

# EMC TEST REPORT

<b>Project No.</b>	LBE10060154	<b>Issue No.</b>	1
<b>Applicant</b>	<b>Name of organization</b>	<b>Samsung Electronics Co., Ltd.</b>	
	<b>Address</b>	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742	
	<b>Date of application</b>	January 05, 2010	
<b>EUT</b>	<b>Type of device</b>	Class B digital devices and peripherals	
	<b>Equipment authorization</b>	<b>Verification</b>	
	<b>FCC ID</b>	<b>A3LML1865W</b>	
	<b>Kind of product</b>	<b>MONO LASER PRINTER</b>	
	<b>Model No.</b>	<b>ML-1865W</b>	
		<b>Variant Model No.</b>	-
<b>Manufacturer</b>	<b>Samsung Electronics Co., Ltd.</b> 259, Gongdan-Dong, Gumi-City, Gyeong-Buk, 730-030, Korea <b>Samsung Electronics (Shandong) Digital Printing Co., Ltd.</b> 264209, Samsung Road, Weihai Hi-Tech IDZ, Shandong Province, P.R. China <b>Shin Heung Digital Electronics Co., Ltd.</b> 98, Samsung Road, Weihai Hi-Tech IDZ, Shandong Province, P.R. China <b>Intops : Intops (Weihai) Electronics Co., Ltd.,</b> Keji Road-268-1 , Weihai Hi-Tech, Industries Development Zone , Shandong Province , CHINA		
<b>Applied Standards</b>	FCC Part 15, Subpart B / ANSI C63.4-2003, ICES-003 issue 4		
<b>Test Period</b>	June 24, 2010 ~ July 02, 2010		
<b>Issue date</b>	July 13, 2010		
<b>Test result : Complied</b> The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.)			
<b>Tested by</b> : Ho Jin Choi 		<b>Reviewed by</b> : 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 CS & Environment Centre.			
			
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# Table of contents

## **1. Summary of test results**

1.1 Emission

## **2. General Information**

2.1 Test facility

2.2 Accreditation and listing

## **3. Test configuration**

3.1 Test Peripherals

3.2 EUT operating mode

3.3 Details of Sampling

3.4 Used cable description

3.5 EUT Description

3.6 Clock Frequencies

3.7 Test configuration and condition

3.8 Measurement uncertainty

## **4. Result of individual tests**

4.1 Conducted disturbance

4.2 Radiated disturbance

Appendix – EUT photography

# 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
<input checked="" type="checkbox"/>	Conducted Disturbance	FCC Part 15 Subpart B, ICES-003 issue 4	Complied	Meets Class B Limit
<input checked="" type="checkbox"/>	Radiated Disturbance		Complied	Meets Class B Limit

## 2. General Information

### 2.1 Test facility

The CS & Environment Centre 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 CS & Environment Centre is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

### 3. Test configuration

#### 3.1 Test Peripherals

The following is a listing of the EUT and supporting peripherals utilized during testing.

Description	Model No.	Serial No.	Manufacturer	FCC ID and/or DoC
Mono Laser Printer	ML-1865W	-	Samsung	A3LML1865W
Notebook PC	PP81L	2718225373	DELL	DOC
AC Adapter	HP-OQ065B83	CN-ON2755-47890-44I-0249	DELL	DOC
USB Mouse	MOARUO	074007856	Primax Electronics	DOC
Earphone	-	-	Samaung	-

#### 3.2 EUT operating mode (selected)

Operating Mode 1	Stand by
Operating Mode 2	USB Printing
Operating Mode 3	Wireless Network 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 Note PC
USB	1.8	Yes	From Note PC to EUT
USB	1.8	Yes	From Note PC to Mouse
Earphone	1.5	No	For Note PC to Earphone

### 3.5 EUT Description

Item	Specification	Remarks
<b>Processor</b>	JUPITER5(375Mhz)	-
<b>Standard System memory</b>	64MB DDR2 SDRAM	-
<b>Resolution</b>	True 1200x1200dpi	-
<b>Copy Quality mode</b>	N.A	-
<b>Paper Handling</b>	Paper Tray(BIN Type) 150 Sheets	-
<b>Power Rating</b>	110~127 VAC, 8A, 50/60 Hz	-
<b>Power Consumption</b>	Power save mode : 0.45 Watts Printing mode: MAX. 280 Watts	-
<b>Printer Language</b>	PCL5e	-
<b>PC Interfaces</b>	USB2.0, WLAN	-
<b>OS compatibility</b>	MS Windows 98/2000/XP/NT/Me,MAC/2007 (English only, no status monitor, web download only) Linux: Red Hat 8.0~9.0, Fedora Core 1~3, Mandrake 9.0~10.2, SuSE 8.2~9.2. Windows 2003. Netware 4.x	-
<b>Modes of Operation</b>	USB Printing, Network Printing	-
<b>Intended Class for Emissions</b>	Class B	-

### 3.6 Clock Frequencies

Kind of Clocks	Frequency[MHz]	Kind of Clocks	Frequency[MHz]
Main Source	12	Video	12
CPU Internal	375	USB	12
DDR2	166		

### 3.7 Test configuration and 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. All operating mode(s) selected were tested to show compliance with relevant standard for radiated disturbance below 1GHz and conducted disturbance. Radiated disturbance above 1GHz for operating mode that have minimum margin of radiated disturbance below 1GHz were tested and reported.

