

Shuttle® 浩鑫股份有限公司	Acoustic test report	<i>Model name</i>	<i>SX58H7 Pro</i>
		<i>Design phase</i>	<i>B Phase</i>
		<i>Release Date:</i>	<i>2010/12/10</i>

SX58H7 Pro

Acoustic Test Report

Design Phase Version: B

Date: 2010/12/10

Shuttle- Thermal Department

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

Configuration:	Brand/Frequency/Capacity/Description
P/N	B phase sample
Main Board Version	FX58 PRO VB0
BIOS/EC Version	B01
CPU	Intel® Bloomfield i7 940 2.93Ghz (TDP 130W)
Memory	3 Pcs of GS-SKILL 6GB DDR3(PC1333)
VGA	Asus 8500GT(Without Fan)
HDD	Seagate SATA 320G&HITACHI 160G 3.5” SATA
W-LAN	N/a
ADAPTER	PC71(500W)

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

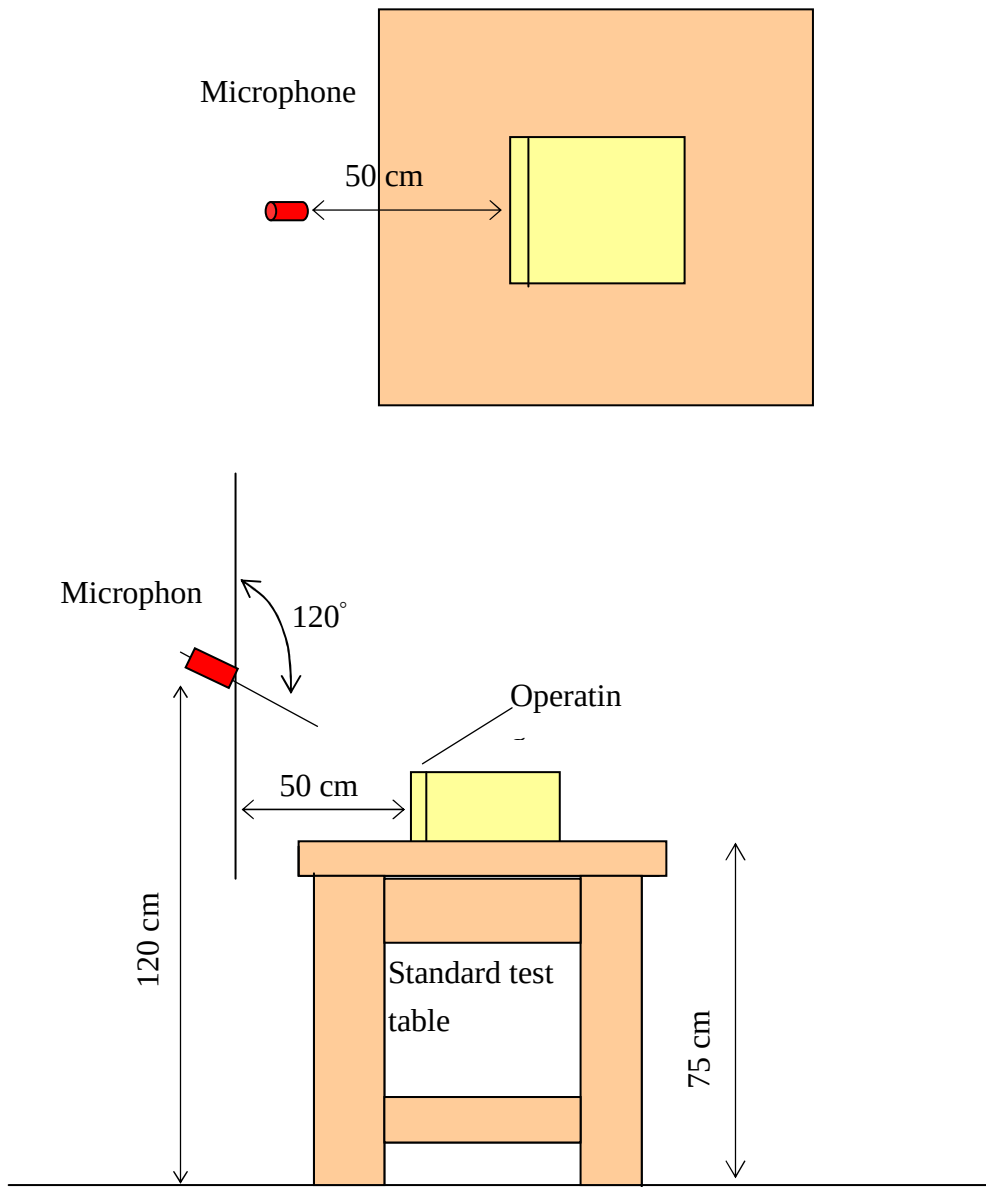
4. Test Standard Reference

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

4-2 It is 50cm away from test machine for the front side.

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 Fan System Fan

Semi-Anechoic Chamber		AVC				
		Front (dBA)	Right (dBA)	Rear (dBA)	Left (dBA)	Fan RPM
ADDA	Background	16.8	16.5	17.2	16.2	N/A
	3DMark06	27.4	28.9	29.3	28.2	1254RPM
	Idle	26.8	28.4	29.1	28.8	1048RPM
	UL	28.6	30.2	31.1	29.2	1329RPM
	Low	34.7	36.3	38.1	36.0	1931RPM
	Mid	41.2	43.6	45.8	43.8	2646RPM
	Full	47.8	49.0	51.4	50.2	3971RPM

6. Conclusion:

1. SX58H7 Pro for sound pressure:

System Idle @26.8<= 28 dBA(spec).

3DMark200x @ 27.4<=28 dBA(spec).

2. SX58H7 Pro for sound pressure, all of acoustic result under spec.