

EMC TEST REPORT

Test item : LED Monitor
Model No. : HSTND-3941-G, LD4235
Order No. : DEMC1401-00127
Date of receipt : 2014-01-13
Test duration : 2014-01-14 ~ 2014-01-15
Use of report : FCC CoC Marking
Date of Issue : 2014-01-20

Applicant : LG Electronics Inc.
222, LG-ro, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do 451-713,
REPUBLIC OF KOREA

Test laboratory : Digital EMC Co., Ltd.
42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

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 : (18 ~ 25) °C,
Humidity : (31 ~ 32) % R.H.

Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose.
This test report shall not be reproduced except in full, without the written approval of DIGITAL EMC CO., LTD.

Tested by:



Assistant Manager
HyungJun Kim

Reviewed by:



Manager
MyungJin Song

PRESIDENT OF DIGITAL EMC CO., LTD.

CONTENTS

1. General Remarks	3
2. Test Laboratory	3
3. General Information of EUT	4
4. Test Summary	5
4.1 Applied standards and test results	5
4.2 Test environment and conditions	5
4.3 Test result Summary	5
5. Test Set-up and operation mode	6
5.1 Principle of Configuration Selection	6
5.2 Test Operation Mode	6
5.3 Support Equipment Used	6
6. Test Results : Emission	7
6.1 Conducted Disturbance	7
6.2 Radiated Disturbance	18
Appendix 1	50
List of Test and Measurement Instruments	50
Appendix 2	52
Report Revision History	52

1. General Remarks

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

<http://www.digitalemcc.com>

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

2. Test Laboratory

Digital EMC Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	101842 678747 596748	Test Facility list & NSA Data
	Canada	IC	5740A-1 5740A-2	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, T-1442, G-338, G754	Test Facility list & NSA Data
Certification	Korea	KC	KR0034	Test Facility list & NSA Data
	Germany	TUV	CARAT 13 11 86721 001	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.	HSTND-3941-G (HP Model No.), LD4235 (LG Model No.)
EUT Type	LED Monitor
Serial No	KRG35 1007B
FCC ID	BEJHSTND-3941-G
Type of Sample Tested	Pre-Production
High Frequency	800 MHz
Rating	AC 100-240 V~ 50/60 Hz 1.3 A
Supplied Power for Test	AC 120 V, 60 Hz
Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do 451-713, REPUBLIC OF KOREA
Manufacturer	LG Electronics Inc. 222, LG-ro, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do 451-713, REPUBLIC OF KOREA

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 (YYYY-MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	2014-01-14	25	31
	2014-01-15	25	31
Radiated Disturbance	2014-01-15	18	32
	2014-01-15	19	32

4.3 Test result Summary

(1) Conducted Emission (DSUB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15025	L1	60.6	Quasi-Peak	66.0	5.4

(2) Radiated Emission (DISPLAY MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
374.947	H	41.1	Quasi-Peak	46.0	4.9

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

- DISPLAY, DSUB, HDMI, VOE MODE

: EUT displayed 'H' pattern on LCD display, 1920 x 1080 Resolution (Worst Case)

- USB MODE : EUT displayed pictures which is in USB.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
Workstation	Z400	2UA0330R2T	HP	POWER	1.8	Not use	Non-shield	Plastic	DOC
				DSUB	2.0	Not use	Shield	Plastic	
				HDMI	2.0	Not use	Shield	Plastic	
				Display	2.0	Not use	Shield	Plastic	
				LAN	2.0	Not use	Non-shield	Plastic	
				USB	1.8	Not use	Shield	Plastic	
				USB	1.8	Not use	Shield	Plastic	
				USB	1.8	Not use	Shield	Plastic	
KEYBOARD	KB-065	CN11163234	HP	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	MS111-L	N/A	DELL	USB	1.8	Not use	Shield	Plastic	DOC
PRINT	EPSON Aculaser M1200	LWTZ181070	EPSON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	Shield	Plastic	
HEADSET 1	COV909	N/A	COSY	AUDIO	2.0	Not use	Shield	Plastic	DOC
HEADSET 2	COV909	N/A	COSY	AUDIO	2.0	Not use	Shield	Plastic	DOC
USB Memory Stick	N/A	N/A	SANDISK	USB	-	Not use	Shield	Plastic	DOC
IR	N/A	N/A	N/A	IR	1.5	Not use	Shield	Plastic	DOC
Remote Controller	AKB72915277	628797-0010	N/A	-	-	-	-	-	-
LCD MONITOR	U2312HMT	CN-036N7K- 74445-199- 440L	DELL	POWER	1.8	Not use	Non-shield	Plastic	DOC
				DSUB	2.0	Not use	Shield	Plastic	
				Display	2.0	Not use	Shield	Plastic	

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

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

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

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

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies.				
Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

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

2. Correction Factor = Cable Loss + Insertion Loss of LISN

3. Margin = Limit - Emission level

Test Result

< DISPLAY MODE >



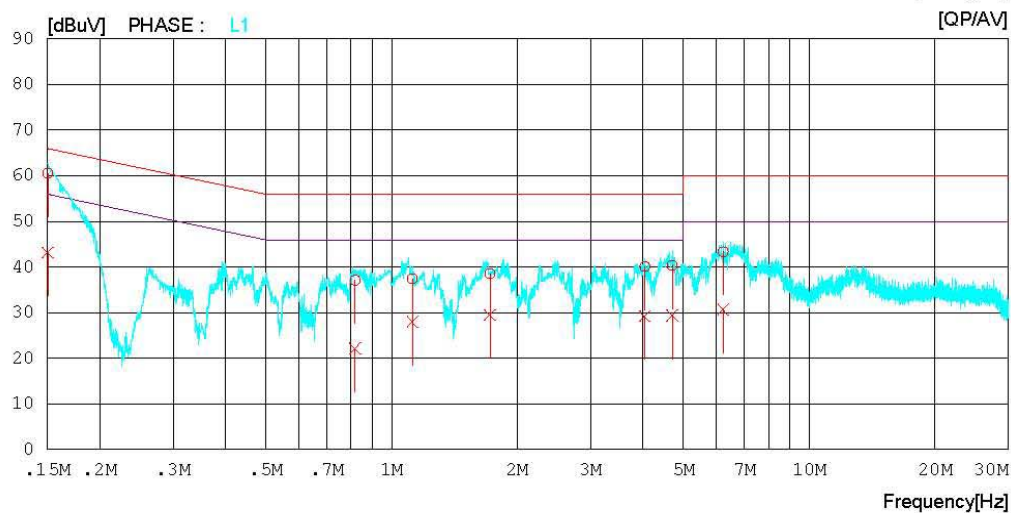
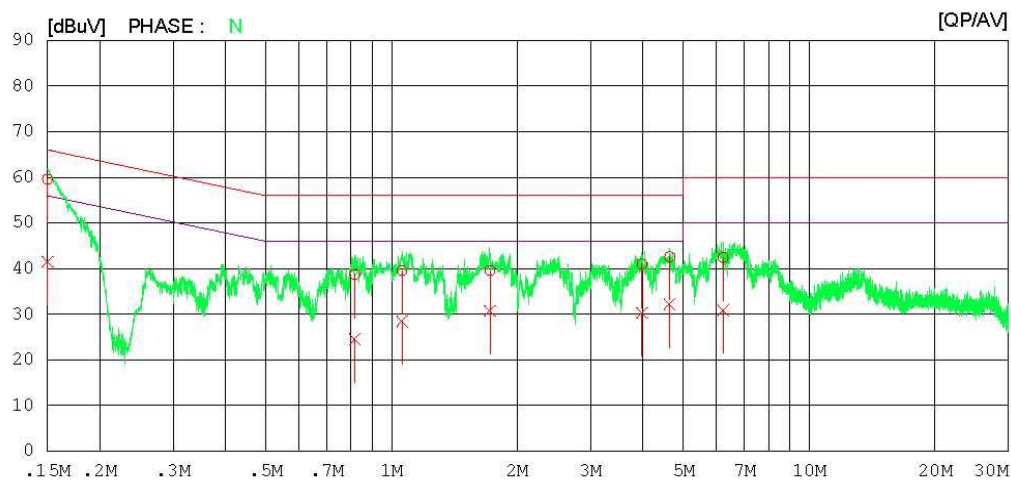
Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No.	: HSTND-3941-G, LD4235	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 25 °C 31 % R.H
Test Condition	: DISPLAY	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °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	0.15006	59.5	41.4	0.1	59.6	41.5	66.0	56.0	6.4	14.5	N
2	0.81748	38.5	24.3	0.2	38.7	24.5	56.0	46.0	17.3	21.5	N
3	1.06020	39.4	28.2	0.2	39.6	28.4	56.0	46.0	16.4	17.6	N
4	1.72000	39.2	30.4	0.3	39.5	30.7	56.0	46.0	16.5	15.3	N
5	3.97540	40.6	29.9	0.4	41.0	30.3	56.0	46.0	15.0	15.7	N
6	4.63700	42.1	31.7	0.5	42.6	32.2	56.0	46.0	13.4	13.8	N
7	6.22440	41.9	30.4	0.5	42.4	30.9	60.0	50.0	17.6	19.1	N
8	0.15025	60.4	43.1	0.1	60.5	43.2	66.0	56.0	5.5	12.8	L1
9	0.81846	36.9	22.0	0.2	37.1	22.2	56.0	46.0	18.9	23.8	L1
10	1.12220	37.3	27.8	0.2	37.5	28.0	56.0	46.0	18.5	18.0	L1
11	1.72120	38.3	29.2	0.3	38.6	29.5	56.0	46.0	17.4	16.5	L1
12	4.04020	39.7	28.8	0.4	40.1	29.2	56.0	46.0	15.9	16.8	L1
13	4.70060	39.9	28.9	0.5	40.4	29.4	56.0	46.0	15.6	16.6	L1
14	6.22440	42.8	30.2	0.5	43.3	30.7	60.0	50.0	16.7	19.3	L1

