

FCC PART 15B, CLASS B
TEST REPORT

For

Archos SA

12 Rue Ampere, Igny, France

FCC ID: SOVAC101ENE

Report Type: Original Report	Product Type: Tablet PC
Test Engineer: <u>Xiangguang Kong</u> <i>Xiangguang . Kong</i>	
Report Number: <u>RSZ160225001-00A</u>	
Report Date: <u>2016-03-10</u>	
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Archos SA's product, model number: AC101ENE (FCC ID: SOVAC101ENE) or the "EUT" in this report was a Tablet PC, which was measured approximately: 261 mm (L) × 154 mm (W) × 10.5 mm (H), rated with input voltage: DC 3.7V rechargeable Li-ion battery or DC 5V from adapter. The highest operational frequency is 2480MHz.

Adapter Information:

Model: KA1602-0502000DES

Input AC: 100-240V, 50/60Hz, 0.35A

Output: DC 5V, 2000mA

Manufacture Information:

Company Name: Pipo Technology Co.,Ltd.

Company Address: Area C, 3F, Warehouse Building, Bao Yun Da Logistics Center, Xixiang Blvd, BaoAn District, ShenXhen, China

Note: The serial models AC101ENE, 101e Neon and K3F, they are identical schematics, and the difference between them is only the model number. Model AC101ENE was selected for testing. The detail was explained in the attached product similarity declaration letter provided and guaranteed by applicant.

**All measurement and test data in this report was gathered from production sample serial number: 1601413 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2016-02-25.*

Objective

This test report is prepared on behalf of Archos SA in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS & DTS submissions with FCC ID: SOVAC101ENE.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, 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 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.81 dB for 30MHz-1GHz, and 4.88 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT Test Mode 1: Downloading (data transfer with computer)

EUT Test Mode 2: Charging & playing & HDMI

EUT Exercise Software

“BurnIn test v5.3” exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

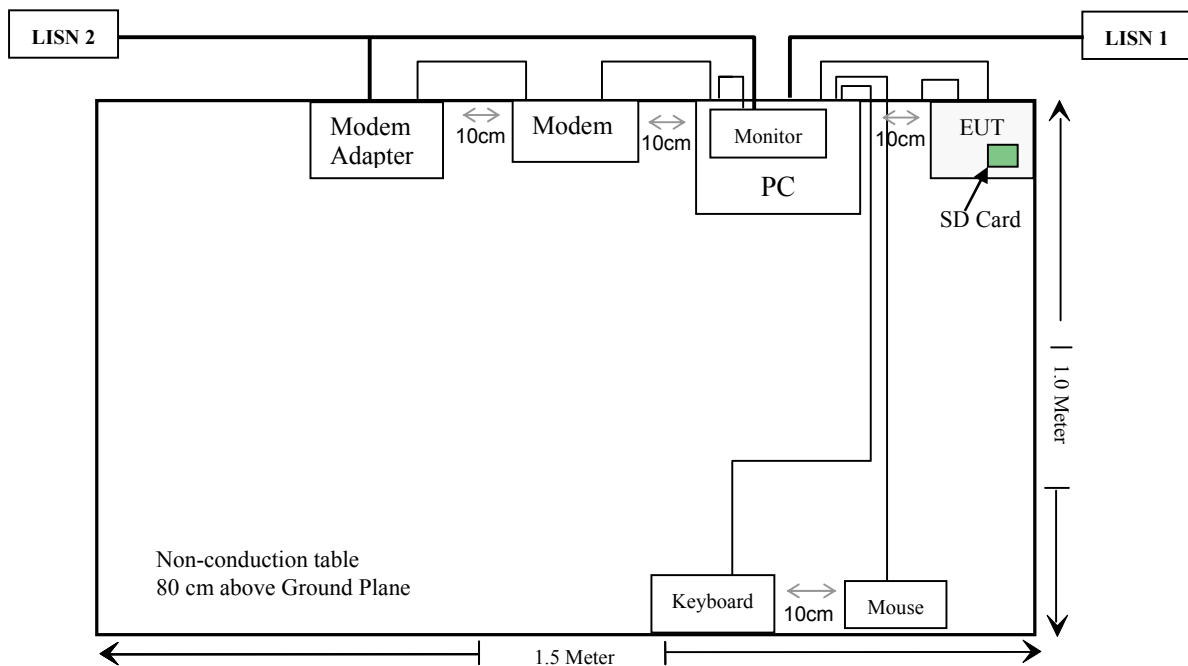
No modification was made to the EUT tested.

