CCS Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS13100043802

FCC REPORT

Applicant: Shenzhen Ogemray Technology Co., Ltd.				
Address of Applicant:	3F~4/F, NO.5 Bldg, Dongwu Industrial Park, Donghuan 1st Road, Longhua Town, Shenzhen, China			
Equipment Under Test (E	EUT)			
Product Name:	Wireless USB Adapter			
Model No.:	GWF-7S7T			
FCC ID:	YWTWF76017ST			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B			
Date of sample receipt:	24 Oct., 2013			
Date of Test:	24 Oct., to 04 Nov., 2013			
Date of report issued:	05 Nov., 2013			
Test Result :	Pass *			

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

NANFAN

Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Version 2

Version No.	Date	Description
00	05 Nov., 2013	Original

Prepared by:

Shinbey Li Report Clerk

Date:

05 Nov., 2013

Reviewed by:

Joncent chen

Date:

05 Nov., 2013

Project Engineer

Project No.: CCIS131000438RF



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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	Pass
Radiated Emission	Part15.109	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	Shenzhen Ogemray Technology Co., Ltd.
Address of Applicant:	3F~4/F, NO.5 Bldg, Dongwu Industrial Park, Donghuan 1st Road, Longhua Town, Shenzhen, China
Manufacturer/Factory:	Shenzhen Ogemray Technology Co., Ltd.
Address of Manufacturer/ Factory:	3F~4/F, NO.5 Bldg, Dongwu Industrial Park, Donghuan 1st Road, Longhua Town, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Wireless USB Adapter	
Model No.:	GWF-7S7T	
Power supply:	DC 5V from USB port	

5.3 Test Mode

Operating mode	Detail description
Data exchange mode	Keep the EUT in data exchange with PC
polarities were performed. During	ove the ground plane of 3m chamber. Measurements in both horizontal and vertical g the test, each emission was maximized by: having the EUT continuously working, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst
position, manipulating interconne	cting cables, rotating the turntable, varying antenna height from 1m to 4m in both is. The emissions worst-case are shown in Test Results of the following pages.



FCC ID/DoC Manufacturer Description Model Serial Number DELL PC **OPTIPLEX745** N/A DoC DoC DELL MONITOR E178FPC N/A DELL **KEYBOARD** N/A DoC SK-8115 DELL MOUSE DoC MOC5UO N/A ΗP Printer CB495A 05257893 DoC MERCURY Wireless router **MW150R** 12922104015 FCC ID

5.4 Description of Support Units

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing 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 out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District,Shenzhen, Guangdong,China Tel: +86-755-23118282 Fax: +86-755-23116366



5.7 Test Instruments list

Radiated Emission:									
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2013	June 08 2014			
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014			
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014			
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014			
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014			
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014			
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014			
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014			
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014			
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014			
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014			
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014			
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A			
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A			
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2013	May. 24 2014			
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014			
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2012	Aug. 11 2013			
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014			
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014			

Cond	Conducted Emission:									
Item Test Equipment		Manufacturer	anufacturer Model No.		Cal.Date	Cal.Due date				
				No.	(mm-dd-yy)	(mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2013	June 08 2014				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2013	May. 24 2014				
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2013	Mar. 31 2014				
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014				



6 Test results and Measurement Data

6.1 Conducted Emission

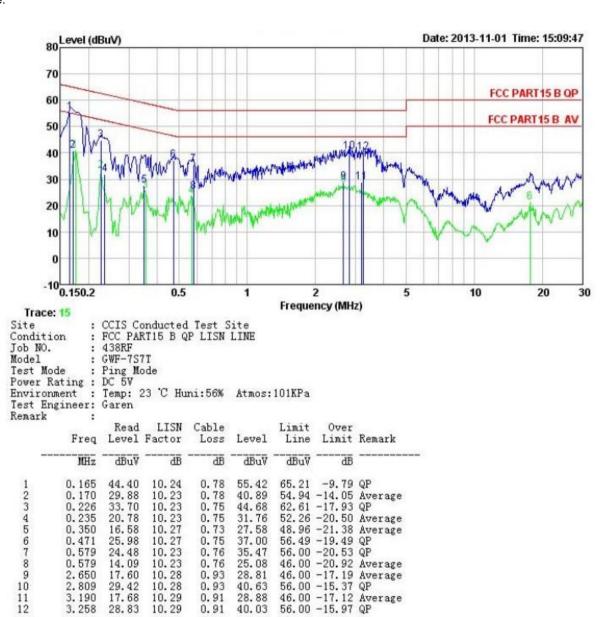
Test Requirement:	FCC Part15 B Section 15.107	FCC Part15 B Section 15.107					
Test Method:	ANSI C63.4:2003	ANSI C63.4:2003					
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz					
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Limit (dBµV)						
	Frequency range (MHz) Quasi-peak Average	ge					
	0.15-0.5 66 to 56* 56 to 4						
	0.5-5 56 46						
	0.5-30 60 50						
Test setup:	Reference Plane						
Test procedure	Image: Lish formula 40cm 80cm formula Image: AUX formula 40cm 80cm formula Image: AUX formula E.U.T Image: Filter formula Filter formula Remark: E.U.T Equipment Under Test LISN. Line impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are connected to the main power through a impedance stabilization network(L.I.S.N.). The provide a 50ohm/50ult impedance for the measuring equipment.						
	 The peripheral devices are also connected to the main power through that provides a 50ohm/50uH coupling impedance with 50ohm termina (Please refers to the block diagram of the test setup and photographs Both sides of A.C. line are checked for maximum conducted interfere order to find the maximum emission, the relative positions of equipment of the interface cables must be changed according to ANSI C63.4: 2000 	ition. 5). ence. In ent and all					
	conducted measurement.						
Test environment:	Temp.: 23 °C Humid.: 56% Press.: 1 01k	Pa					
Measurement Record:	Uncertainty: 3	.28dB					
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

