

EMC TEST REPORT

Project No.	LBE20121713	Issue No.	0
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	March 13, 2012	
EUT	Type of device	Class B digital devices, peripherals	
	Equipment authorization	☐ Declaration of Conformity ☒ Certification ☐ Verification	
	FCC ID	A3LCLX6260FW	
	Kind of product	Color Multi Function Printer	
	Model No.	CLX-6260FW	
		Variant Model No.	CLX-6260ND, CLX-6260FD, CLX-6260FR
	Manufacturer	1) Samsung Electronics Co., Ltd. 259, Gongdan-Dong, Gumi-City, Gyeongsangbuk-Do, Korea 730-030 2) Samsung Electronics (Shandong) Digital Printing Co., Ltd. 264209, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China 3) Weihai Shin Heung Digital Electronics Co., Ltd. 98, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China 4) Intops : Intops (Weihai) Electronics Co., Ltd. Keji Road-268-1, Weihai Hi-Tech, Industries Development Zone , Shandong Province , CHINA	
Applied Standards		FCC Part 15, Subpart B / ANSI C63.4-2009 ICES-003 issue 4	
Test Period		March 13, 2012 ~ March 19, 2012	
Issue date		March 26, 2012	
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-Man Lee 		Reviewed by : Tae Young Jang 	
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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Appendix – EUT photography

1. Summary of test results

1.1 Revision history

No.	Revised detailed information
Issue 0	There are no revisions and this version is basic test report.

1.2 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result
☒	Conducted Disturbance (Mains Port)	FCC Part 15, Subpart B / ANSI C63.4-2009 ICES-003 issue 4	Complied
☒	Radiated Disturbance		Complied

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 EMC testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

3. Test Setup configuration

3.1 Test Peripherals

The cables used for these peripherals are either permanently attached by the peripheral manufacturer or coupled with an assigned cable as defined below.

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 DoC
Color Multi Function Printer	CLX-6260FW	-	Samsung	Certification
Note book Computer	Venice	-	Dell	DoC
Adapter	HP-OQ065B83	CN-0N2765-47890-441-0249	Dell	DoC
Telephone	SP-F209	-	Samsung	DoC
Headset	COV903	-	COSY	DoC
USB Mouse	SMH-210U	M2UWTAKQA46984V	S&J	DoC

3.2 EUT operating mode

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

Operating Mode 1	DADF Copy Mode
Operating Mode 2	Standby Mode
Operating Mode 3	USB Printing 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
Power	1.8	No	For Note PC
USB	1.8	Yes	From Note PC to EUT
Ethernet	10.0	No	From EUT to HUB
TEL	10.0	No	From EUT to K/P system
TEL	2.0	No	From EUT to Telephone

3.5 EUT Description

The following features describe EUT represented by this report:

Item	Specification	Remarks
Processor	CHORUS3N (533MHz)	-
Standard System memory	512MB DDR3 on all configurations (Default) 1GB(max) Customer Installable Option	-
Resolution	True 1200x600dpi (Effective 2400 x 1200dpi)	-
Copy Quality mode	mono : 600x600dpi(ADF) ,600x600dpi (Platen) color : 300x300dpi(ADF) ,600x600dpi (Platen)	-
Paper Handling	Paper Tray(standard) 250 Sheets 2nd Tray(optional) 520 Sheets Bypass Tray 50 Sheets	-
Power Rating	110~127 VAC, 8A	-
Power Consumption	Power save mode : 1.5 Watts Stand by mode : 12 Watts Printing simplex : 850 Watts ADF Copy mode (1-1 copy, Tray2) : 850 Watts	-
Printer Language	SPLC, PCL5Ce, PCL6C, PS3, PDF V1.7	-
Interfaces	USB2.0, Network, FAX, WI-FI	-
OS compatibility	Windows 95/98/2000/NT4.0/Win-ME/XP/Longhorn/XP 64bit/ Citrix MAC OS 8, 9, X 10.2, X 10.3 & Higher Unix/Linux	-
Modes of Operation	USB Printing, ADF Scan, Duplex ADF Copy, 1200dpi Printing, Fax RX, Fax TX, Network Printing, Duplex Printing, PC Scan	-
Intended Class for Emissions	Class B	

3.6 Clock Frequencies

Kind of Clocks	Frequency [MHz]	Kind of Clocks	Frequency [MHz]
Main Source	12	Video	27.3
CPU Internal	533	DDR3	377
USB Device	12	OPE	800
CIS	8.4		

3.7 Test configuration and condition

Item	Model Name	P/N	Manufacturer
Board	KARS	REV 0.5	Samsung
SMPS	PSPN-Type3R-V1	REV 0.9	DONG YANG E&P
	PSPN-Type3R-V1	REV 0.9	SUNGHO
HVPS	HVPS	REV2.1	SYS HITEK SUNGHO DONG YANG E&P
Toner Cartridge	CLT-C506L, CLT-C506S CLT-M506L, CLT-M506S CLT-Y506L, CLT-Y506S CLT-K506L, CLT-K506S	-	Samsung
Memory	DDR3	-	Samsung,NANYA,ELPIDA

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.

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

Three different types of SMPS, Dongyang, Sungho were applied during testing.

Each SMPS was installed for testing, tested and reported.

- Configuration 1 : Dongyang SMPS was applied.
- Configuration 2 : Sungho SMPS was applied.

- 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.)

3.8.1 Emission

Test type		Measurement uncertainty (C.L. 95 %, k = 2)
Conducted disturbance	Main terminal	3.30 dB
Radiated Disturbance (30MHz ~ 1GHz)	Horizontal (30 ~ 300 MHz)	5.26 dB
	Horizontal (300 ~ 1000 MHz)	4.68 dB
	Vertical (30 ~ 300 MHz)	5.27 dB
	Vertical (300 ~ 1000 MHz)	4.76 dB
Radiated Disturbance (1GHz ~ 6GHz)	Horizontal	3.40 dB
	Vertical	3.12 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 the mains ports of class B ITE

Frequency range Limits MHz	Resolution Bandwidth	Limits dB(μV)	
		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 instrumentation	Manufacturer	Model name	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Receiver	R&S	ESIB 26	100287	2011-07-30	12
Two-Line V-Network	R&S	ENV216	100456	2011-09-28	12
Two-Line V-Network	R&S	ESH3-Z5	831887/004	2011-07-27	12
Test software	R&S	EMC32	Ver 5.20.2	-	-

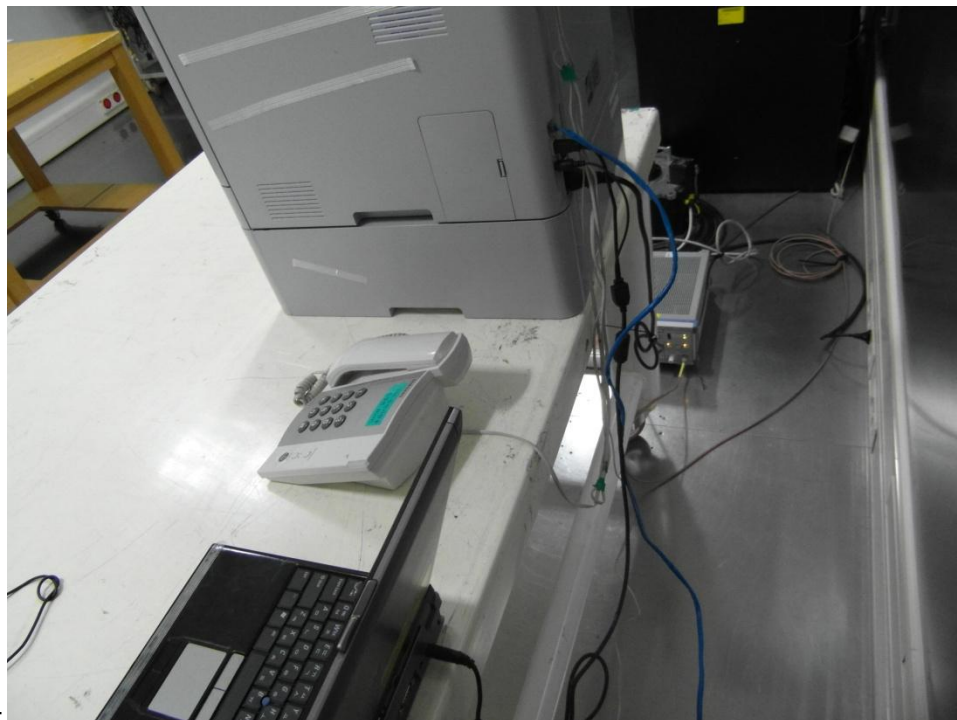
4.1.2 Temperature and humidity condition

Test date	March 19, 2012		Test engineer		Young-Man Lee	
Climate condition	Ambient temperature	24.6 °C	Relative humidity	41 %	Atmospheric pressure	101.4 kPa
Test place	Shielded Room #1					

