

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 42LA6650-UA
Order No. : DEMC1301-00412
Date of receipt : 2013-01-30
Test duration : 2013-02-01 ~ 2013-02-06
Use of report : FCC CoC Marking
Date of Issue : 2013-02-14

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 ~ 21) °C,
Humidity : (38 ~ 40) % 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.

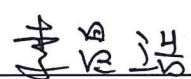
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Tested by:

Reviewed by:



Manager
HyunSuk Ko



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.	42LA6650-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ42LA6650UA
Type of Sample Tested	Pre-Production
High Frequency	790 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.1 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

HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1360 x 768	47.712	60.015
1152 x 864	54.348	60.053
1280 x 1024	63.981	60.02
1920 x 1080	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	02-01	21	40
Radiated Disturbance	02-06	20	38

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.56899	N	32.5	Average	46.0	13.5

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
783.418	H	42.2	Quasi-Peak	46.0	3.8

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

- HDMI MODE : 1920x1080 Resolution (Worst case)
- USB MODE : USB record file play

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTRO220	G3RZKBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				PS2	1.8	Not use	Shield		
				PS2	1.8	Not use	Shield		
				USB	1.5	Not use	Shield		
				LAN	1.6	Not use	Non-shield		
				STEREO	1.5	Not use	Non-shield		
KEYBOARD	SKG-210PB	TAKSB2450 3Y	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Not use	Shield	Plastic	DOC
MOUSE	M-SBF96	LZ948B105 W1	LOGITECH INC.	PS/2	1.8	Not use	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS.	POWER COMPONENT	1.8 1.6	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	Sandisk Cruzer Z37 4G	N/A	Sandisk	USB	-	-	-	Plastic	DOC
PRINTER	SRP-770	SRP770080 60035	Bixolon	POWER USB	1.5 1.6	Not use Not use	Non-shield Shield	Plastic	DOC
Remote Control	AN-MR400G	N/A	OHSUNG ELECTRONIC	-	-	-	-	-	-
Headset	COV903	N/A	COSY	STEREO	1.5	Not use	Non-shield	Plastic	DOC

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

< HDMI MODE >



Results of Conducted Emission

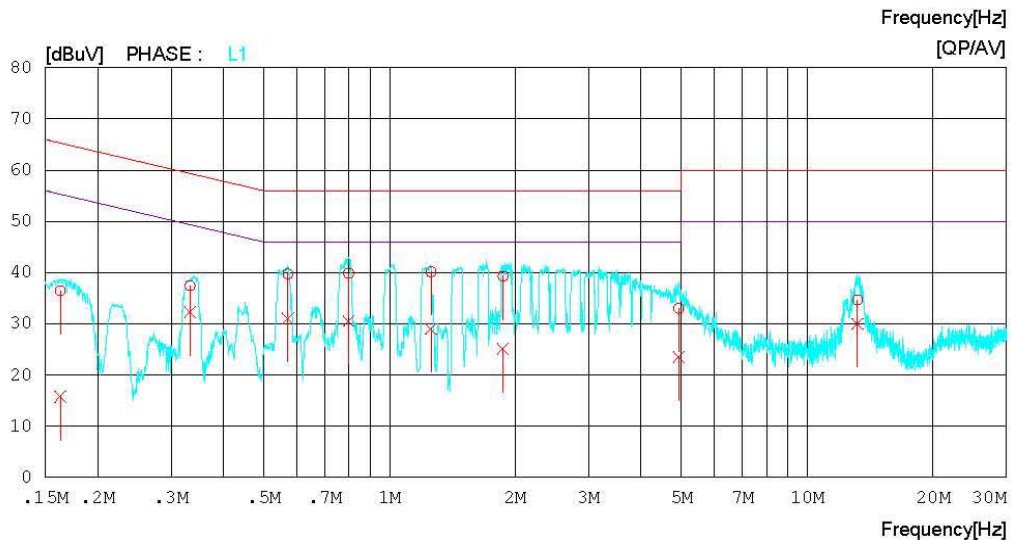
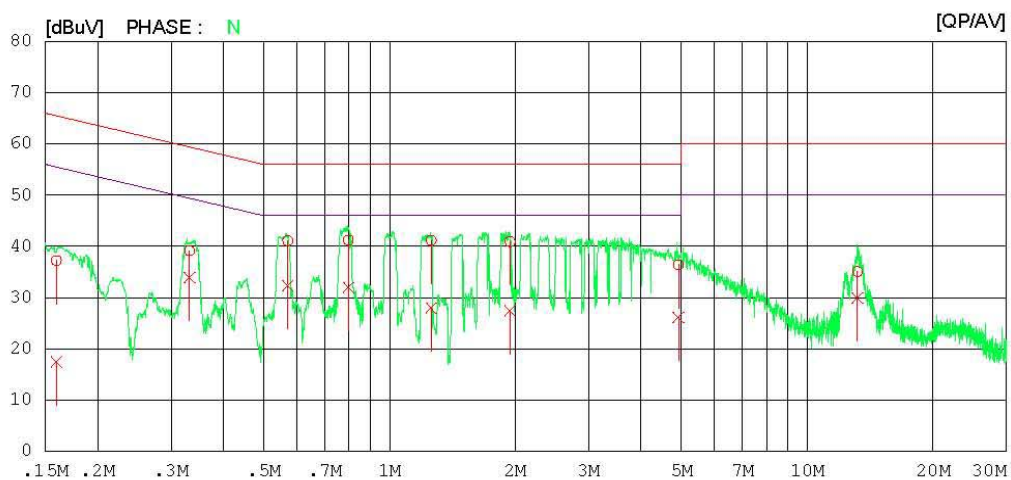
Digital EMC
Date : 2013-02-01

