

EMC TEST REPORT

Project No.	LBE20115493	Revision No.	NONE
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	18600 Broad wick St. Rancho Dominguez CA 90220	
	Date of application	November 08,2011	
EUT Equipment Under Test	Type of device	Class B personal computers and peripherals	
	Equipment authorization	<input type="checkbox"/> Declaration of Conformity <input checked="" type="checkbox"/> Certification <input type="checkbox"/> Verification	
	Kind of product	LED MONITOR	
	Model No.	LS24B350	
		Variant Model No.	None
Manufacturer	Tianjin Samsung Electronics Co., LTD. Weisi Rd. Micro-Electronic Industrial Park, Jingang Rd. Xiqing Dist, Tianjin, 300385 China		
Applied Standards	FCC Part 15, Subpart B class B		
	ANSI C63.4-2009		
Test period	November 08,2011~ November 11,2011		
Issue date	November 11,2011		

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 : Xinxing Fu



Reviewed by : Xiao Li



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 CSQAL



TSEC Wei 4 Road, Microelectronics Industrial Park, Jingang High way, Tianjin, China
 Tel: 86 22 23961234, Fax: 86 22 23961234-5214

According to Sec. 2.1077, 47 CFR of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Equipment EUT Type	Class B personal computers and peripherals
Kind of product	LED Monitor
Trade Name	Samsung Electronics
Model	LS24B350
Applied Rules	FCC Part 15, Subpart B Class B
	ANSI C63.4-2009
Manufacturer	Tianjin Samsung Electronics Co., LTD. Weisi Rd. Micro-Electronic Industrial Park, Jingang Rd. Xiqing Dist, Tianjin,300385 China

We hereby *declare that* the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC Rules under the most accurate measurement standards possible, and that all the necessary steps have been taken and are in force to assure that production units of the same equipment will continue to comply with the Commission's requirements.


U.S. RESPONSIBLE PARTY	Samsung Electronics America QA Lab 18600 Broad wick St. Rancho Dominguez CA 90220
CONTACT PERSON	 <u>Mr. Peter Ra, Manager</u> E-Mail : raaaa@samsung.com Tel : 1-310-900-5250 Fax : 1-310-537-5500

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1. Summary of test results

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result	Remarks
<input checked="" type="checkbox"/>	Conducted Disturbance	FCC Part 15 Subpart B	Complied	Meets Class B Limit
<input checked="" type="checkbox"/>	Radiated Disturbance		ANSI C63.4-2009	Complied

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

2. General Information

2.1 Test facility

The following firm has submitted the information required by Section 2.948 of the FCC Rules for measuring devices subject to Certification under Parts 15 & 18. The FCC takes no responsibility regarding the capability of this firm for performing the required measurements. Accordingly, this firm should not advertise or otherwise imply FCC approval of CSQAL.

CHINA SAMSUNG QUALITY ASSURANCE LABORATORY is LOCATED ON Block D, 17 - 19, Wei 4 Road, Microelectronics Industrial Park, Jingang Highway, Tianjin China.

Registration Number: 745769

E-mail Address: xiaoli@samsung.com

Phone Number: 86-22-2396-1234-5211

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.

CSQAL is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

2.2 Accreditation and listing

Laboratory Qualifications		Remarks
	FCC(Federal Communications Commission)	Number: 745469
	Korea Communications Commission Radio Research Agency	Accredited : KR0148
	KC (Korean Testing Laboratory)	KTL-002/SMT
	VCCI (Voluntary Control Council for Interference by Information Technology Equipment)	Member No: 271
	CNAS(China National Accreditation Service for Conformity Assessment)	L5281
	NVLAP(National Voluntary Laboratory Accreditation Program)	CODE: 500036-0

3. Test Setup configuration

3.1 Test Peripherals

The peripherals which were interconnected to the EUT during the test are as follows:

Item	Model No.	Serial No.	Manufacturer	Note
LED Monitor	LS24B350	-	Samsung	EUT
ADAPTER	AD-3014N	CN07BN4400394DSE38B9D2Z0	Samsung	FOR EUT
PC	DM-V200-PA15	ZLPZ9WAZ600123A	Samsung	-
PC	Inspiron 580s	2GRNV2X	Dell	-
USB Keyboard	SK-8185	OY526K	Dell	-
USB Mouse	MOC5UO	J0G00G9L	Dell	-
Printer	ML-2545	Z6FJBACB600011N	Samsung	-

3.2 EUT operating mode(s)

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

Operating Mode 1	D-Sub (PC Video IN or Analog) IN Display
Operating Mode 2	HDMI IN Display

3.3 Details of Sampling

Customer selected, single unit.

3.4 Cable description

The type(s) of cables which were connected to the ports (of the EUT) are as follows:

No	Connect Cable	Length [m]	Ferrite core [Y/N]	Remark
1	VGA in	1.5	Y	To PC
2	HDMI in	1.8	N	To PC
3	POWER	1.8	N	FOR EUT

