

EMC TEST REPORT

Project No.	LBE20154921	Issue No.	0
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	19 Chapin Rd., Building D, Pine Brook, New Jersey, United States 07058	
	Date of application	August 24, 2015	
EUT	Type of device	Class B personal computers and peripherals	
	Equipment authorization	☐ Declaration of Conformity ☒ Certification ☐ Verification	
	FCC ID	A3LSLM3015DW	
	Kind of product	Printer	
	Model No.	Xpress M3015DW	
		Variant Model No.	Xpress M3015ND, SL-M3015DW, SL-M3015ND
	Manufacturer	Samsung Electronics Co., Ltd. (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 Korea	
Applied Standards		47 CFR Part 15, Subpart B / ANSI C63.4-2009	
		ICES-003 Issue 5	
Test Period	September 2, 2015 ~ September 7, 2015		
Issue date	September 16, 2015		

Test result : Complied

The equipment under test has found to be compliant with the applied standards.
(Refer to the attached test result for more detail.)

Tested by : Young Hun Cheong

J. Y. H

Reviewed by : Tae Young, Jang

T. Y. J

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.

SAMSUNG

Samsung Electronics Co Ltd, CS & Environment Center
(Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742, Korea

Table of contents

1. Report information	
1.1 Revision history	- 3 page
1.2 Sample calculation	- 3 page
2. Summary of test results	
2.1 Emission	- 4 page
3. General Information	
3.1 Test facility	- 4 page
4. Test Setup configuration	
4.1 Test Peripherals	- 5 page
4.2 EUT operating mode	- 6 page
4.3 Details of Sampling	- 6 page
4.4 Used cable description	- 6 page
4.5 Test arrangement	- 7 page
4.6 EUT Description	- 8 page
4.7 Clock Frequencies	- 8 page
4.8 Test configuration and condition	- 9 page
4.9 Measurement uncertainty condition	- 10 page
5. Result of individual tests	
5.1 Conducted disturbance	- 11 page
5.2 Radiated disturbance	- 17 page
Appendix – EUT photographs	- 28 page

1. Report information

1.1 Revision history

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

1.2 Sample calculation (example)

1.2.1 Conducted disturbance (at 10 MHz)

- Limit = 60 dB μ V (Quasi-peak limit)
- Level (50 dB μ V) = Meter Reading (40.2 dB μ V) + Factor (9.8 dB = AMN factor 9.7 dB + Cable loss 0.1 dB)
- Margin (10 dB) = Limit (60 dB μ V) - Level (50 dB μ V) = 10 dB below limit

1.2.2 Radiated disturbance (at 100 MHz)

- Limit = 30 dB μ V/m at 10 m
- Level (20 dB μ V/m)
= Meter Reading (40 dB μ V) + Factor (- 20 dB (1/m) = antenna factor + cable loss – amplifier gain)
- Margin (10 dB) = Limit (30 dB μ V/m) - Level (20 dB μ V/m) = 10 dB below limit

2. Summary of test results

2.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result
☒	Conducted Disturbance (Mains Port)	47 CFR Part 15 Subpart B / ANSI C63.4-2009 (☐ Class A, ☒ Class B)	Complied
☒	Radiated Disturbance		Complied

- Note : These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference – Causing Equipment Regulations

3. General Information

3.1 Test facility

The CS & Environment center is located on Samsung Electronics Co., Ltd. at (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 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 center is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

4. Test Setup configuration

4.1 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
Printer	Xpress M3015DW	-	SAMSUNG	Certification
D/T PC	ZCP30	Z41698DY700026X	Samsung	DoC
LCD Monitor	UE19D4000	PV421101103020F	Samsung	DoC
PS/2 Keyboard	SDM8500P	CNBA5901980BSE386B92932	Samsung	DoC
Serial Mouse	-	-	RadioShack	DoC
PS/2 Mouse	M-SBF96	852157-0000	Logitech	DoC

4.2 EUT operating mode

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

Operating Mode 1 (Test mode)	Standby + Network Ping Test + Wi-Fi
Operating Mode 2 (Test mode)	USB PRT

4.3 Details of Sampling

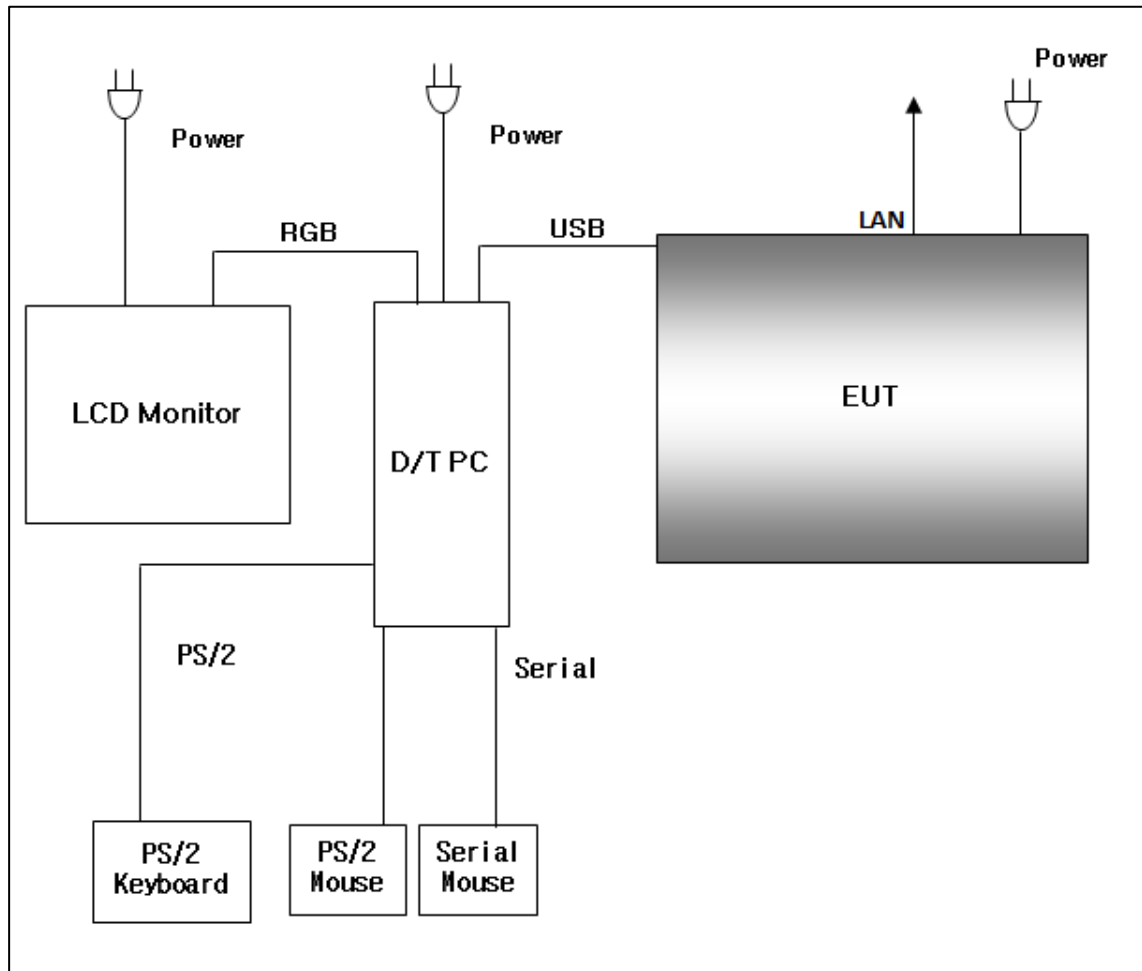
Customer selected, single unit

4.4 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]	Number of Ferrite Core	Note
Power	1.8	No	-	For EUT
Power	1.8	No	-	For D/T PC
Power	1.8	No	-	For Monitor
USB	1.8	Yes	-	From EUT to D/T PC
RGB	1.8	Yes	-	From D/T PC to Monitor
PS/2	1.8	Yes	-	From D/T PC to Mouse & Keyboard
Serial	1.8	Yes	-	From D/T PC to Mouse
LAN	1.5	No	-	From EUT to HUB