< DSUB MODE >



Results of Conducted Emission

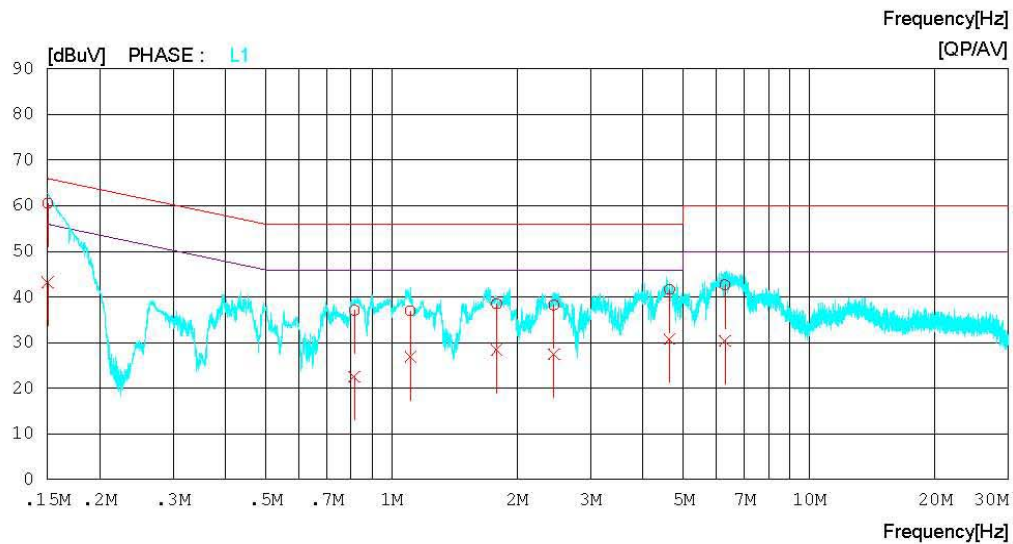
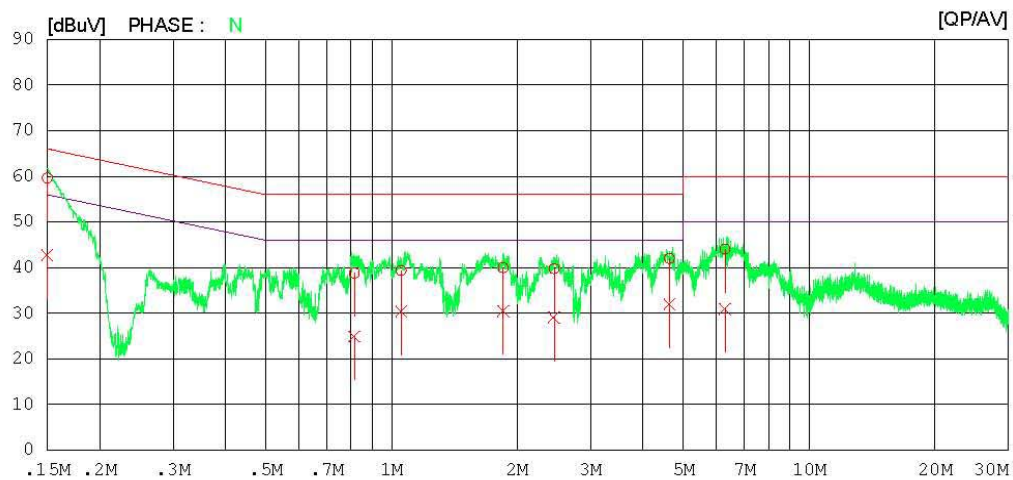
Digital EMC
Date : 2014-01-15

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-15

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °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	0.15000	59.6	42.6	0.1	59.7	42.7	66.0	56.0	6.3	13.3	N
2	0.81470	38.6	24.6	0.2	38.8	24.8	56.0	46.0	17.2	21.2	N
3	1.05500	39.2	30.2	0.2	39.4	30.4	56.0	46.0	16.6	15.6	N
4	1.85140	39.7	30.2	0.3	40.0	30.5	56.0	46.0	16.0	15.5	N
5	2.44920	39.4	28.7	0.3	39.7	29.0	56.0	46.0	16.3	17.0	N
6	4.63140	41.5	31.4	0.5	42.0	31.9	56.0	46.0	14.0	14.1	N
7	6.28720	43.6	30.4	0.5	44.1	30.9	60.0	50.0	15.9	19.1	N
8	0.15025	60.5	43.2	0.1	60.6	43.3	66.0	56.0	5.4	12.7	L1
9	0.81522	36.9	22.4	0.2	37.1	22.6	56.0	46.0	18.9	23.4	L1
10	1.10940	36.8	26.7	0.2	37.0	26.9	56.0	46.0	19.0	19.1	L1
11	1.78580	38.2	28.1	0.3	38.5	28.4	56.0	46.0	17.5	17.6	L1
12	2.44880	38.0	27.2	0.3	38.3	27.5	56.0	46.0	17.7	18.5	L1
13	4.63300	41.2	30.3	0.5	41.7	30.8	56.0	46.0	14.3	15.2	L1
14	6.28560	42.2	29.9	0.5	42.7	30.4	60.0	50.0	17.3	19.6	L1

< HDMI MODE >



Results of Conducted Emission

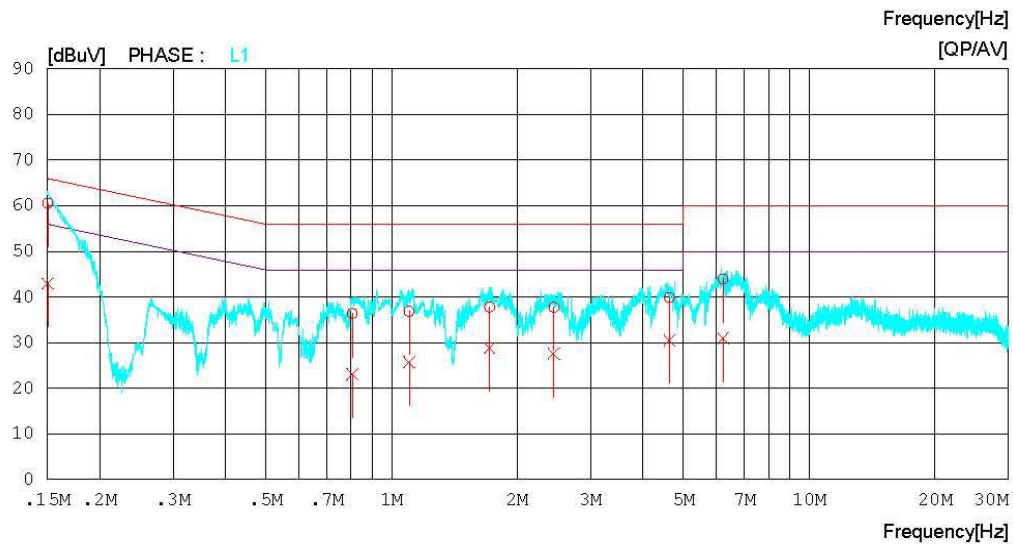
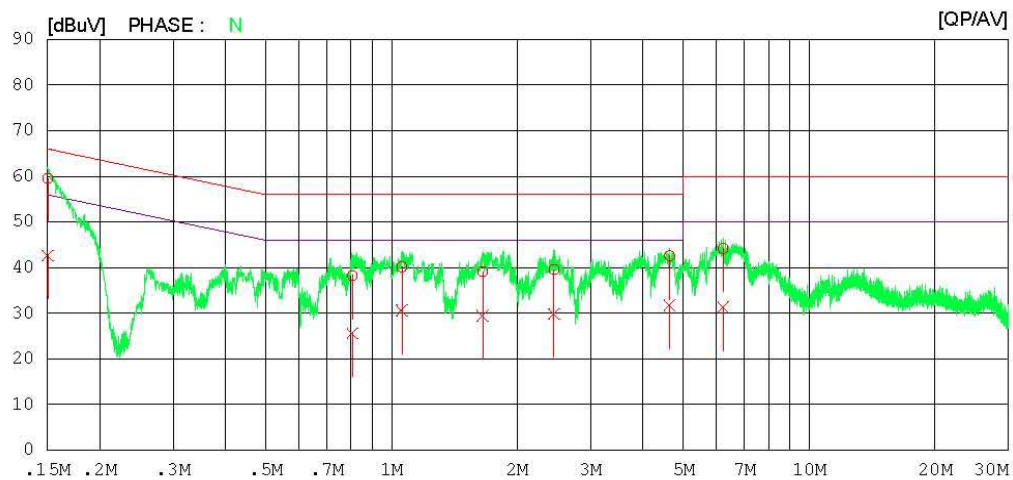
Digital EMC
Date : 2014-01-14

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °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	0.15043	59.4	42.5	0.1	59.5	42.6	66.0	56.0	6.5	13.4	N
2	0.80643	38.1	25.4	0.2	38.3	25.6	56.0	46.0	17.7	20.4	N
3	1.05860	39.9	30.4	0.2	40.1	30.6	56.0	46.0	15.9	15.4	N
4	1.65360	38.8	29.1	0.3	39.1	29.4	56.0	46.0	16.9	16.6	N
5	2.44800	39.3	29.5	0.3	39.6	29.8	56.0	46.0	16.4	16.2	N
6	4.63320	42.1	31.2	0.5	42.6	31.7	56.0	46.0	13.4	14.3	N
7	6.22100	43.6	30.8	0.5	44.1	31.3	60.0	50.0	15.9	18.7	N
8	0.15025	60.4	42.9	0.1	60.5	43.0	66.0	56.0	5.5	13.0	L1
9	0.80562	36.2	22.9	0.2	36.4	23.1	56.0	46.0	19.6	22.9	L1
10	1.10260	36.7	25.6	0.2	36.9	25.8	56.0	46.0	19.1	20.2	L1
11	1.71760	37.5	28.5	0.3	37.8	28.8	56.0	46.0	18.2	17.2	L1
12	2.44720	37.5	27.3	0.3	37.8	27.6	56.0	46.0	18.2	18.4	L1
13	4.63000	39.4	30.1	0.5	39.9	30.6	56.0	46.0	16.1	15.4	L1
14	6.22140	43.5	30.5	0.5	44.0	31.0	60.0	50.0	16.0	19.0	L1

< USB MODE >



Results of Conducted Emission

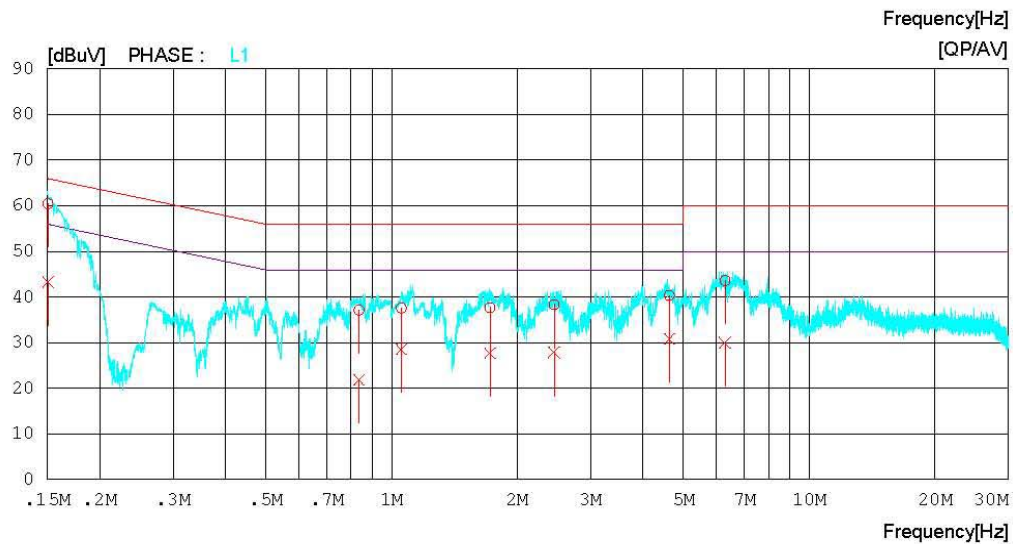
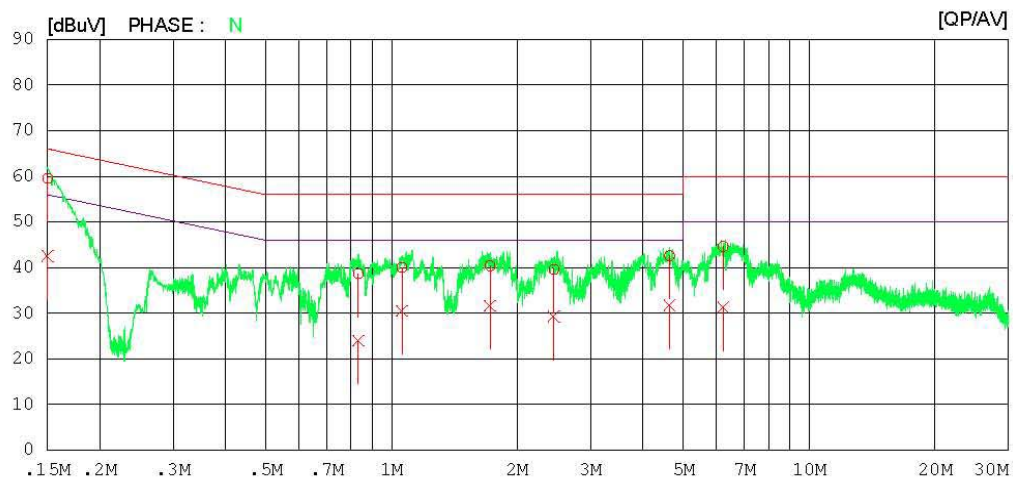
Digital EMC
Date : 2014-01-14

