

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 37LT777H-UA
Order No. : DEMC1303-00889
Date of receipt : 2013-03-05
Test duration : 2013-03-11 ~ 2013-03-13
Use of report : FCC CoC Marking
Date of Issue : 2013-03-19

Applicant : LG Electronics Inc.

19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

Test laboratory : Digital EMC Co., Ltd.

683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

Test specification : ANSI C 63.4:2003
FCC Part 15 Subpart B
(Type of Device : Class B Personal Computers
and Peripherals (JBP))

Test environment : Temperature : 20 °C,
Humidity : (38 ~ 39) % R.H.

Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and
the use of this test report is inhibited other than its purpose.

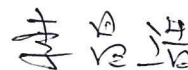
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Tested by:



Engineer
HyungJun Kim

Reviewed by:



General Manager
ChangHo Lee

PRESIDENT OF DIGITAL EMC CO., LTD.

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1. General Remarks

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

<http://www.digitalemcc.com>

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

Digital EMC Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	101842 678747	Test Facility list & NSA Data
	Canada	IC	5740A-1 5740A-2	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385 T-1442, G-338	Test Facility list & NSA Data
Certification	Korea	KC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK1221C	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".

3. General Information of EUT

Model No.	37LT777H-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ37LT777HUA
Type of Sample Tested	Pre-Production
High Frequency	800 MHz
Rating	AC 100-240 V~ 50/60 Hz, 0.9 A
Supplied Power for Test	AC 120 V, 60 Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

RGB (PC), HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640 x 350	31.46	70.09
720 x 400	31.46	70.08
640 x 480	31.46	59.94
800 x 600	37.87	60.31
1024 x 768	48.36	60.00
1360 x 768	47.71	60.01
1280 x 1024 HDMI-PC	63.98	60.02
1920 x 1080 RGB-PC	67.50	60.00
1920 x 1080 HDMI-PC	67.50	60.00

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2003	C
Radiated Disturbance	ANSI C63.4:2003	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

The data in this test report are traceable to the national or international standards.

4.2 Test environment and conditions

Test Items	Test date (MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	03-12	20	38
Radiated Disturbance	03-11 03-13	20 20	39 39

4.3 Test result Summary

(1) Conducted Emission (DSUB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.17598	N	51.7	Quasi-Peak	64.7	13.0

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
891.188	V	43.0	Quasi-Peak	46.0	3.0

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

Emission : The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

5.2 Test Operation Mode

- DSUB MODE : 'H' Pattern mode, 1920 x 1080 Resolution (Worst case)
- HDMI MODE : "H" Pattern mode, 1920 x 1080 Resolution (Worst case)
- "H" characters scrolling is displayed on the EUT's screen.
- USB MODE : Play video file in USB memory on the EUT's screen.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTR O460	7L7JXBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				USB	1.8	Not use	Shield		
				USB	1.8	Not use	Shield		
				USB	1.5	Not use	Shield		
				DSUB	1.6	Not use	Shield		
KEYBOARD	SKG-3000UB	TAKB60 1231H	MONITEREY INTERNATIONAL CORP.	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	1484	3527000 21374	MICROSOFT CORPORATION	USB	1.6	Not use	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER COMPONENT	1.8 1.6	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	Cruzer 4GB	N/A	SANDISK	USB	-	Not use	-	-	DOC
PRINTER	Aculaser M1200	LWTZ181070	EPSON	POWER USB	1.8 1.5	Not use Not use	Shield Non-shield	Plastic	DOC
HEADSET	COV903	NONE	COSY	HEAD PHONE	2.5	Not use	Non-shield	Plastic	DOC
REMOTE CONTROL	AKB732 75673	N/A	HANSUNG ELECTRONICS CO., LTD	-	-	-	-	-	-

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies.				
Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable Loss + Insertion Loss of LISN

3. Margin = Limit - Emission level

Test Result

< DSUB MODE >



Results of Conducted Emission

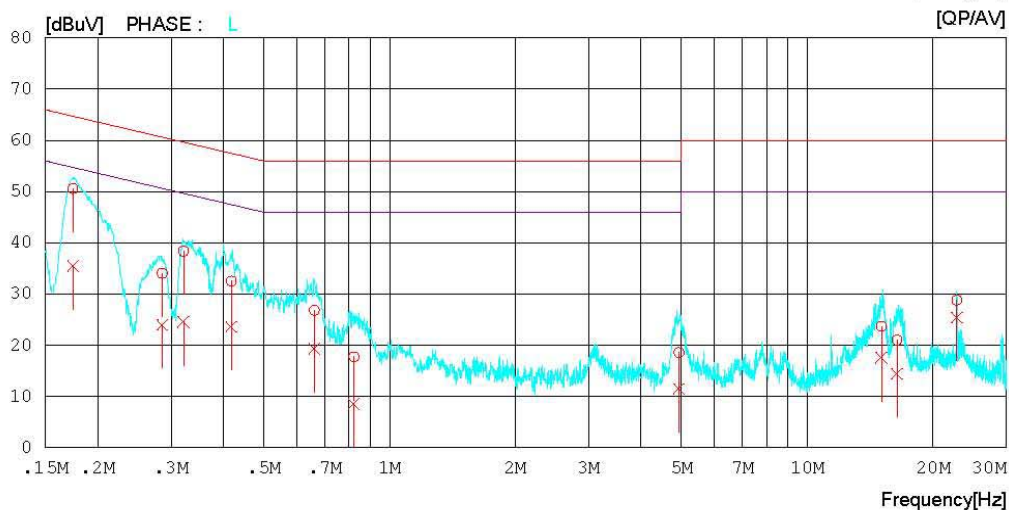
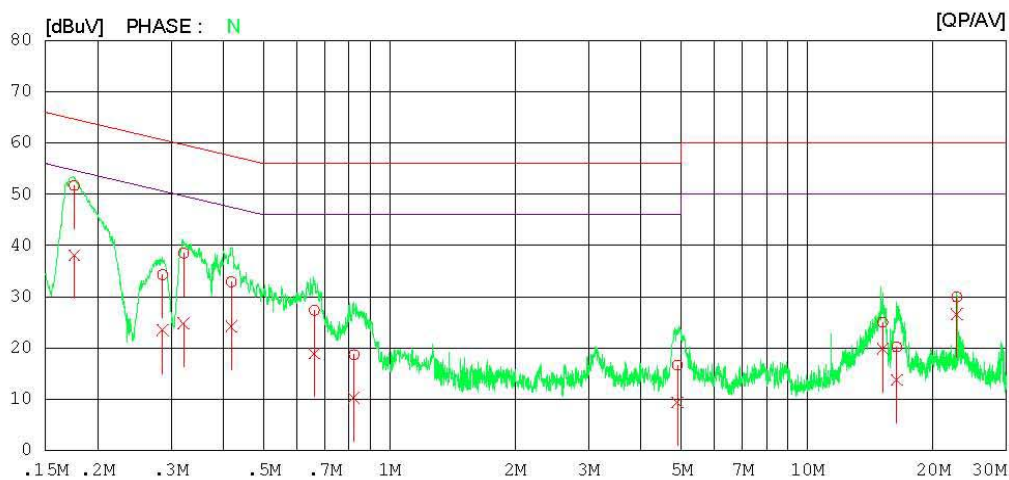
Digital EMC
Date : 2013-03-12

Model No. : 37LT777H-UA
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-03-12

