

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 55LA8600-UC
Order No. : DEMC1302-00540
Date of receipt : 2013-02-07
Test duration : 2013-02-14 ~ 2013-02-17
Use of report : FCC CoC Marking
Date of Issue : 2013-02-25

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 : (19 ~ 21) °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.

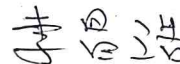
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Tested by:

Reviewed by:



Engineer
HyungJun Kim



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.	55LA8600-UC
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ55LA8600UC
Type of Sample Tested	Pre-Production
High Frequency	792 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.5 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
1152 x 864	54.348	60.05
1360 x 768	47.712	60.015
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	02-14	19	37
	02-14	20	37
Radiated Disturbance	02-17	21	37
	02-17	20	39
	02-17	21	38
	02-17	20	37

4.3 Test result Summary

(1) Conducted Emission (CAMERA MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
13.1590	L	39.4	Average	50.0	10.6

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
679.776	H	42.0	Quasi-Peak	46.0	4.0

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

- HDMI MODE : 1920x1080 Resolution (Worst case)
- USB MODE : USB record file play
- HDMI MODE & USB MODE : “H” characters scroll on the LCD TV screen.
- CAMERA MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	DC8CMF	G3RZKBX	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		
KEYBOARD	KB-065	CN111363232	HP	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	1094	X817158-002	MICROSOFT CORPORATION	USB	1.6	Not use	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER	1.8	Not use	Non-shield	Plastic	VER
				COMPONENT	1.6	Not use	Non-shield		
USB MEMORY	Cruzer 4GB	N/A	SANDISK	USB	-	-	-	-	DOC
PRINTER	Aculaser M1200	LWTZ181070	EPSON	USB	1.8	Not use	Shield	Plastic	-
				AC POWER	1.5	Not use	Non-shield		
HEADSET	COV903	N/A	COSY	HEADPHONE	2.5	Not use	Non-shield	Plastic	DOC
Remote Control	AN-MR400P	N/A	OHSUNG ELECTRONIC	-	-	-	-	-	-

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

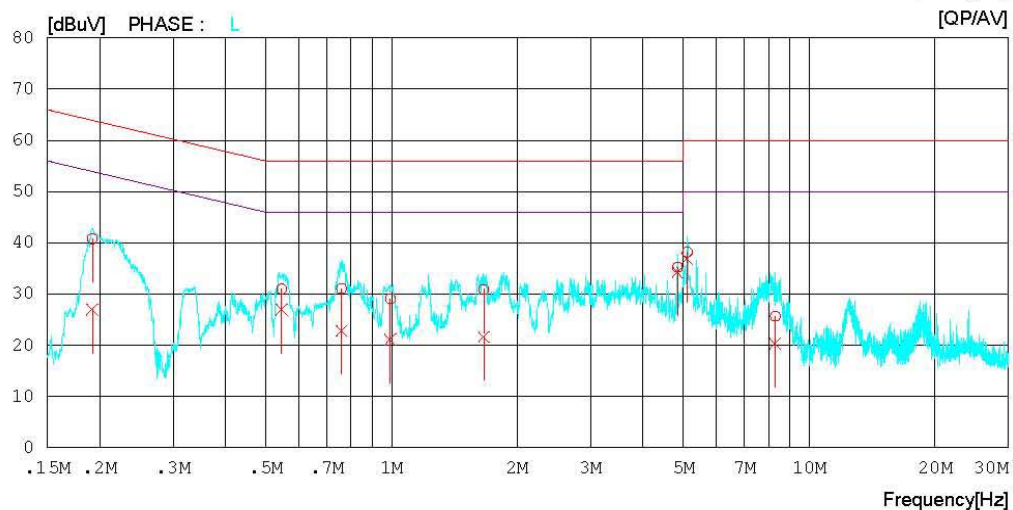
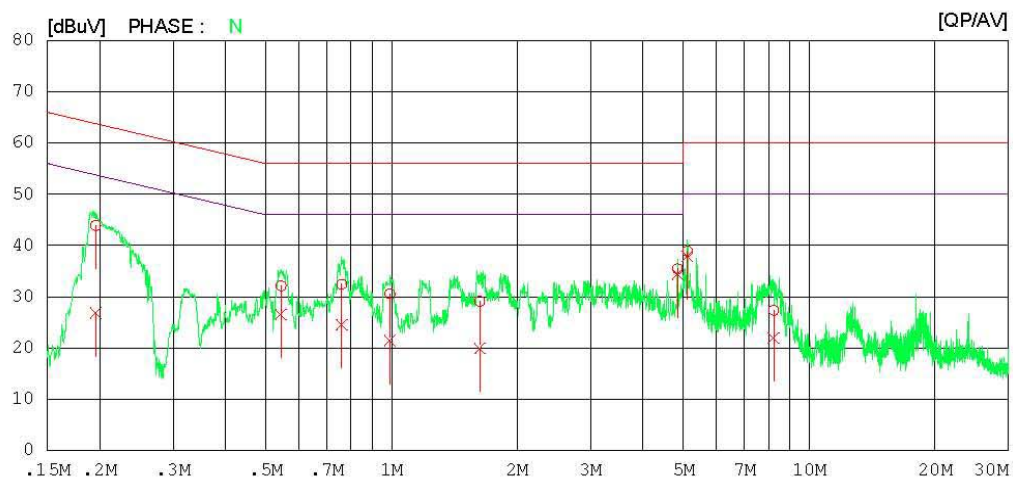
Digital EMC
Date : 2013-02-14

Model No. : 55LA8600-UC
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 37 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-14

Model No. : 55LA8600-UC
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 37 % 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	0.19598	43.7	26.6	0.2	43.9	26.8	63.8	53.8	19.9	27.0	N
2	0.54441	31.9	26.3	0.2	32.1	26.5	56.0	46.0	23.9	19.5	N
3	0.75988	32.3	24.3	0.2	32.5	24.5	56.0	46.0	23.5	21.5	N
4	0.99178	30.4	21.2	0.2	30.6	21.4	56.0	46.0	25.4	24.6	N
5	1.62750	28.8	19.6	0.3	29.1	19.9	56.0	46.0	26.9	26.1	N
6	4.84250	35.0	34.0	0.4	35.4	34.4	56.0	46.0	20.6	11.6	N
7	5.11050	38.5	37.5	0.4	38.9	37.9	60.0	50.0	21.1	12.1	N
8	8.22350	26.6	21.2	0.7	27.3	21.9	60.0	50.0	32.7	28.1	N
9	0.19209	40.6	26.7	0.2	40.8	26.9	63.9	53.9	23.1	27.0	L
10	0.54569	30.8	26.8	0.2	31.0	27.0	56.0	46.0	25.0	19.0	L
11	0.75905	30.9	22.6	0.2	31.1	22.8	56.0	46.0	24.9	23.2	L
12	0.99311	28.9	20.9	0.2	29.1	21.1	56.0	46.0	26.9	24.9	L
13	1.66550	30.6	21.4	0.3	30.9	21.7	56.0	46.0	25.1	24.3	L
14	4.84200	34.8	33.8	0.4	35.2	34.2	56.0	46.0	20.8	11.8	L
15	5.10950	37.8	36.5	0.4	38.2	36.9	60.0	50.0	21.8	13.1	L
16	8.29500	25.0	19.6	0.7	25.7	20.3	60.0	50.0	34.3	29.7	L

