OMNI-3175-BT
Environment Test Report

Report NO: 16P020006

Summary	
	☑ **Pass** .
	☐ **Fail**
	☐ **Pass with Deviation**
	Comment:_____

Issue date	QE Manager	Test Engineer
2016-05-04	**KJ Wang**	**Rex Chang**

Test item list

Testing Result

Num	Test item list	Result	Remark
1	Temperature cycle operation test	Pass	
2	High temperature storage test	Pass	
3	Low temperature storage test	Pass	
4	Humidity test	Pass	
5	Cold start and hot start test	Pass	

Configuration of EUT

Num	Item	Spec
OMNI-3175-BT		
1	17'' TFT LCD	AUO.G170EG01 V1''1280*1024.18&24 Bits 1ch lvds
2	CPU Board	PBA-BT03 Ver. B0.1
3	CPU	Intel® Celeron® Processor J1900 / 2.0GHz
4	BIOS	OMNI SERIES R0.2 (OMBTAM02)(03/03/2016)
5	Wide Temp. Memory	MEMPHIS 8GB / DDR3L 1600 / IM IM4G08D3F ABG-125ITW
6	USB Flash	Transcend 8GB (For DOS Mode Power On/Off Test Only)
7	Wide Temp. 2.5'' SATA HDD	TOSHIBA MQ01AAD010C / 100GB
8	Wide Temp. CFast	Innodisk 3ME Series 16GB / DECFA-16GD07SW2DC-26
9	Test Software	Windows 8 / Run PassMark Burn In Test 8.1 Pro From HDD
10	Adapter	FSP FSP084-DIBAN2

Photos

Heat Sink	HDD Kit
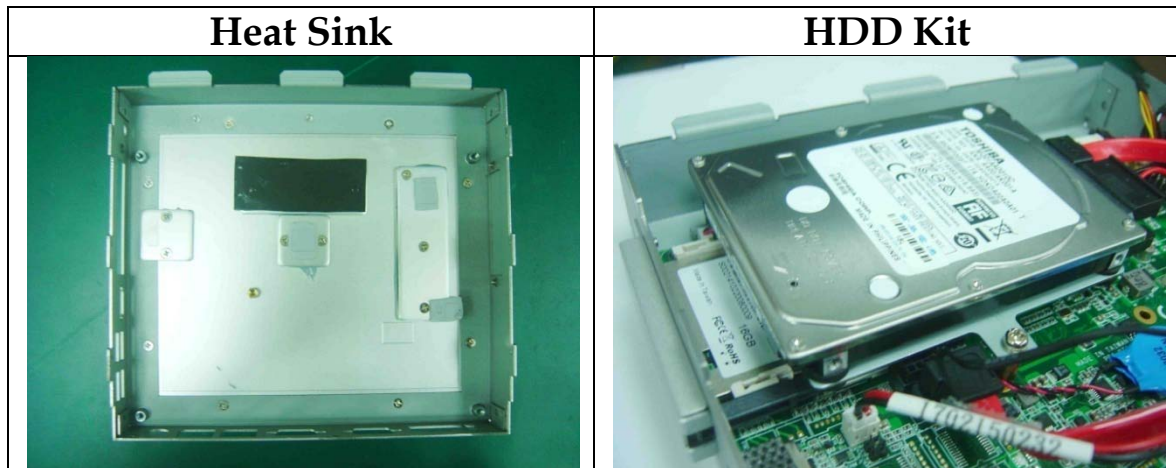
Temperature cycle test

Test Date: 04-27 ~ 29-2016

Test Product: OMNI-3175-BT
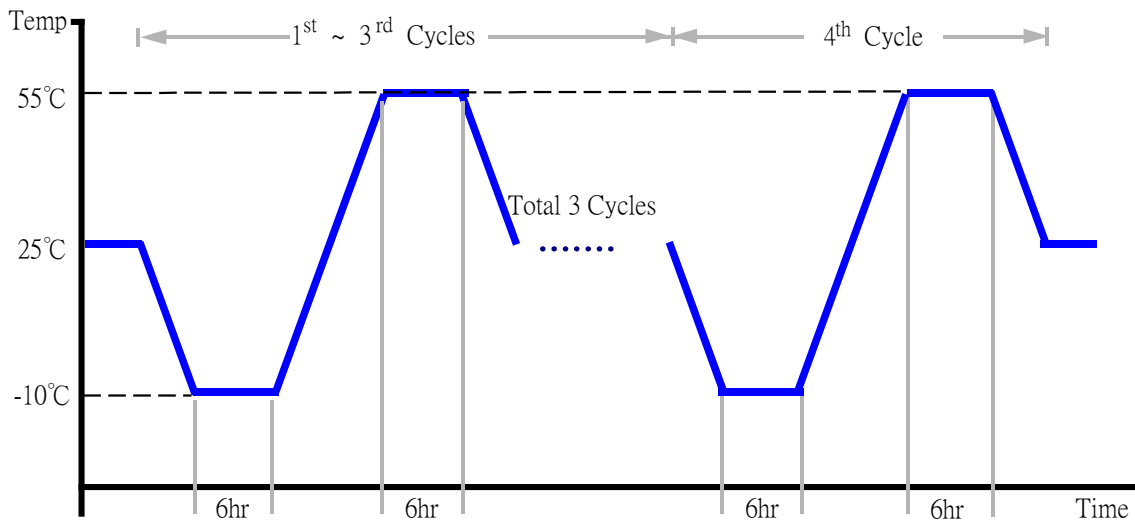
Test Site: AAEON QE Dept.