Model No. : 37LT777H-UA
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17598	50.2	36.6	1.5	51.7	38.1	64.7	54.7	13.0	16.6	N
2	0.28644	33.4	22.6	0.9	34.3	23.5	60.6	50.6	26.3	27.1	N
3	0.32150	37.6	23.9	0.9	38.5	24.8	59.7	49.7	21.2	24.9	N
4	0.41813	32.1	23.4	0.8	32.9	24.2	57.5	47.5	24.6	23.3	N
5	0.66086	26.7	18.3	0.6	27.3	18.9	56.0	46.0	28.7	27.1	N
6	0.82278	18.2	9.8	0.5	18.7	10.3	56.0	46.0	37.3	35.7	N
7	4.89550	16.4	9.2	0.2	16.6	9.4	56.0	46.0	39.4	36.6	N
8	15.16850	24.6	19.4	0.4	25.0	19.8	60.0	50.0	35.0	30.2	N
9	16.38900	19.8	13.4	0.4	20.2	13.8	60.0	50.0	39.8	36.2	N
10	22.81400	29.4	26.1	0.5	29.9	26.6	60.0	50.0	30.1	23.4	N
11	0.17458	49.1	34.0	1.5	50.6	35.5	64.7	54.7	14.1	19.2	L
12	0.28574	33.2	23.1	0.9	34.1	24.0	60.6	50.6	26.5	26.6	L
13	0.32133	37.5	23.7	0.9	38.4	24.6	59.7	49.7	21.3	25.1	L
14	0.41818	31.7	22.8	0.8	32.5	23.6	57.5	47.5	25.0	23.9	L
15	0.66064	26.2	18.7	0.6	26.8	19.3	56.0	46.0	29.2	26.7	L
16	0.82168	17.3	8.1	0.5	17.8	8.6	56.0	46.0	38.2	37.4	L
17	4.93100	18.4	11.3	0.2	18.6	11.5	56.0	46.0	37.4	34.5	L
18	15.05950	23.3	17.2	0.4	23.7	17.6	60.0	50.0	36.3	32.4	L
19	16.41350	20.7	14.0	0.4	21.1	14.4	60.0	50.0	38.9	35.6	L
20	22.81200	28.3	24.9	0.5	28.8	25.4	60.0	50.0	31.2	24.6	L

< HDMI MODE >



Results of Conducted Emission

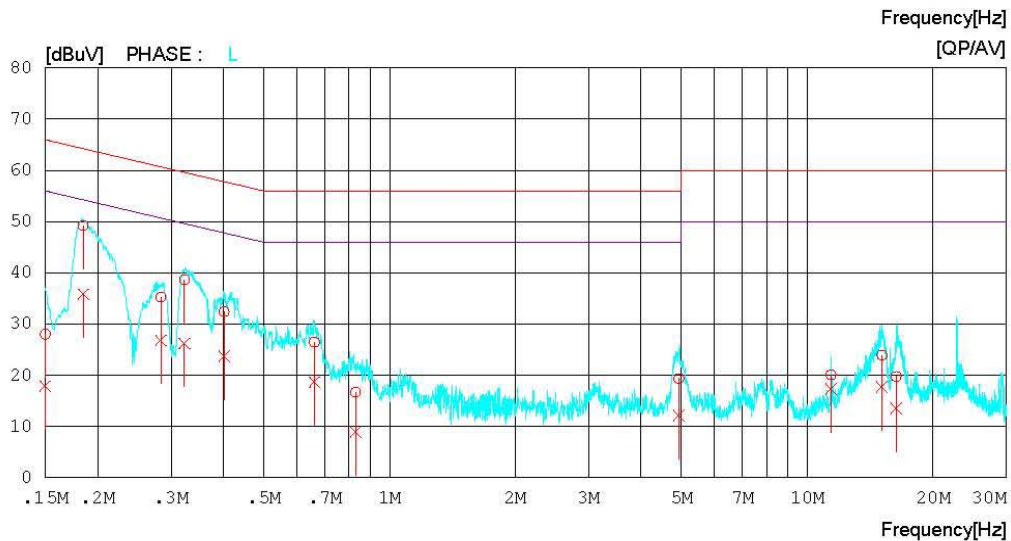
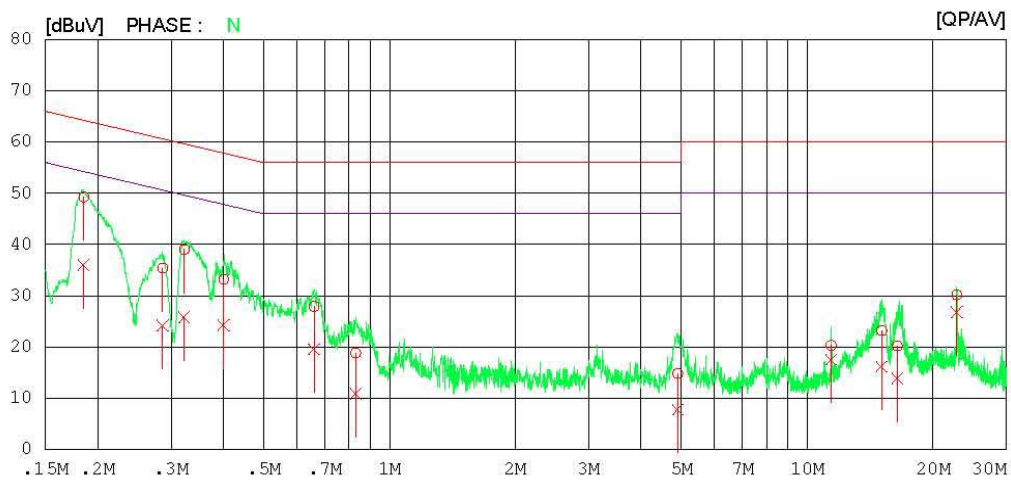
Digital EMC
Date : 2013-03-12

Model No. : 37LT777H-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-03-12

Model No. : 37LT777H-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18540	47.9	34.6	1.4	49.3	36.0	64.2	54.2	14.9	18.2	N
2	0.28645	34.4	23.3	0.9	35.3	24.2	60.6	50.6	25.3	26.4	N
3	0.32254	38.1	24.9	0.9	39.0	25.8	59.6	49.6	20.6	23.8	N
4	0.40056	32.4	23.4	0.8	33.2	24.2	57.8	47.8	24.6	23.6	N
5	0.66013	27.3	19.0	0.6	27.9	19.6	56.0	46.0	28.1	26.4	N
6	0.83039	18.3	10.3	0.5	18.8	10.8	56.0	46.0	37.2	35.2	N
7	4.89900	14.6	7.6	0.2	14.8	7.8	56.0	46.0	41.2	38.2	N
8	11.40750	19.9	17.1	0.4	20.3	17.5	60.0	50.0	39.7	32.5	N
9	15.08800	22.8	15.8	0.4	23.2	16.2	60.0	50.0	36.8	33.8	N
10	16.44750	19.8	13.4	0.4	20.2	13.8	60.0	50.0	39.8	36.2	N
11	22.81450	29.6	26.3	0.5	30.1	26.8	60.0	50.0	29.9	23.2	N
12	0.15000	26.2	16.1	1.8	28.0	17.9	66.0	56.0	38.0	38.1	L
13	0.18500	47.8	34.4	1.4	49.2	35.8	64.3	54.3	15.1	18.5	L
14	0.28389	34.3	25.9	0.9	35.2	26.8	60.7	50.7	25.5	23.9	L
15	0.32294	37.8	25.3	0.9	38.7	26.2	59.6	49.6	20.9	23.4	L
16	0.40213	31.6	22.9	0.8	32.4	23.7	57.8	47.8	25.4	24.1	L
17	0.66140	25.9	18.1	0.6	26.5	18.7	56.0	46.0	29.5	27.3	L
18	0.82994	16.2	8.4	0.5	16.7	8.9	56.0	46.0	39.3	37.1	L
19	4.92800	19.2	11.9	0.2	19.4	12.1	56.0	46.0	36.6	33.9	L
20	11.40850	19.7	16.9	0.4	20.1	17.3	60.0	50.0	39.9	32.7	L
21	15.10950	23.5	17.3	0.4	23.9	17.7	60.0	50.0	36.1	32.3	L
22	16.34350	19.4	13.2	0.4	19.8	13.6	60.0	50.0	40.2	36.4	L

