

EMC TEST REPORT

Test item : LED LCD TV monitor
Model No. : 32LQ630H-UA
Order No. : 1209-01791
Date of receipt : 2012-09-13
Test duration : 2012-09-14 ~ 2012-09-19
Use of report : FCC CoC Marking
Date of Issue : 2012-09-21

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 : 26 °C,
Humidity : 46 % 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.
This test report shall not be reproduced except in full, without the written approval of DIGITAL EMC CO., LTD.

Tested by:

A handwritten signature in black ink, appearing to read "S.W. LEE".

Engineer
S.W.LEE

Reviewed by:

A handwritten signature in black ink, appearing to read "C.H. LEE".

General Manager
C.H.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	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.	32LQ630H-UA
EUT Type	LED LCD TV monitor
Serial No	NONE
FCC ID	BEJ32LQ630HUA
Type of Sample Tested	Pre-Production
High Frequency	667 MHz
Rating	AC 100-240 V ~ 50/60 Hz, 0.7 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

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.712	60.015

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	09-19	26	46
Radiated Disturbance	09-14	26	46

4.3 Test result Summary

(1) Conducted Emission(DSUB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.69633	N	40.3	Quasi-Peak	56.0	15.7

(2) Radiated Emission(HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
855.435	H	40.9	Quasi-Peak	46.0	5.1

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 : 1360 x 768 Resolution (Worst Case)
- HDMI MODE – Resolution : 1360 x 768 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		
Pillow speaker	COMMER CIAL	7142.266	CREST	Speaker	2.0	Not use	Shield	Plastic	DOC
PC	VOSTRO 220	G3RZKBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				DSUB	1.8	Not use	Shield		
				STEREO	1.7	Not use	Non-shield		
				USB	1.8	Not use	Shield		
				PS/2	1.7	Not use	Non-shield		
				PS/2	1.8	Not use	Non-shield		
MOUSE	M-SBF96	LZ948B105WT	LOGITECH INC	PS/2	1.8	Not use	Non-shield	Plastic	DOC
KEYBOARD	SKG-210P	TAKSC12256D	MONITEREY INTERNATIONAL CORP.	PS/2	1.7	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS.	COMPOSITE	1.0	Not use	Non-shield	Plastic	VER
PRINTER	SRP-770	N/A	BIXOLON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	Shield		

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

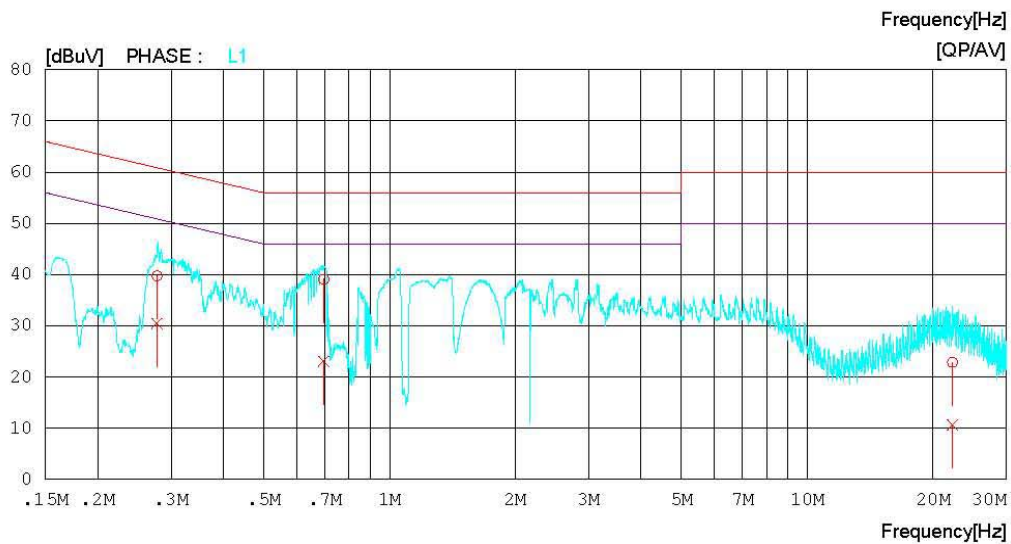
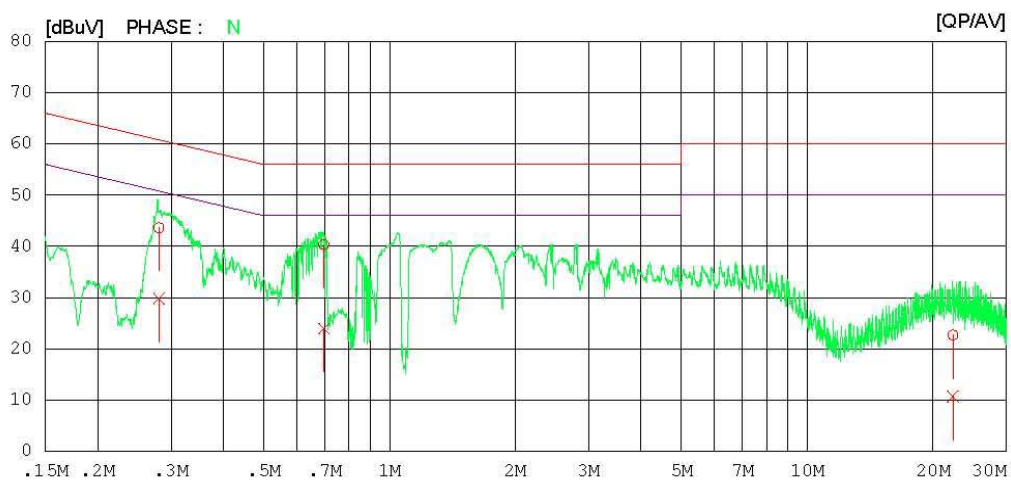
Digital EMC
Date : 2012-09-19

Model No. : 32LQ630H-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 26 °C 46 %R.H.
Operator :

Memo : DSUB

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-09-19

Model No. : 32LQ630H-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 26 °C 46 %R.H.
Operator :

Memo : DSUB

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	0.28045	43.4	29.6	0.2	43.6	29.8	60.8	50.8	17.2	21.0	N
2	0.69633	40.1	23.7	0.2	40.3	23.9	56.0	46.0	15.7	22.1	N
3	22.33850	21.5	9.5	1.2	22.7	10.7	60.0	50.0	37.3	39.3	N
4	0.27771	39.6	30.3	0.2	39.8	30.5	60.9	50.9	21.1	20.4	L1
5	0.69644	38.9	22.9	0.2	39.1	23.1	56.0	46.0	16.9	22.9	L1
6	22.28000	21.7	9.5	1.2	22.9	10.7	60.0	50.0	37.1	39.3	L1