4.5 Test Arrangement



4.6 EUT Description

The following features describe EUT represented by this report:

Item	Specification	Remarks
Processor	600MHz CPU	-
Standard System memory	1 200 X 1 200 dpi	-
Resolution	True 600x600dpi (Addressible 1200dpi support)	-
Speed	A4 Mono 30ppm	-
Power Rating	110VAC ~ 120AC, 5.7A, , 50/60 Hz	
Power Consumption	Power Save : 1.8 Watts Standby : 45 Watts Printing : 450 Watts	-
Interfaces	Hi-Speed USB 2.0, 10/100 Ethernet, Wi-Fi, Wi-Fi Direct, NFC	-
Modes of Operation	Standby, USB Printing, Network Printing, Wi-Fi	-

4.7 Clock Frequencies

Kind of Clocks	Frequency[MHz]	Kind of Clocks	Frequency[MHz]
Main CPU	600	UI CPU Internal	25
ETHERNET	125	DDR3	384

4.8 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. The mode of operation utilized for testing was selected to best simulate typical EUT use.

The EUT was connected to a remote PC through the Ethernet port with Unshielded Twisted Pair Ethernet cable. Ethernet testing was performed at 1 000 Mbps, 100 Mbps, 10 Mbps operation. Also, the EUT was connected to a remote PC through the USB cable. The EUT's Wi-Fi option connected to the PC's Wi-Fi function during the test.

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

- Testing Voltage : AC 120 V, 60 Hz

4.9 Measurement uncertainty

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

Test type		Measurement uncertainty (C.L. 95 %, k = 2)
Conducted disturbance	Main terminal (ENV216)	3.16 dB
Radiated Disturbance (Below 1 GHz)	Horizontal	4.90 dB
	Vertical	4.68 dB
Radiated Disturbance (Above 1 GHz)	Horizontal	5.51 dB
	Vertical	5.40 dB

5. Results of individual test

5.1 Conducted disturbance

Both conducted lines are measured in Quasi-Peak and CISPR-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

Frequency range Limits(MHz)	Resolution Bandwidth(kHz)	Limits of Class A, dB(μV)		Limits of Class B, dB(μV)	
		Quasi-peak	C/Average	Quasi-peak	C/Average
0.15 ~ 0.50	9	79	66	66 ~ 56	56 ~ 46
0.50 ~ 5	9	73	60	56	46
5 ~ 30	9			60	50
NOTE 1 The lower limit shall apply at the transition frequency					
NOTE 2 The Class B limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.					

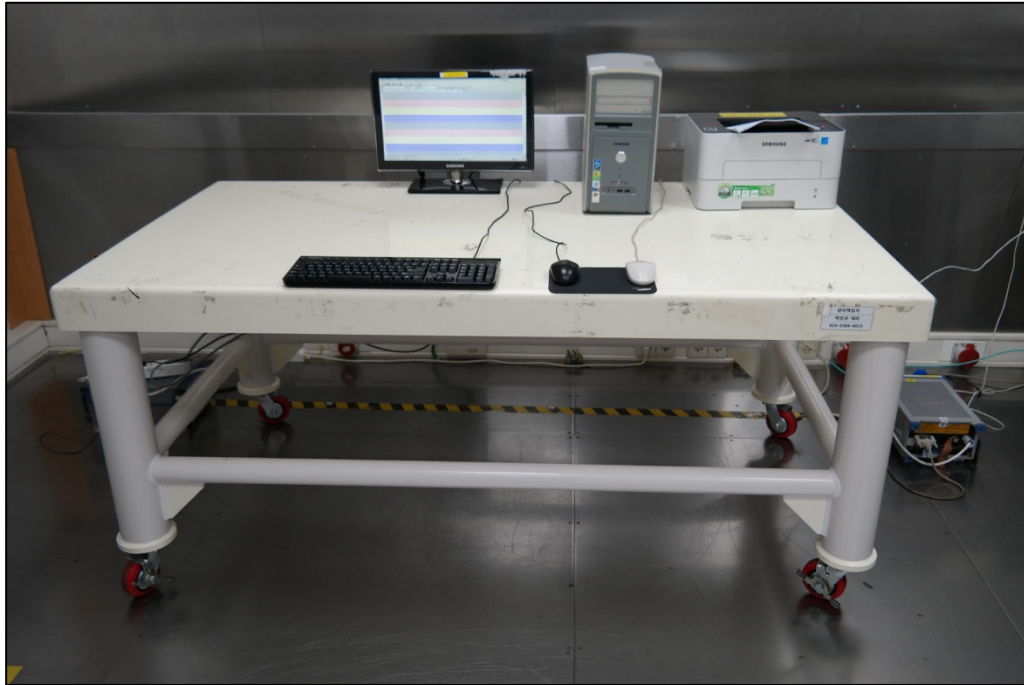
5.1.1 Test instrumentation

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
EMI Test Receiver	ESIB-26	R&S	100291	2014-12-08	12
Two-Line V-Network	ENV216	R&S	101369	2014-11-17	12
Two-Line V-Network	ESH3-Z5	R&S	100260	2015-01-12	12
Test Software	EMC32	R&S	Ver 8.53.0	-	-

5.1.2 Temperature and humidity condition

Test date	September 7, 2015	Test engineer		Young Hun Cheong	
Climate condition	Ambient temperature	20.2 °C	Relative humidity		48.3 %
	Atmospheric pressure	101.1 kPa			
Test place	Shielded Room #8				

