

EMI TEST REPORT
for
FSP Group Inc.

Switching Power Supply

Model : (1)ATX-250GT (2)ATX-200GT

Prepared for : FSP Group Inc.
No. 22, Jianguo E. Rd.,
Taoyuan City, Taiwan, R.O.C.

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TABLE OF CONTENTS

Description	Page
Test Report Verification	3
1. GENERAL INFORMATION	4
1.1. Description of Device (EUT).....	4
1.2. Tested Supporting System Details	5
1.3. Test Facility	8
1.4. Measurement Uncertainty	8
2. POWERLINE CONDUCTED TEST	9
2.1. Test Equipment.....	9
2.2. Block Diagram of Test Setup.....	9
2.3. Powerline Conducted Emission Limit (EN55022, Class B).....	9
2.4. EUT's Configuration during Compliance Measurement	10
2.5. Operating Condition of EUT	10
2.6. Test Procedure	11
2.7. Test Results.....	11
3. RADIATED EMISSION TEST	14
3.1. Test Equipment.....	14
3.2. Block Diagram of Test Setup.....	14
3.3. Radiation Limit (EN 55022, Class B).....	15
3.4. EUT's Configuration during Compliance Measurement	15
3.5. Operating Condition of EUT	15
3.6. Test Procedure	16
3.7. Test Results.....	16
3.8. Radiated Emission Measurement Results.....	17
4. PHOTOGRAPHS.....	19
4.1. Photos of Powerline Conducted Measurement	19
4.2. Photos of Radiated Measurement at Open Field Test Site	20
APPENDIX I (The Models Difference List)	22
APPENDIX II (Photos of EUT).....	23

TEST REPORT VERIFICATION

Applicant : FSP Group Inc.
 Manufacturer #1 : Shenzhen Huili Elec. Co., Ltd.
 Manufacturer #2 : Wellex Technology Co., Ltd.
 Manufacturer #3 : Fortron/Source (China) Corp.
 EUT Description : Switching Power Supply
 (A) MODEL NO. : (1)ATX-250GT (2)ATX-200GT
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : AC 115/230V~, 60/50Hz
 (Test Voltage : AC 230V/50Hz Via PC)


Measurement Procedure Used :

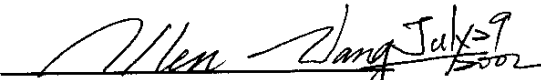
EN 55022/1998 +A1/2000 (CISPR 22/1997 +A1/2000), Rules And Regulations of Class B

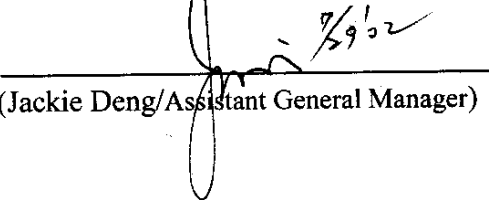
The device described above was tested by Taiwan Tokin EMC Eng. Corp. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the EN 55022 (CISPR 22) limits for both radiated and conducted emissions. The measurement results were contained in this test report and Taiwan Tokin EMC Eng. Corp. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN 55022 (CISPR 22) official limits.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Taiwan Tokin EMC Eng. corp.

Date of Test : Jul. 23, 2002

Prepared by : 
 (Nita Lee/Assistant Officer)

Test Engineer : 
 (Allen Wang/Deputy Manager)

Approve & Authorized Signer : 
 (Jackie Deng/Assistant General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Switching Power Supply
Model Number	:	(1)ATX-250GT (2)ATX-200GT Above two models have the same PCB layout and circuit, the differences are in input/output current and watt. The details of information attached to Appendix I. The model ATX-250GT is representative selected reported in this test report.
Applicant	:	FSP Group Inc. No. 22, Jianguo E. Rd., Taoyuan City, Taiwan, R.O.C.
Manufacturer #1	:	Shenzhen Huili Elec., Co., Ltd. Blk. C, Bldg. 7, County 73, Baoan, Shenzhen, Guangdong, China.
Manufacturer #2	:	Wellex Technology Co., Ltd. Zhenlian Building, County 74, Baoan, Shenzhen, Guangdong, China.
Manufacturer #3	:	Fortron/Source (China) Corp. (1) Unit 25, Zone 37, Baoan County, Shenzhen, China. (2) The 2 nd Industrial Park Mabu Xi Xiang, Baoan District, Shenzhen, Guangdong, China.
M/N ATX-250GT (Test Model)		
AC Input	:	AC 115/230V~, 10/5A, 60/50Hz
Max. Output Power	:	250W
DC Output	:	+3.3V/14.0A, +5V/25.0A, +12V/8.0A, +5Vsb/2.0A, -5V/0.3A, -12V/0.8A
Fuse Rating	:	6.3A, 250V~ (+3.3V& +5V=135W Max.)

M/N ATX-200GT	
AC Input	: AC 115/230V~, 8/4A, 60/50Hz
Max. Output Power	: 200W
DC Output	: +3.3V/14.0A, +5V/21.0A, +12V/10.0A, +5Vsb/2.0A, -5V/0.3A, -12V/0.5A
Fuse Rating	: 5A, 250V~ (+3.3V& +5V=105W Max.)
Date of Receipt of Sample	: Jul. 23, 2002
Date of Test	: Jul. 23, 2002

**Remark : This EUT is modify version of original test report TTEMC-E20163.
The differences are in :**

- (1) Change the type of T1 transformer.**
- (2) Re-layout little circuit of PCB.**

Re-testing the emission parts for above modification and the model ATX-250GT is representative reported in this test report.