< HDMI MODE >



Results of Conducted Emission

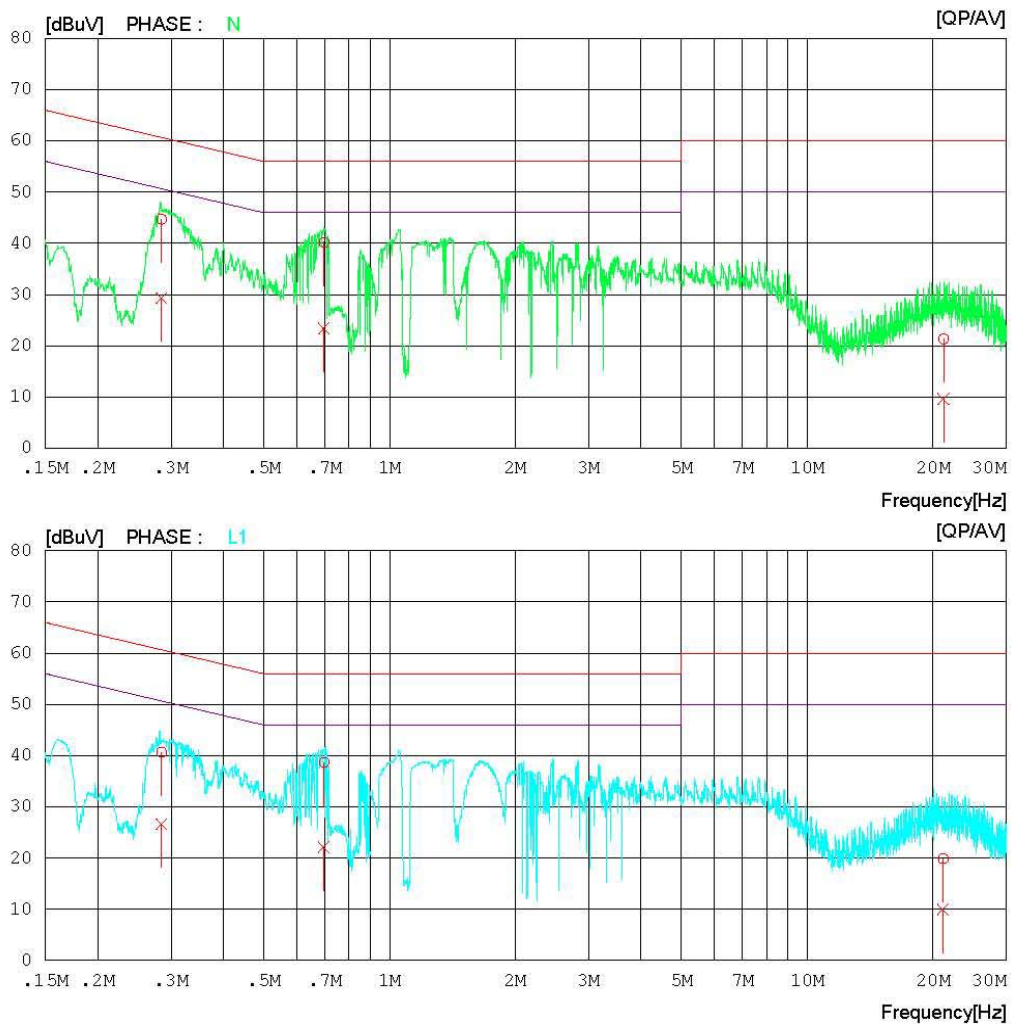
Digital EMC
Date : 2012-09-19

Model No. : 32LQ630H-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 26 °C 46 %R.H.
Operator :

Memo : HDMI

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-09-19

Model No. : 32LQ630H-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 26 °C 46 %R.H.
Operator :

Memo : HDMI

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	0.28450	44.5	29.1	0.2	44.7	29.3	60.7	50.7	16.0	21.4	N
2	0.69734	40.0	23.2	0.2	40.2	23.4	56.0	46.0	15.8	22.6	N
3	21.22250	20.1	8.4	1.2	21.3	9.6	60.0	50.0	38.7	40.4	N
4	0.28450	40.4	26.4	0.2	40.6	26.6	60.7	50.7	20.1	24.1	L1
5	0.69699	38.5	21.9	0.2	38.7	22.1	56.0	46.0	17.3	23.9	L1
6	21.17200	18.7	8.8	1.2	19.9	10.0	60.0	50.0	40.1	40.0	L1

< USB MODE >



Results of Conducted Emission

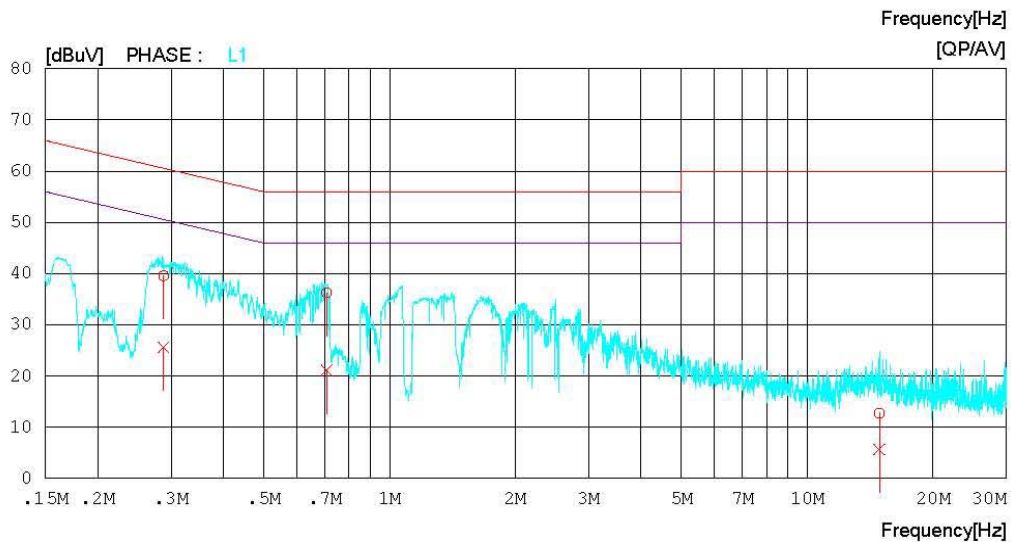
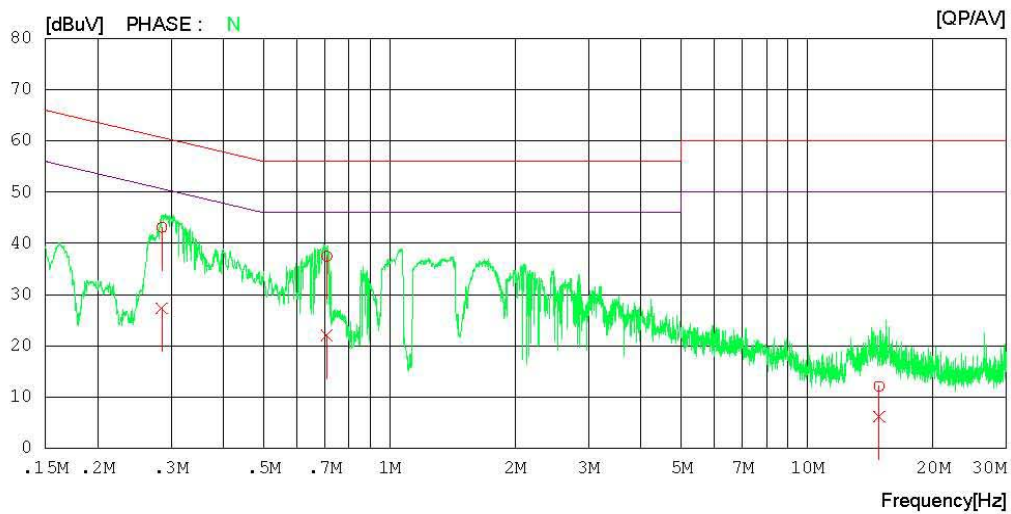
Digital EMC
Date : 2012-09-19