5.1.3 Photograph of Test Setup



Front

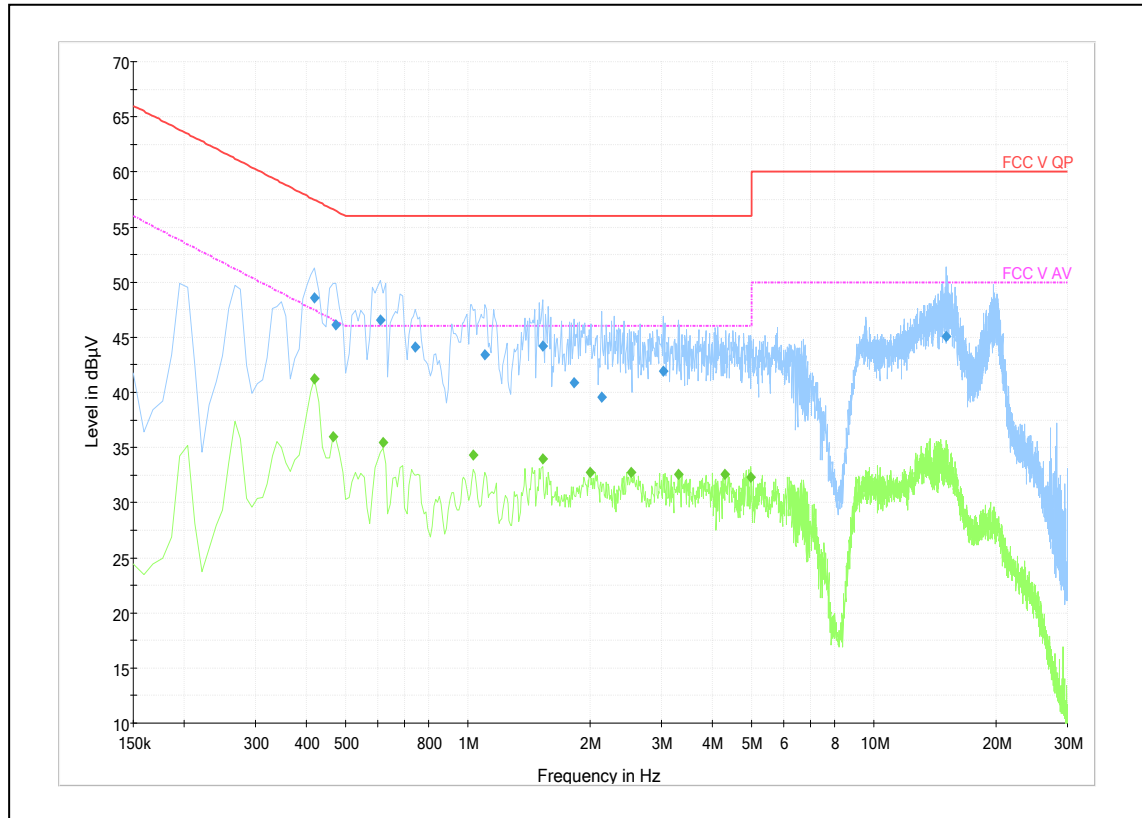


Rear

5.1.4 Test results (Main Port)

- Operating Mode 1

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 C/Average)

Quasi-peak final measurement results table

Frequency (MHz)	Level ¹⁾ Quasi-Peak (dBμV)	Line ²⁾	Factor ³⁾ (dB)	Margin ⁴⁾ (dB)	Limit (dBμV)
0.420	48.6	L1	9.9	8.8	57.4
0.474	46.2	N	9.9	10.2	56.4
0.609	46.6	L1	9.9	9.4	56.0
0.744	44.1	N	9.9	11.9	56.0
1.104	43.4	L1	9.8	12.6	56.0
1.527	44.2	N	9.8	11.8	56.0
1.824	40.9	N	9.7	15.1	56.0
2.139	39.6	N	9.7	16.4	56.0
3.030	41.9	N	9.7	14.1	56.0
15.090	45.0	N	9.9	15.0	60.0

C/Average final measurement results table

Frequency (MHz)	Level ¹⁾ C/Average (dBμV)	Line ²⁾	Factor ³⁾ (dB)	Margin ⁴⁾ (dB)	Limit (dBμV)
0.420	41.2	L1	9.9	6.2	47.4
0.465	36.0	N	9.9	10.6	46.6
0.618	35.4	N	9.9	10.6	46.0
1.032	34.3	N	9.8	11.7	46.0
1.527	34.0	L1	9.8	12.0	46.0
2.004	32.8	N	9.7	13.2	46.0
2.526	32.7	N	9.7	13.3	46.0
3.300	32.6	N	9.7	13.4	46.0
4.308	32.6	L1	9.8	13.4	46.0
4.983	32.3	L1	9.8	13.7	46.0

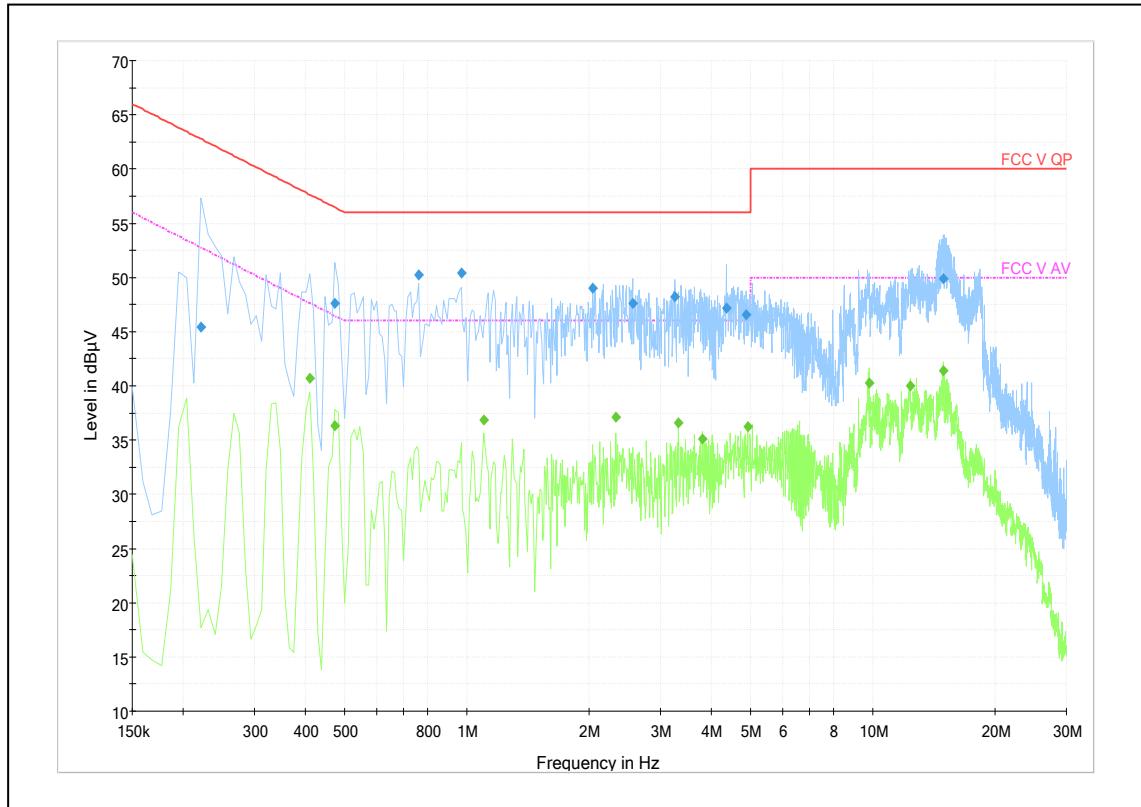
Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor

Note2) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note3) Factor = LISN Insertion Loss + Cable Loss

