

FCC PART 15B

TEST REPORT

For

Action Electronics Co Ltd.

No. 198, Chung Yuan Road Chung, Chung Li, Taiwan

FCC ID: AT19R3MID30701

Report Type: Original Report	Product Type: 7" Tablet PC
Test Engineer:	Leon Chen
Report Number:	R2DG130821005-00B
Report Date:	2013-10-30
Reviewed By:	Ivan Cao RF Leader
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Action Electronics Co Ltd.'s product, model number: MID30701 (FCC ID: *ATI9R3MID30701*) (the "EUT") in this report is a 7" *Tablet PC*, Which was measured approximately: 20.5cm (L) x 12.0 cm (W) x 1.0 cm (T), rated input voltage: DC 3.7 V from lithium battery or DC 5V from adapter.

Adapter information:

Model: ASSA1B-050200

Input: 100-240V AC, 50/60Hz, 0.45A

Output: 5.0V DC, 2000mA

Note: The series product, model MID30701, T752 MID, AD7L are electrically identical, the differences between them are the model name and appearance of silk screen, we selected MID30701 for fully testing, the details was explained in the attached declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 130821005 (Assigned by BACL.Dongguan). The EUT was received on 2013-08-23.*

Objective

This report is prepared on behalf of *Action Electronics Co Ltd.* 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 compliance with FCC Part 15B, Class B.

Related Submittal(s)/Grant(s)

FCC Part 15C DTS submissions with FCC ID: *ATI9R3MID30701* for Wifi.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) 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 February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Dongguan) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 500069-0).



The current scope of accreditations can be found at <http://ts.nist.gov/standards/scopes/5000690.htm>

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user). The highest operating frequency is 1200 MHz.

Test mode 1: USB Downloading

Test mode 2: HDMI Playing

EUT Exercise Software

The software “winthrax.exe” was used in the test.

Equipment Modifications

No equipment modification was used.

Local Support Equipment List and Details

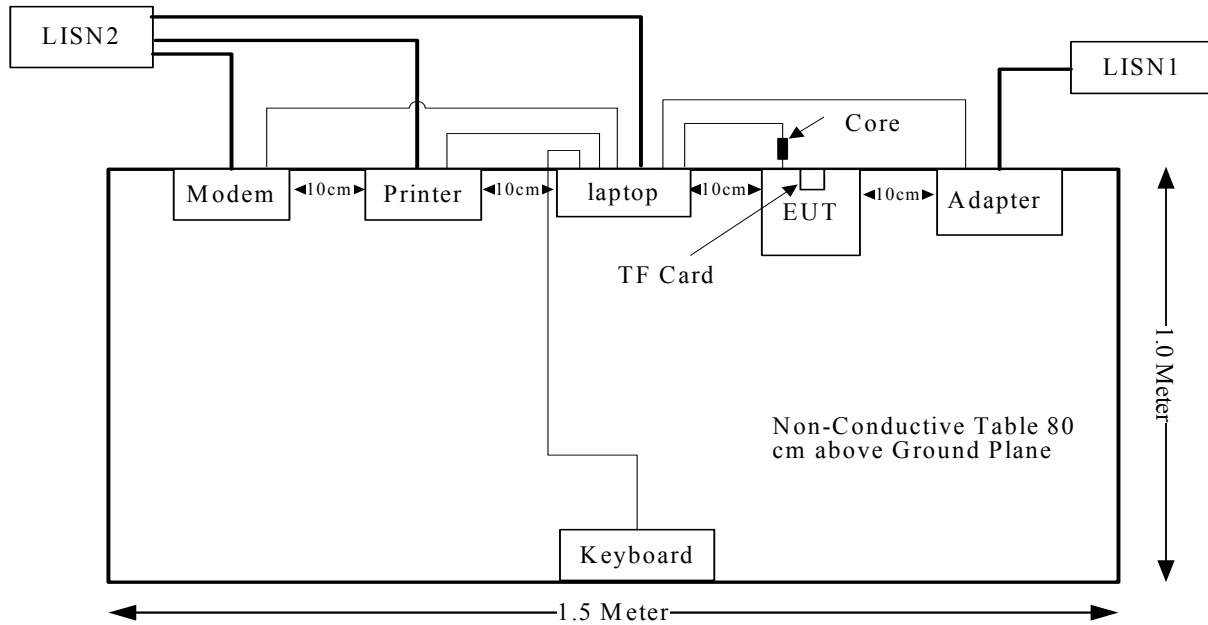
Manufacturer	Description	Model	Serial Number
HP	Printer	C3941A	JPTVOB2337
SAST	Modem	AEM-2100	0293
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Laptop	PP11L	N/A
SAMSUNG	Monitor	S22C330H	ZXDCHTHD101491K
SAMSUNG	TF CARD	N/A	N/A