3.5 EUT Description

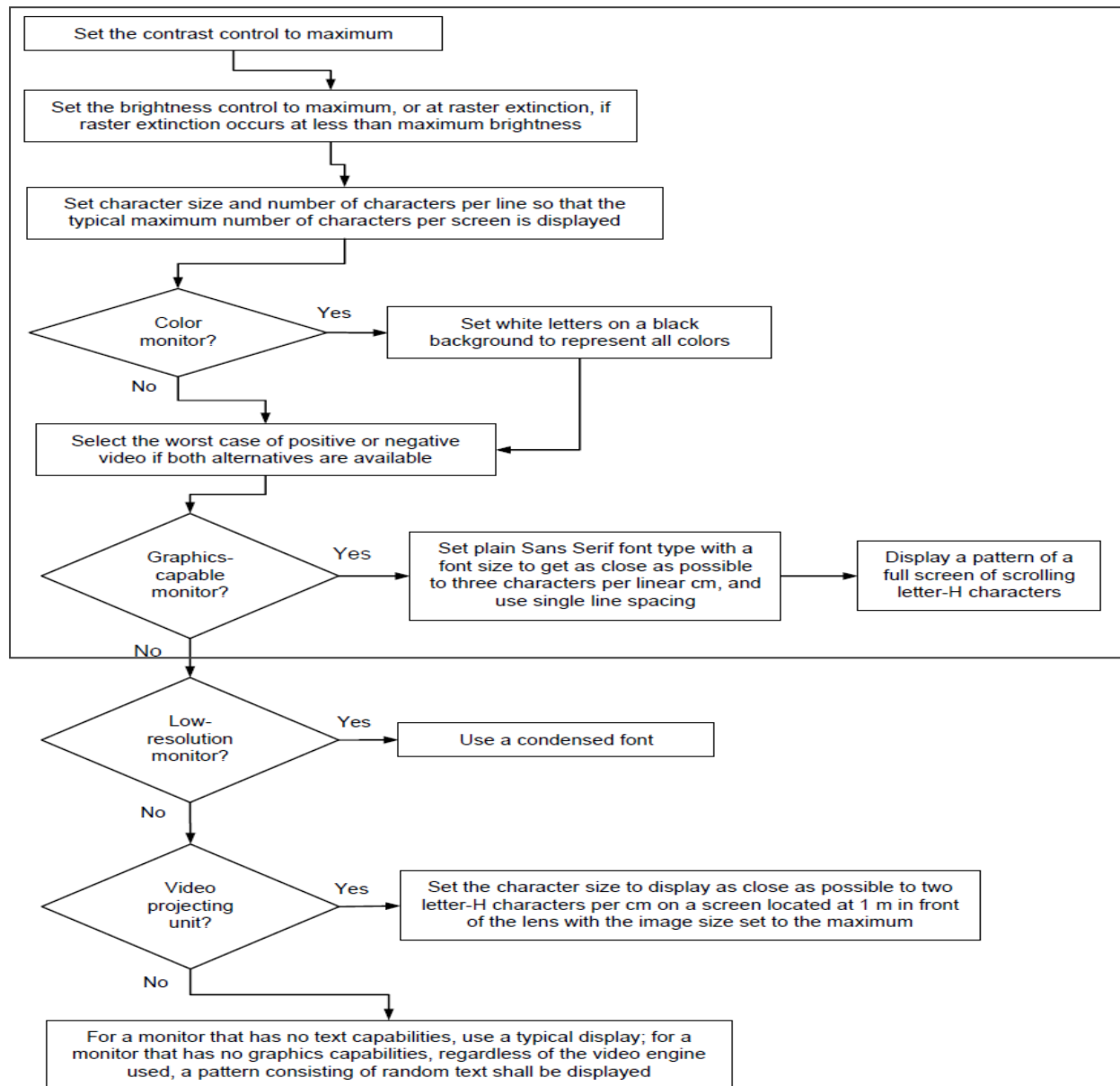
The following features describe EUT represented by this report:

MODEL NAME		S24B350H
Panel	Size	24 inches (58 cm)
	Display area	531.36 mm(H) X 298.89 mm(V)
	Pixel Pitch	0.27675 mm (H) x 0.27675 mm (V)
Synchroniza- tion	Horizontal	30 ~ 81 kHz
	Vertical	56 ~ 75 Hz
Display Color		16.7M
Resolution	Optimum resolution	1920x1080 @ 60Hz
	Maximum resolution	1920x1080 @ 60Hz
Input Signal, Terminated		RGB Analog,HDMI(High Definition Multimedia Interface) 0.7 Vp-p \pm 5% separate H/V sync, Composite, SOG TTL level (V high \geq 2.0V, V low \leq 0.8V)
Maximum Pixel Clock		164MHz (Analog)
Power Supply		This product supports 100-240 V.Since the standard voltage may differ from country to country, please check the label on the back of the product.
Signal Cable		15pin-to-15pin D-sub cable, Detachable HDMI to DVI Cable,Detachable; HDMI Cable,Detachable
Dimensions (WxHxD) / Weight		-----
Environmen- tal consider- ations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity :10 % ~ 80 %, non-condensing
	Storage	Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing
Tilt		0°(\pm 2°) ~ 20°(\pm 2°)

3.6 Description of the EUT exercising method

The EUT exercise program used during EMI testing was CSQAL standardized test program for MS Windows. The program repetitively sends a screen of H – Character to the display. Connect video output of computer on EUT's PC IN (D-sub),HDMI port and scrolled H – character continuously on EUT's screen.

The EUT system includes a monitor, the operational conditions shown as follows, within the selected area.



- Notes:**
1. Set the brightness control to maximum
 2. Set the contrast control to maximum
 3. Display a pattern of a full screen of scrolling letter-H characters with a font size to get as close as possible to three characters per linear cm and use single line spacing

3.7 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)
Disturbance voltage at the mains terminals			2.9 dB
Radiated Disturbance	Horizontal	30 MHz - 1 GHz	3.86 dB
	Vertical	30 MHz - 1 GHz	4.90 dB
	Horizontal	1GHz - 6 GHz	3.964 dB
	Vertical	1GHz - 6 GHz	3.964 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	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Note 1: 1 μ V is regarded as 0 dB.
 Note 2: The limits shall decrease linearly with the logarithm of the frequency in the range 150 – 500 kHz.
 Note 3: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector is unnecessary.
 Note 4: The lower limit shall apply at the transition frequency.

