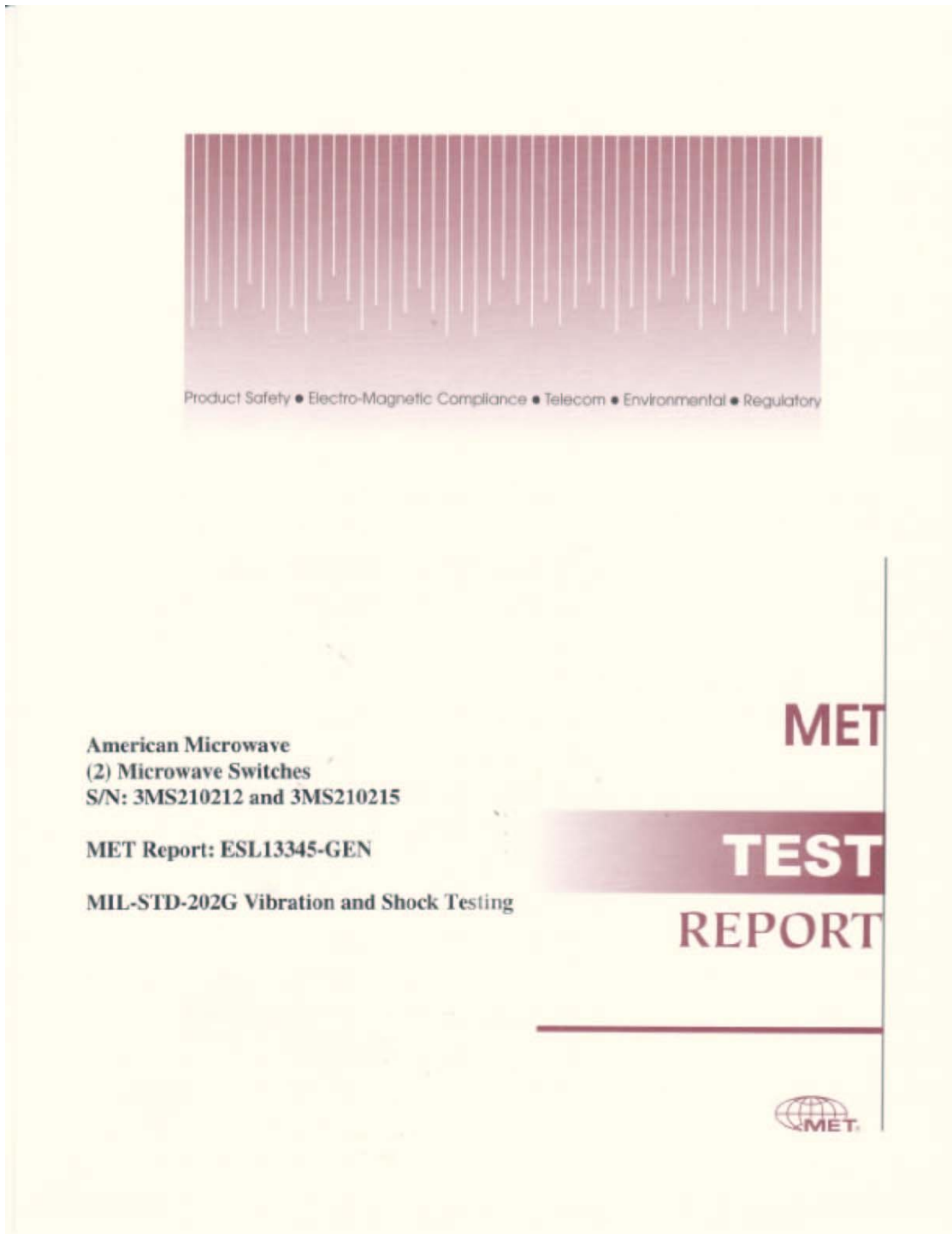


ENVIRONMENTAL TEST DATA

**VIBRATION AND MECHANICAL SHOCK
AS PERFORMED BY
MET LABORATORIES, INC.
MET TEST REPORT No: ESL13345-GEN**

AND

**BURN-IN AND TEMPERATURE CYCLING
RECORDER CHARTS
AS PERFORMED BY
AMERICAN MICROWAVE CORPORATION**





MET Laboratories, Inc. Safety Certification - EMI - Telecom - Environmental Simulation - NEBS
914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21250-3432 • PHONE (410) 354-3000 • FAX (410) 354-3313



February 12, 2003

Mr. Eric Schaub
American Microwave
7311-G Grove Road
Frederick, MD 21701

Reference: MIL-STD-202G Vibration and Shock Testing of two microwave switches, S/N:
3MS210212 & 3MS210215

Dear Mr. Schaub,

Enclosed you will find the data and photographs obtained from the testing performed by MET Laboratories, Inc on the two microwave switches, S/N: 3MS210212 & 3MS210215 on February 4 through February 6, 2003. The two microwave switches, S/N: 3MS210212 & 3MS210215 were subjected to a sinusoidal vibration test, in accordance with MIL-STD-202G, Method 204, Condition B and American Microwave Purchase Order Number 30200030. The visual inspection of the two microwave switches, S/N: 3MS210212 & 3MS210215 revealed no anomalies. The two microwave switches were also subjected to a half sine shock test, in accordance with MIL-STD-202G, Method 213B, Condition B and American Microwave Purchase Order Number 30200030. The visual inspection of the two microwave switches, S/N: 3MS210212 & 3MS210215 revealed no anomalies. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology. MET Laboratories Environmental Simulation Laboratory is accredited by A2LA and NVLAP.

