EMC TEST REPORT

Test item	: LED LCD TV monitor
Model No.	: 55LS675H-UA
Order No.	: 1209-01930
Date of receipt	: 2012-09-26
Test duration	: 2012-10-01 ~ 2012-10-02
Use of report	: FCC CoC Marking
Date of Issue	: 2012-10-08

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 : (22 ~ 26) °C,
Humidity : (46 ~ 58) % R.H.

Test result : ☒ Comply ☐ Not Comply

Tested by:

Manager
M.J.SONG

Reviewed by:

General Manager
C.H.LEE

PRESIDENT OF DIGITAL EMC CO., LTD.

CONTENTS

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.digitalemc.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.	55LS675H-UA
EUT Type	LED LCD TV monitor
Serial No	NONE
FCC ID	BEJ55LS675HUA
Type of Sample Tested	Pre-Production
High Frequency	667 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

RGB(PC), HDMI (PC) supported mode

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 (℃)	Humidity (% R.H.)
Conducted Disturbance	10-02	26	46
Radiated Disturbance	10-01	22	58

4.3 Test result Summary

(1) Conducted Emission(USB MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
3.437	**N**	**31.9**	Average	**46.0**	**14.1**

(2) Radiated Emission(DSUB MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
346.512	**H**	**42.4**	Quasi-Peak	**46.0**	**3.6**

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 – Resolution : 1920x1080 Resolution (Worst Case)
- HDMI MODE – Resolution : 1920x1080 Resolution (Worst Case)
- USB MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	D02M	9K77SBX	DELL INC.	POWER HDMI DSUB STEREO USB USB USB	1.8 1.8 1.8 1.7 1.8 1.7 1.8	Not use Not use Not use Not use Not use Not use Not use	Non-shield Shield Shield Non-shield Shield Non-shield Non-shield	Plastic	DOC
MOUSE	1094	X817158002	MICROSOFT CORPORATION	USB	1.8	Not use	Non-shield	Plastic	DOC
KEYBOARD	SKG-3000UB	TAKB601233M	MONITEREY INTERNATIONAL CORP.	USB	1.7	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS.	Power Composite	1.5 1.0	Not use Not use	Non-shield Non-shield	Plastic	VER
PRINTER	SRP-770	N/A	BIXOLON	POWER RS-232	1.8 1.8	Not use Not use	Non-shield Non-shield	Plastic	DOC
USB MEMORY	Domino	N/A	IRIVER	USB	-	-	-	-	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

< DSUB MODE >

Digital EMC

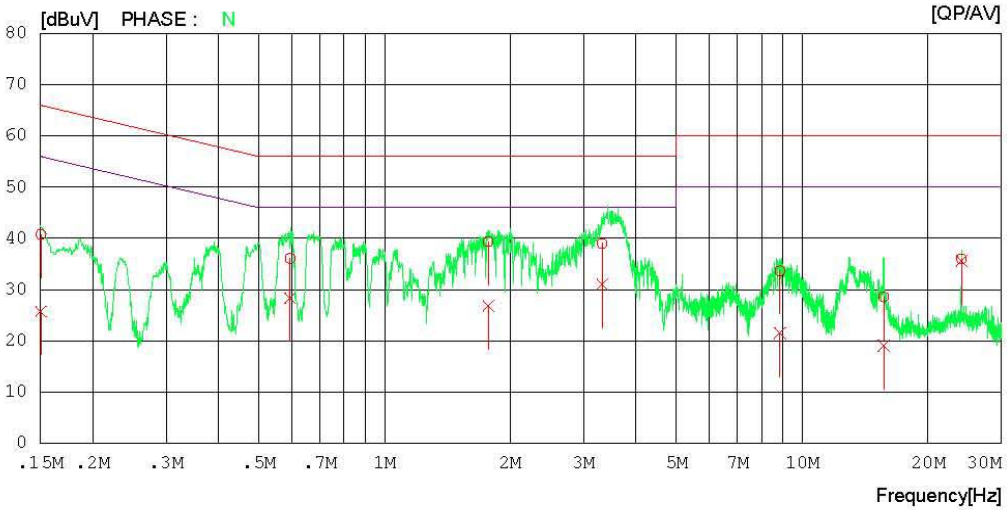
Results of Conducted Emission

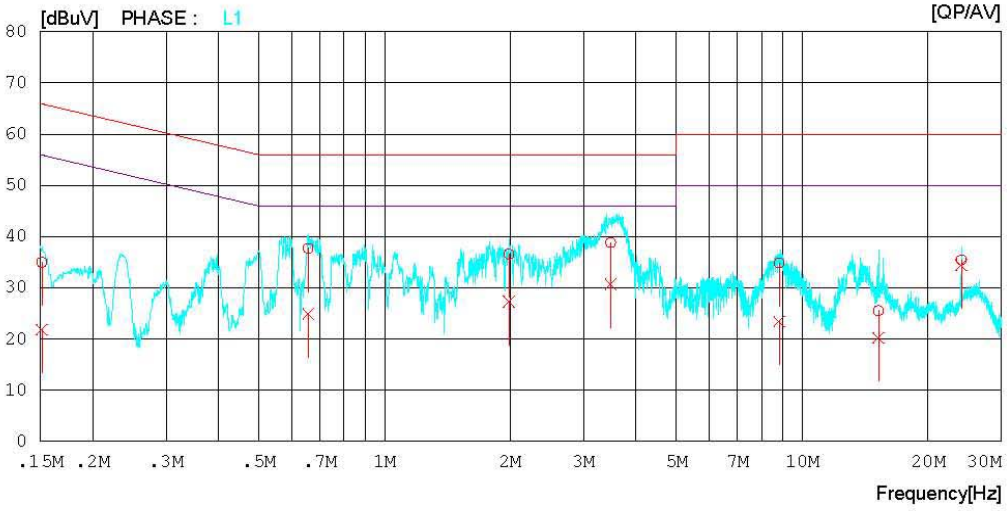
Digital EMC
Date : 2012-10-02

Model No.	:	55LS675H-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	26 'C 46 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





Results of Conducted Emission

Digital EMC
Date : 2012-10-02

Model No.	:	55LS675H-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	26 'C 46 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15061	40.6	25.5	0.2	40.8	25.7	66.0	56.0	25.2	30.3	N
2	0.59420	35.9	28.2	0.2	36.1	28.4	56.0	46.0	19.9	17.6	N
3	1.77200	39.0	26.5	0.3	39.3	26.8	56.0	46.0	16.7	19.2	N
4	3.32000	38.7	30.7	0.3	39.0	31.0	56.0	46.0	17.0	15.0	N
5	8.84400	32.9	20.8	0.7	33.6	21.5	60.0	50.0	26.4	28.5	N
6	15.67400	27.8	18.2	0.8	28.6	19.0	60.0	50.0	31.4	31.0	N
7	24.06450	35.0	34.6	1.0	36.0	35.6	60.0	50.0	24.0	14.4	N
8	0.15129	34.8	21.6	0.2	35.0	21.8	65.9	55.9	30.9	34.1	L1
9	0.65686	37.5	24.7	0.2	37.7	24.9	56.0	46.0	18.3	21.1	L1
10	1.98600	36.3	27.0	0.3	36.6	27.3	56.0	46.0	19.4	18.7	L1
11	3.47750	38.5	30.4	0.3	38.8	30.7	56.0	46.0	17.2	15.3	L1
12	8.81450	34.2	22.7	0.7	34.9	23.4	60.0	50.0	25.1	26.6	L1
13	15.22600	24.8	19.5	0.8	25.6	20.3	60.0	50.0	34.4	29.7	L1
14	24.06200	34.4	33.4	1.0	35.4	34.4	60.0	50.0	24.6	15.6	L1

