

EMC TEST REPORT

Test item : LED LCD TV Monitor
Model No. : 37LT670H-UA
Order No. : 1202-00284
Date of receipt : 2012-02-22
Test duration : 2012-03-01 ~ 2012-03-04
Use of report : FCC CoC Marking
Date of Issue : 2012-03-05

Applicant : LG Electronics Inc.

9-1, 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 : (18 ~ 19) °C,
Humidity : (34 ~ 35) % 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.

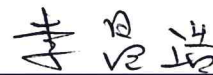
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Tested by:



Assistant Manager
D.H.EUN

Reviewed by:



General Manager
C.H.LEE

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme,
which signed the ILAC-MRA.

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	ROK1124C	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.	37LT670H-UA
EUT Type	LED LCD TV Monitor
Serial No	NONE
FCC ID	BEJ37LT670HUA
Type of Sample Tested	Pre-Production
High Frequency	667 MHz
Rating	AC100-240 V~, 50/60 Hz, 0.9 A
Supplied Power for Test	AC120 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

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640x350	31.46	70.09
720x400	31.46	70.08
640x480	31.46	59.94
800x600	37.87	60.31
1024x768	48.36	60.00
1280x768	47.77	59.87
1360x768	47.71	60.01
1280x1024	63.98	60.02
1600x1200	75.00	60.00
1920x1080 RGB-PC	66.58	59.93
1920x1080 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.)	Pressure (hPa)
Conducted Disturbance	03-04	19	34	-
Radiated Disturbance	03-01	18	34	
	03-02	18	35	

4.3 Test result Summary

(1) Conducted Emission(DSUB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.16998	L1	52.2	Quasi-Peak	65.0	12.8

(2) Radiated Emission(DSUB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
180.775	H	40.3	Quasi-Peak	43.5	3.2

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 + LAN MODE – Resolution : 1920 x 1080 Resolution (Worst Case)
- HDMI + LAN MODE – Resolution : 1920 x 1080 Resolution (Worst Case)
- USB MODE

EUT is the following operational conditions apply:

- a) Set the contrast control to maximum.
- b) Set the brightness control to maximum or at raster extinction if raster extinction occurs at less than maximum brightness.
- c) For color monitors, use white letters on a black background to represent all colors.
- d) Select the worse case of positive or negative video if both alternatives are available.
- e) Set character size and number of characters per line so that the typical maximum number of characters per screen is displayed.
- f) For a monitor that has no graphics capabilities, regardless of the video card used, a pattern consisting of random text shall be displayed. For a monitor with graphics capability, even though another videocard may be needed to accomplish a graphic display, a screen pattern consisting of lines of scrolling H's should be displayed. For a monitor that has no text capabilities, use a typical display. That pattern should be used for the remainder of the tests.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTRO 430	9K77SBX	DELL	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				DSUB	1.6	Use	Shield		
				LAN	1.8	Not use	Non-shield		
				STEREO	1.6	Not use	Non-shield		
				PS/2	1.6	Not use	Non-shield		
				PS/2	1.8	Not use	Non-shield		
KEYBOARD	SKG-210PB	TAKSB24503Y	MONITEREY INTERNATIONAL CORP	PS/2	1.6	Not use	Non-shield	Plastic	DOC
MOUSE	SML-510PB	TAKS903519Z	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER AV	1.8 1.6	Not use	Non-shield	Plastic	DOC
USB MEMORY	JEWELRY	N/A	AXXEN	USB	-	-	-	-	DOC

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, 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 0.8m above the reference ground plane and 0.4m 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 0.15m 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 0.15MHz to 0.5MHz.				

Test Result

< DSUB + LAN MODE >



Results of Conducted Emission

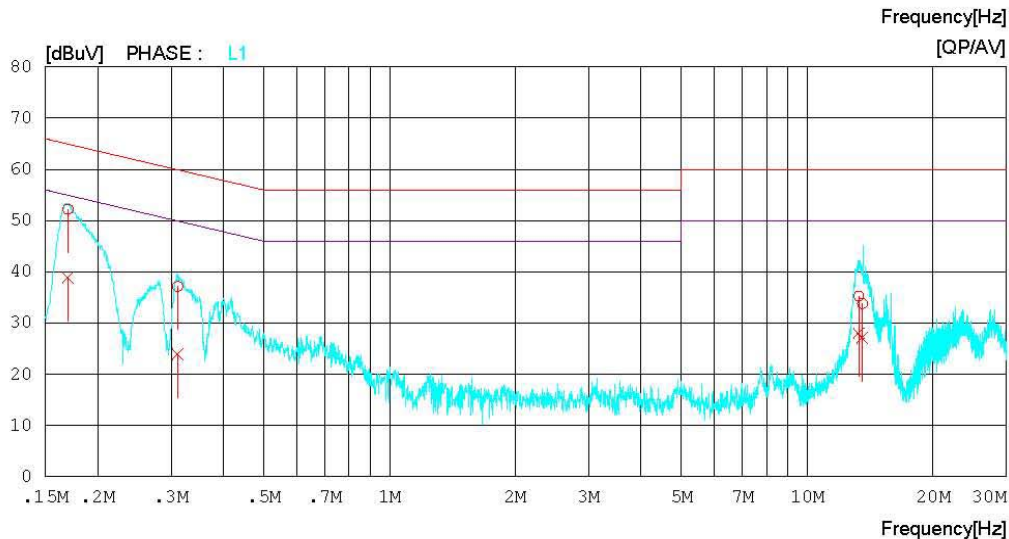
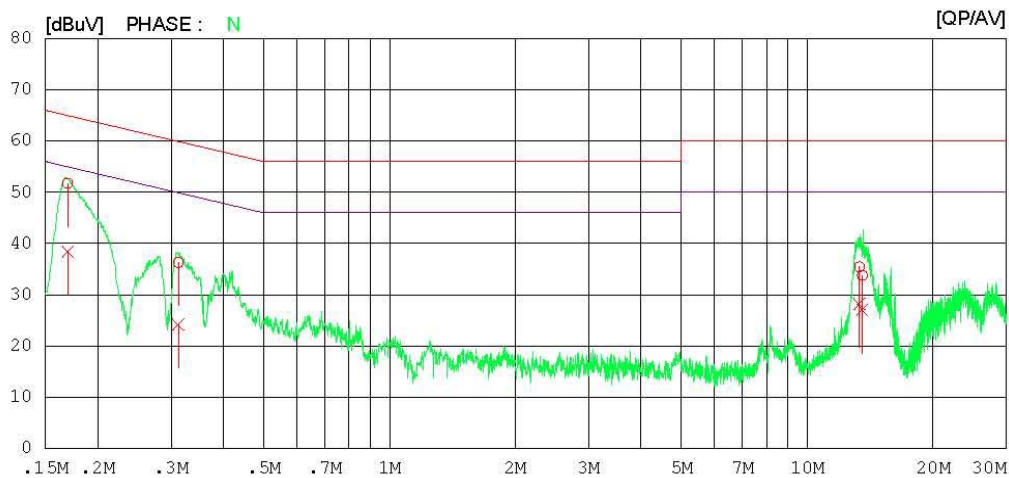
Digital EMC
 Date : 2012-03-04

Model No. : 37LT670H-UA
 Type :
 Serial No. :
 Test Condition : DSUB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 19 °C 34 % R.H.
 Operator :

