

EMC TEST REPORT

Project No.	LBE093693	Issue No.	1
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 Korea	
	Date of application	November 26, 2009	
EUT	Type of device	Class B digital devices and peripherals	
	Equipment authorization	☐ Declaration of Conformity ☒ Certification ☐ Verification	
	FCC ID	A3LSCX4623FW	
	Kind of product	MONO LASER PRINTER	
	Model No.	SCX-4623FW	
		Variant Model No.	None
	Manufacturer	Samsung Electronics Co., Ltd. 259, Gongdan-Dong, Gumi-City, Gyeong-Buk, 730-030, Korea Samsung Electronics (Shandong) Digital Printing Co., Ltd. 264209, Samsung Road, Weihai Hi-Tech IDZ, Shandong Province, P.R. China Shin Heung Digital Electronics Co., Ltd. 98, Samsung Road, Weihai Hi-Tech IDZ, Shandong Province, P.R. China 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 C63.4-2003	
Test Period		December 01, 2009 ~ December ,11 2009	
Issue date		December 21 , 2009	

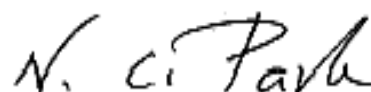
Test result : Complied

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

Tested by : Ho Jin Choi



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.
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MONO LASER MFP : SCX-4623FW

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



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2. General Information

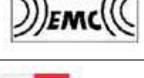
2.1 Test facility

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
	UKAS(United Kingdom Accreditation Service)	Accredited : 4290
	Radio Research Agency	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
	Elektrotechnický Zkusební Ústav	Reg. No.: 001
	IC(Industry Canada)	Assigned Code: 5871

3. Test Setup configuration

3.1 Test Peripherals

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

Description	Model No.	Serial No.	Manufacturer	FCC ID and/or DoC
MONO LASER MFP	SCX-4623FW	-	Samsung	A3LSCX4623FW
Notebook PC	PP18L	2718225373	DELL	DOC
AC Adapter	LA65LS1-00	CN-OYD637-71615-83C-OE60	DELL	For Notebook PC
USB Mouse	MOARUO	0740007905	Primax electronics	DOC
Head set	-	-	Micro soft	DOC
Telephone	SP-F209	-	Samsung	DOC

3.2 EUT operating mode

To achieve compliance applied standard and/or specification, the following mode(s) were considered

Operating Mode 1	Standby
Operating Mode 2	USB Printing
Operating Mode 3	ADF Copy Printing
Operating Mode 4	Network Printing
Operating Mode 5	Wireless Network Printing
Operating Mode 6	Scan to PC
Operating Mode 7	Fax-Rx
Operating Mode 8	Fax-Tx

3.3 Details of Sampling

Customer selected, single units.

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
Head set	1.5	No	For Note PC to Head set
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	JUPITER5 (375Mhz)	-
Standard System memory	256MB DDR2 SDRAM	-
Resolution	True 600x600dpi (Addressible 1200dpi support)	-
Copy Quality mode	Text : 600x300dpi(ADF) Mixed : 600x300dpi(ADF) Photo : 600x300dpi(ADF) ,600x600dpi (Platen)	-
Paper Handling	Paper Tray(standard) 250 Sheets Bypass Tray 1 Sheets	-
Power Rating	110~127 VAC, 5A, 50/60 Hz	-
Power Consumption	Power save mode : 0.7 Watts Printing mode: MAX. 420 Watts	-
Printer Language	GDI, PCL-5	-
PC Interfaces	USB2.0, NW, FAX, WLAN	-
OS compatibility	MS Windows 98/2000/XP/NT/Me,MAC (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	-
Modes of Operation	USB Printing, ADF Scan, ADF Copy, 1200dpi Printing, Fax RX, Fax TX, Network Printing	-
Intended Class for Emissions	Class B	-

3.6 Clock Frequencies

Kind of Clocks	Frequency[MHz]	Kind of Clocks	Frequency[MHz]
Main Source	12	Video	10.5
CPU Internal	375	DDR2	166
USB Device	12	CIS	4.16

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

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

- **Testing Voltage : AC 115 V, 60 Hz**

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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	3.50 dB
Radiated Disturbance	Horizontal	5.04 dB
	Vertical	5.03 dB



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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 A ITE

Frequency range Limits MHz	Resolution Bandwidth	Limits dB(μV)	
		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 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.			



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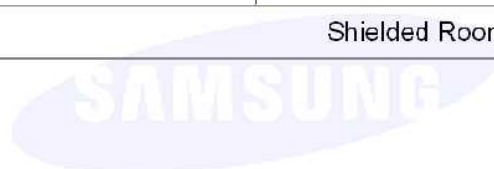
MONO LASER MFP : SCX-4623FW

4.1.1 Test instrumentation

Test instrumentation	Manufacturer	Model name	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Receiver	R&S	ESCI	100370	2009-05-07	12
Two-Line V-Network	R&S	ENV216	100456	2009-09-18	12
Two-Line V-Network	R&S	ESH3-Z5	100261	2009-04-03	12
Test software	EMC32	ESCI	100370	2009-05-07	N/A

4.1.2 Temperature and humidity condition

Test date	December 11, 2009	Test engineer	Ho Jin Choi
Test place	Shielded Room #1		



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4.1.3 Photograph of Test Setup



Front

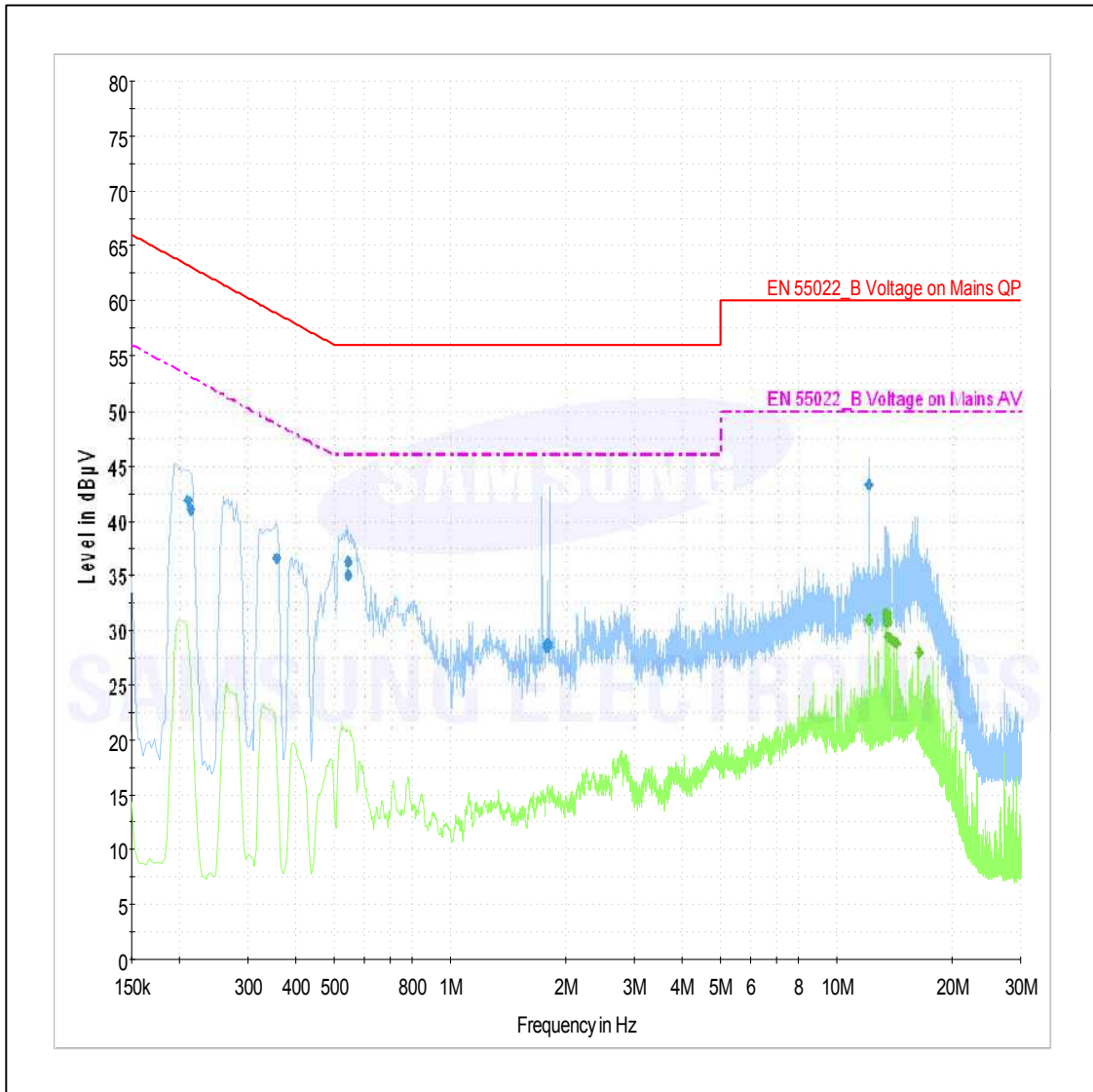


Rear

4.1.4 Test results (mains port)

- Operating Mode : 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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.21	41.831	9.0	N	9.3	21.4	63.2
0.214	41.064	9.0	N	9.4	22	63
0.356	36.594	9.0	N	9.4	22.2	58.8
0.542	36.285	9.0	N	9.5	19.7	56
0.543	35.085	9.0	L1	9.5	20.9	56
1.784	28.499	9.0	L1	9.6	27.5	56
1.788	28.786	9.0	L1	9.6	27.2	56
12.069	43.248	9.0	L1	9.6	16.8	60

