



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-PM0783X

Report Type: Original Report	Product Type: Mobile Internet Devices
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Report Number: R2DG131127001-00A	
Report Date: 2013-12-19	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.*'s product, model number: *PM0783 (FCC ID: XJN-PM0783X)* (the "EUT") in this report was a *Mobile Internet Devices*, which was measured approximately: 18.6cm (L) x 11.6 cm (W) x 0.9 cm (H), rated input voltage: DC 3.7 V from lithium battery or DC 5V from adapter.

Adapter information: SPPS
Model: SA/12PA/05FUS050200
Input: AC 100-240V, 50/60Hz, 0.5A
Output: DC 5.0V, 2A

** All measurement and test data in this report was gathered from production sample serial number: 131127001 (Assigned by BACL.Dongguan). The EUT was received on 2013-11-18.*

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-PM0783X* for Wifi.
FCC Part 15C DTS submissions with FCC ID: *XJN-PM0783X* for Bluetooth LE mode.
FCC Part 15C DSS submissions with FCC ID: *XJN-PM0783X* for Bluetooth BDR, EDR mode.
FCC Part 22H & 24E PCB submissions with FCC ID: *XJN- PM0783X*.

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 modification was made to the EUT.

Support Equipment List and Details

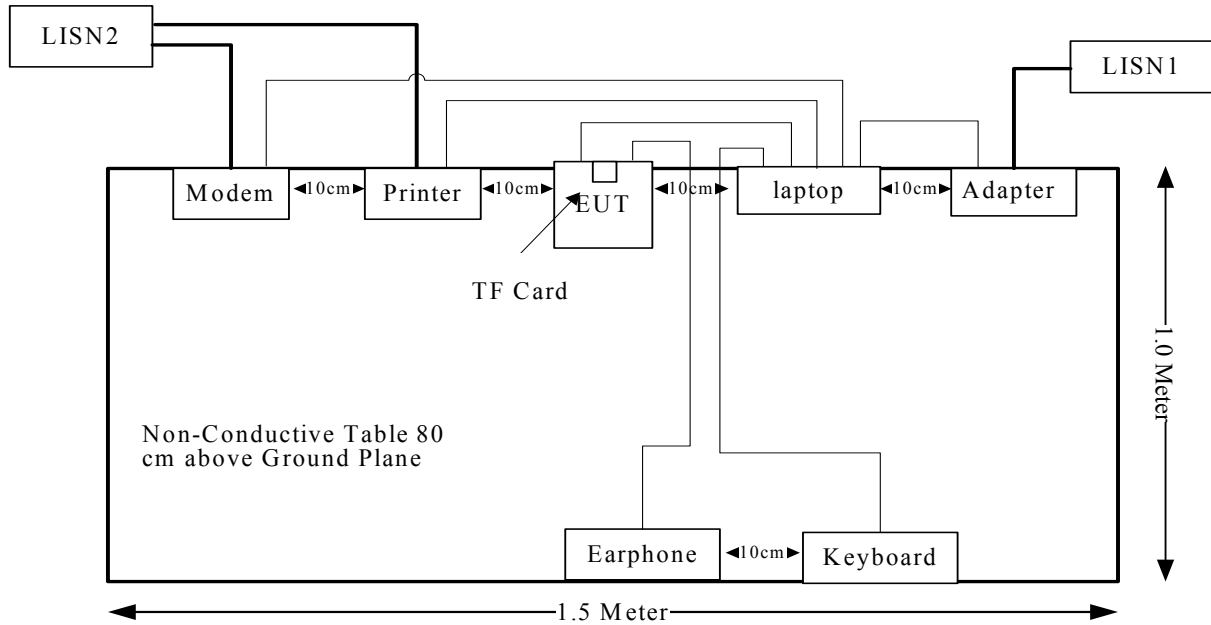
Manufacturer	Description	Model	Serial Number
HP	Printer	C3941A	JPTVOB2337
SAST	Modem	AEM-2100	0293
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Laptop	PP11L	N/A
SAMSUNG	Monitor	S22C330H	ZXDCHTHD10149K
SAMSUNG	TF Card	4G	N/A
N/A	Earphone	N/A	N/A

External I/O Cable

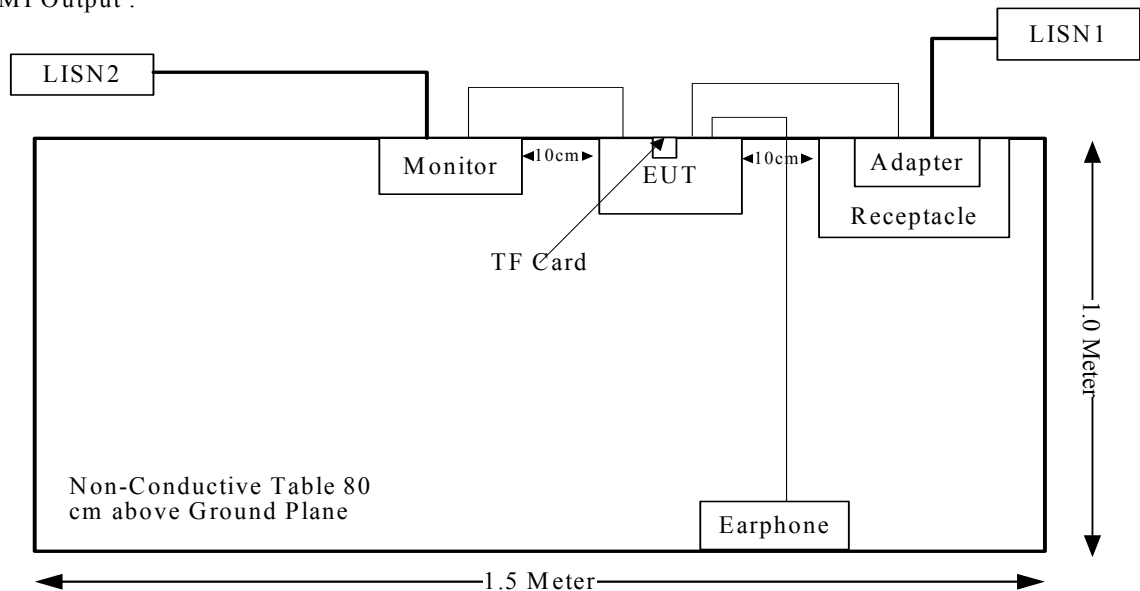
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Printer Cable	Yes	No	1.2	Parallel Port of Laptop	Printer
Serial Cable	Yes	No	1.2	Serial Port of Laptop	Modem
Keyboard Cable	Yes	Yes	1.5	Keyboard Port of Laptop	Keyboard
USB Cable	Yes	Yes	0.6	USB Port of Laptop/Adapter	EUT
HDMI Cable	Yes	No	0.5	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:

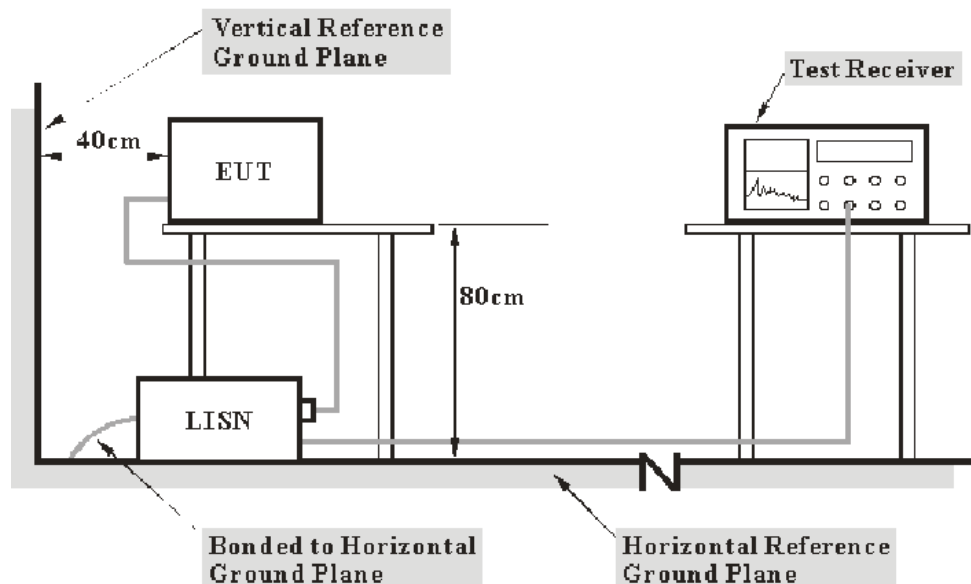
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

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 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	2013-11-20	2014-11-19
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	N/A	N/A
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:

3.54 dB at 1.335 MHz in the **Neutral** conducted mode of USB Downloading mode.

Test Data**Environmental Conditions**

Temperature:	24.4 °C
Relative Humidity:	39 %
ATM Pressure:	101.2 kPa

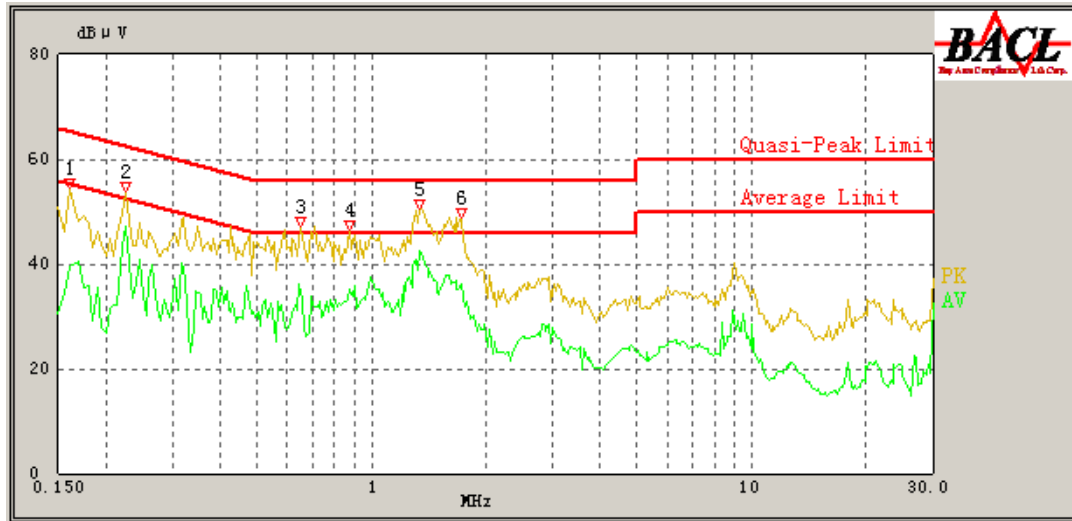
The testing was performed by Allen Qiao on 2013-12-13.