Model No. : 42LA6650-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-01

Model No. : 42LA6650-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % 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	0.15949	37.0	17.2	0.2	37.2	17.4	65.5	55.5	28.3	38.1	N
2	0.33208	38.9	33.7	0.2	39.1	33.9	59.4	49.4	20.3	15.5	N
3	0.57064	40.9	32.1	0.2	41.1	32.3	56.0	46.0	14.9	13.7	N
4	0.79733	41.0	31.7	0.2	41.2	31.9	56.0	46.0	14.8	14.1	N
5	1.25950	40.9	27.6	0.3	41.2	27.9	56.0	46.0	14.8	18.1	N
6	1.94400	40.6	27.1	0.3	40.9	27.4	56.0	46.0	15.1	18.6	N
7	4.92150	36.0	25.7	0.4	36.4	26.1	56.0	46.0	19.6	19.9	N
8	13.20000	34.4	29.2	0.7	35.1	29.9	60.0	50.0	24.9	20.1	N
9	0.16286	36.2	15.6	0.2	36.4	15.8	65.3	55.3	28.9	39.5	L1
10	0.33313	37.3	32.2	0.2	37.5	32.4	59.4	49.4	21.9	17.0	L1
11	0.57163	39.6	30.8	0.2	39.8	31.0	56.0	46.0	16.2	15.0	L1
12	0.79833	39.7	30.4	0.2	39.9	30.6	56.0	46.0	16.1	15.4	L1
13	1.25750	39.8	28.7	0.3	40.1	29.0	56.0	46.0	15.9	17.0	L1
14	1.87100	39.0	24.8	0.3	39.3	25.1	56.0	46.0	16.7	20.9	L1
15	4.92600	32.6	23.2	0.4	33.0	23.6	56.0	46.0	23.0	22.4	L1
16	13.19950	34.0	29.3	0.7	34.7	30.0	60.0	50.0	25.3	20.0	L1

