EMC TEST REPORT

Test item	: LED LCD TV monitor
Model No.	: 32LT560C-UA
Order No.	: 1207-01293
Date of receipt	: 2012-07-26
Test duration	: 2012-07-29 ~ 2012-08-01
Use of report	: FCC CoC Marking
Date of Issue	: 2012-08-02

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 : (24 ~ 26) °C,
Humidity : (50 ~ 55) % R.H.

Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose.
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Tested by:

Engineer
H.J.KIM

Reviewed by:

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.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".

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3. General Information of EUT

Model No.	32LT560C-UA
EUT Type	LED LCD TV monitor
Serial No	N/A
FCC ID	BEJ32LT560CUA
Type of Sample Tested	Pre-Production
High Frequency	667 MHz
Rating	AC 100-240 V, ~ 50/60 Hz
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)
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1360x768	47.712	60.015

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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	07-29	26	50
Radiated Disturbance	08-01 08-01	24 26	55 54

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.33585	**LI**	**41.7**	Quasi-Peak	**59.3**	**17.6**

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
637.804	**H**	**42.9**	Quasi-Peak	**46.0**	**3.1**

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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)	shield		
PC	DCSCMF	G3RZKBX	DELL	POWER HDMI DSUB USB USB USB	1.8 1.8 1.8 1.8 1.8 1.5	Non-shield Shield Shield Shield Shield Shield	Plastic	DOC
KEYBOARD	SKG-3000UB	TAKB24503Y	MONITEREY INTERNATIONAL CORP	USB	1.8	Shield	Plastic	DOC
MOUSE	SML-510PB	TAKS903519Z	MONITEREY INTERNATIONAL CORP	USB	1.8	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER AV	1.8 1.6	Non-shield Non-shield	Plastic	VER
USB MEMORY	JEWERLY	N/A	AXXEN	USB	-	-	-	DOC
PRINTER	SRP-770	SRP77008060035	BIXOLON	USB	1.8	Shield	Plastic	DOC

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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

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Test Result

< DSUB MODE >

Digital EMC

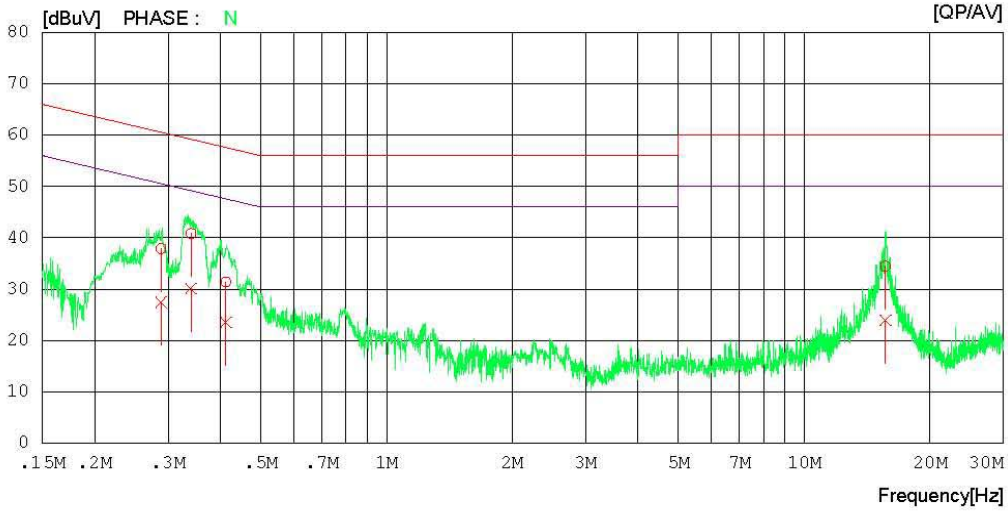
Results of Conducted Emission

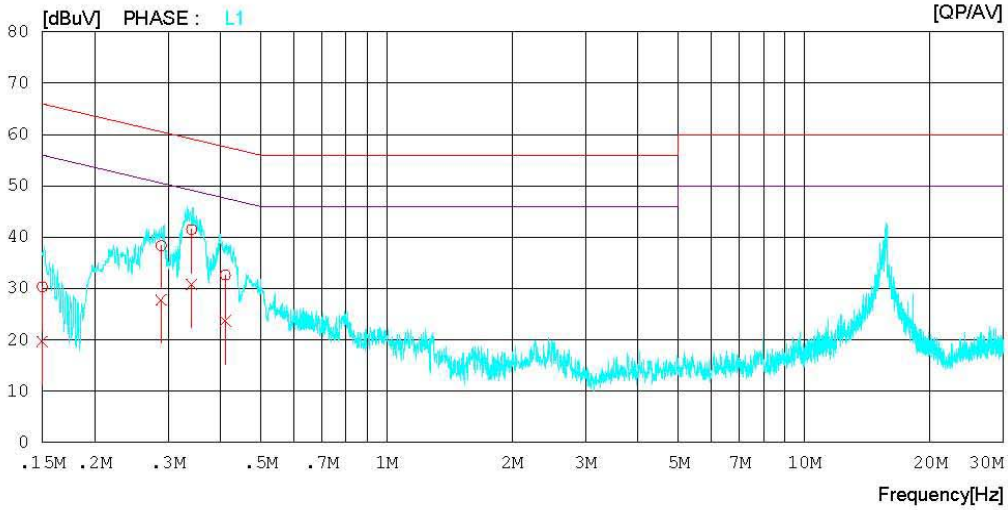
Digital EMC
Date : 2012-07-29

Model No.	:	32LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	26 'C 50 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2012-07-29

Model No.	:	32LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	26 'C 50 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.28871	37.6	27.2	0.2	37.8	27.4	60.6	50.6	22.8	23.2	N
2	0.34055	40.5	29.8	0.3	40.8	30.1	59.2	49.2	18.4	19.1	N
3	0.41220	31.1	23.2	0.3	31.4	23.5	57.6	47.6	26.2	24.1	N
4	15.64350	33.5	23.0	1.0	34.5	24.0	60.0	50.0	25.5	26.0	N
5	0.15000	30.0	19.4	0.3	30.3	19.7	66.0	56.0	35.7	36.3	L1
6	0.28883	38.2	27.6	0.2	38.4	27.8	60.6	50.6	22.2	22.8	L1
7	0.34138	41.2	30.5	0.3	41.5	30.8	59.2	49.2	17.7	18.4	L1
8	0.41145	32.3	23.4	0.3	32.6	23.7	57.6	47.6	25.0	23.9	L1

