

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 42LT777H-UA
Order No. : DEMC1303-00890
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 : (18 ~ 20) °C,
Humidity : (37 ~ 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.	42LT777H-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ42LT777HUA
Type of Sample Tested	Pre-Production
High Frequency	800 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.0 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	18 20	37 39

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.16433	N	60.2	Quasi-Peak	65.2	5.0

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
99.952	H	39.0	Quasi-Peak	43.5	4.5

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

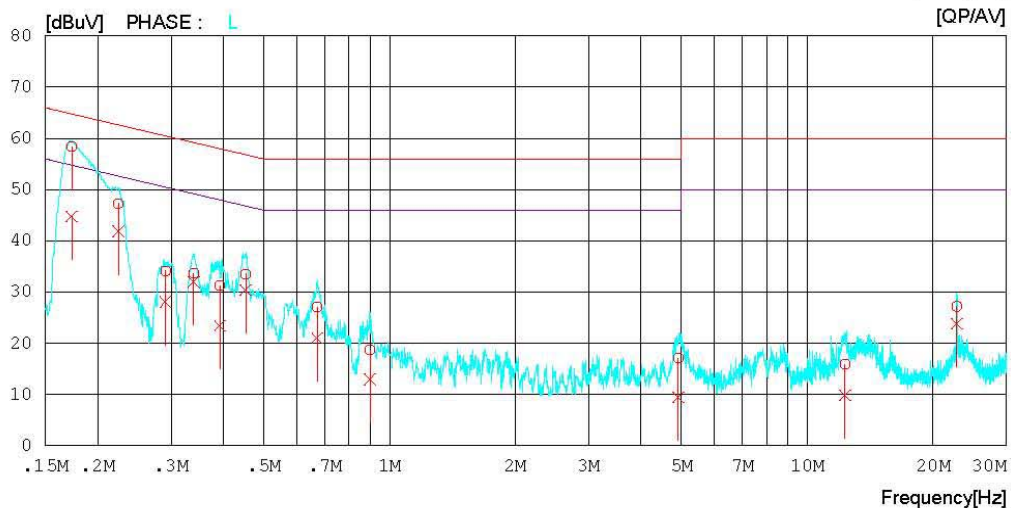
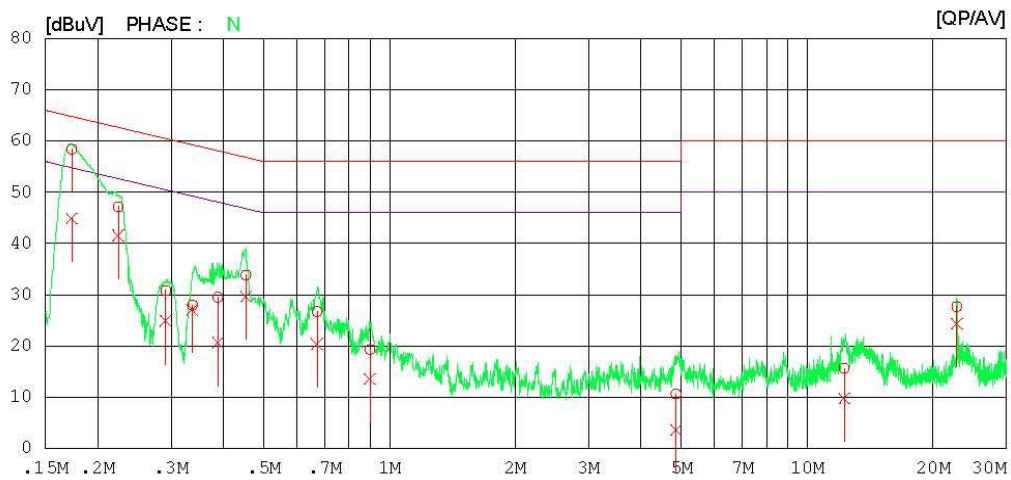
Digital EMC
Date : 2013-03-12

Model No. : 42LT777H-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. : 42LT777H-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	0.17364	56.9	43.4	1.5	58.4	44.9	64.8	54.8	6.4	9.9	N
2	0.22415	46.1	40.5	1.1	47.2	41.6	62.7	52.7	15.5	11.1	N
3	0.29135	29.9	23.9	0.9	30.8	24.8	60.5	50.5	29.7	25.7	N
4	0.33750	27.1	26.2	0.9	28.0	27.1	59.3	49.3	31.3	22.2	N
5	0.38874	28.7	19.8	0.8	29.5	20.6	58.1	48.1	28.6	27.5	N
6	0.45339	33.1	29.0	0.7	33.8	29.7	56.8	46.8	23.0	17.1	N
7	0.67056	26.1	19.8	0.6	26.7	20.4	56.0	46.0	29.3	25.6	N
8	0.89854	18.9	13.2	0.4	19.3	13.6	56.0	46.0	36.7	32.4	N
9	4.85400	10.4	3.4	0.2	10.6	3.6	56.0	46.0	45.4	42.4	N
10	12.27350	15.2	9.3	0.4	15.6	9.7	60.0	50.0	44.4	40.3	N
11	22.81350	27.2	23.8	0.5	27.7	24.3	60.0	50.0	32.3	25.7	N
12	0.17346	56.9	43.3	1.5	58.4	44.8	64.8	54.8	6.4	10.0	L
13	0.22428	46.2	40.8	1.1	47.3	41.9	62.7	52.7	15.4	10.8	L
14	0.29118	33.2	27.2	0.9	34.1	28.1	60.5	50.5	26.4	22.4	L
15	0.34000	32.8	31.1	0.9	33.7	32.0	59.2	49.2	25.5	17.2	L
16	0.39275	30.5	22.6	0.8	31.3	23.4	58.0	48.0	26.7	24.6	L
17	0.45264	32.8	29.7	0.7	33.5	30.4	56.8	46.8	23.3	16.4	L
18	0.67149	26.5	20.4	0.6	27.1	21.0	56.0	46.0	28.9	25.0	L
19	0.89853	18.3	12.6	0.4	18.7	13.0	56.0	46.0	37.3	33.0	L
20	4.91600	16.9	9.2	0.2	17.1	9.4	56.0	46.0	38.9	36.6	L
21	12.32450	15.5	9.5	0.4	15.9	9.9	60.0	50.0	44.1	40.1	L
22	22.81350	26.7	23.4	0.5	27.2	23.9	60.0	50.0	32.8	26.1	L