Note4) Margin = Limit – Level (Quasi-Peak and/or C/Average)

- Operating Mode 2**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 C/Average)

Quasi-peak final measurement results table

Frequency (MHz)	Level ¹⁾ Quasi-Peak (dBμV)	Line ²⁾	Factor ³⁾ (dB)	Margin ⁴⁾ (dB)	Limit (dBμV)
0.222	45.4	N	9.8	17.3	62.7
0.474	47.6	L1	9.9	8.8	56.4
0.762	50.2	N	9.9	5.8	56.0
0.969	50.5	N	9.8	5.6	56.0
2.040	49.0	N	9.7	7.0	56.0
2.562	47.6	N	9.7	8.4	56.0
3.255	48.2	N	9.7	7.8	56.0
4.353	47.2	N	9.8	8.8	56.0
4.875	46.6	N	9.8	9.4	56.0
14.919	49.9	N	9.9	10.1	60.0

C/Average final measurement results table

Frequency (MHz)	Level ¹⁾ C/Average (dBμV)	Line ²⁾	Factor ³⁾ (dB)	Margin ⁴⁾ (dB)	Limit (dBμV)
0.411	40.7	L1	9.9	6.9	47.6
0.474	36.3	L1	9.9	10.1	46.4
1.104	36.8	L1	9.8	9.2	46.0
2.328	37.1	N	9.7	8.9	46.0
3.327	36.6	N	9.7	9.4	46.0
3.813	35.1	L1	9.8	10.9	46.0
4.920	36.3	N	9.8	9.7	46.0
9.780	40.3	N	9.8	9.7	50.0
12.381	40.0	N	9.9	10.0	50.0
14.910	41.4	N	9.9	8.6	50.0

Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor

Note2) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note3) Factor = LISN Insertion Loss + Cable Loss

Note4) Margin = Limit – Level (Quasi-Peak and/or C/Average)

5.2 Radiated disturbance

Of those disturbances above ($L - 20$ 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 m and elevated between 1 m and 4 m.

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 A	Class B
30 to 230	120 kHz	40	30
230 to 1 000	120 kHz	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.			

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	C/Average
A	79.5	59.5
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 CISPR-Average detector.

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

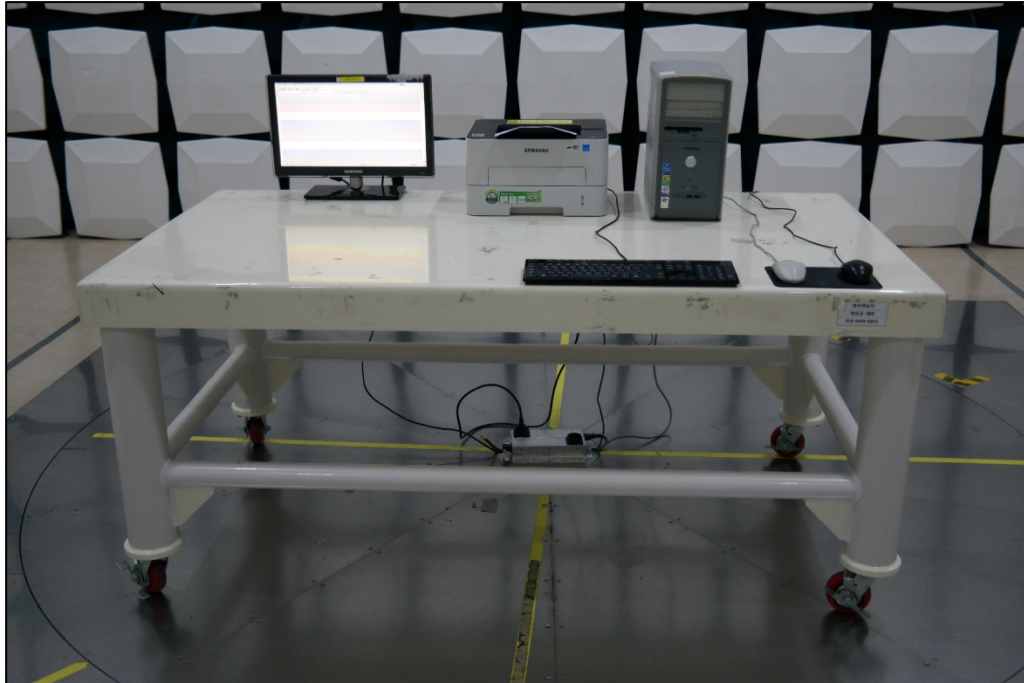
5.2.1 Test instrumentation

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Turn Table	DT430	HD	430/691/01	-	-
Antenna Mast	AM 4.0	Maturo	AM4.0/061/2410908	-	-
Antenna Mast	AM 4.0	Maturo	AM4.0/060/2410908	-	-
Controller	MCU	Maturo	MCU/100/2410908	-	-
Controller	HD100	HD	100/723	-	-
Preamplifier	317	SONOMA	282424	2014-11-10	12
Preamplifier	317	SONOMA	282425	2014-11-10	12
Preamplifier	ESV-Z3	R&S	815111	2015-04-16	12
BILOG Antenna	CBL6112D	TESEQ	25513	2014-10-21	24
BILOG Antenna	CBL6112B	Schaffner	2804	2014-05-14	24
Double-Ridged Waveguide Horn Antenna	HF906	R&S	100028	2014-10-20	24
EMI Test Receiver	ESU-08	R&S	100481	2015-05-13	12
EMI Test Receiver	ESU-26	R&S	100364	2015-03-31	12
EMI Test Receiver	ESI-26	R&S	100010	2014-09-29	12
Test Software	EP5/RE	TOYO	Ver 5.70.10	-	-

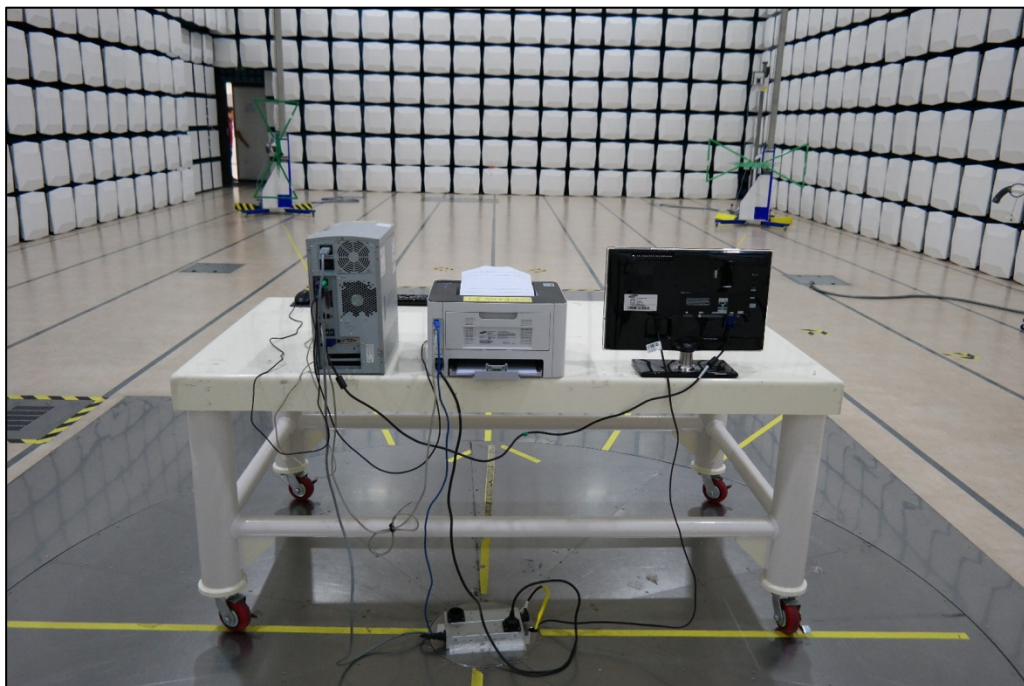
5.2.2 Temperature and humidity condition

