



Shenzhen Certification Technologh Service Co., Ltd  
2F, Building B, East Area of Nanchang Second Industrial Zone,  
Gushu 2<sup>nd</sup> Road, Bao'an District, Shenzhen 518126, P.R. China

# TEST REPORT

**FCC ID: O26-H479**

**Applicant** **VIRTIUM TECHNOLOGY, INC.**  
**Address** **30052 TOMAS RANCHO SANTA MARGARITA, CA 92688**

**Equipment under Test (EUT):**

Name : SSD Hard Drive

Model : StorFly

**Standards** : FCC PART 15, Subpart B Class B 2011

**Report No.** : STE120607700

**Date of Test** : June 7-June 14, 2012

**Date of Issue** : June 15, 2012

|                      |               |
|----------------------|---------------|
| <b>Test Result :</b> | <b>PASS *</b> |
|----------------------|---------------|

\* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)  
General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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## TEST REPORT VERIFICATION

Applicant : VIRTIUM TECHNOLOGY, INC.  
Manufacturer : VIRTIUM TECHNOLOGY, INC.  
EUT Description : SSD Hard Drive

|                  |  |
|------------------|--|
| (A) Model No.    | : StorFly  |
| (B) Trademark    | : VIRTIUM  |
| (C) Serial No.   | : N/A  |
| (D) Power Supply | : EUT supply by DC 5V from PC,<br>PC supply by AC 120V/60Hz. |
| (E) Test Voltage | : EUT supply by DC 5V from PC,<br>PC supply by AC 120V/60Hz. |

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2011

The device described above is tested by Shenzhen Certification Technology Service Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Certification Technology Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Certification Technology Service Co., Ltd.

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION                           |                                       |         |         |  |
|------------------------------------|---------------------------------------|---------|---------|--|
| Description of Test Item           | Standard                              | Limits  | Results |  |
| Power Line Conducted Emission Test | FCC Part 15: 2011<br>ANSI C63.4: 2003 | Class B | PASS    | Minimargin with respect to the limits: -12.51 dB at 4.574MHz   |
| Radiated Emission Test             | FCC Part 15: 2011<br>ANSI C63.4: 2003 | Class B | PASS    | Minimargin with respect to the limits: -15.46 dB at 900.09 MHz |

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Description : SSD Hard Drive

Model Number : StorFly

Trademark : VIRTIUM

Power Supply : EUT supply by DC 5V from PC,  
PC supply by AC 120V/60Hz.

Highest frequency : Crystal frequency: 50MHz

Applicant : VIRTIUM TECHNOLOGY, INC.  
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Manufacturer : VIRTIUM TECHNOLOGY, INC.  
30052 TOMAS RANCHO SANTA MARGARITA, CA 92688

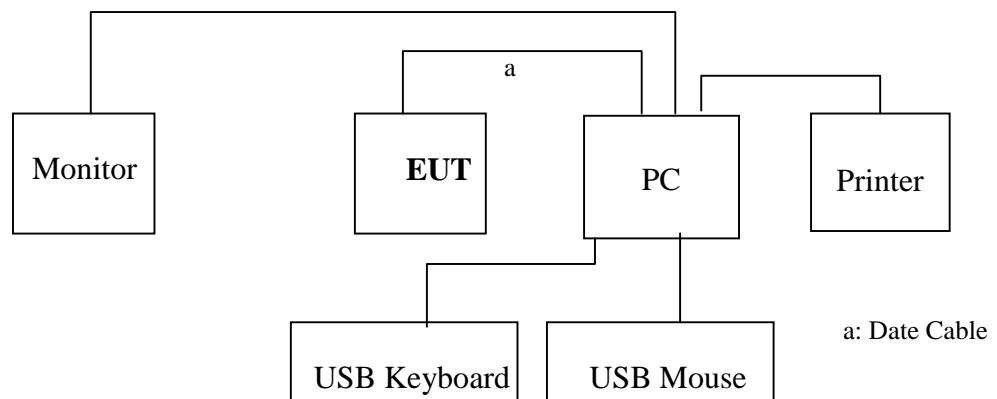
Date of Test : June 7-June 14, 2012

Sample Type : Series production

## 2.2. Tested Supporting System Details

| No. | Description       | Manufacturer | Model        | Serial Number          |
|-----|-------------------|--------------|--------------|------------------------|
| 1.  | Personal Computer | ACER         | ASPIRE M1830 | PTSF90C00305005CAC3000 |
| 2.  | Monitor           | ACER         | G205HV       | SNID:10306738385       |
| 3.  | USB Keyboard      | ACER         | SK-9625      | KBUSB1580500037E0100   |
| 4.  | USB Mouse         | ACER         | MS.11200.014 | M-UAY-ACR2             |
| 5.  | Printer           | HP           | HP1020       | CNCJ410726             |

## 2.3. Block Diagram of connection between EUT and simulators



※ EUT: SSD Hard Drive

## 2.4. Test Facility

JAN 13, 2012 File on Federal Communication Commission  
Registration Number: 197647

October 11, 2011 Certificated by IC  
Registration Number: 8528B

## 2.5. Measurement Uncertainty

(95% confidence levels, k=2)

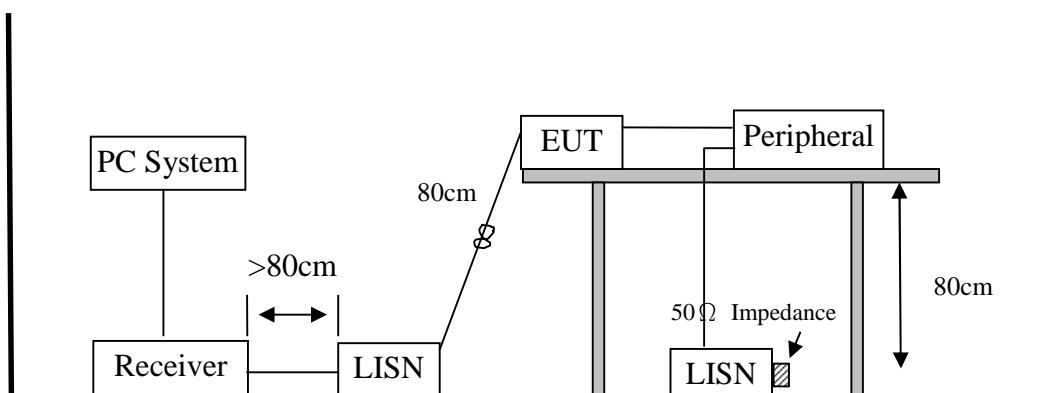
| Test Item  | Uncertainty                        |
|--|------------------------------------|
| Uncertainty for Conduction emission test           | 2.50dB                             |
| Uncertainty for Radiation Emission test            | 3.04 dB (Distance: 3m Polarize: V) |
|  | 3.02 dB (Distance: 3m Polarize: H) |
| Uncertainty for test site temperature and humidity | 0.6°C                              |
|  | 3%                                 |

### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipment

| Item | Equipment         | Manufacturer  | Model No.       | Serial No.            | Last Cal.   | Cal. Interval |
|------|-------------------|---------------|-----------------|-----------------------|-------------|---------------|
| 1.   | Test Receiver     | Rohde&Schwarz | ESCI            | 1166.5950K03<br>-1011 | Oct. 17, 11 | 1 Year        |
| 2.   | L.I.S.N.          | Schwarzbeck   | NSLK8126        | 8126466               | Oct. 17, 11 | 1 Year        |
| 3.   | L.I.S.N.-2        | Kyoritsu      | KNW-407         | 8-1628-5              | Oct. 17, 11 | 1 Year        |
| 4.   | Terminator        | Hubersuhner   | 50Ω             | No. 1                 | Oct. 17, 11 | 1 Year        |
| 5.   | RF Cable          | Schwarzbeck   | 9111505/20<br>0 | 5995-12-161-6<br>890# | Oct. 17, 11 | 1 Year        |
| 6.   | Coaxial<br>Switch | Schwarzbeck   | CX-210          | N/A                   | Oct. 17, 11 | 1 Year        |
| 7.   | Pulse Limiter     | Schwarzbeck   | VTSD9516<br>F   | 9618                  | Oct. 17, 11 | 1 Year        |

#### 3.2. Block Diagram of Test Setup



#### 3.3. Power Line Conducted Emission Test Limits

| Frequency       | Maximum RF Line Voltage    |                         |
|-----------------|----------------------------|-------------------------|
|                 | Quasi-Peak Level<br>dB(µV) | Average Level<br>dB(µV) |
| 150kHz ~ 500kHz | 66 ~ 56*                   | 56 ~ 46*                |
| 500kHz ~ 5MHz   | 56                         | 46                      |
| 5MHz ~ 30MHz    | 60                         | 50                      |

Notes: 1. Emission level=Read level+ LISN factor+Preamp factor+ Cable loss

2\* Decreasing linearly with logarithm of frequency.

3. The lower limit shall apply at the transition frequencies.

### 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

Support Equipments : As Tested Supporting System Detail, in Section 2.2.

### 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (Link PC) and measure it.

### 3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 10kHz.

The frequency range from 150KHz to 30MHz is checked. The test result are reported on Section 3.7.

### 3.7. Conducted Disturbance at Mains Terminals Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test mode was tested and read Q.P values and average values, the test results are listed in next pages.

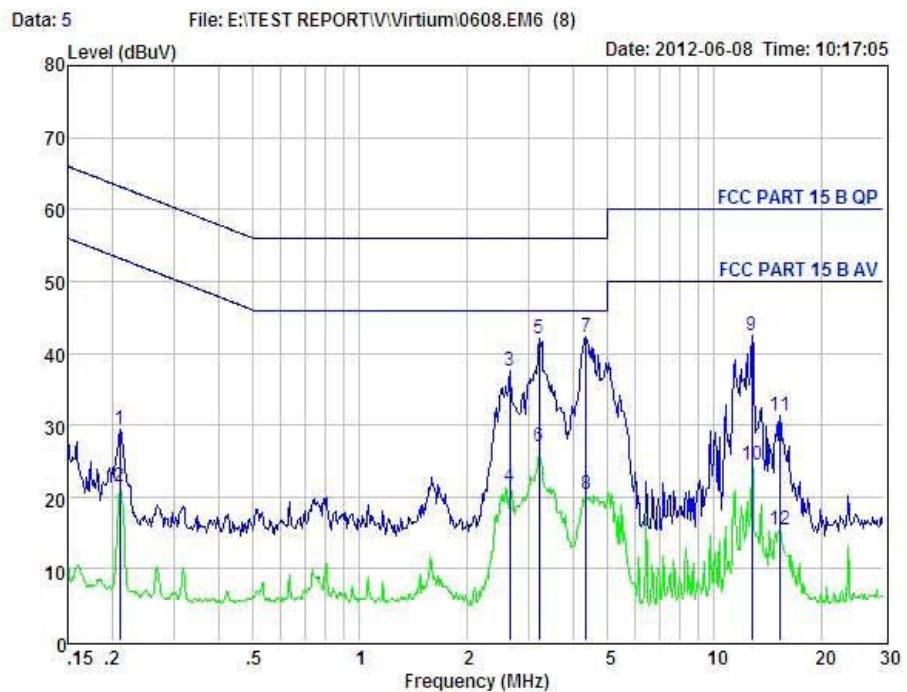
Temperature: 29.5°C      Humidity: 55%

The details of test mode is as follows :