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2012-03-04

Model No. : 37LT670H-UA
 Type :
 Serial No. :
 Test Condition : DSUB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 19 °C 34 % 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	0.16974	51.5	38.2	0.2	51.7	38.4	65.0	55.0	13.3	16.6	N
2	0.31221	36.1	24.0	0.2	36.3	24.2	59.9	49.9	23.6	25.7	N
3	13.33900	34.5	27.3	0.9	35.4	28.2	60.0	50.0	24.6	21.8	N
4	13.56400	32.9	26.2	0.9	33.8	27.1	60.0	50.0	26.2	22.9	N
5	0.16998	52.0	38.7	0.2	52.2	38.9	65.0	55.0	12.8	16.1	L1
6	0.31105	37.0	23.7	0.2	37.2	23.9	59.9	49.9	22.7	26.0	L1
7	13.30300	34.4	27.1	0.9	35.3	28.0	60.0	50.0	24.7	22.0	L1
8	13.55250	32.9	26.2	0.9	33.8	27.1	60.0	50.0	26.2	22.9	L1

< HDMI + LAN MODE >



Results of Conducted Emission

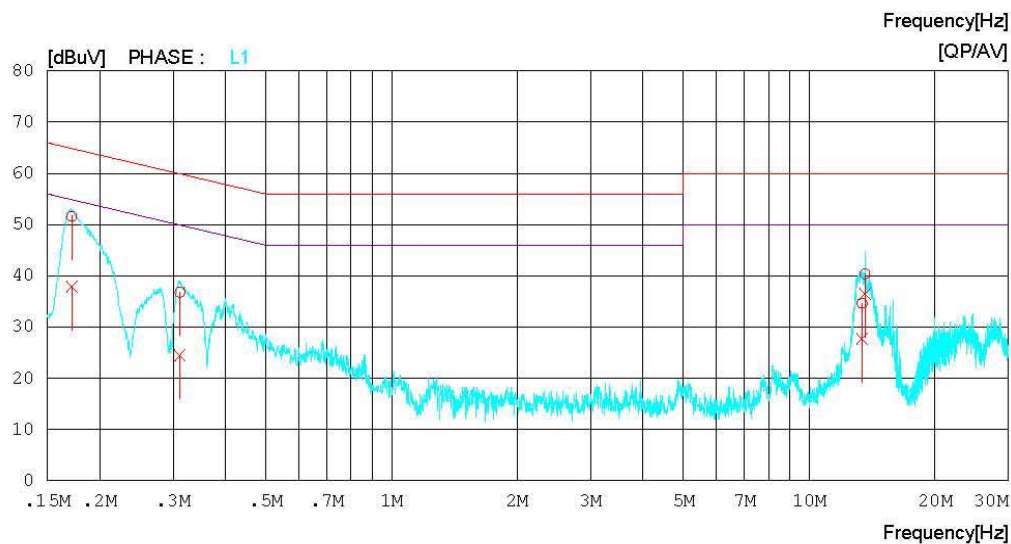
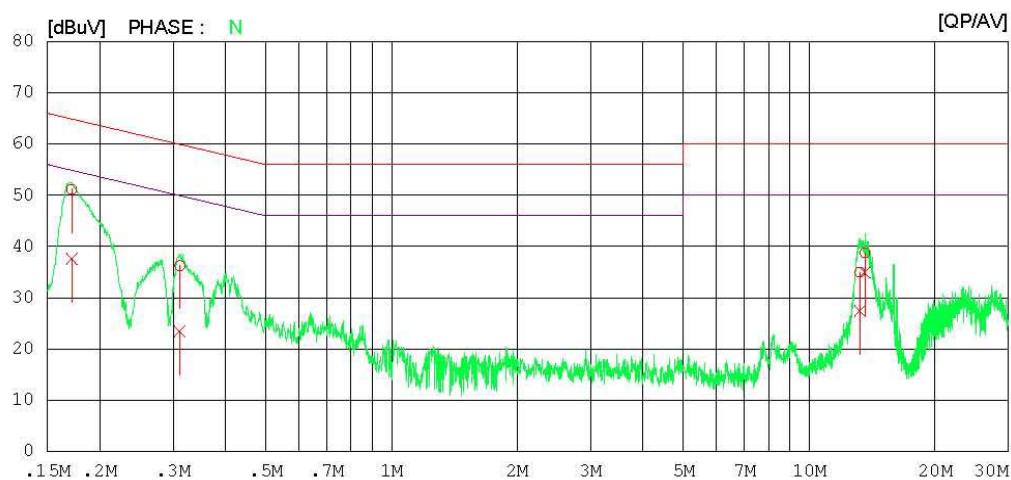
Digital EMC
Date : 2012-03-04

Model No. : 37LT670H-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19°C 34 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2012-03-04

Model No. : 37LT670H-UA
 Type :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 19 °C 34 % 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	0.17163	51.0	37.4	0.2	51.2	37.6	64.9	54.9	13.7	17.3	N
2	0.31128	36.1	23.2	0.2	36.3	23.4	59.9	49.9	23.6	26.5	N
3	13.21800	34.1	26.5	0.9	35.0	27.4	60.0	50.0	25.0	22.6	N
4	13.60850	37.9	34.0	0.9	38.8	34.9	60.0	50.0	21.2	15.1	N
5	0.17163	51.5	37.7	0.2	51.7	37.9	64.9	54.9	13.2	17.0	L1
6	0.31168	36.6	24.3	0.2	36.8	24.5	59.9	49.9	23.1	25.4	L1
7	13.38850	33.7	26.9	0.9	34.6	27.8	60.0	50.0	25.4	22.2	L1
8	13.60950	39.5	35.5	0.9	40.4	36.4	60.0	50.0	19.6	13.6	L1

< USB MODE >



Results of Conducted Emission

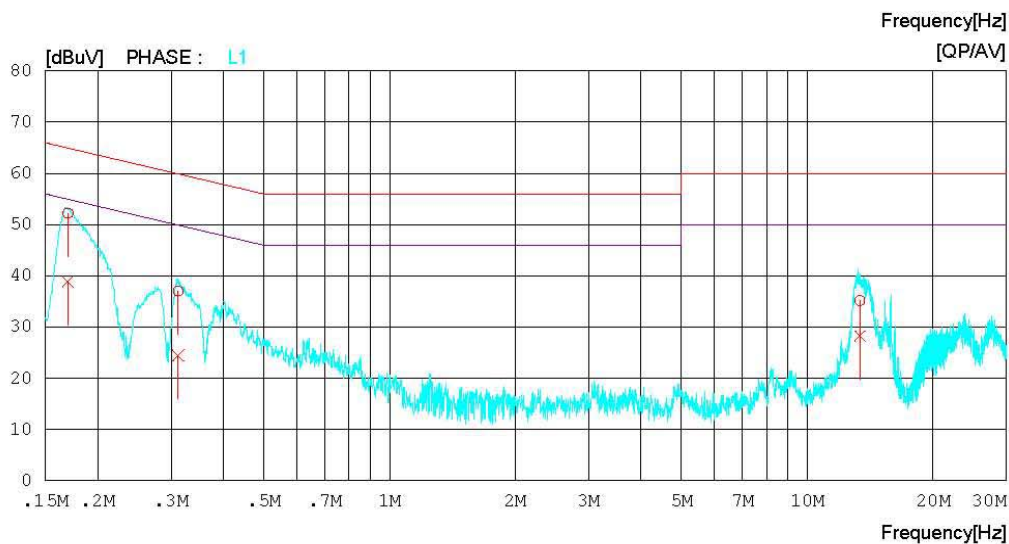
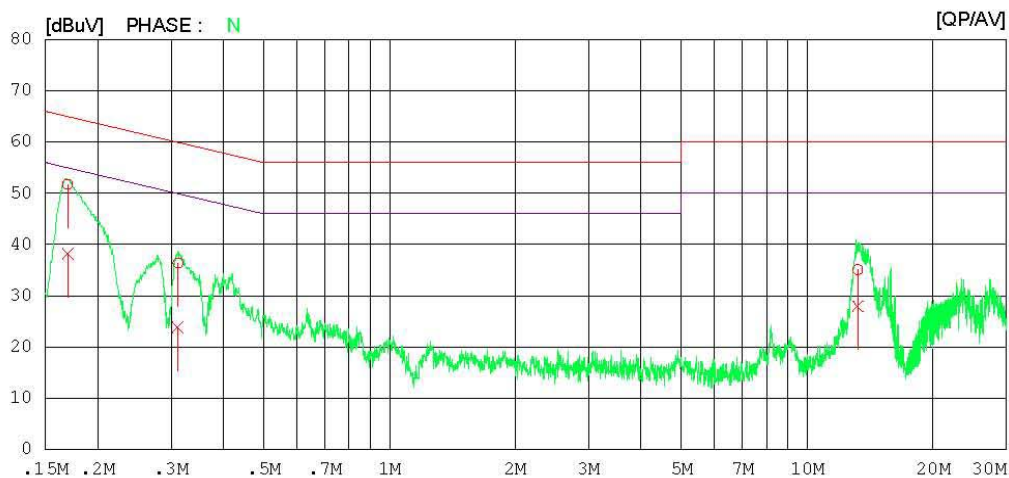
Digital EMC
 Date : 2012-03-04

