

EMC TEST REPORT

Test item : LED LCD TV Monitor
Model No. : 42LM3400-UC
Order No. : 1204-00294
Date of receipt : 2012-04-09
Test duration : 2012-04-12 ~ 2012-04-13
Use of report : FCC CoC Marking
Date of Issue : 2012-04-16

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 : 20 °C,
Humidity : (37 ~ 38) % 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.

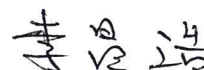
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Tested by:



Assistant Manager
D.H.EUN

Reviewed by:



General Manager
C.H.LEE

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

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".

3. General Information of EUT

Model No.	42LM3400-UC
EUT Type	LED LCD TV Monitor
Serial No	N/A
FCC ID	BEJ42LM3400UC
Type of Sample Tested	Pre-Production
High Frequency	667 MHz
Rating	AC100-240 V~, 50/60 Hz
Supplied Power for Test	AC120 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)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1360 x 768	47.712	60.015
1152 x 864	54.348	60.053
1280 x 1024	63.981	60.02
1920 x 1080	67.50	60.00

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2003	C
Radiated Disturbance	ANSI C63.4:2003	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

The data in this test report are traceable to the national or international standards.

4.2 Test environment and conditions

Test Items	Test date (MM-DD)	Temp (°C)	Humidity (% R.H.)	Pressure (hPa)
Conducted Disturbance	04-12	20	38	-
Radiated Disturbance	04-13	20	37	

4.3 Test result Summary

(1) Conducted Emission(USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15000	N	52.5	Quasi-Peak	66.0	13.5

(2) Radiated Emission(USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
959.997	H	42.6	Quasi-Peak	46.0	3.4

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

Emission : The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

5.2 Test Operation Mode

- HDMI MODE – Resolution : 1920 x 1080 Resolution (Worst Case)
- USB MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTRO 430	9K77SBX	DELL	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				PS/2	1.6	Not use	Non-shield		
				PS/2	1.8	Not use	Non-shield		
KEYBOARD	SKG-210PB	TAKZ129860X	MONITEREY INTERNATIONAL CORP	PS/2	1.6	Not use	Non-shield	Plastic	DOC
MOUSE	SML-510P	TAKS700467Y	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER AV	1.8 1.6	Not use	Non-shield	Plastic	VER
USB MEMORY	JEWELRY	N/A	AXXEN	USB	-	-	-	-	DOC

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, 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 0.8m 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 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 0.15MHz to 0.5MHz.

Test Result

< HDMI MODE >



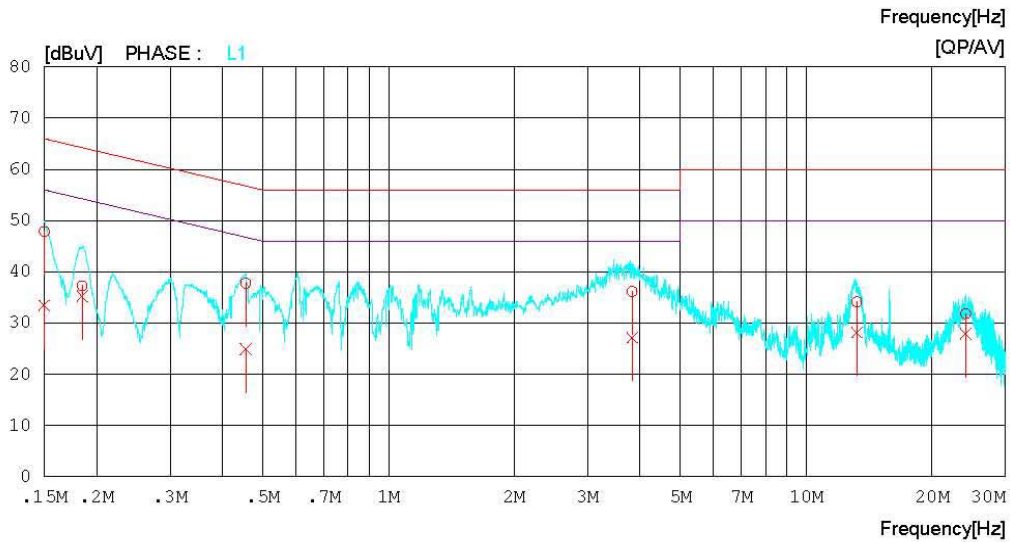
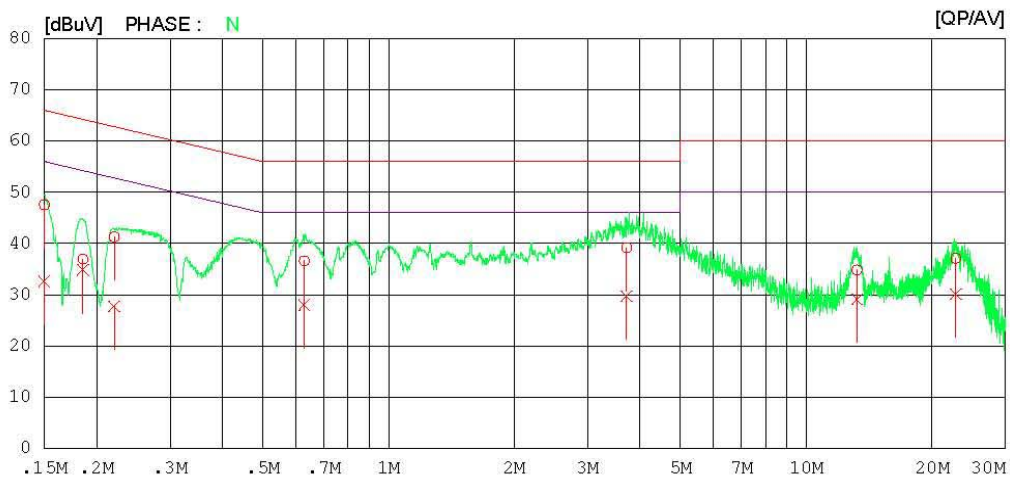
Results of Conducted Emission

