

EMC Test Report

Model No.	<i>SV170-uSSD</i>
Product Name	<i>SATA Flash Drive</i>
Stage	<i>DVT</i>
Section	<i>EMC Test</i>
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Category E : EMC Test

The following test items will test product's ability to meet the required standards.

E-A01 Radiated Emission Test

01) Purpose

This test is to measure the radiated electromagnetic emissions generated by the equipment under the test (EUT), pursuant to standard requirements.

02) Scope

This test applies to all samples during DVT & PVT development stage.

03) Reference Specification

CISPR32

04) Environment Condition

Temperature : Room Temperature

Humidity : Normal room ambient

05) Test Equipment

EMI receiver/EMI spectrum/turn table/bilog antenna/antenna tower/ferrite clamp

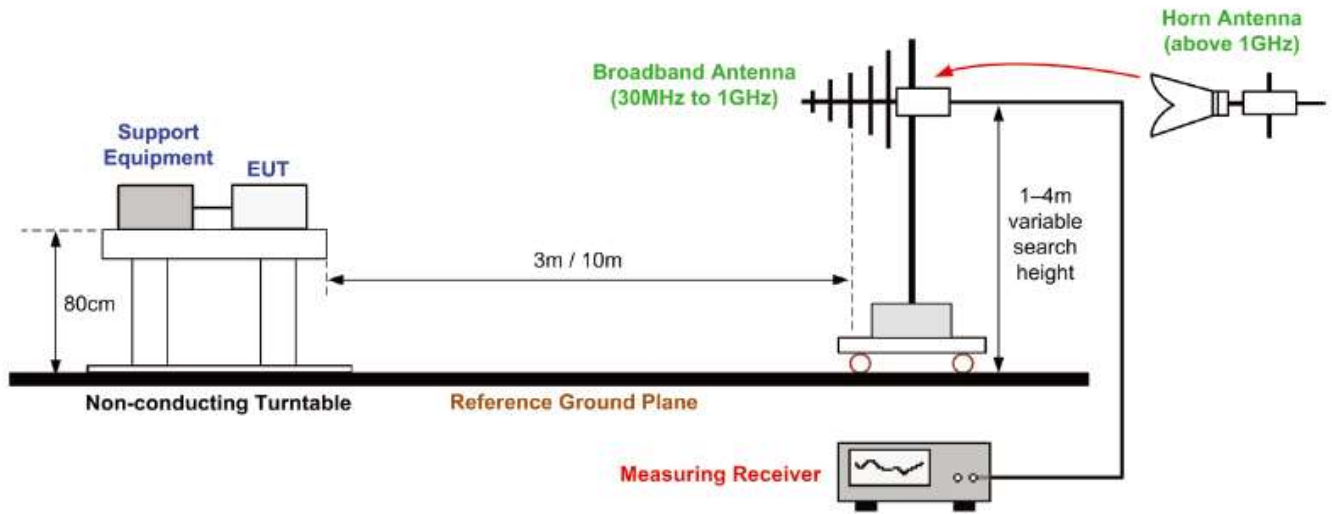
06) Procedure

Testing is performed in an Open Area Test Site. The EUT is placed on a wooden turntable 80 cm in height. The EUT is centered laterally on the turntable and flush with the rear of the table.

Peripheral equipment is placed on either side of the EUT with a minimum of 10 cm spacing.

(When testing a personal computer system, monitors shall be placed on top of the PC and the keyboard and mouse shall be placed in front of the PC towards the front edge of the turntable.)

Excess interface cables are draped over the back edge of the table no closer than 40 cm to the ground plane.



07) Criteria

Limits		
Frequency(MHz)	Distance(m)	dBuV/m
30~230	10	30
230~1000	10	37

08) Test Result

Antenna Polarity	Compliant?
Horizontal	Yes
Vertical	Yes

E-A02 ESD Immunity Test

01) Purpose

The object of the test is to evaluate the ESD immunity performance of EUT.

02) Scope

This test applies to all samples during DVT & PVT development stage.

03) Reference Specification

IEC 61000-4-2

04) Environment Condition

Temperature : Room Temperature

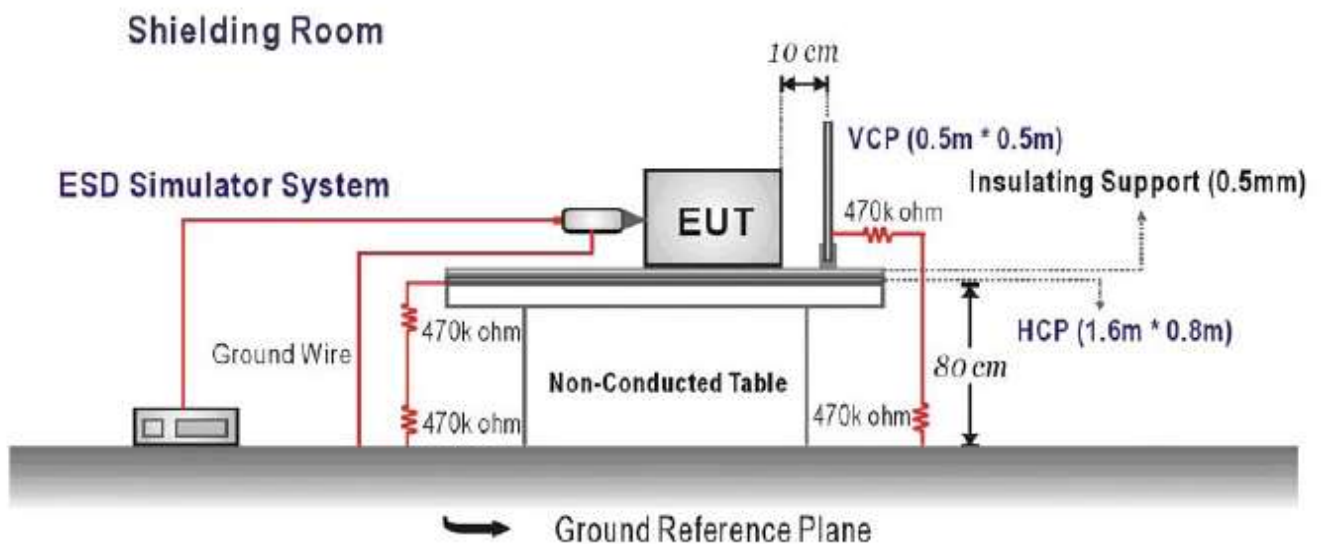
Humidity : Normal room ambient

05) Test Equipment

ESD simulator/HCP/VCP

06) Procedure

A horizontal coupling plane (HCP) was placed on a non-metallic table 0.8 m above a reference ground plane (RGP) and connected to it with a cable with two 470 (k Ω) resistors. The EUT was placed on an insulation sheet on the HCP and was operated according to the specified operating mode.



07) Criteria

Item	Test specification	Unit	Performance criteria
Enclosure room	±2/4/8 (air discharge)	KV (charge voltage)	B
Electrostatic discharge	±2/4 (contact discharge)		
Time between test	1	sec	

08) Test Result

Discharge Level (KV)	Polarity (+/-)	Test Point	Contact Discharge
2	+/-	1~4	Pass
4	+/-	1~4	Pass