| No. | Test Mode |
|-----|-----------|
| 1.  | Copy data |



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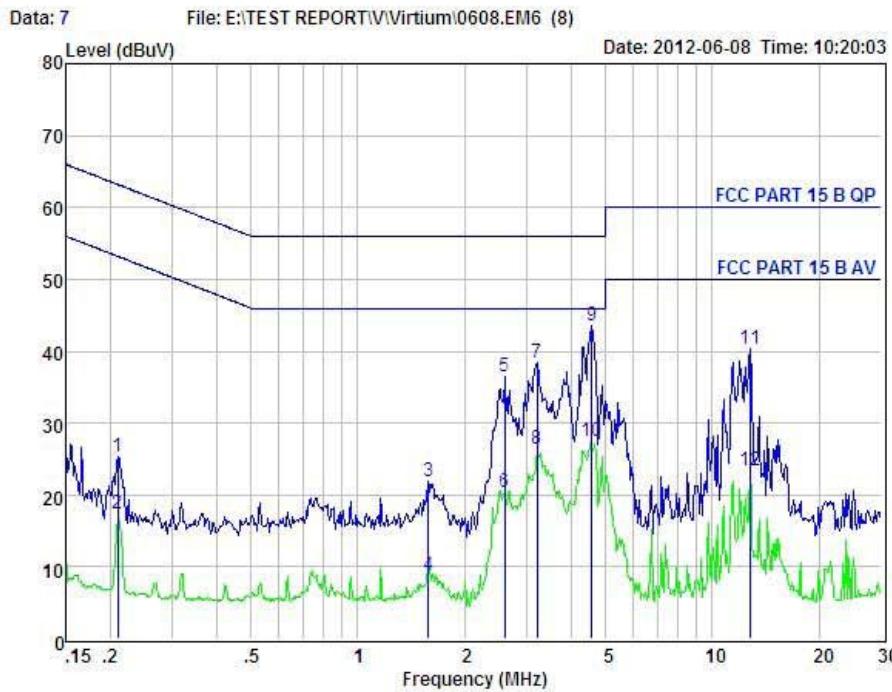


Condition : FCC PART 15 B QP POL: NEUTRAL  
 EUT : SSD Hard Drive  
 Model No. : StorFly  
 Test Mode : Copy Data  
 Power : DC 5V From PC  
 Test Engineer: Terry  
 Remark :

| Item | Freq   | Read  | LISN   | Preamp | Cable | Level | Limit | Margin | Remark  |
|------|--------|-------|--------|--------|-------|-------|-------|--------|---------|
|      | MHz    | dBuV  | Factor | Factor | dB    | dBuV  | dBuV  | dBuV   |         |
| 1    | 0.211  | 19.59 | 0.03   | -9.72  | 0.10  | 29.44 | 63.18 | -33.74 | QP      |
| 2    | 0.211  | 11.59 | 0.03   | -9.72  | 0.10  | 21.44 | 53.18 | -31.74 | Average |
| 3    | 2.650  | 27.67 | 0.06   | -9.70  | 0.11  | 37.54 | 56.00 | -18.46 | QP      |
| 4    | 2.650  | 11.67 | 0.06   | -9.70  | 0.11  | 21.54 | 46.00 | -24.46 | Average |
| 5    | 3.207  | 32.18 | 0.07   | -9.69  | 0.12  | 42.06 | 56.00 | -13.94 | QP      |
| 6    | 3.207  | 17.18 | 0.07   | -9.69  | 0.12  | 27.06 | 46.00 | -18.94 | Average |
| 7    | 4.361  | 32.39 | 0.09   | -9.68  | 0.12  | 42.28 | 56.00 | -13.72 | QP      |
| 8    | 4.361  | 10.39 | 0.09   | -9.68  | 0.12  | 20.28 | 46.00 | -25.72 | Average |
| 9    | 12.784 | 32.54 | 0.24   | -9.44  | 0.22  | 42.44 | 60.00 | -17.56 | QP      |
| 10   | 12.784 | 14.54 | 0.24   | -9.44  | 0.22  | 24.44 | 50.00 | -25.56 | Average |
| 11   | 15.388 | 21.51 | 0.24   | -9.39  | 0.25  | 31.39 | 60.00 | -28.61 | QP      |
| 12   | 15.388 | 5.51  | 0.24   | -9.39  | 0.25  | 15.39 | 50.00 | -34.61 | Average |



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Condition : FCC PART 15 B QP POL: LINE  
 EUT : SSD Hard Drive  
 Model No. : StorFly  
 Test Mode : Copy Data  
 Power : DC 5V From PC  
 Test Engineer: Terry  
 Remark :

| Item | Freq   | Read  | LISN   | Preamp | Cable | Level | Limit | Margin | Remark  |
|------|--------|-------|--------|--------|-------|-------|-------|--------|---------|
|      | MHz    | dBuV  | Factor | Factor | dB    | dBuV  | dBuV  | dBuV   |         |
| 1    | 0.211  | 15.43 | 0.03   | -9.72  | 0.10  | 25.28 | 63.18 | -37.90 | QP      |
| 2    | 0.211  | 7.43  | 0.03   | -9.72  | 0.10  | 17.28 | 53.18 | -35.90 | Average |
| 3    | 1.585  | 12.02 | 0.05   | -9.71  | 0.10  | 21.88 | 56.00 | -34.12 | QP      |
| 4    | 1.585  | -0.98 | 0.05   | -9.71  | 0.10  | 8.88  | 46.00 | -37.12 | Average |
| 5    | 2.594  | 26.57 | 0.06   | -9.70  | 0.11  | 36.44 | 56.00 | -19.56 | QP      |
| 6    | 2.594  | 10.57 | 0.06   | -9.70  | 0.11  | 20.44 | 46.00 | -25.56 | Average |
| 7    | 3.207  | 28.44 | 0.07   | -9.69  | 0.12  | 38.32 | 56.00 | -17.68 | QP      |
| 8    | 3.207  | 16.44 | 0.07   | -9.69  | 0.12  | 26.32 | 46.00 | -19.68 | Average |
| 9    | 4.574  | 33.60 | 0.09   | -9.68  | 0.12  | 43.49 | 56.00 | -12.51 | QP      |
| 10   | 4.574  | 17.60 | 0.09   | -9.68  | 0.12  | 27.49 | 46.00 | -18.51 | Average |
| 11   | 12.784 | 30.45 | 0.24   | -9.44  | 0.22  | 40.35 | 60.00 | -19.65 | QP      |
| 12   | 12.784 | 13.45 | 0.24   | -9.44  | 0.22  | 23.35 | 50.00 | -26.65 | Average |