Digital EMC
Date : 2012-04-12

Model No.	: 42LM3400-UC	Reference No.	:
Type	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi.	: 20 °C 38 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2012-04-12

Model No. :	42LM3400-UC	Reference No. :	
Type :		Power Supply :	120V 60Hz
Serial No. :		Temp/Humi. :	20 °C 38 % R.H.
Test Condition :	HDMI	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	0.15000	47.2	32.3	0.3	47.5	32.6	66.0	56.0	18.5	23.4	N
2	0.18546	36.7	34.6	0.2	36.9	34.8	64.2	54.2	27.3	19.4	N
3	0.22061	41.0	27.5	0.2	41.2	27.7	62.8	52.8	21.6	25.1	N
4	0.62861	36.4	27.8	0.2	36.6	28.0	56.0	46.0	19.4	18.0	N
5	3.71650	38.7	29.3	0.4	39.1	29.7	56.0	46.0	16.9	16.3	N
6	13.23500	33.9	28.2	0.9	34.8	29.1	60.0	50.0	25.2	20.9	N
7	22.80850	35.9	28.9	1.2	37.1	30.1	60.0	50.0	22.9	19.9	N
8	0.15000	47.6	33.1	0.3	47.9	33.4	66.0	56.0	18.1	22.6	L1
9	0.18483	37.1	35.0	0.2	37.3	35.2	64.3	54.3	27.0	19.1	L1
10	0.45535	37.6	24.7	0.2	37.8	24.9	56.8	46.8	19.0	21.9	L1
11	3.83200	35.8	26.8	0.4	36.2	27.2	56.0	46.0	19.8	18.8	L1
12	13.23000	33.3	27.3	0.9	34.2	28.2	60.0	50.0	25.8	21.8	L1
13	24.09350	30.6	26.7	1.2	31.8	27.9	60.0	50.0	28.2	22.1	L1

< USB MODE >



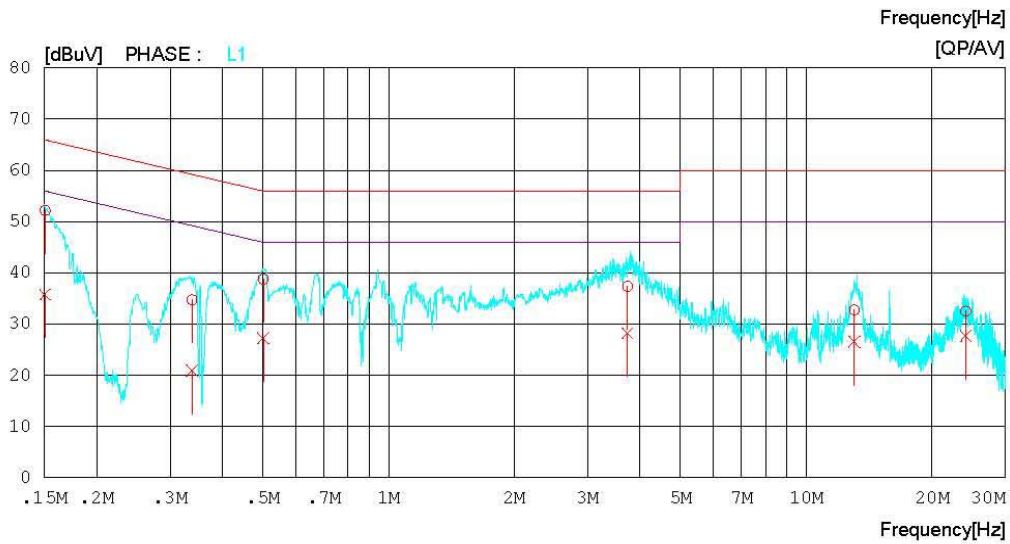
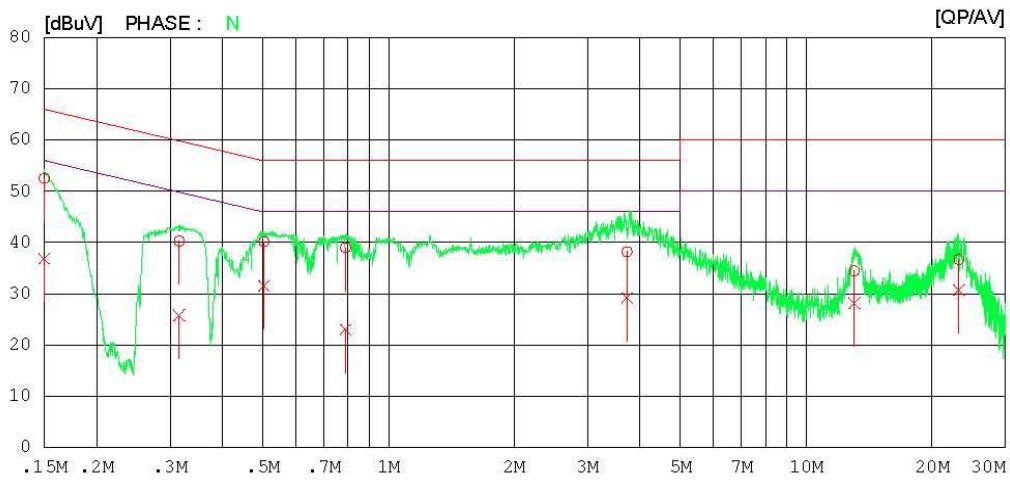
Results of Conducted Emission

