



683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080

Tel: +82-31-321-2664 Fax: +82-31-321-1664

<http://www.digitalemcc.com>

FCC Test Report

for

LCD TV

Applicant : LG Electronics Inc.

Model Number : 42LD320H-UA

Manufacturer : LG Electronics Inc.

ANSI C 63.4:2003

Test Standard : FCC Part 15 Subpart B

(Type of Device : Class B Computing Device Peripheral (JBP))

Date of Tests : October 28 ~ 29, 2010

Date of Issue : November 03, 2010

Tested by : D.H.EUN/Assistant Manager

Reviewed by : Y.K.SHIN/Manager

A handwritten signature in black ink, appearing to read 'D.H.EUN', written over a horizontal line.

A handwritten signature in black ink, appearing to read 'Y.K.SHIN', written over a horizontal line.

This test result only responds to the tested sample.

It is not allowed to copy this report even partly without the allowance of the test laboratory.

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1. General Remarks

This Report describes the emission characteristics of the tested product.

If the product will be used with additional equipment other than those mentioned in this report or if the tested product will be used against the manufacture's specifications, the compliance with the relevant standards for the system has to be ensured.

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	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385 T-1442	Test Facility list & NSA Data
Certification	Korea	KCC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK0924C	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".

DIGITAL EMC CO., LTD.

Address: 683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080

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3. General Information of EUT

3.1 Product Information

Equipment under Test	LCD TV
Model No.	42LD320H-UA
Serial No	NONE
Type of Sample Tested	Pre-Production
Rating Power Supply	AC110V
High Frequency	667MHz
Supplied Power for Test	AC120V, 60Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Factory	LG Electronics Reynosa, Inc. LG Electronics USA, Inc_Reynosa 9801 South Cage Blvd. Suite 3F Pharr, TX. 78577
Date of Receipt of Sample	2010-10-07

< Product Specifications >

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
1280x1024	63.981	60.02
1600x1200	75.00	60.00
1920x1080 RGB-PC	66.587	59.934
1920x1080 HDMI-PC	67.50	60.00

4. Test Summary

4.1 Summary of tests

The applied standards to evaluate the compliance of requirements is 47CFR Part 15, Subpart B and the measurement procedures specified in ANSI C63.4 are performed.

Test Items	Applied Standards	Status
Emission		
Conducted Emission	FCC Part 15 Subpart B	C
Radiated Emission	FCC Part 15 Subpart B	C
Note 1: C=Conform NC=Not Conform NT=Not Tested NA=Not Applicable		

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 1920*1080 MAX, "H" character scroll
- HDMI mode : Resolution 1920*1080 MAX, "H" character scroll
- USB mode : USB file play

EUT is the following operational conditions apply:

- a) Set the contrast control to maximum.
- b) Set the brightness control to maximum or at raster extinction if raster extinction occurs at less than maximum brightness.
- c) For color monitors, use white letters on a black background to represent all colors.
- d) Select the worse case of positive or negative video if both alternatives are available.
- e) Set character size and number of characters per line so that the typical maximum number of characters per screen is displayed.
- f) For a monitor that has no graphics capabilities, regardless of the video card used, a pattern consisting of random text shall be displayed. For a monitor with graphics capability, even though another videocard may be needed to accomplish a graphic display, a screen pattern consisting of lines of scrolling H's should be displayed. For a monitor that has no text capabilities, use a typical display. That pattern should be used for the remainder of the tests.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE			Backshell	FCC ID
				Connect type	Length (m)	shield		
PC	DN-V60	671K9NCP100 324M	SAMSUNG	PS/2	1.6	Shield	Plastic	DOC
				Power	1.8	Non-shield	Plastic	
				DSUB	1.8	Shield	Plastic	
				DVI to HDMI	2.0	Shield	Metal	
				LPT	1.9	Shield	Metal	
Keyboard	SKG-3300VB	TAKZ200031M	MONITEREY INTERNATIONAL CORP	PS/2	1.6	Shield	Plastic	DOC
Mouse	M-VAE96	LZ751AP01MC	MONITEREY INTERNATIONAL CORP	PS/2	1.6	Shield	Plastic	DOC
Printer	SRP-770	N.A	BIXOLON	Power	1.8	Non-shield	Plastic	DOC
USB Memory	U1	N/A	AXXEN	LPT	1.9	Shield	Metal	
				USB	-	-	Plastic	DOC

NOTE

- See "APPENDIX 1 Photographs" for actual system test setup

6. Test Results : Emission

6.1 Conducted Emission

RESULT : COMPLY

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, the conducted emission was measured and set-up was made accordance with **ANSI C63.4:2003**.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8m above the reference ground plane and 0.4m 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 0.15m 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 TOYO conducted emission test software, the emissions were scanned from 150KHz to 30MHz 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 List of Test and Measurement Instruments

Name of Instrument	Model No.	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
EMI TEST RECEIVER	ESCI	100364	R&S	2010.05.12	2011.05.12
DC BLOCK	KFL-007	7-1581-5	Hyuplip	-	-
LISN	LISN1600	197204	TTI	2010.07.02	2011.07.02
LISN(EUT)	ESH2-Z5	828739/006	R&S	2010.10.01	2011.10.01
50 ohm Terminator	CT-01	N/A	TME	2010.01.12	2011.01.12

6.1.3 Limit for Conducted Emission

(1) Conducted Emission at mains ports of class A

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	79	66
0.50 to 30	73	60
Note The lower limit shall apply at the transition frequencies.		

(2) Conducted Emission at mains ports of class B

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	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 0.15MHz to 0.5MHz.		

6.1.4 Test Result

Test date	October 28, 2010
Ambient Temperature	20 °C
Relative Humidity	31 % R.H.

Result : For the measurement data, see next page.

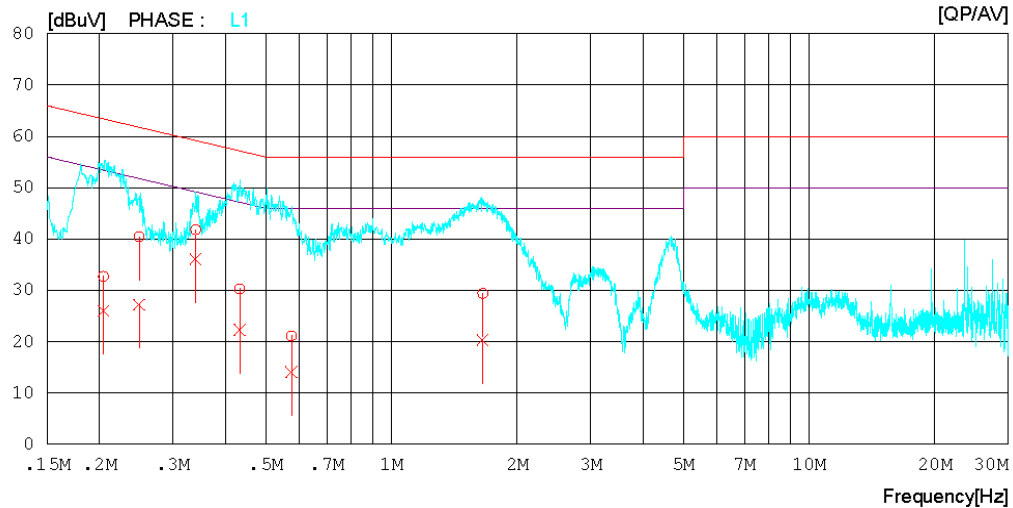
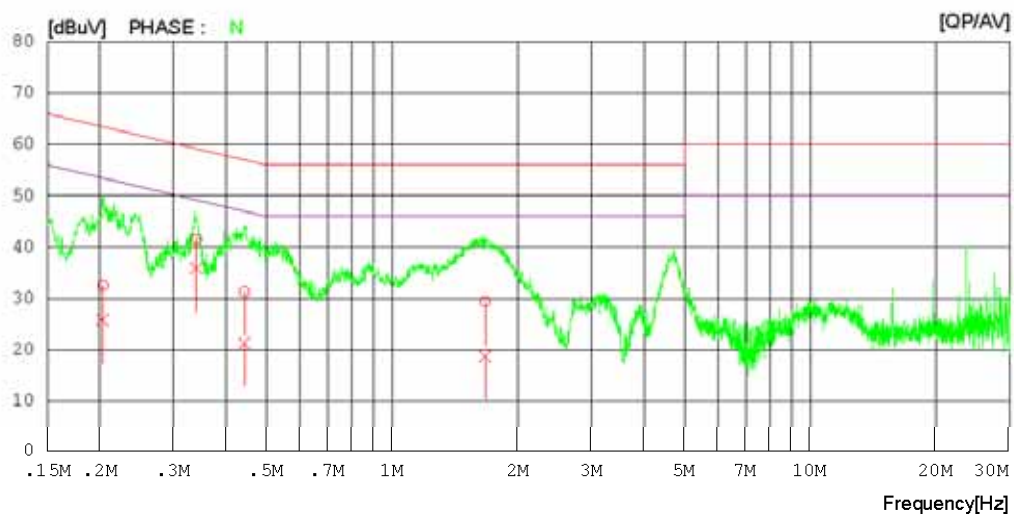
Note) 1. Emission Level = Reading Value + Correction Factor.