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °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	0.15018	59.5	42.4	0.1	59.6	42.5	66.0	56.0	6.4	13.5	N
2	0.83303	38.4	23.8	0.2	38.6	24.0	56.0	46.0	17.4	22.0	N
3	1.05840	39.8	30.4	0.2	40.0	30.6	56.0	46.0	16.0	15.4	N
4	1.72100	40.1	31.3	0.3	40.4	31.6	56.0	46.0	15.6	14.4	N
5	2.44880	39.3	29.0	0.3	39.6	29.3	56.0	46.0	16.4	16.7	N
6	4.63420	42.1	31.3	0.5	42.6	31.8	56.0	46.0	13.4	14.2	N
7	6.22400	44.1	30.7	0.5	44.6	31.2	60.0	50.0	15.4	18.8	N
8	0.15062	60.4	43.2	0.1	60.5	43.3	66.0	56.0	5.5	12.7	L1
9	0.83605	36.9	21.7	0.2	37.1	21.9	56.0	46.0	18.9	24.1	L1
10	1.05600	37.4	28.4	0.2	37.6	28.6	56.0	46.0	18.4	17.4	L1
11	1.72260	37.4	27.4	0.3	37.7	27.7	56.0	46.0	18.3	18.3	L1
12	2.44960	38.1	27.6	0.3	38.4	27.9	56.0	46.0	17.6	18.1	L1
13	4.63180	39.9	30.3	0.5	40.4	30.8	56.0	46.0	15.6	15.2	L1
14	6.28920	43.1	29.5	0.5	43.6	30.0	60.0	50.0	16.4	20.0	L1

< VOE MODE >



Results of Conducted Emission

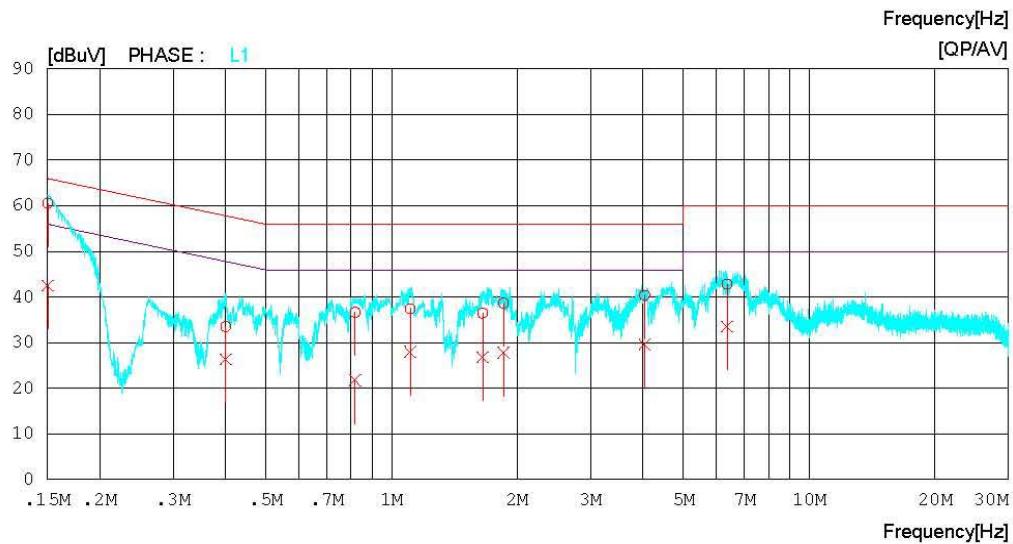
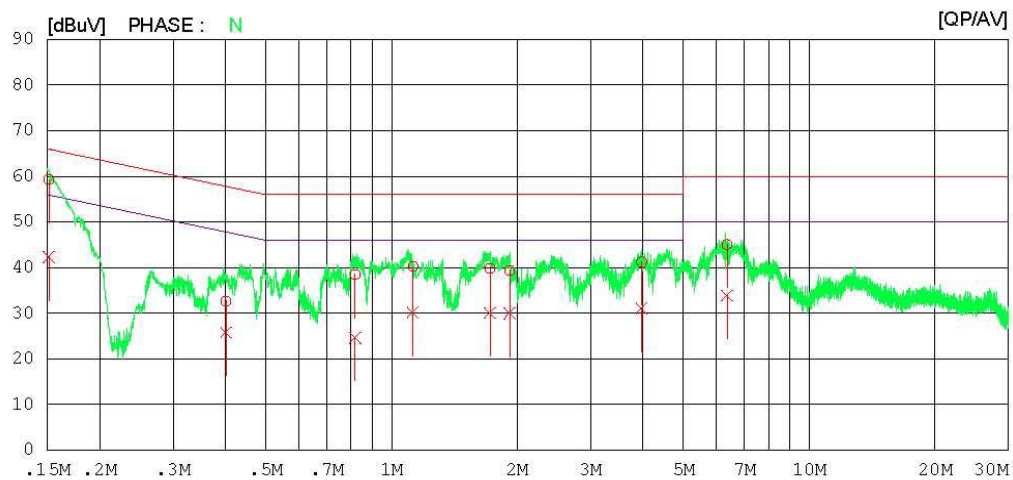
Digital EMC
Date : 2014-01-15

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-15

Model No. : HSTND-3941-G, LD4235
Type :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °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	0.15134	59.2	42.2	0.1	59.3	42.3	65.9	55.9	6.6	13.6	N
2	0.40158	32.5	25.7	0.1	32.6	25.8	57.8	47.8	25.2	22.0	N
3	0.81873	38.3	24.4	0.2	38.5	24.6	56.0	46.0	17.5	21.4	N
4	1.12540	40.0	30.0	0.2	40.2	30.2	56.0	46.0	15.8	15.8	N
5	1.72080	39.5	29.8	0.3	39.8	30.1	56.0	46.0	16.2	15.9	N
6	1.91840	39.1	29.7	0.3	39.4	30.0	56.0	46.0	16.6	16.0	N
7	3.97280	40.8	30.6	0.4	41.2	31.0	56.0	46.0	14.8	15.0	N
8	6.35660	44.6	33.3	0.5	45.1	33.8	60.0	50.0	14.9	16.2	N
9	0.15048	60.5	42.4	0.1	60.6	42.5	66.0	56.0	5.4	13.5	L1
10	0.40094	33.4	26.2	0.1	33.5	26.3	57.8	47.8	24.3	21.5	L1
11	0.81879	36.5	21.6	0.2	36.7	21.8	56.0	46.0	19.3	24.2	L1
12	1.10900	37.3	27.8	0.2	37.5	28.0	56.0	46.0	18.5	18.0	L1
13	1.65360	36.2	26.5	0.3	36.5	26.8	56.0	46.0	19.5	19.2	L1
14	1.85400	38.4	27.5	0.3	38.7	27.8	56.0	46.0	17.3	18.2	L1
15	4.03880	40.0	29.3	0.4	40.4	29.7	56.0	46.0	15.6	16.3	L1
16	6.35420	42.3	33.0	0.5	42.8	33.5	60.0	50.0	17.2	16.5	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

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

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

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

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

6.2.2 Limit for Radiated Disturbance

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

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

2. Correction Factor = Cable loss - Amp gain + Antenna Factor

3. Margin = Limit - Emission level

Test Result

< 30 MHz ~ 1 GHz _ DISPLAY MODE >

RADIATED EMISSION

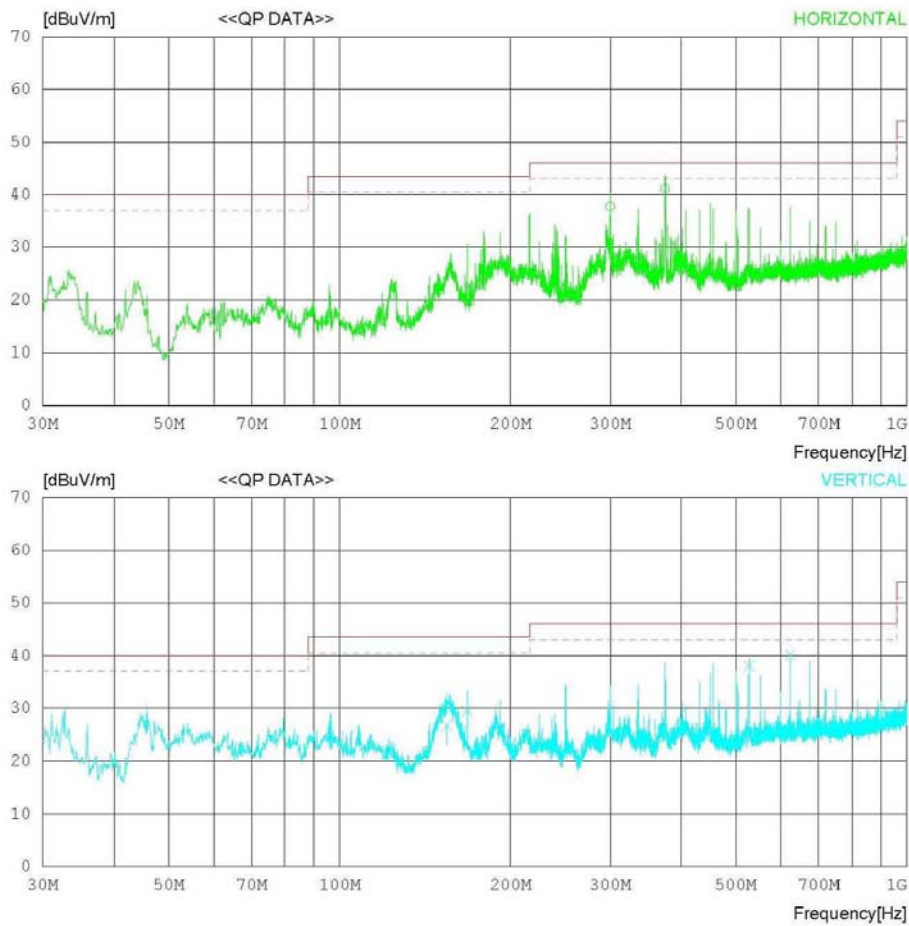
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19°C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 19 °C 32 % R.H
Test Condition	: DISPLAY	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	300.017	43.2	13.7	4.4	23.6	37.7	46.0	8.3	100	276
2	374.947	44.6	15.5	5.0	24.0	41.1	46.0	4.9	100	359
----- Vertical -----										
3	154.885	37.6	10.3	3.1	24.2	26.8	43.5	16.7	100	4
4	167.979	40.5	9.9	3.2	24.1	29.5	43.5	14.0	100	260
5	527.843	37.1	17.7	6.2	23.0	38.0	46.0	8.0	100	160
6	624.015	37.6	18.7	6.8	22.9	40.2	46.0	5.8	100	346