< HDMI MODE >



Results of Conducted Emission

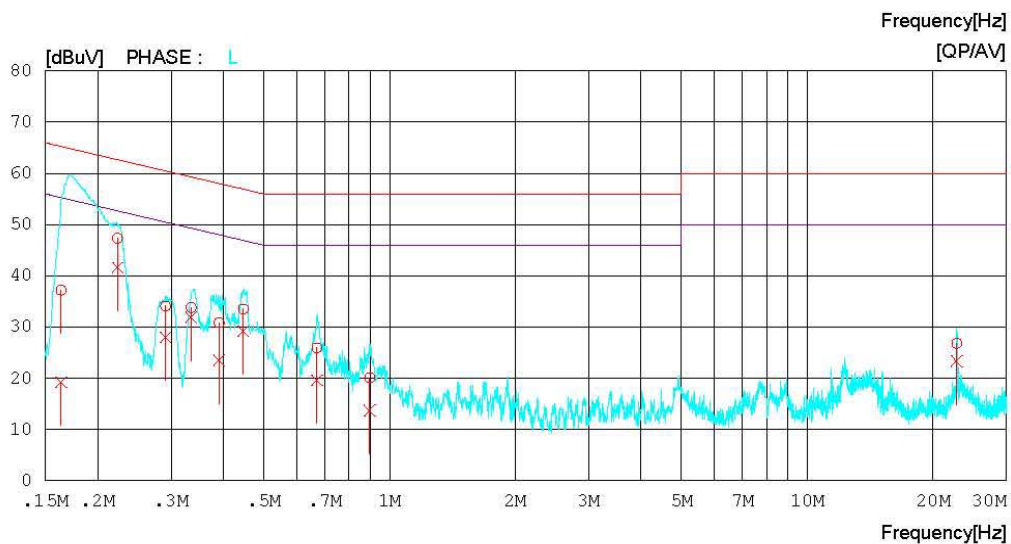
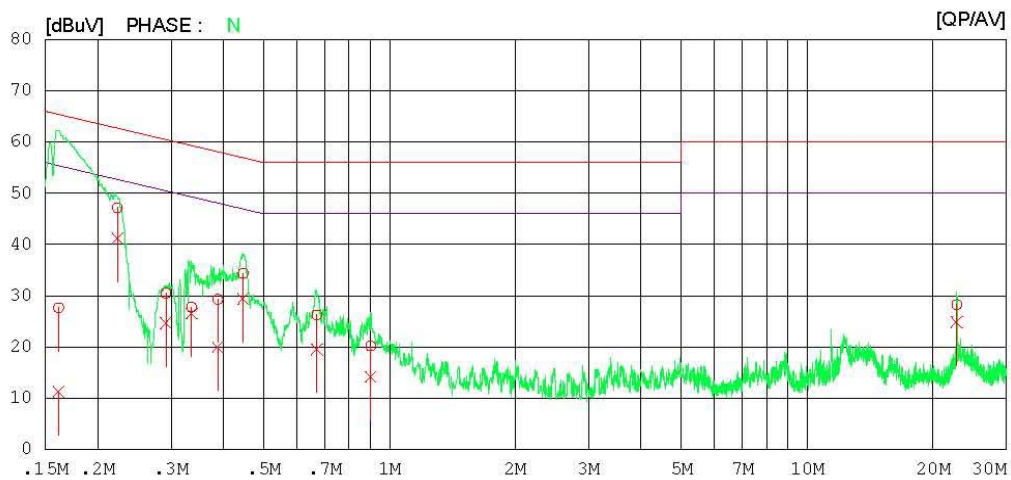
Digital EMC
Date : 2013-03-12

Model No. : 42LT777H-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. : 42LT777H-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	0.16146	25.9	9.6	1.7	27.6	11.3	65.4	55.4	37.8	44.1	N
2	0.22326	46.1	40.1	1.1	47.2	41.2	62.7	52.7	15.5	11.5	N
3	0.29170	29.6	23.8	0.9	30.5	24.7	60.5	50.5	30.0	25.8	N
4	0.33596	26.9	25.6	0.9	27.8	26.5	59.3	49.3	31.5	22.8	N
5	0.38868	28.5	19.1	0.8	29.3	19.9	58.1	48.1	28.8	28.2	N
6	0.44615	33.7	28.6	0.7	34.4	29.3	56.9	46.9	22.5	17.6	N
7	0.67001	25.6	18.9	0.6	26.2	19.5	56.0	46.0	29.8	26.5	N
8	0.90139	19.8	13.7	0.4	20.2	14.1	56.0	46.0	35.8	31.9	N
9	22.81400	27.8	24.3	0.5	28.3	24.8	60.0	50.0	31.7	25.2	N
10	0.16350	35.6	17.6	1.6	37.2	19.2	65.3	55.3	28.1	36.1	L
11	0.22350	46.2	40.5	1.1	47.3	41.6	62.7	52.7	15.4	11.1	L
12	0.29100	33.2	27.1	0.9	34.1	28.0	60.5	50.5	26.4	22.5	L
13	0.33520	32.9	31.0	0.9	33.8	31.9	59.3	49.3	25.5	17.4	L
14	0.39095	30.0	22.7	0.8	30.8	23.5	58.0	48.0	27.2	24.5	L
15	0.44650	32.8	28.5	0.7	33.5	29.2	56.9	46.9	23.4	17.7	L
16	0.67013	25.3	19.0	0.6	25.9	19.6	56.0	46.0	30.1	26.4	L
17	0.89661	19.7	13.3	0.4	20.1	13.7	56.0	46.0	35.9	32.3	L
18	22.81550	26.3	22.8	0.5	26.8	23.3	60.0	50.0	33.2	26.7	L

< USB MODE >



Results of Conducted Emission

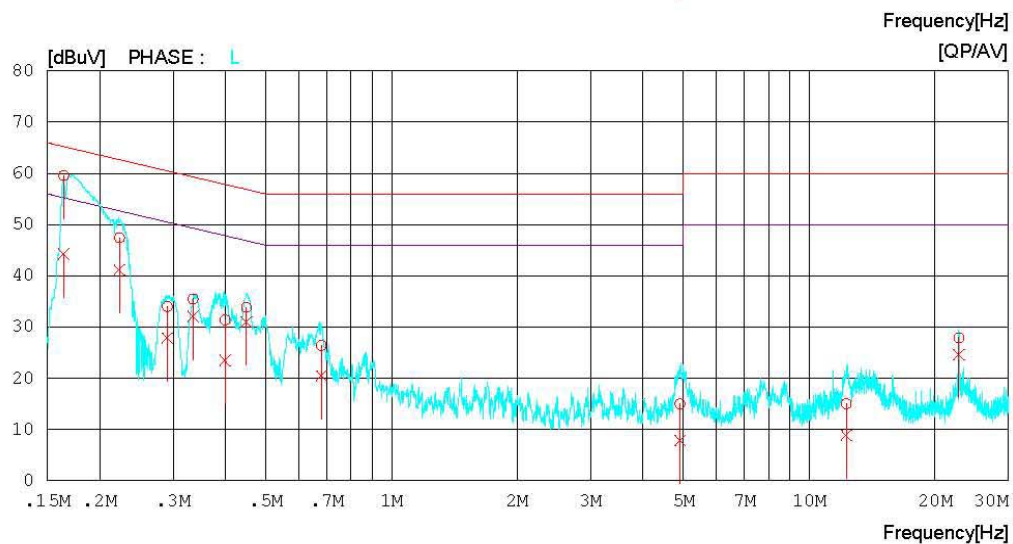
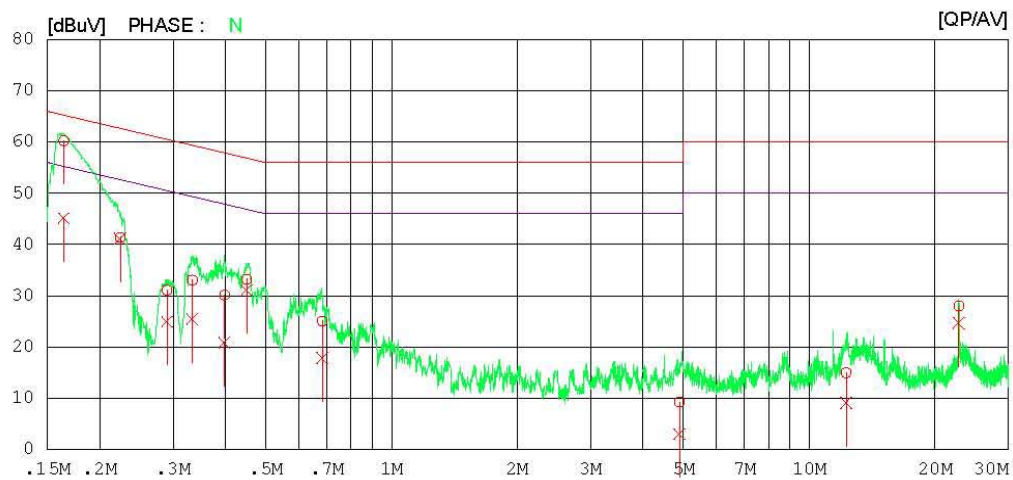
Digital EMC
Date : 2013-03-12