4.1.3 Photograph of Test Setup



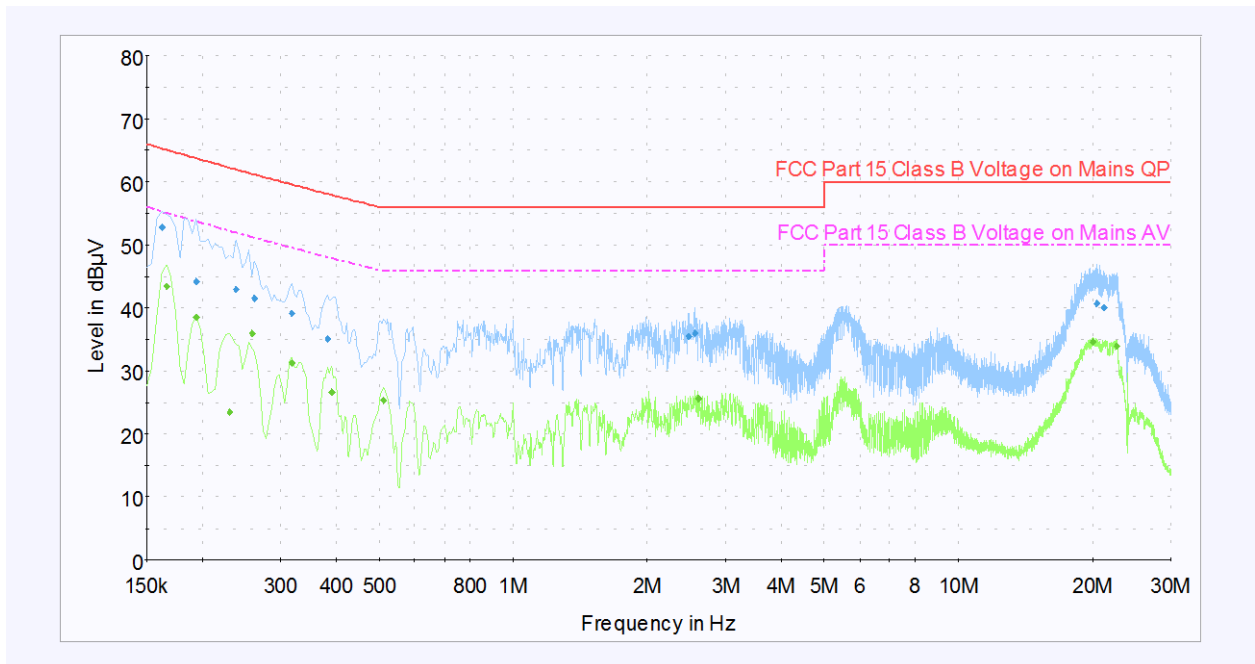
Front



Rear

4.1.4 Test results (mains port)

- Configuration 1 : DADF Copy Mode (Dongyang SMPS)



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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.162	52.8	9.0	L1	9.7	12.5	65.3
0.194	44.2	9.0	N	9.7	19.5	63.7
0.238	42.9	9.0	N	9.7	19.1	62.0
0.262	41.6	9.0	N	9.7	19.6	61.2
0.318	39.1	9.0	L1	9.7	20.5	59.6
0.382	35.0	9.0	L1	9.7	23.1	58.1
2.480	35.4	9.0	L1	9.7	20.6	56.0
2.564	35.9	9.0	L1	9.7	20.1	56.0
20.456	40.6	9.0	N	10.2	19.4	60.0
21.236	40.0	9.0	N	10.2	20.0	60.0

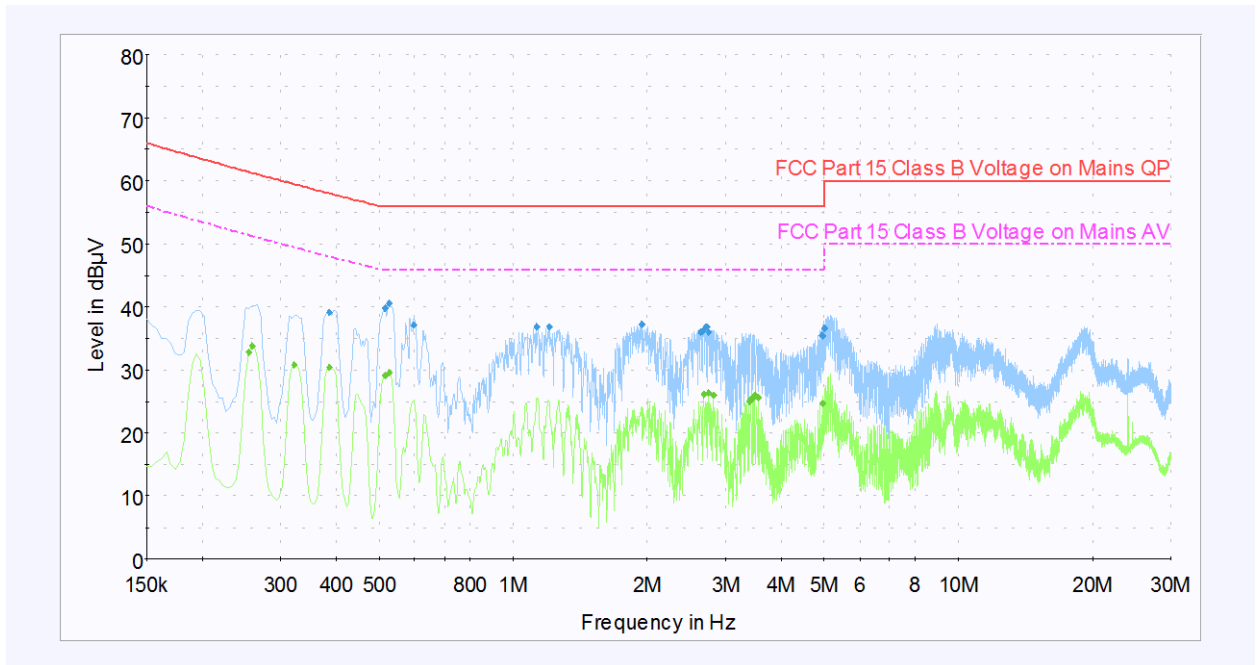
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.166	43.4	9.0	L1	9.7	11.7	55.1
0.194	38.4	9.0	N	9.7	15.3	53.7
0.230	23.4	9.0	N	9.7	28.8	52.2
0.258	35.9	9.0	N	9.7	15.4	51.3
0.318	31.2	9.0	N	9.7	18.3	49.5
0.390	26.6	9.0	L1	9.7	21.3	47.9
0.510	25.3	9.0	N	9.7	20.7	46.0
2.600	25.5	9.0	L1	9.7	20.5	46.0
20.00	34.6	9.0	N	10.1	15.4	50.0
22.704	33.9	9.0	L1	10.0	16.1	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)

- **Configuration 1 : Standby Mode (Dongyang SMPS)**



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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.386	39.1	9.0	L1	9.7	18.9	58.0
0.514	39.7	9.0	L1	9.7	16.3	56.0
0.526	40.5	9.0	L1	9.7	15.5	56.0
0.598	37.0	9.0	N	9.7	19.0	56.0
1.128	36.9	9.0	N	9.7	19.1	56.0
1.204	36.9	9.0	N	9.7	19.1	56.0
1.940	37.2	9.0	N	9.7	18.8	56.0
2.632	36.0	9.0	L1	9.7	20.0	56.0
2.656	36.0	9.0	L1	9.7	20.0	56.0
2.696	36.7	9.0	L1	9.7	19.3	56.0
2.720	36.9	9.0	L1	9.7	19.1	56.0
2.744	36.0	9.0	L1	9.7	20.0	56.0
4.932	35.4	9.0	N	9.7	20.6	56.0
4.960	35.3	9.0	L1	9.7	20.7	56.0
4.996	36.6	9.0	N	9.7	19.4	56.0

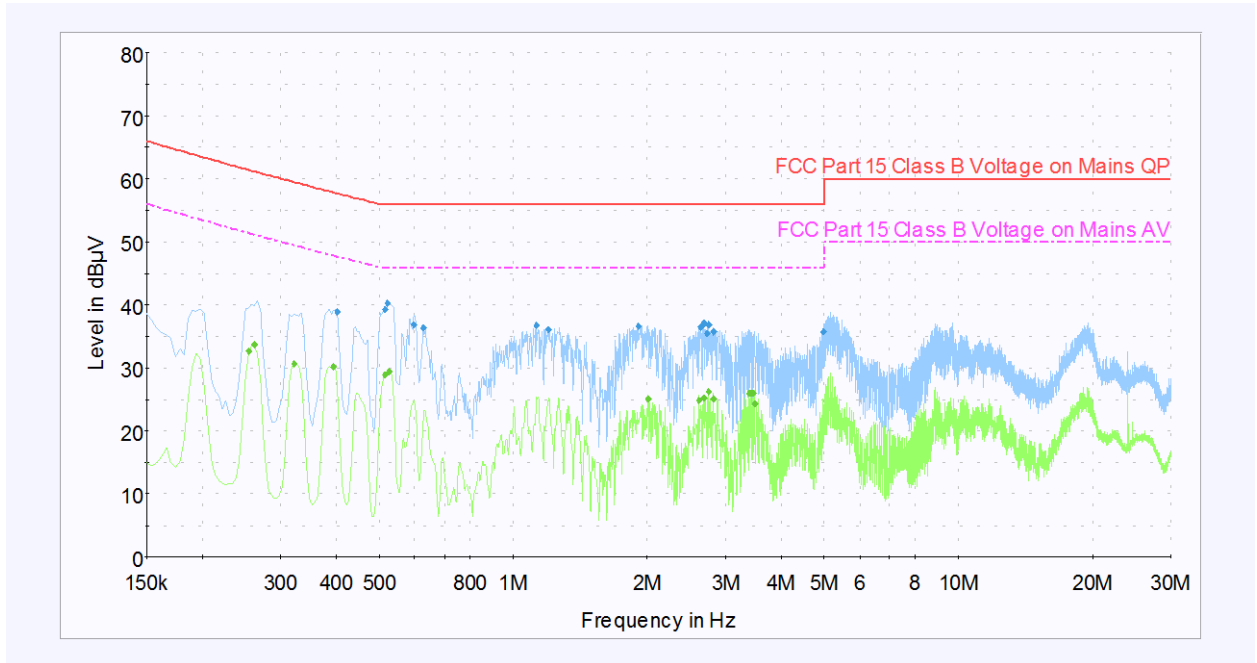
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.254	32.8	9.0	L1	9.7	18.6	51.4
0.258	33.8	9.0	L1	9.7	17.5	51.3
0.322	30.7	9.0	L1	9.7	18.7	49.4
0.386	30.4	9.0	L1	9.7	17.6	48.0
0.514	29.1	9.0	L1	9.7	16.9	46.0
0.526	29.5	9.0	L1	9.7	16.5	46.0
2.676	26.1	9.0	L1	9.7	19.9	46.0
2.744	26.3	9.0	L1	9.7	19.7	46.0
2.808	25.9	9.0	N	9.7	20.1	46.0
3.388	25.0	9.0	N	9.7	21.0	46.0
3.416	25.3	9.0	L1	9.7	20.7	46.0
3.452	25.5	9.0	L1	9.7	20.5	46.0
3.480	26.0	9.0	L1	9.7	20.0	46.0
3.544	25.6	9.0	L1	9.7	20.4	46.0
4.960	24.6	9.0	L1	9.7	21.4	46.0