< USB MODE >



Results of Conducted Emission

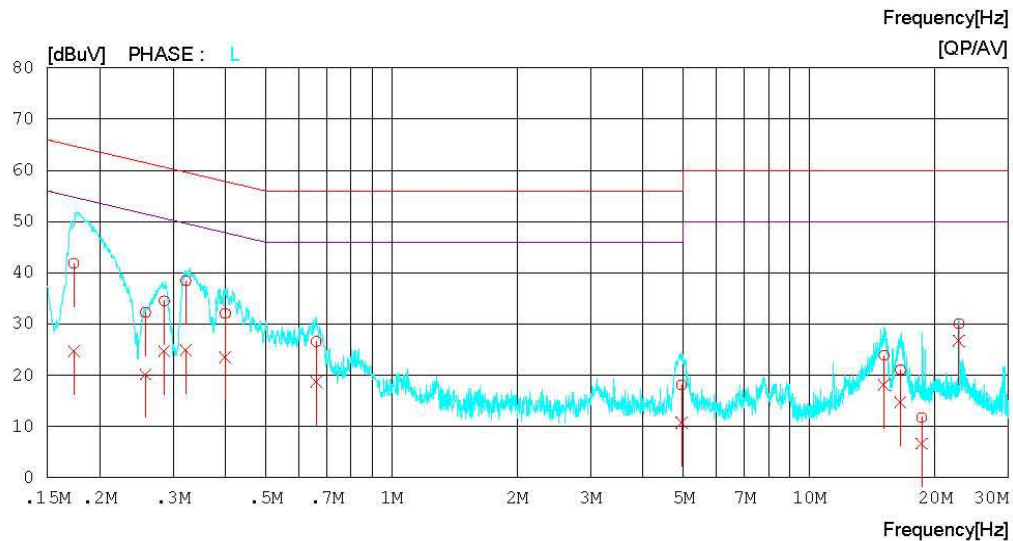
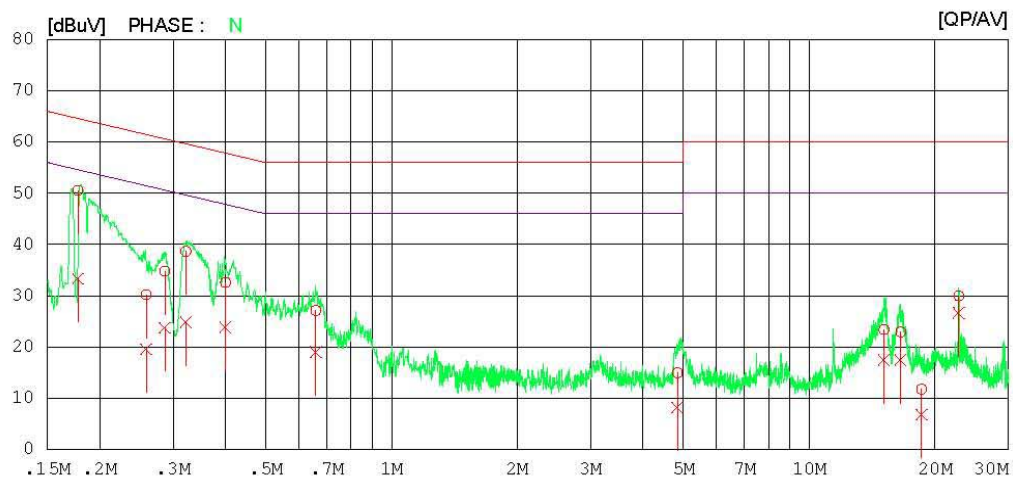
Digital EMC
Date : 2013-03-12

Model No. : 37LT777H-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-03-12

Model No. : 37LT777H-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17758	49.0	31.8	1.5	50.5	33.3	64.6	54.6	14.1	21.3	N
2	0.25875	29.1	18.5	1.0	30.1	19.5	61.5	51.5	31.4	32.0	N
3	0.28676	33.9	22.8	0.9	34.8	23.7	60.6	50.6	25.8	26.9	N
4	0.32211	37.8	24.0	0.9	38.7	24.9	59.7	49.7	21.0	24.8	N
5	0.40039	31.8	23.1	0.8	32.6	23.9	57.8	47.8	25.2	23.9	N
6	0.65905	26.5	18.4	0.6	27.1	19.0	56.0	46.0	28.9	27.0	N
7	4.83950	14.7	8.0	0.2	14.9	8.2	56.0	46.0	41.1	37.8	N
8	15.10950	23.0	17.0	0.4	23.4	17.4	60.0	50.0	36.6	32.6	N
9	16.55400	22.5	17.1	0.4	22.9	17.5	60.0	50.0	37.1	32.5	N
10	18.58550	11.3	6.3	0.5	11.8	6.8	60.0	50.0	48.2	43.2	N
11	22.81400	29.4	26.1	0.5	29.9	26.6	60.0	50.0	30.1	23.4	N
12	0.17356	40.3	23.2	1.5	41.8	24.7	64.8	54.8	23.0	30.1	L
13	0.25783	31.2	19.2	1.0	32.2	20.2	61.5	51.5	29.3	31.3	L
14	0.28595	33.6	23.8	0.9	34.5	24.7	60.6	50.6	26.1	25.9	L
15	0.32199	37.6	24.0	0.9	38.5	24.9	59.7	49.7	21.2	24.8	L
16	0.40009	31.3	22.7	0.8	32.1	23.5	57.9	47.9	25.8	24.4	L
17	0.66026	26.0	18.1	0.6	26.6	18.7	56.0	46.0	29.4	27.3	L
18	4.94850	17.9	10.5	0.2	18.1	10.7	56.0	46.0	37.9	35.3	L
19	15.11400	23.5	17.7	0.4	23.9	18.1	60.0	50.0	36.1	31.9	L
20	16.53900	20.7	14.4	0.4	21.1	14.8	60.0	50.0	38.9	35.2	L
21	18.59700	11.3	6.2	0.5	11.8	6.7	60.0	50.0	48.2	43.3	L
22	22.81400	29.6	26.2	0.5	30.1	26.7	60.0	50.0	29.9	23.3	L

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.

For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable loss - Amp gain + Antenna Factor

3. Margin = Limit - Emission level

Test Result

< DSUB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

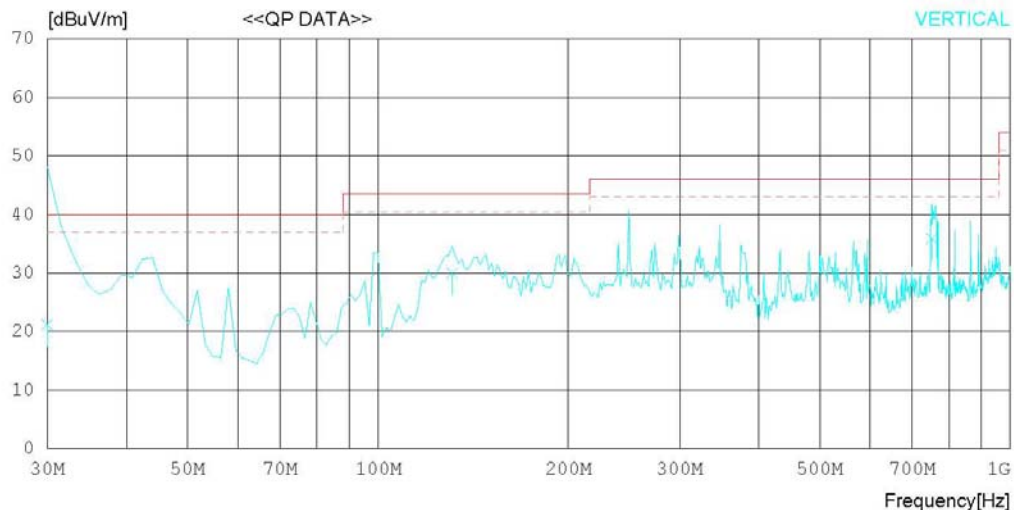
Date : 2013-03-11

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 37 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2013-03-11