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Number	: HP VECTRA XE320
Serial Number	: SG21101940
FCC ID	: By DoC
BSMI ID	: 3912A318
Brand	: HP
Manufacturer	: First International Computer, Inc.
VGA Card	: Dataexpert, M/N CP765V2 S/N E700492317, FCC ID LUT-CP765
S.P.S. (EUT)	: FSP, M/N ATX-250GT
Power Cord	: Non-Shielded, Detachable, 1.8m

1.2.2. 15" LCD MONITOR

Model Number	: D5063M
Serial Number	: CN206A6018
FCC ID	: By DoC
BSMI ID	: R33037
Manufacturer	: Top Victory Electronics (Fujian) Co., Ltd.
Data Cable	: Shielded, Detachable, 1.8m Bonded two ferrite cores
Audio Cable(*2EA)	: Non-Shielded, Detachable, 1.2m
AC Adapter	: Delta, M/N ADP-40TB BSMI ID 3892D142 Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	: Non-Shielded, Detachable, 1.8m

1.2.3. DOT MATRIX PRINTER

Model Number : KX-P2135
 Serial Number : 8DMCN02139
 FCC ID : ACJ5Z6KX-P2135
 BSMI ID : 3872A371
 Manufacturer : Matsushita (Brand: Panasonic)
 Data Cable : Shielded, Detachable, 1.5m
 Power Cord : Non-Shielded, Detachable, 1.8m

1.2.4. KEYBOARD

Model Number : SK-2502C
 Serial Number : M020236402
 FCC ID : By DoC
 BSMI ID : 3872F107
 Manufacturer : Silitek (Brand: HP)
 Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.5. MODEM #1

Model Number : DM-1414
 Serial Number : 980034385
 FCC ID : IFAXDM1414
 Manufacturer : Aceex
 Data Cable : Shielded, Detachable, 1.2m
 Power Adapter : Amigo, Model AM-91000A
 Non-Shielded, Undetachable, 1.8m

1.2.6. MODEM #2

Model Number : DM-1414
 Serial Number : 980034383
 FCC ID : IFAXDM1414
 Manufacturer : Aceex
 Data Cable : Shielded, Detachable, 1.2m
 Power Adapter : Amigo, Model AM-91000A
 Non-Shielded, Undetachable, 1.8m

1.2.7. PS2 MOUSE

Model Number : M-S48a
 Serial Number : LZE20501538
 FCC ID : JNZ201213
 BSMI ID : 4882A001
 Manufacturer : Logitech (Brand: HP)
 Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.8. USB MOUSE #1

Model Number : CREUBB
 Serial Number : N/A
 FCC ID : NHM-CREUBE
 Manufacturer : CRE Technology Co., Ltd.
 Data Cable : Shielded, Undetachable, 1.8m

1.2.9. USB MOUSE #2

Model Number : CREUBB
 Serial Number : N/A
 FCC ID : NHM-CREUBE
 Manufacturer : CRE Technology Co., Ltd.
 Data Cable : Shielded, Undetachable, 1.8m

1.2.10. MICROPHONE (To 15" LCD Monitor)

Model Number : DM-510
 Serial Number : N/A
 Manufacturer : Koka
 Data Cable : Non-Shielded, Undetachable, 2.8m

1.2.11. EARPHONE #1

Model Number : N/A
 Serial Number : N/A
 Manufacturer : Panasonic
 Earphone Cable : Non-Shielded, Undetachable, 1.1m

1.2.12. EARPHONE #2 (To 15" LCD Monitor)

Model Number : N/A
 Serial Number : N/A
 Manufacturer : Panasonic
 Earphone Cable : Non-Shielded, Undetachable, 1.1m

1.2.13. WALKMAN

Model Number : RQ-P35LT-K
 Serial Number : HA08473
 Manufacturer : Panasonic
 Data Cable : Non-Shielded, Detachable, 1.8m

1.2.14. 10/100 FAST ETHERNET SWITCH

Model Number : DES-1005D
 Serial Number : 0212G1A06039
 FCC ID : By DoC
 Manufacturer : D-Link
 LAN Cable : Non-Shielded, Detachable, 2.0m
 AC-DC Adapter : DVE, M/N DV-0751AS
 Cord: Non-Shielded, Undetachable, 1.8m

1.3. Test Facility

Site Description (C4/R5)	:	Taiwan Tokin EMC Eng. Corp. LINKOU LAB.
Test Site	:	No. 4 Shielded Room & No. 5 Open Site
Name of Firm	:	Taiwan Tokin EMC Eng. Corp. 9th Fl., No. 38, Fushing N. Rd., Taipei, Taiwan, R.O.C.
Site Location #1	:	No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
Site Location #2	:	No. 67-4, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
NVLAP Lab Code	:	200077-0
DAR-Registration No.	:	DAT-P-092/99-00e

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150KHz~30MHz	±2.66dB
Radiation Test (Distance: 10m)	30MHz~300MHz	+4.5dB / -4.5dB
	300MHz~1000MHz	+3.88dB / -3.84dB