Model No. : 32LQ630H-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 26 °C 46 %R.H.
Operator :

Memo : USB

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-09-19

Model No. : 32LQ630H-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 26 °C 46 %R.H.
Operator :

Memo : USB

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	0.28531	42.9	27.1	0.2	43.1	27.3	60.7	50.7	17.6	23.4	N
2	0.70750	37.3	21.8	0.2	37.5	22.0	56.0	46.0	18.5	24.0	N
3	14.86800	11.2	5.3	0.9	12.1	6.2	60.0	50.0	47.9	43.8	N
4	0.28770	39.4	25.4	0.2	39.6	25.6	60.6	50.6	21.0	25.0	L1
5	0.70721	36.0	20.9	0.2	36.2	21.1	56.0	46.0	19.8	24.9	L1
6	14.89300	11.9	4.8	0.9	12.8	5.7	60.0	50.0	47.2	44.3	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

< DSUB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

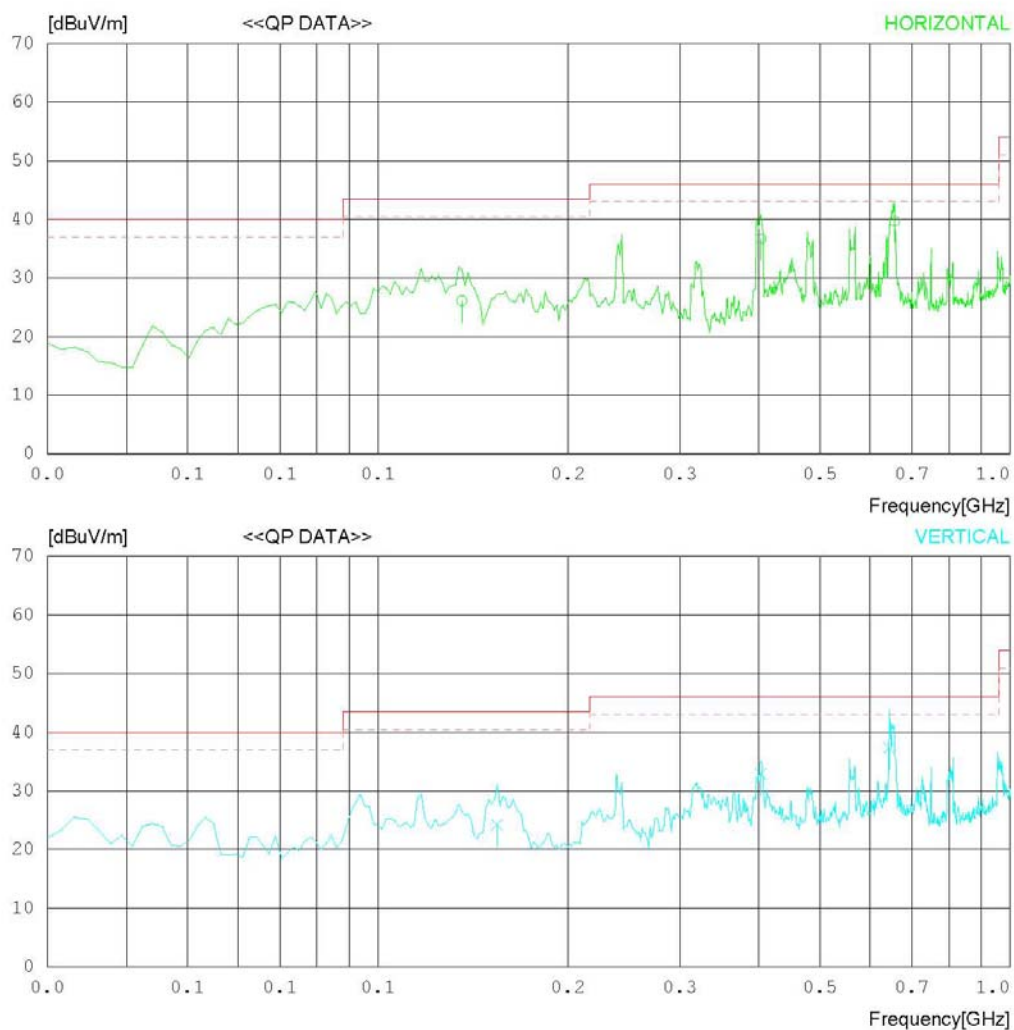
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :

Memo : DSUB

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	135.705	36.0	11.5	1.6	23.0	26.1	43.5	17.4	201	148
2	403.076	42.0	15.7	3.5	24.5	36.7	46.0	9.3	100	223
3	656.458	41.2	18.8	4.2	24.5	39.7	46.0	6.3	201	359
----- Vertical -----										
4	154.359	35.2	10.3	1.8	23.1	24.2	43.5	19.3	199	208
5	403.076	38.2	15.7	3.5	24.5	32.9	46.0	13.1	100	1
6	644.022	38.9	18.8	4.2	24.5	37.4	46.0	8.6	100	1

