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Fax: +86-755-22639141 Report No.: EBO1410040-E253

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TEST REPORT

Applicant: Shenzhen Firstview Electronic Co. Ltd.

Address of Applicant: 3-4/F, Block B, Huafeng 1st Technology Zone Baoan Main

Road, Baoan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: VTA1005XB, VTA1005XBS, PAD 10W4, M1041-A

FCC ID: YW5VTA1005XB

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2013

Date of sample receipt: October 24, 2014

Date of Test: October 24, 2014 To October 30, 2014

Date of report issue: October 30, 2014

Test Result: PASS *

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

Authorized Signature:

Kevin Yu 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 EBO 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. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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2 Version

Version No.	Date	Description
00	October 30, 2014	Original

Prepared By:	Jason	Date:	October 30, 2014
	Project Engineer		
Check By:	Canyo	Date:	October 30, 2014
	Reviewer		



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4 Test Summary

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

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



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5 General Information

5.1 Client Information

A a a P a a a f	Observation Florida - Florida de Oscilla			
Applicant:	Shenzhen Firstview Electronic Co. Ltd.			
Address of Applicant:	3-4/F, Block B, Huafeng 1st Technology Zone Baoan Main Road			
	Baoan District, Shenzhen, China			
Manufacturer:	Shenzhen Firstview Electronic Co., Ltd.			
Address of Manufacturer:	F3-6, Block B, Huafeng 1st Technology Zone, Baoan Main Road,			
	Baoan District, Shenzhen, P.R.China			

5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	VTA1005XB, VTA1005XBS, PAD 10W4, M1041-A
Test Model No.:	VTA1005XB
Power supply:	Adapter:
	Model:SJ-0920-E
	Input:100-240V~,50/60Hz, 0.5A max
	Output: 9V, 2000mA
	Or
	DC 3.7V Li-ion Battery

5.3 Test mode

Test mode:	
REC mode	Keep the EUT in REC mode
TF Card playing mode	Keep the EUT in TF Card playing mode
PC mode	Keep the EUT in data exchanging with PC mode
HDMI mode	Keep the EUT in HDMI mode
Test voltage:	
AC 120V/60Hz	



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5.4 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 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.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, July 20, 2010.

Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China



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5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
HP	Printer	CB495A	05257893	DoC
Apple	PC	A1278	C1MN99ERDTY3	DoC

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna. Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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6 Test Instruments list

Radia	Radiated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	Mar. 29 2014	Mar. 28 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	July 01 2014	June 30 2015
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	July 01 2014	June 30 2015
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	June 27 2014	June 26 2015
6	RF Amplifier	HP	8347A	GTS204	July 01 2014	June 30 2015
7	Preamplifier	HP	8349B	GTS206	July 01 2014	June 30 2015
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015
11	Thermo meter	N/A	N/A	GTS256	Mar. 29 2014	Mar. 28 2015

Con	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30 2015	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015	
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015



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7 Test Results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107			
Test Method:	ANSI C63.4:2003			
Test Frequency Range:	150KHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto		
Limit:	[[[]]] [] [] [] [] [] [] []	Limit (d	IBuV)	
	Frequency range (MHz) Quasi-peak Avera			
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
_	* Decreases with the logarithn	n of the frequency.		
Test setup:	Reference Plane		•	
	AUX Equipment E.U.T EMI Receiver Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m			
Test procedure:	The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.			
	 The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted 			
	interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.			
Test Instruments:	Refer to section 6 for details			
Test mode:	Refer to section 5.3 for details. All of the mode were tested and found the "PC mode" is the worst case. Only the data of worst case was reported.			
Test results:	Pass			

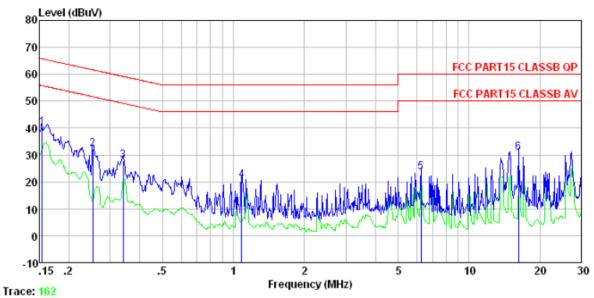


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Measurement Data

Test mode: PC mode	LINE
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Condition : FCC PART15 CLASSB QP LISN-2013 LINE