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)

- **Configuration 1 : USB Printing Mode (Dongyang SMPS)**



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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.402	38.8	9.0	L1	9.7	18.9	57.7
0.514	39.3	9.0	N	9.7	16.7	56.0
0.522	40.3	9.0	L1	9.7	15.7	56.0
0.598	36.9	9.0	N	9.7	19.1	56.0
0.626	36.3	9.0	N	9.7	19.7	56.0
1.128	36.7	9.0	N	9.7	19.3	56.0
1.196	36.0	9.0	L1	9.7	20.0	56.0
1.908	36.6	9.0	N	9.7	19.4	56.0
2.632	36.4	9.0	L1	9.7	19.6	56.0
2.656	36.7	9.0	L1	9.7	19.3	56.0
2.676	37.1	9.0	L1	9.7	18.9	56.0
2.724	35.4	9.0	L1	9.7	20.6	56.0
2.744	36.8	9.0	L1	9.7	19.2	56.0
2.812	35.7	9.0	L1	9.7	20.3	56.0
4.980	35.7	9.0	L1	9.7	20.3	56.0

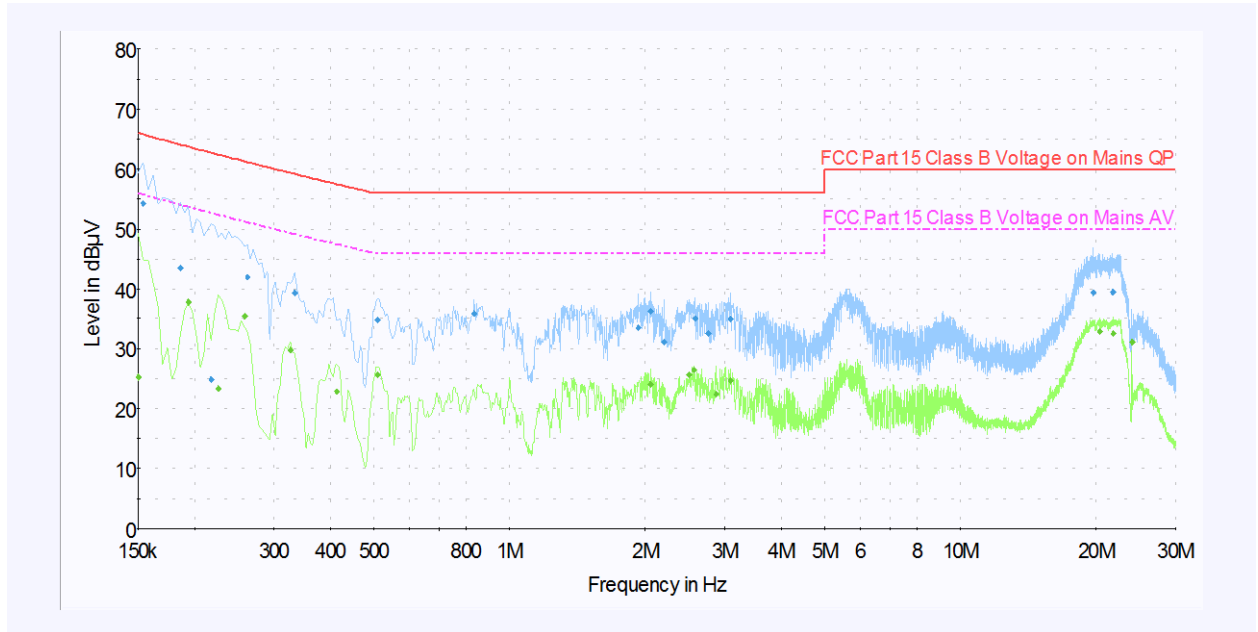
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.254	32.6	9.0	L1	9.7	18.8	51.4
0.262	33.6	9.0	L1	9.7	17.5	51.1
0.322	30.7	9.0	L1	9.7	18.7	49.4
0.394	30.2	9.0	L1	9.7	17.6	47.8
0.514	28.8	9.0	N	9.7	17.2	46.0
0.526	29.4	9.0	L1	9.7	16.6	46.0
2.008	25.1	9.0	N	9.7	20.9	46.0
2.612	24.8	9.0	L1	9.7	21.2	46.0
2.68	25.2	9.0	L1	9.7	20.8	46.0
2.744	26.2	9.0	N	9.7	19.8	46.0
2.812	25.1	9.0	L1	9.7	20.9	46.0
3.388	26.0	9.0	L1	9.7	20.0	46.0
3.416	26.0	9.0	L1	9.7	20.0	46.0
3.452	26.0	9.0	L1	9.7	20.0	46.0
3.484	24.3	9.0	L1	9.7	21.7	46.0

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)

- **Configuration 2 : Standby Mode (Sungho SMPS)**



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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.154	54.3	9.0	N	9.7	11.5	65.8
0.186	43.6	9.0	N	9.7	20.5	64.1
0.218	24.9	9.0	L1	9.7	37.8	62.7
0.262	42.0	9.0	L1	9.7	19.2	61.2
0.334	39.3	9.0	N	9.7	19.9	59.2
0.510	34.8	9.0	L1	9.7	21.2	56.0
0.834	35.9	9.0	N	9.7	20.1	56.0
1.928	33.5	9.0	L1	9.7	22.5	56.0
2.052	36.2	9.0	L1	9.7	19.8	56.0
2.204	31.1	9.0	L1	9.7	24.9	56.0
2.584	35.0	9.0	L1	9.7	21.0	56.0
2.756	32.6	9.0	L1	9.7	23.4	56.0
3.088	34.9	9.0	L1	9.7	21.1	56.0
19.708	39.3	9.0	N	10.1	20.7	60.0
21.776	39.4	9.0	N	10.2	20.6	60.0

Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.150	25.3	9.0	L1	9.7	30.7	56.0
0.194	37.8	9.0	N	9.7	15.9	53.7
0.226	23.4	9.0	L1	9.7	29.0	52.4
0.258	35.4	9.0	N	9.7	15.9	51.3
0.326	29.8	9.0	L1	9.7	19.5	49.3
0.414	22.9	9.0	L1	9.7	24.5	47.4
0.510	25.6	9.0	N	9.7	20.4	46.0
2.056	24.1	9.0	L1	9.7	21.9	46.0
2.504	25.7	9.0	L1	9.7	20.3	46.0
2.568	26.5	9.0	L1	9.7	19.5	46.0
2.868	22.5	9.0	L1	9.7	23.5	46.0
3.084	24.7	9.0	L1	9.7	21.3	46.0
20.364	32.9	9.0	N	10.2	17.1	50.0
21.856	32.5	9.0	N	10.2	17.5	50.0
23.992	31.1	9.0	N	10.2	18.9	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	Resolution Bandwidth	Quasi-peak Limits dB μ V/m
		Class B
30 to 230	120 kHz	30
230 to 1 000	120 kHz	37
NOTE 1 The lower limit shall apply at the transition frequency		
NOTE 2 Additional provisions may be required for cases where interference occurs.		

Peak measurements were made over the changeable frequency range 1 GHz to 40 GHz or 5th in accordance with internal maximum operating frequency at a measurement distance of 3 m for the following antenna and turntable arrangements:

Antenna Height (cm)	Antenna Polarisation	Turntable position (degrees)
100 ~ 400	Horizontal, Vertical	Continuous

Above 1 GHz, peak detector function mode is used with a resolution bandwidth of 1 MHz and a video bandwidth of 1 MHz.

Limits for above 1GHz radiated disturbance of ITE at a measuring distance of 3 m

Class	Limits - dB(μV/m)	
	Peak	Average
B	74	54
Average limit 500, $20 \log 500 = 53.979 \text{ dB} \approx 54 \text{ dB}$		

Measurements within 20 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using a average detector.

Results checked manually; and points close to the limit line were re-measured.

