ASUS MIL-STD 810H Test Report - B5602C

Test Category	Test Method	MIL-STD-810H Test Parameters	Test Result
Altitude Storage/Air Transport	Method 500.6-Procedure I	Test Pressure: Equivalent to cabin altitude of 40,000ft Temperature: -20℃ Duration:12 hour Unit is non-operational during test.	Pass
Altitude Operation/Air Carriage	Method 500.6-Procedure II	Test Pressure: Equivalent to cabin altitude of 15,000ft Temperature: 5℃ and 40℃ Duration:12 and 12 hour Unit is operational during test.	Pass
High Temperature Operational (Hot Dry)	Method 501.7-Procedure II	Table 501.7-III-Procedure II High temperature cycles, climate category A1 Hot Dry Duration: 3 day exposure (3 X 24 hr. cycles) Temperature: 32~49℃ cycling temperature exposure Unit is operational during test.	Pass
High Temperature Storage and Transit (Hot Dry)	Method 501.7-Procedure I	Table 501.7-III-Procedure I High temperature cycles, climate category A1 Hot Dry Duration: 7 day exposure (7 X 24 hr. cycles) Temperature:33℃~71℃ Unit is non-operational during test.	Pass
High Temperature Operational (Basic Hot)	Method 501.7-Procedure II	Table 501.7-II.Procedure II High temperature cycles, climatic category A2 - Basic Hot Duration: 3 day exposure (3 X 24 hr. cycles) Temperature: 30~43℃ cycling temperature exposure Humidity: 14~44% Unit is operational during test.	Pass
High Temperature Storage and Transit (Basic Hot)	Method 501.7-Procedure I	Table 501.7-II.Procedure I High temperature cycles, climatic category A2 - Basic Hot Duration: 7 day exposure (7 X 24 hr. cycles) Temperature:30℃~63℃ Humidity: 5~44% Unit is non-operational during test.	Pass
Low Temperature Storage and Transit (Basic climatic)	Method 502.7- Procedure I	Table IX. Basic climatic_C1,Procedure I, Low temperature cycles, Duration:7 day exposure (7 X 24 hr. cycles) Temperature: -25~ -33℃ Unit is non-operational during test.	Pass
Low Temperature Operational (Basic climatic)	Method 502.7- Procedure II	Table IX. Basic climatic_C1,Procedure II. Low temperature cycles, Duration: 3 day exposure (3 X 24 hr. cycles) Temperature: -21~ - 32℃ Unit is operational during test.	Pass
Low Temperature Storage and Transit (Cold climatic)	Method 502.7- Procedure I	Table XI. Cold climatic_C2, Procedure I, Low temperature cycles, Duration:7 day exposure (7 X 24 hr. cycles) Non-operational -37~ -46℃ (-50℉)	Pass
Low Temperature Operational (Cold climatic)	Method 502.7- Procedure II	Table XI. Cold climatic_C2,Procedure II.Low temperature cycles, Duration: 3 day exposure (3 X 24 hr. cycles) Operational -37~ -46℃ (-50℉)	Pass
Temperature Shock	Method 503.7- Procedure I-C	Temperature: -51° C to 71° C Duration: 1Hour / Three cycles (Non-operational)	Pass
Humidity Aggravated Cycle	Method 507.6- Procedure II	Cyclic per Figure 507.6-7 (Aggravated Cycle) Duration:10 Days Temperature: (30℃ and 60℃) Humidity: 95% RH, constant Unit is non-operational during test.	Pass
Sand and Dust	Method 510.7- Procedure II	Particle density:1.2g/m^3 Air velocity:28m/s Operating temperature of 60°C	Pass
Explosive Atmosphere	Method 511.7- Procedure I	Operation in an explosive atmosphere.	Pass
Vibration	Method 514.8- Procedure I (Table 514.8C-VI.)	Category - 4 - Composite wheeled vehicle vibration exposure. Non-operational Frequency Range: (5-500)Hz Orientation: X axis/Y axis/Z axis test time 40min/axis, total 120 min	Pass
	Method 514.8- Procedure I (Table 514.8C-IV.)	Category 4 – Composite two-wheeled trailer vibration exposure. Non-operational Frequency Range: (5-500)Hz Orientation: X axis/Y axis/Z axis test time 32min/axis, total 96 min	Pass
	Method 514.8- Procedure I (Table 514.8C-I.)	Category 4 - Common carrier Operational Frequency Range: (5-500)Hz Orientation: X axis/Y axis/Z axis test time 60min/axis, total 3 hours	Pass
Shock	Method 516.8- Procedure VI	Bench Handling Drop Height : 100 mm Drop Times : 4 times Operational	Pass
	Method 516.8- Procedure IV	Transit Drop Packaged Drop Height : 122cm Drop Times : 26 times	Pass
	Method 516.8- Procedure I	Functional Shock Operational 3 shocks/axis/direction for a total of 18 shocks; Acceleration: 40 Gs peak Pulse Width: 11 ms Operational, Unpackaged	Pass

Shock	Method 516.8- Procedure II	Transportation shock- On road (5000Km) Amplitude : 5.1~ 7.6 G-Pk , Number of Shocks: 3 ~ 42 times (total 66times) Pulse Duration: 11ms Terminal Peak Sawtooth Non-operational/ Package	Pass
	Method 516.8- Procedure III	Fragility Non-operational 3 shocks/axis/direction for a total of 54 shocks; Acceleration:30~50 Gs peak, Pulse Width: 16ms~26ms Orientation: X axis/Y axis/Z axis	Pass
Freeze / Thaw	Method 524.1- Procedure III	Rapid Temperature Change Temperature: (30℃ and -10℃) Humidity: 95% RH Duration: 1Hour： Three cycles	Pass
Mechanical Vibrations of Shipboard Equipment	Method 528.1- Procedure1 (Type 1)	Environmental Vibration Frequency Range: 4~33 Hz Duration: 2Hours Non-operational	Pass

1. The ASUS testing regimen is not a guarantee of future performance under the specified test conditions. Damage occurring under these test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional cover is available with the ASUS Accidental Damage Protection care pack.

2. MIL-STD-810 testing is conducted on selected ASUS products only. These tests are not intended to and do not demonstrate fitness for US Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under the specified test conditions. Damage occurring under t hese test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional cover is available with the ASUS