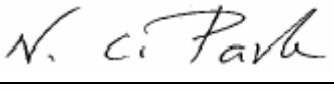
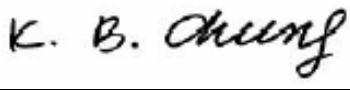


EMC Test Report

According to FCC Part 15 Subpart B

Project No.	LBE042314
Equipment under Test	
Address	416 Maetan3-Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea, 443-742
Product Name	LCD TV Monitor
Model Name	RE32UO
Manufacturer	SAMSUNG
Brand Name	SAMSUNG
Variant Model	See Page 3
Date of Test	December 14 ~ 16, 2004
Issued Date	December 17, 2004

	Name/Position	Signature
Tested by	Min Kyung Chul Test Engineer	
Reviewed by	No Cheon, Park Manager of EMC Lab.	
Authorized by	Kyu Baek, Chung Chief of EMC Lab.	

1. This test reports does not constitute an endorsement by NIST/NVLAP or U.S Government.
2. This test report is to certify that the tested device properly complies with the requirements of FCC Rules and Regulations Part 15 Subpart B Unintentional Radiators.

All tests necessary to show compliance to the requirements were and these results met the specifications requirement.

This laboratory is registered by the NIST/NVLAP, U.S.A.

The test reported herein have been performed in accordance
with its terms of registration.



NVLAP LAB CODE 200623-0

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1. General Information

1.1 Basic Information related Product

Applicant	Samsung Electronics Co. Ltd
Model name	RE32UO
Applicant Address	Samsung Electronics Co. Ltd; 416 Maetan3- Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea, 443-742
Contact Person	Min Kyung Chul
Kind of product	LCD TV Monitor
Valiant list	None
Manufacturer	Samsung Electronics Co.Ltd;
New / Alternative / Permissive change Information	This report is original report #

1.2 Detail Information related Product

Specification

Item(s)	Description
Resolution	1360 * 768
Horizontal Frequency	61 kHz
Vertical Frequency	75Hz

1.3 Operating Mode and Condition

The system was configured for testing in typical fashion use. Cable 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.

- PC Analog In

- TV Receiving

(This operating mode was covered by another report)

1.4 Equipment Modifications

No equipment modifications were required.