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 : 2010/10/28Model No. : 42LD320H-UA
Type :
Serial No. :
Test Condition : DSUBReference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20 °C 31 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

Results of Conducted Emission

Digital EMC
Date : 2010/10/28

Model No. : 42LD320H-UA
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20°C 31 % 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	0.20330	32.3	25.6	0.2	32.5	25.8	63.5	53.5	31.0	27.7	N
2	0.34029	41.3	35.6	0.3	41.6	35.9	59.2	49.2	17.6	13.3	N
3	0.44348	31.0	21.0	0.3	31.3	21.3	57.0	47.0	25.7	25.7	N
4	1.66700	29.1	18.4	0.3	29.4	18.7	56.0	46.0	26.6	27.3	N
5	0.20446	32.5	25.8	0.2	32.7	26.0	63.4	53.4	30.7	27.4	L1
6	0.24863	40.3	27.0	0.2	40.5	27.2	61.8	51.8	21.3	24.6	L1
7	0.33991	41.5	35.8	0.3	41.8	36.1	59.2	49.2	17.4	13.1	L1
8	0.43313	30.0	22.0	0.3	30.3	22.3	57.2	47.2	26.9	24.9	L1
9	0.57579	21.0	13.9	0.2	21.2	14.1	56.0	46.0	34.8	31.9	L1
10	1.65400	29.1	20.1	0.3	29.4	20.4	56.0	46.0	26.6	25.6	L1

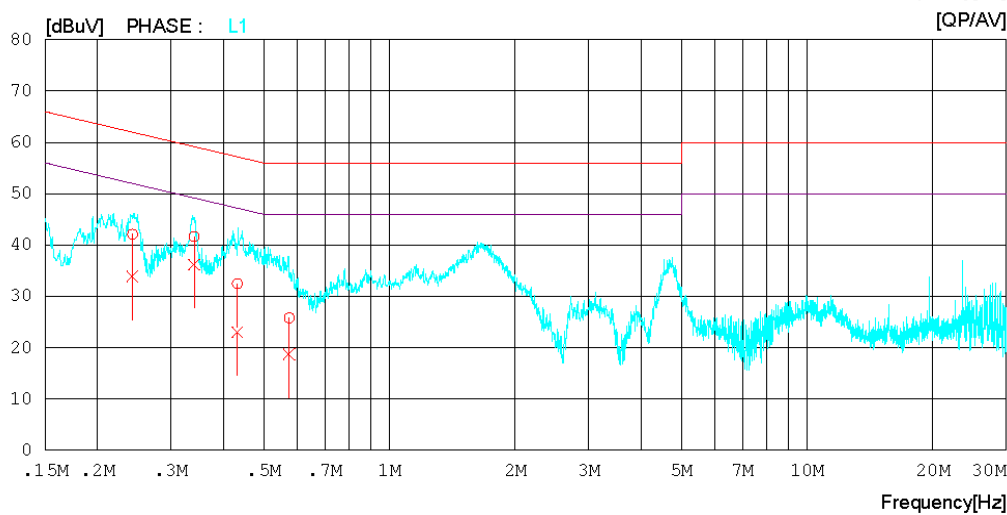
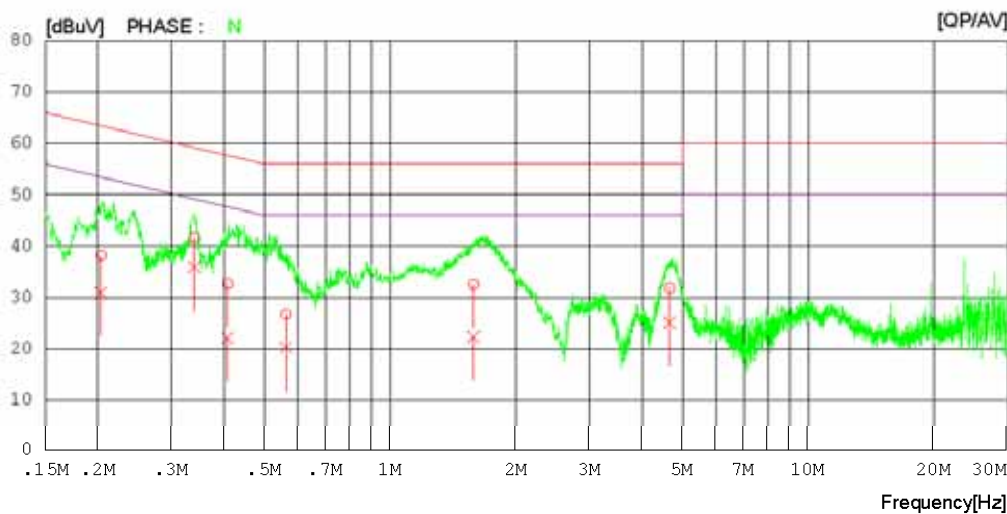
< HDMI MODE >



Results of Conducted Emission

Digital EMC
Date : 2010/10/28

Model No.	: 42LD320H-UA	Reference No.	:
Type	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi.	: 20 °C 31 % R.H.
Test Condition	: HDMI	Operator	:
Memo	:		
LIMIT : CISPR22_B QP			
CISPR22_B AV			



Results of Conducted Emission

Digital EMC
Date : 2010/10/28

Model No. : 42LD320H-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20°C 31 % 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	0.20340	37.9	30.7	0.2	38.1	30.9	63.5	53.5	25.4	22.6	N
2	0.34006	41.3	35.6	0.3	41.6	35.9	59.2	49.2	17.6	13.3	N
3	0.40883	32.4	21.9	0.3	32.7	22.2	57.7	47.7	25.0	25.5	N
4	0.56356	26.6	20.0	0.2	26.8	20.2	56.0	46.0	29.2	25.8	N
5	1.58300	32.2	22.0	0.3	32.5	22.3	56.0	46.0	23.5	23.7	N
6	4.65500	31.3	24.6	0.5	31.8	25.1	56.0	46.0	24.2	20.9	N
7	0.24266	41.9	33.7	0.2	42.1	33.9	62.0	52.0	19.9	18.1	L1
8	0.34050	41.4	35.9	0.3	41.7	36.2	59.2	49.2	17.5	13.0	L1
9	0.43191	32.2	22.7	0.3	32.5	23.0	57.2	47.2	24.7	24.2	L1
10	0.57521	25.6	18.5	0.2	25.8	18.7	56.0	46.0	30.2	27.3	L1

< USB MODE >



Results of Conducted Emission

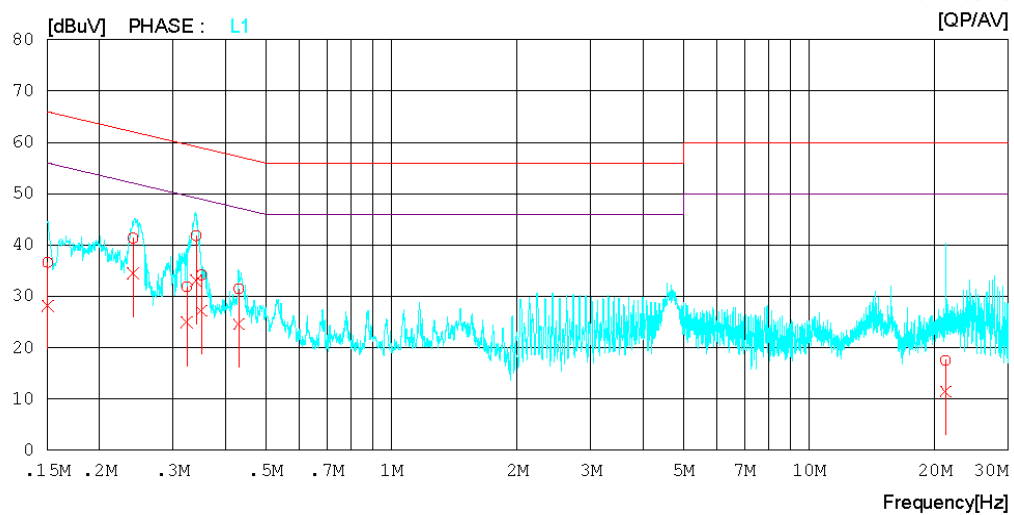
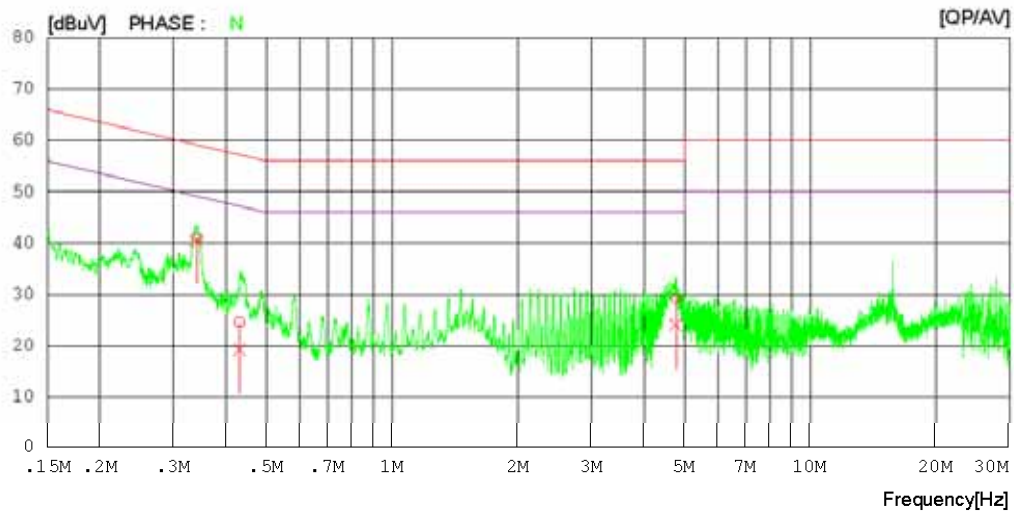
Digital EMC
Date : 2010/10/28

