

FCC PART 15B

TEST REPORT

For

SHUOYING INDUSTRIAL(SHENZHEN)CO.,LTD.

NO.1 Shuoying Rd., Hebei Industry Area, Dalang, Longhua Town, Baoan,Shenzhen,China.

FCC ID: XJN-PA0942X

Report Type: Original Report	Product Type: Mobile Internet Devices
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Report Number: R2DG130809021-00A	
Report Date: 2013-09-10	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SHUOYING INDUSTRIAL(SHENZHEN)CO.,LTD.*'s product, model number: *PA0942 (FCC ID: XJN-PA0942X)* (the "EUT") in this report was a *Mobile Internet Devices*, which was measured approximately: 24.0cm (L) x 18.8 cm (W) x 1.0 cm (H), rated input voltage: DC 3.7 V from lithium battery or DC 5V from adapter.

Adapter information: Flypower
Model: PS14K0502000U5
Input: AC 100-240V, 50/60Hz, 0.35A
Output: DC 5V, 2000mA

** All measurement and test data in this report was gathered from production sample serial number: 130809021 (Assigned by BACL.Dongguan). The EUT was received on 2013-08-12.*

Objective

This report is prepared on behalf of *SHUOYING INDUSTRIAL(SHENZHEN)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: *XJN-PA0942X* for Wifi.
FCC Part 15C DTS submissions with FCC ID: *XJN-PA0942X* for Bluetooth LE mode.
FCC Part 15C DSS submissions with FCC ID: *XJN-PA0942X* for Bluetooth BDR, EDR mode.

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

No software was used.

Equipment Modifications

No equipment modification was used.

Local Support Equipment List and Details

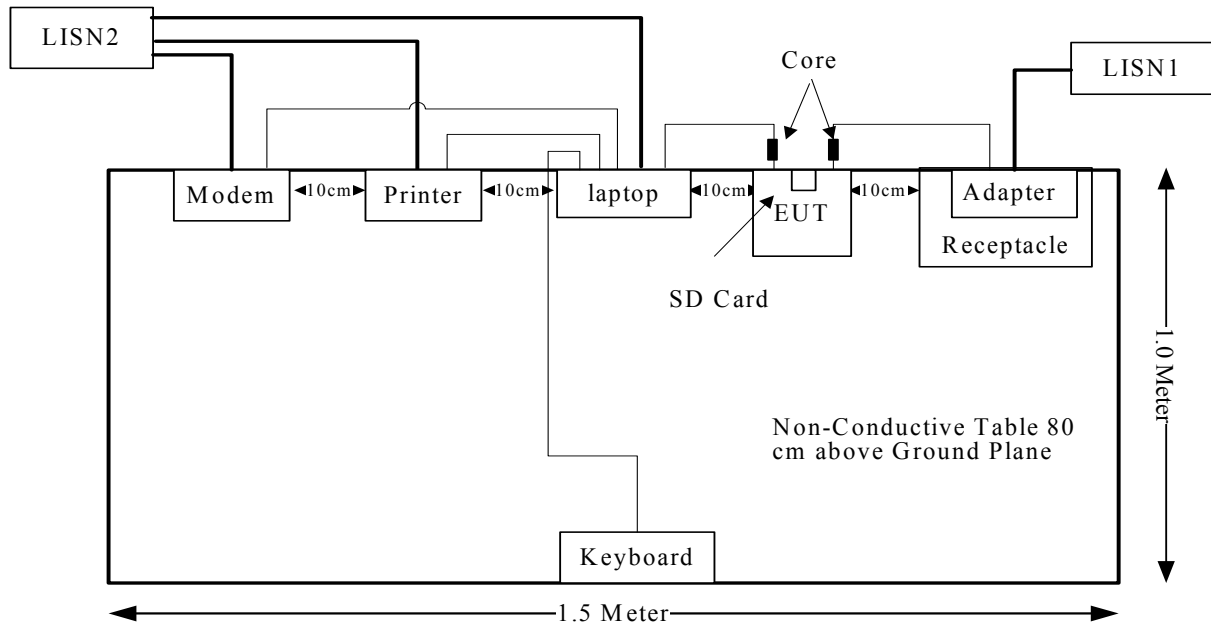
Manufacturer	Description	Model	Serial Number
HP	Printer	C3941A	JPTVOB2337
SAST	Modem	AEM-2100	0293
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Laptop	PP11L	N/A
DELL	LCD Monitor	U3011t	CN-OPH5NY-74445-16T-290L
Kinston	Micro SD Card	4G	N/A

External I/O Cable

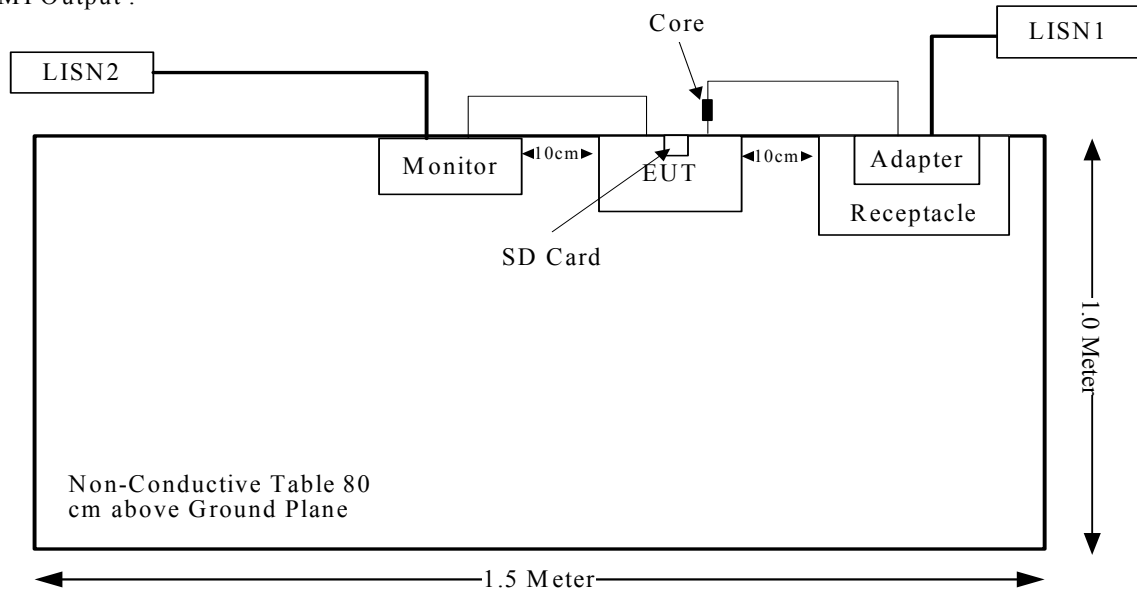
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Printer Cable	Yes	No	1.2	Parallel Port of Laptop	Printer
Serial Cable	Yes	No	1.2	Serial Port of Laptop	Modem
Keyboard Cable	Yes	No	1.5	Keyboard Port of Laptop	Keyboard
USB Cable	Yes	Yes	0.7	USB Port of Laptop/Adapter	EUT
HDMI Cable	Yes	No	1.0	HDMI Port of 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:

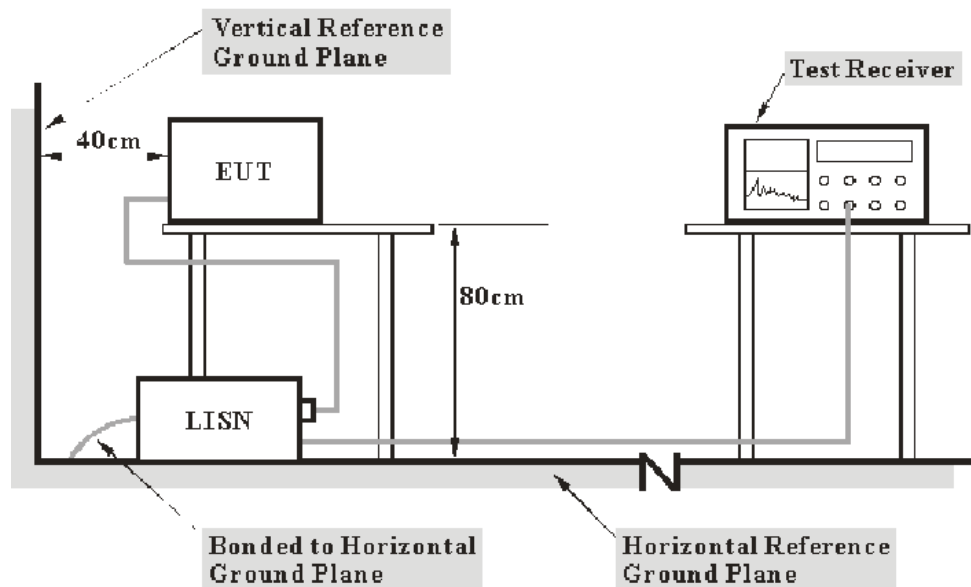
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

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 RECIEVER	ESCS 30	830245/006	2013-1-10	2014-1-9
R&S	L.I.S.N	ESH3-Z5	843331/015	2012-9-17	2013-9-16
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:

8.19 dB at 0.450 MHz in the **Line** conducted mode of USB Downloading mode.

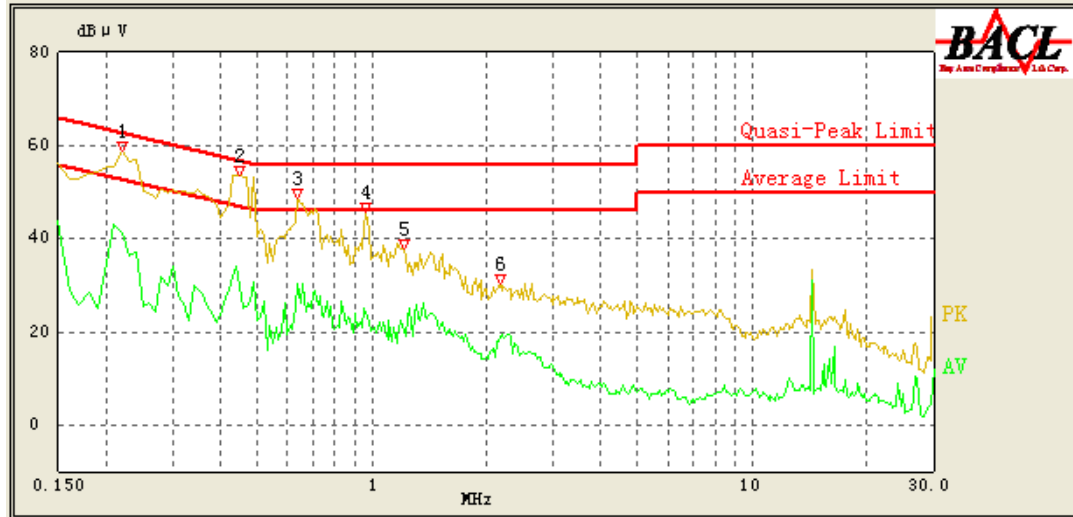
Test Data**Environmental Conditions**

Temperature:	27.4 °C
Relative Humidity:	65 %
ATM Pressure:	99.6 kPa

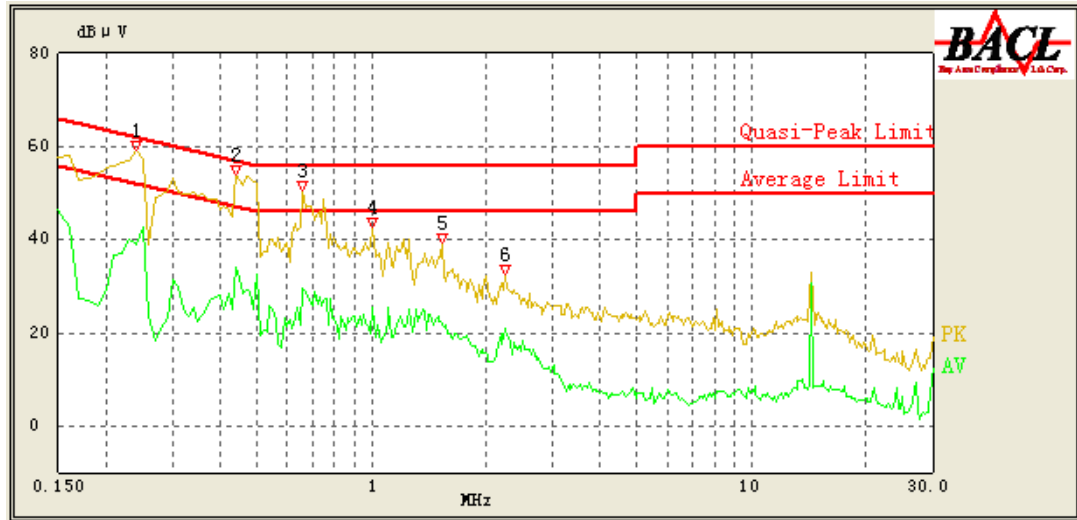
The testing was performed by Ares Liu on 2013-09-09.

