

EMC TEST REPORT

Samsung Electronics Co., Ltd.

416 Maetan 3-Dong, Yeongtong-Gu,
Suwon-Si, Gyeonggi-Do, 443-742 Korea
(Tel: 82 31 277 7752, Fax: 82 31 277 7753)

Project No. : LBE071065
Page (1)/(28)

**1. 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. 03. 23

2. Purpose for the report : Approval for EMC

3. Kind of product : Printer (Model name :ML-3471ND)

4. Date of test : 2007. 03. 29 ~ 2007. 04. 02

5. Applied standard : FCC Part 15, Subpart B

6. 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

Name : Sang Kyu, seo

Reviewed by

Name : 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.

2007. 04. 13

Samsung Electronics Co., Ltd.
Chief of CS Management Center

TEST RESULT

Test Report No. : LBE071065

Applicant / Address : Samsung Electronics Co., Ltd.
416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do
443-742 Korea

Manufacture / Address : 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 H-Tech. IDZ, Shandong Province, P.R.China

EUT : 1. Product name : Printer
2. Model name : ML-3471ND
3. Brand name : SAMSUNG
4. Variant model : ML-3470D
5. FCC ID : A3LML3471ND

Test Method : **ANSI C 63.4:2003**

Test Result : **PASS**
The equipment under test has found to be compliant with the applied standards

Test Lab. : CS Management Center, Samsung Electronics Co., Ltd.



Tested by : Sang Kyu, Seo

Reviewed by : No Cheon Park

Date of Issue : 2007. 04. 13

Table of contents

1. General information

- 1.1 Basic information related product
- 1.2 Detail information related product
- 1.3 Operating mode and condition
- 1.4 Equipment modifications
- 1.5 Test procedure
- 1.6 Test configuration
- 1.7 Applied standard
- 1.8 Test facility

2. Summary of test results

3. Description of individual tests

- 3.1 Conducted emission
- 3.2 Radiated emission

4. Appendix

- 4.1 Test photography
- 4.2 EUT photography

1. General information

1.1 Basic information related product

Applicant	Samsung Electronics Co., Ltd.
Model name	ML-3471ND
Applicant address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 Korea
Contact person	Sangsu ROH
Kind of product	Printer
Valiant model	ML-3470D
FCC ID	A3LML3471ND
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 H-Tech. IDZ, Shandong Province, P.R.China
Rated power	AC 120 V, 60 Hz
New / Alternative / Permissive change information	New

1.2 Detail Information related product

1.2.1 Specification

Item	Specification and Description
Print Speed	Black and White : Up to 33 PPM in A4(35 PPM in Letter)
Resolution	Printer: Up to 1200 x 1200 dpi(effective output)
First print out time	From Standby Mode : Less than 8.5 seconds From ColdBoot : Less than 25 seconds
Warm-up time	Less than 15 seconds
Power Rating	110 ~ 127 VAC, 6.5A, 50/60 Hz
Power Consumption	Printing : 600 W Power Save mode : Less than 10 W
Noise Level	Printing mode: Less than 54 dBA Standby mode : Less than 39 dBA Warm-up: Less than 50dBA
Consumable life	Black Toner Cartridge : Approx. 4,000 A4/Letter pages at 5% Coverage
Duty cycle (Max. Monthly Volume)	Print: 20,000 pages
Weight	12.7 kg (including consumables)
Package weight	3.1 kg
External dimensions (W x D x H)	400 x 435 x 284 mm(15.7 x 17.1 x 11.2 in)
Operating Environment	Temperature : 10 ~ 32 (50 ~ 90) Humidity : 20 ~ 80 % RH
Printer Language	PCL6, PostScript3, PCL5e
Memory	64MB (MAX320MB)
Interface	USB 2.0, IEEE1284, Ethernet 10/100 Base TX, WLAN
OS compatibility	- Windows 98/Me/NT4.0/2000/XP(32/64bit)/2003 Server(32/64bit) - Mac OS 8.6~9.2/10.1~10.4 - Various Linux OS including Red Hat 8~9, Fedora Core 1~4, - Mandrake 9.2~10.1, and SuSE 8.2~9.2 - NetWare 4.x, 5.x, 6.x - Unix HP-UX, Solaris, SunOS, SCO UNIX

Operating Frequency

Main Source Clock : 12 MHz, Video Clock : 12 MHz, CPU Clock : 400 MHz
SDRAM Clock : 100 MHz, USB Device Clock : 12 MHz, Network Device Clock : 25 MHz
USB Clock = 6MHz, SD Memory Clock = 100MHz, MAC Clock = 25MHz

1.3 Operating mode and condition

The system was configured for testing in typical fashion use. Cable were attached to each of the available I/O port. Where applicable, peripherals were attached to the I/O cables.

This EUT is supporting the USB, Parallel and Network(LAN) printing.

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, Parallel printing(duplex mode) was reported.

