Onyx-215

Environment Test Report

Report NO: 06P020003

Issued by:	Ryan Cheng	/	*01/16/2006*
	Test Engineer		**Date**
Reviewed by:	Wenyuan Yang	/	*01/16/2006*
	Manager		**Date**

Test item list

Num	Item	Spec
1.	**Low Noise Medical Station**:	Onyx-215
	1.LCD	LCD.15".CPT.CLAA150XP03.Ver1.0-040206.4LAMP
	2.Power Adapter	EDAC EA1050A-120
	3. Inverter	INVERTER Cable.6P 2.00mm.5P 2.00mm.30cm
	4. A/D Board	BT-R08LDNQ REV:05
	5. USB Transfer Board	T040 REV:A02
	6. USB Board	1907YC0301 REV:A1.0
	7. CD-ROM Transfer Board	1907T04101 REV:A0.2
	8. Smart card Board	MR0103
	9. Card Reader Board	GS-2004-CR18801 V1.1
	10. CD-ROM	TEAC DW-224E
2.	**Test System**	AEC-6900 (PCM-6892 B1.0 / 256MB / BIOS:0.2)



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Temperature cycle test

Test Date: 01-13~16-2006

Test Product: Onyx-215

Test Site: AAEON QA Internal Lab.

Performed By: Ryan Cheng

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

Test Equipment:

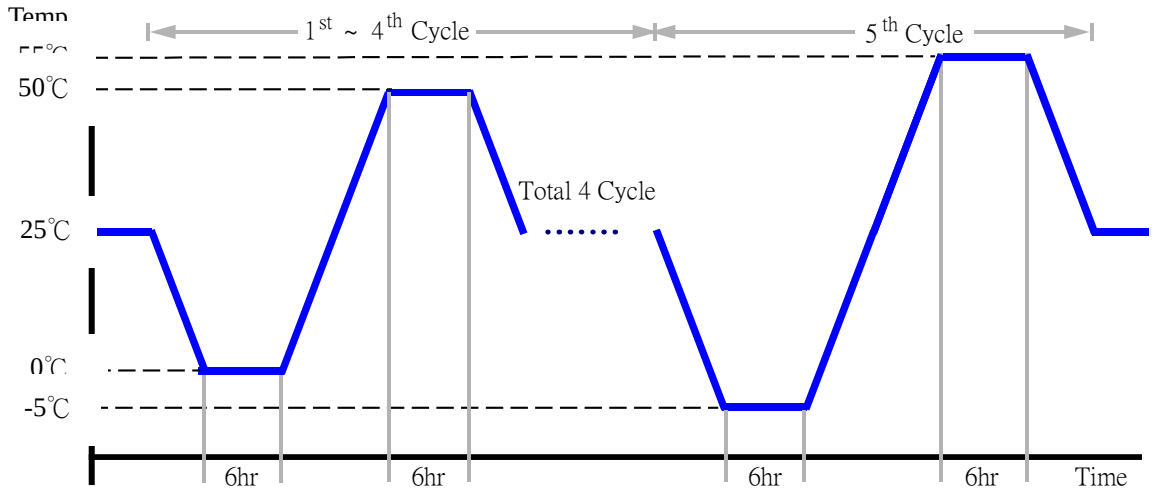
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4L+-100
Date of Calibration: 11/21/05
Serial Number: 2582

Temperature Measurement:

20 Channel Thermal Recorder:
YOKOGAWA Inc,
Model: DA100-13-1D
Date of Calibration: 12/25/04
Serial Number: 12A323190

Test Condition:

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

Thermal profile data:

Onyx-215

Point / Temp. Stage(℃)	Spec	55	50	25	0	-5
1. BT-R08LDNQ REV:05 - U401	100	90.2	85.2	60.2	35.2	30.2
2. BT-R08LDNQ REV:05 - U1002	100	82	77	52	27	22
3. BT-R08LDNQ REV:05 - U1000	100	101.4	96.4	71.4	46.4	41.4
4. BT-R08LDNQ REV:05 - AP1117 -U1004	125	88.9	83.9	58.9	33.9	28.9
5. T040 REV:A02 - L6	115	79	74	49	24	19
6. T040 REV:A02 - U8	115	78.2	73.2	48.2	23.2	18.2
7. T040 REV:A02 - U7	155	71.3	66.3	41.3	16.3	11.3
8. T040 REV:A02 - U10	115	69.1	64.1	39.1	14.1	9.1
9. T040 REV:A02 - U9	100	69.9	64.9	39.9	14.9	9.9
10. T040 REV:A02 - U4	105	73.8	68.8	43.8	18.8	13.8
11. T040 REV:A02 - U3	105	75.3	70.3	45.3	20.3	15.3
12. T040 REV:A02 - U5	100	72.8	67.8	42.8	17.8	12.8
13. T040 REV:A02 - U6	100	71.7	66.7	41.7	16.7	11.7
14. Inverter - Q2	150	102.5	97.5	72.5	47.5	42.5
15. Inverter - Q4	150	91.8	86.8	61.8	36.8	31.8
16. Inverter - Q6	150	85.9	80.9	55.9	30.9	25.9
17. Inverter - T2	200	84.7	79.7	54.7	29.7	24.7
18. Inverter - Q7	150	88.5	83.5	58.5	33.5	28.5
19. Inverter - Q8	150	88.5	83.5	58.5	33.5	28.5
20. Inverter - IC1	85	84.8	79.8	54.8	29.8	24.8
21. Inverter - SX14	125	86.3	81.3	56.3	31.3	26.3
22. Chamber Air Temperature	N/A	55.2	50.2	25.2	0.2	-4.8