Test date	September 2, 2015	Test engineer		Young Hun Cheong	
Climate condition	Ambient temperature	19.3 ℃	Relative humidity		50.2 %
	Atmospheric pressure	101.3 kPa			
Test place	Semi-Anechoic Chamber (SAC4)				

5.2.3.1 Photograph of Test Setup (30 MHz ~ 1 000 MHz)

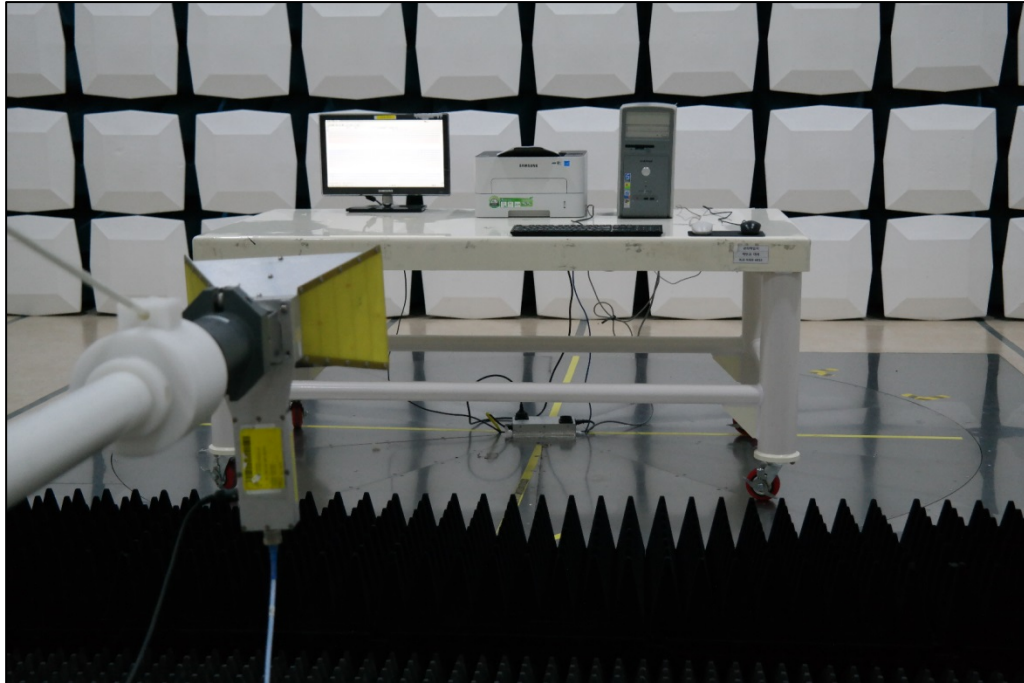


Front

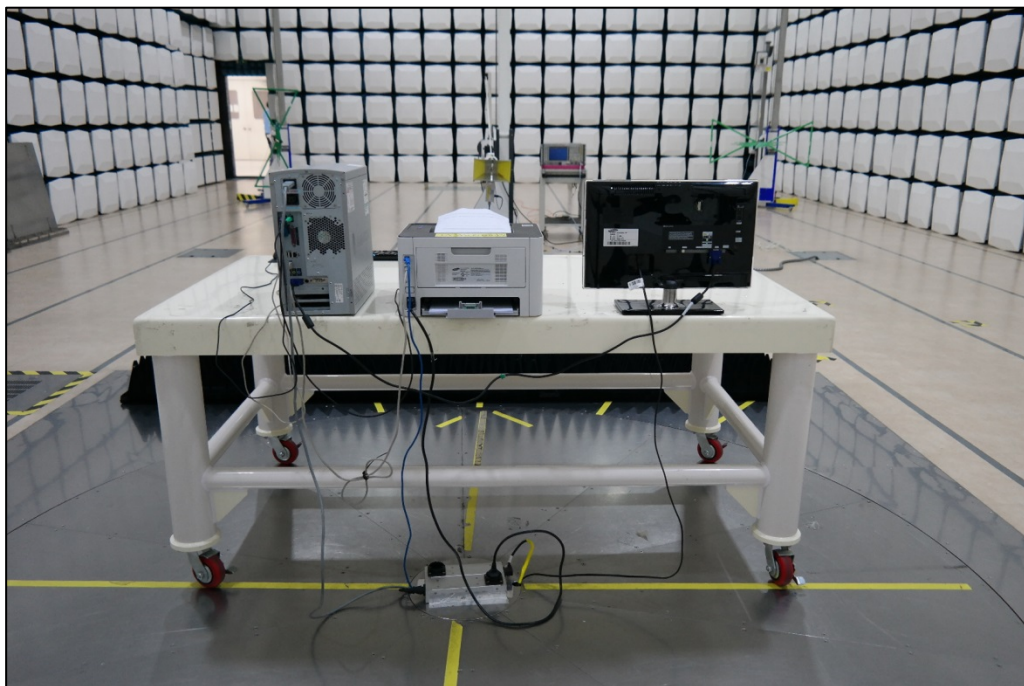


Rear

5.2.3.2 Photograph of Test Setup (Above 1 GHz)



Front

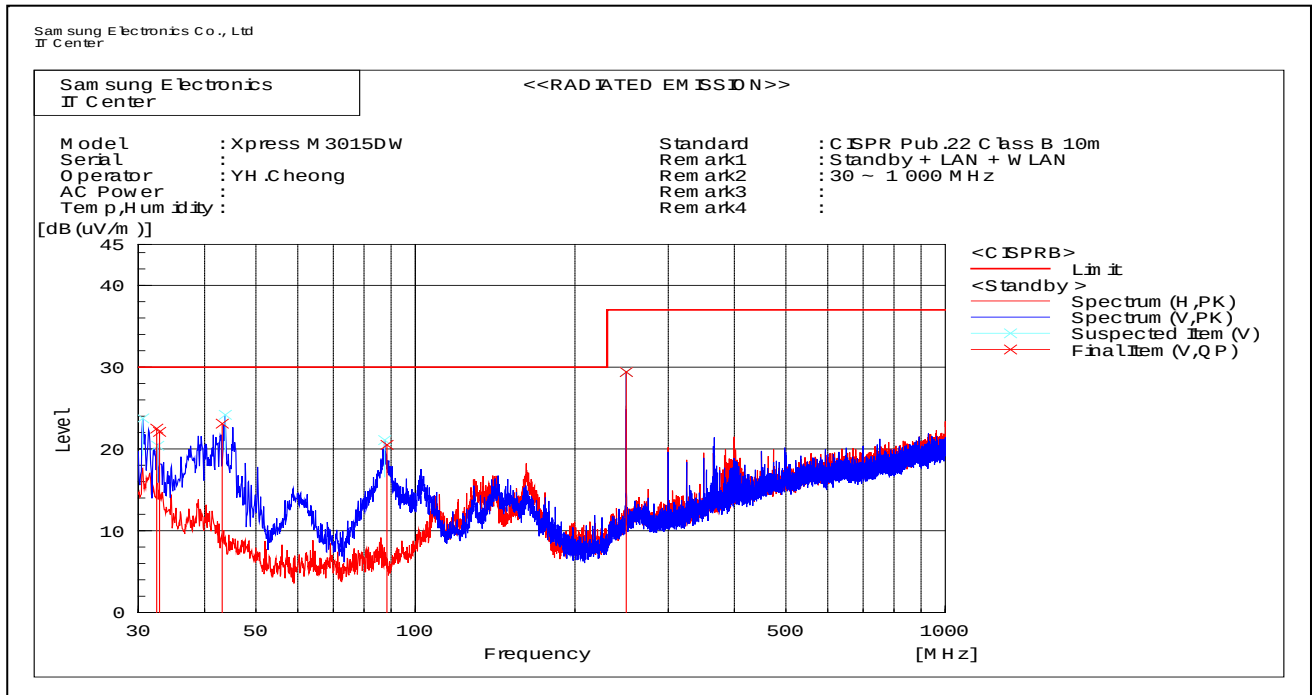


Rear

5.2.4 Test results

5.2.4.1 30 MHz ~ 1 000 MHz results

- Operating Mode 1



Frequency [MHz]	(P) ¹⁾	Reading QP ²⁾ [dB(μV)]	Factor ³⁾ [dB(1/m)]	Level QP ⁴⁾ [dB(μV/m)]	Limit [dB(μV/m)]	Margin QP ⁵⁾ [dB]	Height [cm]	Angle [deg]
32.486	V	41.9	-19.4	22.5	30.0	7.5	174.0	26.0
32.894	V	41.7	-19.6	22.1	30.0	7.9	121.0	98.0
43.194	V	48.3	-25.2	23.1	30.0	6.9	124.0	11.0
88.354	V	48.5	-28.0	20.5	30.0	9.5	168.0	13.0
249.998	V	50.8	-21.4	29.4	37.0	7.6	106.0	138.0