< (1 ~ 6) GHz_Peak _ DISPLAY MODE >

RADIATED EMISSION

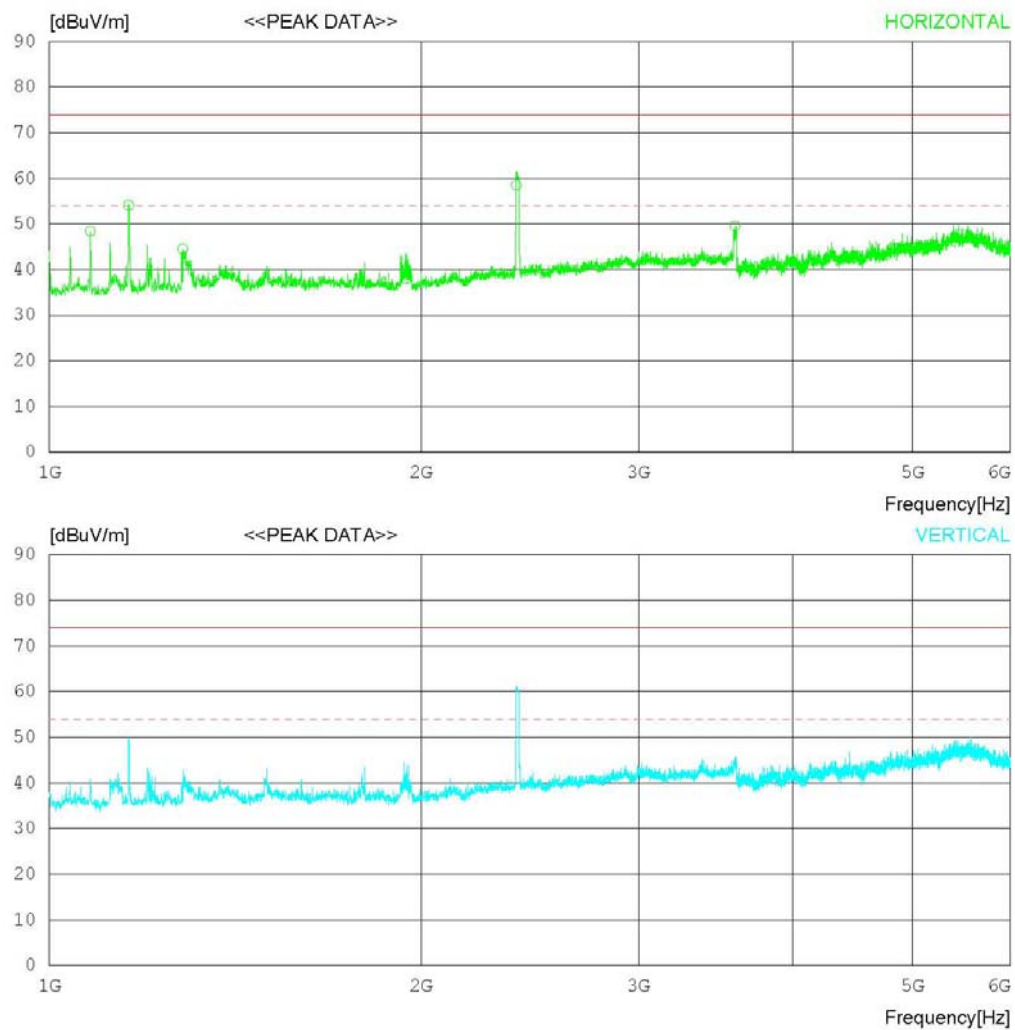
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % R.H
Test Condition	: DISPLAY	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	1079.375	61.9	24.0	3.5	41.0	48.4	74.0	25.6	100	145
2	1159.375	67.4	24.1	3.5	40.9	54.1	74.0	19.9	100	130
3	1282.500	56.9	24.3	3.8	40.5	44.5	74.0	29.5	100	202
4	1943.125	48.3	24.6	4.6	39.5	38.0	74.0	36	100	358
5	2388.750	68.9	26.8	3.6	40.8	58.5	74.0	15.5	100	222
6	3591.875	53.1	29.1	6.3	38.9	49.6	74.0	24.4	100	358

< (1 ~ 6) GHz_Average _ DISPLAY MODE >

RADIATED EMISSION

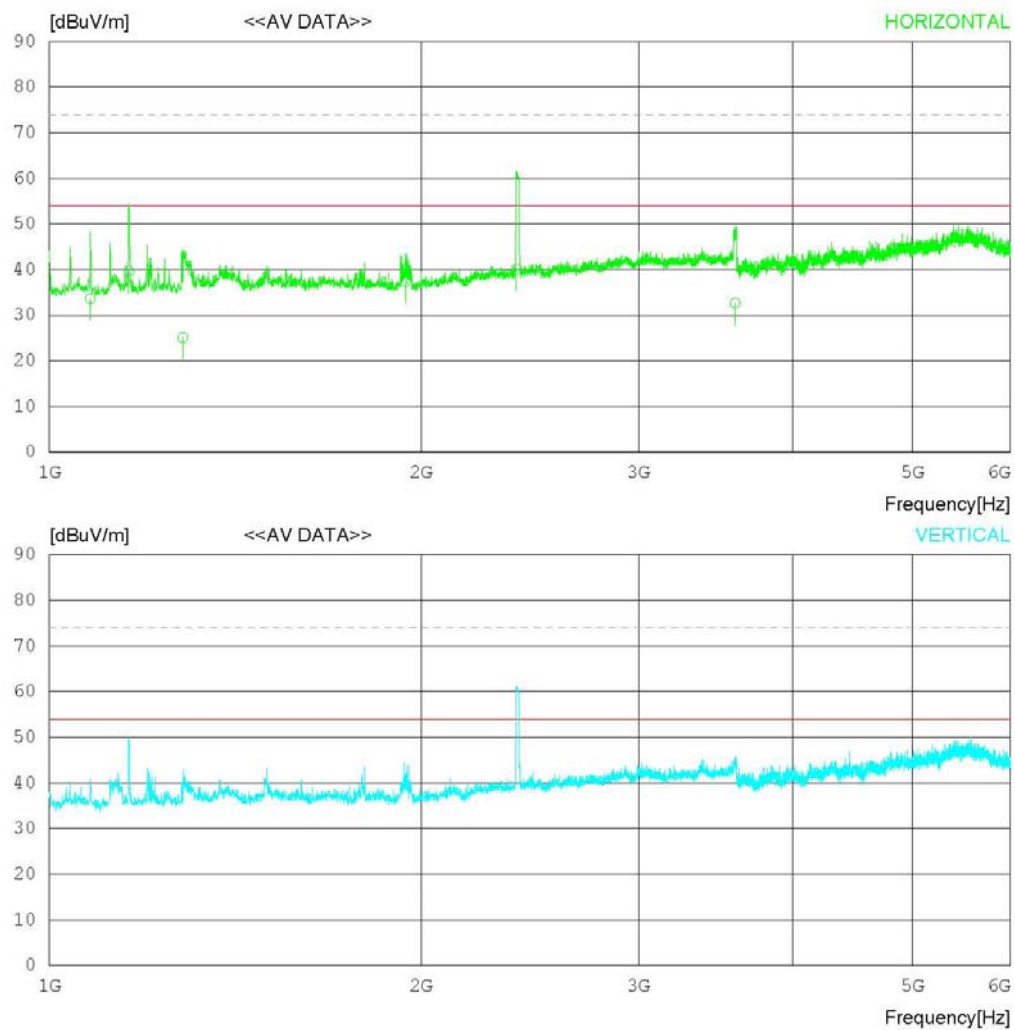
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % R.H
Test Condition	: DISPLAY	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	1079.375	47.2	24.0	3.5	41.0	33.7	54.0	20.3	100	145
2	1159.375	52.8	24.1	3.6	40.8	39.7	54.0	14.3	100	130
3	1282.500	37.5	24.3	3.8	40.5	25.1	54.0	28.9	100	202
4	1943.125	47.8	24.6	4.6	39.5	37.5	54.0	16.5	100	358
5	2388.750	47.5	26.8	5.1	39.3	40.1	54.0	13.9	100	222
6	3591.875	36.2	29.1	6.3	38.9	32.7	54.0	21.3	100	358

< 30 MHz ~ 1 GHz _ DSUB MODE >

RADIATED EMISSION

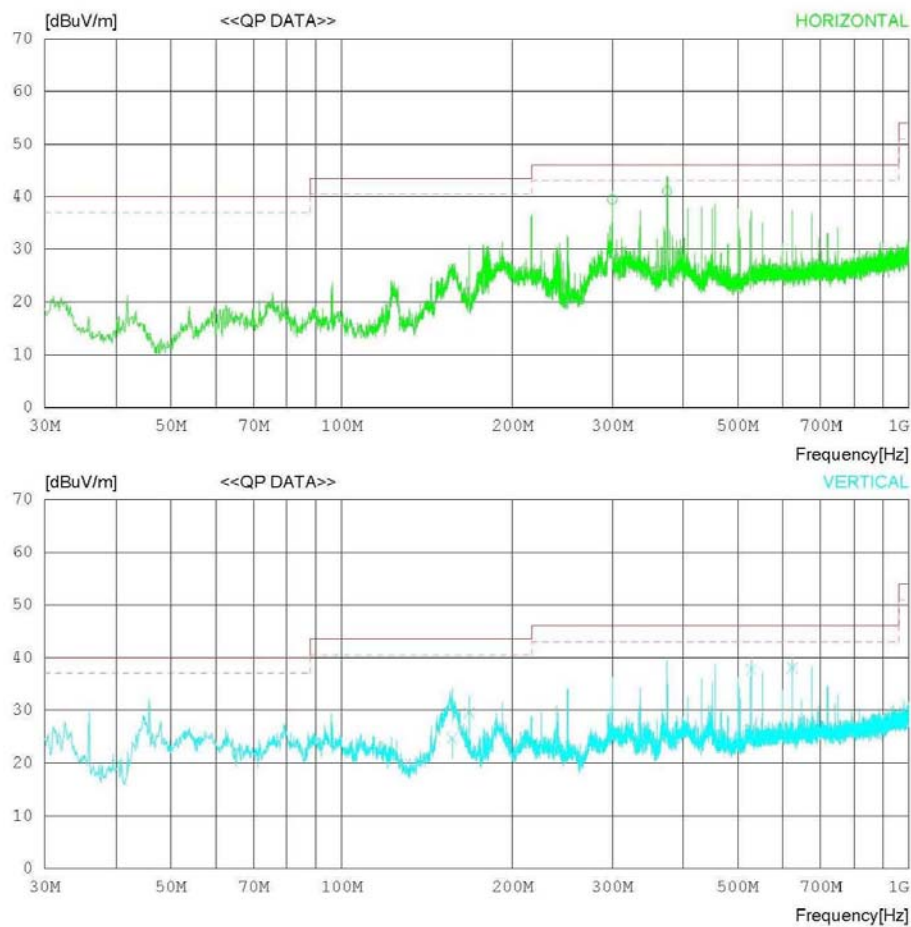
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 19 °C 32 % 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	300.017	44.9	13.7	4.4	23.6	39.4	46.0	6.6	100	273
2	374.947	44.1	15.5	5.0	23.6	41.0	46.0	5.0	100	343
----- Vertical -----										
3	156.825	35.7	10.2	3.1	24.2	24.8	43.5	18.7	100	355
4	167.979	40.6	9.9	3.2	24.1	29.6	43.5	13.9	100	0
5	527.964	36.8	17.7	6.2	23.0	37.7	46.0	8.3	100	0
6	624.015	35.4	18.7	6.8	22.9	38.0	46.0	8.0	100	350

