Report No: CCIS15040027504

FCC REPORT

Applicant: Shenzhen Wanchuangbo Industry Development Co., Ltd.

Address of Applicant:

Building 4, Dezhong Industry Park, No.7 Lipu Street,

Bantian, Longgang District Shenzhen, China

Equipment Under Test (EUT)

Product Name: Shenzhen Wanchuangbo Industry Development Co., Ltd.

Model No.: Building 4, Dezhong Industry Park, No.7 Lipu Street,

Bantian, Longgang District Shenzhen, China

Trade mark: iDeaUSA, VENSTAR

FCC ID: 2AAGR15M-01

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 30 Apr., 2015

Date of Test: 30 Apr., 2015 to 20 May., 2015

Date of report issued: 25 May., 2015

Test Result: Pass *

Authorized Signature:



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.

This report may only be reproduced and distributed in full. 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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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





2 Version

Version No.	Date	Description
00	25 May., 2015	Original

Prepared by: 25 May., 2015

Report Clerk

Reviewed by: Color Date: 25 May., 2015

Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	Pass		

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



5 General Information

5.1 Client Information

Applicant:	Shenzhen Wanchuangbo Industry Development Co., Ltd.
Address of Applicant:	Building 4, Dezhong Industry Park, No.7 Lipu Street, Bantian, Longgang District Shenzhen, China
Manufacturer:	Shenzhen Wanchuangbo Industry Development Co., Ltd.
Address of Manufacturer:	Building 4, Dezhong Industry Park, No.7 Lipu Street, Bantian, Longgang District Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Tablet PC
Model No.:	CT1080, CT1080X(X=A-Z), 8050, 8050X (X=A-Z)
Power supply:	Rechargeable Li-ion Battery DC3.7V-5500mAh
AC adapter :	Model: AW010WR-0500200UU Input:100-240V AC,50/60Hz 0.4A Output:5V DC MAX 2.0A
Remark	Model No.: CT1080,CT1080X(X=A-Z),8050,8050X(X=A-Z) were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being color and label.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+recording mode	Keep the EUT in Charging+recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



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5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	DELL MONITOR		N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE MOC5UO		N/A	DoC
HP	Printer	CB495A	05257893	DoC

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

Radia	Radiated Emission:								
Item	Test Equipment	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	08-23-2014	08-22-2017			
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016			
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016			
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
5	Amplifier HP (10kHz-1.3GHz)		8447D	CCIS0003	04-01-2015	03-31-2016			
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016			
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016			
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016			
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A			
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A			
11	Spectrum analyzer 9k-30GHz Rohde & Schwarz		FSP	CCIS0023	03-28-2015	03-28-2016			
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-28-2015	03-28-2016			
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016			
14	Universal radio communication tester		CMU200	CCIS0069	03-28-2015	03-28-2016			
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016			

Cond	Conducted Emission:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	11-10-2012	11-09-2015					
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016					
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016					
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016					



6 Test results and Measurement Data

6.1 Conducted Emission

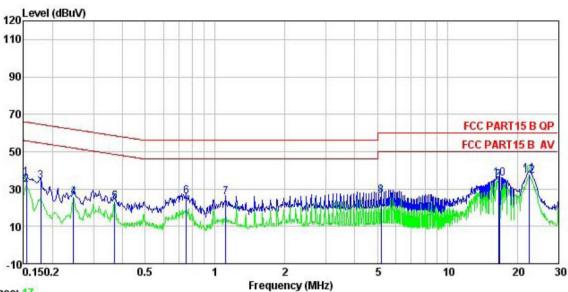
Test Requirement:	FCC Part 15 B Section 15.107								
Test Method:	ANSI C63.4:2009	ANSI C63.4:2009							
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz							
Class / Severity:	Class B	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz							
Limit:	Frequency range (MHz)	Limit	(dBµV)						
		Quasi-peak	Average						
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	0.5-30 * Decreases with the logarith	60	50						
Test setup:	Reference Plan	· · · · · ·							
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	Filter — AC po							
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). The pedance for the measure also connected to the ohm/50uH coupling imports to the block diagram are checked for maximum and the maximum emissing all of the interface care	ne provide a ring equipment. e main power through pedance with 50ohm of the test setup and m conducted sion, the relative lbles must be changed						
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 1 01kPa						
Measurement Record:		·	Jncertainty: 3.28dB						
Test Instruments:	Refer to section 5.7 for detail	ls							
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								





Measurement data:

Line:



Trace: 17 Site

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : Tablet PC : CT1080 Condition

EUT : CI1080

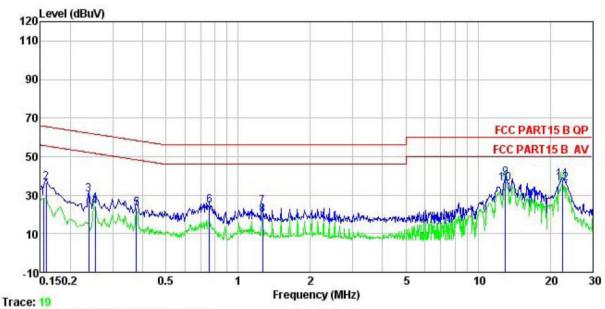
Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: GAREN
Remark :