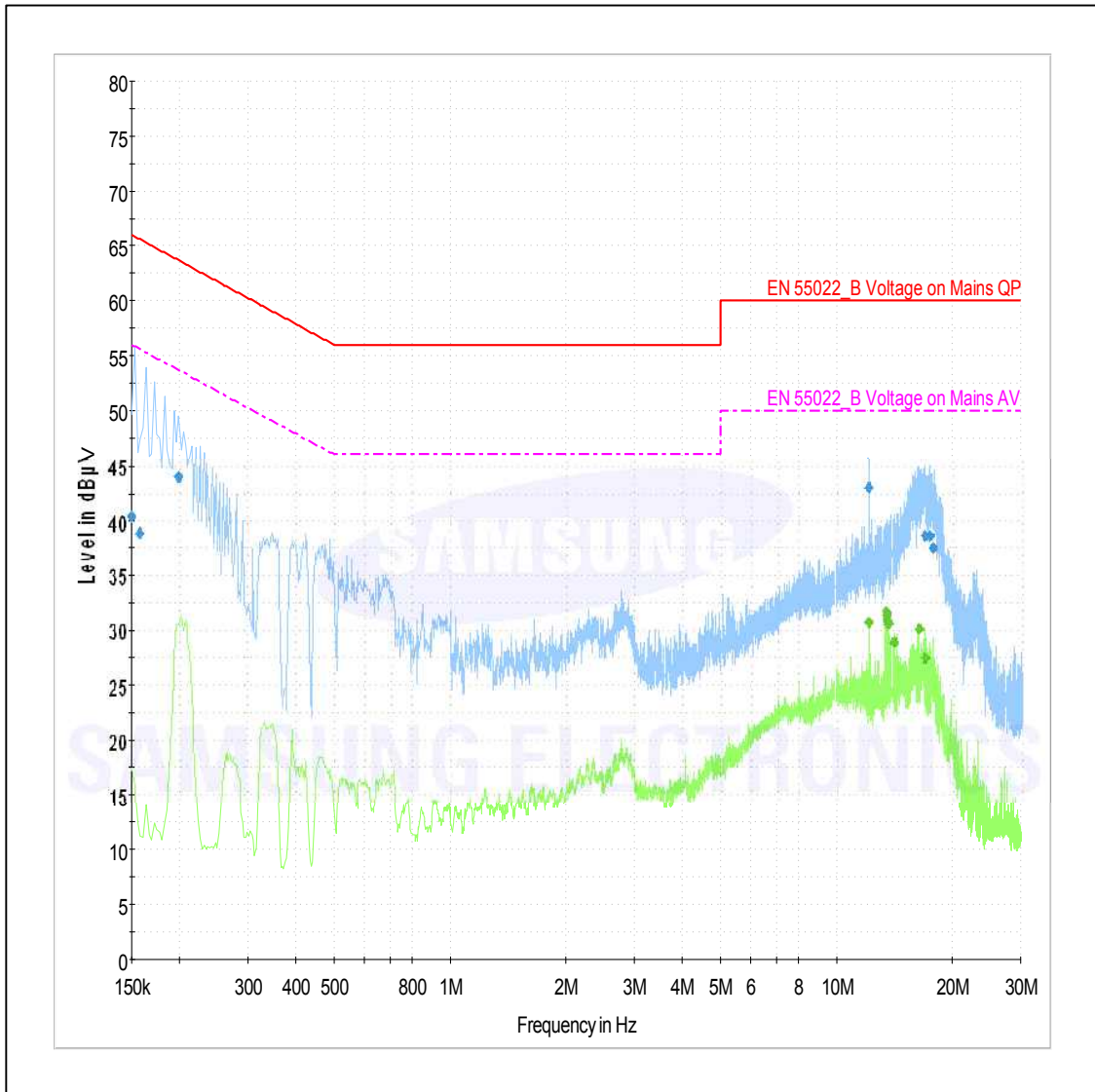
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
12.066	30.945	9.0	L1	9.6	19.1	50
13.419	31.596	9.0	L1	9.7	18.4	50
13.421	31.076	9.0	L1	9.7	18.9	50
13.481	30.77	9.0	L1	9.7	19.2	50
13.601	29.37	9.0	L1	9.7	20.6	50
14.032	28.975	9.0	N	9.7	21	50
14.151	28.86	9.0	N	9.7	21.1	50
16.229	27.953	9.0	N	9.8	22	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 : USB Printing

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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.15	40.477	9.0	N	9.4	25.5	66
0.158	38.89	9.0	N	9.4	26.7	65.6
0.198	44.003	9.0	N	9.3	19.7	63.7
12.069	43.107	9.0	L1	9.6	16.9	60
16.905	38.621	9.0	L1	9.7	21.4	60
17.391	38.567	9.0	L1	9.7	21.4	60
17.781	37.542	9.0	L1	9.7	22.5	60
		9.0				

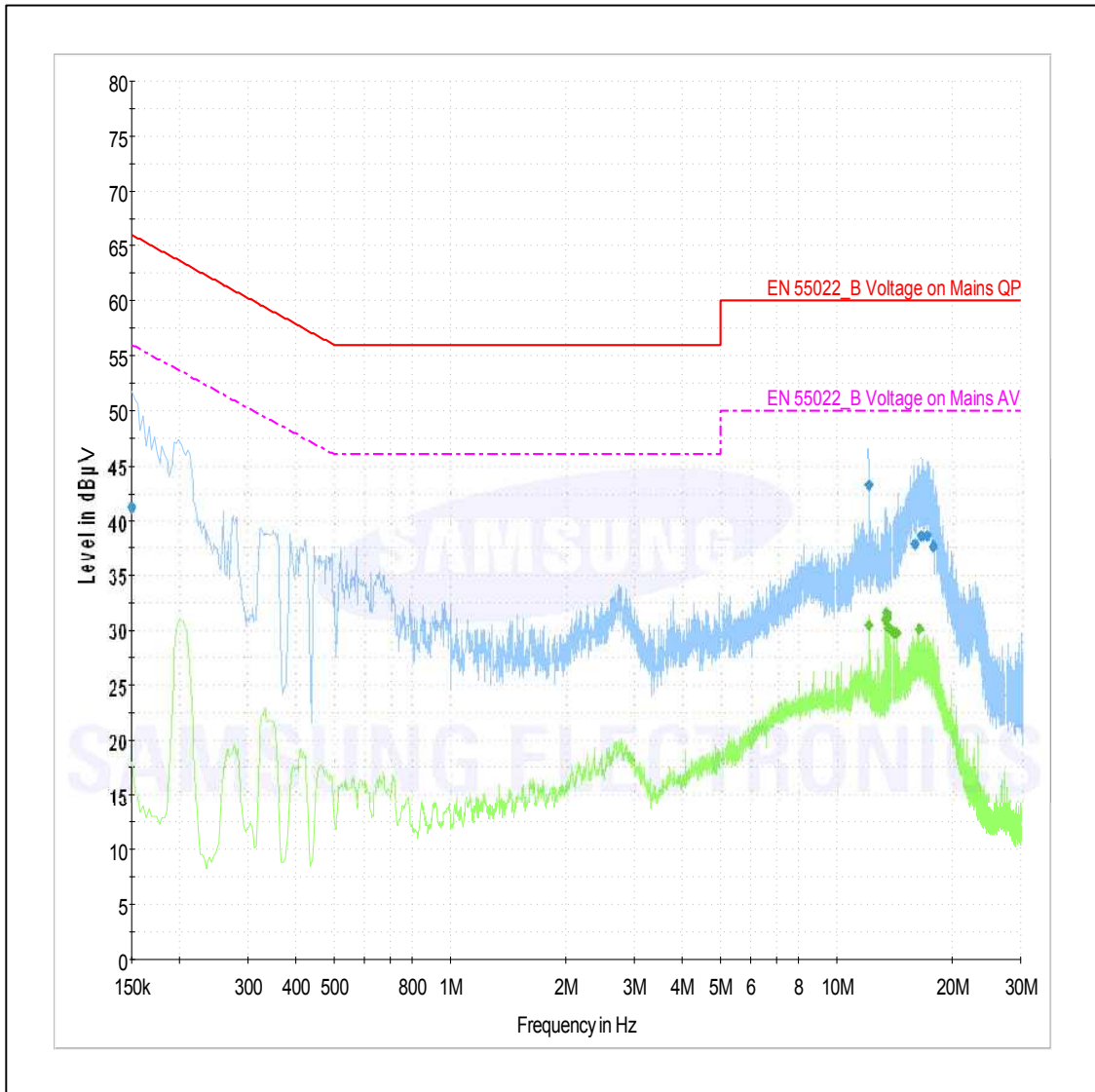
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
12.066	30.689	9.0	L1	9.6	19.3	50
13.419	31.735	9.0	L1	9.7	18.3	50
13.421	31.393	9.0	L1	9.7	18.6	50
13.481	30.833	9.0	N	9.7	19.2	50
13.602	30.582	9.0	L1	9.7	19.4	50
14.032	28.915	9.0	N	9.7	21.1	50
16.229	30.105	9.0	L1	9.7	19.9	50
16.838	27.556	9.0	L1	9.7	22.4	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 : Network Printing