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 37 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	43.990	35.1	13.7	1.1	24.2	25.7	40.0	14.3	196	358
2	249.183	50.2	12.7	2.6	23.8	41.7	46.0	4.3	100	228
3	340.897	36.6	14.7	3.2	23.6	30.9	46.0	15.1	100	301
4	891.188	33.5	20.7	5.2	23.1	36.3	46.0	9.7	210	206
----- Vertical -----										
5	30.000	26.3	17.9	0.8	23.8	21.2	40.0	18.8	240	1
6	131.042	41.2	11.5	1.5	24.2	30.0	43.5	13.5	100	358
7	752.837	35.6	19.3	4.6	23.6	35.9	46.0	10.1	100	172

< DSUB MODE _ (1 ~ 6) GHz _ Peak >

RADIATED EMISSION

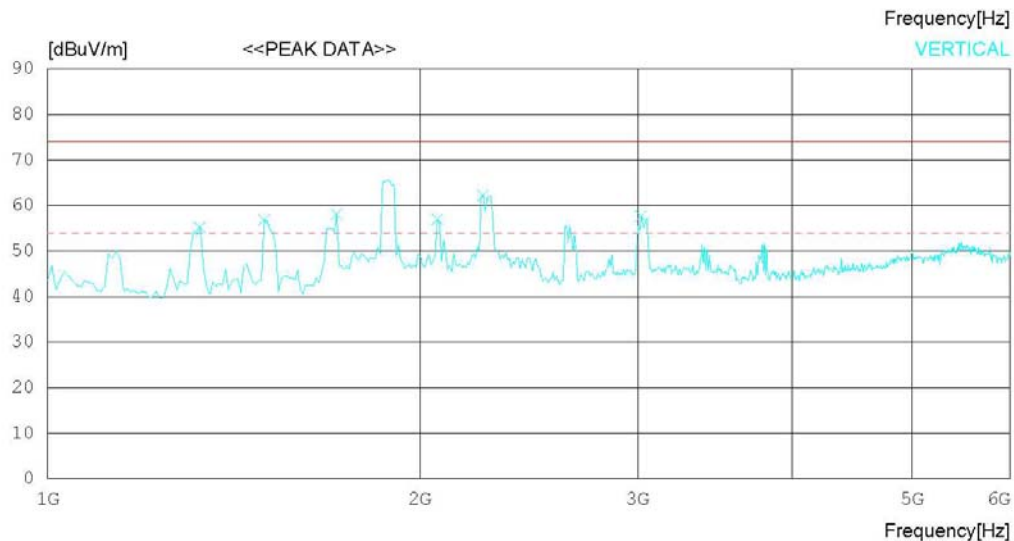
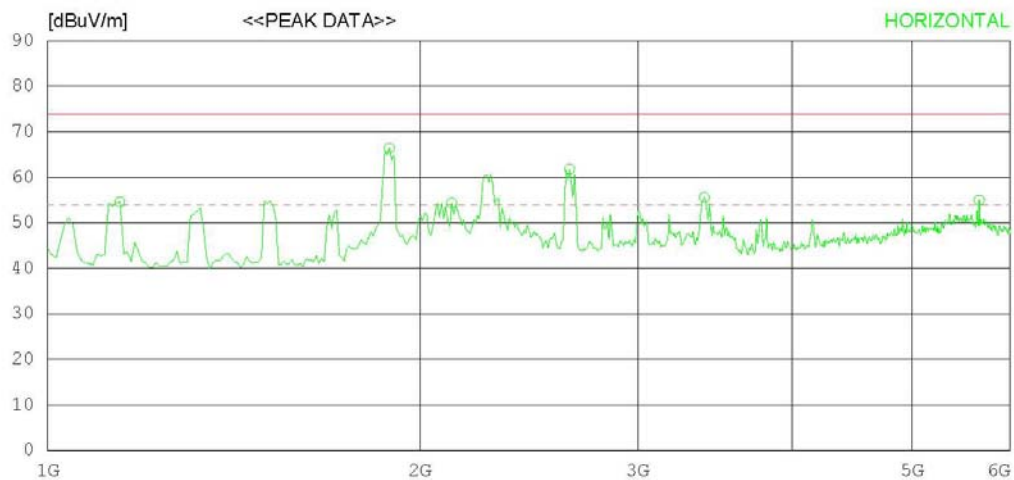
Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1144.231	65.4	24.1	3.6	38.5	54.6	74.0	19.4	100	132
2	1889.423	74.9	24.6	4.6	37.7	66.4	74.0	7.6	100	358
3	2121.796	61.8	25.3	4.8	37.5	54.4	74.0	19.6	100	151
4	2642.637	65.8	27.9	5.4	37.3	61.8	74.0	12.2	100	217
5	3395.853	57.7	28.9	6.1	37.1	55.6	74.0	18.4	100	243
6	5663.467	49.2	34.0	8.1	36.3	55.0	74.0	19	100	358
----- Vertical -----										
7	1328.526	65.2	24.4	3.8	38.2	55.2	74.0	18.8	100	212
8	1496.795	66.0	24.6	4.1	37.9	56.8	74.0	17.2	100	179
9	1713.141	67.0	24.6	4.3	37.8	58.1	74.0	15.9	100	220
10	2065.705	64.9	24.9	4.8	37.6	57.0	74.0	17	100	1
11	2250.003	68.7	26.0	5.0	37.5	62.2	74.0	11.8	100	235
12	3019.245	60.3	29.0	5.7	37.3	57.7	74.0	16.3	100	1

