

## FUJITSU STYLISTIC Q550 ENVIRONMENTAL MIL-STD-810G TESTING SUMMARY

|                          |   |   |
|--------------------------|---|---|
| Equipment tested         | Fujitsu Stylistic Q550  |   |
| Independent test company | Quanta Laboratories, 3199 De La Cruz Boulevard,<br>Santa Clara, CA95054<br><a href="http://www.quantalabs.com/">http://www.quantalabs.com/</a>                        | American Association for Laboratory Accreditation: certificate #2454.01<br>Valid to August 31, 2012 |
| Independent test company | ENVIRON LABORATORIES LLC, 9725 Girard Ave,<br>South Minneapolis, MN 55431-2621<br><a href="http://www.vironlab.com/index.html">http://www.vironlab.com/index.html</a> | American Association for Laboratory Accreditation: certificate #1719.01<br>Valid to August31, 2011  |



FUJITSU STYLISTIC Q550

**Notes:** All environmental testing listed in the table below was performed and reported independently by accredited testing companies listed above.

Documented MIL-STD-810G testing guidelines were followed, a summary listing of the test presented in the following table.

## STYLISTIC Q550 MIL-STD-810G TESTING SUMMARY TABLE

| # | TEST LISTING         | TEST METHOD                                       | DESCRIPTION/PARAMETERS   | RESULT <sup>1,2</sup> |
|---|----------------------|---|--|-----------------------|
| 1 | Altitude             | MIL-STD-810G<br>Method 500.5<br>Procedures I & II | Storage/Air Transport test at 30,000 ft, duration 1 hour, unit is non-operational<br>Operational/Air Carriage test at 15,000 ft, duration 1 hour, unit is operational  | Pass                  |
| 2 | Low temperature      | MIL-STD-810G<br>Method 502.5<br>Procedures I & II | Non-operational test at -30°C, duration 7 hours, unit is non-operational<br>Operational test at -20°C, duration 5 hours, unit is operational   | Pass                  |
| 3 | High temperature     | MIL-STD-810G<br>Method 501.5<br>Procedures I & II | Non-operational test at +70°C duration 7 days, induced conditions cycle, unit is non-operational<br>Operational test at +60°C duration 3 days, induced conditions cycle, unit is operational   | Pass                  |
| 4 | Humidity             | MIL-STD-810G<br>Method 507.5<br>Procedure II      | Aggravated 0% -95% humidity<br>Temperature cycled between 30°C and 60°C<br>Test duration: ten 24-hours cycles. Relative humidity maintained at 95%<br>Unit is non-operational, functional test after 5 <sup>th</sup> and 10 <sup>th</sup> cycles   | Pass                  |
| 5 | Functional shock     | MIL-STD-810G<br>Method 516.6<br>Procedure I       | Non-operational test - 40G, 11 ms, saw-tooth pulse configuration, 3 shocks, ± per axis, unit is non-operational<br>Operational test - 20G, 11 ms, saw-tooth pulse configuration, 3 shocks, ± per axis, unit is operational   | Pass                  |
| 6 | Vibration, integrity | MIL-STD-810G<br>Method 514.6<br>Category 24       | Non-operational test, Minimum integrity test 20-2000Hz; 20-1000 Hz at 0.04G <sup>2</sup> /Hz, 1000 2000Hz at 6dB, overall 7.7G RMS; test profile see in figure 514.6E-1. Test duration: 1 hours x 3 axis. Unit is non-operational  | Pass                  |
| 7 | Vehicle Vibration    | MIL-STD-810G<br>Method 514.6<br>Category 20       | Operational test - Ground vehicle, US Highways 1,000 miles of transportation, test profile see figure 514.6C-I and table 514.6C-II. Test duration: 1 hours x 3 axis. Unit is operational.  | Pass                  |
| 8 | Blowing Dust         | MIL-STD-810G<br>Method 510.5<br>Procedure I       | Non-operational test duration 6 hours, dust density 10±7 g/m <sup>3</sup> , air velocity 8.9m/s, 140 mesh silica flower at 20°C ambient. Unit is non-operational<br>Operational test duration 6 hours, dust density 10±7 g/m <sup>3</sup> , air velocity 8.9m/s, 140 mesh silica flower at 35°C ambient. Unit is operational | Pass                  |
| 9 | Transit Drop         | MIL-STD-810G<br>Method 516.6                      | Non-operational test, transit drop from 24" height on 2" plywood. One drop each on 4 corners, 8 edges, 6 faces.  | Refer footnote*       |

<sup>1</sup>Pass for Operational test indicates that unit remained operational during the entirety of the test. After the test ran and verified one complete pass of Fujitsu proprietary diagnostic software.

<sup>2</sup>Pass for Non-operational test indicates that after the test unit powered, booted to Windows OS, ran and verified one complete pass of Fujitsu proprietary diagnostic software.

\*Test unit passed functional performance test after each drop. Some mechanical damage was observed.

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