Digital EMC
Date : 2012-04-12

Model No.	: 42LM3400-UC	Reference No.	:
Type	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi.	: 20 °C 38 % R.H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2012-04-12

Model No.	: 42LM3400-UC	Reference No.	:
Type	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi.	: 20 °C 38 % R.H.
Test Condition	: USB	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	0.15000	52.2	36.5	0.3	52.5	36.8	66.0	56.0	13.5	19.2	N
2	0.31550	40.1	25.6	0.2	40.3	25.8	59.8	49.8	19.5	24.0	N
3	0.50333	40.0	31.3	0.2	40.2	31.5	56.0	46.0	15.8	14.5	N
4	0.78938	38.8	22.8	0.2	39.0	23.0	56.0	46.0	17.0	23.0	N
5	3.72600	37.8	28.7	0.4	38.2	29.1	56.0	46.0	17.8	16.9	N
6	13.04300	33.5	27.3	0.9	34.4	28.2	60.0	50.0	25.6	21.8	N
7	23.19700	35.5	29.5	1.2	36.7	30.7	60.0	50.0	23.3	19.3	N
8	0.15071	51.9	35.5	0.3	52.2	35.8	66.0	56.0	13.8	20.2	L1
9	0.33850	34.4	20.7	0.3	34.7	21.0	59.2	49.2	24.5	28.2	L1
10	0.50146	38.6	27.1	0.2	38.8	27.3	56.0	46.0	17.2	18.7	L1
11	3.73250	37.0	27.8	0.4	37.4	28.2	56.0	46.0	18.6	17.8	L1
12	13.04000	31.9	25.6	0.9	32.8	26.5	60.0	50.0	27.2	23.5	L1
13	24.11050	31.4	26.5	1.2	32.6	27.7	60.0	50.0	27.4	22.3	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 0.8m above the reference ground plane and 3m 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 0.15m 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 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	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 (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 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.

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

(2) 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)	Average (dB μ V/m)	Peak (dB μ V/m)	Average (dB μ V/m)
1 to 40	80	60	74	54

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

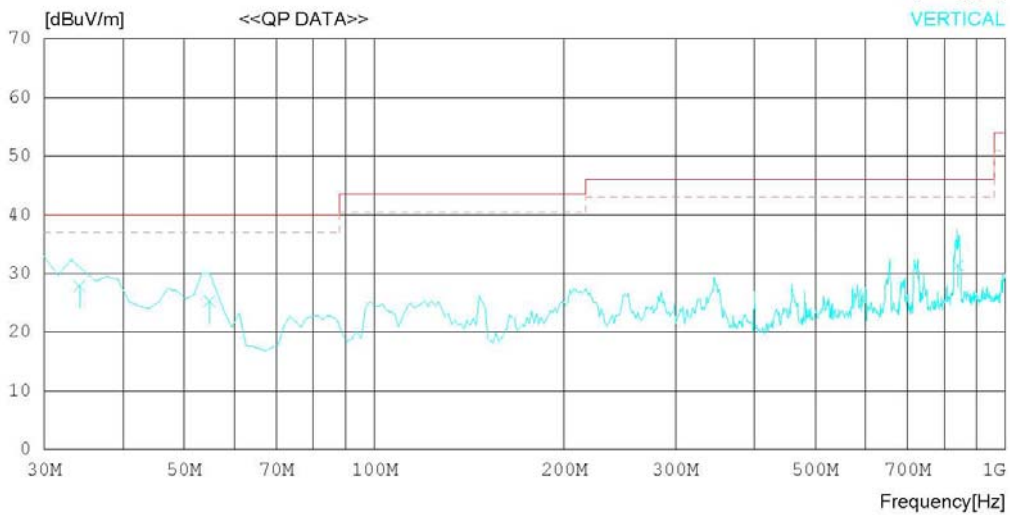
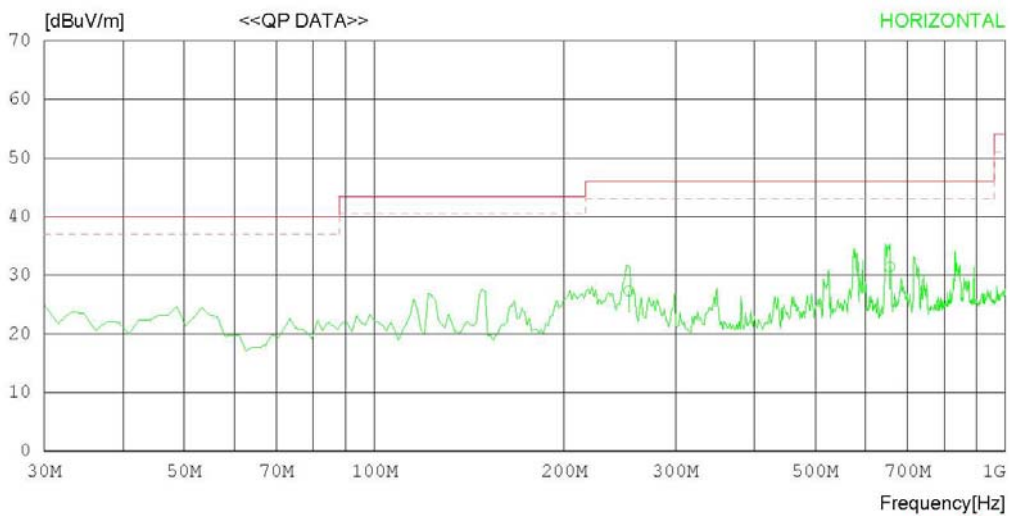
Date : 2012-04-13

