

KING DESIGN INDUSTRIAL CO., LTD.

4F, NO. 3, Lane 270, Pei Shen Road Sec. 3,

Shen Keng Dist., New Taipei City, 222, Taiwan, R.O.C

TEL: 886-2-2662-5100 FAX: 886-2-2662-3094

VIBRATION TEST LABORATORY<http://www.kdi.tw><http://www.vibration.com.tw>

E-mail:service@kdi.tw

TESTING / INSPECTION REPORT

REPORT NO : VT-150806-1

COMPANY : AAEON Technology Inc.

ADDRESS : 5F, No.135, Lane 235, Pao Chiao Rd.

Hsin-Tien City, Taipei, Taiwan, R. O. C.

TEL : 886-2-8919-1234

FAX : 886-2-8919-1049

SPECIMEN : RTC-600A

DATE OF RECEIVED : 2015/08/05

DATE OF TESTED : 2015/08/06

TEST / INSPECTION ITEMS : Vibration Test

REMARKS :

- The laboratory is accredited by ISO/IEC 17025 General Requirements for the Competence of Calibration and Testing Laboratory.
- The results only apply to the device under test.
- This report is 15 pages, and no part of it may be abstracted or reproduced.

Test Engineer :

Approval Signatory :

2015.8.10

David Lee

Laboratory Head :

Hsin Zai Chang

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TESTING EQUIPMENT :

Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,
S/N : KDS11054986
Controller : VCS-913⁺, S/N : 1312384
Control Accelerometer : Wilcoxon Research WR-777, S/N : 4207

TEST ENVIRONMENT :

Temperature : 26°C (25±10°C)
Relative Humidity : 67 %RH (50±25% RH)

SPECIMEN :

Model : RTC-600A
Quantity : 1 unit

TEST SPECIFICATION (1) :

Reference to ASTM D4169-99

Random vibration test (Operating)

Frequency : 1 Hz to 200 Hz
Acceleration : 0.52 g rms
P.S.D. : 0.00005 g²/Hz (1 Hz)
: 0.01 g²/Hz (4 Hz)
: 0.01 g²/Hz (16 Hz)
: 0.001 g²/Hz (40 Hz)
: 0.001 g²/Hz (80 Hz)
: 0.00001 g²/Hz (200 Hz)
Test Axis : X, Y, Z axis
Test Time : 1 hr 30 mins (Each axis)
Total Test Time : 4 hrs 30 mins

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TEST SPECIFICATION (2) :

Reference to MIL-STD 810G 514.6E-1 Category 24

Random vibration test (Non-Operating)

Frequency : 20 Hz to 2,000 Hz

Acceleration : 7.7 g rms

P.S.D. : 0.04 g²/Hz (20 Hz)
: 0.04 g²/Hz (1,000 Hz)

: -6 dB/Oct (2,000 Hz)

Test Axis : X, Y, Z axis

Test Time : 1 hr (Each axis)

Total Test Time : 3 hrs

TEST SPECIFICATION (3) :

Reference to MIL-STD 810G 514.6E-2 Category 24

Sine vibration test (Non-Operating)

Frequency : 5 Hz to 500 Hz

Displacement : 5.1 mm (5 Hz to 14 Hz)
: 0.91 mm (33 Hz to 51.2 Hz)

Acceleration : 2 g (14 Hz to 33 Hz)
: 5 g (51.2 Hz to 500 Hz)

Test Axis : X, Y, Z axis

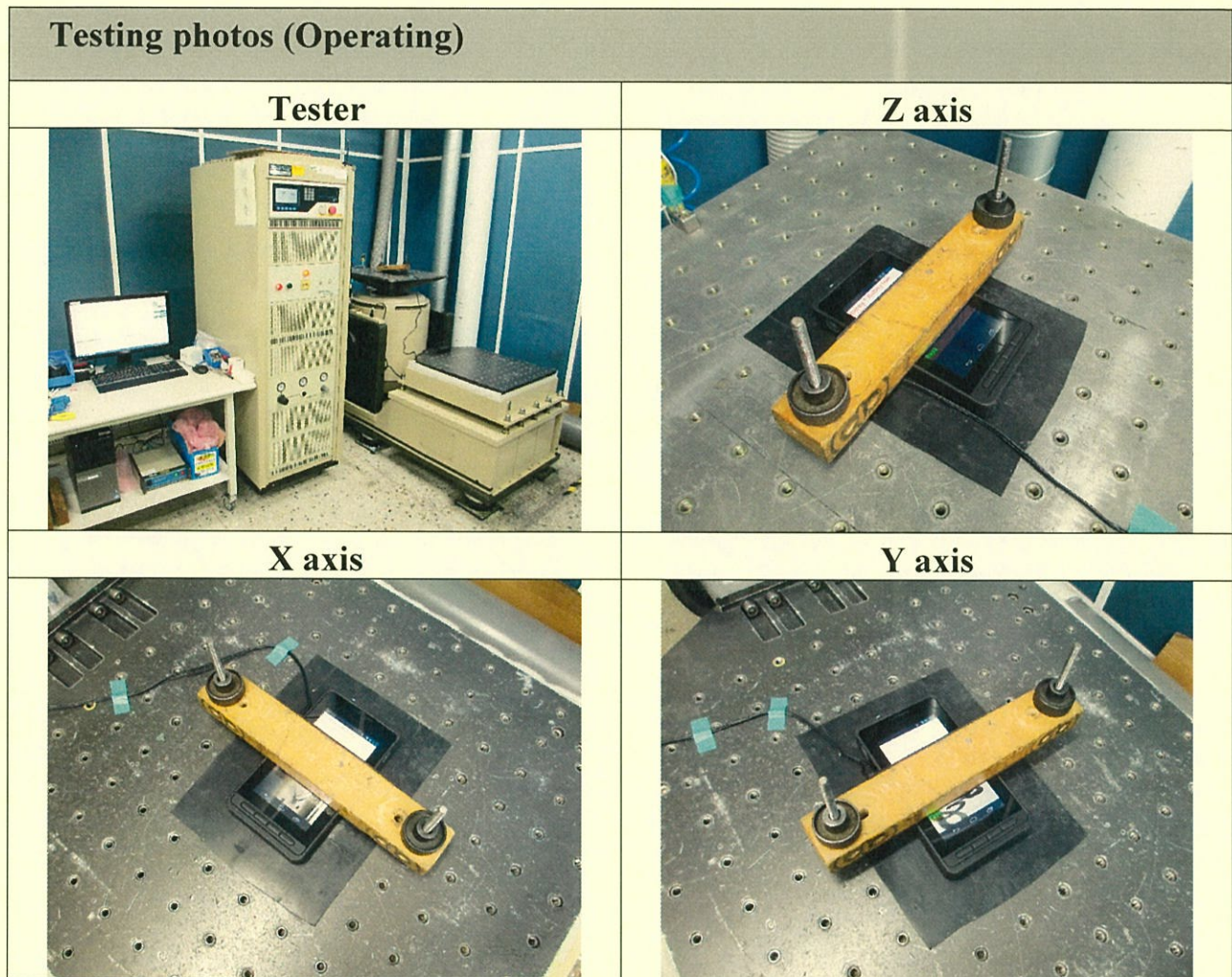
Test Time : 30 mins (Each axis)