< HDMI MODE >

Digital EMC

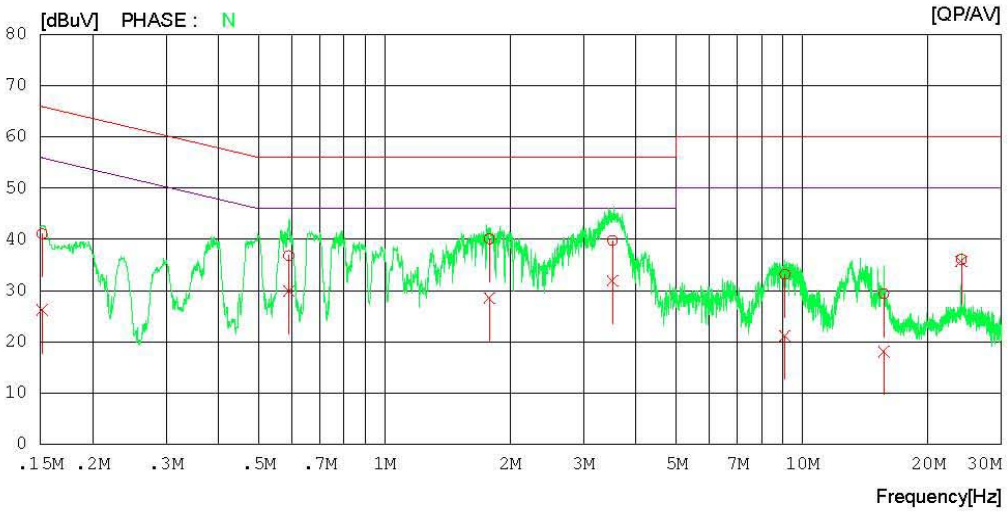
Results of Conducted Emission

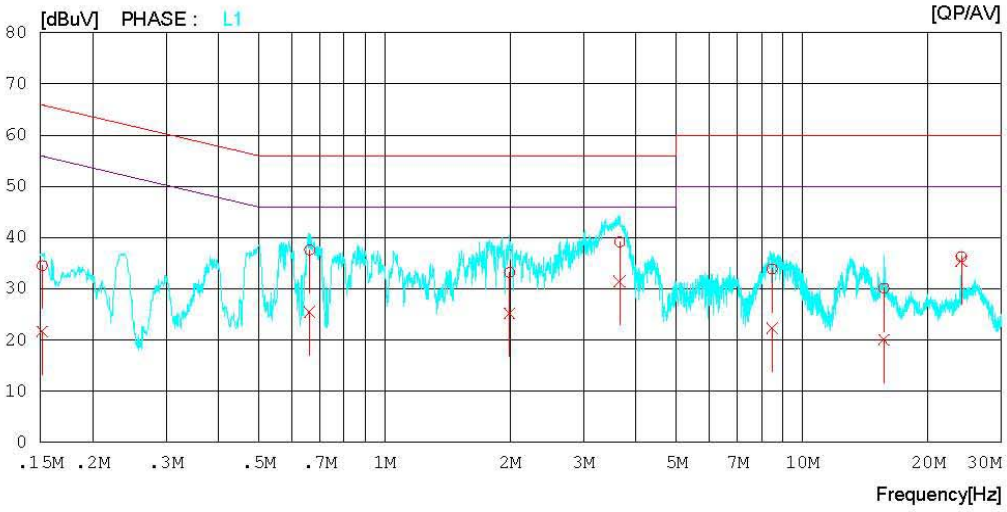
Digital EMC
Date : 2012-10-02

Model No.	:	55LS675H-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	26 'C 46 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





Results of Conducted Emission

Digital EMC
Date : 2012-10-02

Model No.	:	55LS675H-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	26 'C 46 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15150	40.9	26.0	0.2	41.1	26.2	65.9	55.9	24.8	29.7	N
2	0.59019	36.6	29.7	0.2	36.8	29.9	56.0	46.0	19.2	16.1	N
3	1.78250	39.8	28.3	0.3	40.1	28.6	56.0	46.0	15.9	17.4	N
4	3.51550	39.5	31.6	0.3	39.8	31.9	56.0	46.0	16.2	14.1	N
5	9.09500	32.5	20.5	0.7	33.2	21.2	60.0	50.0	26.8	28.8	N
6	15.68950	28.6	17.3	0.8	29.4	18.1	60.0	50.0	30.6	31.9	N
7	24.06350	35.1	34.7	1.0	36.1	35.7	60.0	50.0	23.9	14.3	N
8	0.15158	34.4	21.4	0.2	34.6	21.6	65.9	55.9	31.3	34.3	L1
9	0.66195	37.4	25.3	0.2	37.6	25.5	56.0	46.0	18.4	20.5	L1
10	1.99150	32.9	24.9	0.3	33.2	25.2	56.0	46.0	22.8	20.8	L1
11	3.65700	38.9	31.2	0.3	39.2	31.5	56.0	46.0	16.8	14.5	L1
12	8.47750	33.2	21.6	0.7	33.9	22.3	60.0	50.0	26.1	27.7	L1
13	15.70100	29.4	19.3	0.8	30.2	20.1	60.0	50.0	29.8	29.9	L1
14	24.06350	35.3	34.4	1.0	36.3	35.4	60.0	50.0	23.7	14.6	L1