Model No. : 42LT777H-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. : 42LT777H-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	0.16433	58.6	43.5	1.6	60.2	45.1	65.2	55.2	5.0	10.1	N
2	0.22433	40.3	40.0	1.1	41.4	41.1	62.7	52.7	21.3	11.6	N
3	0.29023	30.2	24.0	0.9	31.1	24.9	60.5	50.5	29.4	25.6	N
4	0.33370	32.1	24.5	0.9	33.0	25.4	59.4	49.4	26.4	24.0	N
5	0.39835	29.3	20.0	0.8	30.1	20.8	57.9	47.9	27.8	27.1	N
6	0.45048	32.5	30.4	0.7	33.2	31.1	56.9	46.9	23.7	15.8	N
7	0.68298	24.4	17.2	0.6	25.0	17.8	56.0	46.0	31.0	28.2	N
8	4.89350	9.0	2.8	0.2	9.2	3.0	56.0	46.0	46.8	43.0	N
9	12.25850	14.5	8.7	0.4	14.9	9.1	60.0	50.0	45.1	40.9	N
10	22.81450	27.5	24.1	0.5	28.0	24.6	60.0	50.0	32.0	25.4	N
11	0.16415	58.0	42.7	1.6	59.6	44.3	65.3	55.3	5.7	11.0	L
12	0.22340	46.3	40.1	1.1	47.4	41.2	62.7	52.7	15.3	11.5	L
13	0.29058	33.1	27.0	0.9	34.0	27.9	60.5	50.5	26.5	22.6	L
14	0.33510	34.6	31.2	0.9	35.5	32.1	59.3	49.3	23.8	17.2	L
15	0.39963	30.6	22.7	0.8	31.4	23.5	57.9	47.9	26.5	24.4	L
16	0.44903	33.1	30.3	0.7	33.8	31.0	56.9	46.9	23.1	15.9	L
17	0.67949	25.8	19.9	0.6	26.4	20.5	56.0	46.0	29.6	25.5	L
18	4.90700	14.8	7.7	0.2	15.0	7.9	56.0	46.0	41.0	38.1	L
19	12.27700	14.6	8.5	0.4	15.0	8.9	60.0	50.0	45.0	41.1	L
20	22.81450	27.4	24.1	0.5	27.9	24.6	60.0	50.0	32.1	25.4	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

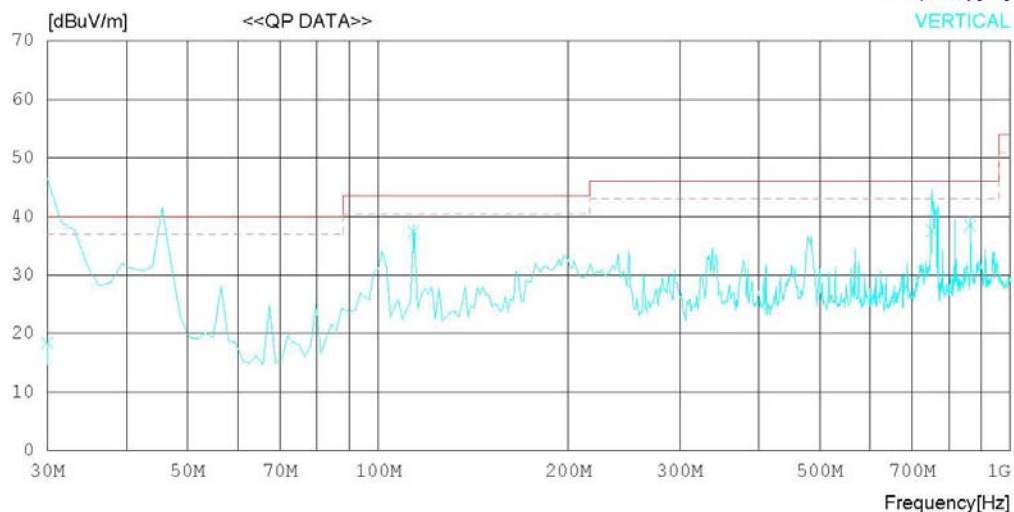
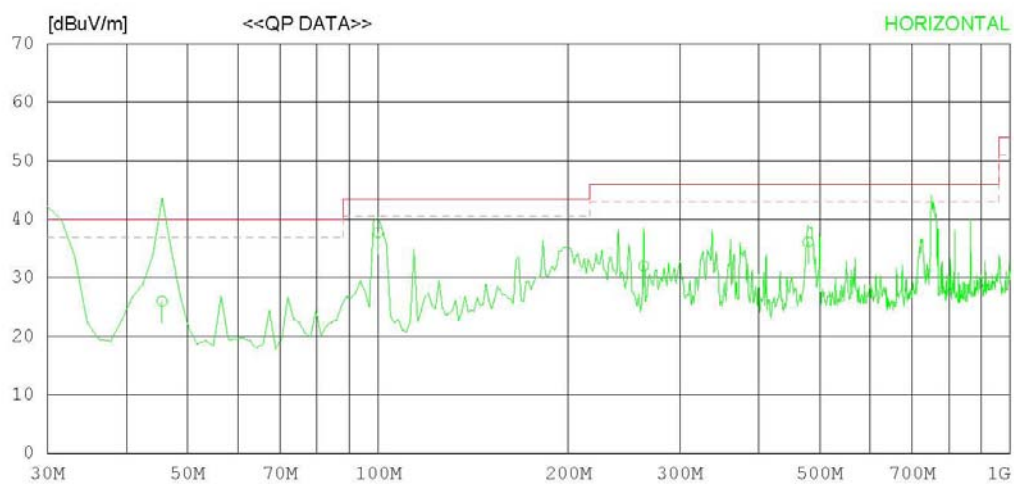
Date : 2013-03-11

Model Name : 42LT777H-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 : 42LT777H-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	45.545	35.9	13.3	1.1	24.3	26.0	40.0	14.0	400	46
2	99.952	49.7	10.7	1.4	24.1	37.7	43.5	5.8	293	1
3	263.173	40.1	13.0	2.6	23.7	32.0	46.0	14.0	100	82
4	479.245	38.3	17.1	3.8	23.1	36.1	46.0	9.9	210	358
----- Vertical -----										
5	30.000	23.5	17.9	0.8	23.8	18.4	40.0	21.6	209	358
6	113.942	48.7	11.3	1.5	24.1	37.4	43.5	6.1	100	1
7	752.837	37.3	19.3	4.6	23.6	37.6	46.0	8.4	100	1
8	864.762	36.2	20.5	4.9	23.2	38.4	46.0	7.6	100	1