External I/O Cable

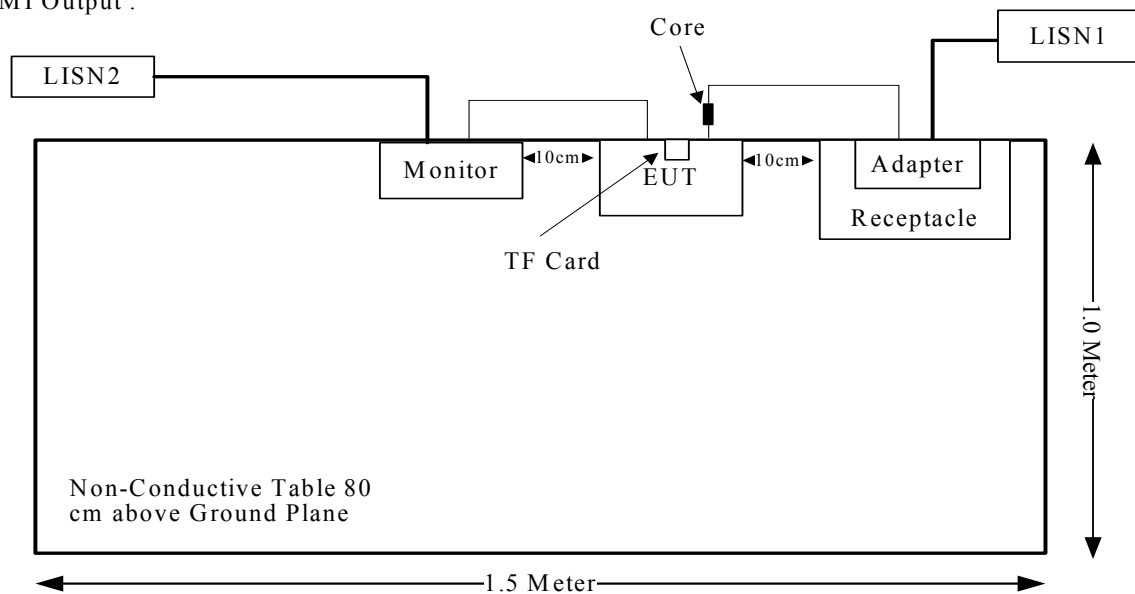
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Printer Cable	Yes	No	1.2	Laptop	Printer
Serial Cable	Yes	No	1.2	Laptop	Modem
Keyboard Cable	Yes	No	1.5	Laptop	Keyboard
USB Cable	Yes	Yes	1.0	Laptop/Adapter	EUT
HDMI Cable	Yes	No	1.8	Monitor	EUT

Block Diagram of Test Setup

USB Downloading:



HDMI Output :



SUMMARY OF TEST RESULTS

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

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp} of Table 1, then:

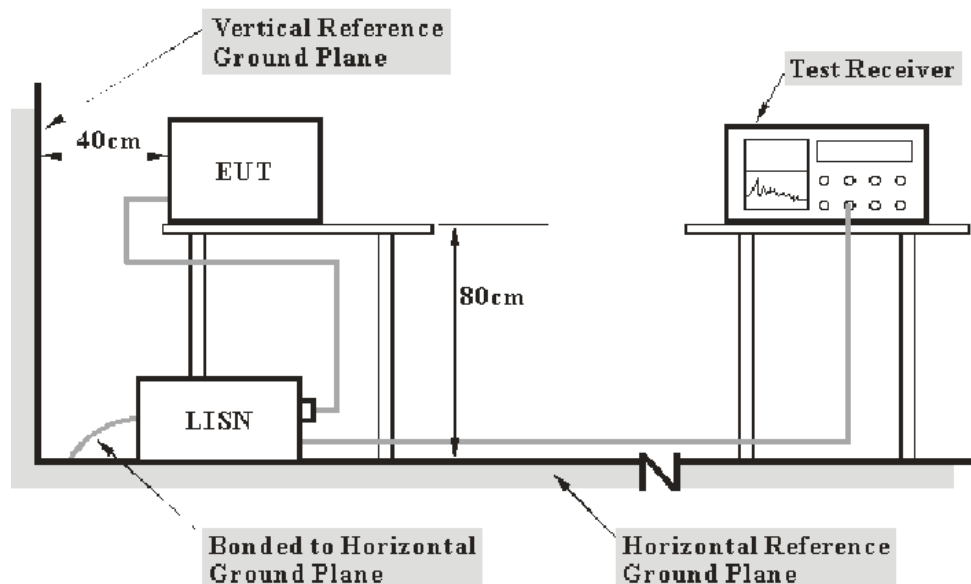
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cisp}

Measurement	U_{cisp}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

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 setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

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/Laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of 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.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI TEST RECEIVER	ESCS 30	830245/006	2012-11-29	2013-11-28
R&S	Two-line V-network	ENV216	3560.6550.12	2013-2-18	2014-2-17
R&S	L.I.S.N	ESH3-Z5	100113	2012-11-29	2013-11-28
BACL	Test Software	BACL-EMC	V1.0-2010	N/A	N/A

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

Test Results Summary

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

7.21 dB at 0.325 MHz in the **Line** conducted mode of USB Downloading mode.

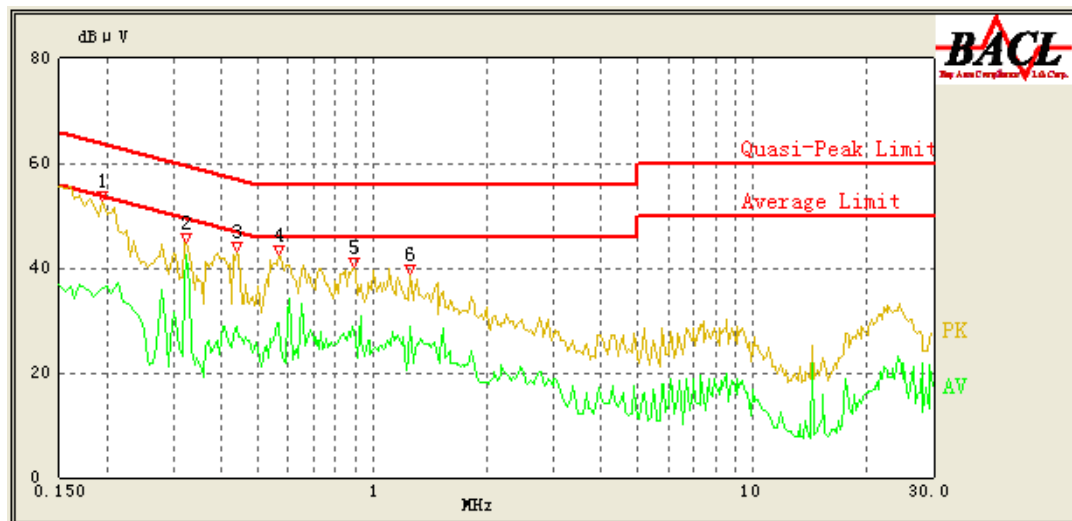
Test Data**Environmental Conditions**

Temperature:	27.3~27.8 °C
Relative Humidity:	56~63 %
ATM Pressure:	100.2~100.6 kPa

The testing was performed by Leon Chen from 2013-09-11 to 2013-09-17.

