



**TEST REPORT**

NUMBER: TWNH00010932

APPLICANT: GEOVISION INC.  
9F, NO. 246, SEC. 1, NEIHU RD.,  
NEIHU DISTRICT, TAIPEI CITY,  
TAIWAN, R.O.C.

DATE: SEP 10, 2008

**SAMPLE DESCRIPTION:**

TWO (2) UNITS OF SUBMITTED SAMPLES SAID TO BE :

ITEM NAME : GVLX-4C2

ITEM NO. : -

QUANTITY : 2 UNITS

DATE SAMPLE RECEIVED : SEP 05, 2008

DATE TEST STARTED : SEP 05, 2008

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**TESTS CONDUCTED:**

AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGES.

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**CONCLUSION:**

TEST SAMPLE  
SUBMITTED SAMPLE

STANDARD  
VIBRATION TEST  
— WITH REFERENCE TO  
IEC60068-2-34 TEST Fd

RESULT  
SEE TEST  
CONDUCTED

HUMIDITY TEST  
— WITH REFERENCE TO  
IEC 60068-2-3 TESTS Ca

SEE TEST  
CONDUCTED

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AUTHORIZED BY:  
ON BEHALF OF INTERTEK TESTING SERVICES  
TAIWAN LIMITED



PAUL YU  
DIRECTOR

TESTS CONDUCTED

**1. VIBRATION TEST**

**TESTED SAMPLE:** SAMPLE 1

**TEST EQUIPMENT:**

EQUIPMENT : VIBRATION SHAKER  
 MANUFACTURER : SHINKEN  
 MODEL NUMBER : G-0220N  
 DATE OF CALIBRATION : JAN. 02, 2008

**LABORATORY AMBIANCE CONDITION:**

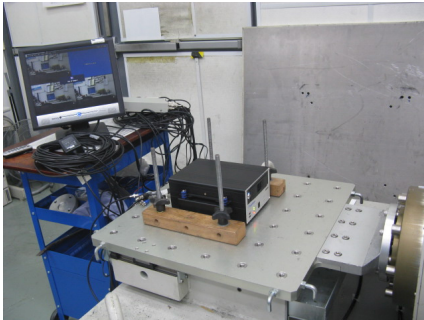
TEMPERATURE: 18 ~ 28 °C  
 HUMIDITY : 20 ~ 80 %RH

**REFERENCE DOCUMENT:**

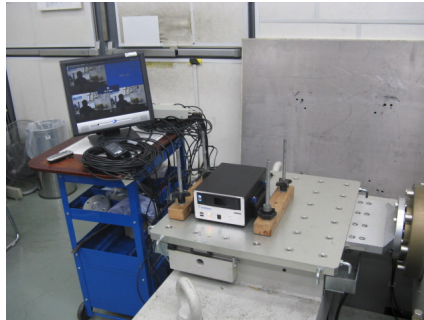
THE TEST WAS PERFORMED WITH REFERENCE TO IEC60068-2-34 TEST Fd

**PERIPHERAL SETUP DIAGRAM:**

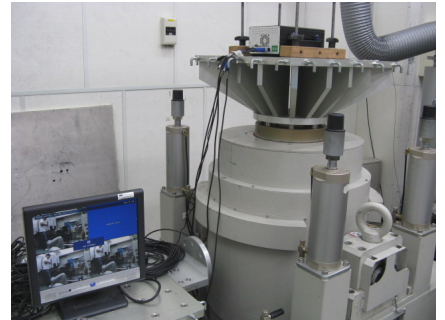
- SAMPLE SIZE : 1 UNIT
- SETUP PHOTO:



X AXIS



Y AXIS



Z AXIS

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## TESTS CONDUCTED

**1. VIBRATION TEST****TEST CONDITION:****TEST 1**

- PULSE SHAPE: RANDOM WAVE
- OPERATING (INPUT ELECTRICAL POWER TO OPERATE DURING THE TEST)
- FREQUENCY RANGE: 5 Hz TO 500 Hz
- ACCELERATION: 0.5 GRMS
- DURATION: 30 MINUTE/AXIS
- DIRECTION: X, Y AND Z AXES