< USB MODE >

Digital EMC

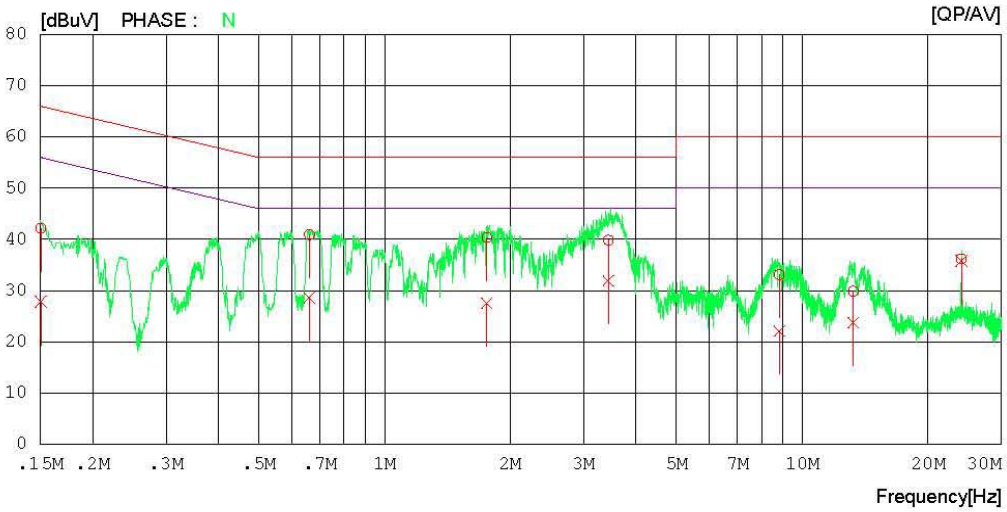
Results of Conducted Emission

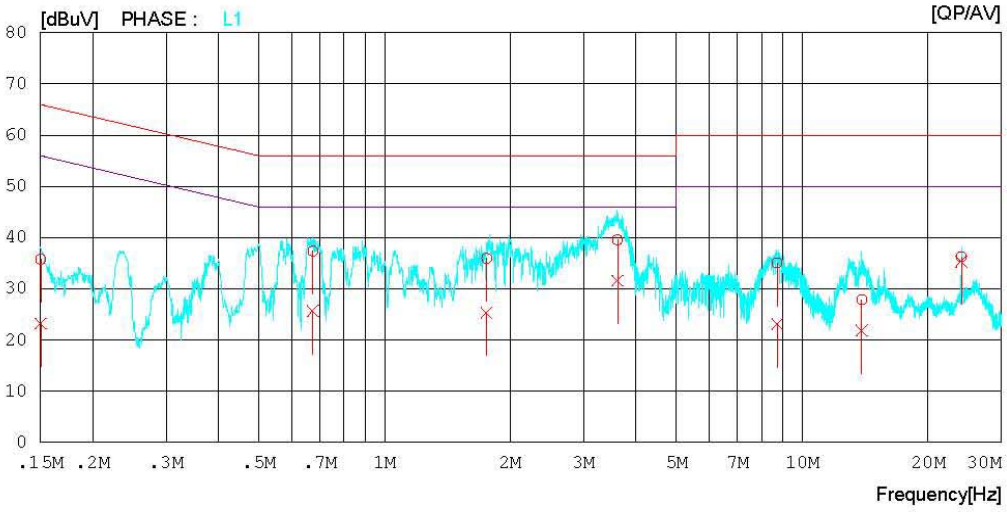
Digital EMC
Date : 2012-10-02

Model No.	:	55LS675H-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	26 'C 46 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





Results of Conducted Emission

Digital EMC
Date : 2012-10-02

Model No.	:	55LS675H-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	26 'C 46 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15043	41.9	27.7	0.2	42.1	27.9	66.0	56.0	23.9	28.1	N
2	0.66181	40.7	28.4	0.2	40.9	28.6	56.0	46.0	15.1	17.4	N
3	1.75750	40.0	27.2	0.3	40.3	27.5	56.0	46.0	15.7	18.5	N
4	3.43700	39.5	31.6	0.3	39.8	31.9	56.0	46.0	16.2	14.1	N
5	8.81400	32.4	21.4	0.7	33.1	22.1	60.0	50.0	26.9	27.9	N
6	13.25400	29.2	23.0	0.7	29.9	23.7	60.0	50.0	30.1	26.3	N
7	24.06400	35.2	34.8	1.0	36.2	35.8	60.0	50.0	23.8	14.2	N
8	0.15031	35.6	23.0	0.2	35.8	23.2	66.0	56.0	30.2	32.8	L1
9	0.67405	37.2	25.5	0.2	37.4	25.7	56.0	46.0	18.6	20.3	L1
10	1.75700	35.7	25.1	0.3	36.0	25.4	56.0	46.0	20.0	20.6	L1
11	3.61300	39.3	31.3	0.3	39.6	31.6	56.0	46.0	16.4	14.4	L1
12	8.71250	34.3	22.5	0.7	35.0	23.2	60.0	50.0	25.0	26.8	L1
13	13.89300	27.2	21.2	0.7	27.9	21.9	60.0	50.0	32.1	28.1	L1
14	24.06350	35.3	34.3	1.0	36.3	35.3	60.0	50.0	23.7	14.7	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	5th 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 >