Test mode: USB Downloading

120 V, 60 Hz, Line:



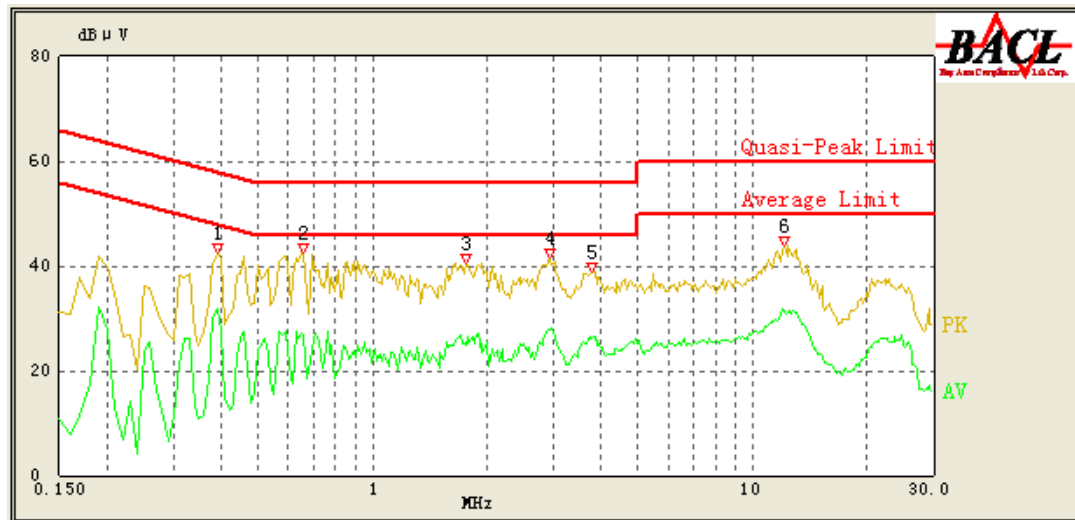
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.195	45.16	0.43	63.82	18.66	QP
0.195	36.07	0.43	53.82	17.75	AV
0.325	42.75	0.34	59.45	16.83	QP
0.325	42.37	0.34	49.45	7.21	AV
0.440	35.14	0.32	57.06	21.92	QP
0.440	28.85	0.32	47.06	18.21	AV
0.565	36.29	0.31	56.00	19.71	QP
0.565	29.44	0.31	46.00	16.56	AV
0.890	32.94	0.32	56.00	23.06	QP
0.885	28.76	0.32	46.00	17.24	AV
1.255	33.45	0.33	56.00	22.55	QP
1.255	28.93	0.33	46.00	17.07	AV

120 V, 60 Hz, Neutral:

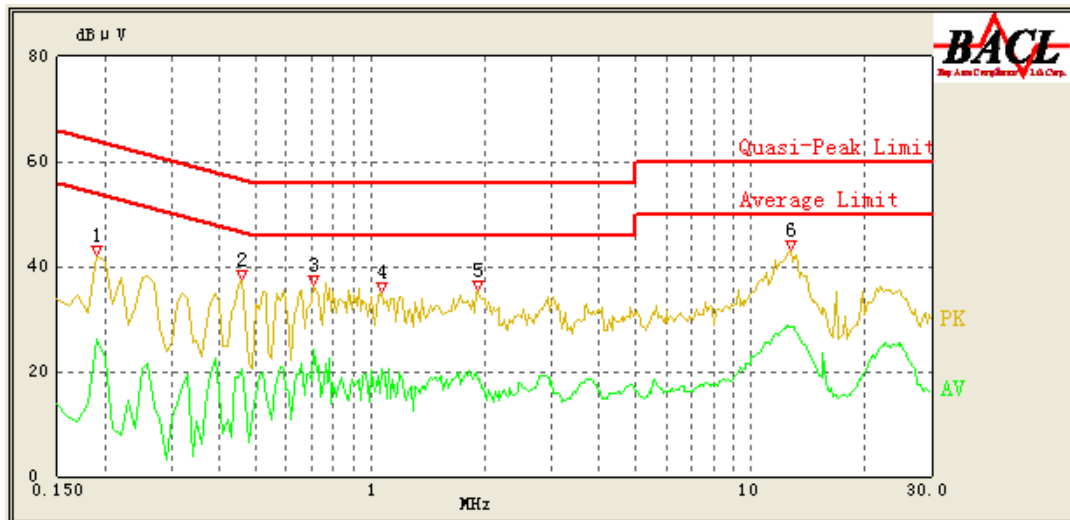
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.170	44.78	0.26	64.96	20.18	QP
0.170	38.69	0.26	54.96	16.27	AV
0.270	39.80	0.24	61.12	21.32	QP
0.270	31.15	0.24	51.12	19.97	AV
0.470	34.52	0.21	56.51	21.99	QP
0.470	23.47	0.21	46.51	23.04	AV
0.675	31.36	0.22	56.00	24.64	QP
0.675	23.70	0.22	46.00	22.30	AV
1.165	29.00	0.24	56.00	27.00	QP
1.165	23.89	0.24	46.00	22.11	AV
1.735	26.53	0.26	56.00	29.47	QP
1.735	24.18	0.26	46.00	21.82	AV

Test mode: HDMI Playing

120 V, 60 Hz, Line:



Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.390	38.94	0.33	58.06	19.12	QP
0.390	31.81	0.33	48.06	16.25	AV
0.660	36.25	0.31	56.00	19.75	QP
0.660	26.80	0.31	46.00	19.20	AV
1.770	35.38	0.35	56.00	20.62	QP
1.780	26.36	0.35	46.00	19.64	AV
2.920	34.94	0.39	56.00	21.06	QP
2.920	27.72	0.39	46.00	18.28	AV
3.770	33.05	0.42	56.00	22.95	QP
3.750	26.24	0.42	46.00	19.76	AV
12.120	36.44	1.22	60.00	23.56	QP
12.070	31.56	1.21	50.00	18.44	AV