< USB MODE >



Results of Conducted Emission

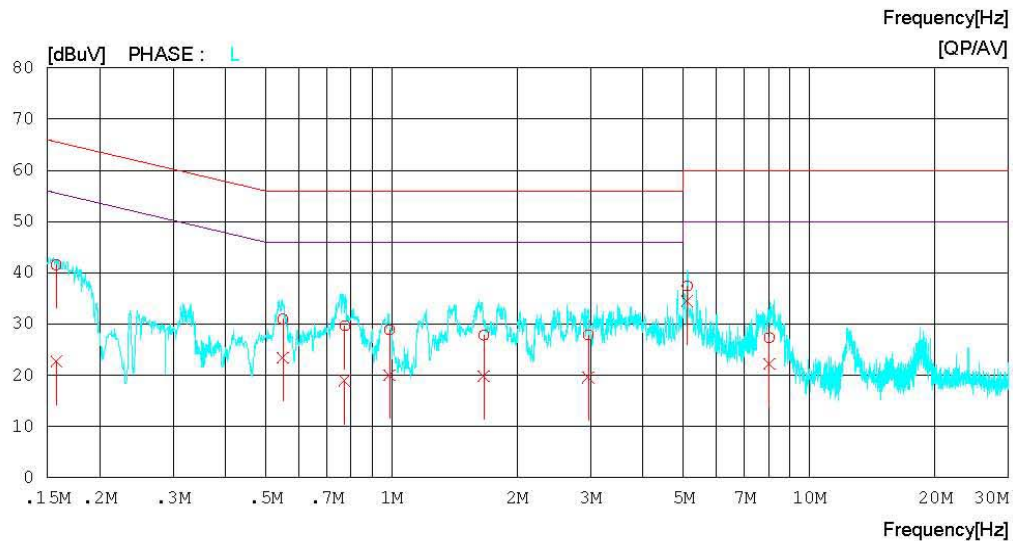
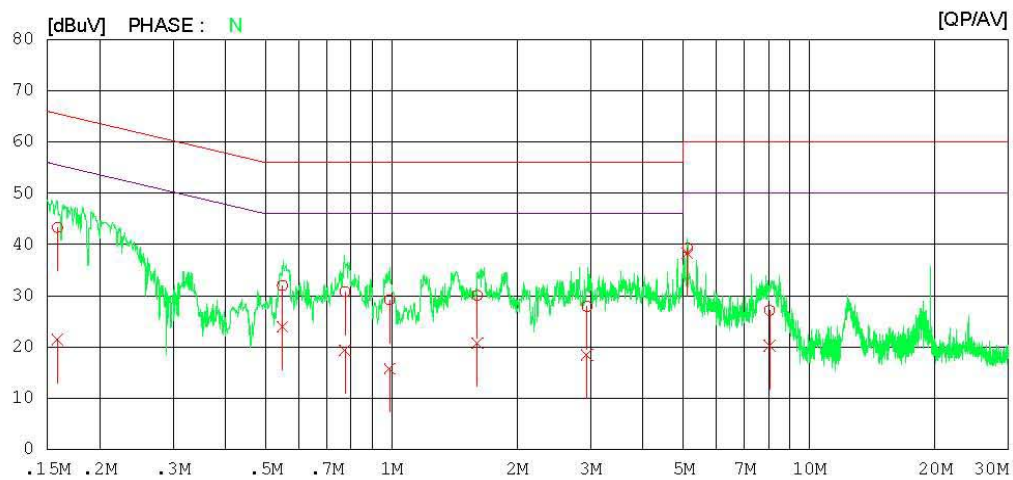
Digital EMC
Date : 2013-02-14

Model No. : 55LA8600-UC
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 37 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-14

Model No. : 55LA8600-UC
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 37 % 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	0.15870	43.1	21.3	0.2	43.3	21.5	65.5	55.5	22.2	34.0	N
2	0.54826	31.8	23.7	0.2	32.0	23.9	56.0	46.0	24.0	22.1	N
3	0.77360	30.6	19.2	0.2	30.8	19.4	56.0	46.0	25.2	26.6	N
4	0.99048	29.0	15.6	0.2	29.2	15.8	56.0	46.0	26.8	30.2	N
5	1.60500	29.8	20.5	0.3	30.1	20.8	56.0	46.0	25.9	25.2	N
6	2.94000	27.6	18.2	0.3	27.9	18.5	56.0	46.0	28.1	27.5	N
7	5.11200	38.9	37.9	0.4	39.3	38.3	60.0	50.0	20.7	11.7	N
8	8.03750	26.6	19.7	0.5	27.1	20.2	60.0	50.0	32.9	29.8	N
9	0.15754	41.3	22.5	0.2	41.5	22.7	65.6	55.6	24.1	32.9	L
10	0.54936	30.8	23.2	0.2	31.0	23.4	56.0	46.0	25.0	22.6	L
11	0.77325	29.5	18.8	0.2	29.7	19.0	56.0	46.0	26.3	27.0	L
12	0.98885	28.7	19.8	0.2	28.9	20.0	56.0	46.0	27.1	26.0	L
13	1.66450	27.6	19.6	0.3	27.9	19.9	56.0	46.0	28.1	26.1	L
14	2.95850	27.6	19.3	0.3	27.9	19.6	56.0	46.0	28.1	26.4	L
15	5.10950	37.0	34.1	0.4	37.4	34.5	60.0	50.0	22.6	15.5	L
16	8.02950	26.9	21.8	0.5	27.4	22.3	60.0	50.0	32.6	27.7	L