## 4. RADIATED EMISSION TEST

### 4.1. Test Equipment

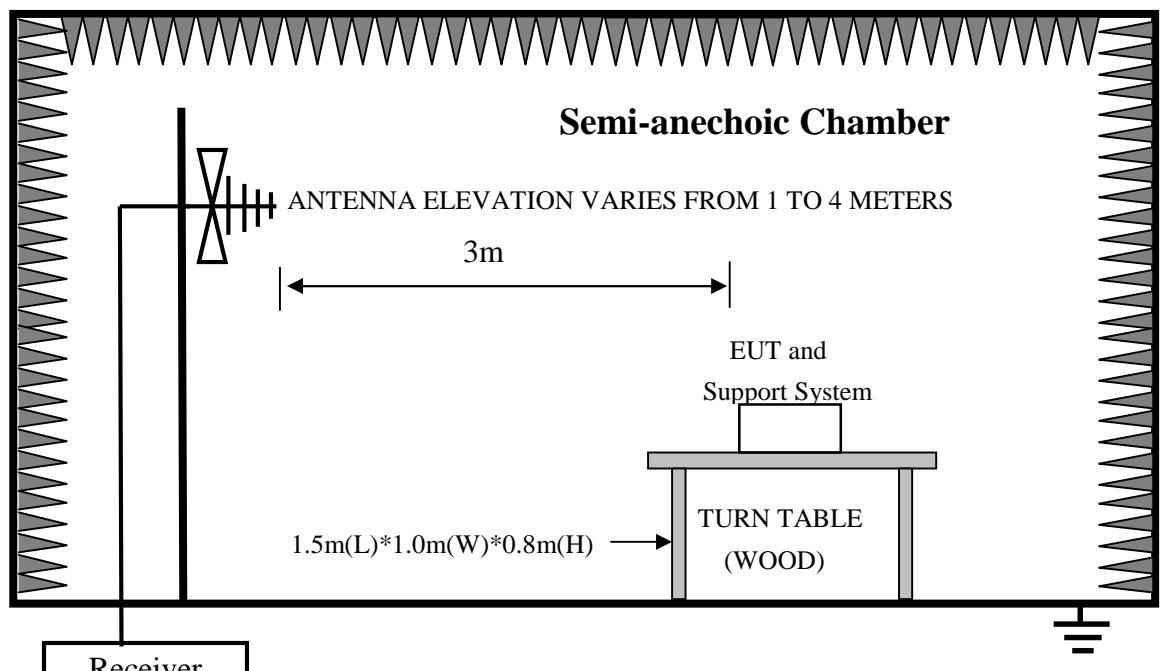
| Item | Equipment     | Manufacturer  | Model No. | Serial No.        | Last Cal.   | Cal. Interval |
|------|---------------|---------------|-----------|-------------------|-------------|---------------|
| 1    | Test Receiver | Rohde&Schwarz | ESCI      | 1166.5950K06-1012 | Oct. 17, 11 | 1 Year        |
| 2    | Amplifier     | Schwarzbeck   | BBV9743   | 9743-019          | Oct. 17, 11 | 1 Year        |
| 3    | Bilog Antenna | Schwarzbeck   | VULB 9168 | VULB9168-438      | Feb. 10, 12 | 1 Year        |
| 4    | RF Cable      | Schwarzbeck   | AK9515E   | 95891-2m          | Oct. 17, 11 | 1 Year        |
| 5    | RF Cable      | Schwarzbeck   | AK9515E   | 95891-11m         | Oct. 17, 11 | 1 Year        |
| 6    | RF Cable      | Schwarzbeck   | AK9515E   | 95891-0.5m        | Oct. 17, 11 |               |

For frequency range 1GHz~5GHz (At Semi Anechoic Chamber)

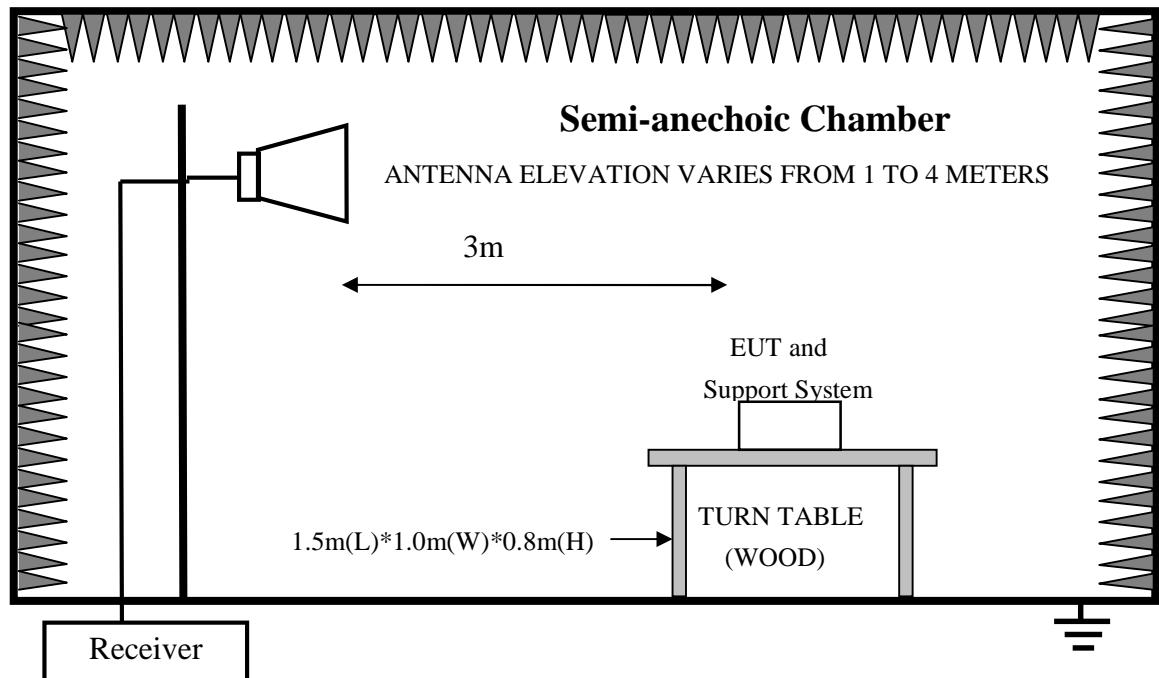
| Item | Equipment         | Manufacturer | Model No.    | Serial No. | Last Cal.   | Cal. Interval |
|------|-------------------|--------------|--------------|------------|-------------|---------------|
| 1    | Spectrum Analyzer | Agilent      | E4446A       | US44300459 | Oct. 17, 11 | 1 Year        |
| 2    | Horn Antenna      | EMCO         | BBV9743      | 9743-019   | Feb. 10, 12 | 1 Year        |
| 3    | Amplifier         | Schwarzbeck  | SCHWARZBEC K | N/A        | Oct. 17, 11 | 1 Year        |
| 4    | RF Cable          | Hubersuhner  | SUCOFLEX102  | 28620/2    | Oct. 17, 11 | 1 Year        |
| 5    | RF Cable          | Hubersuhner  | SUCOFLEX102  | 271471/4   | Oct. 17, 11 | 1 Year        |
| 6    | RF Cable          | Hubersuhner  | SUCOFLEX102  | 29086/2    | Oct. 17, 11 | 1 Year        |