< USB MODE >



Results of Conducted Emission

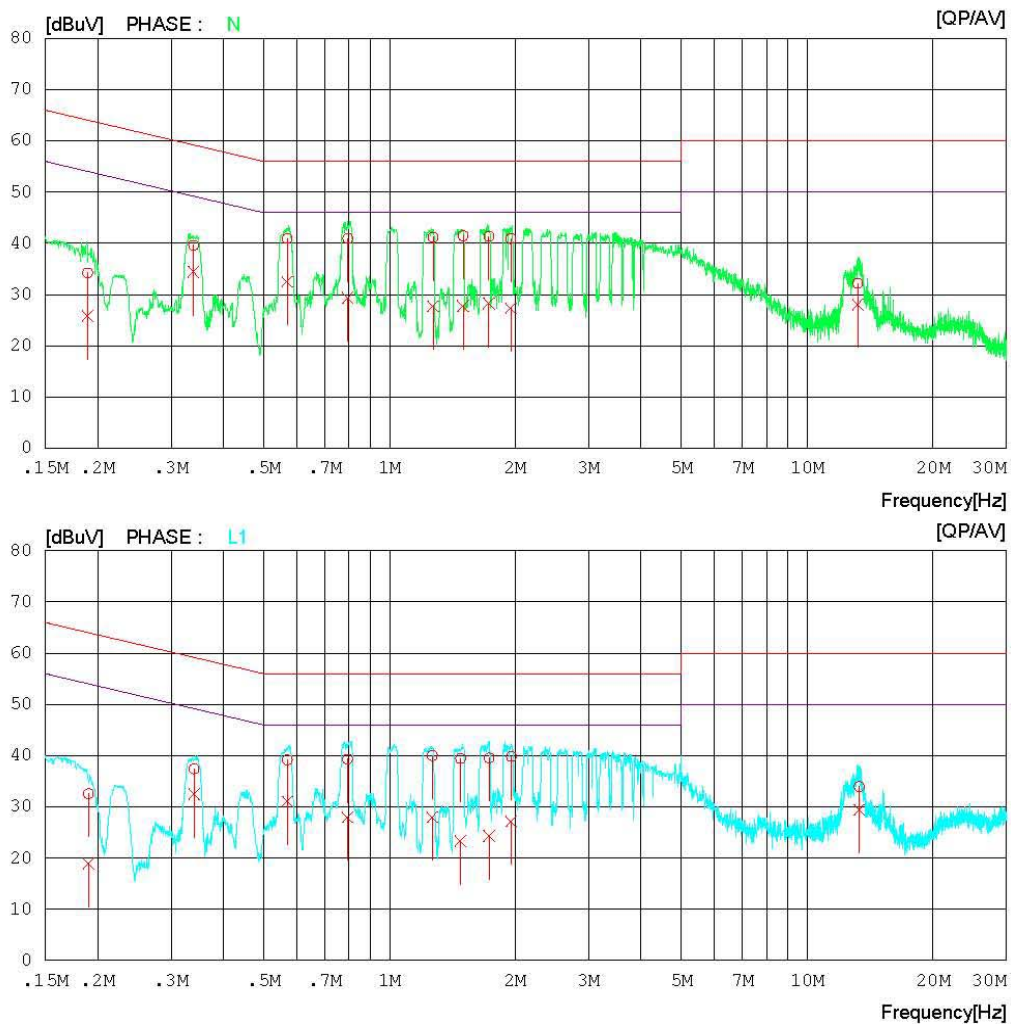
Digital EMC
Date : 2013-02-01

Model No. : 42LA6650-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-01

Model No. : 42LA6650-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % 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	0.18945	34.0	25.6	0.2	34.2	25.8	64.1	54.1	29.9	28.3	N
2	0.33953	39.4	34.2	0.2	39.6	34.4	59.2	49.2	19.6	14.8	N
3	0.56899	40.7	32.3	0.2	40.9	32.5	56.0	46.0	15.1	13.5	N
4	0.79488	40.8	29.1	0.2	41.0	29.3	56.0	46.0	15.0	16.7	N
5	1.27100	40.9	27.4	0.3	41.2	27.7	56.0	46.0	14.8	18.3	N
6	1.50000	41.2	27.5	0.3	41.5	27.8	56.0	46.0	14.5	18.2	N
7	1.72950	41.0	27.9	0.3	41.3	28.2	56.0	46.0	14.7	17.8	N
8	1.95400	40.6	27.0	0.3	40.9	27.3	56.0	46.0	15.1	18.7	N
9	13.22500	31.5	27.4	0.7	32.2	28.1	60.0	50.0	27.8	21.9	N
10	0.19028	32.4	18.8	0.2	32.6	19.0	64.0	54.0	31.4	35.0	L1
11	0.34086	37.2	32.2	0.2	37.4	32.4	59.2	49.2	21.8	16.8	L1
12	0.56998	38.9	30.8	0.2	39.1	31.0	56.0	46.0	16.9	15.0	L1
13	0.79383	39.1	27.8	0.2	39.3	28.0	56.0	46.0	16.7	18.0	L1
14	1.26600	39.7	27.7	0.3	40.0	28.0	56.0	46.0	16.0	18.0	L1
15	1.48000	39.1	23.0	0.3	39.4	23.3	56.0	46.0	16.6	22.7	L1
16	1.73150	39.2	24.0	0.3	39.5	24.3	56.0	46.0	16.5	21.7	L1
17	1.95800	39.5	26.9	0.3	39.8	27.2	56.0	46.0	16.2	18.8	L1
18	13.32450	33.3	28.7	0.7	34.0	29.4	60.0	50.0	26.0	20.6	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 0.8 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 (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 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 (dB μ V/m)	Quasi-peak (dB μ V/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 (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

