

EMC TEST REPORT

REPORT NO. : CE87071009

MODEL NO. : PCM-5894A3.1, PCM-5892A3.1

DATE OF TEST: July 10 ~ July 23, 1998

PREPARED FOR: AAEON TECHNOLOGY INC.

ADDRESS: 1F, NO. 6, ALLEY 6, LANE 45, PAO-HSIN RD., HSIN-TIEN CITY, TAIPEI, TAIWAN, R.O.C.

PREPARED BY:

ADVANCE DATA TECHNOLOGY CORPORATION

12F, NO.1, SEC.4, NAN-KING EAST RD.,

TAIPEI, TAIWAN, R.O.C.

Accredited Laboratory

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CERTIFICATION 1.

Issue date: July 27, 1998

Product

: CPU BOARD

Trade Name

: AAEON

Model No.

: PCM-5894A3.1, PCM-5892A3.1

Applicant

: AAEON TECHNOLOGY INC.

Standard

: EN 55022:1994+A1:1995+A2:1997,

EN 50082-2:1995

Class A

EN 61000-4:2:1995

EN 61000-4-3:1996

EN 61000-4-4:1995

EN 61000-4-6:1996

EN 61000-4-8:1993

ENV 50204:1995

We hereby certify that one sample of the designation has been tested in our facility from July 10 to July 23, 1998. The test record, data evaluation and Equipment Under Test (EUT) configurations represent herein are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

CHECKED BY: Sharen driving, DATE: 7/27/98

(Sharon Hsiung)

APPROVED BY: Make Sur, DATE: 7/27/98

ADVANCE DATA TECHNOLOGY CORPORATION

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product : CPU BOARD

Model No. : PCM-5894A3.1, PCM-5892A3.1

Power Supply Type : DC (from PC)

Data Cable : N/A

Note: The EUT has two model names, which are identical to each other in all aspects except for the following:

MODEL: PCM-5894A3.1, with LCD function
 MODEL: PCM-5892A3.1, without LCD function

From the above models, model: PCM-5894A3.1 was selected as the representative for the test as it has the highest emission levels, and therefore its data is recorded in this report.

During the test, the EUT was installed in a metal enclosure with a slot board to form an industrial PC. The Industrial PC includes the following:

* Chassis : AAEON, model: AIPC-110

* Switching power supply: SEASONIC, model: SSG-250G

* FDD : TEAC, model: FD-235HF * HDD : MAXTOR, 72700AP * CPU : INTEL Pentium 233MHZ * DIO Card: AAEON, model: PCM-3724

The EUT was tested under the CPU: 233 MHz, frequency of clock generator is 66.6 MHz.

For more detailed features description, please refer to ATTACHMENT 1 - TECHNICAL DESCRIPTION OF EUT and User's Manual.

2.2 GENERAL DESCRIPTION OF APPLIED STANDARD

The EUT is a kind of Information Technology Equipment which could be used in industrial area and according to the manufacturer's specifications, it was tested according to the following standards:

EN 55022:1994+A1:1995+A2:1997, Class A EN 50082-2:1995 FN 61000-4-2:1995

EN 61000-4-2:1995 EN 61000-4-3:1996 EN 61000-4-4:1995 EN 61000-4-6:1996 EN 61000-4-8:1993 ENV 50204:1995

All tests are performed and recorded as per above standards.



2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories are used to form representative test configuration during the tests.