- **Operating Mode**
- **Parallel Printing Mode (worst emission)**
- Network Printing Mode
- USB Printing Mode
- Standby Mode

- Test Voltage : 120 V, 60 Hz

1.4 Equipment modifications

No equipment modifications were required.

1.5 Test procedure

1.5.1 Conducted emission

EUT was placed on a platform nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting ground plane.

The rear of EUT, including peripherals was aligned and flush with rear of tabletop.

All other surfaces of tabletop was at least 80 cm from any other grounded conducting surface.

I/O cables and AC cables that were connected to the peripherals were bundled in center.

They were folded back and forth forming a bindle 30 cm to 40 cm long and were handed at a 40 cm height to the ground plane.

Each EUT current-carrying power lead, except the ground(safety) lead, were individually connected through a LISN to the input power source.

All unused 50 ohm connectors of the LISN were resistively terminated in 50 ohm when not connected to the measuring equipment.

Frequency Band [MHz]	Instrument	Detector	Resolution Bandwidth	Video Bandwidth
0.15 to 30	EMI Receiver	Quasi-Peak	9 kHz	-
		Average	9 kHz	-

1.5.2 Radiated emission

EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of EUT, including peripherals was aligned and flush with rear of tabletop.

The I/O cables that were connected to the peripherals were bundle in center.

They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged 40 cm height to the ground plane.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization.

The measurement antenna was varied in height above the conducting ground plane and the turn table azimuth was varied to obtain the maximum signal strength

The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found.

The spectrum was scanned from 30 to 1 000 MHz using biconiLog antenna.

Also, the EMI Receiver was scanned from 1 000 to 2 000 MHz using linearly polarization

Double ridge horn antennas were used. The explanation of measuring instrument setup when

Respective function is used in any frequency band is as following;

Frequency Band [MHz]	Instrument	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1 000	EMI Receiver	Quasi-Peak	120 kHz	-
Above 1 000	EMI Receiver	Peak	1 MHz	1 MHz

1.6 Test configuration

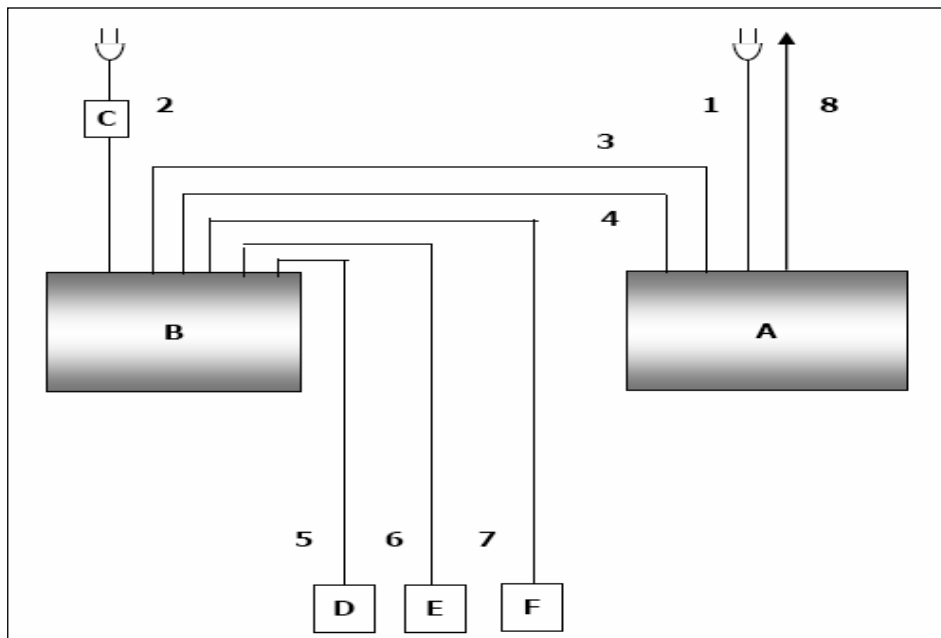
1.6.1 Used EUT and peripherals

Seq	Device	Model Name	Serial #	Maker	FCC ID
A	Printer	ML-3471ND	-	Samsung	-
B	Notebook PC	SQ20	L30991CX300026B	Samsung	DoC
C	AC Adaptor	AD-4212A	CNBA4400148ASE383AK2463	Dong Guan SEM	-
D	USB Mouse	MS201U	69G1492	Monterey International Corp	DoC
E	SP/2 Mouse	Scroll Mouse P801	02064714	Kye Systems	FCC ID FSUGMZFT
F	Serial Mouse	M-CU15	L1845000091	Logitech	FCC ID DZLMCU15

1.6.2 Used cable description

No	Connect Cable	Length [m]	Shielded [Y/N]	Remark
1	Power	1.8	No	For EUT
2	Power	1.8	No	For PC
3	Parallel	1.8	Yes	From eut to pc
4	USB	1.8	Yes	From eut to pc
5	USB	1.8	Yes	From pc to mouse
6	PS/2	1.8	Yes	From pc to mouse
7	Serial	1.8	Yes	From pc to mouse
8	RJ45C[LAN]	3.0	No	From pc to hub

1.6.3 Block diagram



1.7 Applied Standards

Test standard	Test method
FCC Part 15 Subpart B	ANSI C63.4:2003

1.8 Test Facility

1.8.1 General information

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22, 16-1, 16-2.