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

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

3. Margin = Limit - Emission level

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

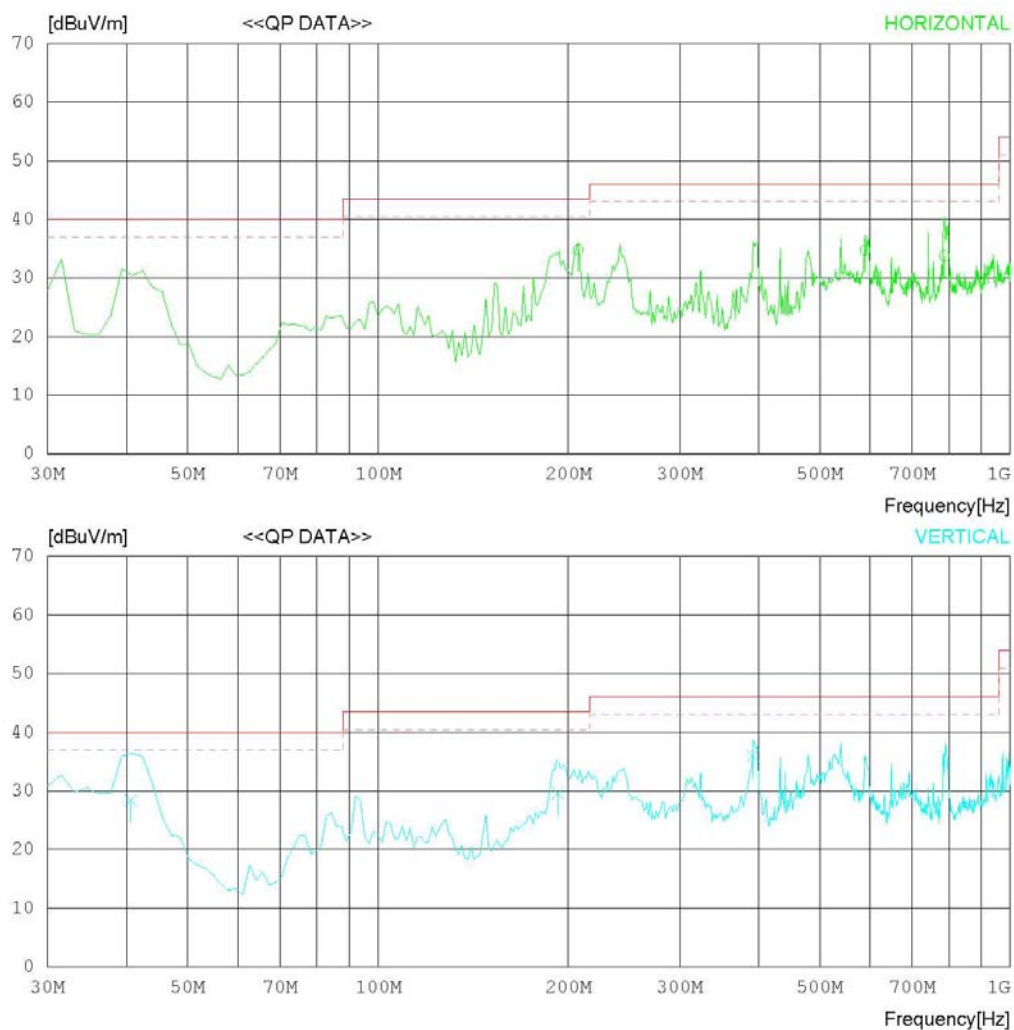
Date : 2013-02-05

Model Name : 42LA6650-UA
Model No. :
Serial No. :
Test Condition : HDMI

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

Memo :

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



RADIATED EMISSION

Date : 2013-02-05

Model Name : 42LA6650-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % R.H.
Test Condition : HDMI	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	207.216	46.3	10.1	2.3	23.9	34.8	43.5	8.7	178	140
2	589.504	35.4	18.6	4.1	23.4	34.7	46.0	11.3	127	251
3	787.036	32.7	19.8	4.8	23.5	33.8	46.0	12.2	110	78
----- Vertical -----										
4	40.649	38.5	13.0	1.1	24.2	28.4	40.0	11.6	112	202
5	192.586	41.7	9.7	2.2	24.0	29.6	43.5	13.9	137	201
6	391.663	40.2	15.8	3.5	23.5	36.0	46.0	10.0	110	148

