



National
Technical
Systems

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February 4, 2008

GETAC
20762 Linear Lane
Lake Forest, California 92630
Purchase Order Number 01090701

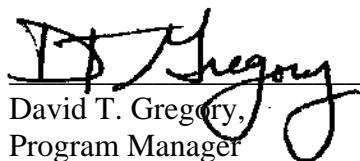
- A. TEST: Salt Fog
- B. TEST ITEM: One (1) 14.1" Rugged Laptop Computer
M/N M230, S/N NTS Assigned NTS-SF2
- C. SPECIFICATIONS:
1. Quick Quote on e-mail dated December 20, 2007
 2. MIL-STD-810F, Method 509.4
 3. ANSI NCSL Z540-1
 4. ISO 17025:2005
- D. RESULTS:

This is to certify that the 14.1" Rugged Laptop Computer was subjected to the Salt Fog Test according to the above specifications.

GETAC personnel performed all post functional testing and final inspection. GETAC reported a passing functional test with a successful power on/off and boot to the Microsoft Windows system. No visible damage was noted resulting from the salt fog exposure. The 14.1" Rugged Laptop Computer was returned to GETAC for post tests and final evaluation.

Test data, an equipment list, and photographs are attached.

NATIONAL TECHNICAL SYSTEMS


David T. Gregory,
Program Manager


Betty Matteson,
Quality Assurance Manager



SALT SPRAY TEST

CUSTOMER:	<u>G-ETAC</u>	MJO:	<u>875-6433</u>
TEST ITEM:	<u>LAPTOP COMPUTER</u>	DATE:	<u>JAN 29, 2008</u>
PART NUMBER:	<u>M230</u>	S/N:	<u>NTS-SF2</u>
SPECIFICATION:	<u>QUICK QUOTE DATED 12/20/2007</u>	PARAGRAPH:	<u> </u>
TEMP	<u>AMB</u> °F	RH	<u>AMB</u> % <input type="checkbox"/> PASSED <input type="checkbox"/> DEVIATION <input type="checkbox"/> NA

Preparation of Test Item (s):	<u>BY CUSTOMER</u>		
Support Method:	<u>PLASTIC BOX</u>		
Orientation of Test Item(s):	<u>LAPTOP IS OPEN</u>		
Solution: Salt	<u>5</u> % H ₂ O <u>95</u> (by weight)	pH of Solution:	<u>6.8</u>
at	<u>77</u> °F	Specific Gravity of Solution:	<u>1.031</u> @ <u>77</u> °F
Start Date and Time:	<u>1/29/08 0925</u>	Nozzle Pressure:	<u>13 PSI</u>
Chamber Temperature:	<u>95</u> °F	Water Column Temperature:	<u>101</u> °F

ELAPSED TIME (Hours)	COLLECTED SOLUTION (Volume)/80 ² cm (ml/hr)		COLLECTED pH VALUE	SOLUTION SPECIFIC GRAVITY	CHAMBER TEMPERATURE (°F)
	COLLECTOR 1	COLLECTOR 2			
24	1.30	1.28	6.8	1.029	95
24 (48)	PLACE AT	AMBIENT	—	—	—
24	1.29	1.29	6.8	1.029	95
24 (48)	PLACE AT	AMBIENT	—	—	—

Stop Date and Time:	<u>2/2/08 0925</u>	Test Duration (hours):	<u>96</u>
Interruptions (explain):	<u>TO PLACE AT AMBIENT</u>		
Results of Test:	<u>THERE WAS NO VISIBLE DAMAGE. POST FUNCTIONAL - THE LAPTOP BOOTED UP TO MICROSOFT WINDOWS SUCCESSFULLY</u>		
Photograph(s) Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

TESTED BY:	<u>R. Murphy</u>	DATE:	<u>FEB 2, 2008</u>
ENGINEER:	<u>DT Morgan</u>	NTS QA:	GOVT QAR:

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**EQUIPMENT LIST**

<u>Description</u>	<u>Apparatus</u>	<u>Calibration</u>
<u>SALT FOG</u>	Bemco Salt Spray Chamber Model N/A, S/N NSN 48" x 28" x 32" Ambient to 140°F, $\pm 1\%$ NTS Control No. FL-1823	Not Required External Monitor
	Acco Wilson Instruments Pressure Gauge Model 0 to 60 PSI, S/N NSN NTS Control No. FL-2749	6 months Due 2-9-08
	Omega Temperature Indicator, Model DP2000-T2, S/N 7160574, + 2 °F NTS Control No. FL-4336	6 months Due 7-14-08



Salt Fog Exposure (Typical)



Salt Fog Drying Period (Typical)



Post Test (S/N NTS Assigned NTS-SF2)



Post Test (S/N NTS Assigned NTS-SF2)



Post Test (S/N NTS Assigned NTS-SF2)



Post Test (S/N NTS Assigned NTS-SF2)



Post Test (S/N NTS Assigned NTS-SF2)