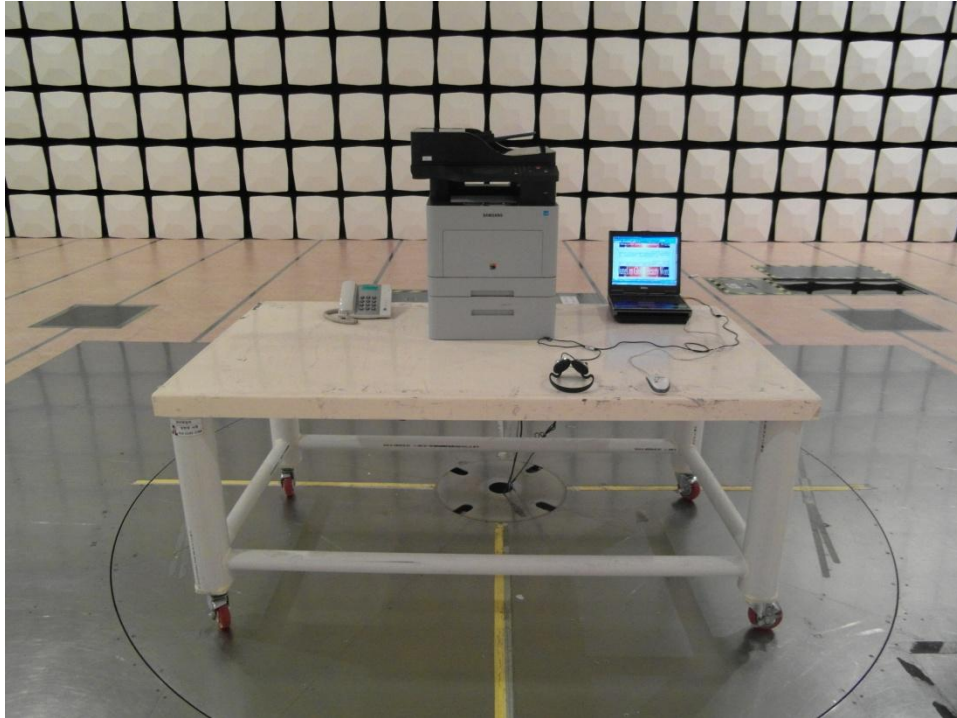
4.2.1 Test instrumentation

Test instrumentation	Manufacturer	Model name	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Bi-log Antenna	Schaffner	CBL6112D	22602	2010-04-21	24
Bi-log Antenna	Schaffner	CBL6112D	22604	2010-04-21	24
Horn Antenna	R&S	HF907	100016	2011-06-15	24
Test Receiver	R&S	ESCI	100369	2011-08-03	12
Test Receiver	R&S	ESCI	100370	2011-05-29	12
Test Receiver	R&S	ESIB 26	100288	2011-06-16	12
Amplifier	Sonoma	310N	185861	2011-04-07	12
Amplifier	Sonoma	310N	251676	2011-04-07	12
Preamplifier	R&S	SCU18	10001	2011-05-03	12
Antenna Mast	INN CO	MA4000	-	-	-
Antenna Mast	INN CO	MA4000	-	-	-
Mast Controller	INN CO	CO2000	-	-	-
Test software	TOYO	EP5/RE	VER 3.10.20	-	-
RF Selector	TOYO	NS4900	-	-	-

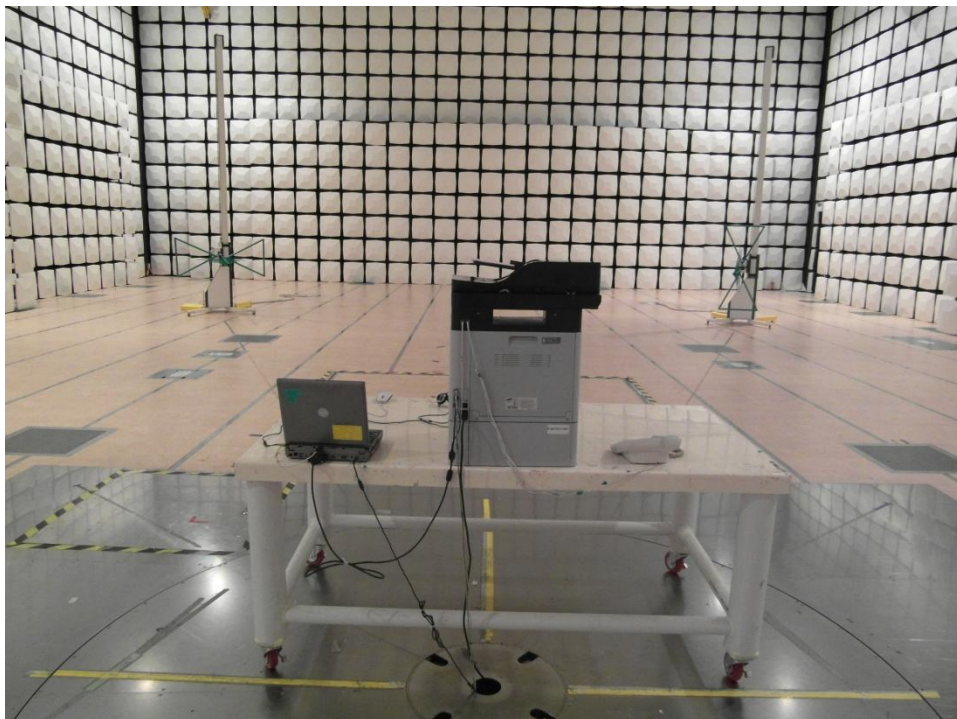
4.2.2 Temperature and humidity condition

Test date	March 13, 2012		Test engineer		Young-Man Lee	
Climate condition	Ambient temperature	21.3 °C	Relative humidity	44 %	Atmospheric pressure	101.0 kPa
Test place	10m Semi-Anechoic Chamber #1					

