

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

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180400354502

Fax: +86 (0) 755 2671 0594 Page: 1 of 17

Human Exposure Report

Application No.: SZEM1804003545CR

Applicant/ Manufacturer: Huizhou Artsun Industrial Company Limited

Address of Applicant/ No.2, Floor 14th, Unit one, Ruihe Commercial Square, No.1 Yandayi

Manufacturer: Road, Henan'an District, Huizhou, 516007, China

Address of Factory: C BUILDING, QIANLI INDSUTRIAL AREA, SANDONG TOWN, HUIZHOU

HUIZHOU VOLANT ROC ELECTRONICS TECH CO.,LTD

CITY, GUANGDONG PROVINCE, CHINA

Equipment Under Test (EUT):

Factory:

EUT Name: GRAVITY PHONE HOLDER & WIRELESS CHARGER 2-IN-1 KIT

Model No.: VCW-502K

FCC ID: 2ALU4DX502A03

Trade Mark: AUTO DRIVE

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

Date of Receipt: 2018-05-21

Date of Test: 2018-05-24 to 2018-05-25

Date of Issue: 2018-06-01

Test Result : Pass*



Keny Xu 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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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM180400354502

Page: 2 of 17

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2018-06-01		Original				

Authorized for issue by:		
	larew	
	Leo Lai /Project Engineer	_
	EvicFu	
	Eric Fu /Reviewer	



Report No.: SZEM180400354502

Page: 3 of 17

2 Contents

		Page
1	COVER PAGE	1
2	CONTENTS	3
2	GENERAL INFORMATION	
3		
	3.1 DETAILS OF E.U.T.	
	3.2 DESCRIPTION OF SUPPORT UNITS	
	3.3 TEST LOCATION	
	3.4 TEST FACILITY	5
	3.6 ABNORMALITIES FROM STANDARD CONDITIONS	
4	EQUIPMENTS USED DURING TEST	6
5	TEST RESULTS	7
•	5.1 RF Exposure test	
	5.1.1 E.U.T. Operation 5.1.2 Measurement Data	/
6	PHOTOGRAPHS	14
	6.1 TEST WITH MOBILE PHONE WITH 5, 7, 9, 11, 13, 15CM MEASUREMENT DISTANCE	14
		1



Report No.: SZEM180400354502

Page: 4 of 17

3 General Information

3.1 Details of E.U.T.

Rated input: Input: 5V/2A, 9V/1.67A

Baseline Power Profile: 5W

Operation frequency: 110-148kHz
Antenna Type: Loop Antenna
Modulation type: Load modulation

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Huawei	HW-059200CHQ	N/A
Dummy load	E-Charging	N/A	N/A
Mobile phone	Samsung	G950F	N/A



Report No.: SZEM180400354502

Page: 5 of 17

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.



Report No.: SZEM180400354502

Page: 6 of 17

4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric Field Meter	Schaffner	EMC20	EMC068	2019-03-21



Report No.: SZEM180400354502

Page: 7 of 17

5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 5cm, 7cm, 9cm, 11cm, 13cm, 15cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
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	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l 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	1	1	f/1500	30
1500-100,000	1	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).

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 with the dummy load with 10%, 50% and 100% of the rating Current and the device has been tested with mobile phone at the battery <20%, 40~60%(intermediate charge) and >80% status.

^{*=}Plane-wave equivalent power density



Report No.: SZEM180400354502

Page: 8 of 17

5.1.2 Measurement Data

Output Voltage include DC 9V and DC 5V

Both voltages were tested during the testing and found that the data of DC 9V is the worse than the data of DC 5V, and the worst one data was show on the report.