Support Equipment List and Details

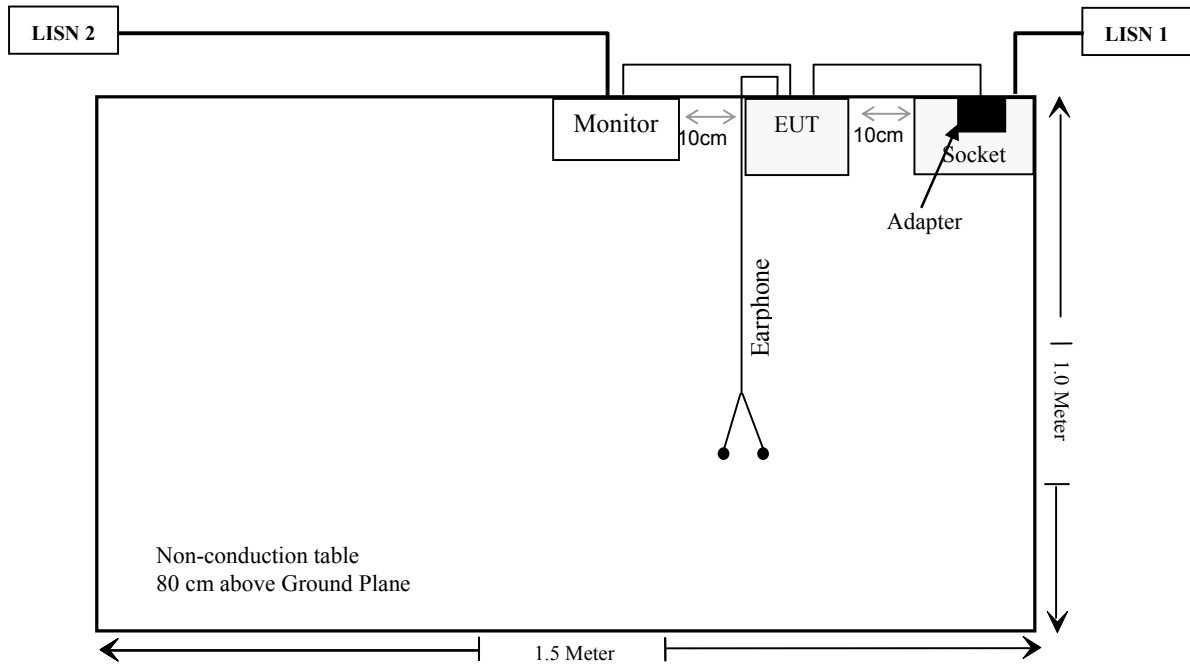
Manufacturer	Description	Model	Serial Number
DELL	PC	VOSTRO 220S	127BP2X
DELL	LCD Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Mouse	MOC5UO	G1900NKD
DELL	Monitor	ST2420Lb	CN-0X0K27-74261-2AF-090U
SAST	Modem	AEM-2100	0293
Kingston	Micro SD card	1 GB	N/A

External I/O Cable

Cable Description	Length (m)	From/Port	To
Un-Shielding Detachable USB Cable	1.5	Host PC	Mouse
Un-Shielding Detachable Serial Cable	1.5	Host PC	Modem
Un-Shielding Detachable K/B Cable	1.5	Host PC	Keyboard
Un-Shielding Detachable VGA Cable	1.5	Host PC	LCD Monitor
Un-shielding Detachable USB Cable	1.0	EUT	PC
Shielding Detachable HDMI Cable	1.5	EUT	Monitor
Un-shielding Detachable DC Cable	2.0	Modem	Modem Adapter

Block Diagram of Test Setup*For Test Mode 1:*

For Test Mode 2:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Spurious Emissions	Compliance

