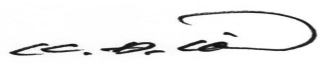
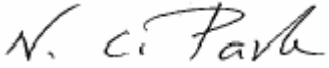
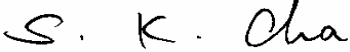


EMI Test Report

According to FCC Part 15 Subpart B

Project No.	LBE050971
Equipment under Test	
Applicant	Samsung Electronics Co. Ltd 416 Maetan-3 Dong, Yeungtong-Gu, Suwon-Si, Gyeonggi-Do, Korea, 443-742
FCC ID	A3LNP-P40
Product Name	Notebook PC
Model Name	NP-P40, T2300
Manufacturer	ASUS
Date of Test	April 12, 2005 ~ May 13, 2005
Issued Date	May 16, 2005

	Name/Position	Signature
Tested by	Kyeong Dong, Kim Test Engineer	
Reviewed by	No Cheon, Park Manager of EMC Lab.	
Authorized by	Seung Kyu, Cha 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

3. FCC filing Registration Number : 873282

Table of Contents

1. General Information

- 1.1 Basic Information related Product
- 1.2 Detail Information related Product
- 1.3 Operating mode and condition
- 1.4 Test System Details
- 1.5 Equipment Modifications
- 1.6 Test Procedure
- 1.7 Test Configuration
- 1.8 Applied Standard
- 1.9 Test Facility

2. Summary of Test Results

3. Description of individual tests

- 3.1 Conducted Emission
- 3.2 Radiated Emission

4. Appendix

- 4.1 Test Photography
- 4.2 EUT Photography

1. General Information

1.1 Basic Information related Product

Applicant	Samsung Electronics Co. Ltd
Model name	NP-P40
Applicant Address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, Korea, 443-742
Contact Person	Kyeong Dong, Kim
Kind of product	Notebook PC
Variant list	NP-P40 E/I, T2300
Manufacturer	ASUS
New / Alternative / Permissive change Information	3 configurations - Platy platform, AUO LCD 15" TFT XGA (B150XG01) - Platy platform, AUO LCD 14.1" TFT XGA (B141XG10) - Platy platform, AUO LCD 15" TFT SXGA+ (B150PG03)

1.2 Detail Information related Product

Specification

- Configuration 1 : **Platy platform, AUO LCD 15" TFT XGA (B150XG01)**

Item	Specification	Remark
CPU	Intel Pentium-M DOTHAN 1.73 GHz Cache 2MB, FSB 533MHz	-
Chipset	Intel Alviso 915PM, 400MHz/533MHz FSB	-
Main Memory	SAMSUNG, PC2-4200, M470T3354BG0-CD5, 256Mbyte	-
Graphic controller	ATI Mobility Radeon X300, 64 external memory	-
LCD DISPLAY	AUO LCD 15" TFT XGA (B150XG01), 1024x768	-
HDD	Fujitsu /MHT2040AH / 40G / 4200	-
MODEM	Ambit, T60M283.00, S/W Modem, 56KBPS, Fax/Data MDC	-
LAN	BROADCOM, BCM5788MKFB	-
Wireless LAN	Intel, WM3B2200bg, 802.11b/g, 54MBPS, Mini PCI	FCC ID:PD9WM3B2 200BG
Bluetooth	Samsung, SWB-3000D, USB type	No USA spec
ADAPTER	Acbel, API3AD05, AD-9019N, 90W, 3pin	-

Internal ODD	TSST DVD-ROM	-
Ports	VGA / SIO /PIO/6pin 1394/4 port USB 2.0 / MIC / Line-out / IRDA /PCMCIA/3in1 slot/S-VHS / RJ11 / RJ45	-

- Configuration 2 : **Platy platform, AUO LCD 14.1" TFT XGA (B141XG10)**

Item	Specification	Remark
CPU	Intel Pentium-M DOTHAN 1.73 GHz Cache 2MB, FSB 533MHz	-
Chipset	Intel Alviso 915PM, 400MHz/533MHz FSB	-
Main Memory	SAMSUNG, PC2-4200, M470T3354BG0-CD5, 256Mbyte	-
Graphic controller	ATI Mobility Radeon X300, 64 external memory	-
LCD DISPLAY	AUO LCD 14.1" TFT XGA (B141XG10), 1024x768	-
HDD	Fujitsu /MHT2040AH / 40G / 4200	-
MODEM	Ambit, T60M283.00, S/W Modem, 56KBPS, Fax/Data MDC	-
LAN	BROADCOM, BCM5788MKFB	-
Wireless LAN	Intel, WM3B2200bg, 802.11b/g, 54MBPS, Mini PCI	FCC ID:PD9WM3B2 200BG
Bluetooth	Samsung, SWB-3000D, USB type	No USA spec
ADAPTER	Acbel, API1AD02, AD-6019, 60W, 2pin	-
Internal ODD	TSST DVD-ROM	-
Ports	VGA / SIO /PIO/6pin 1394/4 port USB 2.0 / MIC / Line-out / IRDA /PCMCIA/3in1 slot/S-VHS / RJ11 / RJ45	-

- Configuration 3 : **Platy platform, AUO LCD 15" TFT SXGA+ (B150PG03)**

Item	Specification	Remark
CPU	Intel Pentium-M DOTHAN 780, 2.26 GHz Cache 2MB, FSB 533MHz	-
Chipset	Intel Alviso 915PM, 400MHz/533MHz FSB	-
Main Memory	SAMSUNG, PC2-4200, M470T3354BG0-CD5, 256Mbyte	-
Graphic controller	ATI Mobility Radeon X300, 64 external memory	-
LCD DISPLAY	AUO LCD 15" TFT SXGA+ (B150PG03), 1400x1050	-
Inverter	SEM, SIC350S	
HDD	Fujitsu, MHV2100AT, 100GB, 50G/P, 4200RPM	-
MODEM	Ambit, T60M283.00, S/W Modem, 56KBPS, Fax/Data MDC	-
LAN	BROADCOM, BCM5788MKFB	-
Wireless LAN	Intel, WM3B2915abg, 802.11 a/b/g, 54MBPS, Mini PCI	FCC