Note1) (P) : Abbreviation of Antenna Polarity

Note2) Reading QP : Received raw Quasi-peak signal

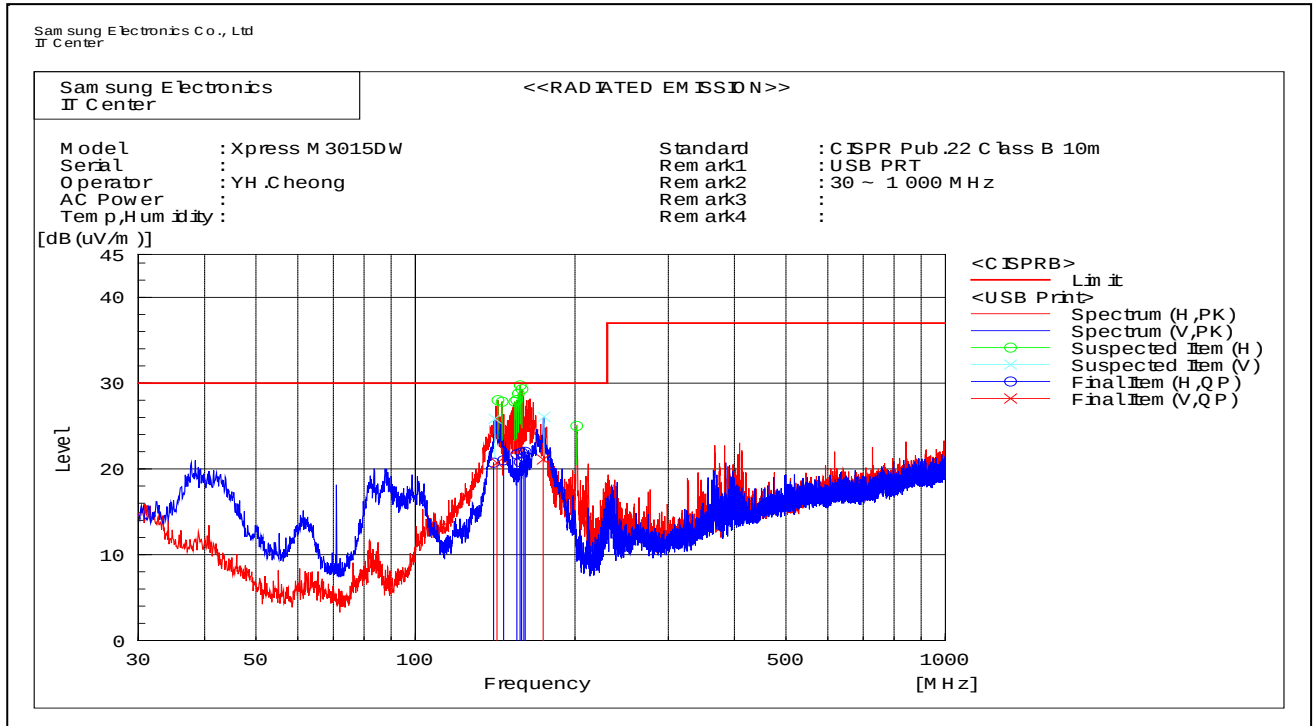
Note3) Factor = Antenna factor + Cable loss – Amplifier gain

Note4) Level QP = Reading QP + Factor, Real signal Quasi-peak level

Note5) Margin QP = Limit – Level QP

QP : Abbreviation of Quasi-peak

- Operating Mode 2



Frequency [MHz]	(P) ¹⁾	Reading QP ²⁾ [dB(μV)]	Factor ³⁾ [dB(1/m)]	Level QP ⁴⁾ [dB(μV/m)]	Limit [dB(μV/m)]	Margin QP ⁵⁾ [dB]	Height [cm]	Angle [deg]
140.448	H	44.3	-23.6	20.7	30.0	9.3	397.0	73.0
142.480	V	45.1	-24.4	20.7	30.0	9.3	142.0	324.0
146.744	H	44.9	-23.9	21.0	30.0	9.0	376.3	15.0
155.439	H	46.1	-24.4	21.7	30.0	8.3	380.0	74.0
157.615	H	45.3	-24.5	20.8	30.0	9.2	379.0	86.0
158.589	H	46.5	-24.6	21.9	30.0	8.1	391.0	51.0
160.187	H	46.1	-24.7	21.4	30.0	8.6	375.0	66.0
161.150	H	46.7	-24.7	22.0	30.0	8.0	373.0	58.0
174.156	V	47.0	-25.9	21.1	30.0	8.9	129.0	267.0