< CAMERA MODE >



Results of Conducted Emission

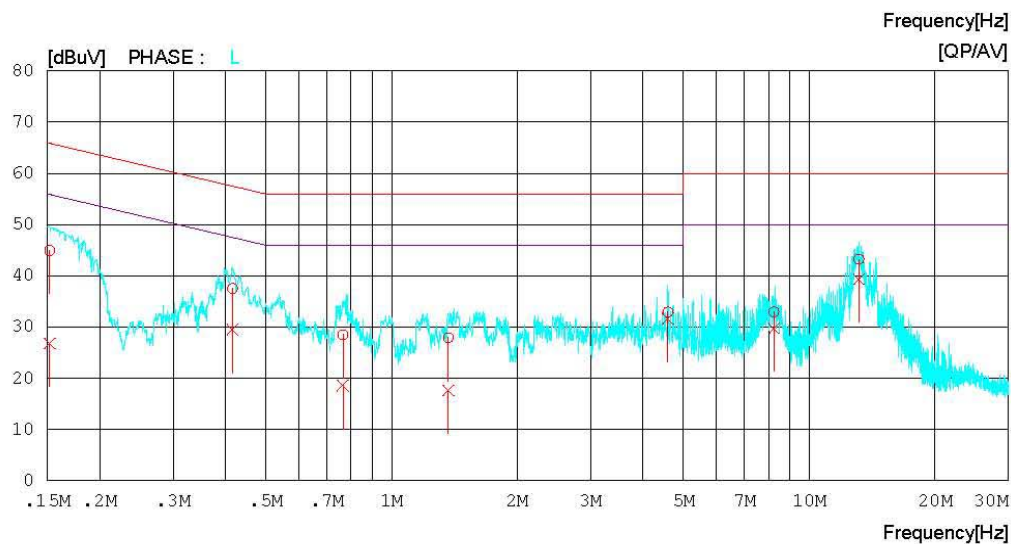
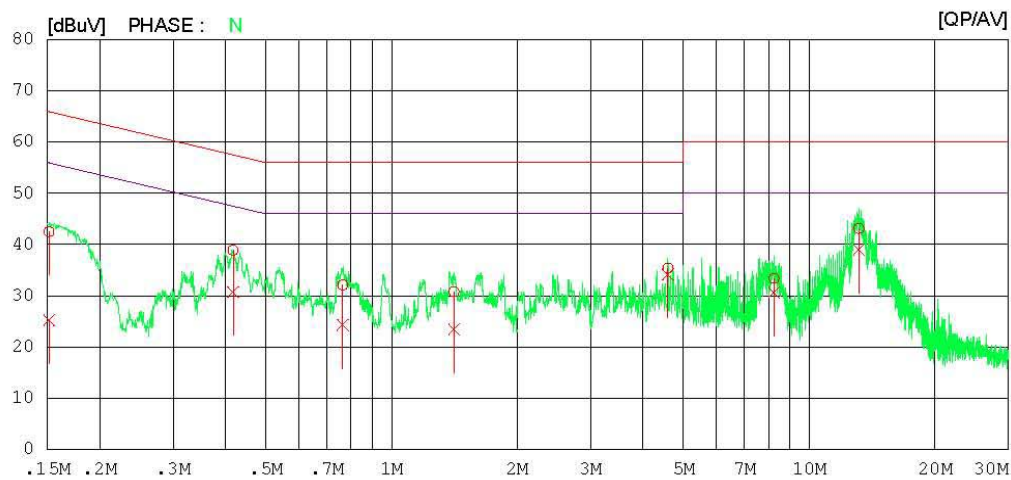
Digital EMC
Date : 2013-02-14

Model No. : 55LA8600-UC
Type :
Serial No. :
Test Condition : CAMERA

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 19 °C 37 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-14

Model No. : 55LA8600-UC
Type :
Serial No. :
Test Condition : CAMERA

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 19 °C 37 % 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	0.15142	42.3	25.0	0.2	42.5	25.2	65.9	55.9	23.4	30.7	N
2	0.41776	38.6	30.5	0.2	38.8	30.7	57.5	47.5	18.7	16.8	N
3	0.76458	31.9	24.1	0.2	32.1	24.3	56.0	46.0	23.9	21.7	N
4	1.41200	30.5	23.1	0.3	30.8	23.4	56.0	46.0	25.2	22.6	N
5	4.58950	35.0	33.7	0.4	35.4	34.1	56.0	46.0	20.6	11.9	N
6	8.23600	32.6	29.9	0.7	33.3	30.6	60.0	50.0	26.7	19.4	N
7	13.15650	42.4	38.2	0.7	43.1	38.9	60.0	50.0	16.9	11.1	N
8	0.15198	44.8	26.6	0.2	45.0	26.8	65.9	55.9	20.9	29.1	L
9	0.41655	37.3	29.3	0.2	37.5	29.5	57.5	47.5	20.0	18.0	L
10	0.76499	28.3	18.4	0.2	28.5	18.6	56.0	46.0	27.5	27.4	L
11	1.36800	27.6	17.4	0.3	27.9	17.7	56.0	46.0	28.1	28.3	L
12	4.59100	32.5	31.3	0.4	32.9	31.7	56.0	46.0	23.1	14.3	L
13	8.23550	32.3	29.1	0.7	33.0	29.8	60.0	50.0	27.0	20.2	L
14	13.15900	42.5	38.7	0.7	43.2	39.4	60.0	50.0	16.8	10.6	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 (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

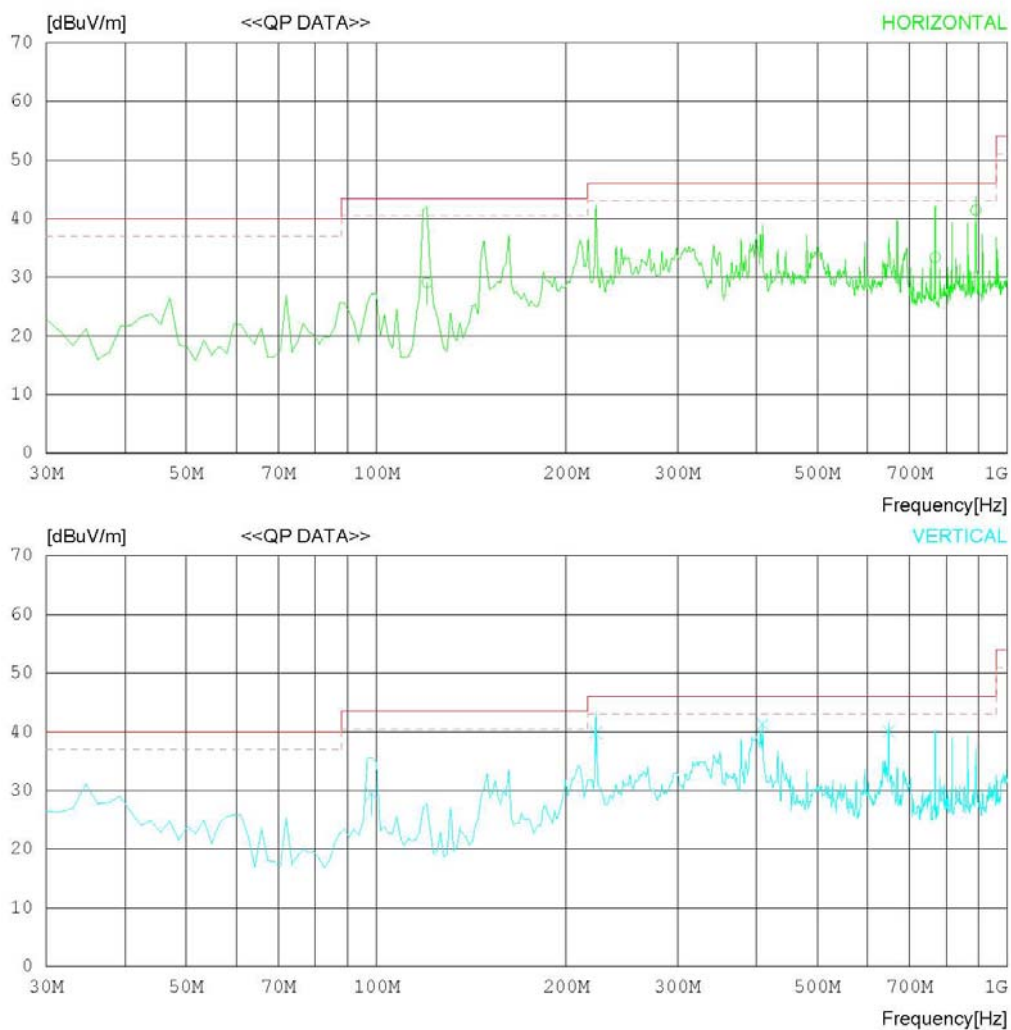
Date : 2013-02-17

Model Name : 55LA8600-UC
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)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2013-02-17

