

Report No: CCISE161002302

FCC REPORT

Applicant:	APRIX LATINOAMERICA S.A.
Address of Applicant:	ADVANCED 099 BLDG SUITE 4 C CALLE BEATRIZ M DE CABAL PANAMA
Equipment Under Test (E	EUT)
Product Name:	TABLET PC
Model No.:	Aprix Tab64, Aprix Tab64_Konnen A10, Konnen A10, Tab64, A10,7ii, 8ii, 7.85ii, 9ii, 10ii, 13ii, X1, X2, X3, X4, X5, X6, X7, X8, X785, X9, X10, X13
Trade mark:	APRIX, KONNEN
FCC ID:	2AHJQ-A2016
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	13 Oct., 2016
Date of Test:	13 Oct., to 23 Oct., 2016
Date of report issued:	24 Oct., 2016
Test Result:	Pass *
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* In the configuration tested, the EUT complied with the standards specified above.

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.

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2 Version

Version No.	Date	Description
00	24 Oct., 2016	Original

Tested by:

Mike.0U Date:

24 Oct., 2016

Test Engineer

Reviewed by:

aver Open

Date:

24 Oct., 2016

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:	APRIX LATINOAMERICA S.A.
Address of Applicant:	ADVANCED 099 BLDG SUITE 4 C CALLE BEATRIZ M DE CABAL PANAMA
Manufacturer	Todos industrial limited
Address of Manufacturer:	Room 3A03, Block B, huashenghui, Xi'xiang Town, Bao'an District shenzhen China

5.2 General Description of E.U.T.

Product Name:	TABLET PC
Model No.:	Aprix Tab64, Aprix Tab64_Konnen A10, Konnen A10, Tab64, A10,7ii, 8ii, 7.85ii, 9ii, 10ii, 13ii, X1, X2, X3, X4, X5, X6, X7, X8, X785, X9, X10, X13
Power supply:	Rechargeable Li-ion Battery DC3.7V-7000mAh
AC adapter :	Model: BY120502000 Input: AC100-240V 50/60Hz 0.3A Output: DC 5.0V, 2A
Remark:	The No.: Aprix Tab64, Aprix Tab64_Konnen A10, Konnen A10, Tab64, A10,7ii, 8ii, 7.85ii, 9ii, 10ii, 13ii, X1, X2, X3, X4, X5, X6, X7, X8, X785, X9, X10, X13 are electrically identical, only difference is Model No.and housing color.

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
GPS mode	Keep the EUT in GPS 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.

5.4 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC

5.6 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.

5.7 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



5.8 Test Instruments list

Radia	ated Emission:					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-25-2016	03-25-2017
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2016	03-25-2017
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2016	03-31-2017
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2016	03-31-2017
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2016	03-28-2017
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2016	03-28-2017
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

Cond	Conducted Emission:					
ltem	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	08-23-2014	08-22-2017
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-24-2016	03-24-2017
3	LISN	CHASE	MN2050D	CCIS0074	03-26-2016	03-26-2017
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2016	03-31-2017
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A