4.2.3 Photograph of Test Setup(30 ~ 1 GHz)

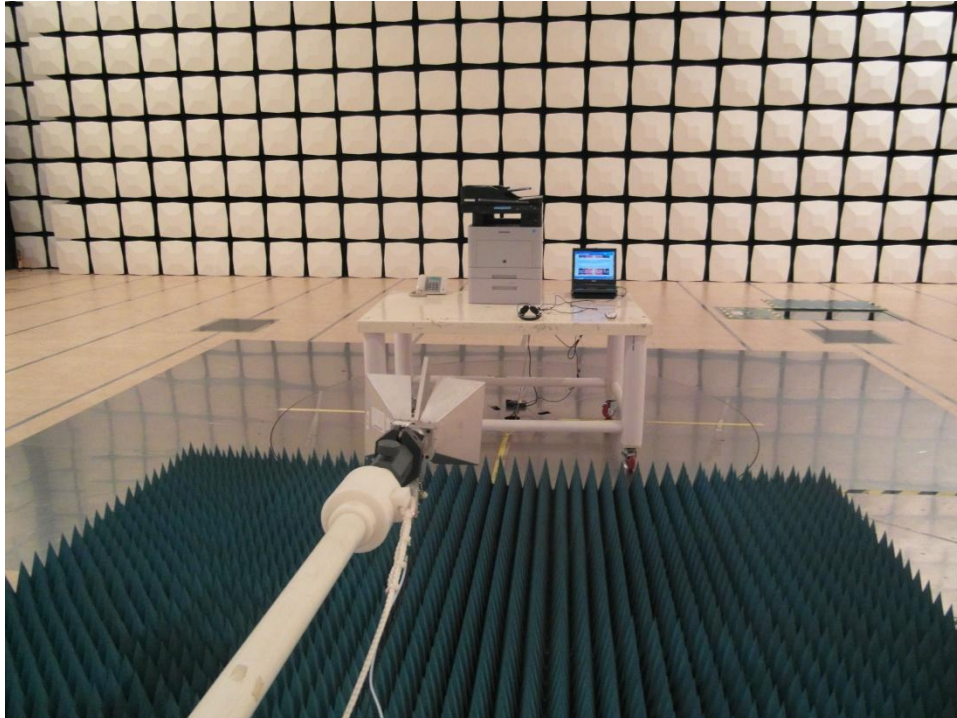


Front



Rear

4.2.4 Photograph of Test Setup(1 ~ 5 GHz)



Front



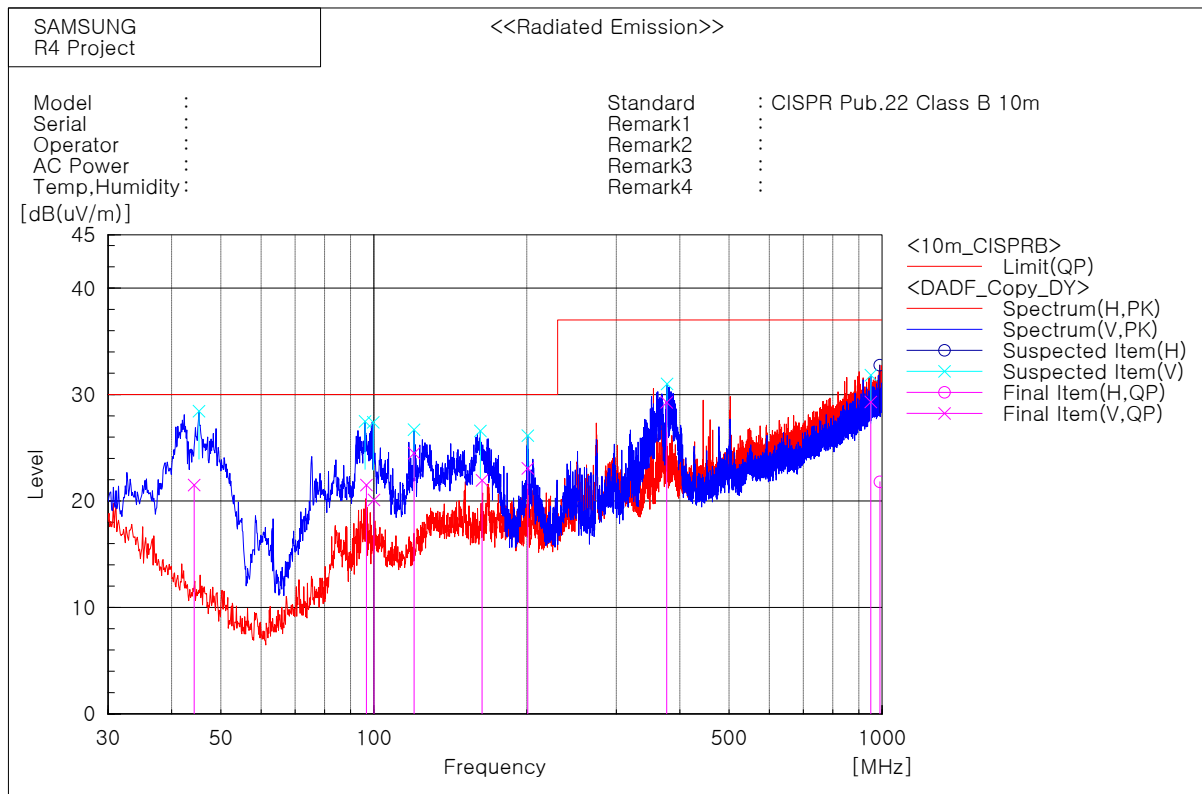
Rear

4.2.5 Test results

4.2.5.1 Below 1GHz results

- Configuration 1 : DADF Copy Mode (Dongyang SMPS)

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]
44.294	V	42.0	-20.5	21.5	30.0	8.5	101	0.9
96.661	V	40.5	-19.0	21.5	30.0	8.5	202	94.9
100.044	V	38.5	-18.4	20.1	30.0	9.9	100	188.4
120.008	V	41.6	-17.1	24.5	30.0	5.5	101	63.4
163.303	V	40.8	-18.9	21.9	30.0	8.1	101	0.9
200.845	V	42.7	-19.6	23.1	30.0	6.9	101	354.5
376.793	V	40.6	-11.3	29.3	37.0	7.7	101	40.5
950.263	V	29.9	-0.6	29.3	37.0	7.7	101	241.6
990.484	H	21.9	-0.1	21.8	37.0	15.2	300	58.3

Note) Receiving antenna polarization : Horizontal and/or Vertical

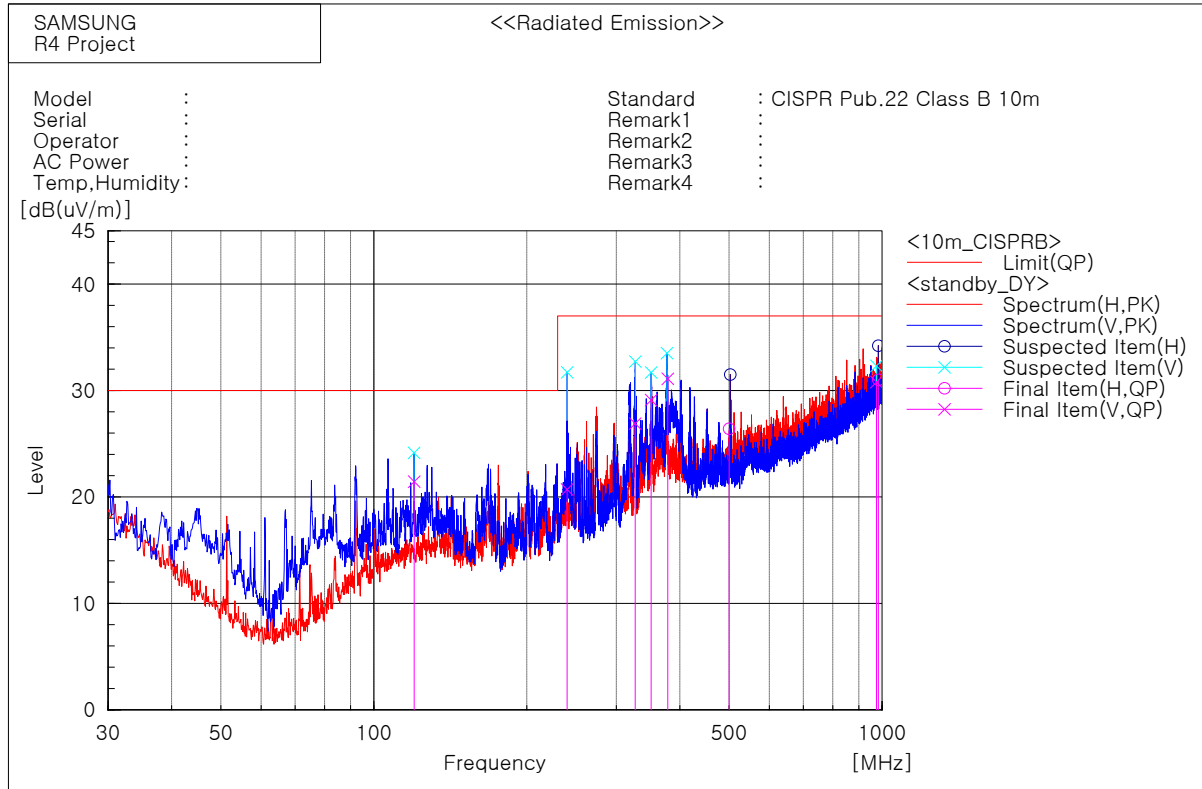
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

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

- **Configuration 1 : Standby Mode (Dongyang SMPS)**

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]
120.048	V	38.5	-17.1	21.4	30.0	8.6	101	359.0
240.048	V	37.5	-16.8	20.7	37.0	16.3	101	357.7
326.740	V	39.9	-13.0	26.9	37.0	10.1	110	32.4
351.191	V	41.2	-12.1	29.1	37.0	7.9	103	354.9
378.619	V	42.3	-11.2	31.1	37.0	5.9	105	41.3
500.119	H	34.7	-8.3	26.4	37.0	10.6	319	193.3
974.826	V	30.9	-0.1	30.8	37.0	6.2	101	235.4
983.020	H	31.3	-0.3	31.0	37.0	6.0	101	179.9

Note) Receiving antenna polarization : Horizontal and/or Vertical

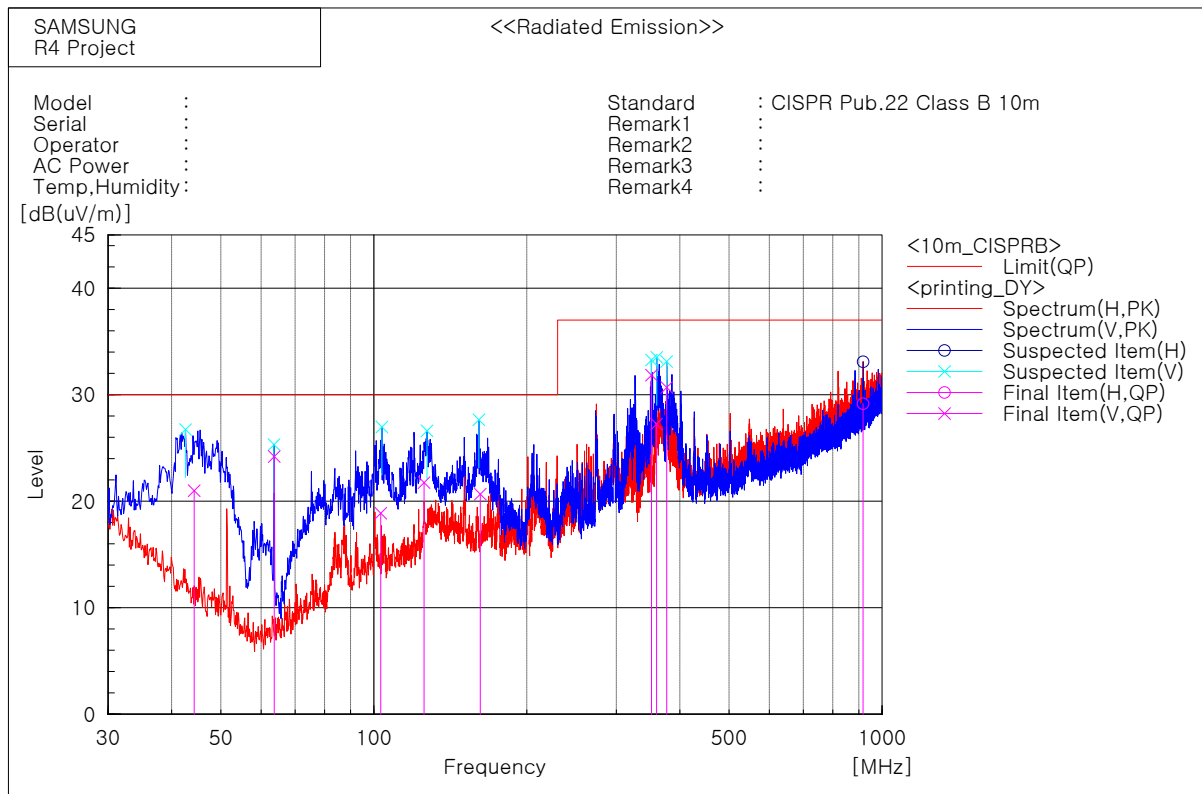
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