Model No. : 37LT670H-UA
 Type :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 19°C 34 % R.H.
 Operator :

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2012-03-04

Model No. : 37LT670H-UA
 Type :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 19 °C 34 % 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	0.16963	51.5	38.0	0.2	51.7	38.2	65.0	55.0	13.3	16.8	N
2	0.31175	36.2	23.6	0.2	36.4	23.8	59.9	49.9	23.5	26.1	N
3	13.22900	34.2	27.0	0.9	35.1	27.9	60.0	50.0	24.9	22.1	N
4	0.16993	52.0	38.7	0.2	52.2	38.9	65.0	55.0	12.8	16.1	L1
5	0.31181	36.8	24.3	0.2	37.0	24.5	59.9	49.9	22.9	25.4	L1
6	13.38300	34.3	27.3	0.9	35.2	28.2	60.0	50.0	24.8	21.8	L1

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 0.8m above the reference ground plane and 3m 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 0.15m above the reference ground plane.

Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4m 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 1GHz frequency range, Quasi-Peak detector with 120kHz RBW was used.

Also Peak and Average detector with 1MHz RBW were used for above 1GHz 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	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

(1) Limit for Radiated Emission below 1000MHz

Frequency range (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m distance)
	Quasi-peak (dB μ V/m)	Quasi-peak (dB μ V/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1000	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 (10m distance)	Class B Equipment (10m distance)
	Quasi-peak (dB μ V/m)	Quasi-peak (dB μ V/m)
30 to 230	40	30
230 to 1000	47	37

(2) Limits for Radiated Emission above 1000MHz at a measuring distance of 3m

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

Test Result

< DSUB + LAN MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

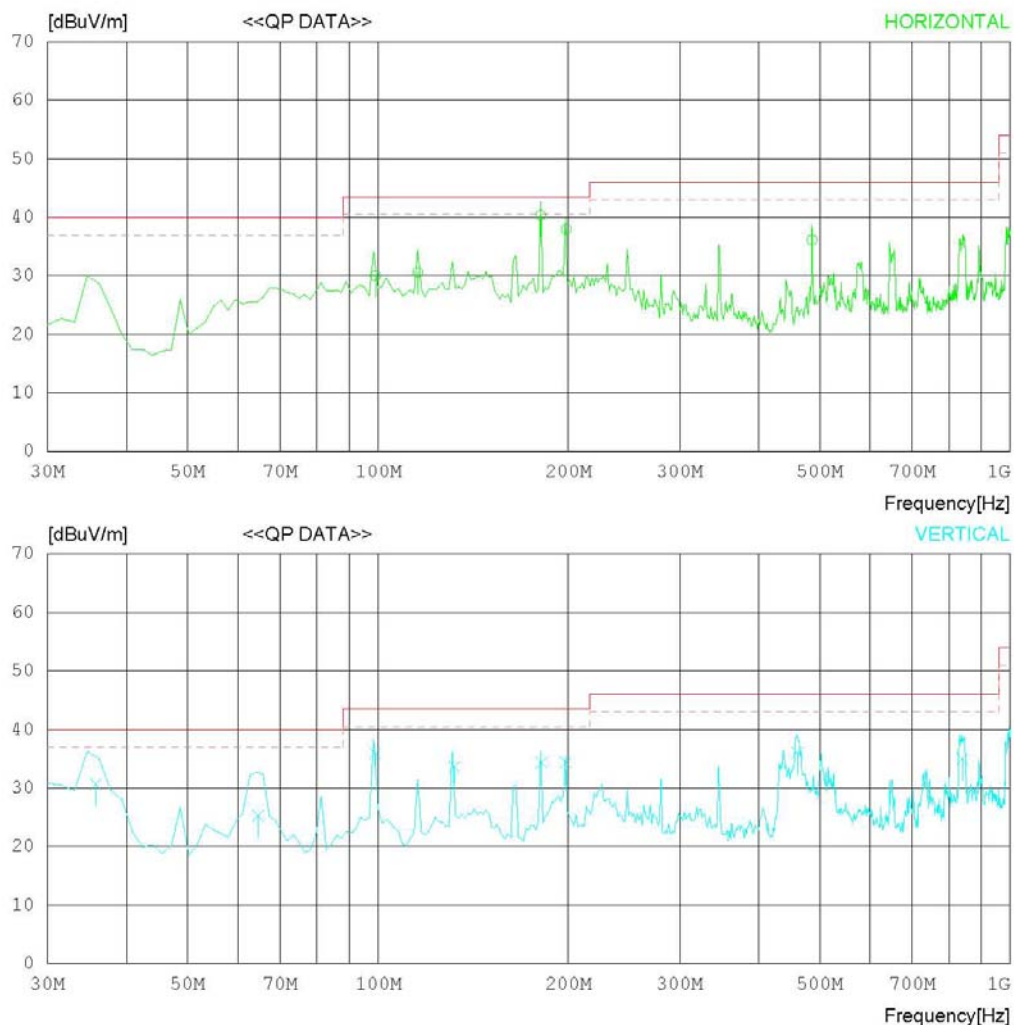
Date : 2012-03-01

Model Name : 37LT670H-UA
 Model No. :
 Serial No. :
 Test Condition : DSUB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 18 °C 34 % R.H.
 Operator :

Memo :

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



RADIATED EMISSION

Date : 2012-03-01

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 34 % 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	98.994	40.7	10.6	1.5	22.8	30.0	43.5	13.5	299	44
2	115.505	40.6	11.4	1.5	22.9	30.6	43.5	12.9	188	239
3	180.785	51.7	9.8	2.0	23.2	40.3	43.5	3.2	100	179
4	198.400	49.6	9.7	2.0	23.3	38.0	43.5	5.5	100	210
5	486.000	40.0	17.4	3.4	24.7	36.1	46.0	9.9	282	358
----- Vertical -----										
6	35.769	36.6	16.3	0.9	23.1	30.7	40.0	9.3	100	201
7	64.551	40.9	5.9	1.2	22.7	25.3	40.0	14.7	100	358
8	98.994	46.7	10.6	1.5	22.8	36.0	43.5	7.5	100	216
9	131.994	43.6	11.4	1.6	23.0	33.6	43.5	9.9	100	358
10	181.495	45.9	9.8	2.0	23.3	34.4	43.5	9.1	100	358
11	198.000	46.0	9.7	2.0	23.3	34.4	43.5	9.1	100	358
12	460.592	40.4	17.0	3.3	24.7	36.0	46.0	10.0	100	358
13	840.040	33.6	20.5	4.4	23.5	35.0	46.0	11.0	100	195