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< HDMI MODE >

Digital EMC

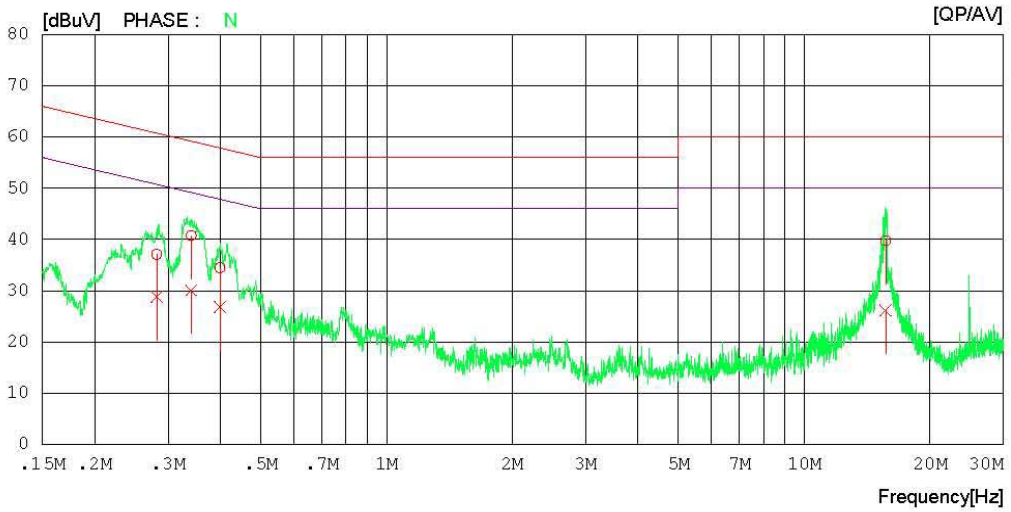
Results of Conducted Emission

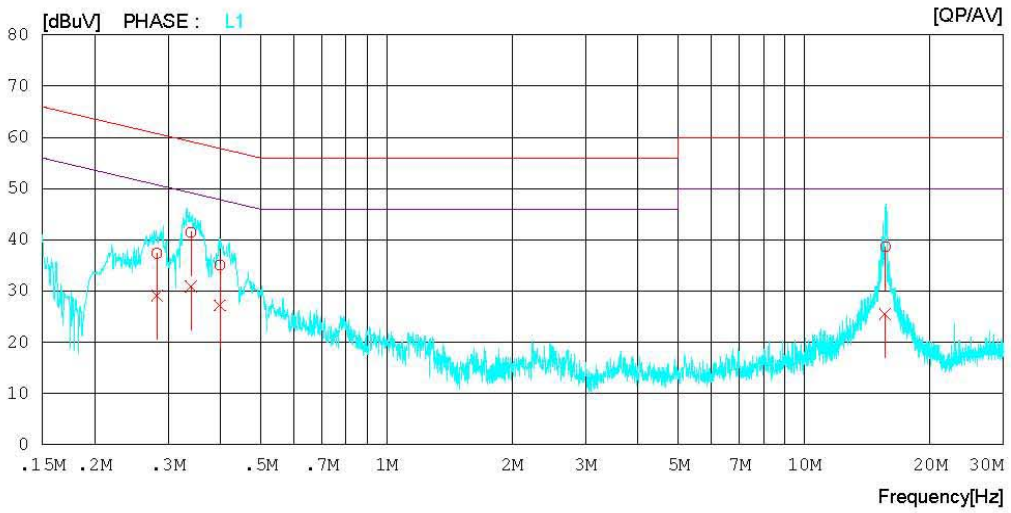
Digital EMC
Date : 2012-07-29

Model No.	:	32LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	26 'C 50 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2012-07-29

Model No.	:	32LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	26 'C 50 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.28191	36.9	28.6	0.2	37.1	28.8	60.8	50.8	23.7	22.0	N
2	0.34090	40.5	29.8	0.3	40.8	30.1	59.2	49.2	18.4	19.1	N
3	0.39933	34.2	26.5	0.3	34.5	26.8	57.9	47.9	23.4	21.1	N
4	15.66600	38.8	25.2	1.0	39.8	26.2	60.0	50.0	20.2	23.8	N
5	0.28204	37.2	28.9	0.2	37.4	29.1	60.8	50.8	23.4	21.7	L1
6	0.34031	41.2	30.6	0.3	41.5	30.9	59.2	49.2	17.7	18.3	L1
7	0.39933	34.8	26.9	0.3	35.1	27.2	57.9	47.9	22.8	20.7	L1
8	15.63700	37.7	24.6	1.0	38.7	25.6	60.0	50.0	21.3	24.4	L1