< DSUB MODE _ (1 ~ 6) GHz_Peak >

RADIATED EMISSION

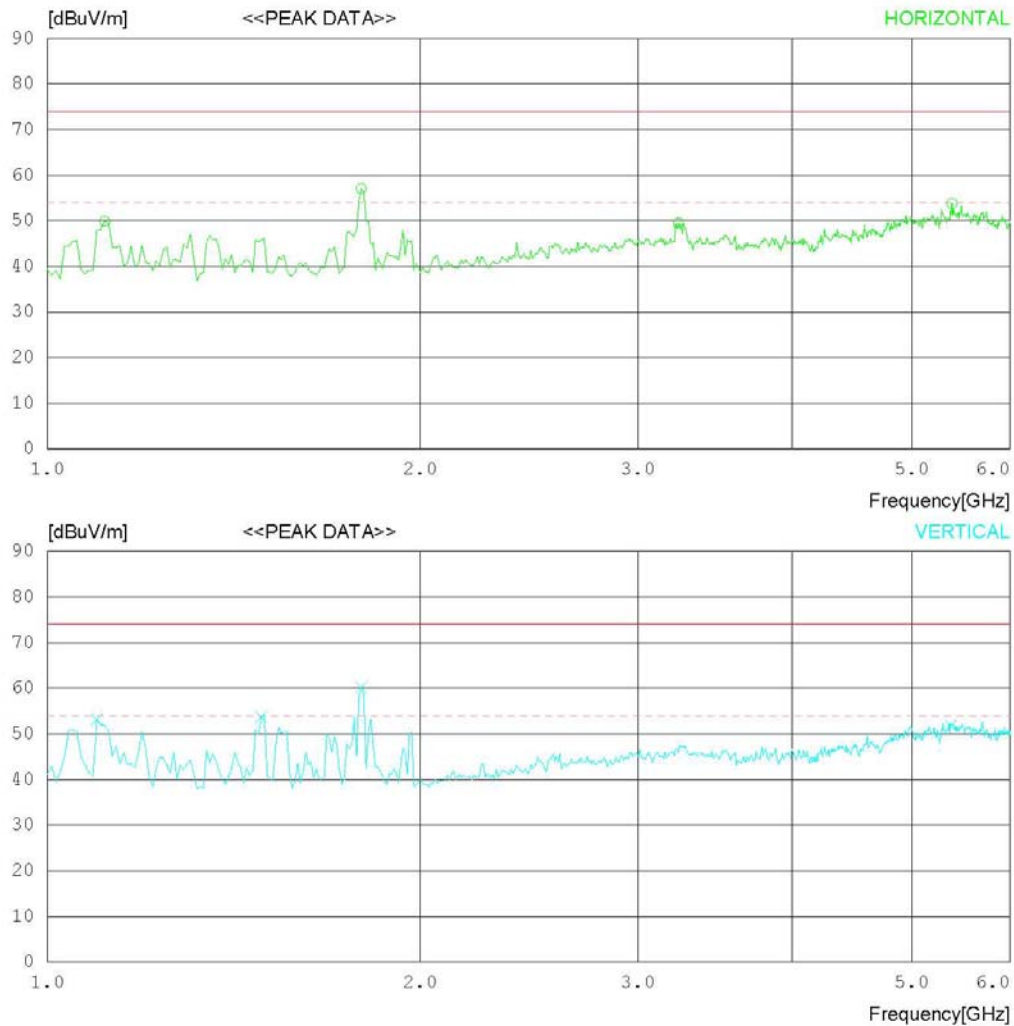
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :
Memo : DSUB	

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	61.6	24.0	6.1	41.8	49.9	74.0	24.1	100	358
2	1793.269	66.2	24.6	8.1	41.8	57.1	74.0	16.9	100	358
3	3235.594	51.3	28.9	11.1	41.8	49.5	74.0	24.5	100	243
4	5383.023	46.7	34.5	15.0	42.4	53.8	74.0	20.2	100	318
----- Vertical -----										
5	1096.154	64.9	24.0	6.1	41.8	53.2	74.0	20.8	100	220
6	1488.782	63.2	24.6	7.5	41.6	53.7	74.0	20.3	100	203
7	1793.269	69.4	24.6	8.1	41.8	60.3	74.0	13.7	100	1
8	5375.010	44.8	34.4	15.0	42.4	51.8	74.0	22.2	100	100

< DSUB MODE _ (1 ~ 6) GHz_Average >

RADIATED EMISSION

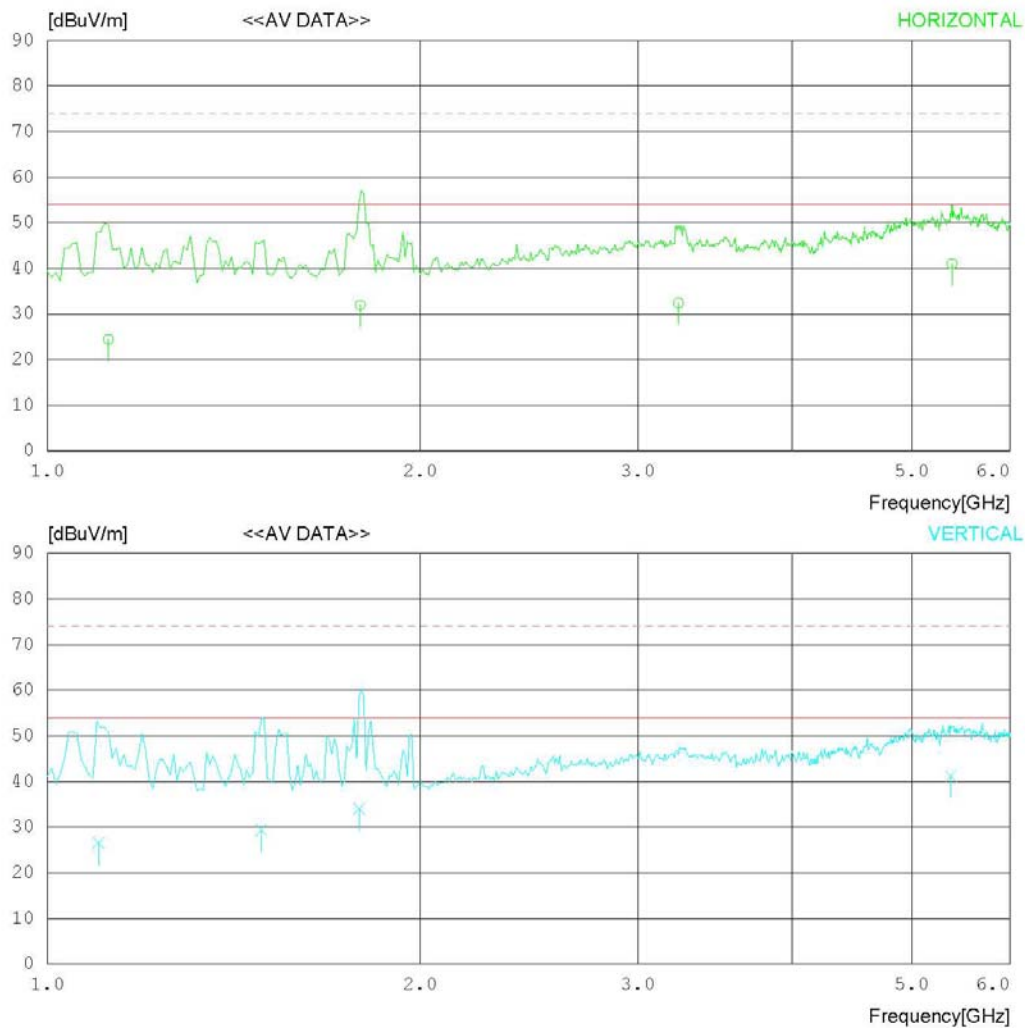
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :
Memo : DSUB	