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

RADIATED EMISSION

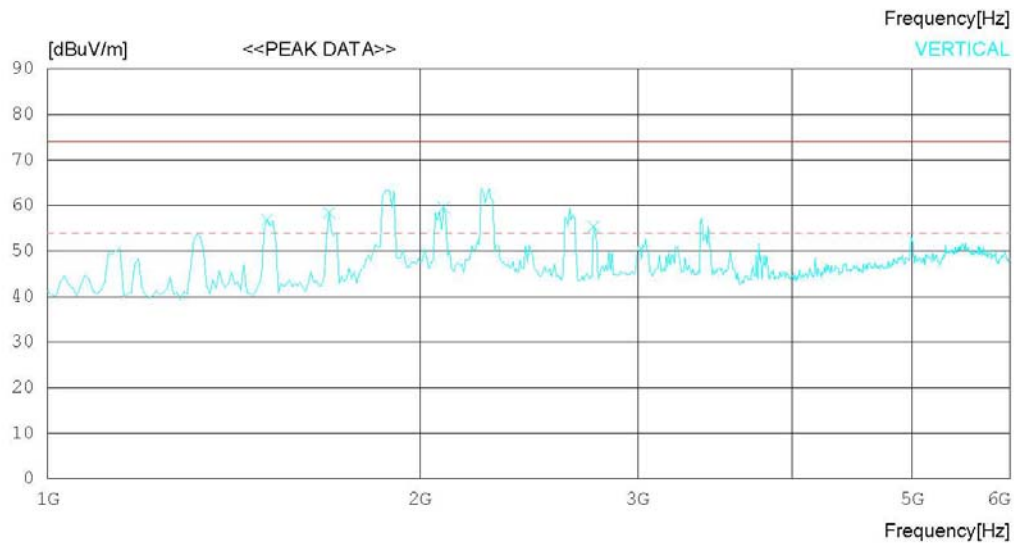
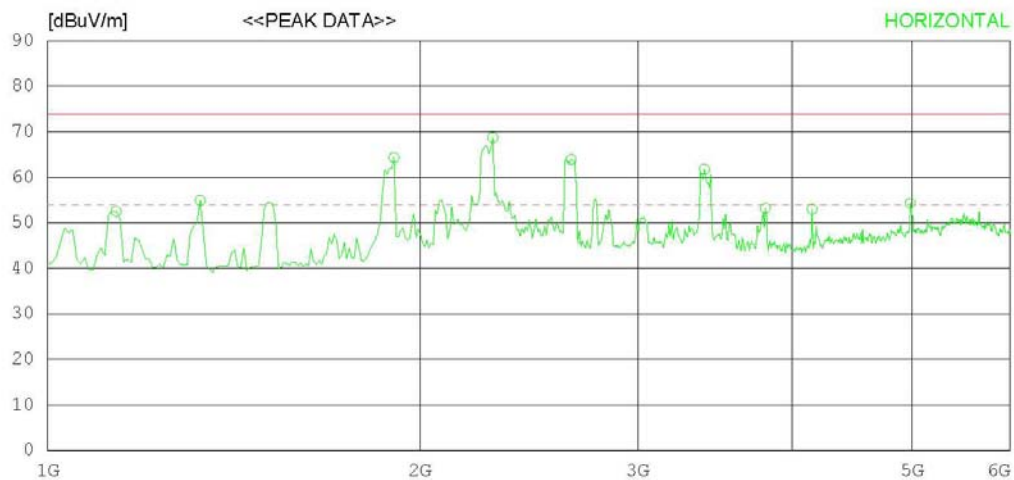
Date : 2013-03-13

Model Name : 42LT777H-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 : 42LT777H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 39 % 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	1136.218	63.5	24.1	3.5	38.6	52.5	74.0	21.5	100	358
2	1328.526	64.9	24.4	3.8	38.2	54.9	74.0	19.1	100	157
3	1905.448	72.8	24.6	4.6	37.7	64.3	74.0	9.7	100	358
4	2290.067	74.9	26.2	5.0	37.4	68.7	74.0	5.3	100	229
5	2650.650	67.9	27.9	5.4	37.3	63.9	74.0	10.1	100	222
6	3395.853	63.9	28.9	6.1	37.1	61.8	74.0	12.2	100	217
7	3804.513	53.7	29.7	6.5	36.7	53.2	74.0	20.8	100	358
8	4149.068	52.3	30.4	6.8	36.5	53.0	74.0	21	100	358
9	4982.388	50.7	32.4	7.9	36.7	54.3	74.0	19.7	100	358
----- Vertical -----										
10	1504.807	66.0	24.6	4.1	37.9	56.8	74.0	17.2	100	182
11	1689.102	67.3	24.6	4.3	37.8	58.4	74.0	15.6	100	214
12	2089.744	67.2	25.1	4.8	37.5	59.6	74.0	14.4	100	1
13	2762.831	58.9	28.3	5.5	37.3	55.4	74.0	18.6	100	1

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

RADIATED EMISSION

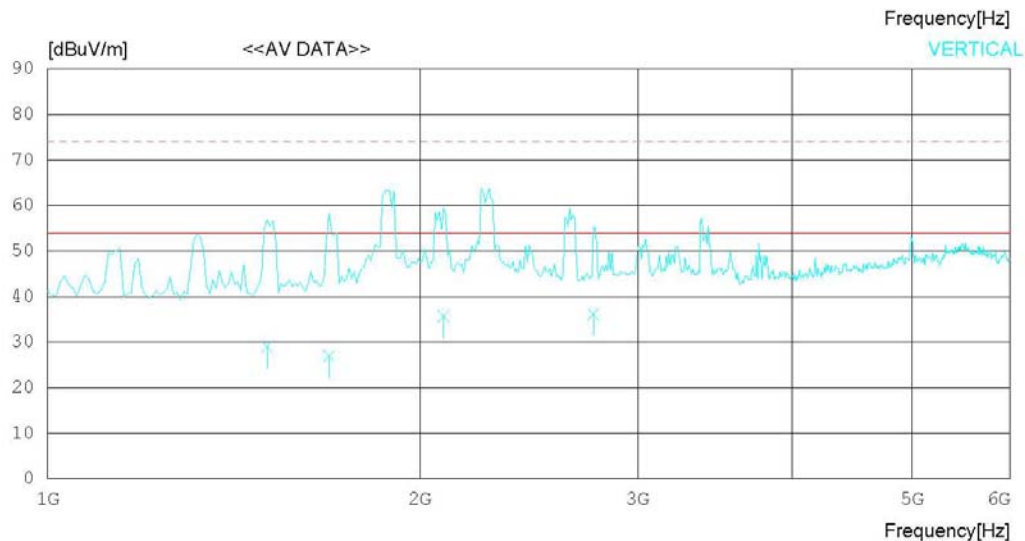
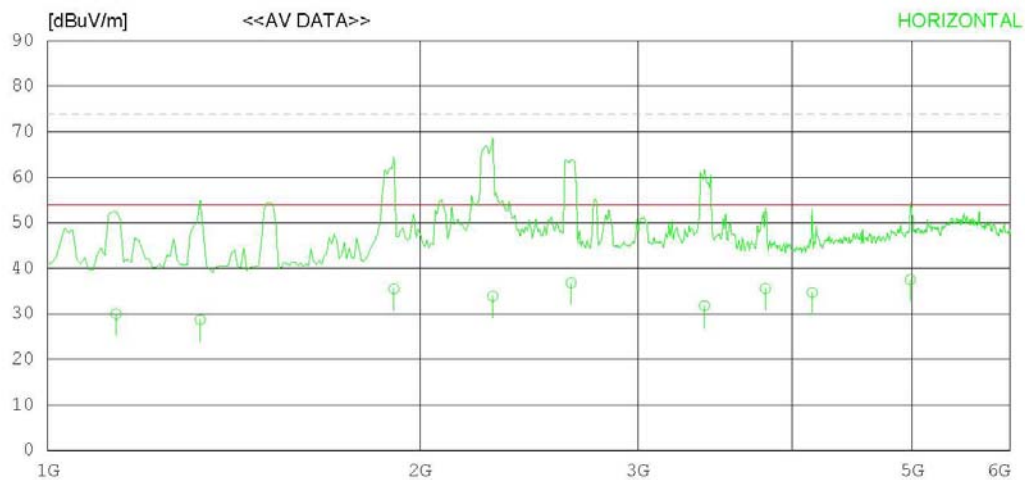
Date : 2013-03-13