FOR EMISSION TEST

Product	Brand	Model No.	Serial No.	I/O Cable
COLOR		DD 050	7200201100100265	Nonshielded Signal (1.5m)
MONITOR	ADI	PD-959	/30020000100263	Shielded Power (1.8m)
		G04.45.4	005 4111511	Nonshielded Signal (1.9m)
PRINTER	HP	C2145A	SGSAHISII	Shielded Power (2.1m)
1.600.71.6	, oppr	1.41.4	000020560	Shielded signal (1.5m)
MODEM	ACEEX	1414	980020569	Nonshielded Power (1.9m)
1400714	A CEEN	1.41.4	000020501	Shielded signal (1.2m)
MODEM	ACEEX	1414	980020501	Nonshielded Power (1.9m)
	CEPY	1.11	000000560	Shielded signal (1.2m)
MODEM	ACEEX	1414	980020369	Nonshielded Power (1.9m)
	ACEEX	4.4.4	000000540	Shielded signal (1.2m)
MODEM		1414	980020540	Nonshielded Power (1.9m)
KEYBOARD	FORWARD	FDA-102A	20613	Shielded Signal (2m)
MOUSE	НР	M-S34	LZA72033314	Shielded signal (1.8m)
20		6560 M (1757)	0002700	Nonshielded power (1.8m)
PC	IBM	6560-Y-171	9983/08	Shielded Signal (2m)
		027.0	C4004.5TF004.02002.4	Shielded signal (1.5m)
MONITOR	ADI	937G	649015100102093A	Nonshielded power (1.8m)
KEYBOARD	FORWARD	FDA-104GA	FDKB8001007	Nonshielded signal (1.2m)
MOUSE	DEXIN	A2P800A	80110014	Shielded signal (1.5m)
				Nonshielded signal 10m
HUB	HUB 3 COM	TP800	7YNR014502	to EUT; 2.0m to PC
				Shielded power (1.9m)
	COLOR MONITOR PRINTER MODEM MODEM MODEM KEYBOARD MOUSE PC MONITOR KEYBOARD MOUSE	COLOR MONITOR ADI PRINTER HP MODEM ACEEX MODEM FORWARD MOUSE HP PC IBM MONITOR ADI KEYBOARD FORWARD MOUSE DEXIN	COLOR MONITOR ADI PD-959 PRINTER HP C2145A MODEM ACEEX 1414 KEYBOARD FORWARD FDA-102A MOUSE HP M-S34 PC IBM 6560-Y-T7T MONITOR ADI 937G KEYBOARD FORWARD FDA-104GA MOUSE DEXIN A2P800A	COLOR MONITOR ADI PD-959 730020U00100265 PRINTER HP C2145A SG5AH1511 MODEM ACEEX 1414 980020569 MODEM ACEEX 1414 980020501 MODEM ACEEX 1414 980020569 MODEM ACEEX 1414 980020540 KEYBOARD FORWARD FDA-102A 20613 MOUSE HP M-S34 LZA72033314 PC IBM 6560-Y-T7T 9983708 MONITOR ADI 937G 649015T00102093A KEYBOARD FORWARD FDA-104GA FDKB8001007 MOUSE DEXIN A2P800A 80110014

Note: Support unit $1\sim8$ acted as SERVER PC and communicated with support unit 9-12 (which acted as HOST PC and systems of communication partner) via support unit 13.



FOR IMMUNITY TEST

No.	Product	Brand	Model No.	Serial No.	I/O Cable
1	KEYBOARD	ACER	6311	K6357050927	Shielded signal (2.0m)
) (a) www.a	. contact		271.	Shielded Signal (1.3m)
2	MONITOR	ACTION	0951	N/A	Nonshielded Power (1.3m)
3	MOUSE	HP	M-S34	LZA72701223	Shielded Signal (1.8m)
					Shielded signal (1.5m)
4	MODEM	ACEEX	1414	980020527	Nonshielded power (1.8m)
_					Shielded signal (1.5m)
5	MODEM	ACEEX	1414	980020528	Nonshielded power (1.8m)
_					Shielded signal (1.5m)
6	MODEM	ACEEX	1414	980020517	Nonshielded power (1.8m)
					Shielded signal (1.5m)
7	MODEM	ACEEX	1414	980020514	Nonshielded power (1.8m)
		НР			Shielded signal (2m)
8	PRINTER		C2145A	SG5H1601K	Nonshielded power (1.8m)
9	PC	IBM	6560-Y-T7T	9983708	Nonshielded power (1.8m)
9	rc	IDM	0300-1-171	9983708	Shielded Signal (2m)
10	MONITOR	ADI	937G	649015T00102093A	Shielded signal (1.5m)
10	MONTOR		7570	047013100102073A	Nonshielded power (1.8m)
11	KEYBOARD	FORWARD	FDA-104GA	FDKB8001007	Nonshielded signal (1.2m)
12	MOUSE	DEXIN	A2P800A	80110014	Shielded signal (1.5m)
					Nonshielded signal 10m
13	HUB	3 COM	TP800	7YNR014502	to EUT; 2.0m to PC
					Shielded power (1.9m)

Note: Support unit $1\sim8$ acted as SERVER PC and communicated with support unit 9-12 which acted as HOST PC and systems of communication partner via support unit 13 .

