

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180200132102

Fax: +86 (0) 755 2671 0594 Page: 1 of 15

TEST REPORT

Application No.: SZEM1802001321CR
Applicant: SCOSCHE Industries Inc.

Address of Applicant: 1550 Pacific Avenue, Oxnard, California, 93033, United States

Manufacturer: SCOSCHE Industries Inc.

Address of Manufacturer: 1550 Pacific Avenue, Oxnard, California, 93033, United States

Factory: SCOSCHE Industries Inc.

Address of Factory: 1550 Pacific Avenue, Oxnard, California, 93033, United States

Equipment Under Test (EUT):

EUT Name: QI 5W Charging Dock 5000mah

Model No.: PBQ5DK, PBQ5DKSG-SP, PBQ5DKWT-SP &

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: IKQPBQ5DK
Trade mark: SCOSCHE
Standard(s): 47 CFR Part 18

Date of Receipt: 2018-02-09

Date of Test: 2018-02-27 to 2018-03-02

Date of Issue: 2018-03-06

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.: SZEM180200132102

Page: 2 of 15

Revision Record									
Version	Chapter	Date	Modifier	Remark					
01		2018-03-06		Original					

Authorized for issue by:		
	Peter. Gang	
	Peter Geng /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



Report No.: SZEM180200132102

Page: 3 of 15

2 Test Summary

Radio Spectrum Matter Part									
Item	Standard	Method	Requirement	Result					
Conducted disturbance	47 CFR Part 18	FCC MP-5	Part 18.307	Pass					
Radiated emission	47 CFR Part 18	FCC MP-5	Part 18.305	Pass					

Remark:

Model No.: PBQ5DK, PBQ5DKSG-SP, PBQ5DKWT-SP

Only the model PBQ5DK 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.



Report No.: SZEM180200132102

Page: 4 of 15

3 Contents

	Paç	је
1	COVER PAGE	1
2	TEST SUMMARY	. 3
3	CONTENTS	. 4
4	GENERAL INFORMATION	. 5
	4.1 DETAILS OF E.U.T	5 5 6
5	EQUIPMENT LIST	. 7
6	RADIO SPECTRUM MATTER TEST RESULTS	. 8
	6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz). 6.1.1 E.U.T. Operation 6.1.2 Test Setup Diagram 6.1.3 Measurement Data 6.2 RADIATED EMISSIONS (MAGNETIC FIELD STRENGTH) (9kHz-30MHz) 6.2.1 Measurement Data 6.2.2 E.U.T. Operation 6.2.3 Test Setup Diagram 6.2.4 Measurement Procedure and Data	8 8 .11 .11 .11
7	PHOTOGRAPHS	15
	 7.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz) TEST SETUP. 7.2 RADIATED EMISSION TEST SETUP. 	



Report No.: SZEM180200132102

Page: 5 of 15

4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC 5V/2A; DC 9V/1.67A from TYPE C port or docking station
	Wireless output: 5W, 10W;
	USB output: DC 5V, 2.4A
	Power supply information,
	MODEL: DBS15Q
	INPUT: AC 100-240V, 50/60Hz
	OUTPUT: DC 5V/2A; DC 9V/2A; DC 12V/1.5A
Cable:	USB line attached in Docking station: 100cm, unshielded
	TYPE C USB charging line: 100cm, unshielded
Operation frequency:	111.2-183.3kHz
Antenna type:	Inductive Loop Coil Antenna
Modulation type:	Load modulation
Remark:	Tests were conducted in both loads and the worst case (DC 9V/1.1A) is reported only.

4.2 Description of Support Units

Description	Description Manufacturer		Serial No.	
mobile phone	Samsung	Galaxy S6 Edge+	N/A	
Cement resistor	Supplied by SGS	REF. No.SEA0600	REF. No.SEA0600	

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	7.25 x 10 ⁻⁸		
2	Duty cycle	0.37%		
3	Occupied Bandwidth	3%		
4	RF conducted power	0.75dB		
5	RF power density	2.84dB		
6	Conducted Spurious emissions	0.75dB		
_	DE Dadiated news	4.5dB (below 1GHz)		
7	RF Radiated power	4.8dB (above 1GHz)		
8	Dedicted Chamiers emission test	4.5dB (Below 1GHz)		
8	Radiated Spurious emission test	4.8dB (Above 1GHz)		
9	Temperature test	1 ℃		
10	Humidity test	3%		
11	Supply voltages	1.5%		
12	Time	3%		



Report No.: SZEM180200132102

Page: 6 of 15

4.4 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.