If the reading on the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 seconds at each measurement frequency, the highest reading shall be recorded, with the exception of any brief isolated high reading (which shall be ignored).

4.1.1 Test instrumentation

Test instrumentation used in the Conducted disturbance test was as follows:

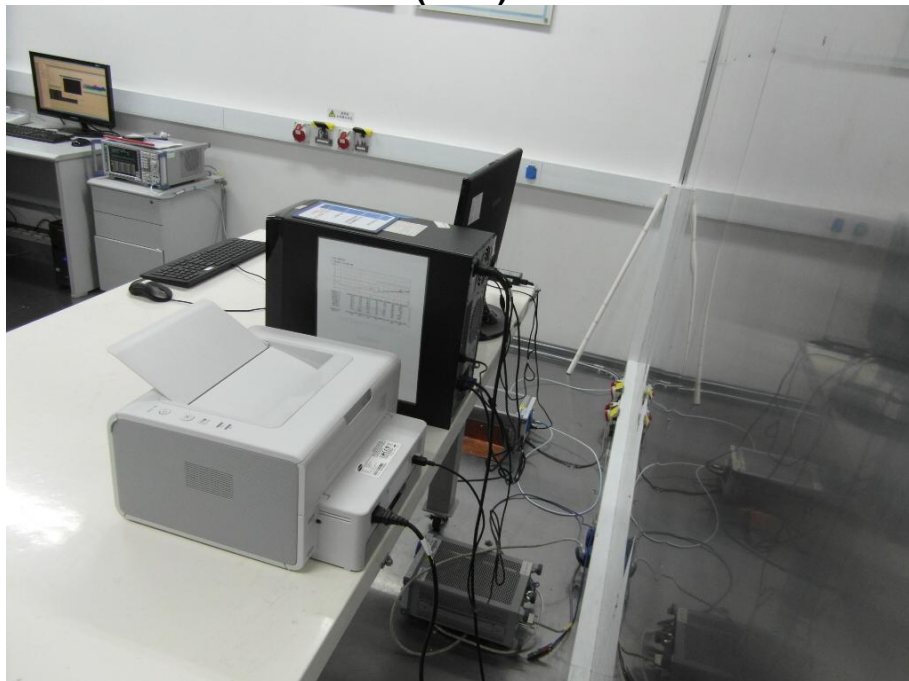
Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5CE	TOYO	V 4.7.10	N/A	N/A
Measuring receiver	ESCI	R&S	101027	2011.03.26	12
Artificial mains network	ENV216	R&S	101122	2011.08.23	12
Artificial mains network	ENV216	R&S	101059	2011.08.23	12
ISN	ISN T800	TESEQ	28602	2011.03.02	12
ISN	ISN T8-CAT6	TESEQ	27286	2011.03.02	12

4.1.2 Photograph of the test Configuration

(Front)



(Rear)



4.1.3 Test results

Test date	2011.11.08		Test engineer		Xinxing Fu	
Climate condition	Ambient temperature	24 °C	Relative humidity	21%	Atmospheric pressure	101.5 kPa
	Test place Shielded Room #2					

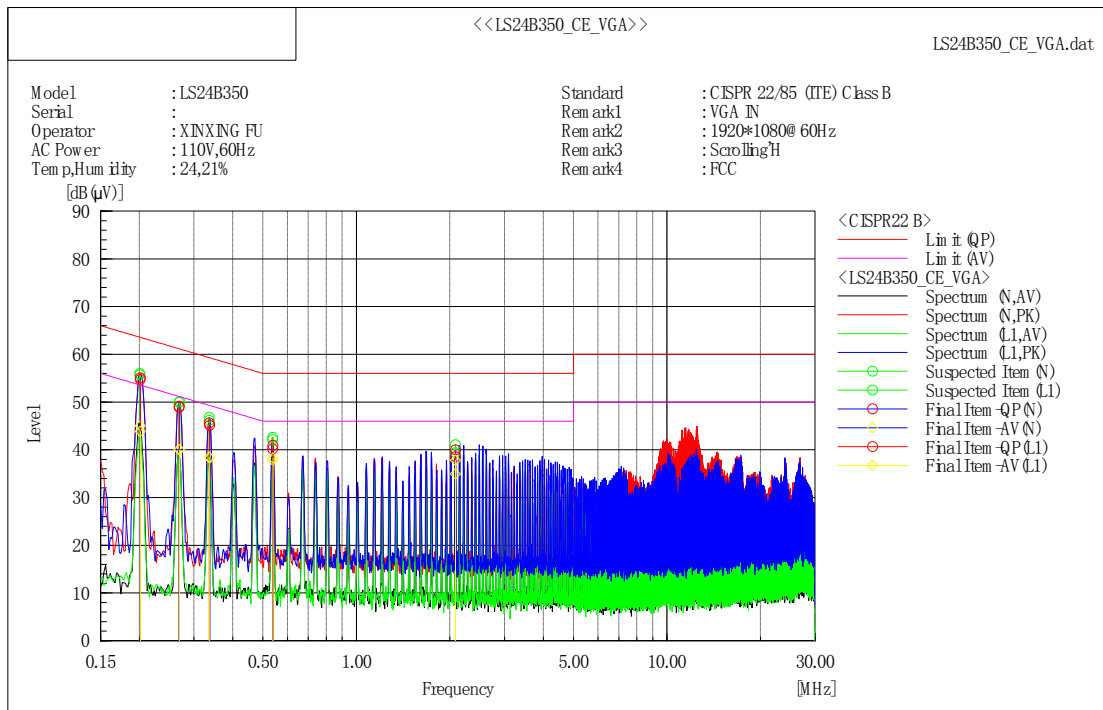
4.1.4 Test data

■ Operating Mode: VGA IN

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800*600@60Hz, 1024*768@60Hz, 1920*1080@60Hz), then choose the worst one (1920*1080@60Hz) for final evaluation.



