ISO-9001 Certified
Industrial Automation with PCs
ADVANTECH CO., LTD.

QA Test Report

PCA-6159F
IPC-610
(Environment Test)

Report No : 98TD007

Issue Stamp	Manager of QA Department	Approval

PCA-6159F&IPC-610 **High Temp & Hum Test** **Report No.** 98TD007-1

QA Lab Reliability test

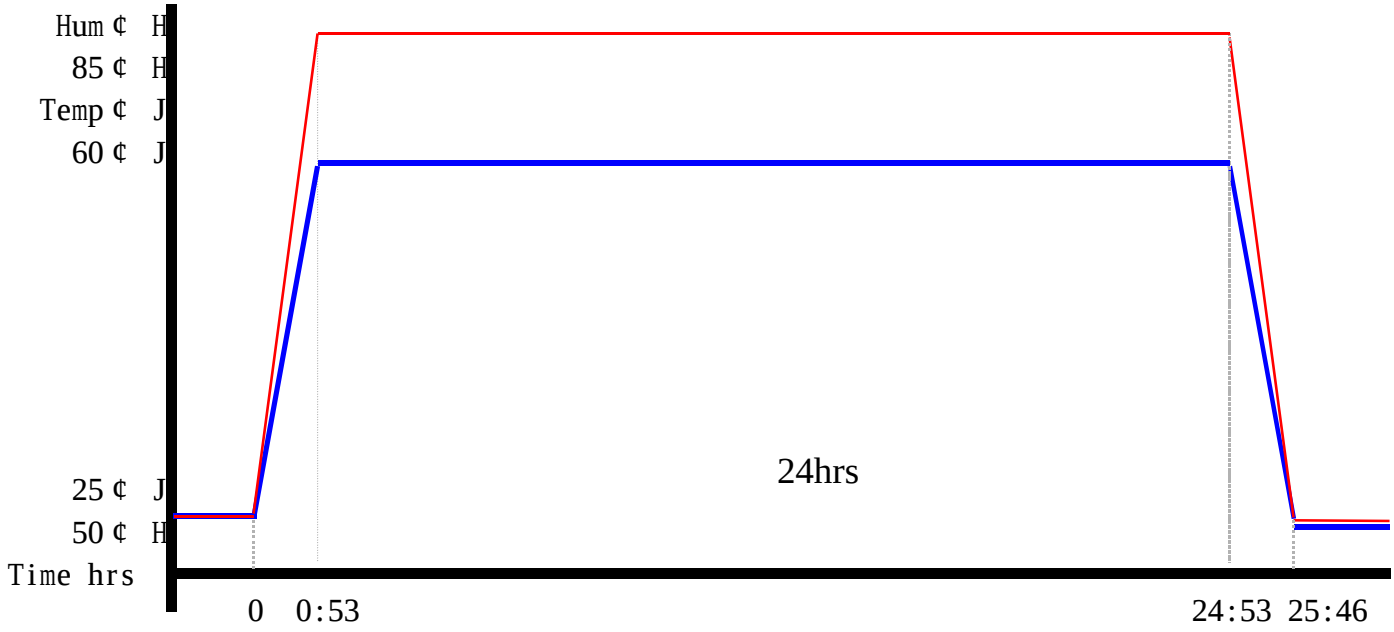
Test Date : February 25 ,1998 ~ February 26 ,1998
Test Site : Advantech QA Environment Lab
Performed By : Charles Chang

Purpose : The customer request test

Test Standard : Reference IEC68-2-3 Testing procedures
Test Ca : Damp heat

Test Condition :

1. Test Temperature : 60 ¢ J
2. Test Humidity : 85%
3. Temperature gradient :40 ¢ J/Hour
4. Test Time : 24hrs
5. Test Software : QAPlus/fe Ver 5.29
6. Test Environment Curve :



Test Equipment : Programmable Temperature & Humidity Chamber
GIANT FORCE CO. LTD.
Model : GTH-408-40-1P
S/N : GF-95791-1
Date of Calibration : 04-17-1997

Maxtor HDD
Model :83240D3

Sample Configuration & Quantity Under Test :

Using one IPC-610-250 chassis with the following options installed:

1. PCA-6159F Ver A1.02-1
   ① CPU Chipset: Intel 82439TX
   Intel 82371AB
   ② CPU : AMD-K5-PR133MHz
   ③ DRAM : Panasonic MN417400BSJ-07 32MB (16MB ¡ 2Ñ)
   ④SRAM : Winbond W25P022AF-6
   ⑤VRAM : TM T224162A-40J
   ⑥VGA : CHIPS F65550
   ⑦LAN : RTL8029
   ⑧SCSI : Adaptec ACI-7880P
   ⑨Super I/O : ITE IT8679F
2. Backplane : PCA-6114P4 Ver A1.02
3. Power supply : Seasonic SSG-250G
4. Monitor : TATUNG CM14SBE
5. K/B : SANYO AYKB-104

Performance Criteria :

Before check:

1. Power on/off check.
2. CMOS data setting check.
3. System warm up 30 min.

After Electronic function check:

1. The QAPlus/fe test program select normal item to test, The system must pass these items.
2. All system function must have properly test program to test and passed this test.

Test Result :

Test is no electronic and mechanical function damage or degradation have found, and without any incurably physical damage degradation the performance.

Conclusion :

PASSED the IPC-610 & PCA-6159F meet the high temperature & humidity test.

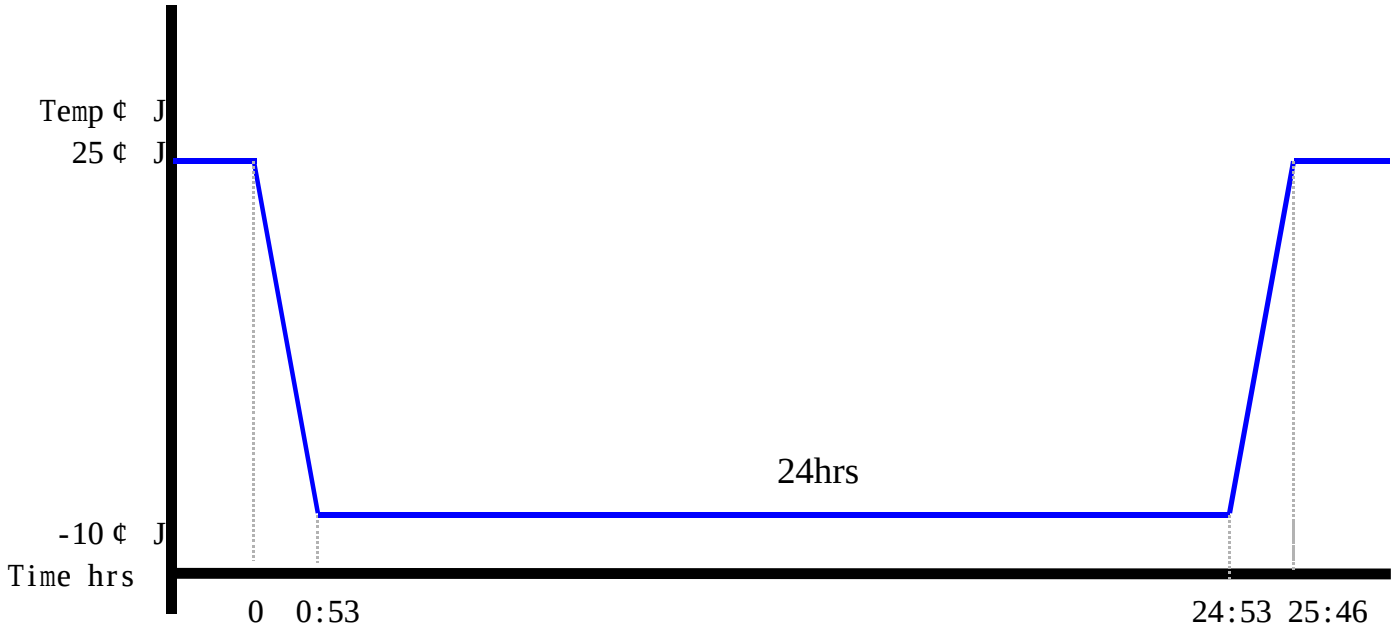
Test Date : February 26 ,1998 ~ February 27 ,1998
Test Site : Advantech QA Environment Lab
Performed By : Charles Chang

Purpose : The customer request test

Test Standard : Reference IEC68-2-1 Testing procedures
Test Ab : Cold

Test Condition :

1. Test Temperature : -10 ¢ J
2. Temperature gradient : 40 ¢ J/Hour
3. Test Time : 24hrs
4. Test Software : QAPlus/fe Ver 5.29
5. Test Environment Curve :



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Test Result :

Test is no electronic and mechanical function damage or degradation have found, and without any incurably physical damage degradation the performance.

Conclusion :

PASSED the IPC-610 & PCA-6159F meet the low temperature test.