If you have any questions about the results of the testing or if MET can be of further service to you in any way, please feel free to call us. Thank you for using MET's testing services.

Sincerely,

MET LABORATORIES, INC.

Bryan Windsor, Project Engineer
Environmental Simulation Laboratory

Enclosures
(\American Microwave\13345\ESL13345-GEN.wpd)

The Nation's First Licensed Nationally Recognized Testing Laboratory



Photograph 1: View Vertical Axis Vibration Test set-up



Photograph 2: View of Longitudinal Axis Vibration Test set-up



Photograph 3: View of Transverse Axis Vibration Test set-up

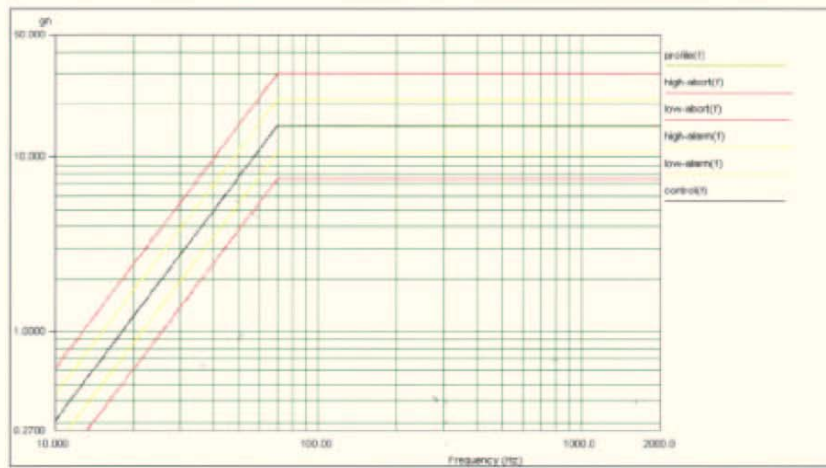


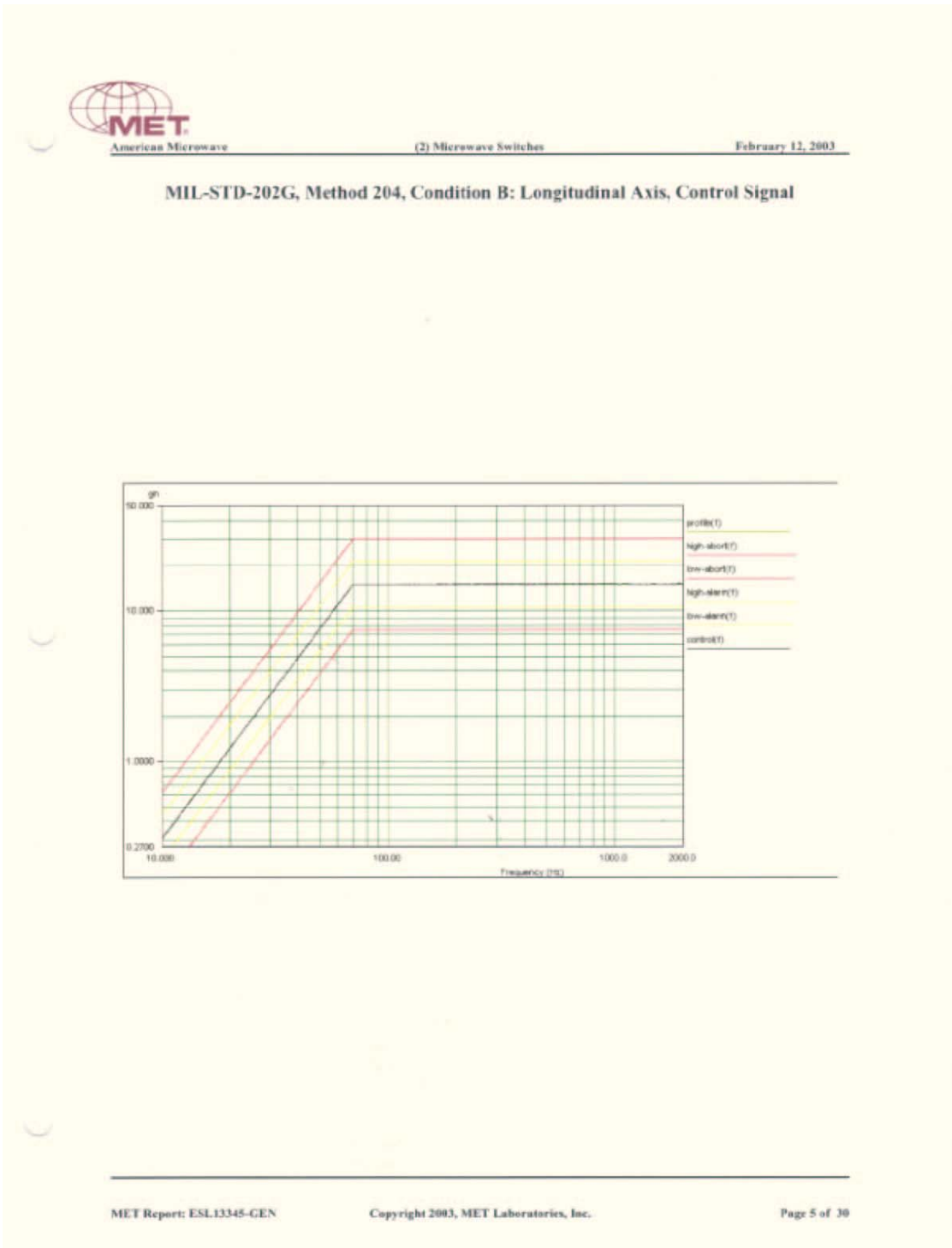
American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 204, Condition B: Vertical Axis, Control Signal