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< USB MODE >

Digital EMC

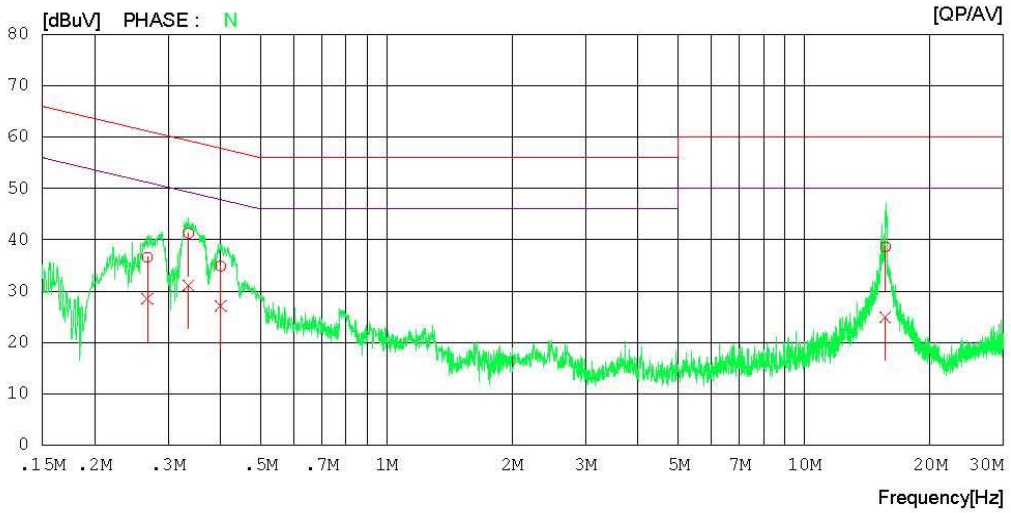
Results of Conducted Emission

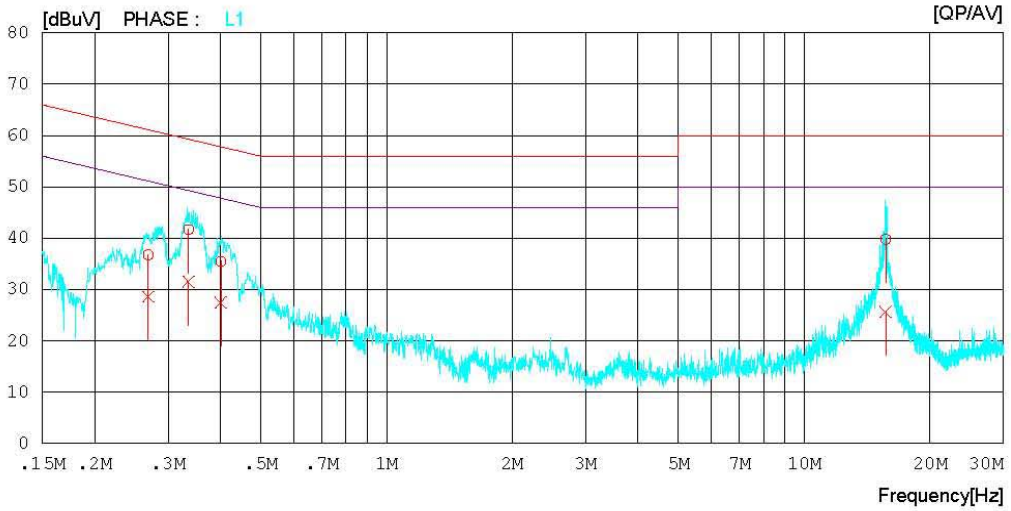
Digital EMC
Date : 2012-07-29

Model No.	:	32LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	26 'C 50 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2012-07-29

Model No.	:	32LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	26 'C 50 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.26761	36.4	28.3	0.2	36.6	28.5	61.2	51.2	24.6	22.7	N
2	0.33550	40.9	30.8	0.3	41.2	31.1	59.3	49.3	18.1	18.2	N
3	0.40083	34.6	26.8	0.3	34.9	27.1	57.8	47.8	22.9	20.7	N
4	15.63450	37.6	23.9	1.0	38.6	24.9	60.0	50.0	21.4	25.1	N
5	0.26884	36.6	28.4	0.2	36.8	28.6	61.2	51.2	24.4	22.6	L1
6	0.33585	41.4	31.2	0.3	41.7	31.5	59.3	49.3	17.6	17.8	L1
7	0.40116	35.2	27.2	0.3	35.5	27.5	57.8	47.8	22.3	20.3	L1
8	15.67500	38.8	24.7	1.0	39.8	25.7	60.0	50.0	20.2	24.3	L1

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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 10m 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.

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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 (10m distance)	Class B Equipment (3m 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

