

FCC PART 15 CLASS B
EMI MEASUREMENT AND TEST REPORT
For

Shenzhen Rikomagic Tech Corp.,Ltd
2F, Liangshi Building, Qi'an Road 6#, Shajing street, Bao'an, Shenzhen, China, 518125

FCC ID: PV2MK802IIIS

December 25, 2012

This Report Concerns: Original Report	Equipment Type: Android 4.1 mini pc
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Test Engineer of performing the tests:	Hans Hu <i>Hans.Hu</i>
Report No.:	BST 12121101Y-1ER-3
Receive EUT Date/Test Date:	December 11, 2012 / December 11-25, 2012
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1. GENERAL INFORMATION

1.1. Report information

1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -

The test site used to collect the data is located on the address of

Global United Technology Service Co., Ltd

(FCC Registered Test Site Number: 600491) on

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,
Shenzhen, China 518102

The Test Site is constructed and calibrated to meet the FCC requirements.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Applicant : Shenzhen Rikomagic Tech Corp.,Ltd
Address : 2F, Liangshi Building, Qi'an Road 6#, Shajing street, Bao'an, Shenzhen, China, 518125

Manufacturer : Shenzhen Rikomagic Tech Corp.,Ltd
Address : 2F, Liangshi Building, Qi'an Road 6#, Shajing street, Bao'an, Shenzhen, China, 518125

EUT Description : Android 4.1 mini pc

Trade Name : rikomagic

Model Number : MK802IIIS, MK802III

Power Supply : DC 5V (From the PC or Adapter of 120V/60Hz)

The MK802IIIS, MK802III products have the same circuit diagram, PCB layout, software, RF Module, Features and functionality. The differences are the model name, so, we select MK802IIIS to test.

2.2. Block Diagram of EUT Configuration

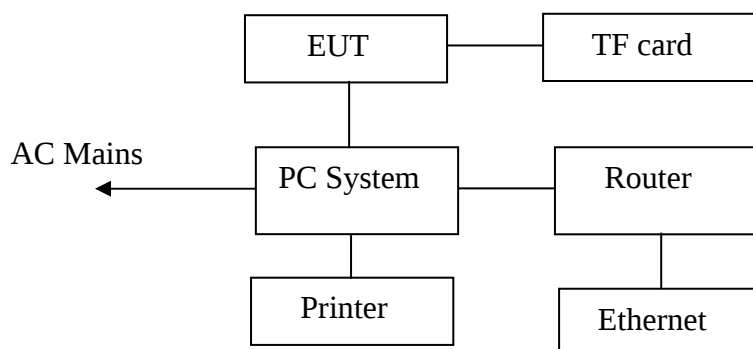


Figure 1 EUT Setup of USB with PC mode

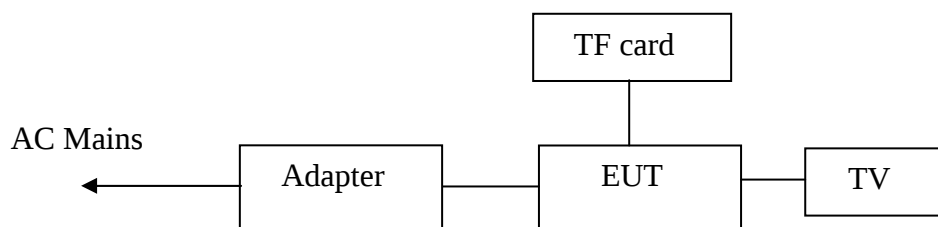


Figure 2 EUT Setup of HDMI with TV mode

2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used “Yes/No”
Adapter	CYSL05-05010 0	N/A	YULONG	Yes
PC system	OPTIPLEX745	N/A	DELL	Yes
Printer	CB495A	N/A	HP	Yes
Router	PL-R860	N/A	TP-LINK	Yes
TV	LXM-L17AB	N/A	Samsung	Yes
TF card	4G	N/A	Kingston	Yes

2.4. Test Conditions

Temperature: 20~25℃

Relative Humidity: 50~63 %

3. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass

Remark: “N/A” means “Not applicable.”

Modifications

No modification was made.

4. TEST EQUIPMENT USED

EQUIPMENT/FACILITIES	MANUFACTURER	MODEL	SERIAL NO.	DATE OF CAL.	CAL. INTERVAL
3m Semi-Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2012	1 Year
Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2012	1 Year
BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRO NIK	VULB9163	GTS214	Feb. 25 2012	1 Year
Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRO NIK	9120D-829	GTS208	June 30 2012	1 Year
Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2012	1 Year
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Cable	Resenberger	N/A	NO.1	Apr. 6, 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Apr. 6, 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Apr. 6, 2012	1 Year
Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2012	1 Year
Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2012	1 Year
Amplifier (18-26GHz)	R&S	AFS33-1800 2 650-30-8P-4 4	GTS218	June 30 2012	1 Year
Band filter	Amindeon	82346	GTS219	Mar. 31 2012	1 Year
Active Loop Antenna	Beijing Daze	ZN30900A	GTS215	Mar. 31 2012	1 Year
Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 08 2012	1 Year
EMI Test Receiver	R&S	ESCS30	GTS223	Jul. 04 2012	1 Year
10dB Pulse Limita	R&S	N/A	GTS224	Jul. 04 2012	1 Year
Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 04 2012	1 Year
LISN	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	GTS226	Jul. 04 2012	1 Year
Coaxial Cable	SCHWARZBECK	N/A	NO.4	Apr. 6, 2012	1 Year
EMI Test Software	AUDIX	E3	N/A	N/A	N/A

5. CONDUCTED EMISSION TEST

5.1. Measurement Uncertainty

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is + 2.88 dB.