< (1 ~ 6) GHz_Peak _ DSUB MODE >

RADIATED EMISSION

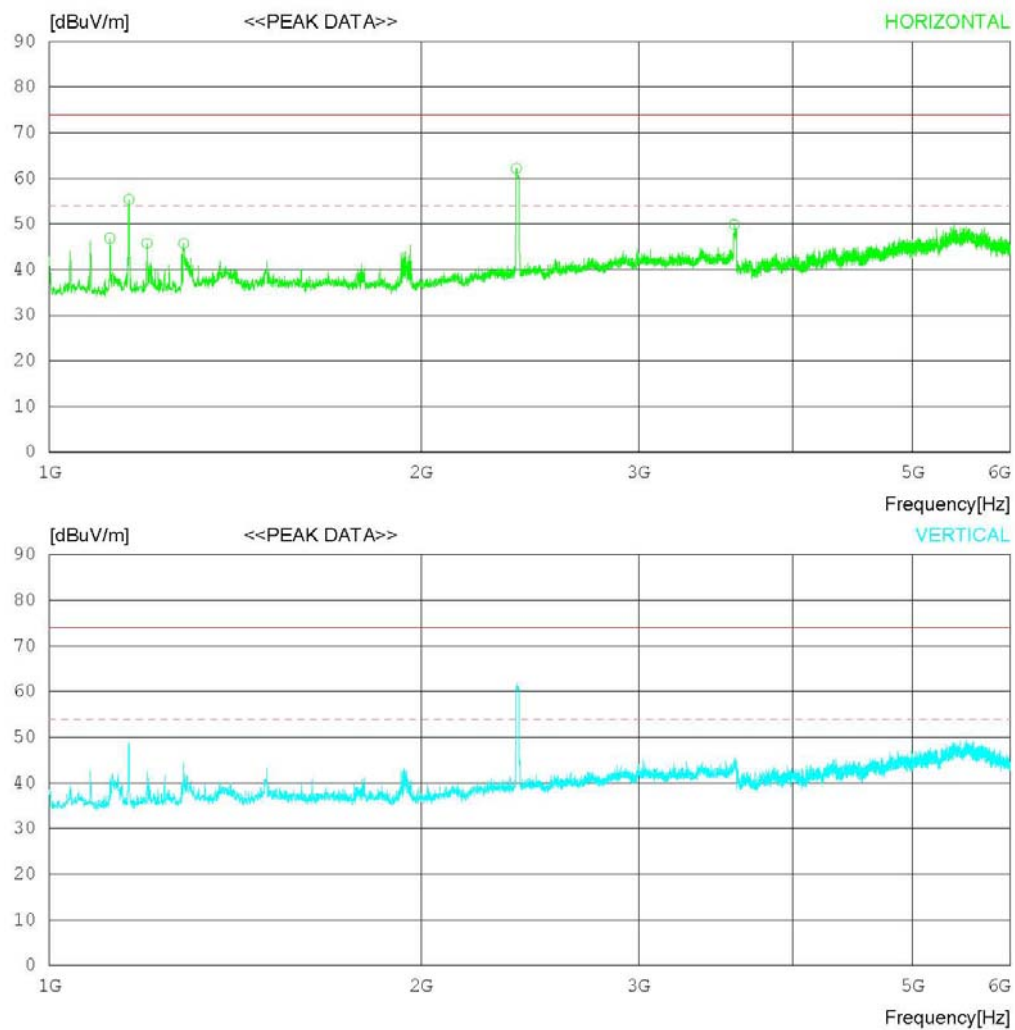
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % 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	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	1119.375	60.2	24.1	3.5	40.9	46.9	74.0	27.1	100	358
2	1160.000	68.5	24.1	3.6	40.8	55.4	74.0	18.6	100	129
3	1199.375	58.7	24.2	3.6	40.7	45.8	74.0	28.2	100	119
4	1285.000	58.1	24.3	3.8	40.5	45.7	74.0	28.3	100	194
5	2388.750	69.6	26.8	5.1	39.3	62.2	74.0	11.8	100	223
6	3585.625	53.4	29.1	6.3	38.9	49.9	74.0	24.1	100	358

< (1 ~ 6) GHz_Average _ DSUB MODE >

RADIATED EMISSION

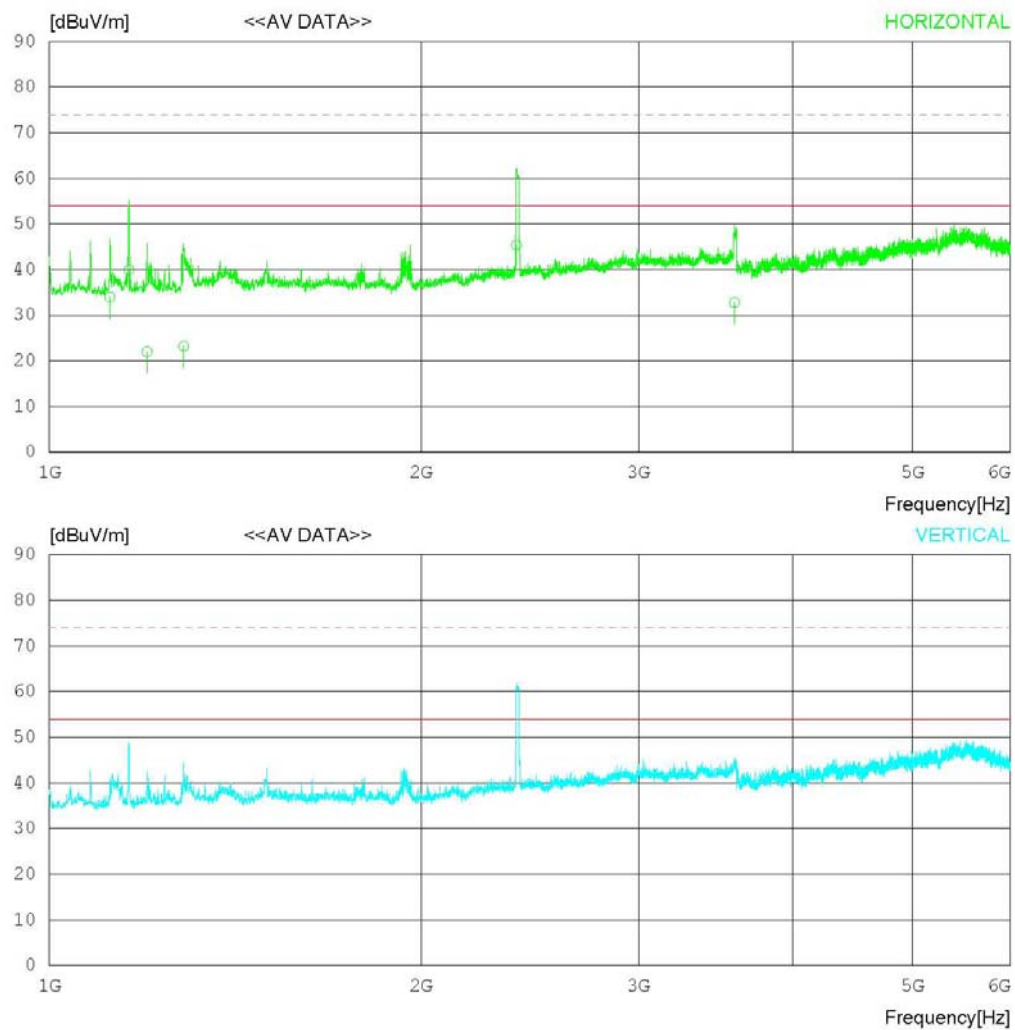
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % 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	1119.375	47.3	24.1	3.5	40.9	34.0	54.0	20.0	100	358
2	1160.000	53.0	24.1	3.6	40.8	39.9	54.0	14.1	100	129
3	1199.375	34.9	24.2	3.6	40.7	22.0	54.0	32.0	100	119
4	1285.000	35.6	24.3	3.8	40.5	23.2	54.0	30.8	100	194
5	2388.750	52.8	26.8	5.1	39.3	45.4	54.0	8.6	100	223
6	3585.625	36.3	29.1	6.3	38.9	32.8	54.0	21.2	100	358

< 30 MHz ~ 1 GHz _ HDMI MODE >

RADIATED EMISSION

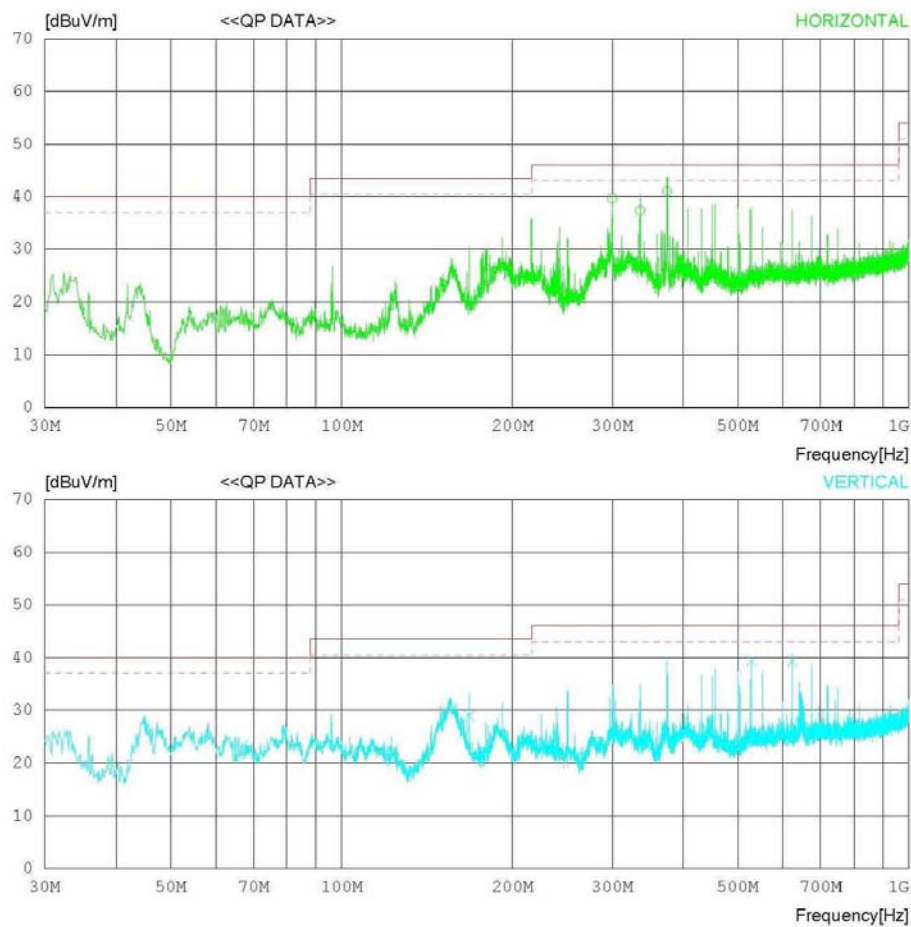
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 19 °C 32 % 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	300.017	45.2	13.7	4.4	23.6	39.7	46.0	6.3	100	358
2	336.027	41.6	14.6	4.7	23.6	37.3	46.0	8.7	100	190
3	374.947	44.1	15.5	5.0	23.6	41.0	46.0	5.0	100	356
----- Vertical -----										
4	167.979	40.0	9.9	3.2	24.1	29.0	43.5	14.5	100	229
5	527.964	38.4	17.7	6.2	23.0	39.3	46.0	6.7	100	159
6	624.015	36.7	18.7	6.8	22.9	39.3	46.0	6.7	100	354