Model Name : 55LA8600-UC	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)
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	120.160	40.0	11.6	1.6	24.1	29.1	43.5	14.4	241	24
2	768.382	32.8	19.5	4.7	23.6	33.4	46.0	12.6	167	0
3	891.188	38.6	20.7	5.2	23.1	41.4	46.0	4.6	171	359
----- Vertical -----										
4	98.398	41.7	10.4	1.4	24.1	29.4	43.5	14.1	100	1
5	222.757	50.2	11.1	2.4	23.9	39.8	46.0	6.2	100	1
6	409.294	45.1	16.2	3.5	23.5	41.3	46.0	4.7	100	1
7	648.686	40.9	18.6	4.2	23.6	40.1	46.0	5.9	100	1

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

RADIATED EMISSION

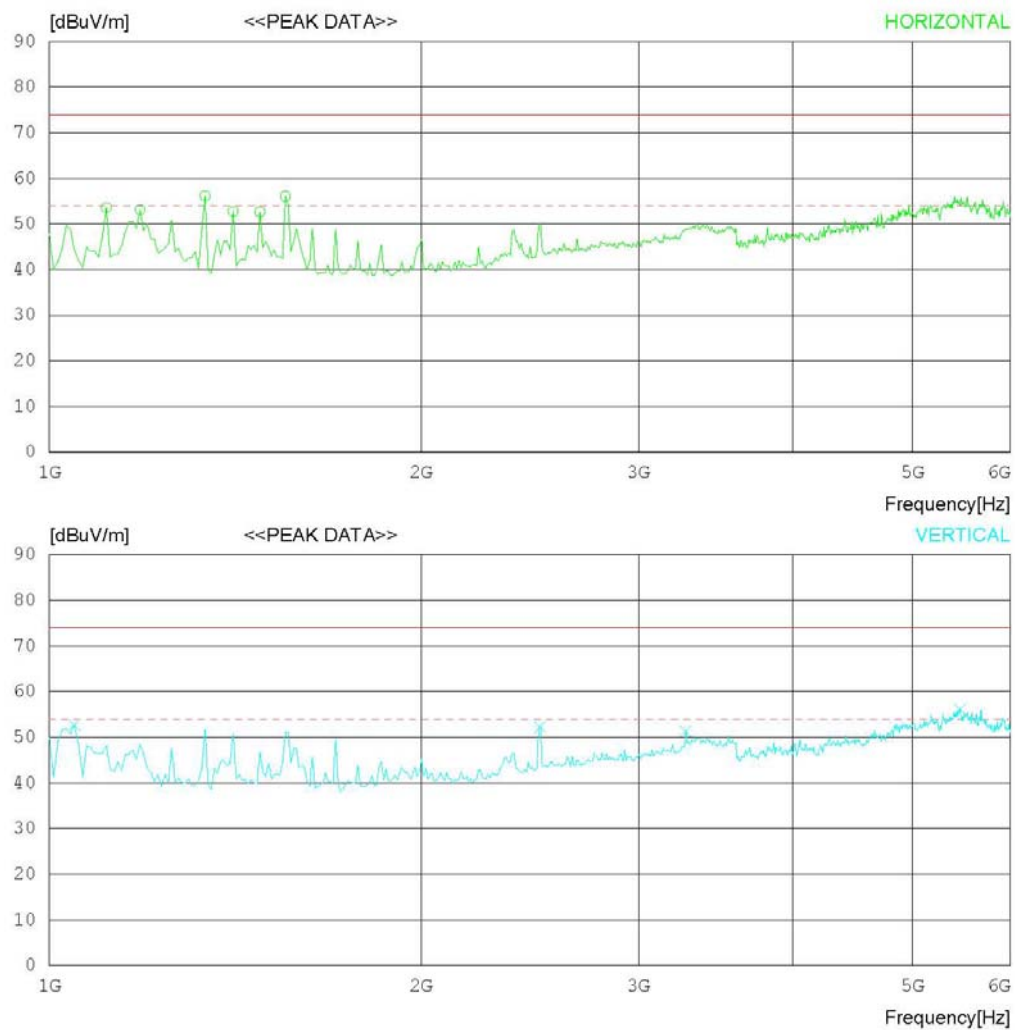
Date : 2013-02-17

Model Name : 55LA8600-UC
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 37 % 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 : 2013-02-17

Model Name : 55LA8600-UC	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 37 % 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	1112.179	52.0	24.0	6.1	28.5	53.6	74.0	20.4	100	358
2	1184.295	51.0	24.2	6.4	28.5	53.1	74.0	20.9	100	172
3	1336.538	53.4	24.4	6.9	28.5	56.2	74.0	17.8	100	221
4	1408.654	49.6	24.5	7.2	28.5	52.8	74.0	21.2	100	262
5	1480.769	49.2	24.6	7.4	28.5	52.7	74.0	21.3	100	205
6	1552.884	52.4	24.6	7.6	28.5	56.1	74.0	17.9	100	358
----- Vertical -----										
7	1048.077	51.4	23.9	5.9	28.5	52.7	74.0	21.3	100	1
8	2498.404	43.9	27.4	9.5	28.5	52.3	74.0	21.7	100	1
9	3275.659	39.6	28.9	11.2	28.4	51.3	74.0	22.7	100	136
10	5463.150	34.4	34.9	14.9	28.1	56.1	74.0	17.9	100	1

