

SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen Branch



Report No.: SZEM190201121102

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Human Exposure Report

Application No.: SZEM1902011211CR Applicant: Superior communications

Address of Applicant: 5027 Irwindale Ave. Suite, Irwindale Ave, California, 91706, United States

Manufacturer: SHENZHEN POWERQI TECHNOLOGY CO,. LTD

Address of Manufacturer: Floor 2, 3 building A4, Fangxing Science and Technology park, NO. 13

Baonan Road, Longgang street, Longgang District

SHENZHEN POWERQI TECHNOLOGY CO,. LTD Factory:

Address of Factory: Floor 2, 3 building A4, Fangxing Science and Technology park, NO. 13

Baonan Road, Longgang street, Longgang District

Equipment Under Test (EUT):

EUT Name: AT&T Motor Car Wireless Charger

Model No.: 06184 Trade mark: AT&T

FCC ID: YJW-06184

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

Date of Receipt: 2019-02-28

Date of Test: 2019-03-06 to 2019-03-19

Date of Issue: 2019-03-20

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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Revision Record							
Version	Version Chapter Date Modifier						
01		2019-03-20		Original			

Authorized for issue by:		
	Heory Ul	
	Harry Wu /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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2 General Information

2.1 Details of E.U.T.

Power supply: Input: DC5V,2A, DC9V,1.67A

Car Charger, Model:MDJ-27QC3.0

Input: DC 12-24V,

Output: DC 3.6-6V,3A, DC 6-9V,2A, DC 9-12V, 1.5A

Cable: USB cable: 40cm, Unshielded

Antenna Type: Loop Antenna Modulation Type: Load Modulation

Operation Frequency: 109.61kHz to 173.70kHz

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB	



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2.3 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.

2.4 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.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.



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3 Equipments Used during Test

Ite	em	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
	1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-05-09
	2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2019-05-06



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4 Test Results

4.1 RF Exposure test

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

Measurement Distance: 0/2/4/8/10/15cm

Test Voltage: DC5V/9V

Limit:

Frequency range (MHz)			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 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	/	/	f/1500	30				
1500-100,000	/	/	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).

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °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 load at zero charge, intermediate charge, and full charge.



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^{*=}Plane-wave equivalent power density



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4.1.2 Measurement Data

All three load modes were conducted and the worst case(10W) is reported only. 0CM

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value=8.1Ω **Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
	, ,	Side 1	4.39	307
136.3 kHz	0	Side 2	6.44	307
		Side 3	5.07	307
		Side 4	6.25	307
		Тор	5.81	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.2418	0.815
136.3 kHz	0	Side 2	0.3831	0.815
		Side 3	0.2905	0.815
		Side 4	0.3698	0.815
		Тор	0.3414	0.815



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

Electric Field Emissions

Operation	Test	Test	Probe	50%Limit		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(V/m)
	0	Side 1	4.92	4.56	4.14	307
		Side 2	6.87	6.61	6.13	307
132.6kHz		Side 3	5.51	5.17	4.63	307
		Side 4	6.7	6.32	5.85	307
		Тор	6.12	5.79	5.32	307

Magnetic Field Emissions

Operation Test		Test	Probe Measure Result(A/m)			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
	0	Side 1	0.2798	0.2408	0.1998	0.815
		Side 2	0.4351	0.4081	0.3531	0.815
132.6 kHz		Side 3	0.3385	0.3125	0.2665	0.815
		Side 4	0.4048	0.3748	0.3288	0.815
		Тор	0.3934	0.3664	0.3164	0.815



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2CM

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value= 8.1Ω Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
		Side 1	4.21	307
	2	Side 2	6.24	307
136.3 kHz		Side 3	4.88	307
		Side 4	6.07	307
		Тор	5.66	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.2289	0.815
	2	Side 2	0.3691	0.815
136.3 kHz		Side 3	0.2762	0.815
		Side 4	0.3506	0.815
		Тор	0.3265	0.815



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

Electric Field Emissions

Operation	Test	Test	Probe	50%Limit		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(V/m)
	(CIII)			_		
		Side 1	4.73	4.44	3.96	307
		Side 2	6.74	6.41	5.99	307
132.6kHz	2	Side 3	5.3	5.09	4.61	307
		Side 4	6.55	6.15	5.64	307
		Тор	5.97	5.76	5.29	307

Magnetic Field Emissions

Operation	Test	Test	Probe	50%Limit		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
		Side 1	0.2625	0.2278	0.1714	0.815
		Side 2	0.4041	0.3831	0.3241	0.815
132.6 kHz	2	Side 3	0.3152	0.2872	0.2262	0.815
		Side 4	0.3916	0.3526	0.2976	0.815
i		Тор	0.3715	0.3425	0.3025	0.815



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4CM

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value= 8.1Ω Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
	4	Side 1	4.05	307
		Side 2	6.07	307
136.3 kHz		Side 3	4.65	307
		Side 4	6.31	307
		Тор	5.39	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.2117	0.815
		Side 2	0.3553	0.815
136.3 kHz	4	Side 3	0.2659	0.815
		Side 4	0.3362	0.815
		Тор	0.3106	0.815



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

Electric Field Emissions

Operation	Test	Test	Probe	Probe Measure Result(V/m)		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	50%Limit (V/m)
		Side 1	4.53	4.32	3.86	307
		Side 2	6.51	6.25	5.78	307
132.6kHz	4	Side 3	4.96	4.67	4.14	307
		Side 4	6.45	5.99	5.52	307
		Тор	5.77	5.56	5.06	307