4.5 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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM180200132102

Page: 7 of 15

5 Equipment List

RE in Chamber									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy- mm-dd)	Cal. Due date (yyyy-mm-dd)				
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2017-05-10	2018-05-09				
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2017-04-14	2018-04-13				
Trilog-Broadband Antenna (30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28				
Pre-amplifier (9kHz-1GHz)	Sonoma Instrument Co	310N	SEM005-04	2017-06-05	2018-06-04				
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM029-01	2017-07-13	2018-07-12				

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-17			



Report No.: SZEM180200132102

Page: 8 of 15

6 Radio Spectrum Matter Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 150kHz to 30MHz

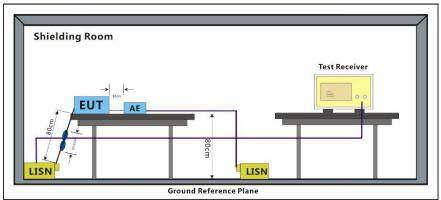
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 17.9 °C Humidity: 46.6 % RH Atmospheric Pressure: 1015 mbar

Test mode a:Charge mode_Keep the EUT charging

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

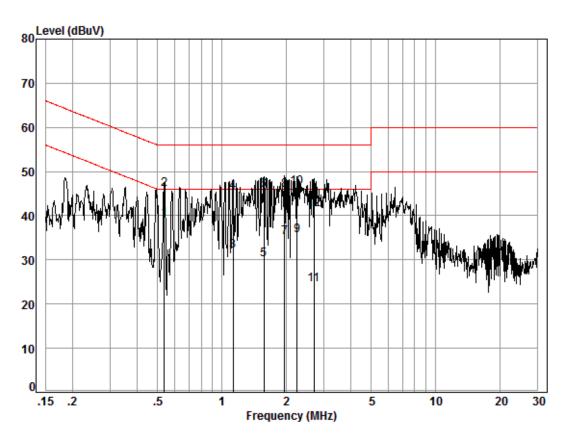
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



Report No.: SZEM180200132102

Page: 9 of 15

Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line
Job No. : 01321CR
Test mode: b S6

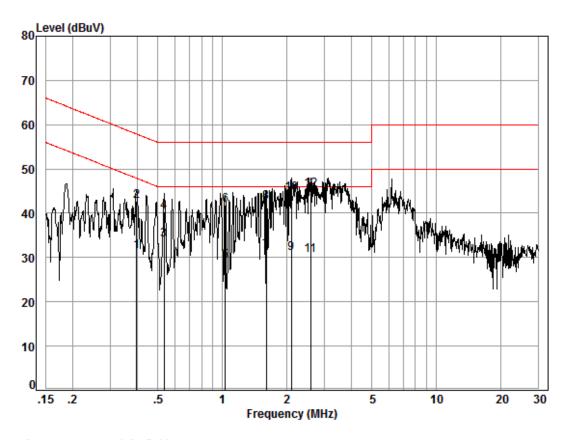
est	mode: D	30						
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.54	0.01	9.51	29.63	39.15	46.00	-6.85	Average
2	0.54	0.01	9.51	36.45	45.97	56.00	-10.03	QP
3	1.13	0.02	9.51	22.60	32.13	46.00	-13.87	Average
4	1.13	0.02	9.51	35.75	45.28	56.00	-10.72	QP
5	1.58	0.02	9.51	20.45	29.98	46.00	-16.02	Average
6	1.58	0.02	9.51	36.32	45.85	56.00	-10.15	QP
7	1.97	0.02	9.51	25.66	35.19	46.00	-10.81	Average
8	1.97	0.02	9.51	36.35	45.88	56.00	-10.12	QP
9	2.25	0.02	9.52	26.01	35.55	46.00	-10.45	Average
10	2.25	0.02	9.52	36.83	46.37	56.00	-9.63	QP
11	2.71	0.02	9.53	14.89	24.44	46.00	-21.56	Average
12	2.71	0.02	9.53	31.82	41.37	56.00	-14.63	QP



