TEST REPORT

Reference No. : WTS16S0960997E

FCC ID : 2AJVK-SP5513

Applicant.....: Foto Electric Supply Co., INC.

Address...... 1 Rewe St. Brooklyn, New York, 11211, USA

Manufacturer: The same as above

Address.....: The same as above

Product Name.....: Smart Phone

Model No. : SP5513, CBP3155

Brand.....: SLIDE,COBY

Standards : FCC PART15 SUBPART B: 2015

Date of Receipt sample : Sep. 19, 2016

Date of Test : Sep. 20 – Nov. 02, 2016

Date of Issue.....: Nov. 03, 2016

Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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oved by:

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1 Test Summary

Test Item	Test Requirement	Class	Test Method	Test Result
Power Line Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass
Radiated Emission 30MHz to 1GHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass
Radiated Emission (Above 1GHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass

Remark:

Pass Test item meets the requirement

Fail Test item does not meet the requirement N/A Test case does not apply to the test object

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3 Report Revision History

Report No.	Report Version	Description	Issue Date
WTS16S0960997E	NONE	Original	Nov. 03, 2016

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4 General Information

4.1 General Description of E.U.T.

Product Name: Smart Phone

Model No.: SP5513, CBP3155

Model Description: Only the model names and brand names are different.

GSM Band(s): GSM 850/900/1800/1900MHz

GPRS Class: 12

WCDMA Band(s): FDD Band IV/V

LTE Band(s): N/A

Wi-Fi Specification: 2.4G: 802.11b/g/n HT20 HT40

Bluetooth Version: Bluetooth v4.0 with BLE

GPS: Support

NFC: N/A

Hardware Version: AL_T5_MB_V20

Software Version: G556QW_20160622_v1.0.01_June

Storage Location: Internal Storage

Note: This EUT has two SIM card slots, and use same one RF module. We

found that RF parameters are the same, when we insert the card 1 and

card 2. So we usually performed the test under main card slot 1.

4.2 Details of E.U.T.

Technical Data: Battery DC 3.7V, 2000mAh

DC 5V, 1.0A, charging from adapter (Adapter Input: 100-240V~50/60Hz 0.2A

Adapter: Manufacture: XINYU EAGLETRON ELECTRONIC CO.LTD.

Model No.: SWN006S050100U1

4.3 Standards Applicable for Testing

The tests were performed according to following standards:

FCC PART 15, SUBPART B: Electronic Code of Federal Regulations- Unintentional Radiators 2015

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4.4 Test Facility

The test facility has a test site registered with the following organizations:

IC – Registration No.: 7760A-1

Waltek Services (Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A-1, October 15, 2015.

FCC Test Site 1# Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. 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 880581, April 29, 2014.

FCC Test Site 2# Registration No.: 328995

Waltek Services(Shenzhen) Co., Ltd. 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 328995, December 3, 2014.

4.5 Subcontracted

Whether parts	of tests for the product have been subcontracted to other labs:
☐ Yes If Yes, list the	☑ No related test items and lab information:
Test Lab:	N/A
Lab address:	N/A

4.6 Abnormalities from Standard Conditions

N/A

None.

Test items:

5 Equipment Used during Test

5.1 Equipment List

Condu	Conducted Emissions Test Site 1#							
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.12,2016	Sep.11,2017		
2.	LISN	R&S	ENV216	101215	Sep.12,2016	Sep.11,2017		
3.	Cable	Тор	TYPE16(3.5M)	-	Sep.12,2016	Sep.11,2017		
Condu	cted Emissions Test	Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.12,2016	Sep.11,2017		
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.12,2016	Sep.11,2017		
3.	Limiter	York	MTS-IMP-136	261115-001- 0024	Sep.12,2016	Sep.11,2017		
4.	Cable	LARGE	RF300	-	Sep.12,2016	Sep.11,2017		
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#								
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1	Spectrum Analyzer	R&S	FSP	100091	Apr.29, 2016	Apr.28, 2017		
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Apr.09,2016	Apr.08,2017		
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.09,2016	Apr.08,2017		
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	Sep.12,2016	Sep.11,2017		
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.09,2016	Apr.08,2017		
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.09,2016	Apr.08,2017		
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.13,2016	Apr.12,2017		
8	Coaxial Cable (above 1GHz)	Тор	1GHz-25GHz	EW02014-7	Apr.13,2016	Apr.12,2017		
9	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.13,2016	Apr.12,2017		
10	Signal Generator	R&S	SMR20	100046	Sep.12,2016	Sep.11,2017		
11	Smart Antenna	SCHWARZBECK	HA08	-	Apr.09,2016	Apr.08,2017		
12.	Universal Radio Communication Tester	R&S	CMW 500	127818	Apr.13,2016	Apr.12,2017		
3m Sei	Bm Semi-anechoic Chamber for Radiation Emissions Test site 2#							

Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Apr.13,2016	Apr.12,2017
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.09,2016	Apr.08,2017
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Apr.13,2016	Apr.12,2017
4	Cable	HUBER+SUHNER	CBL2	525178	Apr.13,2016	Apr.12,2017

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
MacBook Air	APPLE	A1465	C17KTQDNF5N7
	LPS DELTA		
Power Supply	ELECTRNICS	ADP-45GD	-
	UIANG CO,.LTD		

5.3 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±3.64dB	(1)
Dadiation Envisore	30MHz~1000MHz	±5.03dB	(1)
Radiation Emission	1GHz~18GHz	±5.47dB	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 Emission Test Results

6.1 Power Line Conducted Emission, 150kHz to 30MHz

Test Requirement: FCC PART 15, SUBPART B

Test Method : ANSI C63.4 2014

Test Result.....: Pass

Frequency Range : 150kHz to 30MHz

Class: Class B

Limit:

Fraguency (MHz)	Limit (dBµV)		
Frequency (MHz)	Quasi-peak	Average	
0.15 to 0.5	66 to 56*	56 to 46*	
0.5 to 5	56	60	
5 to 30	60	50	

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23°C

Humidity : 53.6%RH

Atmospheric Pressure: 101kPa

EUT Operation:

Input Voltage.....: DC 5V by PC

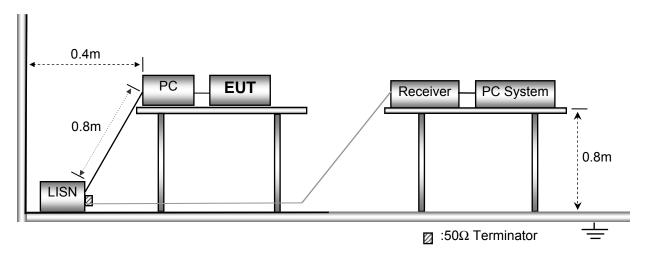
Operating Mode: Data transmitting mode, Earphone mode, Adapter mode

Remark : The worse case Data transmitting mode is under the condition of

AC 120V/60Hz adapter input and the data is shown as follow.

6.1.2 Block Diagram of Test Setup

The Mains Terminals Disturbance Voltage tests were performed in accordance with the ANSI C63.4.