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

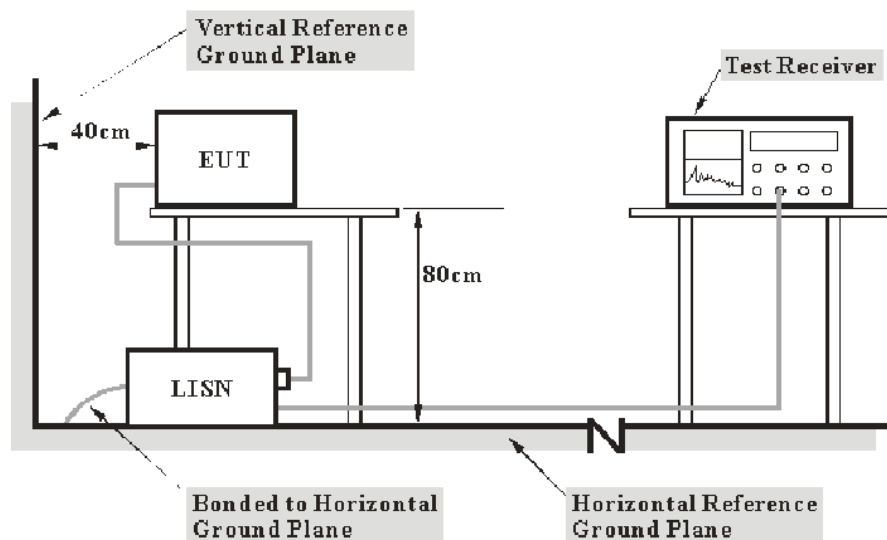
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN/ISN and receiver, LISN/ISN voltage division factor, LISN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

Port	Measurement uncertainty
AC Mains	3.34 dB (k=2, 95% level of confidence)
CAT 3	3.72 dB (k=2, 95% level of confidence)
CAT 5	3.74 dB (k=2, 95% level of confidence)
CAT 6	4.54 dB (k=2, 95% level of confidence)

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the first LISN and the other relevant equipments were connected to the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2015-06-01	2016-05-31
Rohde & Schwarz	LISN 1	ENV216	3560.6650.12-101613-Yb	2015-12-15	2016-12-14
COM-POWER	LISN 2	LI-200	12208	2015-12-15	2016-12-14
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2015-05-14	2016-05-14
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR
Ducommun technologies	Conducted Emission Cable	RG-214	CB031	2015-06-15	2016-06-15

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, the worst margin as below:

4.4 dB at 0.514170 MHz in the Line conducted mode for Test Mode 2

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

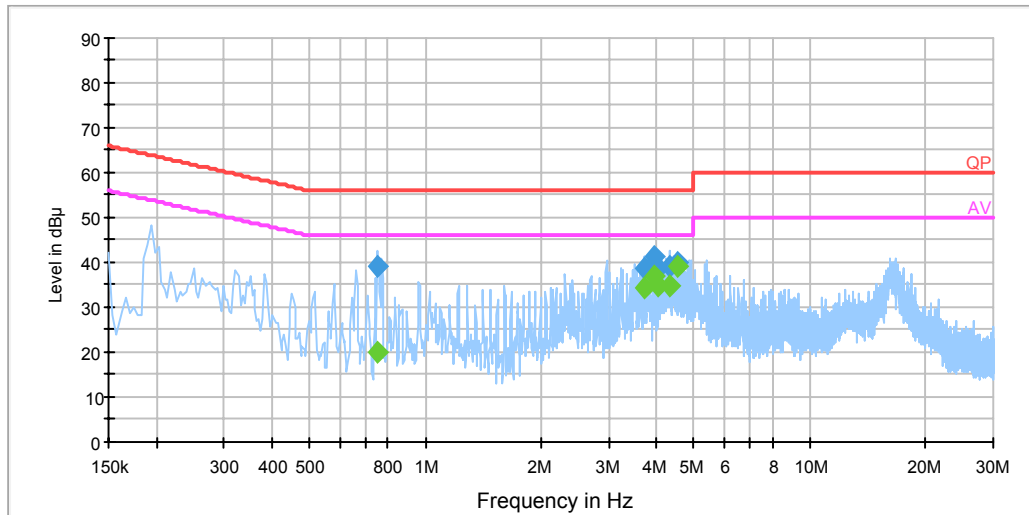
Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Xiangguang Kong on 2016-03-01.