Electric Field Emissions

<u>Licotific Ficial</u>						
Operation	Test Test		Probe N	500/ Line H/\ //re		
frequency (kHz)	Position	Distance(cm)	10% Current	50% Current	100% Current	50%Limit(V/m)
110	Side 1	5	5.29	9.72	11.19	307
110	Side 2	5	14.90	10.69	9.36	307
110	Side 3	5	11.46	15.22	15.50	307
110	Side 4	5	8.10	13.07	11.60	307
110	Тор	5	21.84	22.52	28.01	307
110	Bottom	5	20.21	14.39	15.95	307

Magnetic Field Emissions

Operation	Test Test		Probe N	50%Limit(A/m)		
frequency (kHz)	Position	Distance(cm)	10% Current	50%	100%	50%LIIIII(A/III)
(KI IZ)			1070 Current	Current	Current	
110	Side 1	5	0.0686	0.0673	0.0686	0.815
110	Side 2	5	0.0732	0.0698	0.0845	0.815
110	Side 3	5	0.0808	0.0525	0.0793	0.815
110	Side 4	5	0.0737	0.0540	0.0642	0.815
110	Тор	5	0.1086	0.1169	0.1113	0.815
110	Bottom	5	0.0814	0.0934	0.0962	0.815

Electric Field Emissions

LICCUIC I ICIG						
Operation	Test Test		Probe N	500/Line(1/) //nn)		
frequency (kHz)	Position	Distance(cm)	10% Current	50%	100%	50%Limit(V/m)
` '				Current	Current	
110	Side 1	7	3.56	5.43	6.31	307
110	Side 2	7	3.20	6.17	5.50	307
110	Side 3	7	6.57	8.80	3.96	307
110	Side 4	7	5.29	2.40	6.23	307
110	Тор	7	11.84	12.68	15.66	307
110	Bottom	7	10.90	7.87	9.37	307

Magnetic Field Emissions

magnotio i ion		I	1			1
Operation Test		Test	Probe N	500/ Line it/ A /co		
frequency (kHz)	Position	Distance(cm)	10% Current	50%	100%	50%Limit(A/m)
(10112)			1070 Garrent	Current	Current	
110	Side 1	7	0.0446	0.0421	0.0442	0.815
110	Side 2	7	0.0458	0.0439	0.0518	0.815
110	Side 3	7	0.0486	0.0346	0.0501	0.815
110	Side 4	7	0.0456	0.0342	0.0412	0.815
110	Top	7	0.0649	0.0722	0.0672	0.815
110	Bottom	7	0.0528	0.0564	0.0639	0.815

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Report No.: SZEM180400354502

Page: 9 of 17

Electric Field Emissions

Operation	Test Test		Probe N	F00/1 im it/\//m		
frequency (kHz)	Position	Distance(cm)	10% Current	50% Current	100% Current	50%Limit(V/m)
110	Side 1	9	2.85	3.31	3.42	307
110	Side 2	9	2.40	4.28	3.44	307
110	Side 3	9	4.27	5.47	2.32	307
110	Side 4	9	3.64	1.81	3.50	307
110	Тор	9	6.40	6.83	8.47	307
110	Bottom	9	6.11	4.24	5.96	307

Magnetic Field Emissions

Operation	Test Test		Probe N	500/1: :////		
frequency (kHz)	Position	Distance(cm)	10% Current	50% Current	100% Current	50%Limit(A/m)
110	Side 1	9	0.0298	0.0252	0.0287	0.815
110	Side 2	9	0.0275	0.0294	0.0313	0.815
110	Side 3	9	0.0324	0.0226	0.0330	0.815
110	Side 4	9	0.0272	0.0208	0.0269	0.815
110	Тор	9	0.0392	0.0438	0.0433	0.815
110	Bottom	9	0.0326	0.0339	0.0402	0.815

Electric Field Emissions

Operation Test		Test	Probe N	F00/1 : :t/\// \		
frequency (kHz)	Position	Distance(cm)	10% Current	50%	100%	50%Limit(V/m)
(KHZ)			10 % Current	Current	Current	
110	Side 1	11	1.76	2.03	2.35	307
110	Side 2	11	1.95	3.00	2.79	307
110	Side 3	11	2.68	2.96	1.95	307
110	Side 4	11	2.45	1.79	2.06	307
110	Тор	11	3.93	4.07	4.49	307
110	Bottom	11	3.67	2.90	3.18	307