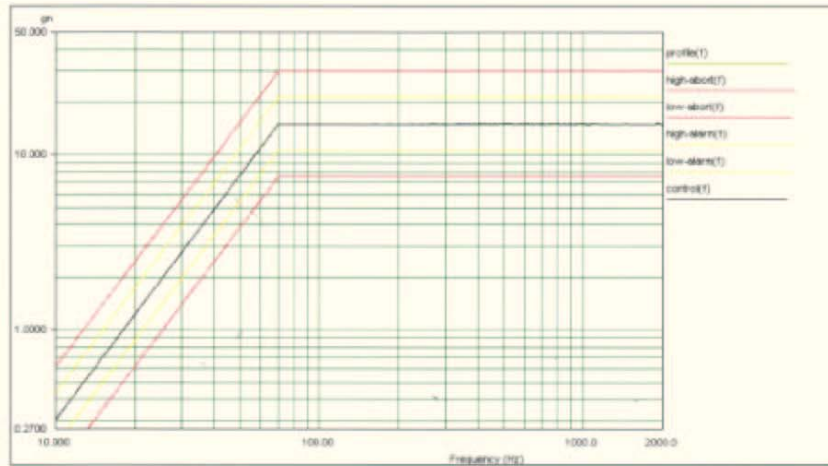


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 204, Condition B: Transverse Axis, Control Signal





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(2) Microwave Switches

February 12, 2003



Photograph 4: View Positive Vertical Axis Shock Test set-up



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(2) Microwave Switches

February 12, 2003



Photograph 5: View Negative Vertical Axis Shock Test set-up



Photograph 6: View of Positive Longitudinal Axis Shock
Test set-up



(2) Microwave Switches

February 12, 2003



Photograph 7: View of Negative Longitudinal Axis Shock Test set-up



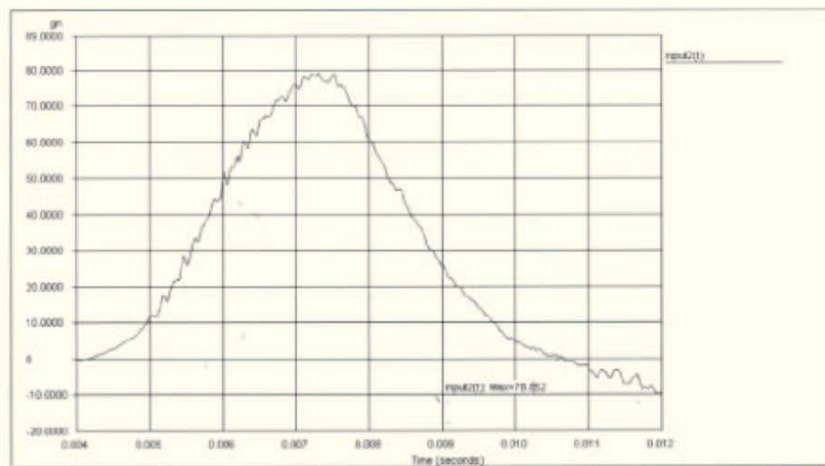
Photograph 8: View of Positive Transverse Axis Shock
Test set-up