Test Standard: Refer to IEC68-2-14 Testing procedures

Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-D7TS-100+LN2

Date of Calibration: 09/10/15
Due date of Calibration: 09/09/16
Serial Number: A0004

Test Condition:

1. Test Low Temperature: -10℃

2. Test High Temperature: 55℃

3. Test dwell time: 6Hrs

4. Temperature slope: 2℃/min

5. Test cycle: 4 cycles

6. Test Software: Windows 8 / Run PassMark Burn In Test 8.1 Pro

7. Test Environment Curve:

Sample Configuration & Quantity Under Test:

Quantity: 1 (OMNI-3175-BT)

Test Result:

No issues were found during the temperature operation cycle test.

High temperature storage test

Test Date: 04-25 ~ 27-2016

Test Product: OMNI-3175-BT

Test Site: AAEON QE Dept.

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

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
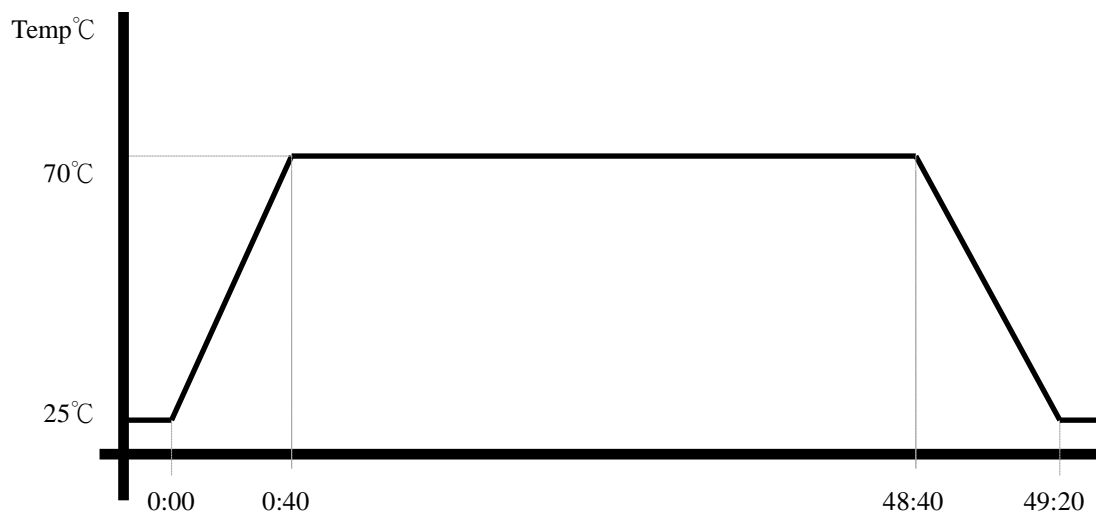Model: THS-D7TS-100+LN2
Date of Calibration: 09/10/15
Due date of Calibration: 09/09/16
Serial Number: A0004

Testing Item:

1. Test Temperature: 70℃

2. Test Times: 48Hrs

3. Test Environment Curve:

Sample Configuration & Quantity Under Test:
Quantity: 1 (OMNI-3175-BT)

Test Result:

No issue was found after the high temperature storage test.

Low temperature storage test

Test Date: 04-20 ~ 22-2016

 Test Product: OMNI-3175-BT

Test Site: AAEON QE Dept.

Test Standard: Refer to 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-D7TS-100+LN2
        Date of Calibration: 09/10/15
        Due date of Calibration: 09/09/16
        Serial Number: A0004

Testing Item:

    1. Test Temperature: -20℃

    2. Test Times: 48Hrs

    3. Test Environment Curve:

Sample Configuration & Quantity Under Test:
    Quantity: 1 (OMNI-3175-BT)

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

Humidity test

Test Date: 04-22 ~ 25-2016

Test Product: OMNI-3175-BT

Test Site: AAEON QE Dept.