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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.15	41.202	9.0	N	9.4	24.8	66
12.069	43.229	9.0	N	9.7	16.8	60
15.841	37.966	9.0	L1	9.7	22	60
16.5	38.586	9.0	L1	9.7	21.4	60
17.132	38.679	9.0	L1	9.7	21.3	60
17.133	38.586	9.0	L1	9.7	21.4	60
17.755	37.611	9.0	L1	9.7	22.4	60
		9.0				

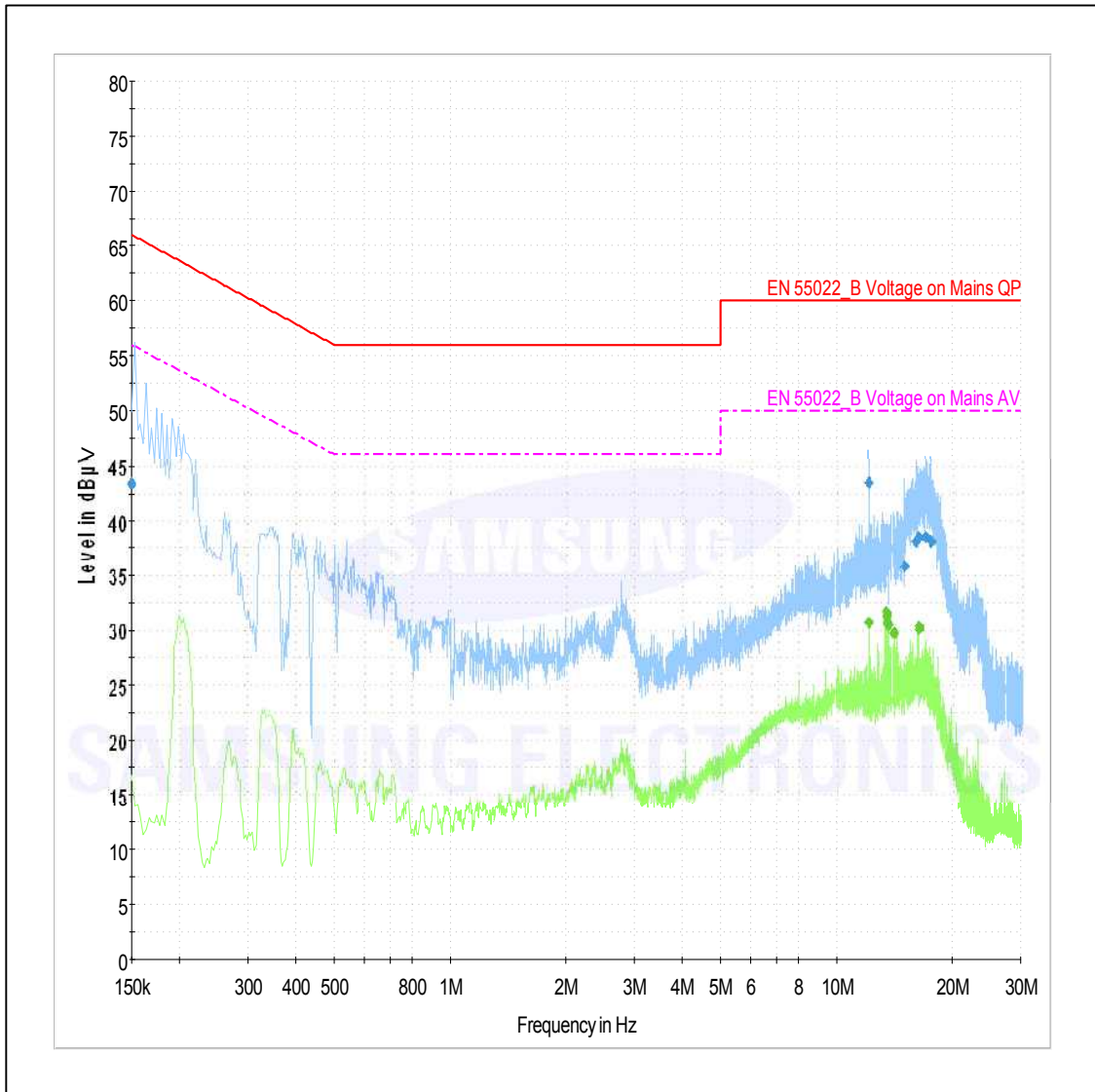
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
12.066	30.49	9.0	L1	9.6	19.5	50
13.357	30.925	9.0	L1	9.7	19.1	50
13.419	31.6	9.0	L1	9.7	18.4	50
13.421	31.252	9.0	L1	9.7	18.7	50
13.602	30.283	9.0	L1	9.7	19.7	50
14.032	29.802	9.0	L1	9.7	20.2	50
14.213	29.834	9.0	L1	9.7	20.2	50
16.229	30.191	9.0	L1	9.7	19.8	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 : Wireless Network Printing

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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.15	43.448	9.0	N	9.4	22.6	66
12.069	43.474	9.0	L1	9.6	16.5	60
14.887	35.922	9.0	L1	9.7	24.1	60
15.936	38.131	9.0	L1	9.7	21.9	60
16.234	38.525	9.0	L1	9.7	21.5	60
17.001	38.464	9.0	L1	9.7	21.5	60
17.465	38.091	9.0	L1	9.7	21.9	60
		9.0				

Average final measurement results table

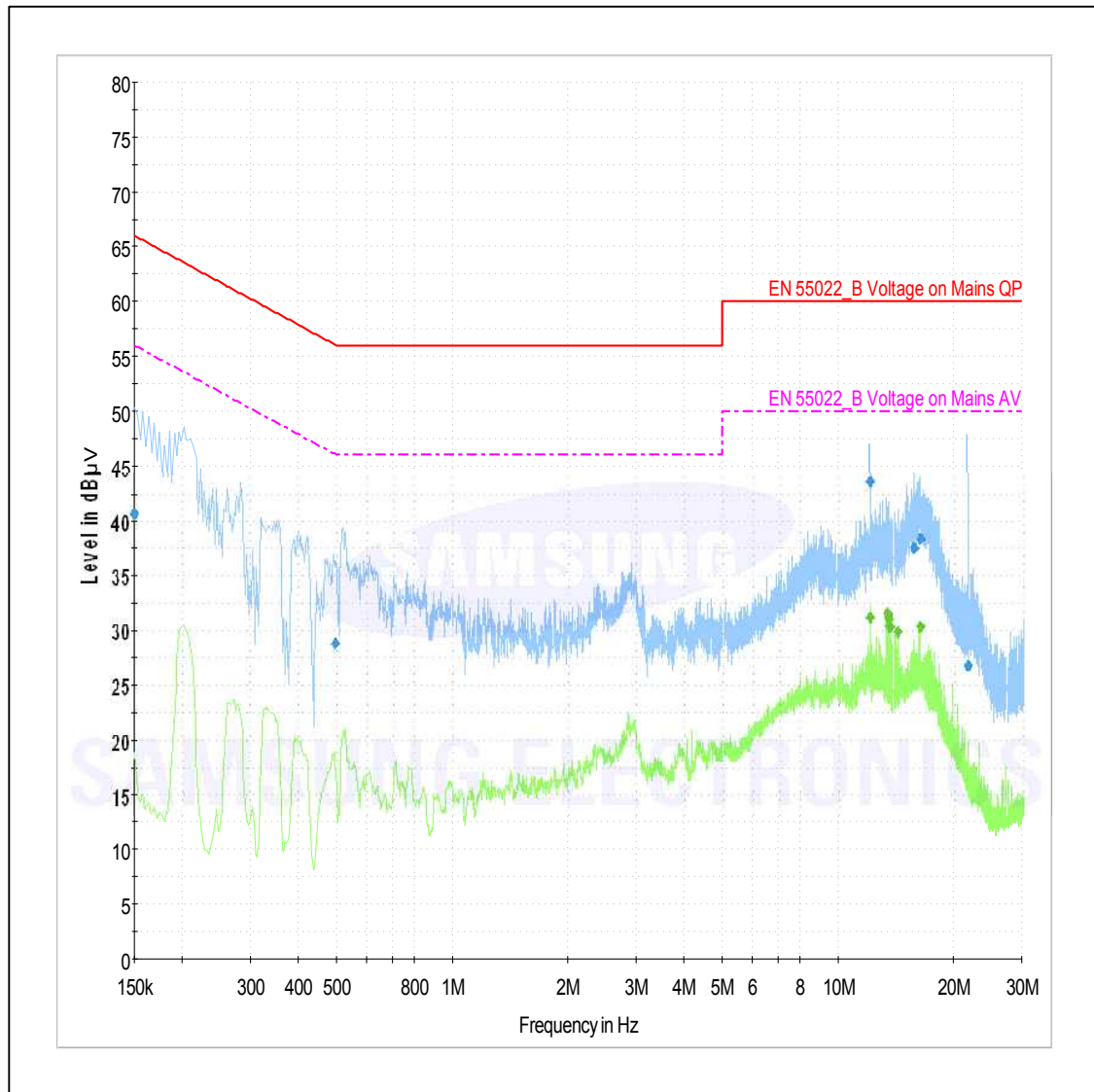
Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
12.069	30.715	9.0	L1	9.6	19.3	50
13.419	31.705	9.0	L1	9.7	18.3	50
13.421	31.286	9.0	L1	9.7	18.7	50
13.481	30.759	9.0	N	9.7	19.2	50
13.602	30.479	9.0	L1	9.7	19.5	50
14.032	29.754	9.0	L1	9.7	20.2	50
16.227	30.316	9.0	L1	9.7	19.7	50
16.229	30.103	9.0	L1	9.7	19.9	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 : ADF Copy Printing

