



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

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Report No.: SZEM171101173102

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Human Exposure Report

Application No.: SZEM1711011731CR
Applicant/ Manufacturer: Shenzhen Reflying Electronic Co., Ltd.
Address of Applicant/ Manufacturer: 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an District, Shenzhen, Guangdong, China
Factory: Shenzhen Reflying Electronic Co., Ltd.
Address of Factory: 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Magmount QI Car Charger
Model No.: RCC71, CY2367ACVEN ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Please refer to section 2
FCC ID A7M-CY2367ACVEN
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2017-12-02
Date of Test: 2017-12-07 to 2017-12-19
Date of Issue: 2017-12-20

Test Result :	Pass*
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* 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.



Jack Zhang
EMC Laboratory Manager

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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2017-12-20		Original

Authorized for issue by:				
				
		Gray Gao /Project Engineer		
				
		Eric Fu /Reviewer		



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3 General Information

3.1 Details of E.U.T.

Rated input: DC 5V 2A
Rated output: DC 5V 1.5A
Operation frequency: 110-175kHz
Test voltage: DC 5V

3.2 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
Resistance	provided by SGS	3.33 ohm	N/A
Mobile phone	Apple	A1863	N/A

Remark:

Model No.: RCC71, CY2367ACVEN

Only the model CY2367ACVEN was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No.



3.3 Test Location

All tests were performed at:

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

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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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



5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
Measurement Distance: 10cm
Test voltage: DC 5V
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/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	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 no load, half load and full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



5.1.2 Measurement Data

1: Output Voltage=DC 5V; The max output current =1.5A;Calculation of resistor value=3.33Ω

Electric Field Emissions

Operation frequency (kHz)	Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	30% Limit (V/m)
119	Side 1	10	2.68	614	184.2
119	Side 2	10	2.70	614	184.2
119	Side 3	10	2.51	614	184.2
119	Side 4	10	2.87	614	184.2
119	Top	10	2.56	614	184.2
119	Bottom	10	2.31	614	184.2

Magnetic Field Emissions

Operation frequency (kHz)	Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	30% Limit (A/m)
119	Side 1	10	0.0064	1.63	0.489
119	Side 2	10	0.0055	1.63	0.489
119	Side 3	10	0.0059	1.63	0.489
119	Side 4	10	0.0060	1.63	0.489
119	Top	10	0.0059	1.63	0.489
119	Bottom	10	0.0049	1.63	0.489

Remark:

This device has been tested no load, half load and full load, only record the worst case of full load in report.



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

Electric Field Emissions

Operation frequency (kHz)	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			30%Limit (V/m)
			zero charge	intermediate charge	full charge	
119	Side 1	10	4.51	3.66	2.32	184.2
119	Side 2	10	8.11	7.95	7.59	184.2
119	Side 3	10	6.38	5.15	4.36	184.2
119	Side 4	10	8.18	7.53	6.91	184.2
119	Top	10	9.54	8.47	7.59	184.2
119	Bottom	10	8.12	7.49	6.86	184.2

Magnetic Field Emissions

Operation frequency (kHz)	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			30%Limit (A/m)
			zero charge	intermediate charge	full charge	
119	Side 1	10	0.0211	0.0164	0.0119	0.489
119	Side 2	10	0.0287	0.0253	0.0204	0.489
119	Side 3	10	0.0290	0.0189	0.0142	0.489
119	Side 4	10	0.0225	0.0212	0.0187	0.489
119	Top	10	0.0255	0.0198	0.0153	0.489
119	Bottom	10	0.0187	0.0143	0.0103	0.489