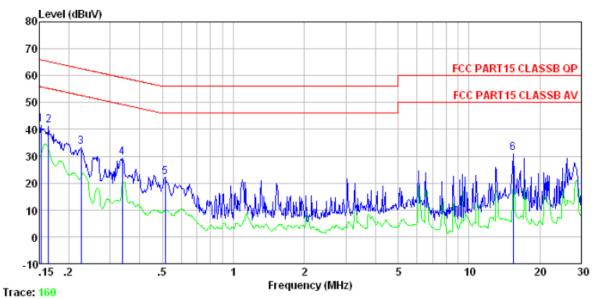
Test Engineer: Mike

	Freq		LISN Factor					Remark
	MHz	dBu₹	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0. 253 0. 341 1. 082	27. 74 20. 43 23. 08	0.13 0.23	0.11 0.10 0.13	32. 03 27. 95 20. 69 23. 47	61.64 59.18 56.00 60.00	-29. 61 -31. 23 -35. 31 -36. 53	QP QP QP QP



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Test mode: PC mode NEUTRAL



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Test Engineer: Mike

	Freq		LISN Factor			Limit Line	Over Limit	Remark
-	MHz	dBu∀	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5	0. 164 0. 226 0. 337 0. 513	33. 20 29. 22	0.07 0.06 0.06	0.12 0.10 0.11	41.33 33.38 29.38 22.27	65. 25 62. 61 59. 27 56. 00	-23. 92 -29. 23 -29. 89	QP QP QP QP

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



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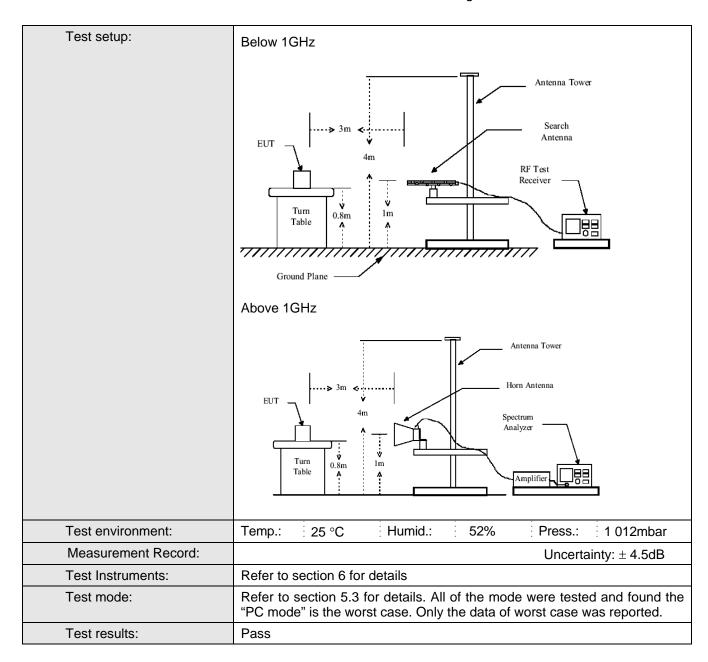
7.2 Radiated Emission

 radiated Ellission							
Test Requirement:	FCC Part15 B Section 15.109						
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	30MHz to 6GHz						
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver setup:	_		1	1			
	Frequency	Detector	RBW 120kHz	VBW	Remark		
	30MHz- 1GHz	30MHz- Quasi-peak 1GHz		300kHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
		Peak	1MHz	10Hz	Average Value		
Limit:	 	-1					
	Freque	•	Limit (dBuV		Remark		
	30MHz-8	8MHz	40.0	00	Quasi-peak Value		
	88MHz-2	16MHz	43.5	50	Quasi-peak Value		
	216MHz-9	60MHz	46.0	00	Quasi-peak Value		
	960MHz-	1GHz	54.0	00	Quasi-peak Value		
	Above 1GHz 54.00		Average Value				
	Above	OFIZ	74.0	00	Peak Value		
Test Procedure:	ground at a 3	•	er. The table	was rotated	0.8 meters above the 360 degrees to		
	2. The EUT wa antenna, whi tower.				nce-receiving ble-height antenna		
	ground to de	termine the m d vertical pola	aximum valu	e of the field	r meters above the d strength. Both are set to make the		
	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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.						
	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. This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at							



