UNH IOL SATA Consortium
SATA Mechanical Report v1

InterOperability Lab — 121 Technology Drive, Suite 2 — Durham, NH 03824 — (603) 862-0090

XXCreateDateXX

XXVendorNameXX
XXVendorCompanyXX
XXVendorAddressXX

XXVendorHonorificXX XXVendorLastNameXX:

Enclosed are the test results from the SATA Mechanical testing performed on the:

XXDUTDescXX

The testing was performed according to Version 1.4.3 of the *Serial ATA Interoperability Program Unified Test Document* as well as *Device Mechanical MOI using Calipers (Revision 1.4.3)*, both of which may be viewed online at:

http://www.sata-io.org/developers/interop_14.asp

Note that these tests are based on the SATA specification, *Serial ATA International Organization: Serial ATA Revision 3.2*. The tests covered by this report include those which are defined in the *Serial ATA Interoperability Program Revision 1.4.3 Unified Test Document.*

Note also for convenience, any failures specifically impacting r1.4.3 SATA-IO Integrator's List eligibility are listed as follows:

- **The DUT passed all applicable r1.4.3 SATA-IO Integrator's List Mechanical tests.**

Please feel free to contact me via email at XXEmailXX with any questions you may have regarding this report.

Sincerely,

XXTesterNameXX

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Table 1: Test Setup and DUT Configuration Information

DUT Details	
Manufacturer	XXVendorCompanyXX
Description	XXModelNameXX
Mfr. Serial Number	XXSerialNumberXX
Firmware Version	XXFWVersionXX
UNH-IOL ID Number	XXUNHnumberXX
Device Type	XXFormFactorXX
Test System Hardware	
Calipers	Digital Electronic Caliper Model: F540253S
Additional Comments/Notes	

The following table contains possible results and their meanings:

Result	Interpretation
Pass	The Device Under Test (DUT) was observed to exhibit conformant behavior.
Pass with Comments	The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included, such as due to time limitations only a portion of the testing was performed.
FAIL	The DUT was observed to exhibit non-conformant behavior.
Not Applicable	The DUT does not support the technology required to perform these tests.

Table 2: Summary of SATA mechanical results for the DUT

Test/Parameter	Conformance Limits	Measured	Units	Result
MDI-01 for XXFormFactorXX				
a1) XXA1textXX	I-01a1mid +- I-01a1tol mm	XXMDI-01a1XX	mm	<<**MDI-01a1**>>
a2) XXA2textXX	I-01a2mid +- I-01a2tol mm	XXMDI-01a2XX	mm	<<**MDI-01a2**>>
a3) XXA3textXX	I-01a3mid +- I-01a3tol mm	XXMDI-01a3XX	mm	<<**MDI-01a3**>>
a4) XXA4textXX	I-01a4mid +- I-01a4tol mm	XXMDI-01a4XX	mm	<<**MDI-01a4**>>
a) From the centerline of the side mounting holes to the top of the tongue of the SATA plug.	I-01amid +- I-01atol mm	XXMDI-01aXX	mm	<<**MDI-01a**>>
b) Parallelism of the top of the tongue of the SATA plug vs. the bottom surface of the drive.	<= I-01btol mm	XXMDI-01bXX	mm	<<**MDI-01b**>>
c) From the centerline of the drive to the centerline of the SATA plug.	I-01cmid +- I-01ctol mm	XXMDI-01cXX	mm	<<**MDI-01c**>>
d1) From the centerline of the side mounting holes to the base of the tongue of the SATA plug.	I-01d1mid +- I-01d1tol mm	XXMDI-01d1XX	mm	<<**MDI-01d1**>>
d2) From the centerline of the bottom mounting holes to the base of the tongue of the SATA plug.	I-01d2mid +- I-01d2tol mm	XXMDI-01d2XX	mm	<<**MDI-01d2**>>
d) From the back surface of the drive to the base of the tongue of the SATA plug.	I-01dmid +- I-01dtol mm	XXMDI-01dXX	mm	<<**MDI-01d**>>
e) The thickness of both sides of the drive	I-01emid +- I-01etol mm	XXMDI-01eXX	mm	<<**MDI-01e**>>
MDI-02 Visual and Dimensional Inspections (XXff2XX)				
a) The thickness of the device plug tongue	I-02amid +- I-02atol mm	XXMDI-02aXX	mm	<<**MDI-02a**>>
b) If the "Optional Wall" of Figure 28 is present then the distance from the device plug tongue to the wall	I-02bmid +- I-02btol mm	XXMDI-02bXX	mm	<<**MDI-02b**>>
c) If the "Optional Wall " of Figure 28 is not present, minimum keep out zone	>= I-02ctol mm	XXMDI-02cXX	mm	<<**MDI-02c**>>
d) The combined width of the power and signal segments	I-02dmid +- I-02dtol mm	XXMDI-02dXX	mm	<<**MDI-02d**>>
e) The separation between the power and signal segments	I-02emid +- I-02etol mm	XXMDI-02eXX	mm	<<**MDI-02e**>>
MDP-01 Visual and Dimensional Inspections (XXff2XX)				
a) The thickness of the device plug tongue	P-01amid +- P-01atol mm	XXMDP-01aXX	mm	<<**MDP-01a**>>
b) If the "Optional Wall" of Figure 28 is present then the distance from the device plug tongue to the wall	P-01bmid +- P-01btol mm	XXMDP-01bXX	mm	<<**MDP-01b**>>
c) If the "Optional Wall" of Figure 28 is not present, minimum keep out zone	>= P-01ctol mm	XXMDP-01cXX	mm	<<**MDP-01c**>>

Test Notes: The DUT was within all tolerances