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB (µV)]	Reading AV [dB (µV)]	c. f [dB]	Result QP [dB (µV)]	Result AV [dB (µV)]	Limit QP [dB (µV)]	Limit AV [dB (µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.20141	45.5	35.4	9.6	55.1	45.0	63.6	53.6	8.5	8.6	
2	0.26859	39.3	30.5	9.6	48.9	40.1	61.2	51.2	12.3	11.1	
3	0.33701	35.5	28.6	9.6	45.1	38.2	59.3	49.3	14.2	11.1	
4	0.53735	30.5	28.3	9.6	40.1	37.9	56.0	46.0	15.9	8.1	
5	2.08538	28.9	25.3	9.6	38.5	34.9	56.0	46.0	17.5	11.1	

--- L1 Phase ---

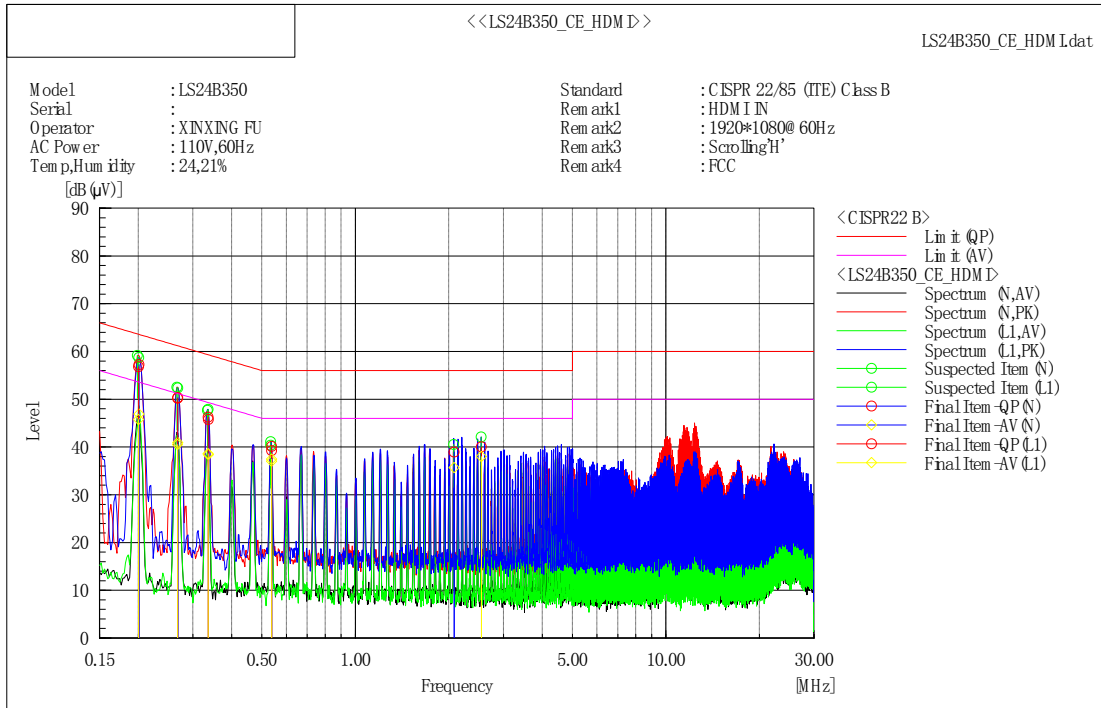
No.	Frequency [MHz]	Reading QP [dB (µV)]	Reading AV [dB (µV)]	c. f [dB]	Result QP [dB (µV)]	Result AV [dB (µV)]	Limit QP [dB (µV)]	Limit AV [dB (µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.20127	45.1	34.2	9.6	54.7	43.8	63.6	53.6	8.9	9.8	
2	0.26905	39.5	30.4	9.6	49.1	40.0	61.1	51.1	12.0	11.1	
3	0.33581	36.0	28.8	9.6	45.6	38.4	59.3	49.3	13.7	10.9	
4	0.53825	31.3	28.7	9.6	40.9	38.3	56.0	46.0	15.1	7.7	
5	2.08526	30.4	28.2	9.6	40.0	37.8	56.0	46.0	16.0	8.2	

■ Operating Mode: HDMI IN

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800*600@60Hz, 1024*768@60Hz, 1920*1080@60Hz), then choose the worst one (1920*1080@60Hz) for final evaluation.



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB (µ V)]	Reading AV [dB (µ V)]	c. f [dB]	Result QP [dB (µ V)]	Result AV [dB (µ V)]	Limit QP [dB (µ V)]	Limit AV [dB (µ V)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.20108	47.6	37.3	9.6	57.2	46.9	63.6	53.6	6.4	6.7	
2	0.26816	40.7	31.3	9.6	50.3	40.9	61.2	51.2	10.9	10.3	
3	0.33617	36.1	28.8	9.6	45.7	38.4	59.3	49.3	13.6	10.9	
4	0.5374	29.6	27.4	9.6	39.2	37.0	56.0	46.0	16.8	9.0	
5	2.08154	29.3	26.1	9.6	38.9	35.7	56.0	46.0	17.1	10.3	