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

- **Configuration 1 : USB printing Mode (Dongyang SMPS)**

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]
44.303	V	41.5	-20.5	21.0	30.0	9.0	101	0.9
63.677	V	49.2	-25.0	24.2	30.0	5.8	110	111.5
103.176	V	37.1	-18.2	18.9	30.0	11.1	101	26.7
125.537	V	38.6	-16.9	21.7	30.0	8.3	101	0.9
161.934	V	39.5	-18.8	20.7	30.0	9.3	101	351.2
351.720	V	43.8	-12.0	31.8	37.0	5.2	101	323.2
359.947	V	39.1	-11.8	27.3	37.0	9.7	101	7.7
917.496	H	31.0	-1.9	29.1	37.0	7.9	398	79.0

Note) Receiving antenna polarization : Horizontal and/or Vertical

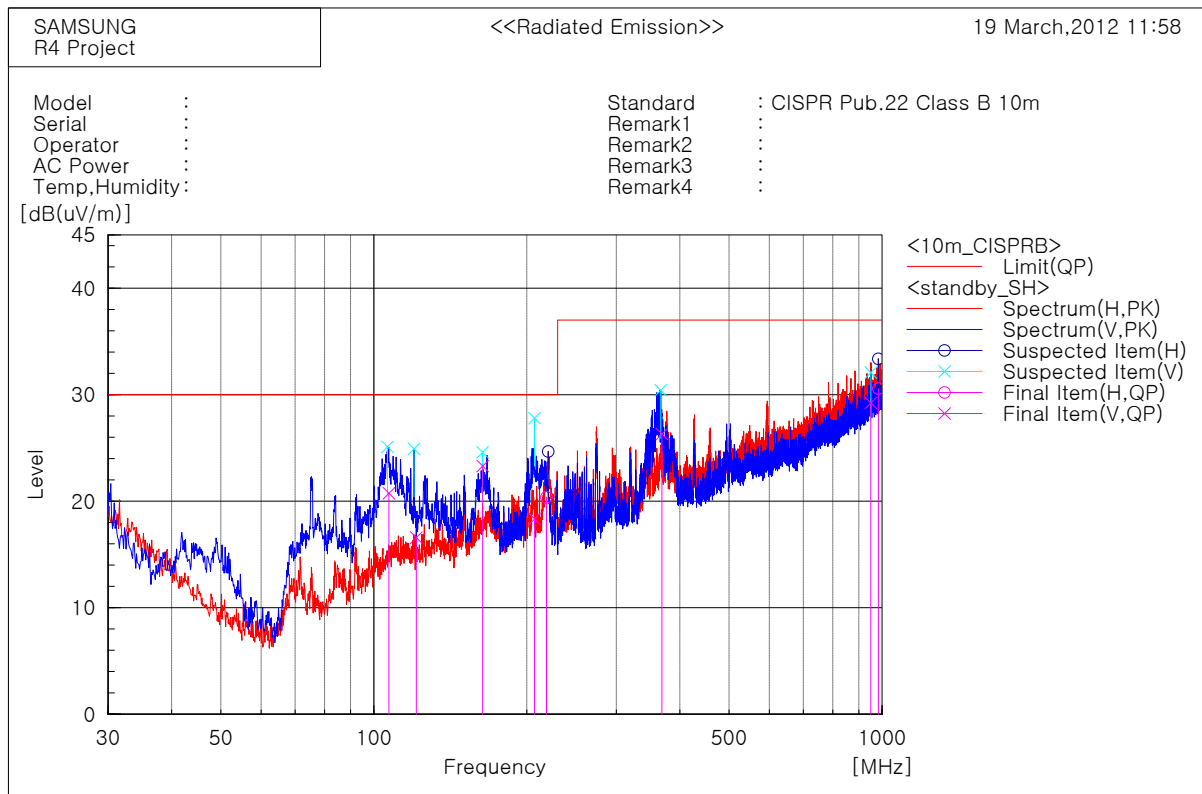
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

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

- **Configuration 2 : Standby Mode (Sungho SMPS)**

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]
107.048	V	38.4	-17.7	20.7	30.0	9.3	101	171.1
121.202	V	33.5	-16.9	16.6	30.0	13.4	101	196.7
163.706	V	42.2	-18.9	23.3	30.0	6.7	101	3.7
207.122	V	37.6	-19.3	18.3	30.0	11.7	202	358.3
218.573	H	39.2	-18.8	20.4	30.0	9.6	399	29.2
368.749	V	37.7	-11.4	26.3	37.0	10.7	101	312.3
950.252	V	29.8	-0.6	29.2	37.0	7.8	400	354.3
983.032	H	30.9	-0.3	30.6	37.0	6.4	101	217.4

Note) Receiving antenna polarization : Horizontal and/or Vertical

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

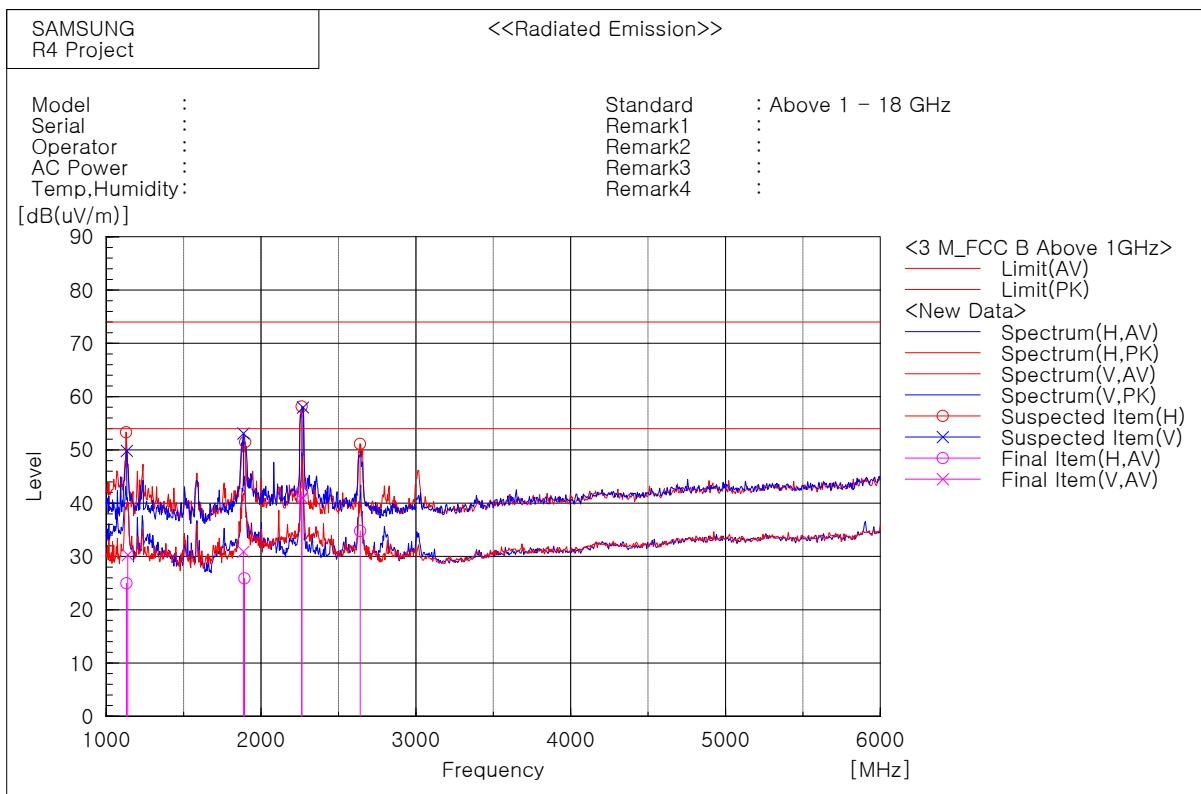
Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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

4.2.5.2 Above 1GHz results(1 ~ 5 GHz)

- Configuration 1 : DADF Copy Mode (Dongyang SMPS)

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]
1128.257	H	63.9	-10.6	53.3	74.0	20.7	108	15.7
1132.265	V	60.3	-10.5	49.8	74.0	24.2	108	120.2
1885.772	V	59.9	-6.8	53.1	74.0	20.9	108	82.7
1897.796	H	58.1	-6.6	51.5	74.0	22.5	108	82.7
2262.525	H	63.5	-5.4	58.1	74.0	15.9	108	126.0
2270.541	V	63.5	-5.5	58.0	74.0	16.0	108	79.8
2639.279	H	54.6	-3.5	51.1	74.0	22.9	108	135.9

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]
1130.321	H	35.6	-10.6	25	54.0	29.0	108	16.2
1138.738	V	40.8	-10.5	30.3	54.0	23.7	108	120.7
1885.391	V	37.8	-6.9	30.9	54.0	23.1	108	82.1
1892.526	H	32.6	-6.7	25.9	54.0	28.1	108	82.1
2262.786	H	47.5	-5.4	42.1	54.0	11.9	108	125.3
2262.946	V	46.4	-5.4	41	54.0	13.0	108	80.3
2640.461	H	38.3	-3.5	34.8	54.0	19.2	108	135.4