< DSUB MODE _ (1 ~ 6) GHz _ Average >

RADIATED EMISSION

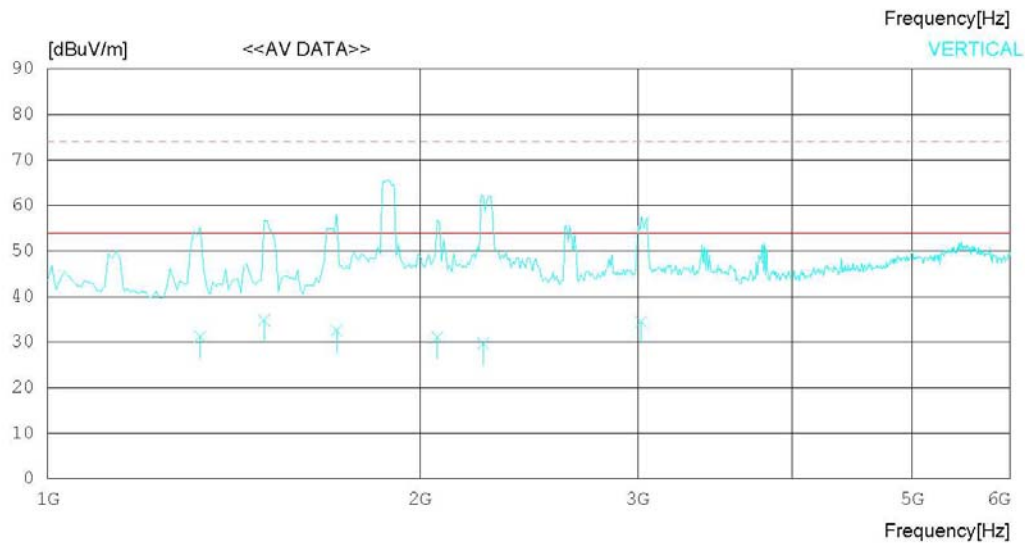
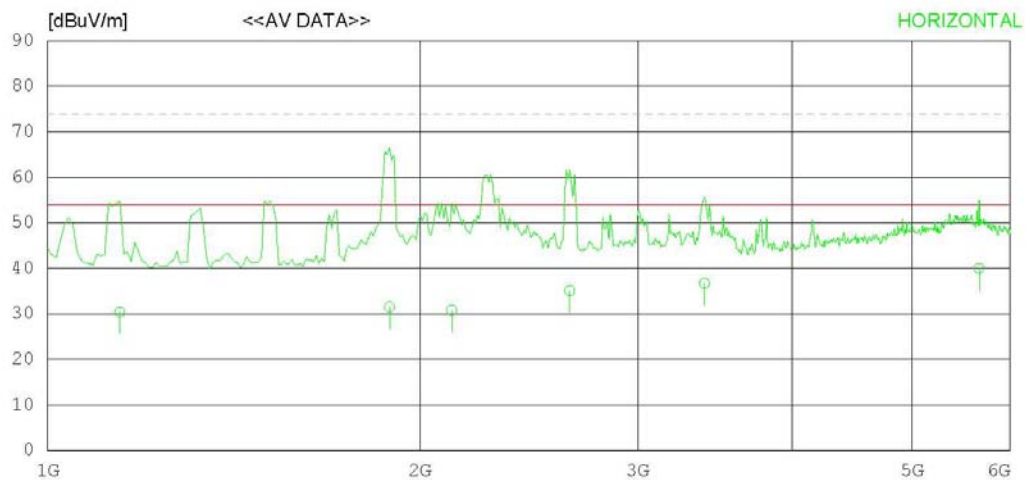
Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1144.231	41.2	24.1	3.6	38.5	30.4	54.0	23.6	100	132
2	1889.423	40.0	24.6	4.6	37.7	31.5	54.0	22.5	100	358
3	2121.796	38.2	25.3	4.8	37.5	30.8	54.0	23.2	100	151
4	2642.637	39.1	27.9	5.4	37.3	35.1	54.0	18.9	100	217
5	3395.853	38.8	28.9	6.1	37.1	36.7	54.0	17.3	100	243
6	5663.467	34.2	34.0	8.1	36.3	40.0	54.0	14.0	100	358
----- Vertical -----										
7	1328.526	41.2	24.4	3.8	38.2	31.2	54.0	22.8	100	212
8	1496.795	44.0	24.6	4.1	37.9	34.8	54.0	19.2	100	179
9	1713.141	41.5	24.6	4.3	37.8	32.6	54.0	21.4	100	220
10	2065.705	39.0	24.9	4.8	37.6	31.1	54.0	22.9	100	1
11	2250.003	36.2	26.0	5.0	37.5	29.7	54.0	24.3	100	235
12	3019.245	37.1	29.0	5.7	37.3	34.5	54.0	19.5	100	1

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

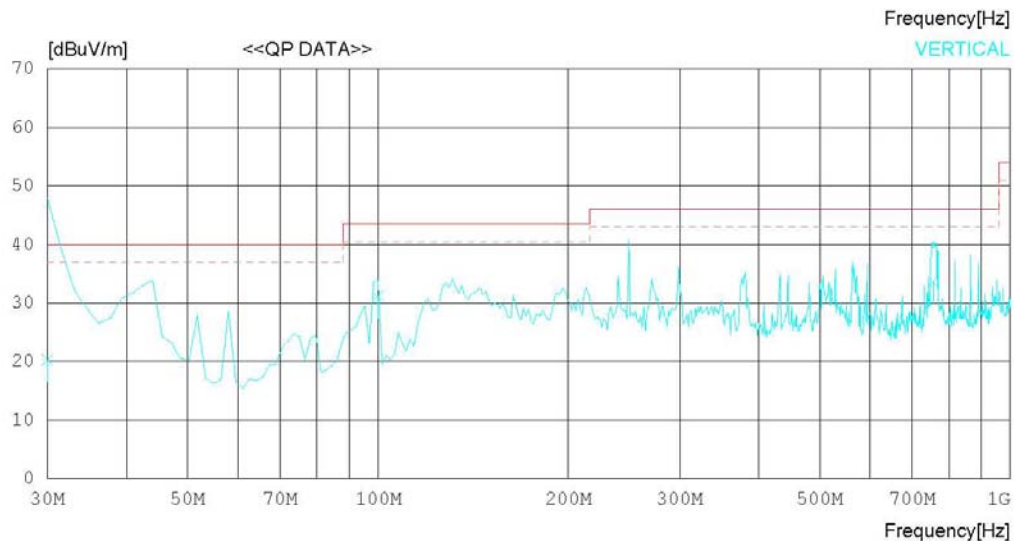
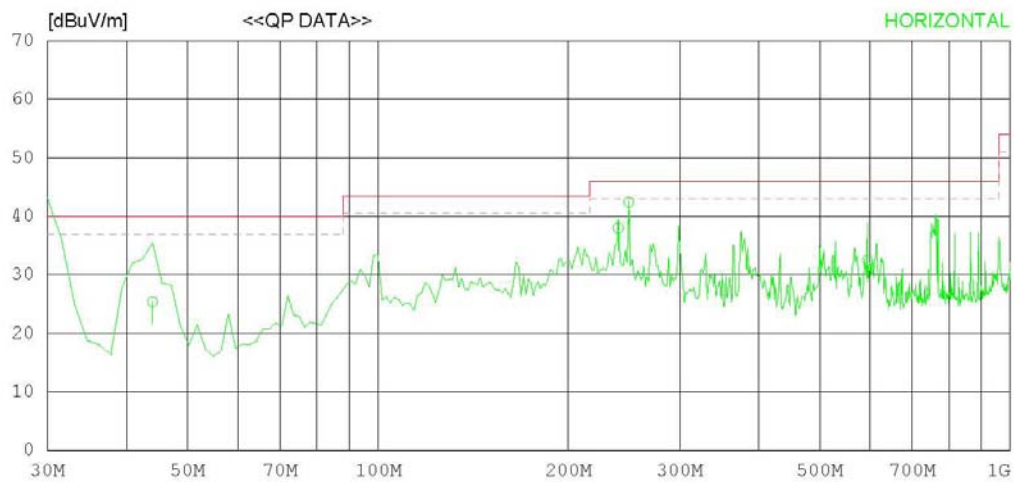
Date : 2013-03-11

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 37 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2013-03-11

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 37 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	43.990	34.8	13.7	1.1	24.2	25.4	40.0	14.6	400	65
2	239.856	47.2	12.1	2.5	23.8	38.0	46.0	8.0	100	358
3	249.183	50.9	12.7	2.6	23.8	42.4	46.0	3.6	100	358
4	594.278	33.2	18.6	4.1	23.4	32.5	46.0	13.5	280	359
----- Vertical -----										
5	30.000	25.4	17.9	0.8	23.8	20.3	40.0	19.7	207	12
6	99.952	43.1	10.7	1.4	24.1	31.1	43.5	12.4	100	1
7	755.946	33.2	19.4	4.6	23.6	33.6	46.0	12.4	100	1