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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.15	40.635	9.0	L1	9.4	25.4	66
0.496	28.78	9.0	N	9.5	27.3	56.1
12.069	43.635	9.0	L1	9.6	16.4	60
15.652	37.515	9.0	L1	9.7	22.5	60
16.238	38.35	9.0	L1	9.7	21.6	60
21.62	26.843	9.0	L1	9.5	33.2	60

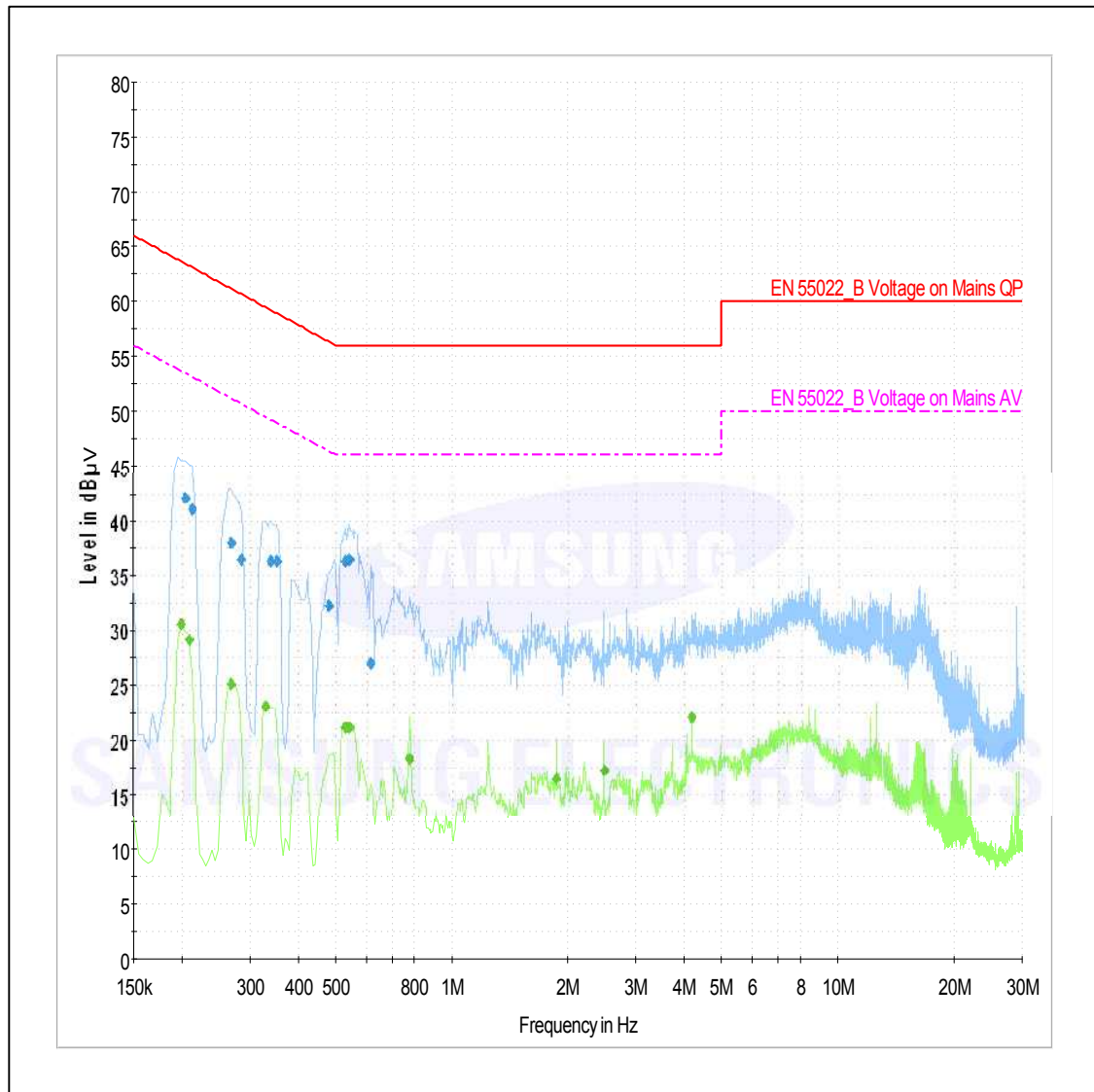
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
12.069	31.198	9.0	L1	9.6	18.8	50
13.419	31.613	9.0	L1	9.7	18.4	50
13.481	31.085	9.0	L1	9.7	18.9	50
13.602	30.317	9.0	L1	9.7	19.7	50
14.151	29.888	9.0	L1	9.7	20.1	50
14.213	29.84	9.0	L1	9.7	20.2	50
16.227	30.388	9.0	L1	9.7	19.6	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 : Scan to PC

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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.204	42.048	9.0	L1	9.3	21.4	63.4
0.213	41.142	9.0	L1	9.3	21.9	63.1
0.267	38.036	9.0	L1	9.4	23.2	61.2
0.285	36.523	9.0	L1	9.4	24.1	60.7
0.339	36.344	9.0	L1	9.4	22.9	59.2
0.353	36.297	9.0	L1	9.4	22.6	58.9
0.479	32.273	9.0	L1	9.4	24.1	56.4
0.528	36.327	9.0	L1	9.5	19.7	56
0.542	36.472	9.0	L1	9.5	19.5	56
0.618	27.085	9.0	N	9.5	28.9	56

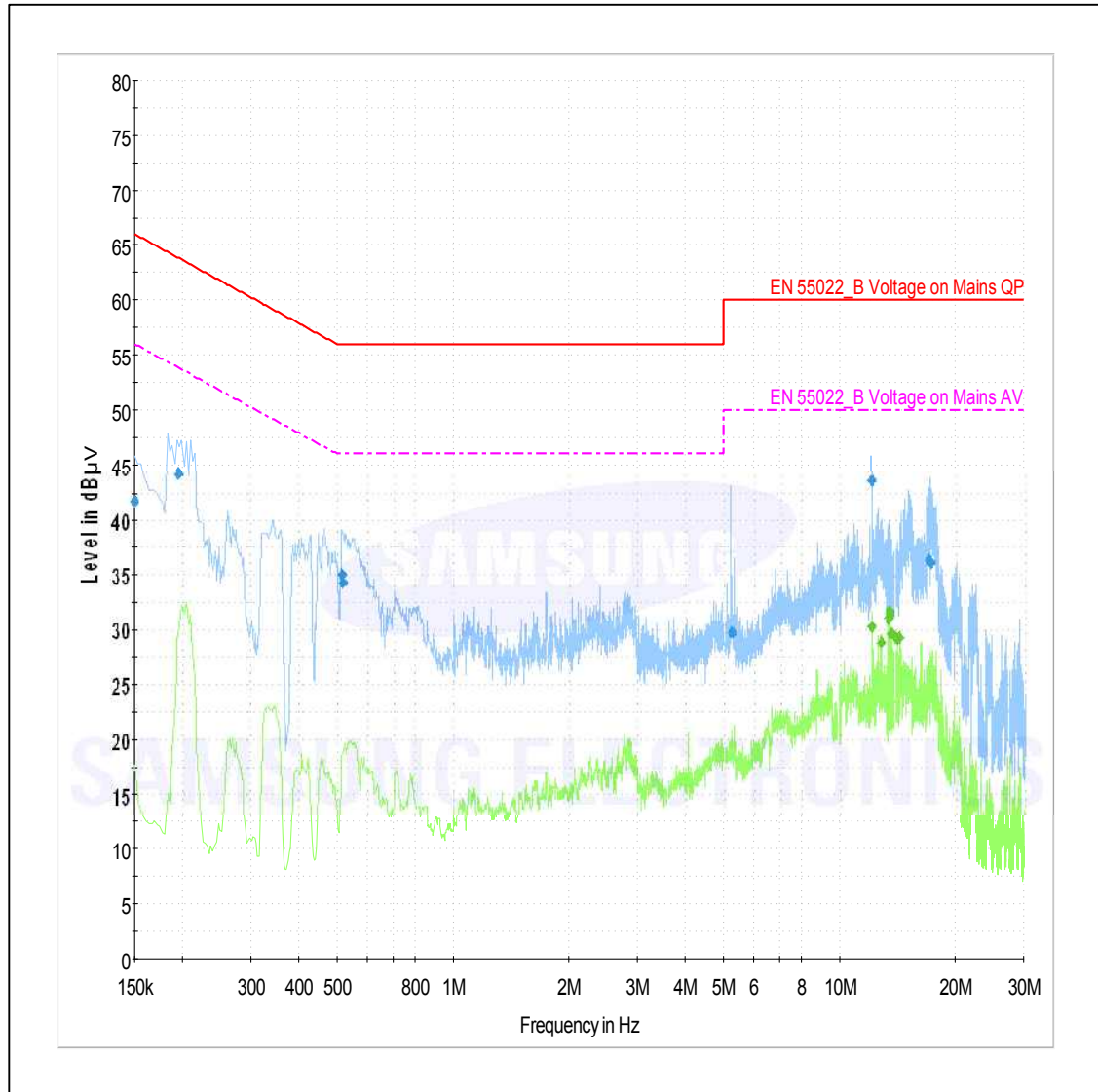
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.2	30.558	9.0	L1	9.3	23.1	53.6
0.209	29.209	9.0	L1	9.3	24.1	53.3
0.267	25.081	9.0	L1	9.4	26.1	51.2
0.33	23.086	9.0	L1	9.4	26.4	49.5
0.528	21.109	9.0	L1	9.5	24.9	46
0.542	21.124	9.0	L1	9.5	24.9	46
0.776	18.247	9.0	N	9.5	27.8	46
1.855	16.511	9.0	N	9.6	29.5	46
2.472	17.2	9.0	N	9.6	28.8	46
4.168	22.155	9.0	L1	9.6	23.8	46