5.2. Block Diagram of Test Setup

5.2.1. Block Diagram of connection between the EUT and the simulators

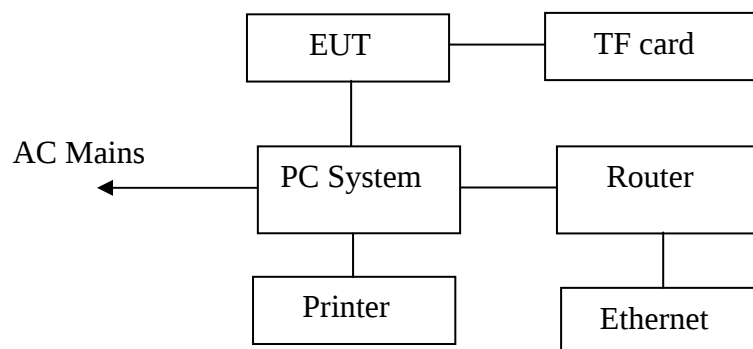


Figure 1 EUT Setup of USB with PC mode

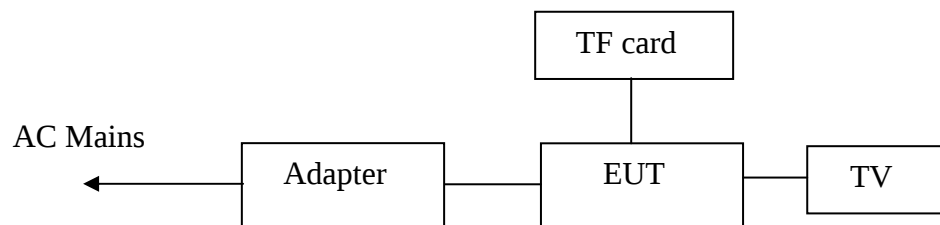
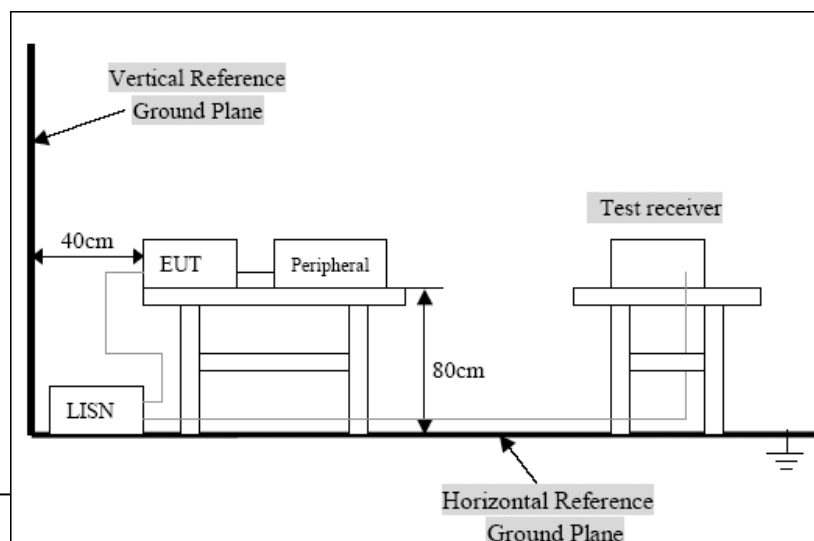


Figure 2 EUT Setup of HDMI with TV mode

5.2.2. Test Setup Diagram



5.3. Test Standard

FCC Part 15 CLASS B

ANSI C63.4 2003

5.4. Conducted Emission Limit(Class B)

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

5.5. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC Part 15 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

5.6. Operating Condition of EUT

5.6.1. Setup the EUT and simulators as shown in Section 5.1.

5.6.2. Turn on the power of all equipments.

5.6.3. Let the EUT work in test modes (USB with PC mode & HDMI with TV mode) and test it.

5.7. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver is used to test the emissions from both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.8. Test Result

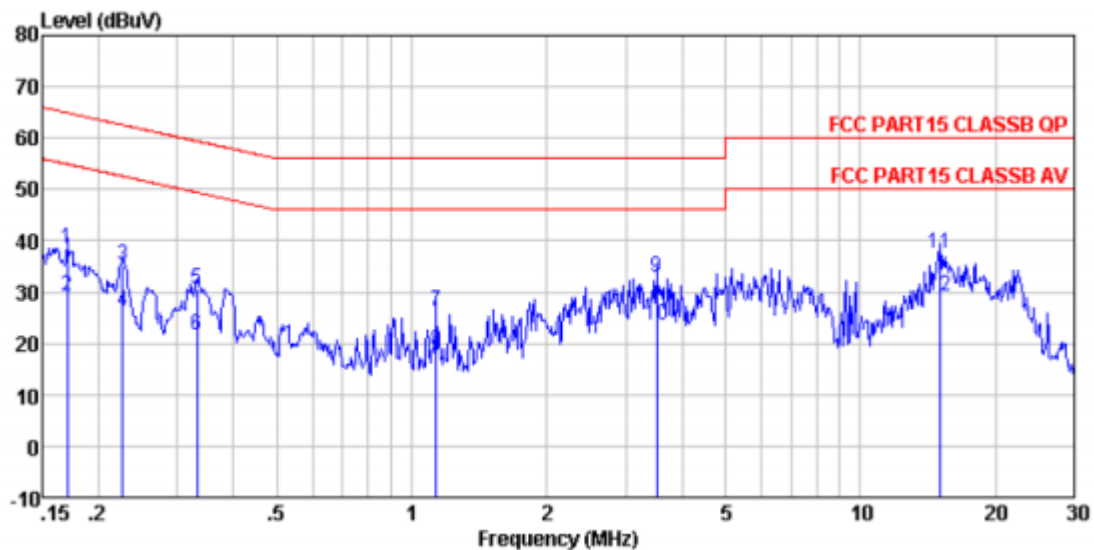
Pass

Test mode: USB with PC mode L Line

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.170	37.54	0.67	38.21	64.94	-26.73	QP
0.170	28.42	0.67	29.09	54.94	-25.85	AVG
0.227	34.49	0.64	35.13	62.57	-27.44	QP
0.227	25.45	0.64	26.09	52.57	-26.48	AVG
0.332	29.83	0.60	30.43	59.40	-28.97	QP
0.332	20.96	0.60	21.56	49.40	-27.84	AVG
1.135	25.71	0.46	26.17	56.00	-29.83	QP
1.135	18.11	0.46	18.57	46.00	-27.43	AVG
3.509	32.46	0.34	32.80	56.00	-23.2	QP
3.509	23.13	0.34	23.47	46.00	-22.53	AVG
14.986	37.05	0.18	37.23	60.00	-22.77	QP
14.986	28.80	0.18	28.98	50.00	-21.02	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