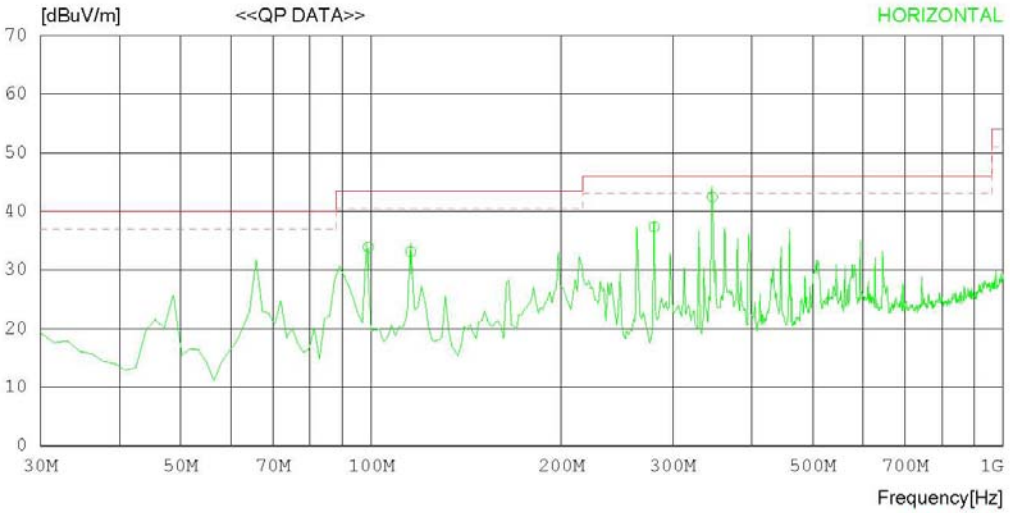
RADIATED EMISSION

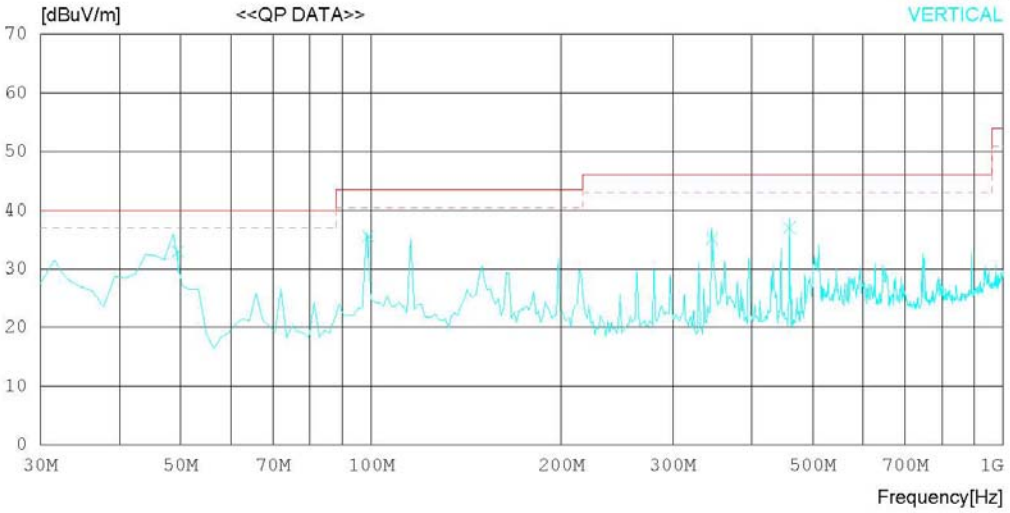
Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % R.H.
Test Condition	:	DSUB	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	99.001	44.6	10.7	1.4	22.8	33.9	43.5	9.6	301	1
2	115.505	42.3	12.2	1.5	22.9	33.1	43.5	10.4	201	135
3	280.511	45.6	12.8	2.7	23.8	37.3	46.0	8.7	100	1
4	346.512	48.9	14.3	3.3	24.1	42.4	46.0	3.6	100	1
----- Vertical ------										
5	49.552	46.2	8.3	1.3	22.8	33.0	40.0	7.0	100	204
6	99.007	46.3	10.7	1.4	22.8	35.6	43.5	7.9	100	106
7	346.512	41.7	14.3	3.3	24.1	35.2	46.0	10.8	100	358
8	459.001	41.3	16.8	3.6	24.7	37.0	46.0	9.0	199	168

< DSUB MODE _ (1 ~ 6) GHz_Peak >

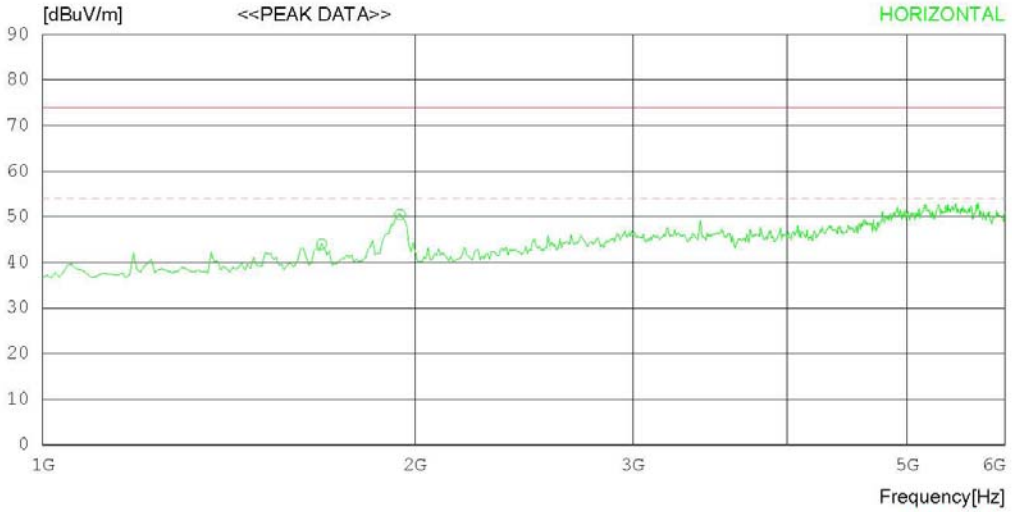
RADIATED EMISSION

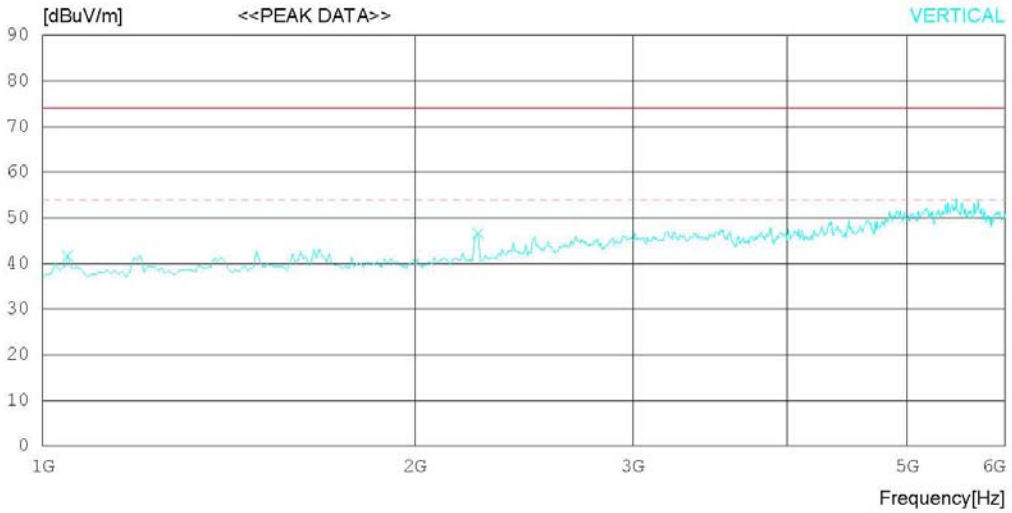
Date : 2012-10-01

Model Name	: 55LS675H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	22 'C	58 % 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)





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % 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	1681.089	53.3	24.6	7.8	41.7	44.0	74.0	30	100	1
2	1945.512	59.3	24.6	8.3	41.7	50.5	74.0	23.5	100	1
----- Vertical ------										
3	1048.077	53.6	23.9	5.9	41.8	41.6	74.0	32.4	100	138
4	2250.003	53.3	26.0	9.0	41.7	46.6	74.0	27.4	100	347