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

RADIATED EMISSION

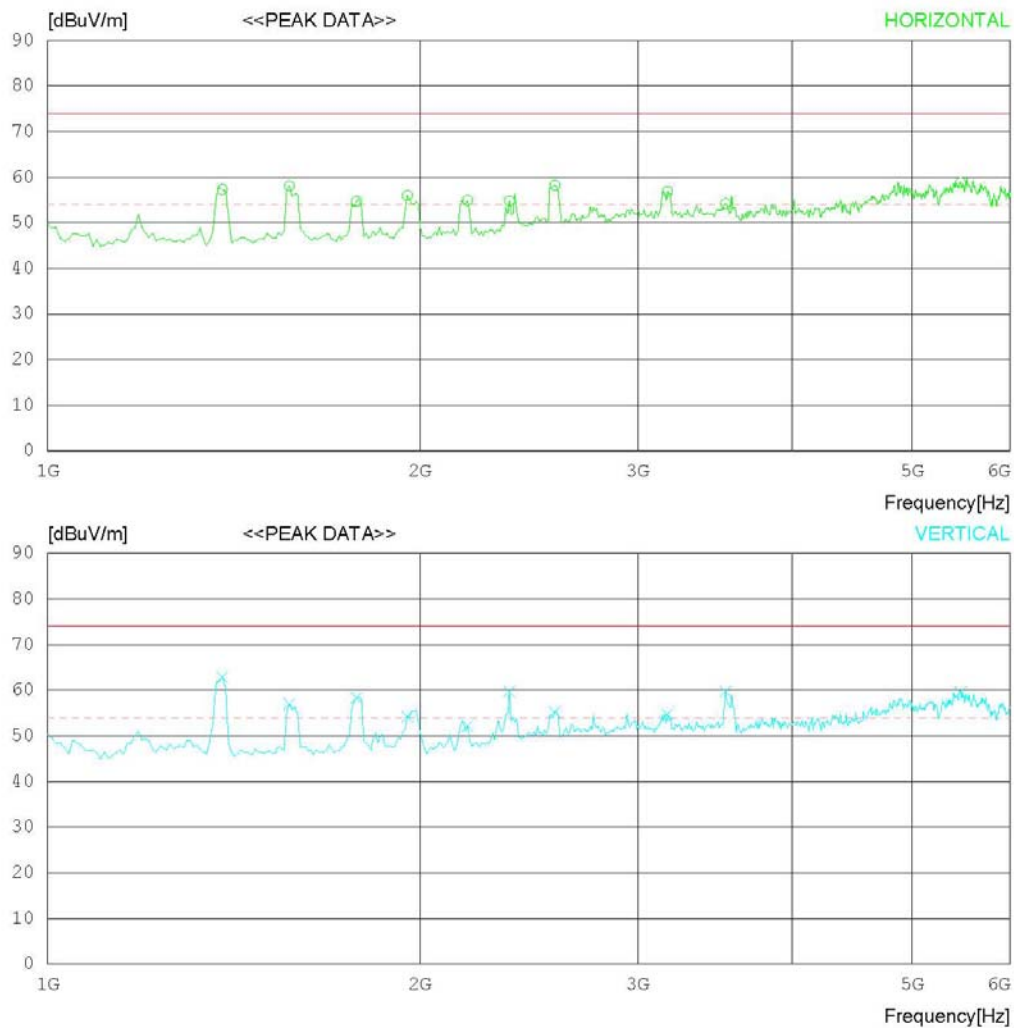
Date : 2013-02-06

Model Name : 42LA6650-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 42LA6650-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1384.615	61.3	24.5	7.1	35.6	57.3	74.0	16.7	100	1
2	1568.910	61.5	24.6	7.6	35.6	58.1	74.0	15.9	100	246
3	1777.243	57.7	24.6	8.0	35.6	54.7	74.0	19.3	100	197
4	1953.525	58.6	24.6	8.4	35.6	56.0	74.0	18	100	204
5	2185.899	56.2	25.6	8.9	35.8	54.9	74.0	19.1	100	211
6	2362.184	54.7	26.7	9.2	35.8	54.8	74.0	19.2	100	131
7	2570.520	56.3	27.7	9.7	35.5	58.2	74.0	15.8	100	1
8	3171.491	53.2	28.9	10.9	36.1	56.9	74.0	17.1	100	234
9	3532.073	48.9	29.0	11.8	35.5	54.2	74.0	19.8	100	1
10	5471.163	45.3	34.9	14.9	36.3	58.8	74.0	15.2	100	190
----- Vertical -----										
11	1384.615	66.9	24.5	7.1	35.6	62.9	74.0	11.1	100	197
12	1568.910	60.4	24.6	7.6	35.6	57.0	74.0	17	100	197
13	1777.243	61.4	24.6	8.0	35.6	58.4	74.0	15.6	100	165
14	1953.525	56.9	24.6	8.4	35.6	54.3	74.0	19.7	100	213
15	2185.899	53.5	25.6	8.9	35.8	52.2	74.0	21.8	100	358
16	2362.184	59.6	26.7	9.2	35.8	59.7	74.0	14.3	100	358
17	2570.520	53.3	27.7	9.7	35.5	55.2	74.0	18.8	100	358
18	3171.491	51.0	28.9	10.9	36.1	54.7	74.0	19.3	100	208
19	3532.073	54.4	29.0	11.8	35.5	59.7	74.0	14.3	100	194
20	5471.163	46.0	34.9	14.9	36.3	59.5	74.0	14.5	100	358