**TEST 2**

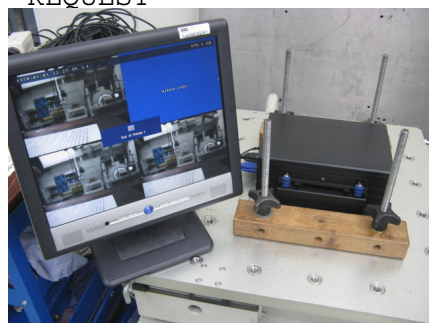
- PULSE SHAPE: RANDOM WAVE
- OPERATING (INPUT ELECTRICAL POWER TO OPERATE DURING THE TEST)
- FREQUENCY RANGE: 5 Hz TO 500 Hz
- ACCELERATION: 1.0 GRMS
- DURATION: 30 MINUTE/AXIS
- DIRECTION: X, Y AND Z AXES

**TEST PROCEDURE:**

- CHECK THE SAMPLE'S APPEARANCE BEFORE THE TEST.
- INSTALL THE SAMPLE ON TESTING TABLE AND SET UP TESTING CONDITION.
- AFTER TESTING, TAKE OFF SAMPLE FROM TABLE PUTTING IN THE STORAGE AREA.
- OBSERVE THE SAMPLE AND RECORD FOR ANY VISIBLE CHANGE AFTER TESTING.

**SUMMARY:**

- NO VISIBLE DAMAGE WAS FOUND AFTER THE TEST.
- FUNCTIONAL ELECTRICAL TEST IS PERFORMED BY THE APPLICANT PER APPLICANT'S REQUEST



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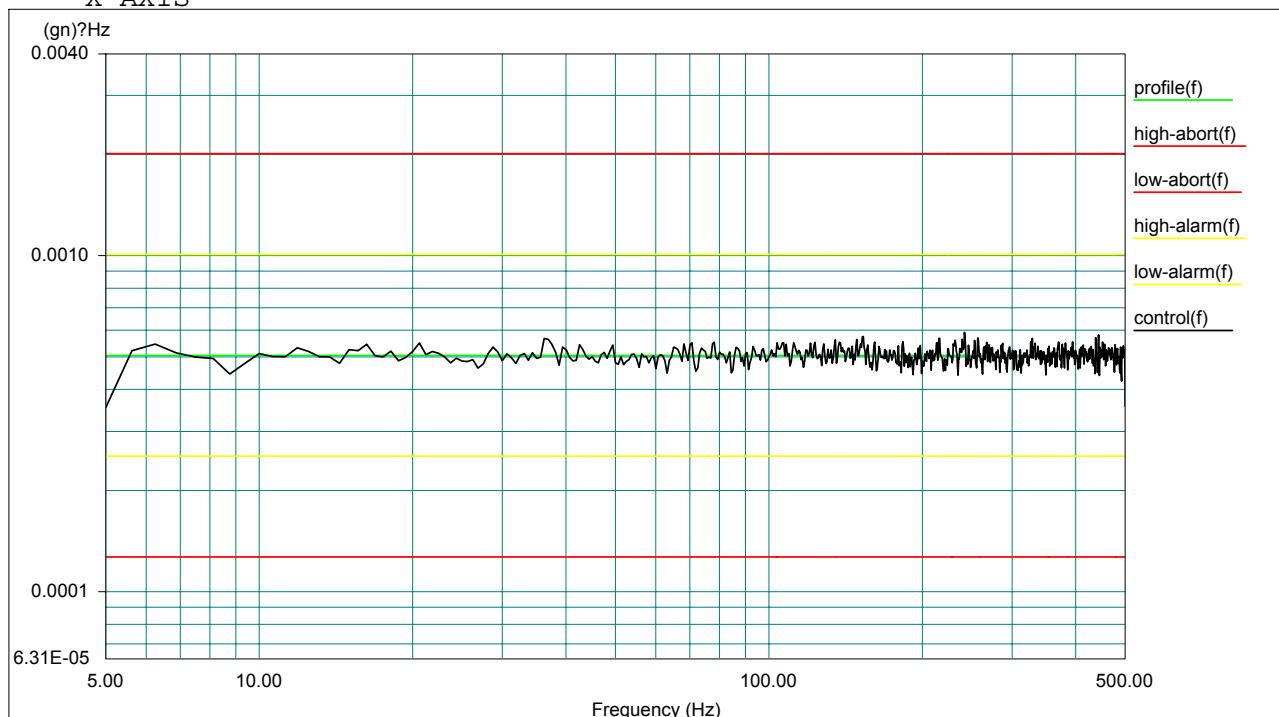
## TESTS CONDUCTED