Photograph 9: View of Negative Transverse Axis Shock
Test set-up



MIL-STD-202G, Method 213B, Condition B: Vertical Axis, Positive Pulse 1



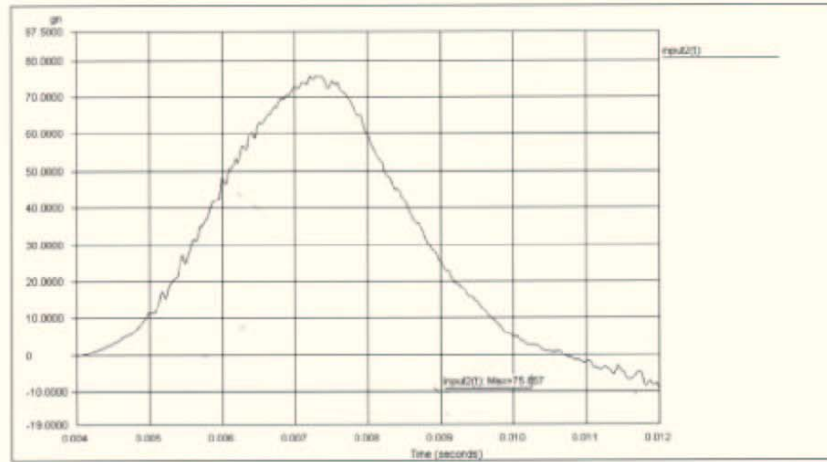


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Vertical Axis, Positive Pulse 2



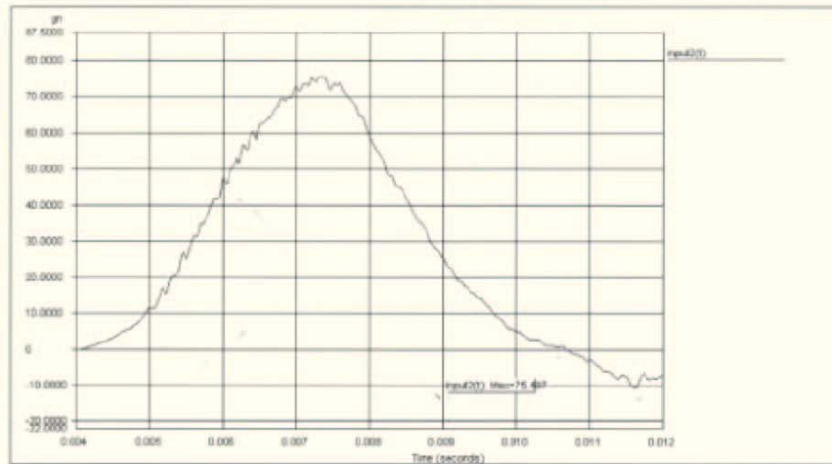


American Microwave

(2) Microwave Switches

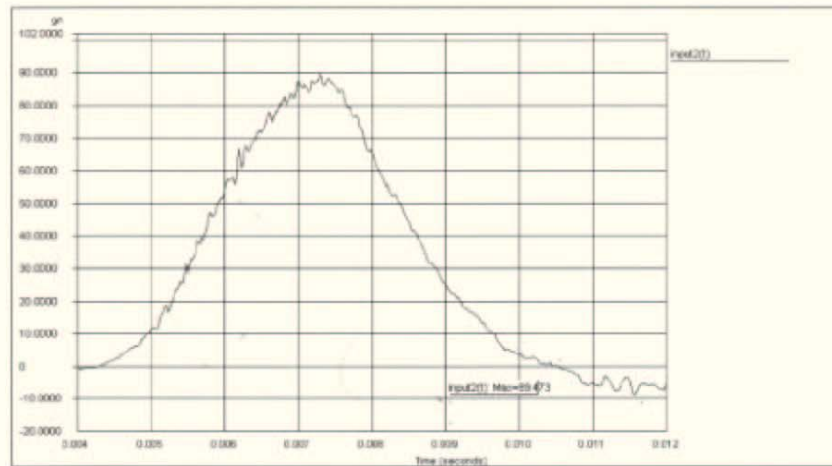
February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Vertical Axis, Positive Pulse 3