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Test Result

< DSUB MODE_30 MHz ~ 1 GHz >

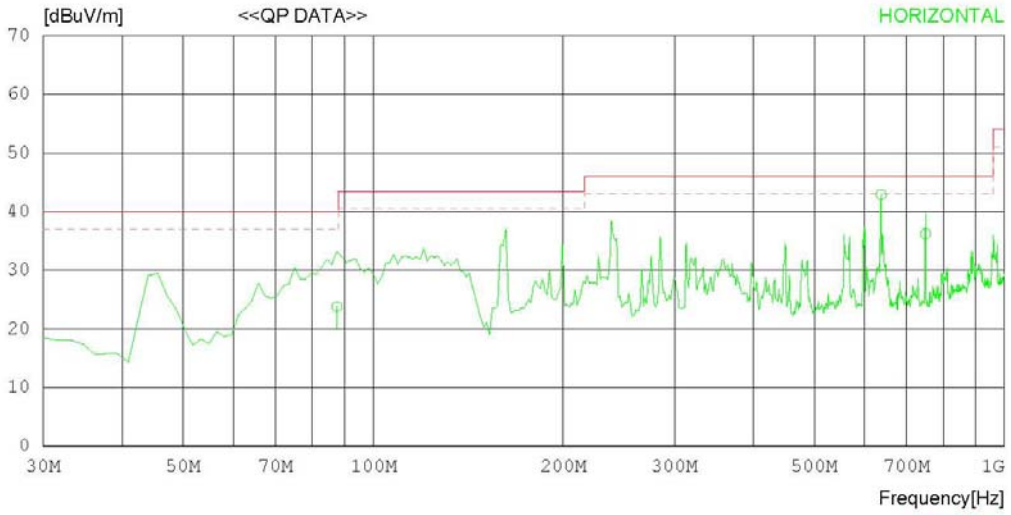
RADIATED EMISSION

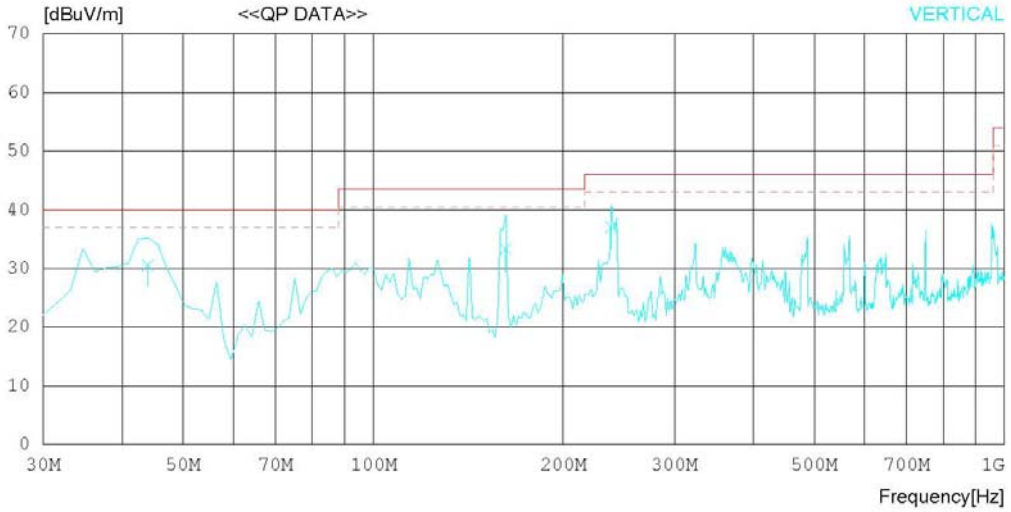
Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	24 'C 55 % R.H
Test Condition	:	DSUB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	24 'C 55 % 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	637.804	44.5	18.7	4.2	24.5	42.9	46.0	3.1	181	359
2	87.516	36.4	8.7	1.5	22.8	23.8	40.0	16.2	377	205
3	749.728	36.1	19.5	4.6	24.0	36.2	46.0	9.8	148	218
----- Vertical ------										
4	43.990	41.4	11.0	1.1	22.9	30.6	40.0	9.4	100	153
5	162.132	44.7	9.9	1.9	23.2	33.3	43.5	10.2	100	358
6	238.302	46.4	11.6	2.5	23.5	37.0	46.0	9.0	204	182

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< DSUB MODE _ (1 ~ 6) GHz_Peak >

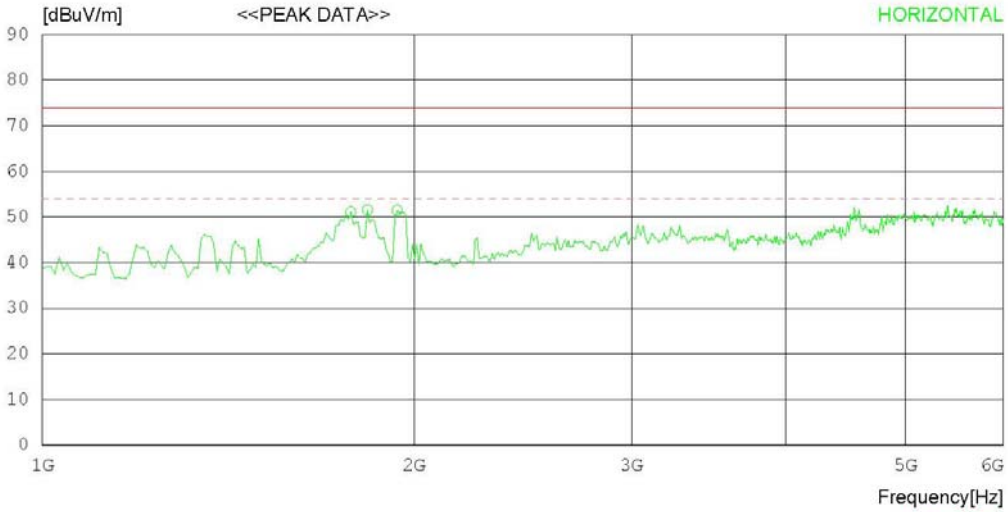
RADIATED EMISSION

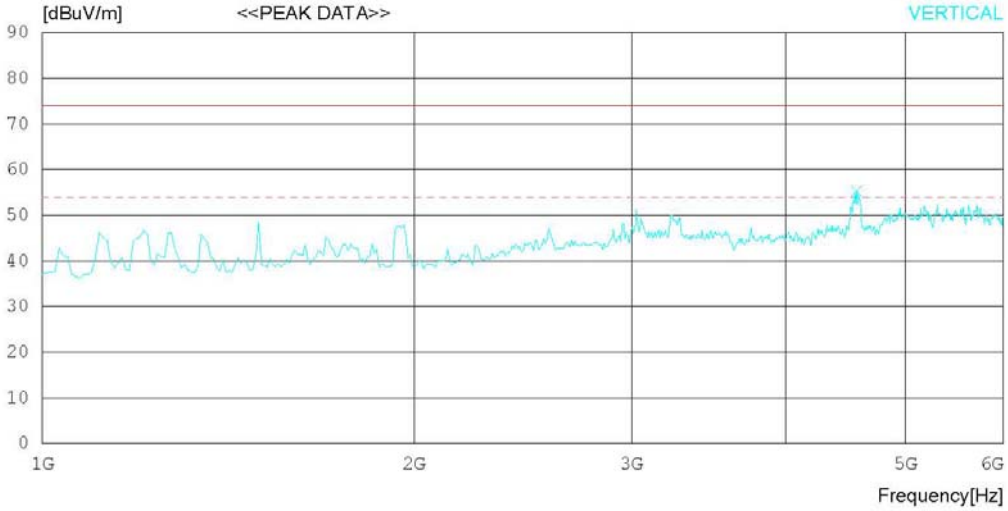
Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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)





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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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	1777.243	60.3	24.6	8.0	41.8	51.1	74.0	22.9	100	358
2	1833.333	60.7	24.6	8.1	41.8	51.6	74.0	22.4	100	159
3	1937.500	60.3	24.6	8.3	41.7	51.5	74.0	22.5	100	358
----- Vertical ------										
4	4565.728	52.5	31.1	13.7	42.0	55.3	74.0	18.7	100	182

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< DSUB MODE _ (1 ~ 6) GHz_Average >