120 V, 60 Hz, Neutral:

Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.190	38.88	0.25	58.06	19.18	QP
0.190	26.25	0.25	48.06	21.81	AV
0.460	32.06	0.21	56.69	24.63	QP
0.460	20.66	0.21	46.69	26.03	AV
0.710	32.08	0.22	56.00	23.92	QP
0.710	24.27	0.22	46.00	21.73	AV
1.070	29.91	0.23	56.00	26.09	QP
1.070	20.59	0.23	46.00	25.41	AV
1.920	28.35	0.27	56.00	27.65	QP
1.920	18.50	0.27	46.00	27.50	AV
12.750	35.10	0.95	60.00	24.90	QP
12.800	28.59	0.95	50.00	21.41	AV

FCC §15.109 - RADIATED EMISSIONS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

30M~200MHz: 5.0 dB

200M~1GHz: 6.2 dB

1G~6GHz: 4.45 dB

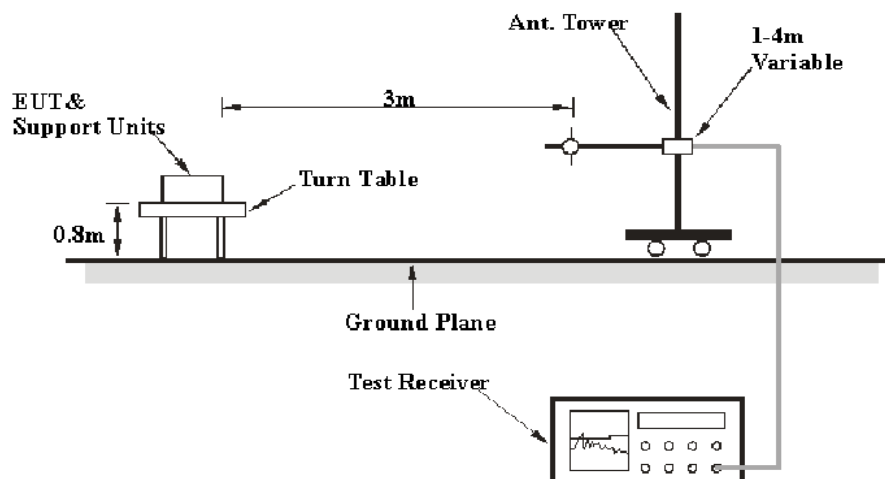
6G~18GHz: 5.23 dB

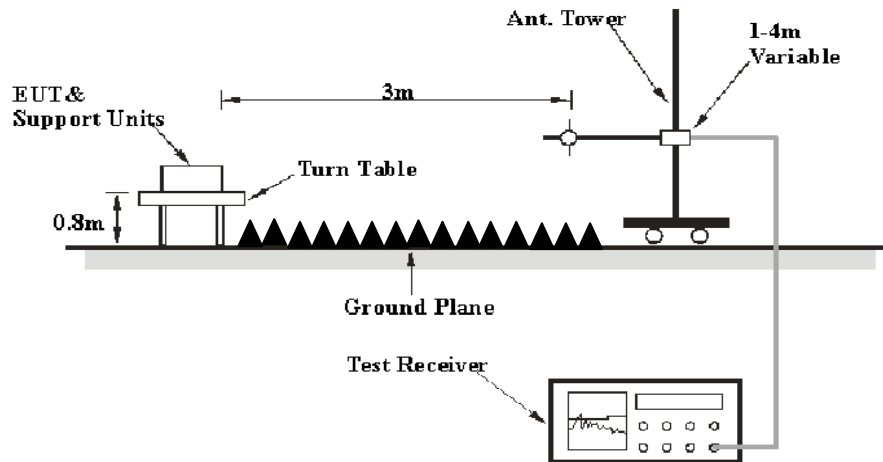
Table 2 – Values of U_{cisp}

Measurement	U_{cisp}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1 GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. 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.

The adapter was connected to a 120 VAC/60 Hz or 12V DC power source

EMI Test Receiver Setup

According to FCC 15.33 requirements, the system was measured from 30 MHz to 6 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
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

For the radiated emissions test, the adapter/Laptop was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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

The data was recorded in Quasi-peak detection mode for 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

Corrected Amplitude & Margin Calculation

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

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI TEST RECEIVER	ESCI	100224	2013-5-6	2014-5-5
Sunol Sciences	Antenna	JB3	A060611-1	2011-9-6	2014-9-5
HP	AMPLIFIER	8447E	2434A02181	N/A	N/A
R&S	Spectrum analyzer	FSEM	DE31388	2013-5-7	2014-5-6
ETS LINDGREN	horn antenna	3115	000 527 35	2012-9-6	2015-9-5
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	N/A	N/A
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

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

Test Results Summary

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

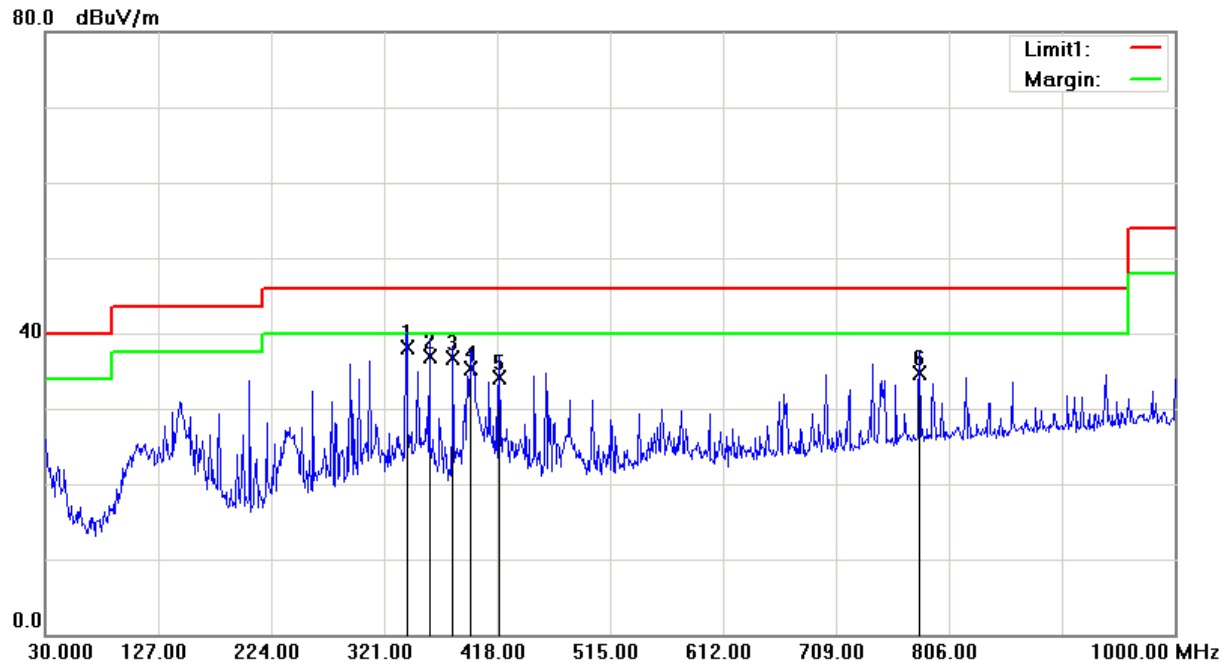
1.70 dB at 395.6900 MHz in the **Horizontal** polarization of HDMI Playing mode