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	1119.750	36.0	24.1	6.2	41.8	24.5	54.0	29.5	100	358
2	1789.250	41.2	24.6	8.0	41.8	32.0	54.0	22.0	100	358
3	3235.594	34.2	28.9	11.1	41.8	32.4	54.0	21.6	100	243
4	5383.023	33.9	34.5	15.0	42.4	41.0	54.0	13.0	100	318
----- Vertical -----										
5	1099.779	38.2	24.0	6.1	41.8	26.5	54.0	27.5	100	220
6	1488.782	38.9	24.6	7.5	41.6	29.4	54.0	24.6	100	203
7	1787.010	43.2	24.6	8.0	41.8	34.0	54.0	20.0	100	1
8	5375.010	34.2	34.4	15.0	42.4	41.2	54.0	12.8	100	100

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

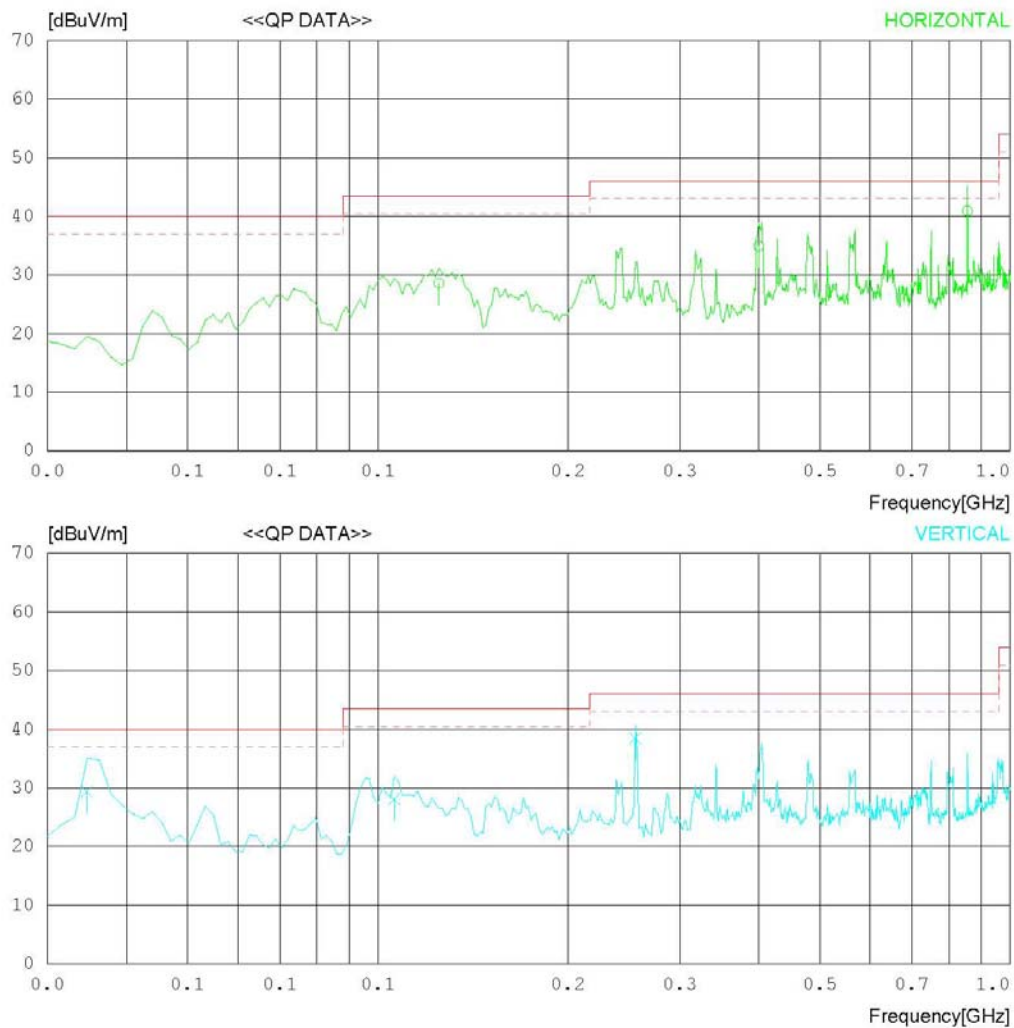
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : HDMI

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : HDMI

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	124.824	37.8	12.2	1.5	22.9	28.6	43.5	14.9	201	202
2	399.967	40.2	15.7	3.5	24.5	34.9	46.0	11.1	100	227
3	855.435	39.0	20.4	4.9	23.4	40.9	46.0	5.1	201	0
----- Vertical -----										
4	34.663	35.2	16.2	1.1	23.1	29.4	40.0	10.6	400	92
5	106.170	38.0	11.4	1.5	22.8	28.1	43.5	15.4	100	358
6	255.401	47.1	12.4	2.6	23.6	38.5	46.0	7.5	100	358