EUT Test Mode 1:

AC 120V/60 Hz, Line:

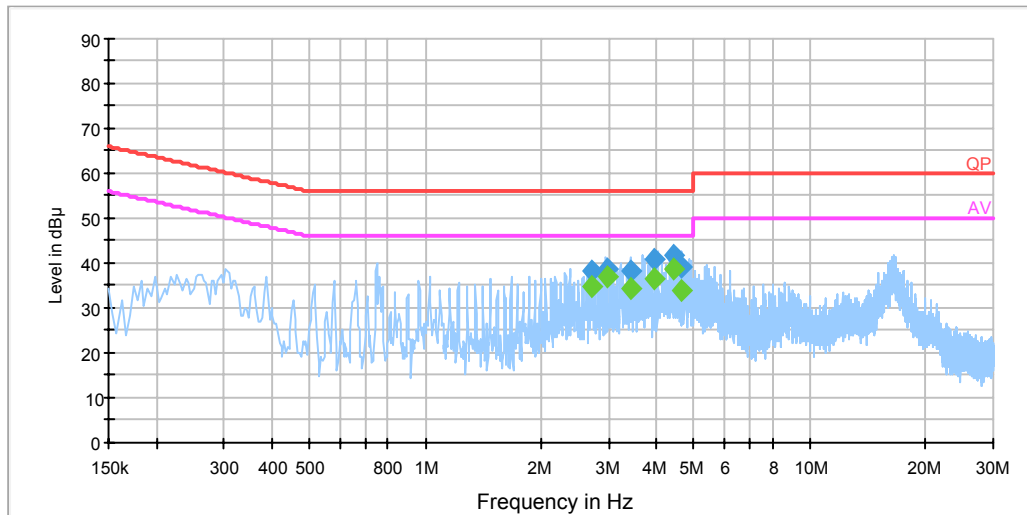
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.746750	39.1	19.9	56.0	16.9	QP
0.746750	20.0	19.9	46.0	26.0	Ave.
3.726110	38.6	20.0	56.0	17.4	QP
3.726110	34.3	20.0	46.0	11.7	Ave.
3.923170	41.2	20.0	56.0	14.8	QP
3.923170	36.8	20.0	46.0	9.2	Ave.
4.049670	38.6	20.0	56.0	17.4	QP
4.049670	34.6	20.0	46.0	11.4	Ave.
4.305350	39.3	20.0	56.0	16.7	QP
4.305350	35.0	20.0	46.0	11.0	Ave.
4.526050	40.0	20.0	56.0	16.0	QP
4.526050	39.1	20.0	46.0	6.9	Ave.

AC 120V/60 Hz, Neutral:

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
2.697530	38.5	20.0	56.0	17.5	QP
2.697530	34.9	20.0	46.0	11.1	Ave.
2.961630	38.6	20.0	56.0	17.4	QP
2.961630	36.8	20.0	46.0	9.2	Ave.
3.406910	38.3	20.0	56.0	17.7	QP
3.406910	34.6	20.0	46.0	11.4	Ave.
3.919170	40.9	20.0	56.0	15.1	QP
3.919170	36.4	20.0	46.0	9.6	Ave.
4.427550	41.7	20.0	56.0	14.3	QP
4.427550	38.9	20.0	46.0	7.1	Ave.
4.628610	39.1	20.0	56.0	16.9	QP
4.628610	34.1	20.0	46.0	11.9	Ave.