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

RADIATED EMISSION

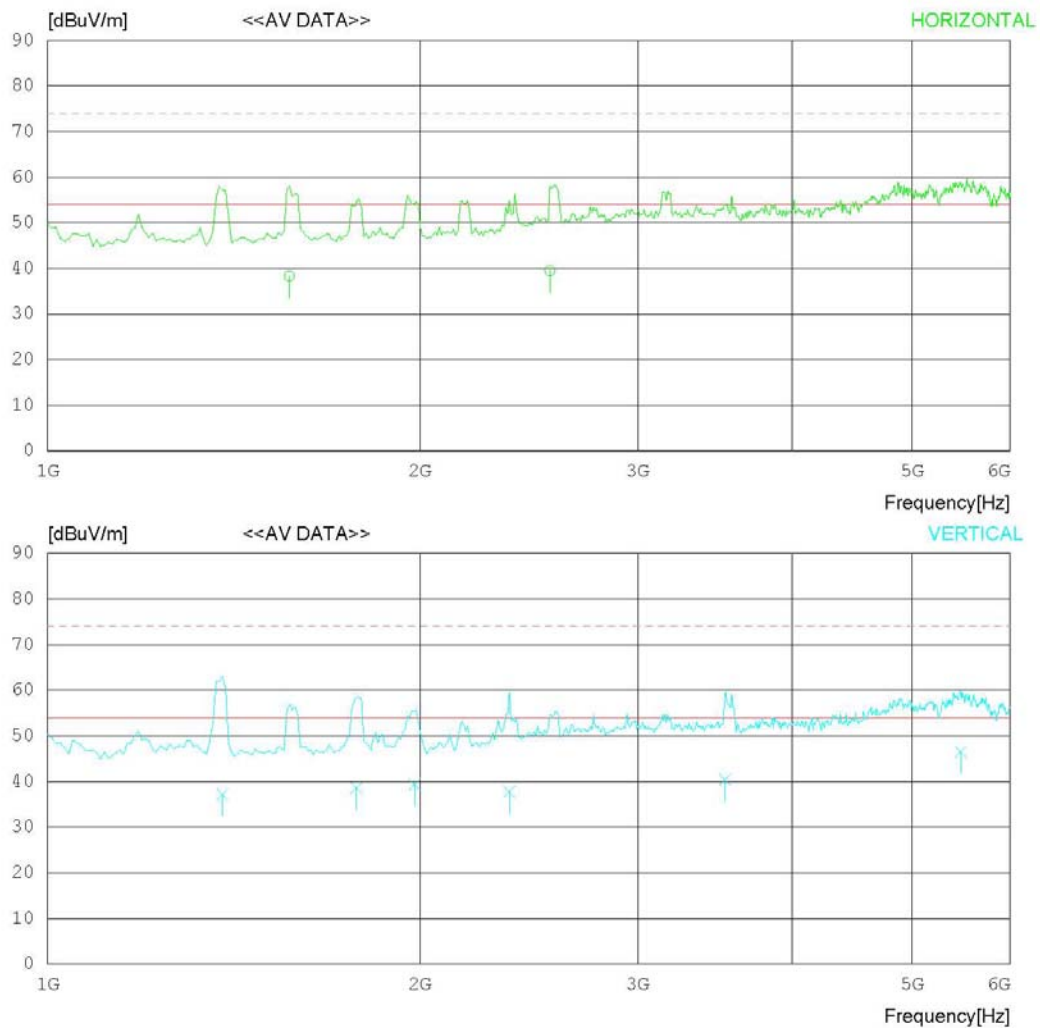
Date : 2013-02-06

Model Name : 42LA6650-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 42LA6650-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1568.288	41.7	24.6	7.6	35.6	38.3	54.0	15.7	100	352
2	2547.096	37.8	27.6	9.6	35.5	39.5	54.0	14.5	100	112
----- Vertical -----										
3	1384.745	41.2	24.5	7.1	35.6	37.2	54.0	16.8	100	321
4	1980.312	42.0	24.6	8.4	35.6	39.4	54.0	14.6	100	197
5	1777.504	41.6	24.6	8.0	35.6	38.6	54.0	15.4	100	165
6	2361.817	37.7	26.6	9.2	35.8	37.7	54.0	16.3	100	34
7	3529.177	35.1	29.0	11.8	35.5	40.4	54.0	13.6	100	172
8	5471.312	33.0	34.9	14.9	36.3	46.5	54.0	7.5	100	142

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

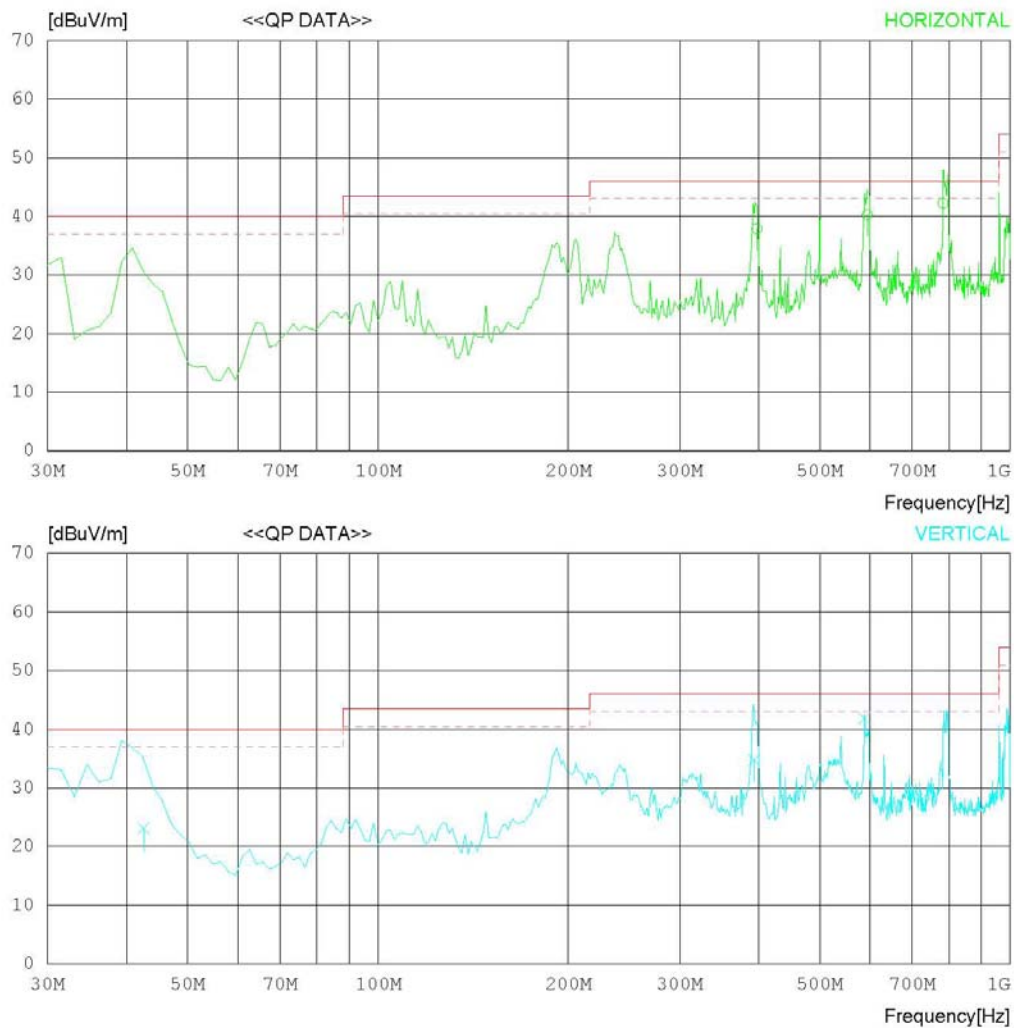
Date : 2013-02-06

Model Name : 42LA6650-UA
Model No. :
Serial No. :
Test Condition : USB

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

Memo :

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



RADIATED EMISSION

Date : 2013-02-06

Model Name : 42LA6650-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % R.H.
Test Condition : USB	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	397.241	41.9	16.0	3.5	23.5	37.9	46.0	8.1	214	140
2	594.227	41.0	18.6	4.1	23.4	40.3	46.0	5.7	117	230
3	783.418	41.2	19.7	4.8	23.5	42.2	46.0	3.8	124	327
----- Vertical -----										
4	42.581	32.8	13.4	1.1	24.2	23.1	40.0	16.9	107	342
5	393.480	38.9	15.9	3.5	23.5	34.8	46.0	11.2	227	210
6	587.865	42.7	18.5	4.1	23.4	41.9	46.0	4.1	110	112