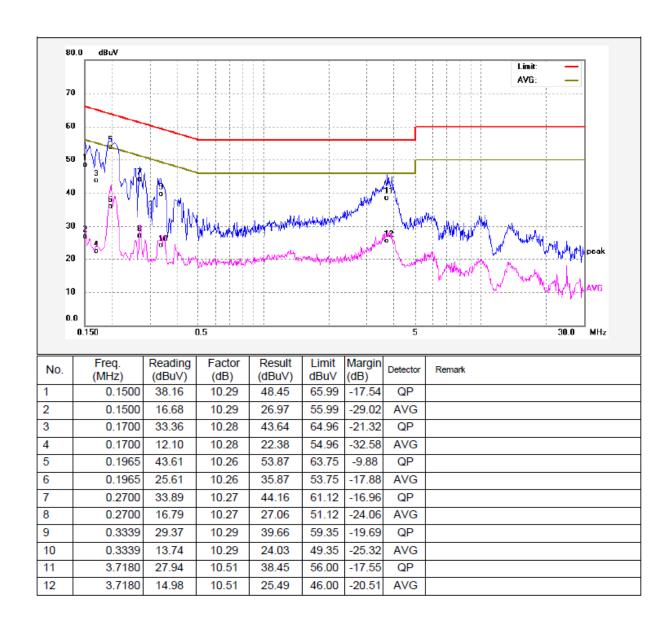


6.1.3 Measurement Data

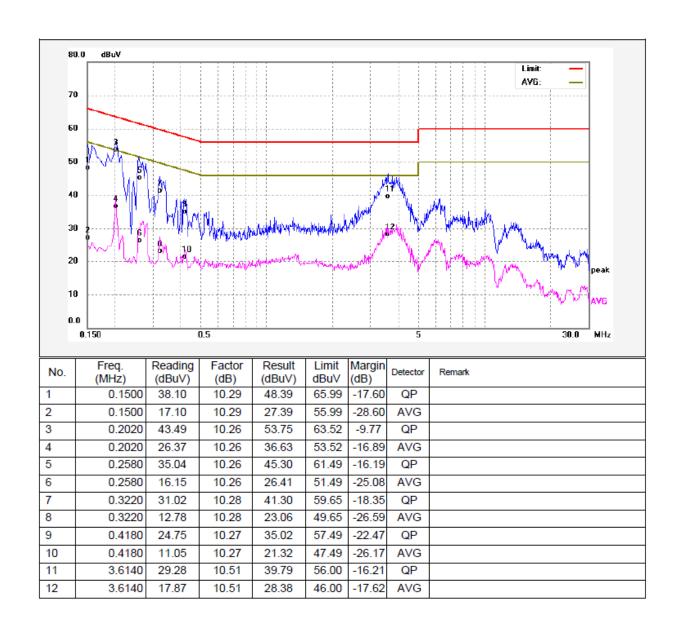
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in below section 6.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

6.1.4 Power Line Conducted Emission Test Data

Live Line:



Neutral Line:



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6.2 Radiation Emission, 30MHz to 1000MHz

Test Requirement: FCC PART 15, SUBPART B

Test Method : ANSI C63.4 2014

Test Result: Pass

Frequency Range: 30MHz to 1000MHz

Class B: Class B

Limit.....::

Fraguency (MHz)	Distance	Limit (dBµV/m)
Frequency (MHz)	(Meter)	Quas -peak
30 to 88	3	40
88 to 216	3	43.5
216 to 960	3	46
960 to 1000	3	54

6.2.1 E.U.T. Operation

Operating Environment:

 Temperature
 : 22.5°C

 Humidity
 : 52.6%RH

 Atmospheric Pressure
 : 101.2kPa

EUT Operation:

Input Voltage.....: DC 5V by PC

Operating Mode: Data transmitting with PC mode, Earphone mode, Adapter mode

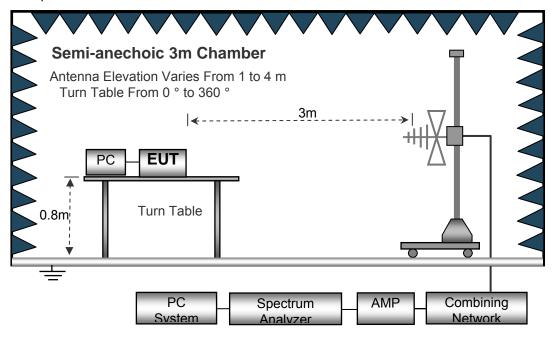
Remark: The worse case Data transmitting with PC mode is under the

condition of AC 120V/60Hz adapter input and the data is shown

as follow.