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 : Fax-Rx

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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.15	41.682	9.0	N	9.4	24.3	66
0.194	44.243	9.0	N	9.3	19.6	63.9
0.515	34.983	9.0	L1	9.5	21	56
0.518	34.289	9.0	L1	9.5	21.7	56
5.244	29.777	9.0	L1	9.6	30.2	60
12.069	43.675	9.0	N	9.7	16.3	60
16.981	36.318	9.0	L1	9.7	23.7	60
17.193	36.168	9.0	L1	9.7	23.8	60

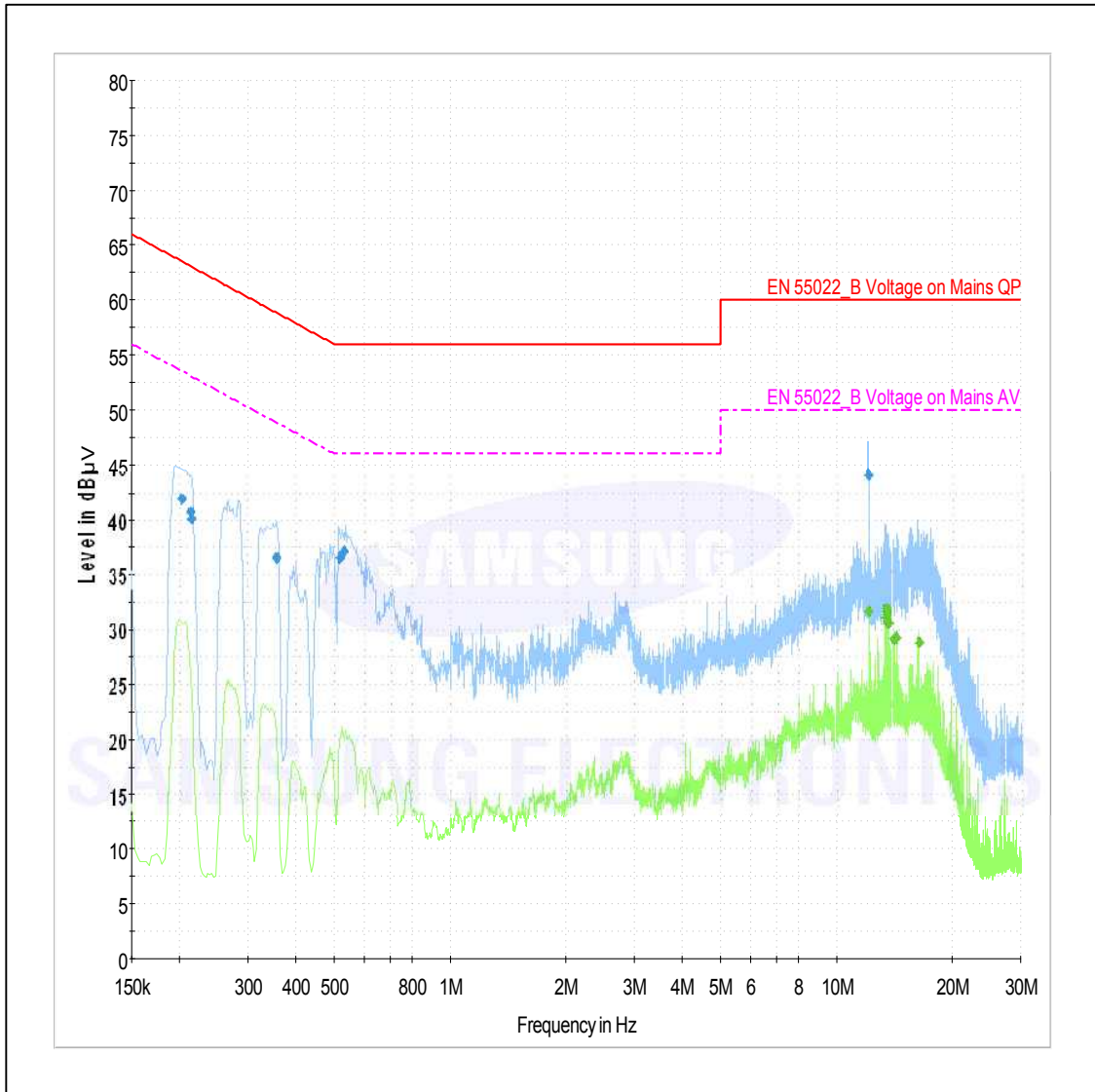
Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
12.069	30.228	9.0	L1	9.6	19.8	50
12.747	28.802	9.0	L1	9.7	21.2	50
13.357	31.099	9.0	L1	9.7	18.9	50
13.419	31.723	9.0	N	9.7	18.3	50
13.421	31.443	9.0	L1	9.7	18.6	50
13.601	29.606	9.0	L1	9.7	20.4	50
14.032	29.219	9.0	L1	9.7	20.8	50
14.153	29.34	9.0	L1	9.7	20.7	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 : Fax-Tx

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)

Quasi-peak final measurement results table

Frequency [MHz]	Quasi-Peak [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
0.202	42.013	9.0	N	9.3	21.5	63.5
0.214	40.827	9.0	N	9.4	22.2	63
0.215	40.197	9.0	N	9.4	22.8	63
0.356	36.612	9.0	N	9.4	22.2	58.8
0.516	36.652	9.0	L1	9.5	19.3	56
0.53	37.216	9.0	N	9.5	18.8	56
0.531	37.188	9.0	N	9.5	18.8	56
12.069	44.094	9.0	L1	9.6	15.9	60

Average final measurement results table

Frequency [MHz]	Average [dBuV]	Bandwidth [kHz]	Line	Factor [dB]	Margin [dB]	Limit [dBuV]
12.066	31.656	9.0	L1	9.6	18.3	50
13.357	31.092	9.0	L1	9.7	18.9	50
13.419	31.875	9.0	N	9.7	18.1	50
13.421	31.458	9.0	N	9.7	18.5	50
13.602	30.555	9.0	L1	9.7	19.4	50
14.032	29.212	9.0	L1	9.7	20.8	50
14.153	29.307	9.0	N	9.7	20.7	50
16.229	28.766	9.0	L1	9.7	21.2	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	Resolution Bandwidth	Quasi-peak Limits dB dB($\mu\text{V}/\text{m}$)	
		Class A	Class B
30 to 230	120 kHz	40	30
230 to 1000	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.			



Project No. : LBE093693



MONO LASER MFP : SCX-4623FW

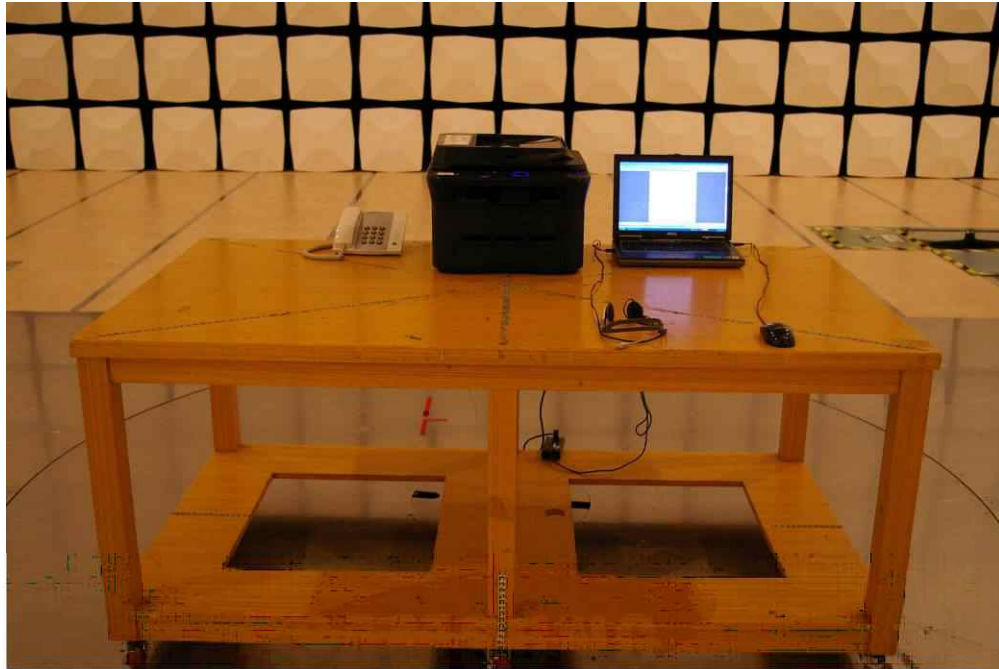
4.2.1 Test instrumentation

Test instrumentation	Manufacturer	Model name	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Bilog Antenna	Schaffner	CBL6112D	22602	2008-04-15	24
Bilog Antenna	Schaffner	CBL6112D	22604	2008-04-15	24
Horn Antenna	R&S	HF907	100016	2009-04-27	24
Test Receiver	R&S	ESIB-26	100287	2009-08-27	12
Test Receiver	R&S	ESIB-26	100147	2009-06-30	12
Amplifier	Sonoma	310N	185861	2009-01-28	12
Amplifier	Sonoma	310N	251676	2009-01-28	12
Amplifier	R&S	SCU_F018_G35_AS F42_CNN(F)	10001	2009-01-19	12
Antenna Mast	INN CO	MA4000	-	N/A	N/A
Antenna Mast	INN CO	MA4000	-	N/A	N/A
Mast Controller	INN CO	CO2000	-	N/A	N/A
Test software	TOYO	EP5/RE	VER 3.1.20	N/A	N/A
RF Selector	TOYO	NS4900	-	N/A	N/A
RF Selector	TOYO	NS4900	-	N/A	N/A