Test Data

Environmental Conditions

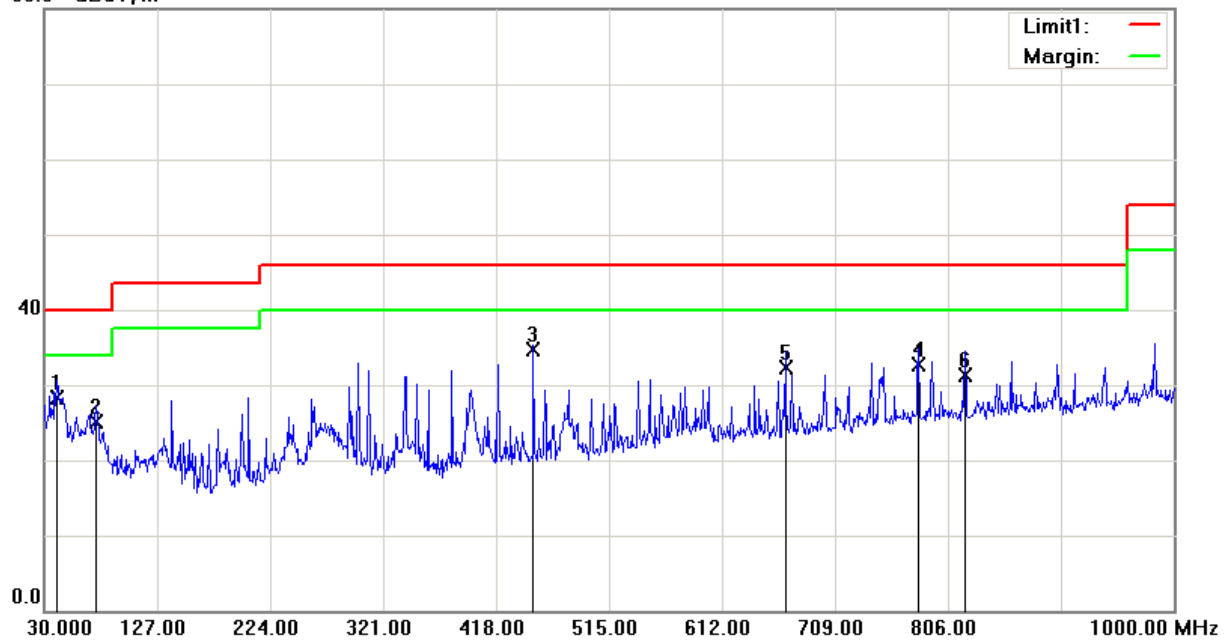
Temperature:	23.6~27.6 °C
Relative Humidity:	52~68 %
ATM Pressure:	99~101.4 kPa

The testing was performed by Leon Chen from 2013-08-28 to 2013-10-30.

1) Below 1G:*Test mode: USB Downloading***Horizontal:**

Vertical:

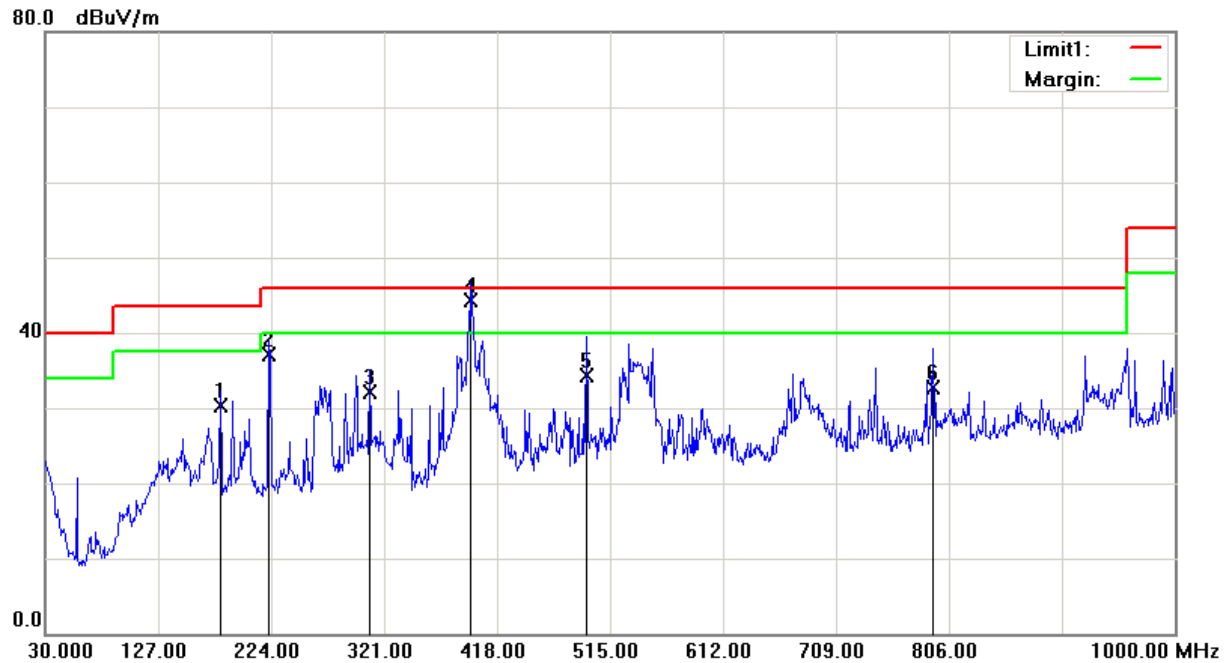
80.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.6700	34.91	QP	-6.61	28.30	40.00	11.70
74.6200	37.05	QP	-11.85	25.20	40.00	14.80
450.0100	37.09	QP	-2.29	34.80	46.00	11.20
780.7800	30.20	QP	2.50	32.70	46.00	13.30
666.3200	31.72	QP	0.58	32.30	46.00	13.70
820.5500	28.46	QP	2.94	31.40	46.00	14.60