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

RADIATED EMISSION

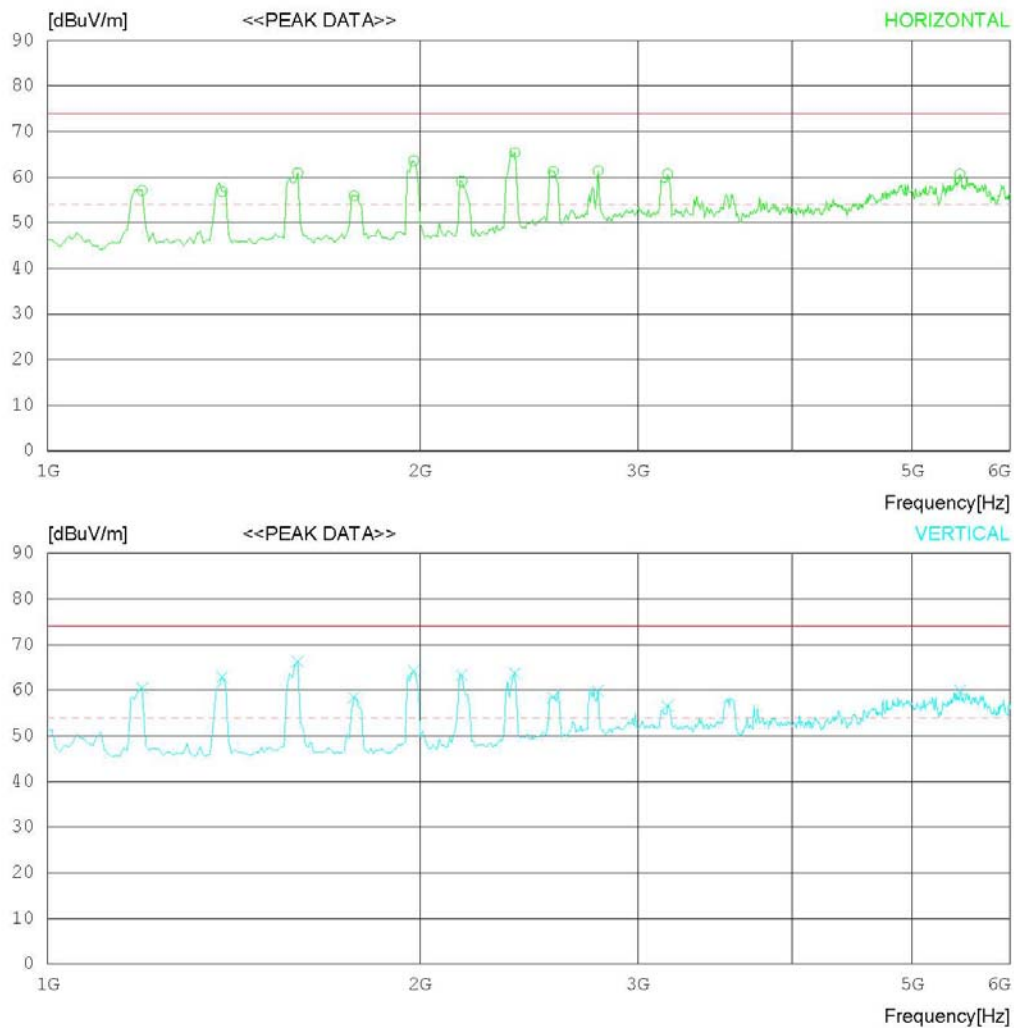
Date : 2013-02-06

Model Name : 42LA6650-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 42LA6650-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1192.308	62.2	24.2	6.4	35.7	57.1	74.0	16.9	100	1
2	1384.615	60.8	24.5	7.1	35.6	56.8	74.0	17.2	100	1
3	1592.948	64.2	24.6	7.7	35.6	60.9	74.0	13.1	100	1
4	1769.230	58.9	24.6	8.0	35.6	55.9	74.0	18.1	100	203
5	1977.564	66.2	24.6	8.4	35.6	63.6	74.0	10.4	100	1
6	2161.860	60.6	25.5	8.8	35.8	59.1	74.0	14.9	100	1
7	2386.223	65.1	26.8	9.3	35.8	65.4	74.0	8.6	100	160
8	2562.507	59.5	27.6	9.7	35.5	61.3	74.0	12.7	100	234
9	2786.870	58.5	28.3	10.1	35.5	61.4	74.0	12.6	100	241
10	3171.491	57.0	28.9	10.9	36.1	60.7	74.0	13.3	100	1
11	5463.150	47.2	34.9	14.9	36.3	60.7	74.0	13.3	100	1
----- Vertical -----										
12	1192.308	65.6	24.2	6.4	35.7	60.5	74.0	13.5	100	358
13	1384.615	66.9	24.5	7.1	35.6	62.9	74.0	11.1	100	195
14	1592.948	69.6	24.6	7.7	35.6	66.3	74.0	7.7	100	210
15	1769.230	61.5	24.6	8.0	35.6	58.5	74.0	15.5	100	212
16	1977.564	66.8	24.6	8.4	35.6	64.2	74.0	9.8	100	212
17	2161.860	64.8	25.5	8.8	35.8	63.3	74.0	10.7	100	358
18	2386.223	63.4	26.8	9.3	35.8	63.7	74.0	10.3	100	238
19	2562.507	56.7	27.6	9.7	35.5	58.5	74.0	15.5	100	358
20	2786.870	57.0	28.3	10.1	35.5	59.9	74.0	14.1	100	149
21	3171.491	52.9	28.9	10.9	36.1	56.6	74.0	17.4	100	358
22	5463.150	46.5	34.9	14.9	36.3	60.0	74.0	14	100	358

