

EMC TEST REPORT

Test item : LCD TV Monitor
Model No. : 42CS570-UD
Order No. : 1112-01813
Date of receipt : 2011-12-22
Test duration : 2011-12-26 ~ 2011-12-29
Use of report : FCC CoC Marking
Date of Issue : 2012-01-03

Applicant : LG Electronics Inc.
9-1, 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 : (18 ~ 19) °C,
Humidity : (31 ~ 33) % 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:

Reviewed by:


Assistant Manager
D.H.EUN
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.digitalemcc.com>

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

2. Test Laboratory

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

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	101842 678747	Test Facility list & NSA Data
	Canada	IC	5740A-1 5740A-2	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385 T-1442, G-338	Test Facility list & NSA Data
Certification	Korea	KC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK1028C	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.	42CS570-UD
EUT Type	LCD TV Monitor
Serial No	NONE
FCC ID	BEJ42CS570UD
Type of Sample Tested	Pre-Production
High Frequency	667 Mhz
Rating	AC100-240 V~, 50/60 Hz, 2.0 A
Supplied Power for Test	AC120V, 60Hz
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)
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1360x768	47.712	60.015
1280x1024	63.981	60.02
1920x1080	67.5	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	12-26	19	33	-
Radiated Disturbance	12-28	18	32	
	12-29	19	31	

4.3 Test result Summary

(1) Conducted Emission(USB MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.76925	N	52.2	Quasi-Peak	56.0	3.8

(2) Radiated Emission(HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
641.500	H	41.6	Quasi-Peak	46.0	4.4

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

- DSUB MODE – Resolution : 1920 x 1080 Resolution (Worst Case)
- 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)	shield		
PC	VOSTRO430	9K77SBX	DELL	POWER	1.8	Non-shield	Plastic	DOC
				HDMI	1.8	Shield		
				DSUB	1.8	Shield		
				USB	1.8	Non-shield		
				PS/2	1.6	Non-shield		
				PS/2	1.8	Non-shield		
				STEREO	1.6	Non-shield		
KEYBOARD	SKG-210P	TAKSC12255P	MONITOEREY INTERNATIONAL CORP	PS/2	1.6	Non-shield	Plastic	DOC
MOUSE	SML-510PB	TAKS903519Z	MONITOEREY INTERNATIONAL CORP	PS/2	1.8	Non-shield	Plastic	DOC
PRINTER	SRP-770	SRP77008060035	BICSOLON	POWER	1.8	Non-shield	Plastic	DOC
				USB	1.8			
USB MEMORY	POP-S2	N/A	MEMORIVE	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

< DSUB MODE >



Results of Conducted Emission

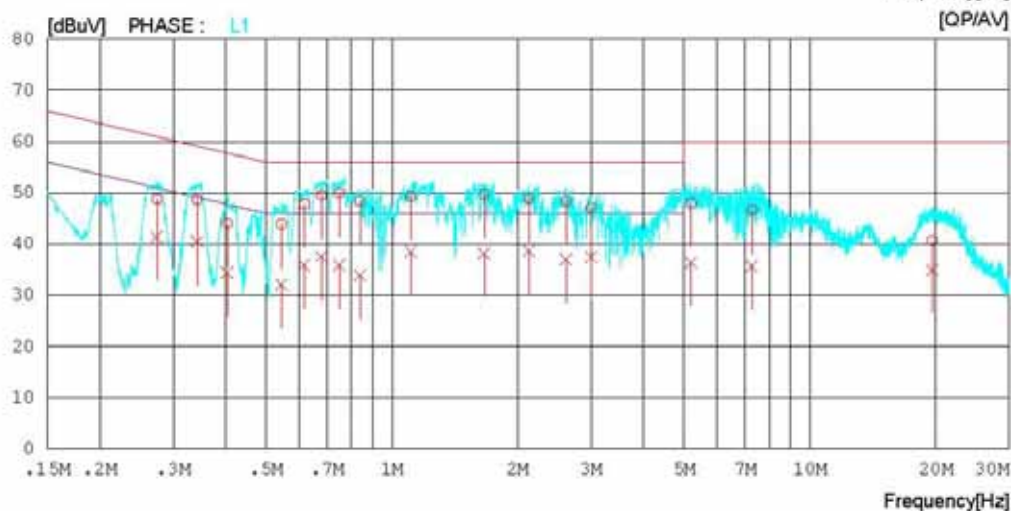
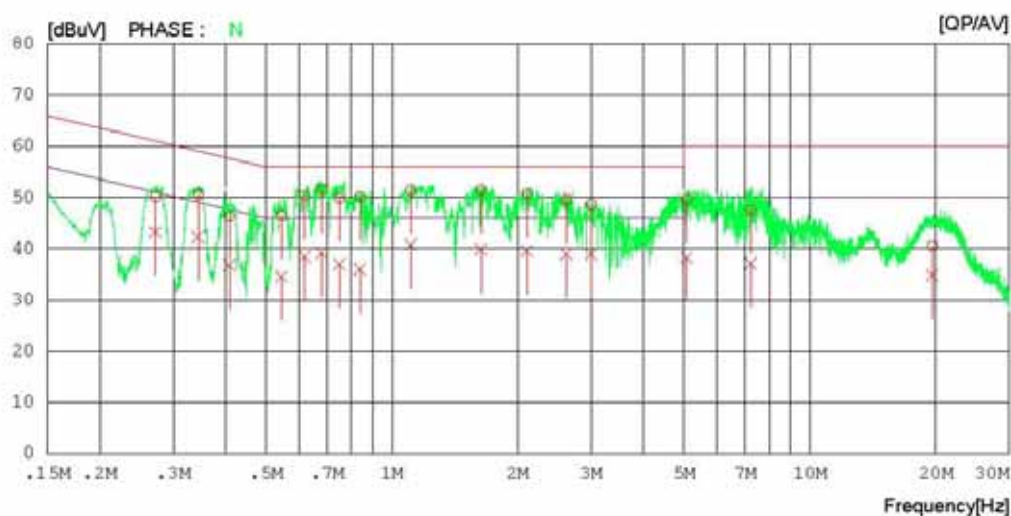
Digital EMC
 Date : 2011-12-26

Model No. : 42CS570-UD
 Type :
 Serial No. :
 Test Condition : DSUB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 19 °C 33 % R.H.
 Operator :

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2011-12-26

Model No. : 42CS570-UD
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19 °C 33 % 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	0.27220	50.0	43.2	0.1	50.1	43.3	61.1	51.1	11.0	7.8	N
2	0.34399	50.4	42.1	0.2	50.6	42.3	59.1	49.1	8.5	6.8	N
3	0.40828	46.1	36.6	0.2	46.3	36.8	57.7	47.7	11.4	10.9	N
4	0.54458	46.4	34.5	0.1	46.5	34.6	56.0	46.0	9.5	11.4	N
5	0.61841	50.3	38.3	0.1	50.4	38.4	56.0	46.0	5.6	7.6	N
6	0.68116	51.5	39.1	0.1	51.6	39.2	56.0	46.0	4.4	6.8	N
7	0.74908	49.8	36.9	0.1	49.9	37.0	56.0	46.0	6.1	9.0	N
8	0.83876	50.0	35.8	0.2	50.2	36.0	56.0	46.0	5.8	10.0	N
9	1.11200	51.3	40.6	0.2	51.5	40.8	56.0	46.0	4.5	5.2	N
10	1.63500	51.3	39.7	0.2	51.5	39.9	56.0	46.0	4.5	6.1	N
11	2.11000	50.4	39.3	0.3	50.7	39.6	56.0	46.0	5.3	6.4	N
12	2.61150	49.3	38.7	0.3	49.6	39.0	56.0	46.0	6.4	7.0	N
13	2.99850	48.3	38.7	0.3	48.6	39.0	56.0	46.0	7.4	7.0	N
14	5.08200	49.3	37.9	0.4	49.7	38.3	60.0	50.0	10.3	11.7	N
15	7.21400	47.0	36.7	0.5	47.5	37.2	60.0	50.0	12.5	12.8	N
16	19.64050	39.5	33.6	1.1	40.6	34.7	60.0	50.0	19.4	15.3	N
17	0.27435	48.7	41.3	0.1	48.8	41.4	61.0	51.0	12.2	9.6	L1
18	0.34248	48.5	40.3	0.2	48.7	40.5	59.1	49.1	10.4	8.6	L1
19	0.40368	43.8	34.2	0.2	44.0	34.4	57.8	47.8	13.8	13.4	L1
20	0.54434	43.8	31.9	0.1	43.9	32.0	56.0	46.0	12.1	14.0	L1
21	0.61771	47.7	35.8	0.1	47.8	35.9	56.0	46.0	8.2	10.1	L1
22	0.67978	49.4	37.5	0.1	49.5	37.6	56.0	46.0	6.5	8.4	L1
23	0.74884	49.9	35.8	0.1	50.0	35.9	56.0	46.0	6.0	10.1	L1
24	0.83959	48.2	33.7	0.2	48.4	33.9	56.0	46.0	7.6	12.1	L1
25	1.11000	49.1	38.3	0.2	49.3	38.5	56.0	46.0	6.7	7.5	L1
26	1.66400	49.5	38.0	0.2	49.7	38.2	56.0	46.0	6.3	7.8	L1
27	2.12750	48.6	38.4	0.3	48.9	38.7	56.0	46.0	7.1	7.3	L1
28	2.61050	48.2	36.7	0.3	48.5	37.0	56.0	46.0	7.5	9.0	L1
29	2.99800	46.8	37.1	0.3	47.1	37.4	56.0	46.0	8.9	8.6	L1
30	5.19800	47.6	36.0	0.4	48.0	36.4	60.0	50.0	12.0	13.6	L1
31	7.26950	46.2	35.1	0.5	46.7	35.6	60.0	50.0	13.3	14.4	L1
32	19.63050	39.6	33.9	1.1	40.7	35.0	60.0	50.0	19.3	15.0	L1

< HDMI MODE >



Results of Conducted Emission

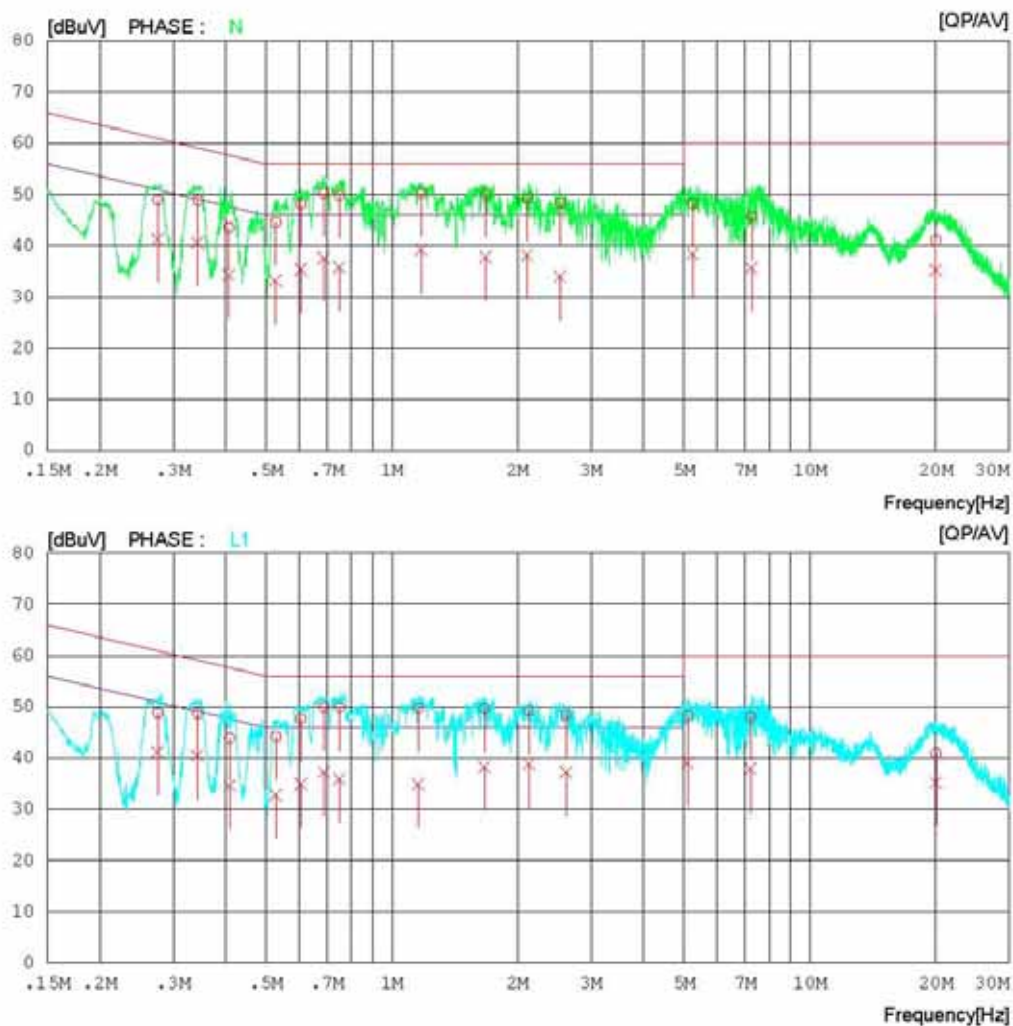
Digital EMC
Date : 2011-12-26

Model No. : 42CS570-UD
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19 °C 33 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B OP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2011-12-26

Model No. : 42CS570-UD
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19 °C 33 % 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	0.27556	48.9	41.1	0.1	49.0	41.2	60.9	50.9	11.9	9.7	N
2	0.34371	48.7	40.4	0.2	48.9	40.6	59.1	49.1	10.2	8.5	N
3	0.40743	43.4	34.1	0.2	43.6	34.3	57.7	47.7	14.1	13.4	N
4	0.52756	44.5	33.1	0.1	44.6	33.2	56.0	46.0	11.4	12.8	N
5	0.60556	48.0	35.3	0.1	48.1	35.4	56.0	46.0	7.9	10.6	N
6	0.68686	50.2	37.5	0.1	50.3	37.6	56.0	46.0	5.7	8.4	N
7	0.74820	49.7	35.7	0.1	49.8	35.8	56.0	46.0	6.2	10.2	N
8	1.17850	50.1	38.9	0.2	50.3	39.1	56.0	46.0	5.7	6.9	N
9	1.67850	49.8	37.6	0.2	50.0	37.8	56.0	46.0	6.0	8.2	N
10	2.11050	49.0	37.9	0.3	49.3	38.2	56.0	46.0	6.7	7.8	N
11	2.53200	48.1	33.7	0.3	48.4	34.0	56.0	46.0	7.6	12.0	N
12	5.24600	47.8	38.1	0.4	48.2	38.5	60.0	50.0	11.8	11.5	N
13	7.25650	45.2	35.2	0.5	45.7	35.7	60.0	50.0	14.3	14.3	N
14	20.01850	40.0	34.2	1.1	41.1	35.3	60.0	50.0	18.9	14.7	N
15	0.27550	48.7	41.0	0.1	48.8	41.1	61.0	51.0	12.2	9.9	L1
16	0.34319	48.5	40.2	0.2	48.7	40.4	59.1	49.1	10.4	8.7	L1
17	0.40951	43.7	34.4	0.2	43.9	34.6	57.7	47.7	13.8	13.1	L1
18	0.52796	44.1	32.7	0.1	44.2	32.8	56.0	46.0	11.8	13.2	L1
19	0.60585	47.6	34.8	0.1	47.7	34.9	56.0	46.0	8.3	11.1	L1
20	0.68710	49.8	37.2	0.1	49.9	37.3	56.0	46.0	6.1	8.7	L1
21	0.74901	49.8	35.8	0.1	49.9	35.9	56.0	46.0	6.1	10.1	L1
22	1.15750	49.5	34.7	0.2	49.7	34.9	56.0	46.0	6.3	11.1	L1
23	1.66500	49.5	38.1	0.2	49.7	38.3	56.0	46.0	6.3	7.7	L1
24	2.12850	48.9	38.6	0.3	49.2	38.9	56.0	46.0	6.8	7.1	L1
25	2.61150	48.1	37.0	0.3	48.4	37.3	56.0	46.0	7.6	8.7	L1
26	5.10900	47.9	38.7	0.4	48.3	39.1	60.0	50.0	11.7	10.9	L1
27	7.21450	47.5	37.4	0.5	48.0	37.9	60.0	50.0	12.0	12.1	L1
28	20.04850	39.8	34.1	1.1	40.9	35.2	60.0	50.0	19.1	14.8	L1

< USB MODE >



Results of Conducted Emission

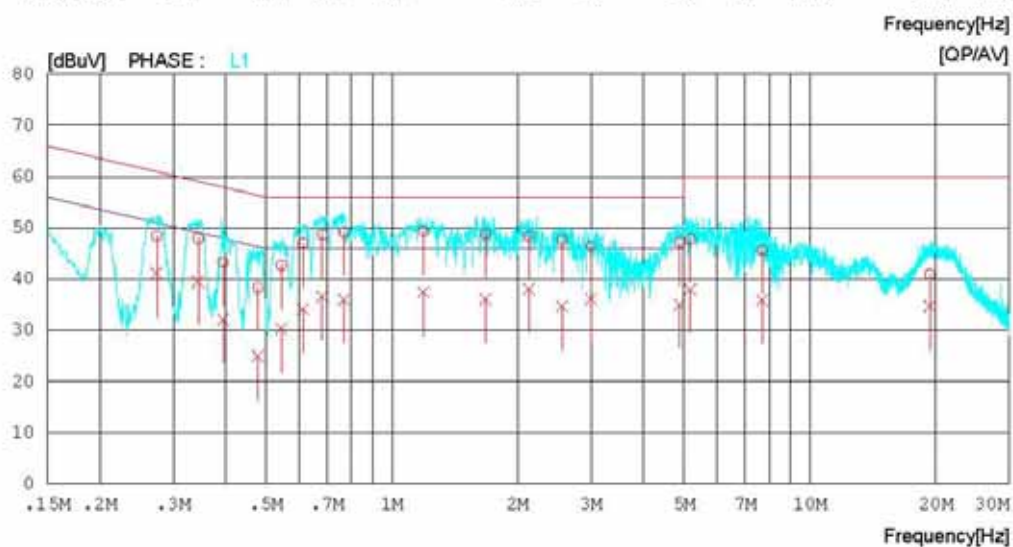
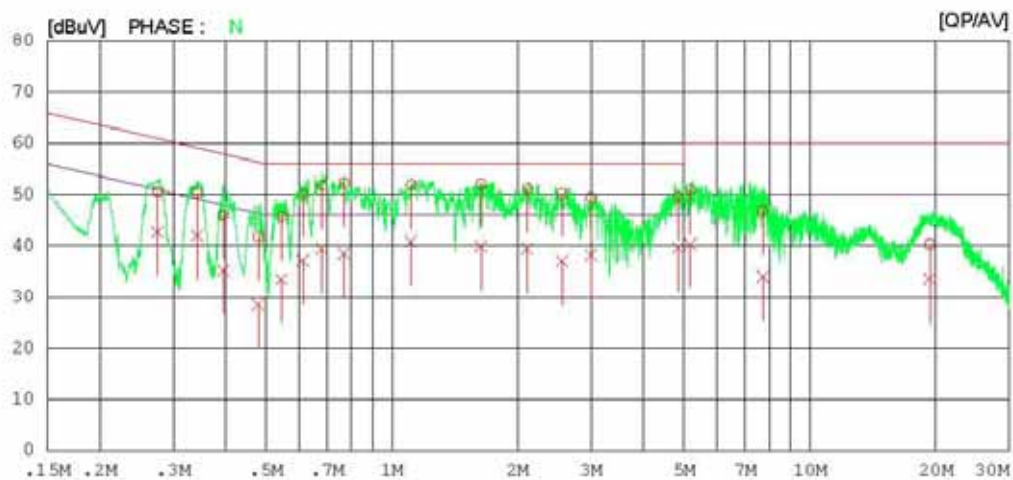
Digital EMC
 Date : 2011-12-26

Model No. : 42CS570-UD
 Type :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 19 °C 33 % R.H.
 Operator :

Memo :

LIMIT : CISPR22_B OP
 CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2011-12-26

Model No. : 42CS570-UD
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19 °C 33 % 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	0.27516	50.4	42.6	0.1	50.5	42.7	61.0	51.0	10.5	8.3	N
2	0.34259	50.1	41.7	0.2	50.3	41.9	59.1	49.1	8.8	7.2	N
3	0.39513	45.7	35.0	0.2	45.9	35.2	58.0	48.0	12.1	12.8	N
4	0.47880	41.7	28.5	0.1	41.8	28.6	56.4	46.4	14.6	17.8	N
5	0.54494	45.7	33.3	0.1	45.8	33.4	56.0	46.0	10.2	12.6	N
6	0.61286	50.0	37.0	0.1	50.1	37.1	56.0	46.0	5.9	8.9	N
7	0.68065	51.7	39.3	0.1	51.8	39.4	56.0	46.0	4.2	6.6	N
8	0.76925	52.1	38.4	0.1	52.2	38.5	56.0	46.0	3.8	7.5	N
9	1.11250	51.7	40.6	0.2	51.9	40.8	56.0	46.0	4.1	5.2	N
10	1.63500	51.8	39.7	0.2	52.0	39.9	56.0	46.0	4.0	6.1	N
11	2.11000	50.8	39.1	0.3	51.1	39.4	56.0	46.0	4.9	6.6	N
12	2.55450	49.9	36.7	0.3	50.2	37.0	56.0	46.0	5.8	9.0	N
13	2.99550	49.2	37.9	0.3	49.5	38.2	56.0	46.0	6.5	7.8	N
14	4.84100	49.1	39.2	0.4	49.5	39.6	56.0	46.0	6.5	6.4	N
15	5.17650	50.6	39.9	0.4	51.0	40.3	60.0	50.0	9.0	9.7	N
16	7.72050	46.3	33.5	0.5	46.8	34.0	60.0	50.0	13.2	16.0	N
17	19.35100	39.2	32.3	1.1	40.3	33.4	60.0	50.0	19.7	16.6	N
18	0.27394	48.3	41.0	0.1	48.4	41.1	61.0	51.0	12.6	9.9	L1
19	0.34428	47.7	39.3	0.2	47.9	39.5	59.1	49.1	11.2	9.6	L1
20	0.39495	43.0	31.9	0.2	43.2	32.1	58.0	48.0	14.8	15.9	L1
21	0.47834	38.2	24.9	0.1	38.3	25.0	56.4	46.4	18.1	21.4	L1
22	0.54429	42.6	30.2	0.1	42.7	30.3	56.0	46.0	13.3	15.7	L1
23	0.61309	46.9	34.0	0.1	47.0	34.1	56.0	46.0	9.0	11.9	L1
24	0.68210	48.6	36.5	0.1	48.7	36.6	56.0	46.0	7.3	9.4	L1
25	0.76803	49.0	35.9	0.1	49.1	36.0	56.0	46.0	6.9	10.0	L1
26	1.18900	49.2	37.3	0.2	49.4	37.5	56.0	46.0	6.6	8.5	L1
27	1.67750	48.6	35.9	0.2	48.8	36.1	56.0	46.0	7.2	9.9	L1
28	2.12850	48.1	37.8	0.3	48.4	38.1	56.0	46.0	7.6	7.9	L1
29	2.55400	47.3	34.4	0.3	47.6	34.7	56.0	46.0	8.4	11.3	L1
30	2.99900	46.1	35.8	0.3	46.4	36.1	56.0	46.0	9.6	9.9	L1
31	4.88400	46.8	34.6	0.4	47.2	35.0	56.0	46.0	8.8	11.0	L1
32	5.17350	47.4	37.6	0.4	47.8	38.0	60.0	50.0	12.2	12.0	L1
33	7.69800	45.1	35.4	0.5	45.6	35.9	60.0	50.0	14.4	14.1	L1
34	19.34700	39.8	33.6	1.1	40.9	34.7	60.0	50.0	19.1	15.3	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 (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 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 (dBμV/m)	Quasi-peak (dBμV/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 (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Test Result

< DSUB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

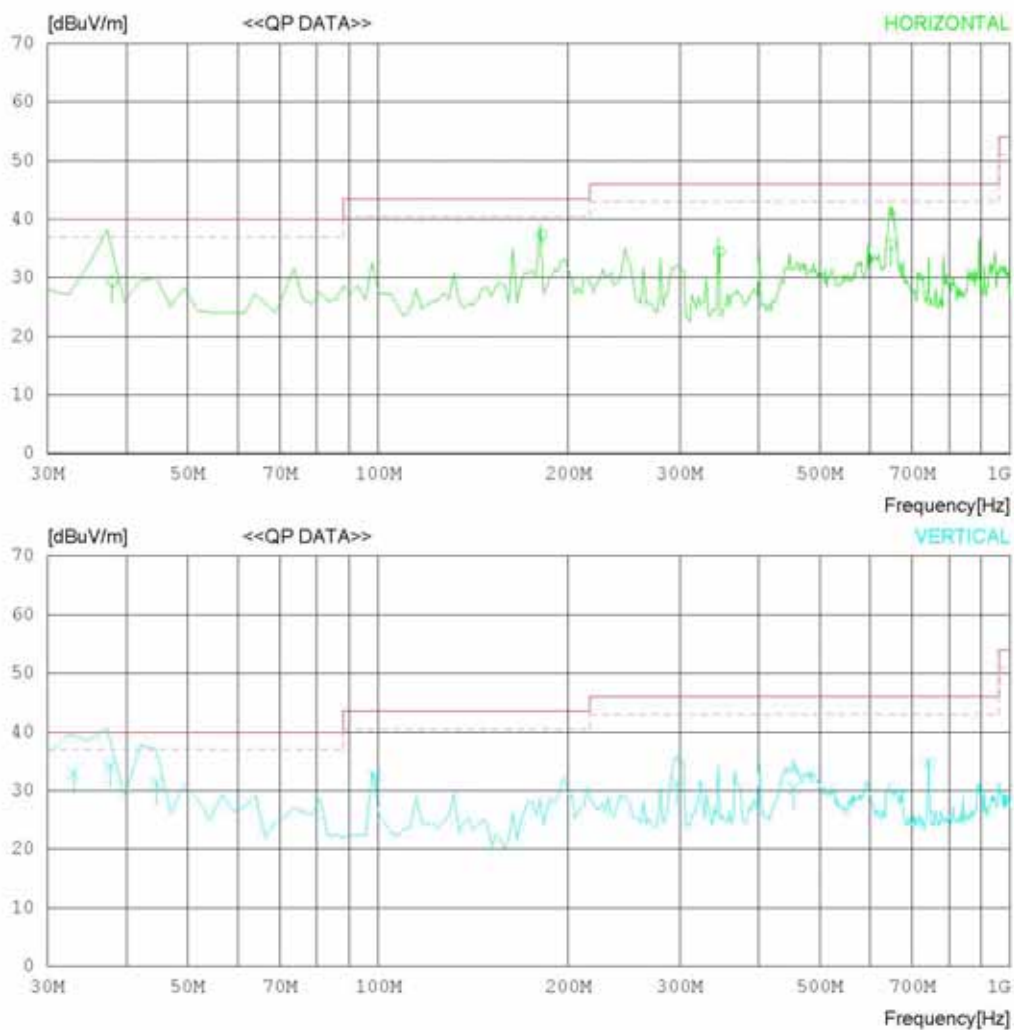
Date : 2011-12-28

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : DSUB

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

Memo :

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



RADIATED EMISSION

Date : 2011-12-28

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °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	37.981	36.0	15.0	0.9	22.6	29.3	40.0	10.7	100	63
2	181.500	48.7	9.8	2.0	23.2	37.3	43.5	6.2	100	357
3	346.502	41.0	14.8	2.7	24.1	34.4	46.0	11.6	100	236
4	648.020	37.1	18.8	4.0	24.2	35.7	46.0	10.3	100	345
----- Vertical -----										
5	33.000	37.7	17.0	0.9	22.6	33.0	40.0	7.0	100	1
6	37.750	40.8	15.1	0.9	22.6	34.2	40.0	5.8	100	11
7	44.600	38.7	14.2	1.0	22.6	31.3	40.0	8.7	100	142
8	99.000	43.2	10.6	1.5	22.7	32.6	43.5	10.9	100	214
9	297.329	38.7	13.8	2.6	23.8	31.3	46.0	14.7	100	198
10	454.374	34.8	16.9	3.2	24.5	30.4	46.0	15.6	100	23
11	743.170	34.8	19.5	4.4	23.9	34.8	46.0	11.2	100	19

< DSUB MODE_1 GHz ~ 6 GHz_PEAK >

RADIATED EMISSION

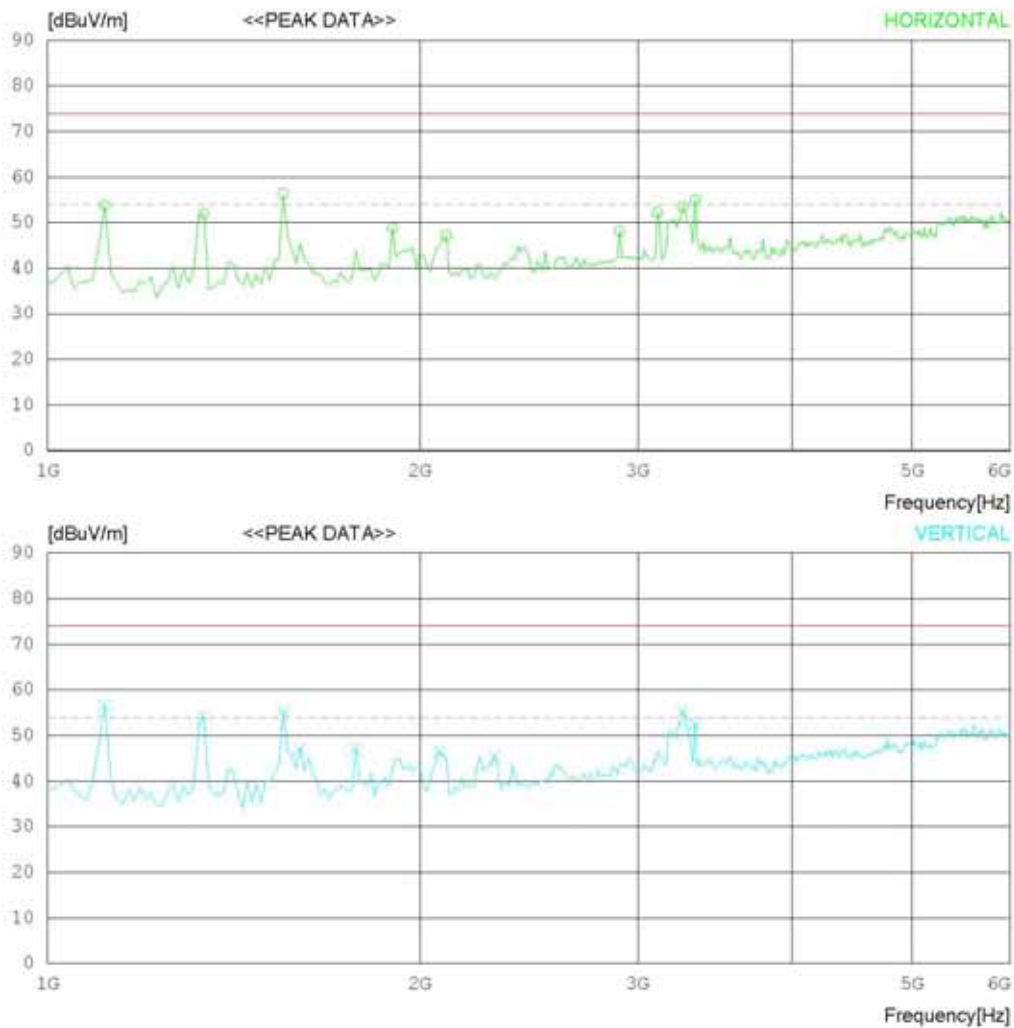
Date : 2011-12-29

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : DSUB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °C 31 % 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 : 2011-12-29

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 31 % 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	1112.500	66.5	24.0	5.1	41.8	53.8	74.0	20.2	100	8
2	1337.500	63.6	24.6	5.6	41.9	51.9	74.0	22.1	100	1
3	1550.000	67.1	25.1	6.1	41.9	56.4	74.0	17.6	100	1
4	1900.000	58.8	25.2	6.8	42.0	48.8	74.0	25.2	100	66
5	2100.000	56.3	25.6	7.2	42.0	47.1	74.0	26.9	100	28
6	2900.000	53.1	28.5	8.6	42.1	48.1	74.0	25.9	100	1
7	3112.500	56.5	28.9	8.9	42.1	52.2	74.0	21.8	100	1
8	3262.500	57.3	29.0	9.1	42.0	53.4	74.0	20.6	100	9
9	3337.500	58.8	29.0	9.2	42.0	55.0	74.0	19	100	1
----- Vertical -----										
10	1112.500	69.2	24.0	5.1	41.8	56.5	74.0	17.5	100	44
11	1337.500	65.8	24.6	5.6	41.9	54.1	74.0	19.9	100	45
12	1550.000	66.0	25.1	6.1	41.9	55.3	74.0	18.7	100	358
13	1600.000	57.5	25.2	6.2	41.9	47.0	74.0	27	100	36
14	1775.000	57.3	25.2	6.5	42.0	47.0	74.0	27	100	54
15	2075.000	55.7	25.5	7.1	42.0	46.3	74.0	27.7	100	358
16	2300.000	53.3	26.5	7.5	42.0	45.3	74.0	28.7	100	20
17	3262.500	59.0	29.0	9.1	42.0	55.1	74.0	18.9	100	358
18	3337.500	56.4	29.0	9.2	42.0	52.6	74.0	21.4	100	314