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB (µ V)]	Reading AV [dB (µ V)]	c. f [dB]	Result QP [dB (µ V)]	Result AV [dB (µ V)]	Limit QP [dB (µ V)]	Limit AV [dB (µ V)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.20051	47.2	36.1	9.6	56.8	45.7	63.6	53.6	6.8	7.9	
2	0.26749	40.6	30.9	9.6	50.2	40.5	61.2	51.2	11.0	10.7	
3	0.33547	36.6	29.0	9.6	46.2	38.6	59.3	49.3	13.1	10.7	
4	2.54921	30.3	28.3	9.7	40.0	38.0	56.0	46.0	16.0	8.0	
5	0.53729	30.5	27.9	9.6	40.1	37.5	56.0	46.0	15.9	8.5	

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 3 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

Above 1GHz, peak detector function mode was used with resolution bandwidth of 1 MHz and a video bandwidth of 1 MHz. If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency range Limits MHz	Quasi-peak Limits (microvolts/meter)
	Class B
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Note 1: The lower limit shall apply at the transition frequency.
 Note 2: Additional provisions may be required for cases where interference occurs.
 Note 3: 1 $\mu\text{V}/\text{m}$ is regarded as 0 dB.

Measurements above 1GHz were performed at an antenna to EUT distance of 3 meters and elevated 1 to 4 meters in FAC. Both vertical and horizontal antenna polarizations were measured.

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

Frequency range Limits MHz	Class B Limits dB($\mu\text{V}/\text{m}$)	
	Peak	Average
Above 1 000	74	54

Including the worst-case data points for each tested configuration.

4.2.1 Test instrumentation

Test instrumentation used in the Radiated disturbance was as follows:

30MHz~1GHz

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5/RE	TOYO	V 4.7.10	N/A	N/A
Bi-con Antenna	CBL6112D	SCHAFFNER	29069	2011.04.04	24
EMI Receiver	ESCI	R&S	101026	2011.03.26	12
AMPLIFIER	310N	SONOMA	300911	2011.08.23	12
Ant Mast	MA4000	INN CO	-	N/A	N/A
Mast Controller	CO2000	INN CO	-	N/A	N/A
RF Selector	NS4900N	TOYO	-	N/A	N/A

1GHz-2GHz

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	e3	AUDIX	6.110709d	N/A	N/A
Broad-Band Horn Antenna	BBHA9120B	Schwarzbeck	519	2011.04.05	24
EMI Receiver	ESU26	R&S	100243	2011.03.26	12
AMPLIFIER	AMF-4D-00500800-18-13P	TOYO	0934	2011.08.23	12
Ant Mast	AUDIX	AUDIX	-	N/A	N/A

4.2.2 Photograph of the test Configuration

30MHz~1GHz

(Front)

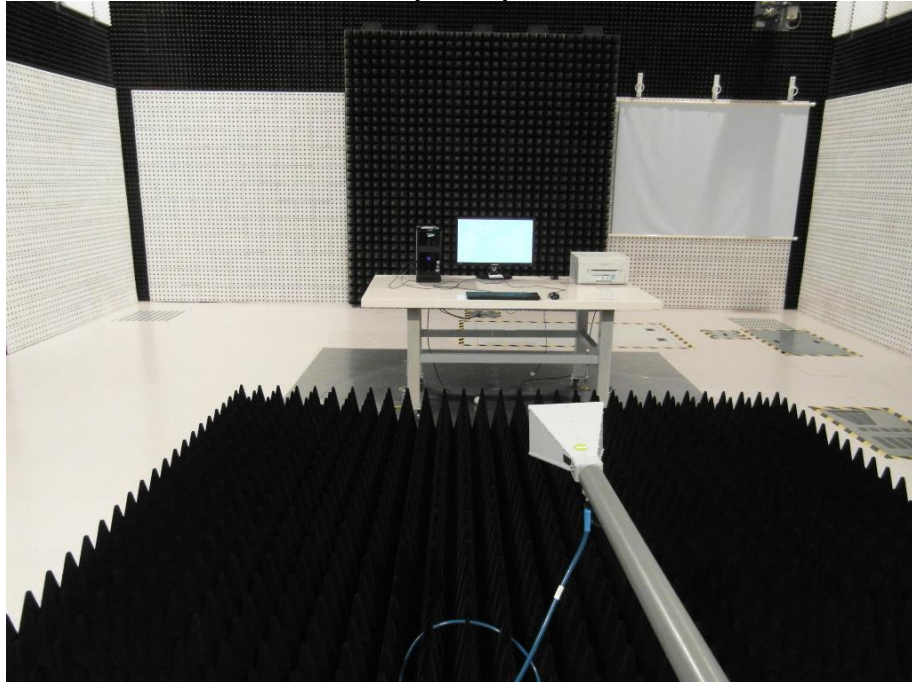


(Rear)



1GHz-2GHz

(Front)



(Rear)



