AAEON Technology INC
ISO-9001/14001 Certifide
Industrial Automation PCs

AMB-551(SBC-676)
Environment Test Report

Report NO : 02P0A0002

Issued by:		/	*10/01/2002*
	Rex Chang		**Date**
	QE Engineer		
Reviewed by:		/	*10/01/2002*
	Lindon-Lin		**Date**
	QE Manager		

Num	Item	Spec
1.	Panel PC :	AMB-551
	1.Mother Board	AAEON SBC-676
	2.LCD	Fujitsu FLC 38XGC6V-06
	3.Inverter	SI JING HARNG 8592F-01
	4.Switching Power Supply	Magic Power MPI-925A
	5.CPU	Intel PentiumIII 1GHz(100*10)
	6.DRAM	64MB NEC D4564841G5-A10-9JF(PC100 SDRAM)
	7.System BIOS	SBC-676 BIOS 1.1
	8.HDD	Fujitsu MPG3204AT-E

Temperature cycle test

Report NO. 02P0A0002

AMB-551 (SBC-676)

Test Date: 09-23~09-25-2002
Test Product: AMB-551 15" LCD Panel PC.
Test Site: AAEON QA Internal Lab.
Performed By : Rex Chang

Test Standard :

Reference IEC 68-2-61 Testing procedures
Test Z/ABD : Climatic Sequence Test

Test Equipment:

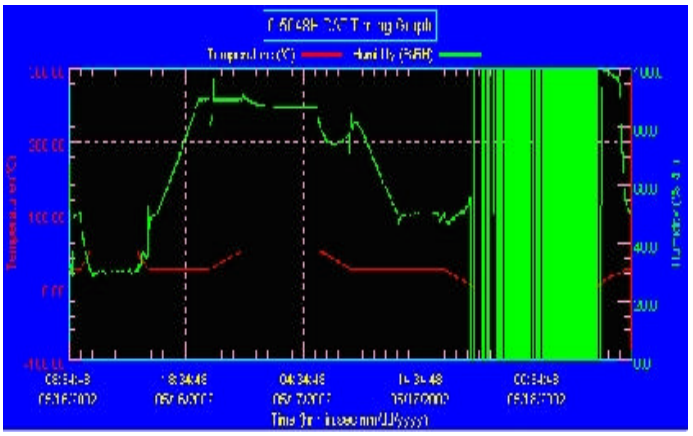
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model : THS-D4H+-100
Date of Calibration : 06/10/01
Serial Number: 1241

Temperature & Humidity Cycle Test:

Testing Specification

Step	Temperature (℃)	Humidity (%RH)	Duration (HH:MM)
1	25	50	00:30
2	25	50	00:30
3	50	30	00:50
4	50	30	04:00
5	25	50	00:50
6	25	50	00:50
7	25	90	03:30
8	25	90	01:00
9	50	90	02:46
10	50	90	06:21
11	25	90	02:46
12	25	50	04:07
13	25	50	03:30
14	25	50	00:30
15	0	0	02:30
16	0	0	10:30
17	25	50	02:30
18	25	50	00:30

Test Curve:



Sample Configuration & Quantity Under Test:

Using one AMB-551 15" LCD Panel PC.

Thermal profile data :

Point	0℃	50℃
1.Chamber air temperature	3.7	54.3
2.Inside air temperature	16.1	65.1
3.Invrter surface temperature	52.7	94.5
3.HDD surface temperature	12.2	63.7
3.CPU surface temperature	25.0	77.3

Test Result :

Passed.

The AMB-551 15" LCD Panel PC meets temperature cycle test.

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High temp/ Humidity storage test Report NO. 02P0A0002

AMB-551 (SBC-676)

Test Date: 09-20~22-2002

Test Product: AMB-551 15" LCD Panel PC.

Test Site: AAEON QA Internal Lab.