		ID:PD9WM3B2 915ABG
Bluetooth	Samsung, SWB-3000D, USB type	No USA spec
ADAPTER	Acbel, API3AD05, AD-9019N, 90W, 3pin	-
Internal ODD	TSST, TS-L632B, Super-Multi	-
Ports	VGA / SIO /PIO/6pin 1394/4 port USB 2.0 / MIC / Line-out / IRDA /PCMCIA/3in1 slot/S-VHS / RJ11 / RJ45	-

Operating Frequency

1.73MHz(CPU Speed), 533MHz(Host Clock), 400MHz/533MHz(DDR2),
33MHz(PCI Clock), 133MHz (PCIE Clock),14.318MHz(Ref), 12.2MHz(Audio Clock),
54MHz(LCD Clock)

1.3 Operating Mode and Condition

The EUT exercise program used during radiated and conducted emissions testing was the Samsung Standardized Emission Test Program for Windows. During the certification test, the LCD panel was open and video signals were simultaneously active on the LCD panel, and the VGA port.

The system was configured for testing in a typical fashion that a customer would normally use, and was tested while in an automated non-attendant mode.

The program repetitively sends a screen of 'H' to the display, reads and writes to the hard drive, and writes to all serial , parallel ports and modem.

Music is played from the CD player to the Line-In jack and ported out to the earphones.

A hard drive from the remote PC was mapped to the EUT and a data file was read and written over the network connection to provide continuous activity. The EUT was connected to a remote PC through the Ethernet port with Unshielded Twisted Pair Ethernet cable and Modem port by using hyper terminal program. Ethernet testing was performed at 100 Mbps operation. Cable were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables.

1.4 Test System Details

This section provide details of the equipment under test(EUT)and the peripheral assemblies attached during radiated and conducted emission testing.

14.1" XGA, 15" XGA and 15" SXGA+ resolution LCD was set to its maximum or possible value of 1024x768 pixels.

and externally attached VGA monitor was set same resolution of 1024x768 in simultaneous display mode

1.5 Equipment Modifications

No equipment modifications were required.

1.6 Test Procedure

1.6.1 Conducted Emission

The EUT was placed on a platform nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting ground plane.

The rear of EUT, including peripherals was aligned and flush with rear of tabletop.

All other surfaces of tabletop was at least 80cm from any other grounded conducting surface.

I/O cables and AC cables that were connected to the peripherals were bundled in center.

They were folded back and forth forming a bindle 30cm to 40cm long and were handed at a 40cm height to the ground plane.

Each EUT current-carrying power lead, except the ground(safety)lead, were individually connected through a LISN to the input power source.

All unused 50 ohm connectors of the LISN were resistively terminated in 50 ohm when not connected to the measuring equipment.

Frequency Band [MHz]	Instrument	Detector	Resolution Bandwidth	Video Bandwidth
0.15 to 80	EMI Receiver	Quasi-Peak	9kHz	-
		Average	9kHz	-

1.6.2 Radiated Emission

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane.

The rear of EUT, including peripherals was aligned and flush with rear of tabletop.

I/O cables that were connected to the peripherals were bundle in center.

They were folded back and forth forming a bundle 30cm to 40cm long and were hanged 40cm height to the ground plane.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane and the run table azimuth was varied to obtain the maximum signal strength

The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found.

The spectrum was scanned from 30 to 1000 MHz using Biconi-Log antenna.

Also, the EMI RECEIVER was scanned from 1000 to 1800MHz using linearly polarization Double ridge horn antennas were used. The explanation of measuring instrument setup when Respective function is used in any frequency band is as following;

Frequency Band [MHz]	Instrument	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	EMI Receiver	Quasi-Peak	120kHz	-
Above 1000	EMI Receiver	Peak	1MHz	1MHz