< HDMI MODE _ (1 ~ 6) GHz _ Peak >

RADIATED EMISSION

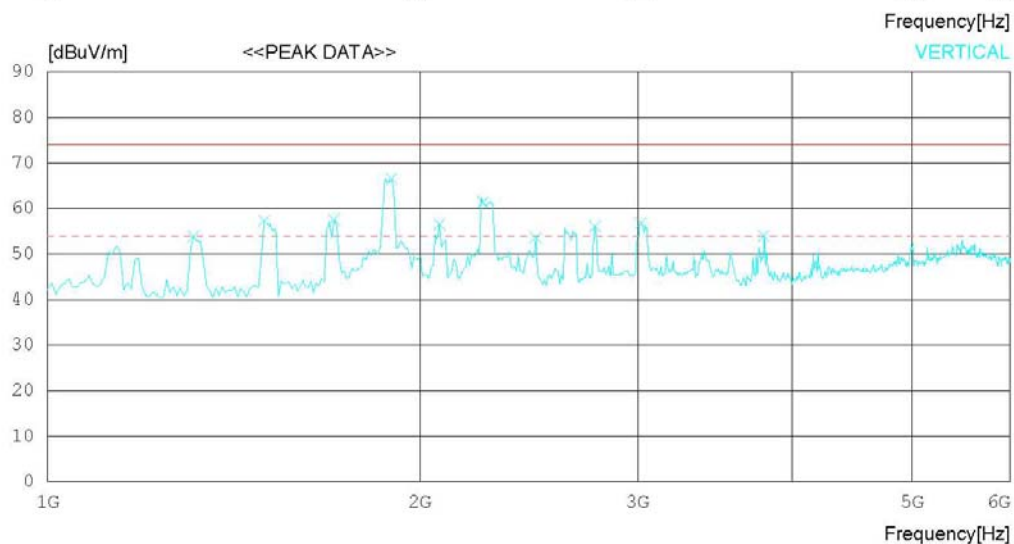
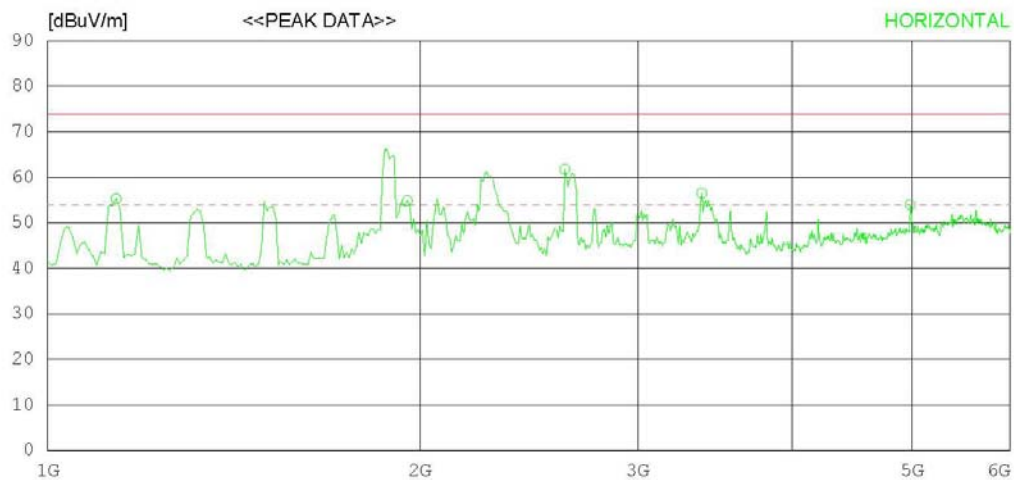
Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2013-03-13

Model Name : 37LT777H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 39 % R.H
Test Condition : HDMI	Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1136.218	66.3	24.1	3.5	38.6	55.3	74.0	18.7	100	134
2	1953.525	63.2	24.6	4.7	37.6	54.9	74.0	19.1	100	244
3	2618.598	66.0	27.8	5.3	37.3	61.8	74.0	12.2	100	1
4	3379.827	58.6	28.9	6.1	37.1	56.5	74.0	17.5	100	1
5	4982.388	50.4	32.4	7.9	36.7	54.0	74.0	20	100	1
----- Vertical -----										
6	1312.500	63.8	24.4	3.8	38.2	53.8	74.0	20.2	100	186
7	1496.795	66.5	24.6	4.1	37.9	57.3	74.0	16.7	100	358
8	1705.128	66.4	24.6	4.3	37.8	57.5	74.0	16.5	100	211
9	1897.436	75.1	24.6	4.6	37.7	66.6	74.0	7.4	100	358
10	2073.718	64.4	25.0	4.8	37.6	56.6	74.0	17.4	100	358
11	2250.003	67.9	26.0	5.0	37.5	61.4	74.0	12.6	100	358
12	2482.378	58.4	27.3	5.2	37.3	53.6	74.0	20.4	100	229
13	2770.844	59.6	28.3	5.5	37.3	56.1	74.0	17.9	100	358
14	3019.245	59.4	29.0	5.7	37.3	56.8	74.0	17.2	100	358
15	3796.500	54.6	29.6	6.5	36.7	54.0	74.0	20	100	200

< HDMI MODE _ (1 ~ 6) GHz _ Average >

RADIATED EMISSION

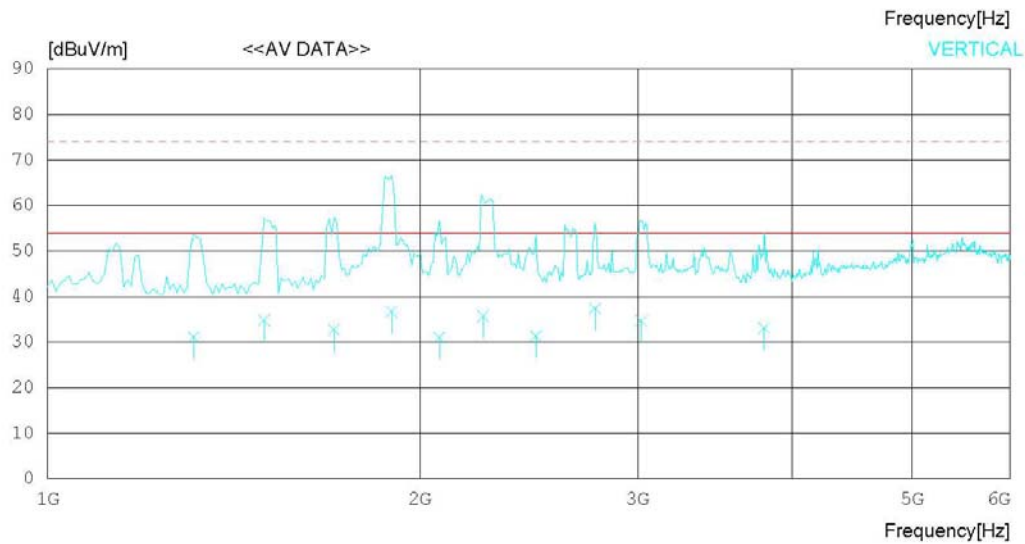
Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1136.218	42.0	24.1	3.5	38.6	31.0	54.0	23.0	100	134
2	1953.525	39.8	24.6	4.7	37.6	31.5	54.0	22.5	100	244
3	2618.598	37.5	27.8	5.3	37.3	33.3	54.0	20.7	100	1
4	3379.827	36.9	28.9	6.1	37.1	34.8	54.0	19.2	100	1
5	4982.388	33.9	32.4	7.9	36.7	37.5	54.0	16.5	100	1
----- Vertical -----										
6	1312.500	41.1	24.4	3.8	38.2	31.1	54.0	22.9	100	186
7	1496.795	44.0	24.6	4.1	37.9	34.8	54.0	19.2	100	358
8	1705.128	41.7	24.6	4.3	37.8	32.8	54.0	21.2	100	211
9	1897.436	45.2	24.6	4.6	37.7	36.7	54.0	17.3	100	358
10	2073.718	38.9	25.0	4.8	37.6	31.1	54.0	22.9	100	358
11	2250.003	42.2	26.0	5.0	37.5	35.7	54.0	18.3	100	358
12	2482.378	36.1	27.3	5.2	37.3	31.3	54.0	22.7	100	229
13	2770.844	40.9	28.3	5.5	37.3	37.4	54.0	16.6	100	358
14	3019.245	37.3	29.0	5.7	37.3	34.7	54.0	19.3	100	358
15	3796.500	33.7	29.6	6.5	36.7	33.1	54.0	20.9	100	200