Test mode: USB Downloading

120 V, 60 Hz, Line:



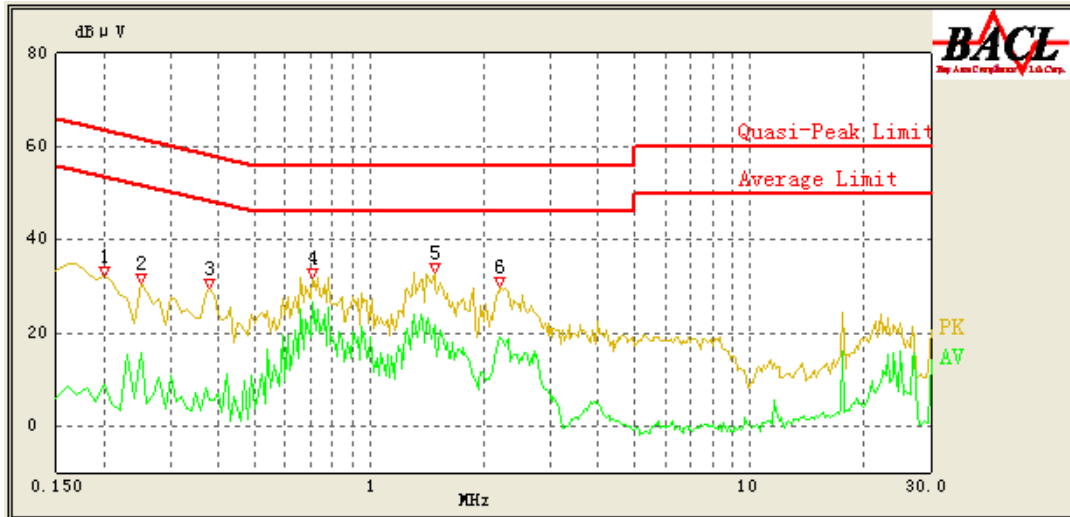
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.220	53.14	0.41	62.82	9.68	QP
0.220	41.35	0.41	52.82	11.47	AV
0.450	48.69	0.32	56.88	8.19	QP
0.450	29.87	0.32	46.88	17.01	AV
0.640	37.92	0.31	56.00	18.08	QP
0.640	30.24	0.31	46.00	15.76	AV
0.960	33.62	0.32	56.00	22.38	QP
0.970	23.19	0.32	46.00	22.81	AV
1.210	31.32	0.33	56.00	24.68	QP
1.210	20.03	0.33	46.00	25.97	AV
2.170	23.19	0.36	56.00	32.81	QP
2.150	17.92	0.36	46.00	28.08	AV

120 V, 60 Hz, Neutral:

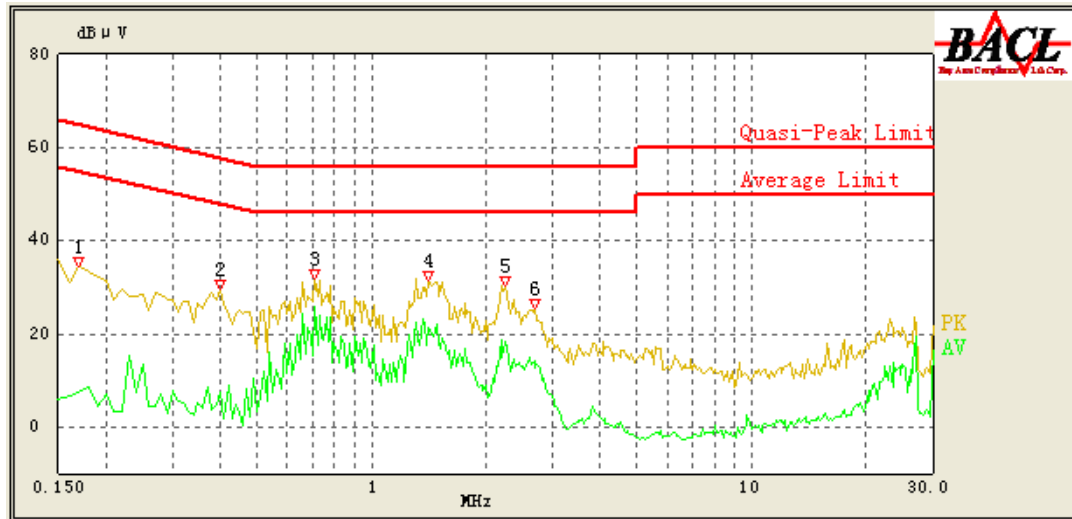
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.240	52.79	0.24	62.10	9.31	QP
0.240	39.04	0.24	52.10	13.06	AV
0.440	42.22	0.22	57.06	14.84	QP
0.440	34.23	0.22	47.06	12.83	AV
0.660	40.47	0.22	56.00	15.53	QP
0.660	29.51	0.22	46.00	16.49	AV
1.000	33.22	0.23	56.00	22.78	QP
1.000	25.62	0.23	46.00	20.38	AV
1.530	28.91	0.25	56.00	27.09	QP
1.530	22.00	0.25	46.00	24.00	AV
2.250	27.56	0.28	56.00	28.44	QP
2.250	20.96	0.28	46.00	25.04	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)
0.200	23.74	0.43	63.61	39.87	QP
0.200	8.84	0.43	53.61	44.77	AV
0.250	23.05	0.38	61.76	38.71	QP
0.250	15.76	0.38	51.76	36.00	AV
0.380	24.37	0.33	58.28	33.91	QP
0.380	5.71	0.33	48.28	42.57	AV
0.710	30.74	0.31	56.00	25.26	QP
0.710	26.52	0.31	46.00	19.48	AV
1.480	30.09	0.34	56.00	25.91	QP
1.480	21.61	0.34	46.00	24.39	AV
2.210	22.07	0.37	56.00	33.93	QP
2.220	18.71	0.37	46.00	27.29	AV