This EMC Testing Lab. is accredited by Korea Laboratory Accreditation Scheme(KOLAS) which signed the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement

(MRA) for the above test item(s) and test method(s).

This Lab. is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:1998.

1.8.2 Accreditation and listing



1.8.3 Measurement uncertainty

(According to CISPR 16-4 and Lab. 34)

Test item	Measurement uncertainty
Conducted emission	± 2.8 dB
Radiated emission Horizontal	± 5.1 dB
Vertical	± 5.09 dB

2. Summary of test results

Result : PASS

The equipment under test(EUT) has been found to comply with the applied standards.

Section of the product standard		Applied standard	Test result
3.1	Conducted Emission	ANSI C63.4 : 2003	Complied
3.2	Radiated Emission	ANSI C63.4 : 2003	Complied

3. Description of individual tests

3.1 Conducted emission

3.1.1 Test information

Test engineer	Sang Kyu, Seo
Test date	April 2, 2007
Climate condition	Ambient temperature : 23.9 , Relative humidity : 35 % Atmospheric pressure : 101.1 kPa
Test place	Shielded room # 1

3.1.2 Test equipment

Equipment	Model name	Manufacturer	Serial no.	Calibration	
				Date	Interval (Month)
EMI TEST RECEIVER	ESCI	R&S	100369	2006-05-01	12
LISN	ENV216	R&S	100116	2006-09-01	12
LISN	ESH3-Z5	R&S	100261	2006-07-21	12
Test Software	EMC 32	R&S	Ver 4.40.0	N/A	N/A

EUT Test Setup

The EUT was set up as per normal use on a wooden table, 0.4 m from a vertical ground reference plane, At least 0.8 m from other conduction surfaces and 0.8 m from the LISN.

See photo.

Test Result

Measurement Results

Pass
The measured emissions of the EUT have found to be below the specified limits.

3.1.3 Test data and graph

The initial step in collecting conducted data was to perform a peak and average scan over the measurement range using a receiver.

3.1.4.1 Test graph

Test Information

Test Description: ML-3471ND
Operating Conditions:
Operator Name:
Comment: Parallel Printing

Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1
Frequency Range: 150kHz - 30MHz

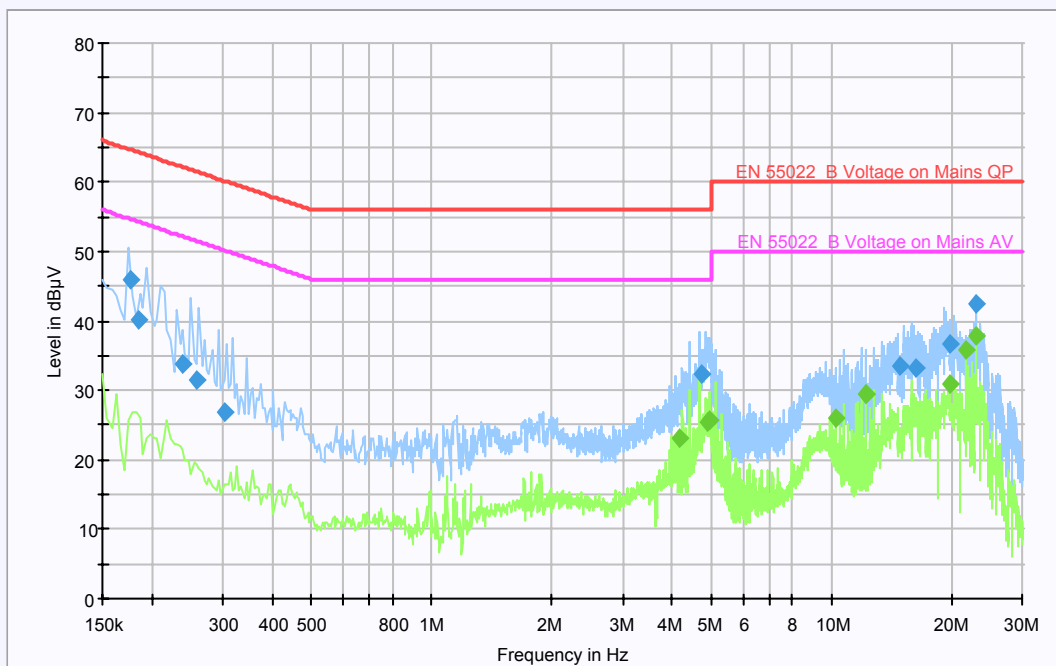
Receiver: ESCI 3 [ESCI 3]
@ GPIB0 (ADR 20), SN 100369/003, FW 3.82
Signal Path: Receiver-2-Line-LISN ENV216
FW 1.0
Correction Table: Receiver-2-LISN ENV216
LISN: ENV216
Correction Table (Line 0): ENV216_100116_N
Correction Table (Line 1): ENV216_100116_L