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

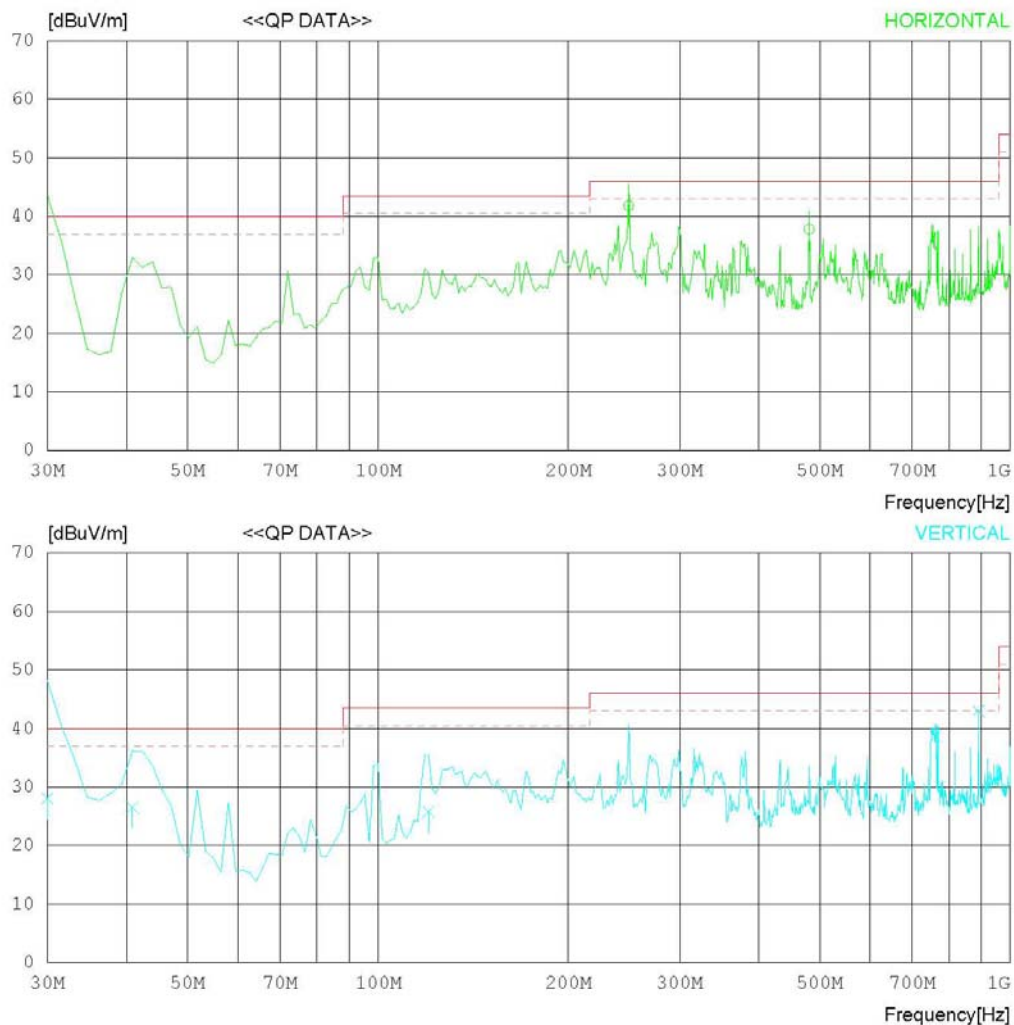
Date : 2013-03-11

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 37 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2013-03-11

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 37 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	249.183	50.3	12.7	2.6	23.8	41.8	46.0	4.2	100	48
2	480.800	40.0	17.1	3.8	23.1	37.8	46.0	8.2	322	262
----- Vertical -----										
3	30.000	33.2	17.9	0.8	23.8	28.1	40.0	11.9	167	289
4	40.881	36.7	13.0	1.1	24.2	26.6	40.0	13.4	100	358
5	120.160	36.7	11.6	1.6	24.1	25.8	43.5	17.7	100	358
6	762.164	38.1	19.4	4.7	23.6	38.6	46.0	7.4	100	358
7	891.188	40.2	20.7	5.2	23.1	43.0	46.0	3.0	100	358

< USB MODE _ (1 ~ 6) GHz _ Peak >

RADIATED EMISSION

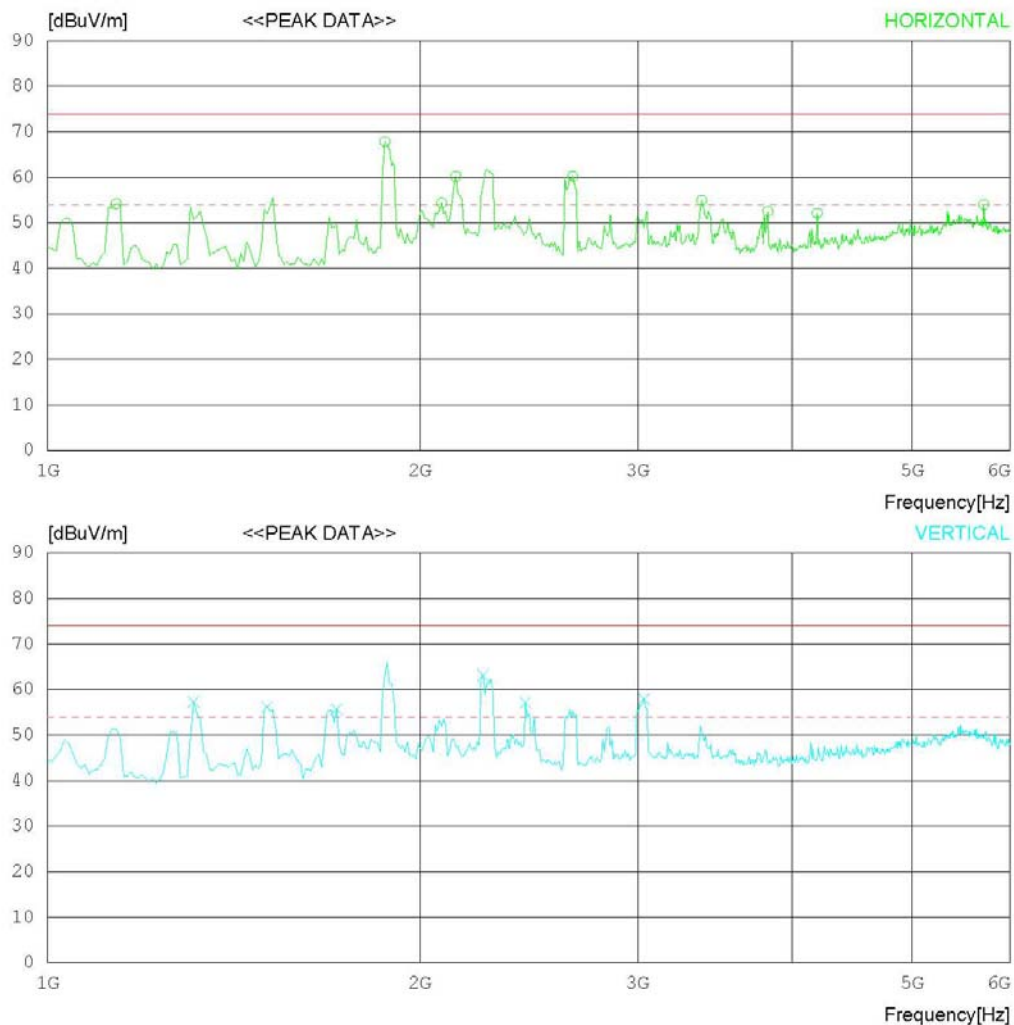
Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2013-03-13