6.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

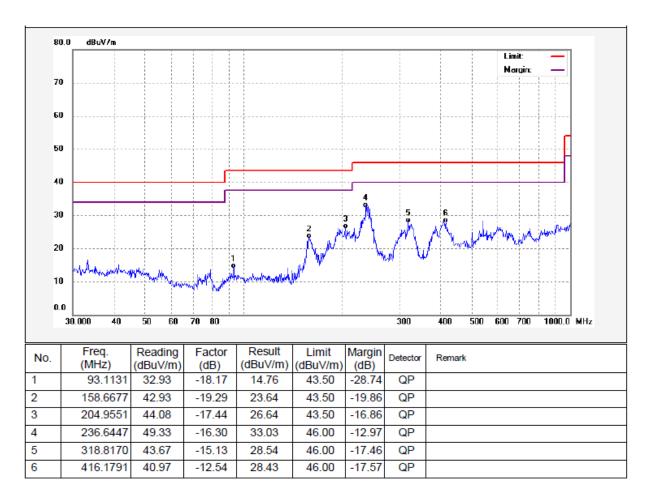


6.2.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

6.2.4 Radiated Emission Test Data, 30MHz to 1000MHz

Antenna Polarization: Vertical



Factor= antenna factor + cable loss - preamplifier factor

Result = Reading + Factor

Antenna Polarization: Horizontal dBuV/m 80.0 Limit: Margin: 70 60 50 40 30 20 10 0.0 30.000 60 70 80 300 400 600 700 1000.0 MHz Reading Freq. Factor Result Limit Margin Detector Remark No. (MHz) (dBuV/m) (dB) (dBuV/m) (dBuV/m) (dB) 76.5121 35.63 -20.77 14.86 40.00 QP 1 -25.14 2 164.3301 44.40 -18.88 25.52 43.50 -17.98 QP 3 -17.58 202.8104 48.58 31.00 43.50 -12.50 QP 4 54.54 -16.15 QP 239.9873 38.39 46.00 -7.61 5 321.0608 45.00 -15.05 29.95 46.00 -16.05 QP 6 387.9920 35.43 -13.00 22.43 46.00 -23.57 QP

Factor= antenna factor + cable loss - preamplifier factor
Result = Reading + Factor

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6.3 Radiation Emission, Above 1000MHz

Test Requirement: FCC PART 15, SUBPART B

Test Method : ANSI C63.4 2014

Test Result.....: Pass

Frequency Range: 1GHz~18GHz

Class B : Class B

Limit.

Frequency Range (MHz)	Distance (Meter)	Average Limit dB(uV/m)	Peak Limit (dBuV/m)
Above 1GHz	3	54	74

6.3.1 E.U.T. Operation

Operating Environment:

Temperature : 22.4°C
Humidity : 52.3%RH
Atmospheric Pressure : 101.3kPa

EUT Operation:

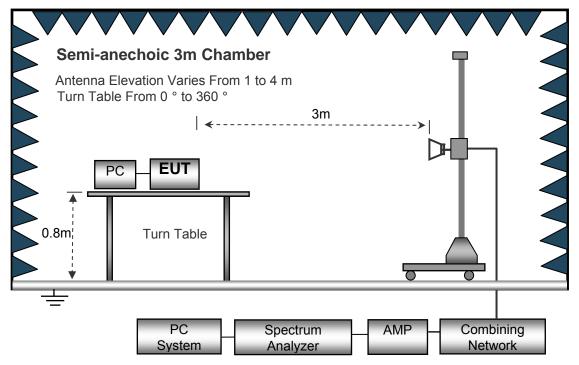
Input Voltage: DC 5V by PC

Operating Mode: Data transmitting with PC mode, Earphone mode, Adapter mode

AC 120V/60Hz adapter input and the data is shown as follow.