1. VIBRATION TEST

-TEST PROFILE:

TEST 1

X AXIS



Level:100 %

Control RMS:0.502567 gn

Full Level Elapsed Time:00:30:00

Lines:800

Frame Time:1.600000 Seconds

Demand RMS:0.500186 gn

Remaining Time: 00:00:00

DOF:300

dF:0.625000 Hz

Data saved at 04:29:55 PM, Friday, September 05, 2008

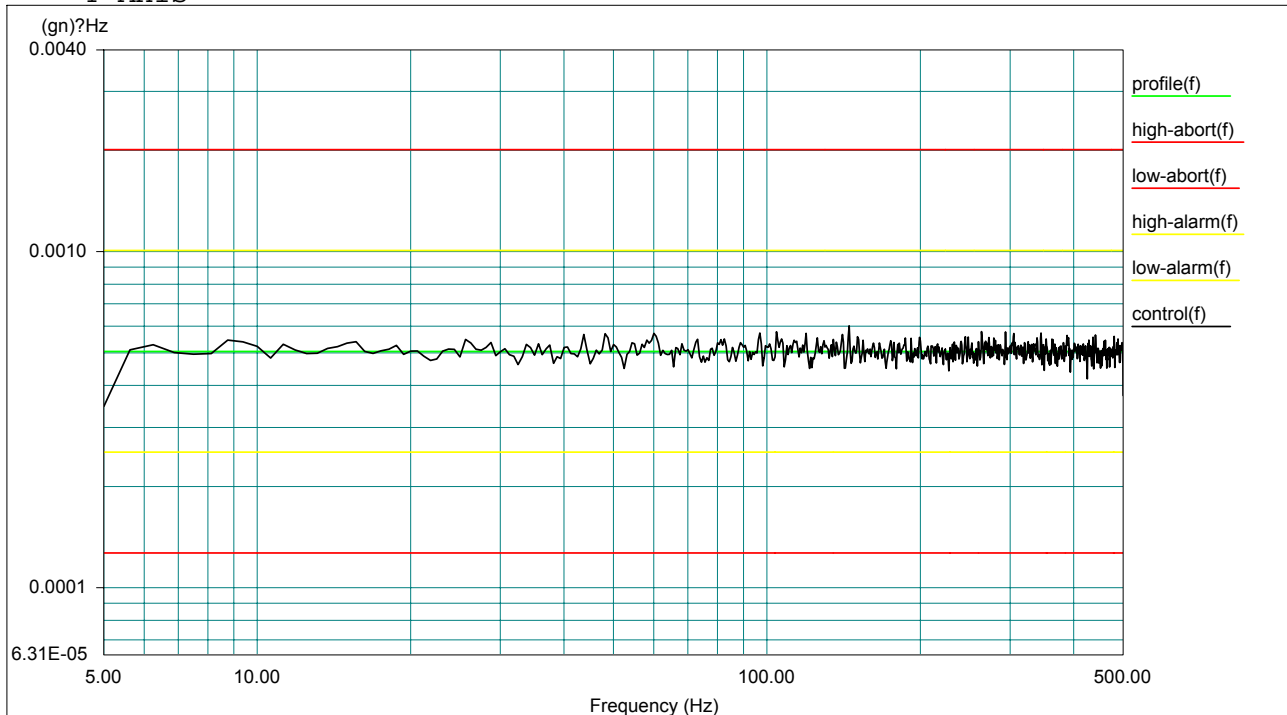
Report created at 04:29:56 PM, Friday, September 5, 2008

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TESTS CONDUCTED

**1. VIBRATION TEST**

-TEST PROFILE:  
TEST 1  
Y AXIS



Level:100 %  
Control RMS:0.503786 gn  
Full Level Elapsed Time:00:30:00  
Lines: 800  
Frame Time: 1.600000 Seconds  
Demand RMS: 0.500186 gn  
Remaining Time: 00:00:00  
DOF:300  
dF:0.625000 Hz