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

RADIATED EMISSION

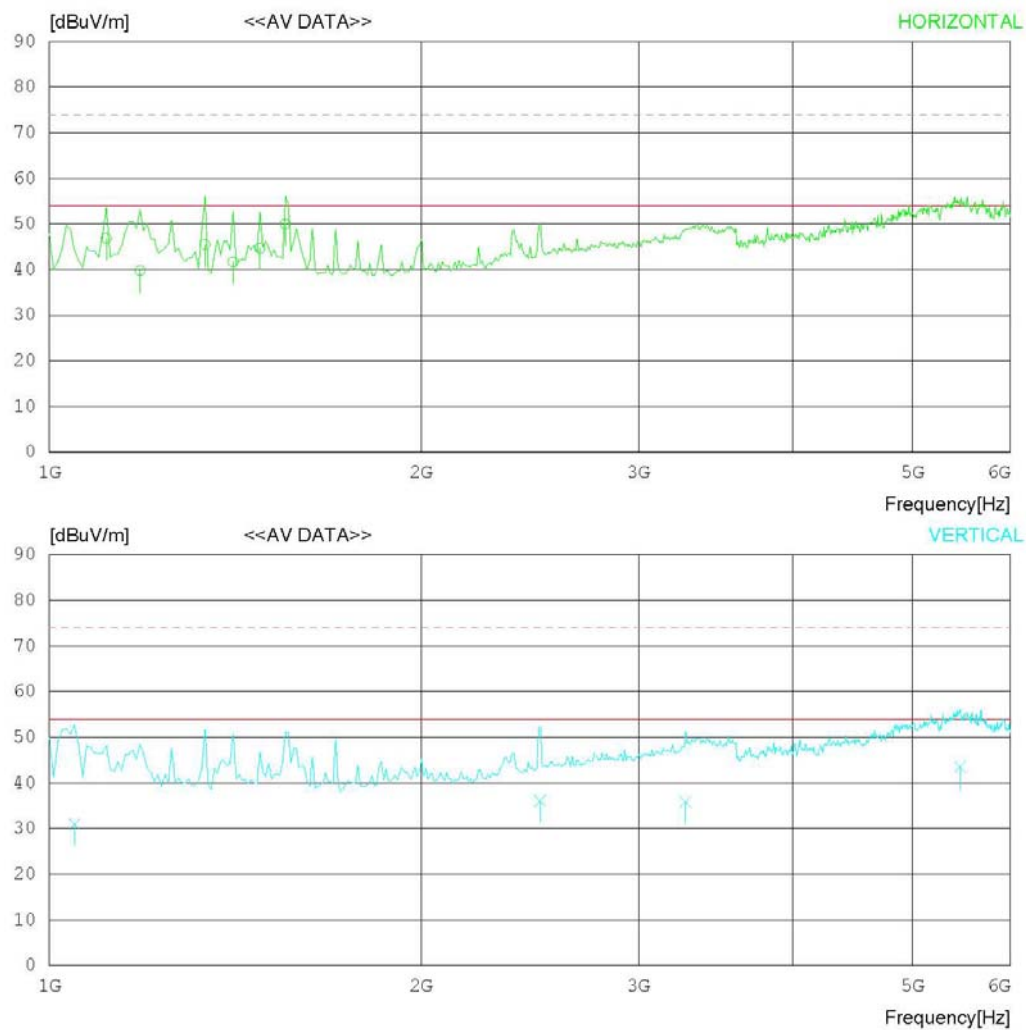
Date : 2013-02-17

Model Name : 55LA8600-UC
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 37 % 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 : 2013-02-17

Model Name : 55LA8600-UC	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 37 % 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	1112.179	45.3	24.0	6.1	28.5	46.9	54.0	7.1	100	358
2	1184.295	37.7	24.2	6.4	28.5	39.8	54.0	14.2	100	172
3	1336.538	42.7	24.4	6.9	28.5	45.5	54.0	8.5	100	221
4	1408.654	38.5	24.5	7.2	28.5	41.7	54.0	12.3	100	262
5	1480.769	41.2	24.6	7.4	28.5	44.7	54.0	9.3	100	205
6	1552.884	46.3	24.6	7.6	28.5	50.0	54.0	4.0	100	358
----- Vertical -----										
7	1048.077	29.7	23.9	5.9	28.5	31.0	54.0	23.0	100	1
8	2498.404	27.7	27.4	9.5	28.5	36.1	54.0	17.9	100	1
9	3275.659	24.1	28.9	11.2	28.4	35.8	54.0	18.2	100	136
10	5463.150	21.8	34.9	14.9	28.1	43.5	54.0	10.5	100	1

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

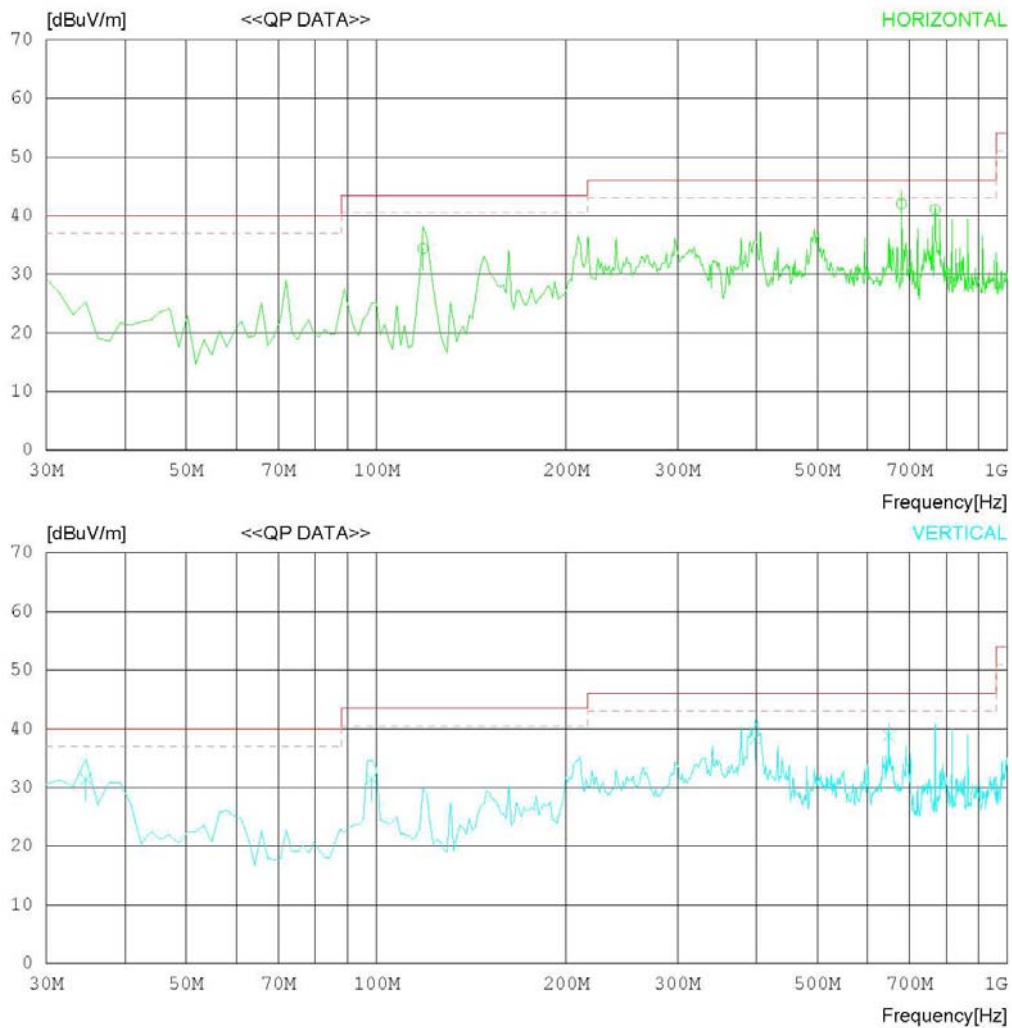
Date : 2013-02-17

Model Name : 55LA8600-UC
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)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2013-02-17

Model Name : 55LA8600-UC	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)
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	118.606	45.4	11.5	1.6	24.1	34.4	43.5	9.1	356	14
2	679.776	42.6	18.6	4.5	23.7	42.0	46.0	4.0	100	122
3	768.382	40.4	19.5	4.7	23.6	41.0	46.0	5.0	196	359
----- Vertical -----										
4	34.663	38.9	15.4	1.1	23.9	31.5	40.0	8.5	100	143
5	98.398	43.8	10.4	1.4	24.1	31.5	43.5	12.0	100	347
6	398.413	42.3	16.0	3.5	23.5	38.3	46.0	7.7	100	181
7	648.686	39.6	18.6	4.2	23.6	38.8	46.0	7.2	100	166

