



ASUS MIL-STD 810H Test Report - B9403CVAR

Test Category	Test Method	MIL-STD-810H Test Parameters	Test Result
		Test Pressure: Equivalent to cabin altitude of 40,000ft	
Altitude Storage/	Method 500.6-Procedure I	Temperature: -20℃	Pass
Air Transport	Wethod 500.0 Trocedure t	Duration:12 hour	
		Unit is non-operational during test.	
		Test Pressure: Equivalent to cabin altitude of 15,000ft	
Altitude	Method 500.6-Procedure II	Temperature: 5°C and 40°C	Pass
Operation/Air Carriage	Wethod 300.0-1 rocedure ii	Duration: 12 hour (5°C) and 12 hour (40°C)	. 455
		Unit is operational during test.	
		Duration: 3 day exposure (3 X 24 hr. cycles)	
High Temperature	Method 501.7-Procedure II (A1)	Temperature: 32~49 ℃ cycling temperature exposure	Pass
Operational (Hot Dry)		Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry	
		Unit is operational during test.	
	Method 501.7-Procedure I (A1)	Duration: 7 day exposure (7 X 24 hr. cycles)	
High Temperature		Temperature: 33~71 ℃ cycling temperature exposure	Pass
Storage and Transit (Hot Dry)		Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry	
		Unit is non-operational during test.	
	Method 501.7-Procedure II (A2)	Duration: 3 day exposure (3 X 24 hr. cycles)	
High Temperature		Temperature: 30~43 ℃ cycling temperature exposure	-
Operational (Basic Hot)		Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot	Pass
		Humidity: 14~44%	
		Unit is operational during test.	
	Method 501.7-Procedure I (A2)	Duration: 7 day exposure (7 X 24 hr. cycles)	
High Temperature		Temperature: 30~63 ℃ cycling temperature exposure	_
Storage and Transit (Basic Hot)		Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot	Pass
		Humidity: 5–44%	
		Unit is non-operational during test.	
		Duration: 7 day exposure (7 X 24 hr. cycles)	
Low Temperature	Method 502.7- Procedure I (C1)	Temperature: -25~ -33 °C	Pass
Storage and Transit (Basic climatic)		Low temperature cycles, Table IX. Basic climatic_C1	. 455
		Unit is non-operational during test.	
	Method 502.7- Procedure II (C1)	Duration: 3 day exposure (3 X 24 hr. cycles)	
Low Temperature		Temperature: -21~ - 32°C	Pass
Operational (Basic climatic)		Low temperature cycles, Table IX. Basic climatic_C1	
		Unit is operational during test.	
	Method 502.7- Procedure I (C2)	Duration: 7 day exposure (7 X 24 hr. cycles)	
Low Temperature		Temperature: -37~ -46 °C	
Storage and Transit (Cold climatic)		Low temperature cycles, Table XI. Cold climatic_C2	Pass
		Wind speed less than 5m/s(11mph)	
		Unit is non-operational during test.	
		Duration: 3 day exposure (3 X 24 hr. cycles)	
Low Temperature		Temperature: -37~ -46℃	5
Operational (Cold climatic)	Method 502.7- Procedure II (C2)	Low temperature cycles, Table XI. Cold climatic_C2	Pass
		Wind speed less than 5m/s(11mph)	
		Unit is operational during test.	
	Method 503.7- Procedure I-C	Duration: 1 Hour / Three cycles	5
Temperature Shock		Temperature: -51 to 71°C	Pass
		Unit is non-operational during test.	
	Method 505.7- Procedure I	Cycle A1. 0 ~ 1120 W/m2 at (280 ~ 3000) nm, 3 cycles	_
Solar Radiation (Sunshine)		Temperature: 32°C − 49°C	Pass
		Unit is non-operational during test.	
	Method 507.6- Procedure II	Duration:10 Days	
Humidity Aggravated Cycle		Temperature: 30°C and 60°C	Pass
		Humidity: 95% RH, constant	. 433
		Unit is non-operational during test.	
Fungus	Method 508.8	5 fungus, 30 ℃, 95%RH	E
		28 days, Non-Operating	Pass
	Method 510.7- Procedure I	Particle density:10 +/- 7 g/m^3	Pass
		Air velocity:300 to 1750 ft/min	L.Q22
		Operating temperature of 60°C	

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		Particle density:1.1 +/- 0.3g/m^3	
	Method 510.7- Procedure II	Air velocity:28m/s	Pass
		Operating temperature of 60°C	
Explosive Atmosphere	Method 511.7- Procedure I	Operation in an explosive atmosphere.	Pass
	Method 514.8- Procedure I (Table514.8C-I)	Frequency 5-500Hz, Vertical rms = 1.08 g	Pass
		Transverse rms = 0.21g, Longitudinal rms = 0.76g	
		Test Time: 60 minutes per axis (US highway truck vibration exposure)	
	Method 514.8- Procedure I (Table514.8C-IV)	Frequency 5-500Hz, Vertical rms = 3.98 g	Pass
Vibration		Transverse rms = 1.22g, Longitudinal rms = 2.52g	
		Test Time: 32 minutes per axis	
	Method 514.8- Procedure I (Table514.8C-VII)	Frequency 5-500Hz, Vertical rms = 2.24 g	Pass
		Transverse rms = 1.45g, Longitudinal rms = 1.32g	
		Test Time: 40 minutes per axis	
	Method 516.8- Procedure I	Functional Shock	Pass
		Operational 3 shocks/axis/direction for a total of 18 shocks; 40 Gs peak, 11 ms	
	Method 516.8- Procedure II	Transportation shock- On road (5000Km)	Pass
		Amplitude: 5.1 – 7.6 G-Pk, Number of Shocks: 3 ~ 42 times	
		Pulse Duration: 11ms	
		Terminal Peak Sawtooth	
		Non-OP/ Package	
	Method 516.8- Procedure III	Fragility	
Shock		Non-operational 3 shocks/axis/direction for a total of 18 shocks	Pass
		30~50 Gs peak, Trapezoidal pulse(772cm/s, 10G/each stage)	
	Method 516.8- Procedure IV	Transit Drop (Package)/122cm/26 Drop	Pass
	Method 516.8- Procedure V	Crash Hazard Shock Test	Pass
		2 shocks/axis/direction for a total of 12 shocks	
		75 Gs peak, 6 ms/Terminal Peak Sawtooth/unpackage nop	
	Method 516.8- Procedure VI	Bench Handling	Pass
		(Drop Height : 100 mm)	
		Unit is operational during test.	
	Method 524.1- Procedure III	Rapid Temperature Change	
F /Th		Temperature: (30 °C and -10 °C)	Door
Freeze/Thaw		Humidity: 95% RH	Pass
		Dwell: 1Hour; Three cycles	
Mechanical Vibrations of Shipboard Equipment	Method 528.1- Procedure1 (Type 1)	Environmental Vibration	D
		4~33 Hz/ 2Hours	Pass

^The testing regime includes the requirements of military-grade standards, and varies depending on device. MIL-STD-810 testing is conducted on selected ASUS products only. Note that the MIL-STD-810 testing helps to ensure the quality of ASUS products but does not indicate a particular fitness for military use. The test is performed under laboratory conditions. Any damage caused by attempts to replicate these test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional coverage is available with ASUS Premium Care.