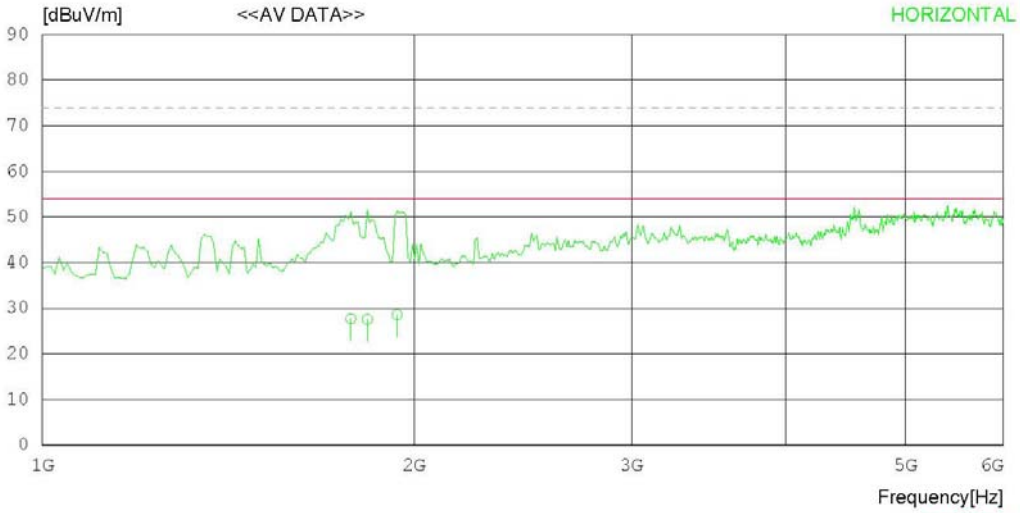
RADIATED EMISSION

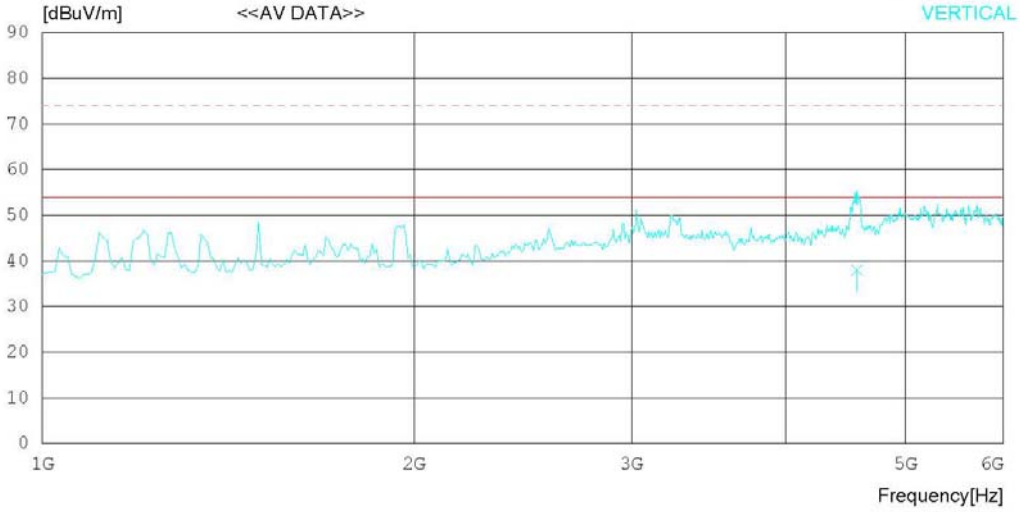
Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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)





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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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	1777.243	36.9	24.6	8.0	41.8	27.7	54.0	26.3	100	358
2	1833.333	36.7	24.6	8.1	41.8	27.6	54.0	26.4	100	159
3	1937.500	37.4	24.6	8.3	41.7	28.6	54.0	25.4	100	358
----- Vertical ------										
4	4565.728	35.2	31.1	13.7	42.0	38.0	54.0	16.0	100	182

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< HDMI MODE_30 MHz ~ 1 GHz >

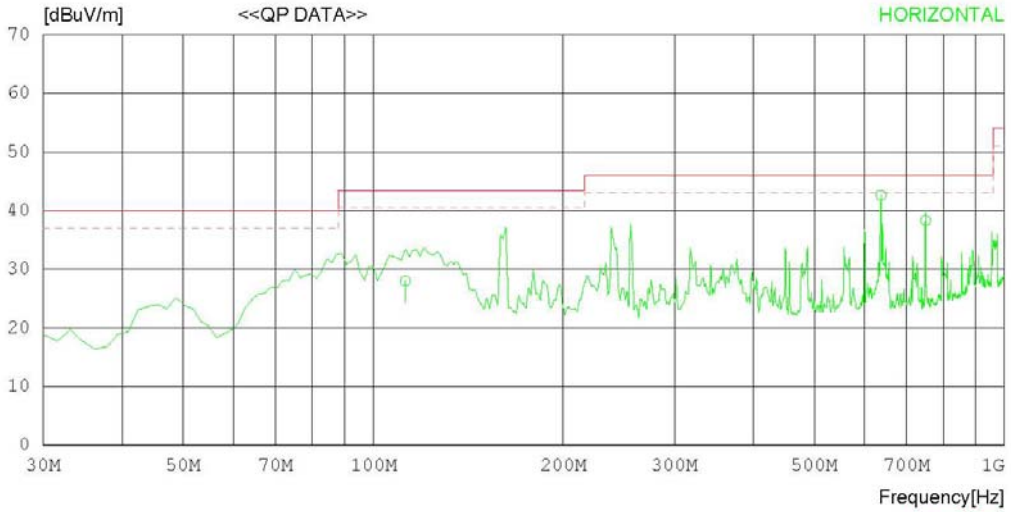
RADIATED EMISSION

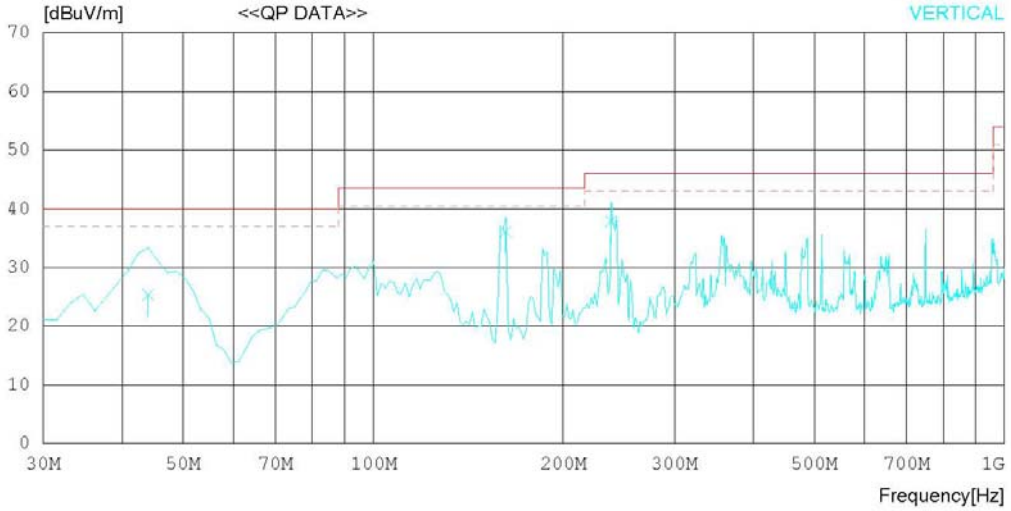
Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	24 'C 55 % R.H
Test Condition	:	HDMI	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	24 'C 55 % 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	637.804	44.2	18.7	4.2	24.5	42.6	46.0	3.4	202	0
2	112.388	37.4	11.9	1.5	22.8	28.0	43.5	15.5	400	182
3	749.728	38.2	19.5	4.6	24.0	38.3	46.0	7.7	153	0
----- Vertical ------										
4	43.990	36.2	11.0	1.1	22.9	25.4	40.0	14.6	100	1
5	162.132	47.5	9.9	1.9	23.2	36.1	43.5	7.4	100	358
6	238.302	47.3	11.6	2.5	23.5	37.9	46.0	8.1	100	1

