



Test Report

No. 2000389/IEQ

Date : Mar 03 2005

Page 1 of 3

SGS Job No. : 1673746

Report on laboratory testing of Total Volatile Organic Compounds (TVOC) and Total Bacteria Count (TBC) for product Air Cleaner-Clock NM-113 at a Controlled Room of SGS on 15 December 2004 and 19 February 2005 respectively.

1. Introduction

The area of controlled room is approximately 9m² Outdoor interferences were eliminated (including EMF and ventilation system) by a fan for internal ventilation only.

1.1 Total Bacteria Count (TBC)

The sampling for Total Bacteria Count (TBC) were performed by the SGS using SAS Super 100 Air Sampler (Model No.: 02-CM-01475) whereas other equipment for sampling and the laboratory testing were conducted by SGS. The details were described in the following sections. The Control Room was locked and no external ventilation provided during testing period (24hr) after setting up the product inside the room.


1.2 Total Volatile Organic Compounds (TVOC)

The sampling for Total Volatile Organic Compounds (TVOC) were performed by the SGS using ppb RAE TVOC Monitor. The details were described in the following sections. The Control Room was locked and no external ventilation provided during testing period (24hr) after setting up the product inside the room. Background level of TVOC in control room was deducted from final measurement and presented as net background value.

2. Sample Identification and Test Requested / 3. Sample and Analysis Methodology / 4. Results

Please refer to the following page(s).

Signed for and on behalf of
SGS Hong Kong Ltd.


JESSICA LEUNG
SECTION MANAGER

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H11650809



Test Report

No. 2000389/IEQ

Date : Mar 03 2005

Page 2 of 3

2. Sample Identification and Test Requested

SGS Sample No.	Sample Description	Date & Time of Commencing Sampling	Test Requested
0987	Before	19 February 2005 1000	TBC
0832	20 minutes after operation	19 February 2005 1020	TBC
0831	40 minutes after operation	19 February 2005 1040	TBC
0986	120 minutes after operation	19 February 2005 1200	TBC
A0412049	Before	15 December 2004 1041	TVOC
A0412050	60 minutes after operation	15 December 2004 1141	TVOC

Sampling : Conducted by SGS

Sampling address : SGS Control Room 801 for TBC, SGS Control Room 501 for TVOC
reported by SGS

Sample receiving : For TBC analysis, all agar plates were received by SGS on 19 February 2005 and they were kept cool in an ice box.
For TVOC analysis, real time measurement on 15 December 2004.

3. Sampling and Analysis Methodology

3.1 Total Bacteria Count

3.1.1 Sampling

Sampling was conducted by SGS using SAS Super 100 Air Sampler (Model No.: 02-CM-01475) whereas other equipment for sampling was provided by SGS. The equipment provided was as follows :

- (a) Agar medium (55mm petri dish)
APHA plate count agar for total bacteria count
- (b) Alcohol for sterilizing purpose
- (c) An ice box

3.1.2 Analytical Method

The agar was incubated at 37 degree Celsius for 48 hours.

3.1.3 Testing periods for laboratory analysis

19 - 21 February 2005 for samples collected on 19 February 2005

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H11650808



Test Report

No. 2000389/IEQ

Date : Mar 03 2005

Page 3 of 3

3. Sampling and Analysis Methodology (Continued)

3.2 Total Volatile Organic Compound (TVOC)

3.2.1 Sampling

Sampling was conducted by SGS using ppb RAE TVOC Monitor.

3.2.2 Analytical Method

Real time measurement in Control Room.

3.2.3 Testing periods for laboratory analysis

15 - 20 December 2004

4. Results

Total Bacteria Count

SGS Sample No.	Sampling Location	Date & Time of Commencing Sampling	TBC (cfu/m ³)	TVOC (Net Background) (ppb)
0987	Before	19 February 2005 1000	110	--
0832	20 minutes after operation	19 February 2005 1020	28	--
0831	40 minutes after operation	19 February 2005 1040	6	--
0986	120 minutes after operation	19 February 2005 1200	4	--
A0412049	Before	15 December 2004 1041	--	440
A0412050	60 minutes after operation	15 December 2004 1141	--	430

- Note : 1. cfu - colony forming unit
2. Volume of air sampled for each sample of TBC analysis was 300L for sample 0987 and 500L for 0832, 0831 and 0986
3. 1 ppb of TVOC = 1.8 µg/m³ of TVOC

*** End of Report ***

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H11650807