1.5 Test Configuration

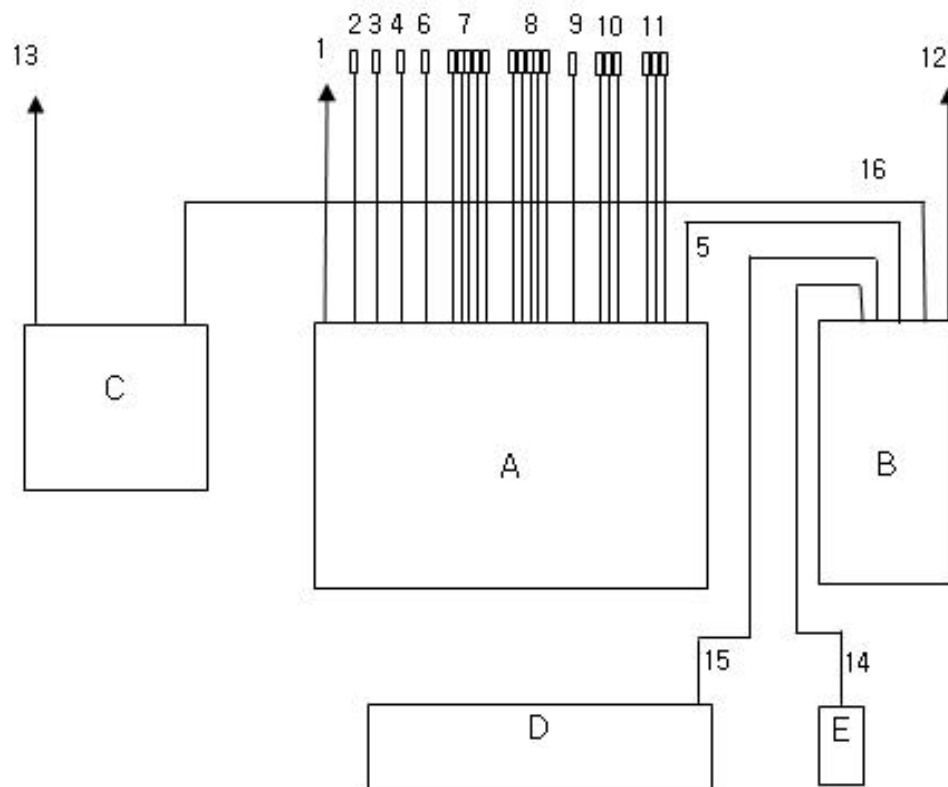
Used EUT and Peripherals

Seq	Device	Model Name	Serial #	Maker	Note
A	LCD TV Monitor	RE32UO	-	SAMSUNG	A3LRE32UO
B	Personal Computer	M6050	812092FRC02684	SAMSUNG	DOC
C	Printer	ML-1740	BABX820386E	SAMSUNG	A3LML-1710P
D	USB Keyboard	SDM4510UH	4MO24781	SAMSUNG	DOC
E	PS/2 Mouse	M-S48a	LZA00153252	SAMSUNG	JNZ201213

Used Cable Description

	Connect Cable	Length [m]	Shielded [Y/N]	Remark
1	Power	1.8	No	to the Mains
2	ANT In	1.5	Yes	Termination
3	HDMI	1.5	Yes	-
4	DVI Audio In	1.5	No	Termination
5	PC In	1.5	Yes	PC
6	PC Audio In	1.5	No	Termination
7	Component In 1	1.5	No	Termination
8	Component In 2	1.5	No	Termination
9	S-Video In	1.5	No	Termination
10	AV In	1.5	No	Termination
11	AV Out	1.5	No	Termination
12	Power(For PC)	1.8	No	To the Mains
13	Power(For Printer)	1.8	No	To the Mains
14	PS/2 Cable	1.2	No	To the PC
15	USB Cable	1.2	No	To the PC
16	Parallel Cable	1.5	Yes	To the PC

Block Diagram



1.6 Applied Standards

List

Product or Generic Standards	Basic Standards
FCC Part15 Subpart B	ANSI C63.4 : 2003

1.7 Test Facility

General Information

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22, 16-1, 16-2.

This EMC Testing Lab. is accredited by Korea Laboratory Accreditation Scheme(KOLAS) which signed the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the above test item(s) and test method(s).

This Lab. is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:1998.

Accreditation and Listing



Uncertainty

(According to NAMAS Pub.NIS81)

Test Item	Expanded Uncertainty
Radiated Disturbance	± 5.09
Disturbance voltage at the mains terminals	± 1.64

2. Summary of Test Results

Result : PASS

The equipment under test(EUT) has been found to comply with the applied standards.

Test Name		Applied Standard	Result
Electromagnetic Emission Test			
3.1	Conducted Emission	FCC Part15 Subpart B	Complied
3.2	Radiated Emission	FCC Part15 Subpart B	Complied

3. Description of Individual Tests

3.1 Conducted Emission

Test Information		
	Test Engineer	Min Kyung Chul
	Test Date	December 16, 2004
	Climate Condition	Ambient Temperature : 23 Relative Humidity : 37%
	Test Place	Shield Room #5

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
Spectrum Analyzer	E7405A	Agilent	MY42000052	2005-08-26	12
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2005-09-23	12
Field strength meter	ESS	R&S	844661/005	2005-01-05	12
L.I.S.N	ESH3-Z5	R&S	100261	2005-07-23	12
L.I.S.N	ESH3-Z5	R&S	100262	2005-02-11	12

EUT Test Setup

The EUT was set up as per normal use on a wooden table 0.4m from a vertical ground reference plane, at least 0.8m from other conduction surfaces and 0.8m from the LISN.
See photo..

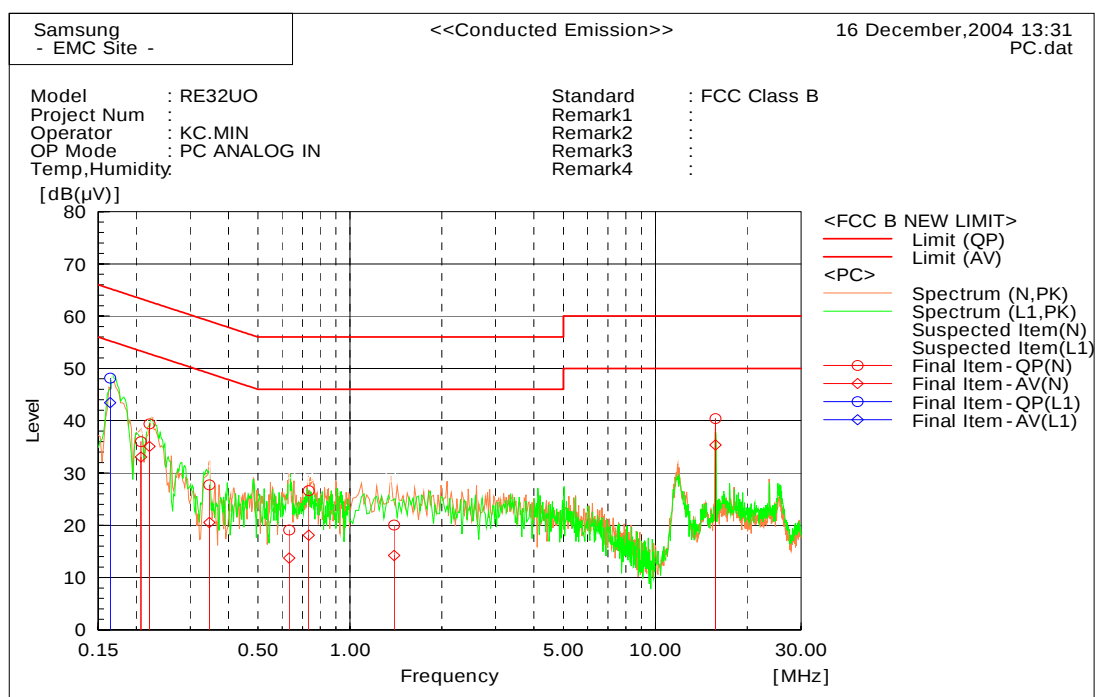
Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.
----------------------------	---

Test Data

■ Operating Mode : PC Analog In

[Graph and Data]



Final Result

--- N Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.20689	35.9	33.0	0.1	36.0	33.1	63.3	53.3	27.3	20.2
2	0.22095	39.3	35.0	0.1	39.4	35.1	62.8	52.8	23.4	17.7
3	0.34637	27.6	20.4	0.1	27.7	20.5	59.0	49.0	31.3	28.5
4	0.63331	19.0	13.6	0.1	19.1	13.7	56.0	46.0	36.9	32.3
5	0.7334	26.4	17.9	0.2	26.6	18.1	56.0	46.0	29.4	27.9
6	1.3949	19.9	14.1	0.1	20.0	14.2	56.0	46.0	36.0	31.8
7	15.7265	39.6	34.6	0.8	40.4	35.4	60.0	50.0	19.6	14.6

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.16407	48.0	43.4	0.1	48.1	43.5	65.3	55.3	17.2	11.9

3.2 Radiated Emission

Test Information		
	Test Engineer	Min Kyung Chul
	Test Date	December 14, 2004
	Climate Condition	Ambient Temperature : 23 Relative Humidity : 37%
	Test Place	10m Semi Anechoic chamber

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
Biconilog Antenna	6112B	SCHAFFNER	2767	2005-05-22	12
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2005-09-23	12
Biconilog Antenna	6112B	SCHAFFNER	2766	2005-07-06	12
Spectrum Analyzer	E7405A	Agilent	US41110272	2005-06-30	12
Field strength meter	ESCS30	R&S	839809/002	2005-04-28	12
AMPLIFIER	8447D	Agilent	2944A10430	2005-07-20	12

EUT Test Setup

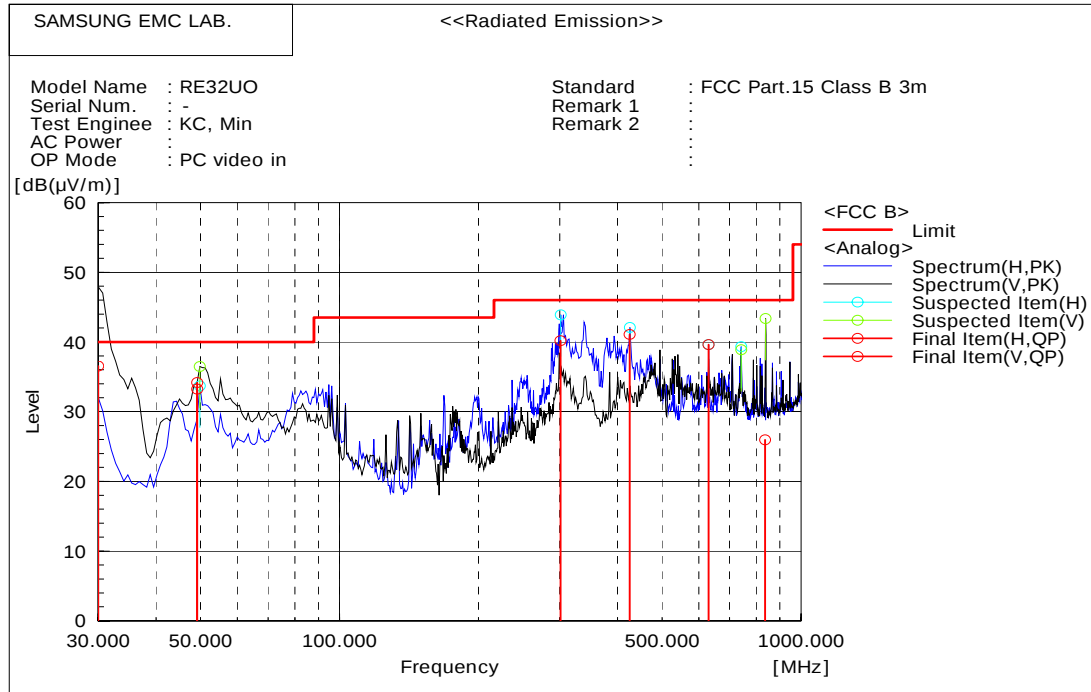
EUT set up in semi-anechoic chamber. EUT positioned at 3m from antenna in center of table.
All ports terminated into characteristic loads.

Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.
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Test Data (Other Frequency)

■ Operating Mode : PC Analog In

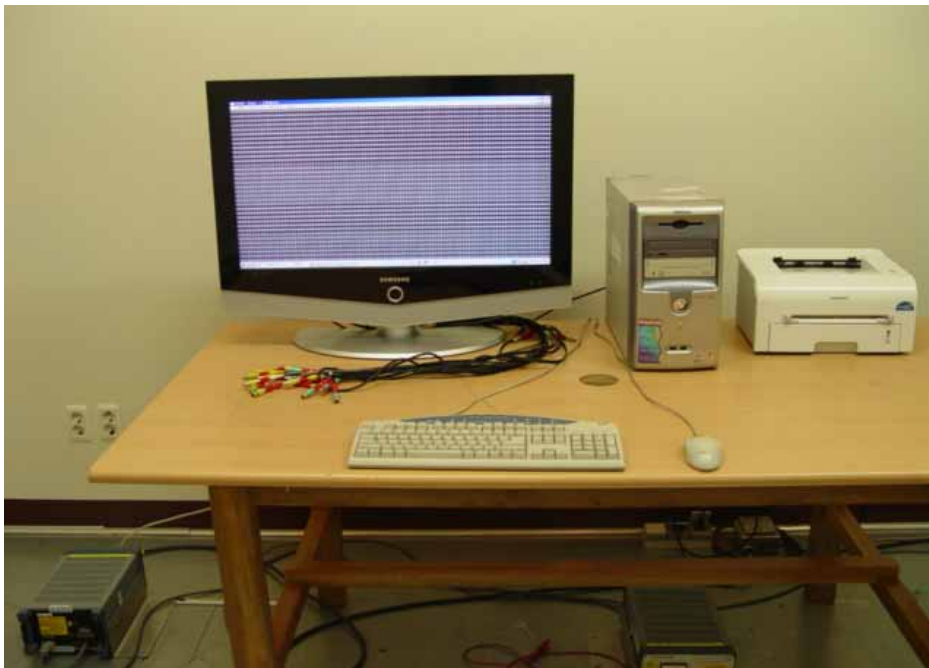


Final Result

No.	Frequency [MHz]	(P)	S.C	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]
1	49.150	V	S	50.6	-17.4	33.2	40.0	6.8	102.0	76.0
2	49.150	H	S	51.6	-17.4	34.2	40.0	5.8	398.0	155.0
3	629.980	H	S	40.3	-0.7	39.6	46.0	6.4	144.0	172.0
4	425.270	H	S	45.8	-4.7	41.1	46.0	4.9	133.0	174.0
5	835.570	V	S	24.1	1.9	26.0	46.0	20.0	180.0	175.0
6	301.200	H	S	48.0	-7.8	40.2	46.0	5.8	199.0	195.0
7	30.000	V	S	44.5	-8.0	36.5	40.0	3.5	290.0	265.0

4. Appendix A

4.1 Test Photography



Picture 1. Conducted Emission (Front)



Picture 2. Conducted Emission (Rear)



Picture 3. Radiated Emission (Front)



Picture 4. Radiated Emission (Rear)

4.2 EUT Photography



Picture 5. EUT (Front)



Picture 6. EUT (Rear)