Power source for the EUT operation was supplied by CVCF made by the Voltech Corp.

- **Testing Voltage : AC 110 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.)

#### 3.8.1 Emission

Test type		Measurement uncertainty (C.L. 95 %, k = 2)
Conducted disturbance	Mains Port	3.00 dB
Radiated Disturbance (30 MHz ~ 1 GHz)	Horizontal	4.95 dB
	Vertical	4.99 dB
Radiated Disturbance (1 GHz ~ 6 GHz)	Horizontal	3.32 dB
	Vertical	3.32 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	Resolution Bandwidth	Limits dB( $\mu$ V)	
		Quasi-peak	Average
0,15 to 0,50	9 kHz	79	66
0,50 to 30	9 kHz	73	60

NOTE The lower limit shall apply at the transition frequency

#### Limits for conducted disturbance at the mains ports of class B

Frequency range Limits MHz	Resolution Bandwidth	Limits dB( $\mu$ V)	
		Quasi-peak	Average
0,15 to 0,50	9 kHz	66 to 56	56 to 46
0,50 to 5	9 kHz	56	46
5 to 30	9 kHz	60	50

NOTE 1 The lower limit shall apply at the transition frequency  
 NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

### 4.1.1 Test instrumentation

Test instrumentations used in the Conducted disturbance test were as follows:

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Receiver	R&S	ESCI	100086	2009-11-19	12
Two-Line V-Network	R&S	ENV216	100117	2009-11-11	12
Two-Line V-Network	R&S	ESH3-Z5	100262	2009-09-18	12
Test software	EMC32	R&S	Ver 4.40.0	N/A	N/A

