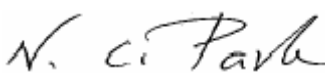
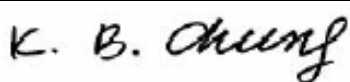


EMC Test Report

According to FCC Part 15 Subpart B

Project No.	LBE042359
Equipment under Test	
Address	416 Maetan3-Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea, 443-742
Product Name	PDP TV Monitor
Model Name	SH42P5
Manufacturer	SAMSUNG
Brand Name	SAMSUNG
Variant Model	See Page 3
FCC ID	A3LSH42P5
Date of Test	December 21 ~ 23, 2004
Issued Date	December 24, 2004

	Name/Position	Signature
Tested by	Kyung Chul, Min 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	SH42P5
Applicant Address	Samsung Electronics Co. Ltd; 416 Maetan3- Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea, 443-742
Contact Person	Kyung Chul, Min
Kind of product	PDP 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
Display Size	H : 933.89 mm , V : 532.22 mm
Preferred Resolution	1024x768@60Hz
Max Resolution	1280x1024@60Hz
Frequency Range	H : 30kHz ~ 70kHz, V : 56 Hz ~ 75 Hz
Max Pixel Clock	108 MHz

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. 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

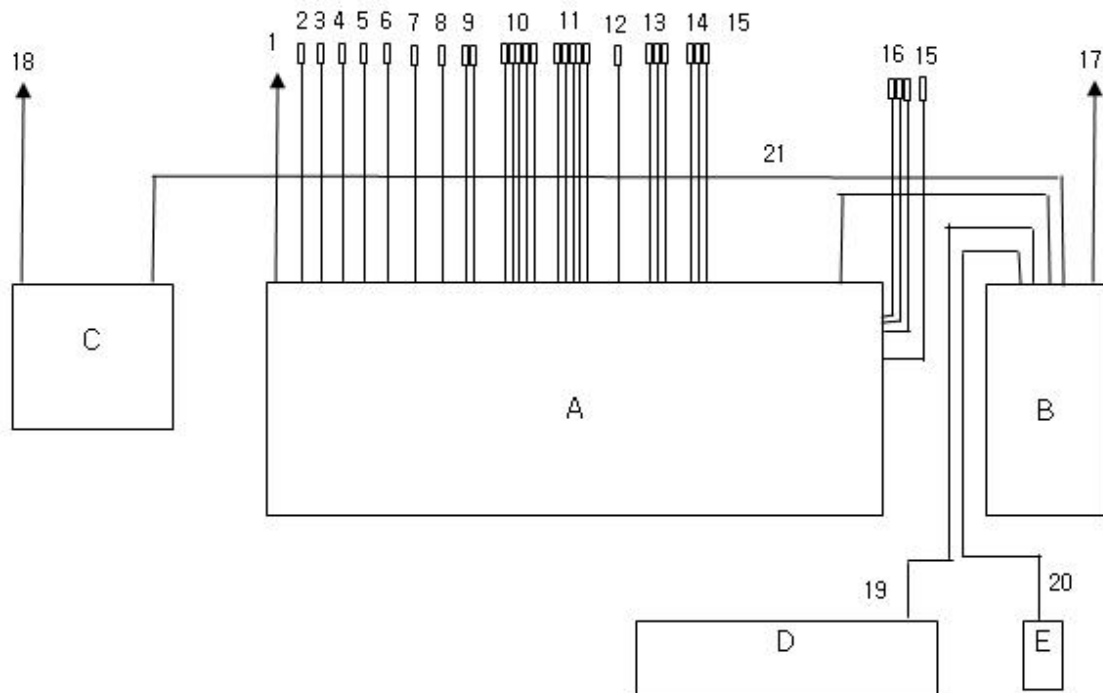
Used EUT and Peripherals

Seq	Device	Model Name	Serial #	Maker	Note
A	PDP TV Monitor	SH42P5	-	SAMSUNG	A3LSH42P5
B	Personal Computer	MP11	A24692GT300039	SAMSUNG	DOC
C	Printer	ML-1740	BABX820386E	SAMSUNG	A3LML-1710P
D	PS/2 Keyboard	5900	K14102993	SAMSUNG	DOC
E	PS/2 Mouse	M-S435	4862A011	HP	DOC

Used Cable Description

	Connect Cable	Length [m]	Shielded [Y/N]	Remark
1	Power	1.8	No	to the Mains
2	ANT 1 In	1.5	Yes	Termination
3	ANT Out	1.5	Yes	Termination
4	ANT 2 In	1.5	Yes	Termination
5	HDMI 1	1.5	Yes	-
6	HDMI 2	1.5	Yes	-
7	Digital Audio	1.5	No	Termination
8	PC In	1.5	Yes	PC
9	PC Audio In	1.5	No	Termination
10	Component In 1	1.5	No	Termination
11	Component In 2	1.5	No	Termination
12	S-Video 1 In	1.5	No	Termination
13	AV 1 In	1.5	No	Termination
14	AV Out	1.5	No	Termination
15	S-Video 2 In	1.5	No	Termination
16	AV 2 In	1.5	No	Termination
17	Power(For PC)	1.8	No	To the Mains
18	Power(For Printer)	1.8	No	To the Mains
19	PS/2 Cable	1.2	No	To the PC
20	PS/2 Cable	1.2	No	To the PC
21	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	Kyung Chul, Min
	Test Date	December 22, 2004
	Climate Condition	Ambient Temperature : 23°C 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..