Nesital K	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>d</u> B	dBu₹	dBu₹	<u>dB</u>	
1	0.154	25.11	0.27	10.78	36.16	65.78	-29.62	QP
1 2 3 4 5 6 7 8 9	0.154	21.21	0.27	10.78	32.26	55.78	-23.52	Average
3	0.178	23.02	0.28	10.77	34.07	64.59	-30.52	QP
4	0.246	14.42	0.27	10.75	25.44	51.91	-26.47	Average
5	0.369	11.99	0.27	10.73	22.99	48.52	-25.53	Average
6	0.751	15.01	0.23	10.79	26.03	56.00	-29.97	QP
7	1.111	14.46	0.25	10.88	25.59	56.00	-30.41	QP
8	5.194	15.24	0.30	10.84	26.38	50.00	-23.62	Average
9	16.573	23.59	0.33	10.91	34.83	50.00	-15.17	Average
10	16.750	24.39	0.33	10.91	35.63	60.00	-24.37	QP
11	22.416	26.77	0.43	10.90	38.10	60.00	-21.90	QP
12	22.535	25.63	0.44	10.89	36.96	50.00	-13.04	Average





Neutral:



Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : Tablet PC Condition

EUT : CT1080 Model

Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: GAREN

Remark

tomath	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	dB	₫B	dBu₹	dBu√	<u>dB</u>	
1	0.154	17.52	0.25	10.78	28.55	55.78	-27.23	Average
2	0.158	25.44	0.25	10.78	36.47	65.56	-29.09	QP
3	0.238	19.38	0.25	10.75	30.38	62.17	-31.79	QP
4	0.253	13.17	0.26	10.75	24.18	51.64	-27.46	Average
2 3 4 5 6 7 8 9	0.377	12.17	0.25	10.72	23.14	48.34	-25.20	Average
6	0.759	13.71	0.19	10.80	24.70	56.00	-31.30	QP
7	1.262	12.83	0.24	10.90	23.97	56.00	-32.03	QP
8	1.262	8.46	0.24	10.90	19.60	46.00	-26.40	Average
9	12.988	27.87	0.25	10.91	39.03	60.00	-20.97	QP
10	12.988	25.10	0.25	10.91	36.26	50.00	-13.74	Average
11	22.416	26.88	0.37	10.90	38.15	60.00	-21.85	QP
12	22.535	24.84	0.38	10.89	36.11	50.00	-13.89	Average

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:2009								
Test Frequency Range:	30MHz to 6000MHz								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency	Detec	ctor	RBW	VBW		Remark		
'	30MHz-1GHz	Quasi-	peak	120kHz 300kl		Hz	Quasi-peak Value		
	Above 1GHz	Pea		1MHz 3MH			Peak Value		
		Pea		1MHz	10⊢	lz	Average Value		
Limit:	Frequency		Limi	t (dBuV/m @	23m)		Remark		
	30MHz-88M			40.0			Quasi-peak Value		
	88MHz-216N			43.5			Quasi-peak Value		
	216MHz-960I			46.0			Quasi-peak Value		
	960MHz-1G	Hz	54.0			(Quasi-peak Value		
	Above 1GF	lz	54.0			Average Value			
				74.0			Peak Value		
Test setup:	Below 1GHz Antenna Tower Fr Test Receiver Ground Plane Above 1GHz Antenna Tower Antenna Tower								





Ī								
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.							
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.							
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.							
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							

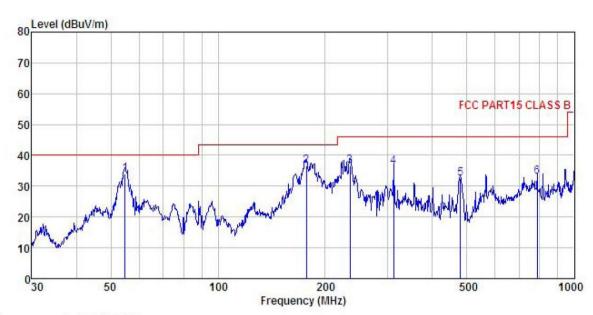




Measurement Data

Below 1GHz

Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
EUT : Tablet PC
Model : CT1080
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp: 25.5°C Huni: 55%
Test Engineer: Caren

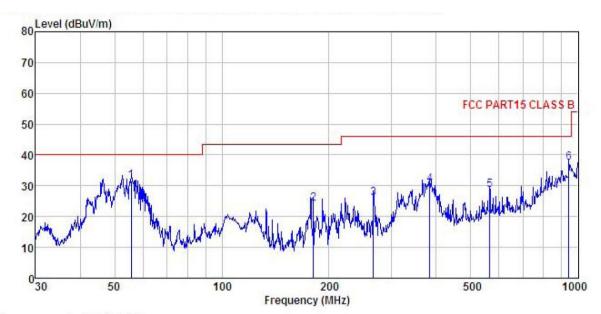
Test Engineer: Garen REMARK :