Performed By : Rex Chang

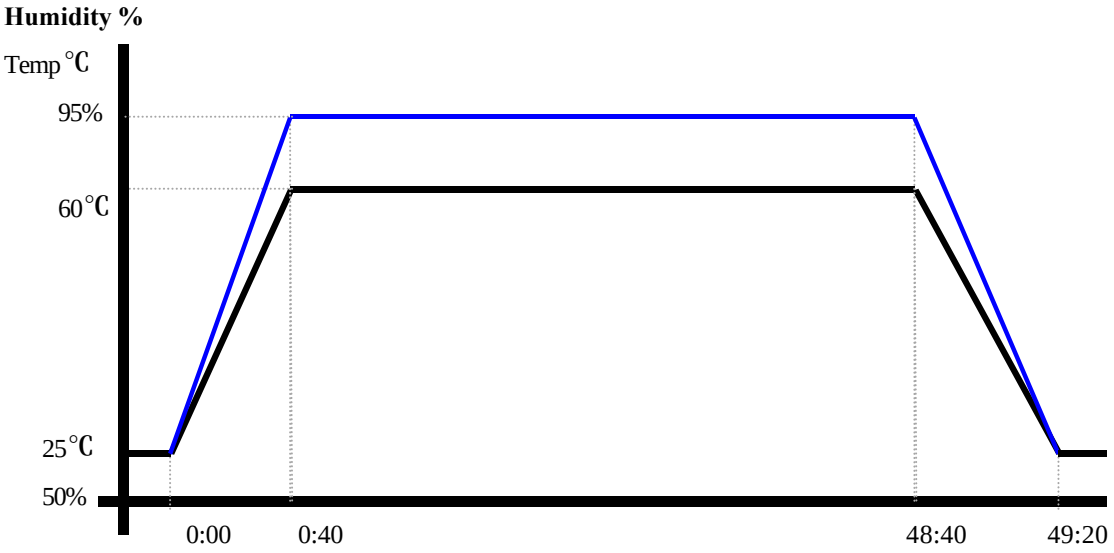
Test Standard : Reference IEC 68-2-56 Testing procedures
Test Cb : Damp Heat Steady State Test (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model : THS-D4H+-100
Date of Calibration : 06/10/01
Serial Number: 1241

Testing Item:

1. Test Temperature: 60℃
2. Test Humidity:95 %
3. Test Times: 48Hrs
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1

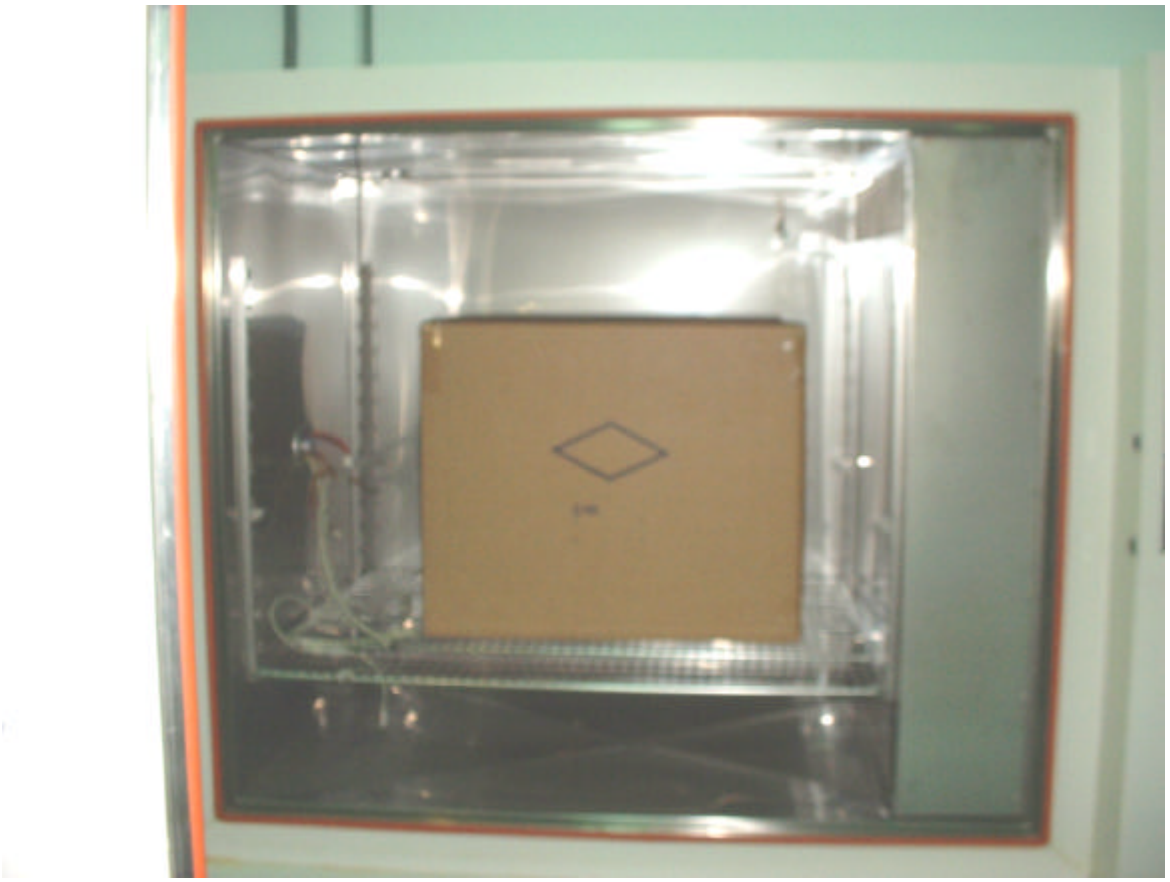
Test Result:

Passed.

The AMB-551 15" LCD Panel PC meets High Temp/Humidity storage test.

AMB-551 (SBC-676)

Photo:



AMB-551 High temp/Humidity storage test

Low temperature storage test

Report NO. 02P0A0002

AMB-551 (SBC-676)

Test Date: 09-20~22-2002

Test Product: AMB-551 15" LCD Panel PC.

Test Site: AAEON QA Internal Lab.

Performed By : Rex Chang

Test Standard : Reference IEC 68-2-1
Testing procedures Test Ab : Cold Test (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model : THS-D4H+-100
Date of Calibration : 06/10/01
Serial Number: 1241

Testing Item:

1. Test Temperature : -20℃
2. Test Times : 48Hrs
3. Test Environment Curve :

Sample Configuration & Quantity Under Test:
Quantity: 1

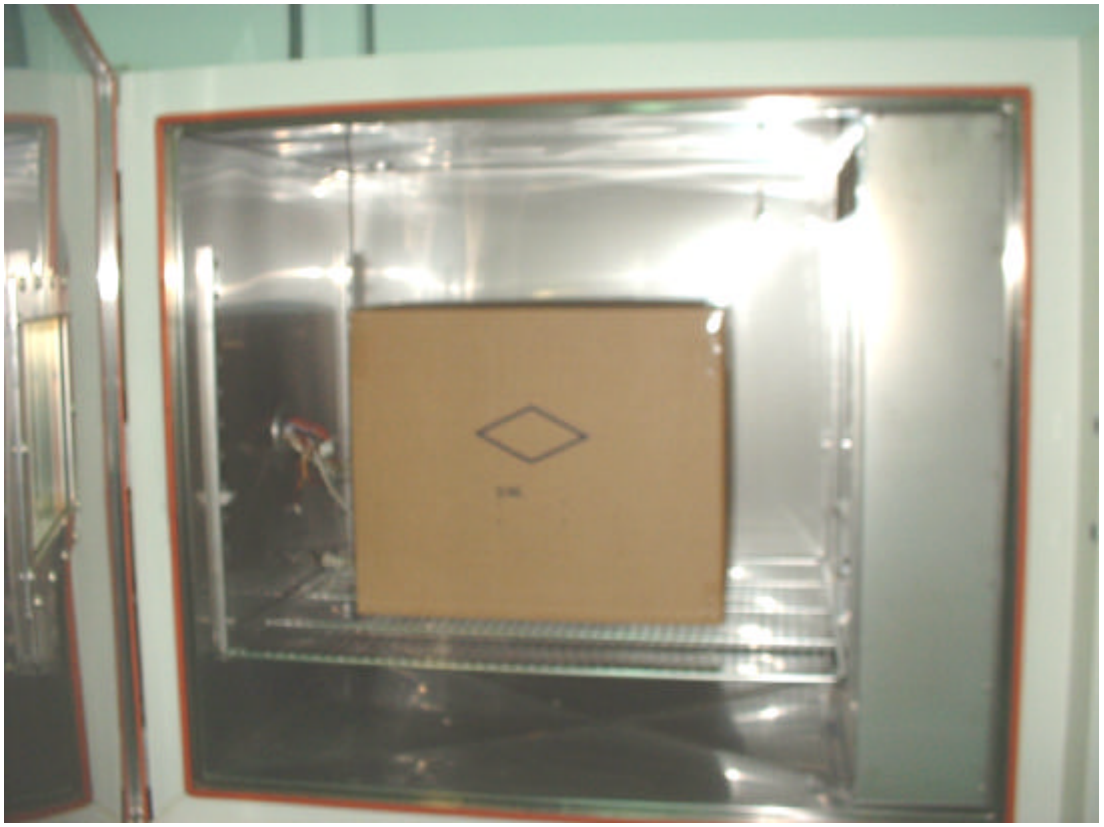
Test Result:

Passed.

