AMC-263 (FSB-866G)

Environment Test Report

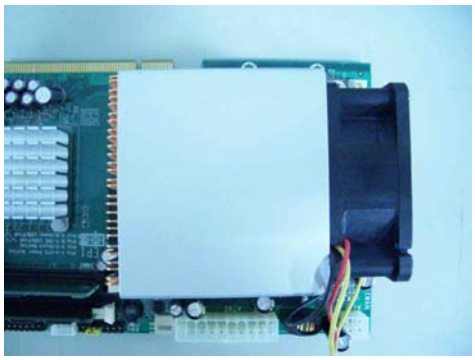
Report NO: 06I020004

Issued by:	Rex-Chang	/	*06/07/2006*
	Test Engineer		**Date**
Reviewed by:	Wenyuan Yang	/	*06/07/2006*
	Manager		**Date**

Test item list

Num	Item	Spec
1.	Control Box:	AMC- 263 / 6 Slot Wall Mount Chassis
	1. Main Board	AAEON FSB-866G Rev. A1.0 (BIOS: 1.0)
	2. CPU	Intel Pentium(R) 4 / 3.2 GHz
	3. Memory	DIMM1: 256MB Hynix HY5DU56822BT-J (DDR333) DIMM2: 128MB Hynix HY5DU561622DT-J (DDR333)
	4. Power Supply	Shen Jang 300S/1U (ATX)
	5. HDD	Maxtor DiamondMax Plus 9 / 80GB (ATA/133)
	7. FDD	TEAC FD-235HF

CPU Cooler



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Temperature cycle test

Test Date: 05-30-2006 ~ 06-02-2006

Test Product: AMC-263 (FSB-866G A1.0) / 6 Slot Wall Mount Chassis

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

Test Standard: Reference IEC68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4L+-100
Date of Calibration: 11/21/05
Serial Number: 2582

Temperature Measurement:

40 Channel Thermal Recorder:
YOKOGAWA Inc,
Model: DA100-13-1D
Date of Calibration: 12/14/05
Serial Number: 12A323190

Test Condition:

1. Test Low Temperature: 0℃ (1~4 cycles)
   -5℃ (5^{th} cycle)
2. Test High Temperature: 50℃ (1~4 cycles)
   55℃ (5^{th} cycle)
3. Test dwell time: 6Hrs
4. Temperature slope: 2℃/min
5. Test cycle: 5 cycles
6. Test Environment Curve:

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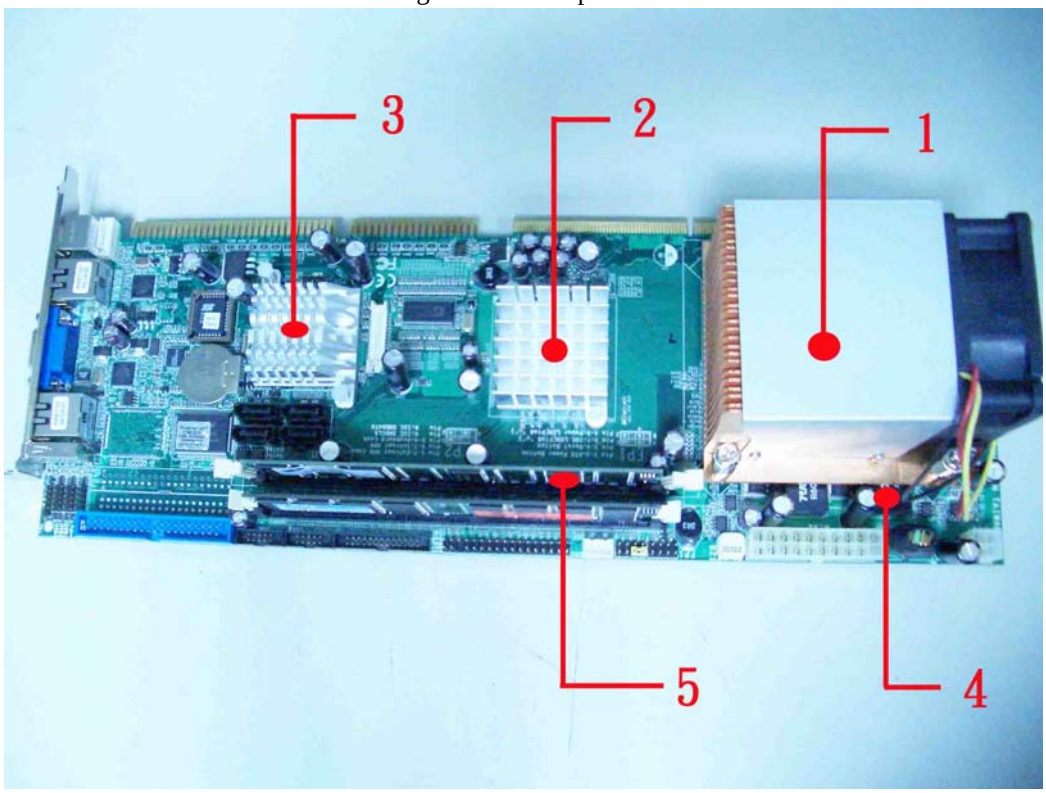
Temperature cycle test