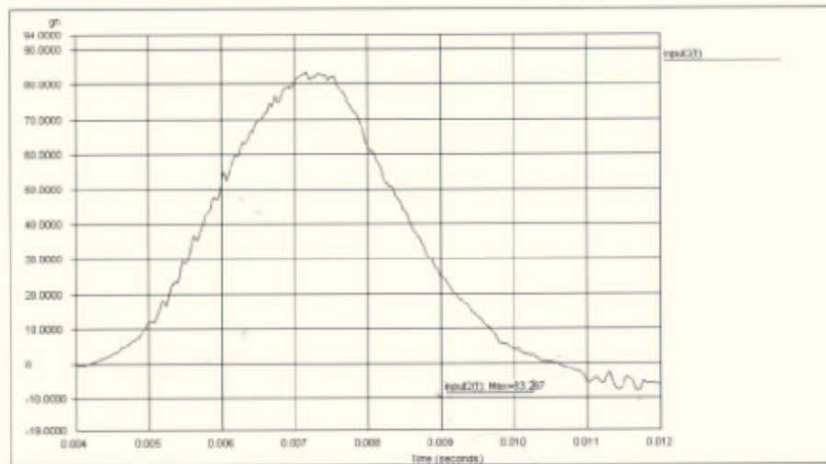


MIL-STD-202G, Method 213B, Condition B: Vertical Axis, Negative Pulse 1





MIL-STD-202G, Method 213B, Condition B: Vertical Axis, Negative Pulse 2



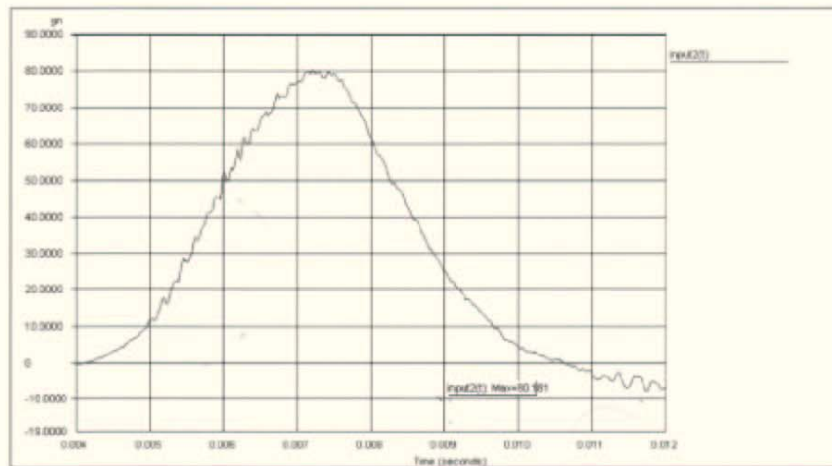


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Vertical Axis, Negative Pulse 3



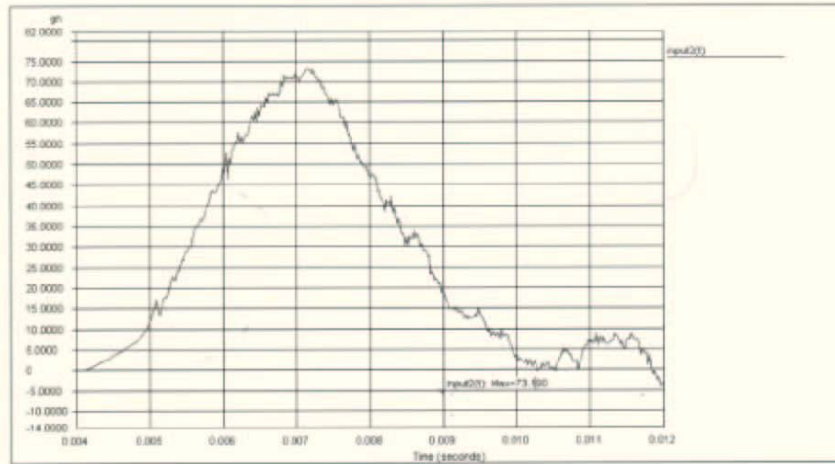


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Longitudinal Axis, Positive Pulse 1



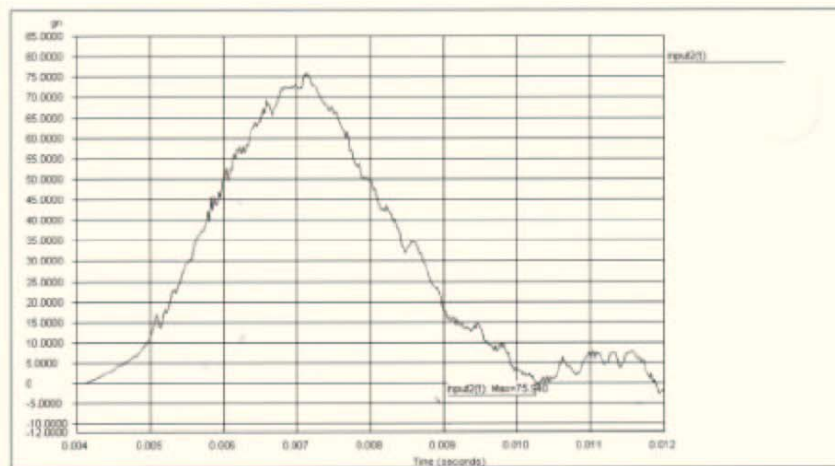


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Longitudinal Axis, Positive Pulse 2



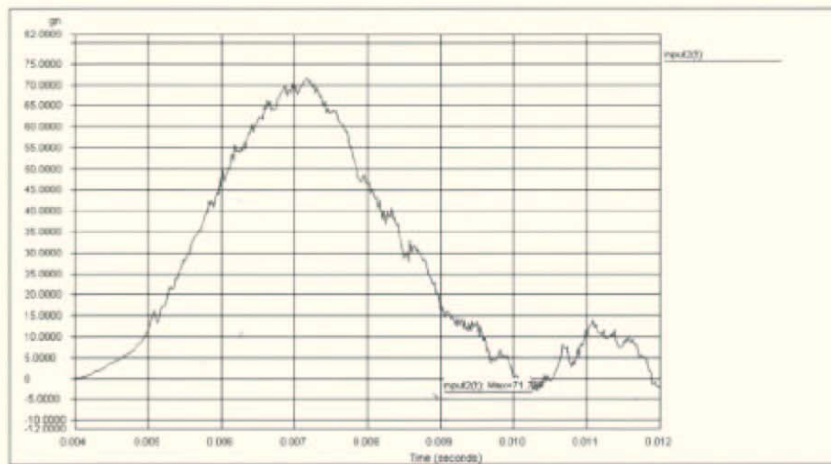


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Longitudinal Axis, Positive Pulse 3