Model Name : 42LM3400-UC
Model No. :
Serial No. :
Test Condition : HDMI

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

Memo :

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



RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % 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	253.129	35.4	13.1	2.4	23.6	27.3	46.0	18.7	100	358
2	655.506	33.1	18.8	4.0	24.5	31.4	46.0	14.6	100	358
----- Vertical -----										
3	34.106	33.3	16.8	0.9	23.1	27.9	40.0	12.1	301	264
4	54.833	39.4	7.5	1.1	22.7	25.3	40.0	14.7	100	176
5	841.100	30.0	20.5	4.4	23.5	31.4	46.0	14.6	100	202

< HDMI MODE_1 GHz ~ 6 GHz_Peak >

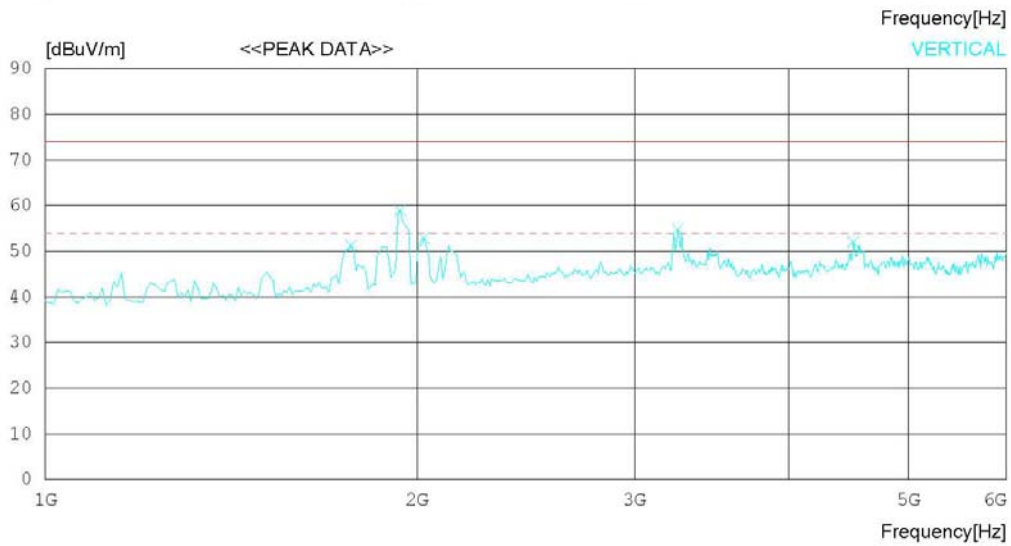
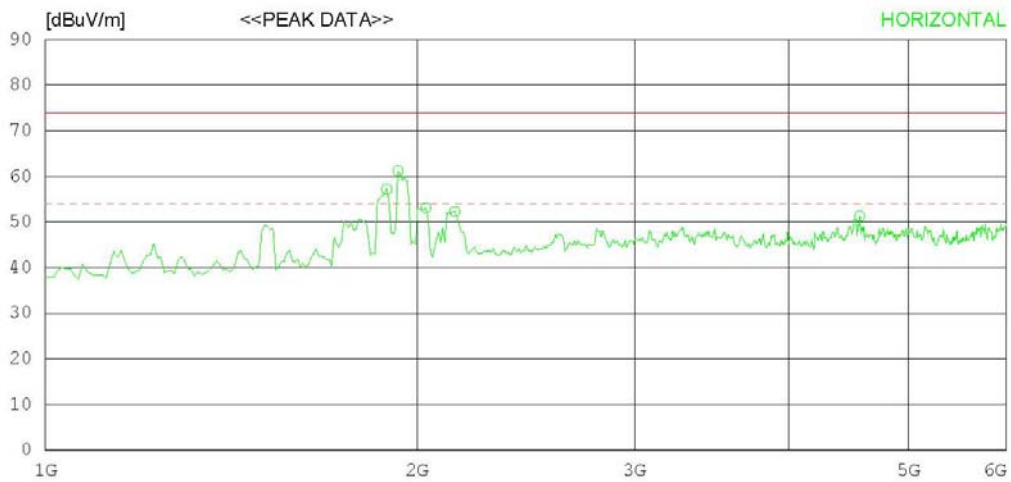
RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1889.423	64.5	27.6	6.8	41.7	57.2	74.0	16.8	100	195
2	1929.487	68.3	27.7	6.9	41.7	61.2	74.0	12.8	100	1
3	2033.653	59.7	28.0	7.1	41.7	53.1	74.0	20.9	100	1
4	2145.834	58.5	28.3	7.2	41.7	52.3	74.0	21.7	100	1
5	4565.728	49.7	32.9	10.7	42.0	51.3	74.0	22.7	100	230
----- Vertical -----										
6	1769.230	59.5	27.1	6.5	41.8	51.3	74.0	22.7	100	358
7	1937.500	66.1	27.7	6.9	41.7	59.0	74.0	15	100	358
8	2025.641	59.6	28.0	7.0	41.7	52.9	74.0	21.1	100	358
9	3251.620	57.0	30.5	9.1	41.8	54.8	74.0	19.2	100	184
10	4509.639	50.5	32.8	10.7	42.0	52.0	74.0	22	100	186