Operation	Test	Test	Probe N			
frequency (kHz)	Position	Distance(cm)	10% Current	50% Current	100% Current	50%Limit(A/m)
110	Side 1	11	0.0177	0.0150	0.0188	0.815
110	Side 2	11	0.0166	0.0181	0.0205	0.815
110	Side 3	11	0.0203	0.0143	0.0196	0.815
110	Side 4	11	0.0179	0.0133	0.0180	0.815
110	Тор	11	0.0235	0.0272	0.0271	0.815
110	Bottom	11	0.0200	0.0208	0.0240	0.815



Report No.: SZEM180400354502

Page: 10 of 17

Electric Field Emissions

						1
Operation	Test	Test	Probe N	t(V/m)	F00/ Line it/\ //ne \	
frequency (kHz)	Position	Distance(cm)	10% Current	50%	100%	50%Limit(V/m)
(10112)			1070 Garrent	Current	Current	
110	Side 1	13	1.93	2.00	1.93	307
110	Side 2	13	1.82	1.78	1.82	307
110	Side 3	13	2.03	1.96	2.03	307
110	Side 4	13	1.82	1.86	1.82	307
110	Тор	13	2.43	2.50	2.53	307
110	Bottom	13	2.28	2.28	2.28	307

Magnetic Field Emissions

Operation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Test	Probe N	500/L::(/A/)		
frequency (kHz)		10% Current	50% Current	100% Current	50%Limit(A/m)	
110	Side 1	13	0.0079	0.0068	0.0084	0.815
110	Side 2	13	0.0079	0.0084	0.0094	0.815
110	Side 3	13	0.0089	0.0068	0.0089	0.815
110	Side 4	13	0.0079	0.0063	0.0084	0.815
110	Тор	13	0.0110	0.0121	0.0126	0.815
110	Bottom	13	0.0089	0.0094	0.0110	0.815

Electric Field Emissions

Operation -	Test	Test	Probe N	t(V/m)	F00/1 im it/\//m	
frequency (kHz)	Position	Distance(cm)	10% Current	50% Current	100% Current	50%Limit(V/m)
110	Side 1	15	1.02	1.06	1.02	307
110	Side 2	15	0.96	0.94	0.96	307
110	Side 3	15	1.08	1.04	1.08	307
110	Side 4	15	0.96	0.98	0.96	307
110	Тор	15	1.28	1.32	1.34	307
110	Bottom	15	1.21	1.21	1.21	307

wagnetic rier	laghetic Field Ethissions								
Operation	Test	Test	Probe N	F00/1 im it/A/m					
frequency	Position	Distance(cm)	100/ Current	50%	100%	50%Limit(A/m)			
(kHz)		, ,	10% Current	Current	Current				
110	Side 1	15	0.0034	0.0030	0.0037	0.815			
110	Side 2	15	0.0034	0.0037	0.0041	0.815			
110	Side 3	15	0.0039	0.0030	0.0039	0.815			
110	Side 4	15	0.0034	0.0027	0.0037	0.815			
110	Тор	15	0.0048	0.0053	0.0055	0.815			
110	Bottom	15	0.0039	0.0041	0.0048	0.815			



Report No.: SZEM180400354502

Page: 11 of 17

Tested with mobile phone at the battery <20%, 40~60%(intermediate charge) and >80% status.