< DSUB + LAN MODE_1 GHz ~ 6 GHz_Peak >

RADIATED EMISSION

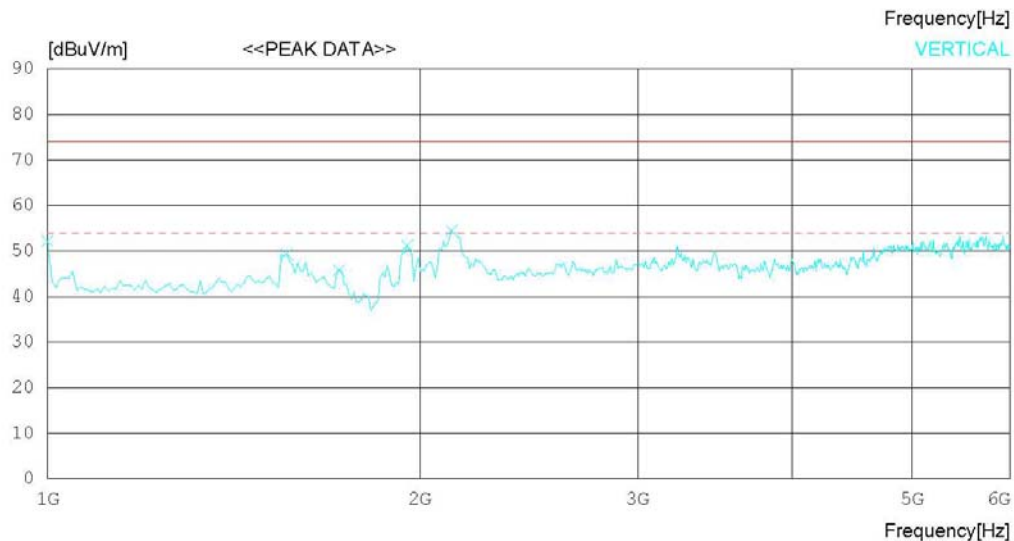
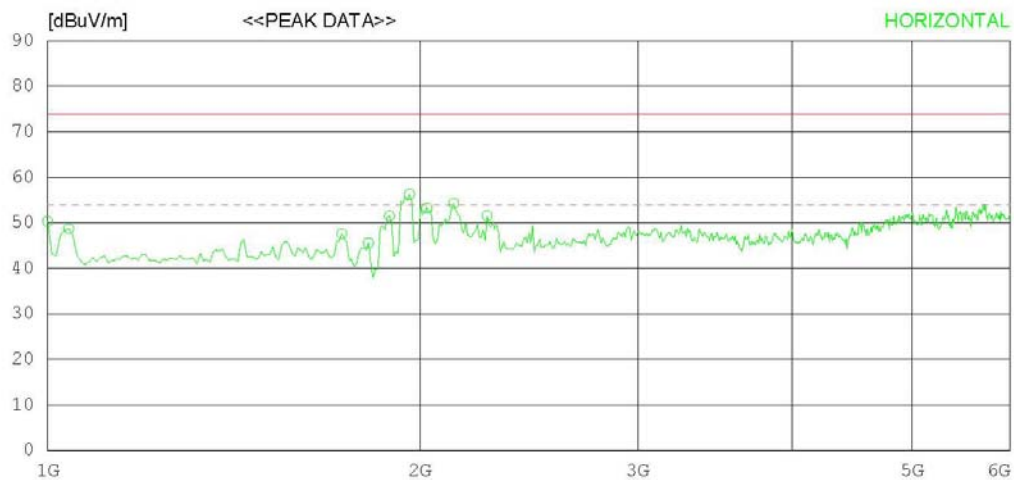
Date : 2012-03-02

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 'C 35 % 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 : 2012-03-02

Model Name : 37LT670H-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °C 35 % R.H.
Test Condition : DSUB	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	1000.000	63.2	23.6	5.3	41.8	50.3	74.0	23.7	100	123
2	1040.064	61.5	23.7	5.3	41.8	48.7	74.0	25.3	100	197
3	1729.166	57.2	25.2	6.9	41.7	47.6	74.0	26.4	100	140
4	1817.307	55.0	25.2	7.2	41.8	45.6	74.0	28.4	100	1
5	1889.423	60.6	25.2	7.4	41.7	51.5	74.0	22.5	100	1
6	1961.538	65.2	25.2	7.6	41.7	56.3	74.0	17.7	100	1
7	2025.641	62.0	25.3	7.7	41.7	53.3	74.0	20.7	100	155
8	2129.809	62.4	25.8	7.8	41.7	54.3	74.0	19.7	100	219
9	2266.029	59.0	26.3	8.0	41.8	51.5	74.0	22.5	100	1
----- Vertical -----										
10	1000.000	65.1	23.6	5.3	41.8	52.2	74.0	21.8	100	358
11	1560.897	59.3	25.1	6.5	41.6	49.3	74.0	24.7	100	180
12	1721.154	55.4	25.2	6.9	41.7	45.8	74.0	28.2	100	187
13	1953.525	60.2	25.2	7.5	41.7	51.2	74.0	22.8	100	156
14	2121.796	62.7	25.7	7.8	41.7	54.5	74.0	19.5	100	358

< DSUB + LAN MODE_1 GHz ~ 6 GHz_Average >

RADIATED EMISSION

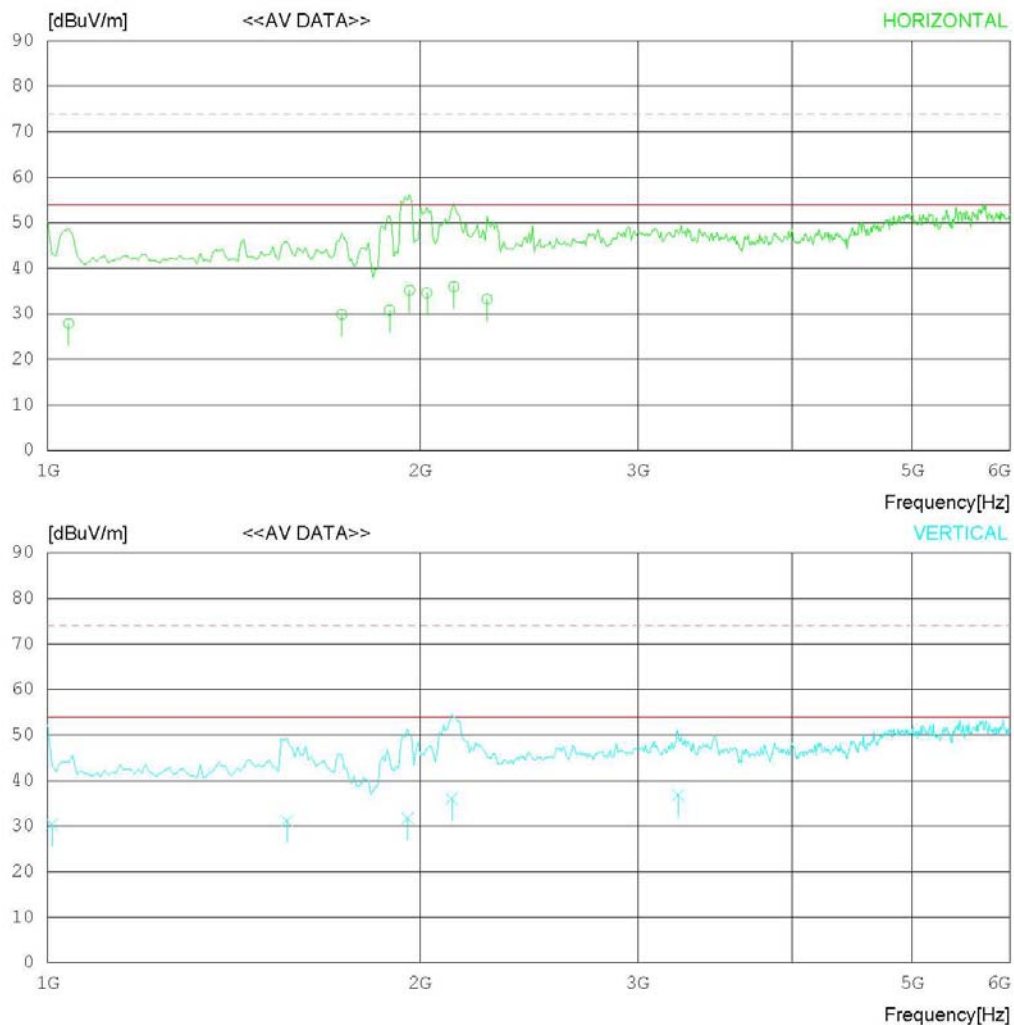
Date : 2012-03-02

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 35 % 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 : 2012-03-02

Model Name : 37LT670H-UA
 Model No. :
 Serial No. :
 Test Condition : DSUB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 18 °C 35 % 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	1040.064	40.7	23.7	5.3	41.8	27.9	54.0	26.1	100	197
2	1729.166	39.5	25.2	6.9	41.7	29.9	54.0	24.1	100	140
3	1889.423	39.9	25.2	7.4	41.7	30.8	54.0	23.2	100	44
4	1961.538	44.1	25.2	7.6	41.7	35.2	54.0	18.8	100	1
5	2025.641	43.3	25.3	7.7	41.7	34.6	54.0	19.4	100	155
6	2129.809	44.1	25.8	7.8	41.7	36.0	54.0	18.0	100	219
7	2266.029	40.7	26.3	8.0	41.8	33.2	54.0	20.8	100	189
----- Vertical -----										
8	1007.930	43.2	23.6	5.3	41.8	30.3	54.0	23.7	100	358
9	1560.897	41.2	25.1	6.5	41.6	31.2	54.0	22.8	100	180
10	3235.487	40.0	29.0	9.6	41.8	36.8	54.0	17.2	100	187
11	1953.525	40.7	25.2	7.5	41.7	31.7	54.0	22.3	100	156
12	2121.796	44.2	25.7	7.8	41.7	36.0	54.0	18.0	100	358

< HDMI + LAN MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

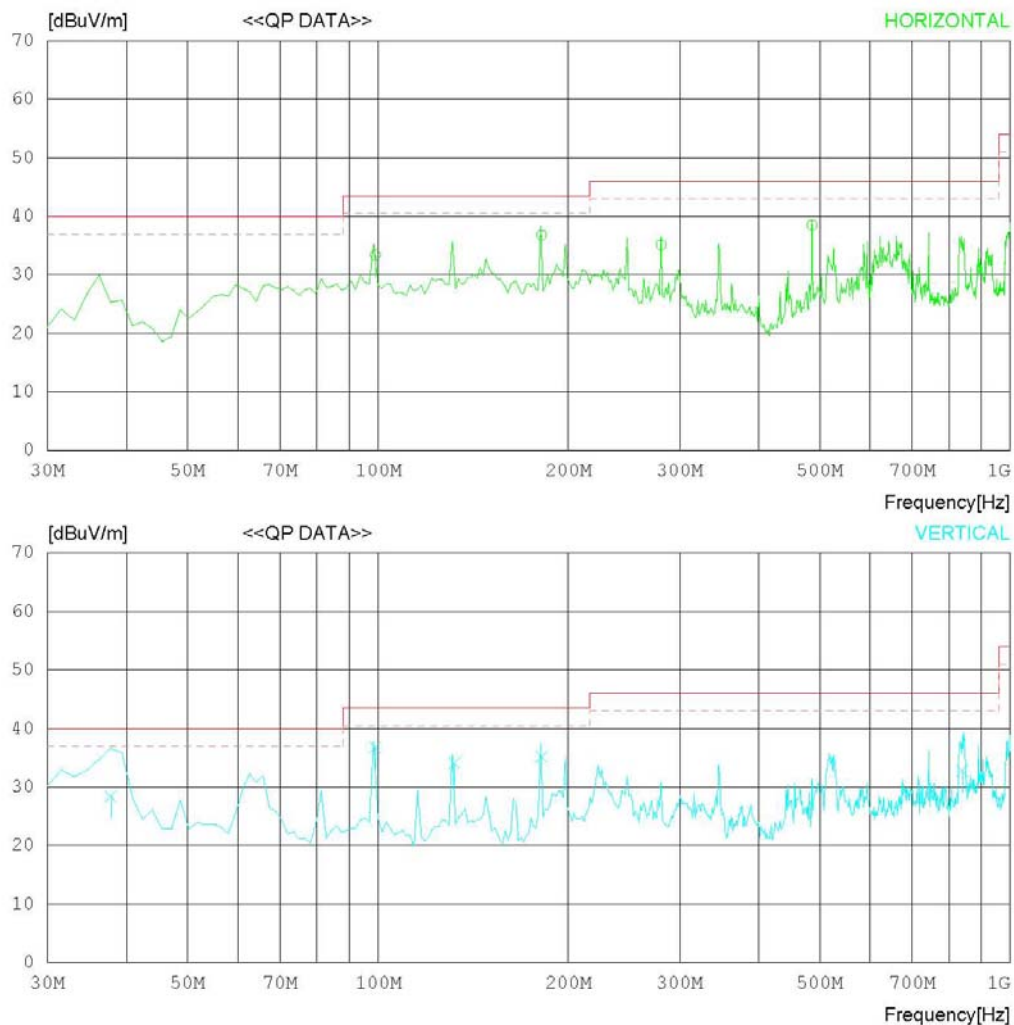
Date : 2012-03-01

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 34 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2012-03-01

Model Name : 37LT670H-UA
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 18 °C 34 % 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	99.015	44.1	10.6	1.5	22.8	33.4	43.5	10.1	182	195
2	181.509	48.3	9.8	2.0	23.3	36.8	43.5	6.7	185	195
3	280.506	42.9	13.5	2.5	23.8	35.1	46.0	10.9	100	90
4	485.997	42.4	17.4	3.4	24.7	38.5	46.0	7.5	226	231
----- Vertical -----										
5	37.772	35.4	15.1	0.9	23.0	28.4	40.0	11.6	100	234
6	99.016	47.5	10.6	1.5	22.8	36.8	43.5	6.7	100	221
7	132.001	44.1	11.4	1.6	23.0	34.1	43.5	9.4	100	1
8	181.509	46.7	9.8	2.0	23.3	35.2	43.5	8.3	100	1
9	840.066	31.4	20.5	4.4	23.5	32.8	46.0	13.2	100	175