2.4 TEST SETUP

Please refer to the photos of test configuration in Item 6.



3. TEST INSTRUMENTS

3.1 TEST INSTRUMENTS (EMISSION)

RADIATED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
<u> </u>			
HP Spectrum Analyzer	E4411A	US37360834	Sept. 28, 1998
CHASE Preamplifier	CPA9231A/4	3215	Oct. 31, 1998
HP Preamplifier	8347A	3307A01088	Sept. 4, 1998
ROHDE & SCHWARZ TEST	ESVS 30	841977/002	Jan. 8, 1999
RECEIVER			
SCHWARZBECK Tunable	VHA 9103	E101051	Nov. 28, 1998
Dipole Antenna	UHA 9105	E101055	
CHASE BiLOG Antenna	CBL6112	2074	Dec. 25, 1998
EMCO Double Ridged Guide	2115	0212 4102	A mail 2 1000
Antenna	3115	9312-4192	April 3, 1999
CHANCE Turn Table & Tower	ACS-I	N/A	N/A
Controller			
Open Field Test Site	Site 6	ADT-R06	Dec. 23, 1998

Note: 1. The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMA's document NIS81.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

CONDUCTED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until	
ROHDE & SCHWARZ Test	EGHG20	929100/007	Ana 4 1009	
Receiver	ESHS30	828109/007	Aug. 4, 1998	
ROHDE & SCHWARZ	ECH 2.75	202107/002	T1 22 1000	
Artificial Mains Network	ESH2-Z5	892107/003	July 22, 1998	
EMCO L.I.S.N.	3825/2	9504-2359	Aug. 1, 1998	
Shielded Room	Site 3	ADT-C03	N/A	

Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMA's document NIS81.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

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3.2 TEST INSTRUMENTS (IMMUNITY)

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
KeyTek, ESD Test System	2000-	9105240/41	Aug. 10, 1998
KeyTek, ESD Simulator	MZ-15/EC	9507277	April 15, 1999
KeyTek, EFT Generator	CE-40	9508257	Sept. 9, 1998
KeyTek, Capacitive Clamp	CE-40-CCL	9508259	Sept. 9, 1998
ROHDE & SCHWARZ	SMY01	840490/009	Sept. 29, 1998
Signal Generator			
KALMUS Power Amplifier	LA1000V	091995-1	N/A
KALMUS Power Amplifier	757LC	091995-2	N/A
HOLADAY Field Probe	HI-4422	89915	Oct. 12, 1998
EMCO BiconiLog Antenna	3141	1001	N/A
COMTEST Compact Full	CFAC	ADT-S01	Aug. 4, 1998
Anechoic Chamber (7x3x3 m)			

Note: The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.



4. TEST RESULTS (EMISSION)

4.1 RADIO DISTURBANCE

Product Family Standard : EN 55 022+A1: 1995+A2: 1997, Class A

Frequency Range : 0.15 - 30 MHz (Conducted Emission)

30 - 1000 MHz (Radiated Emission)

Input Voltage : 230 Vac, 50 Hz (to PC)

Temperature : $30 \, ^{\circ}$ C Humidity : $61 \, \%$

Atmospheric Pressure : 997 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -21.9 dB at 3.915 MHz
rass -	Minimum passing margin of radiated emission: -2.9 dB at 160.00 MHz

4.1.1 EUT OPERATION CONDITION

- 1. Turn on the power of all equipments.
- 2. Industrial PC reads a test program to enable all functions.
- 3. The Industrial PC reads and writes messages from HDD.
- 4. The Industrial PC sends "H" messages to monitor and monitor display "H" patterns on screen.
- 5. The Industrial PC sends "H" messages to modem.
- 6. The Industrial PC sends "H" messages to printer, and the printer prints them on paper.
- 7. Repeat steps 2-7.