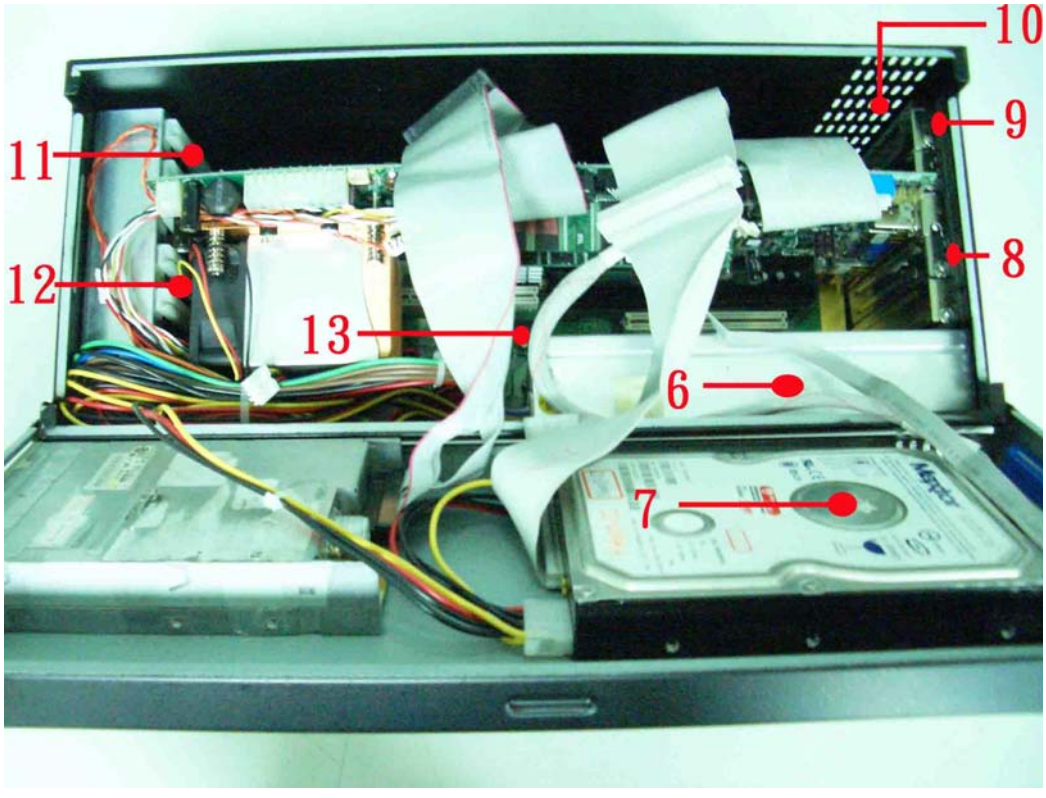
Test O.S. / Software:

Windows 2000 / Run PassMark Burn In Test Pro 4.0

Temperature Recorder:

Measuring Thermal Couple Position：





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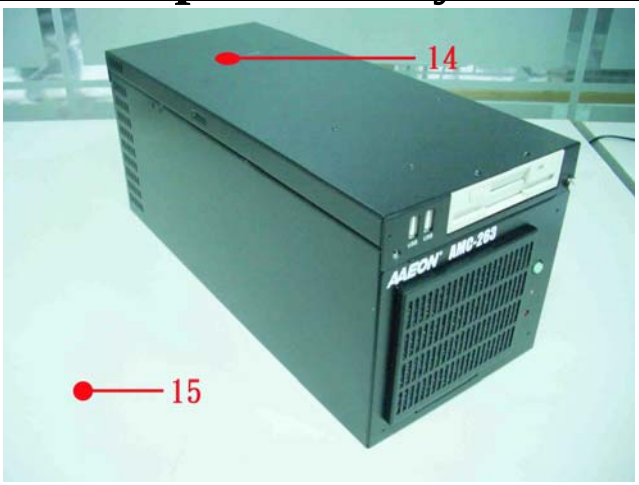
Temperature cycle test



Thermal profile data:

AMC-263 (FSB-866G A1.0) / 6 Slot Wall Mount Chassis

Point / Temp. Stage(℃)	Spec	55	50	25	0	-5
1. CPU Surface	70.8	79.6	74.6	49.6	24.6	19.6
2. U22 - INTEL.NG82915GV-SL8BT Heat Sink Surface	99	84.5	79.5	54.5	29.5	24.5
3. U23 - INTEL.FW82801FB SL7Y5 Heat Sink Surface	95	76.7	71.7	46.7	21.7	16.7
4. L10 - (TF)COIL.0.6uH.DIP Wire Size 1.1*2mm.2wire 35.TRIO.PSG-1410-R60M1	85	102.8	97.8	72.8	47.8	42.8
5. Memory	70	72.0	67.0	42.0	17.0	12.0
6. Power Supply Surface	50	69.8	64.8	39.8	14.8	9.8
7. HDD Surface	55	69.1	64.1	39.1	14.1	9.1
8. Control Box Inside Air Temperature - 1	N/A	67.8	62.8	37.8	12.8	7.8
9. Control Box Inside Air Temperature - 2	N/A	63.3	58.3	33.3	8.3	3.3
10. Control Box Inside Air Temperature -3	N/A	66.6	61.6	36.6	11.6	6.6
11. Control Box Inside Air Temperature -4	N/A	60.7	55.7	30.7	5.7	0.7
12. Control Box Inside Air Temperature -5	N/A	62.5	57.5	32.5	7.5	2.5
13. Control Box Inside Air Temperature -6	N/A	65.1	60.1	35.1	10.1	5.1
14. Control Box External Surface	N/A	63.6	58.6	33.6	8.6	3.6
15. Chamber Air Temperature	N/A	54.9	49.9	24.9	-0.1	-5.1

1. Tm (Measured operation temperature) must less than Tc (Specified case temperature) + 5 degree C.
2. Any Tm value showed in red words which meaning the value over the Tc + 5 degree C of this device specification.

Sample Configuration & Quantity Under Test:

Quantity: 1 (AMC-263 / 6 Slot Wall Mount Chassis)

Test Result:

No problem was found during the temperature operation cycle test. But there have three location temperature are over spec. and the detail information as below.

1. L10 (TF.COIL.0.6uH.DIP Wire Size 1.1*2mm.2wire 35.TRIO.PSG-1410-R60M1).
2. Power Supply
3. HDD

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High temperature operation test

Test Date: 05-13~15-2006

Test Product: AMC-263 (FSB-866G A1.0) / 6 Slot Wall Mount Chassis

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bd: Dry Heat Test (Operation)

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4L+-100
Date of Calibration: 11/21/05
Serial Number: 2582

Testing Item:

1. Test Temperature: 50℃
2. Test Times: 48Hrs
3. Test Software: Windows XP / Run PassMark Burn In Test Pro 4.0
4. Test Environment Curve:

Sample Configuration & Quantity Under Test:
Quantity: 1 (AMC-263 / 6 Slot Wall Mount Chassis)

Test Result:
No problem was found during the high temperature operation test.