< DSUB MODE _ (1 ~ 6) GHz_Average >

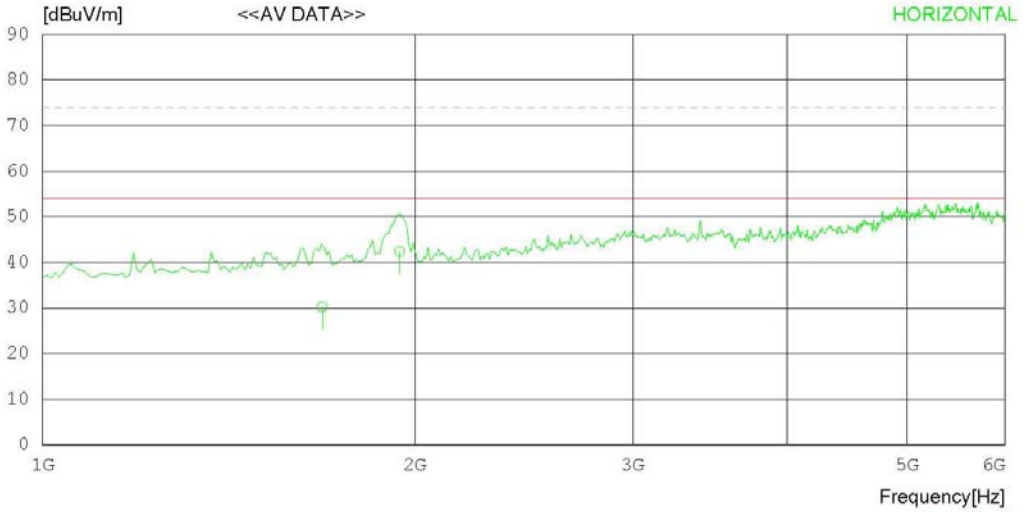
RADIATED EMISSION

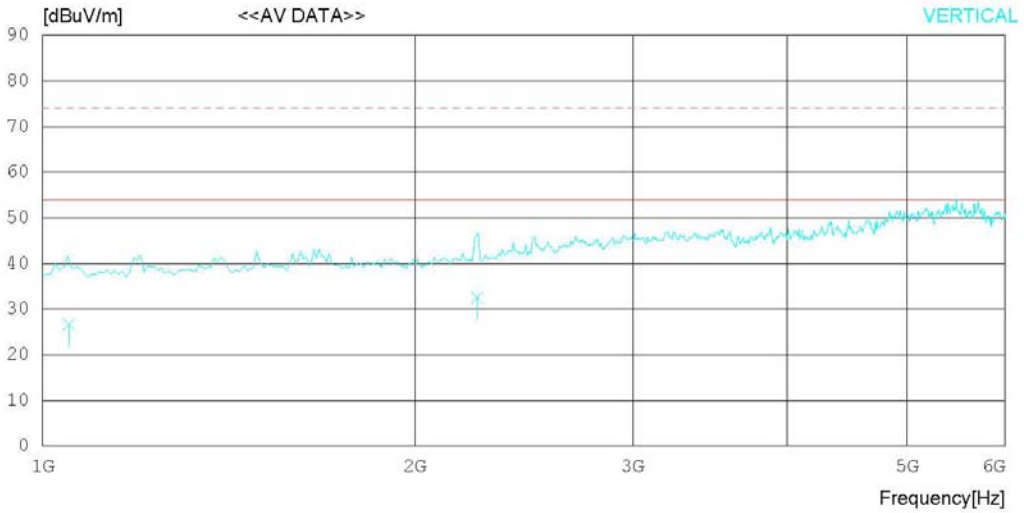
Date : 2012-10-01

Model Name	: 55LS675H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	22 'C	58 % R.H.
Test Condition	: DSUB	Operator	:		

Memo :

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





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % R.H.
Test Condition	:	DSUB	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	1683.165	39.5	24.6	7.8	41.7	30.2	54.0	23.8	100	125
2	1944.225	51.2	24.6	8.3	41.7	42.4	54.0	11.6	100	230
----- Vertical ------										
3	1050.564	38.6	23.9	5.9	41.8	26.6	54.0	27.4	100	138
4	2245.224	39.2	26.0	9.0	41.7	32.5	54.0	21.5	100	347

< HDMI MODE_30 MHz ~ 1 GHz >

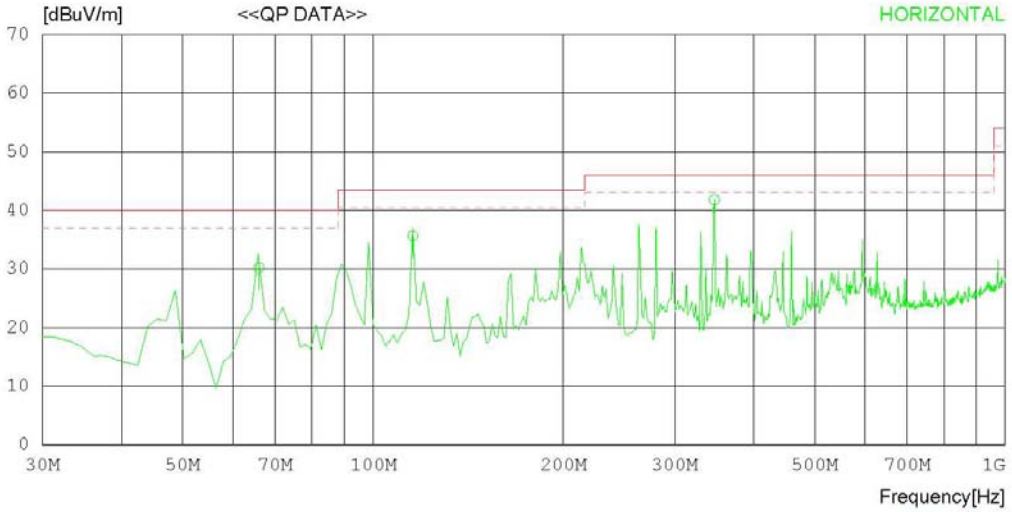
RADIATED EMISSION

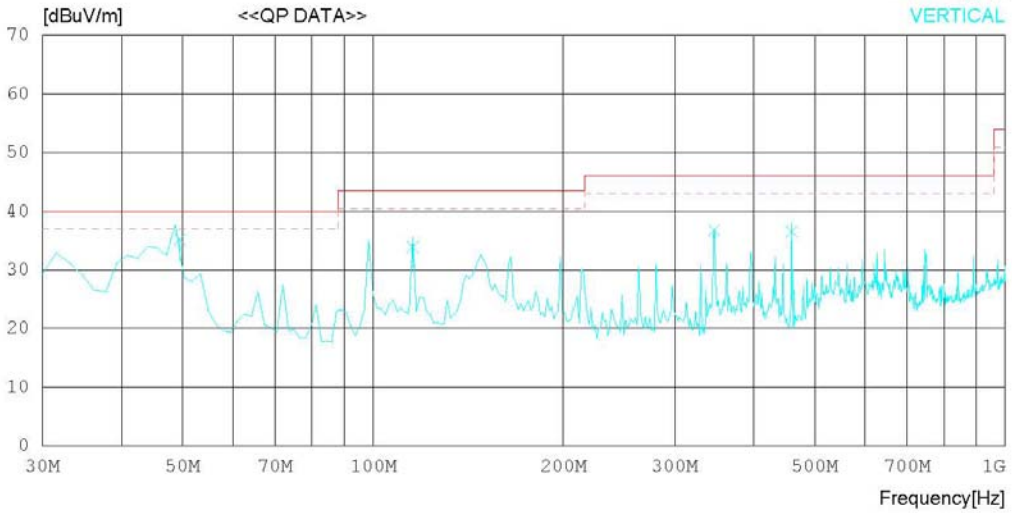
Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % 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	66.005	44.8	6.5	1.6	22.7	30.2	40.0	9.8	272	358
2	115.501	44.8	12.2	1.5	22.9	35.6	43.5	7.9	250	126
3	346.509	48.3	14.3	3.3	24.1	41.8	46.0	4.2	100	224
----- Vertical ------										
4	49.506	48.4	8.3	1.3	22.8	35.2	40.0	4.8	100	245
5	115.500	43.1	12.2	1.5	22.9	33.9	43.5	9.6	100	47
6	346.498	43.3	14.3	3.3	24.1	36.8	46.0	9.2	100	109
7	458.999	40.9	16.8	3.6	24.7	36.6	46.0	9.4	168	358