Test Standard: Refer to 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.)
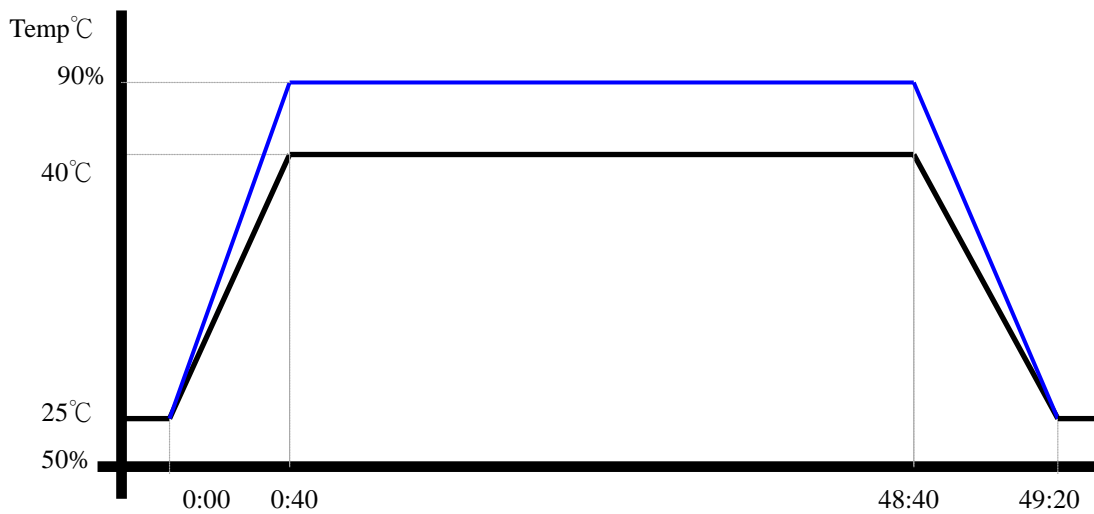Model: THS-D7TS-100+LN2

Date of Calibration: 09/10/15
Due date of Calibration: 09/09/16
Serial Number: A0004

Testing Item:

1. Test Temperature: 40℃

2. Test Humidity: 90%RH

3. Test Times: 48Hrs

4. Test Environment Curve:

Humidity %

Sample Configuration & Quantity Under Test:
        Quantity: 1 (OMNI-3175-BT)

Test Result:
        No issue was found after the humidity storage test.

Cold start and hot start test

Test Date: 05-02~ 03-2016

Test Product: OMNI-3175-BT
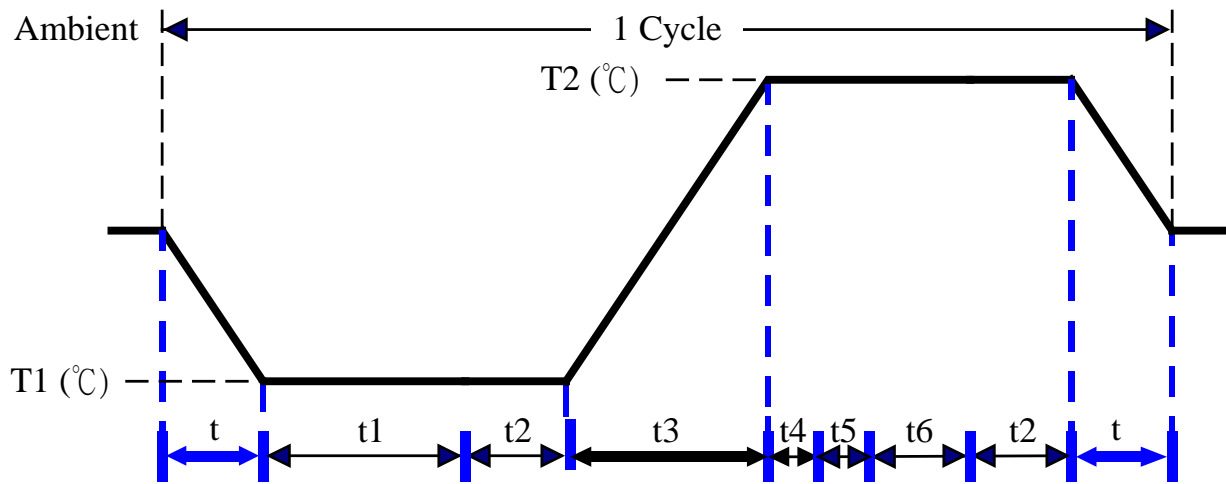
Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-14 Testing procedures

                Test N: Change of temperature Test

Test Equipment:

      Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)

      Model: THS-D7TS-100+LN2

      Date of Calibration: 09/10/15

      Due date of Calibration: 09/09/16

      Serial Number: A0004

Test Condition:

Parameters	Description
T1	-10℃
T2	55℃
t1	4 hrs
t2, t6	2 hrs
t4, t5	1hrs
t, t3	2℃/min
n (Cycle)	1

t = temprature slope
t , t1, t6: Power Off
t2: Power on/off test 10 times (on 2 min / off 5min)
t3, t4: Run PassMark Burn In Test
 t5: Win 8 Software restart test 2 times
Test Software:Windows 8

Test Result:

      a.   No issues were found during the cold start test.

      b.   No issues were found during the hot start test.