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

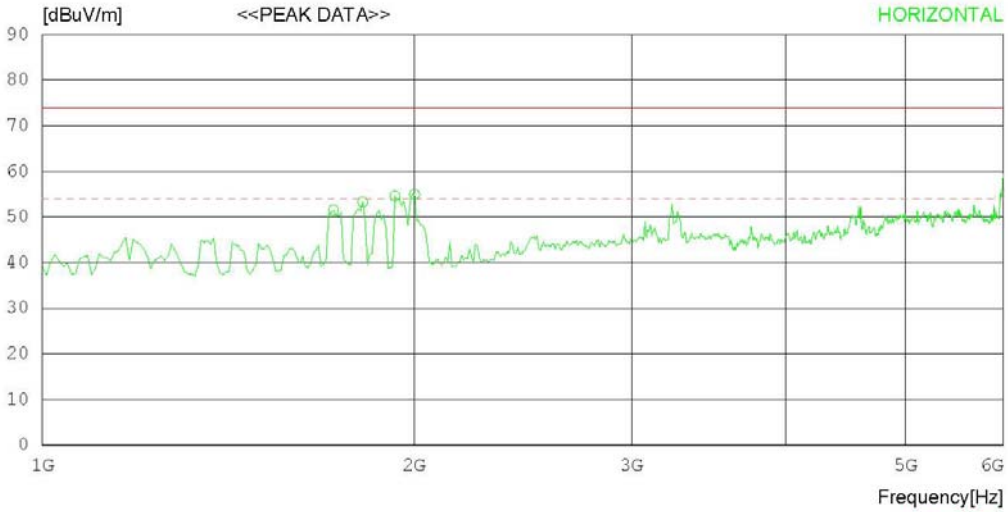
RADIATED EMISSION

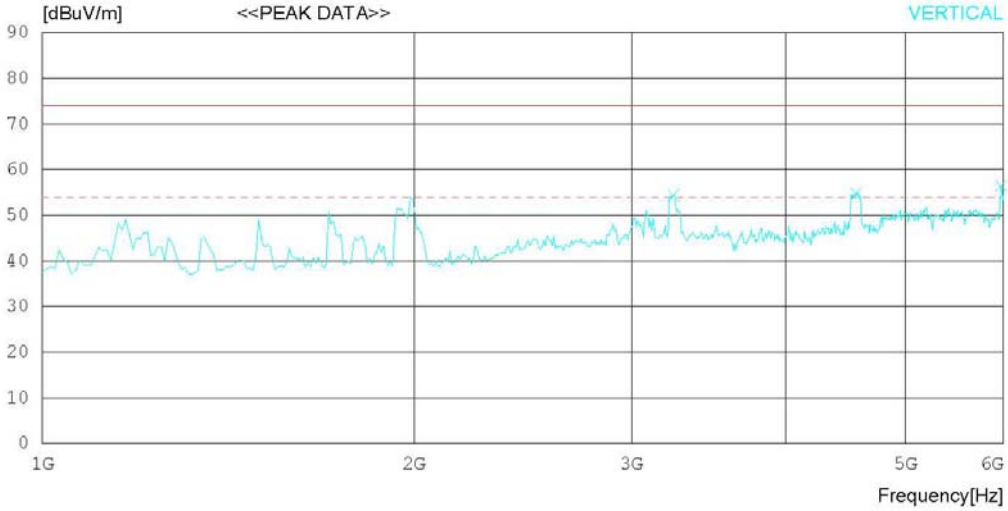
Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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)





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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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	1721.154	60.7	24.6	7.9	41.7	51.5	74.0	22.5	100	1
2	1817.307	62.4	24.6	8.1	41.8	53.3	74.0	20.7	100	1
3	1929.487	63.4	24.6	8.3	41.7	54.6	74.0	19.4	100	195
4	2001.602	63.6	24.6	8.5	41.7	55.0	74.0	19	100	1
----- Vertical ------										
5	3243.607	56.3	28.9	11.1	41.8	54.5	74.0	19.5	100	358
6	4557.715	51.9	31.1	13.7	42.0	54.7	74.0	19.3	100	358
7	5975.962	50.8	32.0	15.8	42.1	56.5	74.0	17.5	100	114