4.1.2 TEST DATA OF CONDUCTED EMISSION

EUT: CPU BOARD

MODEL: PCM-5894A3.1

6 dB Band Width: 10 kHz

TEST PERSONNEL: John Liack

Freq. L Level		N L	Level Limit		Margin [dB (μV)]						
[MHz]	[dB (μ V)]	[dB ([dB (µV)]		[dB (µV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.183	45.80	_	48.10	-	79.00	66.00	-33.2	_	-30.9	-	
0.297	41.60	-	43.90	-	79.00	66.00	-37.4	-	-35.1	-	
0.642	38.70	-	37.80	-	73.00	60.00	-34.3	-	-35.2	-	
3.915	49.90	-	51.10	-	73.00	60.00	-23.1	-	-21.9	-	
8.250	36.20	-	40.40	-	73.00	60.00	-36.8	-	-32.6	-	
23.660	39.90	-	40.80	ı	73.00	60.00	-33.1	-	-32.2	-	

- Remarks: 1. "*": Undetectable
 - 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 - 3. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 - 4. The emission levels of other frequencies were very low against the limit.
 - 5. Margin value = Emission level Limit value

ELIT:

PCM-6894 (PCM-8784)

Manuf; Took Spec;

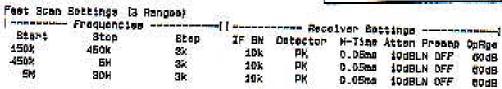
CPU: INTELESS

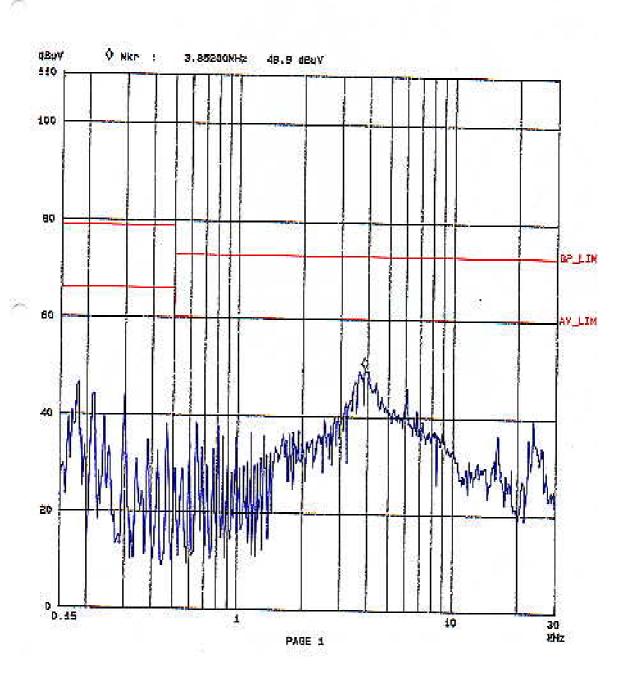
LIBN ; L

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Tested by John Liaa





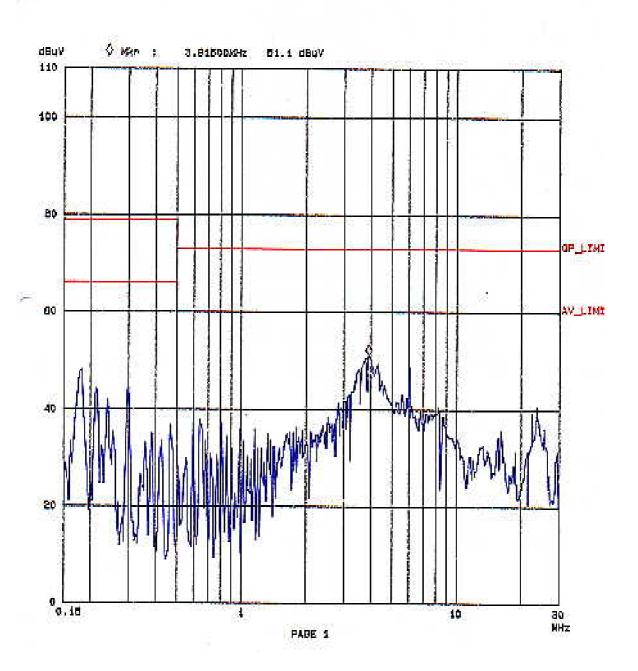
EUT:

PCM-5804 (PCH-3724) CPU: INTEL299 LISN : N

Manuf: Test Spec:

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Foot Scan	Settinge (3 #	langoa)						
1	- Frequencies		la cerata	Посе	Syer Se	ttings		-34
Start	Btop	Step	IF BM			Atten Pre		Roa .
160k	460K	ak	20%	PK	0.05mg	10dBLN D		ОДВ
450k	BH	ak	10%	PK	0.05mg	10dBLN D	FF 8	ОДВ
EM	90H	ak	10k	PK	0.05ka	10dBLN O	FF 6	OdB





4.1.3 TEST DATA OF RADIATED EMISSION

MODEL: PCM-5894A3.1 **EUT: CPU BOARD**

POLARITY: Horizontal ANTENNA: CHASE BILOG CBL6112

6 dB BANDWIDTH: 120 kHz **DETECTOR FUNCTION: Quasi-peak**

MEASURED DISTANCE: 10 M FREQUENCY RANGE: 30-1000 MHz

TEST PERSONNEL: John Liva

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
118.69	15.5	9.6	25.1	40.0	-14.9
120.33	15.6	15.6	31.2	40.0	-8.8
150.00	12.1	20.4	32.5	40.0	-7.5
200.50	10.5	23.0	33.5	40.0	-6.5
201.70	10.6	13.4	24.0	40.0	-16.0
213.34	11.7	15.5	27.2	40.0	-12.8
240.61	14.2	24.2	38.4	47.0	-8.6
292.39	16.1	21.2	37.3	47.0	-9.7
750.00	23.8	13.4	37.2	47.0	-9.8

REMARKS:

- 1. Emission level (dBuV/m) = Correction Factor(dB/m)+Meter Reading (dBuV).
- 2. Correction Factor(dB/m) = Ant. Factor(dB/m)+Cable loss(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value



TEST DATA OF RADIATED EMISSION

MODEL: PCM-5894A3.1 **EUT: CPU BOARD**

ANTENNA: CHASE BILOG CBL6112

POLARITY: Vertical

DETECTOR FUNCTION: Quasi-peak

6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz

MEASURED DISTANCE: 10 M

TEST PERSONNEL: John Liaa

Frequency (MHz)	Correction Factor (dB/m)	Reading Data dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
66.28	7.5	27.3	34.8	40.0	-5.2
120.30	14.2	21.9	36.1	40.0	-3.9
121.95	14.2	17.3	31.5	40.0	-8.5
149.99	12.8	23.2	36.0	40.0	-4.0
160.00	12.3	24.8	37.1	40.0	-2.9
199.97	11.8	17.9	29.7	40.0	-10.3
200.51	11.9	21.4	33.3	40.0	-6.7
749.99	23.4	9.4	32.8	47.0	-14.2

REMARKS:

- 1. Emission level (dBuV/m) = Correction Factor(dB/m)+Meter Reading (dBuV).
- Correction Factor(dB/m) = Ant. Factor(dB/m)+Cable loss(dB)
 The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value



5. TEST RESULTS (IMMUNITY)

5.1 GENERAL DESCRIPTION

Basic Standard : EN61000-4-2 (Electrostatic Discharge Test, ESD)

EN61000-4-3 (Radiated Radio-Frequency

Disturbance Test, RS)

EN61000-4-4 (Electrical Fast Transient/Burst Test, EFT)

EN61000-4-6 (Conducted Radio Frequency

Disturbances Test, CS)

EN61000-4-8 (Power Frequency Magnetic Field Test)

ENV50204 (Radio-Frequency Electromagnetic

Field, Pulse modulated)

Generic Standard

EN 50082-2

Input Voltage : 230 Vac, 50 Hz (to power of Industrial PC)

Temperature : 28 °C

Humidity : 58 % Atmospheric Pressure : 998 mbar

5.2 PERFORMANCE CRITERIA DESCRIPTION

Criterion A - The apparatus shall continue to operate as intended. No degradation

of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as

intended.