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Cold Start test

Test Date: 05-05~06-2006

Test Product: AMC-263 (FSB-866G A1.0) / 6 Slot Wall Mount Chassis

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

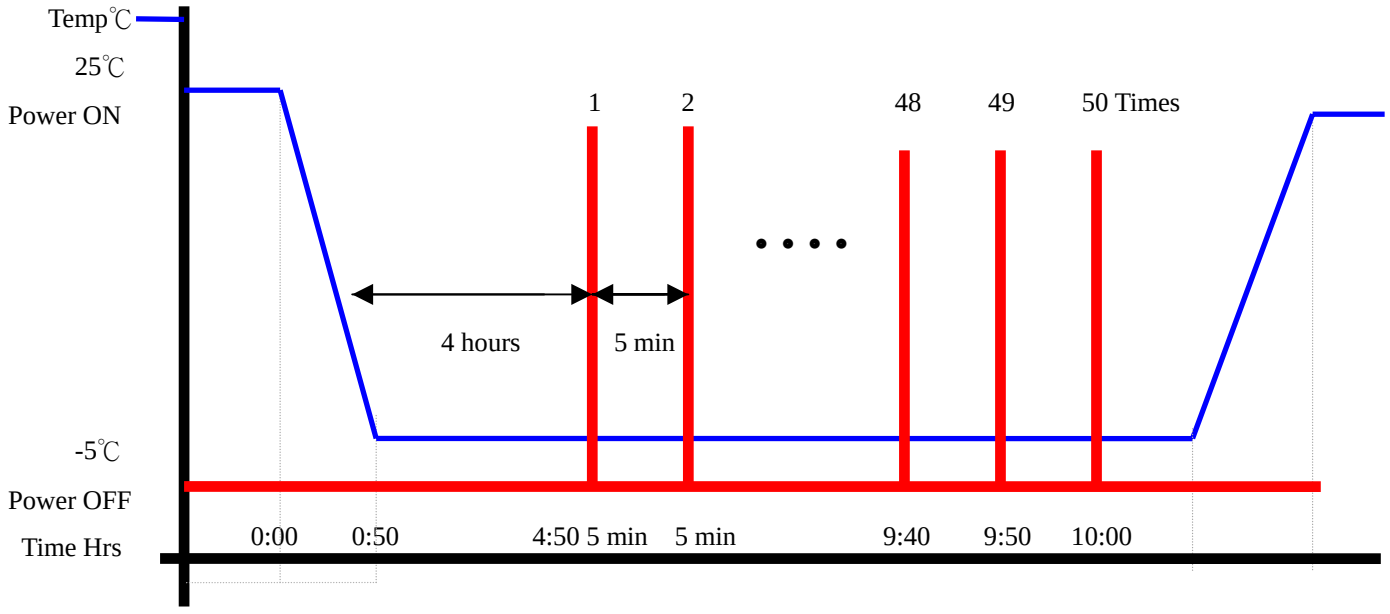
Test Standard: Reference IEC 68-2-1 Testing procedures
Test Ab: Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4L+-100
Date of Calibration: 11/21/05
Serial Number: 2582

Test Condition:

1. Test Temperature: -5℃
2. Test Times: 5 Hours or 50 times of ON/OFF
   (1) Power off for 4 hours before 1'st power on. Then once complete boot, power off immediately.
   (2) After 5 min later power on again and wait until booting is completed.
   (3) Repeat (2) for around 4:50
   (4) Power off then wait for 5 min before final power on operation.
3. Number of test: 50 times
4. Test Software: Windows XP (Simplified Chinese)
5. Test Environment Curve:



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Cold Start test

Sample Configuration & Quantity Under Test:

Quantity: 1 (AMC-263 / 6 Slot Wall Mount Chassis)

Test Result:

Passed.