Model No. : 42LD320H-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20 °C 31 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2010/10/28

Model No. : 42LD320H-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20°C 31 % 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	0.34039	40.7	40.1	0.3	41.0	40.4	59.2	49.2	18.2	8.8	N
2	0.43155	24.3	19.0	0.3	24.6	19.3	57.2	47.2	32.6	27.9	N
3	4.76650	28.7	23.5	0.5	29.2	24.0	56.0	46.0	26.8	22.0	N
4	0.15037	36.4	28.0	0.2	36.6	28.2	66.0	56.0	29.4	27.8	L1
5	0.24050	41.2	34.3	0.2	41.4	34.5	62.1	52.1	20.7	17.6	L1
6	0.32358	31.5	24.7	0.3	31.8	25.0	59.6	49.6	27.8	24.6	L1
7	0.34045	41.5	32.8	0.3	41.8	33.1	59.2	49.2	17.4	16.1	L1
8	0.35079	33.9	26.9	0.3	34.2	27.2	58.9	48.9	24.7	21.7	L1
9	0.43111	31.2	24.3	0.3	31.5	24.6	57.2	47.2	25.7	22.6	L1
10	21.21400	16.4	10.4	1.1	17.5	11.5	60.0	50.0	42.5	38.5	L1

6.2 Radiated Emission

RESULT : COMPLY

6.2.1 Measurement Procedure

The radiated emission was measured and set-up was made accordance with **ANSI C63.4:2003**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8m above the reference ground plane and 3m away from the interference receiving antenna **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 0.15m above the reference ground plane.

Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4m 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 1GHz frequency range, Quasi-Peak detector with 120kHz RBW was used.

Also Peak and Average detector with 1MHz RBW were used for above 1GHz frequency range.

For further description of the configuration refer to the picture of the test set-up.

6.2.2 List of Test and Measurement Instruments

Radiated Emission (10m Chamber)					
Name of Instrument	Model No.	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
EMI Test Receiver	ESU	100014	R&S	2010.01.29	2011.01.29
Bilog Antenna	CBL6112D	22609	SCHAFFNER	2009.10.28	2010.10.28
Horn Antenna	BBHA9120A	322	SCHWARZBECK	2010.04.13	2011.04.13
Amplifier(22dB)	8447E	2945A02865	H/P	2010.01.29	2011.01.29
Low Noise Preamplifier	MLA-00108-B02-36	1518831	TSJ	2010.02.08	2011.02.08
Controller	5905A	N/A	TOKIN	-	-
ANT.master	N/A	N/A	TOKIN	-	-

6.2.3 Limit of Radiated Emission

- The test frequency range of Radiated Emission 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	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

(1) Limit for Radiated Emission below 1000MHz

Frequency range (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m distance)
	Quasi-peak limits (dB μ V/m)	Quasi-peak limits (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 1000	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.		
30 to 230	40	30
230 to 1000	47	37

(2) Limits for Radiated Emission in the frequency range 1000 - 2000MHz at a measuring distance of 10m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	peak (dB μ V/m)	peak (dB μ V/m)	peak (dB μ V/m)	Average (dB μ V/m)
1 to 2	69.5	49.5	63.5	43.5

(3) Limits for Radiated Emission above 1000MHz at a measuring distance of 3m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	peak (dB μ V/m)	peak (dB μ V/m)	peak (dB μ V/m)	Average (dB μ V/m)
1 to 40	80	60	74	54

6.2.4 Test Result

Test date	October 29, 2010
Ambient Temperature	20 °C
Relative Humidity	38 % R.H.

Result : For the measurement data, see next page

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 >
- 30MHz-1GHz

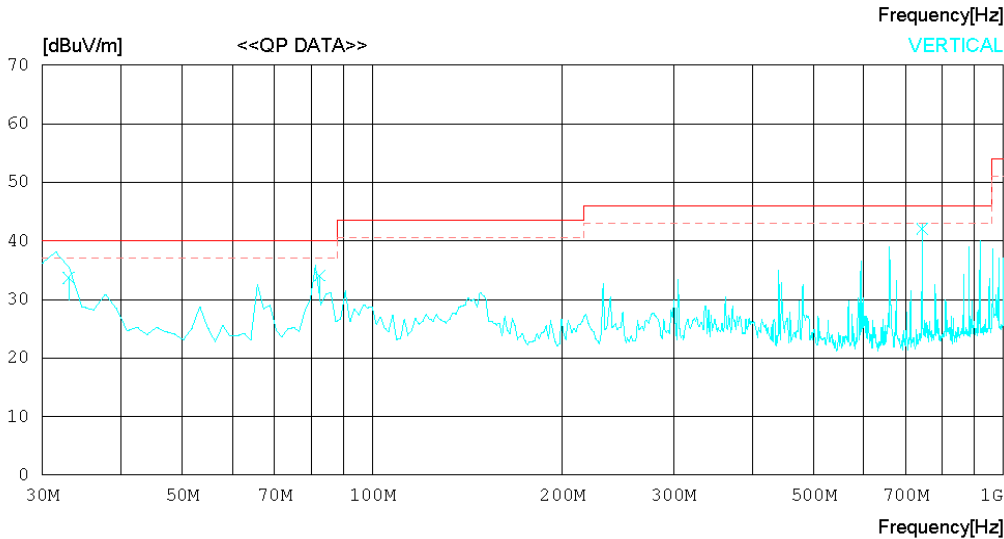
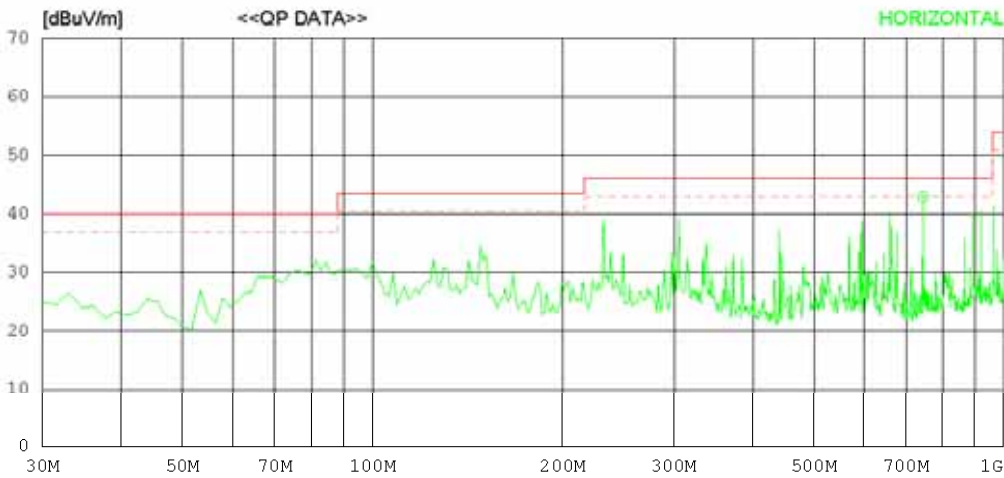


RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: DSUB	Operator	:

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



RADIATED EMISSION

Date : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20°C 38%R.H.
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	743.510	44.0	19.5	3.4	24.0	42.9	46.0	3.1	201	208
----- Vertical -----										
2	33.028	38.6	17.0	0.7	22.6	33.7	40.0	6.3	100	176
3	82.506	48.1	7.6	1.1	22.7	34.1	40.0	5.9	100	196
4	743.510	43.2	19.5	3.4	24.0	42.1	46.0	3.9	100	1