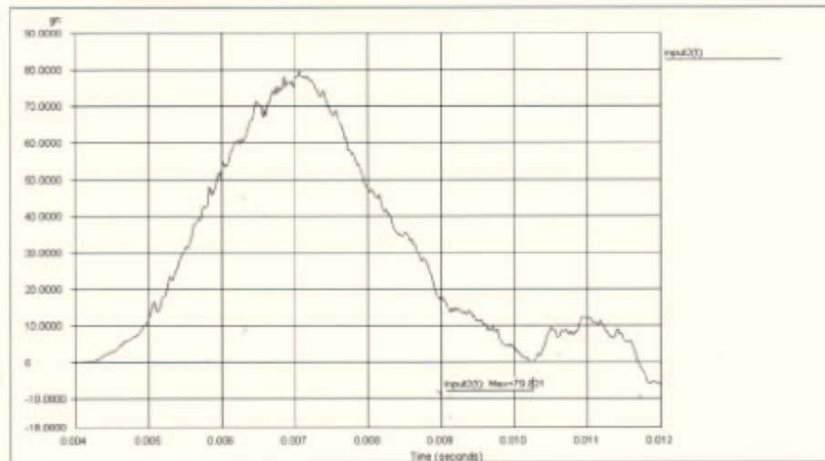


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Longitudinal Axis, Negative Pulse 1



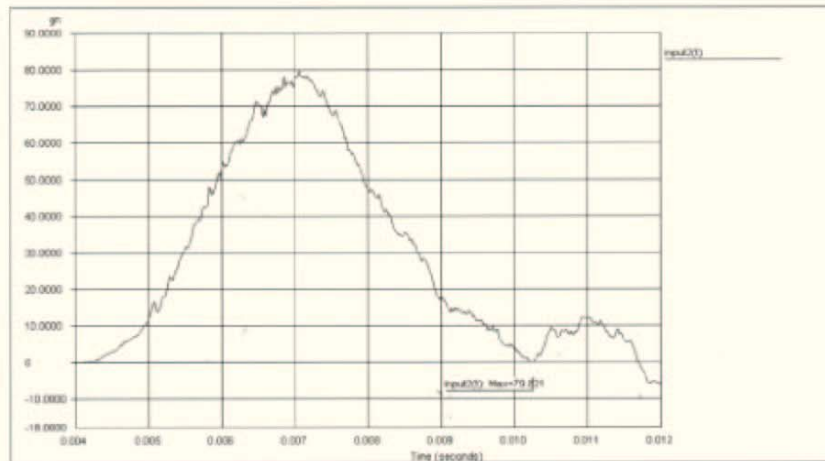


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Longitudinal Axis, Negative Pulse 1



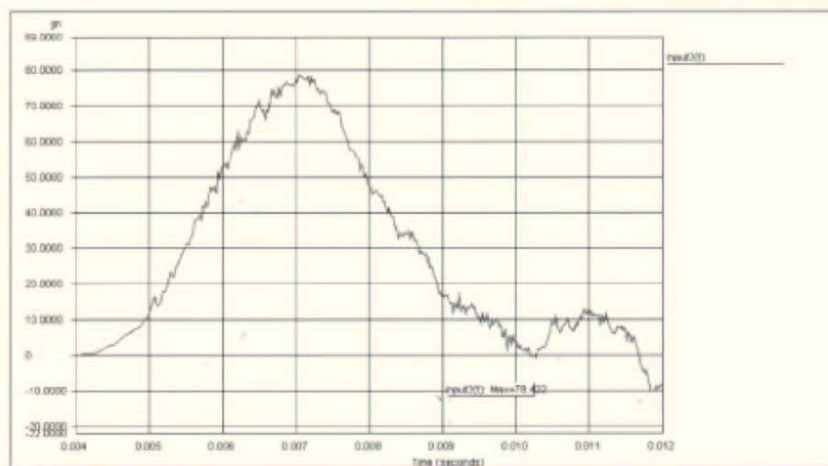


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(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Longitudinal Axis, Negative Pulse 2





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(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Longitudinal Axis, Negative Pulse 3



American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Transverse Axis, Positive Pulse 2