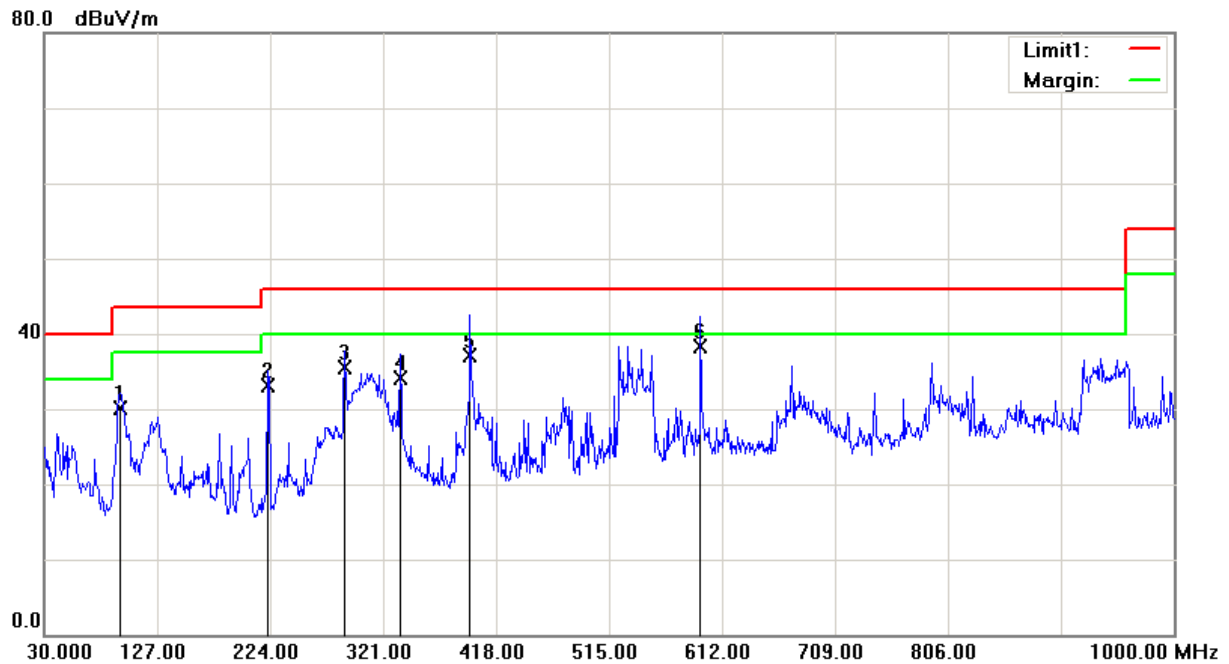
Test mode: HDMI Playing

Horizontal:



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
180.3500	38.91	QP	-8.61	30.30	43.50	13.20
222.0600	45.35	QP	-8.15	37.20	46.00	8.80
308.3900	37.61	QP	-5.41	32.20	46.00	13.80
395.6900	47.77	QP	-3.47	44.30	46.00	1.70*
494.6300	35.76	QP	-1.46	34.30	46.00	11.70
792.4200	30.20	QP	2.60	32.80	46.00	13.20

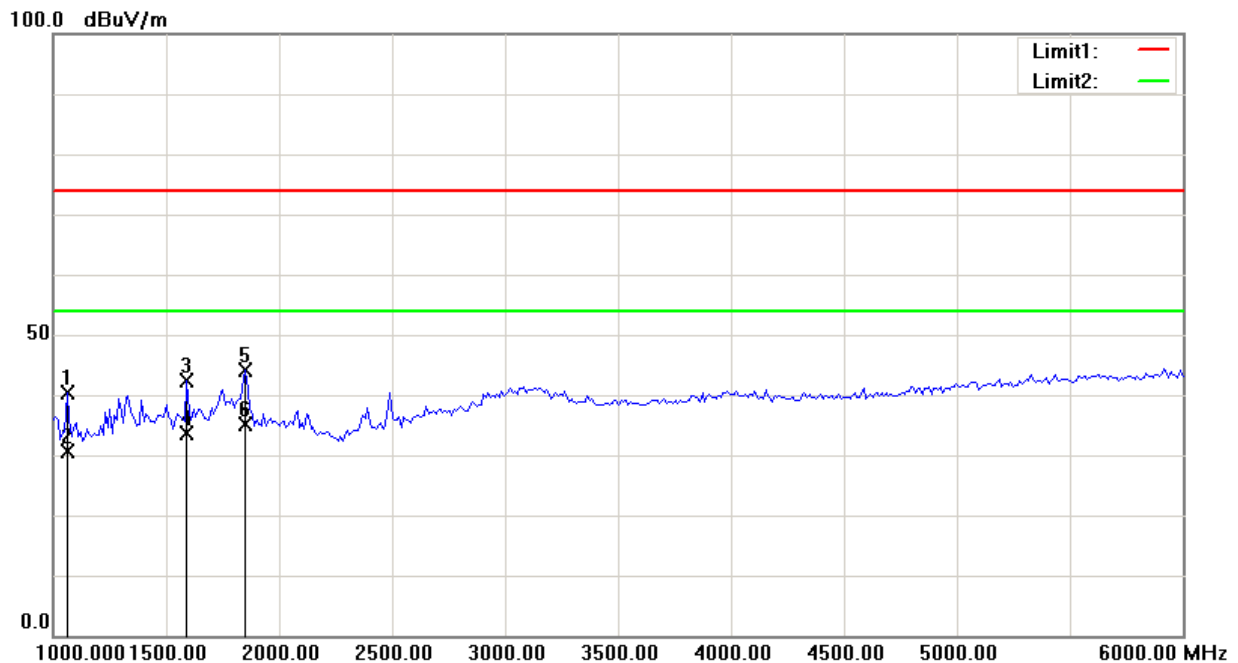
*Within measurement uncertainty!