Test mode: USB Downloading

120 V, 60 Hz, Line:



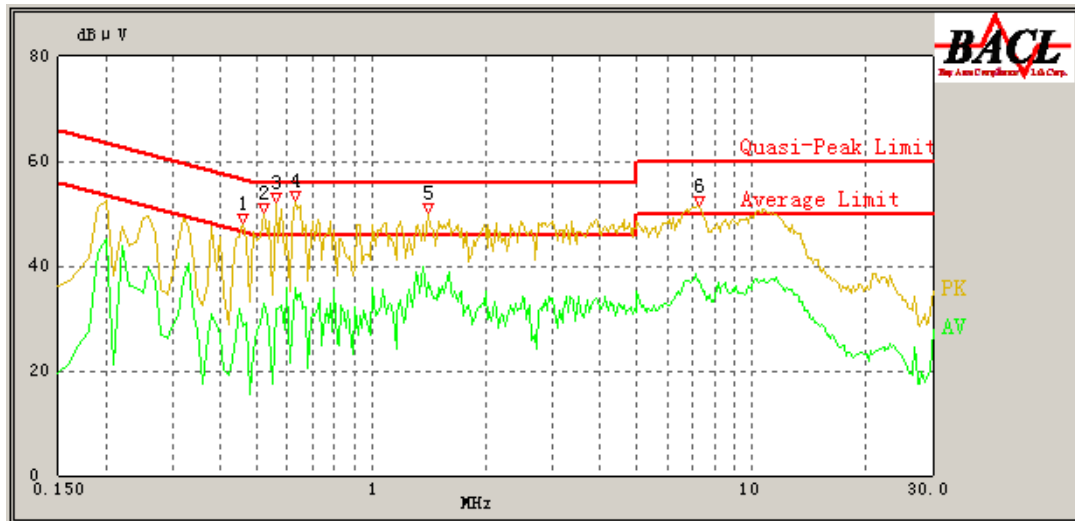
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.150	52.02	9.53	66.00	13.98	QP
0.150	41.03	9.53	56.00	14.97	AV
0.195	45.49	9.69	63.82	18.33	QP
0.195	38.15	9.69	53.82	15.69	AV
0.225	51.44	9.71	62.63	11.19	QP
0.225	48.04	9.71	52.63	4.23	AV
0.550	38.79	9.66	56.00	17.21	QP
0.555	27.95	9.66	46.00	18.05	AV
1.335	48.29	9.68	56.00	7.71	QP
1.335	42.20	9.68	46.00	3.80	AV
1.600	45.90	9.68	56.00	10.10	QP
1.600	36.73	9.68	46.00	9.27	AV

120 V, 60 Hz, Neutral:

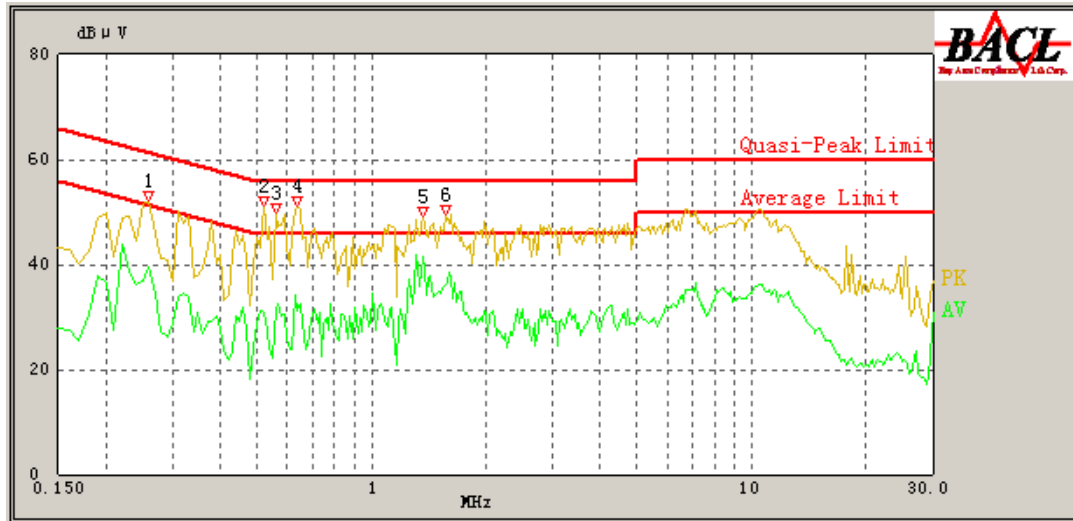
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.160	48.42	9.80	65.46	17.04	QP
0.160	39.56	9.80	55.46	14.90	AV
0.225	51.49	9.68	62.63	11.14	QP
0.225	47.29	9.68	52.63	5.34	AV
0.650	41.34	9.67	56.00	14.66	QP
0.645	36.21	9.67	46.00	9.79	AV
0.880	39.88	9.68	56.00	16.12	QP
0.880	35.23	9.68	46.00	10.77	AV
1.335	48.92	9.69	56.00	7.08	QP
1.335	42.46	9.69	46.00	3.54	AV
1.720	45.96	9.68	56.00	10.04	QP
1.720	36.04	9.68	46.00	9.96	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)
0.460	44.00	9.67	56.69	12.69	QP
0.460	28.53	9.67	46.69	18.16	AV
0.520	45.42	9.66	56.00	10.58	QP
0.520	32.67	9.66	46.00	13.33	AV
0.560	48.42	9.66	56.00	7.58	QP
0.560	31.75	9.66	46.00	14.25	AV
0.630	48.15	9.67	56.00	7.85	QP
0.630	35.69	9.67	46.00	10.31	AV
1.410	43.23	9.68	56.00	12.77	QP
1.410	36.82	9.68	46.00	9.18	AV
7.270	44.82	9.72	60.00	15.18	QP
7.250	37.06	9.72	50.00	12.94	AV