4.2.3 Test results

30MHz~1GHz

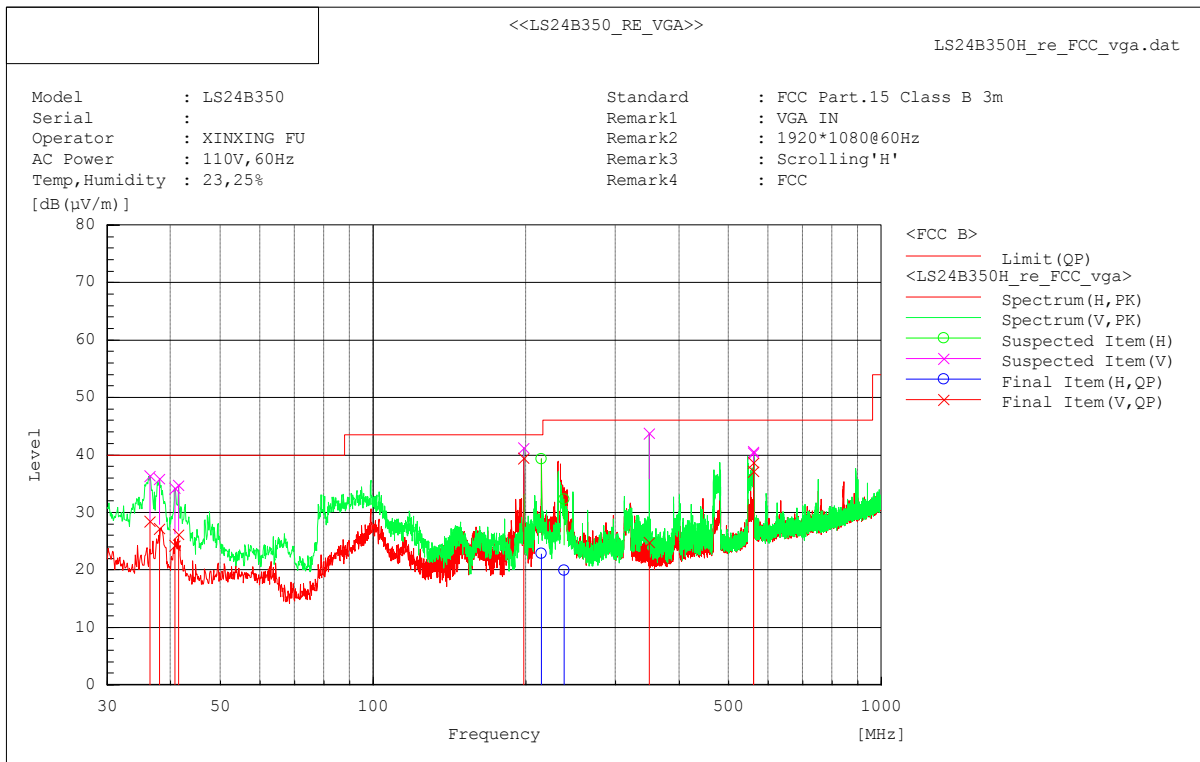
Test date	2011.11.09		Test engineer		Xinxing Fu	
Climate condition	Ambient temperature	24 °C	Relative humidity	36 %	Atmospheric pressure	101.3 kPa
	Test place 3m Semi-Anechoic Chamber					

■ **Operating Mode: D-Sub (PC Video IN or Analog) IN Display**

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800*600@60Hz, 1024*768@60Hz, 1920*1080@60Hz), then choose the worst one (1920*1080@60Hz) for final evaluation.



Final Result

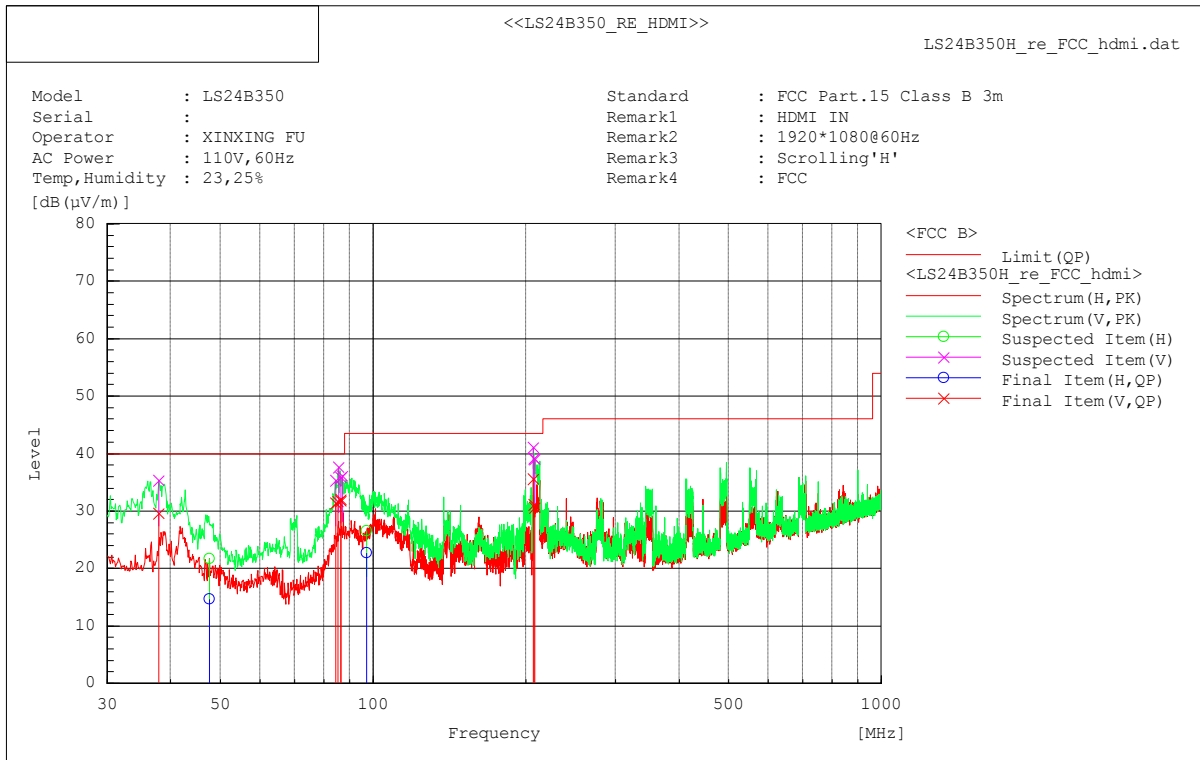
No.	Frequency [MHz]	(P)	S.C	Reading QP [dB (µV)]	c.f [dB (1/m)]	Result QP [dB (µV/m)]	Limit QP [dB (µV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	Remark
1	349.579	V	S	31.7	-7.0	24.7	46.0	21.3	152.0	184.9	
2	198.013	V	S	52.7	-13.3	39.4	43.5	4.1	101.0	0.1	
3	36.426	V		37.7	-9.2	28.5	40.0	11.5	101.0	250.3	
4	38.003	V		37.4	-10.2	27.2	40.0	12.8	101.0	250.3	
5	214.543	H		35.9	-13.1	22.8	43.5	20.7	101.0	294.5	
6	41.398	V		38.4	-12.2	26.2	40.0	13.8	101.0	51.7	
7	561.439	V		39.9	-1.3	38.6	46.0	7.4	200.0	209.4	
8	560.590	V		38.4	-1.3	37.1	46.0	8.9	200.0	209.4	
9	40.791	V		36.1	-11.9	24.2	40.0	15.8	100.0	44.3	
10	237.580	H		31.1	-11.2	19.9	46.0	26.1	100.0	287.1	