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

RADIATED EMISSION

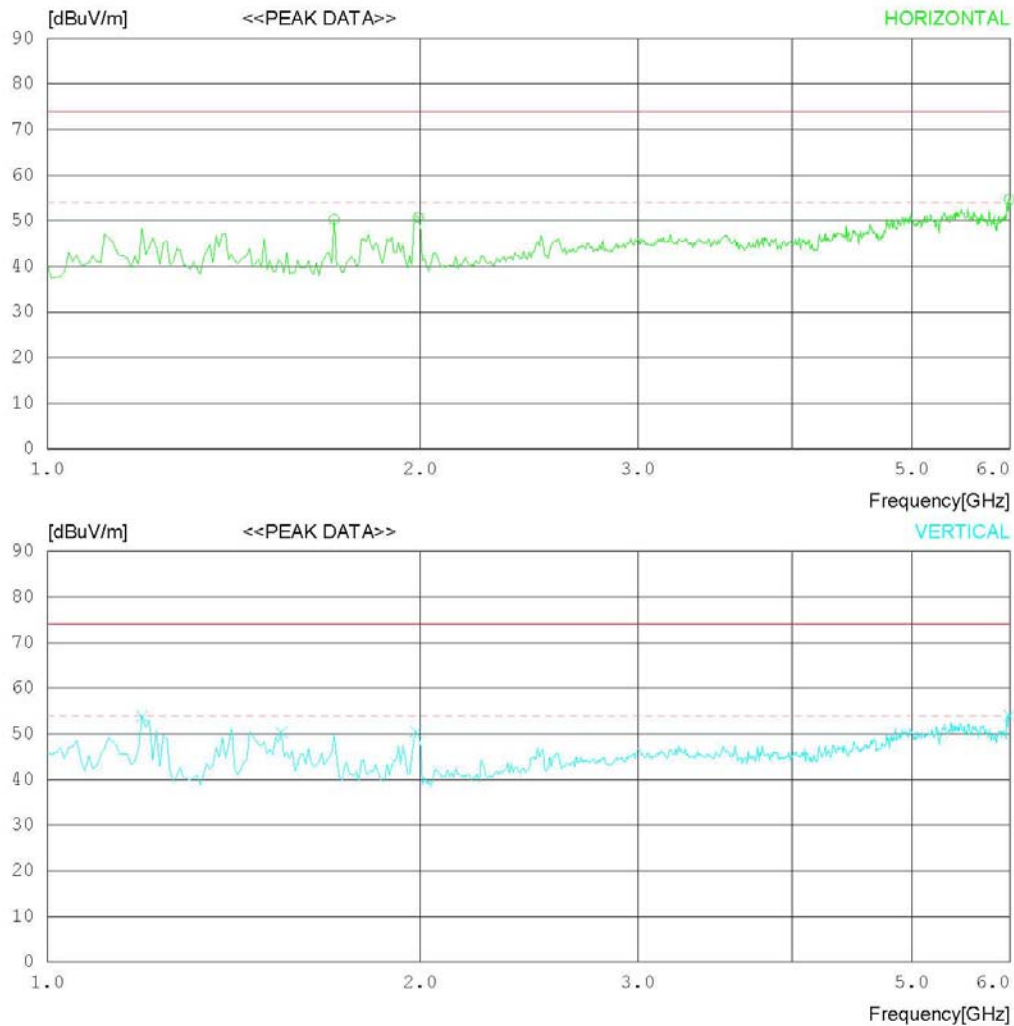
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : HDMI

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :
Memo : HDMI	

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	1705.128	59.5	24.6	7.9	41.7	50.3	74.0	23.7	100	225
2	1993.589	59.4	24.6	8.4	41.7	50.7	74.0	23.3	100	353
3	5991.988	49.1	31.9	15.8	42.1	54.7	74.0	19.3	100	358
----- Vertical -----										
4	1192.308	65.1	24.2	6.4	41.9	53.8	74.0	20.2	100	211
5	1544.872	59.8	24.6	7.6	41.6	50.4	74.0	23.6	100	211
6	1985.577	59.2	24.6	8.4	41.7	50.5	74.0	23.5	100	1
7	6000.000	48.5	31.8	15.8	42.1	54.0	74.0	20	100	34

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

RADIATED EMISSION

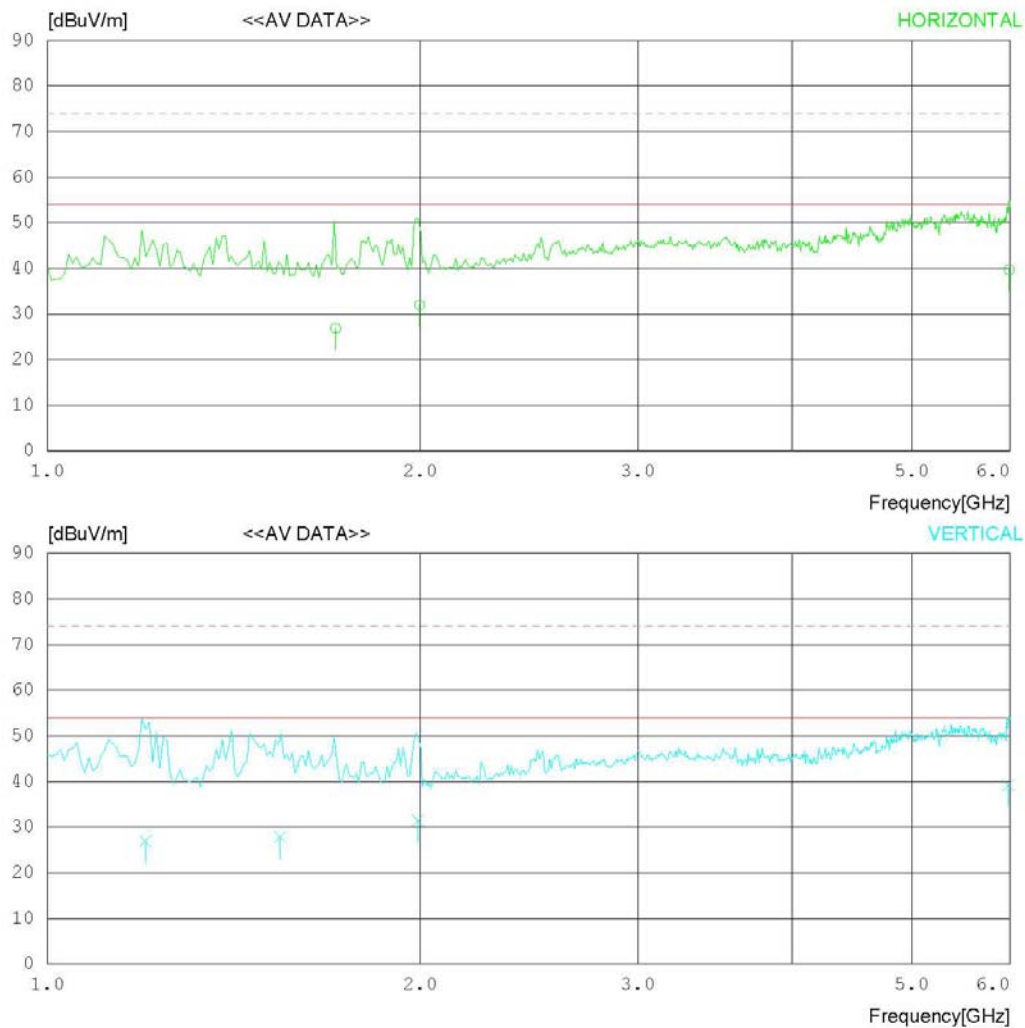
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : HDMI