Electric Field Emissions

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Operation	Test	Test	Probe	Probe Measure Result(V/m)			
frequency (kHz)	Position	Distance(cm)	<20% of battery	intermediate charge	>80% of battery	50%Limit(V/m)	
			Dattery	•	Dallery		
110	Side 1	5	20.74	23.68	20.02	307	
110	Side 2	5	9.42	18.13	13.83	307	
110	Side 3	5	11.37	13.81	16.21	307	
110	Side 4	5	12.24	17.66	9.79	307	
110	Тор	5	13.63	20.04	29.46	307	
110	Bottom	5	17.87	16.88	13.44	307	

Magnetic Field Emissions

Operation	Test Test		Probe	Probe Measure Result(A/m)			
frequency (kHz)	Position	Distance(cm)	<20% of battery	intermediate charge	>80% of battery	50%Limit(A/m)	
110	Side 1	5	0.1018	0.1024	0.0771	0.815	
110	Side 2	5	0.0752	0.0836	0.0623	0.815	
110	Side 3	5	0.0680	0.0643	0.0772	0.815	
110	Side 4	5	0.0616	0.0723	0.0551	0.815	
110	Тор	5	0.1334	0.1313	0.1181	0.815	
110	Bottom	5	0.0872	0.1174	0.1112	0.815	

Electric Field Emissions

Operation	Test Test		Probe	500/Line:H/\//n		
frequency	Position	Distance(cm)	<20% of	intermediate	>80% of	50%Limit(V/m)
(kHz)			battery	charge	battery	
110	Side 1	7	11.42	13.53	11.49	307
110	Side 2	7	5.54	9.68	8.57	307
110	Side 3	7	7.42	7.44	9.34	307
110	Side 4	7	7.07	9.52	6.23	307
110	Тор	7	7.26	11.31	14.16	307
110	Bottom	7	9.62	9.65	7.16	307

Magnotto i lon			1			
Operation	Test	Test	Probe	t(A/m)	500/ Line it/ A /ne	
frequency	Position	Distance(cm)	<20% of	intermediate	>80% of	50%Limit(A/m)
(kHz)		, ,	battery	charge	battery	
110	Side 1	7	0.0667	0.0668	0.0483	0.815
110	Side 2	7	0.0492	0.0530	0.0383	0.815
110	Side 3	7	0.0416	0.0426	0.0495	0.815
110	Side 4	7	0.0385	0.0459	0.0370	0.815
110	Тор	7	0.0803	0.0789	0.0709	0.815
110	Bottom	7	0.0520	0.0768	0.0694	0.815



Report No.: SZEM180400354502

Page: 12 of 17

Electric Field Emissions

	т	1	1			
Operation	Test	Test	Probe	F00/ Line it/\ //nn		
frequency (kHz)	Position	Distance(cm)	<20% of	intermediate	>80% of	50%Limit(V/m)
` '			battery	charge	battery	
110	Side 1	9	6.35	7.53	7.10	307
110	Side 2	9	2.97	6.16	2.11	307
110	Side 3	9	1.08	4.66	5.53	307
110	Side 4	9	4.47	5.82	4.02	307
110	Тор	9	4.02	6.20	7.58	307
110	Bottom	9	5.37	5.13	4.84	307

Magnetic Field Emissions

Operation	Test	Test	Probe			
frequency (kHz)	Position	Distance(cm)	<20% of battery	intermediate charge	>80% of battery	50%Limit(A/m)
110	Side 1	9	0.0426	0.0406	0.0313	0.815
110	Side 2	9	0.0319	0.0314	0.0228	0.815
110	Side 3	9	0.0269	0.0254	0.0329	0.815
110	Side 4	9	0.0246	0.0282	0.0227	0.815
110	Тор	9	0.0498	0.0526	0.0432	0.815
110	Bottom	9	0.0349	0.0457	0.0416	0.815

Electric Field Emissions

Operation frequency (kHz)	Test Position	Test Distance(cm)	Probe Measure Result(V/m) <20% of intermediate >80% of battery charge battery			50%Limit(V/m)
110	Side 1	11	3.59	4.39	4.05	307
110	Side 2	11	1.87	3.45	1.50	307
110	Side 3	11	1.45	2.90	3.50	307
110	Side 4	11	2.71	3.62	2.19	307
110	Тор	11	2.14	3.86	4.19	307
110	Bottom	11	2.91	3.75	2.67	307