120 V, 60 Hz, Neutral:

Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.260	47.34	9.68	61.43	14.09	QP
0.260	39.57	9.68	51.43	11.86	AV
0.520	44.60	9.67	56.00	11.40	QP
0.520	30.83	9.67	46.00	15.17	AV
0.560	47.65	9.67	56.00	8.35	QP
0.560	31.58	9.67	46.00	14.42	AV
0.640	46.83	9.67	56.00	9.17	QP
0.640	31.33	9.67	46.00	14.67	AV
1.360	47.27	9.69	56.00	8.73	QP
1.360	41.47	9.69	46.00	4.53	AV
1.570	44.49	9.68	56.00	11.51	QP
1.580	36.54	9.68	46.00	9.46	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

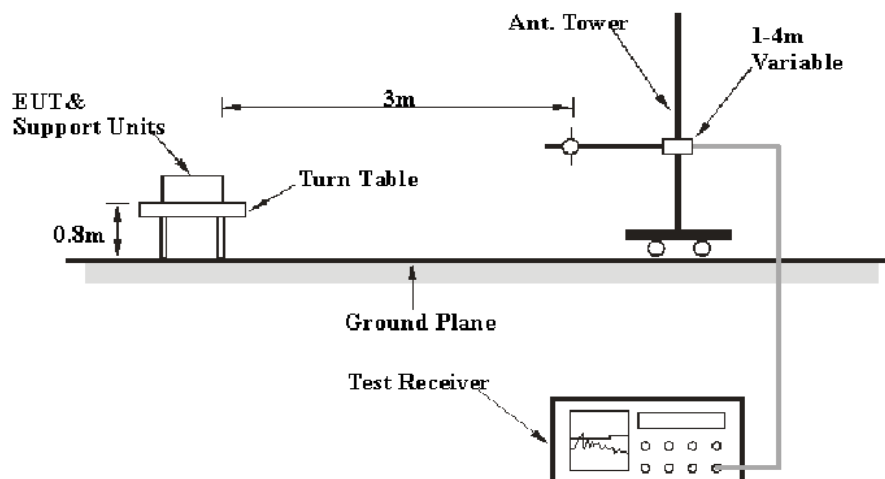
6G~18GHz: 5.23 dB

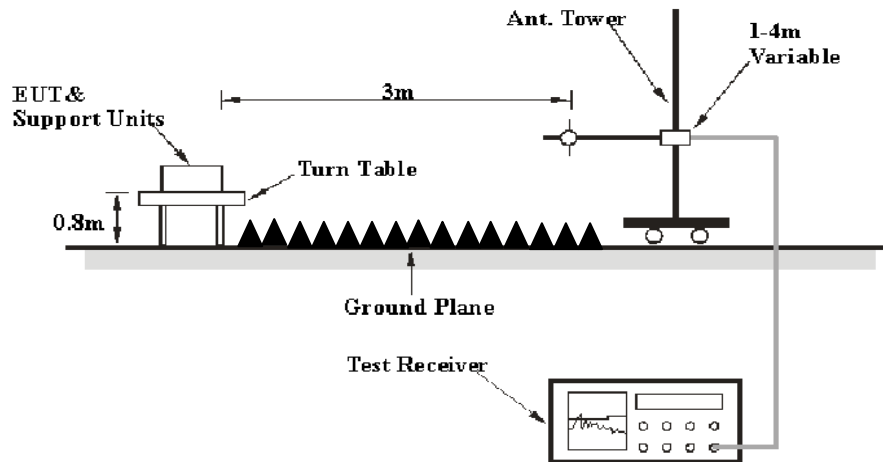
Table 2 – Values of U_{cisp}

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 1'GHz:

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	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:

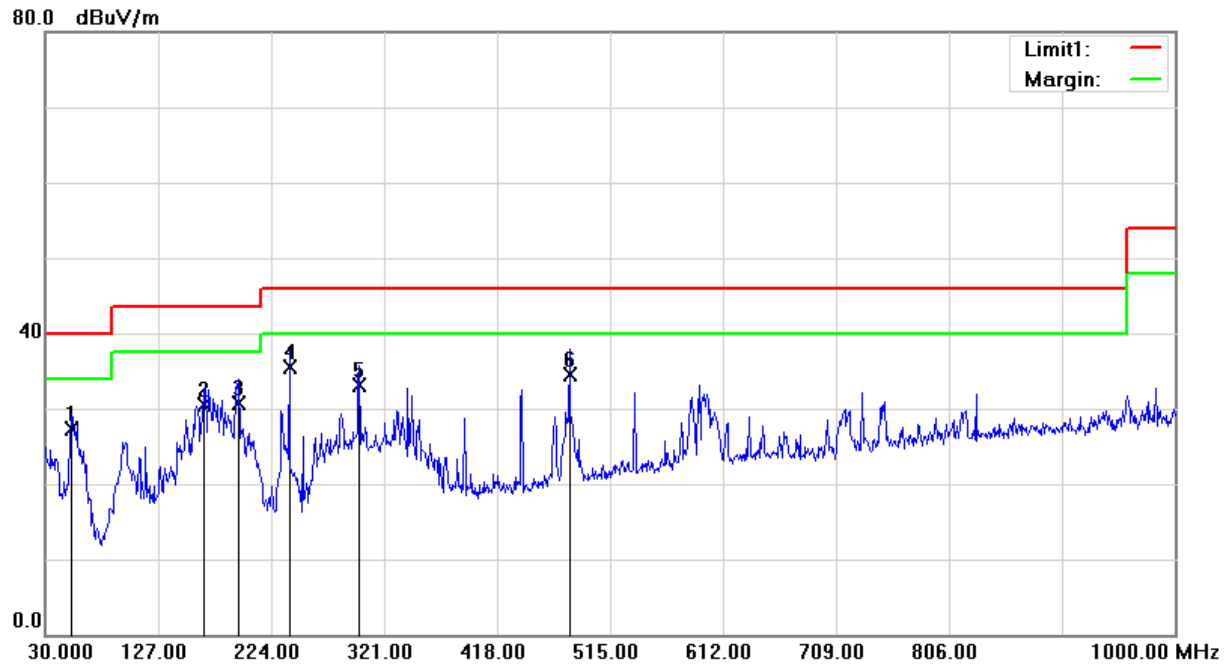
3.70 dB at 178.4100 MHz in the **Horizontal** polarization of HDMI playing mode