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

RADIATED EMISSION

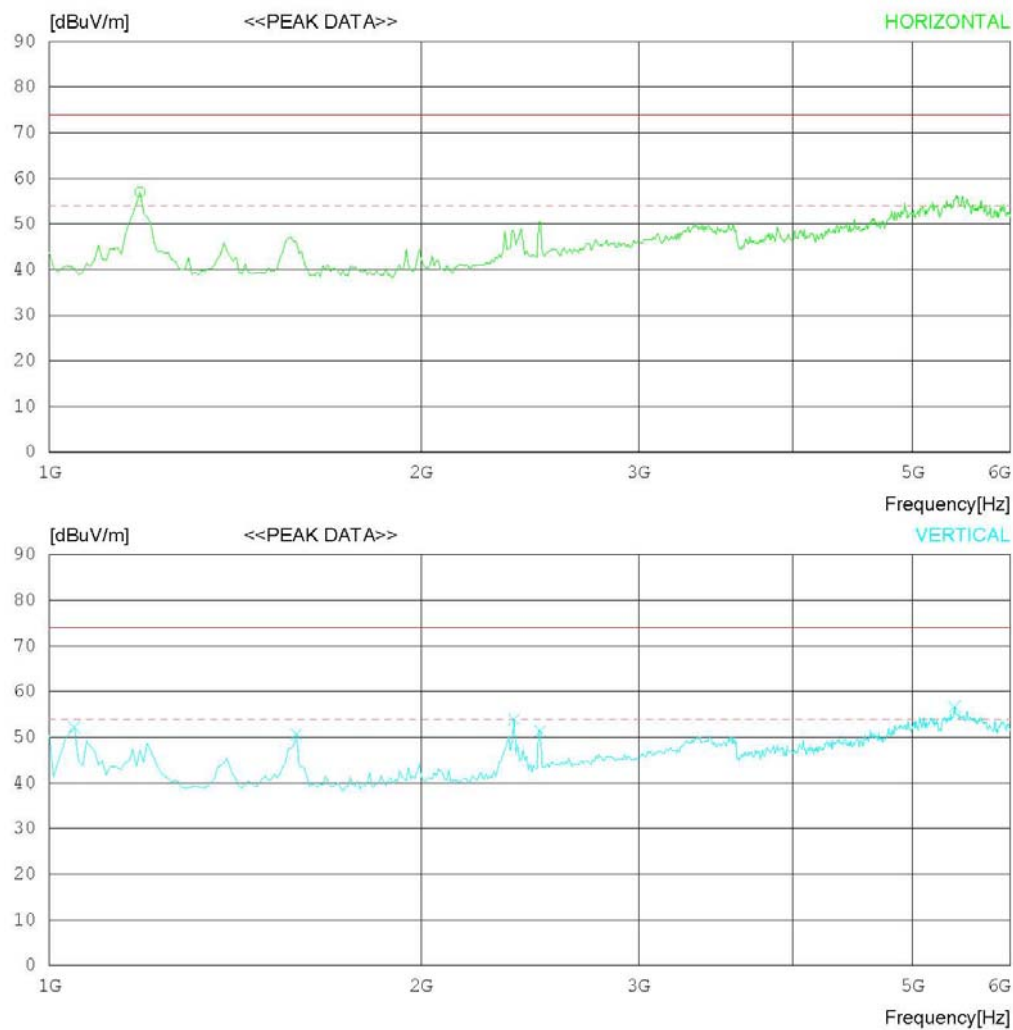
Date : 2013-02-17

Model Name : 55LA8600-UC
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 37 % 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 : 2013-02-17

Model Name : 55LA8600-UC	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 37 % 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	1184.295	54.9	24.2	6.4	28.5	57.0	74.0	17	100	358
----- Vertical -----										
2	1048.077	50.9	23.9	5.9	28.5	52.2	74.0	21.8	100	165
3	1584.936	46.9	24.6	7.7	28.5	50.7	74.0	23.3	100	212
4	2378.210	46.4	26.7	9.3	28.5	53.9	74.0	20.1	100	1
5	2498.404	43.0	27.4	9.5	28.5	51.4	74.0	22.6	100	1
6	5407.061	35.2	34.6	15.0	28.1	56.7	74.0	17.3	100	1

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

RADIATED EMISSION

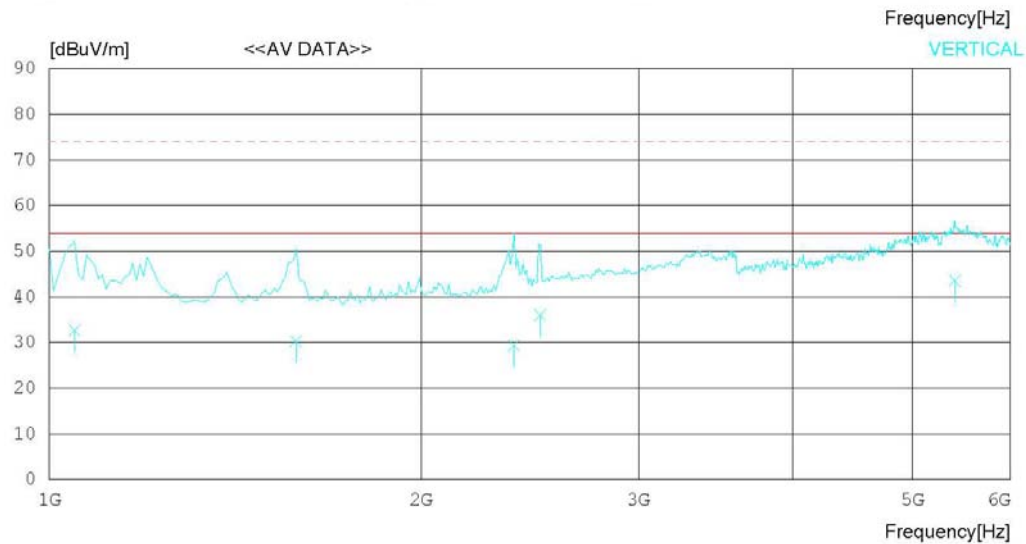
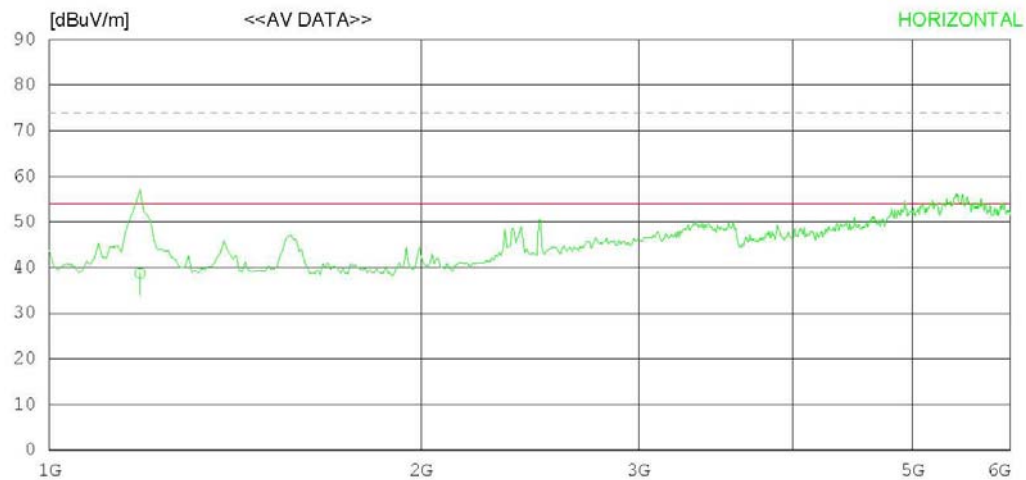
Date : 2013-02-17