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :

Memo : HDMI

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	1709.220	36.0	24.6	7.9	41.7	26.8	54.0	27.2	100	225
2	1998.250	40.7	24.6	8.4	41.7	32.0	54.0	22.0	100	353
3	5991.988	34.1	31.9	15.8	42.1	39.7	54.0	14.3	100	358
----- Vertical -----										
4	1199.258	38.2	24.2	6.4	41.9	26.9	54.0	27.1	100	211
5	1542.170	37.2	24.6	7.6	41.6	27.8	54.0	26.2	100	211
6	1992.140	40.1	24.6	8.4	41.7	31.4	54.0	22.6	100	1
7	5978.250	33.5	32.0	15.8	42.1	39.2	54.0	14.8	100	34

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

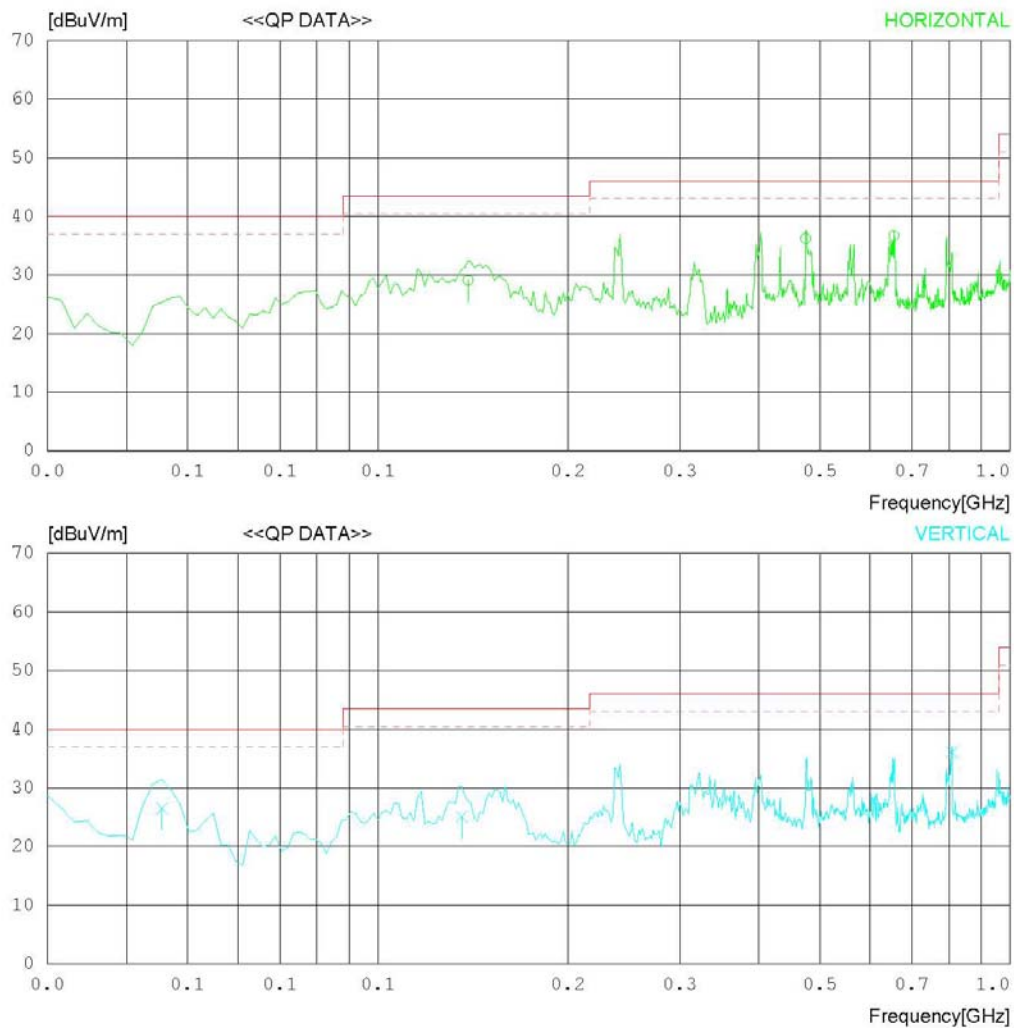
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : USB

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :

Memo : USB

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	138.814	39.1	11.3	1.7	23.0	29.1	43.5	14.4	201	195
2	474.582	40.2	17.0	3.7	24.7	36.2	46.0	9.8	100	358
3	654.904	38.2	18.8	4.2	24.5	36.7	46.0	9.3	201	238
----- Vertical -----										
4	45.545	38.2	10.1	1.1	22.9	26.5	40.0	13.5	199	358
5	135.705	35.0	11.5	1.6	23.0	25.1	43.5	18.4	199	358
6	808.799	35.0	20.0	4.8	23.7	36.1	46.0	9.9	100	189

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

RADIATED EMISSION

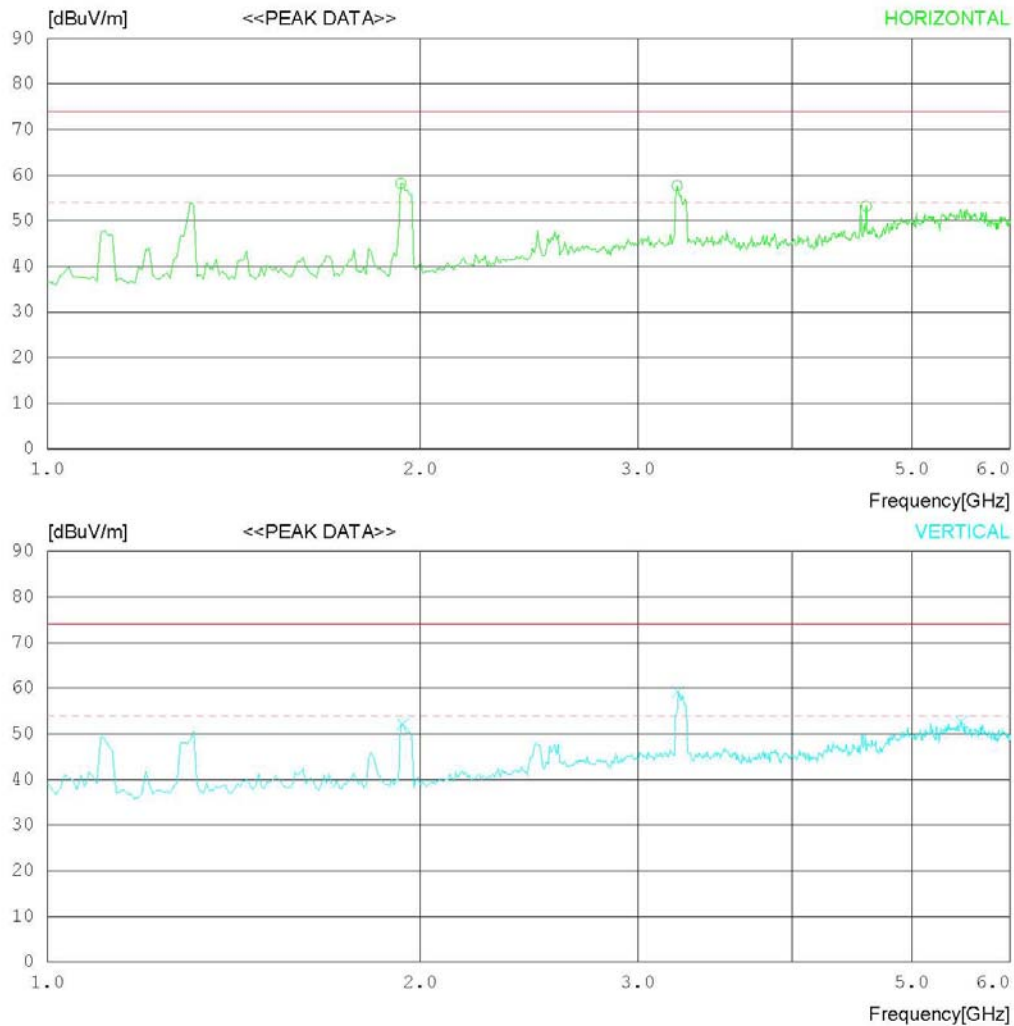
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : USB