Note1) (P) : Abbreviation of Antenna Polarity

Note2) Reading QP : Received raw Quasi-peak signal

Note3) Factor = Antenna factor + Cable loss – Amplifier gain

Note4) Level QP = Reading QP + Factor, Real signal Quasi-peak level

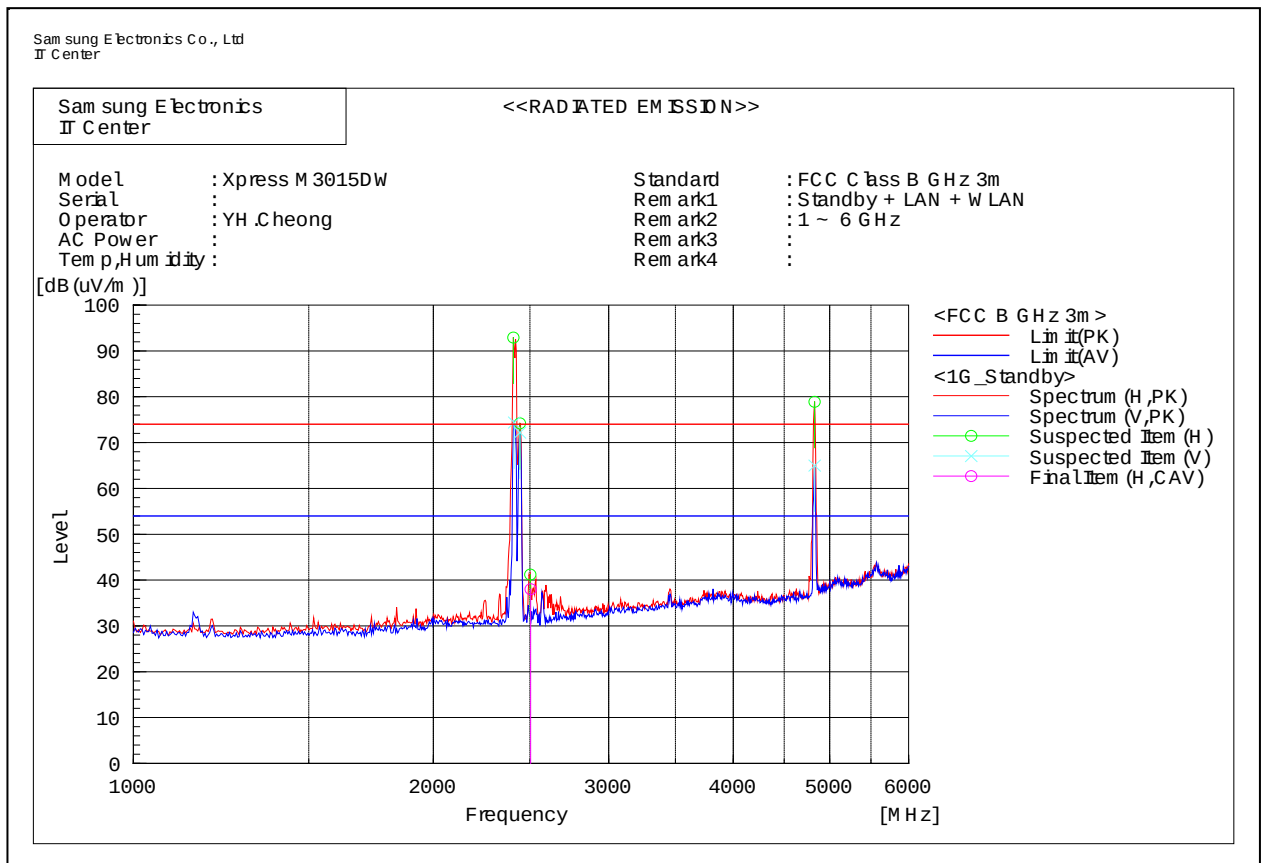
Note5) Margin QP = Limit – Level QP

QP : Abbreviation of Quasi-peak

5.2.4.2 Above 1 GHz results

- Operating Mode 1

Test Graph and Results



Peak Measurement

Frequency [MHz]	(P) ¹⁾	Reading PK ²⁾ [dB(uV)]	Factor ³⁾ [dB(1/m)]	Level PK ⁴⁾ [dB(uV/m)]	Limit [dB(uV/m)]	Margin PK ⁵⁾ [dB]	Height [cm]	Angle [deg]
2 503.006	H	49.0	-7.8	41.2	74.0	32.8	109.0	82.0

Note1) (P) : Abbreviation of Antenna Polarity

Note2) Reading PK : Received raw Peak signal

Note3) Factor = Antenna factor + Cable loss – Amplifier gain

Note4) Level PK = Reading PK + Factor, Real signal Peak level

Note5) Margin PK = Limit – Level PK

PK : Abbreviation of Peak

Note6) Radiated emissions (Tx / Rx frequency and Harmonics) from the transceiver shall be ignored.

Wi-Fi b/g/n : Operating frequencies (2 402 ~ 2 482) MHz / Harmonics (4 804 ~ 4 964) MHz

C/Average Measurement

Frequency [MHz]	(P) ¹⁾	Reading C/AV ²⁾ [dB(uV)]	Factor ³⁾ [dB(1/m)]	Level C/AV ⁴⁾ [dB(uV/m)]	Limit [dB(uV/m)]	Margin C/AV ⁵⁾ [dB]	Height [cm]	Angle [deg]
2 505.103	H	45.8	-7.8	38.0	54.0	16.0	105.0	90.8