CCIS

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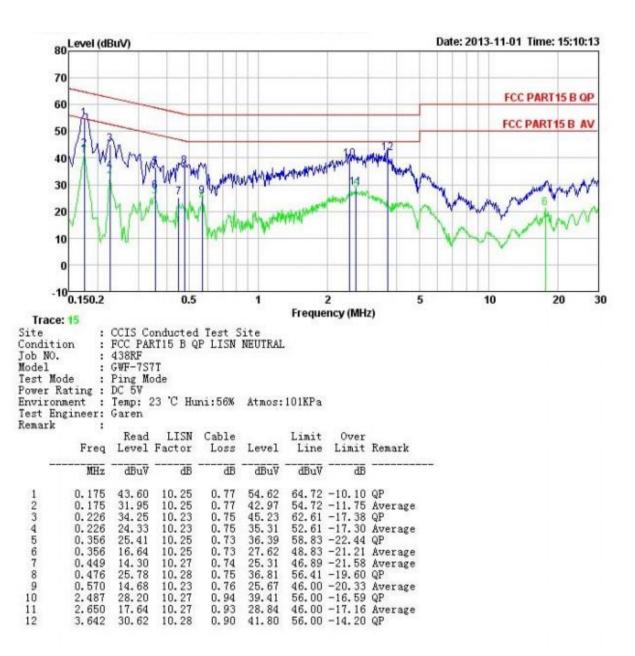
Measurement data:

Line:





Neutral:



Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



Test Requirement:	FCC Part15 B Se	ction 15,109						
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	30MHz to 1000MHz (The internal frequency of EUT less than 108 MHz)							
Test site:		Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak Value			
Lincite					Demerk			
Limit:	Freque 30MHz-8		Limit (dBuV/ 40.0		Remark Quasi-peak Value			
	88MHz-21		40.0		Quasi-peak Value			
	216MHz-9		46.0		Quasi-peak Value			
	960MHz-		54.0		Quasi-peak Value			
Test setup:	Below 1GHz							
Test Procedure:	 at a 3 meter se determine the 2. The EUT was was mounted of 3. The antenna h determine the polarizations of 4. For each suspitive antenna was table was turned 5. The test-receive Bandwidth with 6. If the emission specified, then be reported. O 	emi-anechoic can position of the h set 3 meters away on the top of a va- eight is varied fr maximum value f the antenna ar ected emission, as tuned to heigh ed from 0 degree ver system was so maximum Hold level of the EU ⁻ testing could be therwise the em	mber. The tab ighest radiatio ay from the int ariable-height om one meter of the field str e set to make the EUT was the EUT was the FOM 1 met es to 360 degr set to Peak De I Mode. T in peak mod e stopped and issions that dia	le was rotate n. erference-re antenna tow to four mete ength. Both I the measure arranged to i er to 4 mete ees to find th etect Function e was 10dB I the peak val d not have 10	ers above the ground to horizontal and vertical ement. ts worst case and then rs and the rotatable ne maximum reading.			

6.2 Radiated Emission

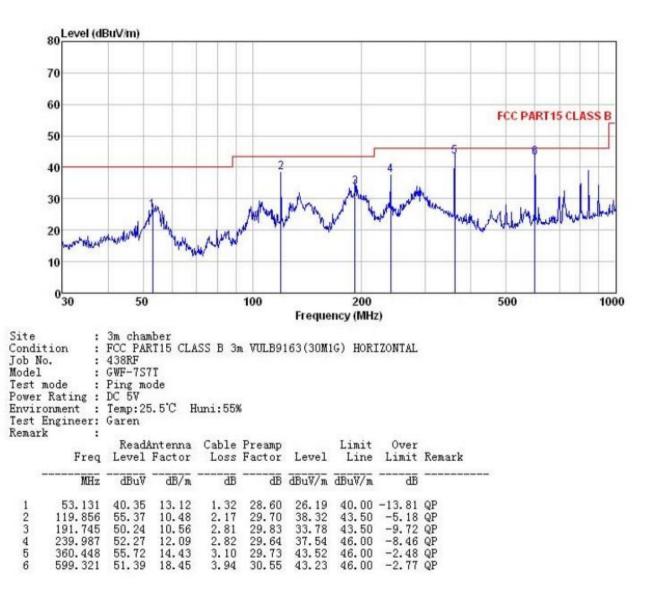


Test environment:	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa
Measurement Record:	Uncertainty: 4.88dB					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data

Below 1GHz

Horizontal:





Vertical:

