

EMC TEST REPORT

Project No.	LBE073181	Revision No.	None
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 Korea	
	Date of application	2007.09.05	
EUT Equipment Under Test	Type of device	Class B personal PRINTER and peripherals	
	Equipment authorization	☐ Declaration of Conformity ☒ Certification ☐ Verification	
	FCC ID	A3LGH30CPN ☐ Not applicable	
	Kind of product	PRINTER	
	Model No.	CLP-300N	
	Variant Model No.	CLP-300, Phaser 6110	
	Manufacturer	1) Samsung Electronics Co.,Ltd. 259, Gongdan-Dong, Gumi-City, Gyeongsangbuk-Do, 730-030 Korea 2) Samsung Electronics(Shandong) Digital Printing Co., Ltd. 264209, Samsung Road, Weihai Hi-Tech IDZ, Shandong Province, China 3) Weihai Shin Heung Digital Electronics Co., Ltd. 98, Samsung Road, Weihai Hi- Tech. IDZ, Shandong Province, P.R.China	
Applied Standards		FCC Part 15, Subpart B / ANSI C63.4-2003	
Issue date		2007.10.01	
Test result : Complied The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.)			
Tested by : Young Hun, Cheong 		Reviewed by : No Cheon, Park 	
This report is the test result about the sphere accredited by KOLAS which signed the Mutual Recognition Arrangement of International Laboratory Accreditation Cooperation. The test results in this report only apply to the tested sample. This report must not be reproduced, except in full, without written permission from SEC EMC Laboratory.			
 SEC EMC Laboratory 416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, 443-742 Korea Tel: 82 31 277 7752, Fax: 82 31 277 7753			

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1. Summary of test results

1.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result	Remarks
☒	Conducted Disturbance	FCC Part 15 Subpart B	Complied	Meets Class B Limit Minimum margin is 4.3 dB at 0.725 MHz
☒	Radiated Disturbance		Complied	Meets Class B Limit Minimum margin is 9.3 dB at 901.109 MHz

2. General Information

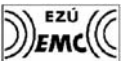
2.1 Test facility

The SEC EMC Laboratory is located on Samsung Electronics Co., Ltd. at 416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, South Korea.

All testing are performed in Semi-anechoic chambers conforming to the site attenuation Characteristics defined by ANSI C63.4, CISPR 22, 16-1 and 16-2. and Shielded rooms.

The SEC EMC Laboratory is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

2.2 Accreditation and listing

Laboratory Qualifications		Remarks
	KOLAS(Korea Laboratory Accreditation Scheme)	Accredited : 124
	Radio Research Laboratory	Accredited : KR0004
	FCC(Federal Communications Commission)	Accredited : KR0004
	National Voluntary Laboratory Accreditation Program	Lab Code: 200623-0
	Norges Elektriske Materiellkontroll	Accredited : ELA 195
	VCCI (Voluntary Control Council for Interference by Information Technology Equipment)	C-2421,R-2224
	China Quality Certification Center	5-053, 5-054
	TUV Rhineland	H9354285
	GOST(GOSTSTANDART)	ROSTEST
	Elektrotechnicky Zkusebni Ustav	Reg. No.: 001
	IC(Industry Canada)	Assigned Code: 5871

3. Test Setup configuration

3.1 Test Peripherals

The following is a listing of the EUT and peripherals utilized during the performance of EMC test:

Description	Model No.	Serial No.	Manufacturer	FCC ID
PRINTER	CLP-300N	-	Samsung Electronics(Shandong) Digital Printing Co., Ltd	A3LGH30CPN
Note PC	SQ20	-	Samsung	A3LNPSQ20
AC Adapter	AD-4212A	CBNA4400148ASE383A K2468	DONGGUAN SAMSUNG ELECTRO-MECHANICS CO.,LTD	-
USB Mouse	M-UV69	LNA24917708	Logitech	Doc
PS/2 Mouse	M-S48a	LZA00152713	Logitech	Doc
Headset	-	-	COSY	-

3.2 EUT operating mode

To achieve compliance applied standard specification, the following mode(s) were made during compliance testing:

Operating Mode 1	Stand-by
Operating Mode 2	USB Printing

3.3 Details of Sampling

Customer selected, single unit.

3.4 Used cable description

The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The type(s) of interconnecting cables to be used and the interface port (of the EUT) to which these were connected;

Connected cable	Length [m]	Shielded [Y/N]	Note
Power	1.8	No	For EUT
Power	1.8	No	For PC
USB	1.8	Yes	For PC
Headset	1.0	Yes	For PC
LAN(RJ45)	3.5	No	For EUT
USB	2.0	No	For PC ant EUT

3.5 EUT Description

The following features describe EUT represented by this report:

Item	Specification
Print Speed	Black and White : Up to 16 PPM in A4(17 PPM in Letter) Color : Up to 4 PPM in A4
Resolution	Up to 2400 x 600 dpi effective output
First print out time	From Ready Black and White : Less than 14 seconds Color : Less than 26 seconds From ColdBoot Black and White : Less than 45 seconds Color : Less than 57 seconds
Warm-up time	Less than 35 seconds
Power Rating	110 ~ 127 VAC, 5A, 50/60Hz
Power Consumption	Average : 350 W Power Save mode : Less than 17 W
Noise Level	Printing mode Black and white : Less than 48 dBA Color : Less than 48 dBA Standby mode : Less than 35 dBA
Consumable life	Black Toner Cartridge : Approx. 2,000 A4/Letter pages at 5% Coverage Yellow/Magenta/Cyan Toner Cartridge : Approx. 1,000 A4/Letter pages at 5% Coverage
Duty cycle	Monthly : Up to 24,200 images
Weight	13.6 kg (including consumables)
Package weight	Paper : 2 Kg, Plastic : 900 g
External dimensions (W x D x H)	390 x 344 x 265 mm(15.4 x 13.6 x 10.4 in)
Operating Environment	Temperature : 50 ~ 90 °F (10 ~ 32.5°C) Humidity : 20 ~ 80 % RH
Printer Language	SPL-C
Memory	CLP-300:Min 32MB,Max 64MB CLP-300N : 64MB Phaser6110 : 32MB (without N/W Model) and 64MB (with N/W Model)
Interface	CLP-300 : USB 2.0 CLP-300N : USB 2.0, Ethernet 10/100 Base TX Phaser6110 : USB 2.0 (without N/W Model) and USB 2.0, Ethernet 10/100 Base TX (with N/W Model)
OS compatibility	Windows 98/Me/NT/2000/XP/2003 Various Linux OS Mac OS 10.3 ~ 10.4 Windows NT 4.0 is only supported on the CLP-300N

3.6 Clock Frequencies

Kind of Clocks	Frequency[MHz]
Video Clock	15.922 MHz
CPU Clock	300 MHz
SDRAM	100 MHz
USB Device	12 MHz
Network Device	25 MHz

3.7 Operating mode condition

The system was configured for testing in typical fashion use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables. The mode of operation utilized for testing was selected to best simulate typical EUT use. The EUT is supporting the USB and LAN printing mode.

In each test mode, finally we found worst case emission that is above configuration with the worst case components(in the above table). So, the data of the maximum EUT operation, USB printing was reported.

- Test Voltage : AC 120 V, 60 Hz

3.8 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (According to CISPR 16-4 and UKAS Lab 34.)

Test type		Measurement uncertainty (C.L. 95 %, k = 2)
Conducted disturbance	Mains Port	± 2.8 dB
Radiated disturbance	Horizontal	± 5.1 dB
	Vertical	± 5.09 dB

4. Results of individual test

4.1 Conducted disturbance

Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.

The EUT measured in accordance with the methods described in standards.

Limits for conducted disturbance at mains ports of class A

Frequency range Limits MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60

Note 1: 1 μ V is regarded as 0 dB.
 Note 2: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector at the same frequency is unnecessary.
 Note 3: The lower limit shall apply at the transition frequency.

Limits for conducted disturbance at the mains ports of class B

Frequency range Limits MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Note 1: 1 μ V is regarded as 0 dB.
 Note 2: The limits shall decreases linearly with the logarithm of the frequency in the range 150 - 500 kHz.
 Note 3: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector is unnecessary.
 Note 4: The lower limit shall apply at the transition frequency.

4.1.1 Test instrumentation

Test instrumentation used in the Conducted disturbance test was as follows:

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EMC 32	R&S	Ver 5.20.2	N/A	N/A
Measuring receiver	ESCI	R&S	100368	2007-06-01	12
Artificial mains network	ENV216	R&S	100117	2007-09-03	12

4.1.2 Photograph of the test Configuration

(Front)



(Rear)



4.1.3 Test results

Operating condition	(Stand-by, USB Printing)			
Test date	2007-09-07	Test engineer		Young Hun, Cheong
Climate condition	Ambient temperature	22.0 ℃	Relative humidity	51 %
	Atmospheric pressure	100.2 kPa		
Test place	Shielded room #1			
Note	* QP : Quasi-peak, AV: Average * Level (QP or AV) = Meter Reading(QP or AV) + Corr.(LISN Insertion loss + Cable loss) * Margin = Limit - Level			

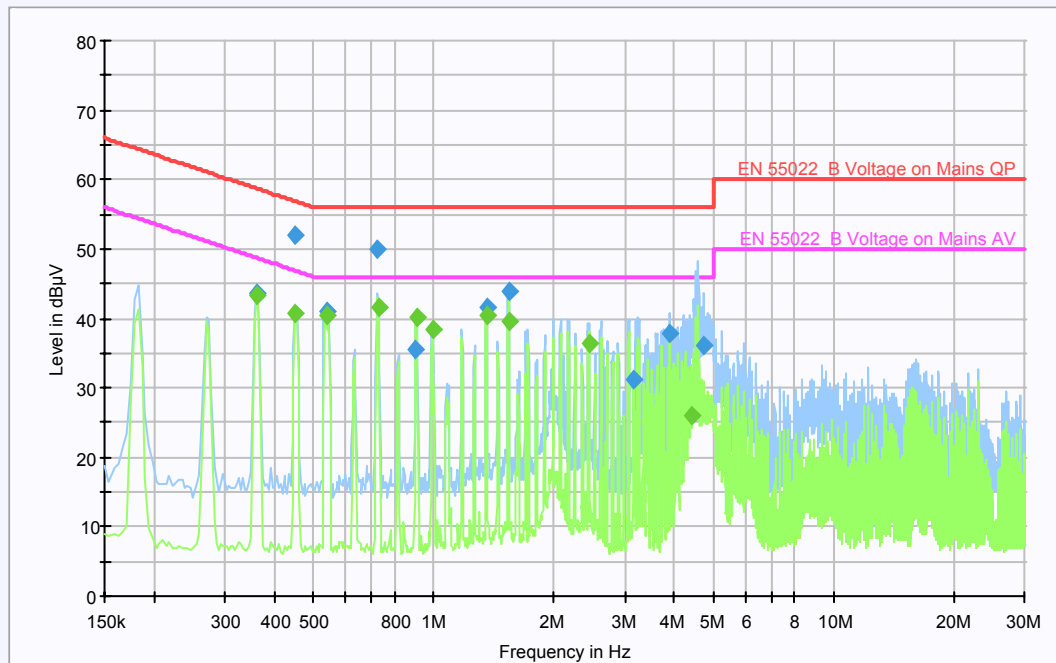
[Stand-by]

Scan Setup: EN55022_B_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN
Level Unit: dBμV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	15s	ESCI 3

EN55022_B with ENV 2-Line-LISN



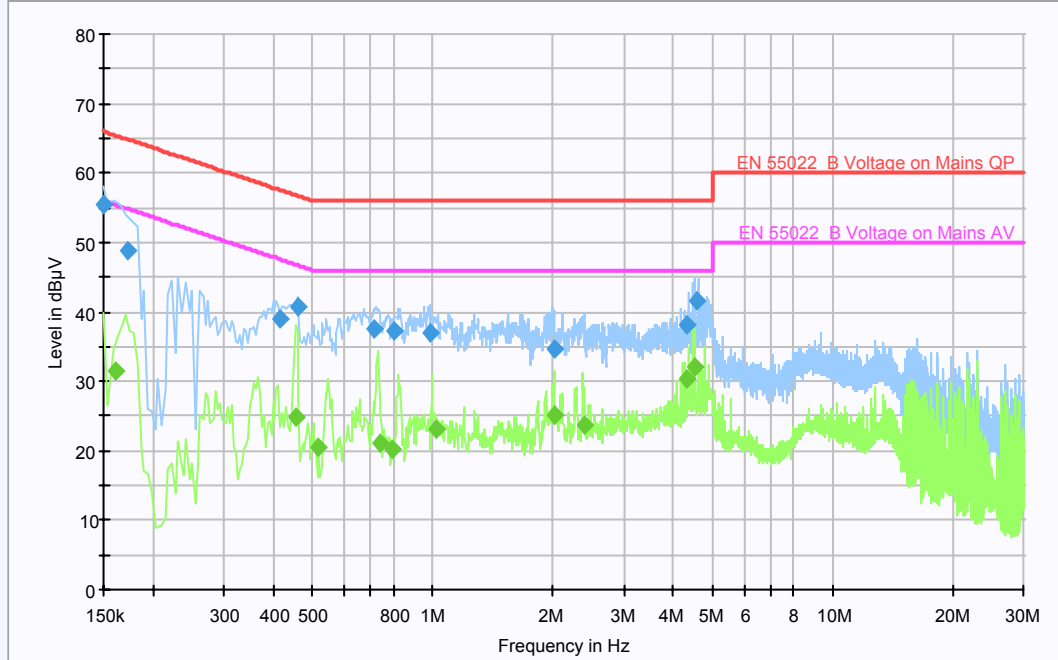
Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.359 900	43.5	L1	9.6	15.2	58.7
0.451 300	52.0	L1	9.6	4.9	56.9
0.543 300	41.0	L1	9.6	15.0	56.0
0.721 900	50.1	L1	9.6	5.9	56.0
0.896 700	35.6	N	9.6	20.4	56.0
1.356 200	41.7	N	9.6	14.3	56.0
1.539 200	44.0	L1	9.7	12.0	56.0
3.165 600	31.2	L1	9.7	24.8	56.0
3.885 600	38.0	L1	9.8	18.0	56.0
4.730 400	36.0	N	9.8	20.0	56.0

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.359 900	43.4	L1	9.6	5.3	48.7
0.451 300	40.8	L1	9.6	6.1	46.9
0.543 300	40.6	L1	9.6	5.4	46.0
0.725 900	41.7	L1	9.6	4.3	46.0
0.904 700	40.2	L1	9.6	5.8	46.0
0.996 300	38.4	L1	9.6	7.6	46.0
1.356 200	40.3	N	9.6	5.7	46.0
1.539 200	39.7	N	9.7	6.3	46.0
2.442 000	36.3	L1	9.7	9.7	46.0
4.394 400	26.0	N	9.8	20.0	46.0

[USB Printing]



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150 000	55.4	L1	9.6	10.6	66.0
0.172 900	48.8	N	9.6	16.0	64.8
0.413 700	38.9	L1	9.6	18.7	57.6
0.459 100	40.7	N	9.6	16.0	56.7
0.714 100	37.5	N	9.6	18.5	56.0
0.796 700	37.4	N	9.6	18.6	56.0
0.988 500	37.0	L1	9.6	19.0	56.0
2.012 400	34.6	L1	9.7	21.4	56.0
4.336 400	38.1	L1	9.8	17.9	56.0
4.594 000	41.7	N	9.8	14.3	56.0

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.161 500	31.4	N	9.6	24.0	55.4
0.455 300	24.7	N	9.6	22.1	46.8
0.518 700	20.4	N	9.6	25.6	46.0
0.737 500	21.0	N	9.6	25.0	46.0
0.793 100	20.2	N	9.6	25.8	46.0
1.014 000	23.0	N	9.6	23.0	46.0
2.011 400	25.0	L1	9.7	21.0	46.0
2.381 400	23.6	L1	9.7	22.4	46.0
4.333 200	30.3	L1	9.8	15.7	46.0
4.528 600	32.1	L1	9.8	13.9	46.0

4.2 Radiated disturbance

Of those disturbances above ($L - 20\text{dB}$), where L is the limit level in logarithmic units, record at least the disturbance levels and the frequencies of the six highest disturbances.

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin. All measurements were taken utilizing quasi-peak detection unless stated otherwise.

Measurements were performed at an antenna to EUT distance of 10 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

Limits for radiated disturbance of ITE at a measuring distance of 10 m

Frequency range Limits MHz	Quasi-peak Limits dB dB($\mu\text{V/m}$)	
	Class A	Class B
30 to 230	40	30
230 to 1000	47	37
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: 1 $\mu\text{V/m}$ is regarded as 0 dB.		

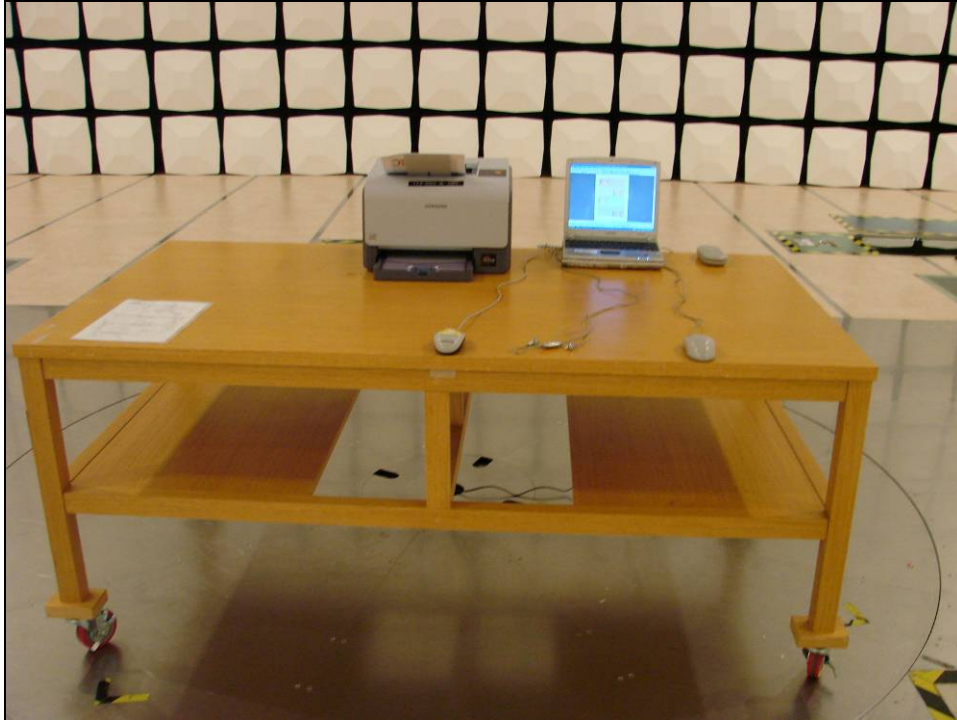
4.2.1 Test instrumentation

Test instrumentation used in the Radiated disturbance was as follows:

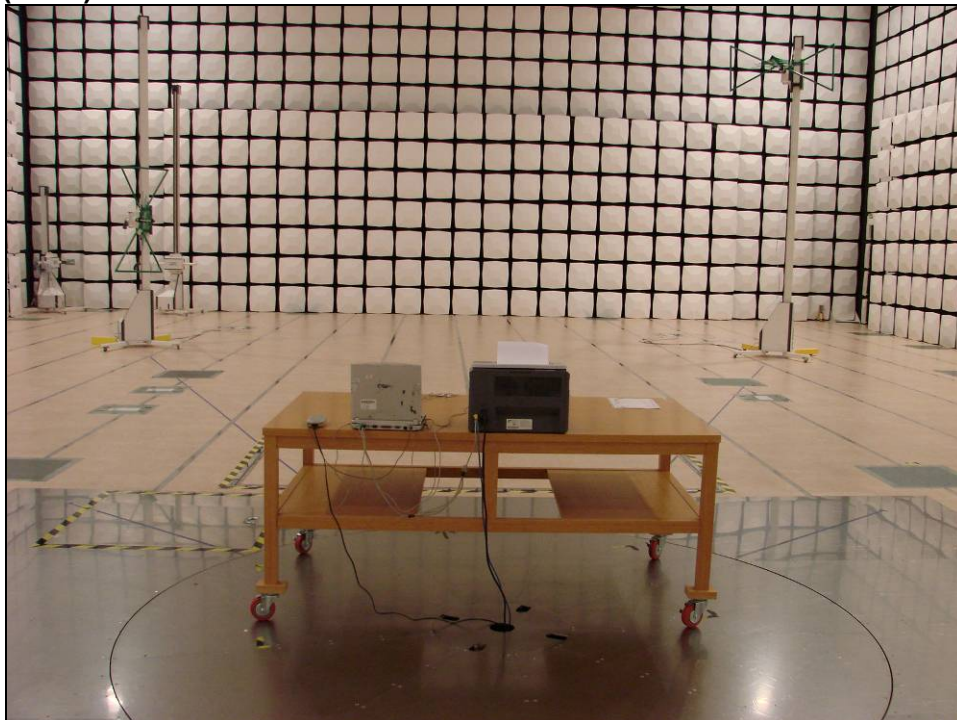
Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Bi-con Antenna	CBL6112D	SCHAFFNER	22602	2006-06-26	24
Bi-con Antenna	CBL6112D	SCHAFFNER	22601	2007-04-02	24
EMI Receiver	ESIB-26	R&S	100289	2007-03-22	12
EMI Receiver	ESIB-26	R&S	100287	2007-04-10	12
AMPLIFIER	310N	SONOMA	186467	2007-03-17	12
AMPLIFIER	310N	SONOMA	251673	2007-03-17	12
Ant Mast	MA4000	INN CO	-	N/A	N/A
Ant Mast	MA4000	INN CO	-	N/A	N/A
Mast Controller	CO2000	INN CO	-	N/A	N/A
Test software	EP5/RE	TOYO	VER 3.1.20	N/A	N/A
RF Selector	NS4900	TOYO	-	N/A	N/A
HORN ANTENNA	BBHA9120B	SCHWARZBECK	335	2007-01-08	24

4.2.2 Photograph of the test Configuration

(Front)



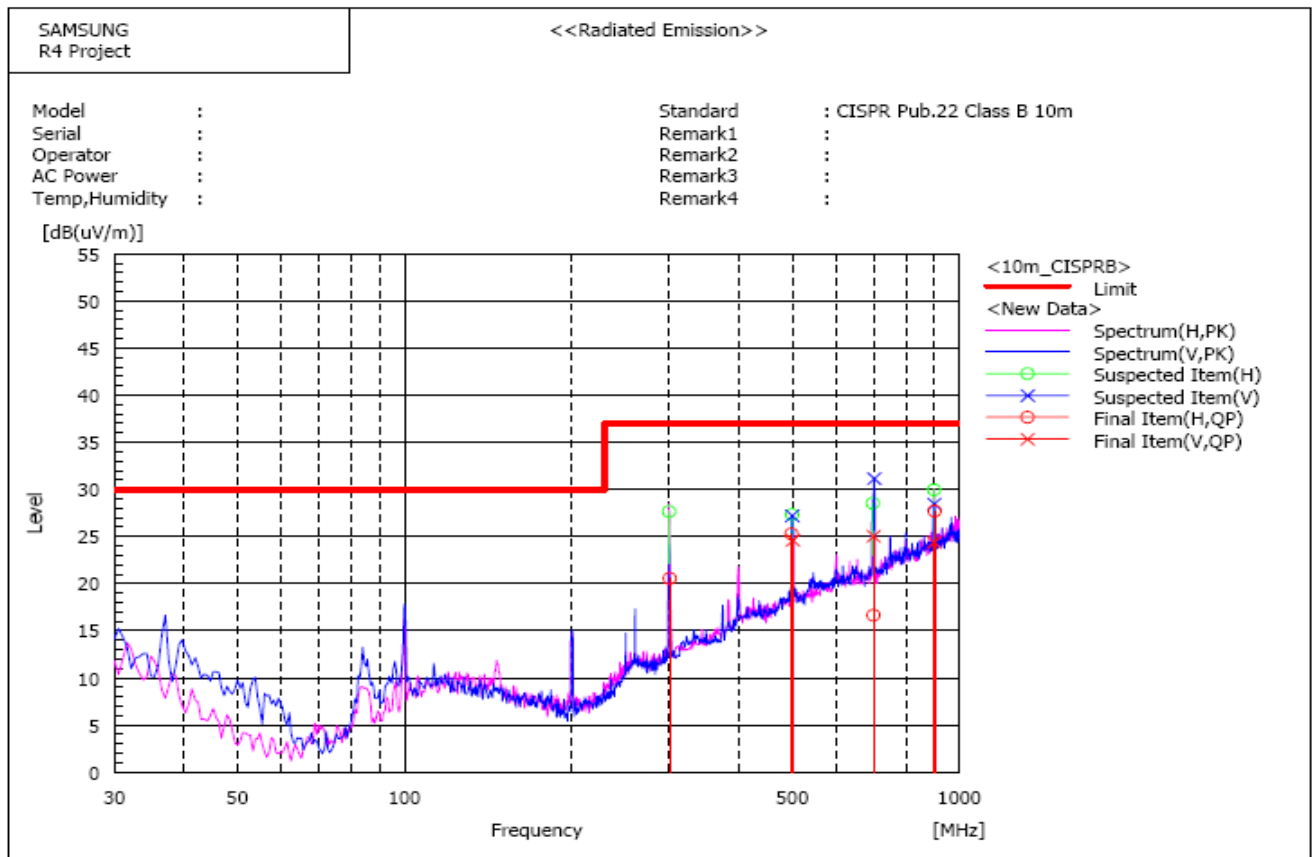
(Rear)



4.2.3 Test results (30MHz ~ 1GHz)

Operating condition	(Stand-by, USB Printing)			
Test date	2007-09-05	Test engineer		Young Hun, Cheong
Climate condition	Ambient temperature	23.1 °C	Relative humidity	50 %
	Atmospheric pressure	101.5 kPa		
Test place	10m Semi-Anechoic Chamber #1			
Note	* Receiving antenna mode : Horizontal, Vertical * Test distance : 10 m (RF Semi Anechoic Chamber) * Result = Reading + c.f (Antenna factor + Cable loss- Amp Gain) * Margin = Limit – Result			

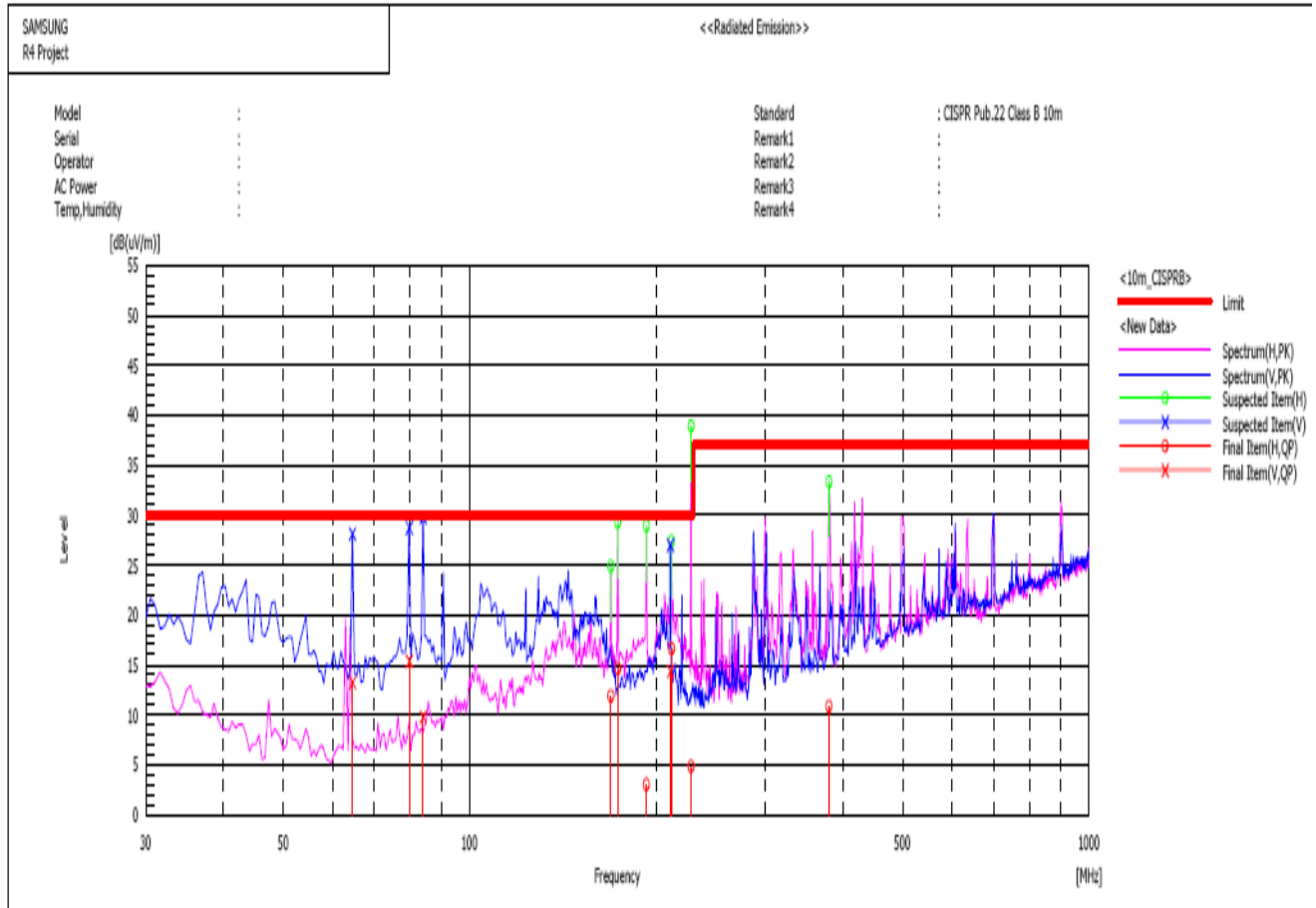
[Stand-by Mode]



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	300.214	H	34.9	-14.3	20.6	37.0	16.4	300.0	0.3	1
2	498.350	H	34.2	-8.9	25.3	37.0	11.7	200.0	0.3	1
3	500.314	V	33.4	-8.8	24.6	37.0	12.4	100.0	0.3	2
4	699.779	H	23.4	-6.7	16.7	37.0	20.3	300.0	0.3	1
5	700.031	V	31.3	-6.2	25.1	37.0	11.9	200.0	0.3	2
6	900.688	V	27.2	-2.8	24.4	37.0	12.6	200.0	0.3	2
7	901.109	H	30.8	-3.1	27.7	37.0	9.3	100.0	312.9	1

[USB Mode]

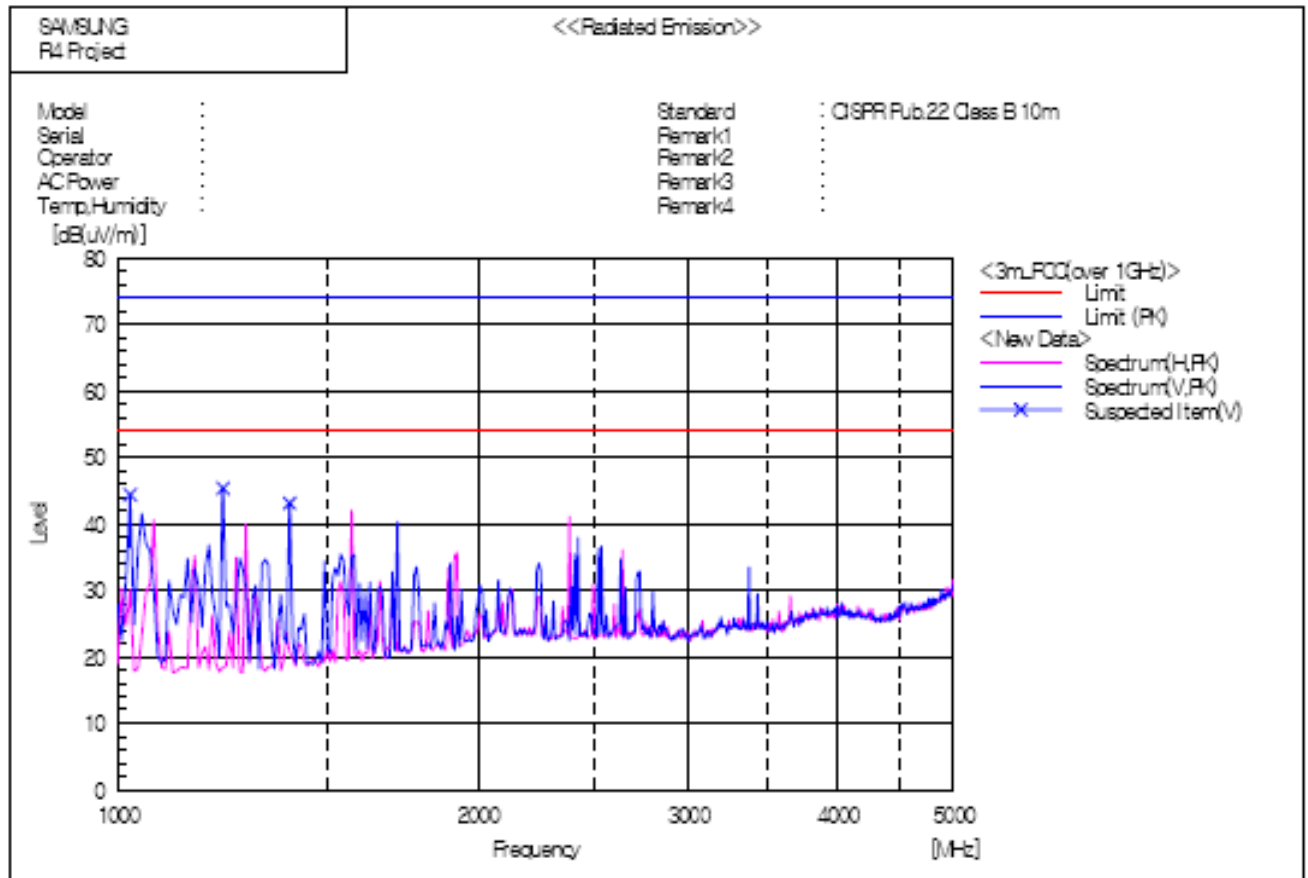


Final Result

No.	Frequency (P)	Reading	c.f	Result	Limit	Margin	Height	Angle	System	Remark
	[MHz]	QP [dB(uV)]	[dB(1/m)]	QP [dB(uV/m)]	[dB(uV/m)]	QP [dB]	[cm]	[deg]		
1	169,058	H 31,3	-19,4	11,9	30,0	18,1	318,0	157,3	1	
2	64,629	V 38,2	-25,0	13,2	30,0	16,8	262,0	359,3	2	
3	173,387	H 34,4	-19,8	14,6	30,0	15,4	379,0	14,0	1	
4	79,780	V 38,6	-23,2	15,4	30,0	14,6	117,0	170,0	2	
5	192,866	H 23,0	-20,0	3,0	30,0	27,0	332,0	50,5	1	
6	84,108	V 31,9	-22,1	9,8	30,0	20,2	193,0	38,3	2	
7	211,804	H 36,6	-20,0	16,6	30,0	13,4	300,0	169,8	1	
8	210,721	V 34,0	-19,6	14,4	30,0	15,6	111,0	47,6	2	
9	227,495	H 23,7	-18,9	4,8	30,0	25,2	267,0	129,5	1	
10	379,960	H 22,8	-11,9	10,9	37,0	26,1	202,0	297,4	1	

4.2.4 Test results (1GHz ~ 5GHz)

Operating condition	USB Printing			
Test date	2007-09-07	Test engineer		Young Hun, Cheong
Climate condition	Ambient temperature	23.1 °C	Relative humidity	50 %
	Atmospheric pressure	101.5 kPa		
Test place	10m Semi-Anechoic Chamber #1			
Note	* Receiving antenna mode : Horizontal, Vertical * Test distance : 3 m (Semi Anechoic Chamber) * Result = Reading + c.f (Antenna factor + Cable loss- Amp Gain) * Margin = Limit – Reading			



Spectrum Selection

No.	Frequency [MHz]	(P)	Reading [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1024.048	V	58.8	-12.4	44.4	54.0	9.6	100.0	74.1
2	1224.449	V	56.9	-11.5	45.4	54.0	8.6	200.0	357.8
3	1392.788	V	53.8	-10.7	43.1	54.0	10.9	100.0	149.5

Appendix – EUT photography

Front View



Rear View



Label location



Label

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place:M264	Model:	CLP-300N	FCC ID: A3LGH30CPN
	Volts:	AC 110-127V	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe B est Conforme à la norme NMB-003 du Canada. This product complies with 21 CFR Chapter 1, subchapter J.
	Hertz:	50/60Hz	
	Amps:	5A	
	Manufactured:		
		51Y7 E149091 I.T.E.	
			MADE IN CHINA REV.00

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place:M264	Model:	CLP-300	FCC ID: A3LGH30CPN
	Volts:	AC 110-127V	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe B est Conforme à la norme NMB-003 du Canada. This product complies with 21 CFR Chapter 1, subchapter J.
	Hertz:	50/60Hz	
	Amps:	5A	
	Manufactured:		
		51Y7 E149091 I.T.E.	
			MADE IN CHINA REV.00

 Xerox Corporation Wilsonville, OR 97070 Made In China Manufactured: DECEMBER 2005 This product complies with FDA radiation performance standard, 21 CFR sub-chapter J. Part 1010 + 1040, PLACE:M264 S/N:	Phaser™ 6110 Volts : 110-127V~ Hertz: 50/60Hz Amps: 5A	FCC ID: A3LGH30CPN
		This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe "B" est conforme à la norme NMB-003 du Canada.
		
		
		
		REV.01 (A)

(Samsung Electronics (Shandong) Digital Printing Co., Ltd.)

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place:M259	Model:	CLP-300N	FCC ID: A3LGH30CPN
	Volts:	AC 110-127V	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe B est Conforme à la norme NMB-003 du Canada. This product complies with 21 CFR Chapter 1, subchapter J.
	Hertz:	50/60Hz	
	Amps:	5A	
	Manufactured:		
 	51Y7 E149091 I.T.E.		
			MADE IN KOREA REV.00

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place:M259	Model:	CLP-300	FCC ID: A3LGH30CPN
	Volts:	AC 110-127V	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe B est Conforme à la norme NMB-003 du Canada. This product complies with 21 CFR Chapter 1, subchapter J.
	Hertz:	50/60Hz	
	Amps:	5A	
	Manufactured:		
 	51Y7 E149091 I.T.E.		
			MADE IN KOREA REV.00

 Xerox Corporation Wilsonville, OR 97070 Made in Korea Manufactured: DECEMBER 2005	Phaser™ 6110	FCC ID: A3LGH30CPN
	Volts : 110-127V~	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe "B" est conforme à la norme NMB-003 du Canada.
	Hertz: 50/60Hz	
	Amps: 5A	
This product complies with FDA radiation performance standard, 21 CFR sub-chapter J, Part 1010 + 1040, PLACE:M259 S/N:	  	LISTED 51Y7 E149091 I.T.E. REV.00(2)

(Samsung Electronics Co., Ltd.)