Operation	Test	Test Test	Probe	FO9/Limit/A/m)		
frequency (kHz)	Position	Distance(cm)	<20% of	intermediate	>80% of	50%Limit(A/m)
(KHZ)			battery	charge	battery	
110	Side 1	11	0.0256	0.0249	0.0198	0.815
110	Side 2	11	0.0213	0.0205	0.0144	0.815
110	Side 3	11	0.0179	0.0161	0.0206	0.815
110	Side 4	11	0.0155	0.0177	0.0144	0.815
110	Тор	11	0.0319	0.0350	0.0289	0.815
110	Bottom	11	0.0215	0.0298	0.0264	0.815



Report No.: SZEM180400354502

Page: 13 of 17

Electric Field Emissions

	т	1				
Operation	Test	st Test	Probe	500/ Line it/\ //ne\		
frequency (kHz)	Position	Distance(cm)	<20% of	intermediate	>80% of	50%Limit(V/m)
(10112)			battery	charge	battery	
110	Side 1	13	2.64	2.68	2.39	307
110	Side 2	13	1.93	1.89	1.64	307
110	Side 3	13	1.82	2.00	1.86	307
110	Side 4	13	2.03	2.11	1.89	307
110	Тор	13	2.18	2.89	2.46	307
110	Bottom	13	1.93	2.57	2.32	307

Magnetic Field Emissions

Operation	Test	Test	Probe			
frequency (kHz)	Position	Distance(cm)	<20% of battery	intermediate charge	>80% of battery	50%Limit(A/m)
110	Side 1	13	0.0121	0.0115	0.0089	0.815
110	Side 2	13	0.0094	0.0094	0.0063	0.815
110	Side 3	13	0.0084	0.0073	0.0094	0.815
110	Side 4	13	0.0073	0.0079	0.0068	0.815
110	Тор	13	0.0141	0.0157	0.0136	0.815
110	Bottom	13	0.0094	0.0131	0.0126	0.815

Electric Field Emissions

Operation frequency (kHz)	Test Position	Test Distance(cm)	Probe Measure Result(V/m) <20% of intermediate >80% of battery charge battery			50%Limit(V/m)
110	Side 1	15	1.40	1.42	1.27	307
110	Side 2	15	1.02	1.00	0.87	307
110	Side 3	15	0.96	1.06	0.98	307
110	Side 4	15	1.08	1.11	1.00	307
110	Тор	15	1.15	1.53	1.30	307
110	Bottom	15	1.02	1.36	1.23	307

Operation frequency (kHz)	Test Position	Test Distance(cm)	Probe Measure Result(A/m) <20% of intermediate >80% of			50%Limit(A/m)
(11.12)			battery	charge	battery	
110	Side 1	15	0.0053	0.0050	0.0039	0.815
110	Side 2	15	0.0041	0.0041	0.0027	0.815
110	Side 3	15	0.0037	0.0032	0.0041	0.815
110	Side 4	15	0.0032	0.0034	0.0030	0.815
110	Тор	15	0.0062	0.0069	0.0060	0.815
110	Bottom	15	0.0041	0.0057	0.0055	0.815



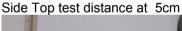
Report No.: SZEM180400354502

14 of 17 Page:

Photographs 6

6.1 Test with mobile phone with 5, 7, 9, 11, 13, 15cm measurement distance

Test Block (6 sides) Slide 2 Тор **Test Equipment** EUT Slide 3 Slide 1 Bottom

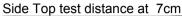




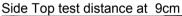


Report No.: SZEM180400354502

Page: 15 of 17









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Report No.: SZEM180400354502

16 of 17 Page:





Side Top test distance at 13cm



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Report No.: SZEM180400354502

Page: 17 of 17



- End of the Report -