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Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



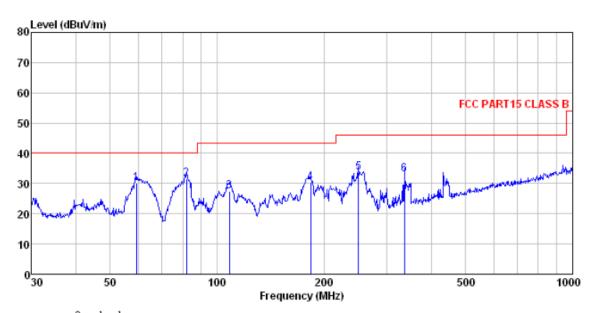
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Measurement Data

Below 1GHz

Test mode: PC mode	Ant Pol. Horizontal
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Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL Condition

Test Mode : PC mode Test Engineer: Qing

336.035

46.71

15.99

ReadAnt enna Cable Preamp Over Limit Loss Factor Level Freq Level Factor Line Limit Remark MHz dB/m ₫B dB dBuV/m dBuV/m 40.00 -9.88 QP 40.00 -8.45 QP 31.94 31.75 59.232 46.47 0.85 30.12 14.74 82.071 31.55 50.97 11.28 1.05 3 27.41 43.5614.39 31.80 43.50 -16.09 QP 108.267 1.26 43.50 -13.05 QP 4 183.201 48.87 11.92 1.75 32.09 30.45 49.75 2.12 2.55 5 249.425 14.07 32.16 33.78 46.00 -12.22 QP

32.07

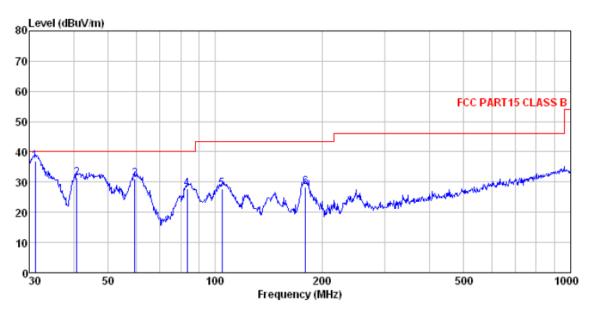
33.18

46.00 -12.82 QP



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Test mode: PC mode	Ant Pol. Vertical
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Site : 3m chamber

: FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL : PC mode Condition

Test Mode

Test Engineer: Qing

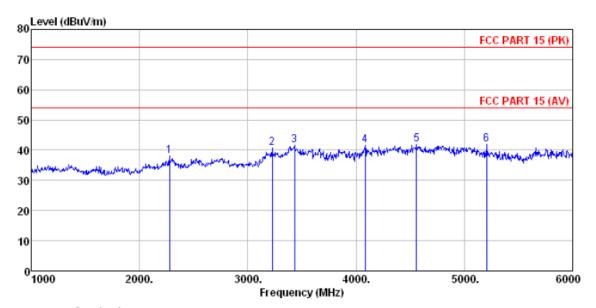
	Freq		Antenna Factor					Over Limit	Remark
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2 3 4 5	31. 180 40. 845 59. 441 83. 522 104. 536 179. 386	47.28 46.57 43.53	14.73 11.87 14.73	0.67 0.86 1.06 1.23	31.78	31.27 30.93 27.75 27.71	40.00 40.00 40.00 43.50	-8.73 -9.07 -12.25 -15.79	QP QP QP QP



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Above 1GHz

Test mode: PC mode	Ant Pol. Horizontal
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Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL Condition

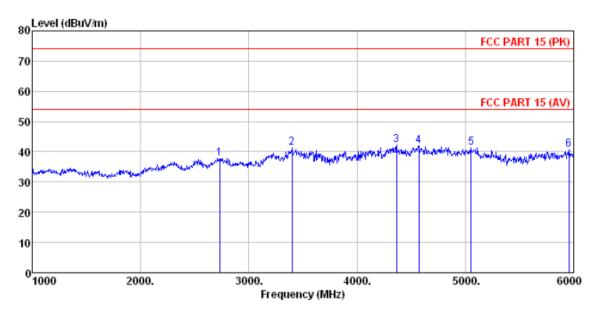
Test Mode : PC mode

est	Engineer:		Int enna	Cable	Preamn		Limit	Over	
	Freq		Factor						Remark
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2 3 4 5 6	2275.000 3225.000 3430.000 4085.000 4560.000 5205.000	34.13	28.72 29.86 31.44	7.95 8.39	33.06 32.83 32.09 31.96	38.06 40.72 41.58 41.51 42.00 41.97	74.00 74.00 74.00 74.00	-32.42 -32.49 -32.00	Peak Peak Peak Peak