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

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

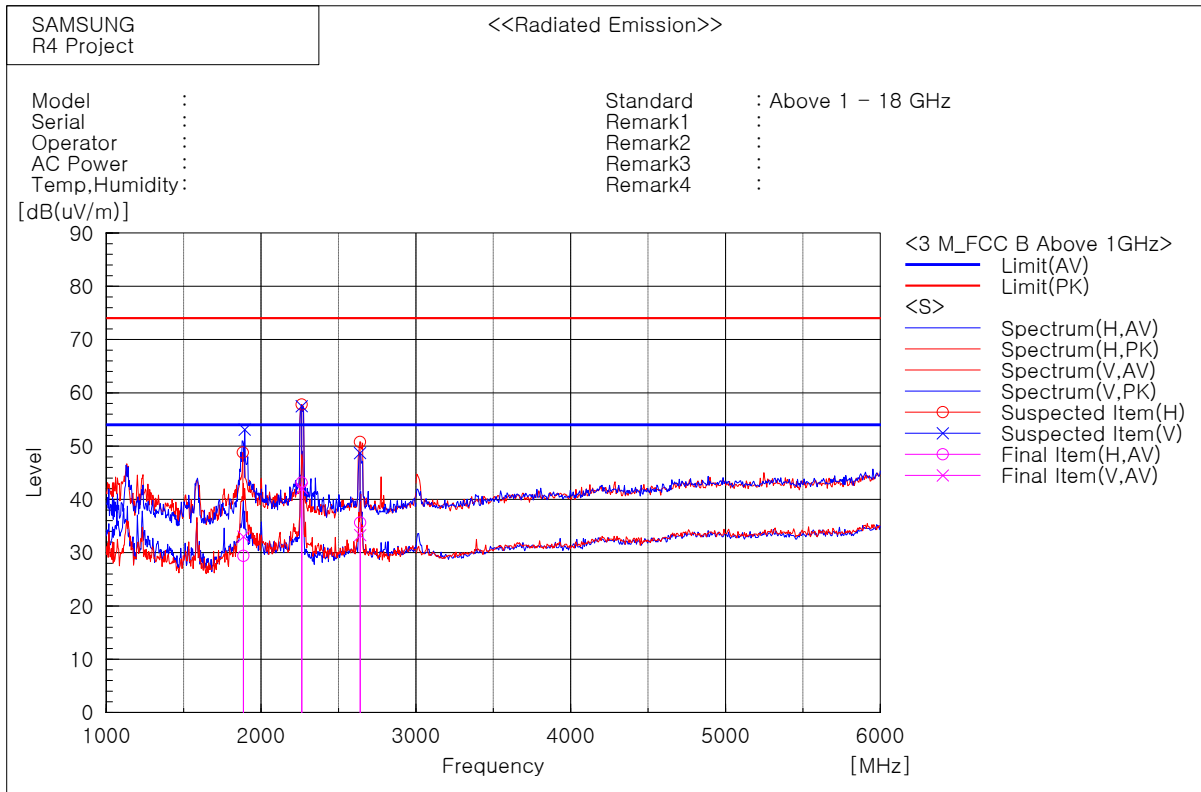
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

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

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

- **Configuration 1 : Standby Mode (Dongyang SMPS)**

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]
1881.764	H	55.7	-6.9	48.8	74.0	25.2	108	126.3
1893.788	V	59.8	-6.7	53.1	74.0	20.9	108	77.0
2262.525	H	63.2	-5.4	57.8	74.0	16.2	108	123.3
2262.525	V	62.9	-5.4	57.5	74.0	16.5	108	82.0
2639.279	H	54.3	-3.5	50.8	74.0	23.2	108	131.2
2639.279	V	52.2	-3.5	48.7	74.0	25.3	108	135.2

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]
1885.832	V	39.8	-6.8	33.0	54.0	21.0	108	77.5
1885.832	H	36.2	-6.8	29.4	54.0	24.6	108	127.0
2262.545	H	48.6	-5.4	43.2	54.0	10.8	108	122.5
2263.146	V	47.5	-5.4	42.1	54.0	11.9	108	82.6
2640.021	V	36.8	-3.5	33.3	54.0	20.7	108	134.7
2640.061	H	39.1	-3.5	35.6	54.0	18.4	108	130.7

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

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

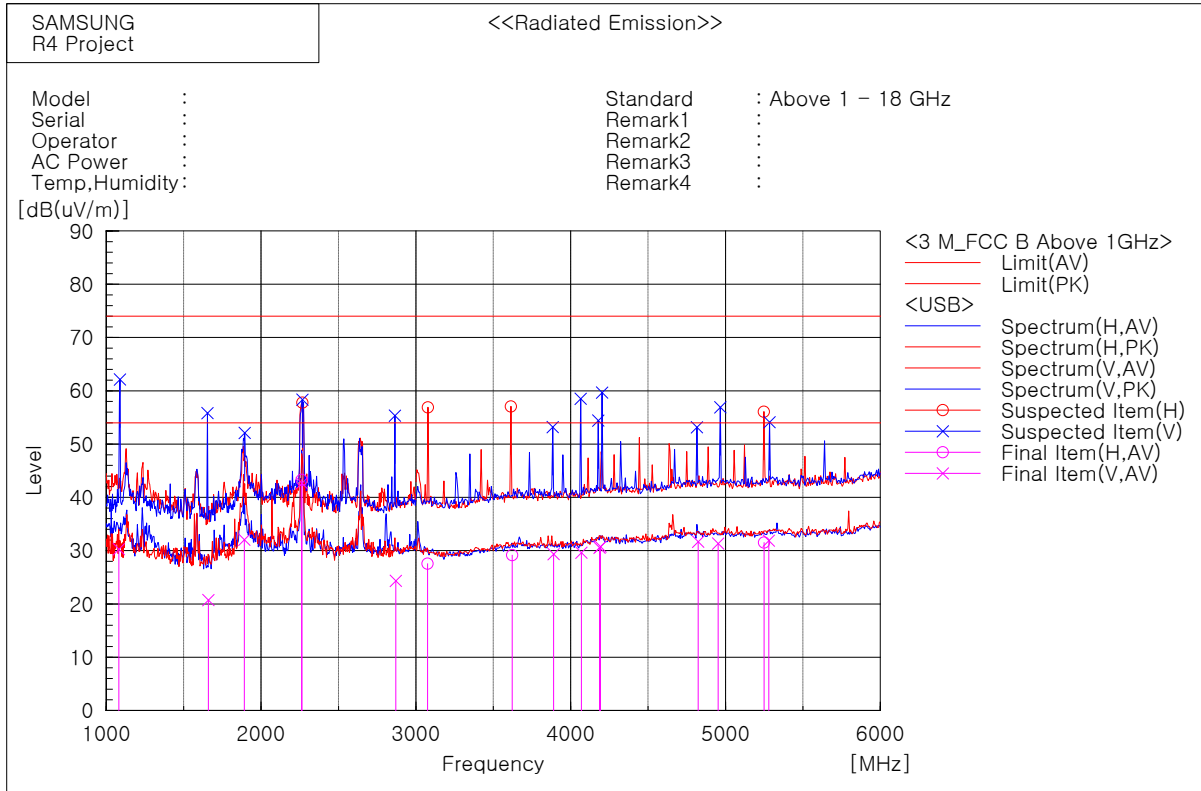
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

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

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

- Configuration 1 : USB printing Mode (Dongyang SMPS)

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]
1088.176	V	72.8	-10.7	62.1	74.0	11.9	108	213.8
1653.307	V	64.8	-9	55.8	74.0	18.2	108	349.7
1893.788	V	58.8	-6.7	52.1	74.0	21.9	108	72.8
2266.533	V	63.8	-5.4	58.4	74.0	15.6	108	77.7
2266.533	H	63.2	-5.4	57.8	74.0	16.2	108	123.3
2863.728	V	59.1	-3.7	55.4	74.0	18.6	108	348.5
3078.156	H	59.5	-2.6	56.9	74.0	17.1	108	277.4
3613.227	H	58.1	-1.0	57.1	74.0	16.9	108	167.0
3883.768	V	53.9	-0.7	53.2	74.0	20.8	108	275.7
4064.128	V	58.6	-0.1	58.5	74.0	15.5	108	357.1
4178.357	V	53.4	1.0	54.4	74.0	19.6	108	275.7
4202.405	V	58.7	1.0	59.7	74.0	14.3	108	282.6
4815.631	V	50.6	2.6	53.2	74.0	20.8	108	323.1
4965.932	V	54.3	2.6	56.9	74.0	17.1	108	275.7
5248.497	H	52.8	3.3	56.1	74.0	17.9	108	237.0
5284.569	V	50.8	3.3	54.1	74.0	19.9	108	225.5

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]
1081.382	V	41.1	-10.8	30.3	54.0	23.7	108	213.2
4191.854	V	29.8	1.0	30.8	54.0	23.2	108	282.1
4068.847	V	29.6	0.0	29.6	54.0	24.4	108	356.4
2262.986	V	48.1	-5.4	42.7	54.0	11.3	108	78.2
2262.826	H	48.7	-5.4	43.3	54.0	10.7	108	122.7
3622.576	H	30.1	-0.9	29.2	54.0	24.8	108	166.4
4952.074	V	28.8	2.6	31.4	54.0	22.6	108	275.1
3075.300	H	30.2	-2.6	27.6	54.0	26.4	108	276.9
5249.609	H	28.2	3.3	31.5	54.0	22.5	108	237.4
1659.700	V	29.6	-8.9	20.7	54.0	33.3	108	349.2
2870.001	V	28.0	-3.6	24.4	54.0	29.6	108	349.2
4186.023	V	29.6	1.0	30.6	54.0	23.4	108	276.2
5280.030	V	28.6	3.3	31.9	54.0	22.1	108	226.1
3889.510	V	29.9	-0.6	29.3	54.0	24.7	108	275.1
4823.778	V	29.1	2.6	31.7	54.0	22.3	108	322.6
1891.524	V	38.8	-6.7	32.1	54.0	21.9	108	73.3