< DSUB MODE_1 GHz ~ 6 GHz_AV >

RADIATED EMISSION

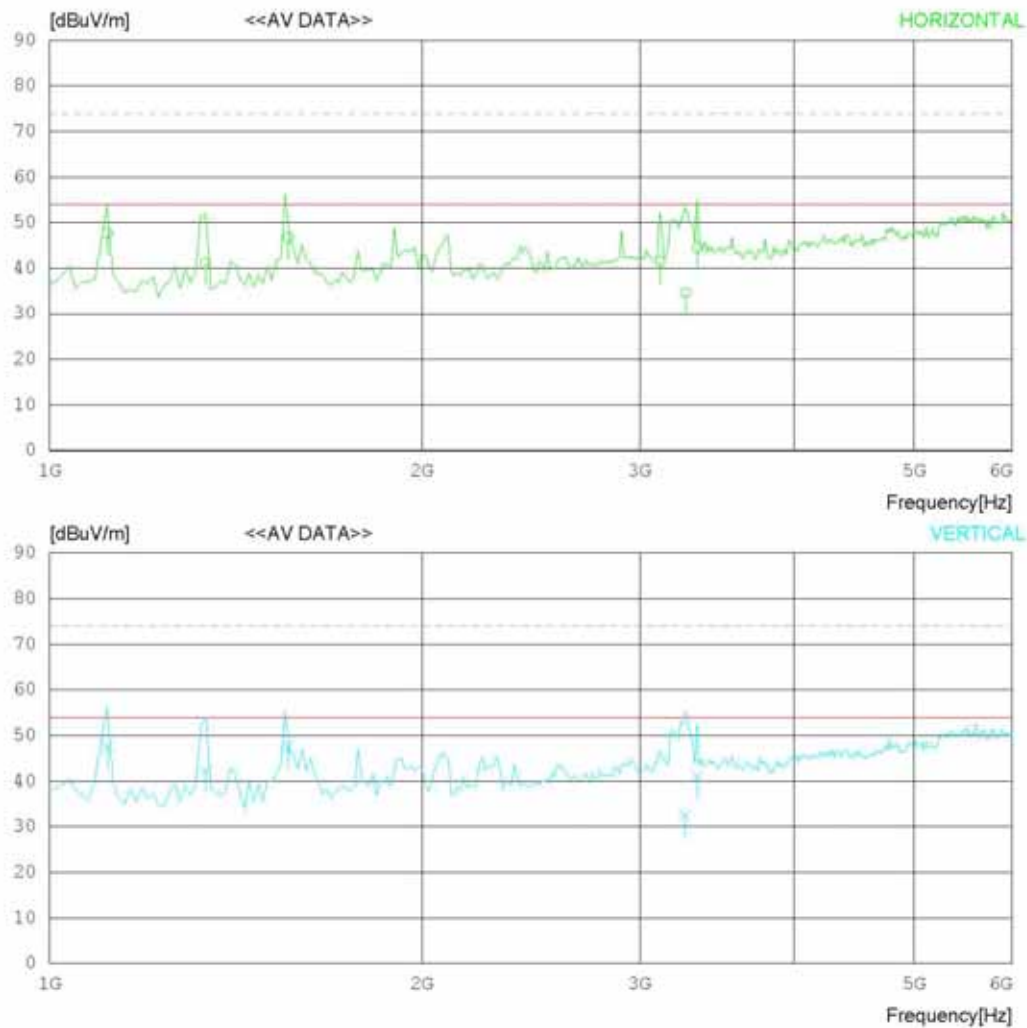
Date : 2011-12-29

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : DSUB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °C 31 % 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 : 2011-12-29

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 31 % R.H.
Test Condition : DSUB	Operator :

Memo :

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

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1113.775	60.3	24.0	5.1	41.8	47.6	54.0	6.4	100	8
2	1336.542	52.8	24.6	5.6	41.9	41.1	54.0	12.9	100	1
3	1559.311	57.4	25.1	6.1	41.9	46.7	54.0	7.3	100	1
4	3115.228	45.8	28.9	8.9	42.1	41.5	54.0	12.5	100	1
5	3266.869	38.6	29.0	9.1	42.0	34.7	54.0	19.3	100	9
6	3341.300	48.2	29.0	9.2	42.0	44.4	54.0	9.6	100	1
----- Vertical -----										
7	1113.770	60.3	24.0	5.1	41.8	47.6	54.0	6.4	100	44
8	1336.539	54.0	24.6	5.6	41.9	42.3	54.0	11.7	100	45
9	1559.218	58.3	25.1	6.1	41.9	47.6	54.0	6.4	100	358
10	3265.200	36.4	29.0	9.1	42.0	32.5	54.0	21.5	100	358
11	3341.410	44.9	29.0	9.2	42.0	41.1	54.0	12.9	100	314

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

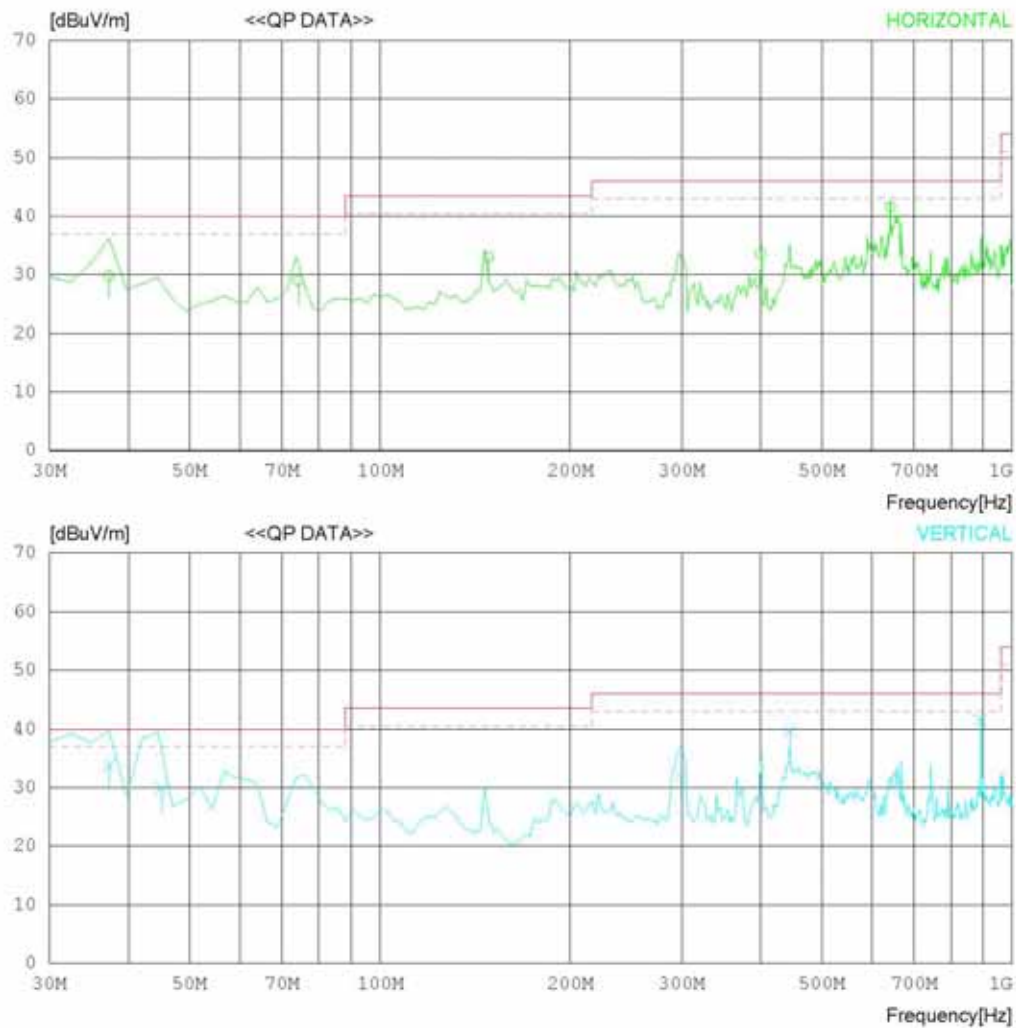
Date : 2011-12-28

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : HDMI

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

Memo :

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



RADIATED EMISSION

Date : 2011-12-28

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °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	37.275	36.1	15.4	0.9	22.6	29.8	40.0	10.2	100	14
2	74.187	43.6	6.7	1.3	22.6	29.0	40.0	11.0	241	358
3	148.375	43.9	10.5	1.7	23.1	33.0	43.5	10.5	182	104
4	400.008	39.0	16.0	3.0	24.4	33.6	46.0	12.4	100	1
5	641.500	43.0	18.8	4.0	24.2	41.6	46.0	4.4	100	34
----- Vertical -----										
6	37.275	40.1	15.4	0.9	22.6	33.8	40.0	6.2	100	75
7	45.100	37.4	14.1	1.0	22.6	29.9	40.0	10.1	100	42
8	299.175	39.4	13.8	2.6	23.9	31.9	46.0	14.1	100	346
9	445.050	44.3	16.7	3.2	24.5	39.7	46.0	6.3	100	66
10	890.125	39.4	20.6	4.8	23.3	41.5	46.0	4.5	100	358

< HDMI MODE_1 GHz ~ 6 GHz_PEAK >

RADIATED EMISSION

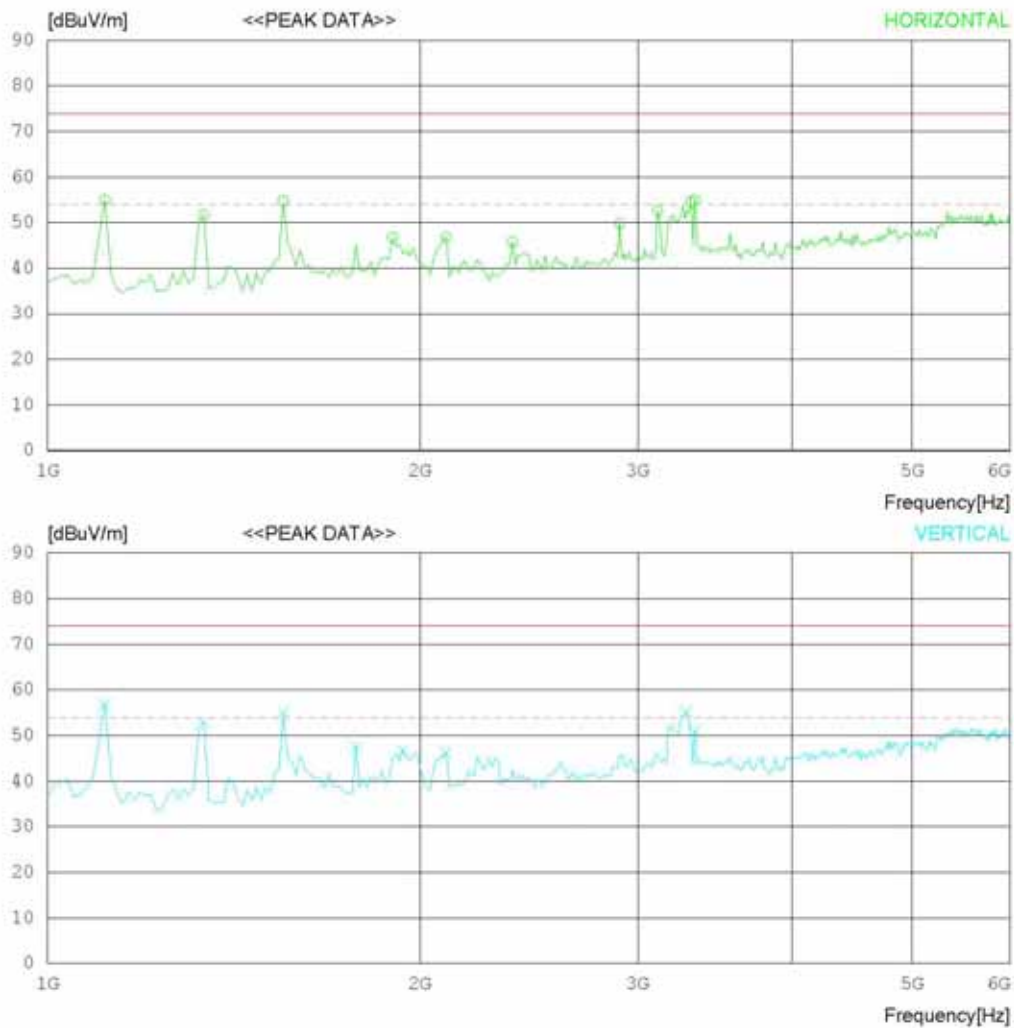
Date : 2011-12-29

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °C 31 % 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 : 2011-12-29

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19°C 31 % 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	1112.500	67.8	24.0	5.1	41.8	55.1	74.0	18.9	100	1
2	1337.500	63.4	24.6	5.6	41.9	51.7	74.0	22.3	100	1
3	1550.000	65.4	25.1	6.1	41.9	54.7	74.0	19.3	100	1
4	1900.000	56.7	25.2	6.8	42.0	46.7	74.0	27.3	100	48
5	2100.000	56.1	25.6	7.2	42.0	46.9	74.0	27.1	100	1
6	2375.000	53.4	26.8	7.6	42.0	45.8	74.0	28.2	100	320
7	2900.000	54.8	28.5	8.6	42.1	49.8	74.0	24.2	100	329
8	3112.500	56.9	28.9	8.9	42.1	52.6	74.0	21.4	100	1
9	3312.500	58.3	29.0	9.2	42.0	54.5	74.0	19.5	100	359
10	3337.500	58.8	29.0	9.2	42.0	55.0	74.0	19	100	1
----- Vertical -----										
11	1112.500	69.6	24.0	5.1	41.8	56.9	74.0	17.1	100	43
12	1337.500	64.5	24.6	5.6	41.9	52.8	74.0	21.2	100	346
13	1550.000	65.5	25.1	6.1	41.9	54.8	74.0	19.2	100	358
14	1775.000	57.9	25.2	6.5	42.0	47.6	74.0	26.4	100	358
15	1937.500	56.5	25.2	6.9	42.0	46.6	74.0	27.4	100	19
16	2100.000	55.5	25.6	7.2	42.0	46.3	74.0	27.7	100	29
17	3287.500	59.1	29.0	9.2	42.0	55.3	74.0	18.7	100	358
18	3337.500	54.8	29.0	9.2	42.0	51.0	74.0	23	100	358

< HDMI MODE_1 GHz ~ 6 GHz_AV >

RADIATED EMISSION

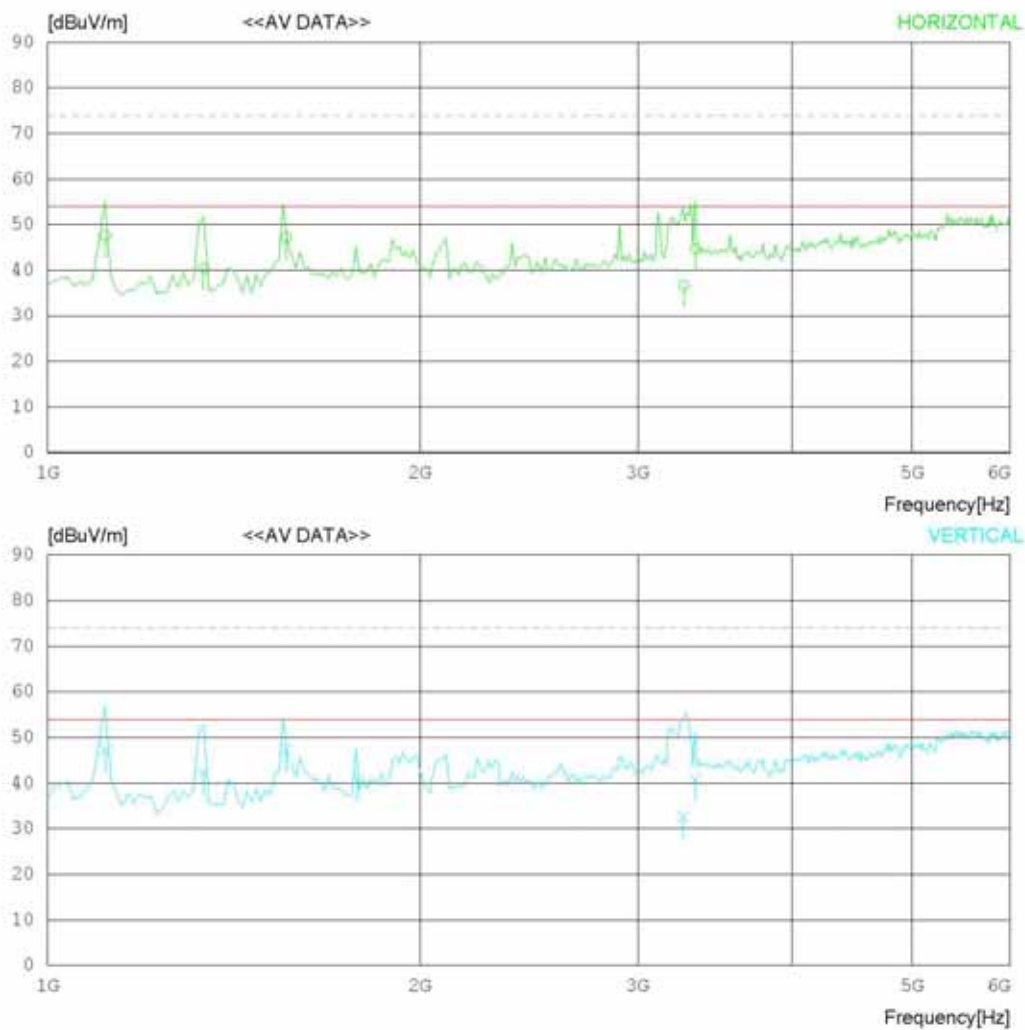
Date : 2011-12-29

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °C 31 % 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 : 2011-12-29