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

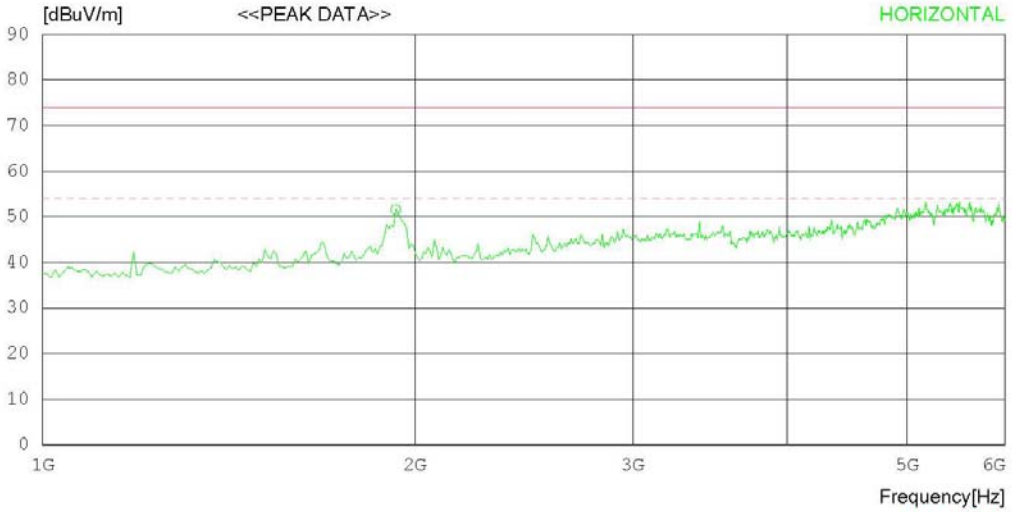
RADIATED EMISSION

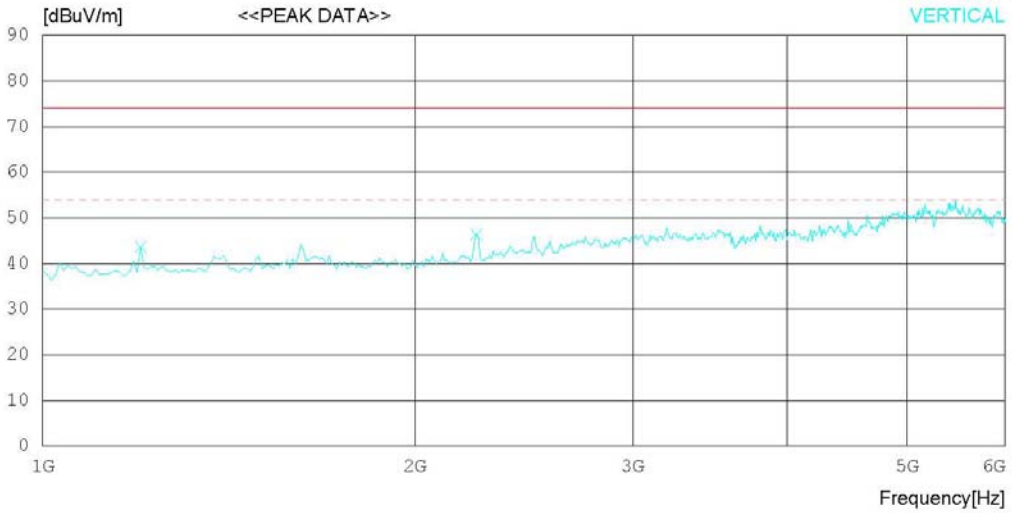
Date : 2012-10-01

Model Name	: 55LS675H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	22 'C	58 % 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)





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % 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	1929.487	60.4	24.6	8.3	41.7	51.6	74.0	22.4	100	358
----- Vertical ------										
2	1200.320	55.0	24.2	6.4	41.9	43.7	74.0	30.3	100	3
3	2241.990	53.0	26.0	9.0	41.7	46.3	74.0	27.7	100	1

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

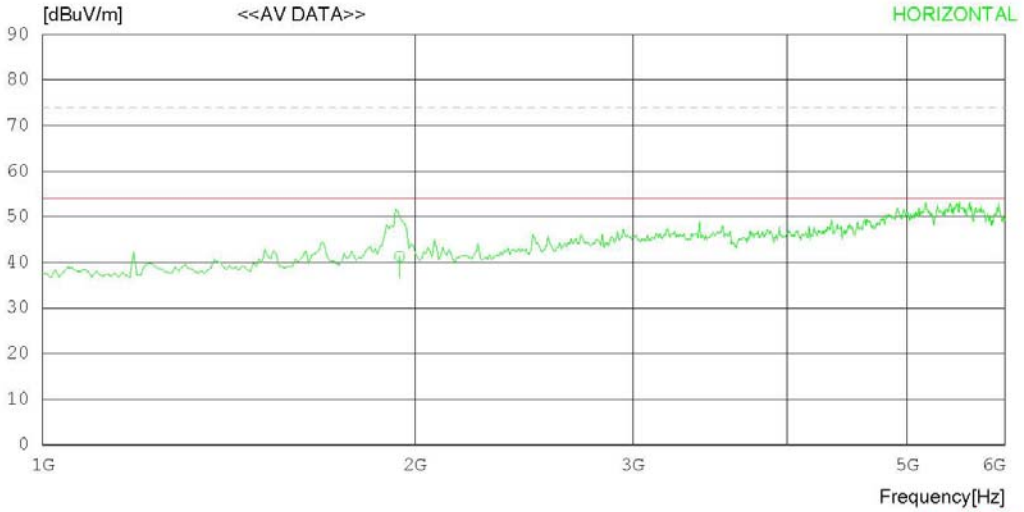
RADIATED EMISSION

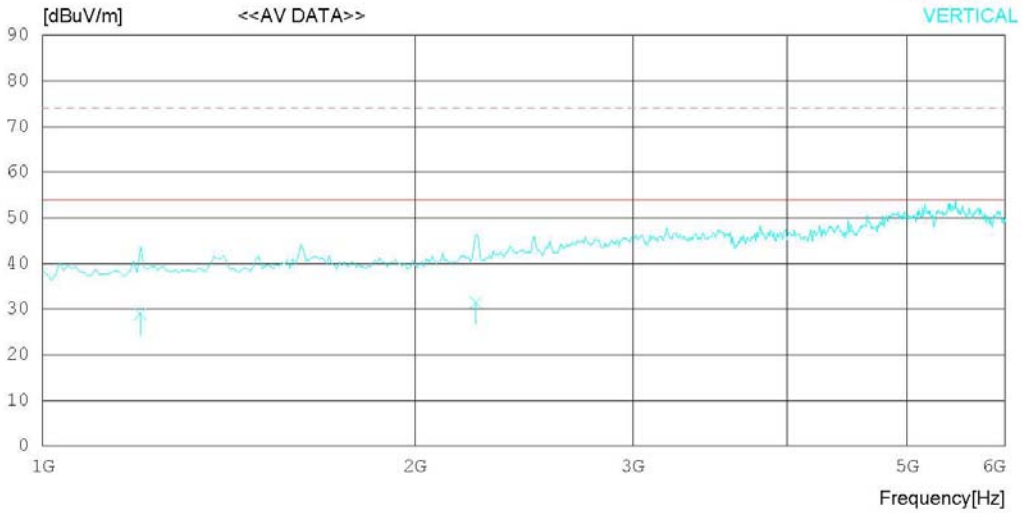
Date : 2012-10-01

Model Name	: 55LS675H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	22 'C	58 % 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)