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High temperature storage test

Test Date: 06-02~05-2006

Test Product: AMC-263 (FSB-866G A1.0) / 6 Slot Wall Mount Chassis

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

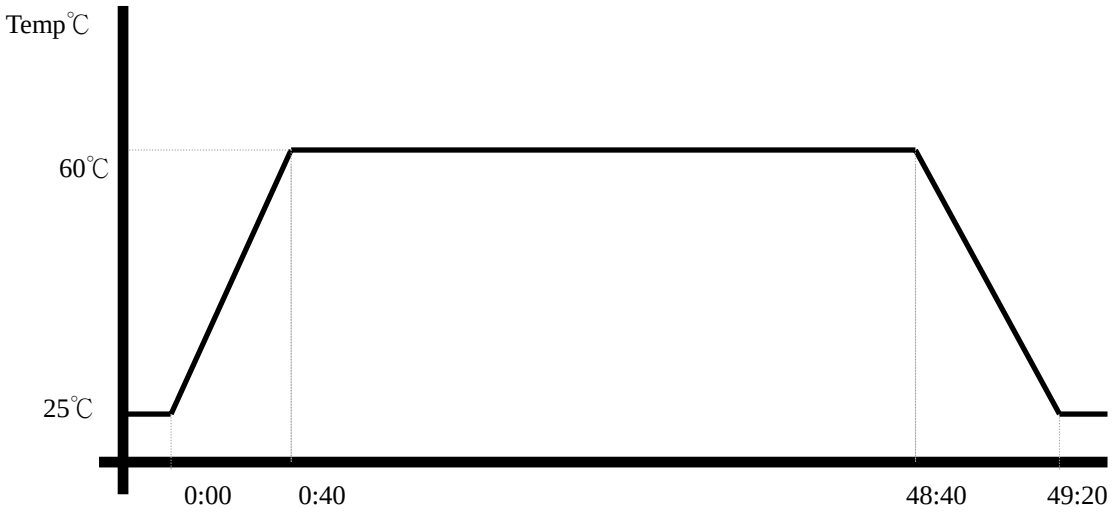
Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bb: Dry Heat Test (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4L+-100
Date of Calibration: 11/21/05
Serial Number: 2582

Testing Item:

1. Test Temperature: 60℃
2. Test Times: 48Hrs
3. Test Environment Curve:



Sample Configuration & Quantity Under Test:
Quantity: 1 (AMC-263 / 6 Slot Wall Mount Chassis)

Test Result:
No problem was found after the high temperature storage test.

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High temperature storage test

Test Date: 05-27~29-2006

Test Product: AMC-263 / 6 Slot Wall Mount Chassis

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bb: Dry Heat Test (Non-operation)

Test Equipment:

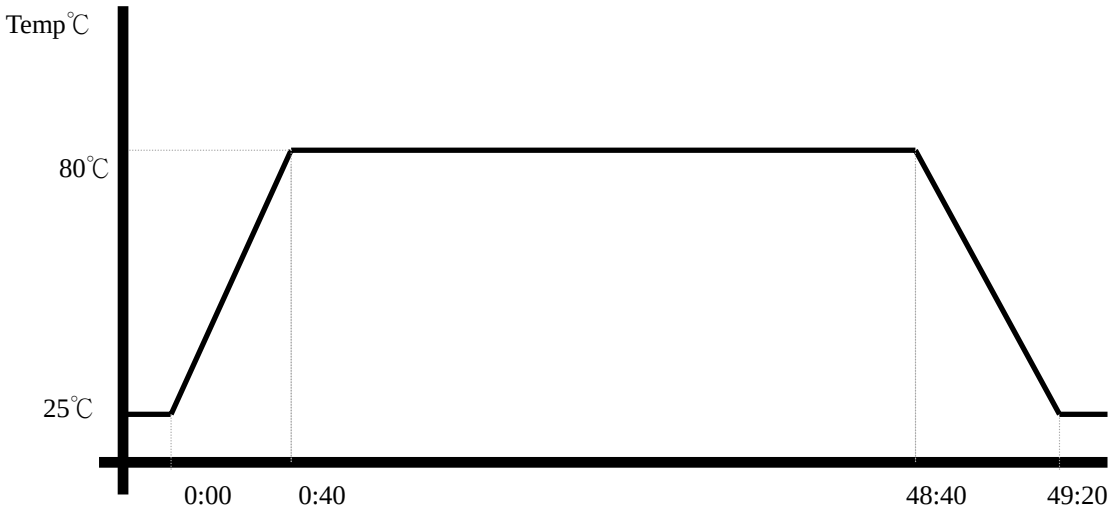
K.SON. INS. TECH. CORP.