1.7 Test Configuration

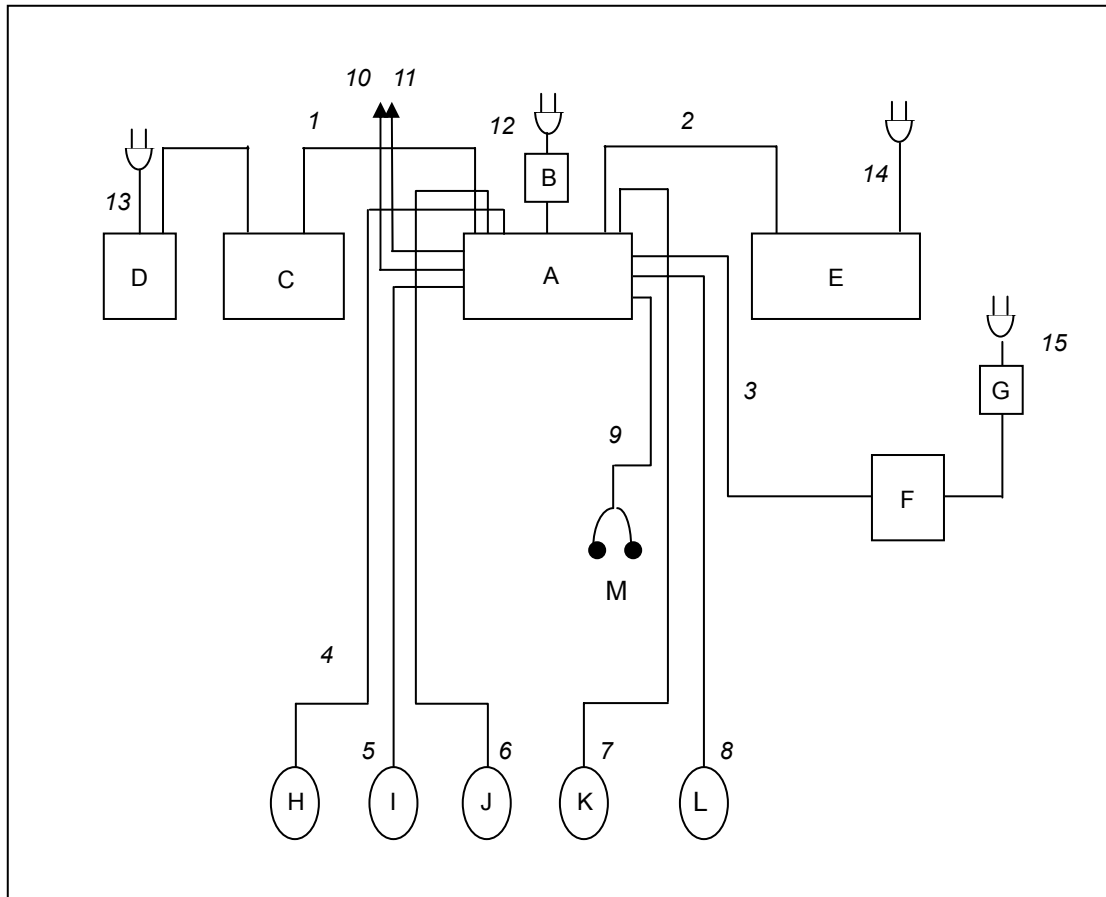
Used EUT and Peripherals

Seq	Device	Model Name	Serial #	Maker	FCC ID/DoC
A	Note PC	NP-P40	-	ASUS	EUT
B	AC Adapter	API3AD05 (AD-9019N)	CNBA4400190ABJ6 F4AQ0208	Acbel	-
C	LCD Monitor	1702FP	KR-08G152-47602- 25K-DTFU	Samsung	DoC
D	AC Adapter	AP04214-UV	0307050248AA	Anam Instrument	-
E	Printer	C6427A	MY143180FX	HP	DoC
F	External HDD	SEV08UP/DOM	HV08J1AT600366	Samsung	DoC
G	AC Adapter	PSCV360104A	C020381945B	Dongguan Samsung Electro- Mechanics	-
H	Serial Mouse	37964	1022949	Microsoft	C3KMS1
I	USB Mouse	M-UV69a	HCA40801453	Logitech	DoC
J	USB Mouse	M-UV69a	HCA40801487	Logitech	DoC
K	USB Mouse	M-UV69a	HCA40801462	Logitech	DoC
L	USB Mouse	Crossbow USB	2249604M05C	Sun	DoC
M	Headset	Plantronics	-	Microsoft	-

Used Cable Description

No	Connect Cable	Length [m]	Shielded [Y/N]	Remark
1	Monitor Cable	1.8	Yes	-
2	Parallel (Printer) Cable	1.8	Yes	-
3	1394 Cable	1.8	Yes	-
4	Serial Cable	1.8	No	-
5	USB Cable	1.8	Yes	-
6	USB Cable	1.8	Yes	-
7	USB Cable	1.8	Yes	-
8	USB Cable	1.8	Yes	-
9	Headset Cable	2.0	No	-
10	Tel (RJ11) Cable	3.5	No	-
11	LAN (RJ45) Cable	3.5	No	-
12	AC Power Cable	1.8	No	For Notebook PC
13	AC Power Cable	1.8	No	For LCD Monitor
14	AC Power Cable	1.8	No	For Printer
15	AC Power Cable	1.5	No	For External HDD

Block Diagram



1.8 Applied Standards

List

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

1.9 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)

Samsung IT EMC Test Lab.

Conducted Emission : $\pm 1.9\text{dB}$

Radiated Emission Bi-Log Antenna : $\pm 5.1\text{dB}$

2. Summary of Test Results

Result : PASS

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

Section of the Product Standard		Applied Standard	Result
Electromagnetic Emission Test			
3.1	Conducted Emission	FCC Part15 Sub Part B	Complied
3.2	Radiated Emission	FCC Part15 Sub Part B	Complied

3. Description of Individual Tests

3.1 Conducted Emission

Test Information	
Test Engineer	Kyeong Dong, Kim
Test Date	May 13, 2005
Climate Condition	Ambient Temperature : 25.5 °C Relative Humidity : 32%
	Atmospheric Pressure : 1010mbar
Test Place	Shielded Room #2

Test Equipments

Equipment	Model Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
EMI TEST RECEIVER	ESCS30	R&S	830986/004	2006-02-17	12
LISN	ESH3-Z5	R&S	100263	2005-05-25	12
LISN	ESH3-Z5	R&S	831887/004	2005-08-31	12

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

Test Data & Graph

The Initial step in collecting conducted data was to perform a peak and average scan over the measurement range using a receiver

The find data represents worst-case emissions.