### 4.2. Block Diagram of Test Setup

#### 4.2.1. In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



## 4.2.2. In Semi Anechoic Chamber (3m) Test Setup Diagram for 1-5GHz



## 4.3. Radiated Emission Limit

| Frequency<br>MHz | Distance<br>(Meters) | Field Strengths Limits<br>dB( $\mu$ V/m) |
|------------------|----------------------|--|
| 30 ~ 88          | 3                    | 40.0                                     |
| 88 ~ 216         | 3                    | 43.5                                     |
| 216 ~ 960        | 3                    | 46.0                                     |
| 960 ~ 1000       | 3                    | 54.0                                     |
| 1000 ~ 5000      | 3                    | 74(Peak) 54(Average)                     |

Remark: (1) Emission level = Read level+Antenna Factor+Preamp Factor +Cable Loss  
 (2) The smaller limit shall apply at the cross point between two frequency bands.  
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

## 4.4.1. Support Equipments : As Tested Supporting System Detail, in Section 2.2.

#### 4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3. Let the EUT work in test mode (Link PC) and test it.

#### 4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on Radiated Emission test.

The bandwidth setting on the test receiver (ROHDE&SCHWARZ TEST RECEIVER ESCI) is 120 kHz.

The resolution bandwidth of the Agilent Spectrum Analyzer E4446A was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The frequency range from 1GHz to 5GHz was checked with peak and average detector, measurement distance is 3m in 3m chamber.

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

#### 4.7. Radiated Disturbance Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

**For frequency range 30MHz~1000MHz**

The EUT with the following test mode was tested and read Q.P values, all the test results listed in next pages.

Temperature: 24°C      Humidity: 56%

The details of test mode is as follows :

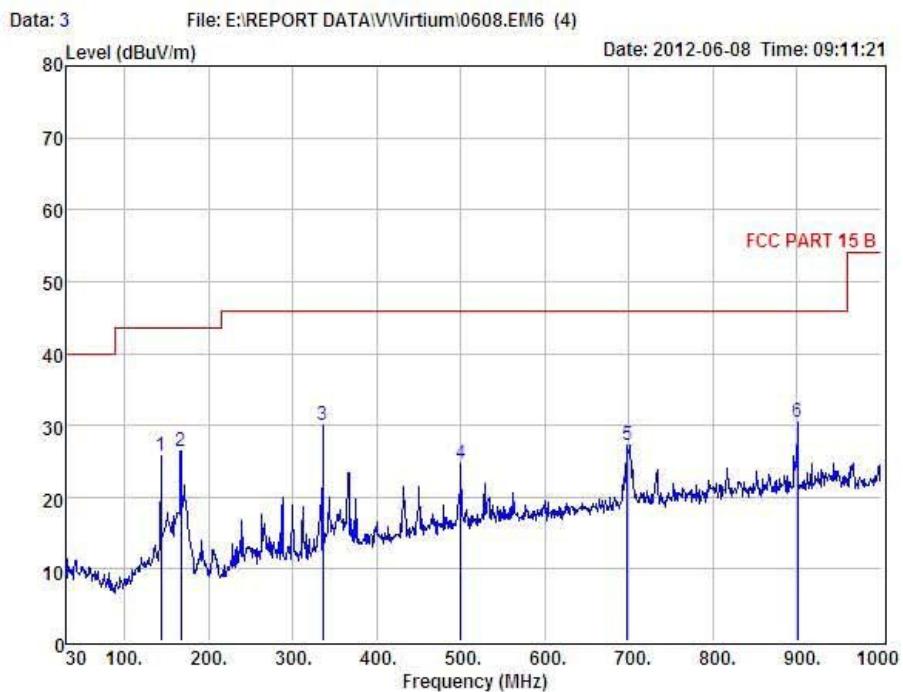
| NO. | Test Mode |
|-----|-----------|
| 1.  | Copy data |

**For frequency range above 1GHz**

The highest frequency of the internal sources of the EUT is Crystal frequency is 50 MHz less than 108 MHz, the measurement shall only be made up to 1 GHz. So the frequency above 1GHz radiation test not applicable.



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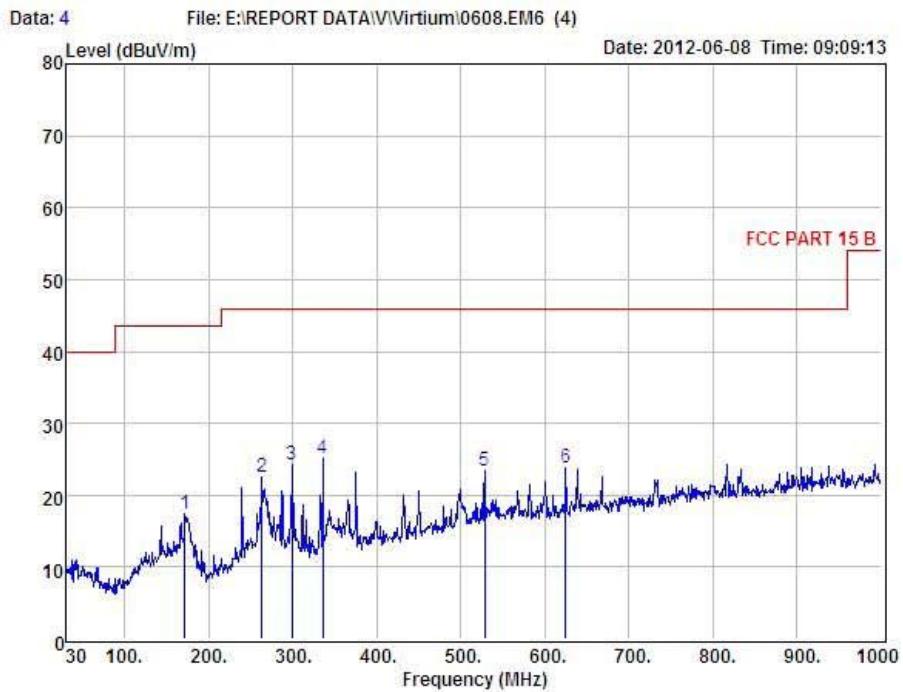