< HDMI + LAN MODE_1 GHz ~ 6 GHz_Peak >

RADIATED EMISSION

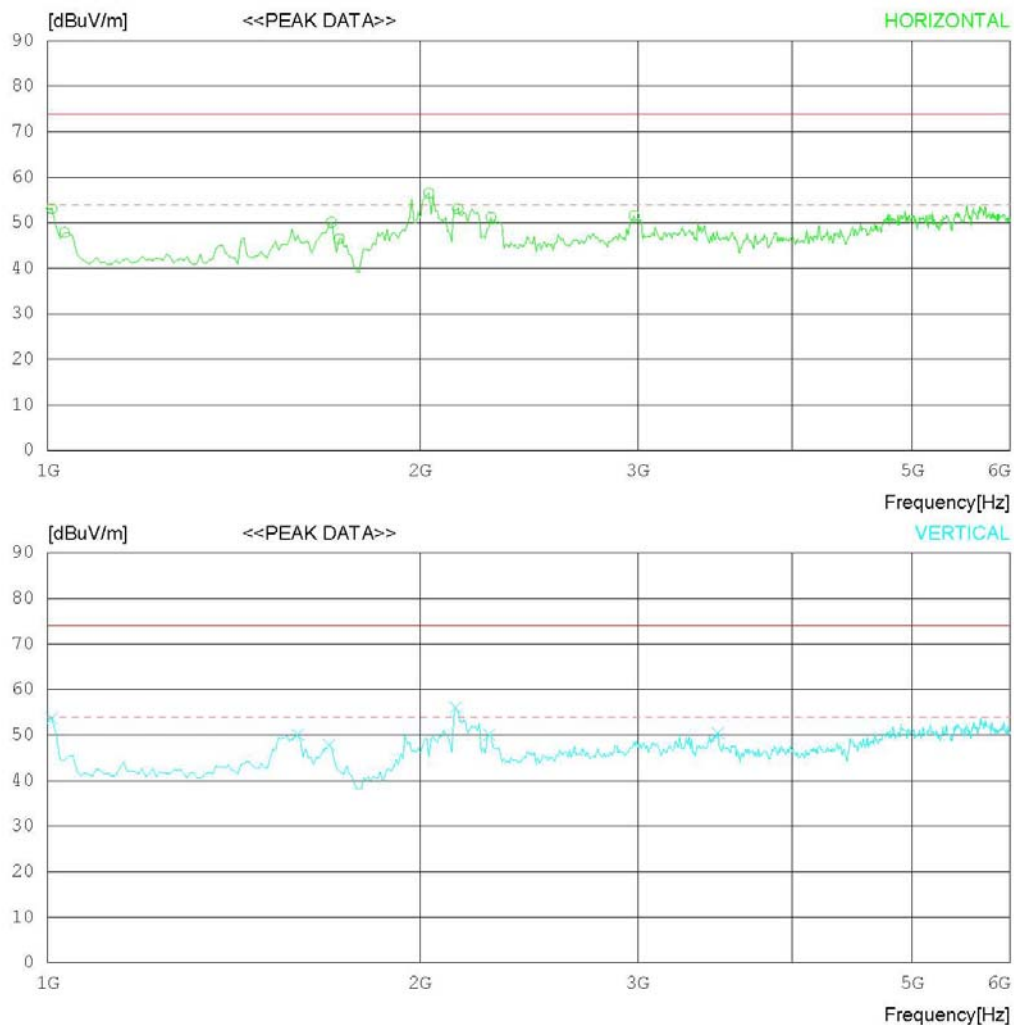
Date : 2012-03-02

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 'C 35 % 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 : 2012-03-02

Model Name : 37LT670H-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °C 35 % 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	1008.013	66.0	23.6	5.3	41.8	53.1	74.0	20.9	100	1
2	1032.051	60.7	23.7	5.3	41.8	47.9	74.0	26.1	100	1
3	1697.115	59.7	25.2	6.9	41.7	50.1	74.0	23.9	100	1
4	1721.154	56.1	25.2	6.9	41.7	46.5	74.0	27.5	100	1
5	2033.653	65.2	25.3	7.7	41.7	56.5	74.0	17.5	100	1
6	2145.834	61.2	25.8	7.8	41.7	53.1	74.0	20.9	100	1
7	2282.054	58.6	26.4	8.0	41.8	51.2	74.0	22.8	100	1
8	2979.180	55.4	28.8	9.2	41.9	51.5	74.0	22.5	100	241
----- Vertical -----										
9	1008.013	66.6	23.6	5.3	41.8	53.7	74.0	20.3	100	219
10	1592.948	59.9	25.2	6.6	41.6	50.1	74.0	23.9	100	358
11	1689.102	57.5	25.2	6.8	41.7	47.8	74.0	26.2	100	147
12	2137.822	64.1	25.8	7.8	41.7	56.0	74.0	18	100	197
13	2274.042	57.5	26.4	8.0	41.8	50.1	74.0	23.9	100	180
14	3483.995	53.3	29.1	10.1	42.0	50.5	74.0	23.5	100	193

< HDMI + LAN MODE_1 GHz ~ 6 GHz_Average >

RADIATED EMISSION

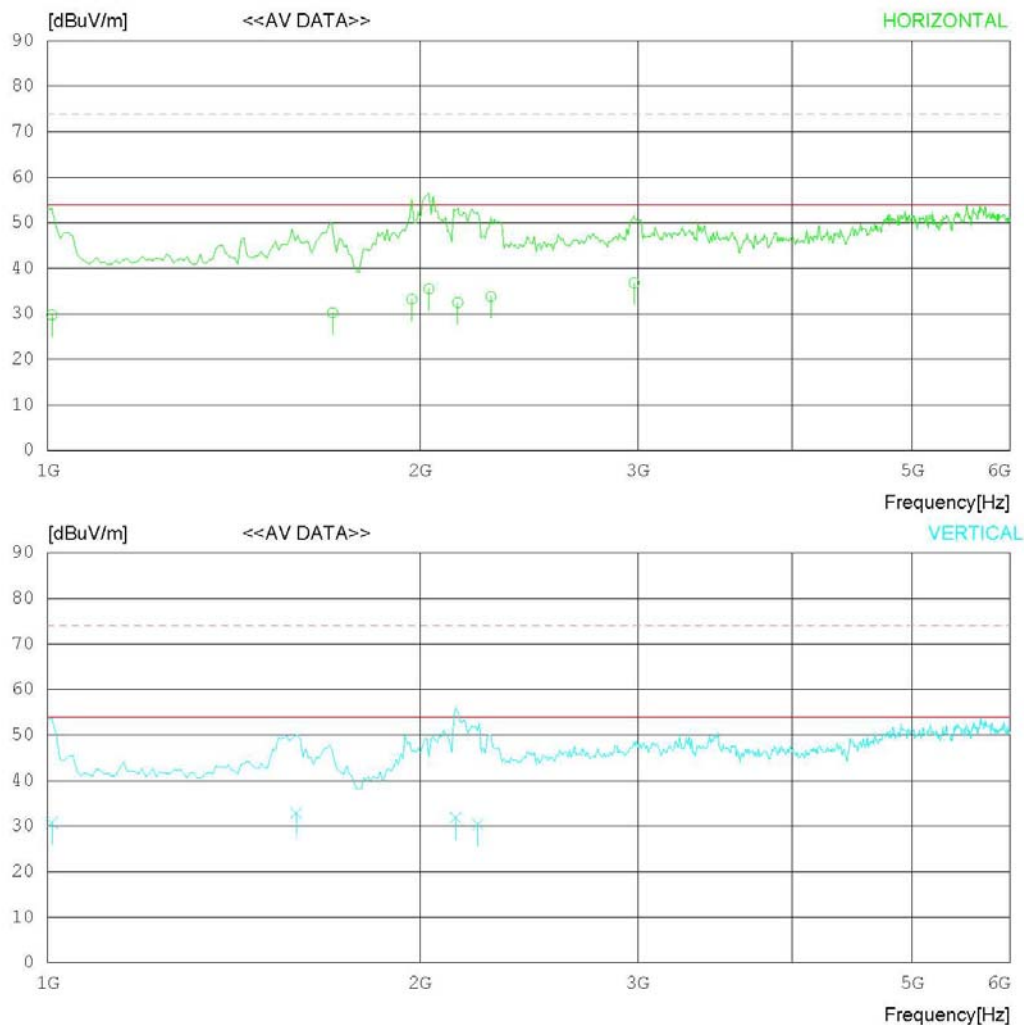
Date : 2012-03-02

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 35 % 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 : 2012-03-02