### 4.1.2 Temperature and humidity condition

Test date	July 02, 2010	Test engineer	Ho Jin Choi
Test place	Shielded Room #1		

### 4.1.3 Photograph of Test Setup



**Front**

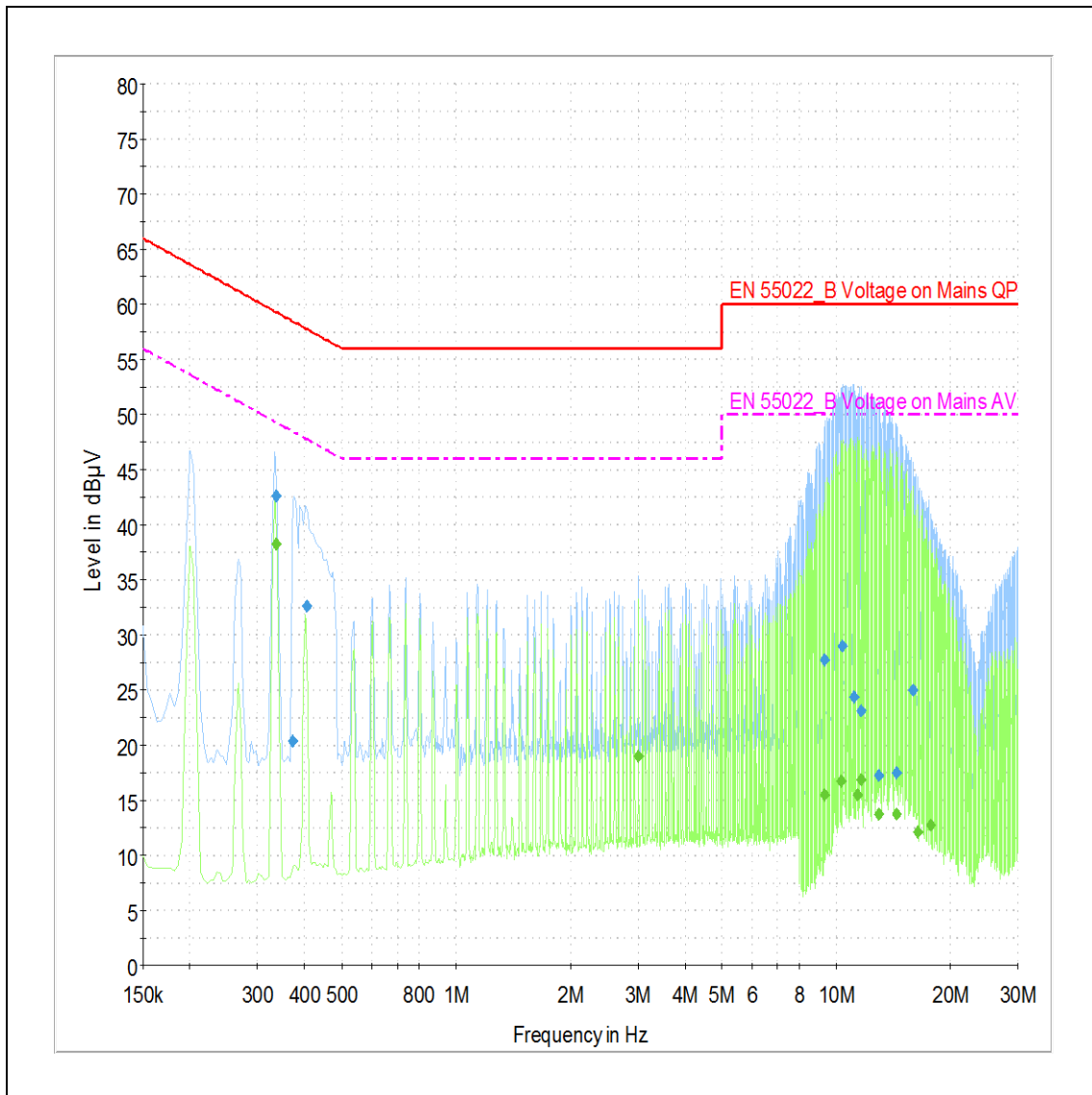


**Rear**

### 4.1.4 Test results (mains port)

- Operating mode 1 : Stand by Mode

#### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

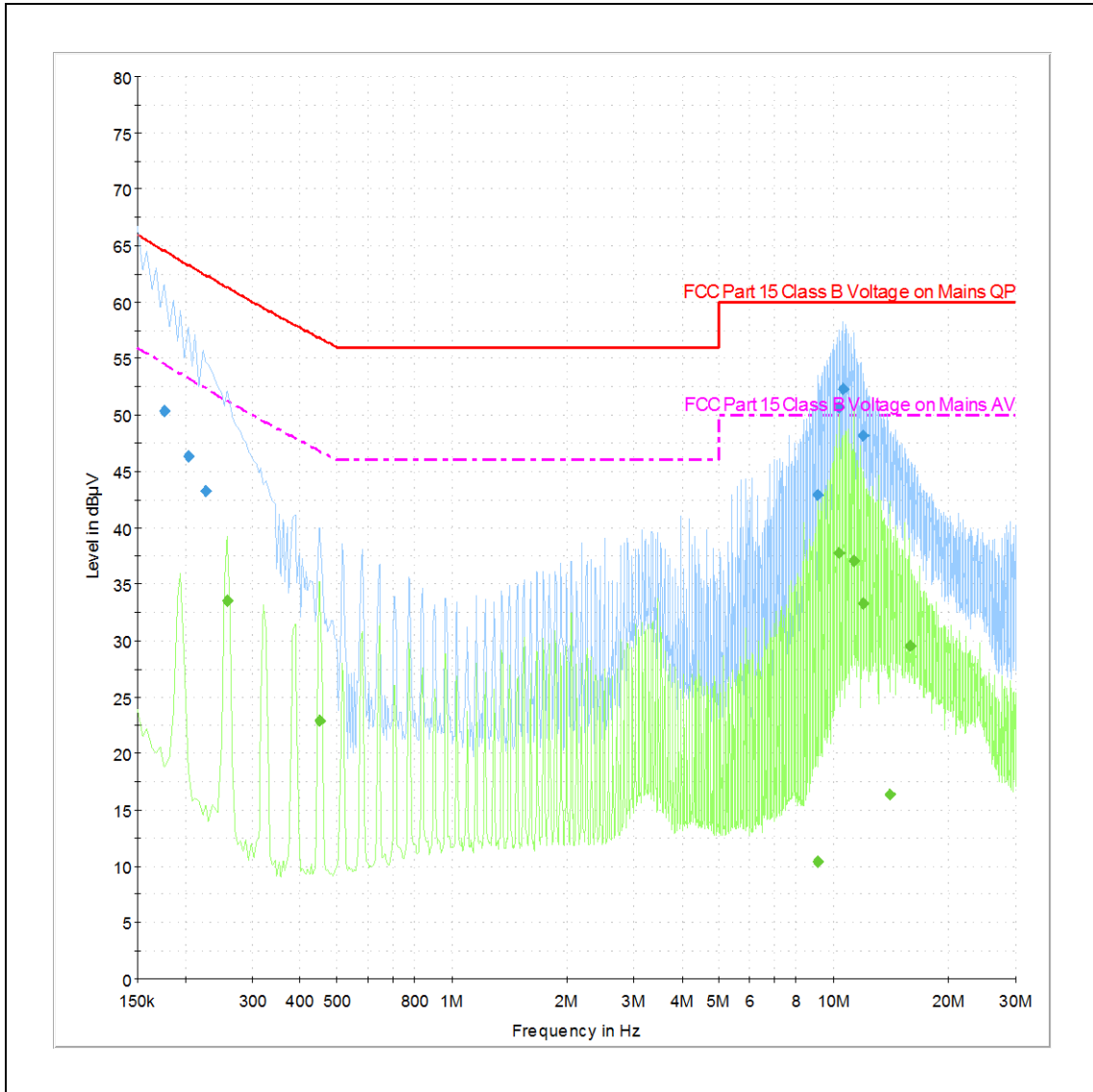
Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.336	42.7	9.0	L1	9.7	16.6	59.3
0.372	20.3	9.0	N	9.7	38.1	58.5
0.4035	32.7	9.0	N	9.7	25.1	57.8
9.2995	27.7	9.0	L1	9.8	32.3	60
10.3705	29	9.0	L1	9.9	31	60
11.104	24.4	9.0	N	9.8	35.6	60
11.5675	23.2	9.0	N	9.8	36.8	60
12.9085	17.3	9.0	N	9.9	42.7	60
14.38	17.5	9.0	N	9.9	42.5	60
15.928	25	9.0	L1	10	35	60