< HDMI MODE_1 GHz ~ 6 GHz_Average >

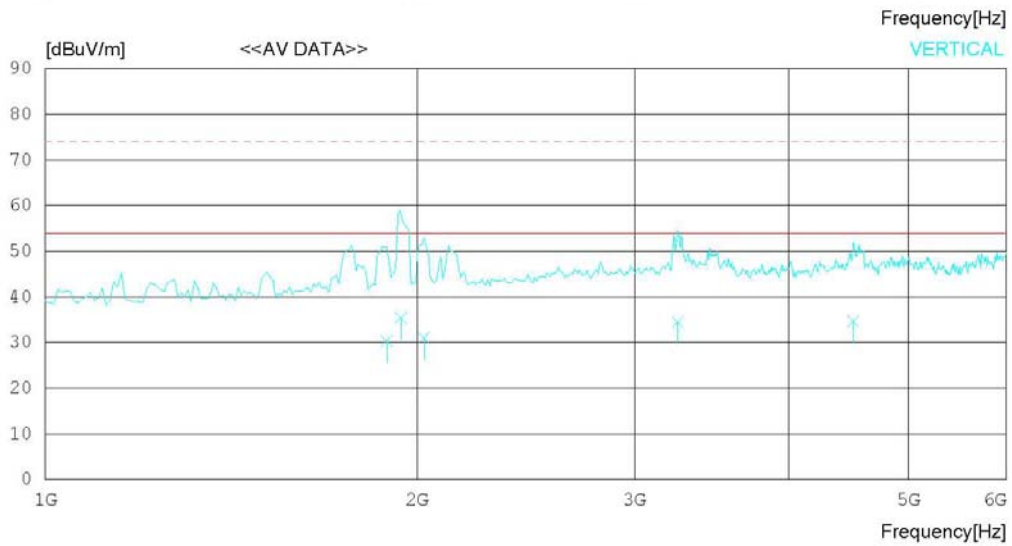
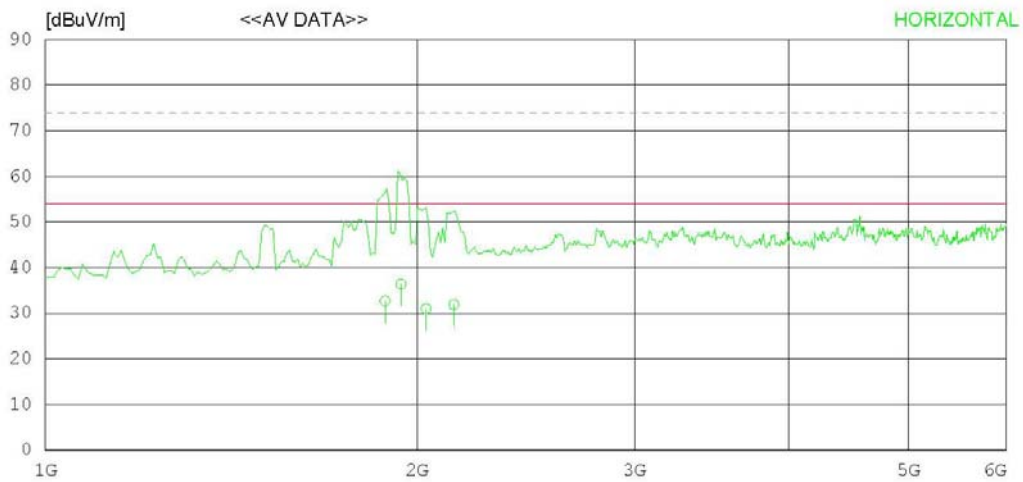
RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