4.2.2 Temperature and humidity condition

Test date	December 01, 2009 ~ December 03, 2009	Test engineer	Ho Jin Choi
Test place	Semi-Anechoic Chamber		

4.2.3 Photograph of Test Setup



Front



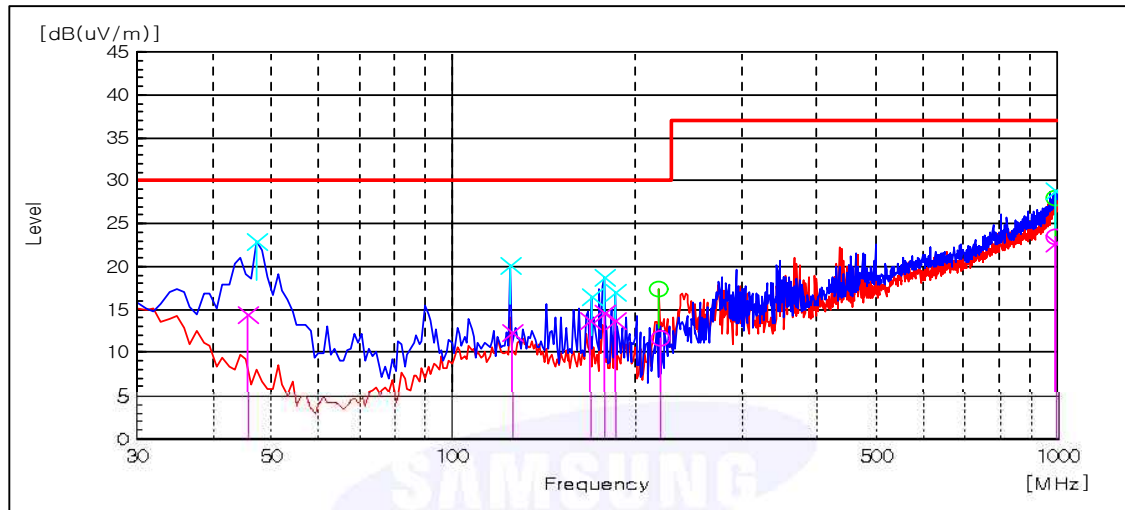
Rear

4.2.4 Test results

4.2.4.1 Below 1GHz results

- Operating Mode : Standby

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]
45.57	V	35.9	-21.6	14.3	30	15.7	320	199
125.62	V	29.6	-17.2	12.4	30	17.6	250	189
168.63	V	33.2	-19.5	13.7	30	16.3	150	315
178.64	V	34.7	-20.1	14.6	30	15.4	150	315.6
186.16	V	33.6	-19.9	13.7	30	16.3	150	313.2
220.60	H	33.2	-21.5	11.7	30	18.3	250	358.1
994.32	H	25.5	-2.1	23.4	37	13.6	350	189.6
996.165	V	22.8	0	22.8	37	14.2	350	305.1

Note) Receiving antenna polarization : Horizontal and/or Vertical

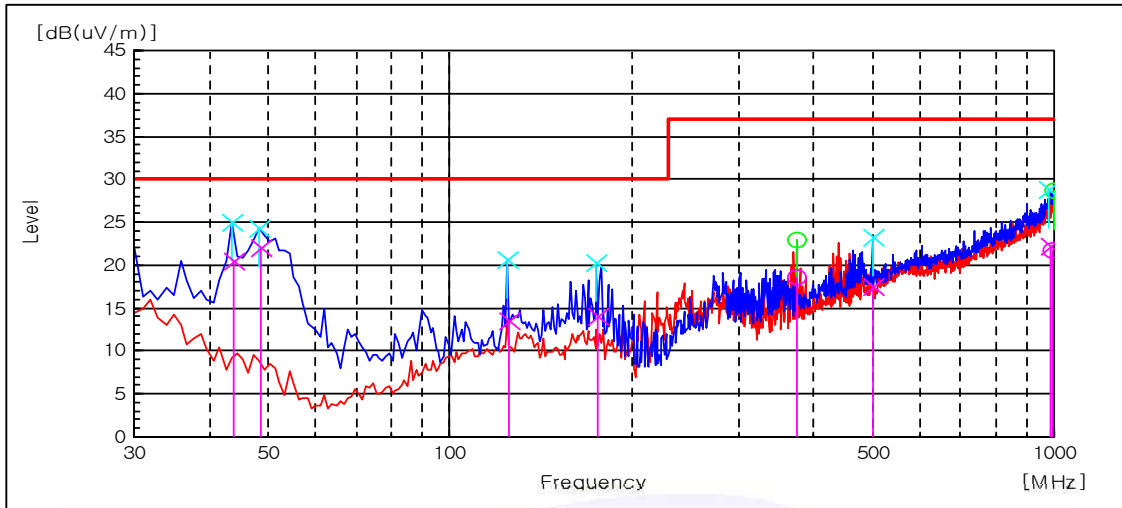
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode : USB Printing

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]
43.83	V	41.2	-20.8	20.4	30	9.6	106	310
48.49	V	44.7	-22.7	22.0	30	8.0	162	63
125.38	V	30.7	-17.2	13.5	30	16.5	150	263
175.60	V	34.1	-20.0	14.1	30	15.9	150	291.9
375.32	H	32.6	-14.0	18.6	37	18.4	350	228.6
501.65	V	26.0	-8.5	17.5	37	19.5	150	171.3
984.54	V	22.5	-0.2	22.3	37	14.7	350	71.6
996.052	H	23.7	-2	21.7	37	15.3	150	0.8

Note) Receiving antenna polarization : Horizontal and/or Vertical

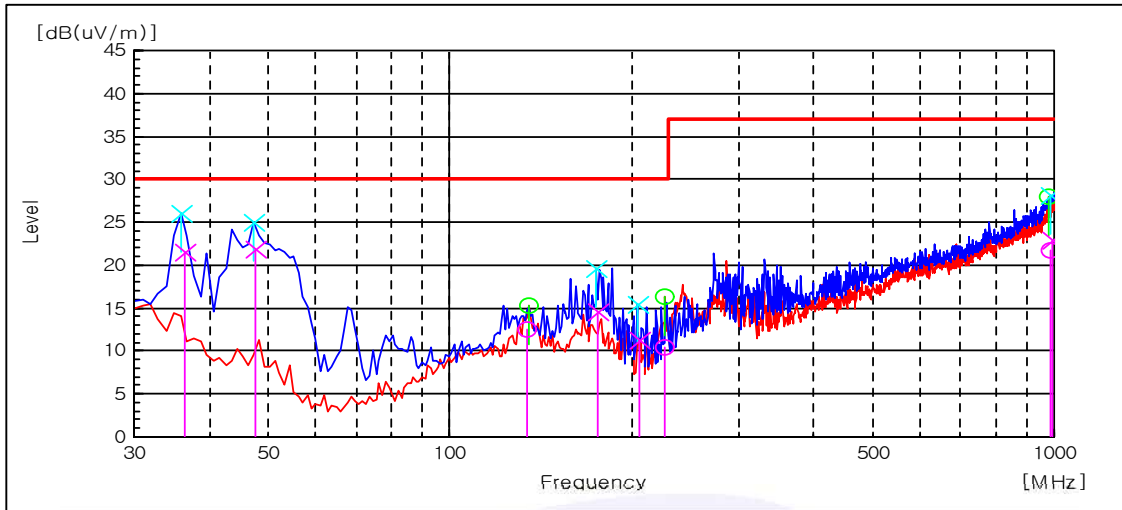
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode : Network Printing

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]
36.41	V	38.5	-16.9	21.6	30	8.4	100	301
47.50	V	44.1	-22.3	21.8	30	8.2	283	87
134.16	H	31.4	-18.9	12.5	30	17.5	350	110
175.61	V	34.6	-20.0	14.6	30	15.4	150	316.2
205.33	V	30.9	-19.6	11.3	30	18.7	150	234.3
226.51	H	31.3	-20.9	10.4	30	19.6	350	49.3
983.17	H	24.4	-2.6	21.8	37	15.2	350	13.9
990.325	V	23	-0.1	22.9	37	14.1	350	331.2