Model Name : 37LT670H-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °C 35 % R.H.
Test Condition : HDMI	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	1008.013	42.7	23.6	5.3	41.8	29.8	54.0	24.2	100	178
2	1699.820	39.9	25.2	6.9	41.7	30.3	54.0	23.7	100	1
3	1969.754	42.1	25.2	7.6	41.7	33.2	54.0	20.8	100	204
4	2033.653	44.2	25.3	7.7	41.7	35.5	54.0	18.5	100	179
5	2145.834	40.6	25.8	7.8	41.7	32.5	54.0	21.5	100	1
6	2282.054	41.2	26.4	8.0	41.8	33.8	54.0	20.2	100	45
7	2979.180	40.7	28.8	9.2	41.9	36.8	54.0	17.2	100	241
----- Vertical -----										
8	1007.940	43.6	23.6	5.3	41.8	30.7	54.0	23.3	100	53
9	1588.742	42.7	25.2	6.6	41.6	32.9	54.0	21.1	100	358
10	2137.822	39.9	25.8	7.8	41.7	31.8	54.0	22.2	100	197
11	2228.450	38.0	26.2	7.9	41.7	30.4	54.0	23.6	100	180

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

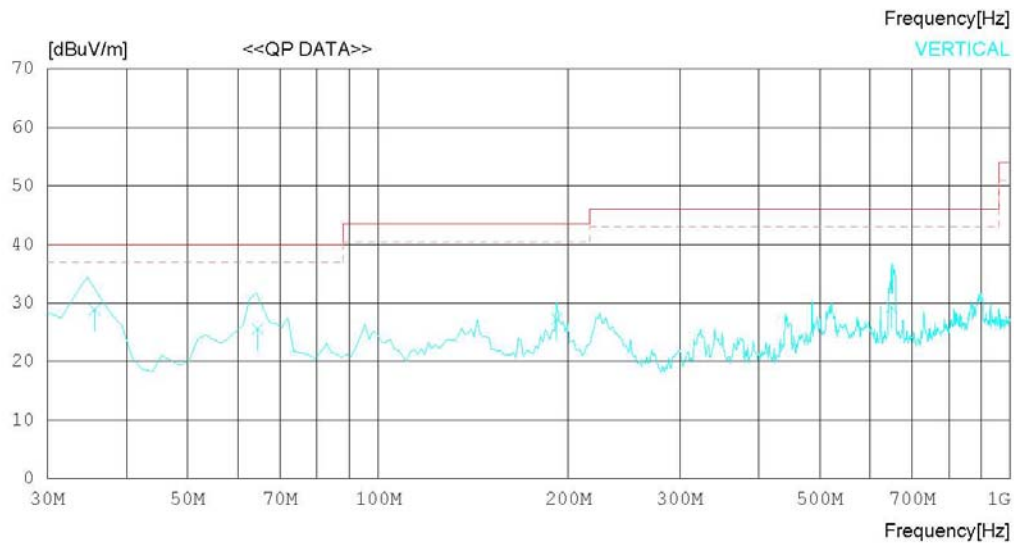
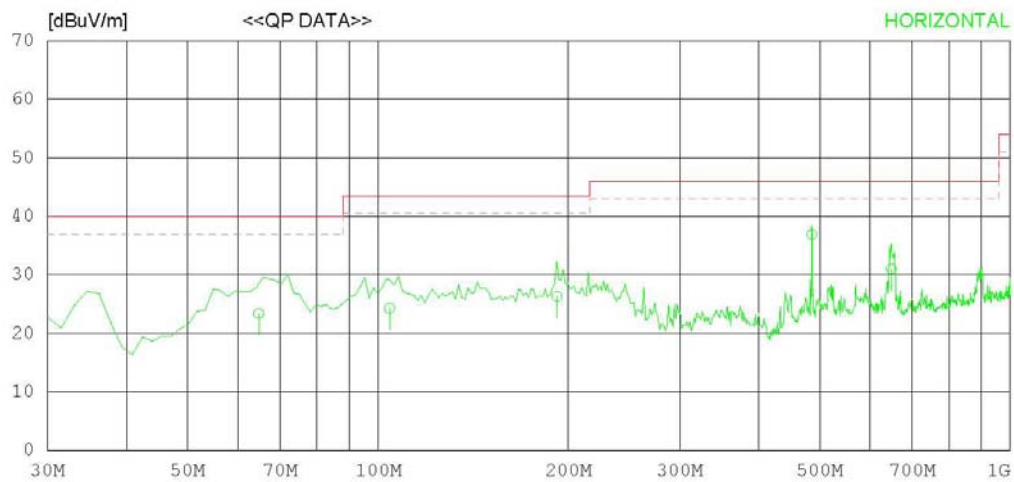
Date : 2012-03-01

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 34 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2012-03-01

Model Name : 37LT670H-UA
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 18 °C 34 % 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	64.700	39.0	5.9	1.2	22.7	23.4	40.0	16.6	298	358
2	191.961	37.9	9.7	2.0	23.3	26.3	43.5	17.2	100	358
3	104.236	34.7	10.9	1.5	22.8	24.3	43.5	19.2	228	234
4	485.463	40.8	17.4	3.4	24.7	36.9	46.0	9.1	301	0
5	648.686	32.7	18.8	4.0	24.5	31.0	46.0	15.0	301	0
----- Vertical -----										
6	35.600	34.7	16.4	0.9	23.1	28.9	40.0	11.1	100	153
7	64.500	41.2	5.9	1.2	22.7	25.6	40.0	14.4	100	22
8	191.667	38.9	9.7	2.0	23.3	27.3	43.5	16.2	247	358
9	648.686	31.0	18.8	4.0	24.5	29.3	46.0	16.7	100	9

< USB MODE_1 GHz ~ 6 GHz_Peak >

RADIATED EMISSION

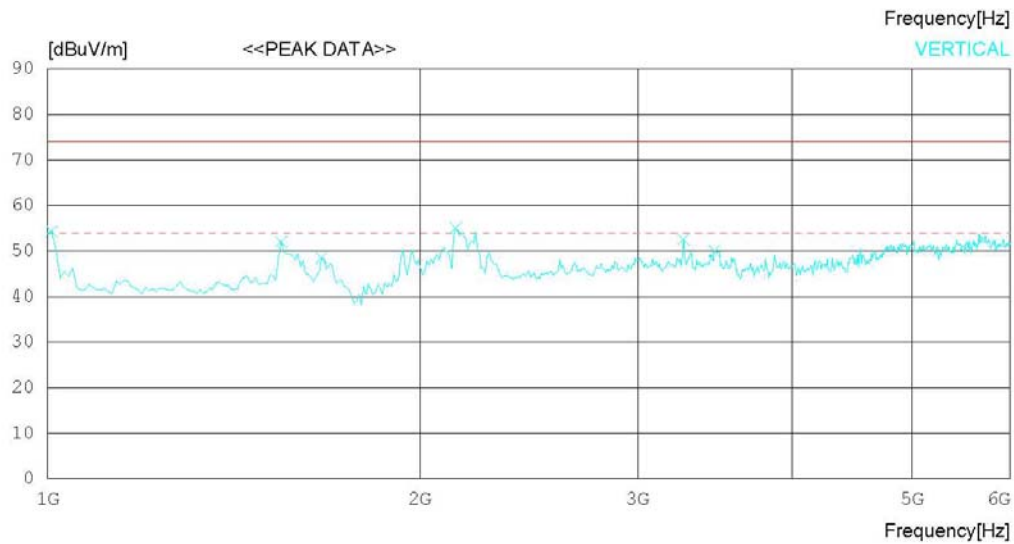
Date : 2012-03-02

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 'C 35 % 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 : 2012-03-02