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

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1884.000	40.1	27.5	6.8	41.7	32.7	54.0	21.3	100	195
2	1940.218	43.5	27.7	6.9	41.7	36.4	54.0	17.6	100	1
3	2033.653	37.6	28.0	7.1	41.7	31.0	54.0	23.0	100	1
4	2141.460	38.2	28.2	7.2	41.7	31.9	54.0	22.1	100	1
----- Vertical -----										
5	1890.000	37.7	27.6	6.8	41.7	30.4	54.0	23.6	100	358
6	1940.000	42.5	27.7	6.9	41.7	35.4	54.0	18.6	100	358
7	2025.641	37.8	28.0	7.0	41.7	31.1	54.0	22.9	100	358
8	3251.620	36.7	30.5	9.1	41.8	34.5	54.0	19.5	100	184
9	4509.639	33.2	32.8	10.7	42.0	34.7	54.0	19.3	100	186

< USB MODE_30 MHz ~ 1 GHz >

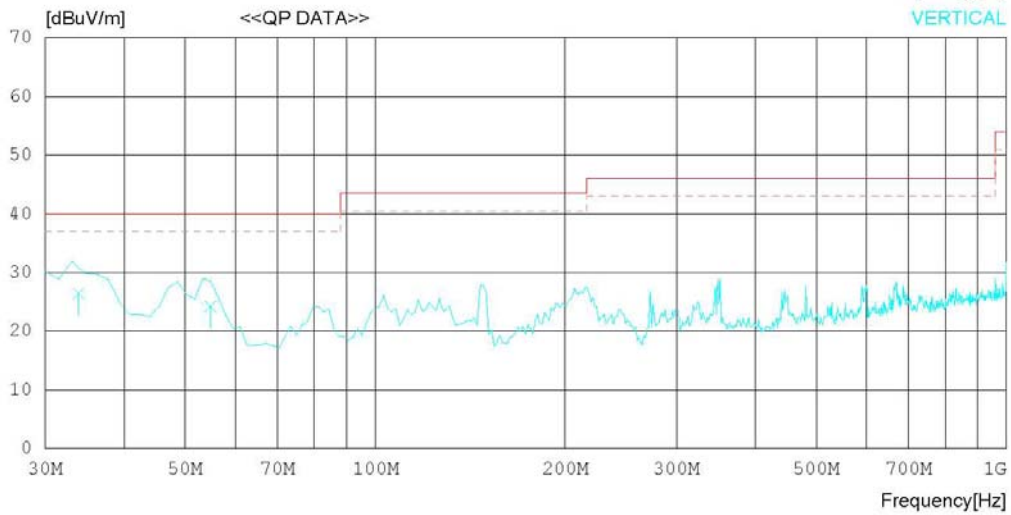
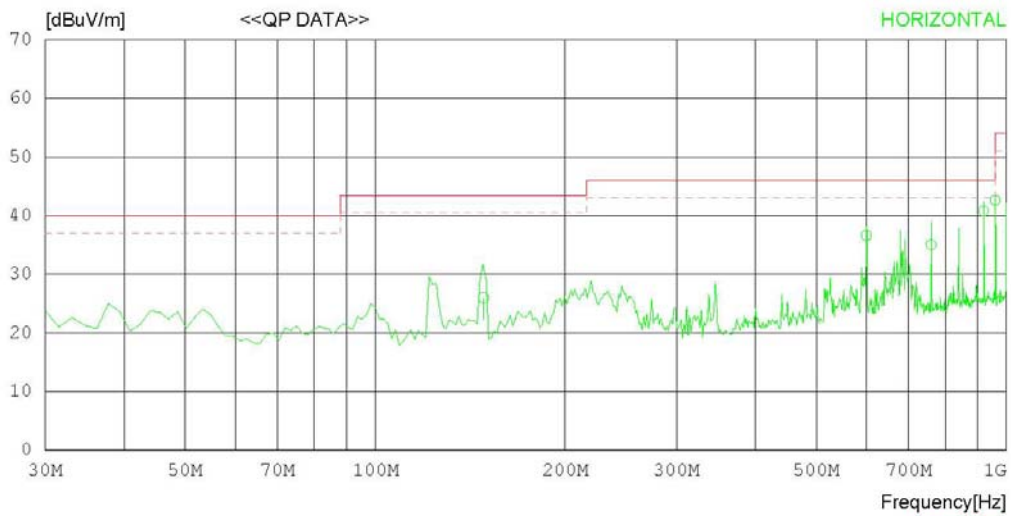
RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: USB	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % 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	148.500	36.9	10.5	1.7	23.1	26.0	43.5	17.5	100	1
2	599.988	38.7	18.7	3.9	24.7	36.6	46.0	9.4	200	164
3	759.988	34.9	19.7	4.4	24.0	35.0	46.0	11.0	100	168
4	919.990	38.2	20.7	4.9	23.0	40.8	46.0	5.2	100	19
5	959.997	39.7	21.0	4.9	23.0	42.6	46.0	3.4	100	64
----- Vertical -----										
6	33.905	31.7	16.9	0.9	23.1	26.4	40.0	13.6	100	198
7	54.812	38.2	7.6	1.1	22.7	24.2	40.0	15.8	100	358