Note) Receiving antenna polarization : Horizontal and/or Vertical

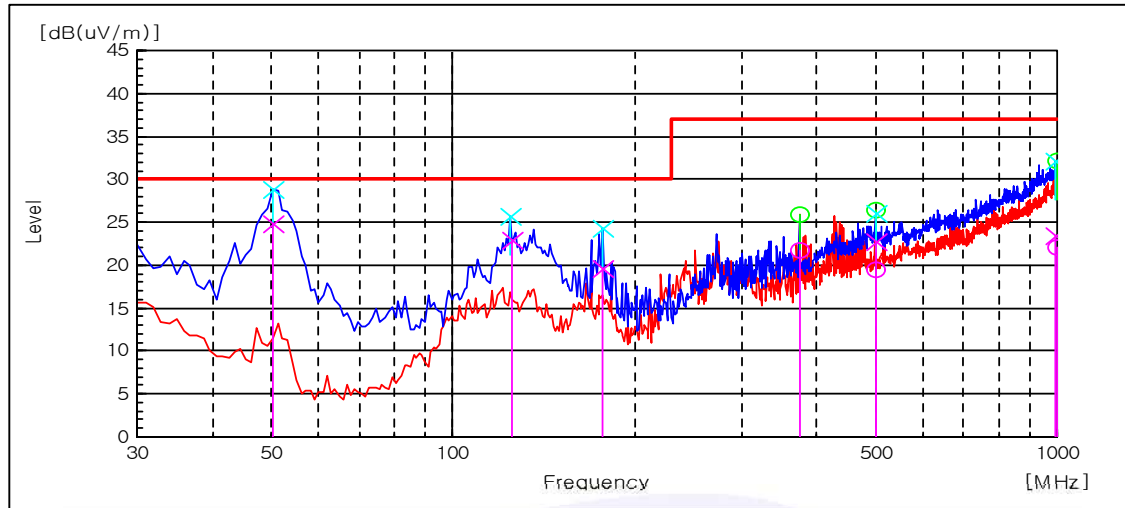
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode : Wireless Network Printing

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]
50.29	V	48.0	-23.1	24.9	30	5.1	351	0
125.00	V	40.1	-17.2	22.9	30	7.1	150	237
177.18	V	38.9	-19.3	19.6	30	10.4	150	273
375.40	H	33.6	-11.9	21.7	37	15.3	351	133.1
501.35	H	28.1	-8.7	19.4	37	17.6	251	16.9
502.16	V	30.9	-8.1	22.8	37	14.2	150	293.1
992.64	V	23.4	0.0	23.4	37	13.6	351	209.1
998.612	H	22.4	-0.3	22.1	37	14.9	151	209.3

Note) Receiving antenna polarization : Horizontal and/or Vertical

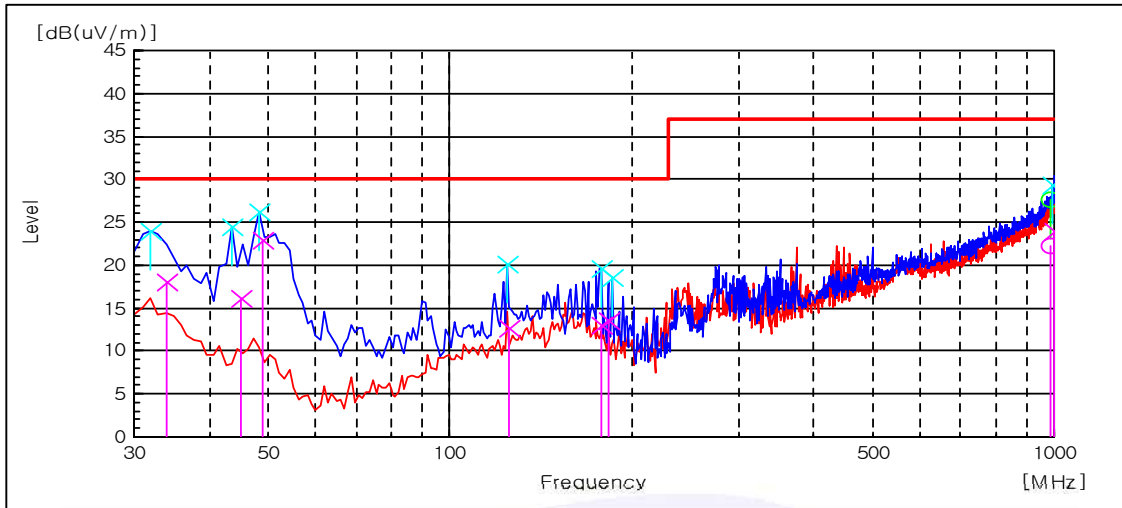
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode : ADF Copy Printing

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]
43.83	V	41.2	-20.8	20.4	30	9.6	106	310
48.49	V	44.7	-22.7	22.0	30	8.0	162	63
125.38	V	30.7	-17.2	13.5	30	16.5	150	263
175.60	V	34.1	-20.0	14.1	30	15.9	150	291.9
375.32	H	32.6	-14.0	18.6	37	18.4	350	228.6
501.65	V	26.0	-8.5	17.5	37	19.5	150	171.3
984.54	V	22.5	-0.2	22.3	37	14.7	350	71.6
996.052	H	23.7	-2	21.7	37	15.3	150	0.8

Note) Receiving antenna polarization : Horizontal and/or Vertical

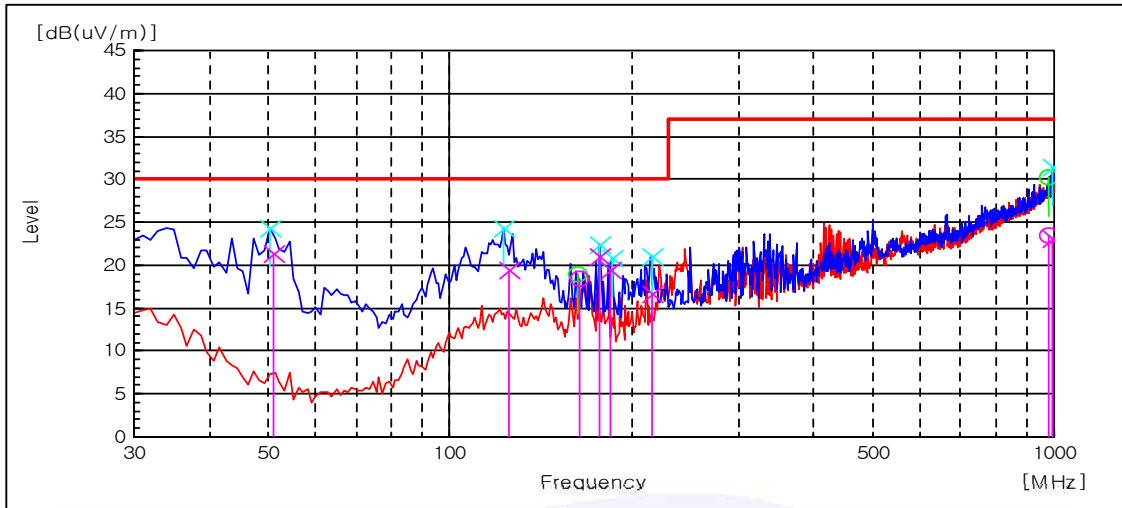
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode : Scan to PC

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]
51.12	V	44.8	-23.4	21.4	30	8.6	236	78
124.89	V	36.7	-17.2	19.5	30	10.5	150	316
164.30	H	38.0	-19.6	18.4	30	11.6	352	347
177.31	V	40.3	-19.3	21.0	30	9.0	150	315.5
184.14	V	39.0	-19.5	19.5	30	10.5	150	299.5
216.53	V	36.0	-19.3	16.7	30	13.3	250	184.2
978.16	H	24.1	-0.6	23.5	37	13.5	151	222.3
995.761	V	23	0	23	37	14	350	235.8

Note) Receiving antenna polarization : Horizontal and/or Vertical

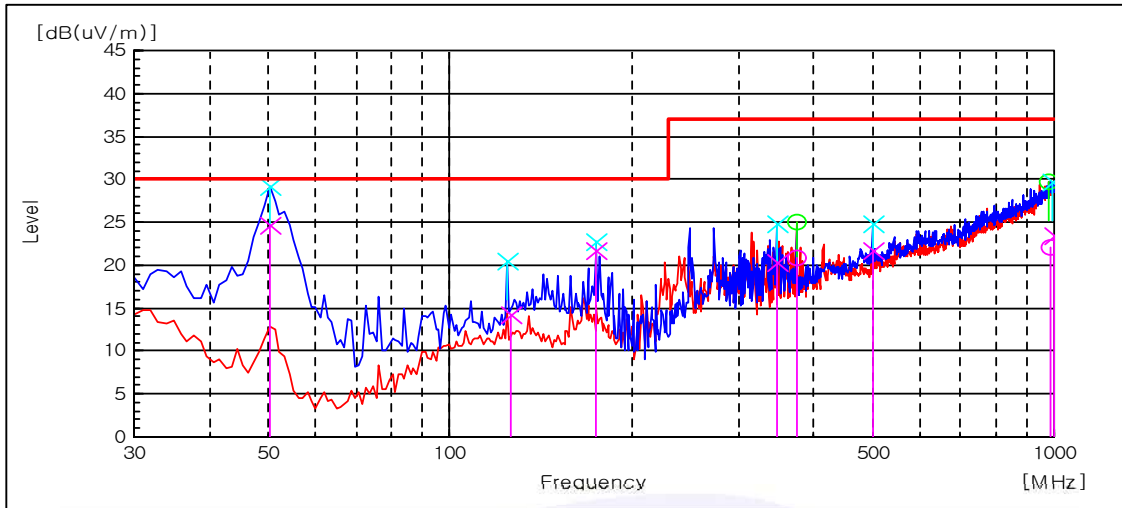
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode : Fax-Rx