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

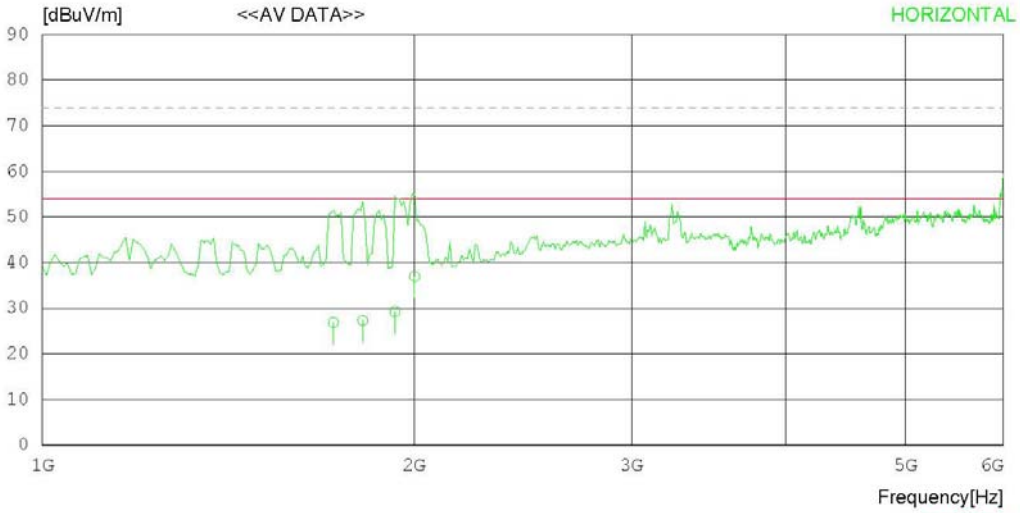
RADIATED EMISSION

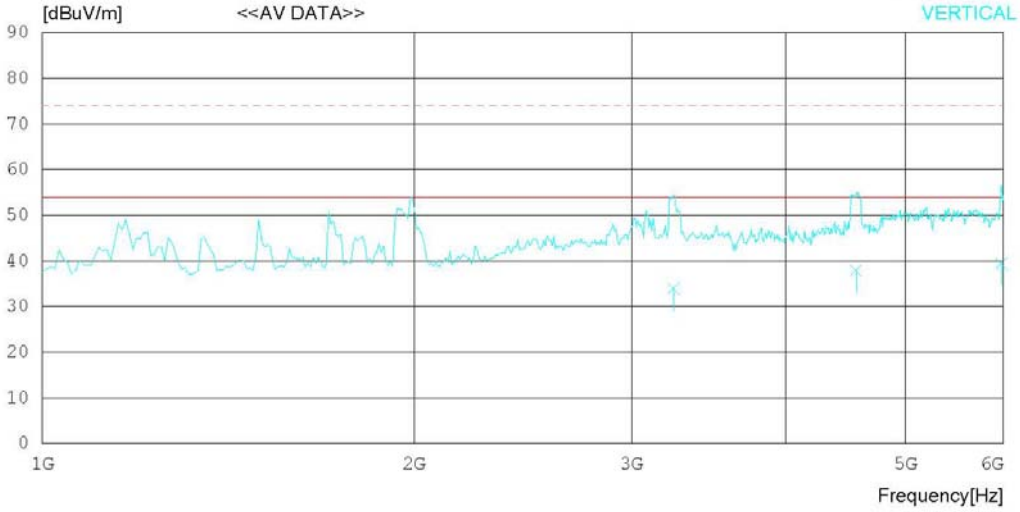
Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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)





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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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	1721.154	36.1	24.6	7.9	41.7	26.9	54.0	27.1	100	1
2	1817.307	36.4	24.6	8.1	41.8	27.3	54.0	26.7	100	1
3	1929.487	38.1	24.6	8.3	41.7	29.3	54.0	24.7	100	195
4	2001.602	45.6	24.6	8.5	41.7	37.0	54.0	17.0	100	1
----- Vertical ------										
5	3243.607	35.8	28.9	11.1	41.8	34.0	54.0	20.0	100	358
6	4557.715	35.1	31.1	13.7	42.0	37.9	54.0	16.1	100	358
7	5975.962	33.7	32.0	15.8	42.1	39.4	54.0	14.6	100	114

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< USB MODE_30 MHz ~ 1 GHz >

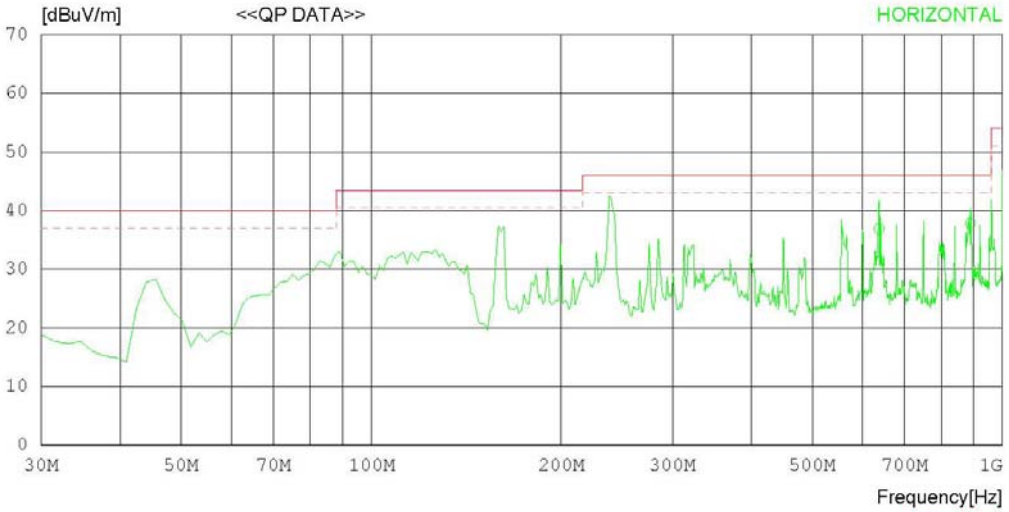
RADIATED EMISSION

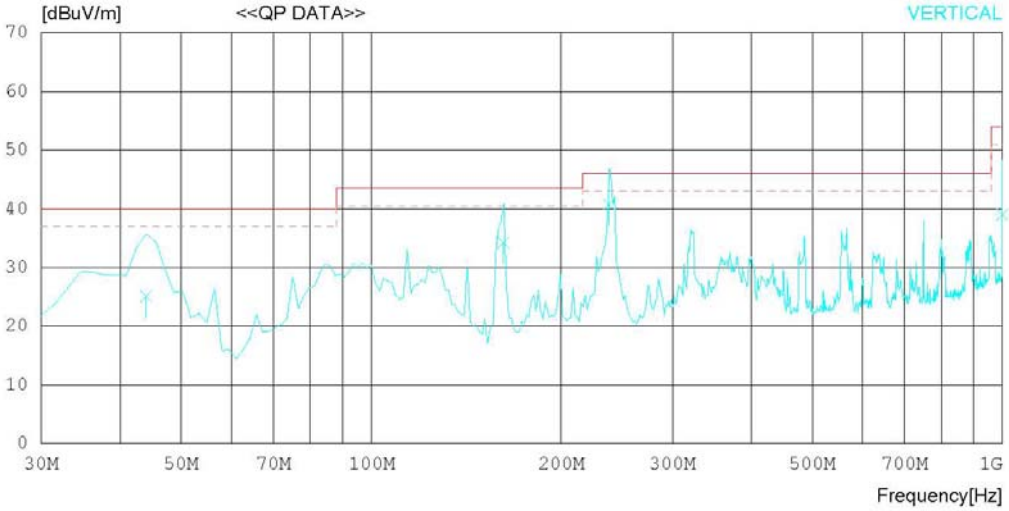
Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	24 'C 55 % R.H
Test Condition	:	USB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	24 'C 55 % 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	637.804	38.5	18.7	4.2	24.5	36.9	46.0	9.1	187	0
2	889.634	35.2	20.6	5.2	23.2	37.8	46.0	8.2	100	358
----- Vertical ------										
3	43.990	35.9	11.0	1.1	22.9	25.1	40.0	14.9	100	1
4	162.132	45.7	9.9	1.9	23.2	34.3	43.5	9.2	199	358
5	238.302	50.2	11.6	2.5	23.5	40.8	46.0	5.2	199	164
6	1000.000	33.8	22.7	5.5	23.0	39.0	54.0	15.0	100	1