Vertical:

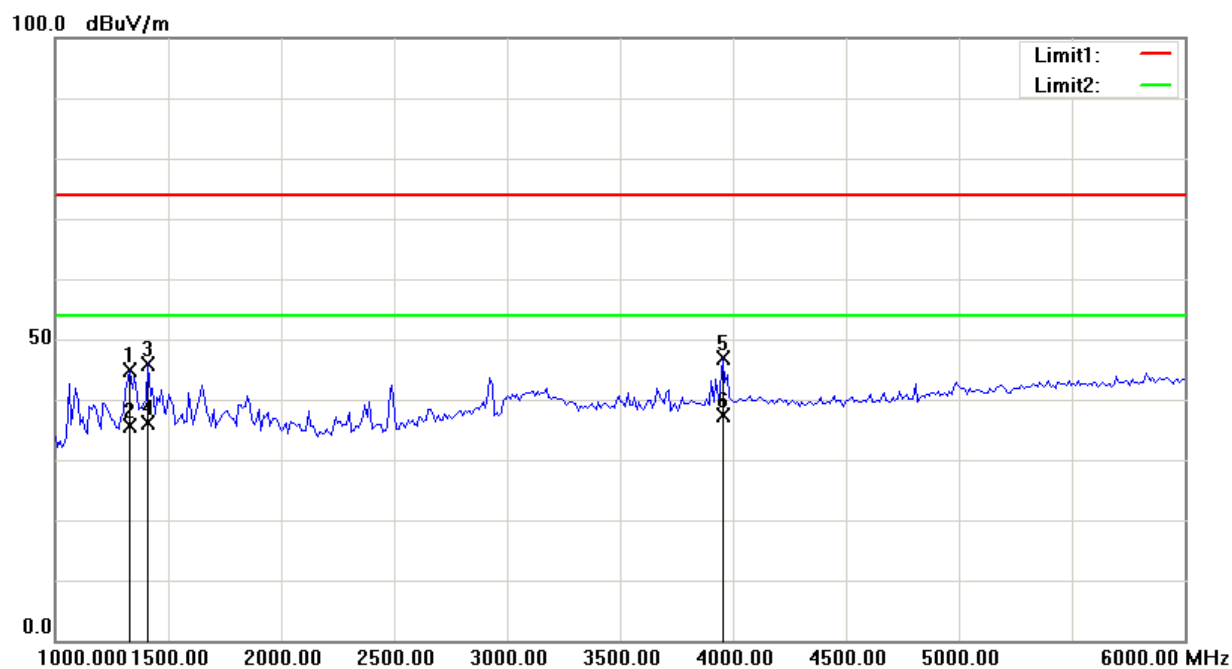
Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
94.9900	41.43	QP	-11.23	30.20	43.50	13.30
222.0600	41.25	QP	-8.15	33.10	46.00	12.90
288.0200	41.30	QP	-5.70	35.60	46.00	10.40
335.5500	39.09	QP	-4.89	34.20	46.00	11.80
395.6900	40.67	QP	-3.47	37.20	46.00	8.80
593.5700	38.47	QP	-0.17	38.30	46.00	7.70

2) Above 1G:

Test mode: USB Downloading

Horizontal:

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1060.120	42.39	peak	-2.09	40.30	74.00	33.70
1060.120	32.61	AVG	-2.09	30.52	54.00	23.48
1591.182	42.29	peak	0.10	42.39	74.00	31.61
1591.182	33.47	AVG	0.10	33.57	54.00	20.43
1851.703	43.06	peak	1.01	44.07	74.00	29.93
1851.703	34.05	AVG	1.01	35.06	54.00	18.94

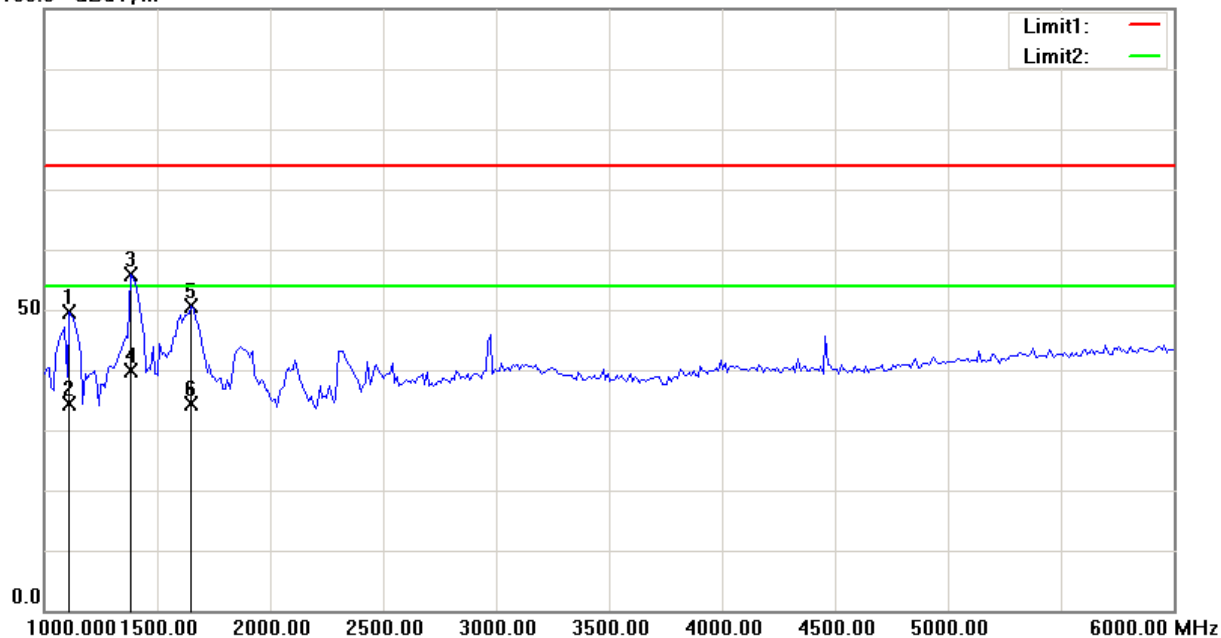
Vertical:

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1330.661	45.95	peak	-1.04	44.91	74.00	29.09
1330.661	36.56	AVG	-1.04	35.52	54.00	18.48
1410.822	46.43	peak	-0.65	45.78	74.00	28.22
1410.822	36.89	AVG	-0.65	36.24	54.00	17.76
3955.912	39.14	peak	7.75	46.89	74.00	27.11
3955.912	29.67	AVG	7.75	37.42	54.00	16.58

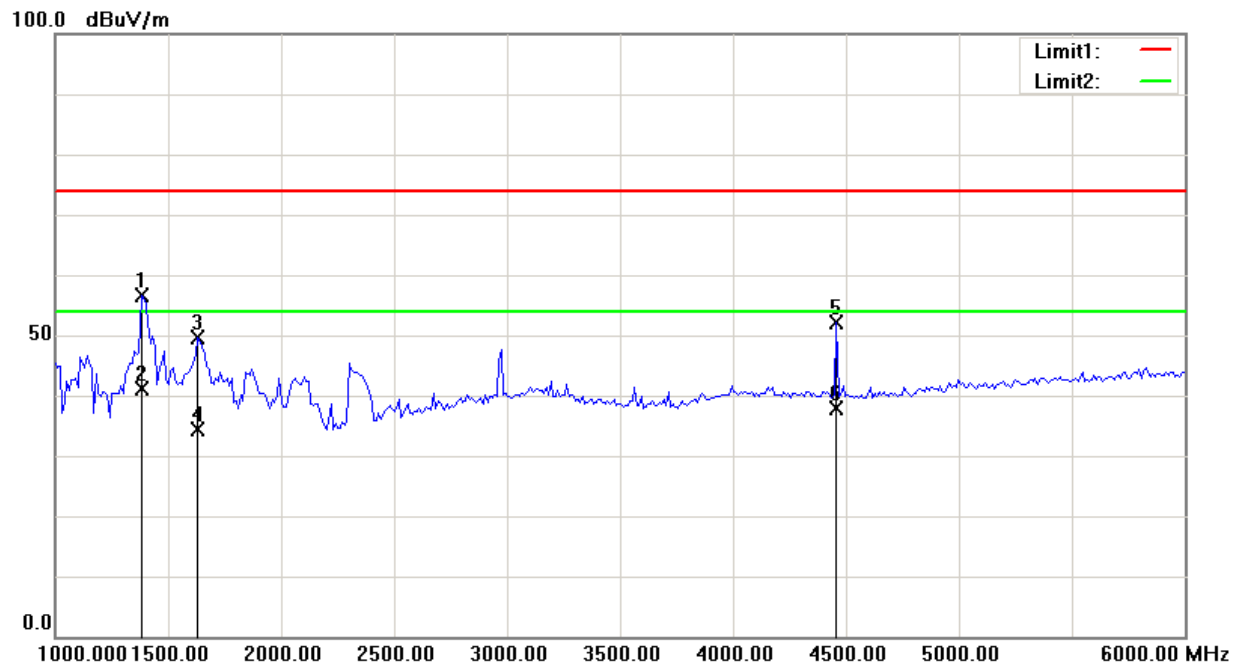
Test mode: HDMI Playing

Horizontal:

100.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1110.220	51.59	peak	-1.92	49.67	74.00	24.33
1110.220	36.23	AVG	-1.92	34.31	54.00	19.69
1380.762	56.56	peak	-0.79	55.77	74.00	18.23
1380.762	40.61	AVG	-0.79	39.82	54.00	14.18
1651.303	50.24	peak	0.38	50.62	74.00	23.38
1651.303	33.97	AVG	0.38	34.35	54.00	19.65

Vertical:

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1380.762	57.31	peak	-0.79	56.52	74.00	17.48
1380.762	42.02	AVG	-0.79	41.23	54.00	12.77
1631.263	49.25	peak	0.28	49.53	74.00	24.47
1631.263	34.08	AVG	0.28	34.36	54.00	19.64
4456.914	44.15	peak	8.00	52.15	74.00	21.85
4456.914	29.81	AVG	8.00	37.81	54.00	16.19

DECLARATION OF SIMILARITY



Action Electronics Co Ltd.
ADD: No. 198, Chung Yuan Road Chung, Chung Li, Taiwan
Tel: 88634515494 Fax: 88634629341

DECLARATION OF SIMILARITY

Date: 2013-10-8

To:
Bay Area Compliance Laboratories Corp. (Dongguan)
No. 69 Pulong Village Puxinhu Industry Zone Tangxia,
Dongguan, China
<http://www.baclcorp.com>

Dear Sir or Madam:

We, Action Electronics Co Ltd., hereby declare that product: 7" Tablet PC , models: T752 MID, AD7L are electrically identical with the model: MID30701 which was tested by BACL with the same electromagnetic emissions and electromagnetic compatibility characteristics. The results of which are featured in BACL project:

A description of the differences between the tested model and those that are declared similar areas follows:

They just have different model name and appearance of silk screen.

Please contact me should there be need for any additional clarification or information.

Best Regards,



Tanliang Lee
RD Manager

***** END OF REPORT *****