Condition : FCC PART 15 B 3m POL: VERTICAL  
 EUT : SSD Hard Drive  
 Model No. : StorFly  
 Test Mode : Copy Data  
 Power : DC 5V From PC  
 Test Engineer : Terry  
 Remark :

| Item | Freq<br>MHz | Read<br>Level<br>dBuV | Antenna<br>Factor<br>dB | Preamp<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1    | 143.49      | 39.93                 | 13.64                   | 28.90                  | 1.10                | 25.77         | 43.50         | -17.73         | QP     |
| 2    | 166.77      | 40.51                 | 13.56                   | 28.92                  | 1.22                | 26.37         | 43.50         | -17.13         | QP     |
| 3    | 335.55      | 43.53                 | 13.58                   | 29.25                  | 2.12                | 29.98         | 46.00         | -16.02         | QP     |
| 4    | 499.48      | 34.71                 | 16.51                   | 29.62                  | 2.99                | 24.59         | 46.00         | -21.41         | QP     |
| 5    | 698.33      | 34.02                 | 19.64                   | 29.76                  | 3.40                | 27.30         | 46.00         | -18.70         | QP     |
| 6    | 900.09      | 34.74                 | 21.64                   | 29.64                  | 3.80                | 30.54         | 46.00         | -15.46         | QP     |



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Condition : FCC PART 15 B 3m POL: HORIZONTAL  
 EUT : SSD Hard Drive  
 Model No. : StorFly  
 Test Mode : Copy Data  
 Power : DC 5V From PC  
 Test Engineer: Terry  
 Remark :

| Item | Freq<br>MHz | Read<br>Level<br>dBuV | Antenna<br>Factor<br>dB | Preamp<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1    | 171.62      | 32.23                 | 12.88                   | 28.92                  | 1.25                | 17.44         | 43.50         | -26.06         | QP     |
| 2    | 263.77      | 37.96                 | 11.90                   | 29.13                  | 1.74                | 22.47         | 46.00         | -23.53         | QP     |
| 3    | 298.69      | 38.61                 | 12.80                   | 29.19                  | 1.92                | 24.14         | 46.00         | -21.86         | QP     |
| 4    | 335.55      | 38.71                 | 13.58                   | 29.25                  | 2.12                | 25.16         | 46.00         | -20.84         | QP     |
| 5    | 528.58      | 32.85                 | 17.03                   | 29.67                  | 3.06                | 23.27         | 46.00         | -22.73         | QP     |
| 6    | 624.61      | 31.65                 | 18.76                   | 29.81                  | 3.25                | 23.85         | 46.00         | -22.15         | QP     |

## 5. PHOTOGRAPH

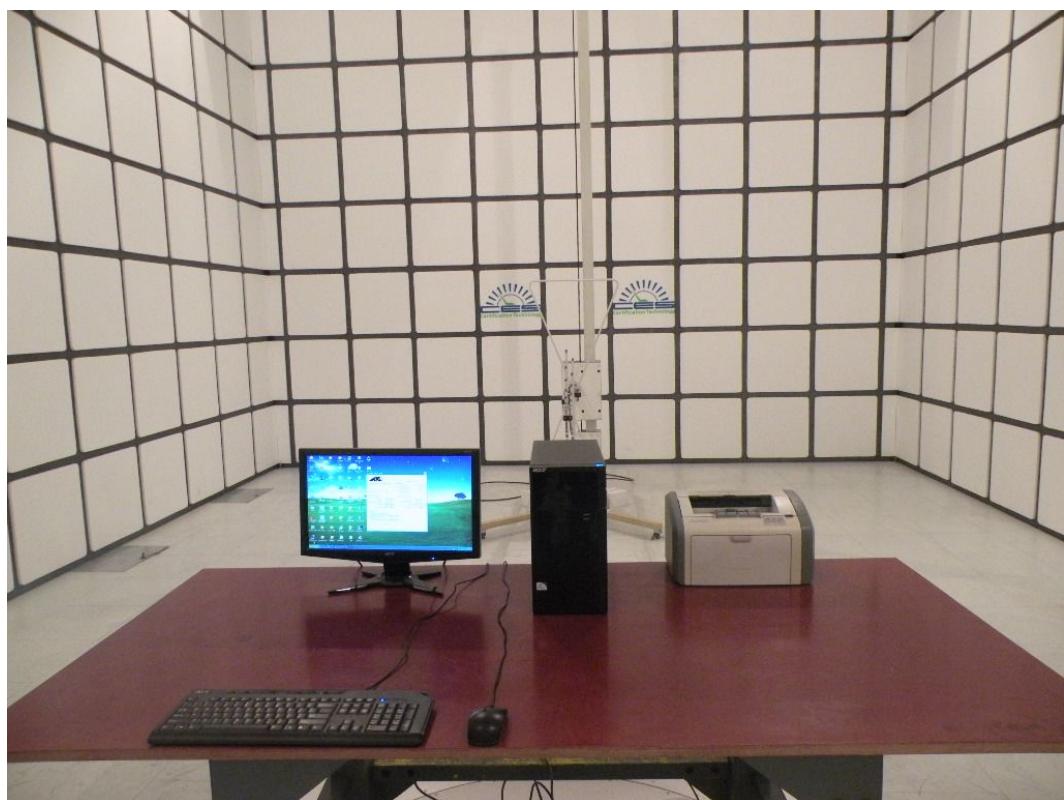
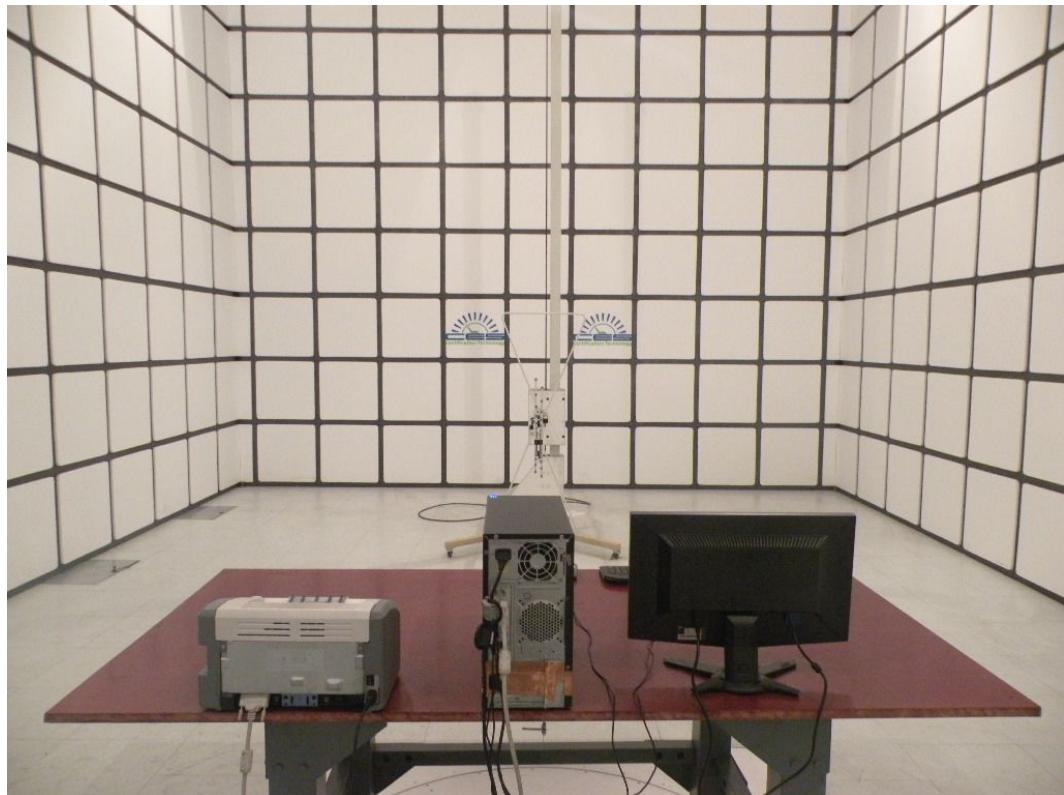
### 5.1. Photos of Power Line Conducted Emission Test

