

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057

Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
Email:	ee.shenzhen@sgs.com

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Human Exposure Report

Application No.:	SZEM1801000454CR				
Applicant/ Manufacturer:	Case-Mate, Inc.				
Address of Applicant/ Manufacturer:	7000 Central Pkwy., Ste. 1050, Atlanta, Georgia 30328-4590, United States				
Factory:	Case-Mate, Inc.				
Address of Factory:	7000 Central Pkwy., Ste. 1050, Atlanta, Georgia 30328-4590, United States				
Equipment Under Test (EUT):				
EUT Name:	Wireless Power Pad with Stand				
Model No.:	CM037042, CM037040 🌲				
*	Please refer to section 3.2 of this report which indicates which model was actually tested and which were electrically identical.				
Trade Mark:	CALE-MATE cosempte CASE-MATE				
FCC ID:	2AAC4-CMPOWERPAD				
Standards:	47 CFR PART 1, Subpart I, Section 1.1310				
Date of Receipt:	2018-01-16				
Date of Test:	2018-01-23 to 2018-02-06				
Date of Issue:	2018-02-08				
Test Result :	Pass*				

* This report is just a test result base on the test method and limit requirement shown in the form on the second page. 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.



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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3 General Information

3.1 Details of E.U.T.

Power supply:	INPUT: DC 5V/2A; DC 9V/2A
	OUTPUT: DC 5V/1A; DC 9V/1.1A
Operation frequency:	117.6-170.2 kHz
Antenna type:	Inductive Loop Coil Antenna
Remark:	Tests were conducted in both loads and the worst case (DC 9V/1.1A) is
	reported only.

3.2 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
cement load	provided by client	DC 5V/1A	N/A
mobile phone	Samsung(provided by client)	Galaxy S7 edge	N/A
Power Supply	provided by client	DBS15Q	N/A

Remark:

Model No.: CM037042;CM037040

Only the model CM037042 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on housing color.

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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

3.4 Test Facility

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

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

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.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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 No.: 556682.

Industry Canada (IC)

The 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-3.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2018-06-10
2	Electric Field Meter	Schaffner	EMC20	EMC068	2018-03-27

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5 Test Results

5.1 RF Exposure test

Test Requirement:47 CFR PART 1, Subpart I, Section 1.1310Measurement Distance:10cm

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 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 Genera	I Population/Uncontrolle	d 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				

F=frequency in MHz

*=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).

5.1.1 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.

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5.1.2 Measurement Data

1: Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.2 Ω

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	30% Limit (V/m)
	Side 1	10	4.91	614	184.2
	Side 2	10	4.82	614	184.2
117.6-170.2	Side 3	10	5.46	614	184.2
kHz	Side 4	10	4.84	614	184.2
	Тор	10	6.31	614	184.2

Electric Field Emissions

Magnetic Field Emissions

Operation	Test	Test Distance	Probe Measure	Limit	30% Limit
frequency	Position	(cm)	Result (A/m)	(A/m)	(A/m)
	Side 1	10	0.0779	1.63	0.489
	Side 2	10	0.0866	1.63	0.489
117.6-170.2	Side 3	10	0.0831	1.63	0.489
kHz	Side 4	10	0.0871	1.63	0.489
	Тор	10	0.1450	1.63	0.489

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

Operation	- lest				Limit(V/m)/	
frequency	Positi on	(cm)	zero charge	intermediate charge	full charge	30%Limit(V/m)
	Side 1	10	4.61	4.86	3.69	614/184.2
	Side 2	10	4.52	4.89	3.30	614/184.2
117.6-170.2 kHz	Side 3	10	4.36	5.67	4.57	614/184.2
	Side 4	10	3.97	4.20	3.47	614/184.2
	Тор	10	5.70	5.57	5.23	614/184.2

Electric Field Emissions

Magnetic Field Emissions

Operation	Test	Test Distance	Probe Measure Result(A/m)			Limit(A/m)/
frequency	Positi on	(cm)	zero charge	intermediate charge	full charge	30%Limit(A/m)
	Side 1	10	0.0215	0.0188	0.0186	1.63/0.489
	Side 2	10	0.0222	0.0167	0.0150	1.63/0.489
117.6-170.2 kHz	Side 3	10	0.0265	0.0155	0.0195	1.63/0.489
KLIZ	Side 4	10	0.0173	0.0142	0.0186	1.63/0.489
	Тор	10	0.0337	0.0265	0.0323	1.63/0.489

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6 Photographs

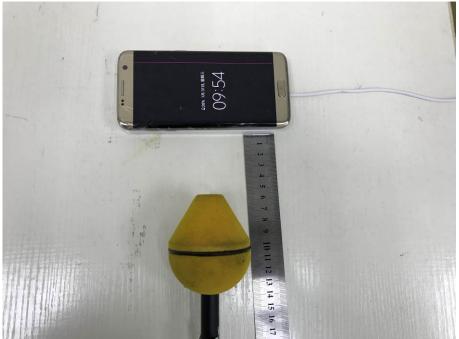
6.1 Test photos

Test with mobile phone

Side 1



Side 2



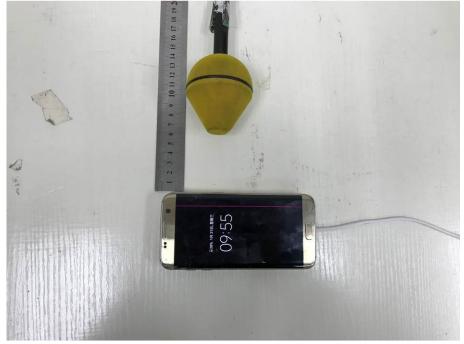
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Side 4

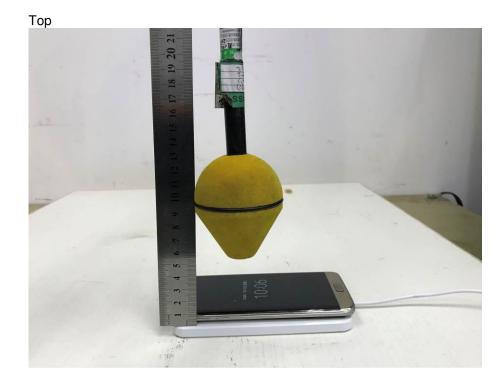


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Side 3



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- End of the Report -

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