- 1GHz-3GHz_Peak



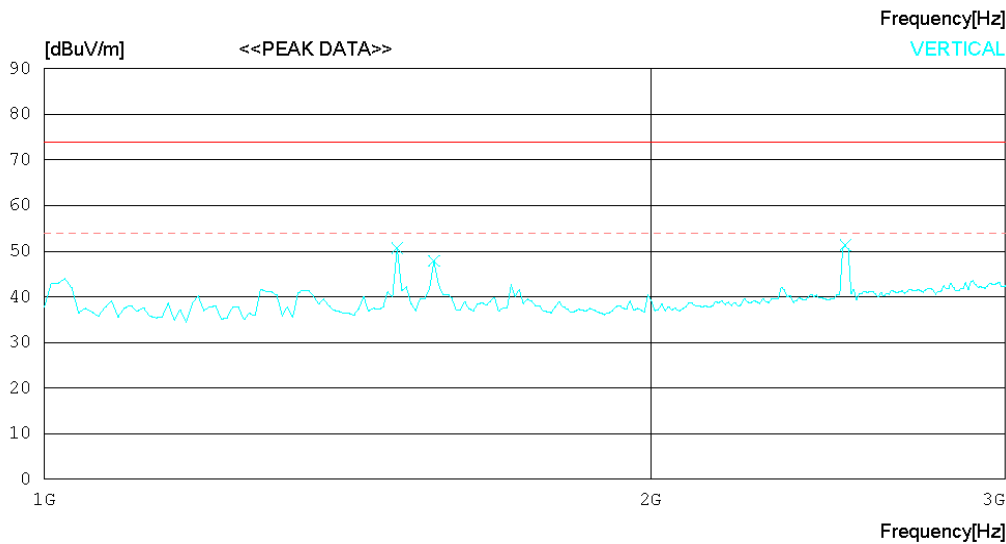
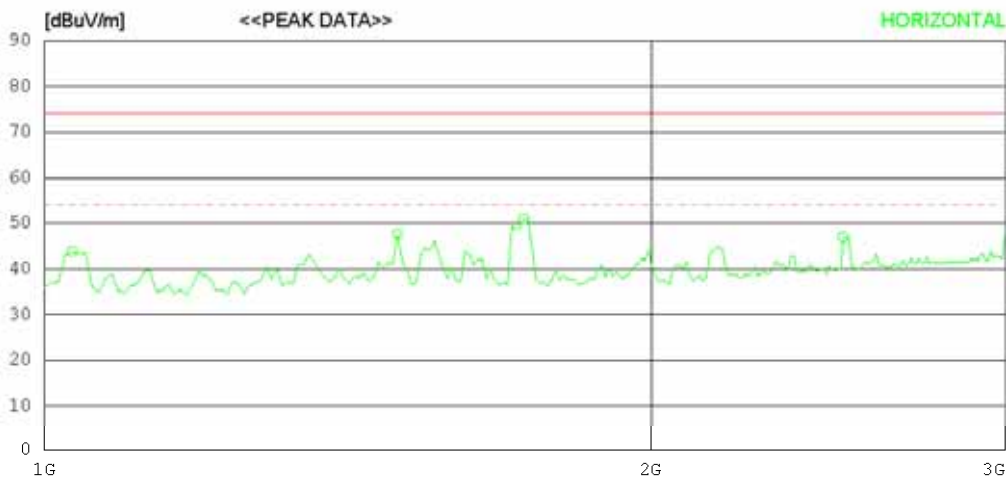
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%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 : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%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	1032.051	57.1	23.7	4.9	41.9	43.8	74.0	30.2	101	358
2	1496.795	58.5	25.1	5.9	41.9	47.6	74.0	26.4	101	138
3	1729.166	61.3	25.2	6.4	41.9	51.0	74.0	23	101	358
4	2490.391	53.6	27.3	7.7	41.6	47.0	74.0	27	201	1
----- Vertical -----										
5	1496.795	61.6	25.1	5.9	41.9	50.7	74.0	23.3	201	342
6	1560.897	58.6	25.1	6.1	41.9	47.9	74.0	26.1	100	153
7	2498.404	57.9	27.3	7.7	41.6	51.3	74.0	22.7	100	43

- 1GHz-3GHz_Average



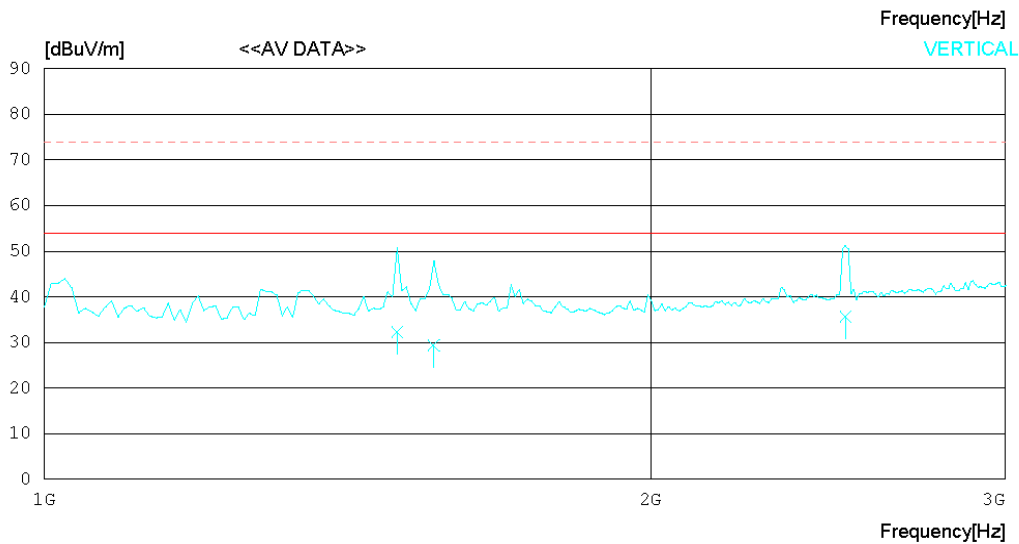
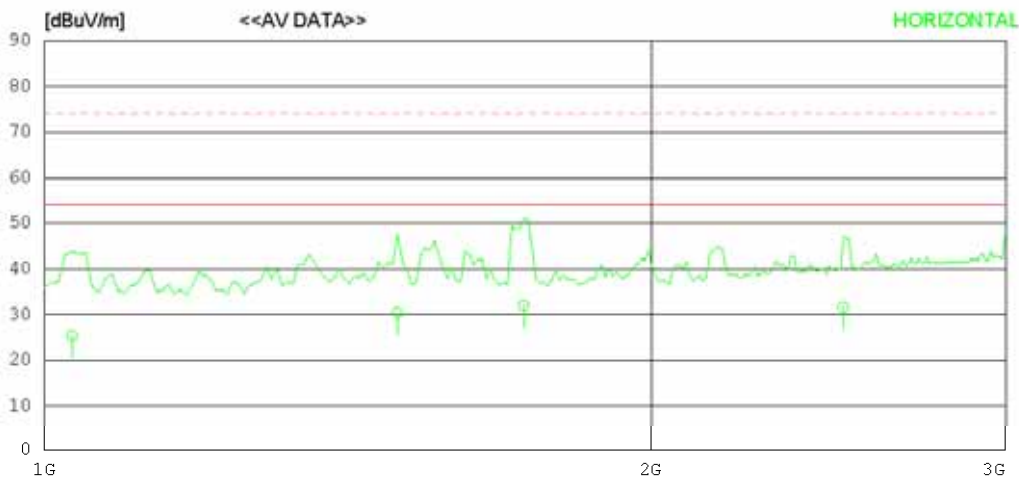
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%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 : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%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	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
		[dBuV]	[dB]							
----- Horizontal -----										
1	1032.051	38.7	23.7	4.9	41.9	25.4	54.0	28.6	101	358
2	1496.795	41.3	25.1	5.9	41.9	30.4	54.0	23.7	101	138
3	1729.166	42.3	25.2	6.4	41.9	32.0	54.0	22.0	101	358
4	2490.391	38.2	27.3	7.7	41.6	31.6	54.0	22.4	201	1
----- Vertical -----										
5	1496.795	43.2	25.1	5.9	41.9	32.3	54.0	21.7	201	342
6	1560.897	40.1	25.1	6.1	41.9	29.4	54.0	24.6	100	153
7	2498.404	42.3	27.3	7.7	41.6	35.7	54.0	18.3	100	43

- 3GHz-6GHz_Peak



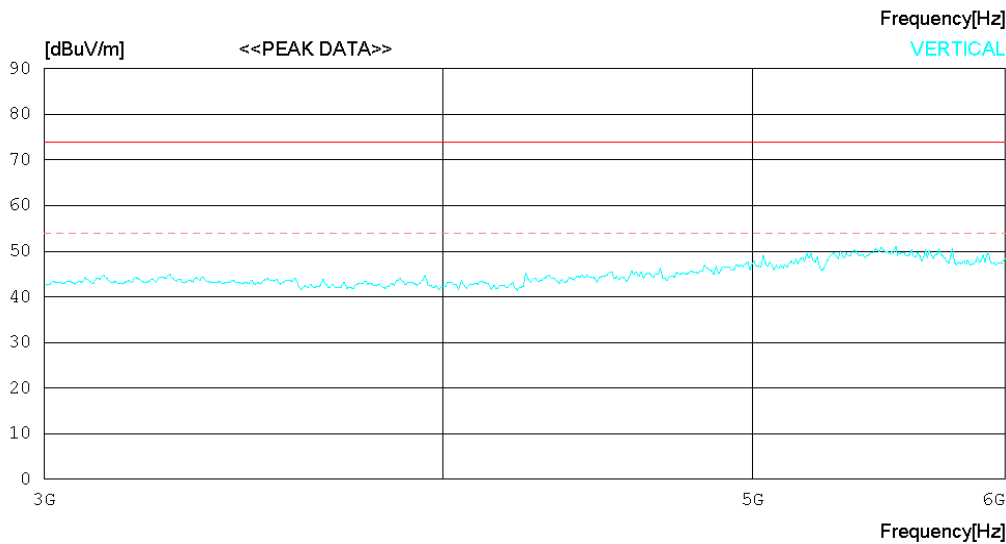
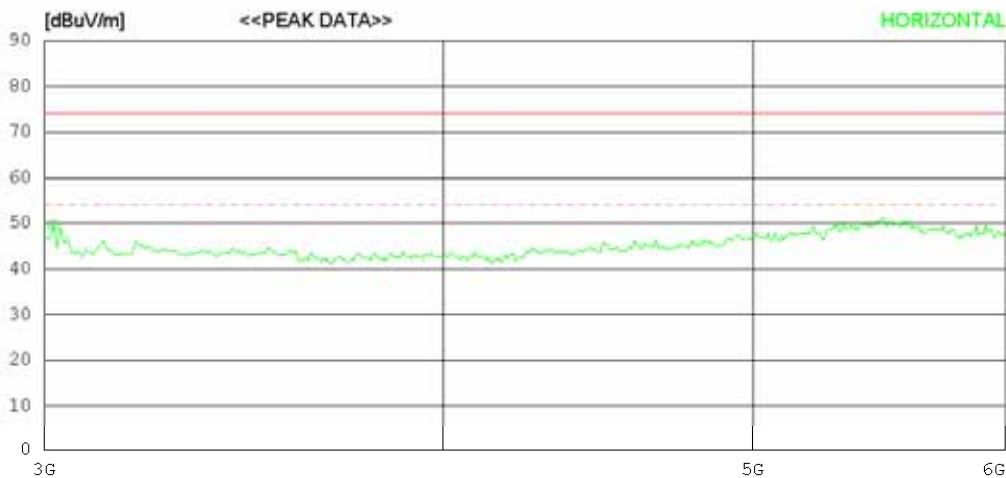
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%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 : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : DSUB
Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20'C 38%R.H.
Operator :
Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	3019.245	53.3	28.8	8.8	41.3	49.6	74.0	24.4	101	219

- 3GHz-6GHz_Average



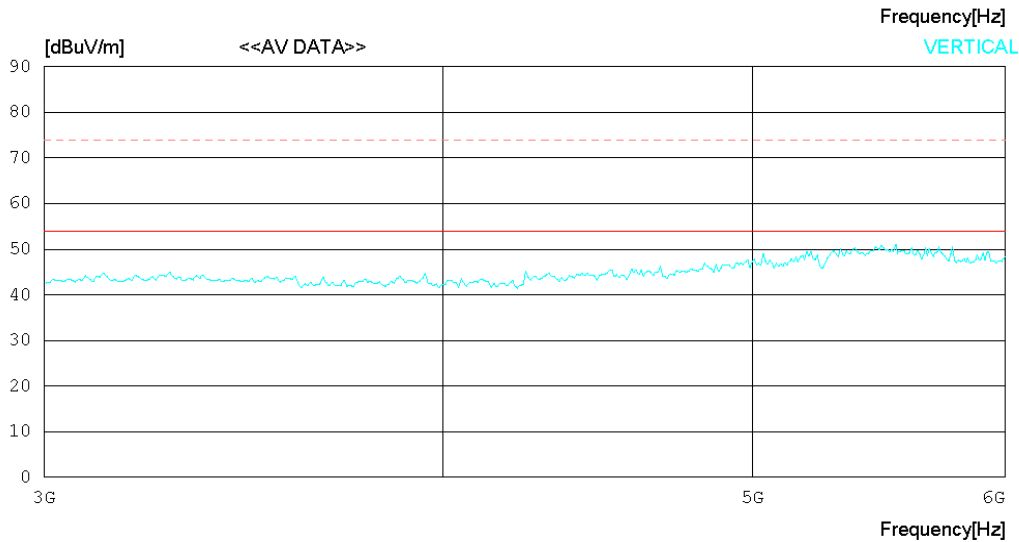
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%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 : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : DSUB
Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20'C 38%R.H.
Operator :
Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		AV	FACTOR							
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	3019.245	30.1	28.8	8.8	41.3	26.4	54.0	27.6	101	219

< HDMI MODE >

- 30MHz-1GHz



RADIATED EMISSION

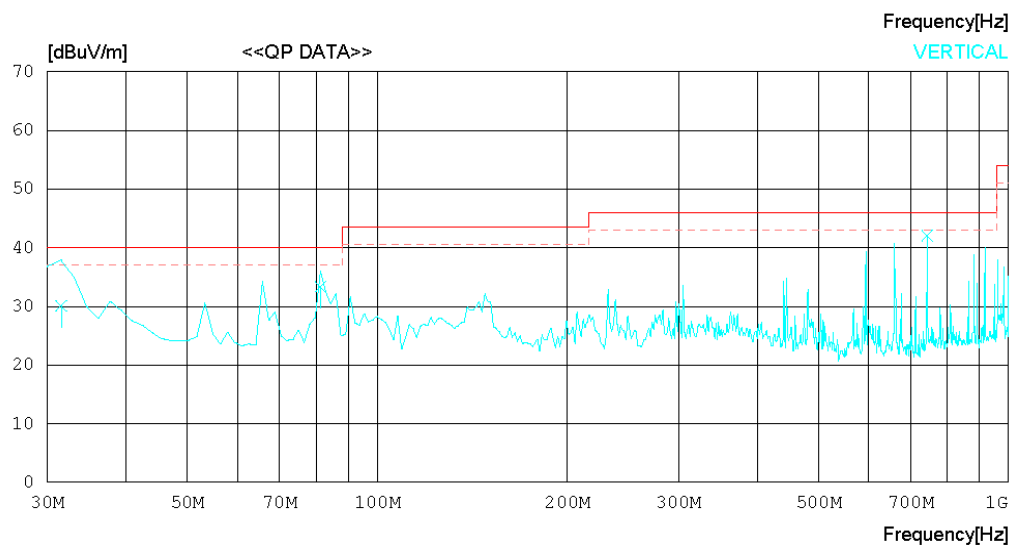
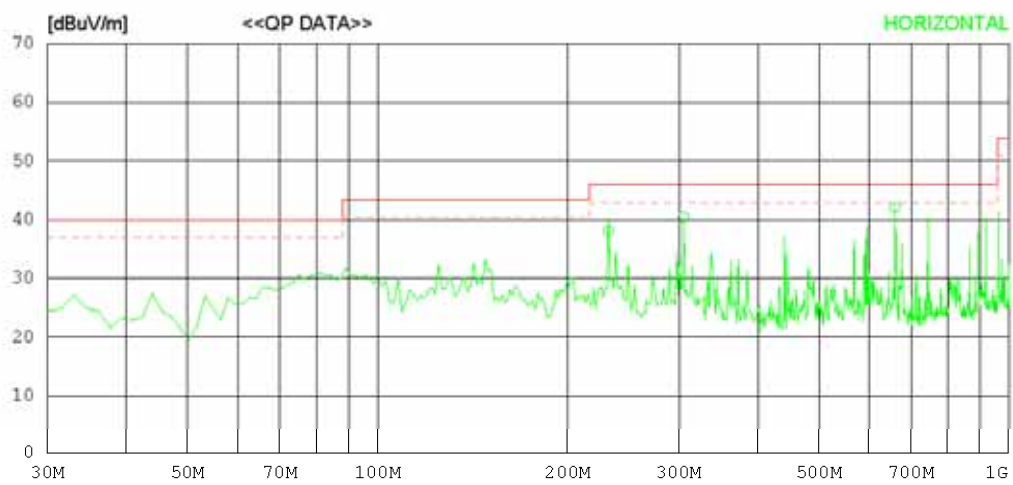
Date : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : HDMI

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

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	232.084	48.0	11.8	1.8	23.5	38.1	46.0	7.9	100	189
2	305.144	48.2	14.0	2.0	23.8	40.4	46.0	5.6	201	1
3	659.567	44.4	18.8	3.1	24.2	42.1	46.0	3.9	100	195
----- Vertical -----										
4	31.554	34.8	17.2	0.7	22.6	30.1	40.0	9.9	100	358
5	81.298	47.6	7.4	1.1	22.7	33.4	40.0	6.6	100	358
6	743.510	43.2	19.5	3.4	24.0	42.1	46.0	3.9	100	241

- 1GHz-3GHz_Peak



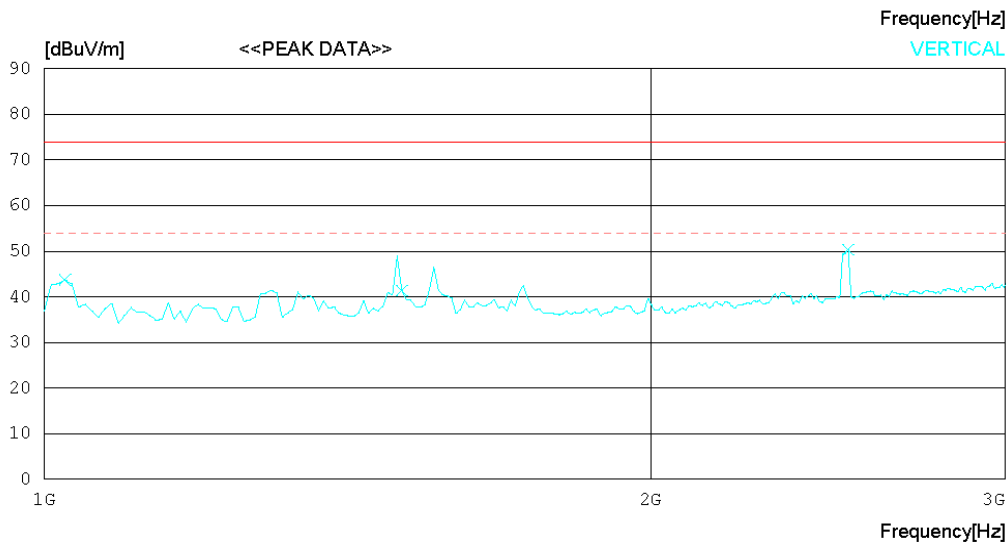
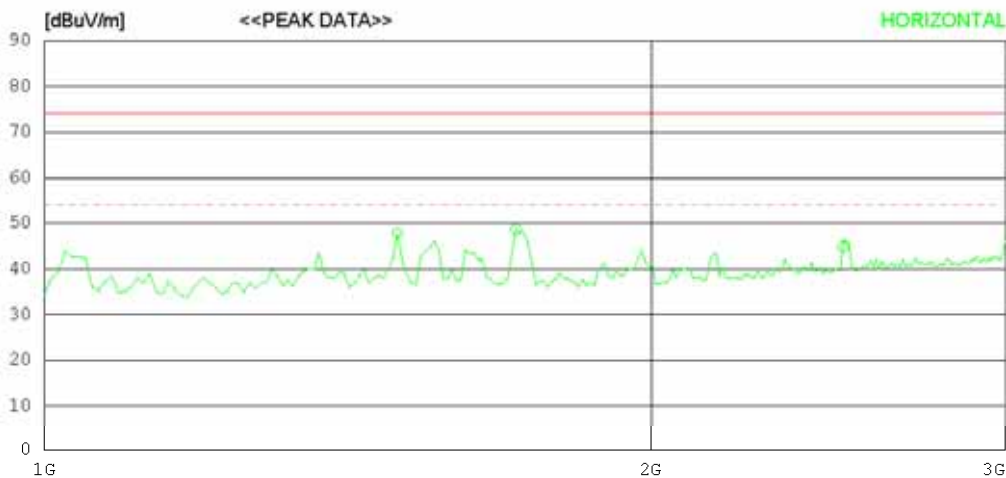
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%R.H.
Test Condition	:	HDMI	Operator	:	
Memo	:				