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

RADIATED EMISSION

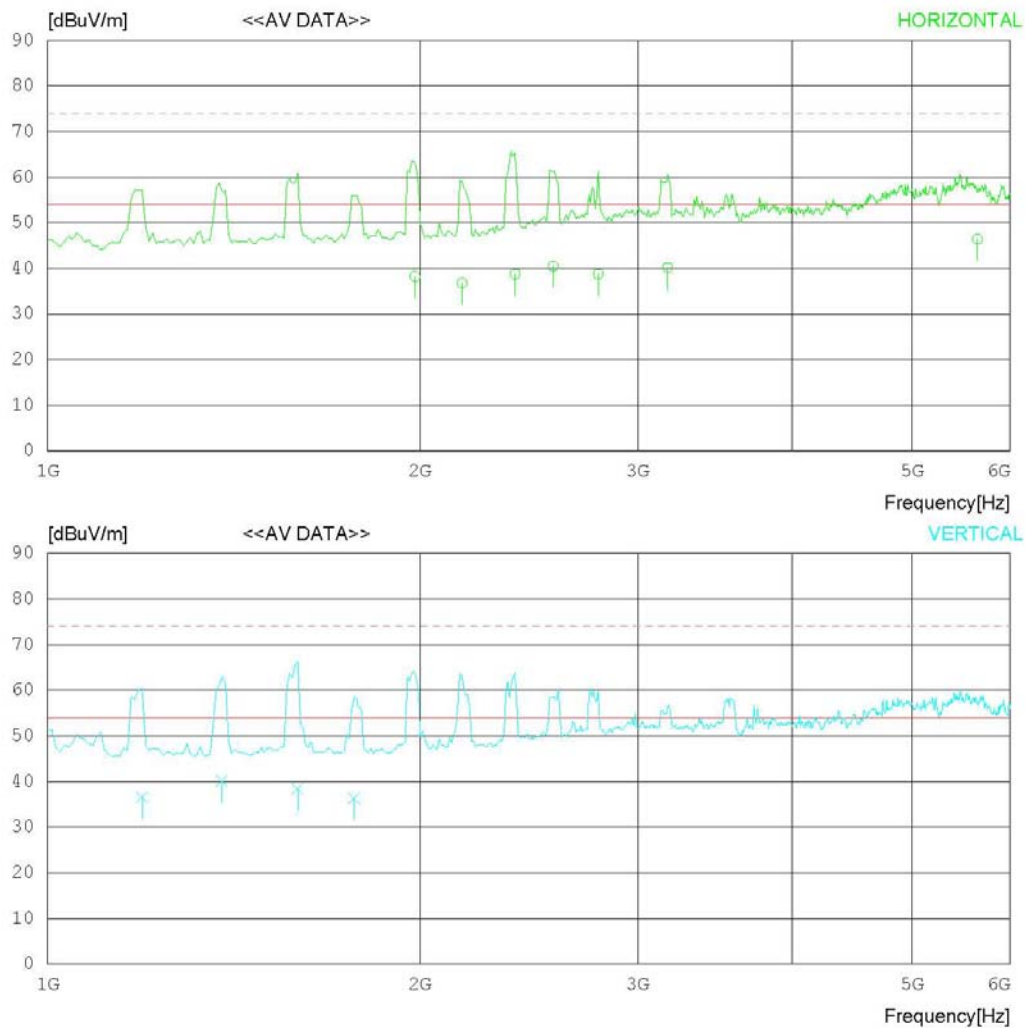
Date : 2013-02-06

Model Name : 42LA6650-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 42LA6650-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1981.161	40.8	24.6	8.4	35.6	38.2	54.0	15.8	100	136
2	2163.668	38.3	25.5	8.8	35.8	36.8	54.0	17.2	100	1
3	2388.355	38.5	26.8	9.3	35.8	38.8	54.0	15.2	100	160
4	2563.610	38.6	27.6	9.7	35.5	40.4	54.0	13.6	100	172
5	2786.480	35.9	28.3	10.1	35.5	38.8	54.0	15.2	100	239
6	3171.793	36.5	28.9	10.9	36.1	40.2	54.0	13.8	100	114
7	5645.908	33.4	34.1	15.1	36.2	46.4	54.0	7.6	100	128
----- Vertical -----										
8	1192.072	41.6	24.2	6.4	35.7	36.5	54.0	17.5	100	180
9	1383.086	44.1	24.5	7.1	35.6	40.1	54.0	13.9	100	172
10	1592.432	41.7	24.6	7.7	35.6	38.4	54.0	15.6	100	119
11	1769.240	39.3	24.6	8.0	35.6	36.3	54.0	17.7	100	212

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	2012.03.05	2013.03.05
☐ 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	2012.03.06	2013.03.06
☒ 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
☒ AMPLIFIER	MLA-00108-B02-36	TSJ	1518831	2013.01.09	2014.01.09
☐ 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	2012.03.06	2013.03.06
☐ 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	2012.03.05	2013.03.05

Appendix 2

Report Revision History

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