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Test mode: PC mode Ant Pol. Vertica



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120D ANT (>1GHZ) VERTICAL

Test Mode : PC mode Test Engineer: Qing

ReadAntenna Cable Preamp Over Limit Freq Level Factor Loss Factor Level Line Limit Remark MHz dB dBuV/m dBuV/m dBuV dB/m 碅 ₫B 74.00 -36.12 Peak 74.00 -32.70 Peak 2730.000 37.61 28.21 33.63 37.88 3400.000 38.81 28.60 6.76 32.87 41.30 4365.000 34.97 30.97 8.22 31.87 42.29 74.00 -31.71 Peak 31.97 32.21 74.00 -31.99 Peak 74.00 -32.53 Peak 8.40 4 4570.000 34.11 31.47 42.01 32.00 8.85 5 5055.000 32.83 41.47 10.13 32.16 74.00 -33.27 Peak 5955.000 29.92 32.84 40.73

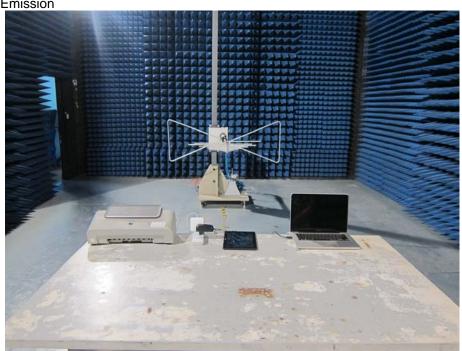


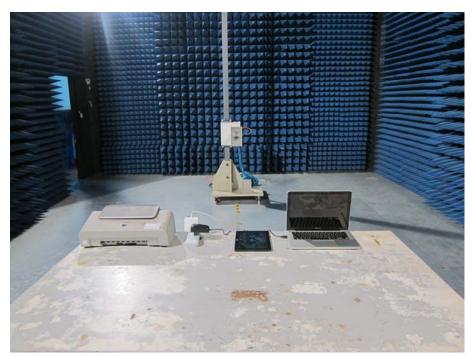
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8 Test Setup Photo

Radiated Emission







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Conducted Emission





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9 EUT Constructional Details

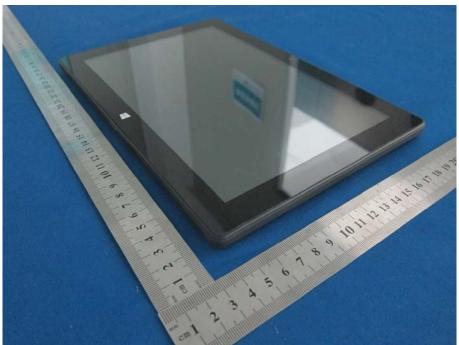






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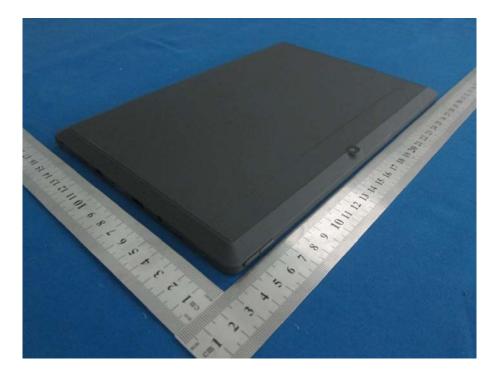






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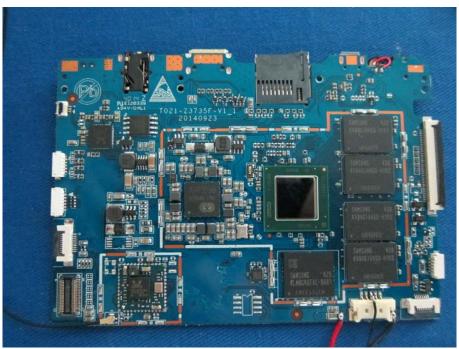




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