Remark : Uncertainty = $K\mu c(y)$

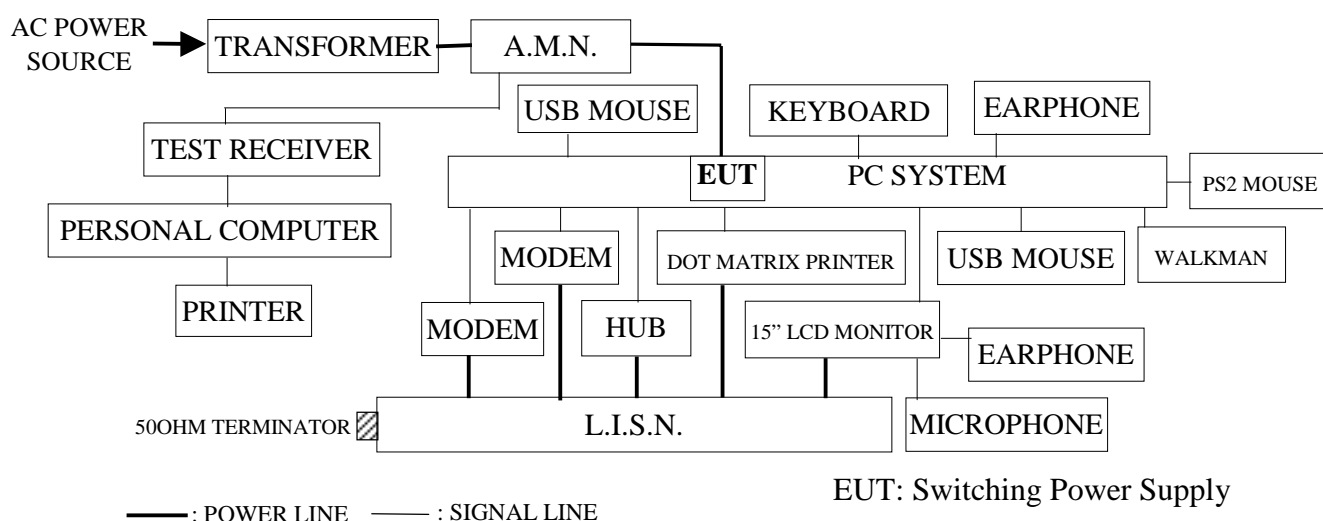
2. POWERLINE CONDUCTED TEST

2.1. Test Equipment

The following test equipment were used during the power line conducted tests :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Personal Computer	DFI	IPV3120400	N/A	N/A	N/A
2.	Test Receiver	Rohde & Schwarz	ESHS10	844591/015	Feb. 27, 02'	1 Year
3.	A.M.N.	Rohde & Schwarz	ENV4200	825358/003	Nov.12, 01'	1 Year
4.	L.I.S.N.	Kyoritsu	KNW-407	8-1430-6	Nov.12, 01'	1 Year
5.	Printer	HP	C6450A	TH96Q150GJ	N/A	N/A

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (EN55022, Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150KHz ~ 500KHz	66 ~ 56 dB	56 ~ 46 dB
500KHz ~ 5MHz	56 dB	46 dB
5MHz ~ 30MHz	60 dB	50 dB

2.4. EUT's Configuration during Compliance Measurement

The following equipment were installed on RF LINE VOLTAGE measurement to meet EN 55022 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1. Switching Power Supply (EUT)

Model Number	:	ATX-250GT
Manufacturer #1	:	Shenzhen Huili Elec., Co., Ltd.
Manufacturer #2	:	Wellex Technology Co., Ltd.
Manufacturer #3	:	Fortron/Source (China) Corp.
AC Input	:	AC 115/230V~, 10/5A, 60/50Hz
Max. Output Power	:	250W
DC Output	:	+3.3V/14.0A, +5V/25.0A, +12V/8.0A, +5Vsb/2.0A, -5V/0.3A, -12V/0.8A
Fuse Rating	:	6.3A, 250V~ (+3.3V& +5V=135W Max.)
2.4.2. Supporting System	:	As in Section 1.2

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown on 2.2.
- 2.5.2. Turned on the power of all equipments.
- 2.5.3. Personal Computer (EUT inside) read data from disk.
- 2.5.4. Personal Computer running the self-test program "Hwin" by windows and sent "H" character to monitor, then the screen of monitor displayed and filled with "H" pattern.
- 2.5.5. Personal Computer read data from floppy disk and then wrote data into floppy disk.
- 2.5.6. The other peripheral devices were drove and operated in turn during all testing.
- 2.5.7. Repeat above procedures form 2.5.3. to 2.5.6.

2.6. Test Procedure

The EUT (within PC) was put on table which was above the ground by 80cm and its Power cord connected to the AC mains through a Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the tested equipment. Both sides of A.C. line were checked to find out the maximum conducted emission according to EN55022 (CISPR 22) Class B regulations during conducted emission measurement.

The bandwidth of the R&S Test Receiver ESHS10 was set at 10KHz.

The frequency range from 150KHz to 30MHz was checked.

2.7. Test Results

PASSED. Please refer to the following pages.

All emissions not reported below are too low against the prescribed limits.

EUT (Switching Power Supply, ATX-250GT) with test voltage of AC 230V/50Hz (via PC) were done on conducted measurement and all the test results are listed in following pages.

Test Date : Jul. 23, 2002 Temperature : 28°C Humidity : 74%

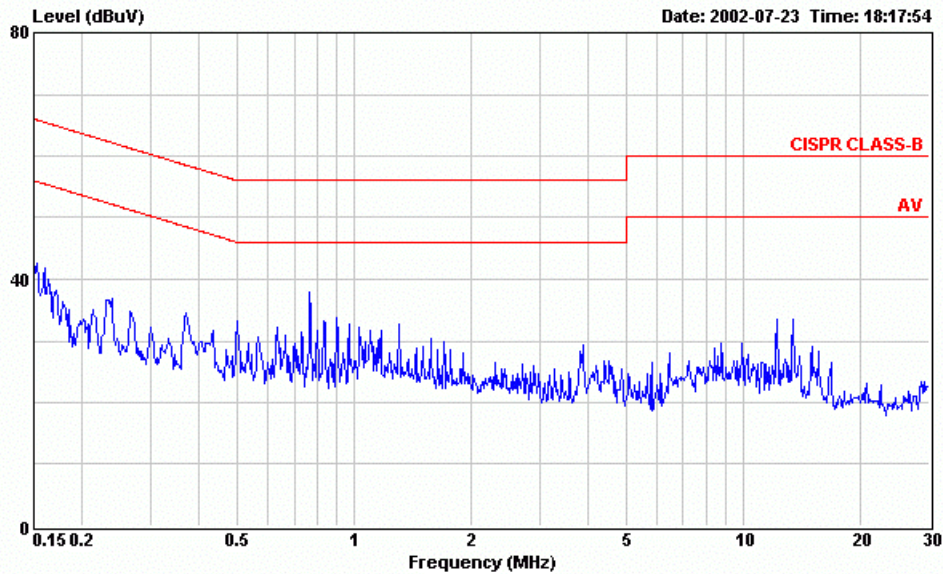
Reference Data # : # 13 (14, 15) ; # 16 (17, 18)