The AMB-551 15" LCD Panel PC meets Low temperature storage test

AMB-551 (SBC-676)

Photo:



AMB-551 Low temperature storage test

AMB-551 (SBC-676)

Test Date: 09-17-2002

Test Product: AMB-551 15" LCD Panel PC.

Test Site: AAEON QA Internal Lab.

Performed By : Rex Chang

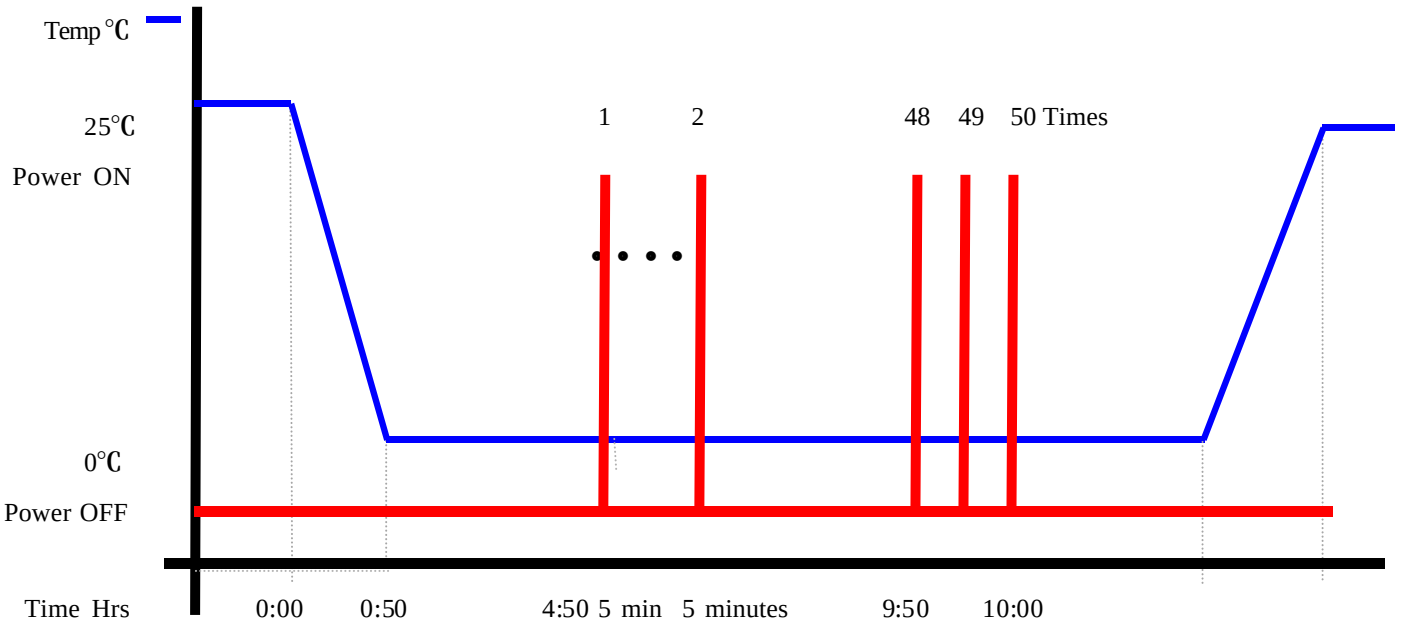
Test Standard : Reference IEC 68-2-1 Testing procedures
Test Ab : Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model : THS-D4H+-100
Date of Calibration : 06/10/01
Serial Number: 1241

Test Condition :

1. Test Temperature : 0℃
2. Test Times : 5Hrs
   Power off 4 hours before first time power on
   Power off to next power on between 10 minutes
3. Number of test : 50 times
4. Test Software : Windows 98SE
5. Test Environment Curve :



AMB-551 (SBC-676)

Sample Configuration & Quantity Under Test:

Quantity: 1

Test Result:

The AMB-551 15" LCD Panel PC:

During first test, when power is turned on at 0℃, we discovered LCD backlight lit up with intermit brightness.