Criterion B - The apparatus shall continue to operate as intended after the test. No

degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus

is used as intended.

Criterion C - Temporary loss of function is allowed, provided the function is self-

recoverable or can be restored by the operation of the controls.

5.3 EUT OPERATION CONDITION

Industrial PC runs a test program to access FDD/HDD/MODEM/PRINTER sequentially and show the result on monitor screen.



5.4 TEST RESULT OF ELECTROSTATIC DISCHARGE (ESD)

Basic Standard : EN61000-4-2 Generic Standard : EN 50082-2

Discharge Impedance: 330 ohm / 150 pF

Discharge Voltage : Air Discharge - 8 kV (Direct/Indirect)

(Direct/Indirect) Contact Discharge - 4 kV

Polarity : Positive/Negative

Number of Discharge: Minimum 10 times at each test point

Discharge Mode : Single Discharge Discharge Period : 1-second minimum

Test Result Remarks
Criterion A PASS Model: PCM-5894A3.1

OBSERVATION DESCRIPTION

Direc	t Applica	tion	Test Result		
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge	
8	+/-	1 ~ 4	N/A	Note 1	
4	+/-	1,3,4	Note 1	N/A	

Description of test point:

Test Personnel

Metal of case
 Power switch
 VGA port
 I/O ports

Indirect Application			Test R	esult
Discharge Level	Polarity	Test Point	Horizontal Coupling	Vertical Coupling
(kV)	(+/-)			
4	+/-	1 ~ 4	Note 1	Note 1

Description of test point:

Front side
 Right side
 Rear side

Description of test result:

Note 1: There was no change compared with initial operation during the test.

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5.5 TEST RESULT OF RADIATED RADIO FREQUENCY **DISTURBANCES (RS)**

Basic Standard

EN 61000-4-3

Generic Standard

EN 50082-2

Frequency range

80 MHz - 1000 MHz

Field strength

10 V/m

Modulation

1kHz Sine Wave, 80%, AM Modulation

Frequency step

1 % of fundamental

Polarity of Antenna :

Horizontal and Vertical

Test distance

3 m

Test Personnel: To fluore

Test Result	Remarks
Criterion A PASS	Model: PCM-5894A3.1

Note: Four sides of EUT are verified separately.

OBSERVATION DESCRIPTION

There is no change compared with initial operation during the test.



5.6 TEST RESULT OF ELECTRICAL FAST TRANSIENT/BURST (EFT/BURST)

Basic Standard

EN61000-4-4

Generic Standard

EN 50082-2

Test Voltage

Power Line - 2 kV (to power of Industrial PC)

Signal/Control Line - N/A

Polarity

: Positive/Negative

Impulse Frequency

5 kHz

Tr / Tn

5/50 ns

Burst Duration

15 ms

Burst Period

15 1115

Test Duration

300 ms

1 est Duration

Not less than 1 min.

Test Personnel

V /

Test Result	Remarks
Criterion A PASS	Model: PCM-5894A3.1

OBSERVATION DESCRIPTION

Test Point	Polarity	Test Level (kV)	Result
L1	+/-	2	Note 1
L2	+/-	2	Note 1
GND	+/-	2	Note 1

Description of test result:

Note 1: There was no change compared to initial operation during the test.