Note1) (P) : Abbreviation of Antenna Polarity

Note2) Reading C/AV : Received raw C/Average signal

Note3) Factor = Antenna factor + Cable loss – Amplifier gain

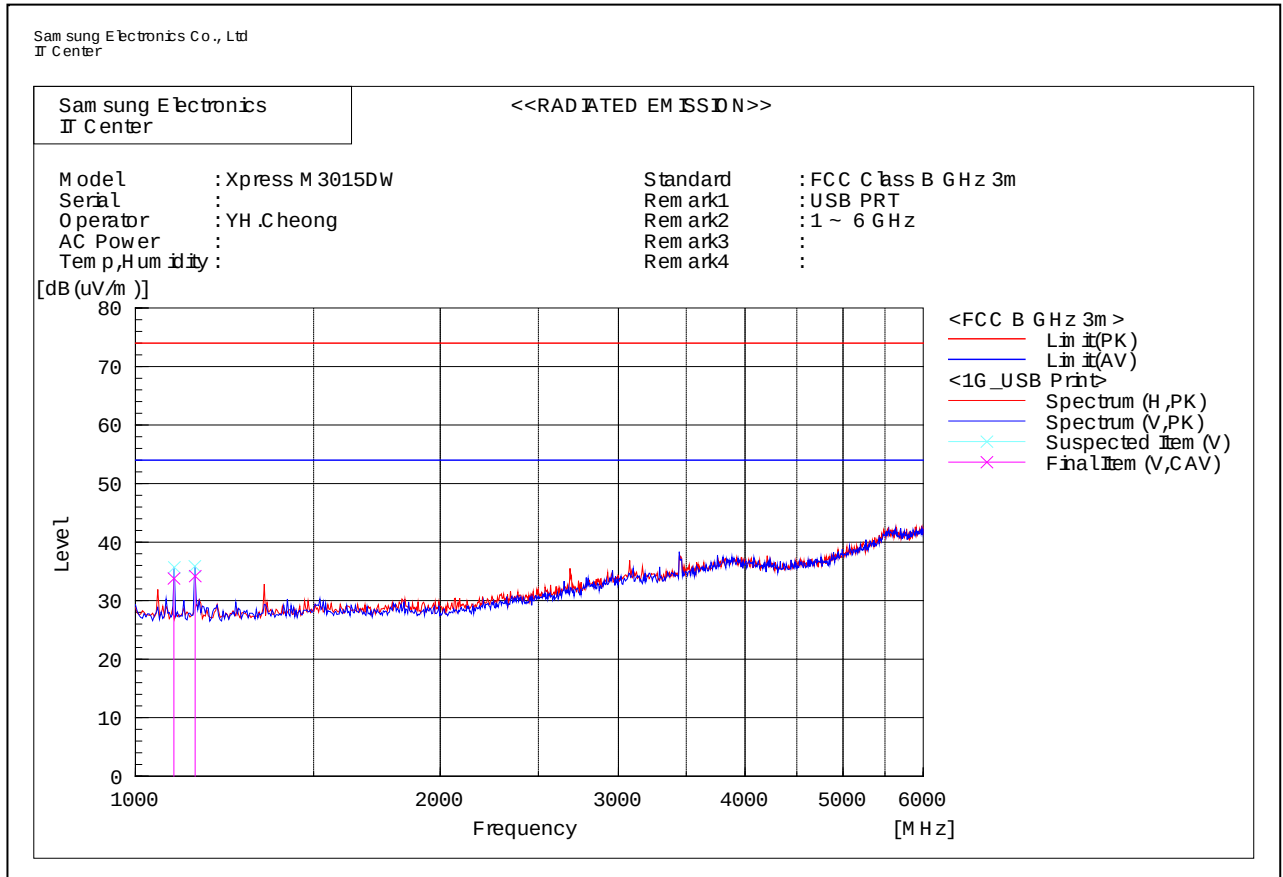
Note4) Level C/AV = Reading C/AV + Factor, Real signal C/Average level

Note5) Margin C/AV = Limit – Level C/AV

C/AV : Abbreviation of C/Average

- Operating Mode 2

Test Graph and Results



Peak Measurement

Frequency [MHz]	(P) ¹⁾	Reading PK ²⁾ [dB(uV)]	Factor ³⁾ [dB(1/m)]	Level PK ⁴⁾ [dB(uV/m)]	Limit [dB(uV/m)]	Margin PK ⁵⁾ [dB]	Height [cm]	Angle [deg]
1 092.184	V	48.5	-12.8	35.7	74.0	38.3	100.0	8.0
1 144.289	V	48.5	-12.6	35.9	74.0	38.1	100.0	121.0

Note1) (P) : Abbreviation of Antenna Polarity

Note2) Reading PK : Received raw Peak signal

Note3) Factor = Antenna factor + Cable loss – Amplifier gain

Note4) Level PK = Reading PK + Factor, Real signal Peak level

Note5) Margin PK = Limit – Level PK

PK : Abbreviation of Peak

C/Average Measurement

Frequency [MHz]	(P) ¹⁾	Reading C/AV ²⁾ [dB(uV)]	Factor ³⁾ [dB(1/m)]	Level C/AV ⁴⁾ [dB(uV/m)]	Limit [dB(uV/m)]	Margin C/AV ⁵⁾ [dB]	Height [cm]	Angle [deg]
1 091.287	V	46.6	-12.8	33.8	54.0	20.2	108.0	10.8
1 145.319	V	46.8	-12.6	34.2	54.0	19.8	103.0	110.5

Note1) (P) : Abbreviation of Antenna Polarity

Note2) Reading C/AV : Received raw C/Average signal

Note3) Factor = Antenna factor + Cable loss – Amplifier gain

Note4) Level C/AV = Reading C/AV + Factor, Real signal C/Average level

Note5) Margin C/AV = Limit – Level C/AV

C/AV : Abbreviation of C/Average

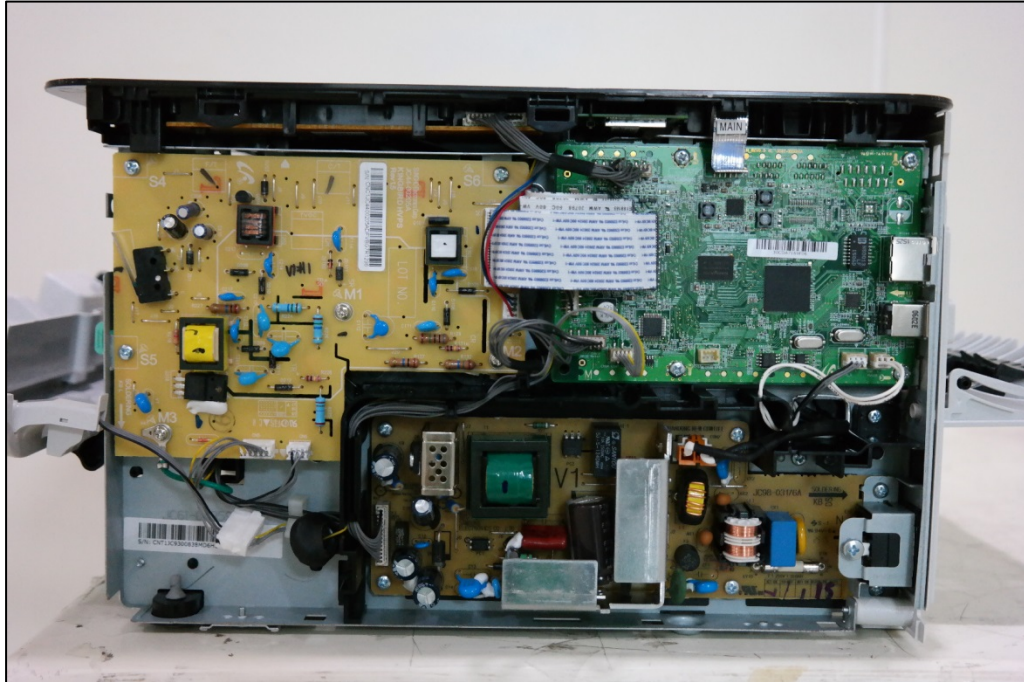
Appendix – EUT photographs



Front



Rear



Inside View

	Model: Xpress M3015DW	FCC ID : A3LSLM3015DW
	Volts: AC 110-127 V	Contains FCC ID : A3LSPWB4319S
	Hertz: 50/60 Hz	
	Amps: 5.7 A	
	Manufactured:	
Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M264	 3U07 US E337632 I.T.E.	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. CAN ICES-3 (B)/NMB-3(B) This product complies with 21 CFR Chapter 1, subchapter J. Contains IC : 649E-SPWB4319S
M/C : SL-M3015DW/XAA		
		
S/N : ZD2YBJZG800001Z		Made in China Fabriqu� en Chine REV.00

Label