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

Hardware Setup: Voltage with ENV 2-Line-LISN
Level Unit: dB μ V

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)
0.177300	46.1	N	9.6	18.5	64.6
0.184300	40.2	N	9.6	24.1	64.3
0.237500	33.9	N	9.6	28.3	62.2
0.256900	31.5	N	9.6	30.0	61.5
0.302100	26.9	N	9.6	33.3	60.2
4.754800	32.5	L1	9.8	23.5	56.0
14.905500	33.6	L1	10.0	26.4	60.0
16.355000	33.2	L1	10.0	26.8	60.0
19.711000	36.6	L1	10.1	23.4	60.0
23.127500	42.5	N	10.2	17.5	60.0

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
4.176000	23.1	L1	9.7	22.9	46.0
4.881600	25.5	L1	9.8	20.5	46.0
4.943000	25.8	L1	9.8	20.2	46.0
10.244000	26.0	N	9.9	24.0	50.0
12.197500	29.5	N	9.9	20.5	50.0
12.198500	29.4	N	9.9	20.6	50.0
19.708000	31.0	N	10.1	19.0	50.0
21.665000	35.8	N	10.1	14.2	50.0
23.127500	37.8	N	10.2	12.2	50.0

* QP : Quasi-peak, AV: Average

* Level (QuasiPeak or Average) = Meter Reading(QP or AV) + Corr. (LISN Insertion loss + Cable loss)

* Margin = Limit – Result

Test Information

Test Information

Test Description: ML-3471ND
Operating Conditions:
Operator Name:
Comment: Standby

Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3 [ESCI 3]
@ GPIB0 (ADR 20), SN 100369/003, FW 3.82

Signal Path: Receiver-2-Line-LISN ENV216
FW 1.0

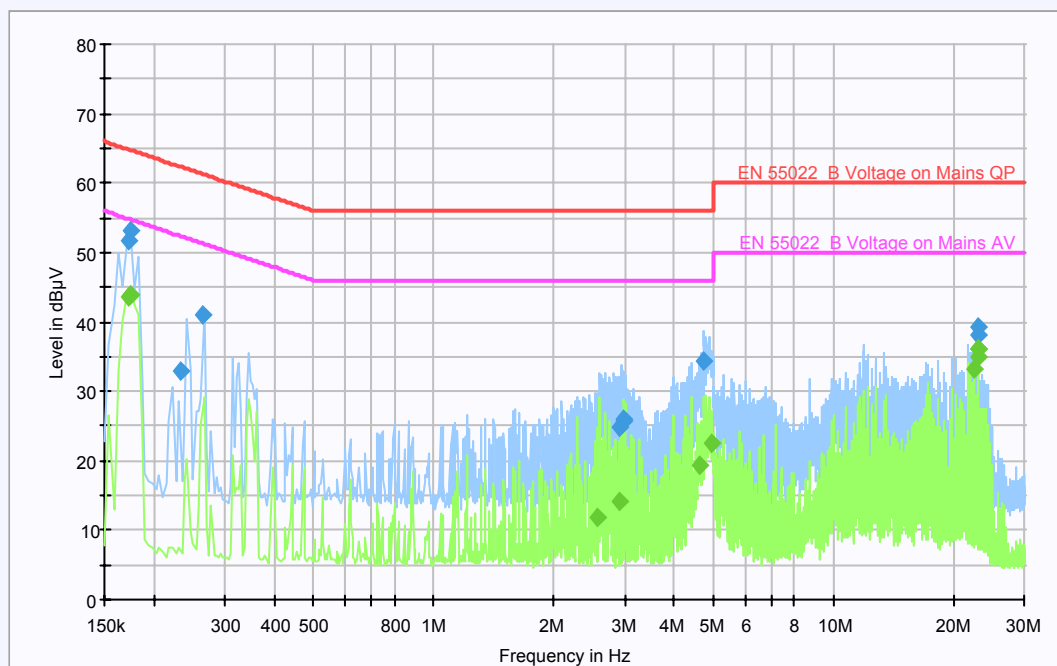
LISN: Correction Table: Receiver-2-LISN ENV216
ENV216
Correction Table (Line 0): ENV216_100116_N
Correction Table (Line 1): ENV216_100116_L

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

Hardware Setup: Voltage with ENV 2-Line-LISN
Level Unit: dB μ V

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)
0.172900	51.7	N	9.6	13.1	64.8
0.173300	53.1	N	9.6	11.7	64.8
0.233900	33.0	L1	10.0	29.3	62.3
0.264700	40.9	N	9.6	20.4	61.3
2.920000	24.9	N	9.7	31.2	56.0
2.966200	25.6	L1	9.7	30.4	56.0
2.985000	26.0	L1	9.7	30.0	56.0
4.754600	34.4	L1	9.8	21.6	56.0
23.127500	39.2	N	10.2	20.8	60.0
23.130500	38.3	N	10.2	21.7	60.0