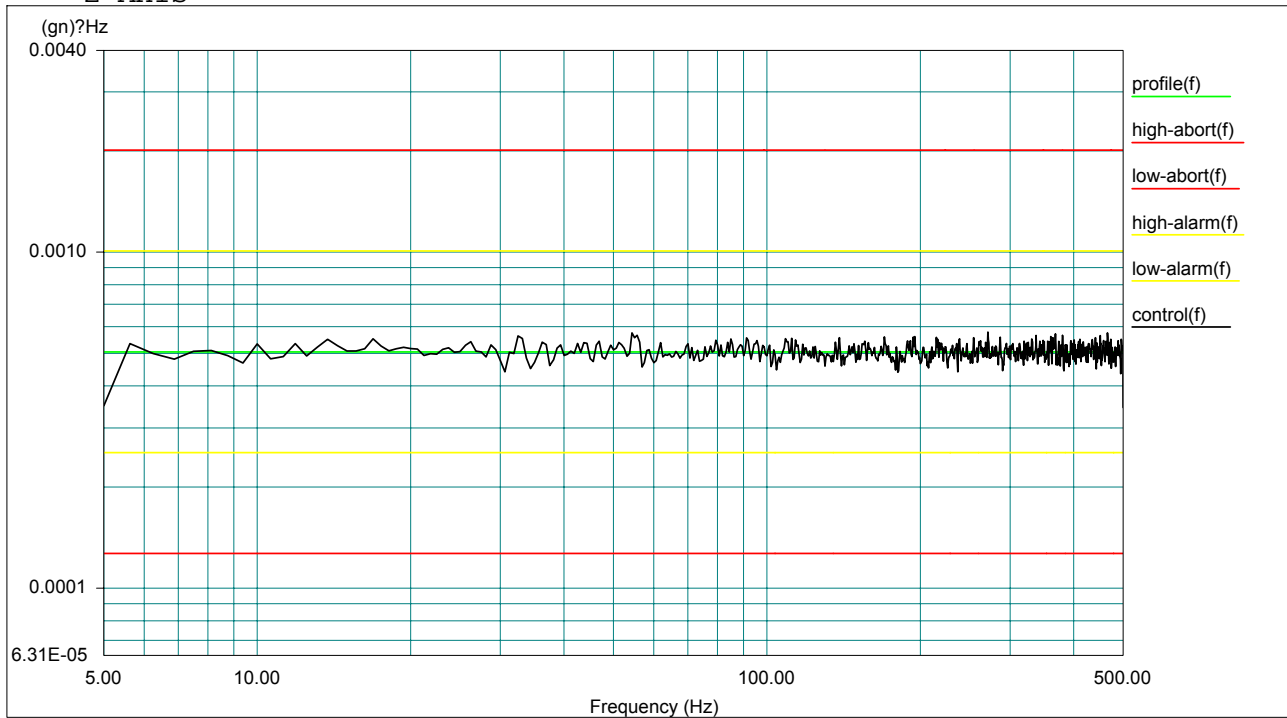
Data saved at 05:03:50 PM, Friday, September 05, 2008  
Report created at 05:03:51 PM, Friday, September 5, 2008

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TESTS CONDUCTED

**1. VIBRATION TEST**

-TEST PROFILE:  
TEST 1  
Z AXIS



Level:100 %  
Control RMS:0.514159 gn  
Full Level Elapsed Time:00:30:00  
Lines:800  
Frame Time:1.600000 Seconds  
Demand RMS:0.500186 gn  
Remaining Time: 00:00:00  
DOF:300  
dF:0.625000 Hz