During second test, when power is turned on at 0℃, LCD backlight brightness become normal.

AMB-551 (SBC-676)

Test Date: 09-27-2002

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

Test Product: AMB-551 15" LCD Panel PC.

Test Equipment

Type	MFR	Model Number	Serial Number	Last CAL.
Shock Tester	KSON	KD-9363-600FK2-50N120	KDS11054783	
Controller	DACTRON	DSC System Version 0.922	635651	
Control Accelerometer	WILCOXON RESEARCH	WR-777	4207	

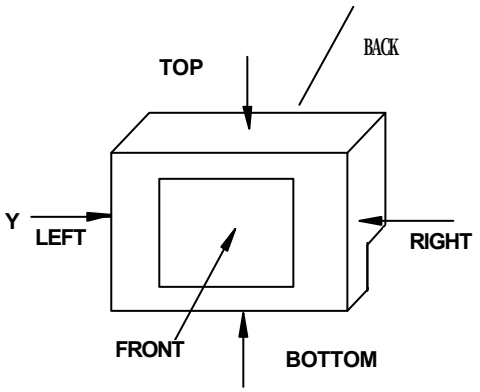
Test Specification:

Parameters	Targets
Wave Form	Half Sine wave
Acceleration	15g
Duration Time	11ms
No. of Shock	Each axis 3 times
Shock Direction	Bottom, Top, Left, Right, Front, Back axis

Test Condition

Temperature: 20 ±2℃
Humidity: 70 ±20%RH
Sample: Unpacked; Operation
Software: Windows 98 run Media Player (VCD viewing)

Axial Definition

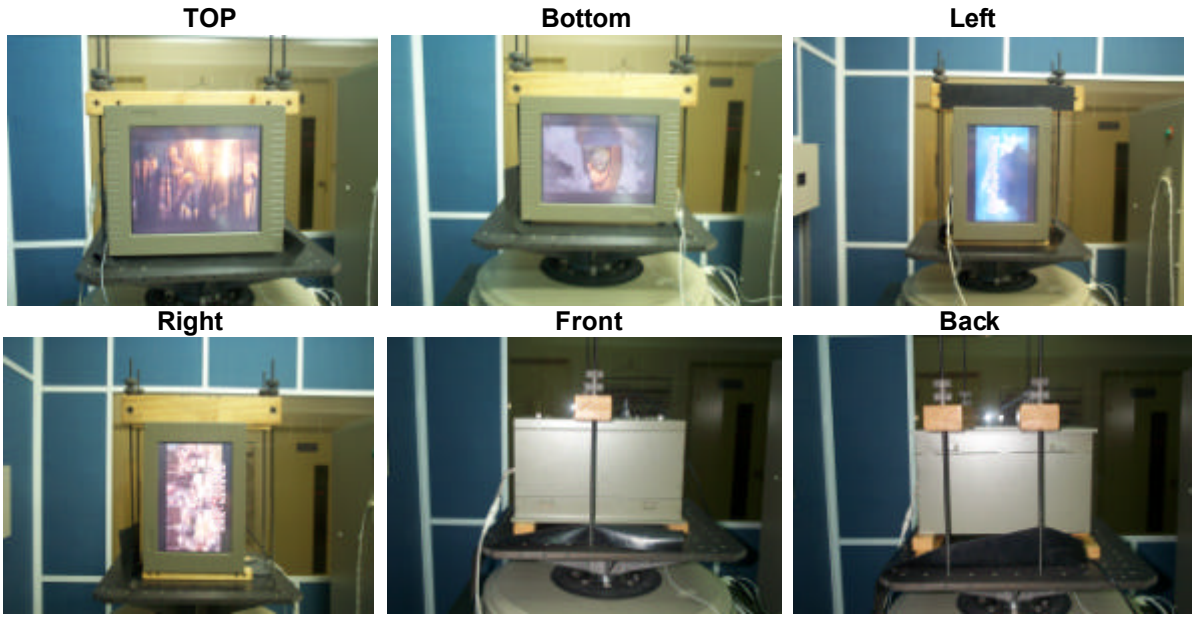


Test Result:

1. The system structure doesn't deformation; Function is OK during system test.
2. The system structure doesn't have any deformation; All functions are OK after shock test.

AMB-551 (SBC-676)

Testing Photos:



Test Curve :