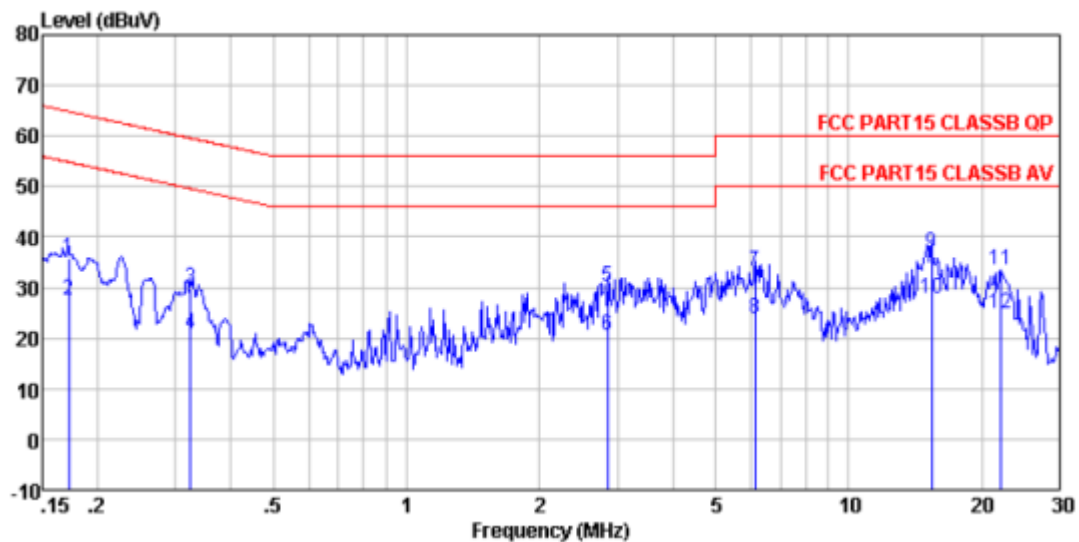


Test mode: USB with PC mode N Line

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.172	35.20	0.67	35.87	64.86	-28.99	QP
0.172	26.82	0.67	27.49	54.86	-27.37	AVG
0.325	29.01	0.64	29.65	59.57	-29.92	QP
0.325	20.16	0.64	20.8	49.57	-28.77	AVG
2.854	29.57	0.60	30.17	56.00	-25.83	QP
2.854	20.16	0.60	20.76	46.00	-25.24	AVG
6.153	32.66	0.46	33.12	60.00	-26.88	QP
6.153	23.54	0.46	24	50.00	-26	AVG
15.388	36.44	0.34	36.78	60.00	-23.22	QP
15.388	27.53	0.34	27.87	50.00	-22.13	AVG
22.180	33.27	0.18	33.45	60.00	-26.55	QP
22.180	24.54	0.18	24.72	50.00	-25.28	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

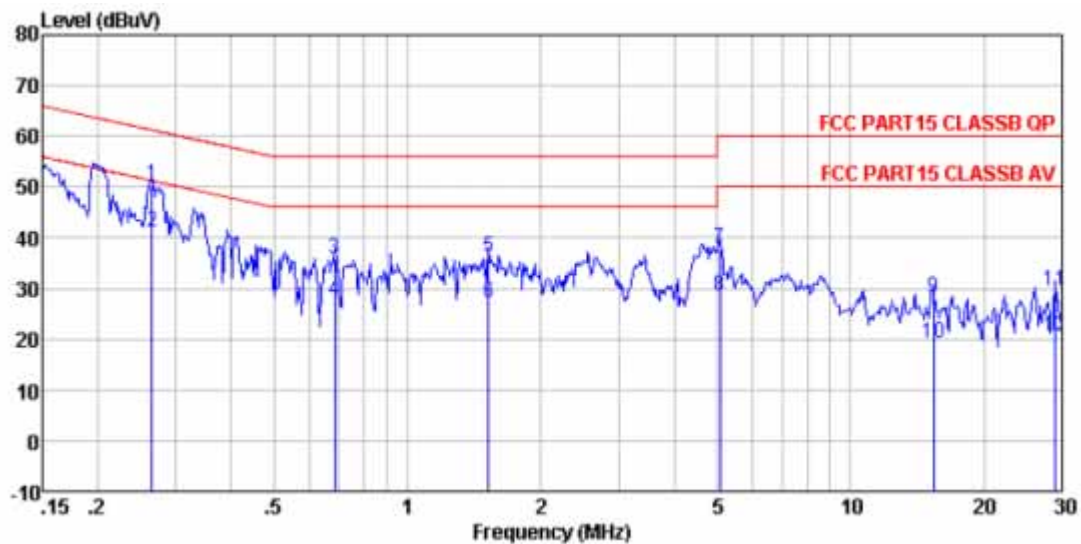


Test mode: HDMI with TV mode L Line

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.266	49.80	0.67	50.47	61.25	-10.78	QP
0.266	40.34	0.67	41.01	51.25	-10.24	AVG
0.686	35.10	0.64	35.74	56.00	-20.26	QP
0.686	26.76	0.64	27.4	46.00	-18.6	AVG
1.527	35.61	0.60	36.21	56.00	-19.79	QP
1.527	26.69	0.60	27.29	46.00	-18.71	AVG
5.085	37.29	0.46	37.75	60.00	-22.25	QP
5.085	28.21	0.46	28.67	50.00	-21.33	AVG
15.388	27.93	0.34	28.27	60.00	-31.73	QP
15.388	18.77	0.34	19.11	50.00	-30.89	AVG
29.061	29.02	0.18	29.2	60.00	-30.8	QP
29.061	20.05	0.18	20.23	50.00	-29.77	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