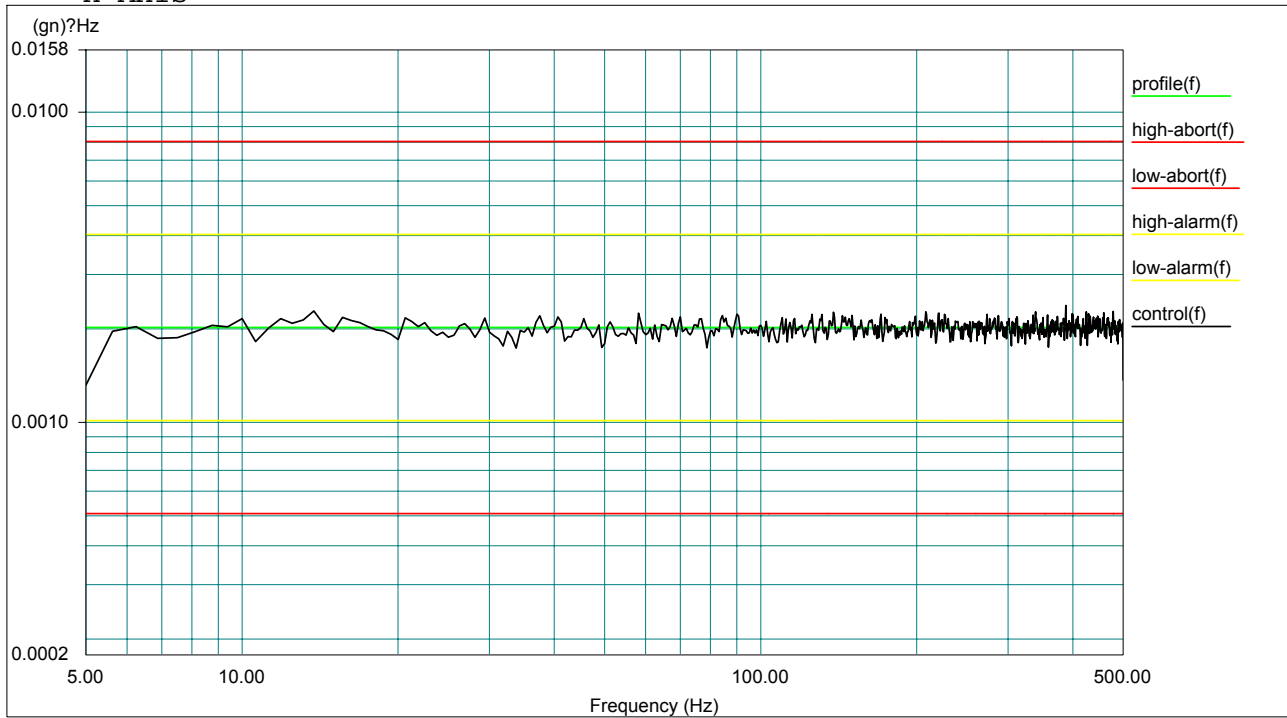
Data saved at 03:45:24 PM, Friday, September 05, 2008  
Report created at 03:45:28 PM, Friday, September 5, 2008

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## TESTS CONDUCTED

**1. VIBRATION TEST**

-TEST PROFILE:  
TEST 2  
X AXIS



Level:100 %  
Control RMS:1.022696 gn  
Full Level Elapsed Time:00:30:00  
Lines:800  
Frame Time:1.600000 Seconds  
Demand RMS:1.000374 gn  
Remaining Time:00:00:00  
DOF:300  
dF:0.625000 Hz

Data saved at 07:35:50 PM, Friday, September 05, 2008

Report created at 07:35:51 PM, Friday, September 5, 2008

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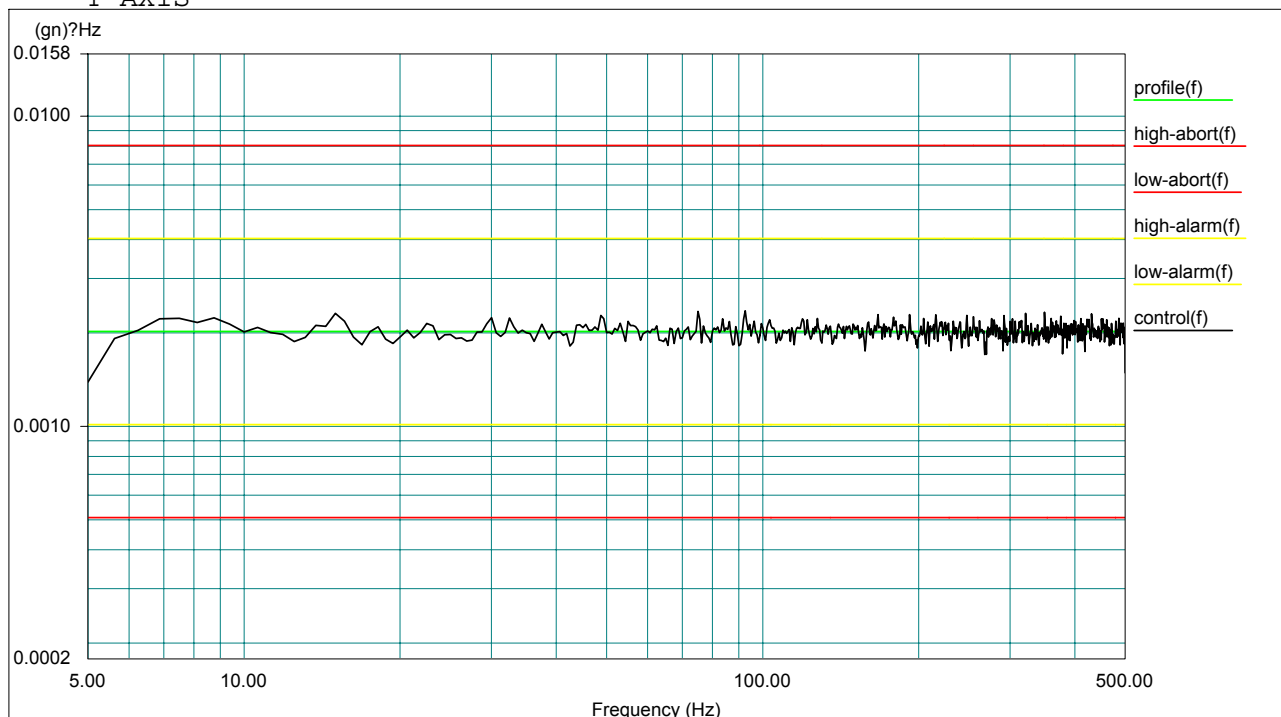
## TESTS CONDUCTED

