QA Test Report

ACP-2320

(Random Vibration Test)

Report No: 08V026A0

Report Date : April 8, 2008

Issue Stamp

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QA Lab Reliability test

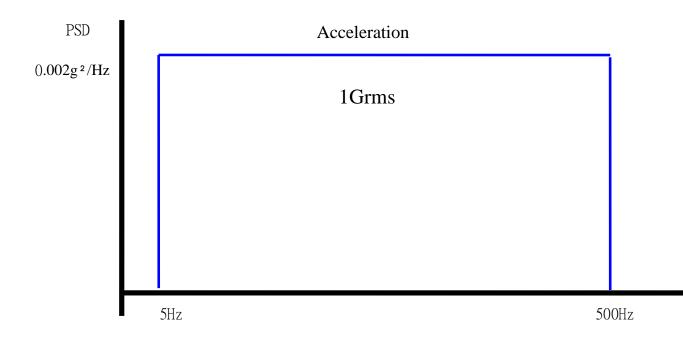
Test Date :February 14,2008Test Site :Advantech QA Environment LabPerformed By : Jeff Yang

Purpose : The DVT test

Test Standard : Reference IEC60068-2-64 Testing procedures Test Fh : Vibration boardband random test

Test Condition :

- 1. Test PSD : 0.002G²/Hz, 1Grms
- 2. Test Frequency: 5-500Hz
- 3. Test Axis : X, Y and Z axis
- 4. Test Time : 1Hr per axis
- 5. Test Software : Running BurnIn test V4.0 test program in WinXP
- 6. Test Vibration Curve :



ACP-2320

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Test Equipment : Vibration Simulator System KING DESIGN Co. LTD. Model : 9363EM-600F2K-40N120 S / N : UC107142493 Date of Calibration : 09/12/2007

Sample Configuration & Quantity Under Test :

Using one ACP-2320 system with the following options installed :

- 1. M/B: AIMB-764 A1
- 2. Chassis : ACP-2320
- 3. CPU: Intel Pentium 4 3.8GHz
- 4. RAM: Transcend DDR2 533 512MB*1
- 5. HDD : Seagate ST380013AG SATA 80GB*1 Hitachi HDS728080 PLA 380 SATA 80GB*2
- 6. Power supply : LEMACS P2U-6300P 285W
- 7. System fan : Delta AFB0812SH*2
- 8. CPU cooler : P/N : 1750000332

Performance Criteria :

Electronic function check:

- 1. All system functions must be checked with appropriate testing programs and should pass the inspection.
- 2. Running WinXP for OS, the system should not have degradation in its performance.

Mechanical function check:

- 1. The switch button covers, slot can work properly without any interference.
- 2. All screws are tightening up appropriately.
- 3. All gaps on the surface are appropriately.
- 4. Assembling/disassembling the system enclosure or mechanical parts must be smoothes, and no deformed parts found.

QA Lab Reliability test

Test Result :

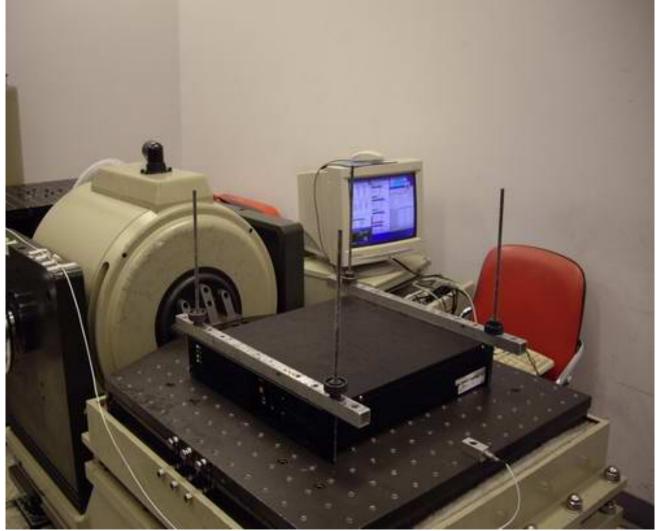
There is no damage in electronic and mechanical functions. Degradation has not been found. Performance is maintained with no incurable physical damage or degradation.

Conclusion :

Passed.

The ACP-2320 meets random vibration operation test.

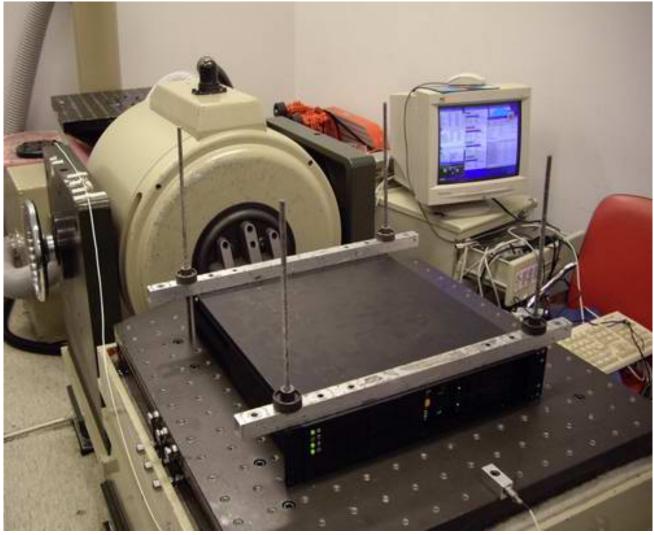
Photo I:



ACP-2320 random vibration test for X-axis

QA Lab Reliability test

Photo II :



ACP-2320 random vibration test for Y-axis

QA Lab Reliability test

Photo III :



ACP-2320 random vibration test for Z-axis