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

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

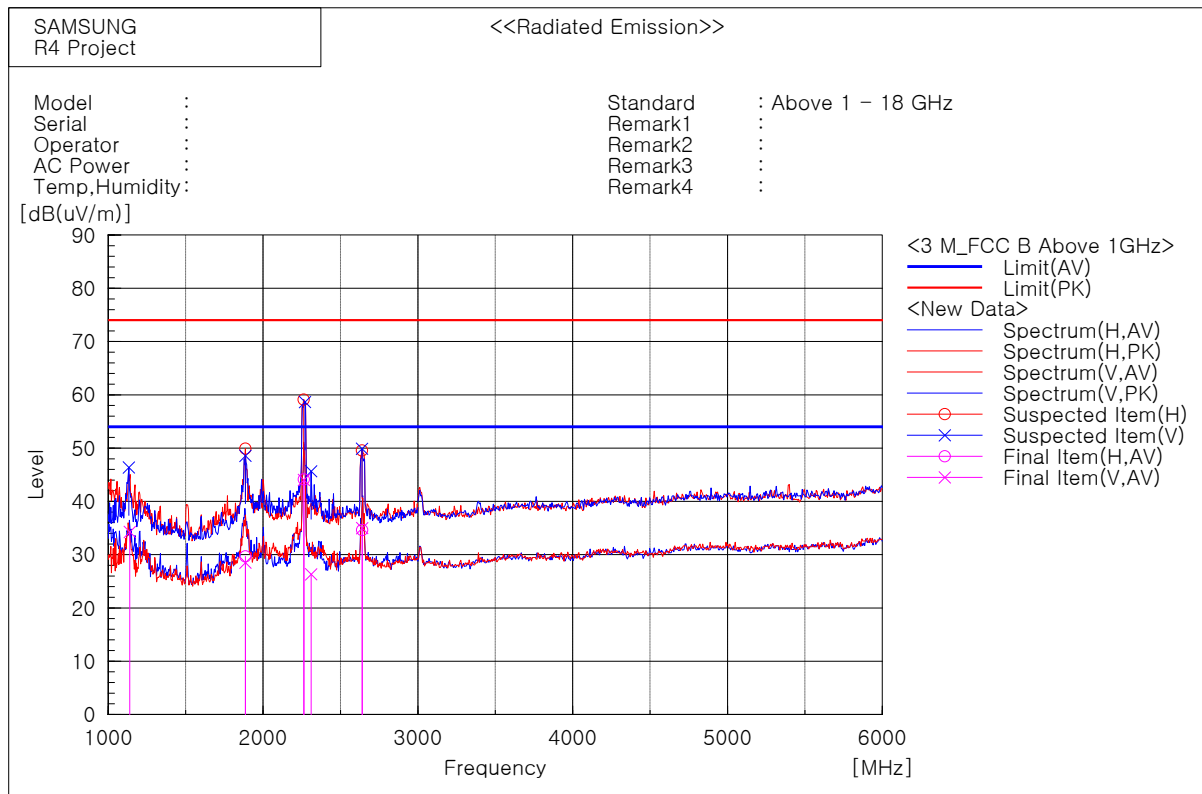
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

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

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

- **Configuration 2 : Standby Mode (Sungho SMPS)**

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]
1132.265	V	56.9	-10.5	46.4	74.0	27.6	108	100.6
1885.772	H	56.7	-6.8	49.9	74.0	24.1	108	132.9
1885.772	V	55.4	-6.8	48.6	74.0	25.4	108	77.9
2262.525	H	64.5	-5.4	59.1	74.0	14.9	108	123
2270.541	V	64.2	-5.5	58.7	74.0	15.3	108	92.7
2310.621	V	51.7	-6.0	45.7	74.0	28.3	108	89.7
2639.279	V	53.4	-3.5	49.9	74.0	24.1	108	92.7
2639.279	H	53.0	-3.5	49.5	74.0	24.5	108	53

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]
1138.698	V	44.8	-10.5	34.3	54.0	19.7	108	119.9
1885.832	H	36.5	-6.8	29.7	54.0	24.3	108	133.4
1885.953	V	35.3	-6.8	28.5	54.0	25.5	108	73.2
2263.107	V	49.4	-5.4	44.0	54.0	10.0	108	85.9
2263.146	H	49.5	-5.4	44.1	54.0	9.9	108	118.9
2309.920	V	32.3	-6.0	26.3	54.0	27.7	108	89.9
2640.020	V	38.5	-3.5	35.0	54.0	19.0	108	82.8
2640.101	H	38.1	-3.5	34.6	54.0	19.4	108	53.1

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

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)

Appendix – EUT photography



Front View



Rear View



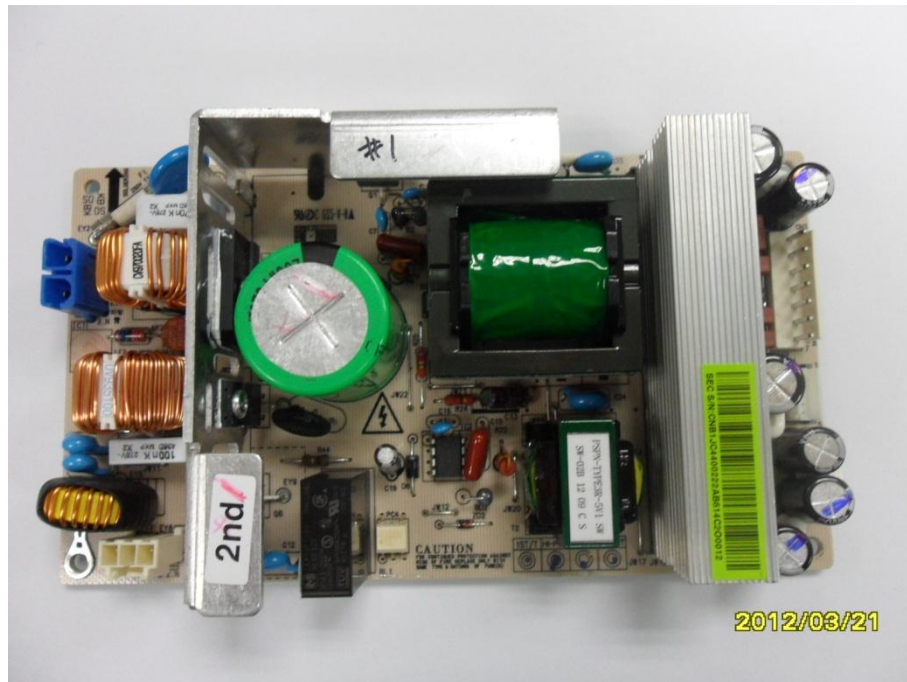
Top View



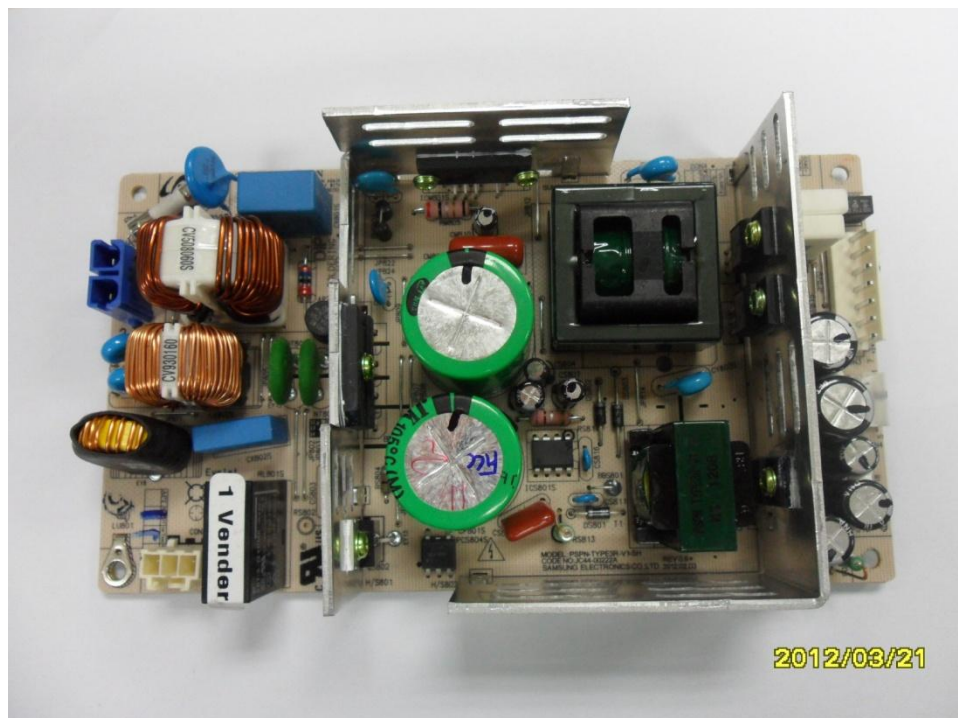
Bottom View



Inside View – Rear



SMPS(Dong yang)



SMPS(SUNG Ho)



Label Location



USOC Jack Type:RJ11C

Samsung Electronics Co., Ltd.
Suwon, Korea, 443-742
Place: M264

Model: CLX-6260FW
Volts: AC 110-127V
Hertz: 50/60 Hz
Amps: 8A
Ringer Equivalence: 0.0B
Manufactured:



3UU7
E337632
I.T.E.

FCC ID : A3LCLX6260FW

Contains FCC ID : A3LSPWB4319U

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.
- Complies with Part 68, FCC Rules.

FCC Certification No.: US: A3LFA00BCLX6260FW

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.

Contains IC : 649E-SPWB4319U

IC: 649E-CLX6260FW

Serial No.:

Made in China
Fabriqu  en Chine REV.00

Label