■ Operating Mode: HDMI IN Display

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800*600@60Hz, 1024*768@60Hz, 1920*1080@60Hz), then choose the worst one (1920*1080@60Hz) for final evaluation.



Final Result

No.	Frequency [MHz]	(P)	S.C	Reading QP [dB(µV)]	c.f [dB(1/m)]	Result QP [dB(µV/m)]	Limit QP [dB(µV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	Remark
1	85.260	V	S	47.8	-16.1	31.7	40.0	8.3	128.0	270.3	
2	206.628	V	S	48.8	-13.2	35.6	43.5	7.9	100.0	4.8	
3	86.337	V	S	47.9	-15.9	32.0	40.0	8.0	113.0	291.9	
4	86.381	V		47.6	-15.8	31.8	40.0	8.2	100.0	300.1	
5	207.631	V		44.4	-13.2	31.2	43.5	12.3	100.0	358.1	
6	207.995	V		43.8	-13.2	30.6	43.5	12.9	100.0	355.1	
7	84.562	V		47.6	-16.2	31.4	40.0	8.6	100.0	291.7	
8	37.881	V		39.7	-10.1	29.6	40.0	10.4	100.0	313.5	
9	47.581	H		29.7	-15.0	14.7	40.0	25.3	400.0	56.1	
10	97.172	H		35.9	-13.2	22.7	43.5	20.8	299.0	22.2	

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 3m, Antenna Height : 1 to 4 meters

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

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

1GHz-2GHz

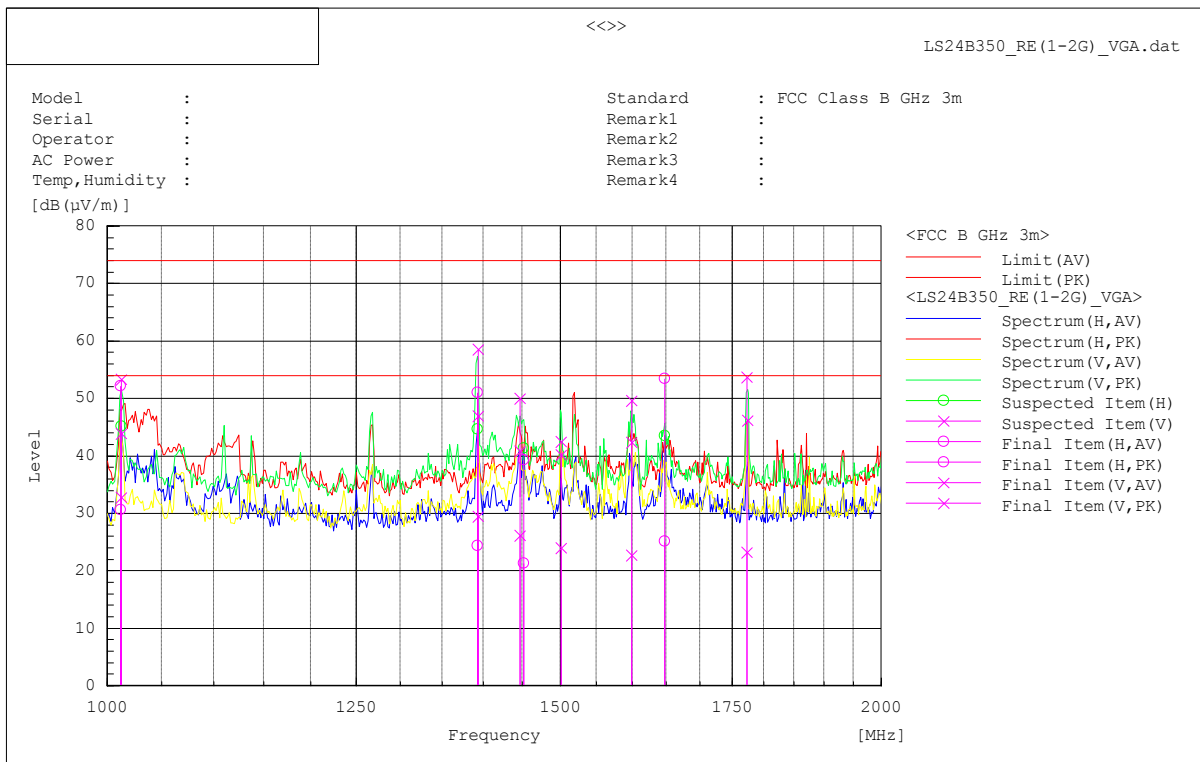
Test date	2011.11.09		Test engineer		Xinxing Fu	
Climate condition	Ambient temperature	24 °C	Relative humidity	20 %	Atmospheric pressure	101.5 kPa
	Test place					
3m Semi-Anechoic Chamber						

■ Operating Mode: D-Sub (PC Video IN or Analog) IN Display

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800*600@60Hz, 1024*768@60Hz, 1920*1080@60Hz), then choose the worst one (1920*1080@60Hz) for final evaluation.