Model Name : 42LT777H-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 : 42LT777H-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	1136.218	41.0	24.1	3.5	38.6	30.0	54.0	24.0	100	358
2	1328.526	38.7	24.4	3.8	38.2	28.7	54.0	25.3	100	157
3	1905.448	44.0	24.6	4.6	37.7	35.5	54.0	18.5	100	358
4	2290.067	40.1	26.2	5.0	37.4	33.9	54.0	20.1	100	229
5	2650.650	40.8	27.9	5.4	37.3	36.8	54.0	17.2	100	222
6	3395.853	33.9	28.9	6.1	37.1	31.8	54.0	22.2	100	217
7	3804.513	36.1	29.7	6.5	36.7	35.6	54.0	18.4	100	358
8	4149.068	34.0	30.4	6.8	36.5	34.7	54.0	19.3	100	358
9	4982.388	33.9	32.4	7.9	36.7	37.5	54.0	16.5	100	358
----- Vertical -----										
10	1504.807	38.2	24.6	4.1	37.9	29.0	54.0	25.0	100	182
11	1689.102	35.9	24.6	4.3	37.8	27.0	54.0	27.0	100	214
12	2089.744	43.3	25.1	4.8	37.5	35.7	54.0	18.3	100	1
13	2762.831	39.6	28.3	5.5	37.3	36.1	54.0	17.9	100	1

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

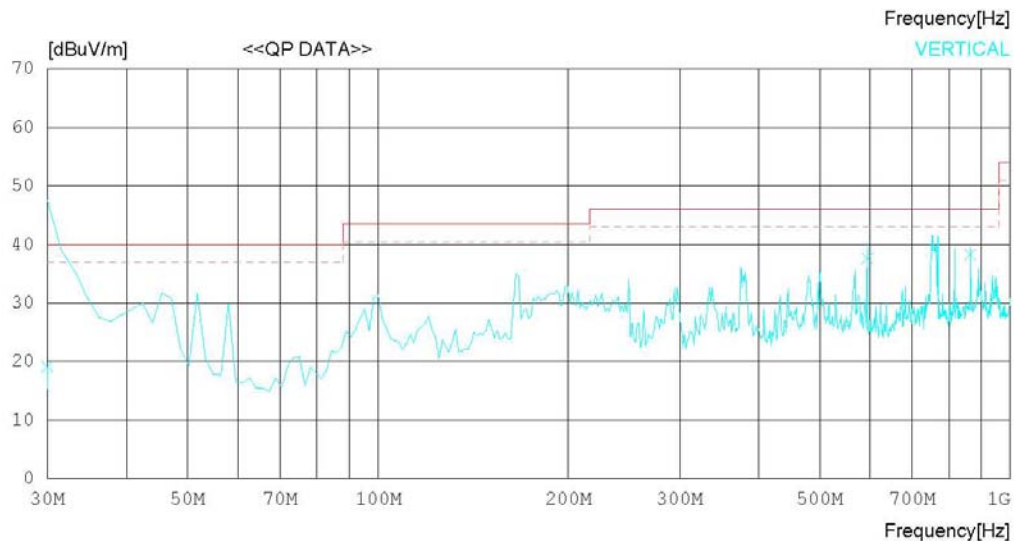
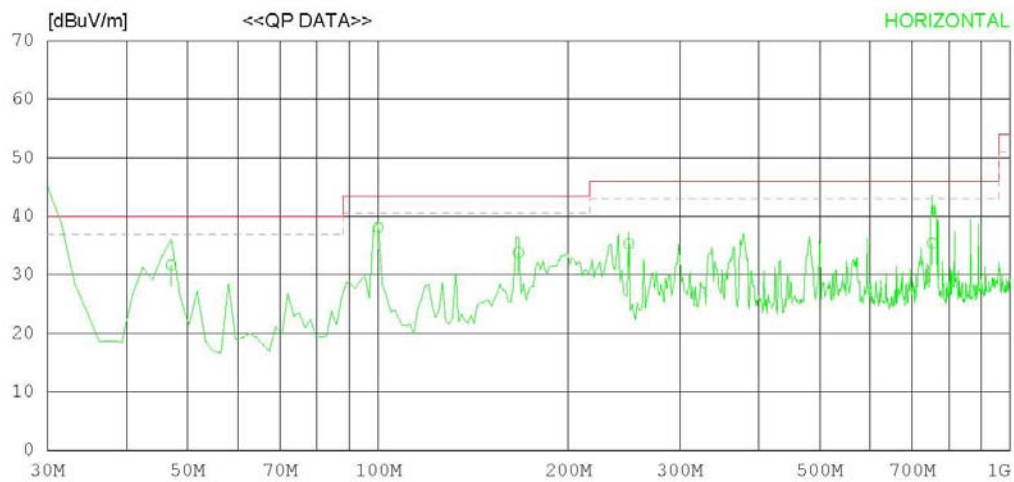
Date : 2013-03-11

Model Name : 42LT777H-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 : 42LT777H-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	47.099	43.3	11.5	1.2	24.3	31.7	40.0	8.3	381	358
2	99.952	50.1	10.7	1.4	24.1	38.1	43.5	5.4	312	358
3	166.795	46.0	10.0	1.9	24.1	33.8	43.5	9.7	215	6
4	249.183	43.8	12.7	2.6	23.8	35.3	46.0	10.7	119	1
5	752.837	35.1	19.3	4.6	23.6	35.4	46.0	10.6	100	183
----- Vertical -----										
6	30.000	24.2	17.9	0.8	23.8	19.1	40.0	20.9	163	348
7	594.278	38.3	18.6	4.1	23.4	37.6	46.0	8.4	164	1
8	864.762	36.1	20.5	4.9	23.2	38.3	46.0	7.7	105	1