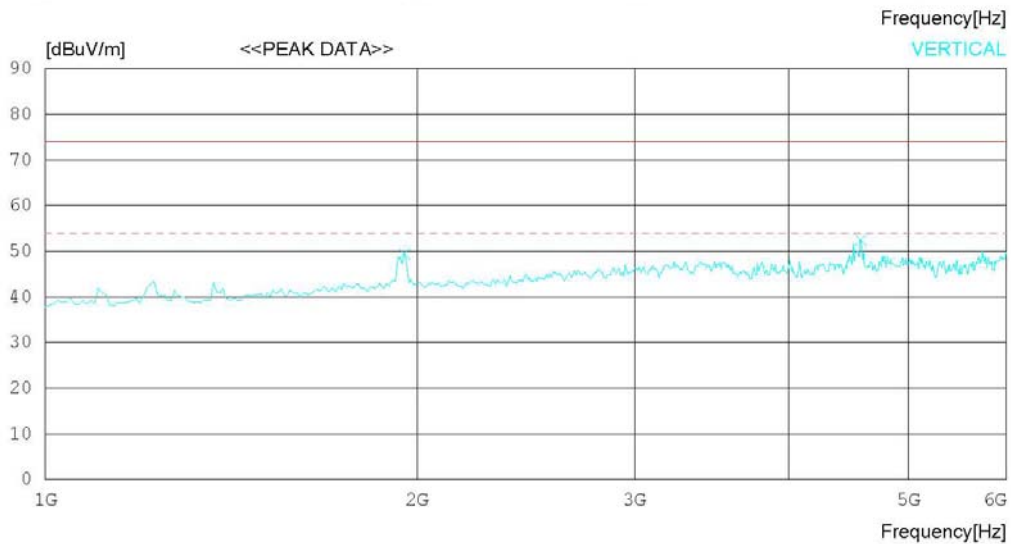
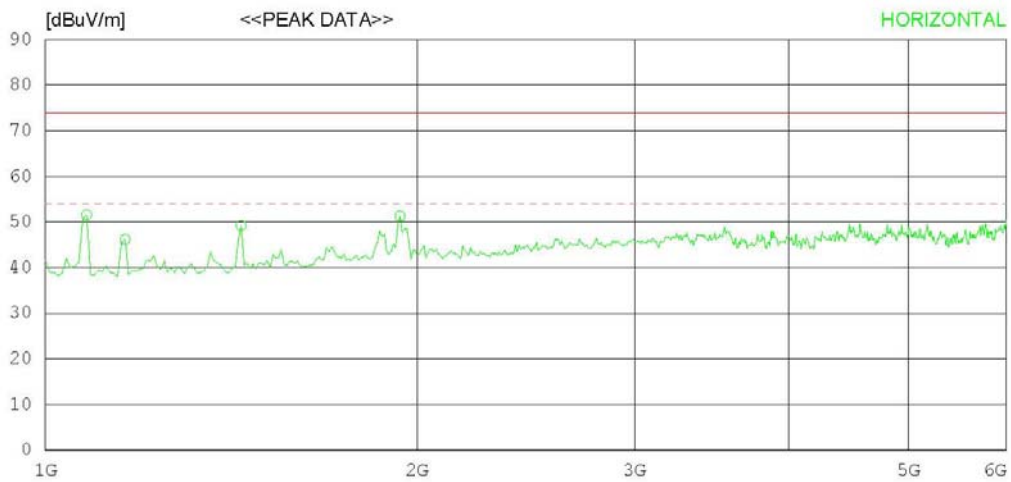
< USB MODE_1 GHz ~ 6 GHz_Peak >

RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: USB	Operator	:
Memo	:		

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



RADIATED EMISSION

Date : 2012-04-13

Model Name : 42LM3400-UC	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 20 °C 37 % R.H.
Test Condition : USB	Operator :

Memo :

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1080.128	63.9	24.5	5.0	41.8	51.6	74.0	22.4	100	358
2	1160.256	58.1	24.8	5.2	41.9	46.2	74.0	27.8	100	358
3	1440.705	59.1	25.9	5.8	41.6	49.2	74.0	24.8	100	226
4	1937.500	58.4	27.7	6.9	41.7	51.3	74.0	22.7	100	203
----- Vertical -----										
5	1953.525	56.5	27.8	6.9	41.7	49.5	74.0	24.5	100	195
6	4573.741	50.9	32.9	10.7	42.0	52.5	74.0	21.5	100	1