Report No.: SZEM180200132102

Page: 10 of 15

Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 01321CR Test mode: b S6

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.40	0.01	9.59	21.78	31.38	47.90	-16.52	Average
2	0.40	0.01	9.59	33.09	42.69	57.90	-15.21	QP
3	0.53	0.01	9.61	24.40	34.02	46.00	-11.98	Average
4	0.53	0.01	9.61	30.72	40.34	56.00	-15.66	QP
5	1.03	0.02	9.63	19.54	29.19	46.00	-16.81	Average
6	1.03	0.02	9.63	32.21	41.86	56.00	-14.14	QP
7	1.61	0.02	9.63	21.72	31.37	46.00	-14.63	Average
8	1.61	0.02	9.63	32.81	42.46	56.00	-13.54	QP
9	2.11	0.02	9.65	21.21	30.88	46.00	-15.12	Average
10	2.11	0.02	9.65	34.72	44.39	56.00	-11.61	QP
11	2.59	0.02	9.64	20.97	30.63	46.00	-15.37	Average
12	2.59	0.02	9.64	35.58	45.24	56.00	-10.76	QP



Report No.: SZEM180200132102

Page: 11 of 15

6.2 Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986

Frequency Range: 9kHz to 30MHz

Measurement Distance: 10m

6.2.1 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

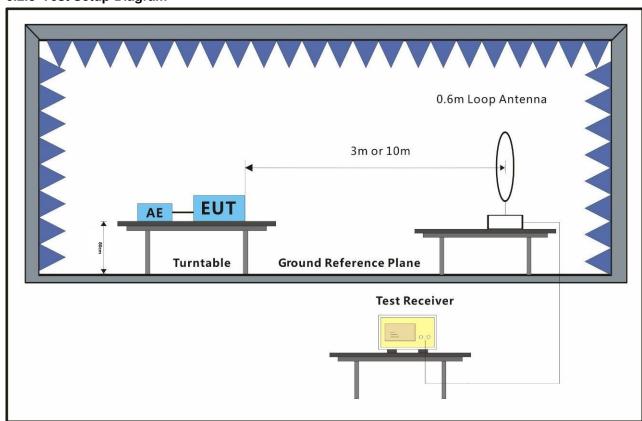
6.2.2 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1015 mbar