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

RADIATED EMISSION

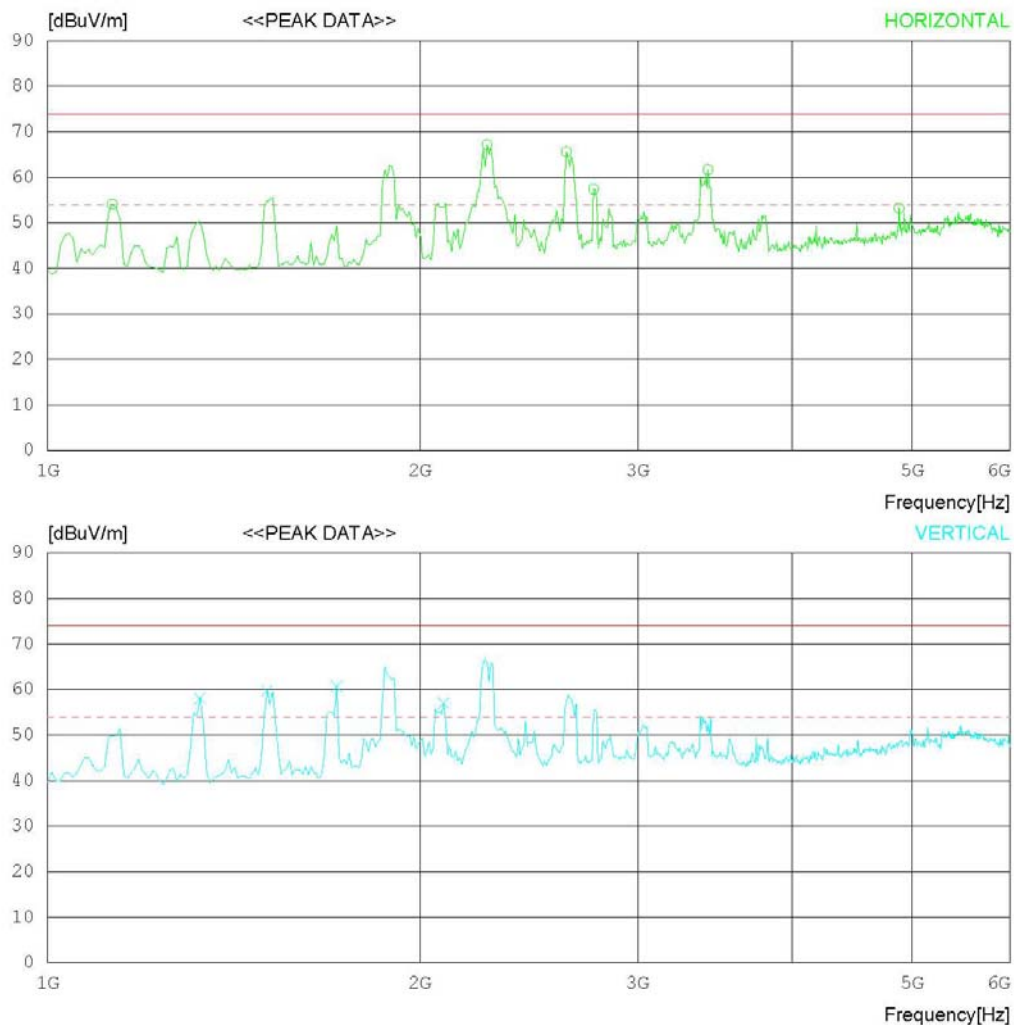
Date : 2013-03-13

Model Name : 42LT777H-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 : 42LT777H-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	1128.205	65.1	24.1	3.5	38.6	54.1	74.0	19.9	100	134
2	2266.029	73.5	26.1	5.0	37.4	67.2	74.0	6.8	100	235
3	2626.611	69.8	27.8	5.3	37.3	65.6	74.0	8.4	100	1
4	2762.831	60.9	28.3	5.5	37.3	57.4	74.0	16.6	100	243
5	3419.892	63.8	28.9	6.1	37.1	61.7	74.0	12.3	100	1
6	4878.223	50.1	32.1	7.7	36.7	53.2	74.0	20.8	100	1
----- Vertical -----										
7	1328.526	68.1	24.4	3.8	38.2	58.1	74.0	15.9	100	358
8	1504.807	68.9	24.6	4.1	37.9	59.7	74.0	14.3	100	358
9	1713.141	69.6	24.6	4.3	37.8	60.7	74.0	13.3	100	358
10	2089.744	64.6	25.1	4.8	37.5	57.0	74.0	17	100	358

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

RADIATED EMISSION

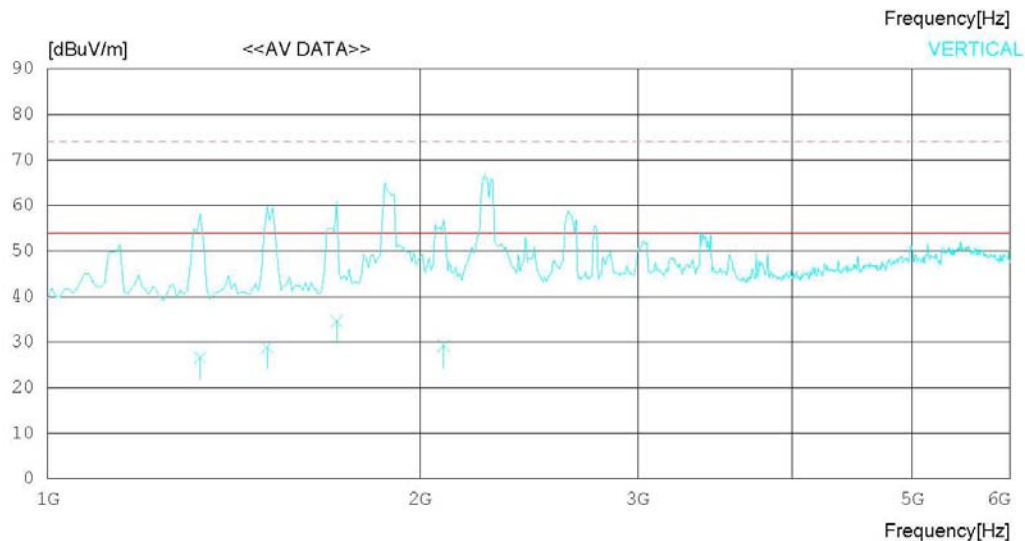
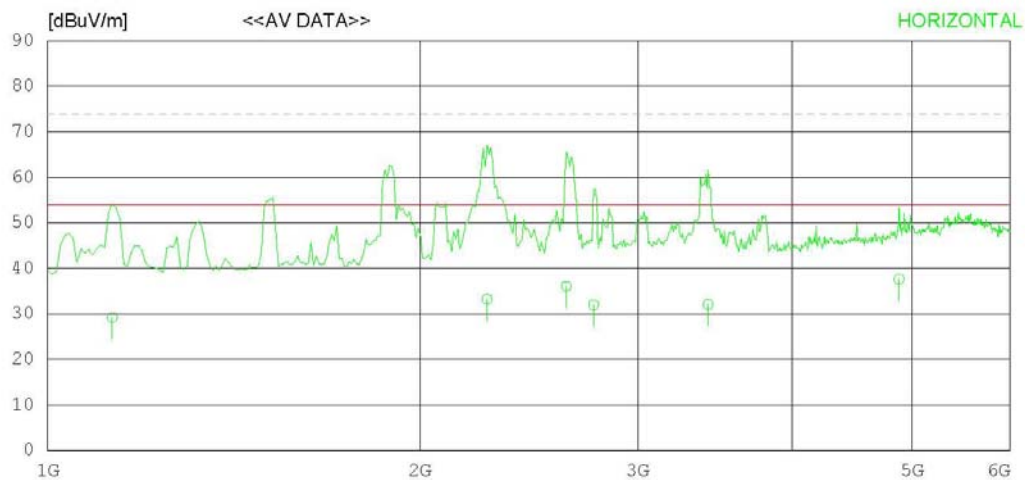
Date : 2013-03-13

Model Name : 42LT777H-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 : 42LT777H-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	1128.205	40.2	24.1	3.5	38.6	29.2	54.0	24.8	100	134
2	2266.029	39.5	26.1	5.0	37.4	33.2	54.0	20.8	100	235
3	2626.611	40.3	27.8	5.3	37.3	36.1	54.0	17.9	100	1
4	2762.831	35.5	28.3	5.5	37.3	32.0	54.0	22.0	100	243
5	3419.892	34.2	28.9	6.1	37.1	32.1	54.0	21.9	100	1
6	4878.223	34.5	32.1	7.7	36.7	37.6	54.0	16.4	100	1
----- Vertical -----										
7	1328.526	36.7	24.4	3.8	38.2	26.7	54.0	27.3	100	358
8	1504.807	38.1	24.6	4.1	37.9	28.9	54.0	25.1	100	358
9	1713.141	43.5	24.6	4.3	37.8	34.6	54.0	19.4	100	358
10	2089.744	36.8	25.1	4.8	37.5	29.2	54.0	24.8	100	358