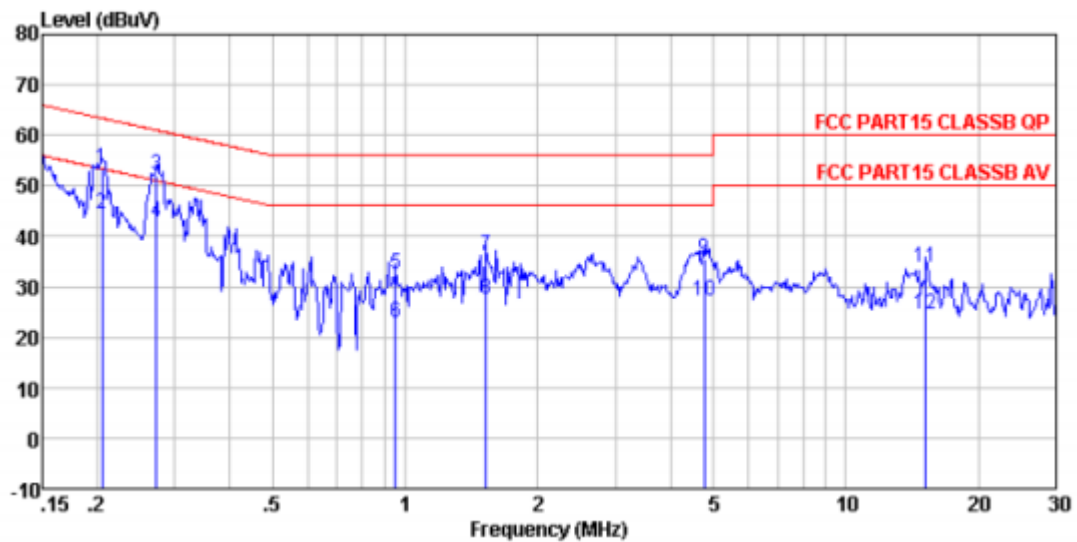


Test mode: HDMI with TV mode N Line

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.205	52.81	0.67	53.48	63.40	-9.92	QP
0.205	43.66	0.67	44.33	53.40	-9.07	AVG
0.273	51.45	0.64	52.09	61.03	-8.94	QP
0.273	42.15	0.64	42.79	51.03	-8.24	AVG
0.953	31.77	0.60	32.37	56.00	-23.63	QP
0.953	22.21	0.60	22.81	46.00	-23.19	AVG
1.527	35.55	0.46	36.01	56.00	-19.99	QP
1.527	26.96	0.46	27.42	46.00	-18.58	AVG
4.772	35.11	0.34	35.45	56.00	-20.55	QP
4.772	26.71	0.34	27.05	46.00	-18.95	AVG
15.226	33.32	0.18	33.5	60.00	-26.5	QP
15.226	24.05	0.18	24.23	50.00	-25.77	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



6. RADIATED EMISSION MEASUREMENT

6.1. Measurement Uncertainty

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is + 5.10 dB.

6.2. Block Diagram of EUT Configuration

6.2.1. Block Diagram of connection between the EUT and the simulators

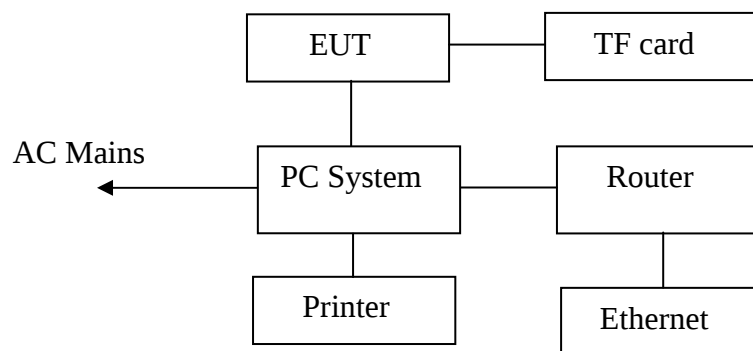


Figure 1 EUT Setup of USB with PC mode

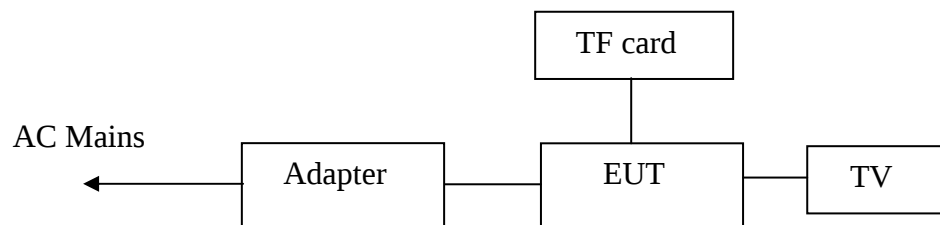
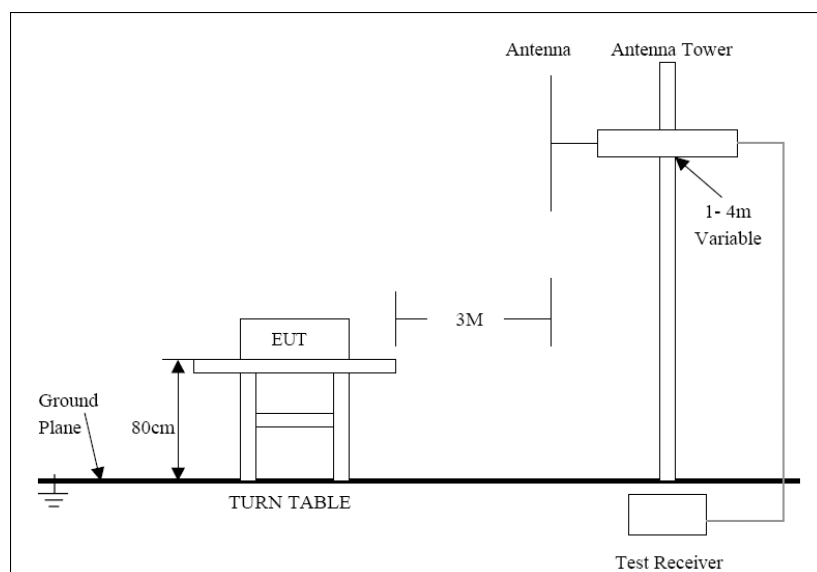