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 31 % 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	1113.775	60.2	24.0	5.1	41.8	47.5	54.0	6.5	100	1
2	1336.500	52.2	24.6	5.6	41.9	40.5	54.0	13.5	100	1
3	1559.290	57.8	25.1	6.1	41.9	47.1	54.0	6.9	100	1
4	3266.966	40.6	29.0	9.1	42.0	36.7	54.0	17.3	100	359
5	3341.300	48.5	29.0	9.2	42.0	44.7	54.0	9.3	100	1
----- Vertical -----										
6	1113.775	59.8	24.0	5.1	41.8	47.1	54.0	6.9	100	43
7	1336.530	54.0	24.6	5.6	41.9	42.3	54.0	11.7	100	346
8	1559.290	58.0	25.1	6.1	41.9	47.3	54.0	6.7	100	358
9	1782.040	51.0	25.2	6.5	42.0	40.7	54.0	13.3	100	358
10	3265.244	36.5	29.0	9.1	42.0	32.6	54.0	21.4	100	358
11	3341.313	44.5	29.0	9.2	42.0	40.7	54.0	13.3	100	358

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

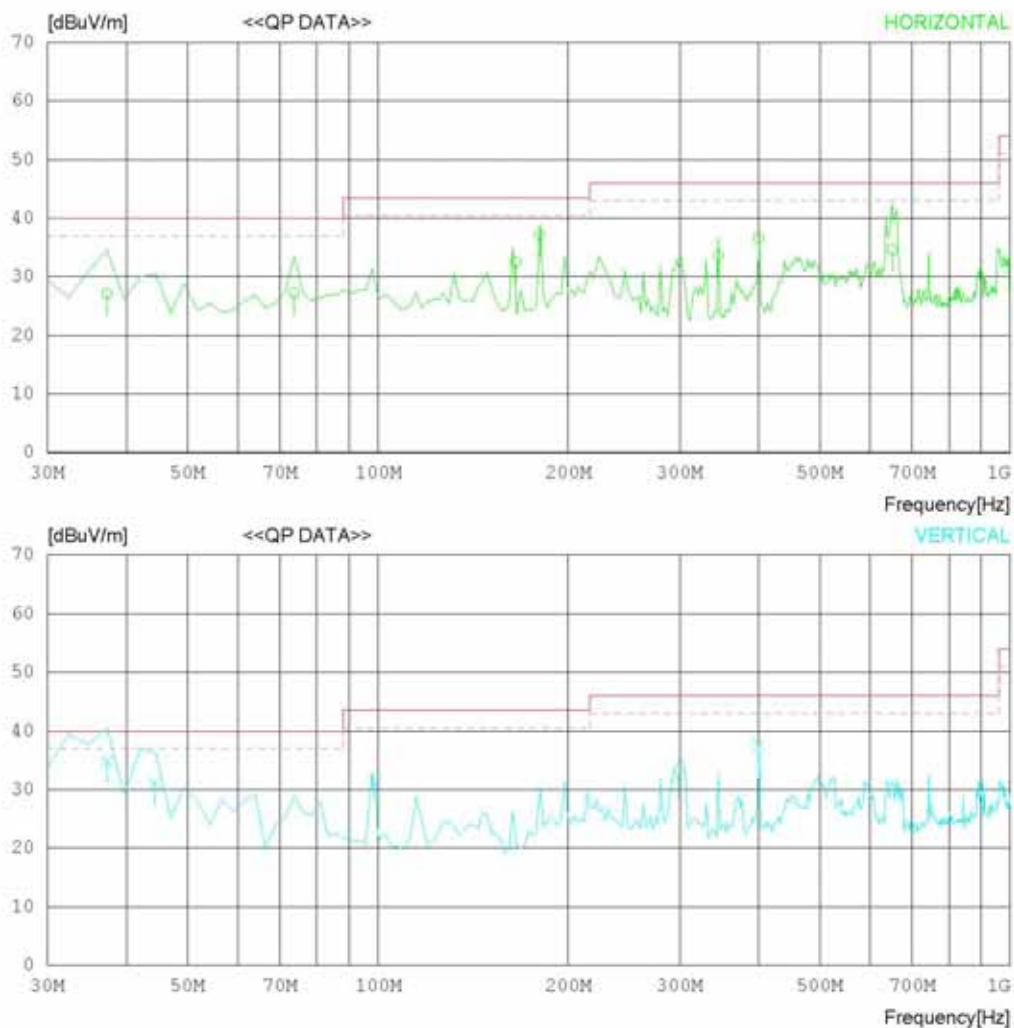
Date : 2011-12-28

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : USB

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

Memo :

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



RADIATED EMISSION

Date : 2011-12-28

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 18 °C 32 % 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	37.275	33.4	15.4	0.9	22.6	27.1	40.0	12.9	100	353
2	73.650	41.9	6.6	1.3	22.6	27.2	40.0	12.8	200	1
3	165.000	43.7	10.1	1.8	23.1	32.5	43.5	11.0	200	359
4	180.350	48.6	9.8	2.0	23.2	37.2	43.5	6.3	100	350
5	345.250	40.2	14.8	2.7	24.1	33.6	46.0	12.4	100	358
6	400.000	42.0	16.0	3.0	24.4	36.6	46.0	9.4	100	358
7	650.798	36.0	18.8	4.0	24.2	34.6	46.0	11.4	100	346
----- Vertical -----										
8	37.275	41.1	15.4	0.9	22.6	34.8	40.0	5.2	100	355
9	44.300	38.6	14.1	1.0	22.6	31.1	40.0	8.9	100	358
10	98.985	41.9	10.6	1.5	22.7	31.3	43.5	12.2	100	155
11	299.006	39.9	13.8	2.6	23.9	32.4	46.0	13.6	100	120
12	400.000	43.1	16.0	3.0	24.4	37.7	46.0	8.3	139	145

< USB MODE_1 GHz ~ 6 GHz_PEAK >

RADIATED EMISSION

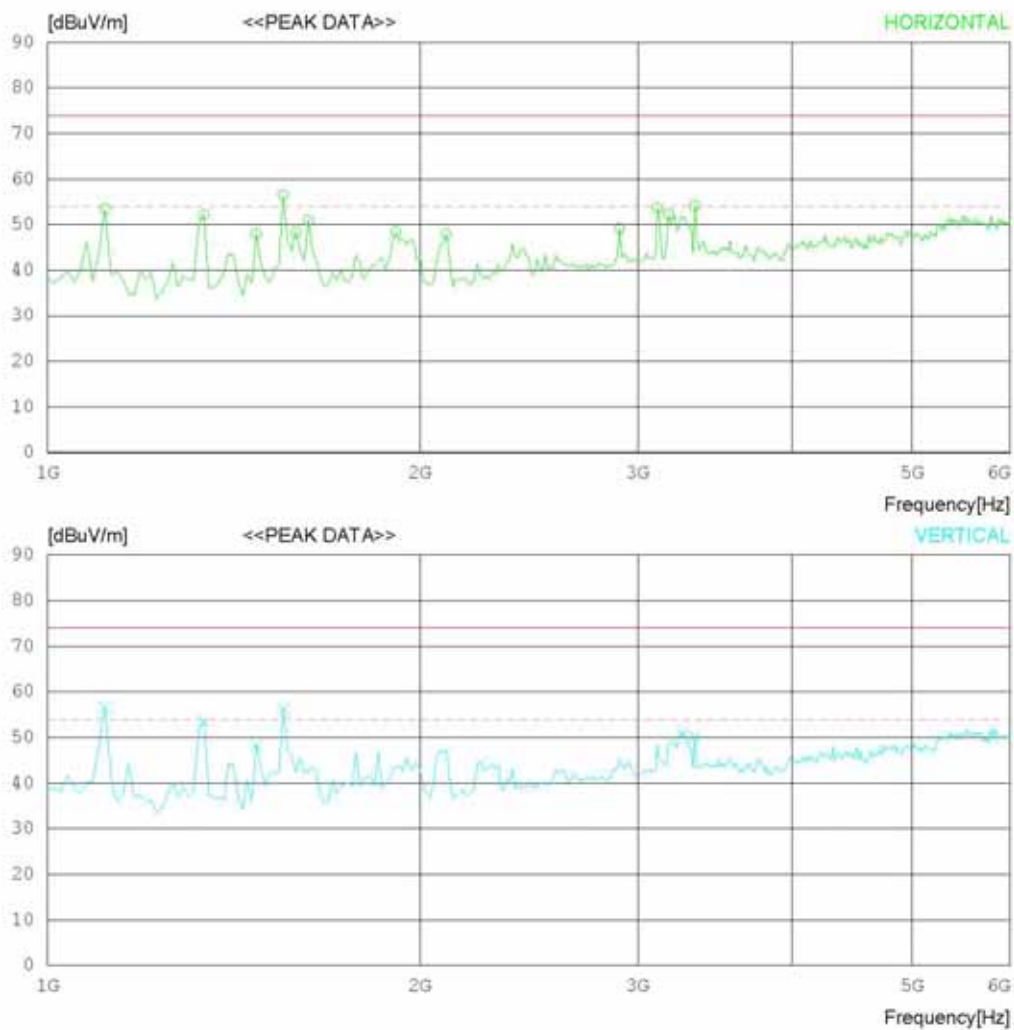
Date : 2011-12-29

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °C 31 % 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 : 2011-12-29