**1. VIBRATION TEST**

-TEST PROFILE:

TEST 2

Y AXIS



Level:100 %

Control RMS:1.004970 gn

Full Level Elapsed Time:00:30:00

Lines:800

Frame Time:1.600000 Seconds

Demand RMS:1.000374 gn

Remaining Time:00:00:00

DOF:300

dF:0.625000 Hz

Data saved at 05:51:43 PM, Friday, September 05, 2008

Report created at 05:51:44 PM, Friday, September 5, 2008

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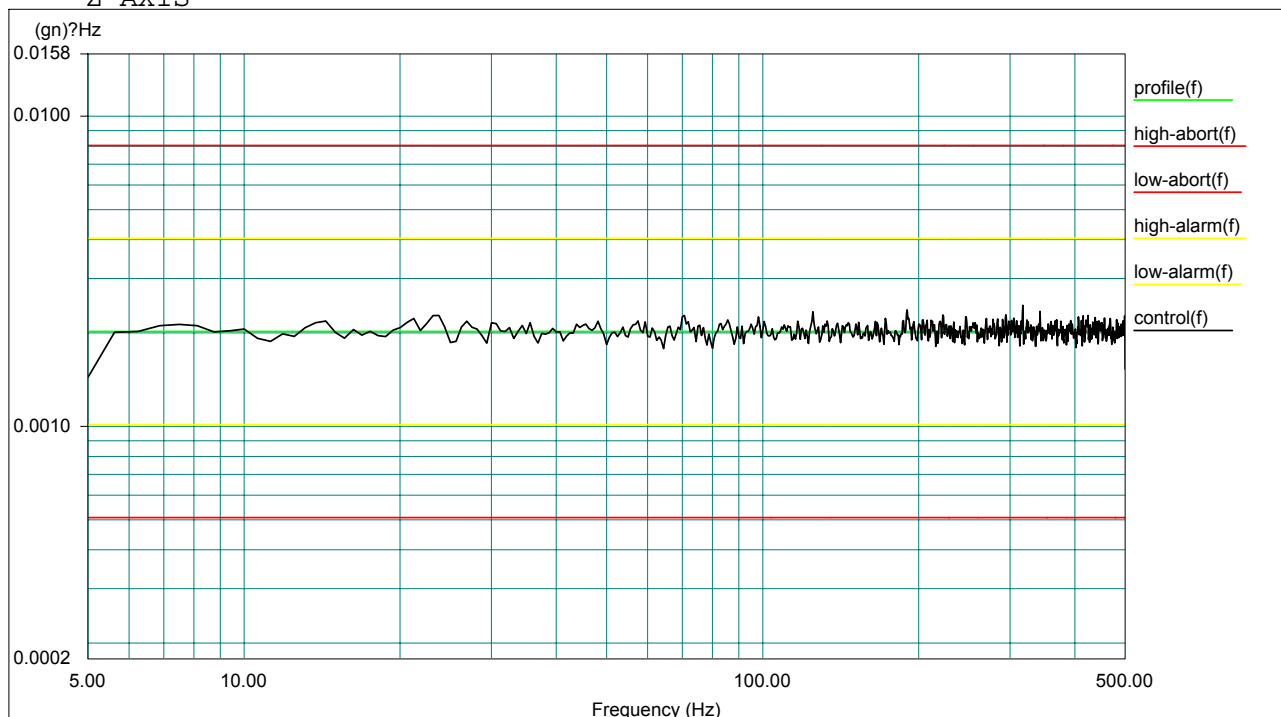
## TESTS CONDUCTED