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % 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	1943.975	50.1	24.6	8.3	41.7	41.3	54.0	12.7	100	205
----- Vertical ------										
2	1199.839	40.2	24.2	6.4	41.9	28.9	54.0	25.1	100	154
3	2240.128	38.2	25.9	9.0	41.7	31.4	54.0	22.6	100	302

< USB MODE_30 MHz ~ 1 GHz >

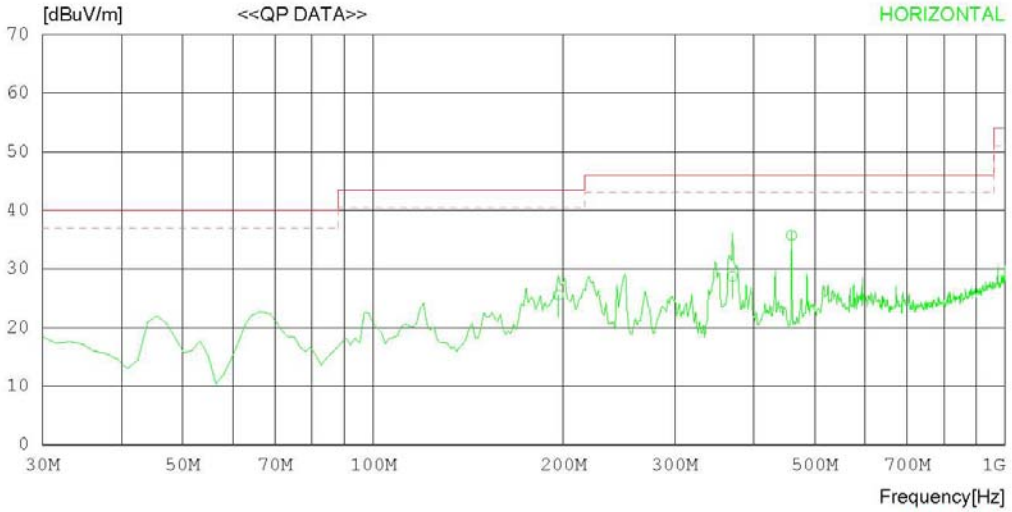
RADIATED EMISSION

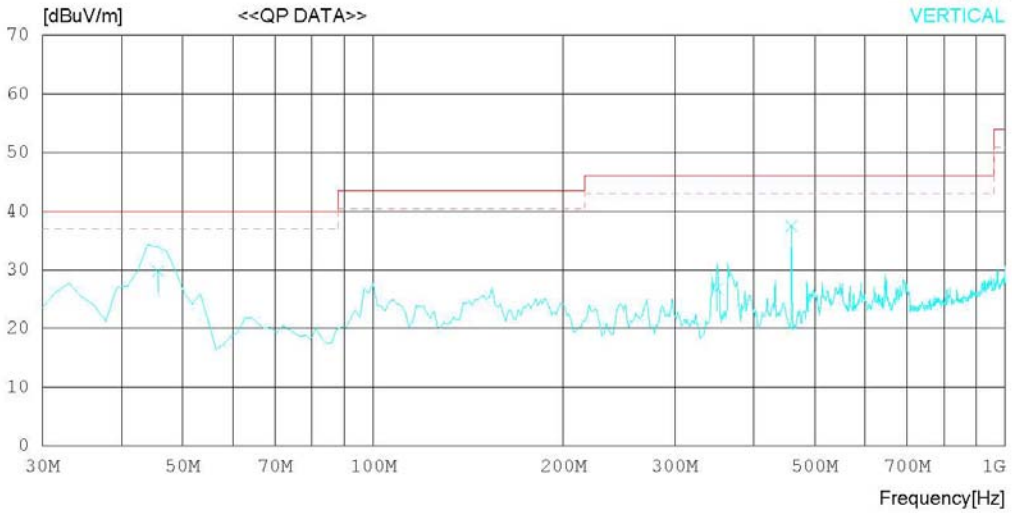
Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % 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	196.351	37.3	9.2	2.3	23.3	25.5	43.5	18.0	100	118
2	370.537	34.7	14.9	3.4	24.3	28.7	46.0	17.3	100	320
3	459.004	40.0	16.8	3.6	24.7	35.7	46.0	10.3	192	224
----- Vertical ------										
4	45.737	41.6	10.0	1.1	22.9	29.8	40.0	10.2	161	129
5	350.224	33.3	14.4	3.3	24.2	26.8	46.0	19.2	169	204
6	459.012	41.8	16.8	3.6	24.7	37.5	46.0	8.5	204	168