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

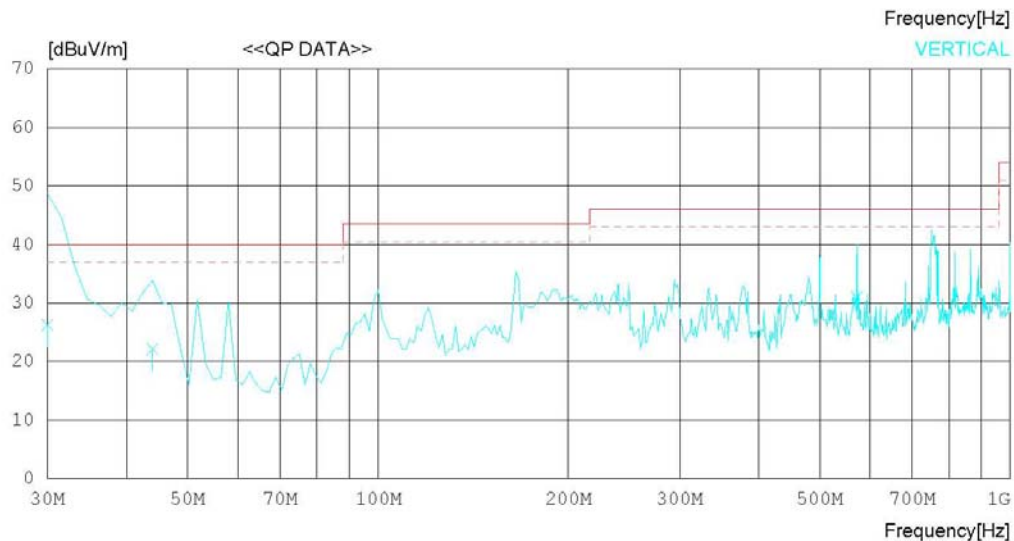
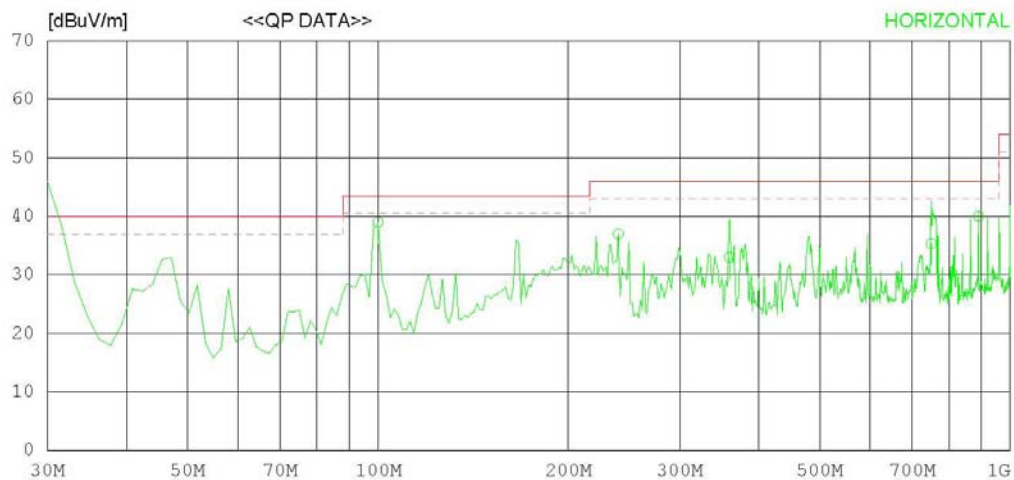
Date : 2013-03-11

Model Name : 42LT777H-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 : 42LT777H-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	99.952	51.0	10.7	1.4	24.1	39.0	43.5	4.5	300	358
2	239.856	46.2	12.1	2.5	23.8	37.0	46.0	9.0	100	154
3	359.551	38.1	15.1	3.4	23.6	33.0	46.0	13.0	100	358
4	749.728	35.0	19.3	4.6	23.6	35.3	46.0	10.7	322	0
5	891.188	37.2	20.7	5.2	23.1	40.0	46.0	6.0	100	103
----- Vertical -----										
6	30.000	31.4	17.9	0.8	23.8	26.3	40.0	13.7	100	20
7	43.990	31.6	13.7	1.1	24.2	22.2	40.0	17.8	100	1
8	572.515	32.1	18.3	4.0	23.3	31.1	46.0	14.9	100	199

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

RADIATED EMISSION

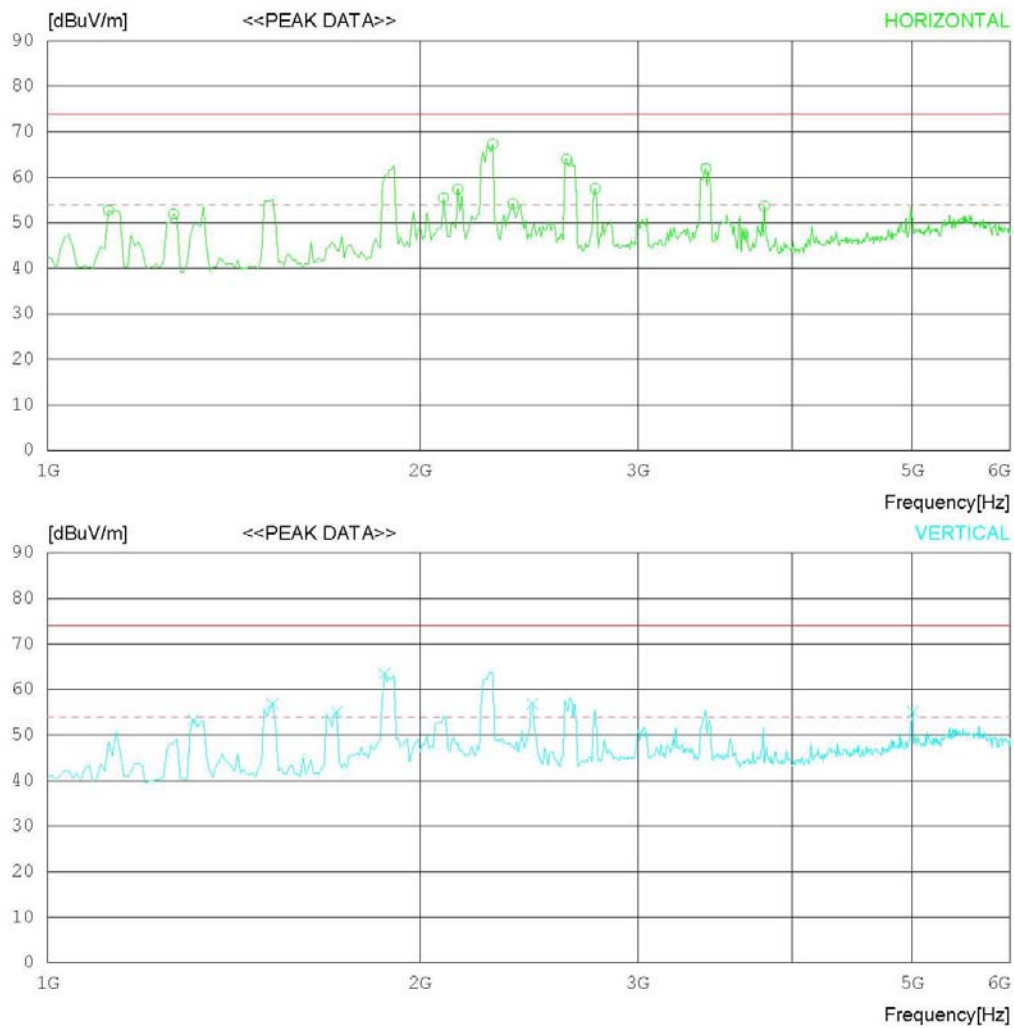
Date : 2013-03-13

Model Name : 42LT777H-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 : 42LT777H-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)