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :
Memo : USB	

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	67.0	24.6	8.3	41.7	58.2	74.0	15.8	100	1
2	3227.581	59.5	28.9	11.1	41.8	57.7	74.0	16.3	100	1
3	4589.766	50.1	31.2	13.8	41.9	53.2	74.0	20.8	100	222
----- Vertical -----										
4	1937.500	60.9	24.6	8.3	41.7	52.1	74.0	21.9	100	147
5	3235.594	61.0	28.9	11.1	41.8	59.2	74.0	14.8	100	209
6	5479.175	45.5	35.0	14.9	42.7	52.7	74.0	21.3	100	268

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

RADIATED EMISSION

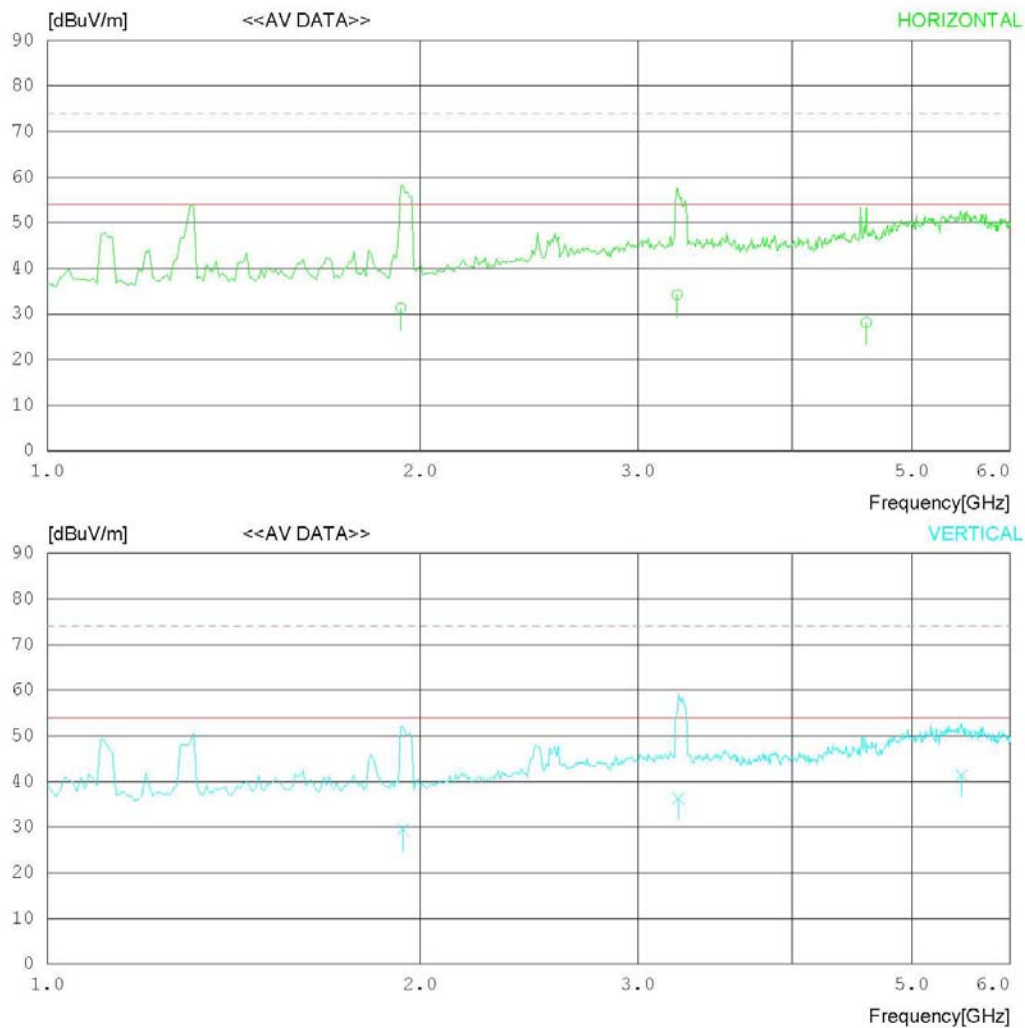
Date : 2012-09-14

Model Name : 32LQ630H-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 26 °C 46 % R.H.
Operator :

Memo : USB

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



RADIATED EMISSION

Date : 2012-09-14

Model Name : 32LQ630H-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 26 °C 46 % R.H.
Test Condition :	Operator :
Memo : USB	

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	1930.100	40.1	24.6	8.3	41.7	31.3	54.0	22.7	100	1
2	3227.581	36.0	28.9	11.1	41.8	34.2	54.0	19.8	100	1
3	4589.766	25.0	31.2	13.8	41.9	28.1	54.0	25.9	100	222
----- Vertical -----										
4	1937.500	38.2	24.6	8.3	41.7	29.4	54.0	24.6	100	147
5	3235.594	38.1	28.9	11.1	41.8	36.3	54.0	17.7	100	209
6	5479.175	34.2	35.0	14.9	42.7	41.4	54.0	12.6	100	268

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	2011.09.30	2012.09.30
☒ 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