6 Test results and Measurement Data

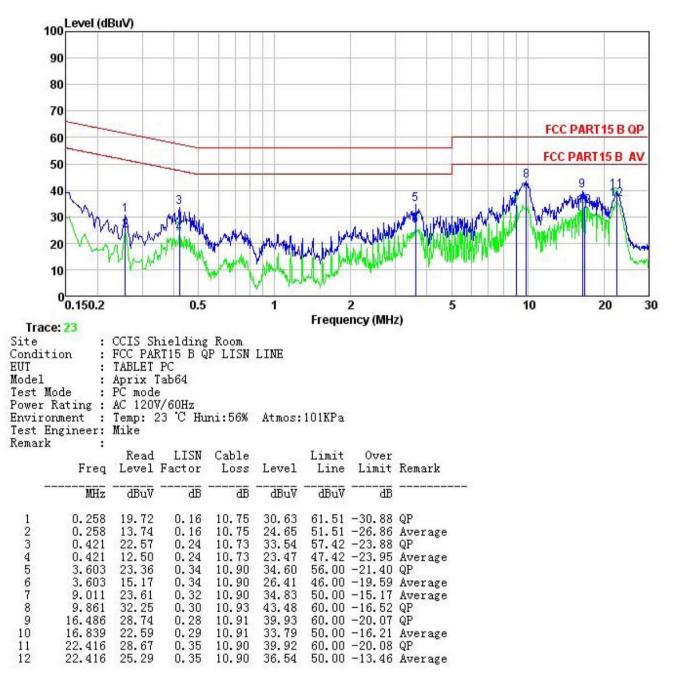
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7		
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:		Lim	it (dBµV)	
Linne.	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
	* Decreases with the logarith	m of the frequency.		
Test setup:	Reference Plar	ne		
Testure conture	LISN 40cm 80ci AUX Equipment E.U.T Test table/Insulation plane E.U.T Remark: E.U.T. Equipment Under Test LISN: Line impedence Stabilization Network Test table height=0.8m	EMI Receiver	power	
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices are a LISN that provides a 5000 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment and 	on network(L.I.S.N.). bedance for the meas e also connected to the ohm/50uH coupling in s to the block diagram e checked for maximum end the maximum emist d all of the interface of	The provide a suring equipment. he main power through mpedance with 500hm n of the test setup and um conducted ssion, the relative cables must be changed	
	according to ANSI C63.4:	2014 on conducted r	neasurement.	
Test environment:	according to ANSI C63.4:Temp.:23 °CHum		Press.: 101kPa	
Test environment: Test Instruments:	u	nid.: 56% F		
	Temp.: 23 °C Hun	nid.: 56% F Is		



Measurement data:

Line:



Notes:

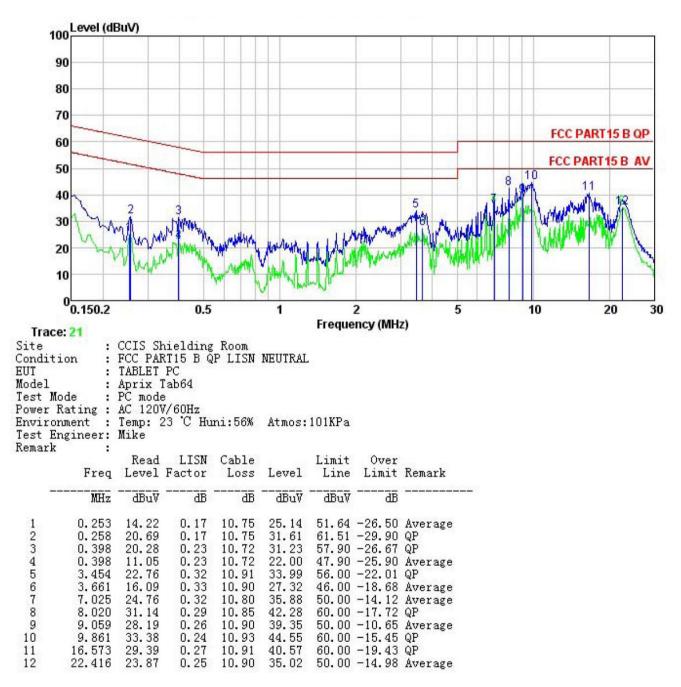
1. An initial pre-scan was performed on the line and neutral lines with peak detector.

- 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.





Neutral:



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.





6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109						
Test Method:	ANSI C63.4:2014						
Test Frequency Range:	30MHz to 25GHz						
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver setup:					Remark		
			-peak 120kHz		300kHz		Quasi-peak Value
	Above 1GHz	Pea RM		1MHz 1MHz	3MH 3MH		Peak Value
Limit:	Frequenc			(dBuV/m @		Z	Average Value Remark
Linnt.	30MHz-88M	40.0			Quasi-peak Value		
	88MHz-216MHz		43.5			Quasi-peak Value	
	216MHz-960		46.0			Quasi-peak Value	
	960MHz-1GHz		54.0			Quasi-peak Value	
	Above 1GHz		54.0 74.0			Average Value	
	Above 101					Peak Value	
	Below 1GHz						
	Horn Antenna AE UT (Turntable) Ground Reference Plane Test Receiver Pre- Amptier Controller						



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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. 						
	 The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