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.172900	43.6	N	9.6	11.2	54.8
0.173300	43.9	N	9.6	10.9	54.8
2.557600	11.8	N	9.7	34.2	46.0
2.902200	14.2	N	9.7	31.8	46.0
4.618800	19.3	L1	9.7	26.7	46.0
4.939400	22.4	L1	9.8	23.6	46.0
22.457000	33.2	N	10.1	16.8	50.0
23.127500	36.0	N	10.2	14.0	50.0
23.129000	36.2	N	10.2	13.8	50.0
23.130500	35.1	N	10.2	14.9	50.0

3.2 Radiated emission

3.2.1 Test information

Test engineer	Sang Kyu, Seo
Test date	March 29, 2007
Climate condition	Ambient temperature : 24.6 , Relative humidity : 37 % Atmospheric pressure 100.7 kPa
Test place	10 m Semi-anechoic Chamber

3.2.2 Test equipment

Equipment	Model name	Manufacturer	Serial no.	Calibration	
				Date	Interval (Month)
Bi-con Antenna	CBL6112D	SCHAFFNER	22601	2006-06-26	12
EMI Receiver	ESI-26	R&S	832692/002	2007-02-08	12
AMPLIFIER	310N	SONOMA	186467	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
RF Selector	NS4900	TOYO	-	N/A	N/A

EUT Test Setup

EUT set up in semi-anechoic chamber. EUT positioned at 10 m from antenna in center of table.

All ports terminated into characteristic loads.

Test Result

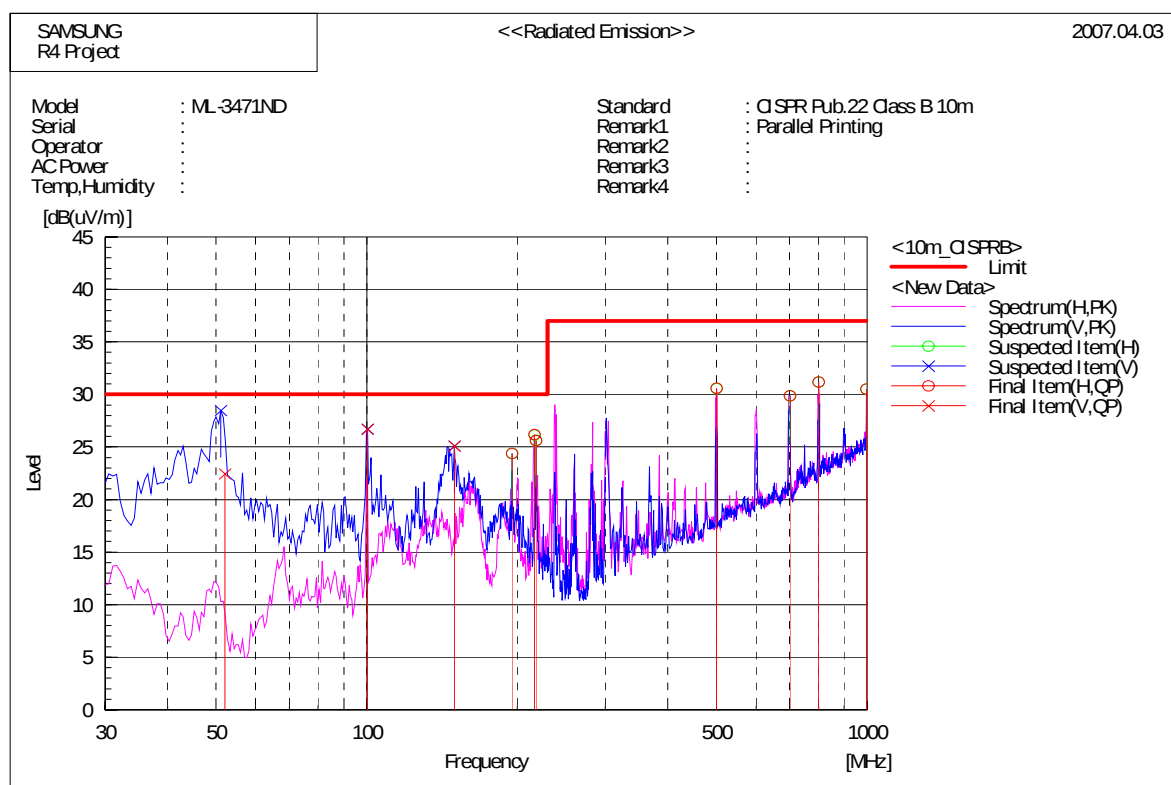
Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.
----------------------------	---

3.2.3 Test data and graph

The initial step in collecting radiated data was to perform a peak scan over the measurement range using a receiver. All modes of operation were investigated and the worst-case emissions were reported. All other emissions are non-significant

