



Report Reference No	TRE1611000803	R/C:90652		
FCC ID	2ABFV-MVA10			
Applicant's name	PC Smart S.A.			
Address	Carrera 116 no.15-25, Bogot	a, Colombia		
Manufacturer	PC Smart S.A.			
Address:	Carrera 116 no.15-25, Bogot	a, Colombia		
Test item description	Tablet			
Trade Mark	PC Smart			
Model/Type reference	PCSGOB10MVA-Series			
List Model	-			
Standard	47 CFR FCC Part 15 Subpa	rt B - Unintentional Radiators		
Date of receipt of test sample:	Oct. 21,2016			
Date of testing	Oct. 24,2016-Nov.02,2016			
Date of issue:	Nov.04,2016			
Result	Pass			
Compiled by		Sharpa Zhu		
(position+printed name+signature):	File administrators Shayne Z	hu Shayne Zhu		
Supervised by		7-00 0		
(position+printed name+signature):	Project Engineer Jeff Sun	fort sten		
Approved by		Homs m		
(position+printed name+signature):	RF Manager Hans Hu	Mouns Mu		
Testing Laboratory Name	Shenzhen Huatongwei Inte	rnational Inspection Co., Ltd.		
Address	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Test standards and Report version

1.1. Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

<u>ANSI C63.4: 2014</u> – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version

Version No.	Date of issue	Description
00	November 04, 2016	Original

2. <u>Test Description</u>

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

Note: The measurement uncertainty is not included in the test result.

3. <u>Summary</u>

3.1. Client Information

Applicant:	PC Smart S.A.	
Address:	Carrera 116 no.15-25,Bogota,Colombia	
Manufacturer:	PC Smart S.A.	
Address:	Carrera 116 no.15-25,Bogota,Colombia	

3.2. Product Description

Name of EUT	Tablet
Trade Mark:	PC Smart
Model No.:	PCSGOB10MVA-Series
List Model:	-
Power supply:	DC 3.7V For internal battery
Adapter information:	-

3.3. EUT operation mode

The EUT has been tested under communication with PC by USB mode.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- \bigcirc supplied by the lab

-			
\bigcirc	PC	Manufacturer :	DELL
		Model No. :	OptiPlex 3020 MT
\bigcirc	Monitor	Manufacturer :	DELL
		Model No. :	E1912Hf
\bigcirc	Keyboard	Manufacturer :	DELL
		Model No. :	SK8115
\bigcirc	Mouse	Manufacturer :	DELL
		Model No. :	MS111-T
\bigcirc	Printer	Manufacturer :	EPSON
		Model No. :	L101

Note:Peripheral devices comply with FCC DOC approval.

3.5. Configuration of Tested System

EUT

4. <u>Test Environment</u>

4.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until December 31, 2016.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection 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 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377A&5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec.03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

Condu	Conducted Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due
1	EMI Test Receiver	Rohde & Schwarz	ESCI	101247	2016/11/13
2	Artificial Mains	Rohde & Schwarz	NNLK 8121	573	2016/11/13
3	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101488	2016/11/13
4	Test Software	Rohde & Schwarz	ES-K1	N/A	N/A

4.3. Equipments Used during the Test

Radia	ted Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
2	EMI Test Receiver	Rohde & Schwarz	ESI 26	100009	2016/11/13
3	EMI Test Software	Audix	E3	N/A	N/A
4	Turntable	MATURO	TT2.0		N/A
5	Antenna Mast	MATURO	TAM-4.0-P-12		N/A
6	EMI Test Software	Rohde & Schwarz	ESK1	N/A	N/A
7	Ultra-Broadband Antenna	Rohde&Schwarz	HL562	100015	2016/11/13
8	Amplifer	ShwarzBeck	BBV 9743	9743-0022	2016/11/13
9	TURNTABLE	ETS	2088	2149	N/A
10	HORN ANTENNA	Rohde&Schwarz	HF906	100039	2016/11/13

The calibration interval was one year.