**1. VIBRATION TEST**

-TEST PROFILE:

TEST 2

Z AXIS



Level:100 %

Control RMS:1.084942 gn

Full Level Elapsed Time:00:30:00

Lines:800

Frame Time:1.600000 Seconds

Demand RMS:1.000374 gn

Remaining Time: 00:00:00

DOF:300

dF:0.625000 Hz

Data saved at 06:39:16 PM, Friday, September 05, 2008

Report created at 06:39:16 PM, Friday, September 5, 2008

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## TESTS CONDUCTED

## 2. HUMIDITY TEST

**TESTED SAMPLE:** SAMPLE 2

**TEST EQUIPMENT:**

EQUIPMENT : TEMPERATURE & HUMIDITY CHAMBER  
 MANUFACTURER : KSON  
 MODEL NUMBER : THS-D4S-100  
 DATE OF CALIBRATION : NOV. 28, 2007

**LABORATORY AMBIANCE CONDITION:**

TEMPERATURE: 18 ~ 28 °C  
 HUMIDITY : 20 ~ 80 %RH

**REFERENCE DOCUMENT:**

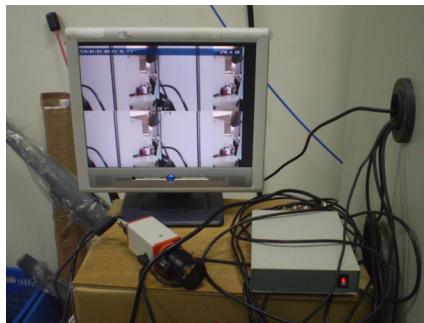
-THE TEST WAS PERFORMED WITH REFERENCE TO IEC 60068-2-3 TEST Ca.

**PERIPHERAL SETUP DIAGRAM:**

-SAMPLE SIZE: 1 UNIT  
 -SETUP PHOTO:



SET 01



SET 02

**TEST CONDITION:**

-OPERATION TEST: INPUT ELECTRICAL POWER TO OPERATE DURING THE TEST.  
 -NUMBER OF CYCLE: 1 CYCLE  
 -TEST CONDITION PER CYCLE:

TEST STEP	TEMPERATURE (°C)	HUMIDITY (%RH)	DURATION (MINUTE)
1	25 TO -10	0	35
2	-10	0	235
3	-10 TO 55	0 TO 85	65
4	55	85	235
5	55 TO 25	85 TO 0	30

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TESTS CONDUCTED

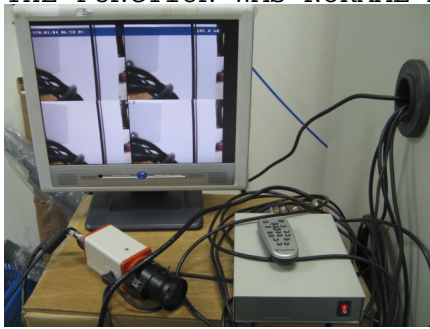
2. HUMIDITY TEST

**TEST PROCEDURE:**

- CHECK THE SAMPLE'S APPEARANCE BEFORE TEST.
- PUT THE SAMPLE INTO CHAMBER AND SET UP TESTING CONDITION.
- AFTER TESTING, TAKE OUT SAMPLE FROM CHAMBER AND PUT THEM IN THE STORAGE AREA.
- CHECK THE TEMPERATURE RECORD.
- OBSERVE THE SAMPLE AND RECORD FOR ANY VISIBLE CHANGE AFTER TESTING.

**SUMMARY:**

- NO VISIBLE DAMAGE WAS FOUND AFTER THE TEST.
- THE FUNCTION WAS NORMAL AFTER THE TEST.



AFTER 01

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TESTS CONDUCTED

2. HUMIDITY TEST

-TEST PROFILE:



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END OF REPORT