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Data#: 13 File#: D:\Fsp-G91700.EMI



Site : No.4 Shielded room
 Condition : CISPR CLASS-B ENV-4200 LINE
 EUT : S.P.S. M/N:ATX-250GT
 POWER : 230Vac / 50Hz(28°C/74%)
 MEMO : FULL SYSTEM



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 Email:ttemc@ttemc.com.tw

Data#: 14 File#: D:\Fsp-G91700.EMI

Date: 2002-07-23 Time: 18:20:13

Site : No.4 Shielded room
 Condition : CISPR CLASS-B ENV-4200 LINE
 EUT : S.P.S. M/N:ATX-250GT
 POWER : 230Vac / 50Hz(28°C/74%)
 MEMO : FULL SYSTEM

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.156	33.05	-32.62	65.67	22.55	10.30	0.20	QP
2	0.232	35.14	-27.24	62.38	24.66	10.28	0.20	QP
3	0.367	31.59	-26.98	58.57	21.18	10.21	0.20	QP
4	0.767	37.51	-18.49	56.00	27.18	10.13	0.20	QP
5	1.300	30.91	-25.09	56.00	20.41	10.10	0.40	QP
6	12.196	31.49	-28.51	60.00	20.59	10.20	0.70	QP

Data#: 15 File#: D:\Fsp-G91700.EMI

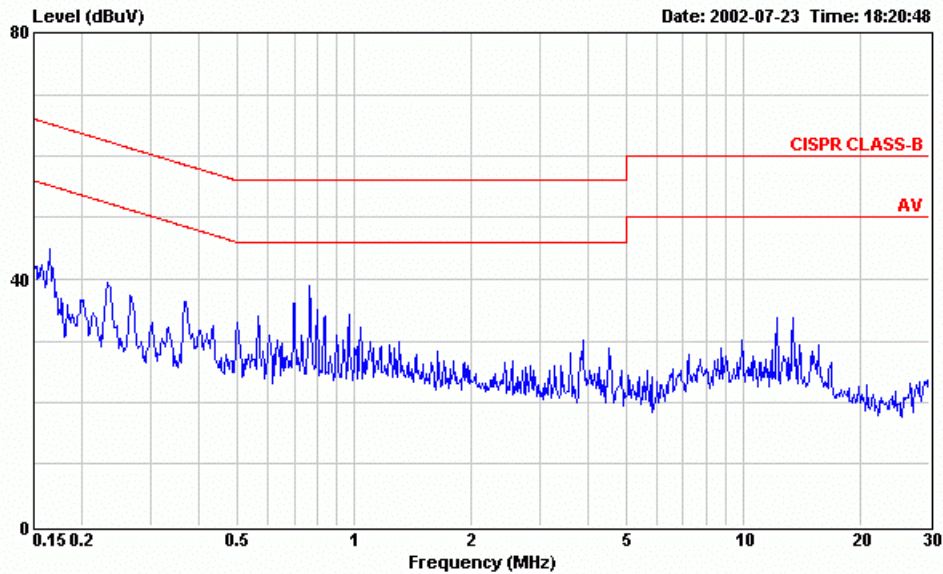
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.156	26.91	-28.76	55.67	16.41	10.30	0.20	Average
2	0.232	30.65	-21.73	52.38	20.17	10.28	0.20	Average
3	0.367	29.55	-19.02	48.57	19.14	10.21	0.20	Average
4	0.767	36.69	-9.31	46.00	26.36	10.13	0.20	Average
5	1.300	28.39	-17.61	46.00	17.89	10.10	0.40	Average
6	12.196	29.17	-20.83	50.00	18.27	10.20	0.70	Average



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Data#: 16 File#: D:\Fsp-G91700.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B ENV-4200 NEUTRAL
EUT : S.P.S. M/N:ATX-250GT
POWER : 230Vac / 50Hz(28°C/74%)
MEMO : FULL SYSTEM



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Data#: 17 File#: D:\Fsp-G91700.EMI

Date: 2002-07-23 Time: 18:24:47

Site : No.4 Shielded room
Condition : CISPR CLASS-B ENV-4200 NEUTRAL
EUT : S.P.S. M/N:ATX-250GT
POWER : 230Vac / 50Hz(28°C/74%)
MEMO : FULL SYSTEM

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.164	38.95	-26.31	65.26	28.45	10.30	0.20	QP
2	0.233	37.20	-25.16	62.36	26.72	10.28	0.20	QP
3	0.366	35.38	-23.21	58.59	24.97	10.21	0.20	QP
4	0.767	38.00	-18.00	56.00	27.67	10.13	0.20	QP
5	1.301	27.26	-28.74	56.00	16.76	10.10	0.40	QP
6	12.200	30.70	-29.30	60.00	19.80	10.20	0.70	QP

Data#: 18 File#: D:\Fsp-G91700.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.164	34.47	-20.79	55.26	23.97	10.30	0.20	Average
2	0.233	34.84	-17.52	52.36	24.36	10.28	0.20	Average
3	0.366	33.78	-14.81	48.59	23.37	10.21	0.20	Average
4	0.767	37.28	-8.72	46.00	26.95	10.13	0.20	Average
5	1.301	20.76	-25.24	46.00	10.26	10.10	0.40	Average
6	12.200	28.00	-22.00	50.00	17.10	10.20	0.70	Average

3. RADIATED EMISSION TEST

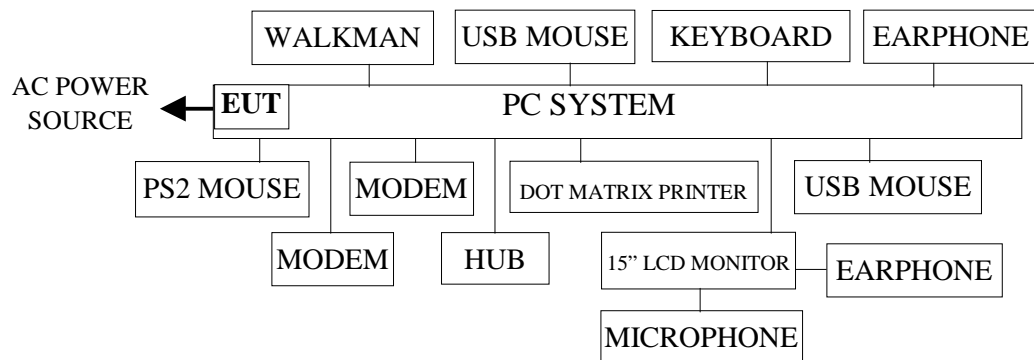
3.1. Test Equipment

The following test equipments are used during the radiated emission tests :

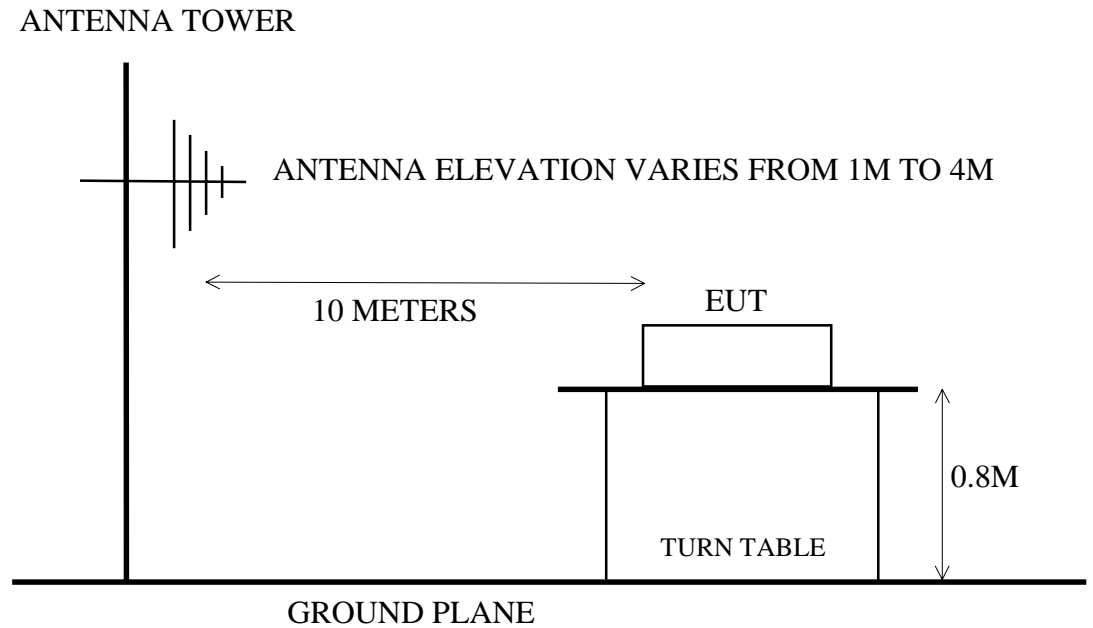
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8595E	3829A03489	Jan.24, 02'	1 Year
2.	Test Receiver	R&S	ESVS10	849231/017	Dec.20, 01'	1 Year
3.	Computer	TOKIN	586PC	N/A	N/A	NA
4.	Printer	Panasonic	KX-2135	N/A	N/A	N/A
5.	Amplifier	HP	8447D	2944A07185	N/A	N/A
6.	Biconical Antenna	Chase	VBA6106A	1227	Nov.27, 01'	1 Year
7.	Log Periodic Antenna	Chase	UPA6109	1061	Nov.27, 01'	1 Year

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Field Test Site (10M) Setup Diagram



3.3. Radiation Limit (EN 55022, Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37

- Note :
- (1) The tighter limit shall apply at the edge between two frequency bands.
 - (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.

3.4. EUT's Configuration during Compliance Measurement

The EN 55022 (CISPR Pub. 22, Class B) regulations test method must be used to find the maximum emission during radiated measurement.

The configuration of EUT is same as used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5. except the test set up replaced by section 3.2.

3.6. Test Procedure

The EUT (within PC) was placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 10 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down among 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) was used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement.

The bandwidth of the R&S Test Receiver ESVS10 was set at 120KHz.

The frequency range from 30MHz to 1000MHz was checked.

EUT (Switching Power Supply, ATX-250GT) with test voltage of AC 230V/50Hz (via PC) were done during radiated measurement and all the test results are listed in section 3.7.

3.7. Test Results

PASSED. Please refer to the following pages.

3.8. Radiated Emission Measurement Results

All emissions not reported below are too low against the prescribed limits.

Date of Test : Jul. 23, 2002 Temperature : 26°C
 EUT : Switching Power Supply Humidity : 55%

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
			Horizontal dBuV	Horizontal dBuV/m			
46.650	16.98	1.37	- 1.77		16.58	30.00	13.42
75.185	13.25	1.79	1.60		16.64	30.00	13.36
118.113	19.10	2.34	- 1.69		19.75	30.00	10.25
146.775	20.38	2.61	- 2.21		20.78	30.00	9.22
175.436	21.46	2.86	- 2.58		21.74	30.00	8.26
* 204.098	21.55	3.10	- 2.46		22.19	30.00	7.81
232.708	22.62	3.35	- 0.18		25.79	37.00	11.21
275.693	24.13	3.67	0.32		28.12	37.00	8.88
318.667	14.39	3.99	3.71		22.09	37.00	14.91
390.282	16.82	4.52	0.59		21.93	37.00	15.07
461.847	17.97	4.96	- 0.72		22.21	37.00	14.79
533.475	19.05	5.31	- 1.00		23.36	37.00	13.64
605.091	20.87	5.57	- 1.06		25.38	37.00	11.62
676.706	21.99	6.04	- 1.55		26.48	37.00	10.52