5.7 TEST RESULT OF CONDUCTED RADIO FREQUENCY DISTURBANCES (CS)

Basic Standard

EN 61000-4-6

Generic Standard

EN 50082-2

Frequency range

0.15 MHz - 80 MHz

Field strength

10 V/m

Modulation

1kHz Sine Wave, 80%, AM Modulation

Frequency step

1 % of fundamental

Coupled cable

Power Mains, Unshielded

Coupling device

CDN-M3 (3 wires)

Test Personnel

- in Genny

Test Result	Remarks
Criterion A PASS	Model: PCM-5894A3.1

OBSERVATION DESCRIPTION

There is no change compared with initial operation during the test.



5.8 TEST RESULT OF POWER FREQUENCY MAGNETIC FIELD

Basic Standard

EN61000-4-8

Generic Standard

EN50 082-2

Frequency range

50Hz

Field strength

Observation Time

30 A/m

1 minute

Inductance coil

Rectangular type, 1mx1m

Test Personnel

Test Result	Remarks
Criterion A PASS	Model: PCM-5894A3.1

OBSERVATION DESCRIPTION

There was no change compared with initial operation during the test.



5.9 TEST RESULT OF RADIO-FREQUENCY ELECTROMAGNETIC FIELD, PULSE MODULATED

Basic Standard

ENV 50204

Generic Standard

EN 50082-2 .

Frequency range

900 +/- 5 MHz

Field strength

10 V/m

Modulation

200Hz, Square Wave, 50% Duty Cycle

Dewell Time

30 second

Polarity of Antenna :

Horizontal and Vertical

Test distance

3 m

Test Personnel

The yeung

Test Result	Remarks
Criterion A PASS	Model: PCM-5894A3.1

Note: Four sides of EUT are verified separately.

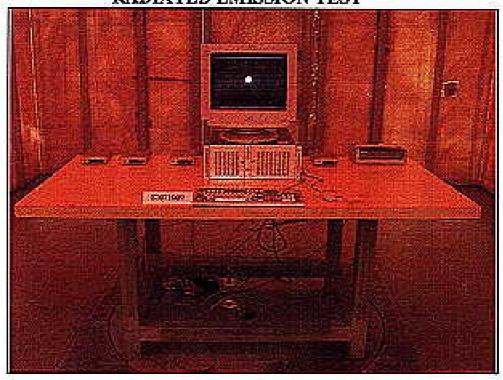
OBSERVATION DESCRIPTION

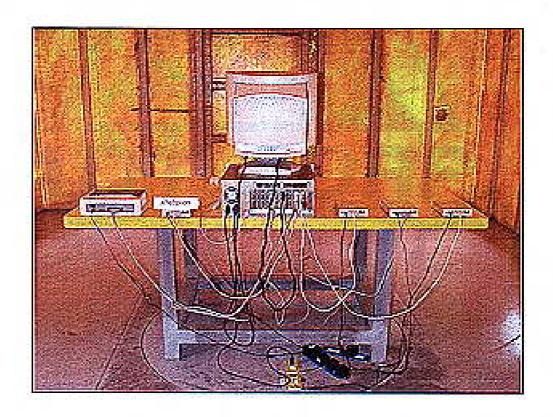
There is no change compared with initial operation during the test.