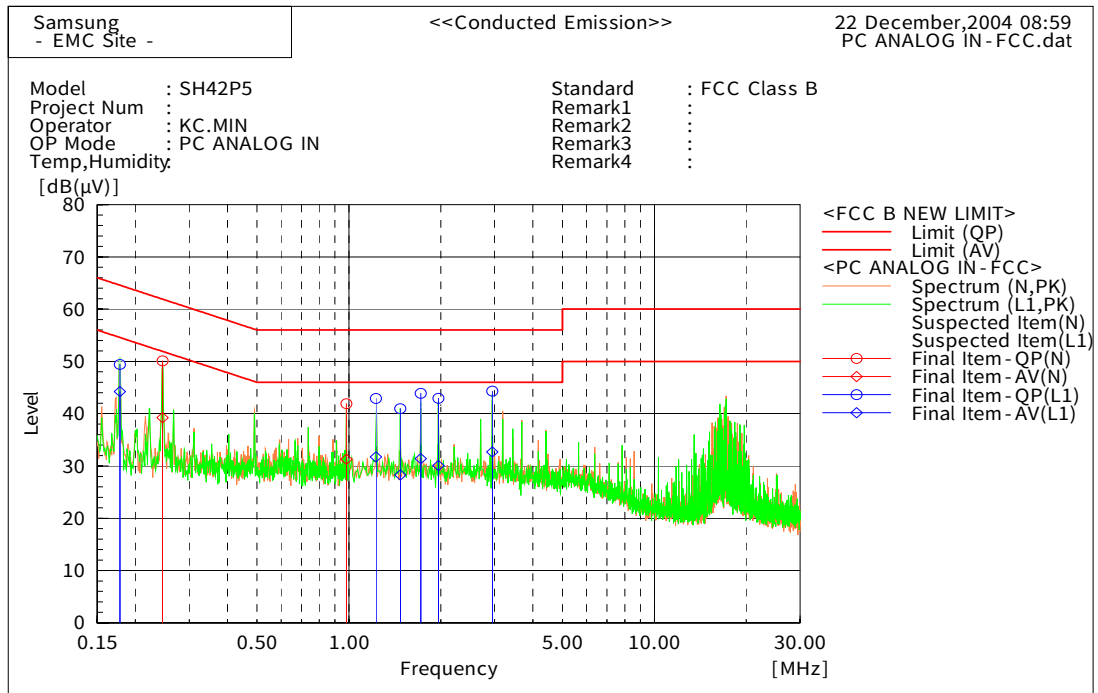
Test Result

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 [dB(μV)]	Reading AV [dB(μV)]	c.f	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.24559	50.0	39.1	0.1	50.1	39.2	61.9	51.9	11.8	12.7
2	0.98149	41.7	31.1	0.2	41.9	31.3	56.0	46.0	14.1	14.7

--- L1 Phase ---

No.	Frequency	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.17777	49.3	44.1	0.1	49.4	44.2	64.6	54.6	15.2	10.4
2	1.2262	42.7	31.6	0.2	42.9	31.8	56.0	46.0	13.1	14.3
3	1.4723	40.8	28.1	0.2	41.0	28.3	56.0	46.0	15.0	17.7
4	1.7183	43.7	31.2	0.2	43.9	31.4	56.0	46.0	12.1	14.6
5	1.9635	42.9	30.0	0.1	43.0	30.1	56.0	46.0	13.1	15.9
6	2.9457	44.2	32.6	0.1	44.3	32.7	56.0	46.0	11.7	13.3

3.2 Radiated Emission

Test Information		
	Test Engineer	Kyung Chul, Min
	Test Date	December 21, 2004
	Climate Condition	Ambient Temperature : 23°C 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

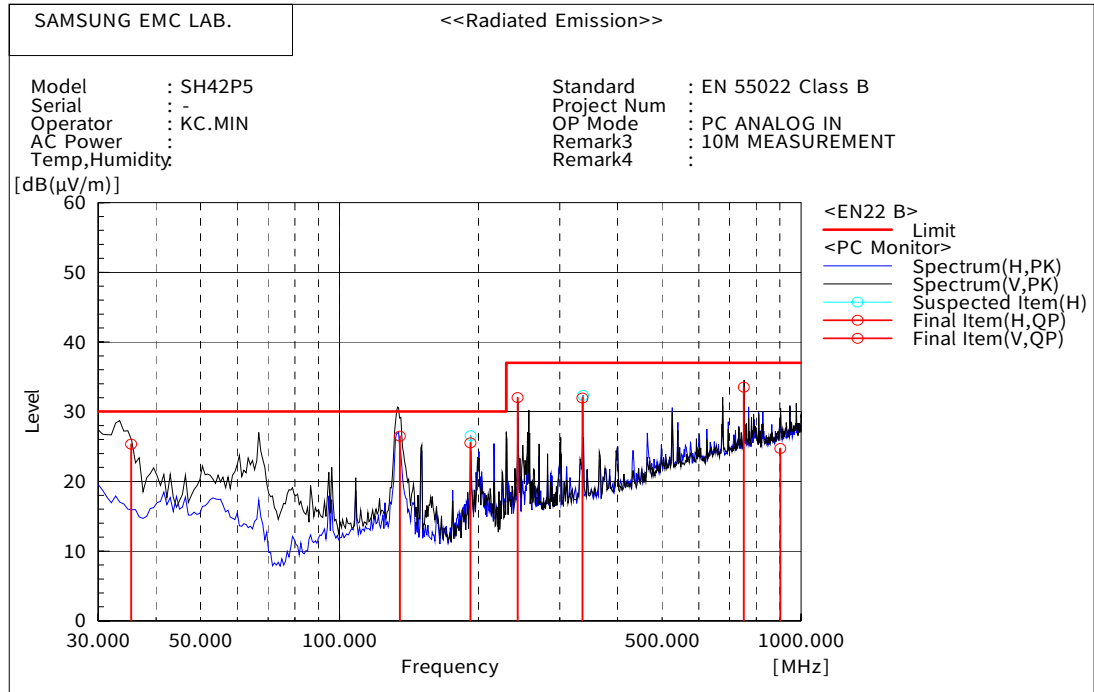
EUT set up in semi-anechoic chamber. EUT positioned at 3m from antenna in center of table.
All ports terminated into characteristic loads.

Test Result

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

Test Data (Other Frequency)

■ Operating Mode : PC Analog In

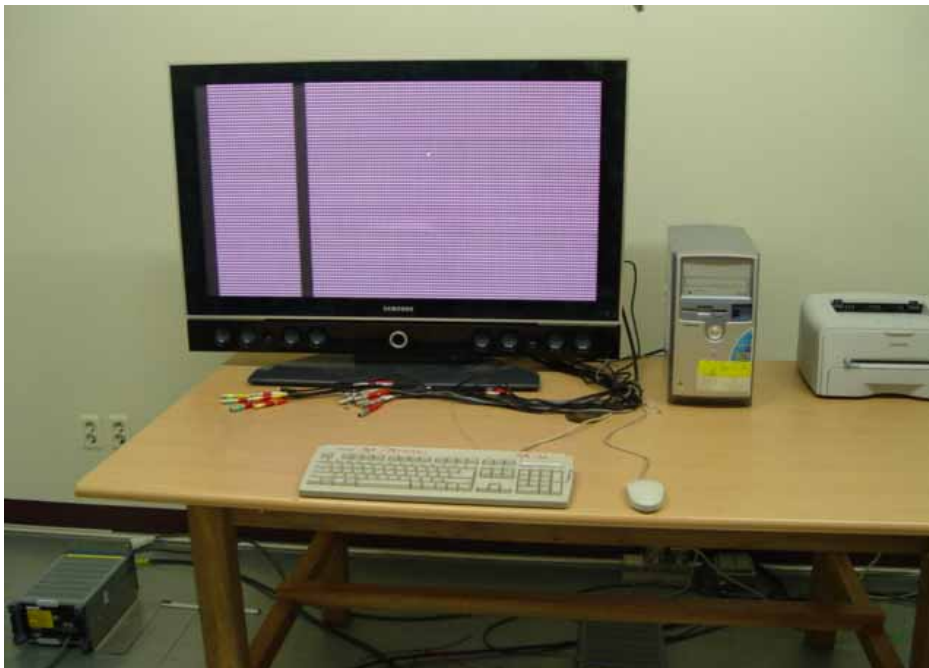


Final Result

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	35.339	V	S	37.0	-11.7	25.3	30.0	4.7	352.0	193.0
2	135.017	V	S	41.3	-14.8	26.5	30.0	3.5	116.0	162.0
3	192.027	H	S	41.4	-15.9	25.5	30.0	4.5	346.0	153.0
4	243.185	V	S	44.9	-12.9	32.0	37.0	5.0	104.0	315.0
5	336.050	H	S	41.5	-9.5	32.0	37.0	5.0	247.0	194.0
6	751.680	V	S	35.8	-2.3	33.5	37.0	3.5	235.0	188.0
7	902.180	H	S	25.2	-0.5	24.7	37.0	12.3	103.0	291.0

4. Appendix A

4.1 Test Photography



Picture 1. Conducted Emission (Front)



Picture 2. Conducted Emission (Side)



Picture 3. Radiated Emission (Front)



Picture 4. Radiated Emission (Rear)

4.2 EUT Photography



Picture 5. EUT (Front)



Picture 6. EUT (Rear)