Test Data

Environmental Conditions

Temperature:	21.1 °C
Relative Humidity:	52 %
ATM Pressure:	101.1 kPa

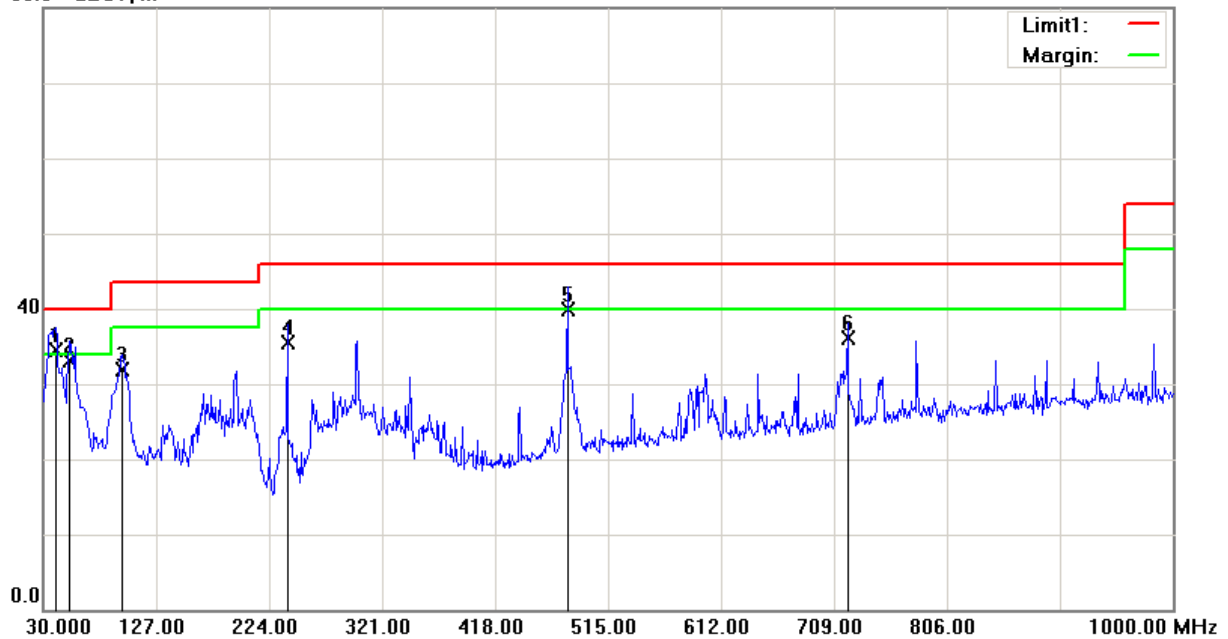
The testing was performed by Allen Qiao on 2013-12-16.

1) Below 1'GJ | :*Test mode: USB Downloading***Horizontal:**

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
52.3100	39.73	QP	-12.43	27.30	40.00	12.70
165.8000	38.11	QP	-7.61	30.50	43.50	13.00
195.8700	38.65	QP	-7.85	30.80	43.50	12.70
239.5200	43.24	QP	-7.64	35.60	46.00	10.40
299.6600	38.95	QP	-5.75	33.20	46.00	12.80
480.0800	36.05	QP	-1.45	34.60	46.00	11.40

Vertical:

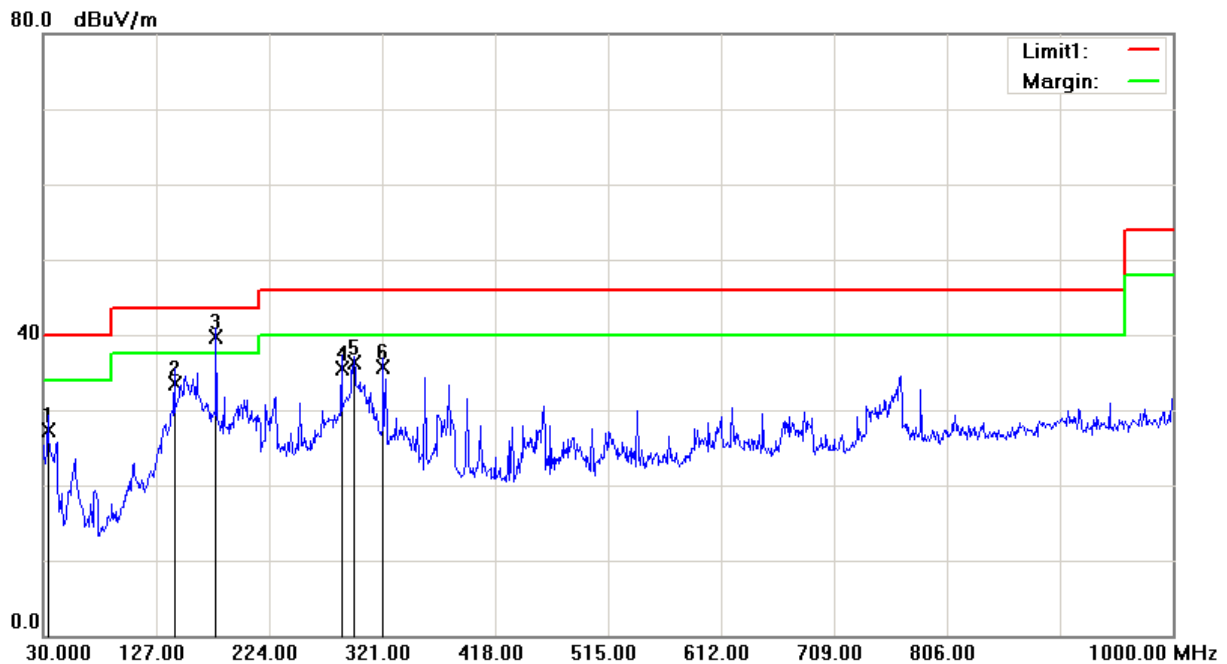
80.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.6700	41.29	QP	-6.69	34.60	40.00	5.40
52.3100	45.63	QP	-12.43	33.20	40.00	6.80
97.9000	42.18	QP	-10.28	31.90	43.50	11.60
239.5200	43.14	QP	-7.64	35.50	46.00	10.50
480.0800	41.35	QP	-1.45	39.90	46.00	6.10
720.6400	34.82	QP	1.38	36.20	46.00	9.80