Note: The description in red states which temperature is over the specification of the device.

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Temperature cycle test

Sample Configuration & Quantity Under Test:

Quantity: 1 (Onyx-215)

Test Result:

No problem was found during the temperature cycle test.

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High temperature storage test

Test Date: 01-10~12-2006

Test Product: Onyx-215

Test Site: AAEON QA Internal Lab.

Performed By: Ryan Cheng

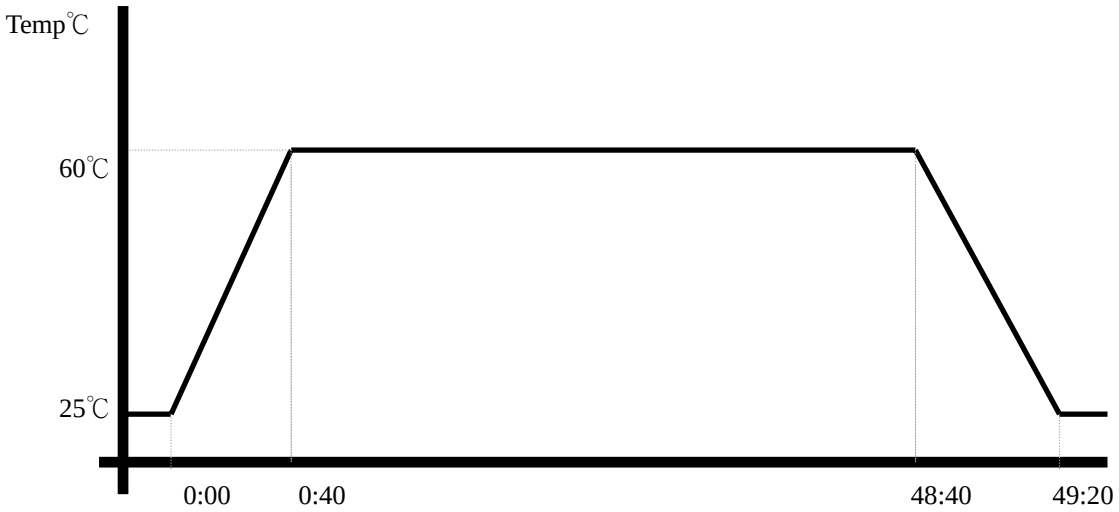
Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bb: Dry Heat Test (Non-operation)

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 Software: Windows 2000 / Run PassMark Burn In Test Pro 4.0
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:
Quantity: 1 (Onyx-215)

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

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Low temperature storage test

Test Date: 01-06~09-2006

Test Product: Onyx-215

Test Site: AAEON QA Internal Lab.

Performed By: Ryan Cheng

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: 10/01/04
Serial Number: 2582

Testing Item:

1. Test Temperature: -20℃
2. Test Times: 48Hrs
3. Test Software: Windows 2000 / Run PassMark Burn In Test Pro 4.0
4. Test Environment Curve:

Sample Configuration & Quantity Under Test:
Quantity: 1 (Onyx-215)

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

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Humidity test

Test Date: 01-03~05-2006

Test Product: Onyx-215

Test Site: AAEON QA Internal Lab.