120 V, 60 Hz, Neutral:

Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.170	25.42	0.26	64.96	39.54	QP
0.170	7.40	0.26	54.96	47.56	AV
0.400	22.32	0.22	57.85	35.53	QP
0.400	7.46	0.22	47.85	40.39	AV
0.710	29.00	0.22	56.00	27.00	QP
0.710	25.76	0.22	46.00	20.24	AV
1.410	28.73	0.25	56.00	27.27	QP
1.410	21.37	0.25	46.00	24.63	AV
2.250	27.54	0.28	56.00	28.46	QP
2.250	18.40	0.28	46.00	27.60	AV
2.700	20.51	0.30	56.00	35.49	QP
2.700	12.58	0.30	46.00	33.42	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

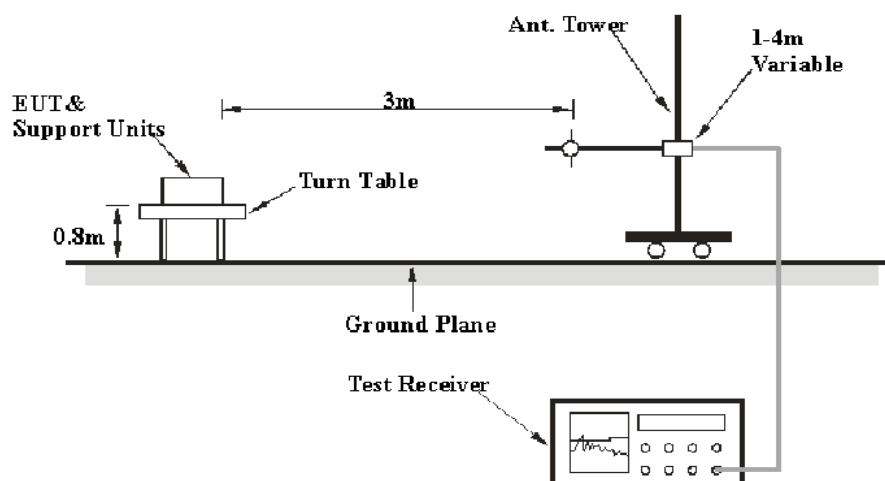
6G~18GHz: 5.23 dB

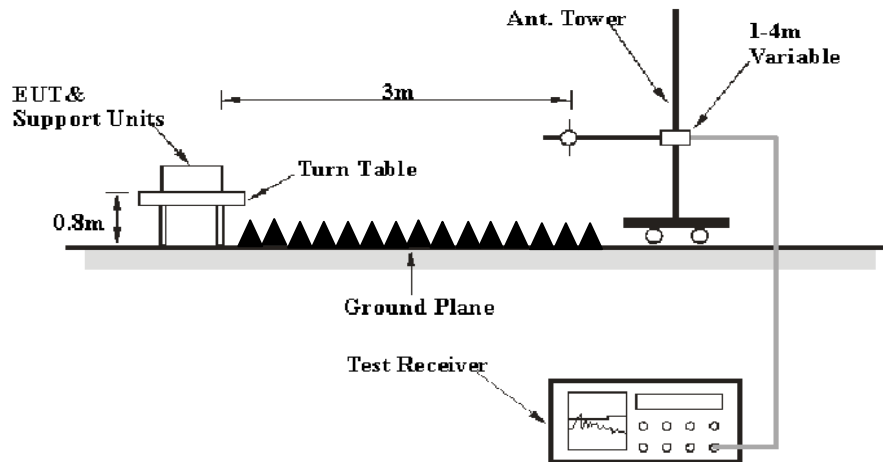
Table 2 – Values of U_{cisp}

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 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	2012-9-6	2015-9-5
HP	HP AMPLIFIER	8447E	2434A02181	N/A	N/A
R&S	Spectrum analyzer	FSEM 30	849016/001	2012-9-4	2013-9-3
ETS LINDGREN	horn antenna	3115	000 527 35	2012-9-6	2015-9-5
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	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:

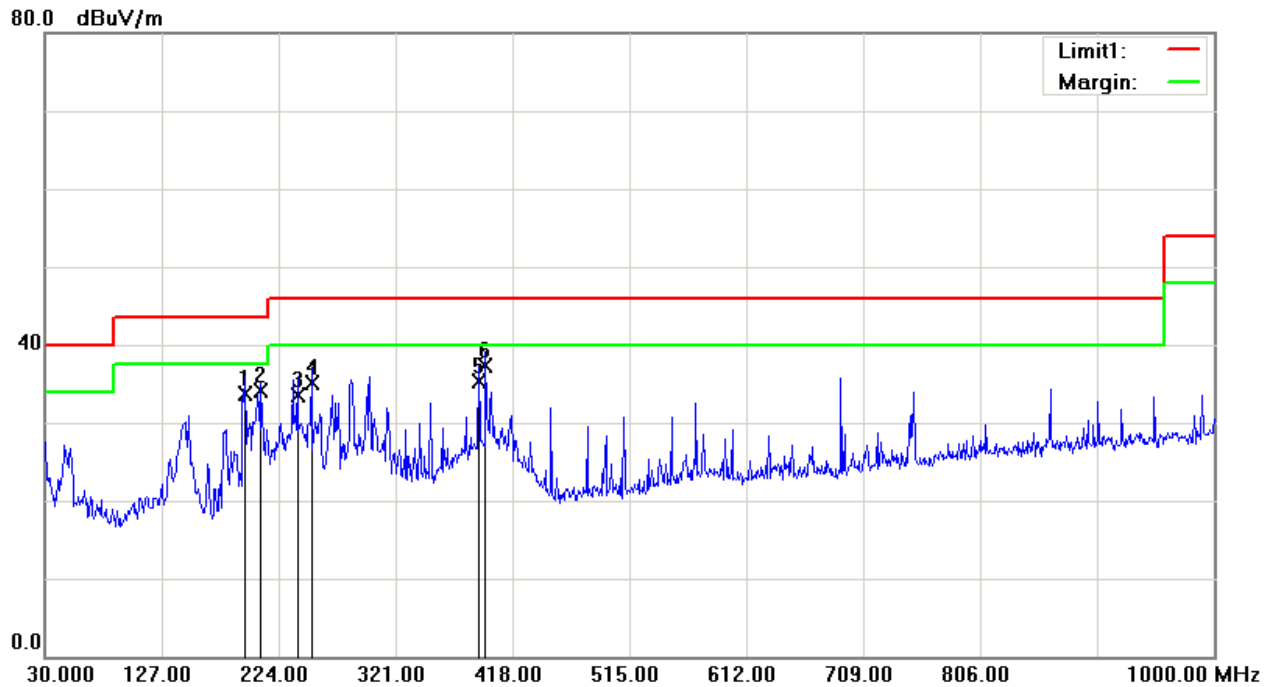
4.60 dB at 40.6700 MHz in the **Vertical** polarization of HDMI Playing mode