Test mode a:Charge mode_Keep the EUT charging

6.2.3 Test Setup Diagram



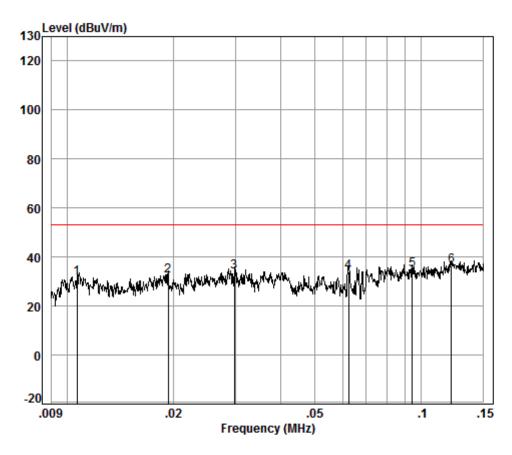
6.2.4 Measurement Procedure and Data



Report No.: SZEM180200132102

Page: 12 of 15

Model:a



Condition: 10m Job No. : 01321CR Test Mode: a Phone

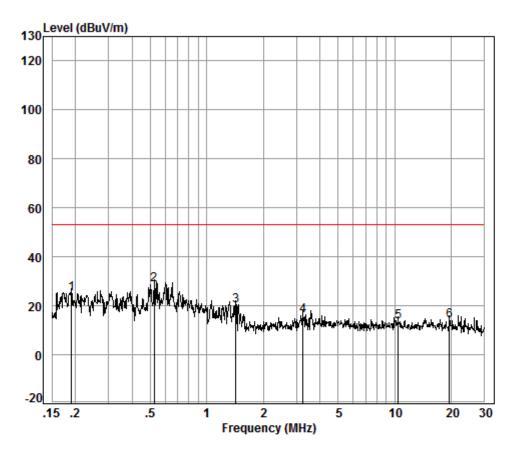
	_			Preamp				0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.01	0.28	18.89	0.00	12.35	31.52	53.06	-21.54
2	0.02	0.22	15.22	0.00	16.81	32.25	53.06	-20.81
3	0.03	0.18	13.88	0.00	19.77	33.83	53.06	-19.23
4	0.06	0.10	12.24	0.00	21.73	34.07	53.06	-18.99
5	0.09	0.06	12.02	0.00	22.75	34.83	53.06	-18.23
6 pp	0.12	0.06	11.85	0.00	24.67	36.58	53.06	-16.48



Report No.: SZEM180200132102

Page: 13 of 15

Model:a



Condition: 10m Job No. : 01321CR Test Mode: a Phone

		Cable	Ant	Preamp	Read		Limit	0ver				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB				
1	0.19	0.07	11.84	0.00	13.20	25.11	53.06	-27.95				
2 p	p 0.52	0.12	11.73	0.00	16.66	28.51	53.06	-24.55				
3	1.43	0.29	12.05	0.00	7.85	20.19	53.06	-32.87				
4	3.24	0.38	12.17	0.00	3.42	15.97	53.06	-37.09				
5	10.40	0.50	10.67	0.00	2.45	13.62	53.06	-39.44				
6	19.53	0.67	9.57	0.00	3.70	13.94	53.06	-39.12				



Report No.: SZEM180200132102

Page: 14 of 15

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_{300} / L_{10} = D_{10} / D_{300}$

Note:

 L_{300} : Level @ 300m distance. Unit: uV/m; L_{10} : Level @ 10m distance. Unit: uV/m;

 D_{300} : 300m distance. Unit: m D_{10} : 10m distance. Unit: m

The level at 300m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 300m (uV/m)	Level @ 300m (dBuV/m)	Limit @ 300m (dBuV/m)	Margin (dB)
0.01	31.52	37.67	1.26	1.98	23.52	-21.54
0.02	32.25	40.97	1.37	2.71	23.52	-20.81
0.03	33.83	49.15	1.64	4.29	23.52	-19.23
0.06	34.07	50.52	1.68	4.53	23.52	-18.99
0.09	34.83	55.14	1.84	5.29	23.52	-18.23
0.12	36.58	67.45	2.25	7.04	23.52	-16.48
0.19	25.11	18.01	0.60	-4.43	23.52	-27.95
0.52	28.51	26.64	0.89	-1.03	23.52	-24.55
1.43	20.19	10.22	0.34	-9.35	23.52	-32.87
3.24	15.97	6.29	0.21	-13.57	23.52	-37.09
10.40	13.62	4.80	0.16	-15.92	23.52	-39.44
19.53	13.94	4.98	0.17	-15.60	23.52	-39.12

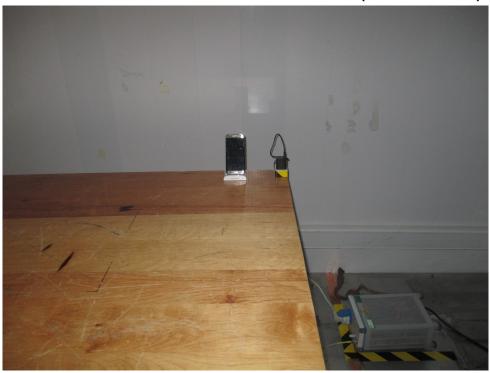


Report No.: SZEM180200132102

Page: 15 of 15

7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



7.2 Radiated emission Test Setup



- End of the Report -

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