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	1120.192	63.8	24.1	3.5	38.6	52.8	74.0	21.2	100	129
2	1264.423	62.2	24.3	3.7	38.3	51.9	74.0	22.1	100	358
3	2089.744	63.1	25.1	4.8	37.5	55.5	74.0	18.5	100	358
4	2145.834	64.6	25.4	4.9	37.5	57.4	74.0	16.6	100	179
5	2290.067	73.5	26.2	5.0	37.4	67.3	74.0	6.7	100	358
6	2378.210	59.8	26.7	5.1	37.4	54.2	74.0	19.8	100	196
7	2626.611	68.2	27.8	5.3	37.3	64.0	74.0	10	100	221
8	2770.844	61.0	28.3	5.5	37.3	57.5	74.0	16.5	100	244
9	3403.866	64.1	28.9	6.1	37.1	62.0	74.0	12	100	223
10	3796.500	54.3	29.6	6.5	36.7	53.7	74.0	20.3	100	358
----- Vertical -----										
11	1312.500	63.3	24.4	3.8	38.2	53.3	74.0	20.7	100	236
12	1520.833	66.1	24.6	4.1	37.9	56.9	74.0	17.1	100	1
13	1713.141	63.9	24.6	4.3	37.8	55.0	74.0	19	100	203
14	1873.397	72.0	24.6	4.6	37.7	63.5	74.0	10.5	100	195
15	2466.352	61.7	27.3	5.2	37.3	56.9	74.0	17.1	100	1
16	5006.426	51.4	32.5	7.9	36.7	55.1	74.0	18.9	100	143

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

RADIATED EMISSION

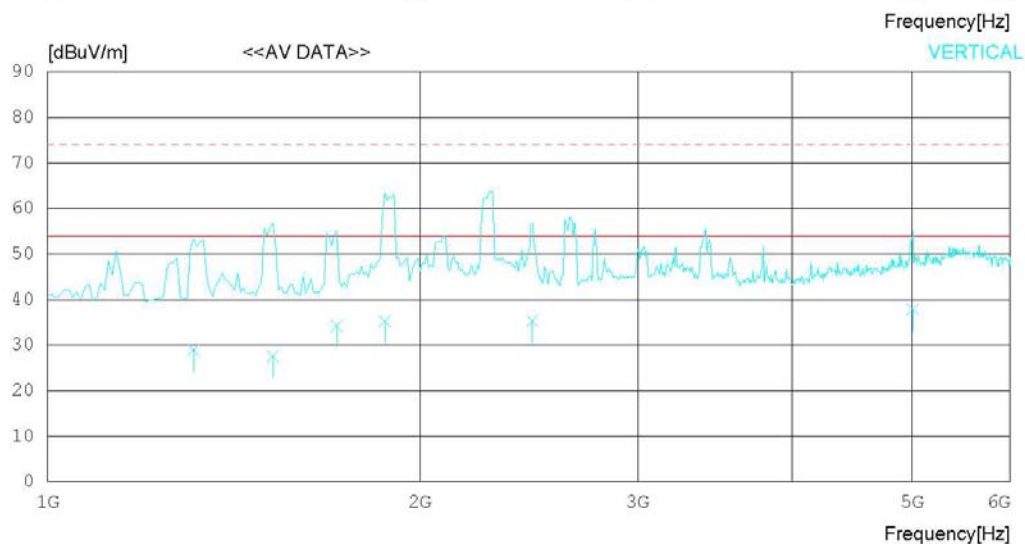
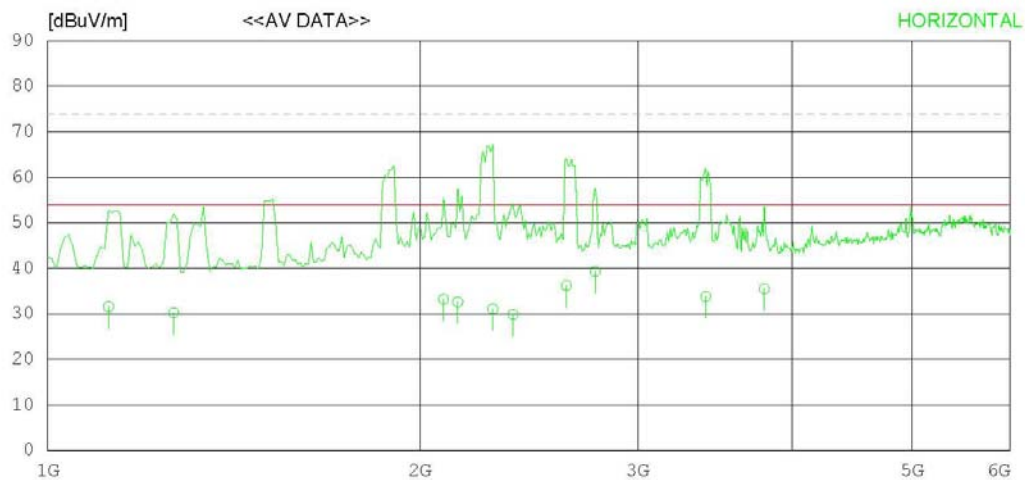
Date : 2013-03-13

Model Name : 42LT777H-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 : 42LT777H-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	1120.192	42.6	24.1	3.5	38.6	31.6	54.0	22.4	100	129
2	1264.423	40.6	24.3	3.7	38.3	30.3	54.0	23.7	100	358
3	2089.744	40.8	25.1	4.8	37.5	33.2	54.0	20.8	100	358
4	2145.834	39.8	25.4	4.9	37.5	32.6	54.0	21.4	100	179
5	2290.067	37.3	26.2	5.0	37.4	31.1	54.0	22.9	100	358
6	2378.210	35.5	26.7	5.1	37.4	29.9	54.0	24.1	100	196
7	2626.611	40.4	27.8	5.3	37.3	36.2	54.0	17.8	100	221
8	2770.844	42.8	28.3	5.5	37.3	39.3	54.0	14.7	100	244
9	3403.866	35.9	28.9	6.1	37.1	33.8	54.0	20.2	100	223
10	3796.500	36.1	29.6	6.5	36.7	35.5	54.0	18.5	100	358
----- Vertical -----										
11	1312.500	38.9	24.4	3.8	38.2	28.9	54.0	25.1	100	236
12	1520.833	36.8	24.6	4.1	37.9	27.6	54.0	26.4	100	1
13	1713.141	43.1	24.6	4.3	37.8	34.2	54.0	19.8	100	203
14	1873.397	43.8	24.6	4.6	37.7	35.3	54.0	18.7	100	195
15	2466.352	40.1	27.3	5.2	37.3	35.3	54.0	18.7	100	1
16	5006.426	34.2	32.5	7.9	36.7	37.9	54.0	16.1	100	143

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