Model Name : 55LA8600-UC
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 37 % 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 : 2013-02-17

Model Name : 55LA8600-UC	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 'C 37 % 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	1184.295	36.7	24.2	6.4	28.5	38.8	54.0	15.2	100	358
----- Vertical -----										
2	1048.077	31.4	23.9	5.9	28.5	32.7	54.0	21.3	100	165
3	1584.936	26.5	24.6	7.7	28.5	30.3	54.0	23.7	100	212
4	2378.210	21.9	26.7	9.3	28.5	29.4	54.0	24.6	100	1
5	2498.404	27.6	27.4	9.5	28.5	36.0	54.0	18.0	100	1
6	5407.061	22.1	34.6	15.0	28.1	43.6	54.0	10.4	100	1

< CAMERA MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

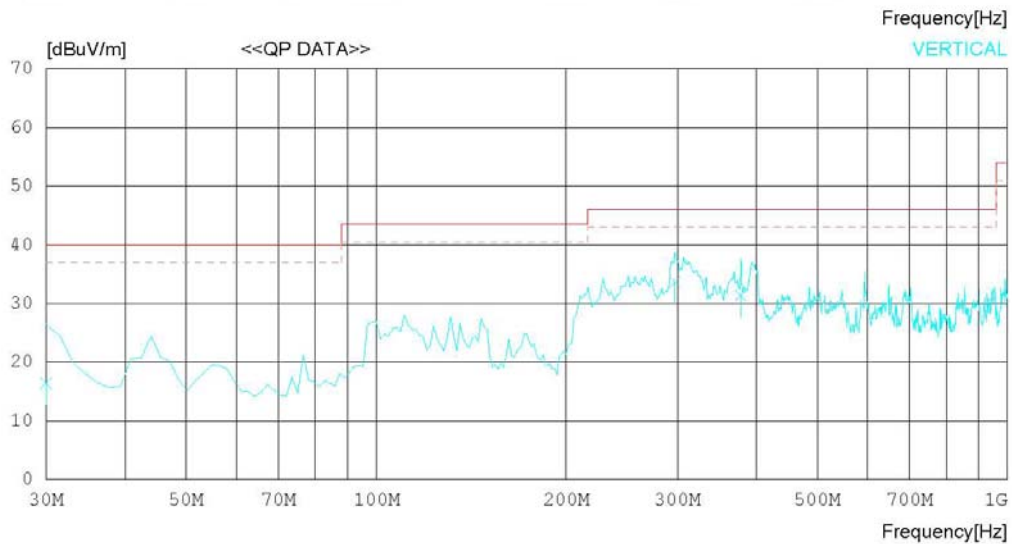
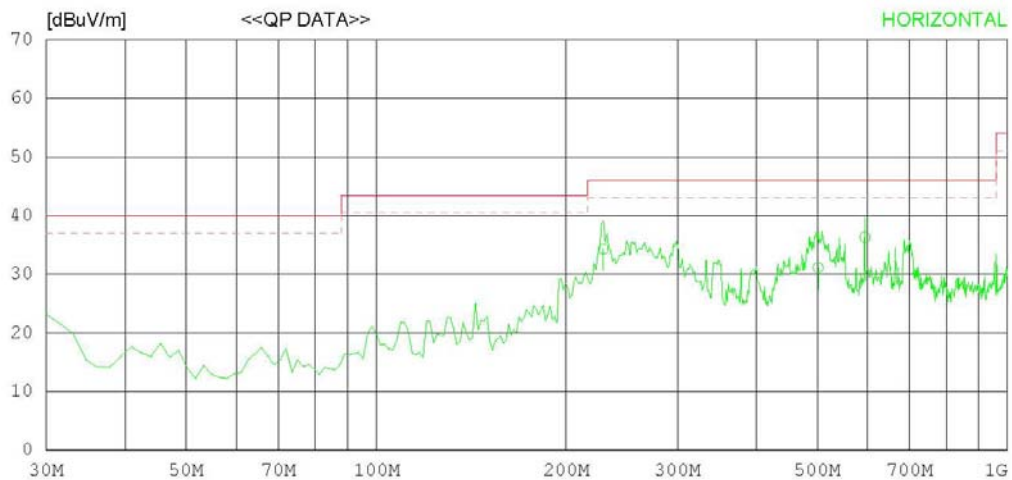
Date : 2013-02-17

Model Name : 55LA8600-UC
Model No. :
Serial No. :
Test Condition : CAMERA

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 21 °C 38 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-17

Model Name : 55LA8600-UC	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 21 'C 38 % R.H
Test Condition : CAMERA	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	228.975	44.2	11.4	2.5	23.8	34.3	46.0	11.7	100	135
2	501.008	32.8	17.4	3.9	23.0	31.1	46.0	14.9	100	358
3	594.278	37.0	18.6	4.1	23.4	36.3	46.0	9.7	251	140
----- Vertical -----										
4	30.000	21.5	17.9	0.8	23.8	16.4	40.0	23.6	100	1
5	297.372	40.8	13.7	2.8	23.6	33.7	46.0	12.3	100	1
6	378.204	35.9	15.5	3.5	23.5	31.4	46.0	14.6	100	1