< (1 ~ 6) GHz_Peak _ HDMI MODE >

RADIATED EMISSION

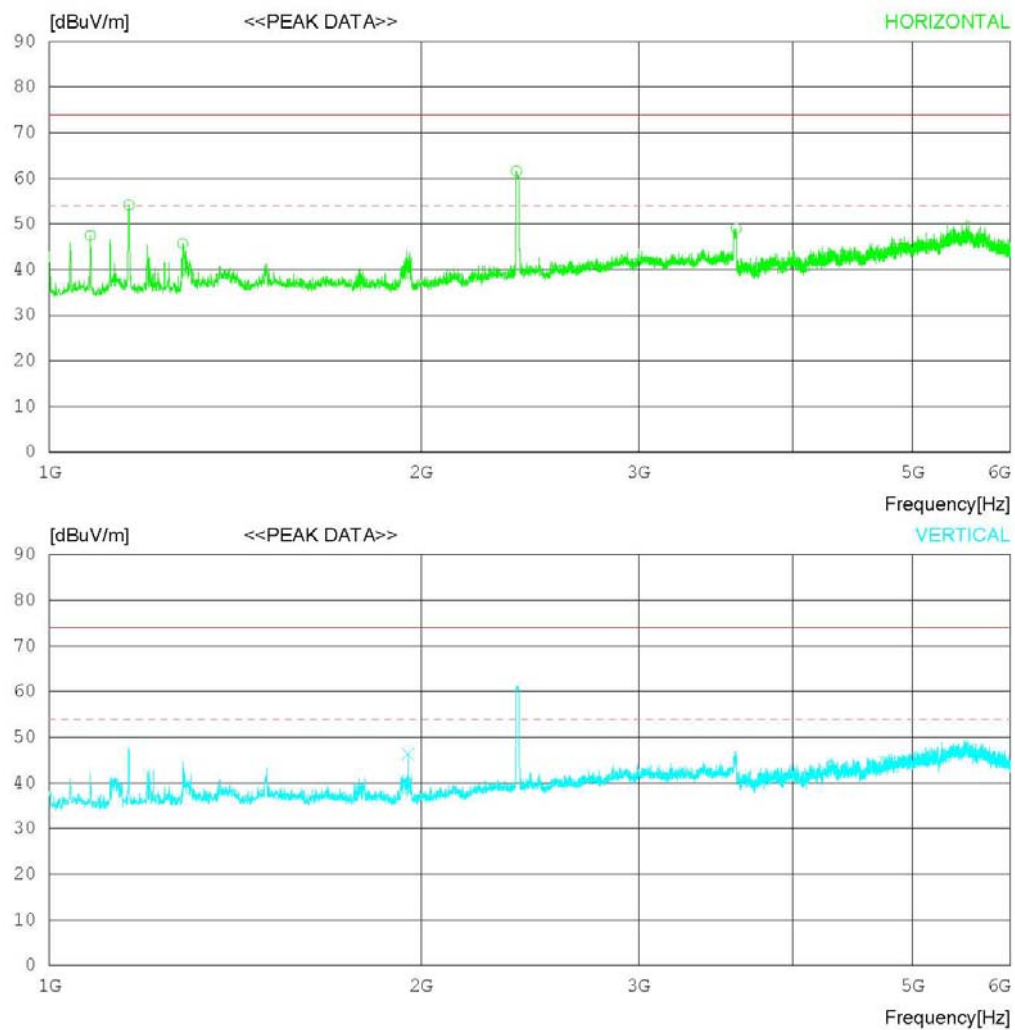
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % 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	1079.375	61.0	24.0	3.5	41.0	47.5	74.0	26.5	100	129
2	1160.000	67.3	24.1	3.6	40.8	54.2	74.0	19.8	100	129
3	1282.500	58.1	24.3	3.8	40.5	45.7	74.0	28.3	100	187
4	2388.750	69.0	26.8	5.1	39.3	61.6	74.0	12.4	100	220
5	3598.750	52.5	29.1	6.3	38.9	49.0	74.0	25	100	1
----- Vertical -----										
6	1951.250	56.5	24.6	4.7	39.5	46.3	74.0	27.7	100	4

< (1 ~ 6) GHz_Average _ HDMI MODE >

RADIATED EMISSION

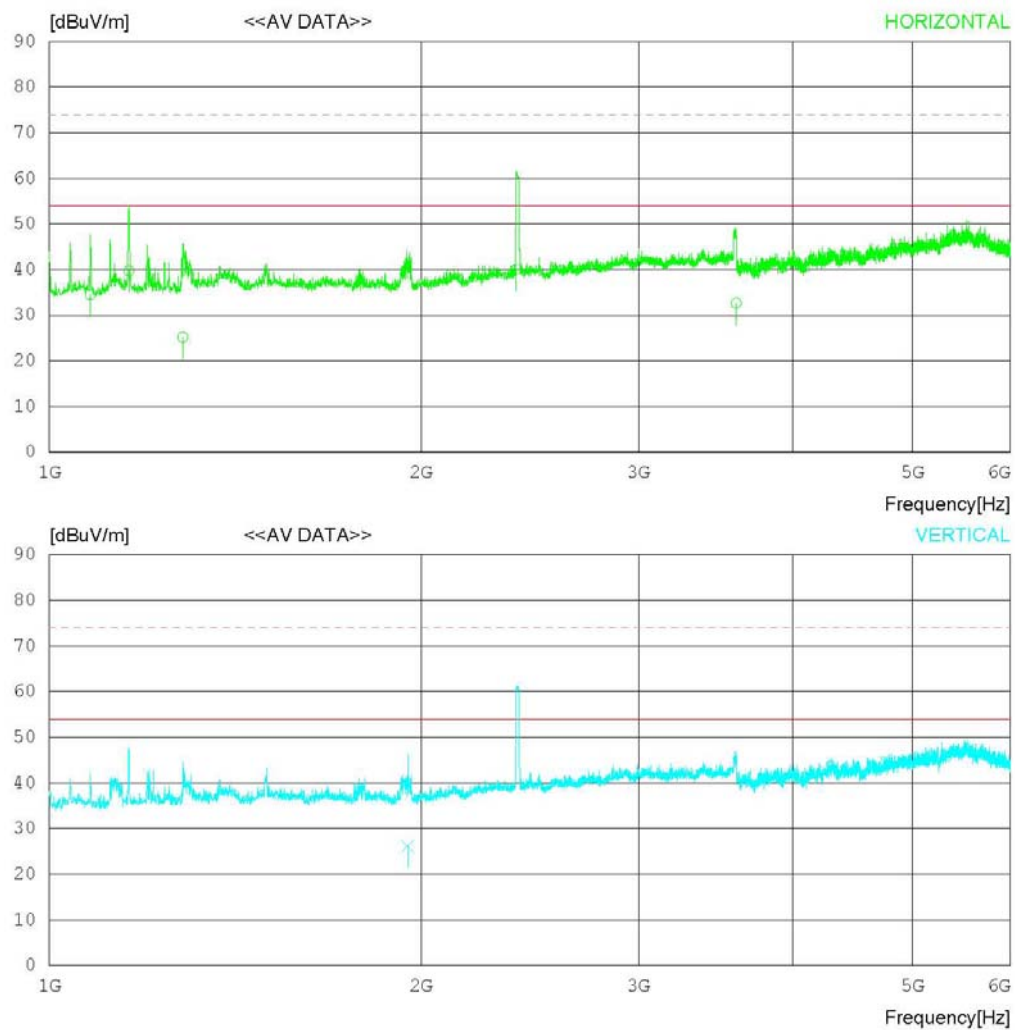
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % 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	1079.375	48.0	24.0	3.5	41.0	34.5	54.0	19.5	100	129
2	1160.000	52.9	24.1	3.6	40.8	39.8	54.0	14.2	100	129
3	1282.500	37.6	24.3	3.8	40.5	25.2	54.0	28.8	100	187
4	2388.750	47.5	26.8	5.1	39.3	40.1	54.0	13.9	100	220
5	3598.750	36.2	29.1	6.3	38.9	32.7	54.0	21.3	100	1
----- Vertical -----										
6	1951.250	36.3	24.6	4.7	39.5	26.1	54.0	27.9	100	4

< 30 MHz ~ 1 GHz _ USB MODE >

RADIATED EMISSION

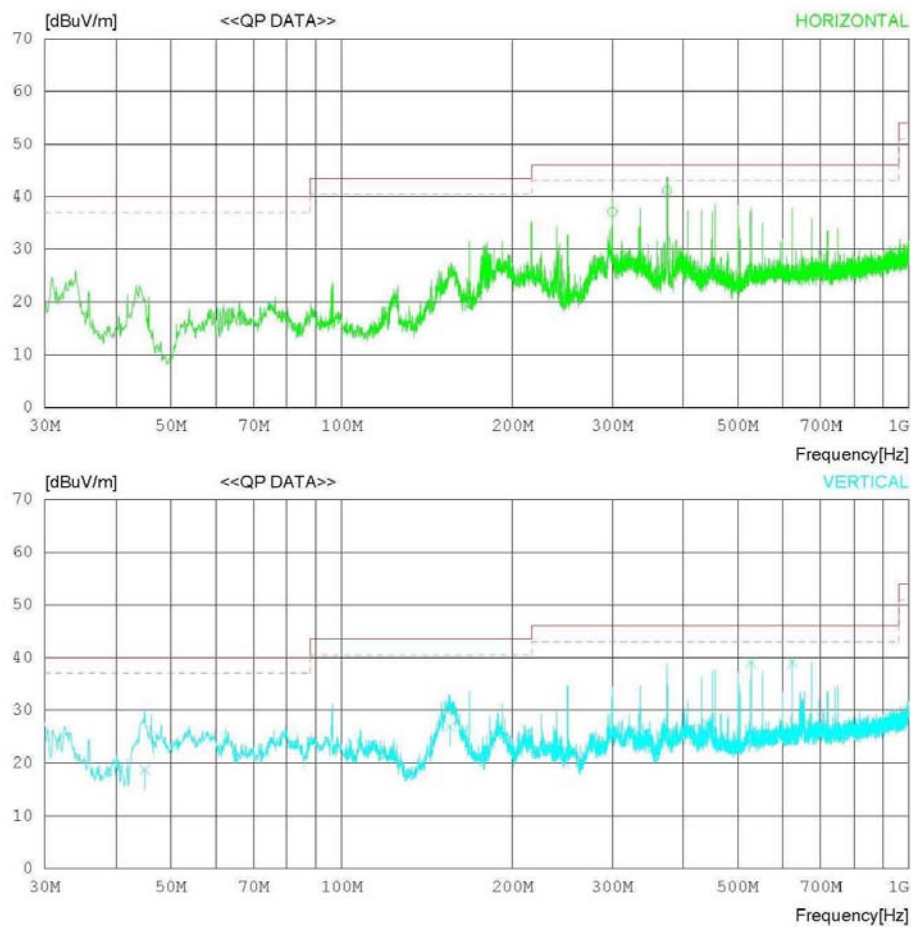
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 19 °C 32 % 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	300.017	42.6	13.7	4.4	23.6	37.1	46.0	8.9	100	359
2	374.947	44.2	15.5	5.0	23.6	41.1	46.0	4.9	100	359
----- Vertical -----										
3	44.914	27.2	13.9	2.1	24.3	18.9	40.0	21.1	100	1
4	155.491	37.8	10.3	3.1	24.2	27.0	43.5	16.5	100	1
5	527.964	38.2	17.7	6.2	23.0	39.1	46.0	6.9	100	1
6	624.015	36.4	18.7	6.8	22.9	39.0	46.0	7.0	100	1