Magnetic Field Emissions

Operation	Test Test		Probe	Probe Measure Result(A/m)		
frequency	Distance (cm)	Position	osition zero in charge	intermediate charge	full charge	(A/m)
		Side 1	0.2593	0.2208	0.174	0.815
		Side 2	0.3925	0.3574	0.3119	0.815
132.6 kHz	4	Side 3	0.3079	0.2851	0.2433	0.815
		Side 4	0.3792	0.3552	0.3027	0.815
		Тор	0.3516	0.3149	0.2561	0.815



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6CM

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value=8.1Ω **Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
	6	Side 1	3.82	307
		Side 2	5.83	307
136.3 kHz		Side 3	4.48	307
		Side 4	5.74	307
		Тор	5.12	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.1992	0.815
	6	Side 2	0.3416	0.815
136.3 kHz		Side 3	0.2485	0.815
		Side 4	0.3281	0.815
		Тор	0.3025	0.815



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

Electric Field Emissions

Operation	Test	Test	Probe	t(V/m)	50%Limit	
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(V/m)
		Side 1	4.18	3.84	3.32	307
		Side 2	6.16	5.85	5.39	307
132.6kHz	6	Side 3	4.87	4.46	3.95	307
		Side 4	6.12	5.73	5.36	307
		Тор	5.47	5.25	4.71	307

Magnetic Field Emissions

Operation	Test	Test	Probe	Probe Measure Result(A/m)			
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	50%Limit (A/m)	
		Side 1	0.2478	0.2164	0.162	0.815	
		Side 2	0.3926	0.3713	0.3055	0.815	
132.6 kHz	6	Side 3	0.2945	0.2705	0.2249	0.815	
		Side 4	0.3741	0.3456	0.2848	0.815	
		Тор	0.3477	0.3251	0.2692	0.815	



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8CM

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value= 8.1Ω Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
		Side 1	3.54	307
	8	Side 2	5.61	307
136.3 kHz		Side 3	4.14	307
		Side 4	5.46	307
		Тор	4.87	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.1879	0.815
		Side 2	0.3274	0.815
136.3 kHz	8	Side 3	0.2322	0.815
		Side 4	0.3165	0.815
		Тор	0.2814	0.815



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

Electric Field Emissions

Operation Test		Test	Probe	Measure Resul	50%Limit	
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(V/m)
		Side 1	4.07	3.83	3.39	307
		Side 2	6.03	5.65	5.23	307
132.6kHz	8	Side 3	4.56	4.31	3.87	307
		Side 4	5.76	5.43	4.91	307
		Тор	5.27	4.85	4.34	307

Magnetic Field Emissions

Operation	Test	Test	Probe Measure Result(A/m)			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
		Side 1	0.2257	0.1984	0.1357	0.815
		Side 2	0.3691	0.3432	0.2956	0.815
132.6 kHz	8	Side 3	0.2722	0.2483	0.1954	0.815
		Side 4	0.3677	0.3382	0.2786	0.815
		Тор	0.3187	0.2871	0.2373	0.815



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10CM

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value=8.1Ω **Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
	10	Side 1	3.26	307
		Side 2	5.01	307
136.3 kHz		Side 3	3.79	307
		Side 4	5.15	307
		Тор	4.43	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
	10	Side 1	0.1663	0.815
		Side 2	0.3178	0.815
136.3 kHz		Side 3	0.2198	0.815
		Side 4	0.3001	0.815
		Тор	0.2724	0.815



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

Electric Field Emissions

Operation Test		Test	Probe	Measure Resul	50%Limit	
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(V/m)
132.6kHz		Side 1	3.66	3.28	2.76	307
		Side 2	5.38	5.14	4.67	(V/m)
	10	Side 3	4.29	3.98	3.48	307
		Side 4	5.51	5.15	4.74	307
		Тор	4.92	4.58	4.13	307

Magnetic Field Emissions

Operation	Test	Test	Probe Measure Result(A/m)			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
132.6 kHz		Side 1	0.2141	0.1906	0.1258	0.815
		Side 2	0.366	0.3441		0.815
	10	Side 3	3 0.2554 0.2245	0.1763	0.815	
		Side 4	0.3371	0.3108	0.2584	0.815
		Тор	0.3004	0.2763	0.2174	0.815



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15CM

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value=8.1Ω **Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
		Side 1	1.98	307
	15	Side 2	3.68	307
136.3 kHz		Side 3	2.41	307
		Side 4	3.79	307
		Тор	3.38	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
	15	Side 1	0.1359	0.815
		Side 2	0.2792	0.815
136.3 kHz		Side 3	0.1827	0.815
		Side 4	0.2541	0.815
		Тор	0.2347	0.815



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

Electric Field Emissions

Operation			Test Probe Measure Result(V/			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(V/m)
132.6kHz		Side 1	2.36	2.14	1.71	307
		Side 2	4.13	3.82	3.29	307
	15	Side 3	2.79	2.57	2.09	307
		Side 4	4.16	3.91	3.51	307
		Тор	3.73	3.47	2.99	307

Magnetic Field Emissions

Operation	Test	Test	Probe Measure Result(A/m)			50%Limit
frequency	cy Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
		Side 1	0.1723	0.1418	0.0818	0.815
		Side 2	0.3309	0.3072	0.2502	0.815
132.6 kHz	15	Side 3	0.2281	0.1964	0.1317	0.815
		Side 4	0.3015	0.2772	0.2311	0.815
		Тор	0.2687	0.2462	0.1824	0.815



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5 Photographs- RF exposure Setup photos

Refer to RF Exposure Setup Photos.

- End of the Report -



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