Note: EUT installation in the PC.



## 5.2.Photos of Radiated Emission Test (In Anechoic Chamber)

Note: EUT installation in the PC.



## 6. PHOTOS OF THE EUT

**Full View**



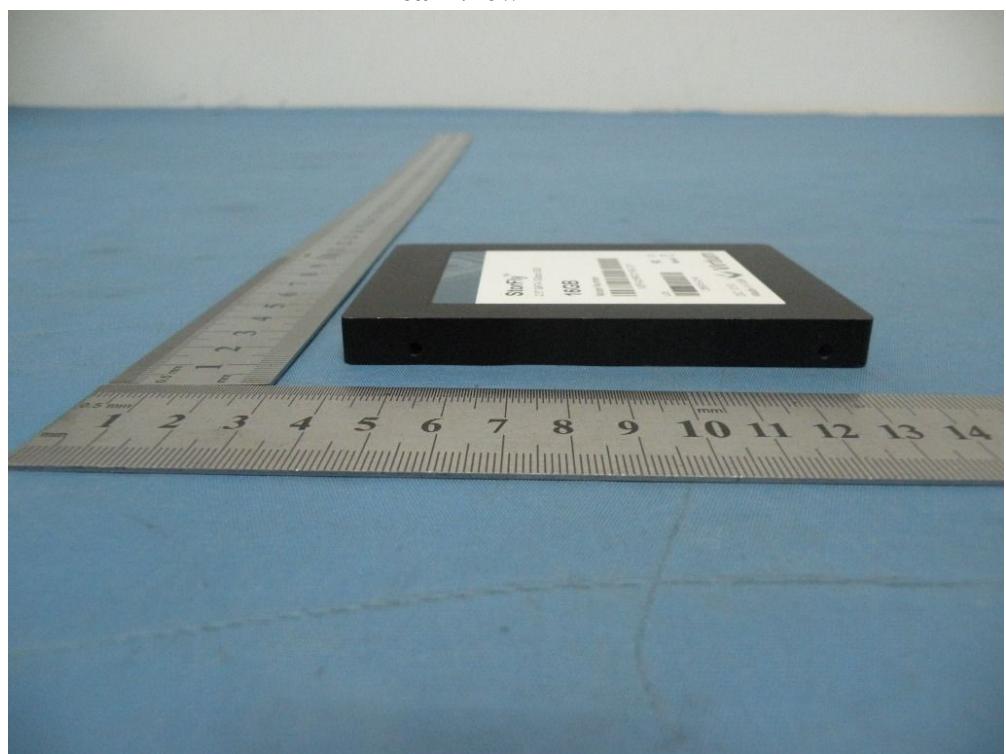
**Top View**



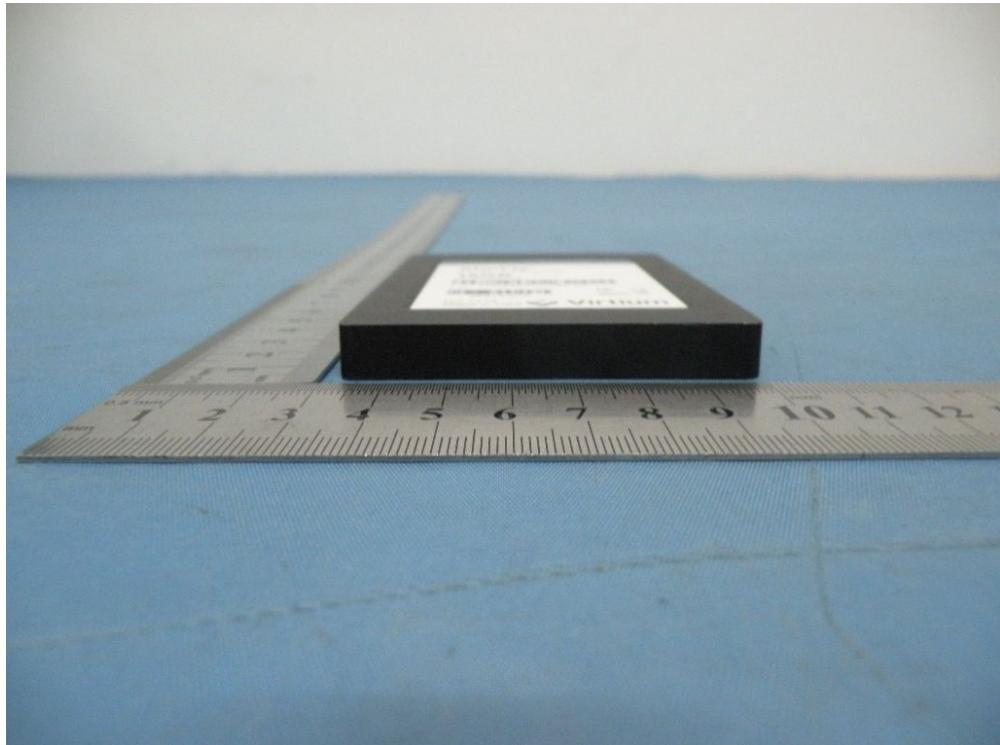