- Remark :
1. All reading are Quasi-Peak values.
 2. The worst emission is detected at 204.098MHz with corrected signal level of 22.19dBuV/m (limit is 30dBuV/m) when the antenna is at horizontal polarization and is at 4m high and the turn table is at 135° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Jul. 23, 2002 Temperature : 26°CEUT : Switching Power Supply Humidity : 55%

Frequency MHz	Antenna		Meter Reading		Emission Level		Margin dB
	Factor dB/m	Cable Loss dB	Vertical dBuV	Vertical dBuV/m	Limits dBuV/m		
* 46.630	17.41	1.37	7.67	26.45	30.00	3.55	
75.304	13.93	1.79	2.32	18.04	30.00	11.96	
118.169	19.22	2.34	- 1.03	20.53	30.00	9.47	
146.843	20.13	2.61	- 1.73	21.01	30.00	8.99	
175.428	22.04	2.86	- 2.59	22.31	30.00	7.69	
204.103	22.26	3.10	- 2.52	22.84	30.00	7.16	
232.700	22.06	3.35	- 0.13	25.28	37.00	11.72	
275.718	24.74	3.67	0.19	28.60	37.00	8.40	
318.751	14.44	3.99	3.62	22.05	37.00	14.95	
390.316	17.56	4.52	0.84	22.92	37.00	14.08	
461.931	18.68	4.96	- 0.76	22.88	37.00	14.12	
533.496	18.90	5.31	- 0.87	23.34	37.00	13.66	
605.060	20.78	5.57	- 1.18	25.17	37.00	11.83	
676.676	22.55	6.04	- 1.48	27.11	37.00	9.89	

- Remark :
1. All reading are Quasi-Peak values.
 2. The worst emission is detected at 46.630MHz with corrected signal level of 26.45dBuV/m (limit is 30dBuV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 225° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

4. PHOTOGRAPHS

4.1. Photos of Powerline Conducted Measurement



FRONT VIEW OF CONDUCTED TEST



BACK VIEW OF CONDUCTED TEST

4.2. Photos of Radiated Measurement at Open Field Test Site



FRONT VIEW OF RADIATED TEST



BACK VIEW OF RADIATED TEST



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

APPENDIX I

(The Models Difference List)

Difference Model	AC Input	DC Output	Fuse Rating
ATX-250GT	AC 115/230V~, 10/5A, 60/50Hz	250W +3.3V/14.0A, +5V/25.0A, +12V/8.0A, +5Vsb/2.0A, -5V/0.3A, -12V/0.8A	6.3A, 250V~ (+3.3V& +5V=135W Max.)
ATX-200GT	AC 115/230V~, 8/4A, 60/50Hz	200W +3.3V/14.0A, +5V/21.0A, +12V/10.0A, +5Vsb/2.0A, -5V/0.3A, -12V/0.5A	5A, 250V~ (+3.3V& +5V=105W Max.)

Remark : 1. Above all models have the same circuits and PCB layout.
2. The ON/OFF switch is optional.

APPENDIX II (Photos of EUT)

Total Page : 5

Figure 1
M/N : ATX-250GT
General Appearance (Front & Side View)

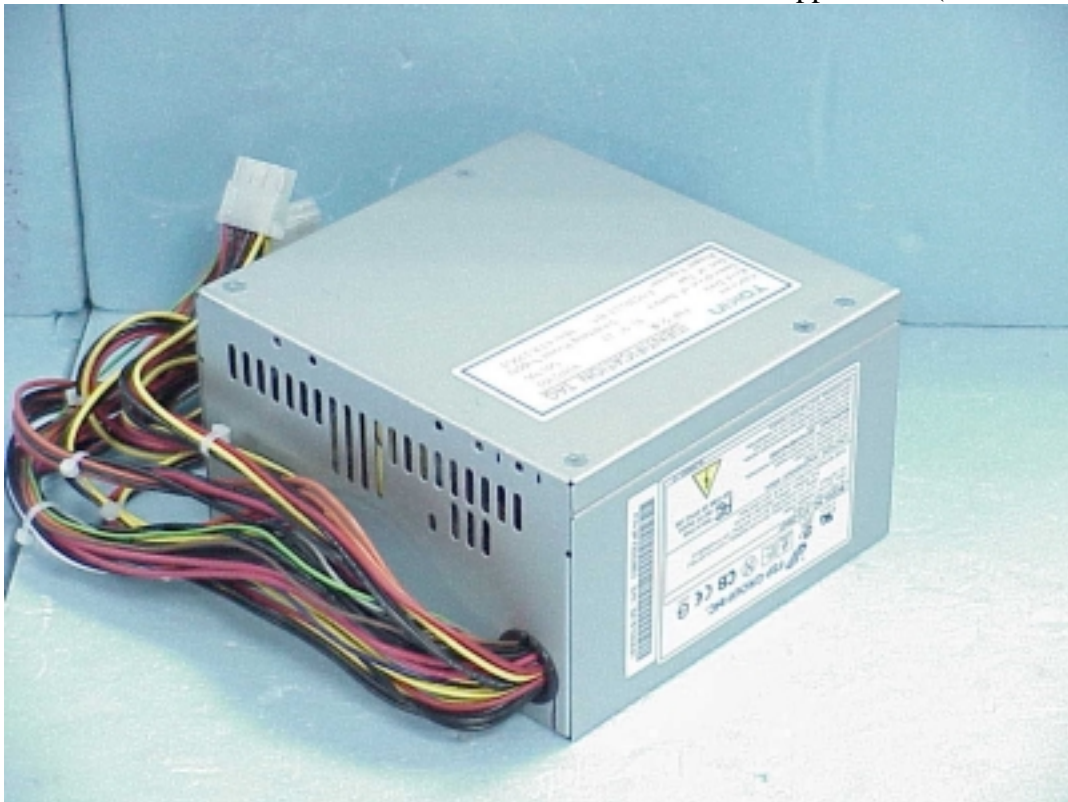


Figure 2
M/N : ATX-250GT
General Appearance (Rear & Side View)



Figure 3
M/N : ATX-250GT
Label



Figure 4
M/N : ATX-250GT
Cover Removed, Internal View



Figure 5
M/N : ATX-250GT
PFC Chock



Figure 6
M/N : ATX-250GT
Internal View

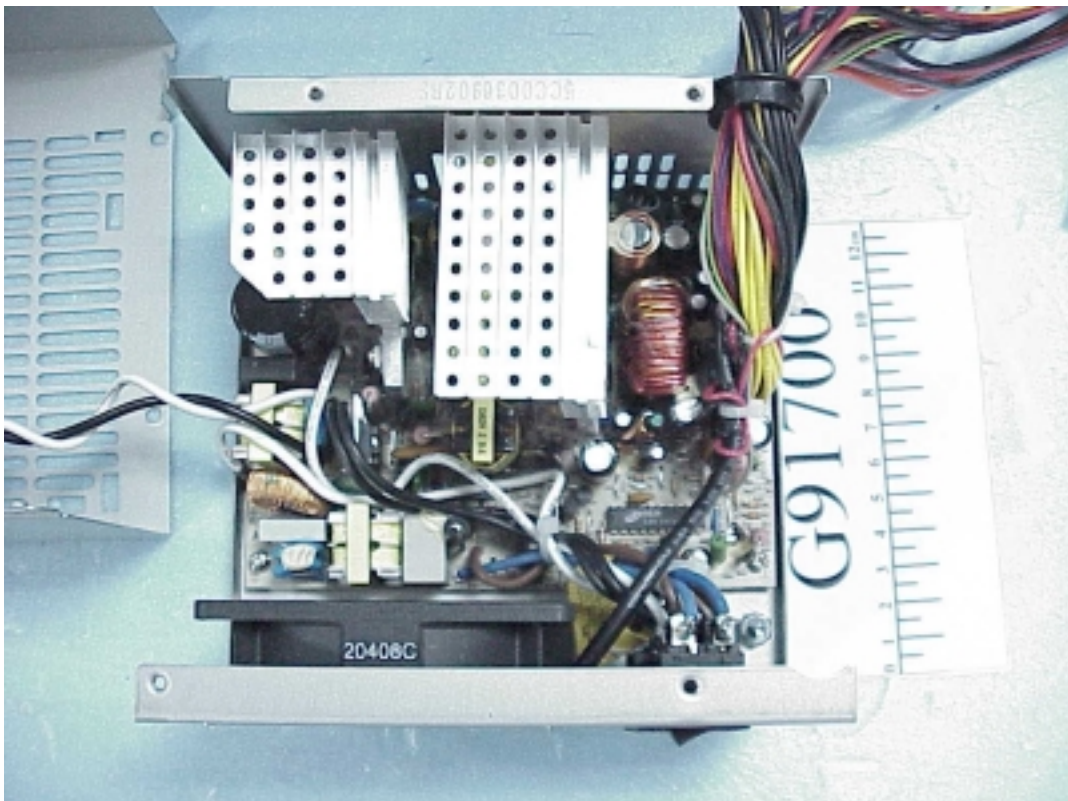


Figure 7
M/N : ATX-250GT
Main Board (Component Side)

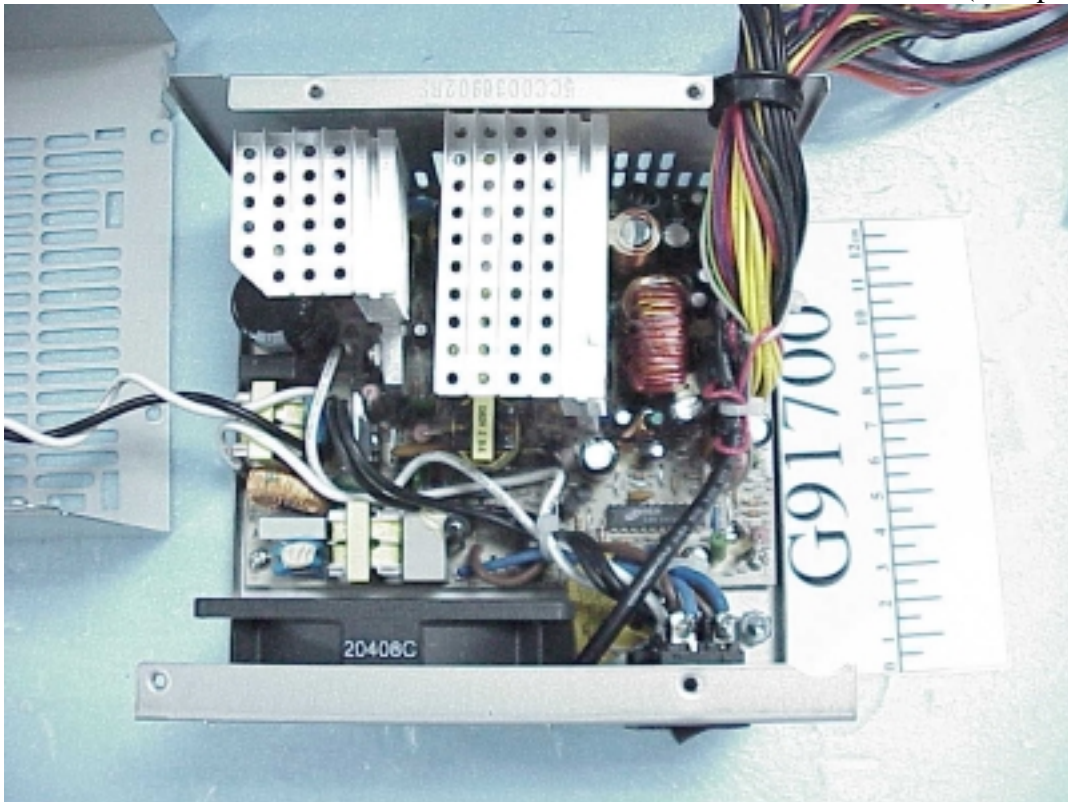


Figure 8
M/N : ATX-250GT
Main Board (Foil Side)

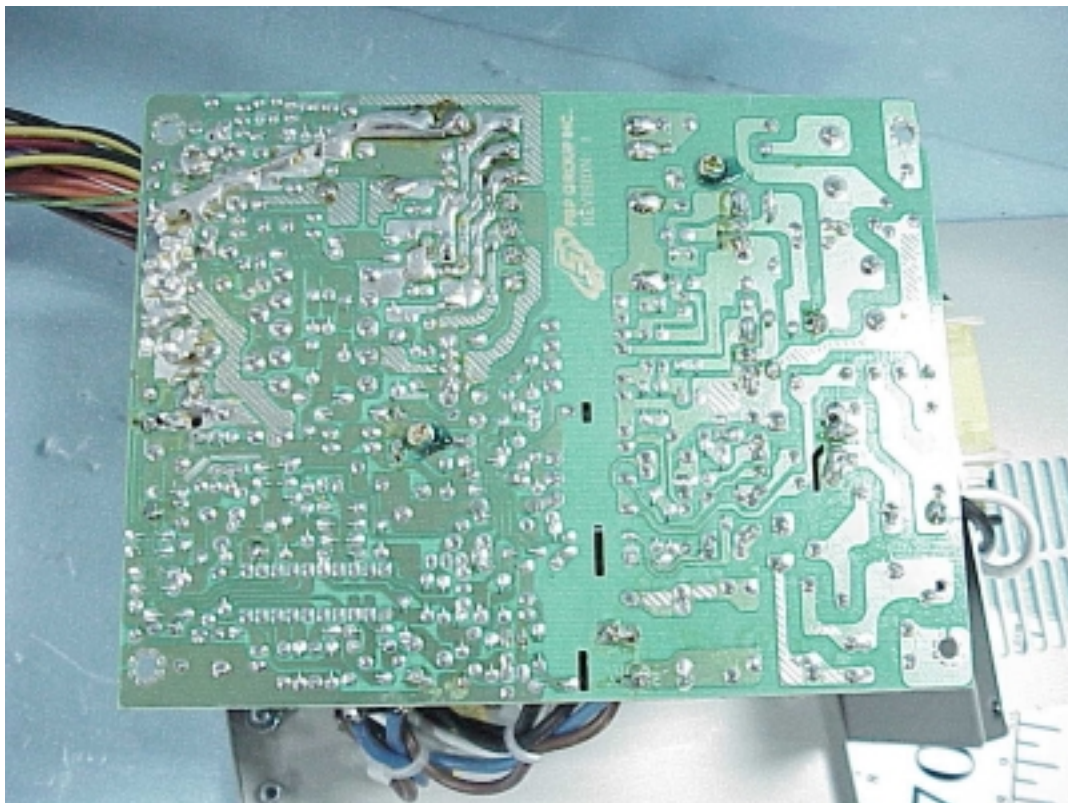


Figure 9
M/N : ATX-250GT
Fan

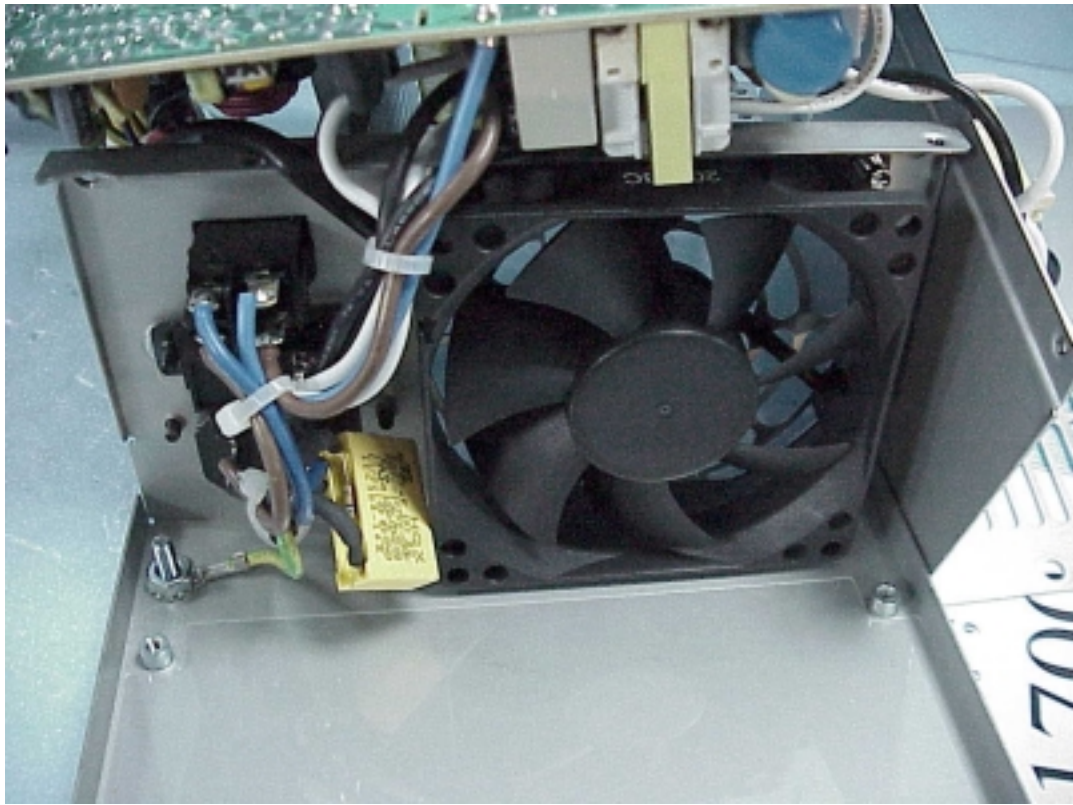


Figure 10
M/N : ATX-250GT
Fan