* QP : Quasi-peak, AV: Average

* Measurement detector function and bandwidth

- Detector function : CISPR quasi-peak, Average

- Bandwidth : 9kHz

* Result = Meter Reading(QP or AV) + Total Loss(LISN Insertion loss + Cable loss)

* Margin = Limit – Result

1. TEST DATA & GRAPH

1.1 Configuration 1

- Quasi Peak Table

MEASUREMENT RESULT: "NP-P40-04_fin QP"

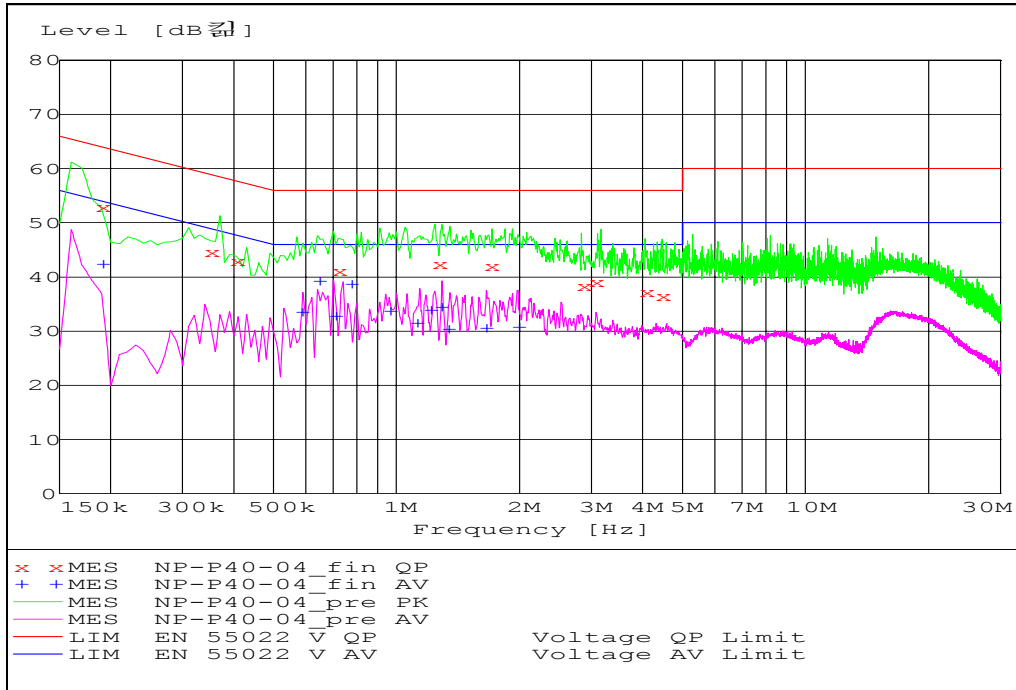
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.190000	52.90	0.6	64	11.1	N	GND
0.350000	44.60	0.5	59	14.4	L1	GND
0.405000	42.90	0.5	58	14.9	N	GND
0.720000	41.20	0.5	56	14.8	N	GND
1.265000	42.30	0.6	56	13.7	L1	GND
1.695000	42.10	0.6	56	13.9	N	GND
2.860000	38.40	0.6	56	17.6	N	GND
3.060000	39.00	0.6	56	17.0	N	GND
4.060000	37.30	0.8	56	18.7	L1	GND
4.455000	36.50	0.8	56	19.5	L1	GND

- Average Table

MEASUREMENT RESULT: "NP-P40-04_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.190000	42.30	0.6	54	11.7	N	GND
0.585000	33.60	0.6	46	12.4	N	GND
0.645000	39.20	0.5	46	6.8	L1	GND
0.705000	32.80	0.5	46	13.2	N	GND
0.770000	38.60	0.5	46	7.4	L1	GND
0.960000	33.70	0.6	46	12.3	L1	GND
1.115000	31.60	0.6	46	14.4	L1	GND
1.205000	33.90	0.6	46	12.1	L1	GND
1.280000	34.50	0.6	46	11.5	N	GND
1.330000	30.30	0.6	46	15.7	N	GND
1.650000	30.50	0.6	46	15.5	L1	GND
1.980000	30.70	0.5	46	15.3	L1	GND

- Graph



1.2 Configuration 2

- Quasi Peak Table

MEASUREMENT RESULT: "NP-P40-05_fin QP"

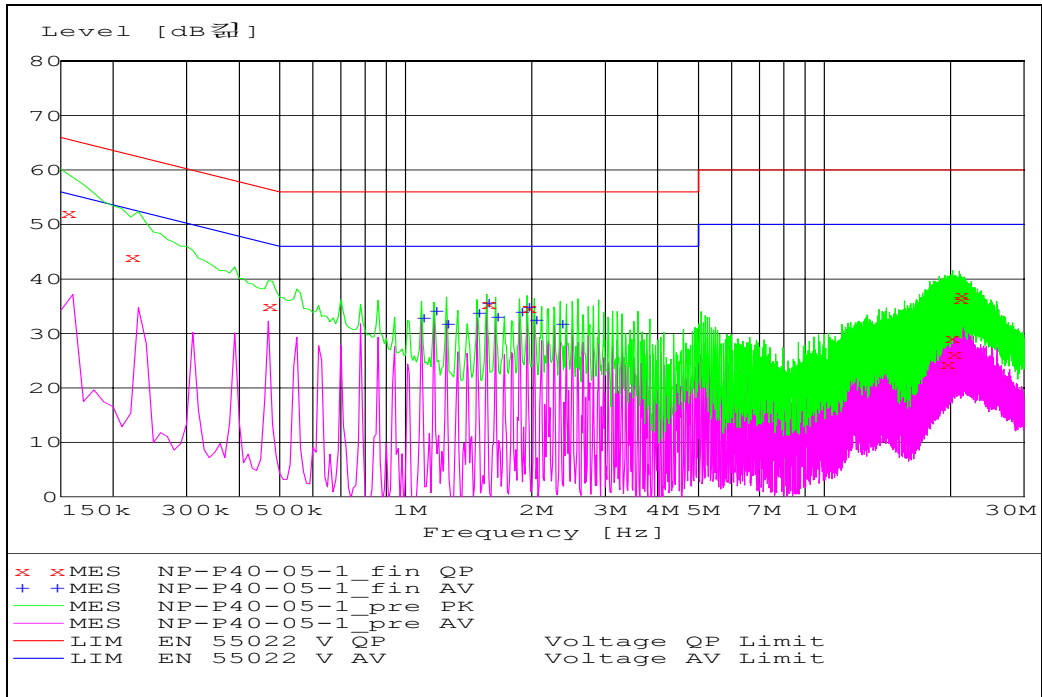
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.155000	52.2	0.6	65.7	13.5	L1	GND
0.220000	44.1	0.5	62.8	18.7	L1	GND
0.470000	35.0	0.6	56.5	21.5	L1	GND
1.565000	35.4	0.6	56.0	20.6	N	GND
1.955000	34.7	0.6	56.0	21.3	N	GND
19.545000	24.5	1.8	60.0	35.5	L1	GND
20.020000	29.2	1.8	60.0	30.8	L1	GND
20.250000	26.3	1.8	60.0	33.7	L1	GND
21.045000	36.4	1.8	60.0	23.6	L1	GND
21.125000	37.0	1.8	60.0	23.0	L1	GND

- Average Table

MEASUREMENT RESULT: "NP-P40-05_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
1.095000	32.8	0.6	46.0	13.2	N	GND
1.175000	34.2	0.6	46.0	11.8	N	GND
1.250000	31.8	0.6	46.0	14.2	L1	GND
1.485000	33.7	0.6	46.0	12.3	N	GND
1.565000	35.7	0.6	46.0	10.3	N	GND
1.645000	33.0	0.6	46.0	13.0	L1	GND
1.880000	34.0	0.6	46.0	12.0	N	GND
1.955000	34.8	0.6	46.0	11.2	N	GND
2.035000	32.4	0.5	46.0	13.6	L1	GND
2.350000	31.7	0.5	46.0	14.3	N	GND

- Graph



1.3 Configuration 3

- Quasi Peak Table

MEASUREMENT RESULT: "P40-06_fin QP"

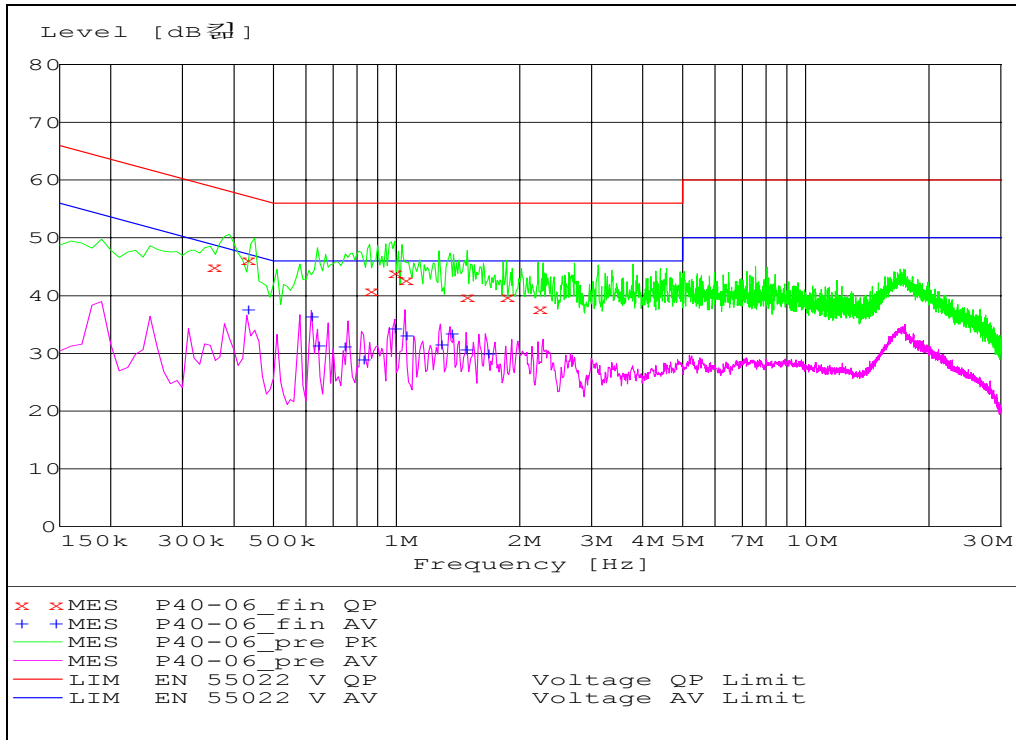
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.355000	44.9	0.5	58.8	13.9	N	GND
0.430000	46.3	0.5	57.3	11.0	N	GND
0.860000	40.9	0.5	56.0	15.1	L1	GND
0.985000	43.9	0.6	56.0	12.1	L1	GND
1.045000	42.7	0.6	56.0	13.3	L1	GND
1.475000	39.9	0.6	56.0	16.1	L1	GND
1.850000	39.9	0.6	56.0	16.1	N	GND
2.225000	37.7	0.5	56.0	18.3	N	GND

- Average Table

MEASUREMENT RESULT: "P40-06_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.430000	37.5	0.5	47.3	9.8	N	GND
0.615000	36.3	0.6	46.0	9.7	L1	GND
0.640000	31.4	0.5	46.0	14.6	N	GND
0.740000	31.1	0.5	46.0	14.9	L1	GND
0.825000	29.0	0.5	46.0	17.0	N	GND
0.985000	34.2	0.6	46.0	11.8	L1	GND
1.050000	33.0	0.6	46.0	13.0	N	GND
1.275000	31.6	0.6	46.0	14.4	N	GND
1.355000	33.4	0.6	46.0	12.6	L1	GND
1.470000	30.6	0.6	46.0	15.4	L1	GND
1.665000	29.9	0.6	46.0	16.1	L1	GND

- Graph



3.2 Radiated Emission

Test Information	
Test Engineer	Kyeong Dong, Kim
Test Date	May 12, 2005
Climate Condition	Ambient Temperature : 23.0℃ Relative Humidity : 48%
	Atmospheric Pressure : 1012mbar
Test Place	10m Semi Anechoic Chamber

Test Equipments

Equipment	Model Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
Test Receiver	ESIB-26	R&S	100147	2005-10-04	12
Turn Table	DT430	HD	430/691/01	N/A	N/A
Antenna Mast	MA240	HD	240/678 BJ:01	N/A	N/A
Controller	HD100	HD	100/723	N/A	N/A
Preamplifier	CPA9232	Schaffner	1053	2005-08-14	12
BILOG Antenna	CBL6112B	Schaffner	2804	2005-11-09	12

Measurement Results	Passed The measured emissions of the EUT have found to be below the specified limits.
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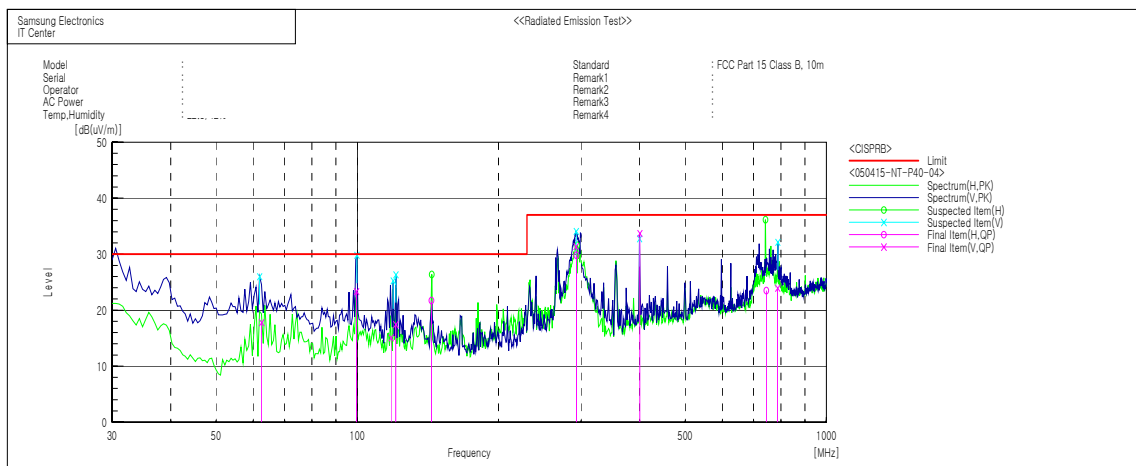
Test Data & Graph

The initial step in collecting radiated data was to perform a peak scan over the measurement range using a receiver. All modes of operation were investigated and the worst-case emissions are reported. The minimum margin to the limit is as follows:
All other emission are non-significant.

1. Test Data (30MHz ~ 1GHz)

- Configuration 1

Samsung Electronics Co., Ltd
IT Center



Final Result

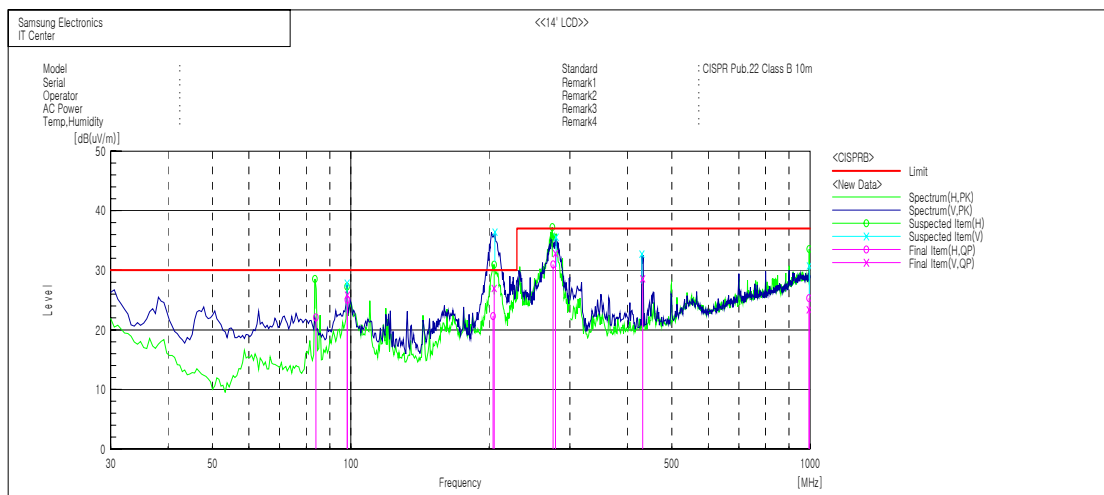
No.	Frequency [MHz]	(P)	S.C	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	62.554	V	S	32.3	-14.5	17.8	30.0	12.2	259.0	189.0	
2	99.618	V	S	32.8	-9.5	23.3	30.0	6.7	119.0	171.0	
3	118.069	V	S	22.7	-7.6	15.1	30.0	14.9	111.0	66.0	
4	120.764	V	S	24.9	-7.5	17.4	30.0	12.6	107.0	197.0	
5	143.863	H	S	30.2	-8.5	21.7	30.0	8.3	390.0	152.0	
6	292.888	V	S	36.8	-5.4	31.4	37.0	5.6	260.0	6.0	
7	293.364	H	S	35.2	-5.4	29.8	37.0	7.2	323.0	324.0	
8	400.329	V	S	35.8	-2.1	33.7	37.0	3.3	131.0	347.0	
9	744.837	H	S	18.9	4.6	23.5	37.0	13.5	280.0	177.0	
10	787.524	V	S	19.1	4.8	23.9	37.0	13.1	223.0	356.0	

Measurement detector function and bandwidth

- Detector function : CISPR quasi-peak
- Bandwidth : 120kHz
- * Receiving Antenna Mode : Horizontal, Vertical
- * Test distance : 10m (Semi-Anechoic Chamber)
- * Result = Meter Reading + Total Loss(Antenna factor + Cable loss - Amp. Gain)
- * Margin = Limit – Result

- Configuration 2

Samsung Electronics Co., Ltd
IT Center



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 [deg]	Remark
1	83.949	H	S	34.0	-11.9	22.1	30.0	7.9	176.0	111.0	
2	98.304	V	S	35.5	-9.7	25.8	30.0	4.2	116.0	341.0	
3	98.298	H	S	34.8	-9.7	25.1	30.0	4.9	316.0	193.0	
4	204.058	H	S	32.4	-10.1	22.3	30.0	7.7	316.0	318.0	
5	205.205	V	S	37.1	-10.1	27.0	30.0	3.0	111.0	356.0	
6	275.795	H	S	36.7	-5.7	31.0	37.0	6.0	296.0	48.0	
7	279.025	V	S	38.5	-5.7	32.8	37.0	4.2	100.0	206.0	
8	431.969	V	S	29.8	-1.2	28.6	37.0	8.4	368.0	230.0	
9	995.420	H	S	17.7	7.6	25.3	37.0	11.7	227.0	11.0	
10	995.378	V	S	15.8	7.6	23.4	37.0	13.6	163.0	308.0	

Measurement detector function and bandwidth

- Detector function : CISPR quasi-peak

- Bandwidth : 120kHz

* Receiving Antenna Mode : Horizontal, Vertical

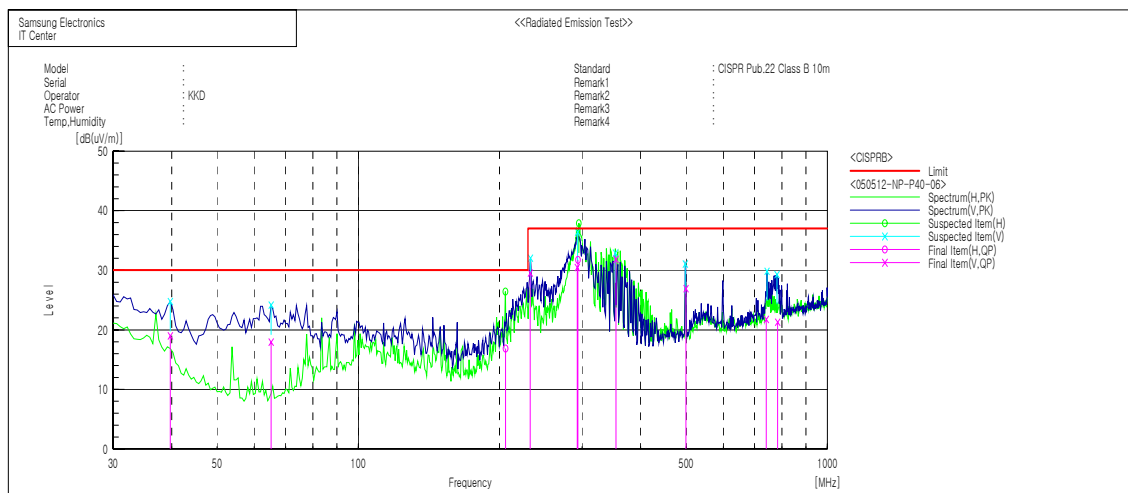
* Test distance : 10m (Semi-Anechoic Chamber)

* Result = Meter Reading + Total Loss(Antenna factor + Cable loss - Amp. Gain)

* Margin = Limit – Result

- Configuration 3

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Final Result

No.	Frequency [MHz]	(P)	S.C	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	39.731	V	S	25.8	-6.8	19.0	30.0	11.0	100.0	64.0	
2	65.168	V	S	32.4	-14.4	18.0	30.0	12.0	231.0	292.0	
3	206.038	H	S	26.8	-10.0	16.8	30.0	13.2	299.0	293.0	
4	232.698	V	S	38.2	-8.6	29.6	37.0	7.4	119.0	194.0	
5	293.099	V	S	35.9	-5.4	30.5	37.0	6.5	123.0	187.0	
6	294.024	H	S	37.1	-5.4	31.7	37.0	5.3	227.0	185.0	
7	354.324	V	S	35.5	-3.7	31.8	37.0	5.2	103.0	161.0	
8	499.528	V	S	26.9	0.0	26.9	37.0	10.1	281.0	39.0	
9	741.175	V	S	17.1	4.6	21.7	37.0	15.3	224.0	39.0	
10	783.302	V	S	16.5	4.8	21.3	37.0	15.7	204.0	26.0	

Measurement detector function and bandwidth

- Detector function : CISPR quasi-peak
- Bandwidth : 120kHz

- * Receiving Antenna Mode : Horizontal, Vertical
- * Test distance : 10m (Semi-Anechoic Chamber)
- * Result = Meter Reading + Total Loss(Antenna factor + Cable loss - Amp. Gain)
- * Margin = Limit – Result

2. Test Data (1GHz~18GHz)

- 3 configuration were tested and the configuration 3 was found as worst case emission and reported.

Freq. [MHz]	Reading [dBuV/m]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Azimuth [°]	Pol. [H/V]
1400	14.7	-13.4	28.1	74.0	45.9	100.0	210.0	H
2494	27.7	-6.6	34.3	74.0	39.7	100.0	210.0	H
4998	30.6	-1.1	31.7	74.0	42.3	100.0	210.0	V
10093	52.1	15.1	37.0	74.0	37.0	100.0	180.0	H
17891	77.8	29.3	48.5	74.0	25.5	100.0	180.0	H

* Measurement detector function and bandwidth

- Detector function : peak

- Bandwidth : 1MHz

* Receiving Antenna Mode : Horizontal, Vertical

* Test distance : 3m (Semi-Anechoic Chamber)

* Result = Meter Reading + Total Loss(Antenna factor + Cable loss-Amp. Gain)

* Margin = Limit – Result

4. Appendix

4.1 Test Photography



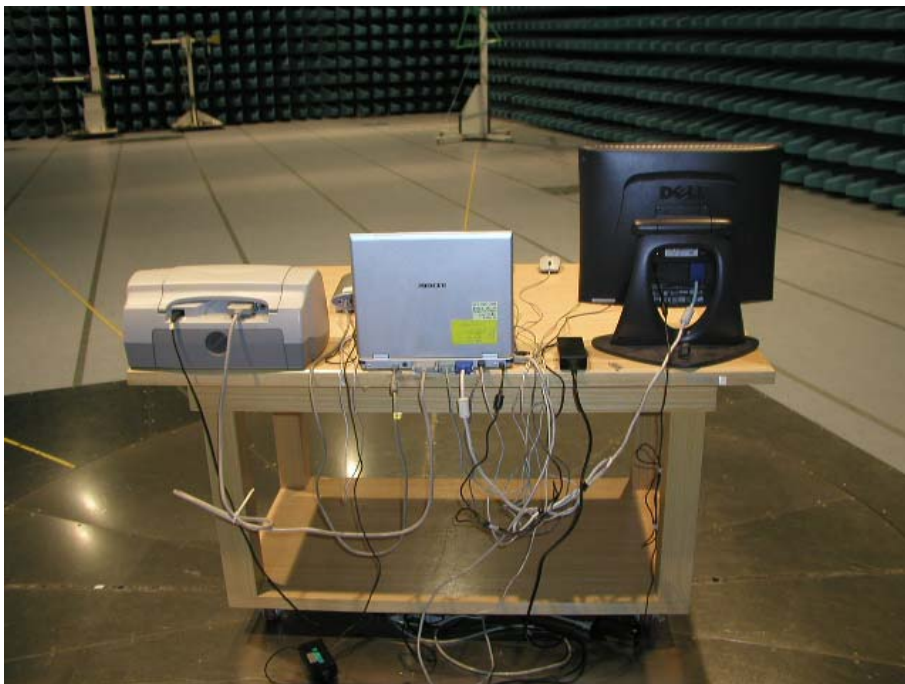
Picture 1. Conducted Emission (Front)



Picture 2. Conducted Emission (Rear)



Picture 3. Radiated Emission (Front)



Picture 4. Radiated Emission (Rear)

4.2 EUT Photography



Picture 5. EUT front view of configuration 1



Picture 6. EUT rear view of configuration 1



Picture 7. EUT front view of configuration 2



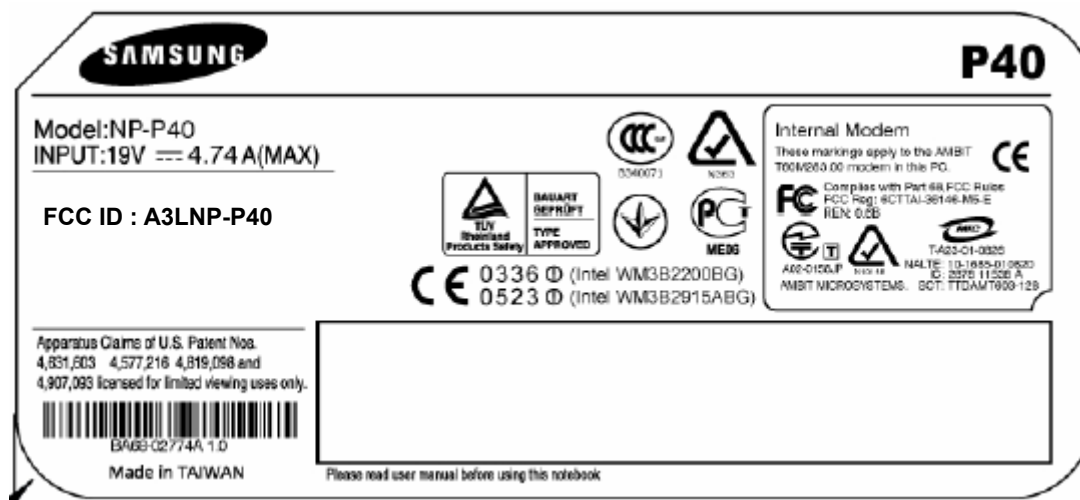
Picture 8. EUT rear view of configuration 2



Picture 9. EUT front view of configuration 3



Picture10. EUT rear view of configuration 3



Picture 11. Label



Picture 12. Label Location