3.2.4 30 MHz ~ 1 000 MHz

■ Operating Mode: Parallel Printing

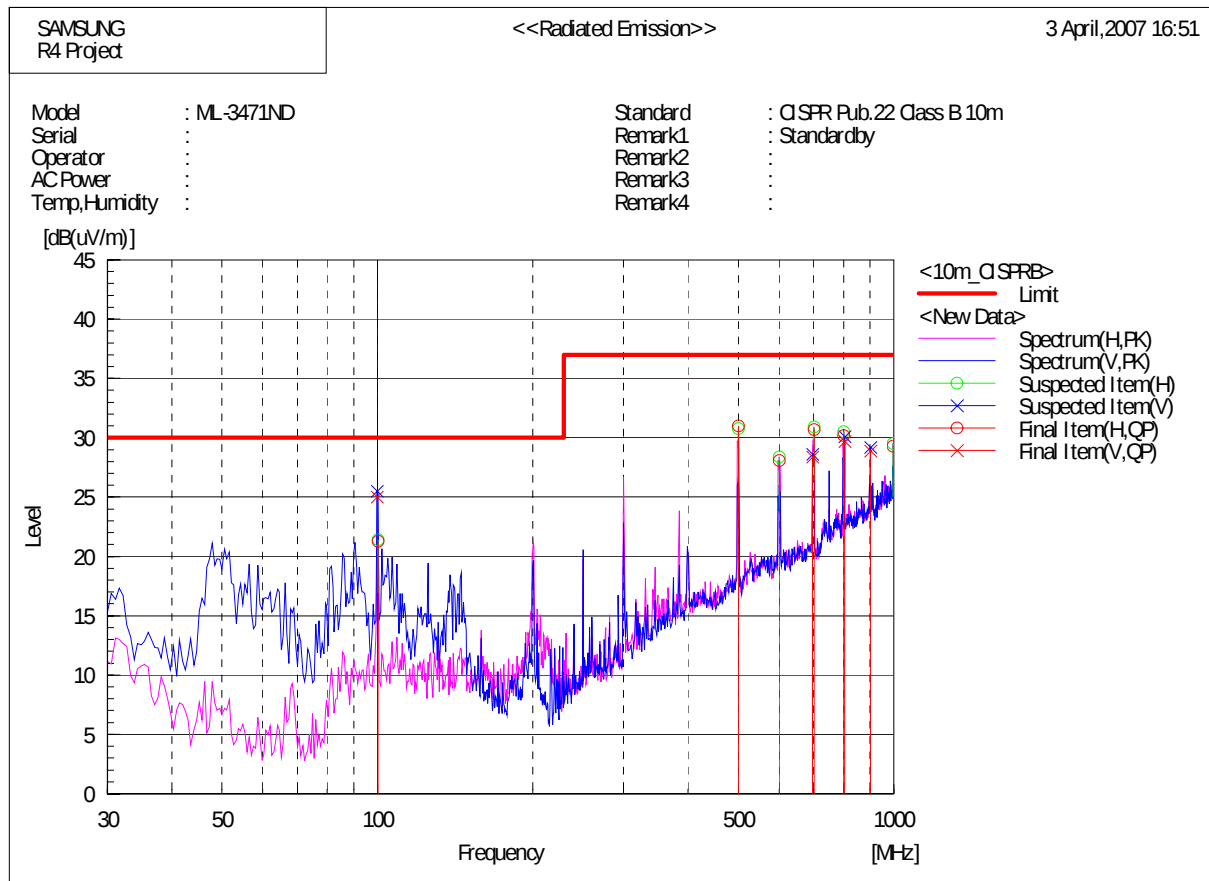


Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	52.095	V	46.0	-23.6	22.4	30.0	7.6	400.0	338.2
2	100.341	V	45.7	-19.0	26.7	30.0	3.3	100.0	350.3
3	149.579	V	44.3	-19.2	25.1	30.0	4.9	100.0	350.3
4	195.030	H	44.4	-20.0	24.4	30.0	5.6	400.0	250.1
5	216.673	H	46.2	-20.0	26.2	30.0	3.8	300.0	350.9
6	217.756	H	45.6	-20.0	25.6	30.0	4.4	400.0	94.4
7	500.601	H	39.5	-8.9	30.6	37.0	6.4	100.0	252.4
8	701.202	H	36.2	-6.3	29.9	37.0	7.1	100.0	226.5
9	800.802	H	35.7	-4.5	31.2	37.0	5.8	100.0	249.4
10	997.194	H	31.5	-1.0	30.5	37.0	6.5	400.0	226.7

- * Receiving antenna mode : Horizontal, Vertical
- * Test distance : 10m (RF Semi Anechoic Chamber)
- * Result = Reading + c.f (Antenna factor + Cable loss- Amp Gain)
- * Margin = Limit – Result