Model Name : 37LT670H-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °C 35 % 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	1008.013	66.8	23.6	5.3	41.8	53.9	74.0	20.1	100	1
2	1048.077	62.0	23.8	5.4	41.8	49.4	74.0	24.6	100	1
3	1584.936	58.8	25.2	6.5	41.6	48.9	74.0	25.1	100	204
4	1665.064	59.5	25.2	6.8	41.7	49.8	74.0	24.2	100	139
5	1993.589	62.0	25.2	7.7	41.7	53.2	74.0	20.8	100	235
6	2137.822	61.9	25.8	7.8	41.7	53.8	74.0	20.2	100	219
7	2290.067	58.2	26.4	8.0	41.8	50.8	74.0	23.2	100	1
8	2979.180	56.2	28.8	9.2	41.9	52.3	74.0	21.7	100	1
----- Vertical -----										
9	1008.013	67.2	23.6	5.3	41.8	54.3	74.0	19.7	100	217
10	1544.872	62.2	25.1	6.4	41.6	52.1	74.0	21.9	100	171
11	1665.064	58.2	25.2	6.8	41.7	48.5	74.0	25.5	100	358
12	2137.822	63.2	25.8	7.8	41.7	55.1	74.0	18.9	100	204
13	3267.646	55.7	29.0	9.7	41.8	52.6	74.0	21.4	100	358
14	3459.957	52.8	29.1	10.1	42.0	50.0	74.0	24	100	358

< USB MODE_1 GHz ~ 6 GHz_Average >

RADIATED EMISSION

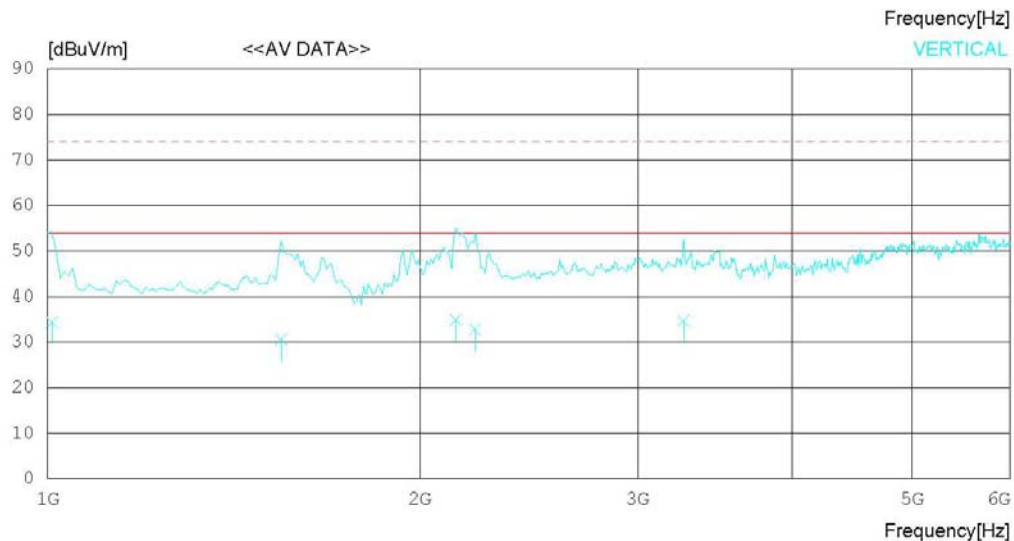
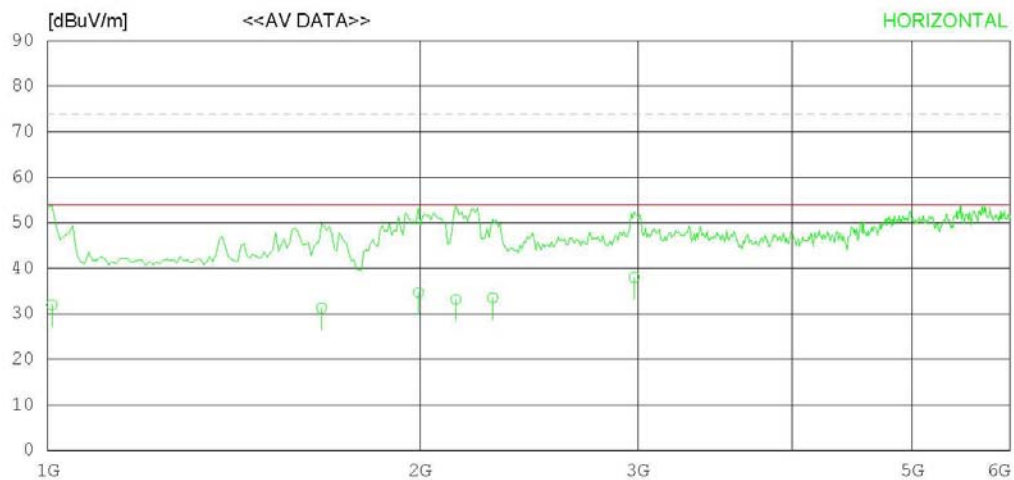
Date : 2012-03-02

Model Name : 37LT670H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 'C 35 % 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 : 2012-03-02

Model Name : 37LT670H-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °C 35 % R.H.
Test Condition : USB	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	1008.013	44.9	23.6	5.3	41.8	32.0	54.0	22.0	100	1
2	1665.064	41.0	25.2	6.8	41.7	31.3	54.0	22.7	100	139
3	1994.878	43.5	25.2	7.7	41.7	34.7	54.0	19.3	100	235
4	2138.098	41.2	25.8	7.8	41.7	33.1	54.0	20.9	100	24
5	2290.067	40.9	26.4	8.0	41.8	33.5	54.0	20.5	100	45
6	2979.180	41.9	28.8	9.2	41.9	38.0	54.0	16.0	100	167
----- Vertical -----										
7	1008.013	47.3	23.6	5.3	41.8	34.4	54.0	19.6	100	217
8	1544.872	40.7	25.1	6.4	41.6	30.6	54.0	23.4	100	171
9	2137.822	43.0	25.8	7.8	41.7	34.9	54.0	19.1	100	204
10	2216.985	40.5	26.1	7.9	41.7	32.8	54.0	21.2	100	358
11	3267.646	37.8	29.0	9.7	41.8	34.7	54.0	19.3	100	358

Appendix 1

List of Test and Measurement Instruments

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐ SPECTRUM ANALYZER	8591E	H/P	3649A05889	2011.03.07	2012.03.07
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2011.07.02	2012.07.02
☐ LISN	KNW-407	KYORITSU	8-317-8	2012.01.09	2013.01.09
☐ LISN	KNW-242	KYORITSU	8-654-15	2011.07.01	2012.07.01
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2011.03.08	2012.03.08
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2011.09.30	2012.09.30
☒ LISN	LISN1600	TTI	197204	2011.07.02	2012.07.02
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2012.01.09	2013.01.09
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2010.07.14	2012.07.14
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2010.04.13	2012.04.13
☒ AMPLIFIER	8447E	H/P	2945A02865	2012.01.09	2013.01.09
☒ AMPLIFIER	MLA-00108-B02-36	TSJ	1518831	2012.01.09	2013.01.09
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2011.07.01	2012.07.01
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2011.07.01	2012.07.01
☐ BILOG ANTENNA	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2011.03.08	2012.03.08
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2010.11.29	2012.11.29
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2010.07.07	2012.07.07
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2010.12.21	2012.12.21
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2010.11.29	2012.11.29
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2011.03.07	2012.03.07