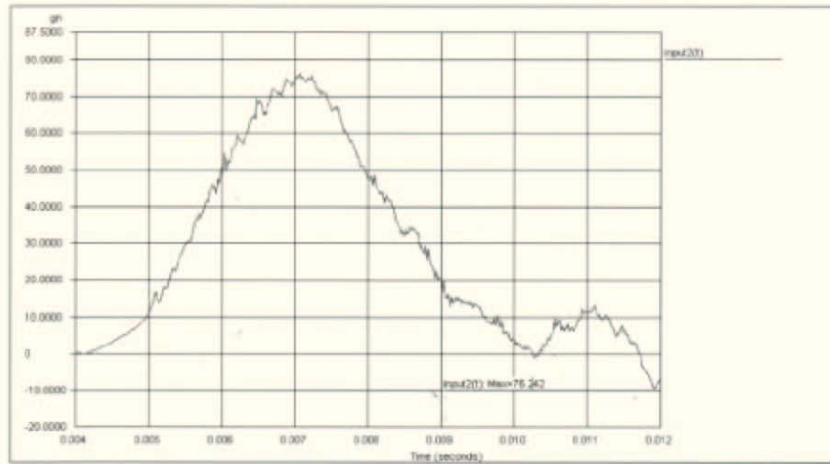


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Transverse Axis, Positive Pulse 1



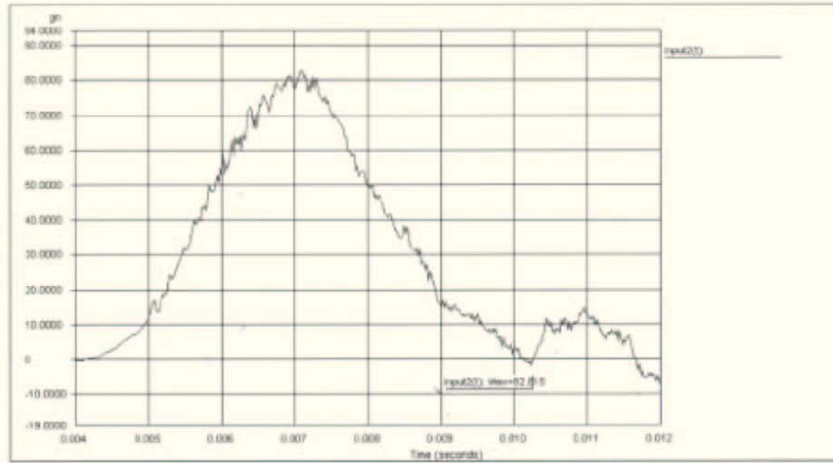


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Transverse Axis, Positive Pulse 3



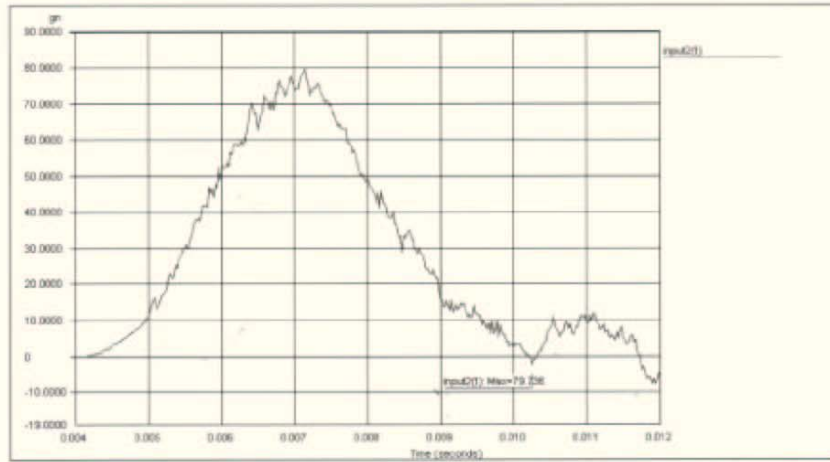


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Transverse Axis, Negative Pulse 1



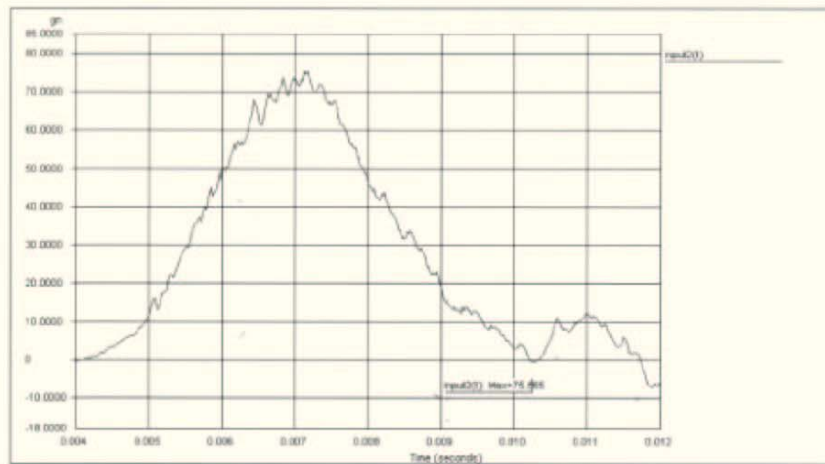


American Microwave

(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Transverse Axis, Negative Pulse 2