■ Operating Mode: **Standby**

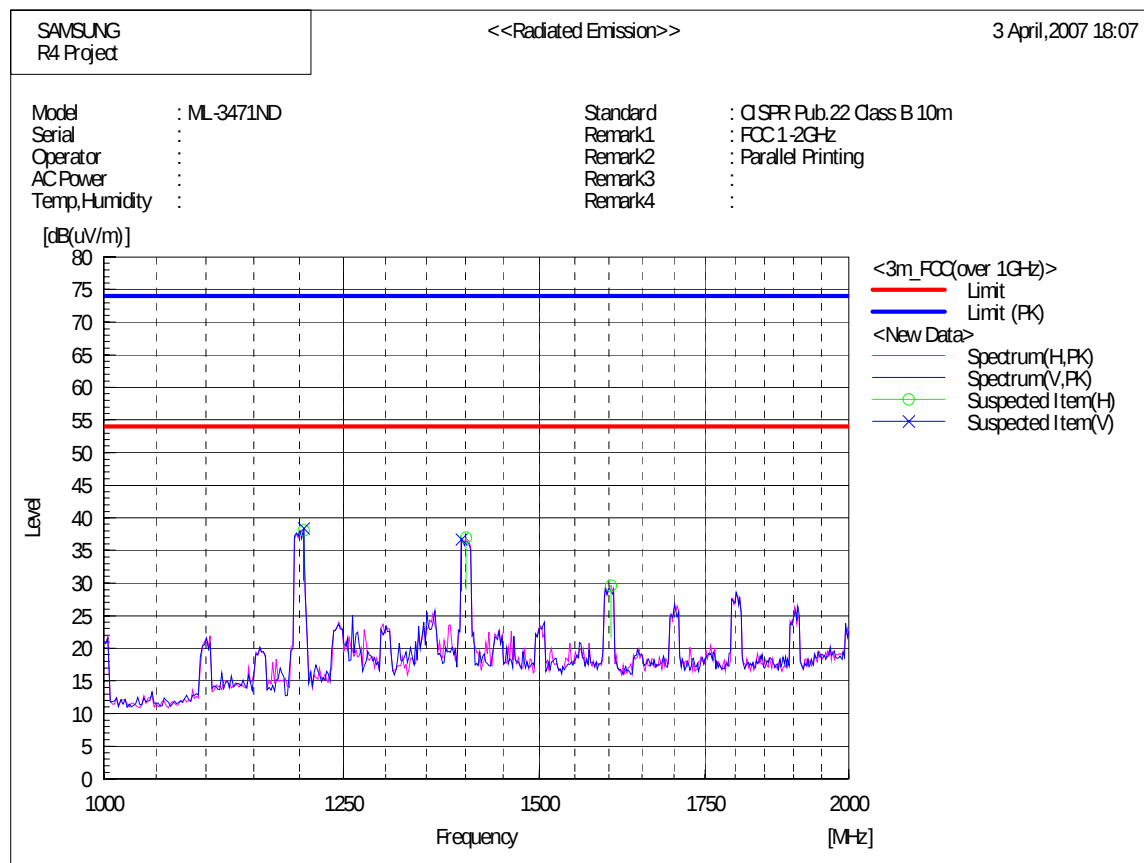


Final Result

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]
1	99.800	V	44.1	-19.1	25.0	30.0	5.0	100.0	9.3
2	100.341	H	40.3	-19.0	21.3	30.0	8.7	400.0	39.4
3	500.601	H	39.9	-8.9	31.0	37.0	6.0	100.0	237.0
4	600.200	H	35.3	-7.2	28.1	37.0	8.9	100.0	237.0
5	696.994	V	34.8	-6.4	28.4	37.0	8.6	200.0	9.6
6	701.202	H	37.0	-6.3	30.7	37.0	6.3	100.0	227.8
7	800.802	H	34.7	-4.5	30.2	37.0	6.8	100.0	220.2
8	803.607	V	34.2	-4.5	29.7	37.0	7.3	200.0	302.8
9	901.804	V	31.7	-2.8	28.9	37.0	8.1	200.0	290.7
10	997.194	H	30.3	-1.0	29.3	37.0	7.7	400.0	238.6

- * Receiving antenna mode : Horizontal, Vertical
- * Test distance : 10m (RF Semi Anechoic Chamber)
- * Result = Reading + c.f (Antenna factor + Cable loss- Amp Gain)
- * Margin = Limit – Result

3.2.5 1 GHz ~ 2 GHz



Spectrum Selection

No.	Frequency [MHz]	(P)	Reading [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1204.409	V	50.0	-11.6	38.4	54.0	15.6	100.0	289.1
2	1204.409	H	49.7	-11.6	38.1	54.0	15.9	100.0	283.1
3	1394.790	V	47.4	-10.7	36.7	54.0	17.3	100.0	266.0
4	1400.802	H	47.6	-10.7	36.9	54.0	17.1	100.0	257.8
5	1603.206	H	39.3	-9.7	29.6	54.0	24.4	100.0	16.7