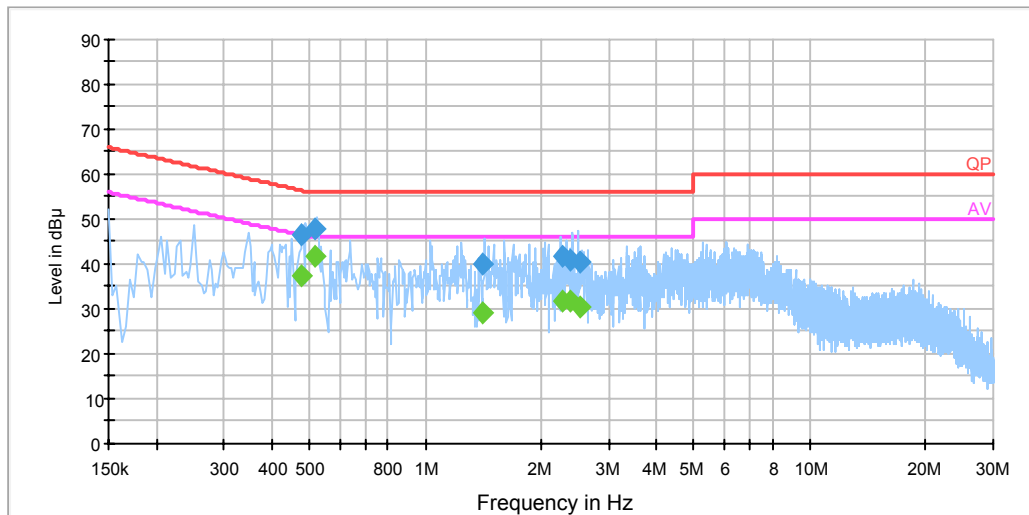
Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

EUT Test Mode 2:

AC 120V/60 Hz, Line:

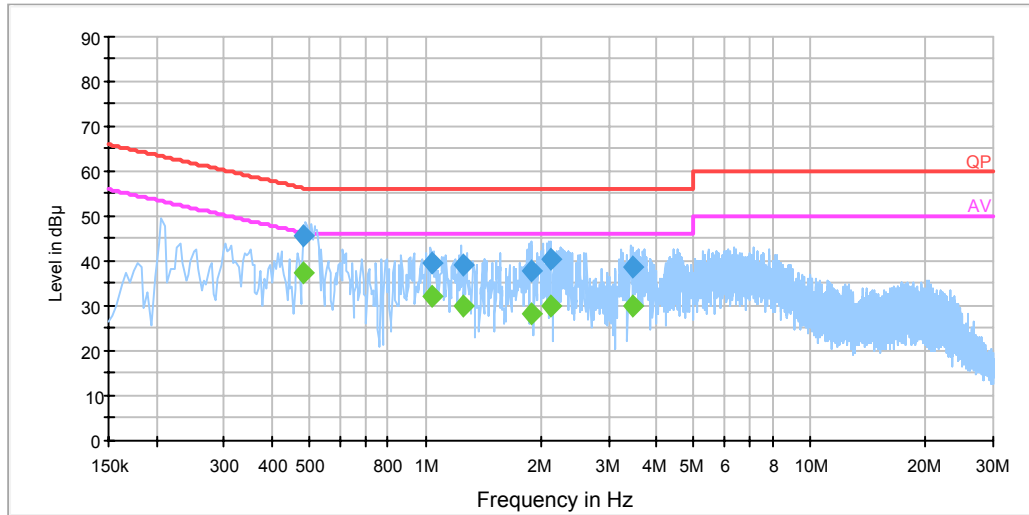
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.478830	46.5	19.9	56.4	9.9	QP
0.478830	37.5	19.9	46.4	8.9	Ave.
0.514170	47.8	19.9	56.0	8.2	QP
0.514170	41.6	19.9	46.0	4.4	Ave.
1.404610	40.1	20.0	56.0	15.9	QP
1.404610	29.0	20.0	46.0	17.0	Ave.
2.268370	41.7	20.0	56.0	14.3	QP
2.268370	31.8	20.0	46.0	14.2	Ave.
2.373850	40.8	20.0	56.0	15.2	QP
2.373850	31.9	20.0	46.0	14.1	Ave.
2.520530	40.5	20.0	56.0	15.5	QP
2.520530	30.3	20.0	46.0	15.7	Ave.

