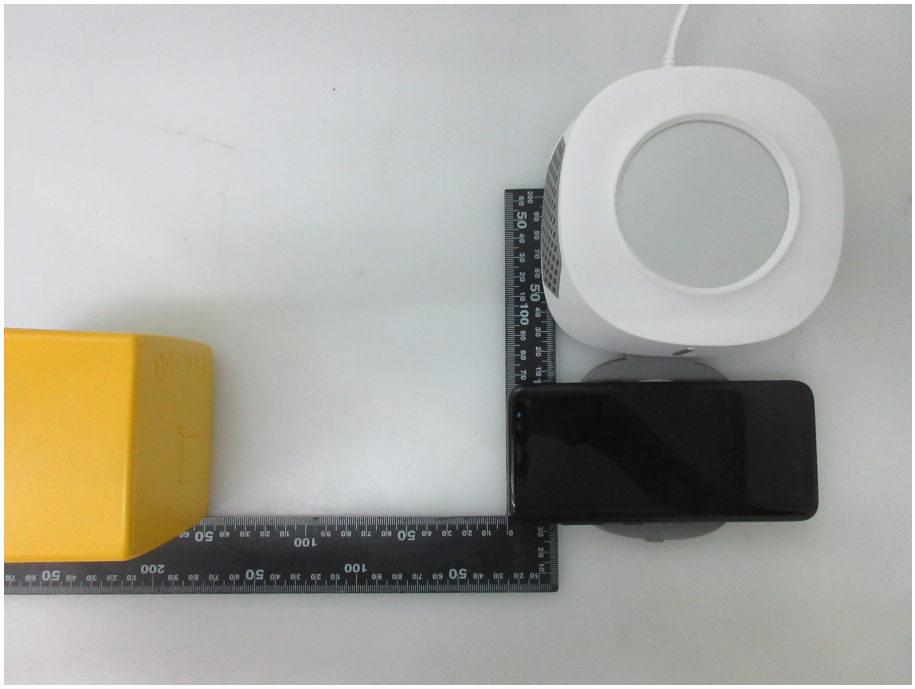
Side 3



Side 4



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8 Photographs

8.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1905013293CR

--End of Report--

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