

<b>Shuttle®</b>  浩鑫股份有限公司	<b>Acoustic test report</b>	<b>Model name</b>	SH67H3
		<b>Design phase</b>	B phase
		<b>Release Date:</b>	2010/12/10

**SH67H3**

**Acoustic Test Report**

**Design Phase Version: B**

**Date: 2010/12/10**

**Shuttle- Thermal Department**

<b>Approved by:</b>	<b>Checked by:</b>	<b>Prepared by:</b>
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## 1. Samples Configuration:

<b>Configuration:</b>	<b>Brand/Frequency/Capacity/Description</b>
<b>P/N</b>	B phase sample
<b>Main Board Version</b>	FH67 VB0
<b>BIOS/EC Version</b>	B.01
<b>CPU</b>	Intel Corei5® (SNB)2400 3.1GHz (TDP95W)
<b>Memory</b>	3 Pcs of ADATA 2GB DDR3(PC1333&6G)
<b>VGA</b>	UMA (Intel Graphic HD)
<b>VRAM</b>	N/A
<b>HDD</b>	WD 3.5" SATA 500G & HITACHI 3.5" SATA 320G
<b>W-LAN</b>	N/A
<b>Power supply</b>	PC61J (300W)

## 2. Test Equipment:

2-1 Semi-Anechoic Chamber: Acoustic testing for system sound quality shall be testing in a qualified Semi-anechoic chamber meeting the requirements of ISO-3744.

2-2 Microphone: Follow ISO-3744

2-3 Fan power is provided by power supply. Testing sound pressure every Fan control PWM duty between 0%~100% or higher to determine fan RPM.

## 3. Test Condition

3-1 Environment Temperature: 23+-2degC

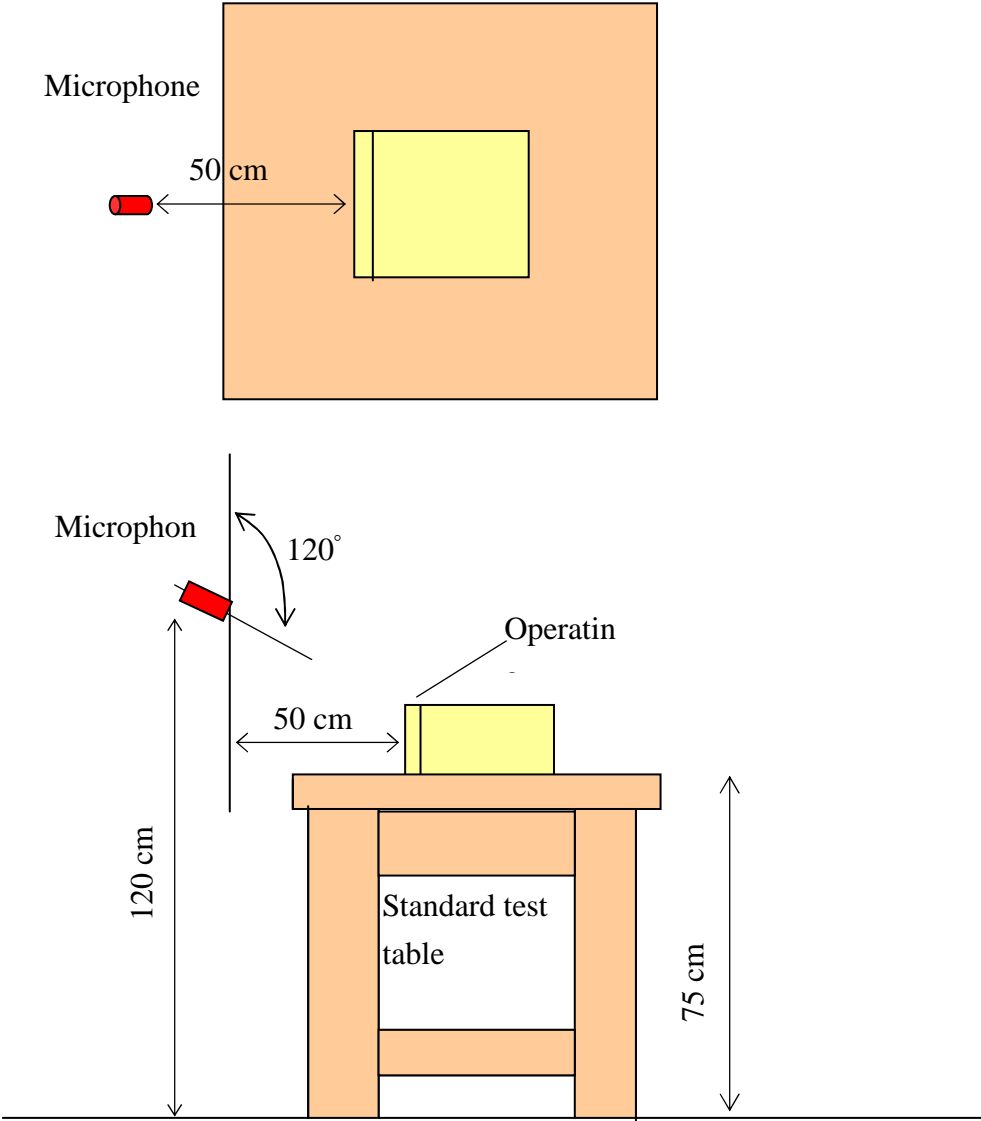
## 4. Test Standard Reference

4-1 Sound pressure standard: follow ISO7779-chapter 8.6.3-C

4-2 It is 50cm away from test machine for four edges.

4-3 Show as below picture.

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4-4.For B phase test, we determine the fan RPM to meet Shuttle acoustic SPEC in front side sound pressure (Idle&3DMark200x<=28 dBA).

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## 5. Acoustic test report

### a. Sound pressure (System 50cm)

#### 9225 system Fan

Semi-Anechoic Chamber		AVC				
		Front (dBA)	Right (dBA)	Rear (dBA)	Left (dBA)	Fan RPM
ADDA	Background	16.9	17.2	16.7	17.6	N/A
	3DMark06	27.2	27.8	30.0	29.5	1326
	Idle	26.6	28.3	29.1	29.3	1180
	UL	26.2	28.3	29.9	29.5	1020
	Low	29.7	33.0	35.2	31.8	1621
	Mid	35.8	39.0	40.4	37.4	2660
	Full	46.4	48.9	49.6	47.5	3900

## 6. Conclusion:

### 1. SH67H3 For sound pressure:

System Idle @ 26.6<=28 dBA(spec).

3DMark200x @ 27.2<=28 dBA(spec).

### 2. SH67H3 for sound pressure, all of acoustic result under spec.