PHOTOGRAPHS OF THE TEST CONFIGURATION

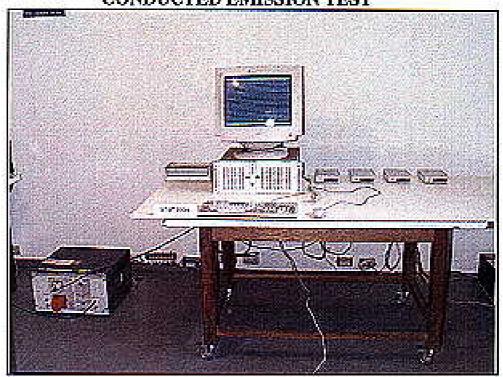


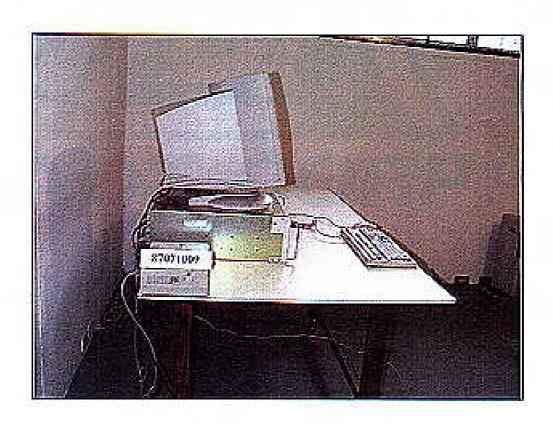






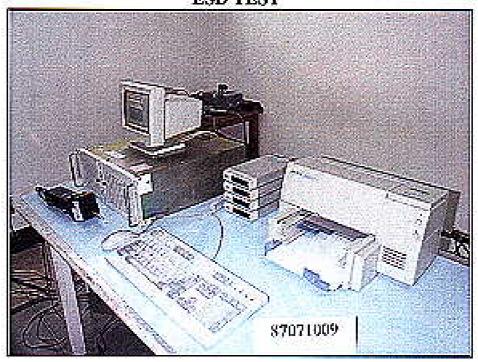
CONDUCTED EMISSION TEST

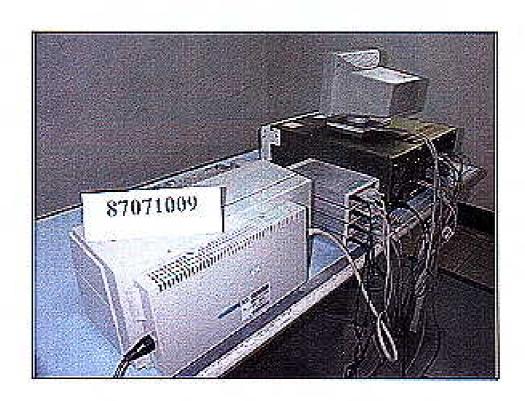






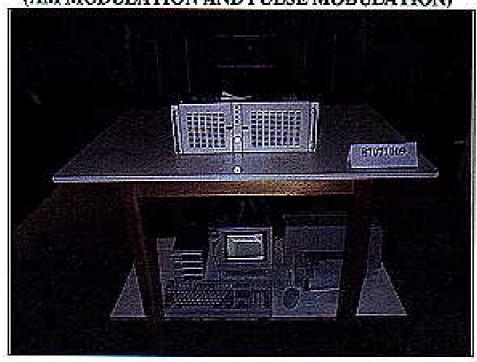
ESD TEST

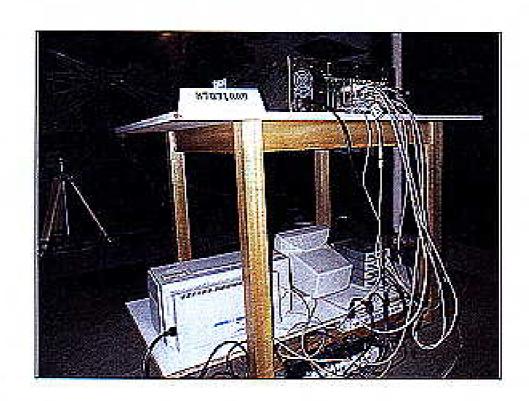






RS TEST
(AM MODULATION AND PULSE MODULATION)







EFT TEST

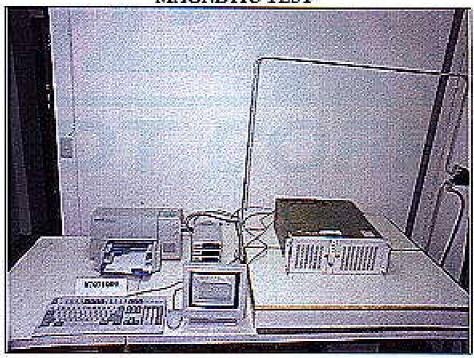




CONDUCTED SUSCEPTIBILITY TEST



MAGNETIC TEST



CONSTRUCTION PHOTOS OF EUT







(3)