Model: THS-D4H+-100

Date of Calibration: 05/19/06
Serial Number: 1241

Testing Item:

1. Test Temperature: 80℃
2. Test Times: 48Hrs
3. Test Environment Curve:



Sample Configuration & Quantity Under Test:
Quantity: 1 (AMC-263 / 6 Slot Wall Mount Chassis)

Test Result:
No problem was found after the high temperature storage test.

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Low temperature storage test

Test Date: 05-25~27-2006

Test Product: AMC-263 (FSB-866G A1.0) / 6 Slot Wall Mount Chassis

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: 05/19/06
Serial Number: 1241

Testing Item:

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

Sample Configuration & Quantity Under Test:

Quantity: 1 (AMC-263 / 6 Slot Wall Mount Chassis)

Test Result:

No problem was found after the low temperature storage test.

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Humidity test

Test Date: 05-22~25-2006

Test Product: AMC-263 (FSB-866G A1.0) / 6 Slot Wall Mount Chassis

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

Test Standard: Reference IEC 68-2-3 Testing procedures
Test Ca: Damp heat, steady state (Non-operation)

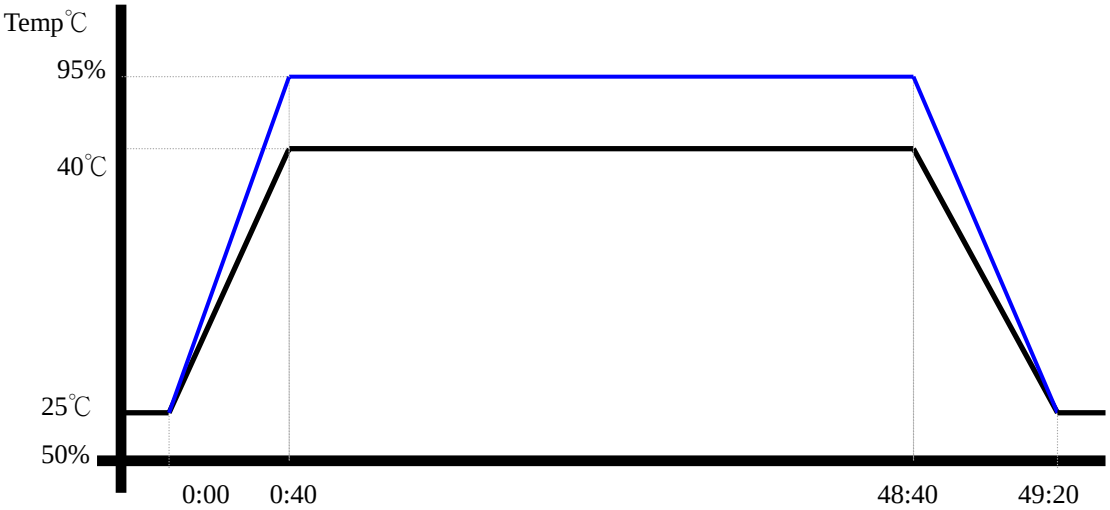
Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 05/19/06
Serial Number: 1241

Testing Item:

1. Test Temperature: 40℃
2. Test Humidity: 95%RH
3. Test Times: 48Hrs
4. Test Environment Curve:

Humidity %



Sample Configuration & Quantity Under Test:
Quantity: 1 (AMC-263 / 6 Slot Wall Mount Chassis)

Test Result:

No problem was found after the humidity storage test.

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