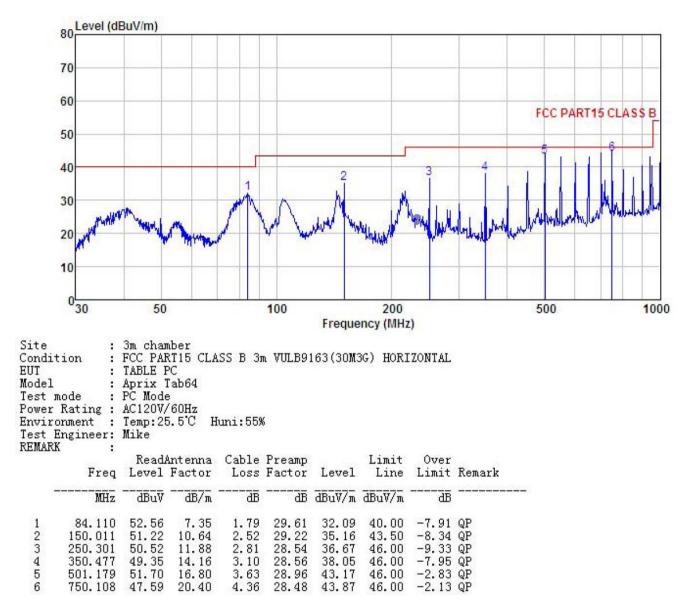
Note: no emission found for above 6GHz ,so only report worse case for 30MHz to 6GHz



Measurement Data:

Below 1GHz

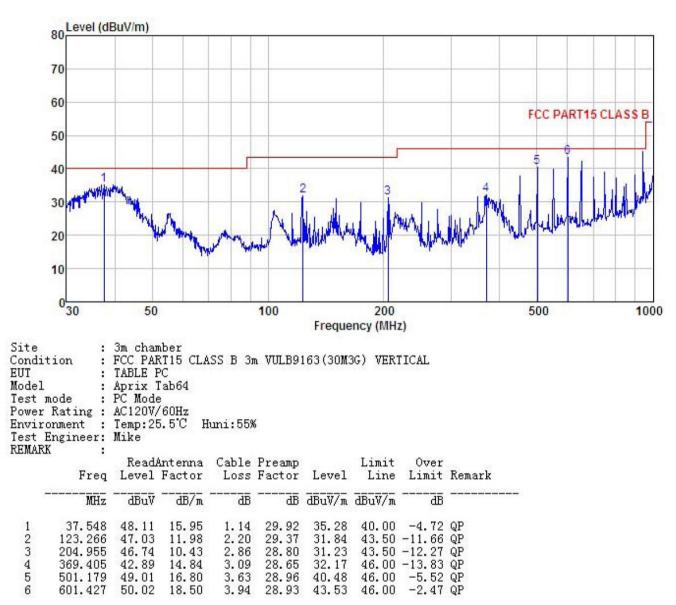
Horizontal:





<u>CCIS</u>

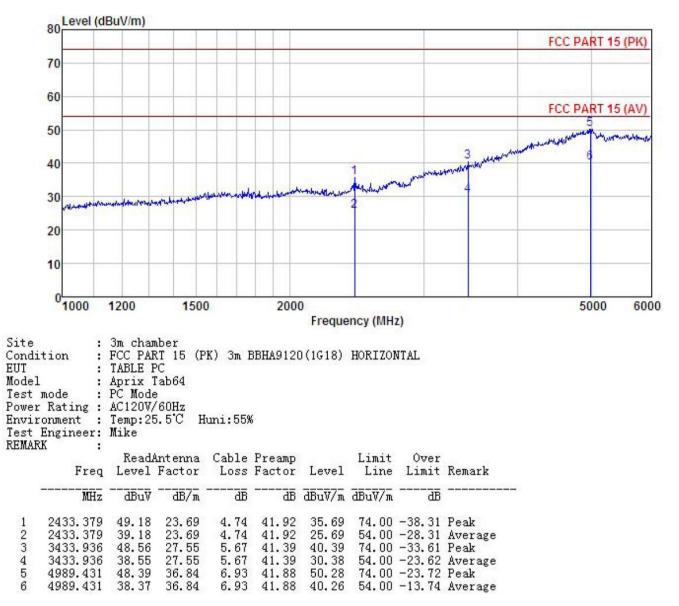
Vertical:





Above 1GHz

Horizontal:





<u>CCIS</u>

Vertical:

