

EMC TEST REPORT

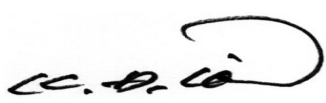
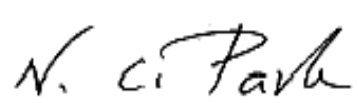
Project No.	LBE081269	Issue No.	3
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742	
	Date of application	April 14, 2008	
EUT	Type of device	Class B personal computers and peripherals	
	Equipment authorization	Certification	
	FCC ID	A3LSCX4300	
	Kind of product	LASER Multi-function Printer	
	Model No.	SCX-4300	
		Variant Model No.	SCX-4300R
	Manufacturer	Samsung Electronics Co., Ltd. 259, Gongdan-Dong, Gumi-City, Gyeongsangbuk-Do, Korea 730-030 Samsung Electronics (Shandong) Digital Printing Co., Ltd. 264209, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China Weihai Shin Heung Digital Electronics Co., Ltd. 98, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China Intops (Weihai) Electronics Co., Ltd. Keji Road-268-1, Weihai Hi-tech IDZ, Shandong Province CHINA	
Applied Standards		FCC Part 15, Subpart B / ANSI C63.4-2003	
Test Period		April 17, 2008 ~ May 6, 2008	
Issue date		May 6, 2008	
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 : Kyeong Dong Kim 		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
☒	Radiated Disturbance		Complied	Meets Class B Limit

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 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
LASER Multi-function Printer	SCX-4300	-	Samsung	A3LSCX4300
Notebook PC	NT-R50	735D93DY70000 2E	Samsung	DoC
AC Adapter	AD-9019S	CNBA4400215A D2VH8155322	LiShin	-
USB Joystick	X04-97602	3760200731616	Microsoft	Doc
USB Mouse	M-UR69a	HCA50702188	Logitech	Doc
Headset	Axis-202	-	babtec	Doc

3.2 EUT operating mode (selected)

Operating Mode 1	Standby Mode
Operating Mode 2	USB Printing Mode
Operating Mode 3	Scan to PC(2400dpi) Mode
Operating Mode 4	1:99 Copy Mode

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
USB	1.8	Yes	From Note PC to the EUT From Note PC to USB Mouse From Note PC to USB Joystick
Power	1.8	No	For Notebook PC
Headset	1.0	Yes	From headset to Note PC

3.5 EUT Description

Item	Specification	Remarks
Processor	CHROUS2(ARM7TDMI, 66MHz)	-
Standard System memory	8MB SDRAM	-
Resolution	600x600dpi	-
Copy Quality mode	TEXT:600x300dpi TEXT/PHOTO:600x300dpi PHOTO:600x600dpi	-
Paper Handling	Paper Tray(standard) 150 Sheets 2nd Tray(optional) : NA Bypass Tray : NA	-
Power Rating	110~127 VAC, 4.0A, 50/60 Hz	-
Power Consumption	Power save mode : Less than 10Watts Stand by mode : Less than 10Watts Average : 350Watts	-
Printer Language	SPL	-
Interfaces	USB2.0	-
OS compatibility	Windows 2000 / XP / 2003 / Vista Various Linux OS Mac OS 10.3~10.4	-
Modes of Operation	USB Printing, Copy and Scan to PC	-
Intended Class for Emissions	Class B	-

3.6 Clock Frequencies

Kind of Clocks	Frequency[MHz]	Kind of Clocks	Frequency[MHz]
Main Source	10	Video	16.59
CPU Internal	66	SDRAM	66
USB Device	12		

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 115 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	± 3.4 dB
Radiated disturbance	Horizontal	± 4.3 dB
	Vertical	± 5.2 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 instrumentations used in the Conducted disturbance test were as follows:

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Measuring receiver	ESCI	R&S	100136	2008-04-16	12
Artificial mains network	ENV216	R&S	100116	2007-09-13	12
Artificial mains network	ESH3-Z5	R&S	100262	2007-09-03	12
Test software	EMC32	R&S	Ver 4.40.0	N/A	N/A

4.1.2 Temperature and humidity condition

Test date	April 17, 2008	Test engineer		Kyeong Dong Kim	
Climate condition	Ambient temperature	23.0 °C	Relative humidity		40 %
	Atmospheric pressure	101.2 kPa			
Test place	Shielded Room #1				

4.1.3 Photograph of Test Setup



Front

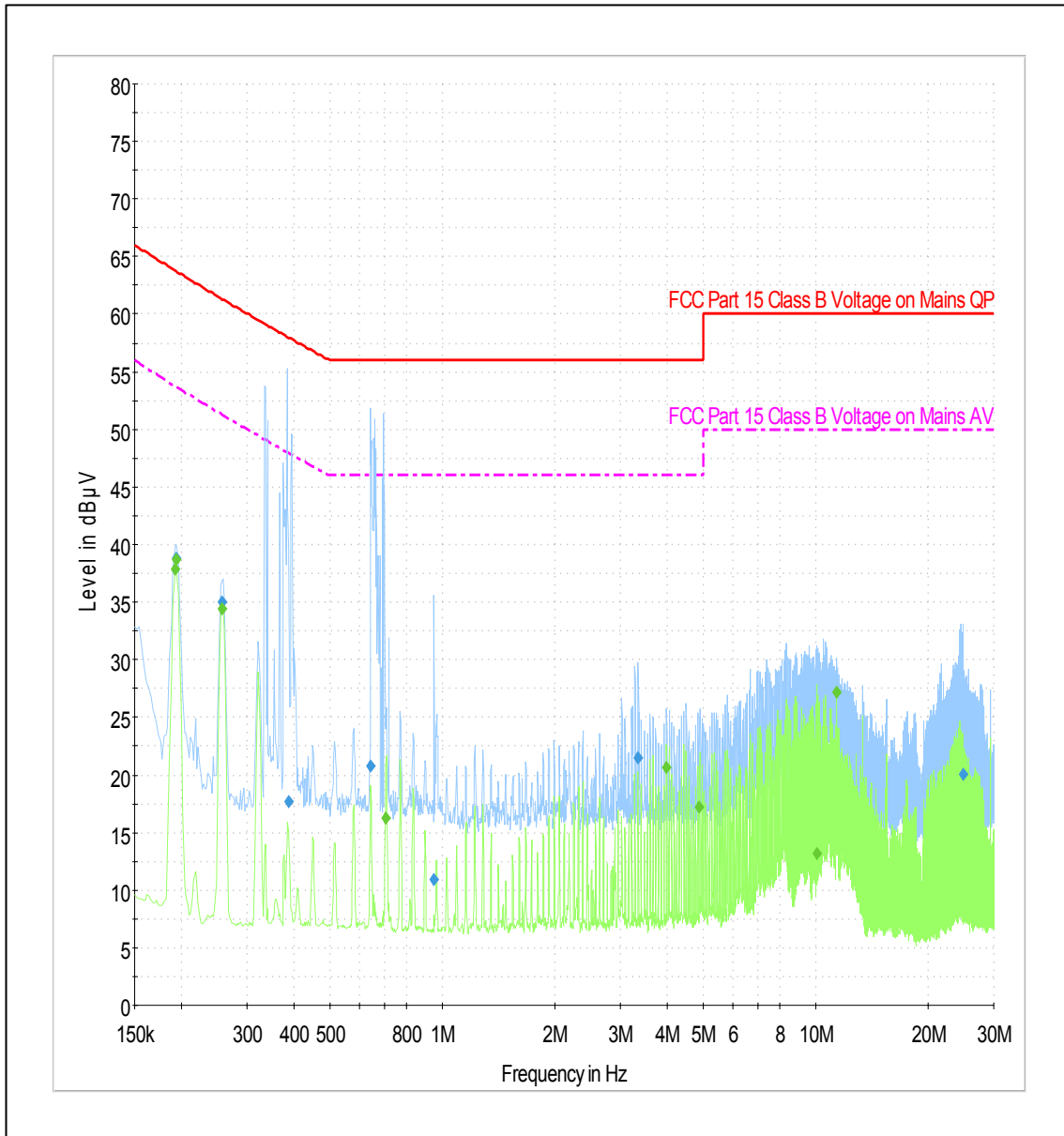


Rear

4.1.4 Test results

- Operating Mode 1 : Standby 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]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.194	L1	9.0	9.6	38.8	24.9	63.7
0.258	N	9.0	9.6	35.0	26.3	61.3
0.389	L1	9.0	9.6	17.6	40.3	58.0
0.644	L1	9.0	9.7	20.8	35.2	56.0
0.950	L1	9.0	9.7	10.9	45.1	56.0
3.345	L1	9.0	9.8	21.5	34.5	56.0
24.827	L1	9.0	10.3	20.0	40.0	60.0

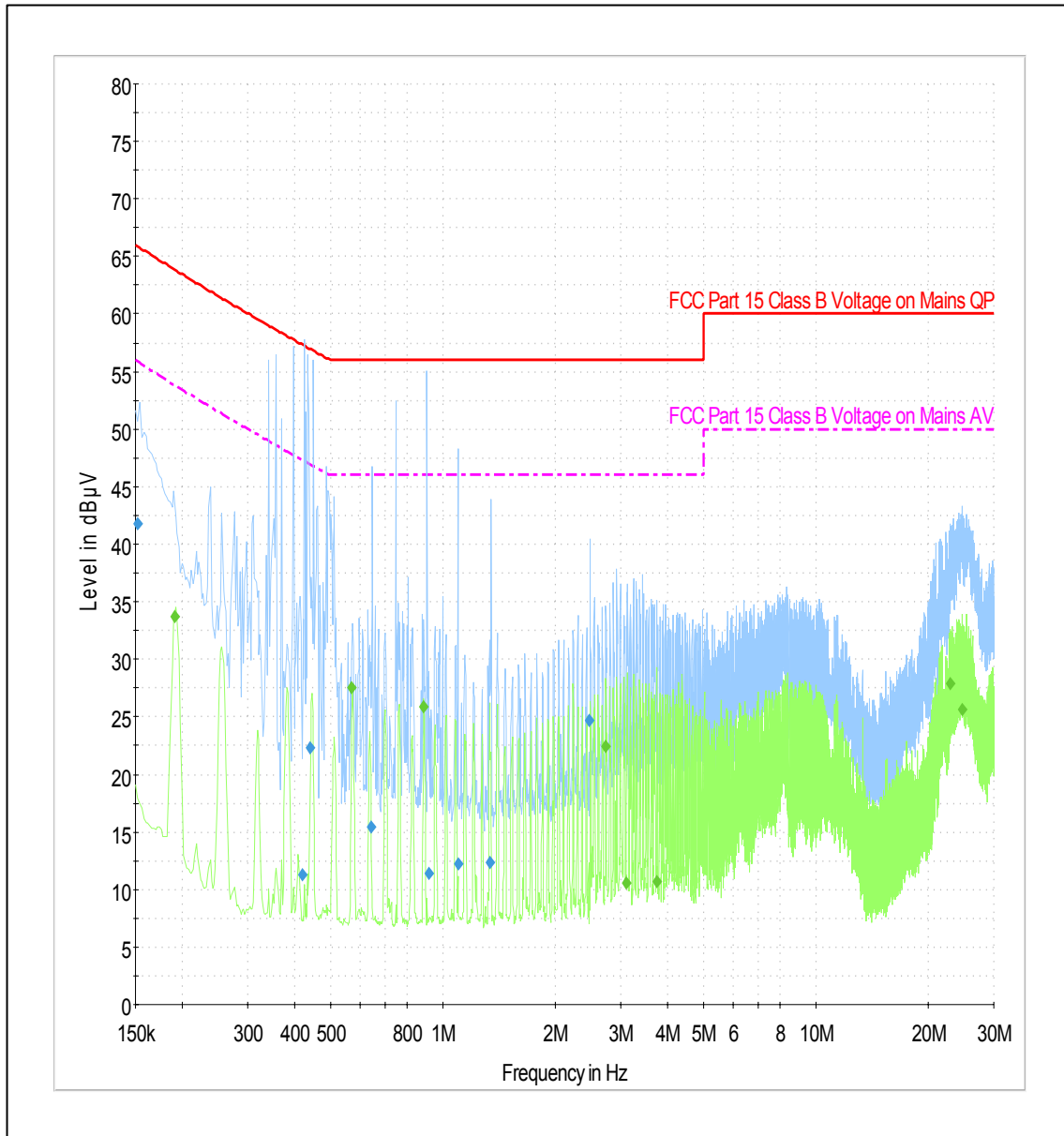
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.193	L1	9.0	9.6	37.9	15.9	53.8
0.194	L1	9.0	9.6	38.6	15.1	53.7
0.257	N	9.0	9.6	34.4	16.9	51.3
0.707	N	9.0	9.6	16.2	29.8	46.0
3.986	L1	9.0	9.8	20.7	25.3	46.0
4.888	L1	9.0	9.8	17.3	28.7	46.0
10.101	L1	9.0	9.9	13.2	36.8	50.0
11.348	L1	9.0	10.0	27.2	22.8	50.0

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)

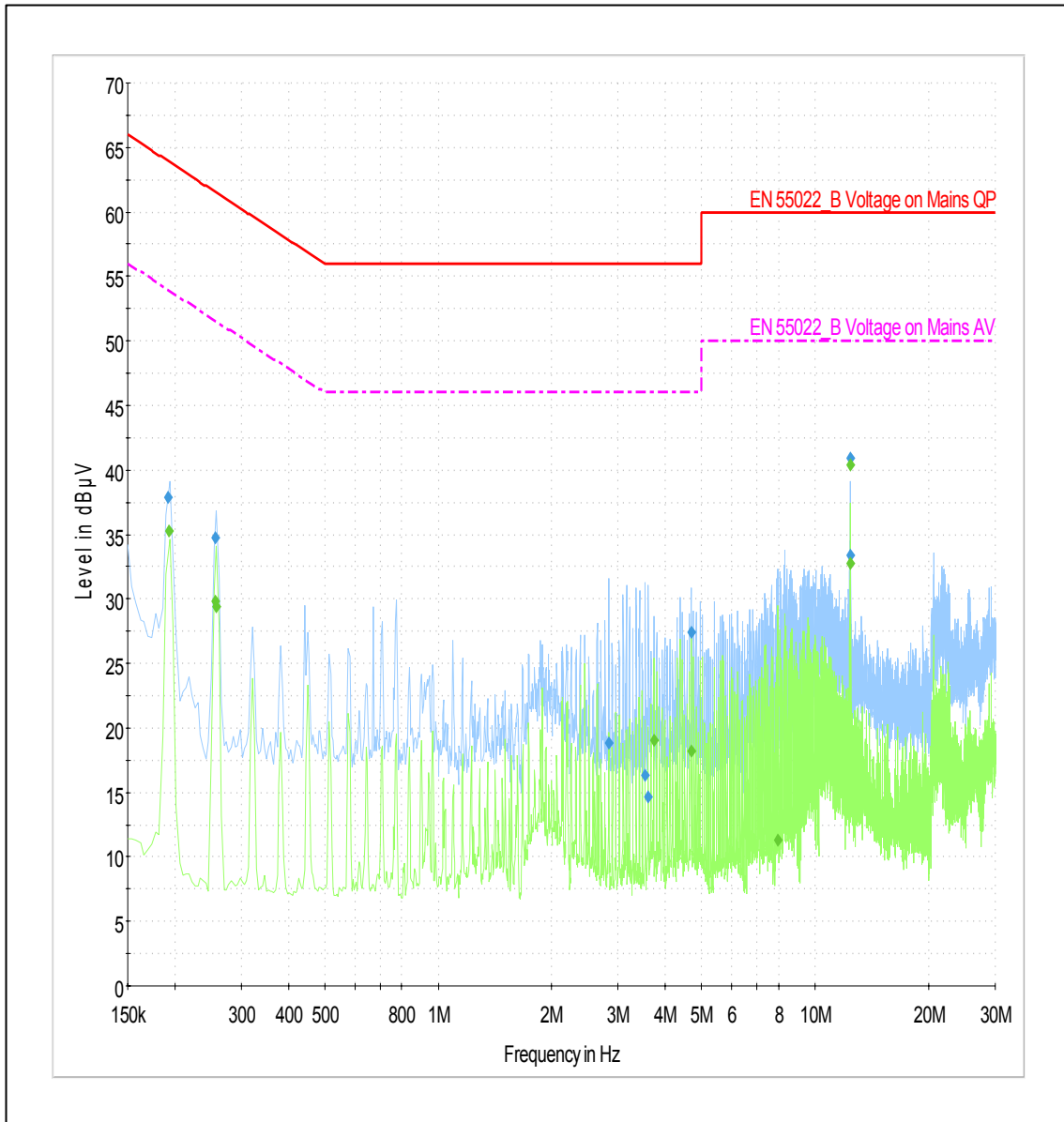
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.152	N	9.0	9.6	41.8	24.1	65.9
0.422	L1	9.0	9.6	11.3	46.1	57.3
0.442	L1	9.0	9.6	22.3	34.6	57.0
0.641	L1	9.0	9.7	15.4	40.6	56.0
0.915	L1	9.0	9.7	11.4	44.6	56.0
1.100	L1	9.0	9.7	12.2	43.8	56.0
1.341	L1	9.0	9.7	12.3	43.7	56.0
2.477	L1	9.0	9.7	24.7	31.3	56.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.191	L1	9.0	9.6	33.7	20.2	53.9
0.571	N	9.0	9.6	27.6	18.4	46.0
0.889	N	9.0	9.7	25.8	20.2	46.0
2.729	N	9.0	9.7	22.5	23.5	46.0
3.113	N	9.0	9.7	10.5	35.5	46.0
3.746	N	9.0	9.8	10.7	35.3	46.0
22.995	N	9.0	10.3	27.9	22.1	50.0
24.707	N	9.0	10.3	25.7	24.3	50.0

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 : Scan to PC(2400dpi) Mode

Test Graph



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

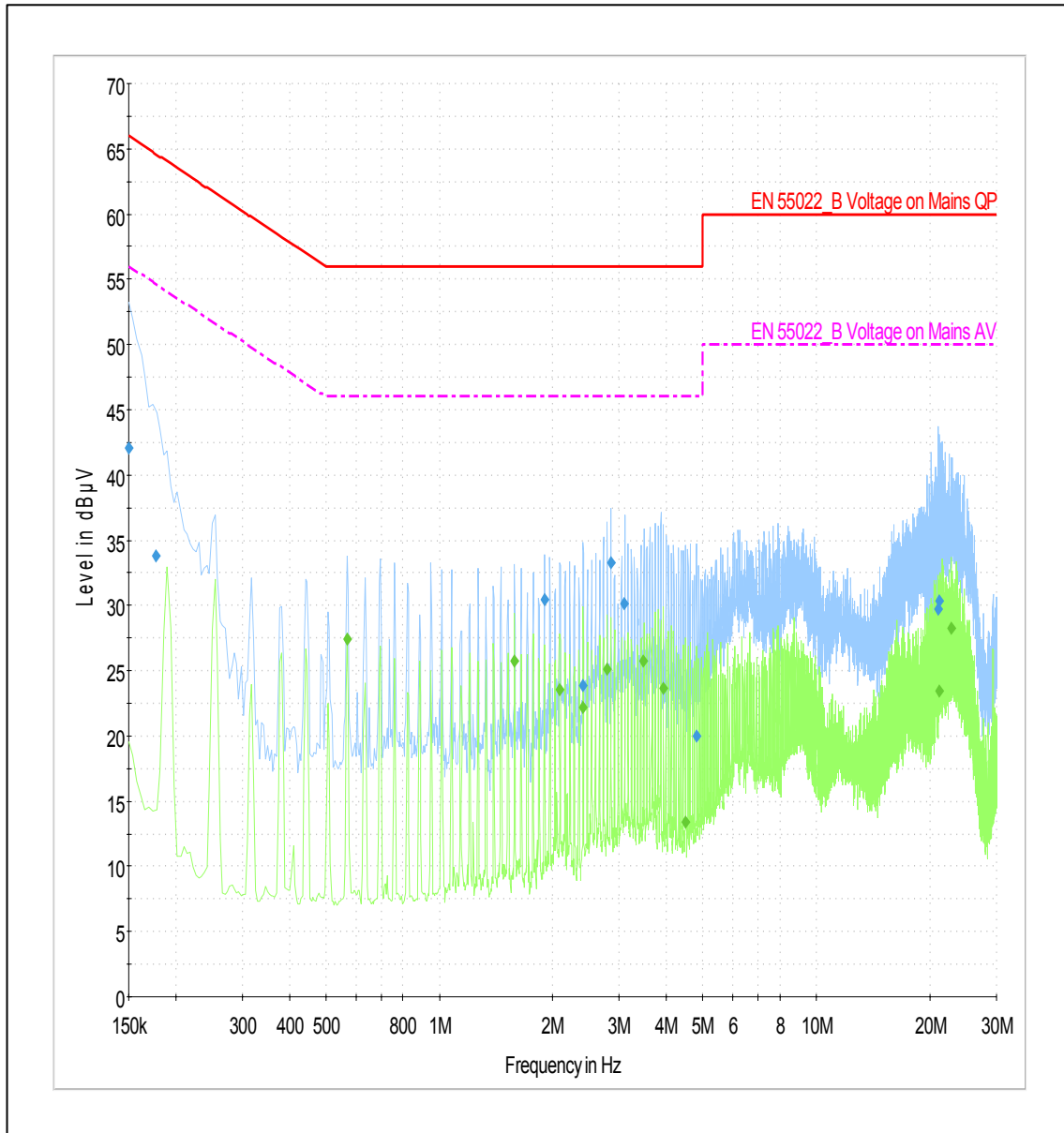
Test Results (Quasi-Peak and Average)

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.192	L1	9.0	9.6	37.9	26.1	64.0
0.256	L1	9.0	9.6	34.7	26.8	61.6
2.826	L1	9.0	9.7	18.8	37.2	56.0
3.538	L1	9.0	9.8	16.3	39.7	56.0
3.601	L1	9.0	9.8	14.6	41.4	56.0
4.687	N	9.0	9.8	27.4	28.6	56.0
12.379	L1	9.0	10.0	41.0	19.0	60.0
12.418	L1	9.0	10.0	33.3	26.7	60.0
0.192	L1	9.0	9.6	37.9	26.1	64.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.193	L1	9.0	9.6	35.2	18.7	53.9
0.257	L1	9.0	9.6	29.9	21.7	51.5
0.258	L1	9.0	9.6	29.4	22.1	51.5
3.725	N	9.0	9.8	19.0	27.0	46.0
4.689	N	9.0	9.8	18.2	27.8	46.0
7.965	N	9.0	9.9	11.3	38.7	50.0
12.380	L1	9.0	10.0	40.4	9.6	50.0
12.418	L1	9.0	10.0	32.8	17.2	50.0

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)

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]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.6	42.1	23.9	66.0
0.178	N	9.0	9.6	33.8	30.8	64.6
1.898	L1	9.0	9.7	30.4	25.6	56.0
2.403	N	9.0	9.7	23.8	32.2	56.0
2.846	L1	9.0	9.8	33.3	22.7	56.0
3.096	N	9.0	9.7	30.1	25.9	56.0
4.806	N	9.0	9.8	19.9	36.1	56.0
21.058	N	9.0	10.2	29.8	30.2	60.0
21.185	N	9.0	10.2	30.3	29.7	60.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.570	L1	9.0	9.6	27.4	18.6	46.0
1.580	L1	9.0	9.7	25.7	20.3	46.0
2.084	N	9.0	9.7	23.5	22.5	46.0
2.402	N	9.0	9.7	22.1	23.9	46.0
2.782	L1	9.0	9.7	25.2	20.8	46.0
3.477	L1	9.0	9.8	25.7	20.3	46.0
3.921	L1	9.0	9.8	23.6	22.4	46.0
4.487	N	9.0	9.8	13.4	32.6	46.0
21.071	N	9.0	10.2	23.4	26.6	50.0
22.776	N	9.0	10.3	28.3	21.7	50.0

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)
Bi-con Antenna	CBL6112D	Schaffner	22602	2006-06-26	24
Bi-con Antenna	CBL6112B	Schaffner	2804	2007-04-16	24
Horn Antenna	BBHA9120B	Schwarzbeck	338	2007-07-27	12
EMI Receiver	ESIB-26	R&S	100290	2008-03-27	12
EMI Receiver	ESIB-26	R&S	100147	2007-06-15	12
Amplifier	310N	Agilent	185861	2007-12-04	12
Amplifier	310N	Agilent	251676	2008-03-13	12
Amplifier	TPA0108-40	TOYO	0433	N/A	N/A
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

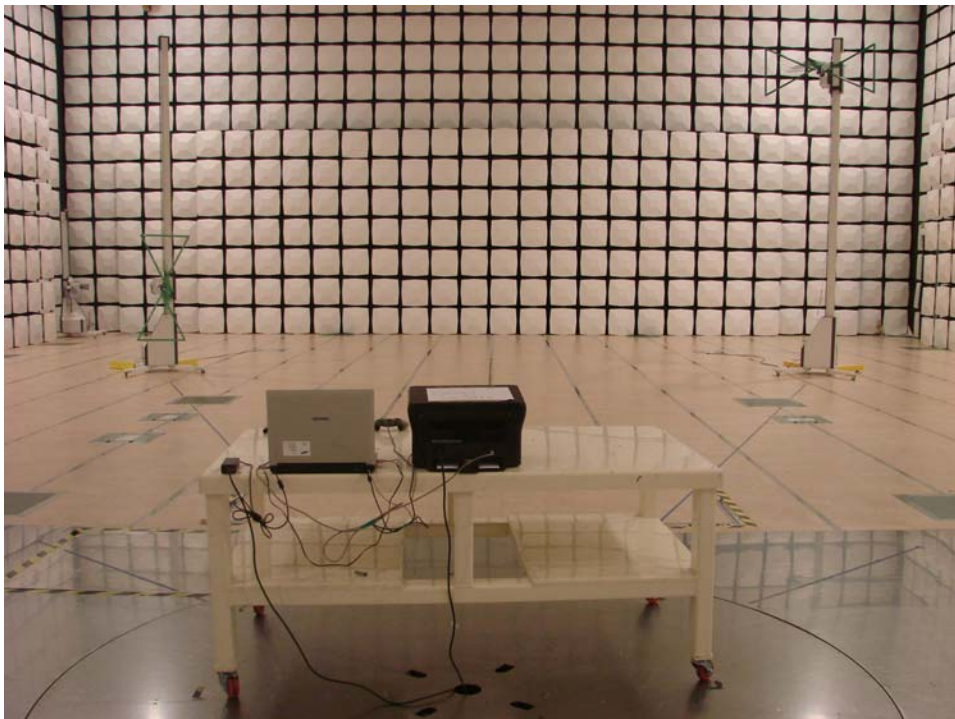
4.2.2 Temperature and humidity condition

Test date	April 26, 2008~May 6, 2008	Test engineer		Kyeong Dong Kim	
Climate condition	Ambient temperature	23.3 ℃	Relative humidity		37 %
	Atmospheric pressure	101.0 kPa			
Test place	Semi-Anechoic Chamber				

4.2.3 Photograph of Test setup (30 MHz ~ 1 GHz)



Front

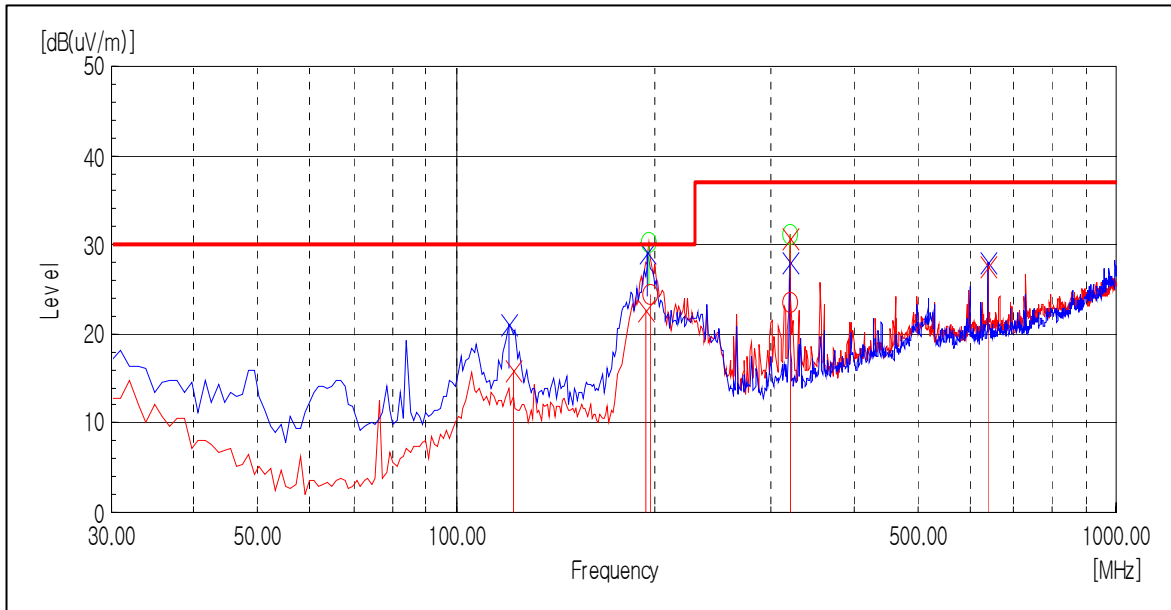


Rear

4.2.4 Test results (30 MHz ~ 1 GHz)

- Operating Mode 1 : Standby 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]
122.21	V	33.5	-17.5	16.0	30	14.0	145	330.4
193.98	V	40.9	-18.3	22.6	30	7.4	109	31
197.06	H	44.0	-19.5	24.5	30	5.5	330	330.4
320.00	V	44.2	-13.4	30.8	37	6.2	102	162.2
320.01	H	36.7	-13.2	23.5	37	13.5	266	330.4
640.01	V	34.6	-7.0	27.6	37	9.4	269	155.6

Note) Receiving antenna polarization : Horizontal and/or Vertical

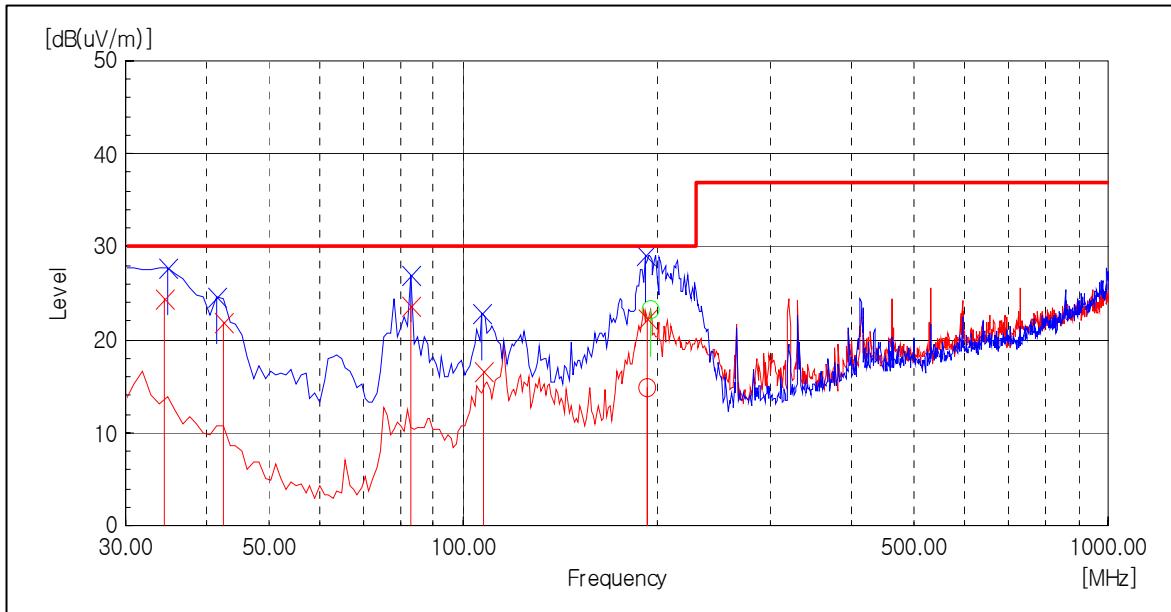
Test Distance : 10m, Antenna Height : 1 to 4 meters

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 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]
34.487	V	39.4	-15	24.4	30	5.6	100	37.2
42.485	V	40.6	-18.8	21.8	30	8.2	102	134.9
82.967	V	45.8	-22.2	23.6	30	6.4	177	93.1
107.878	V	34.9	-18.3	16.6	30	13.4	100	0.3
193.102	V	40.7	-18.4	22.3	30	7.7	121	206
193.141	H	33.8	-19	14.8	30	15.2	300	0.3

Note) Receiving antenna polarization : Horizontal and/or Vertical

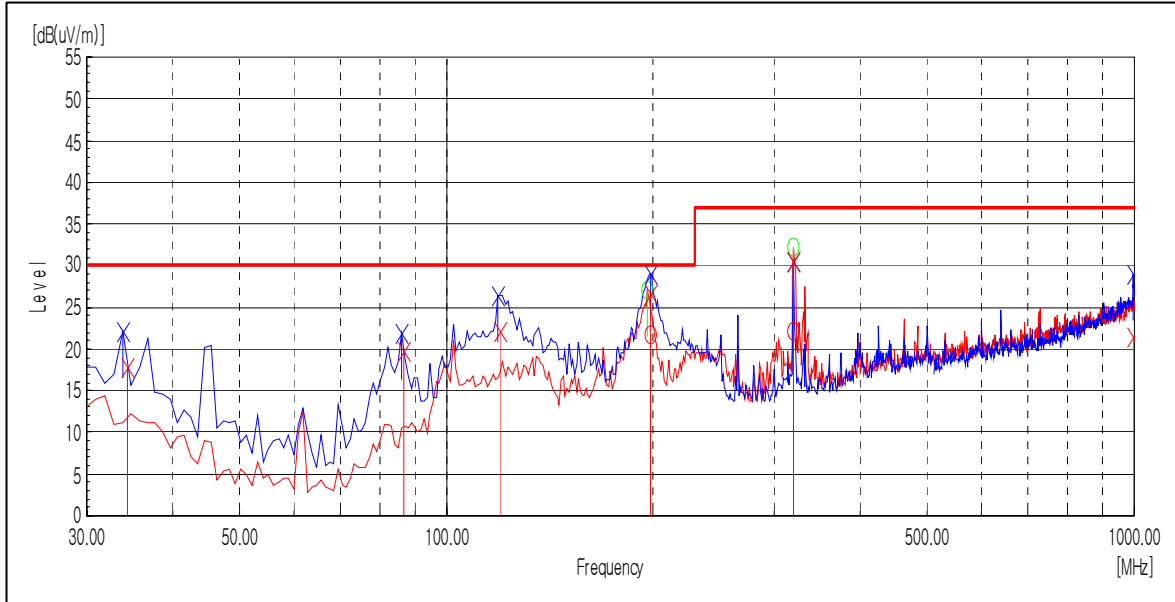
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode 3 : Scan to PC(2400dpi) Mode

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
34.32	V	32.8	-14.9	17.9	30.0	12.1	100	0.3
86.65	V	41.3	-21.6	19.7	30.0	10.3	200	70.5
119.68	V	39.6	-17.6	22.0	30.0	8.0	100	162.2
198.05	V	44.8	-18.1	26.7	30.0	3.3	133	160.8
198.07	H	41.3	-19.5	21.8	30.0	8.2	400	93.8
319.99	H	35.3	-13.2	22.1	37.0	14.9	200	0.3
320.00	V	44.0	-13.4	30.6	37.0	6.4	100	182.1
996.68	V	21.8	-0.3	21.5	37.0	15.5	350	357.4

Note) Receiving antenna polarization : Horizontal and/or Vertical

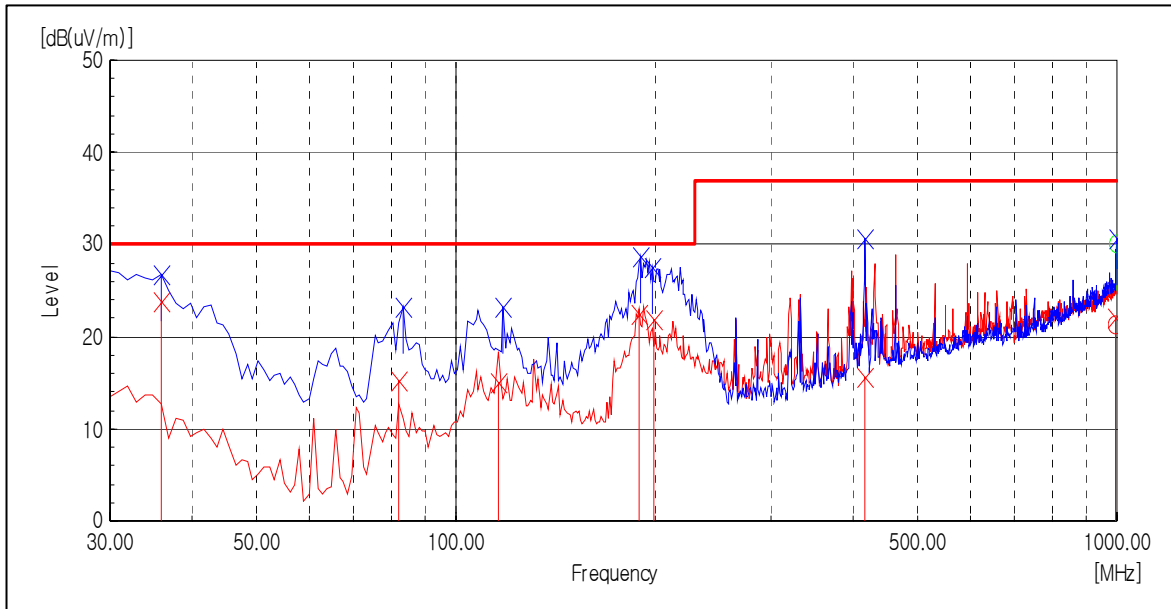
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode 4 : 1:99 Copy 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]
35.945	V	39.4	-15.5	23.9	30	6.1	108	138
82.175	V	37.6	-22.3	15.3	30	14.7	100	0.3
116.147	V	32.9	-17.8	15.1	30	14.9	300	153.9
189.306	V	40.9	-18.5	22.4	30	7.6	125	218.4
199.613	V	40	-18	22	30	8.0	102	246.8
414.639	V	26.3	-10.6	15.7	37	21.3	100	353.1
996.778	V	22.4	-0.3	22.1	37	14.9	350	281.9
996.807	H	22	-0.7	21.3	37	15.7	250	0.3

Note) Receiving antenna polarization : Horizontal and/or Vertical

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

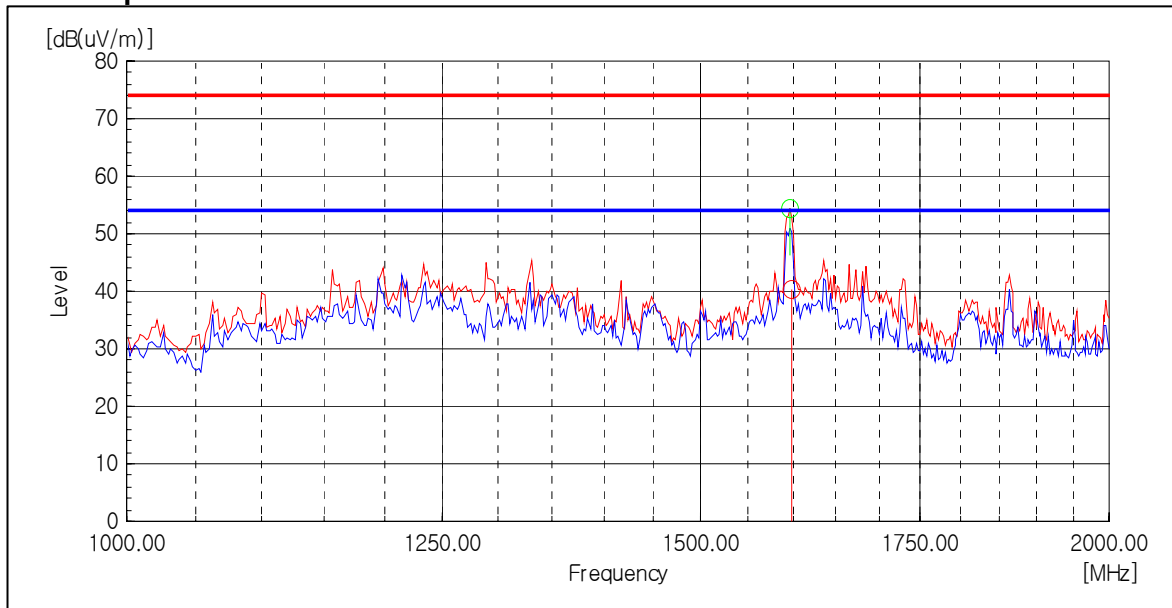
Level QP(Quasi-Peak) = Reading QP + Factor(Antenna Factor + Cable Loss - Amp. Gain)

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

4.2.5 Test results (1 GHz ~ 2 GHz)

- Operating Mode 3 : Scan to PC(2400dpi) Mode

Test Graph and 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]
1597.19	H	58.1	-3.9	54.2	74	19.8	100	24

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]
1599.30	H	44.2	-3.9	40.3	54	13.7	101	10

Note1) Representative operating mode having minimum margin below 1GHz were selected for radiated emission measurement above 1GHz, and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

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

Level PK(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)

Appendix – EUT photography



Front View



Rear View



Internal View 1



Internal View 2



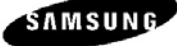
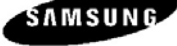
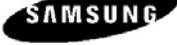
Internal View 3



Internal View 4



Label Location

 Model: CLP-315W Volts: AC 110-127V Hertz: 50/60 Hz Amps: 8A Manufactured:  51Y7 LISTED US E149091 I.T.E.	FCC ID : A3LCLP315W (Printer) FCC ID : A3LSWL-2900U (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-SWL2900U (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	MADE IN KOREA REV.00
 Model: CLP-315W Volts: AC 110-127V Hertz: 50/60 Hz Amps: 8A Manufactured:  51Y7 LISTED US E149091 I.T.E.	FCC ID : A3LCLP315W (Printer) FCC ID : A3LSWL-2900U (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-SWL2900U (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	MADE IN CHINA REV.00
 Model: CLP-310W Volts: AC 110-127V Hertz: 50/60 Hz Amps: 8A Manufactured:  51Y7 LISTED US E149091 I.T.E.	FCC ID : A3LCLP315W (Printer) FCC ID : A3LSWL-2900U (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-SWL2900U (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	MADE IN KOREA REV.00
 Model: CLP-310W Volts: AC 110-127V Hertz: 50/60 Hz Amps: 8A Manufactured:  51Y7 LISTED US E149091 I.T.E.	FCC ID : A3LCLP315W (Printer) FCC ID : A3LSWL-2900U (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-SWL2900U (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	MADE IN CHINA REV.00

Rating Label