Figure 2 EUT Setup of HDMI with TV mode

6.2.2. Semi-anechoic Chamber Test Setup Diagram



6.3. Test Standard

FCC Part 15 CLASS B
ANSI C63.4 2003

6.4. Radiated Emission Limit(Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
Above 1000	3	54.0

Note:(1) The smaller limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or system.

6.5. EUT Configuration on Test

The following equipment are installed on Radiated Emission Measurement to meet the Commission requirements and operating regulations in a manner which tends to maximize Its emission characteristics in normal application.

6.6. Operating Condition of EUT

6.6.1.Setup the EUT as shown on Section 6.1

6.6.2.Turn on the power of all equipments.

6.6.3.Let the EUT work in test modes (USB with PC mode & HDMI with TV mode) and test it.

6.7. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for frequencies above 1000MHz. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit. Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The bandwidth of test receiver is set at 9kHz in below 30MHz and set at 120kHz in 30-1000MHz, and set at 1MHz in 1-18GHz.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The frequency range from 9kHz to 1000MHz is checked. All the test results are listed in Section 6.7. The measurements greater than 20dB below the limit are not report.

Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit. And Z direction is worst mode

6.8. Test Result

PASS

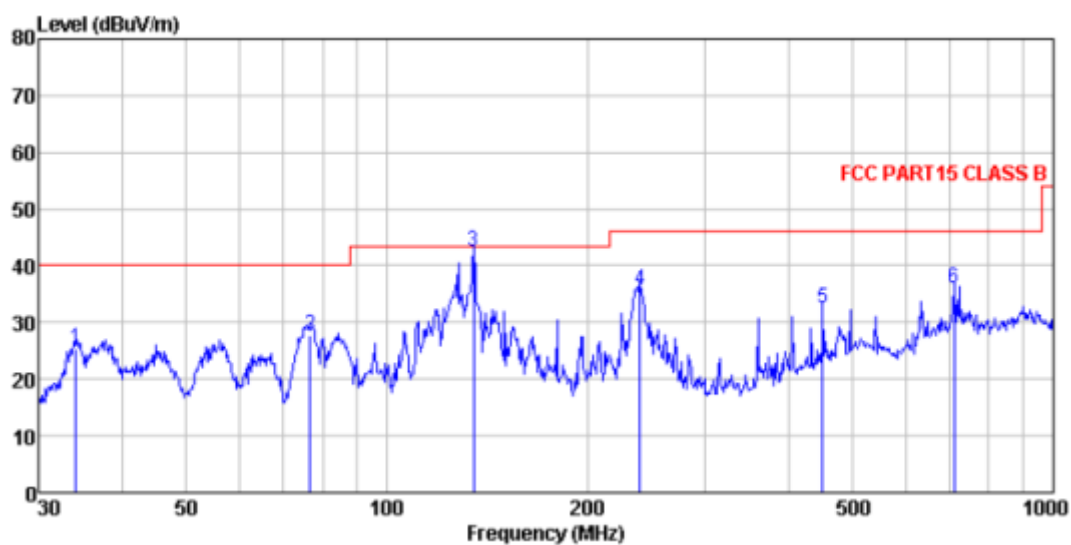
For 30MHz-1GHz

USB with PC mode Horizontal polarization

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
34.15	47.62	22.17	25.45	40.00	-14.55	QP
76.78	52.01	24.21	27.80	40.00	-12.2	QP
135.00	66.37	23.82	42.55	43.50	-0.95	QP
239.98	57.18	21.61	35.57	46.00	-10.43	QP
451.13	47.00	14.68	32.32	46.00	-13.68	QP
709.18	44.42	8.41	36.01	46.00	-9.99	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