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

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

5. Test Conditions and Results

5.1. Conducted Emissions Test

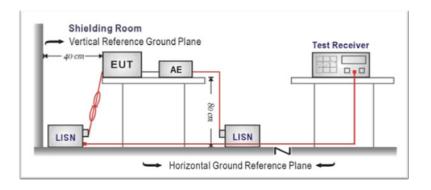
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

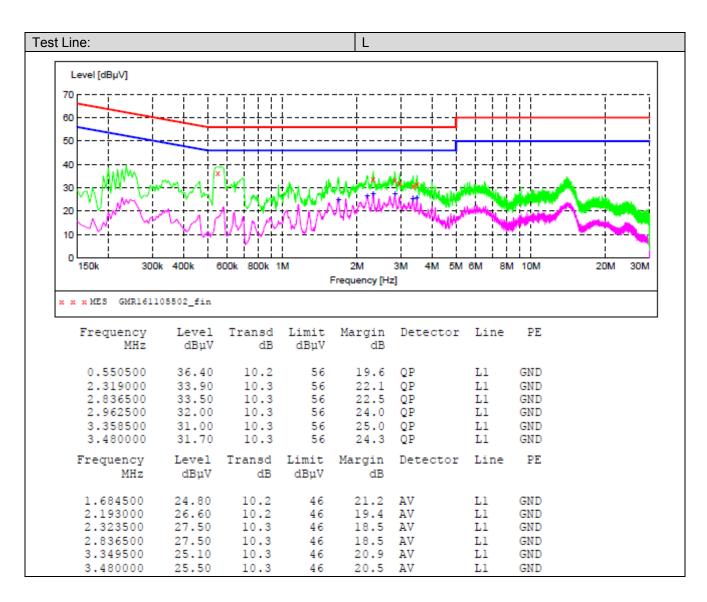
- 1. The EUT was setup according to ANSI C63.4-2014.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above theconducting ground plane. The vertical conducting plane was located 40 cm to the rear of theEUT. All other surfaces of EUT were at least 80 cm from any other grounded conductingsurface.
- 3. The EUT and simulators are connected to the main power through a line impedancestabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for themeasuring equipment.
- 4. The peripheral devices are also connected to the main power through aLISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were foldedback and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHzusing a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

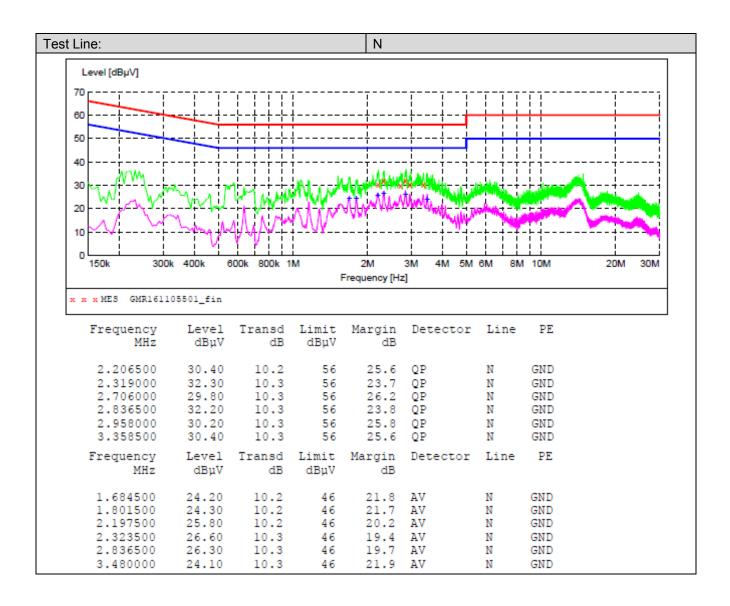
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable





5.2. Radiated Emission Test

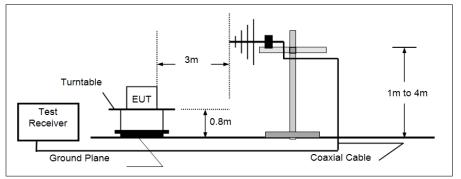
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

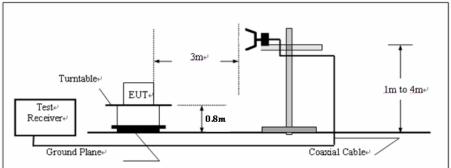
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

> 30MHz ~ 1GHz



Above 1GHz



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.4:2014.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- 5. The tested frequency range 30MHz to 25GHz.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=QP, Trace=max hold; If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1GHz, RBW=1MHz, VBW=3MHz