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

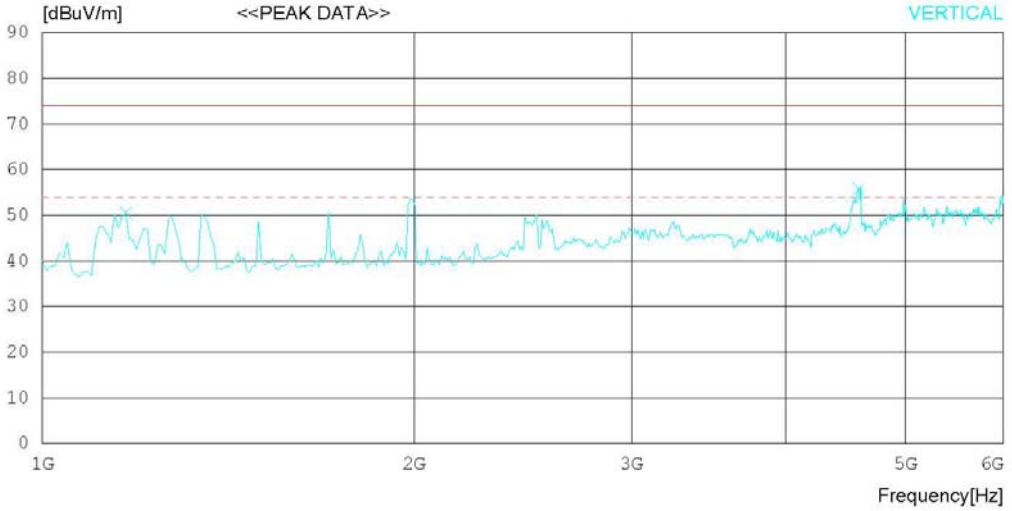
RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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)



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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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	1705.128	60.7	24.6	7.9	41.7	51.5	74.0	22.5	100	358
2	1993.589	65.3	24.6	8.4	41.7	56.6	74.0	17.4	100	144
3	5991.988	50.2	31.9	15.8	42.1	55.8	74.0	18.2	100	295
----- Vertical ------										
4	1168.269	62.1	24.1	6.3	41.9	50.6	74.0	23.4	100	43
5	4581.753	52.8	31.2	13.8	42.0	55.8	74.0	18.2	100	1

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

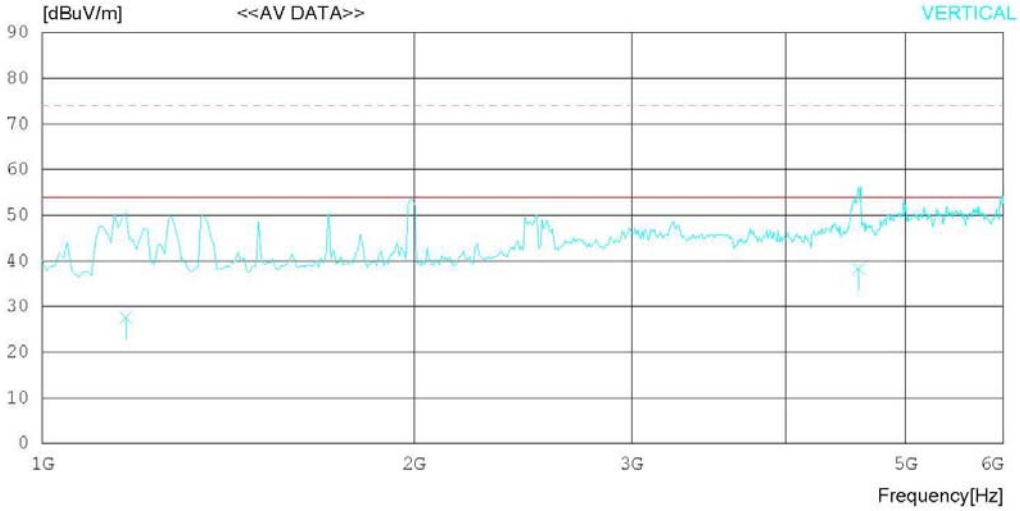
RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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)



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RADIATED EMISSION

Date : 2012-08-01

Model Name	:	32LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	26 'C 54 % 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	1705.128	53.9	24.6	7.9	41.7	44.7	54.0	9.3	100	358
2	1993.589	43.8	24.6	8.4	41.7	35.1	54.0	18.9	100	144
3	5991.988	34.7	31.9	15.8	42.1	40.3	54.0	13.7	100	295
----- Vertical ------										
4	1168.269	39.1	24.1	6.3	41.9	27.6	54.0	26.4	100	43
5	4581.753	35.3	31.2	13.8	42.0	38.3	54.0	15.7	100	1

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Appendix 1

List of Test and Measurement Instruments

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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	2011.09.19	2012.09.19
☐	ATTENUATOR	CFA-10BPJ-10	TAMAGAWA ELECTRONICS	1760307E	N/A	N/A
☐	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	2010.12.21	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	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
☐	EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
☐	BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2010.11.29	2012.11.29
☐	LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2011.07.07	2013.07.07
☐	BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2010.12.21	2012.12.21
☐	LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2010.11.29	2012.11.29
☐	AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2012.03.05	2013.03.05

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