- * 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

4. Appendix

4.1 Test photography



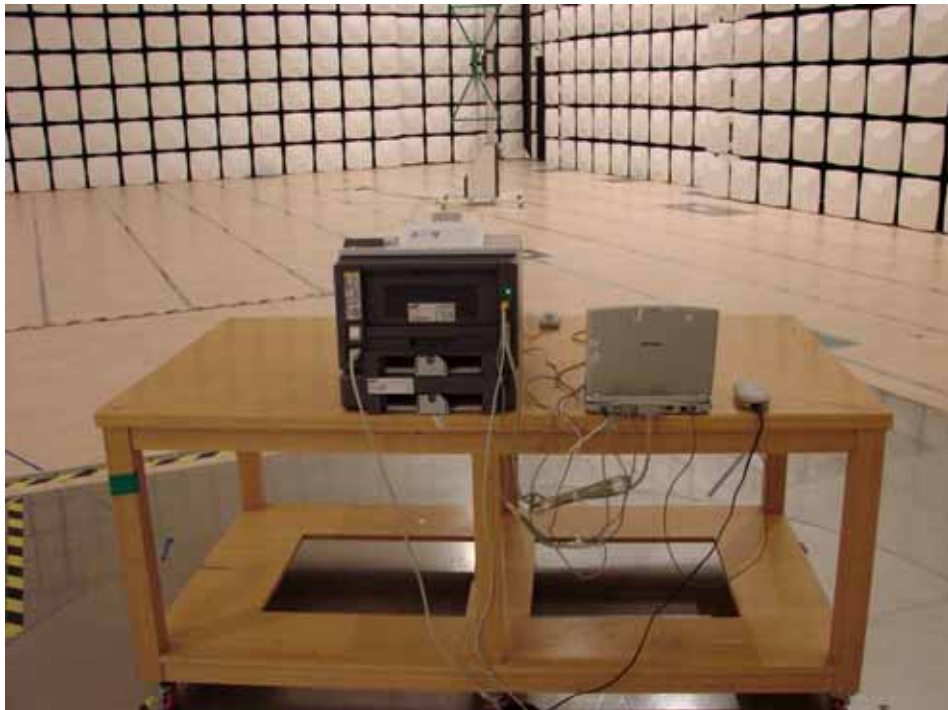
Picture 1. Conducted Emission (Front)



Picture 2. Conducted Emission (Rear)



Picture 3. Radiated emission (Front)



Picture 4. Radiated emission (Rear)

4.2 EUT photography



Picture 5. EUT (Front)



Picture 6. EUT (Rear)

4.3 Label and Label Location

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M259	Model: ML-3471ND Volts: AC 110-127V Hertz: 50/60 Hz Amps: 6.5A Manufactured:	FCC ID : A3LML3471ND (Printer) FCC ID : A3LSWL-2460C (WLAN) 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 meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Canadian Certification Number(RSS-210): 649E-SWL2460C (WLAN) 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.
S/N	 51Y7 E149091 I.T.E.	MADE IN KOREA REV.00

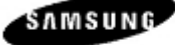
 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M259	Model: ML-3470D Volts: AC 110-127V Hertz: 50/60 Hz Amps: 6.5A Manufactured:	FCC ID : A3LML3471ND (Printer) This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. 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.
S/N	 51Y7 E149091 I.T.E.	MADE IN KOREA REV.00

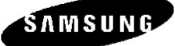
(Samsung Electronics Co., Ltd)

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M264	Model: ML-3471ND Volts: AC 110-127V Hertz: 50/60 Hz Amps: 6.5A Manufactured:	FCC ID : A3LML3471ND (Printer) FCC ID : A3LSWL-2460C (WLAN) 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 meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Canadian Certification Number(RSS-210): 649E-SWL2460C (WLAN) 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.
	 51Y7 LISTED US E149091 I.T.E.	
S/N		MADE IN CHINA REV.00

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M264	Model: ML-3470D Volts: AC 110-127V Hertz: 50/60 Hz Amps: 6.5A Manufactured:	FCC ID : A3LML3471ND (Printer) 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 meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. 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.
	 51Y7 LISTED US E149091 I.T.E.	
S/N		MADE IN CHINA REV.00

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

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M098	Model: ML-3471ND Volts: AC 110-127V Hertz: 50/60 Hz Amps: 6.5A Manufactured:	FCC ID : A3LML3471ND (Printer) FCC ID : A3LSWL-2460C (WLAN) 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 meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Canadian Certification Number(RSS-210): 649E-SWL2460C (WLAN) 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.
	 51Y7 US E149091 I.T.E.	S/N MADE IN CHINA REV.00

 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M098	Model: ML-3470D Volts: AC 110-127V Hertz: 50/60 Hz Amps: 6.5A Manufactured:	FCC ID : A3LML3471ND (Printer) 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 meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. 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.
	 51Y7 US E149091 I.T.E.	S/N MADE IN CHINA REV.00

(Weihai Shin Heung Digital Electronics Co., Ltd.)

Picture 7. Label



Picture 8. Label location