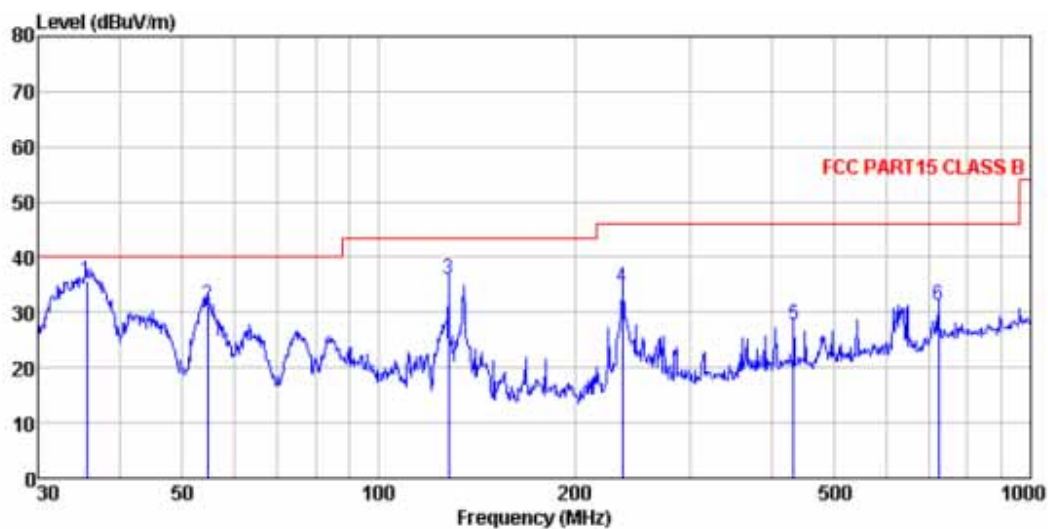


USB with PC mode Vertical polarization

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
35.62	54.64	22.17	32.47	40.00	-7.53	QP
54.64	49.37	24.21	25.16	40.00	-14.84	QP
128.11	61.23	23.82	37.41	43.50	-6.09	QP
236.64	56.60	21.61	34.99	46.00	-11.01	QP
432.54	45.46	14.68	30.78	46.00	-15.22	QP
721.72	43.66	8.41	35.25	46.00	-10.75	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



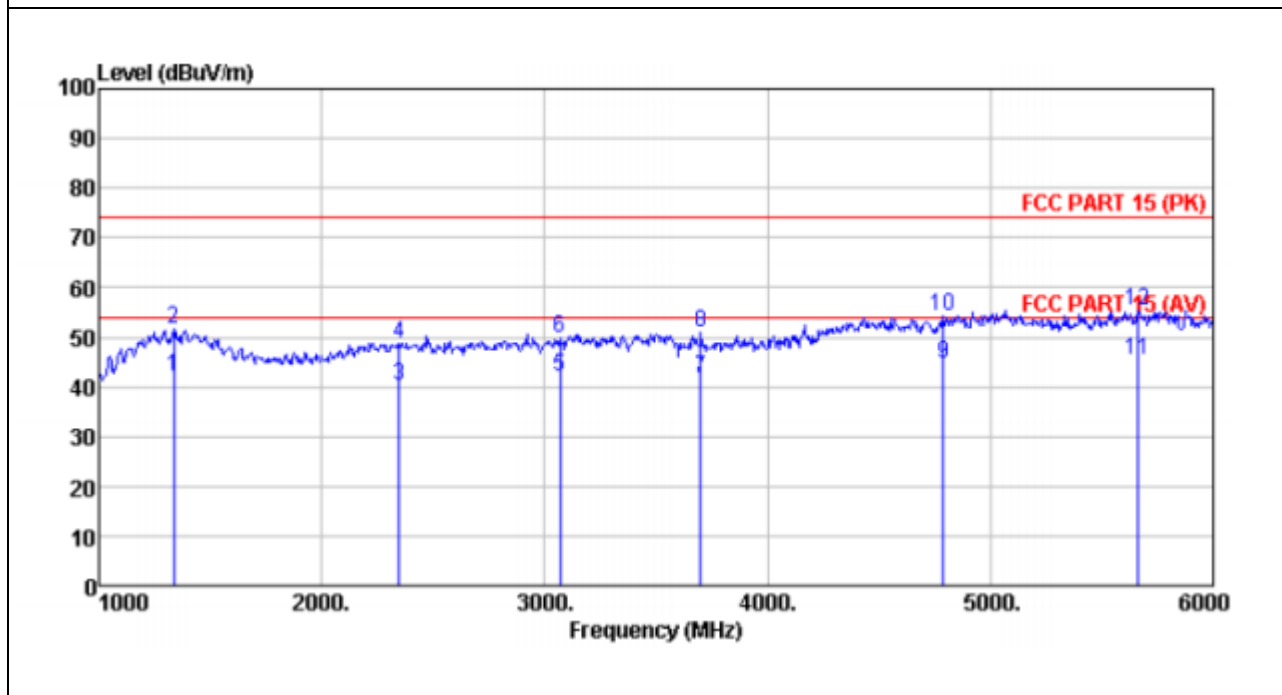
For above 1GHz

USB with PC mode Horizontal polarization

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1335.00	34.64	7.58	42.22	54.00	-11.78	AVG
1335.00	44.09	7.58	51.67	74.00	-22.33	QP
2345.00	39.27	0.77	40.04	54.00	-13.96	AVG
2345.00	48.04	0.77	48.81	74.00	-25.19	QP
3070.00	38.95	2.94	41.89	54.00	-12.11	AVG
3070.00	47.00	2.94	49.94	74.00	-24.06	QP
3700.00	35.64	5.97	41.61	54.00	-12.39	AVG
3700.00	44.76	5.97	50.73	74.00	-23.27	QP
4790.00	31.61	12.95	44.56	54.00	-9.44	AVG
4790.00	41.34	12.95	54.29	74.00	-19.71	QP
5660.00	30.86	14.43	45.29	54.00	-8.71	AVG
5660.00	40.96	14.43	55.39	74.00	-18.61	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