AC 120V/60 Hz, Neutral:

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.482650	45.8	19.9	56.3	10.5	QP
0.482650	37.3	19.9	46.3	9.0	Ave.
1.042490	39.4	20.0	56.0	16.6	QP
1.042490	32.0	20.0	46.0	14.0	Ave.
1.259370	39.1	20.0	56.0	16.9	QP
1.259370	29.8	20.0	46.0	16.2	Ave.
1.897590	37.7	20.0	56.0	18.3	QP
1.897590	28.4	20.0	46.0	17.6	Ave.
2.122530	40.2	20.0	56.0	15.8	QP
2.122530	29.8	20.0	46.0	16.2	Ave.
3.477390	38.7	20.0	56.0	17.3	QP
3.477390	30.1	20.0	46.0	15.9	Ave.

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §15.109

Measurement Uncertainty

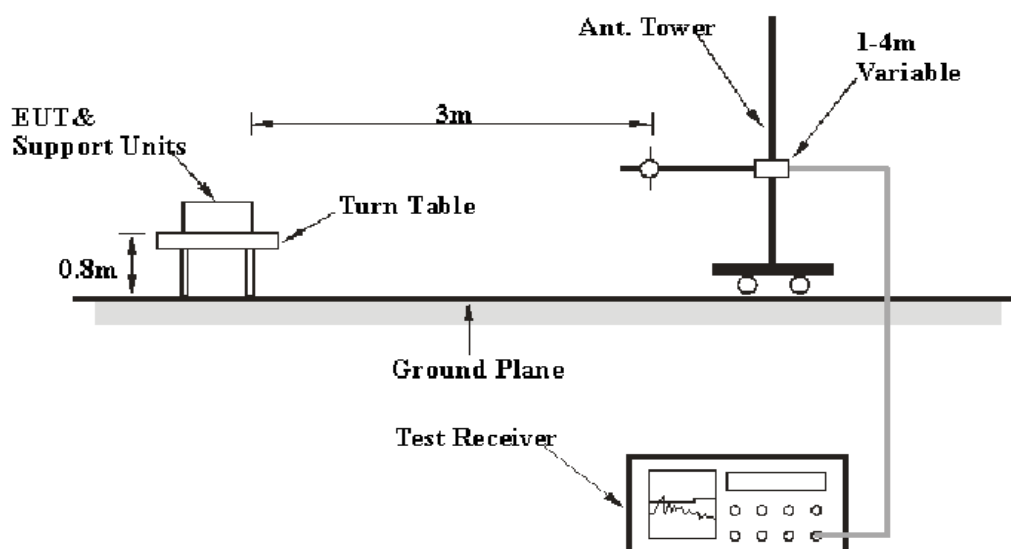
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

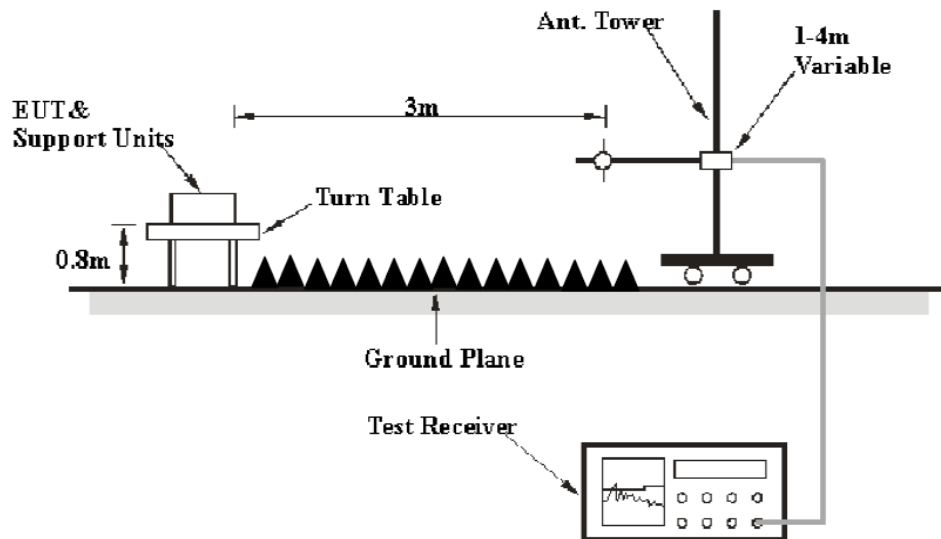
Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.81 dB for 30MHz-1GHz and 4.88 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report