**Bottom View**



**Rear View**



**Left View**



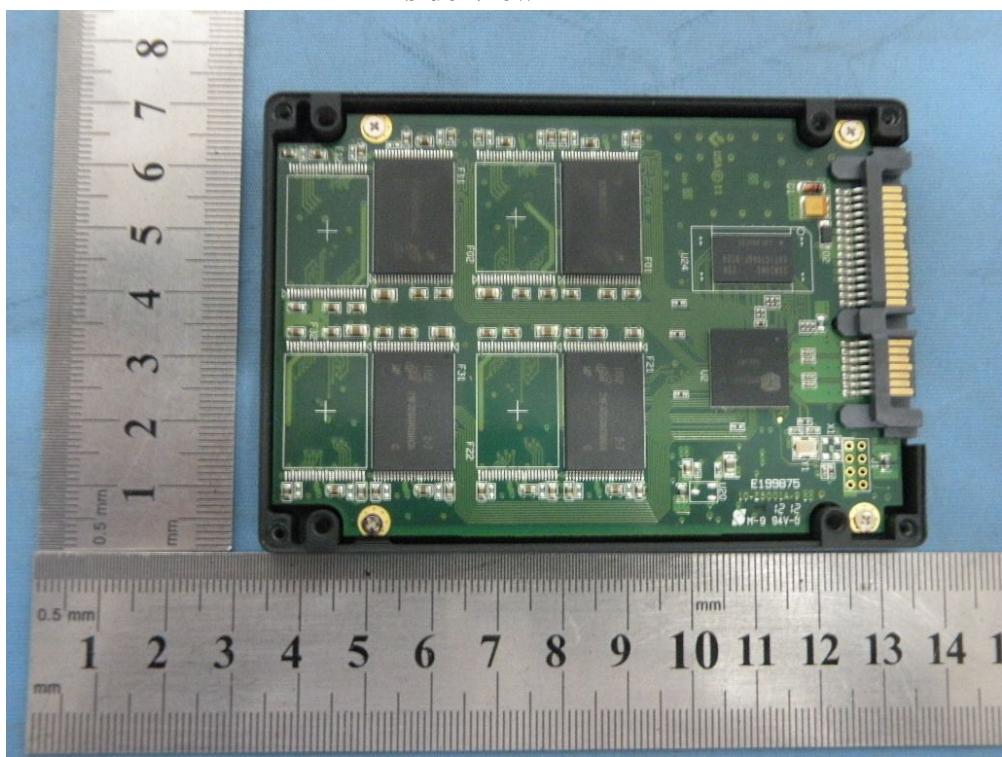
**Right View**

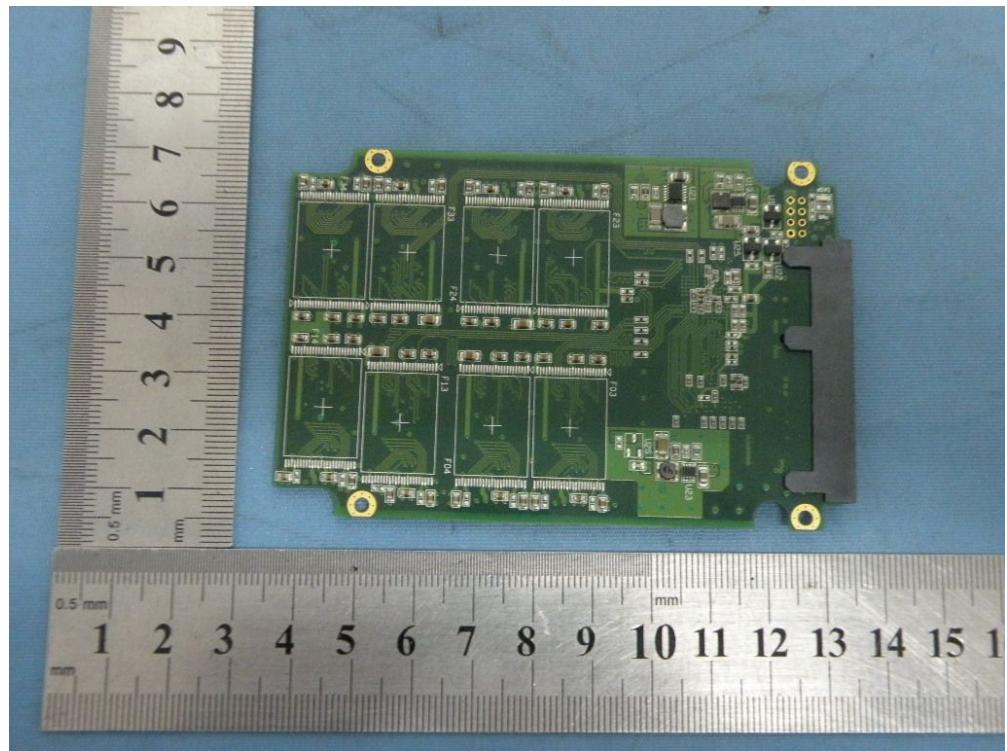


**Front View**



**Inside View**





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