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1496.795	58.7	25.1	5.9	41.9	47.8	74.0	26.2	100	151
2	1713.141	59.3	25.2	6.0	41.9	48.6	74.0	25.4	100	270
3	2490.391	53.1	27.3	6.4	41.9	44.9	74.0	29.1	100	358
----- Vertical -----										
4	1024.038	57.0	23.7	4.9	41.9	43.7	74.0	30.3	100	151
5	1504.807	52.2	25.1	6.0	41.9	41.4	74.0	32.6	100	1
6	2506.417	56.9	27.3	7.8	41.6	50.4	74.0	23.6	100	38

- 1GHz-3GHz_Average



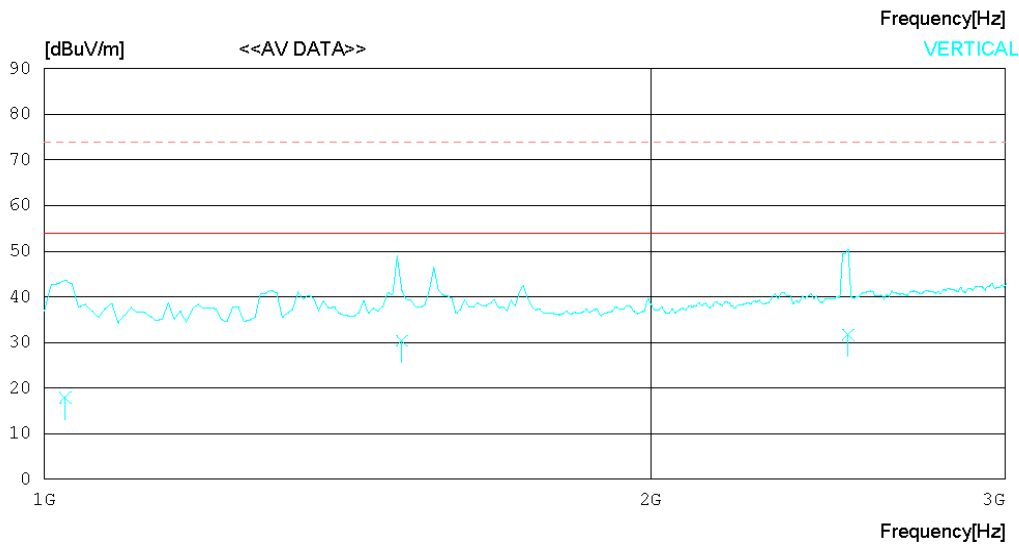
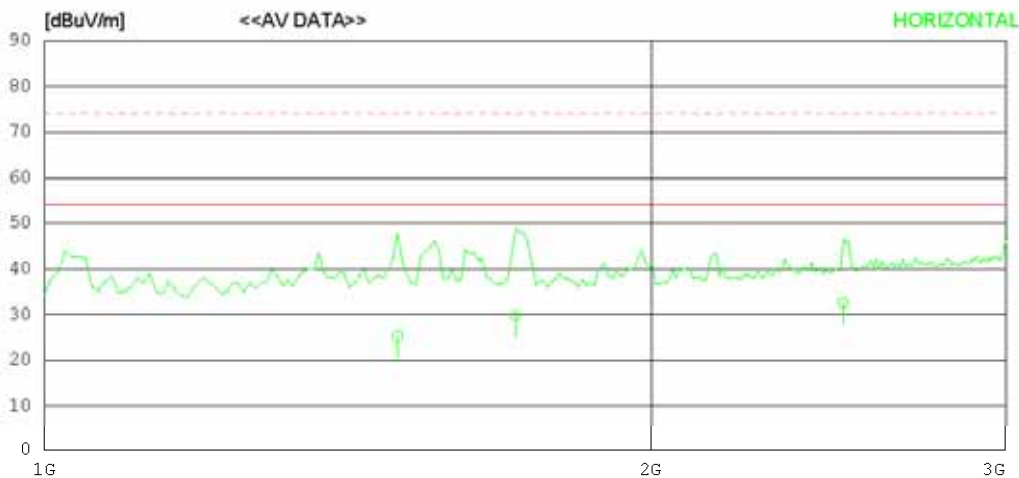
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1496.795	36.2	25.1	5.9	41.9	25.3	54.0	28.7	100	151
2	1713.141	40.1	25.2	6.4	41.9	29.8	54.0	24.2	100	270
3	2490.391	39.2	27.3	7.7	41.6	32.6	54.0	21.4	100	358
----- Vertical -----										
4	1024.038	31.2	23.7	4.9	41.9	17.9	54.0	36.1	100	151
5	1504.807	41.2	25.1	6.0	41.9	30.4	54.0	23.6	100	1
6	2506.417	38.2	27.3	7.8	41.6	31.7	54.0	22.3	100	38

- 3GHz-6GHz_Peak



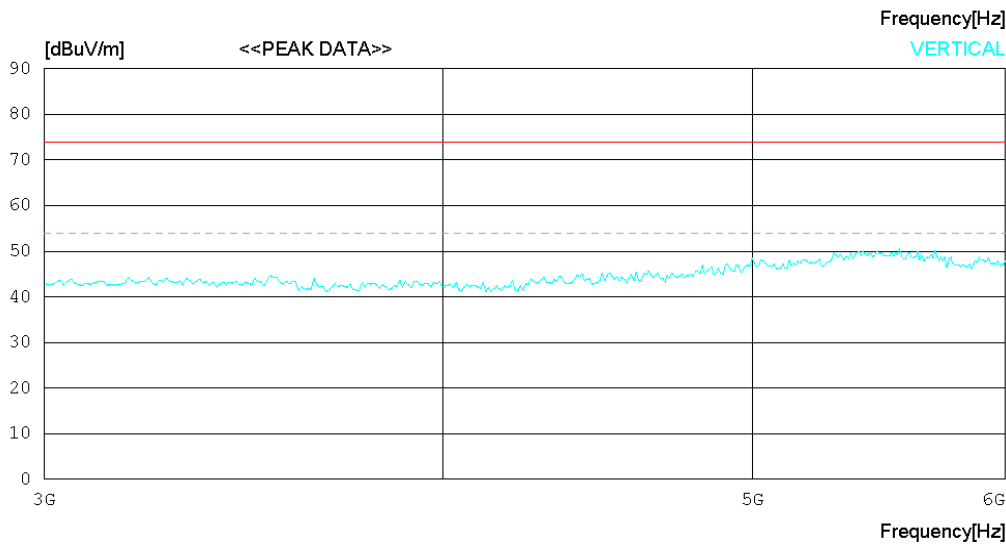
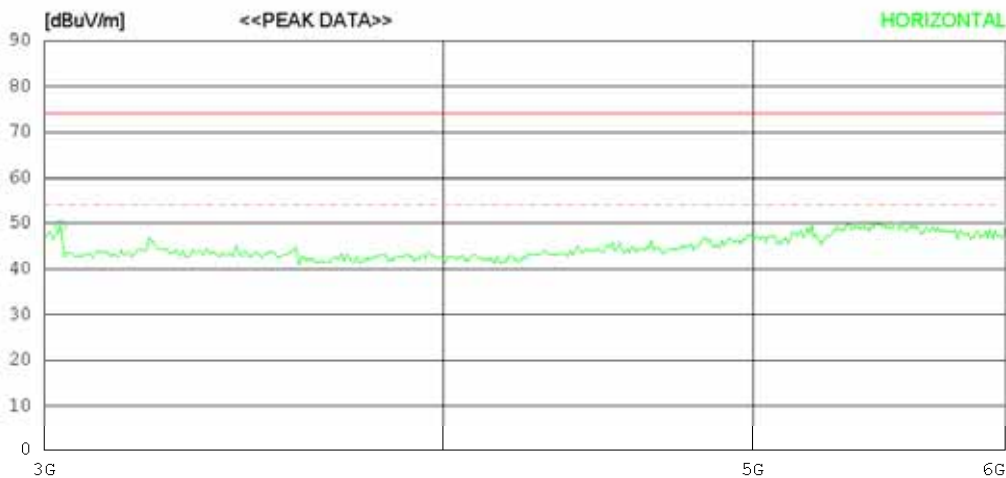
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : HDMI
Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20'C 38%R.H.
Operator :
Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	3035.271	53.1	28.8	8.8	41.3	49.4	74.0	24.6	100	227

- 3GHz-6GHz_Average



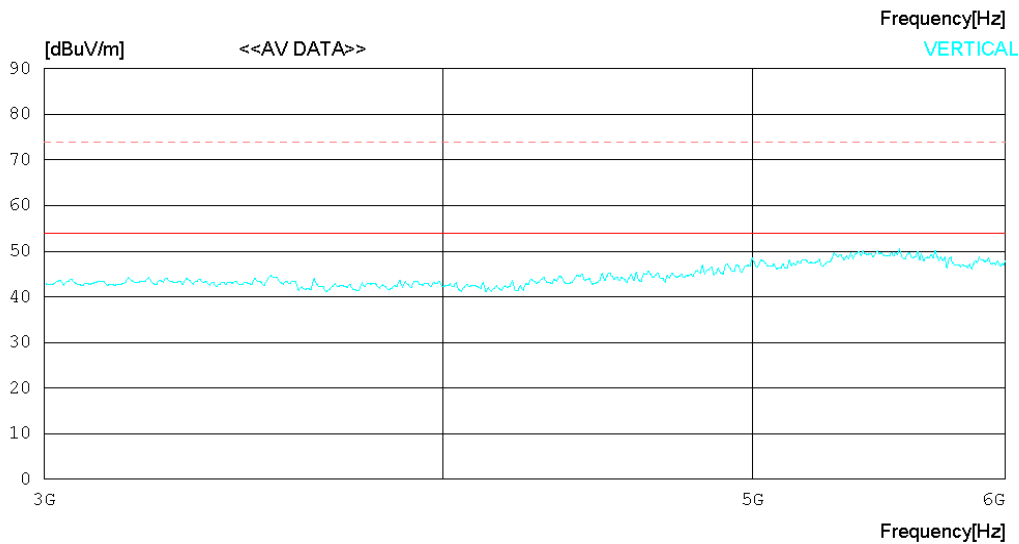
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : HDMI
Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20'C 38%R.H.
Operator :
Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		AV	FACTOR							
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	3035.271	35.6	28.8	8.8	41.3	31.9	54.0	22.1	100	227

< USB MODE >

- 30MHz-1GHz



RADIATED EMISSION

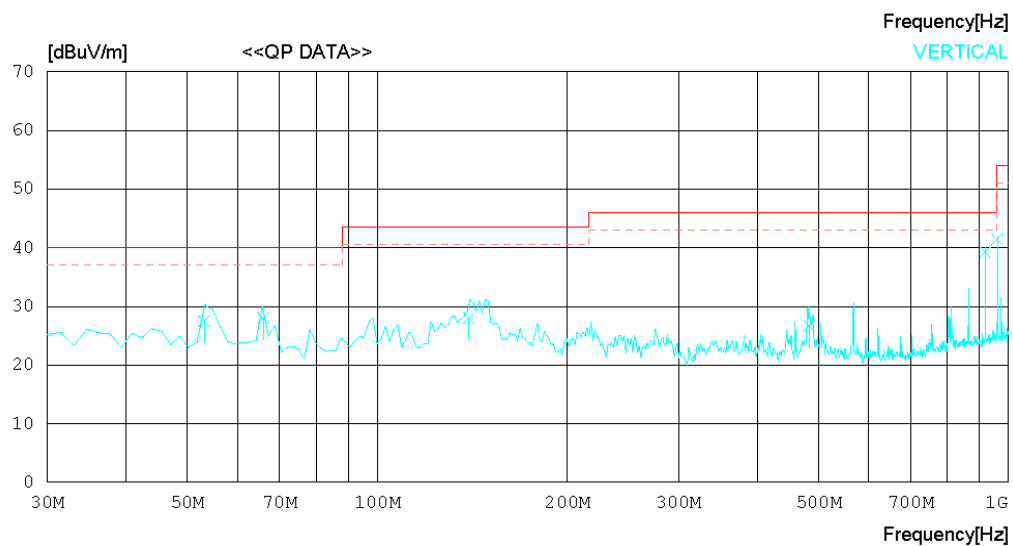
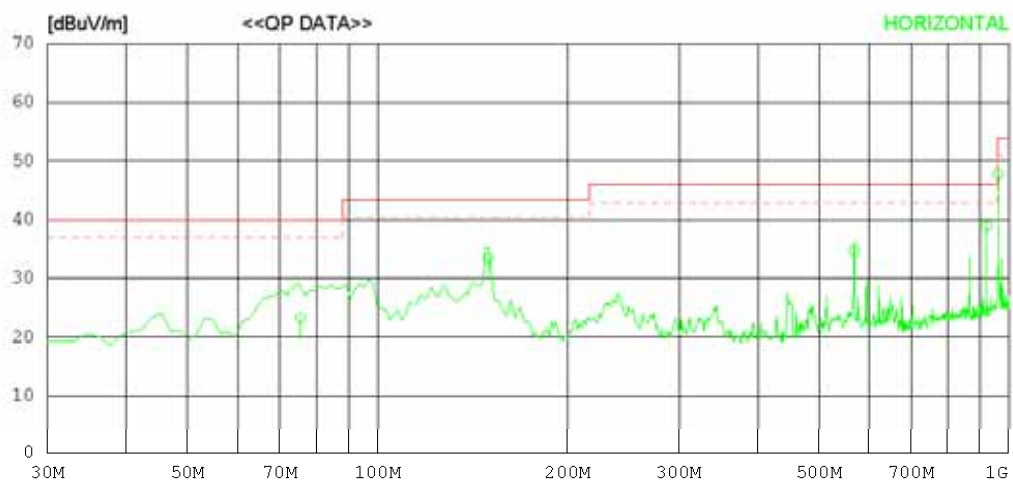
Date : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : USB

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

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%R.H.
Test Condition	:	USB	Operator	:	

Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	75.442	38.2	6.8	1.0	22.7	23.3	40.0	16.7	199	189
2	149.655	44.5	10.5	1.4	23.0	33.4	43.5	10.1	100	166
3	567.889	37.9	18.4	2.8	24.4	34.7	46.0	11.3	100	1
4	920.470	37.8	20.7	3.6	23.1	39.0	46.0	7.0	100	1
5	960.179	46.0	21.0	3.7	23.0	47.7	54.0	6.3	100	1
----- Vertical -----										
6	53.194	41.1	8.2	0.9	22.7	27.5	40.0	12.5	100	358
7	65.952	43.7	6.0	1.0	22.7	28.0	40.0	12.0	100	268
8	139.654	38.6	11.0	1.3	22.9	28.0	43.5	15.5	100	349
9	483.258	31.2	17.4	2.6	24.5	26.7	46.0	19.3	100	358
10	919.623	38.0	20.7	3.6	23.1	39.2	46.0	6.8	300	0
11	960.179	39.7	21.0	3.7	23.0	41.4	54.0	12.6	100	358

- 1GHz-3GHz_Peak



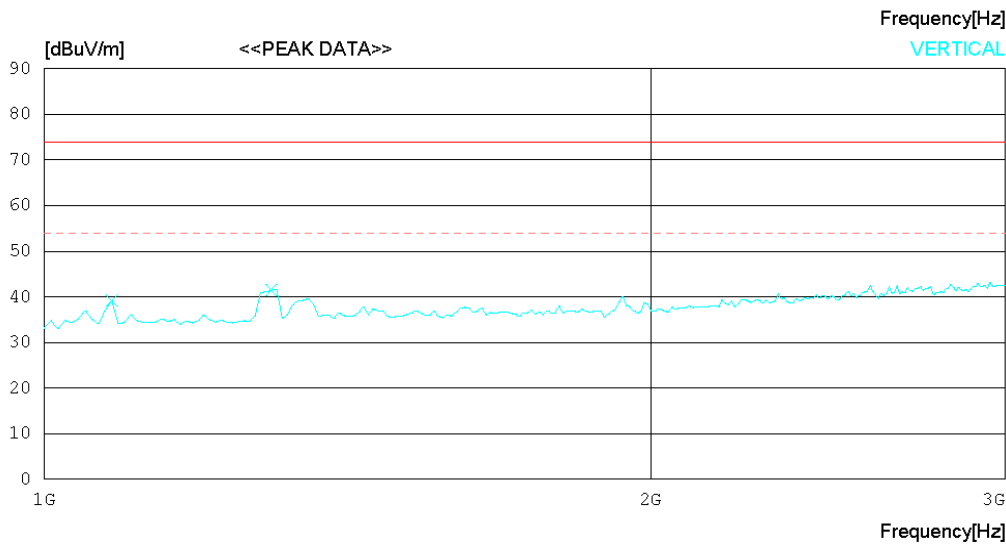
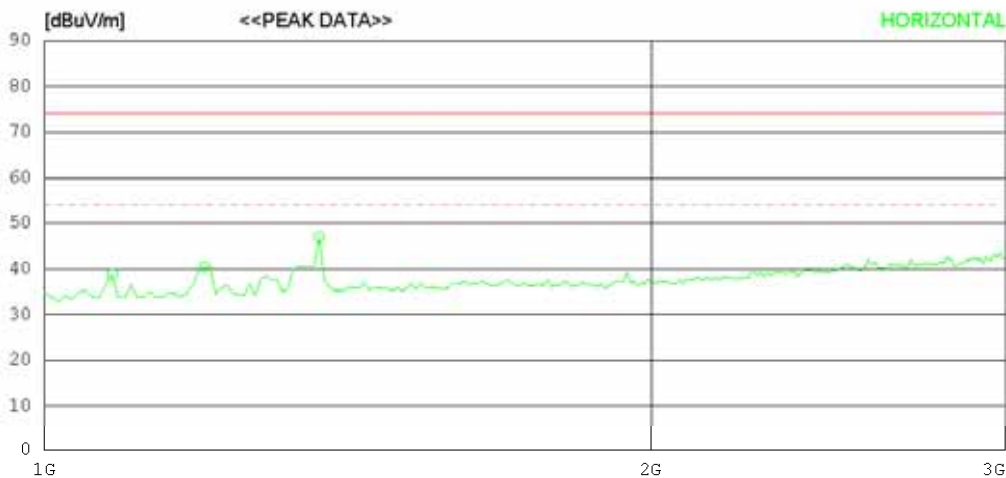
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: USB	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%R.H.
Test Condition	:	USB	Operator	:	

Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1080.128	51.8	23.9	5.0	41.9	38.8	74.0	35.2	100	207
2	1200.320	52.8	24.2	5.3	41.9	40.4	74.0	33.6	100	159
3	1368.590	58.5	24.7	5.7	41.9	47.0	74.0	27	201	358
----- Vertical -----										
4	1080.128	52.2	23.9	5.0	41.9	39.2	74.0	34.8	100	191
5	1296.474	53.4	24.5	5.5	41.9	41.5	74.0	32.5	100	159

- 1GHz-3GHz_Average



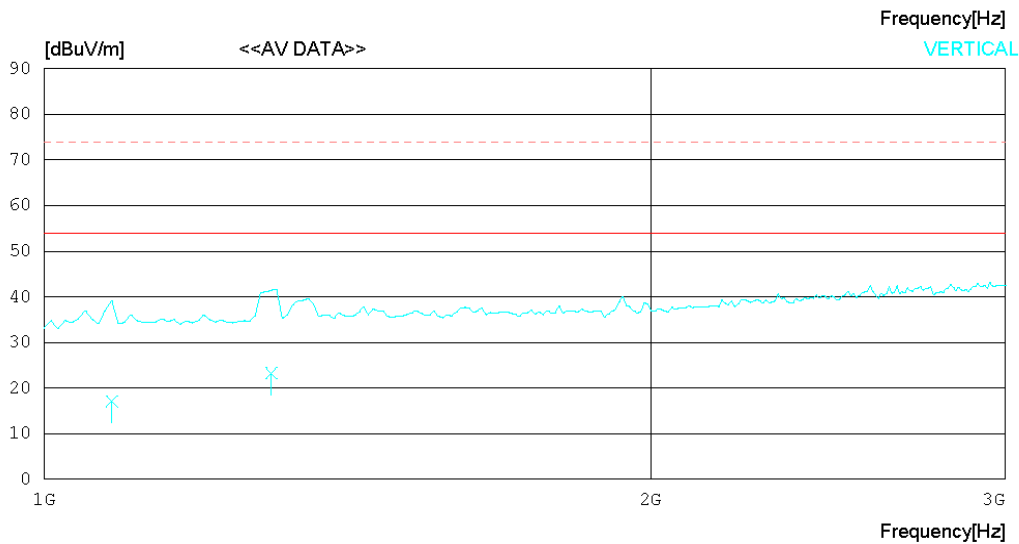
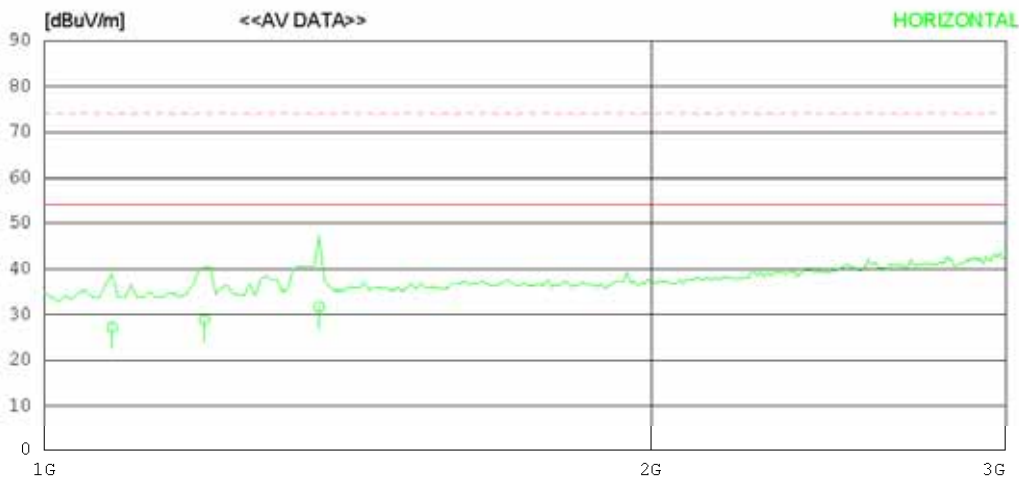
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: USB	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name	:	42LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	20°C 38%R.H.
Test Condition	:	USB	Operator	:	
Memo	:				

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
		[dBuV]	[dB]							
----- Horizontal -----										
1	1080.128	40.1	23.9	5.0	41.9	27.1	54.0	26.9	100	207
2	1200.320	41.2	24.2	5.3	41.9	28.8	54.0	25.2	100	159
3	1368.590	43.2	24.7	5.7	41.9	31.7	54.0	22.3	201	358
----- Vertical -----										
4	1080.128	30.1	23.9	5.0	41.9	17.1	54.0	36.9	100	191
5	1296.474	35.2	24.5	5.5	41.9	23.3	54.0	30.7	100	159

- 3GHz-6GHz_Peak



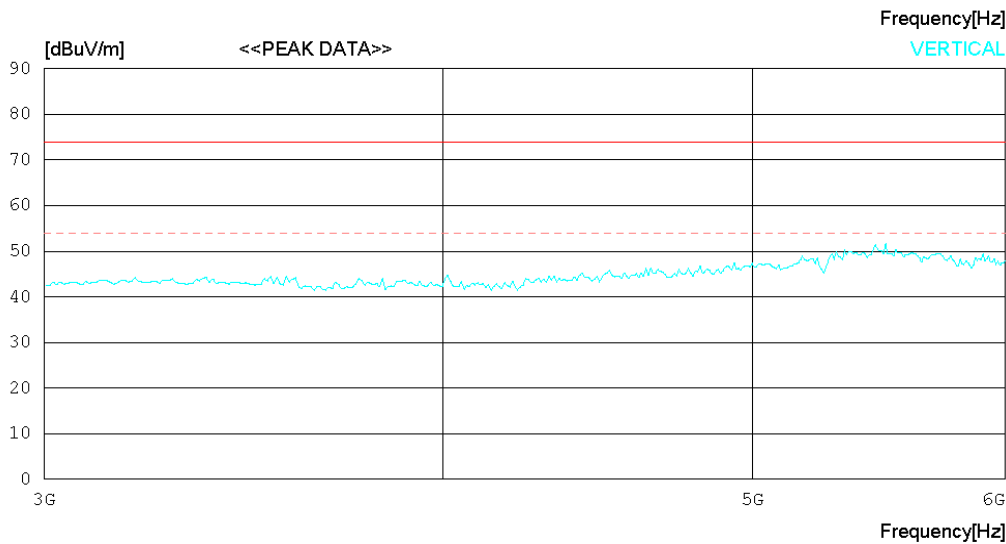
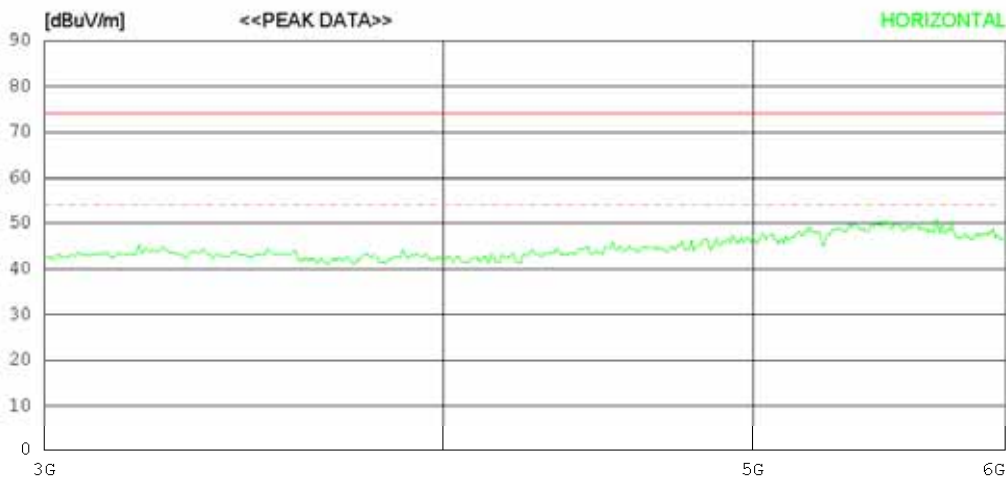
RADIATED EMISSION

Date : 2010-10-29

Model Name	: 42LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20°C 38%R.H.
Test Condition	: USB	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2010-10-29

Model Name : 42LD320H-UA
Model No. :
Serial No. :
Test Condition : USB
Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20'C 38%R.H.
Operator :
Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		PEAK	FACTOR							
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]

There are no emissions as above data plots.