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

RADIATED EMISSION

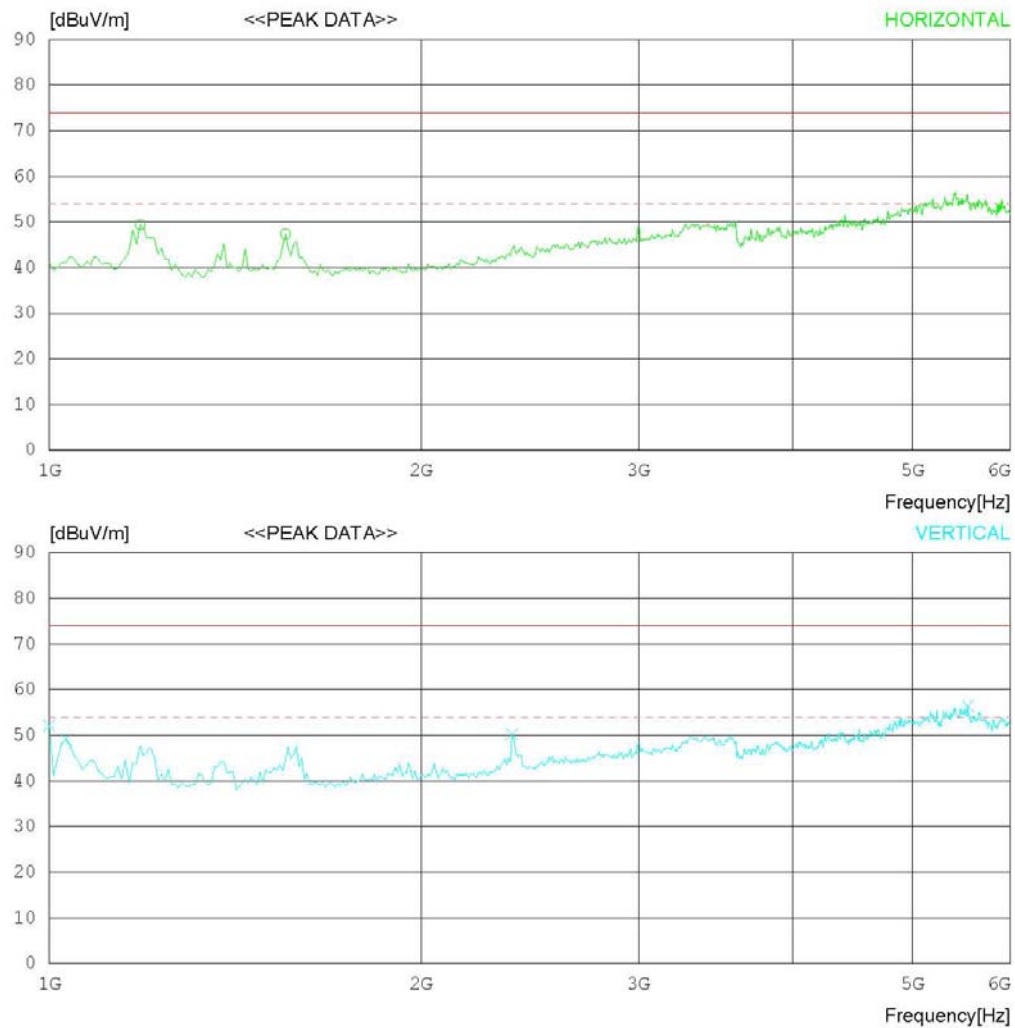
Date : 2013-02-17

Model Name : 55LA8600-UC
Model No. :
Serial No. :
Test Condition : CAMERA

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 21 °C 37 % 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 : 2013-02-17

Model Name : 55LA8600-UC	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 21 'C 37 % R.H
Test Condition : CAMERA	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	1184.295	47.3	24.2	6.4	28.5	49.4	74.0	24.6	100	143
2	1552.884	43.7	24.6	7.6	28.5	47.4	74.0	26.6	100	198
----- Vertical -----										
3	1000.000	51.1	23.9	5.7	28.5	52.2	74.0	21.8	100	358
4	1032.051	47.7	23.9	5.9	28.5	49.0	74.0	25	100	358
5	2370.197	42.7	26.7	9.3	28.5	50.2	74.0	23.8	100	358
6	5543.277	35.0	34.8	14.9	28.2	56.5	74.0	17.5	100	358

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

RADIATED EMISSION

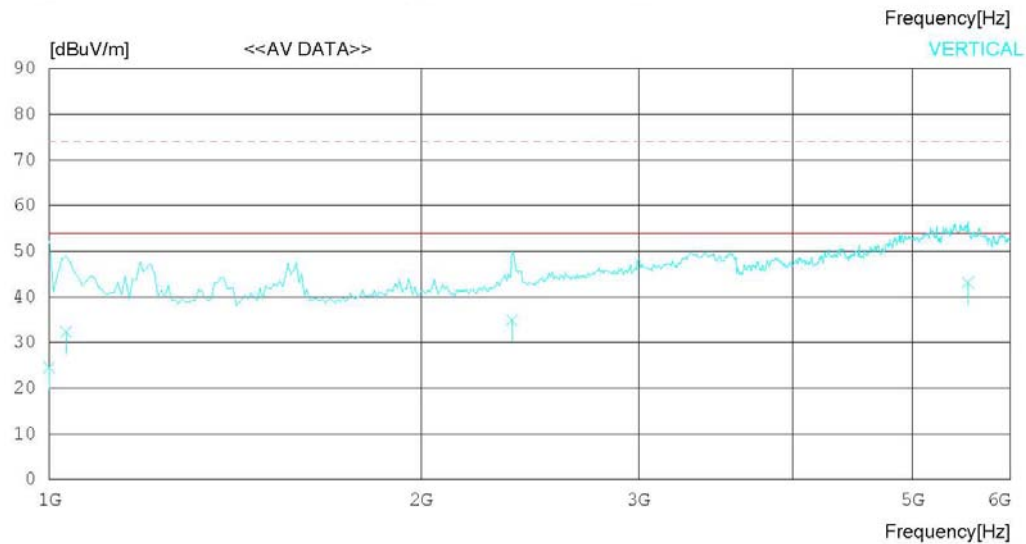
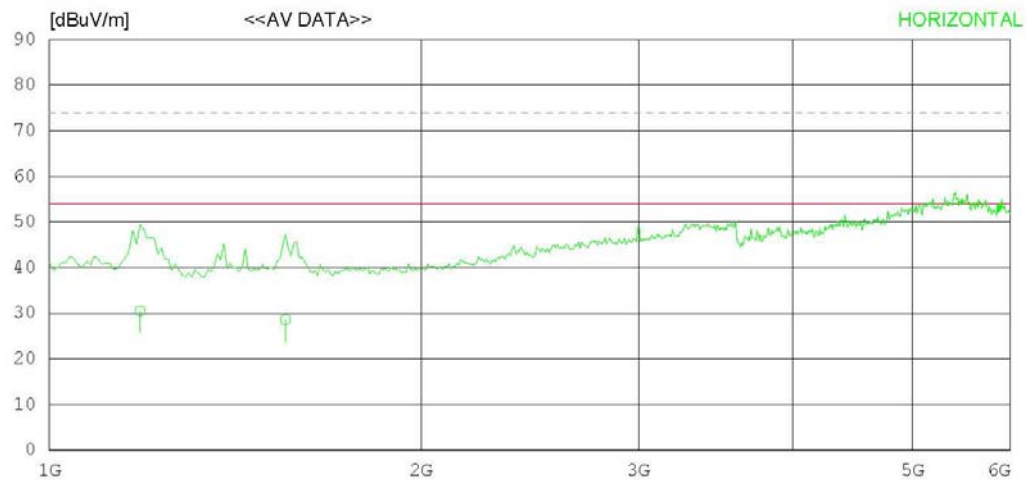
Date : 2013-02-17

Model Name : 55LA8600-UC
Model No. :
Serial No. :
Test Condition : CAMERA

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 21 °C 37 % 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 : 2013-02-17

Model Name : 55LA8600-UC	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 21 °C 37 % R.H
Test Condition : CAMERA	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	1184.295	28.4	24.2	6.4	28.5	30.5	54.0	23.5	100	143
2	1552.884	24.9	24.6	7.6	28.5	28.6	54.0	25.4	100	198
----- Vertical -----										
3	1000.000	23.5	23.9	5.7	28.5	24.6	54.0	29.4	100	358
4	1032.051	31.1	23.9	5.9	28.5	32.4	54.0	21.6	100	358
5	2370.197	27.4	26.7	9.3	28.5	34.9	54.0	19.1	100	358
6	5543.277	21.7	34.8	14.9	28.2	43.2	54.0	10.8	100	358

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-100M18-B01-25	TSJ	1719458	2012.06.04	2013.06.04
☐ 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