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 31 % 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	1112.500	66.2	24.0	5.1	41.8	53.5	74.0	20.5	100	293
2	1337.500	63.9	24.6	5.6	41.9	52.2	74.0	21.8	100	358
3	1475.000	58.9	25.1	5.9	41.9	48.0	74.0	26	100	99
4	1550.000	67.2	25.1	6.1	41.9	56.5	74.0	17.5	100	46
5	1587.500	58.9	25.2	6.1	41.9	48.3	74.0	25.7	100	143
6	1625.000	61.5	25.2	6.2	41.9	51.0	74.0	23	100	358
7	1912.500	58.4	25.2	6.8	42.0	48.4	74.0	25.6	100	63
8	2100.000	57.1	25.6	7.2	42.0	47.9	74.0	26.1	100	30
9	2900.000	54.2	28.5	8.6	42.1	49.2	74.0	24.8	100	358
10	3112.500	57.9	28.9	8.9	42.1	53.6	74.0	20.4	100	358
11	3175.000	56.4	28.9	9.0	42.0	52.3	74.0	21.7	100	358
12	3337.500	57.9	29.0	9.2	42.0	54.1	74.0	19.9	100	358
----- Vertical -----										
13	1112.500	69.2	24.0	5.1	41.8	56.5	74.0	17.5	100	1
14	1337.500	65.3	24.6	5.6	41.9	53.6	74.0	20.4	100	1
15	1475.000	59.2	25.1	5.9	41.9	48.3	74.0	25.7	100	314
16	1550.000	66.9	25.1	6.1	41.9	56.2	74.0	17.8	100	48
17	3262.500	54.9	29.0	9.1	42.0	51.0	74.0	23	100	1
18	3337.500	54.0	29.0	9.2	42.0	50.2	74.0	23.8	100	1

< USB MODE_1 GHz ~ 6 GHz_AV >

RADIATED EMISSION

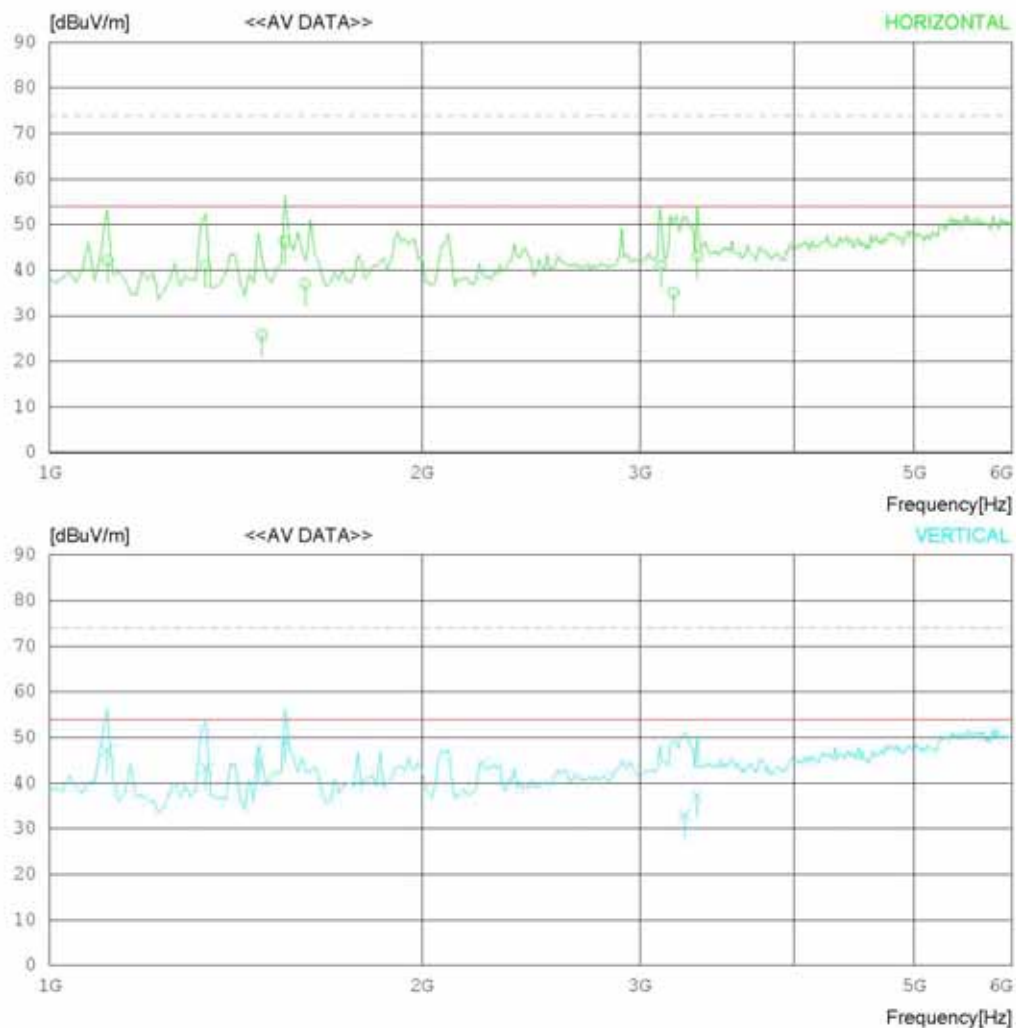
Date : 2011-12-29

Model Name : 42CS570-UD
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °C 31 % 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 : 2011-12-29

Model Name : 42CS570-UD	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 31 % 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	1113.778	54.9	24.0	5.1	41.8	42.2	54.0	11.8	100	293
2	1336.525	52.6	24.6	5.6	41.9	40.9	54.0	13.1	100	358
3	1485.000	36.7	25.1	5.9	41.9	25.8	54.0	28.2	100	99
4	1550.000	57.0	25.1	6.1	41.9	46.3	54.0	7.7	100	46
5	1608.790	47.5	25.2	6.2	41.9	37.0	54.0	17.0	100	358
6	3118.550	45.3	28.9	8.9	42.1	41.0	54.0	13.0	100	358
7	3192.875	39.2	28.9	9.0	42.0	35.1	54.0	18.9	100	358
8	3337.500	46.8	29.0	9.2	42.0	43.0	54.0	11.0	100	358
----- Vertical -----										
9	1112.500	59.8	24.0	5.1	41.8	47.1	54.0	6.9	100	1
10	1337.500	55.1	24.6	5.6	41.9	43.4	54.0	10.6	100	1
11	1475.000	55.6	25.1	5.9	41.9	44.7	54.0	9.3	100	314
12	1550.000	60.0	25.1	6.1	41.9	49.3	54.0	4.7	100	48
13	3262.500	36.8	29.0	9.1	42.0	32.9	54.0	21.1	100	1
14	3337.500	41.0	29.0	9.2	42.0	37.2	54.0	16.8	100	1

Appendix 1

List of Test and Measurement Instruments

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐ SPECTRUM ANALYZER	8591E	H/P	3649A05889	2011.03.07	2012.03.07
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2011.07.02	2012.07.02
☐ LISN	KNW-407	KYORITSU	8-317-8	2011.01.11	2012.01.11
☐ LISN	KNW-242	KYORITSU	8-654-15	2011.07.01	2012.07.01
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2011.01.11	2012.01.11
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2011.03.08	2012.03.08
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2011.09.30	2012.09.30
☒ LISN	LISN1600	TTI	197204	2011.07.02	2012.07.02
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2011.01.11	2012.01.11

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2011.01.20	2012.01.20
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2010.07.14	2012.07.14
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2010.04.13	2012.04.13
☒ AMPLIFIER	8447E	H/P	2945A02865	2011.01.11	2012.01.11
☒ AMPLIFIER	MLA-00108-B02-36	TSJ	1518831	2011.01.11	2012.01.11
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2011.07.01	2012.07.01
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2011.07.01	2012.07.01
☐ BILOG ANTENNA	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2011.03.08	2012.03.08
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2010.11.29	2012.11.29
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2010.07.07	2012.07.07
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2010.12.21	2012.12.21
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2010.11.29	2012.11.29
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2011.03.07	2012.03.07