Model Name : 37LT777H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 39 % R.H
Test Condition : USB	Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1136.218	65.2	24.1	3.5	38.6	54.2	74.0	19.8	100	129
2	1873.397	76.3	24.6	4.6	37.7	67.8	74.0	6.2	100	211
3	2081.731	62.2	25.0	4.8	37.6	54.4	74.0	19.6	100	358
4	2137.822	67.5	25.3	4.9	37.5	60.2	74.0	13.8	100	358
5	2658.663	64.2	27.9	5.4	37.3	60.2	74.0	13.8	100	237
6	3379.827	57.1	28.9	6.1	37.1	55.0	74.0	19	100	358
7	3820.539	53.0	29.7	6.5	36.7	52.5	74.0	21.5	100	358
8	4189.131	51.4	30.4	6.8	36.5	52.1	74.0	21.9	100	358
9	5711.543	48.5	33.7	8.1	36.3	54.0	74.0	20	100	358
----- Vertical -----										
10	1312.500	67.3	24.4	3.8	38.2	57.3	74.0	16.7	100	180
11	1504.807	65.4	24.6	4.1	37.9	56.2	74.0	17.8	100	1
12	1713.141	64.6	24.6	4.3	37.8	55.7	74.0	18.3	100	213
13	2250.003	69.6	26.0	5.0	37.5	63.1	74.0	10.9	100	234
14	2434.300	62.1	27.1	5.2	37.3	57.1	74.0	16.9	100	218
15	3035.271	60.5	29.0	5.7	37.3	57.9	74.0	16.1	100	199

< USB MODE _ (1 ~ 6) GHz _ Average >

RADIATED EMISSION

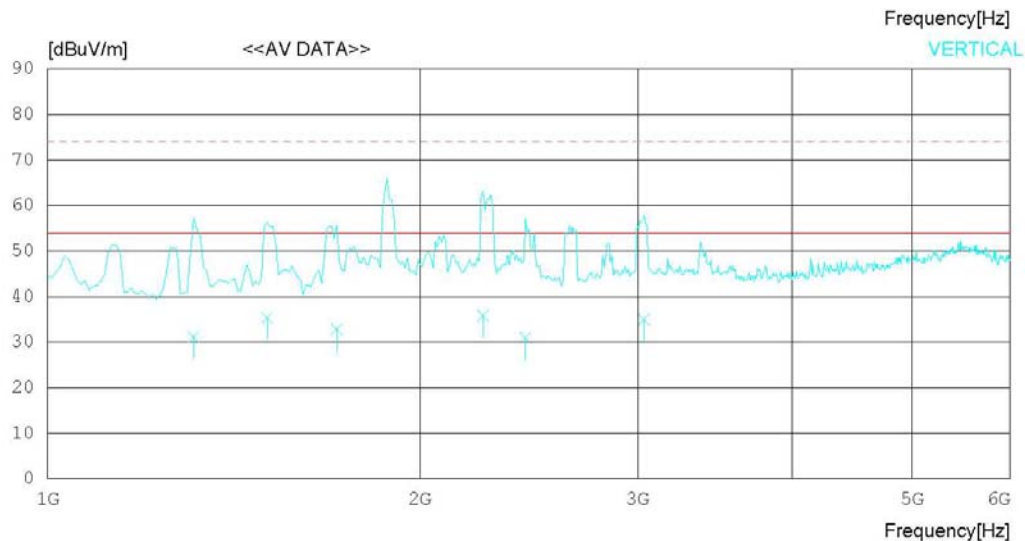
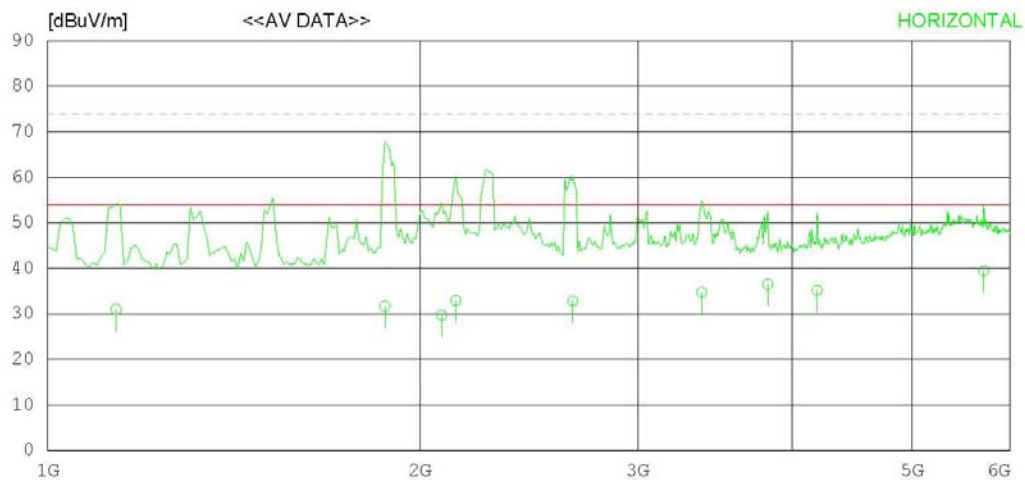
Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2013-03-13

Model Name : 37LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1136.218	42.0	24.1	3.5	38.6	31.0	54.0	23.0	100	129
2	1873.397	40.2	24.6	4.6	37.7	31.7	54.0	22.3	100	211
3	2081.731	37.5	25.0	4.8	37.6	29.7	54.0	24.3	100	358
4	2137.822	40.2	25.3	4.9	37.5	32.9	54.0	21.1	100	358
5	2658.663	36.8	27.9	5.4	37.3	32.8	54.0	21.2	100	237
6	3379.827	36.9	28.9	6.1	37.1	34.8	54.0	19.2	100	358
7	3820.539	37.0	29.7	6.5	36.7	36.5	54.0	17.5	100	358
8	4189.131	34.5	30.4	6.8	36.5	35.2	54.0	18.8	100	358
9	5711.543	34.0	33.7	8.1	36.3	39.5	54.0	14.5	100	358
----- Vertical -----										
10	1312.500	41.2	24.4	3.8	38.2	31.2	54.0	22.8	100	180
11	1504.807	44.6	24.6	4.1	37.9	35.4	54.0	18.6	100	1
12	1713.141	41.7	24.6	4.3	37.8	32.8	54.0	21.2	100	213
13	2250.003	42.3	26.0	5.0	37.5	35.8	54.0	18.2	100	234
14	2434.300	35.9	27.1	5.2	37.3	30.9	54.0	23.1	100	218
15	3035.271	37.6	29.0	5.7	37.3	35.0	54.0	19.0	100	199

Appendix 1

List of Test and Measurement Instruments

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐ SPECTRUM ANALYZER	8591E	H/P	3649A05889	2013.02.28	2014.02.28
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2012.07.02	2013.07.02
☐ LISN	KNW-407	KYORITSU	8-317-8	2013.01.08	2014.01.08
☐ LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2012.07.25	2013.07.25
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2012.09.18	2013.09.18
☒ LISN	LISN1600	TTI	197204	2012.07.02	2013.07.02
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2013.01.08	2014.01.08
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.11.06	2014.11.06
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒ AMPLIFIER	8447E	H/P	2945A02865	2013.01.08	2014.01.08
☒ PREAMPLIFIER	8449B	AGILENT	3008A01590	2013.02.27	2014.02.27
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2012.07.11	2013.07.11
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2012.03.12	2014.03.12
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2013.02.28	2014.02.28

Appendix 2

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	N/A	N/A