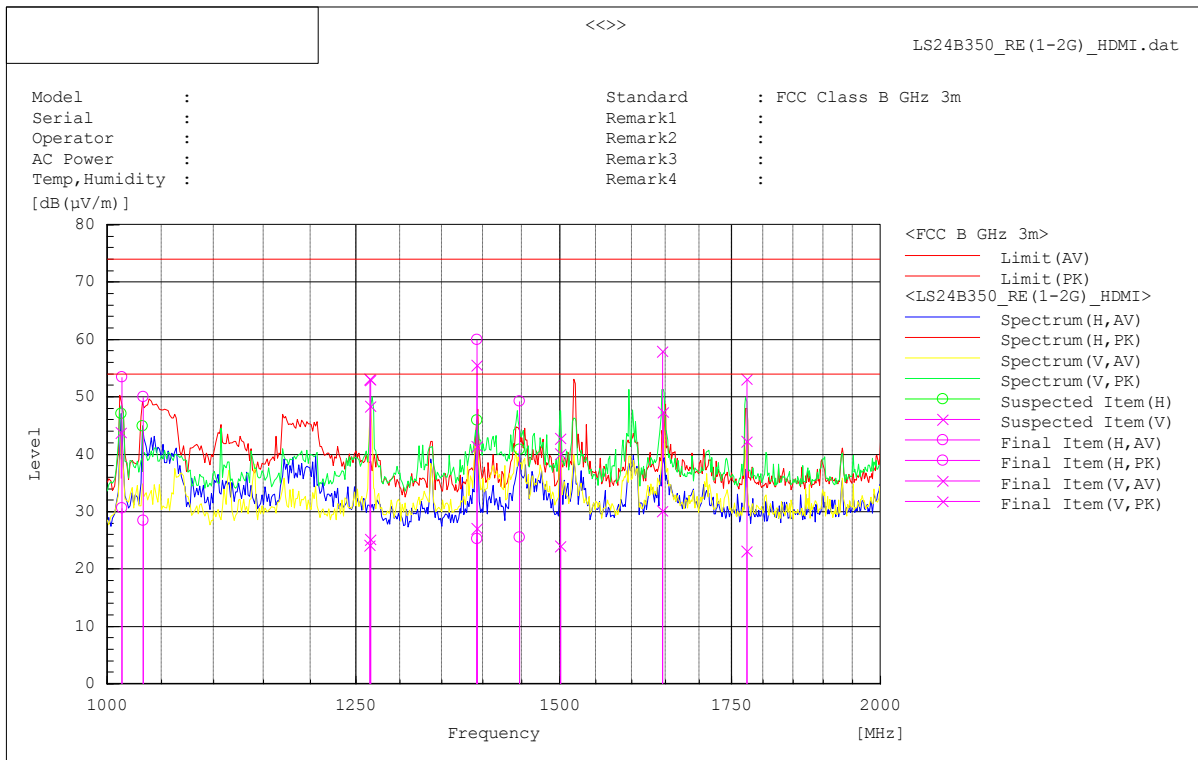


■ Operating Mode: HDMI IN Display

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800*600@60Hz, 1024*768@60Hz, 1920*1080@60Hz), then choose the worst one (1920*1080@60Hz) for final evaluation.



Final Result

No.	Frequency [MHz]	(P)	Reading AV [dB (µV)]	Reading PK [dB (µV)]	c.f [dB (1/m)]	Result AV [dB (µV/m)]	Result PK [dB (µV/m)]	Limit AV [dB (µV/m)]	Limit PK [dB (µV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [°]	Remark
1	1265.699	V	39.9	68.9	-15.8	24.1	53.1	54.0	74.0	29.9	20.9	188.0	350.2	
2	1645.660	V	44.2	72.0	-14.1	30.1	57.9	54.0	74.0	23.9	16.1	172.0	350.0	
3	1013.177	H	47.8	70.7	-17.2	30.6	53.5	54.0	74.0	23.4	20.5	109.0	214.8	
4	1393.080	H	40.9	75.6	-15.6	25.3	60.0	54.0	74.0	28.7	14.0	108.0	225.9	
5	1032.897	H	45.4	67.0	-17.0	28.4	50.0	54.0	74.0	25.6	24.0	118.0	190.6	
6	1501.603	V	38.9	55.1	-15.0	23.9	40.1	54.0	74.0	30.1	33.9	100.0	341.0	
7	1447.115	H	40.8	64.5	-15.3	25.5	49.2	54.0	74.0	28.5	24.8	100.0	224.8	
8	1266.026	V	40.9	69.8	-15.8	25.1	53.0	54.0	74.0	28.9	21.0	199.0	352.8	
9	1392.628	V	42.7	71.1	-15.6	27.1	55.5	54.0	74.0	26.9	18.5	199.0	1.1	
10	1774.039	V	36.7	66.7	-13.7	23.0	53.0	54.0	74.0	31.0	21.0	302.0	43.1	

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3m, Antenna Height : 1 to 4 meters

Result (Average) = Reading AV + C.F (Antenna Factor + Cable Loss - Amp. Gain)

Margin AV (Average) = Limit - Result AV

Appendix A – EUT photography

(Front)



(Rear)



(Power Adapter)



(Panel)



(Board 1)



(Board 2)



(Crystal)