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.336	38.2	9.0	N	9.7	11.1	49.3
3.0085	19.1	9.0	N	9.7	26.9	46
9.295	15.5	9.0	N	9.8	34.5	50
10.2985	16.8	9.0	N	9.8	33.2	50
11.3695	15.5	9.0	N	9.8	34.5	50
11.5675	16.9	9.0	N	9.8	33.1	50
12.904	13.7	9.0	N	9.9	36.3	50
14.3755	13.8	9.0	N	9.9	36.2	50
16.315	12.1	9.0	N	9.9	37.9	50
17.7325	12.8	9.0	L1	10	37.2	50

Note) Level (Quasi-Peak and/or Average) = Meter Reading(Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)  
Margin = Limit – Level (Quasi-Peak and/or Average)

- Operating mode 2 : USB Printing Mode

**Test Graph**



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

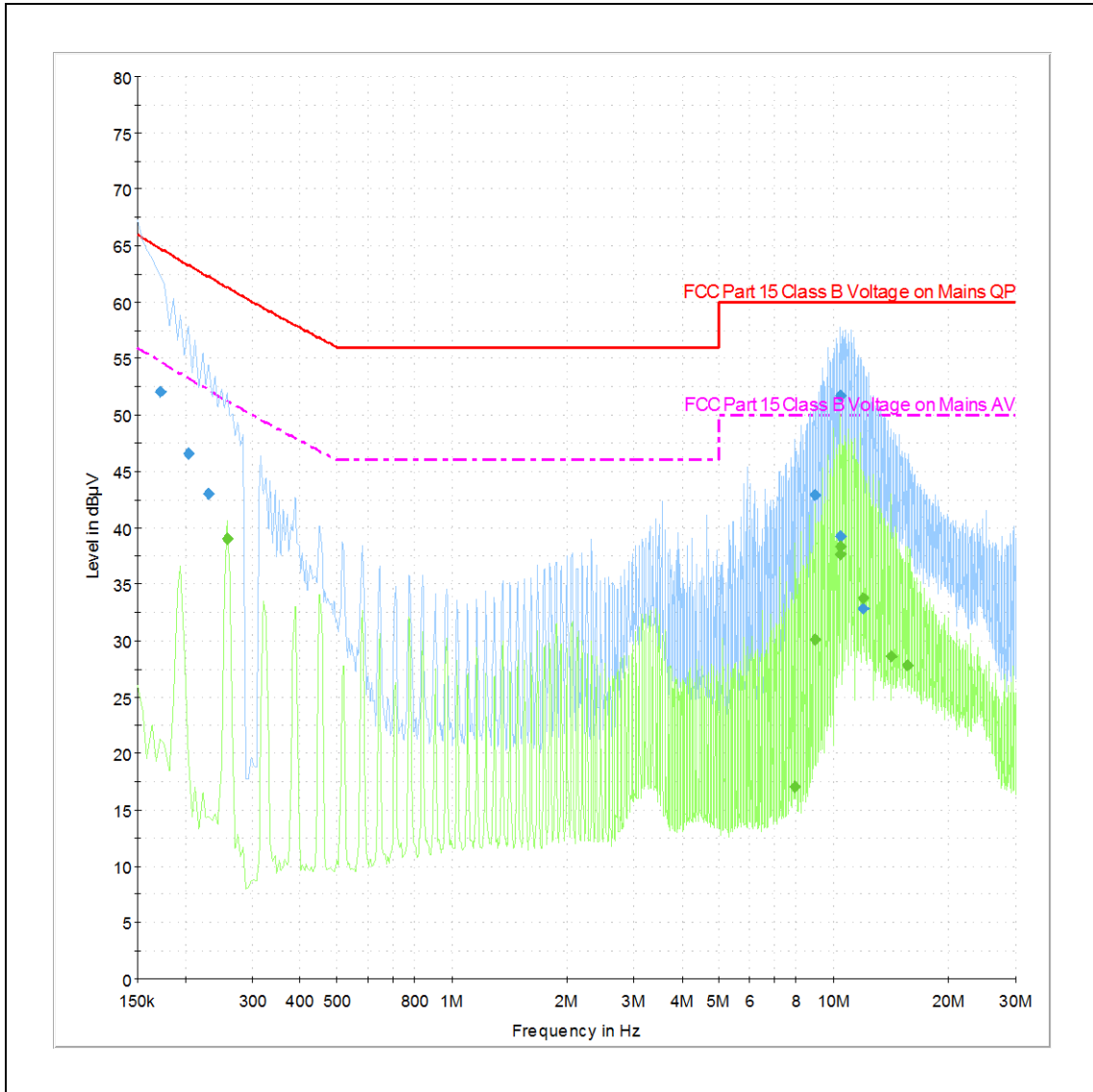
Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.15	54.101	9.0	L1	9.7	14.1	66
0.177	50.345	9.0	L1	9.7	14.2	64.5
0.204	46.386	9.0	L1	9.7	16.9	63.3
0.227	43.239	9.0	L1	9.7	19.2	62.4
9.078	42.949	9.0	L1	9.8	17.1	60
10.365	50.722	9.0	L1	9.9	9.3	60
10.554	52.307	9.0	L1	9.9	7.7	60
11.904	48.202	9.0	L1	9.9	11.8	60

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.258	33.553	9.0	N	9.7	17.7	51.3
0.452	22.871	9.0	N	9.7	23.9	46.8
9.078	10.46	9.0	L1	9.8	39.5	50
10.36	37.773	9.0	L1	9.9	12.2	50
11.314	37.039	9.0	N	9.8	13	50
11.904	33.255	9.0	L1	9.9	16.7	50
14.01	16.379	9.0	N	9.9	33.6	50
15.891	29.52	9.0	L1	10	20.5	50

Note) Level (Quasi-Peak and/or Average) = Meter Reading(Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)  
Margin = Limit – Level (Quasi-Peak and/or Average)

- Operating mode 3 : Wireless Network Printing Mode

**Test Graph**



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.15	54.268	9.0	N	9.7	11.7	66
0.173	52.018	9.0	N	9.7	12.7	64.8
0.204	46.619	9.0	N	9.7	16.7	63.3
0.231	42.983	9.0	N	9.7	19.2	62.2
8.956	42.967	9.0	N	9.8	17	60
10.392	39.207	9.0	L1	9.9	20.8	60
10.441	51.709	9.0	N	9.8	8.3	60
11.944	32.871	9.0	L1	9.9	27.1	60

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.258	39.057	9.0	N	9.7	12.2	51.3
7.944	17.058	9.0	L1	9.8	32.9	50
8.956	30.121	9.0	N	9.8	19.9	50
10.374	38.369	9.0	N	9.8	11.6	50
10.437	37.605	9.0	N	9.8	12.4	50
11.985	33.768	9.0	N	9.9	16.2	50
14.131	28.584	9.0	L1	9.9	21.4	50
15.549	27.789	9.0	L1	9.9	22.2	50

Note) Level (Quasi-Peak and/or Average) = Meter Reading(Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)  
Margin = Limit – Level (Quasi-Peak and/or Average)

## 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( $\mu\text{V}/\text{m}$ )	
	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  $\mu\text{V}/\text{m}$  is regarded as 0 dB.

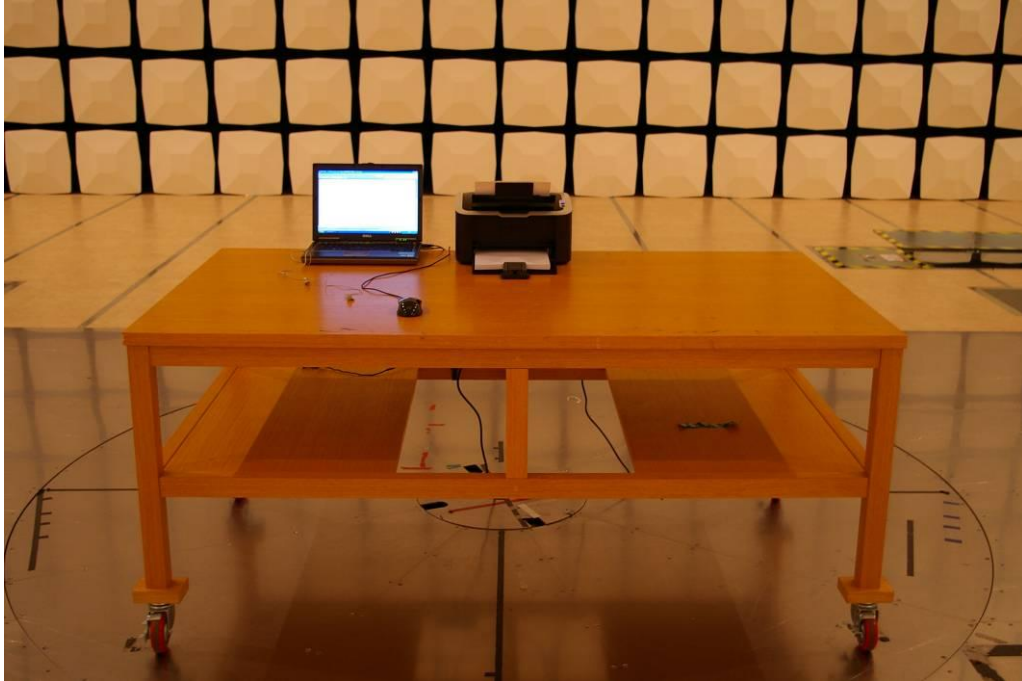
#### 4.2.1 Test instrumentation

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Bilog Antenna	CBL6112D	Schaffner	22604	2010-04-21	24
Bilog Antenna	CBL6112D	Schaffner	22602	2010-04-21	24
Horn Antenna	HF907	R&S	100016	2009-04-27	24
Test Receiver	ESIB-26	R&S	100287	2009-08-27	12
Test Receiver	ESIB-26	R&S	100288	2010-06-04	12
Preamplifier	SCU_F018_G35_ASF42_CNN(F)	R&S	10001	2010-04-19	12
Amplifier	310N	Sonoma	185861	2010-01-28	12
Amplifier	310N	Sonoma	251676	2010-01-28	12
Antenna Mast	MA4000	INN CO	-	N/A	N/A
Antenna Mast	MA4000	INN CO	-	N/A	N/A
Antenna Mast	MA2000	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

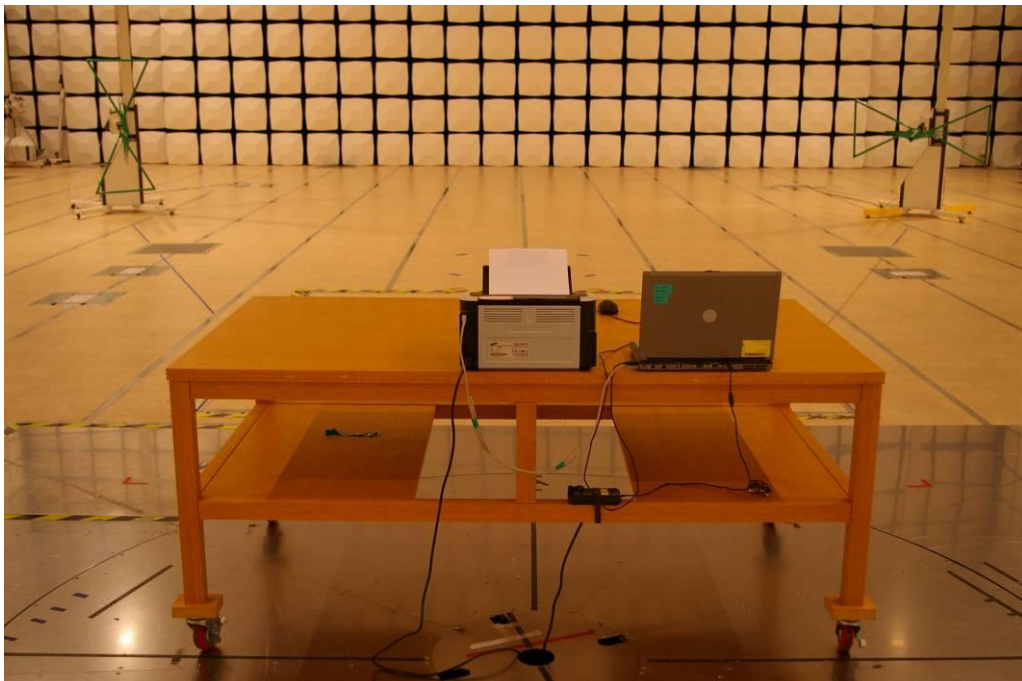
#### 4.2.2 Temperature and humidity condition

Test date	June 24, 2010 ~ June 29, 2010	Test engineer	Ho Jin Choi
Test place	Semi-Anechoic Chamber		

### 4.2.3 Photograph of Test Setup



**Front**

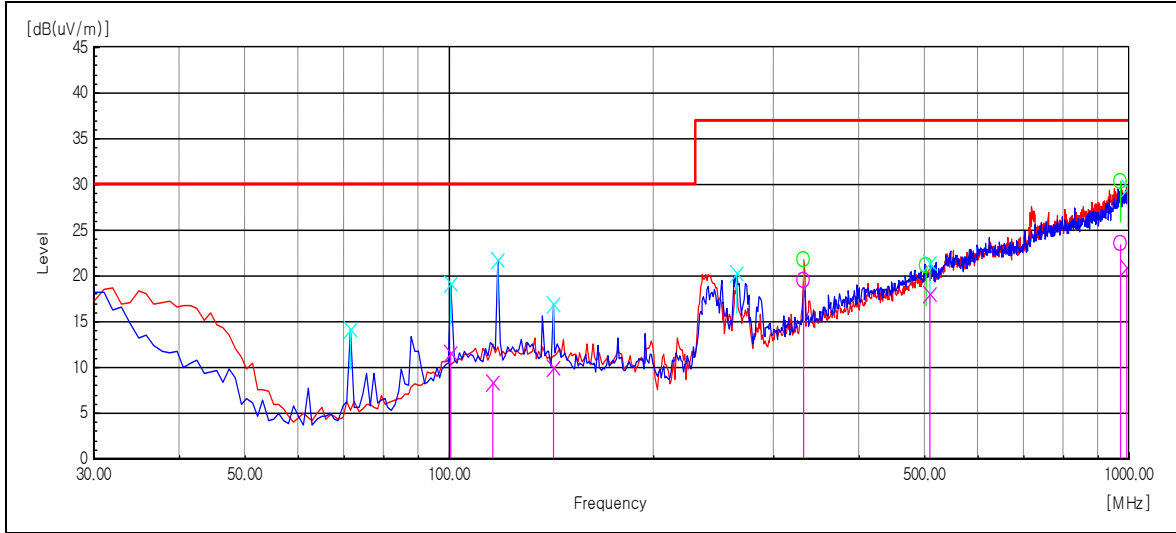


**Rear**

### 4.2.4 Test results( 30 MHz ~ 1 GHz)

- Operating mode 1 : Stand by Mode

#### Test Graph and Results



Frequency [MHz]	Pol.	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
100.513	V	30.7	-19.1	11.6	30	18.4	264	105.8
115.818	V	26.1	-17.7	8.4	30	21.6	151	65.1
142.048	V	28.3	-18.3	10	30	20	132	308.7
332.337	H	32.9	-13.4	19.5	37	17.5	220	357.4
510.068	V	26.6	-8.5	18.1	37	18.9	134	90.6
972.617	H	24.4	-0.9	23.5	37	13.5	369	225.4
993.648	V	21.3	-0.4	20.9	37	16.1	350	0.2

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10m, Antenna Height : 1 to 4 meters

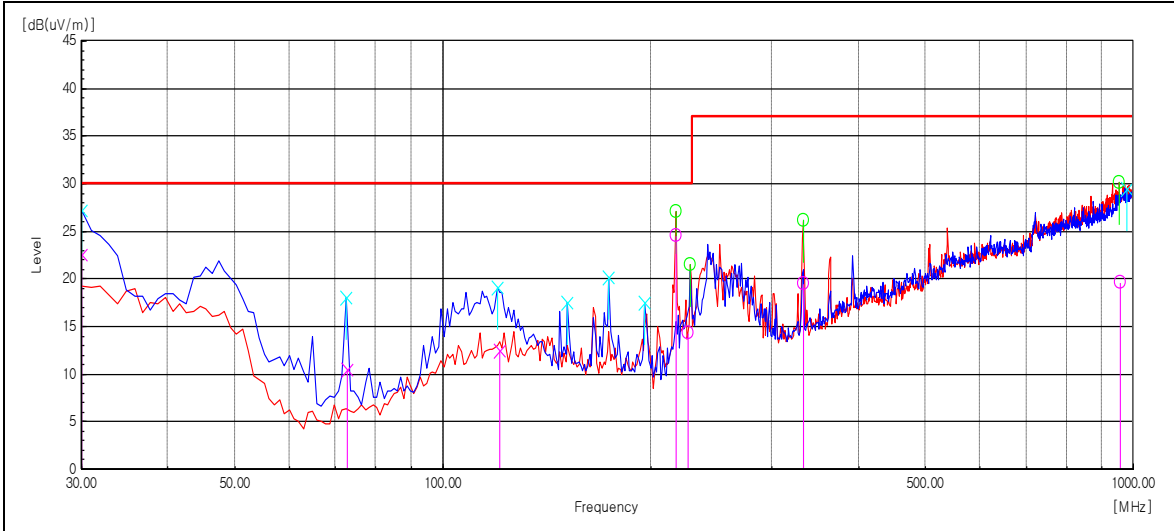
Level QP(Quasi-Peak) = Reading QP + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin QP(Quasi-Peak) = Limit – Level QP



- Operating mode 2 : USB Printing by Mode

**Test Graph and Results**



Frequency [MHz]	Pol.	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
30	V	32.6	-10	22.6	30	7.4	169	244.5
72.863	V	34.8	-24.3	10.5	30	19.5	374	264.9
120.783	V	29.9	-17.5	12.4	30	17.6	122	5.6
217.512	H	43.8	-19.3	24.5	30	5.5	226	1.2
226.234	H	33.3	-18.9	14.4	30	15.6	368	30.1
332.854	H	32.9	-13.4	19.5	37	17.5	318	172.5
956.153	H	20.9	-1.2	19.7	37	17.3	237	4.1

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10m, Antenna Height : 1 to 4 meters

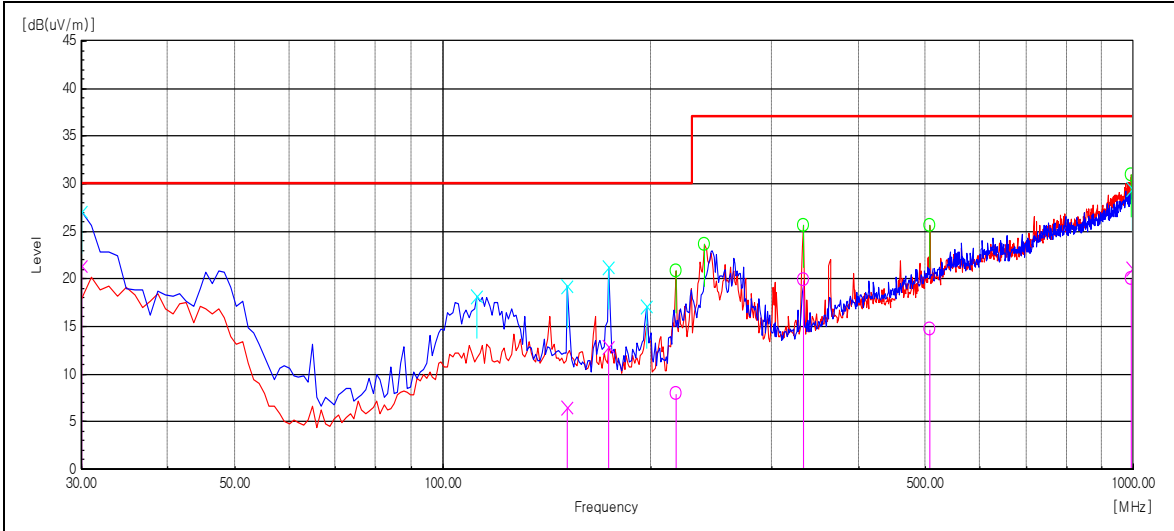
Level QP(Quasi-Peak) = Reading QP + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin QP(Quasi-Peak) = Limit – Level QP



- Operating mode 3 : Wireless Network Printing by Mode

**Test Graph and Results**



Frequency [MHz]	Pol.	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
30	V	31.4	-10	21.4	30	8.6	250	227.8
151.707	V	25.4	-18.9	6.5	30	23.5	138	348.2
173.924	V	32.6	-19.7	12.9	30	17.1	169	3.1
217.391	H	27.2	-19.3	7.9	30	22.1	364	130.2
332.337	H	33.3	-13.4	19.9	37	17.1	134	118.4
508.136	H	23.2	-8.5	14.7	37	22.3	169	169.5
994.132	H	20.8	-0.7	20.1	37	16.9	314	149.8
998.044	V	21.4	-0.3	21.1	37	15.9	331	99.8

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP(Quasi-Peak) = Reading QP + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin QP(Quasi-Peak) = Limit – Level QP

## 4.2.5 Test results ( 1 GHz ~ 2 GHz)

- Operating mode 1 : Stand by Mode

### Results

#### Peak Measurement

Frequency [MHz]	POL	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]
1082.164	H	56.4	-14.7	41.7	74	32.3	106	188.7
1158.317	H	57.4	-14.1	43.3	74	30.7	106	30.3
1597.194	H	52	-10.1	41.9	74	32.1	106	47.1
1663.327	H	51.3	-9.5	41.8	74	32.2	106	141.5
1991.984	H	50.2	-6.8	43.4	74	30.6	106	2.9

#### Average Measurement

Frequency [MHz]	POL	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
1081.813	H	18.5	-14.7	3.8	54	50.2	106	188.1
1162.435	H	21	-14.1	6.9	54	47.1	106	30.8
1594.499	H	17.5	-10.1	7.4	54	46.6	106	46.6
1663.658	H	14.5	-9.5	5	54	49	106	140.9
1994.699	H	14.5	-6.8	7.7	54	46.3	106	3.3

Note1) Representative operating mode having minimum margin below 1GHz were selected for radiated

Note2) Receiving antenna polarization : Horizontal and Vertical

Test Distance : 3m, Antenna Height : 1 to 2 meters

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- **Operating mode 2 : USB Printing Mode**

**Results**

Peak Measurement

Frequency [MHz]	POL	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]
1160.321	H	56.8	-14.1	42.7	74	31.3	106	47.6
1597.194	H	52.7	-10.1	42.6	74	31.4	106	142
1663.327	H	54.4	-9.5	44.9	74	29.1	106	47.6
1743.487	H	51.2	-8.9	42.3	74	31.7	106	31.8
1799.599	H	53.5	-8.4	45.1	74	28.9	106	0.7

Average Measurement

Frequency [MHz]	POL	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
1161.954	H	20.5	-14.1	6.4	54	47.6	106	47.2
1596.182	H	28.5	-10.1	18.4	54	35.6	106	141.4
1665.321	H	18.3	-9.5	8.8	54	45.2	106	48.2
1742.034	H	15.3	-8.9	6.4	54	47.6	106	32.4
1802.535	H	15.1	-8.4	6.7	54	47.3	106	1.2

Note1) Representative operating mode having minimum margin below 1GHz were selected for radiated

Note2) Receiving antenna polarization : Horizontal and Vertical

Test Distance : 3m, Antenna Height : 1 to 2 meters

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- **Operating mode 3 : Wireless Network Printing Mode**

**Results**

Peak Measurement

Frequency [MHz]	POL	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]
1080.16	H	61.9	-14.7	47.2	74	26.8	106	86.9
1595.19	H	54	-10.1	43.9	74	30.1	106	86.9
1613.227	H	53.3	-10	43.3	74	30.7	106	6.9
1745.491	H	54.6	-8.9	45.7	74	28.3	106	359.4
1829.659	H	49.9	-8.2	41.7	74	32.3	106	152

Average Measurement

Frequency [MHz]	POL	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
1078.186	H	21.1	-14.8	6.3	54	47.7	106	87.4
1597.084	H	23.4	-10.1	13.3	54	40.7	106	87.4
1612.816	H	15.2	-10	5.2	54	48.8	106	7.4
1742.715	H	15.3	-8.9	6.4	54	47.6	106	358.9
1828.467	H	14.1	-8.2	5.9	54	48.1	106	152.5

Note1) Representative operating mode having minimum margin below 1GHz were selected for radiated

Note2) Receiving antenna polarization : Horizontal and Vertical

Test Distance : 3m, Antenna Height : 1 to 2 meters

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

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## Appendix – EUT photography



Front View



Rear View





Rear View & Label location



Internal View



 Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M264	<b>Model:</b> ML-1865W <b>Volts:</b> AC 110-127V <b>Hertz:</b> 50/60 Hz <b>Amps:</b> 5A <b>Manufactured:</b>	<b>FCC ID :</b> A3LML1865W (Printer) <b>Contains FCC ID :</b> xxxxxx-xxxxx  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 product complies with 21 CFR Chapter 1, subchapter J. This Class B digital apparatus complies with Canadian ICES-003 <b>Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.</b> <b>Contains IC :</b> xxxx-xxxxxxxx
	 <b>3UU7</b> <b>E337632</b> <b>I.T.E.</b>	<b>Serial No.</b>

Label