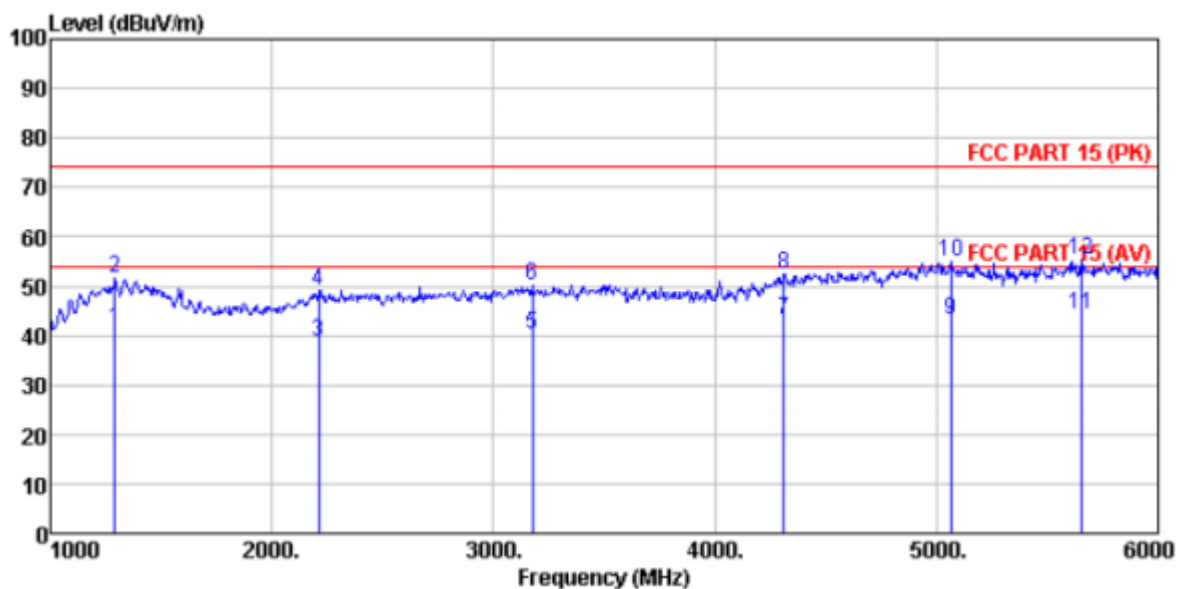


USB with PC mode Vertical polarization

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1290.00	33.17	8.23	41.40	54.00	-12.6	AVG
1290.00	43.33	8.23	51.56	74.00	-22.44	QP
2210.00	38.58	0.35	38.93	54.00	-15.07	AVG
2210.00	48.69	0.35	49.04	74.00	-24.96	QP
3175.00	36.83	3.56	40.39	54.00	-13.61	AVG
3175.00	46.61	3.56	50.17	74.00	-23.83	QP
4310.00	32.84	10.18	43.02	54.00	-10.98	AVG
4310.00	42.40	10.18	52.58	74.00	-21.42	QP
5065.00	29.51	13.72	43.23	54.00	-10.77	AVG
5065.00	41.30	13.72	55.02	74.00	-18.98	QP
5650.00	29.69	14.43	44.12	54.00	-9.88	AVG
5650.00	40.79	14.43	55.22	74.00	-18.78	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



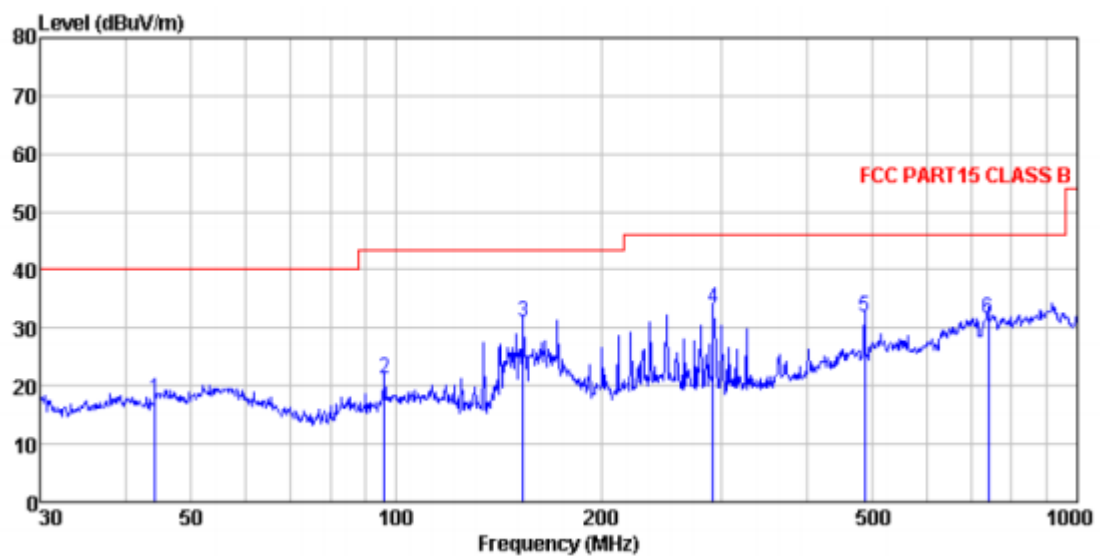
For 30MHz-1GHz

HDMI with TV mode Horizontal polarization

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
44.28	39.81	22.17	17.64	40.00	-22.36	QP
96.10	45.43	24.21	21.22	43.50	-22.28	QP
153.74	54.96	23.82	31.14	43.50	-12.36	QP
292.06	54.98	21.61	33.37	46.00	-12.63	QP
487.32	46.52	14.68	31.84	46.00	-14.16	QP
739.66	40.12	8.41	31.71	46.00	-14.29	QP

Remark:

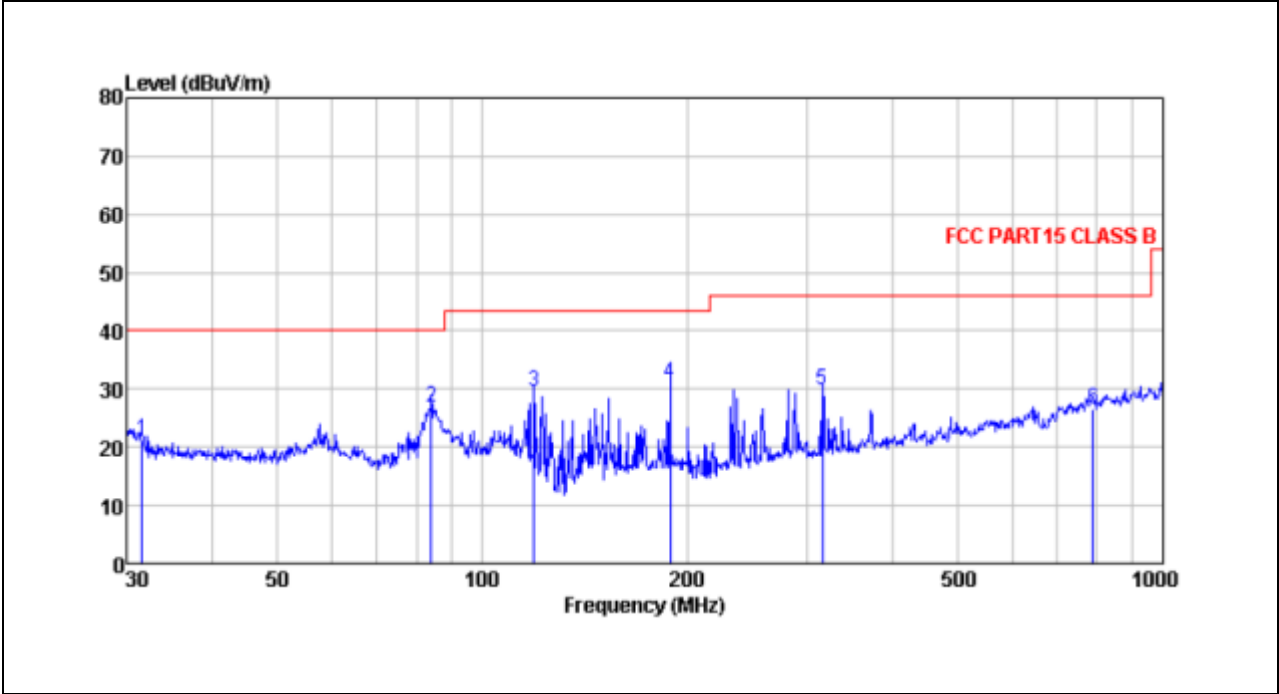
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HDMI with TV mode Vertical polarization

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
31.62	43.49	22.17	21.32	40.00	-18.68	QP
84.11	51.09	24.21	26.88	40.00	-13.12	QP
119.02	53.31	23.82	29.49	43.50	-14.01	QP
188.41	52.48	21.61	30.87	43.50	-12.63	QP
315.48	44.42	14.68	29.74	46.00	-16.26	QP
790.62	35.03	8.41	26.62	46.00	-19.38	QP

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

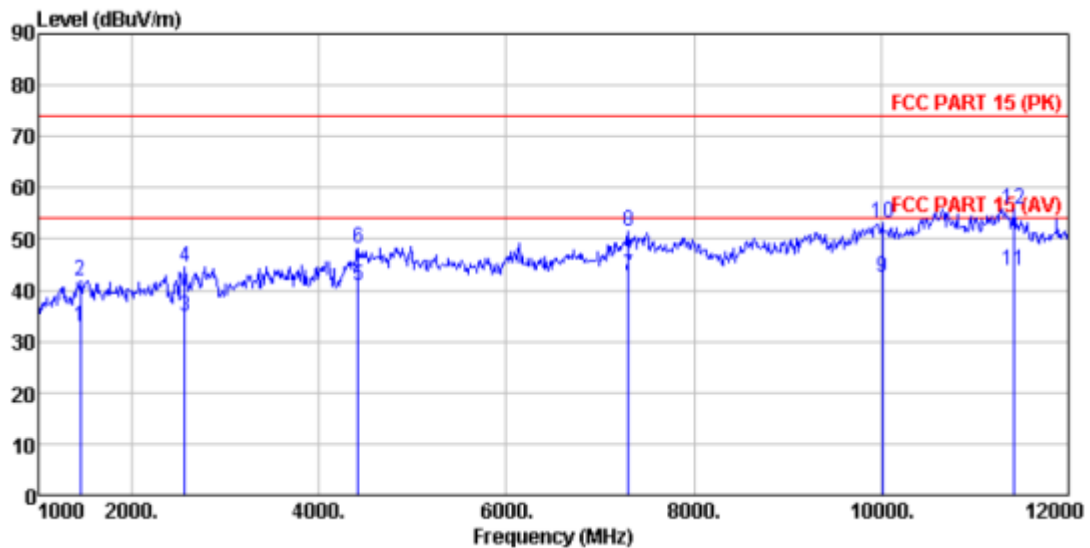


For above 1GHz**HDMI with TV mode Horizontal polarization**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1448.00	40.55	7.58	32.97	54.00	-21.03	AVG
1448.00	49.5	7.58	41.92	74.00	-32.08	QP
2568.00	35.64	0.77	34.87	54.00	-19.13	AVG
2568.00	45.42	0.77	44.65	74.00	-29.35	QP
4416.00	43.67	2.94	40.73	54.00	-13.27	AVG
4416.00	51.12	2.94	48.18	74.00	-25.82	QP
7300.00	48.96	5.97	42.99	54.00	-11.01	AVG
7300.00	57.51	5.97	51.54	74.00	-22.46	QP
10016.00	55.52	12.95	42.57	54.00	-11.43	AVG
10016.00	66.18	12.95	53.23	74.00	-20.77	QP
11416.00	58.22	14.43	43.79	54.00	-10.21	AVG
11416.00	70.15	14.43	55.72	74.00	-18.28	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HDMI with TV mode Vertical polarization

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1336.00	42.61	8.23	34.38	54.00	-19.62	AVG
1336.00	51.53	8.23	43.30	74.00	-30.7	QP
2680.00	36.22	0.35	35.87	54.00	-18.13	AVG
2680.00	44.94	0.35	44.59	74.00	-29.41	QP
5312.00	41.73	3.56	38.17	54.00	-15.83	AVG
5312.00	50.73	3.56	47.17	74.00	-26.83	QP
7356.00	51.04	10.18	40.86	54.00	-13.14	AVG
7356.00	60.86	10.18	50.68	74.00	-23.32	QP
8770.00	55.02	13.72	41.30	54.00	-12.7	AVG
8770.00	64.22	13.72	50.50	74.00	-23.5	QP
11234.00	57.39	14.43	42.96	54.00	-11.04	AVG
11234.00	68.93	14.43	54.50	74.00	-19.5	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