< (1 ~ 6) GHz_Peak _ USB MODE >

RADIATED EMISSION

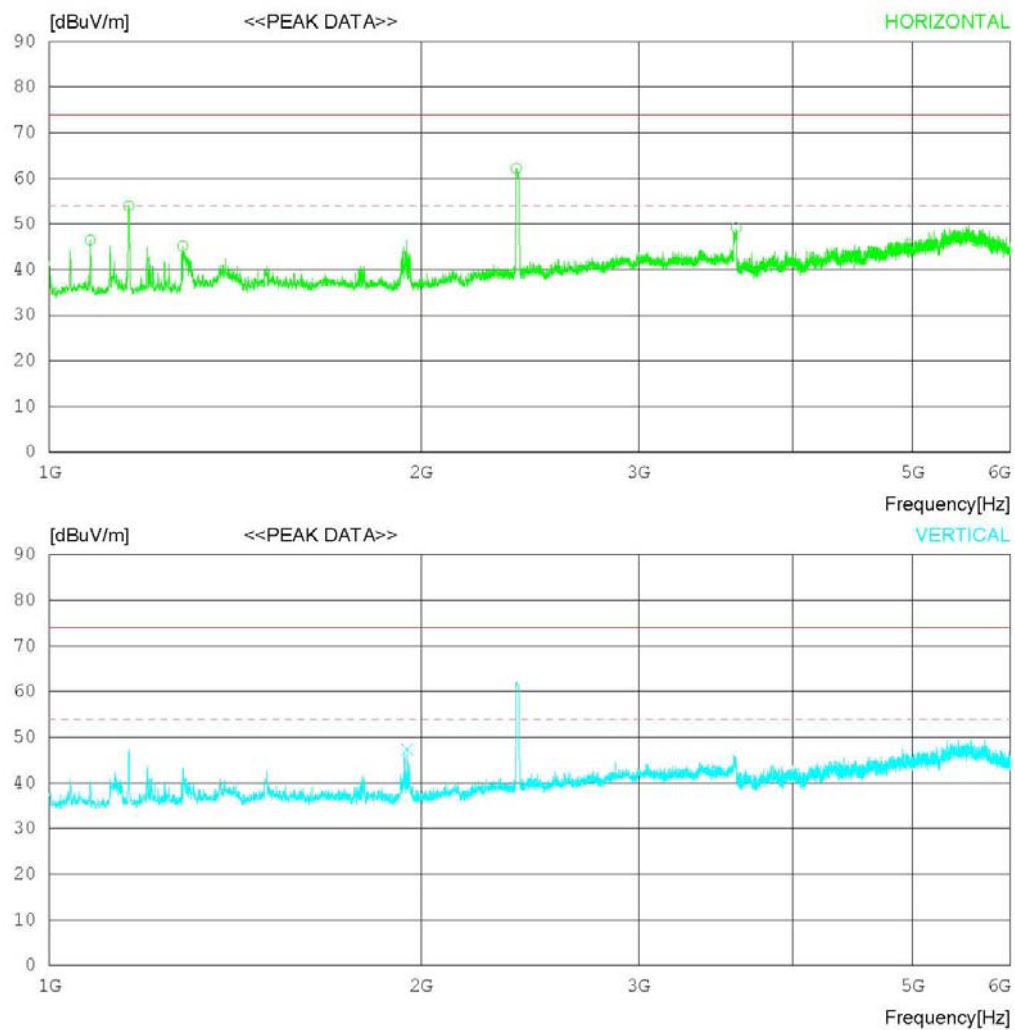
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % 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	1079.375	60.0	24.0	3.5	41.0	46.5	74.0	27.5	100	359
2	1159.375	67.1	24.1	3.6	40.8	54.0	74.0	20	100	230
3	1282.500	57.6	24.3	3.8	40.5	45.2	74.0	28.8	100	359
4	2388.750	69.6	26.8	5.1	39.3	62.2	74.0	11.8	100	220
5	3598.125	52.6	29.1	6.3	38.9	49.1	74.0	24.9	100	134
----- Vertical -----										
6	1948.750	57.5	24.6	4.7	39.5	47.3	74.0	26.7	100	0

< (1 ~ 6) GHz_Average _ USB MODE >

RADIATED EMISSION

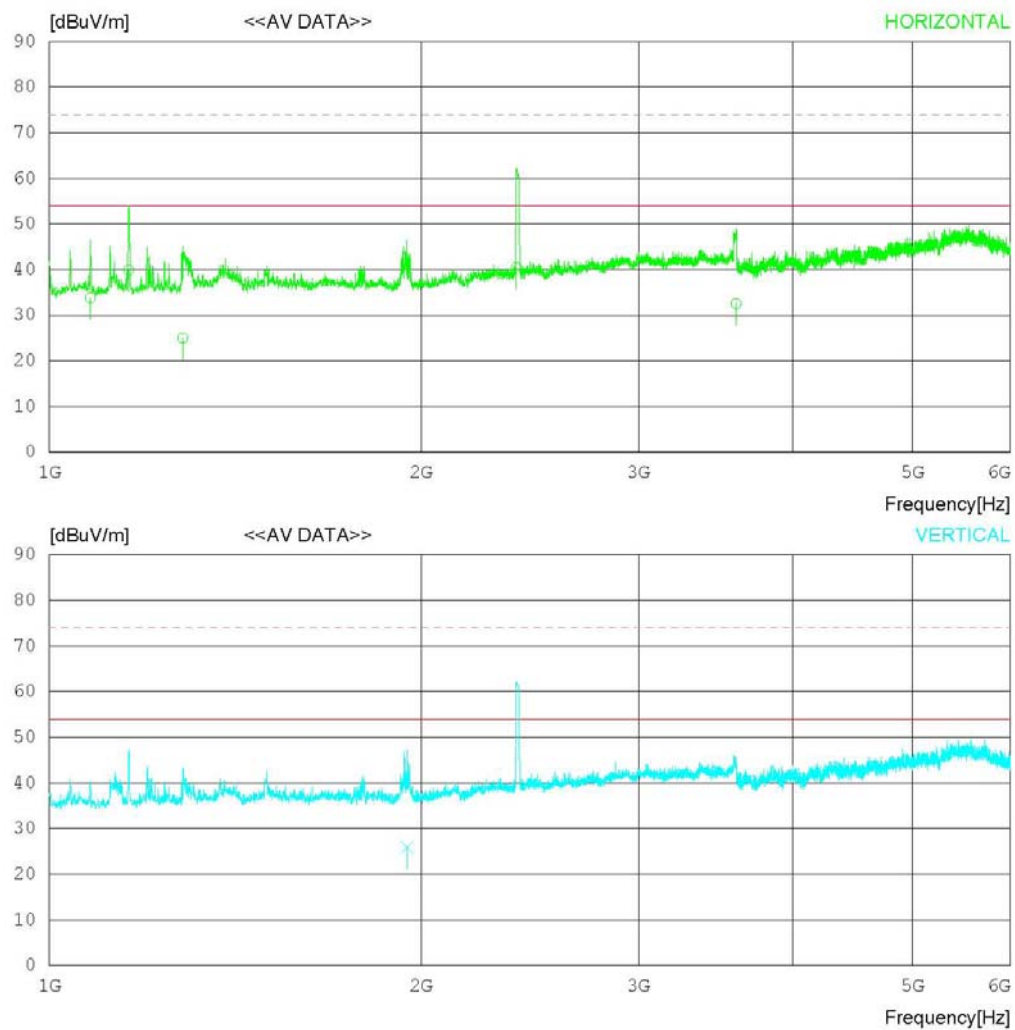
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % 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	1079.375	47.3	24.0	3.5	41.0	33.8	54.0	20.2	100	359
2	1159.375	53.0	24.1	3.6	40.8	39.9	54.0	14.1	100	230
3	1282.500	37.4	24.3	3.8	40.5	25.0	54.0	29.0	100	359
4	2388.750	47.9	26.8	5.1	39.3	40.5	54.0	13.5	100	220
5	3598.125	36.1	29.1	6.3	38.9	32.6	54.0	21.4	100	134
----- Vertical -----										
6	1948.750	36.1	24.6	4.7	39.5	25.9	54.0	28.1	100	0