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

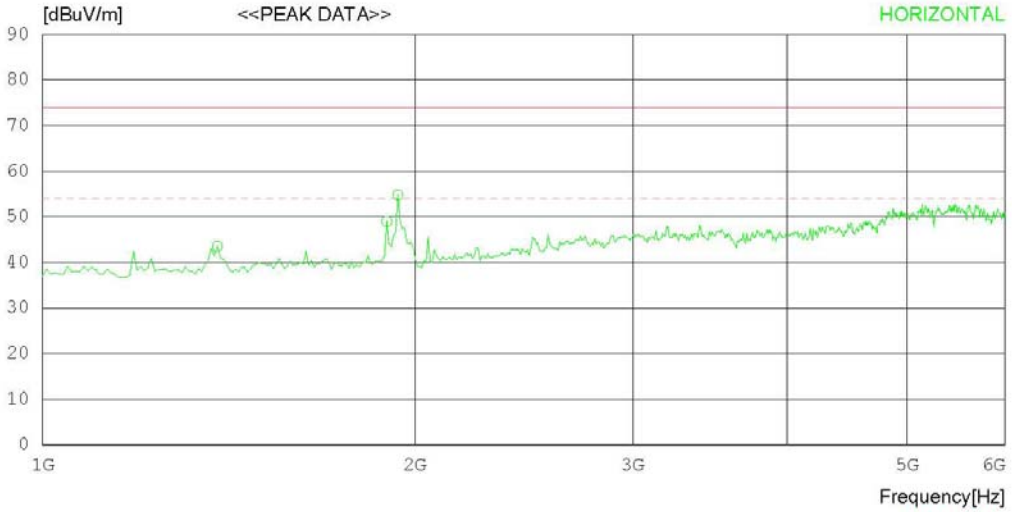
RADIATED EMISSION

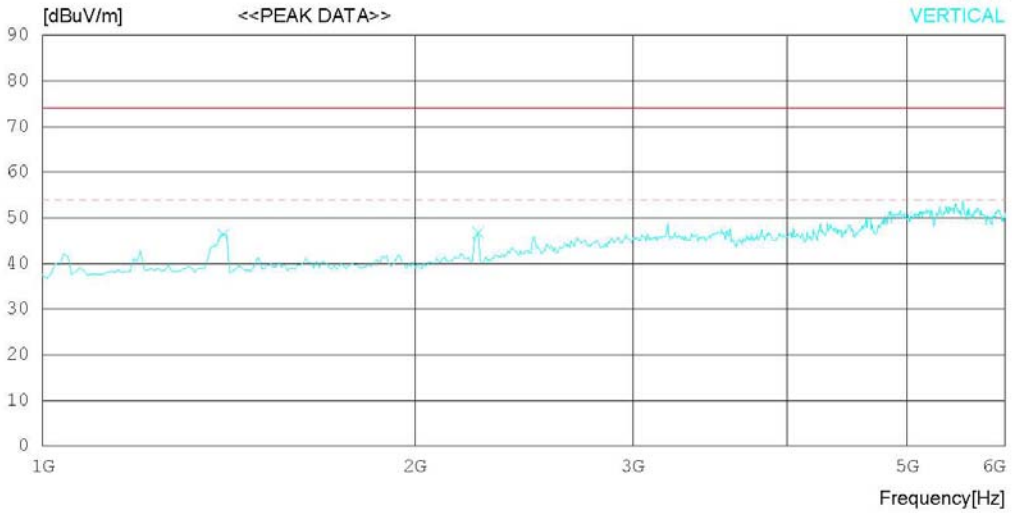
Date : 2012-10-01

Model Name	: 55LS675H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	22 'C	58 % 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)





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % 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	1384.615	53.6	24.5	7.1	41.7	43.5	74.0	30.5	100	358
2	1897.436	57.8	24.6	8.3	41.7	49.0	74.0	25	100	358
3	1937.500	63.6	24.6	8.3	41.7	54.8	74.0	19.2	100	358
----- Vertical ------										
4	1400.641	56.3	24.5	7.2	41.7	46.3	74.0	27.7	100	180
5	2250.003	53.5	26.0	9.0	41.7	46.8	74.0	27.2	100	356

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

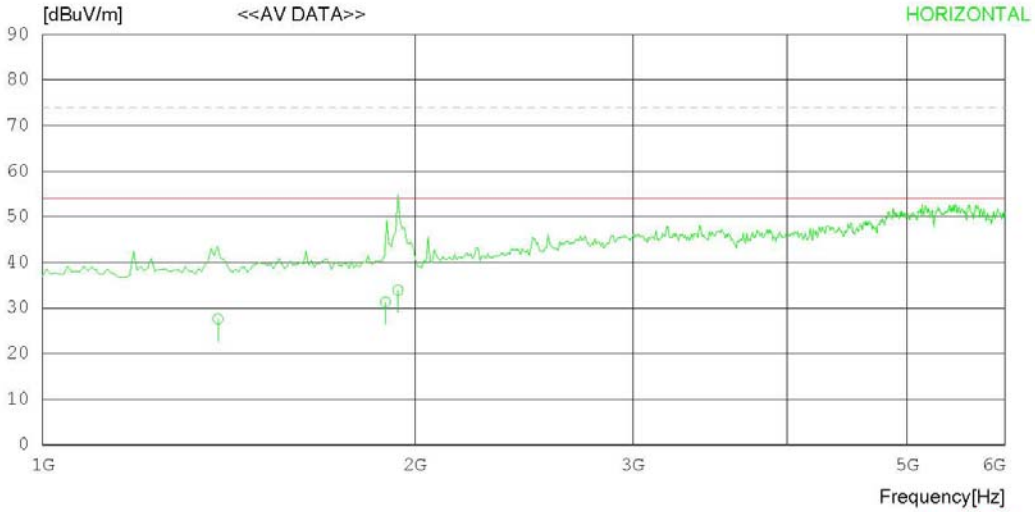
RADIATED EMISSION

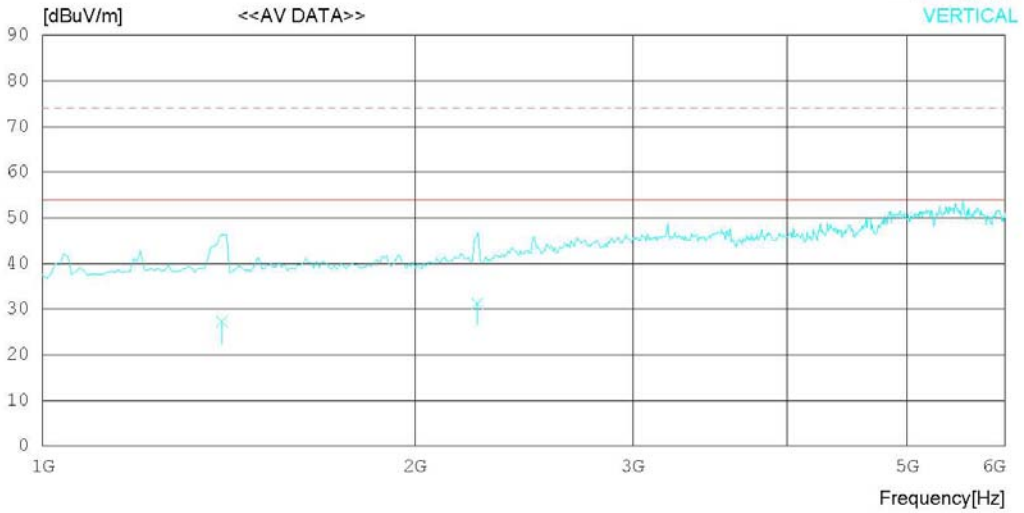
Date : 2012-10-01

Model Name	: 55LS675H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	22 'C	58 % 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)





RADIATED EMISSION

Date : 2012-10-01

Model Name	:	55LS675H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	22 'C 58 % 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	1386.083	37.7	24.5	7.1	41.7	27.6	54.0	26.4	100	358
2	1893.538	40.2	24.6	8.2	41.7	31.3	54.0	22.7	100	358
3	1937.538	42.7	24.6	8.3	41.7	33.9	54.0	20.1	100	358
----- Vertical ------										
4	1396.480	37.3	24.5	7.1	41.7	27.2	54.0	26.8	100	180
5	2246.955	37.9	26.0	9.0	41.7	31.2	54.0	22.8	100	356

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	2012.01.09	2013.01.09
☐	LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2012.03.13	2013.03.13
☐	50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09
☒	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	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	CBL6112D	SCHAFFNER	22609	2011.12.21	2012.12.21
☒	HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒	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	2012.07.11	2013.07.11
☐	AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
☐	BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.03.22	2014.03.22
☐	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