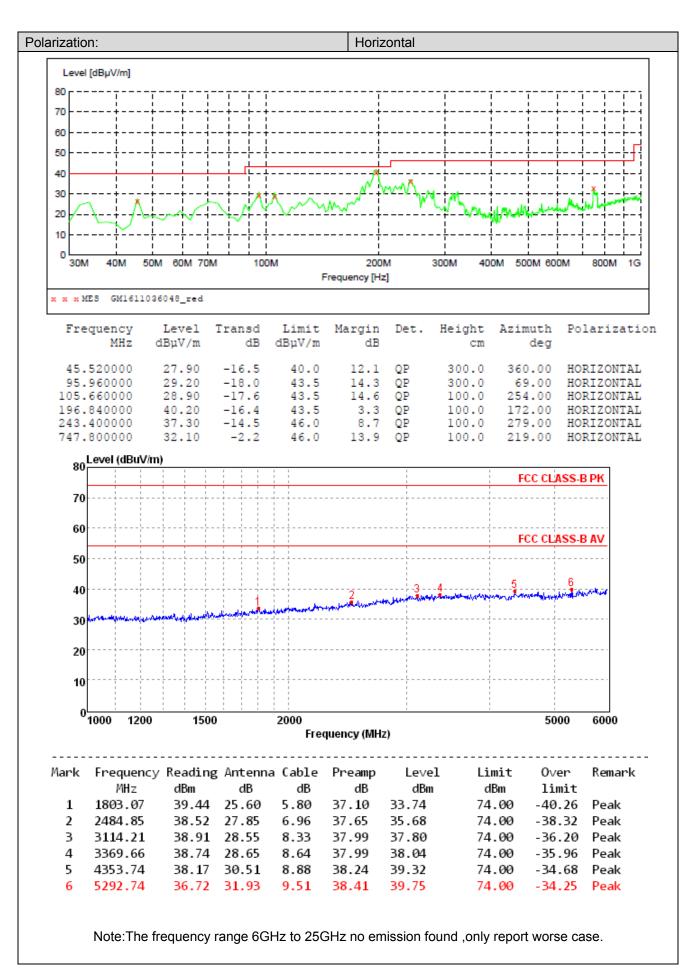
TEST MODE:

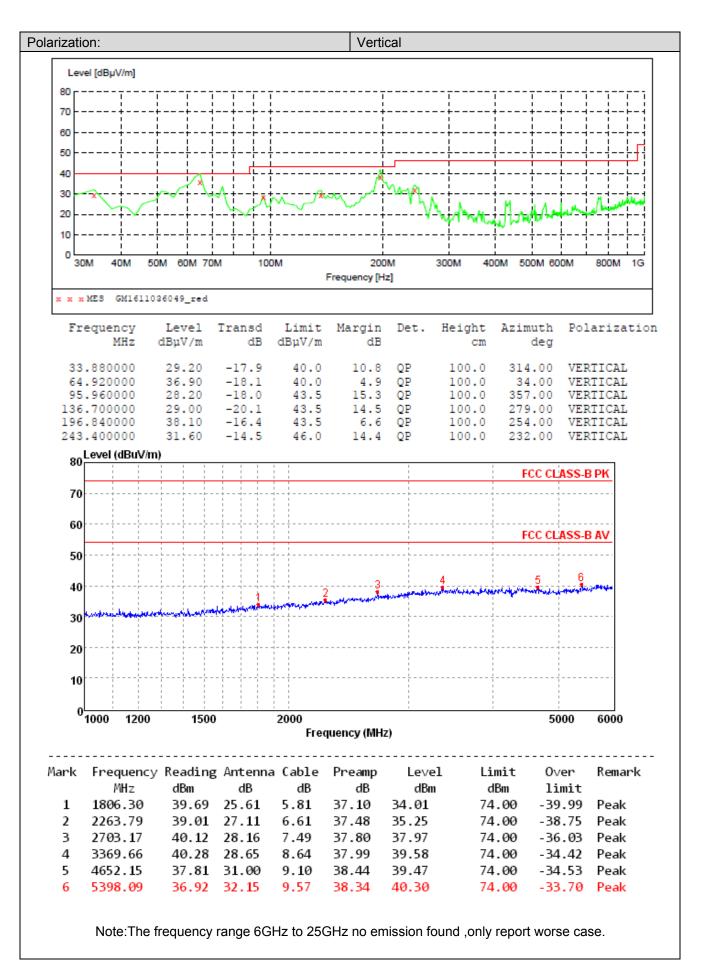
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note: Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor





6. Test Setup Photos of the EUT

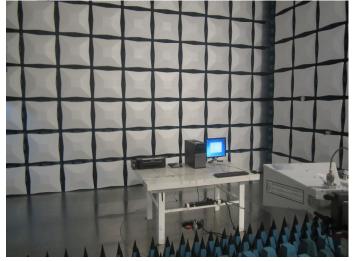
Conducted Emission(AC Mains)



Radiated Emission (30MHz-1GHz)



Radiated Emission (Above 1GHz)



7. External and Internal Photos of the EUT

Reference to Test Report TRE 1611000801

.....End of Report.....