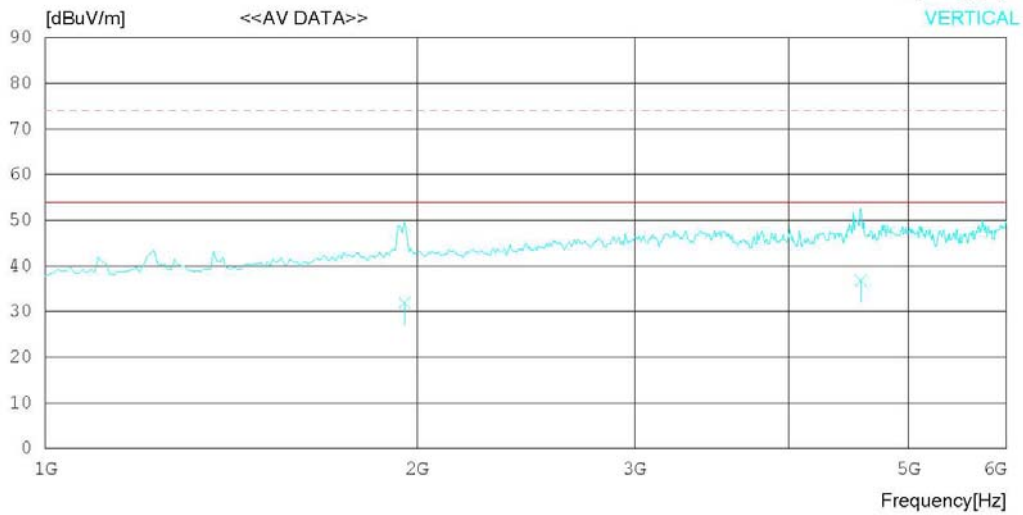
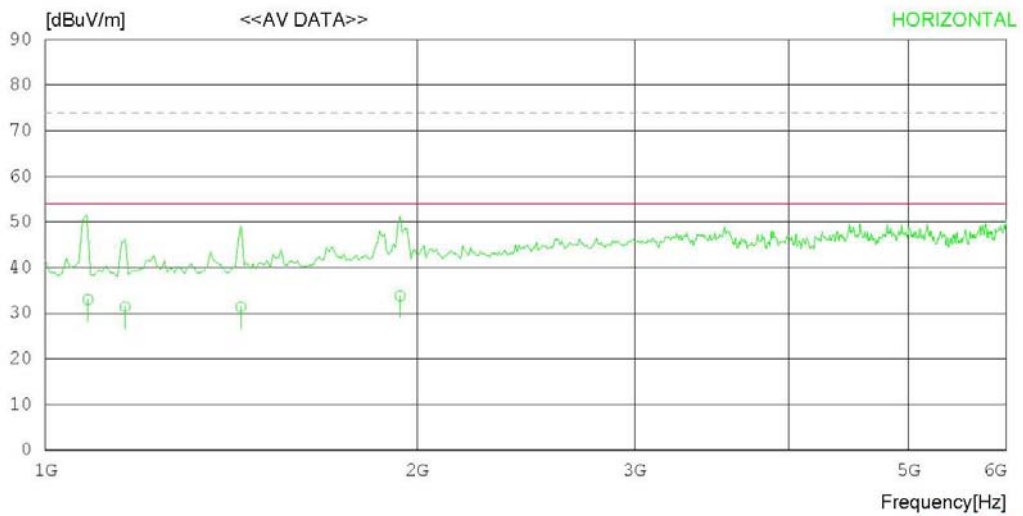
< USB MODE_1 GHz ~ 6 GHz_Average >

RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: USB	Operator	:
Memo	:		

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



RADIATED EMISSION

Date : 2012-04-13

Model Name	: 42LM3400-UC	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % R.H.
Test Condition	: USB	Operator	:

Memo :

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

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1083.000	45.3	24.5	5.0	41.8	33.0	54.0	21.0	100	358
2	1160.256	43.3	24.8	5.2	41.9	31.4	54.0	22.6	100	358
3	1439.981	41.3	25.9	5.8	41.6	31.4	54.0	22.6	100	226
4	1938.032	40.9	27.7	6.9	41.7	33.8	54.0	20.2	100	203
----- Vertical -----										
5	1953.525	38.9	27.8	6.9	41.7	31.9	54.0	22.1	100	195
6	4573.741	35.2	32.9	10.7	42.0	36.8	54.0	17.2	100	1

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
<input type="checkbox"/> SPECTRUM ANALYZER	8591E	H/P	3649A05889	2012.03.05	2013.03.05
<input type="checkbox"/> RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2011.07.02	2012.07.02
<input type="checkbox"/> LISN	KNW-407	KYORITSU	8-317-8	2012.01.09	2013.01.09
<input type="checkbox"/> LISN	KNW-242	KYORITSU	8-654-15	2011.09.19	2012.09.19
<input type="checkbox"/> 50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09
<input checked="" type="checkbox"/> EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
<input checked="" type="checkbox"/> LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2011.09.30	2012.09.30
<input checked="" type="checkbox"/> LISN	LISN1600	TTI	197204	2011.07.02	2012.07.02
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2012.01.09	2013.01.09
<input checked="" type="checkbox"/> BILOG ANTENNA	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
<input checked="" type="checkbox"/> HORN ANTENNA	3115	ETS	6419	2012.02.20	2013.02.20
<input checked="" type="checkbox"/> AMPLIFIER	8447E	H/P	2945A02865	2012.01.09	2013.01.09
<input checked="" type="checkbox"/> AMPLIFIER	MLA-00108-B02-36	TSJ	1518831	2012.01.09	2013.01.09
<input type="checkbox"/> SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2011.07.11	2012.07.11
<input type="checkbox"/> AMPLIFIER	8447D	AGILENT	2443A03690	2011.07.01	2012.07.01
<input type="checkbox"/> BILOG ANTENNA	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
<input type="checkbox"/> EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
<input type="checkbox"/> BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2010.11.29	2012.11.29
<input type="checkbox"/> LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2010.07.07	2012.07.07
<input type="checkbox"/> BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2010.12.21	2012.12.21
<input type="checkbox"/> LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2010.11.29	2012.11.29
<input type="checkbox"/> AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2012.03.05	2013.03.05