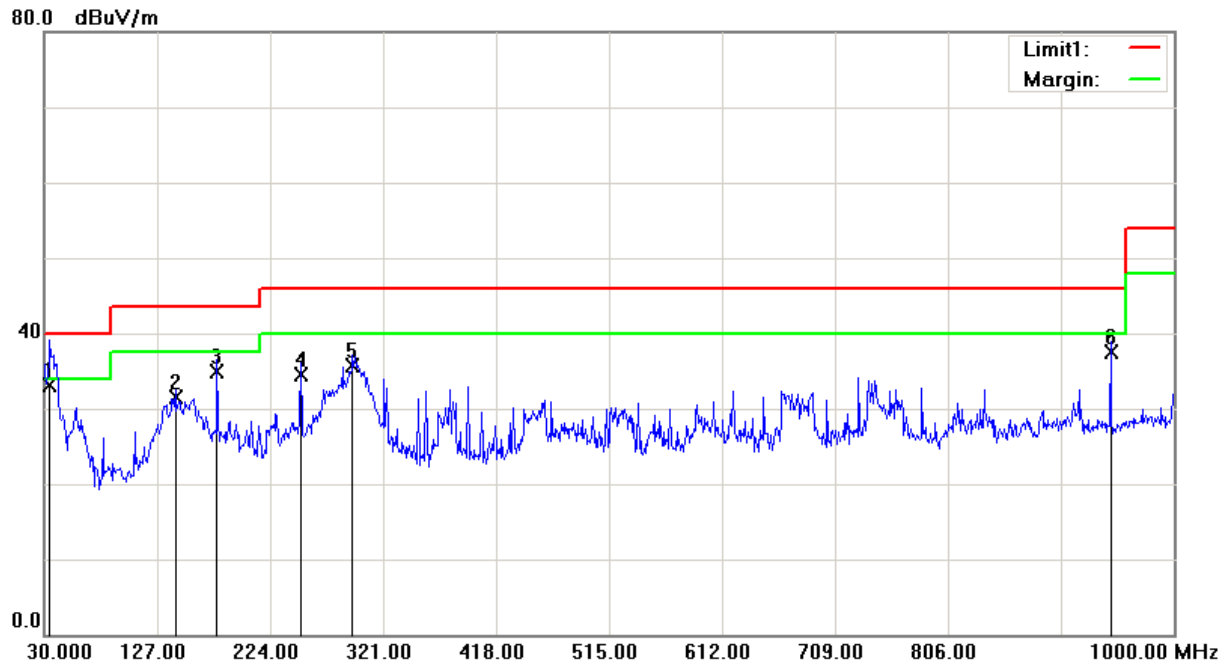
Test mode: HDMI Playing

Horizontal:

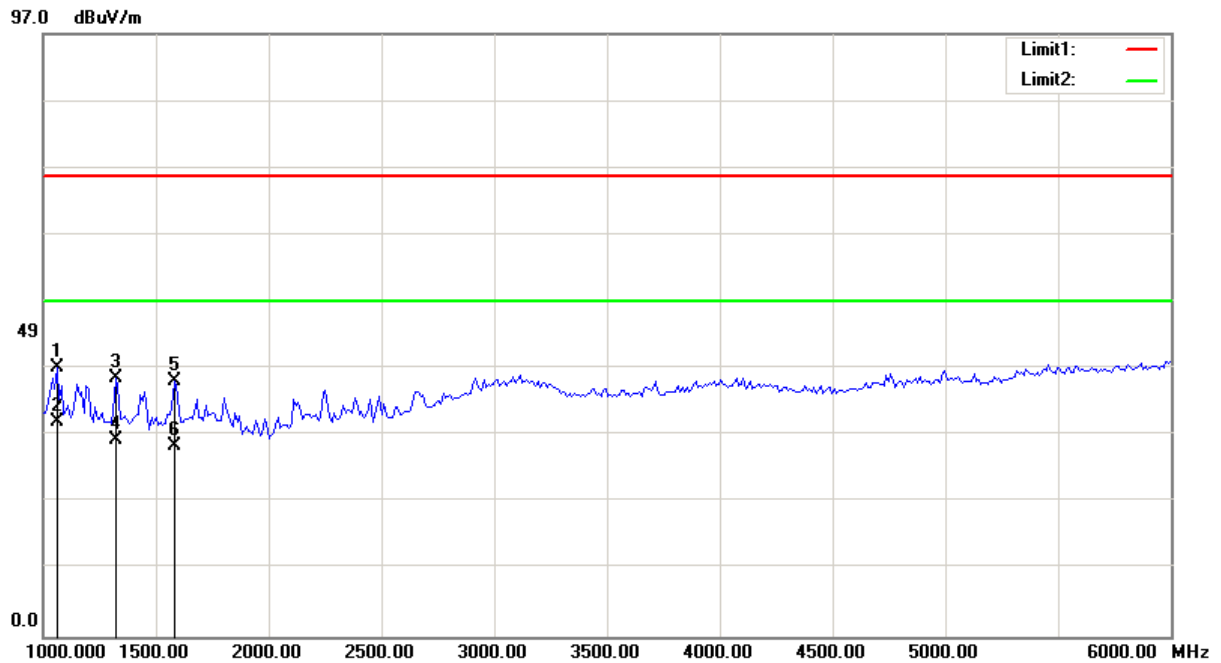


Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
33.8800	28.67	QP	-1.37	27.30	40.00	12.70
142.5200	40.47	QP	-6.97	33.50	43.50	10.00
178.4100	48.36	QP	-8.56	39.80	43.50	3.70*
286.0800	41.49	QP	-5.89	35.60	46.00	10.40
296.7500	41.90	QP	-5.60	36.30	46.00	9.70
321.9700	40.77	QP	-5.07	35.70	46.00	10.30

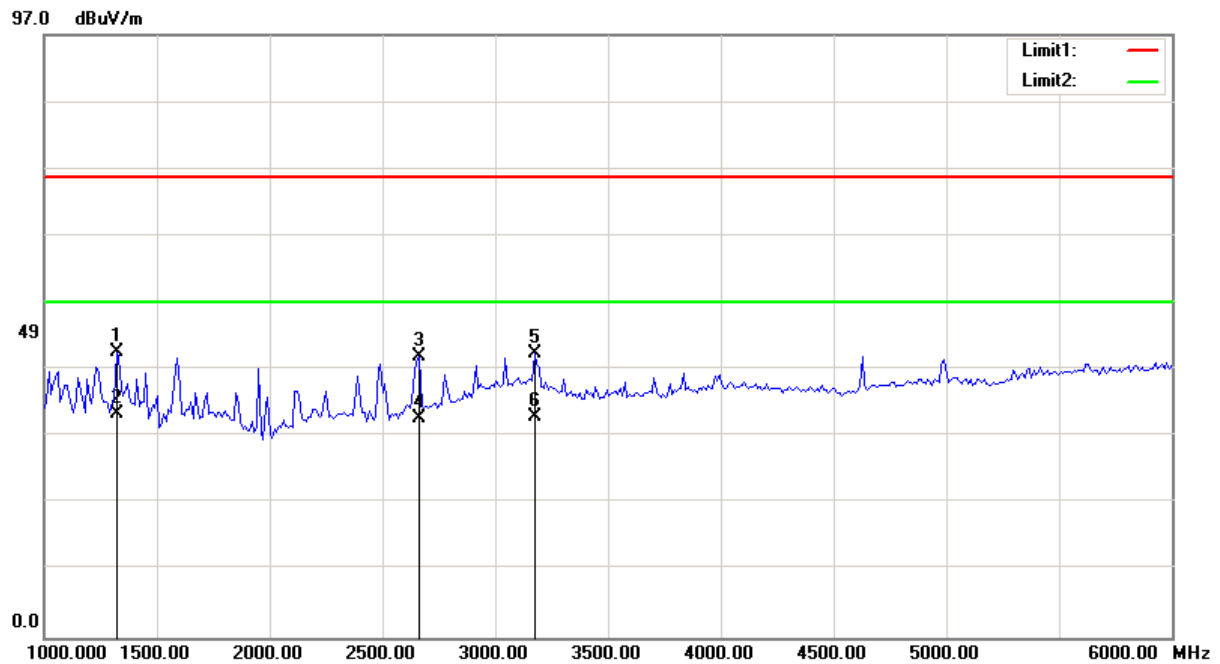
*Within measurement uncertainty!

Vertical:

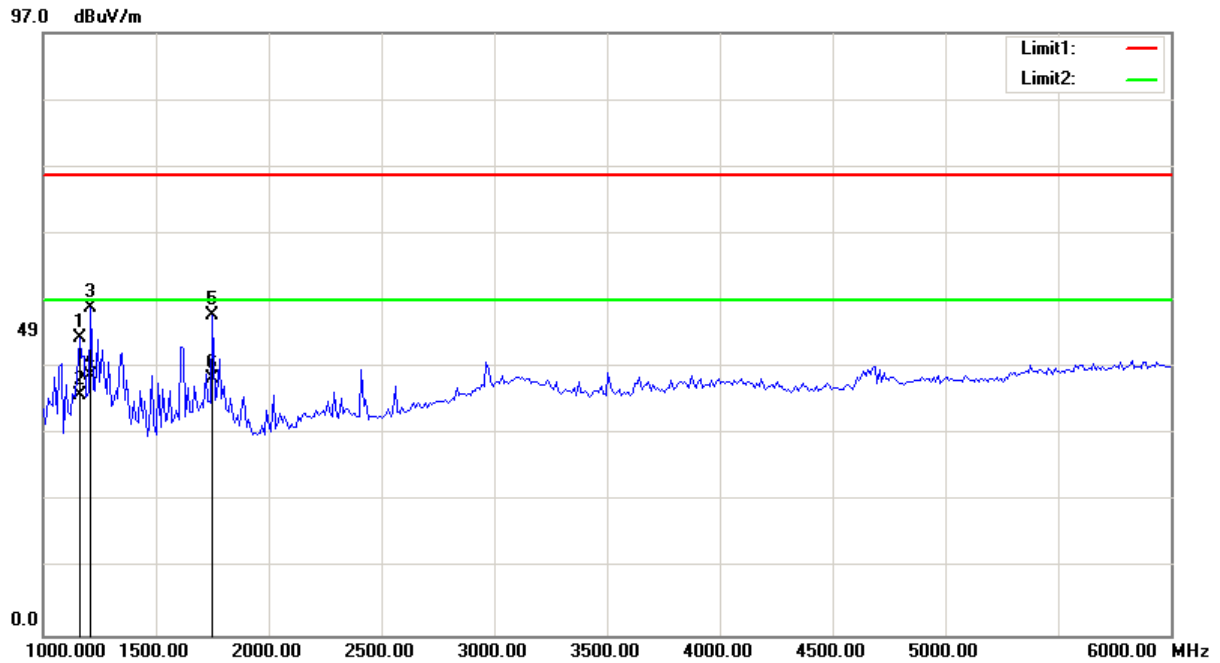
Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
34.8500	35.29	QP	-2.19	33.10	40.00	6.90
142.5200	38.57	QP	-6.97	31.60	43.50	11.90
178.4100	43.46	QP	-8.56	34.90	43.50	8.60
250.1900	42.17	QP	-7.57	34.60	46.00	11.40
294.8100	41.42	QP	-5.62	35.80	46.00	10.20
945.6800	33.24	QP	4.36	37.60	46.00	8.40