6.3.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

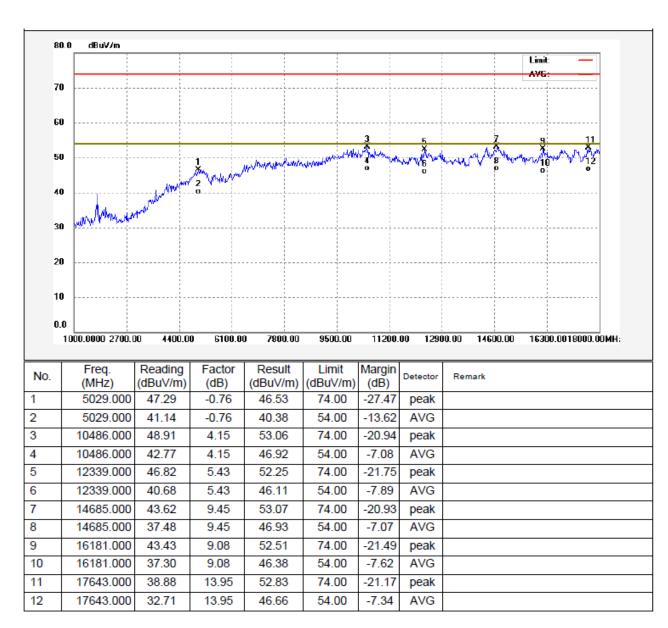


6.3.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Average measurements were performed if peak emissions were within 6dB of the average limit line

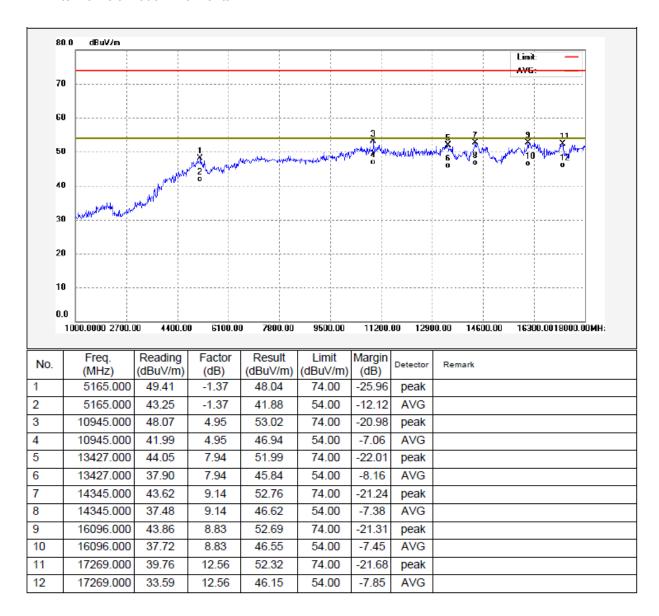
6.3.4 Radiated Emission Test Data, Above 1000MHz

Antenna Polarization: Vertical



Factor= antenna factor + cable loss - preamplifier factor Result = Reading + Factor

Antenna Polarization: Horizontal



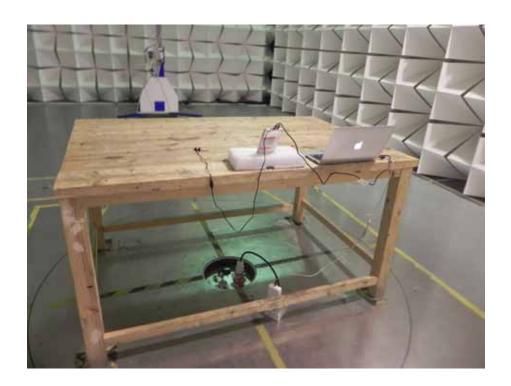
Factor= antenna factor + cable loss - preamplifier factor Result = Reading + Factor

7 Photographs – Test Setup FCC ID 2AJVK-SP5513

7.1 Photograph -Power Line Conducted Emission Test Setup at Test Site 1#



7.2 Photograph – Radiated Emission Test Setup for 30~1000MHz at Test Site 2#



7.3 Photograph – Radiated Emission Test Setup for Above 1GHz at Test Site 1#



=====End of Report=====