Frequency	Polarity	Measurement uncertainty
30 MHz~200 MHz	Horizontal	4.04 dB (k=2, 95% level of confidence)
	Vertical	4.52 dB (k=2, 95% level of confidence)
200 MHz~1 GHz	Horizontal	4.72 dB (k=2, 95% level of confidence)
	Vertical	5.81 dB (k=2, 95% level of confidence)
1 GHz~6 GHz	Horizontal/Vertical	4.64 dB (k=2, 95% level of confidence)
Above 6 GHz	Horizontal/Vertical	4.88 dB (k=2, 95% level of confidence)

EUT Setup

Below 1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 12.4 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2015-05-06	2016-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2015-12-15	2016-12-14
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
Mini	Amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
TDK	Chamber	Chamber A	2#	2013-10-15	2016-10-15
TDK	Chamber	Chamber B	1#	2015-07-23	2016-07-22
R&S	Auto test Software	EMC32	V9.10	NCR	NCR
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369 223410-001	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	104PEA	218124002	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	1	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	2	2015-06-15	2016-06-15

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, the worst margin reading as below:

3.61 dB at 36.13 MHz in the **Vertical** polarization mode for Downloading

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data**Environmental Conditions**

Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Xiangguang Kong on 2016-03-01.

EUT Test Mode 1:

30 MHz – 12.4 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 15B	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
30.40	36.58	QP	38	1.0	V	-0.2	36.38	40	3.62
36.13	41.29	QP	265	1.1	V	-4.9	36.39	40	3.61
480.00	34.60	QP	210	1.1	H	-2.6	32.00	46	14.00
500.00	36.77	QP	32	1.0	H	-2.6	34.17	46	11.83
699.97	36.99	QP	335	1.4	V	0.5	37.49	46	8.51
899.93	24.38	QP	331	1.5	V	2.8	27.18	46	18.82
1242.31	43.26	PK	323	1.6	H	-12.06	31.20	74	42.80
1242.31	33.49	Ave.	323	1.6	H	-12.06	21.43	54	32.57
2021.33	47.95	PK	307	2.4	V	-6.99	40.96	74	33.04
2021.33	36.87	Ave.	307	2.4	V	-6.99	29.88	54	24.12

*EUT Test Mode 2:***30 MHz – 12.4 GHz:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15B	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
129.12	38.51	QP	337	1.0	V	-6.6	31.91	43.5	11.59
256.22	35.73	QP	240	1.3	V	-8.4	27.33	46	18.67
299.31	34.78	QP	240	1.3	V	-6.3	28.48	46	17.52
388.05	37.37	QP	257	1.4	V	-5.0	32.37	46	13.63
451.45	39.57	QP	208	1.7	H	-3.5	36.07	46	9.93
742.11	32.99	QP	255	1.8	H	0.8	33.79	46	12.21
1189.71	43.32	PK	5	1.3	H	-12.06	31.26	74	42.74
1189.71	32.51	Ave.	5	1.3	H	-12.06	20.45	54	33.55
2102.53	45.32	PK	34	1.5	V	-6.98	38.34	74	35.66
2102.53	33.19	Ave.	34	1.5	V	-6.98	26.21	54	27.79

Note:

- 1) Correction Factor=Antenna factor (RX) + cable loss – amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
- 3) Margin = Limit - Corrected Amplitude

PRODUCT SIMILARITY DECLARATION LETTER

Archos SA
Address: 12 Rue Ampere, Igny, France
Tel: 0033169331690

Product Similarity Declaration

March 10, 2016

To Whom It May Concern,

We, Archos SA, hereby declare that we have a product named as Tablet PC(Model number: AC101ENE) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (101e Neon, K3F) on reports and certificate, all the models are identical schematics, only named differently.
No other changes are made to them

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Sincerely,

Signature

Jacky WU

General Manager

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12, rue Ampère
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SA au capital de 9 835 308 Euros
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***** END OF REPORT *****