2) Above 1'GHz:*Test mode: USB Downloading***Horizontal:**

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1060.120	45.49	peak	-2.09	43.40	74.00	30.60
1060.120	36.65	AVG	-2.09	34.56	54.00	19.44
1320.641	42.59	peak	-1.10	41.49	74.00	32.51
1320.641	32.77	AVG	-1.10	31.67	54.00	22.33
1581.162	40.92	peak	0.07	40.99	74.00	33.01
1581.162	30.71	AVG	0.07	30.78	54.00	23.22

Vertical:

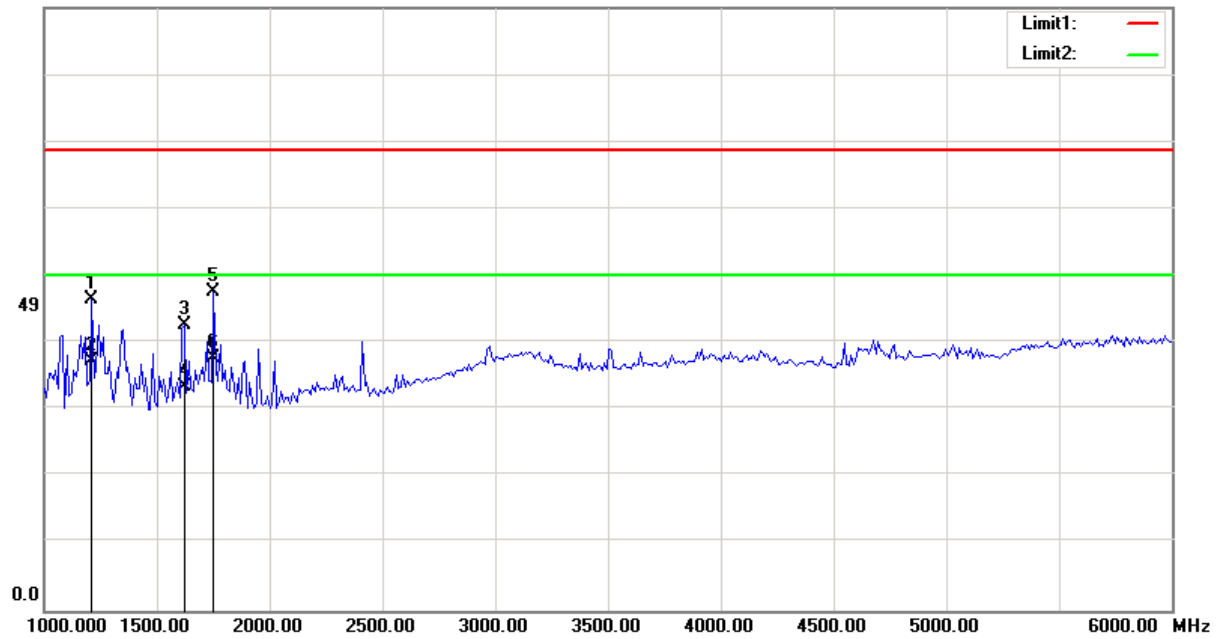
Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1320.641	47.12	peak	-1.10	46.02	74.00	27.98
1320.641	37.23	AVG	-1.10	36.13	54.00	17.87
2663.327	41.38	peak	3.77	45.15	74.00	28.85
2663.327	31.50	AVG	3.77	35.27	54.00	18.73
3174.349	38.24	peak	7.41	45.65	74.00	28.35
3174.349	28.18	AVG	7.41	35.59	54.00	18.41

*Test mode: HDMI Playing***Horizontal:**

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1160.321	49.60	peak	-1.75	47.85	74.00	26.15
1160.321	40.34	AVG	-1.75	38.59	54.00	15.41
1210.421	54.46	peak	-1.60	52.86	74.00	21.14
1210.421	43.48	AVG	-1.60	41.88	54.00	12.12
1751.503	50.67	peak	0.79	51.46	74.00	22.54
1751.503	40.53	AVG	0.79	41.32	54.00	12.68

Vertical:

97.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1210.421	51.62	peak	-1.60	50.02	74.00	23.98
1210.421	41.75	AVG	-1.60	40.15	54.00	13.85
1621.243	45.67	peak	0.24	45.91	74.00	28.09
1621.243	35.73	AVG	0.24	35.97	54.00	18.03
1751.503	50.43	peak	0.79	51.22	74.00	22.78
1751.503	39.89	AVG	0.79	40.68	54.00	13.32

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