THEOTOR									
	-		Antenna				Limit	Over	2 7
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark
_	MHz	dBu∜	dB/m	₫B	₫B	dBuV/m	dBuV/m	dB	
1	54.835	50.13	13.05	0.65	29.80	34.03	40.00	-5.97	QP
2	176.888	54.82	9.49	1.35	29.00	36.66	43.50	-6.84	QP
	234.991	51.90	11.83	1.55	28.62	36.66	46.00	-9.34	QP
4	311.087	49.66	13.22	1.81	28.48	36.21	46.00	-9.79	QP
5	478.846	42.87	16.07	2.34	28.92	32.36	46.00	-13.64	QP
6	787.851	38.40	19.92	3.14	28.26	33.20	46.00	-12.80	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : Tablet PC : CT1080 Condition

EUT Model Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Garen REMARK :

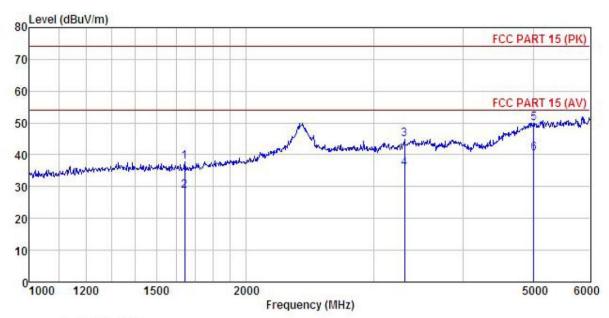
	Freq		Antenna Factor						Remark
_	MHz	dBu∜	dB/m	<u>db</u>	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	55.609	47.75	12.99	0.65	29.80	31.59	40.00	-8.41	QP
2	180.649	42.10	9.76	1.36	28.97	24.25	43.50	-19.25	QP
2 3 4	266.609	40.63	12.26	1.67	28.51	26.05	46.00	-19.95	QP
4	383.932	42.42	14.68	2.06	28.71	30.45	46.00	-15.55	QP
5	564.639	37.36	17.83	2.56	29.05	28.70	46.00	-17.30	QP
6	942.131	40.51	21.37	3.44	27.75	37.57	46.00	-8.43	QP





Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet PC Condition

EUT Model : CT1080 Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25°C Huni:55% Atmos:101Kpa

Test Engineer:

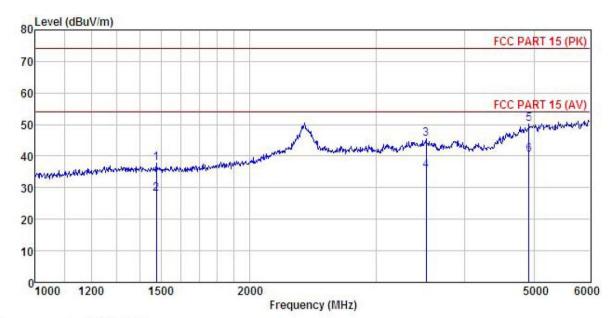
Remark

Chiarr		D 1		0.11	D		т :	A		
	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
2	MHz	dBu∇	<u>d</u> B/m	dB	d B	dBu√/m	dBuV/m			_
	Muiz	and v	and he	ш	ш	and w/ m	abav, m	ш.		
1	1642.661	49.78	24.86	4.23	40.97	37.90	74.00	-36.10	Peak	
2	1642.661	40.48	24.86	4.23	40.97	28.60	54.00	-25.40	Average	
3	3315.761	50.01	28.33	6.22	39.62	44.94		-29.06		
	3315.761	40.89	28.33	6.22	39.62	35.82			Average	
5	5006.774	49.03	31.85	9.12				-23.99		
6	5006.774	39.56	31.85	9.12	39.99	40.54	54.00	-13.46	Average	





Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet PC Condition

EUT Model : CT1080 Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25°C Huni:55% Atmos:101Kpa

Test Engineer: Remark :

mar.	к :									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBu∜	dB/m		<u>ab</u>	$\overline{dBuV/m}$	dBu√/m	<u>d</u> B		_
1	1477.873	49.61	25.35	3.85	40.95	37.86	74.00	-36.14	Peak	
2	1477.873	39.72	25.35	3.85	40.95	27.97	54.00	-26.03	Average	
3	3530.356	49.97	29.01	6.21	39.83	45.36	74.00	-28.64	Peak	
4	3530.356	40.17	29.01	6.21	39.83	35.56	54.00	-18.44	Average	
5	4917.863	49.53	31.61	9.02	40.10	50.06	74.00	-23.94	Peak	
6	4917.863	39.79	31.61	9.02	40.10	40.32	54.00	-13.68	Average	