< 30 MHz ~ 1 GHz _ VOE MODE >

RADIATED EMISSION

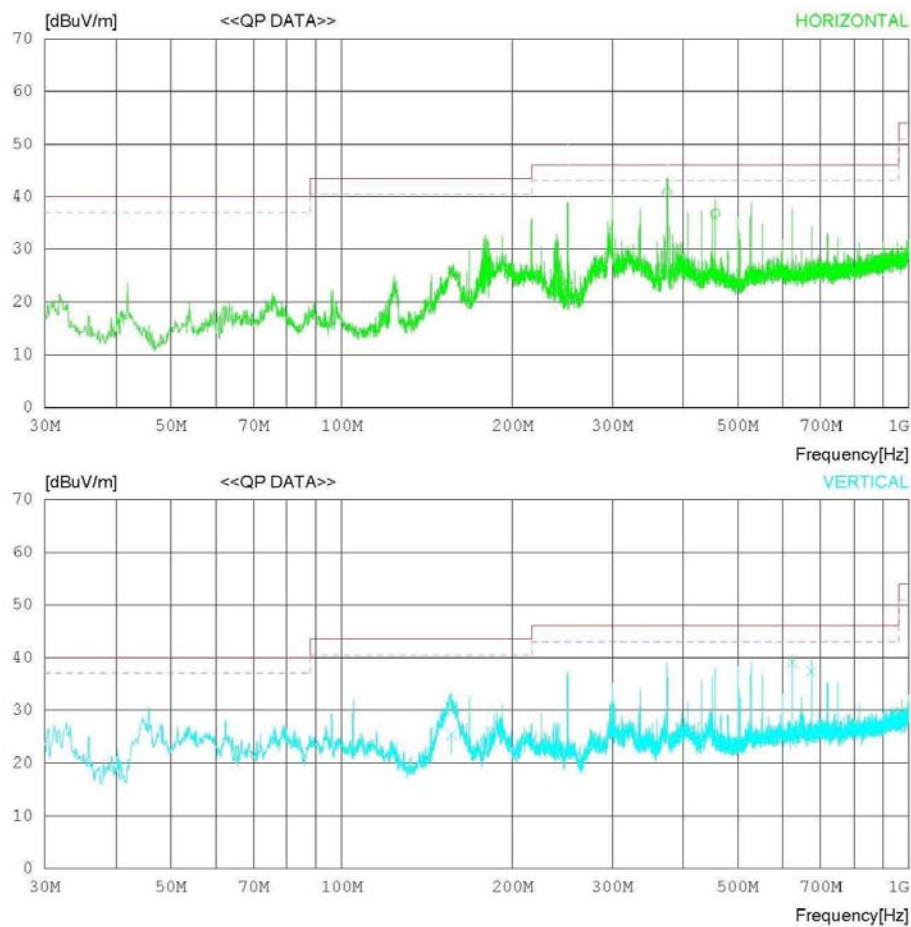
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 19 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 19 °C 32 % R.H
Test Condition	: VOE	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	250.063	30.2	12.7	3.9	23.8	23.0	46.0	23.0	100	358
2	374.826	43.8	15.5	5.0	23.6	40.7	46.0	5.3	100	358
3	455.818	37.6	16.8	5.6	23.2	36.8	46.0	9.2	100	358
----- Vertical -----										
4	156.582	36.4	10.2	3.1	24.2	25.5	43.5	18.0	100	322
5	624.015	36.5	18.7	6.8	22.9	39.1	46.0	6.9	100	1
6	675.073	34.5	18.6	7.2	22.9	37.4	46.0	8.6	100	213

< (1 ~ 6) GHz_Peak _ VOE MODE >

RADIATED EMISSION

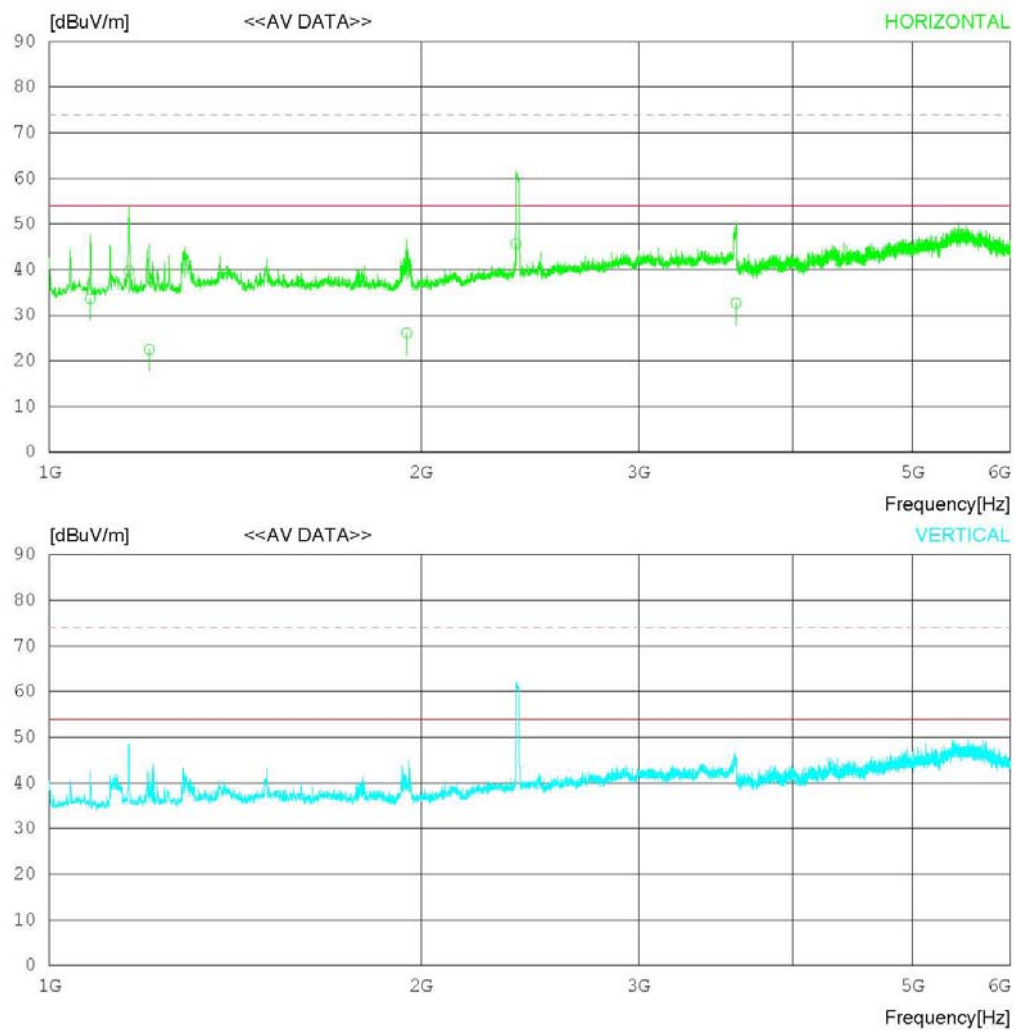
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % R.H
Test Condition	: VOE	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	1080.000	47.1	24.0	3.5	41.0	33.6	54.0	20.4	100	359
2	1160.000	52.8	24.1	3.6	40.8	39.7	54.0	14.3	100	359
3	1205.000	35.4	24.2	3.6	40.7	22.5	54.0	31.5	100	359
4	1947.500	36.3	24.6	4.7	39.5	26.1	54.0	27.9	100	232
5	2387.500	53.1	26.8	5.1	39.3	45.7	54.0	8.3	100	222
6	3596.875	36.2	29.1	6.3	38.9	32.7	54.0	21.3	100	136

< (1 ~ 6) GHz_Average _ VOE MODE >

RADIATED EMISSION

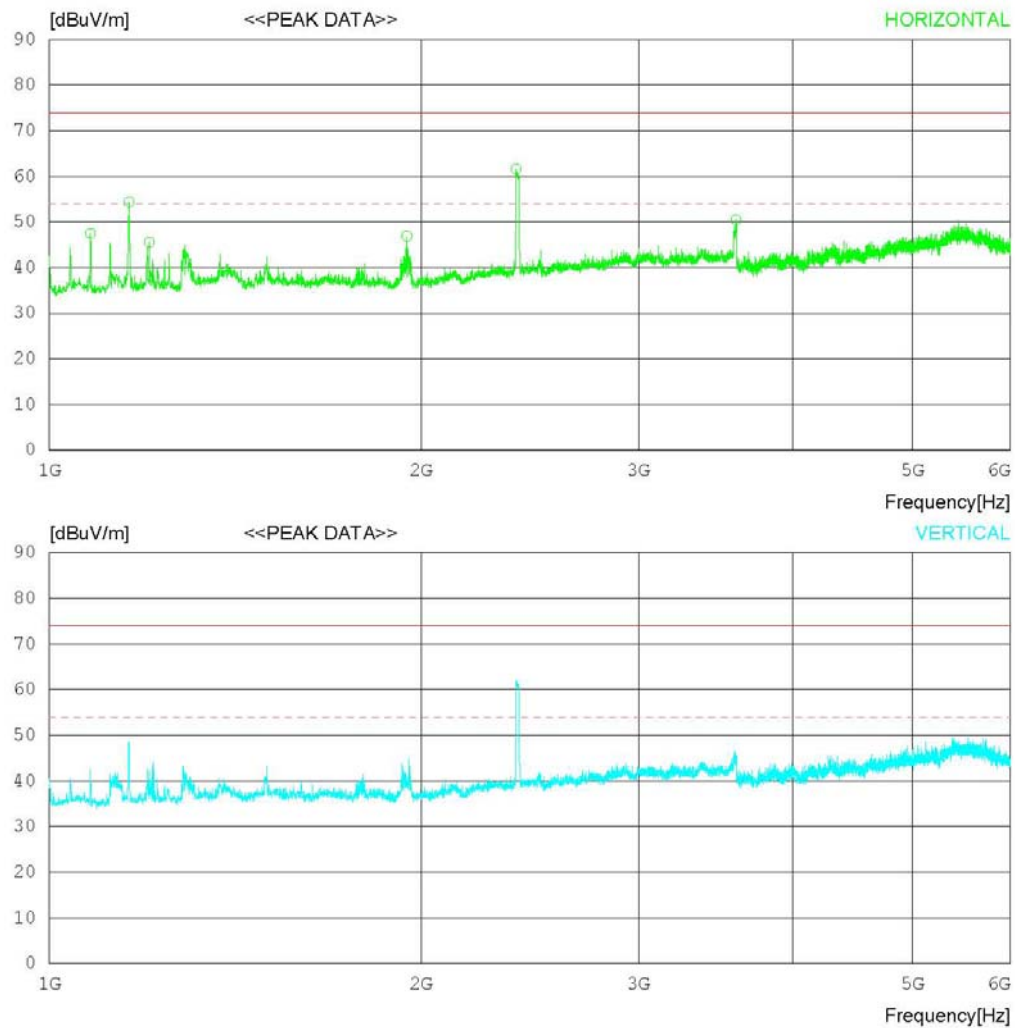
Date : 2014-01-15

Model Name : HSTND-3941-G, LD4235
Model No. :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 32 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3941-G, LD4235	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 32 % R.H
Test Condition	: VOE	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	1080.000	61.0	24.0	3.5	41.0	47.5	74.0	26.5	100	359
2	1160.000	67.5	24.1	3.6	40.8	54.4	74.0	19.6	100	359
3	1205.000	58.5	24.2	3.6	40.7	45.6	74.0	28.4	100	359
4	1947.500	57.1	24.6	4.7	39.5	46.9	74.0	27.1	100	232
5	2387.500	69.0	26.8	5.1	39.3	61.6	74.0	12.4	100	222
6	3596.875	54.0	29.1	6.3	38.9	50.5	74.0	23.5	100	136

Appendix 1

List of Test and Measurement Instruments

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐ SPECTRUM ANALYZER	8591E	H/P	3649A05889	2013.02.28	2014.02.28
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2013.06.28	2014.06.28
☐ LISN	KNW-407	KYORITSU	8-317-8	2014.01.07	2015.01.07
☐ LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2013.06.27	2014.06.27
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2014.01.08	2015.01.08
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2013.09.12	2014.09.12
☒ LISN	LISN1600	TTI	197204	2013.06.28	2014.06.28
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2014.01.08	2015.01.08

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2014.01.08	2015.01.08
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.03.22	2014.03.22
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒ AMPLIFIER	8447E	H/P	2945A02865	2014.01.08	2015.01.08
☒ AMPLIFIER	8447B	AGILENT	3008A01590	2013.02.27	2014.02.27
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2013.06.27	2014.06.27
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2013.06.28	2014.06.28
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	0411	2012.03.12	2014.03.12

Appendix 2

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	N/A	N/A