Performed By: Ryan Cheng

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

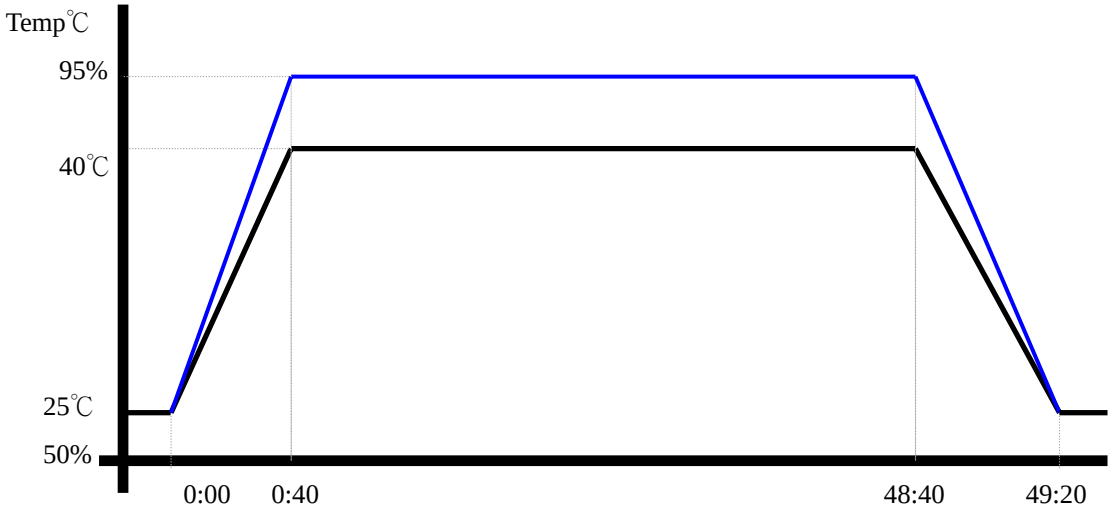
Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 10/01/04
Serial Number: 2582

Testing Item:

1. Test Temperature: 40℃
2. Test Humidity: 95%RH
3. Test Times: 48Hrs
4. Test Software: Windows 2000 / Run PassMark Burn In Test Pro 4.0
5. Test Environment Curve:

Humidity %



Sample Configuration & Quantity Under Test:
Quantity: 1 (Onyx-215)

Test Result:

No problem was found after the humidity test.

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Cold Start test

Test Date: 01-02~03-2006

Test Product: Onyx-215

Test Site: AAEON QA Internal Lab.

Performed By: Ryan Cheng

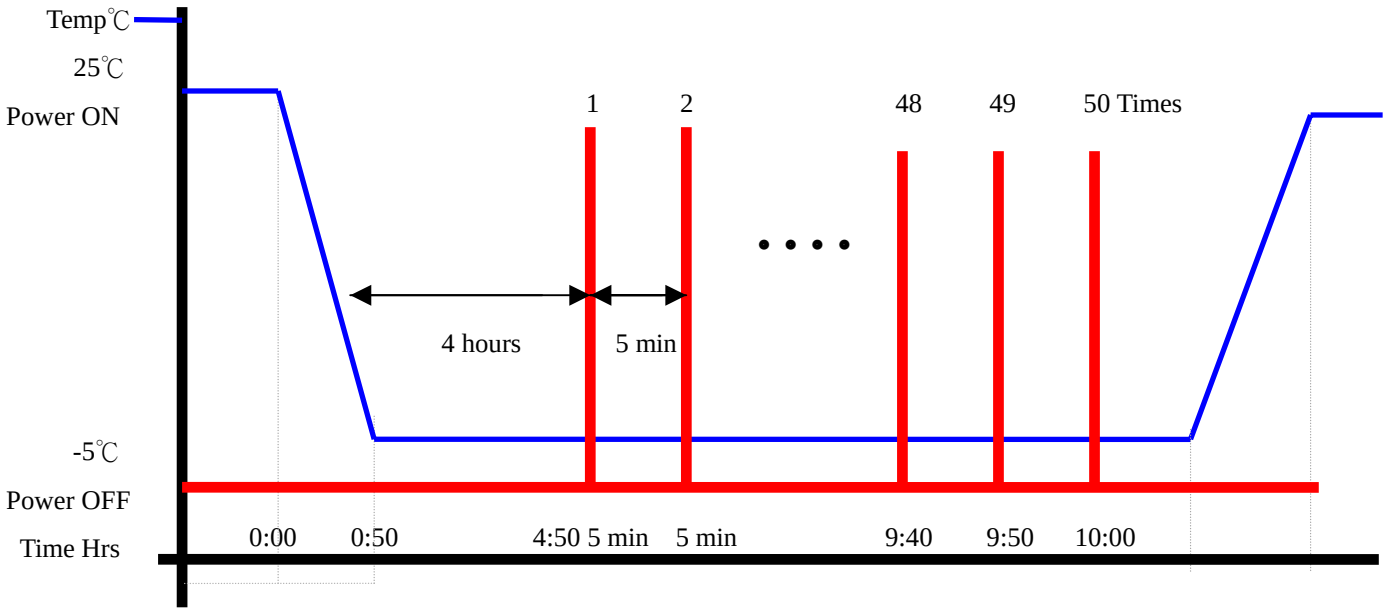
Test Standard: Reference IEC 68-2-1 Testing procedures
Test Ab: Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 10/01/04
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 after 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 2000
5. Test Environment Curve:



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Cold Start test

Sample Configuration & Quantity Under Test:

Quantity: 1 (Onyx-215)

Test Result:

No problem was found during the cold start test.

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