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]
50.29	V	47.8	-23.1	24.7	30	5.3	351	39
174.89	V	41.1	-19.3	21.8	30	8.2	150	327
996.64	V	23.4	0.1	23.5	37	13.5	351	354
984.30	H	22.6	-0.5	22.1	37	14.9	151	239.5
125.69	V	31.4	-17.2	14.2	30	15.8	150	299.1
375.64	H	32.6	-11.8	20.8	37	16.2	351	223.4
501.64	V	29.8	-8.1	21.7	37	15.3	150	38.2
347.165	V	32.8	-12.5	20.3	37	16.7	351	12.4

Note) Receiving antenna polarization : Horizontal and/or Vertical

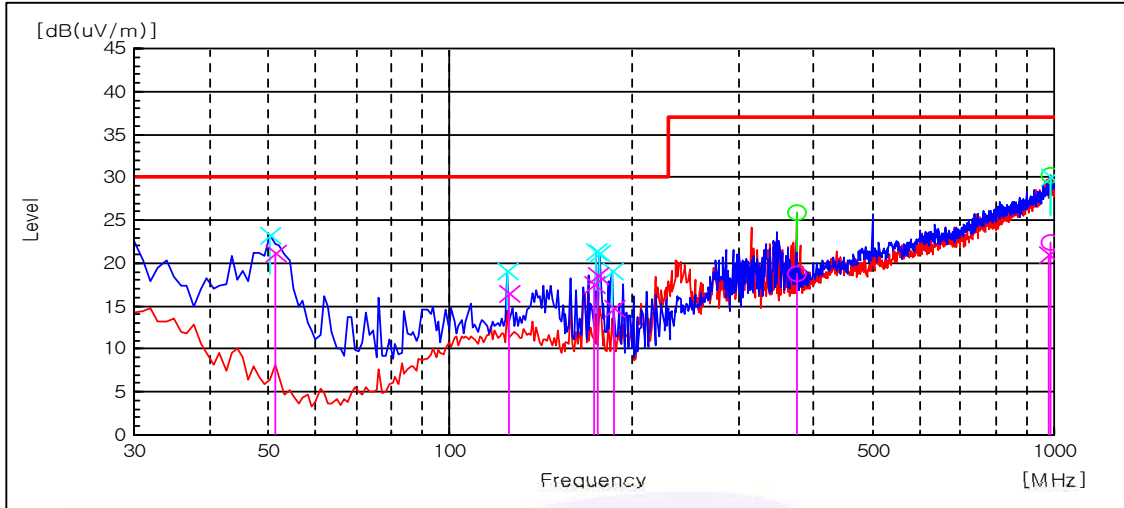
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode : Fax-Tx

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]
51.26	V	44.6	-23.4	21.2	30	8.8	350	14
125.36	V	33.7	-17.2	16.5	30	13.5	250	264
173.40	V	36.9	-19.3	17.6	30	12.4	150	245
175.62	V	37.9	-19.3	18.6	30	11.4	150	245.3
186.50	V	34.3	-19.6	14.7	30	15.3	150	286.2
375.36	H	30.7	-11.9	18.8	37	18.2	248	183.2
982.69	V	21.4	-0.3	21.1	37	15.9	350	176.8
987.62	H	22.8	-0.4	22.4	37	14.6	350	67.6

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

4.2. Above 1GHz results

- Operating Mode : Stand by

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]
1250.50	V	48.8	-7.8	41.0	74	33.0	100	356
1334.67	V	46.6	-6.9	39.7	74	34.3	100	135
1953.91	V	47.4	-1.9	45.5	74	28.5	100	51
1989.98	H	47.1	-1.7	45.4	74	28.6	100	110.8

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]
1252.46	V	20.2	-7.8	12.4	54	41.6	100	356
1336.87	V	18.8	-6.8	12.0	54	42.1	100	138
1956.96	V	13.4	-1.9	11.5	54	42.5	142	193
1987.68	H	11.9	-1.7	10.2	54	43.8	100	112.4

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)

- Operating Mode : USB Printing

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]
1250.50	V	48.6	-7.8	40.8	74	33.2	100	360
1501.00	V	47.0	-5.0	42.0	74	32.0	100	138
1975.95	H	47.3	-1.8	45.5	74	28.5	100	285
1981.96	V	47.6	-1.7	45.9	74	28.1	100	90.7

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]
1252.35	V	19.2	-7.8	11.4	54	42.6	100	357
1503.63	V	16.9	-5.0	11.9	54	42.1	100	136
1977.62	H	12.7	-1.8	10.9	54	43.1	100	287
1983.66	V	13.9	-1.7	12.2	54	41.8	100	90.1

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)

- Operating Mode : Network Printing

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]
1174.35	V	50.2	-8.1	42.1	74	31.9	100	217
1336.67	H	52.7	-6.8	45.9	74	28.1	100	158
1957.92	V	47.2	-1.9	45.3	74	28.7	100	360
1998.00	H	48.1	-1.7	46.4	74	27.6	100	268.4

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]
1176.28	V	18.4	-8.1	10.3	54	43.7	100	220
1334.60	H	16.6	-6.9	9.7	54	44.3	100	158
1959.32	V	13.1	-1.9	11.2	54	42.8	100	358
1999.89	H	18.0	-1.7	16.3	54	37.7	100	267.7

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)

- **Operating Mode : Wireless Network Printing**

Peak Measurement

Frequency [MHz]	POL	Reading PK [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]
1328.66	V	58.0	-6.9	51.1	74	22.9	100	5
1496.99	V	57.9	-5.1	52.8	74	21.2	100	122
1659.32	V	60.5	-4.1	56.4	74	17.6	100	217
1663.33	H	55.3	-4.1	51.2	74	22.8	100	0.6
1713.43	H	55.5	-4.0	51.5	74	22.5	100	174.4

Average Measurement

Frequency [MHz]	POL	Reading AV [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit [dB(μV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
1327.79	V	27.1	-7.0	20.1	54	33.9	100	5
1496.24	V	18.1	-5.1	13.0	54	41.0	100	122
1663.06	V	24.9	-4.1	20.8	54	33.2	100	216
1660.33	H	21.0	-4.1	16.9	54	37.1	100	1.2
1709.23	H	15.7	-4.0	11.7	54	42.3	100	173.8

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)

- **Operating Mode : ADF Copy Printing**

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]
1162.33	V	49.2	-8.2	41.0	74	33.0	100	332
1583.17	V	48.3	-4.5	43.8	74	30.2	100	316
1937.88	H	47.2	-2.1	45.1	74	28.9	100	355
1975.95	V	47.4	-1.8	45.6	74	28.4	100	125.9

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]
1163.61	V	18.6	-8.2	10.4	54	43.6	100	333
1584.63	V	12.7	-4.4	8.3	54	45.8	100	316
1936.32	H	14.5	-2.1	12.4	54	41.6	100	356
1971.07	V	13.6	-1.8	11.8	54	42.2	100	126.3

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)

- **Operating Mode : Scan to PC**

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]
1326.65	V	51.5	-7.0	44.5	74	29.5	100	356
1991.98	H	47.7	-1.7	46.0	74	28.0	100	301
1995.99	V	48.4	-1.7	46.7	74	27.3	100	154

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]
1328.45	V	28.4	-6.9	21.5	54	32.5	100	265
1991.43	H	17.9	-1.7	16.2	54	37.8	154	239
1995.99	V	17.8	-1.7	16.1	54	37.9	100	154

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)

- Operating Mode : Fax-Rx

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]
1250.50	V	48.3	-7.8	40.5	74	33.5	100	158
1577.15	V	48.0	-4.5	43.5	74	30.5	100	300
1949.90	H	47.6	-2.0	45.6	74	28.4	100	185
1953.91	V	47.5	-1.9	45.6	74	28.4	100	205

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]
1262.62	V	18.2	-7.7	10.5	54	43.6	100	159
1579.61	V	18.9	-4.5	14.4	54	39.6	100	302
1952.74	H	13.4	-1.9	11.5	54	42.5	100	185
1955.33	V	14.1	-1.9	12.2	54	41.8	100	206.3

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)

- Operating Mode : Fax-Tx

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]
1250.50	V	47.8	-7.8	40.0	74	34.0	100	360
1501.00	V	46.4	-5.0	41.4	74	32.6	100	4
1955.91	H	47.3	-1.9	45.4	74	28.6	100	312
1979.96	V	47.8	-1.7	46.1	74	27.9	100	188.8

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]
1252.63	V	20.3	-7.7	12.6	54	41.5	100	358
1503.50	V	15.8	-5.0	10.8	54	43.2	100	7
1957.36	H	15.8	-1.9	13.9	54	40.1	100	314
1976.36	V	13.8	-1.8	12.0	54	42.0	100	189.5

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 1 – EUT photography



Front View



Rear View



Inside View (1)



Label Location



Project No. : LBE093693



MONO LASER MFP : SCX-4623FW



USOC Jack Type:RJ11C
Samsung Electronics Co., Ltd.
Suwon, Korea, 443-742
Place:M264

Model: SCX-4623FW
Volts: AC 110-127V
Hertz: 50/60Hz
Amps: 5.0A
Ringer Equivalence: ?B
Manufactured:

 **51Y7**
US E149091
LISTED I.T.E.

FCC ID: A3LSCX4623FW (Printer)
FCC ID: A3LSWL-2920U (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.
Complies with Part 68, FCC Rules.
FCC Certification No.: US: A3LFA??BSCX4623FW
This product complies with 21 CFR Chapter 1, subchapter J.
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.
Canadian Certification Number(RSS-210): 649E-SWL2920U (WLAN)
IC: 649E-SCX4623FW

Serial No.:

Made in China
Fabriqué en Chine REV.00

Label



SAMSUNG ELECTRONICS