Test Data

Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	60 %
ATM Pressure:	100.5 kPa

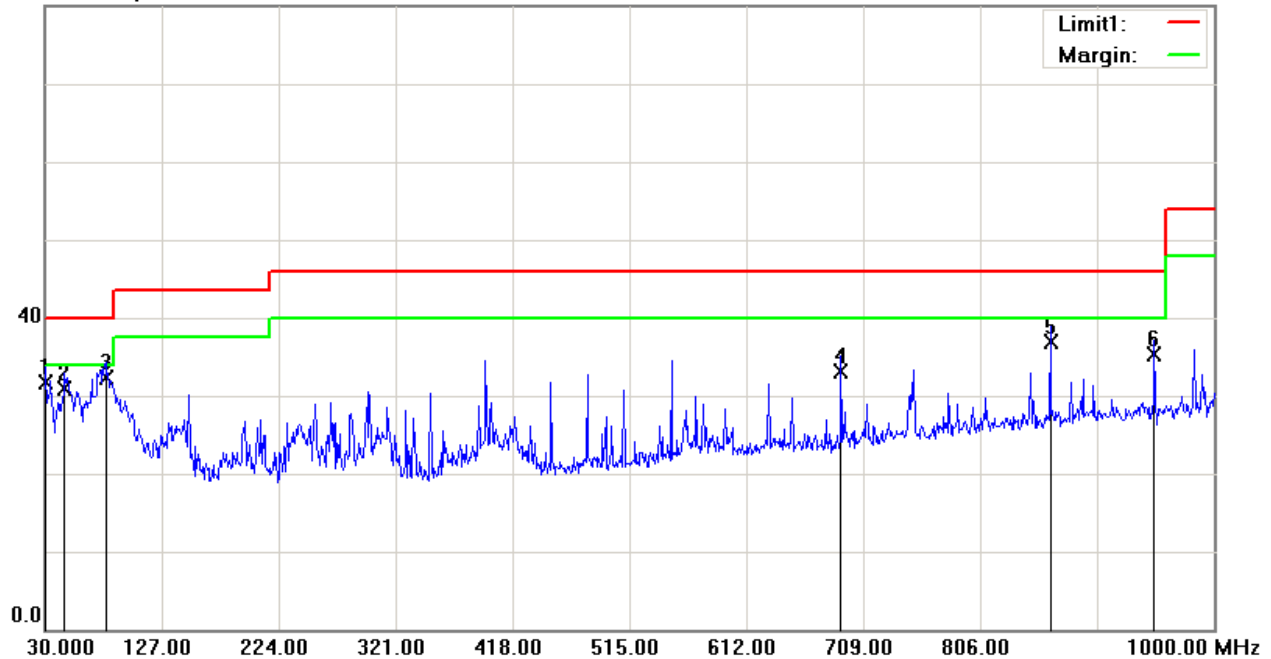
The testing was performed by Ares Liu on 2013-09-01.

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

Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
195.8700	41.56	QP	-7.76	33.80	43.50	9.70
208.4800	42.76	QP	-8.56	34.20	43.50	9.30
239.5200	41.20	QP	-7.60	33.60	46.00	12.40
251.1600	42.67	QP	-7.47	35.20	46.00	10.80
389.8700	38.98	QP	-3.58	35.40	46.00	10.60
395.6900	40.65	QP	-3.35	37.30	46.00	8.70

Vertical:

80.0 dBuV/m

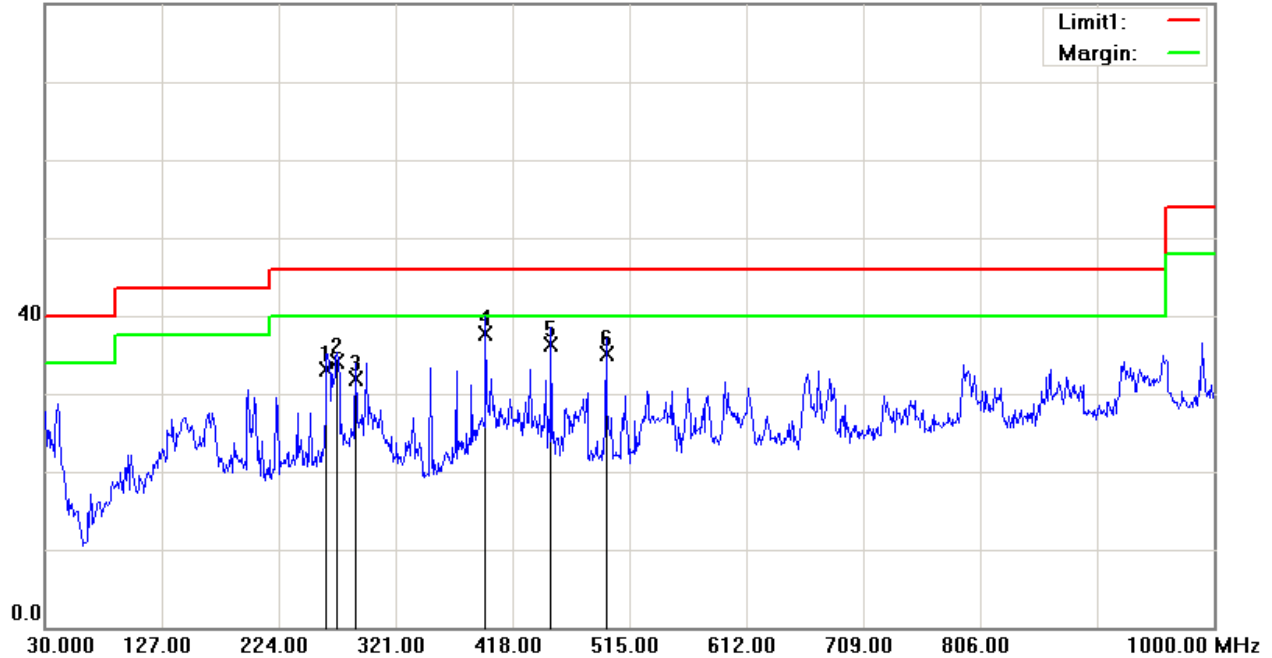


Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.0500	30.19	QP	1.51	31.70	40.00	8.30
46.4900	41.17	QP	-10.27	30.90	40.00	9.10
80.4400	44.55	QP	-12.25	32.30	40.00	7.70
690.5700	32.11	QP	1.09	33.20	46.00	12.80
864.2000	33.04	QP	3.86	36.90	46.00	9.10
950.5300	30.99	QP	4.41	35.40	46.00	10.60

Test mode: HDMI Output

Horizontal:

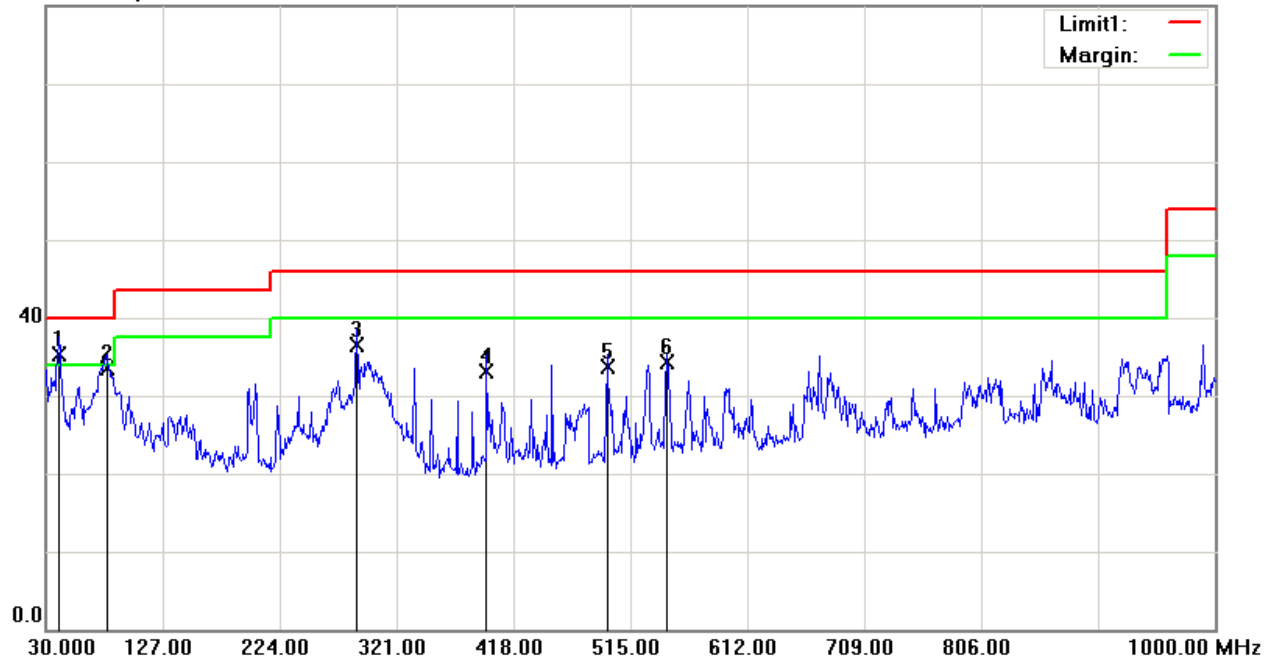
80.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
263.7700	39.53	QP	-6.33	33.20	46.00	12.80
272.5000	39.95	QP	-5.85	34.10	46.00	11.90
288.0200	37.60	QP	-5.70	31.90	46.00	14.10
395.6900	41.15	QP	-3.35	37.80	46.00	8.20
450.0100	38.69	QP	-2.29	36.40	46.00	9.60
495.6000	36.59	QP	-1.39	35.20	46.00	10.80

Vertical:

80.0 dBuV/m

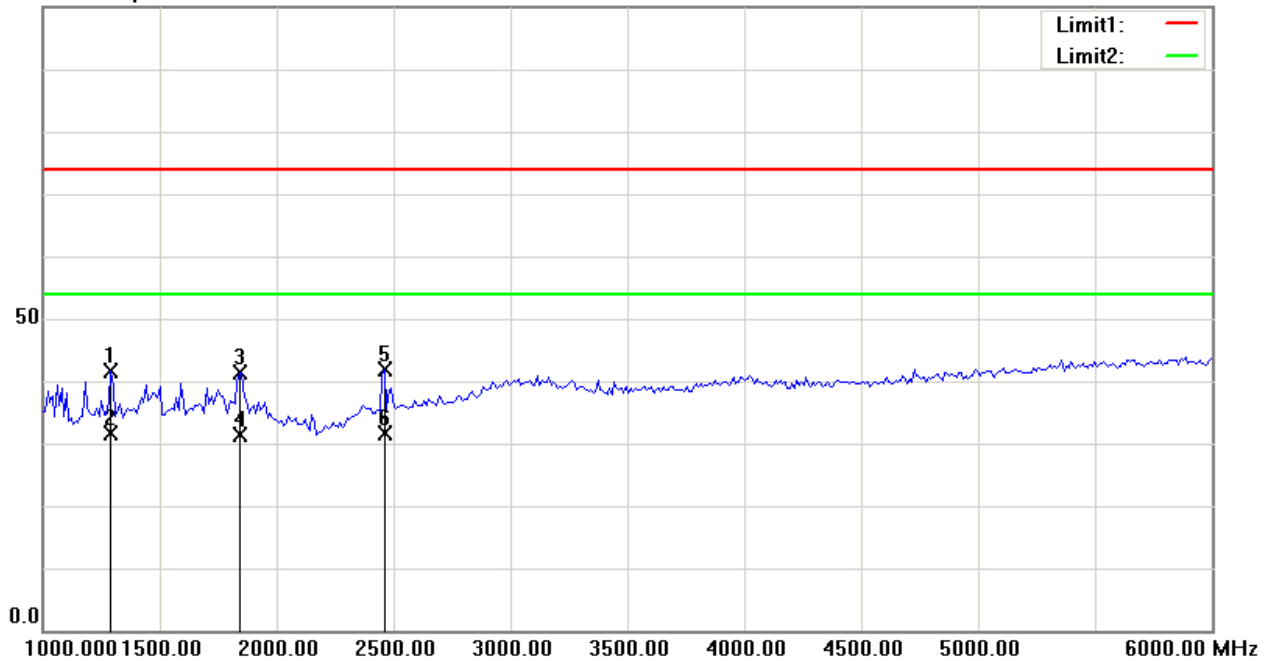


Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.6700	42.01	QP	-6.61	35.40	40.00	4.60*
80.4400	45.85	QP	-12.25	33.60	40.00	6.40
288.0200	42.20	QP	-5.70	36.50	46.00	9.50
395.6900	36.55	QP	-3.35	33.20	46.00	12.80
495.6000	35.09	QP	-1.39	33.70	46.00	12.30
545.0700	35.12	QP	-0.82	34.30	46.00	11.70

*Within measurement uncertainty!

2) Above 1G:*Test mode: USB Downloading***Horizontal:**

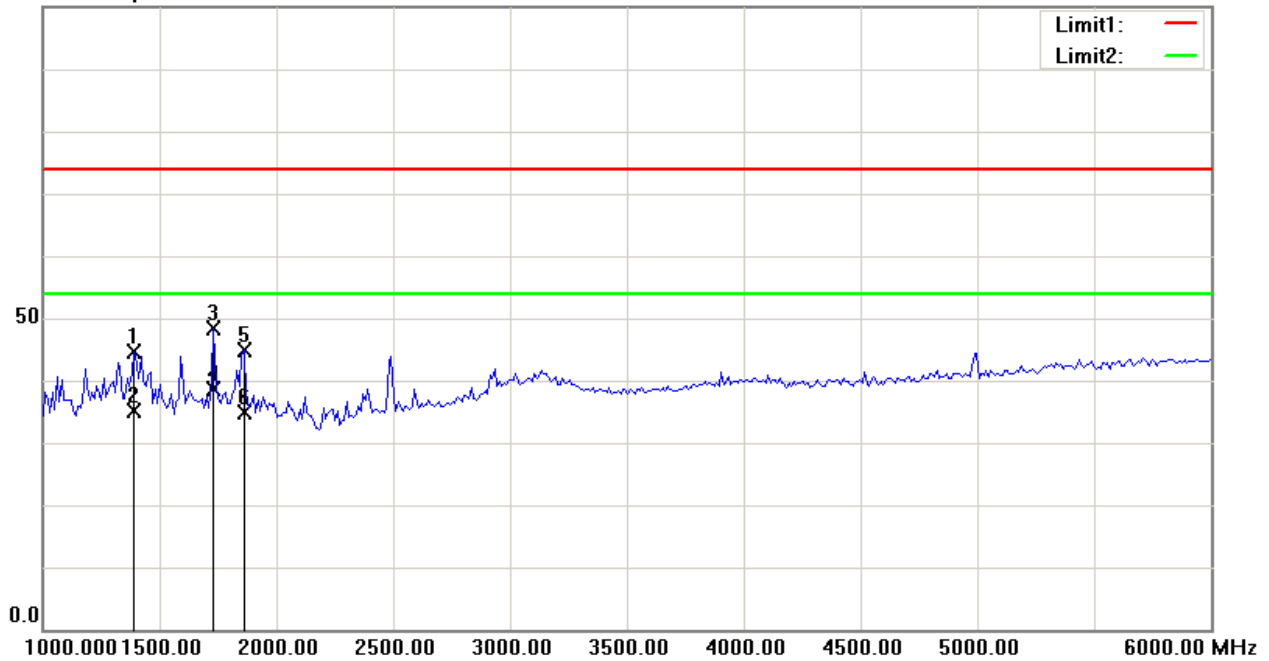
100.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1290.581	42.81	peak	-1.25	41.56	74.00	32.44
1290.581	32.97	AVG	-1.25	31.72	54.00	22.28
1841.683	40.43	peak	0.96	41.39	74.00	32.61
1841.683	30.37	AVG	0.96	31.33	54.00	22.67
2462.926	38.75	peak	3.02	41.77	74.00	32.23
2462.926	28.63	AVG	3.02	31.65	54.00	22.35

Vertical:

100.0 dBuV/m

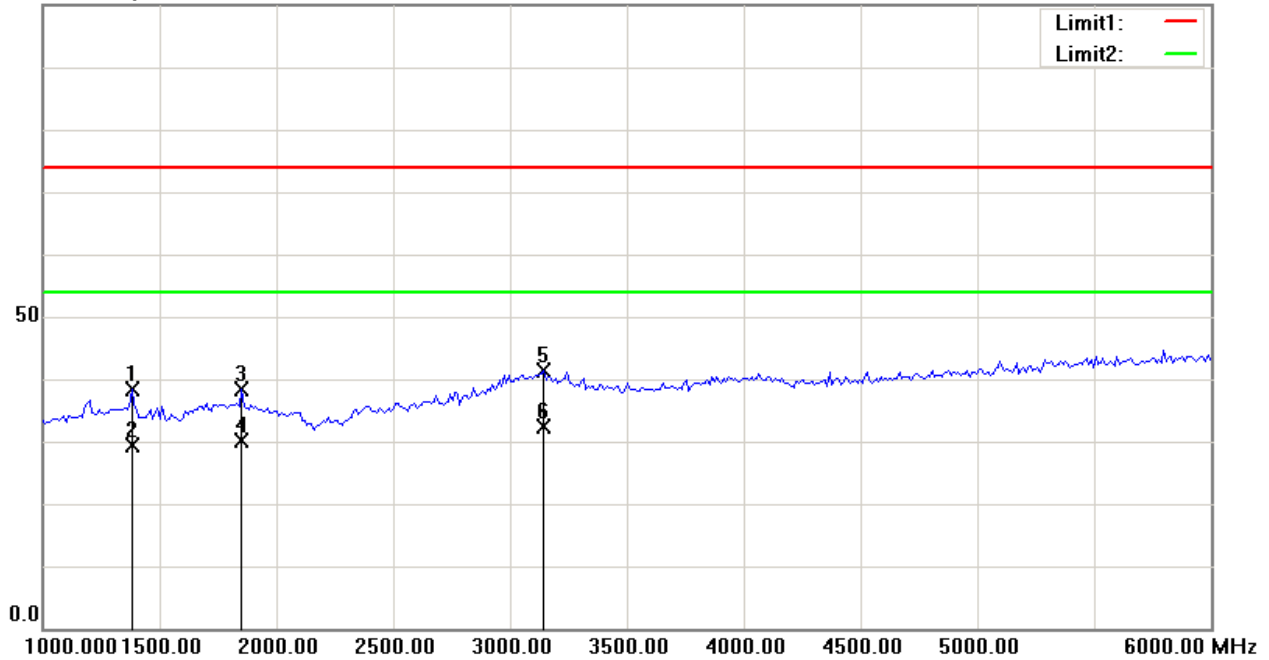


Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1390.782	45.26	peak	-0.75	44.51	74.00	29.49
1390.782	35.91	AVG	-0.75	35.16	54.00	18.84
1731.463	47.60	peak	0.66	48.26	74.00	25.74
1731.463	37.99	AVG	0.66	38.65	54.00	15.35
1861.723	43.90	peak	1.00	44.90	74.00	29.10
1861.723	33.92	AVG	1.00	34.92	54.00	19.08

Test mode: HDMI Output

Horizontal:

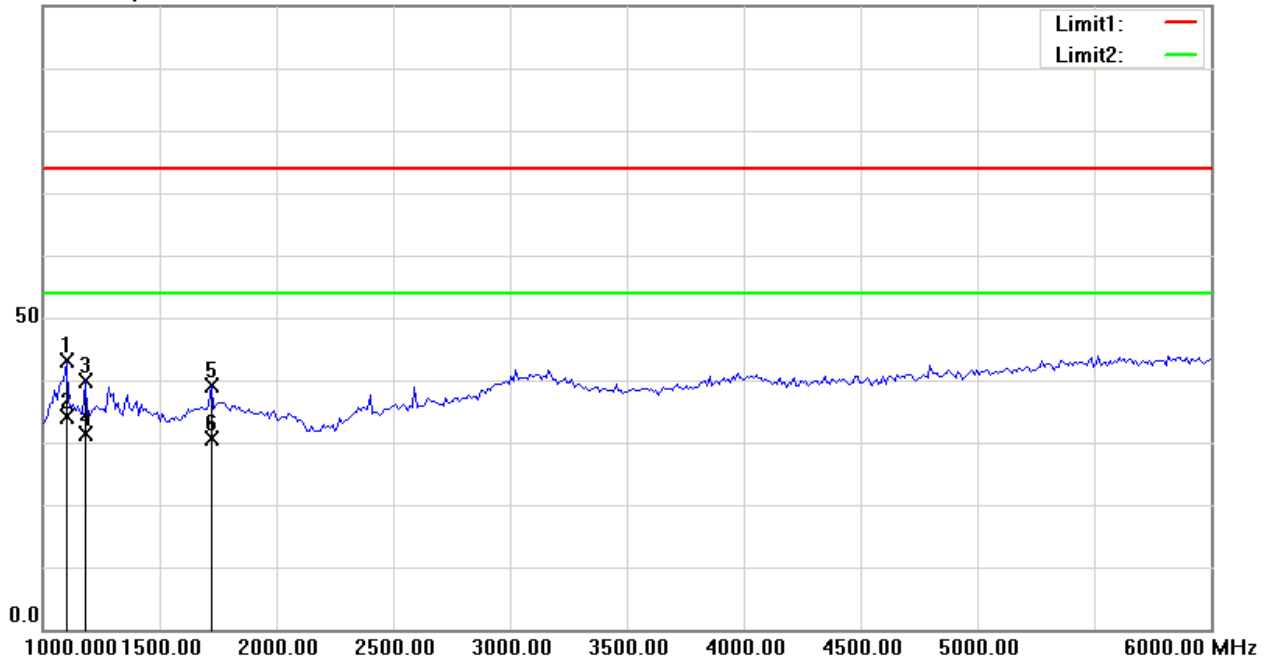
100.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1380.762	39.19	peak	-0.79	38.40	74.00	35.60
1380.762	30.15	AVG	-0.79	29.36	54.00	24.64
1851.703	37.30	peak	1.01	38.31	74.00	35.69
1851.703	29.20	AVG	1.01	30.21	54.00	23.79
3144.289	33.46	peak	7.81	41.27	74.00	32.73
3144.289	24.55	AVG	7.81	32.36	54.00	21.64

Vertical:

100.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1100.200	45.04	peak	-1.97	43.07	74.00	30.93
1100.200	36.10	AVG	-1.97	34.13	54.00	19.87
1180.361	41.54	peak	-1.70	39.84	74.00	34.16
1180.361	32.96	AVG	-1.70	31.26	54.00	22.74
1721.443	38.60	peak	0.59	39.19	74.00	34.81
1721.443	29.99	AVG	0.59	30.58	54.00	23.42

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