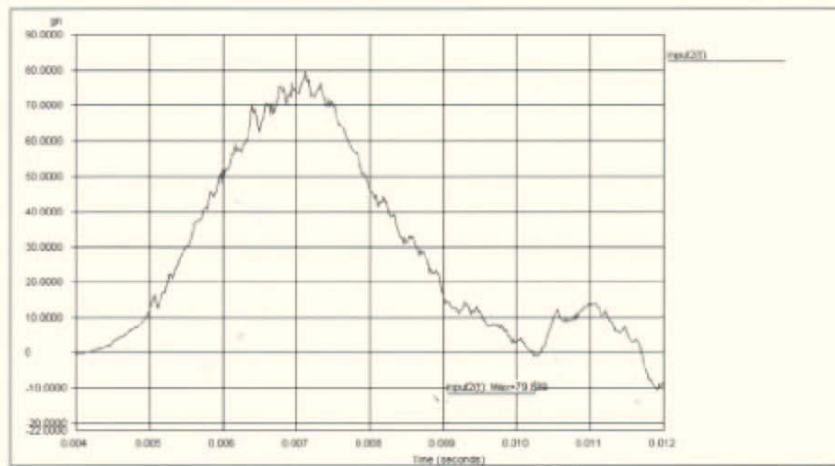


American Microwave

(2) Microwave Switches

February 11, 2003

MIL-STD-202G, Method 213B, Condition B: Transverse Axis, Negative Pulse 3





American Microwave

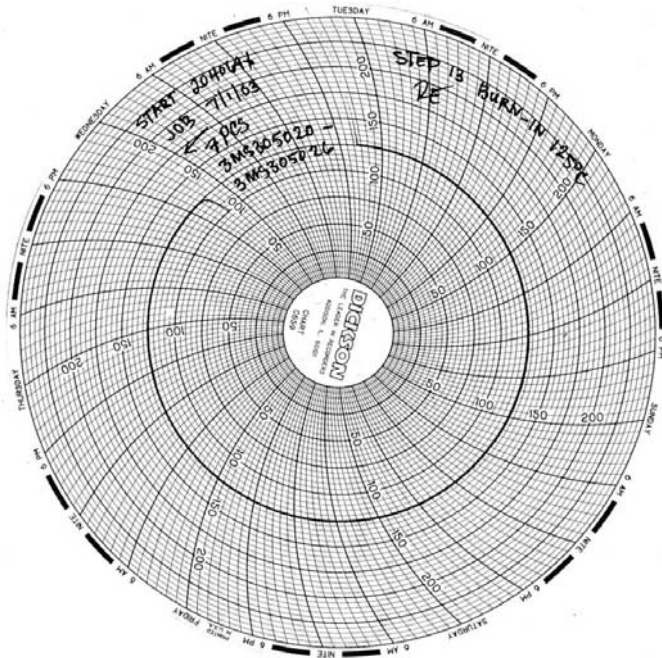
(2) Microwave Switches

February 12, 2003

MIL-STD-202G, Method 213B, Condition B: Transverse Axis, Positive Pulse 2



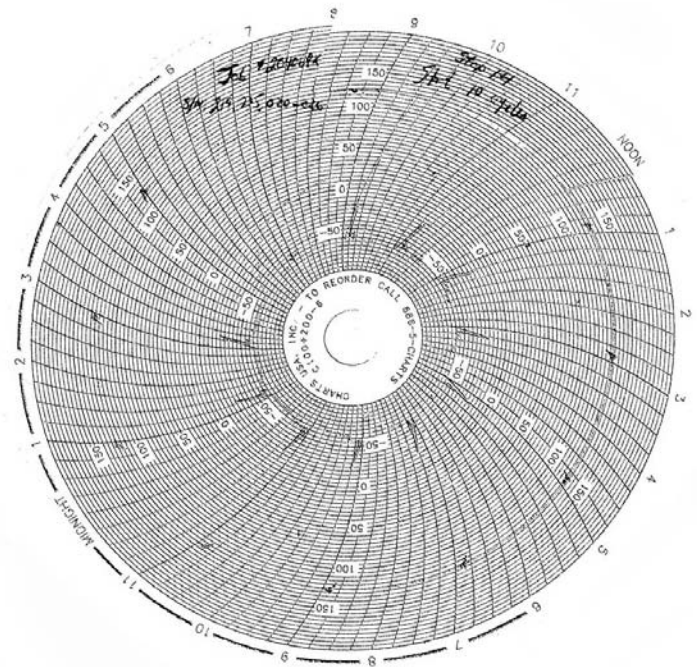
ENVIRONMENTAL TEST DATA
BURN-IN AND TEMPERATURE CYCLING RECORDER



← BURN-IN

MIL-STD-883, METHOD 1015B, T_c 125°C
BURN-IN AT 125°C FOR 24 HOURS.
CHART SHOWS 10:00AM TUESDAY
JULY 1, 2003 TO 10:00AM WEDNESDAY
JULY 2, 2003.
(Units were further burned-in for a total of 240 hours)

TEMPERATURE CYCLING →
MIL-STD-883, METHOD 1010, CONDITION
B1 (10 CYCLES). -65°C TO +125°C



ALL TEMPERATURE TESTING, BURN-IN AND CYCLING WERE COMPLETED AT AMC.

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Website: <http://www.americanmicrowavecorp.com>