Total Test Time : 1 hr 30 mins

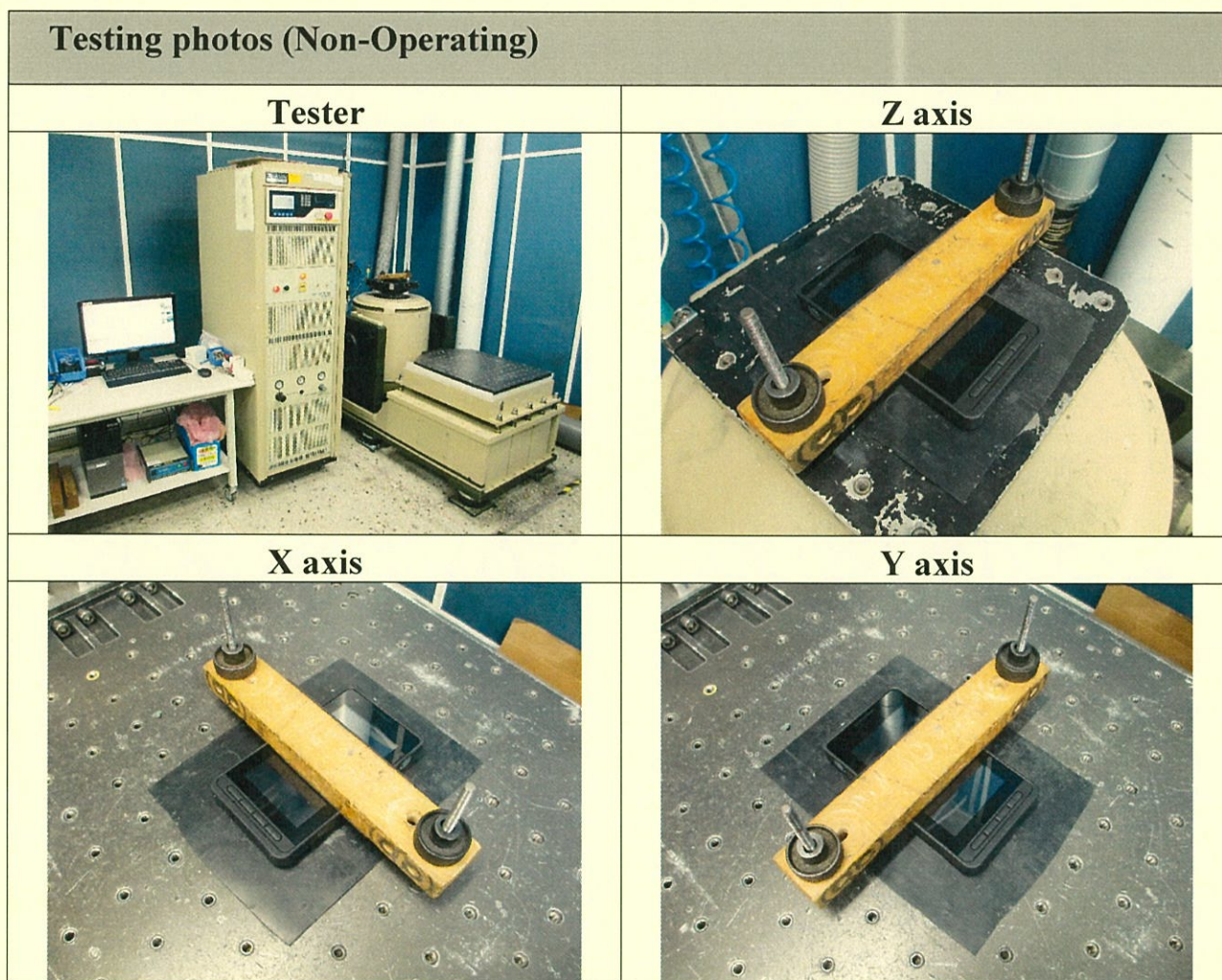
TEST RESULT :

Describe	PASS	FAIL	Non-Judgment
Function judgment ⁽¹⁾	√	—	—
Appearance check ⁽²⁾	√	—	—
(1)—Bootting function was normal after the test.			
(2)—No visible damages were found.			

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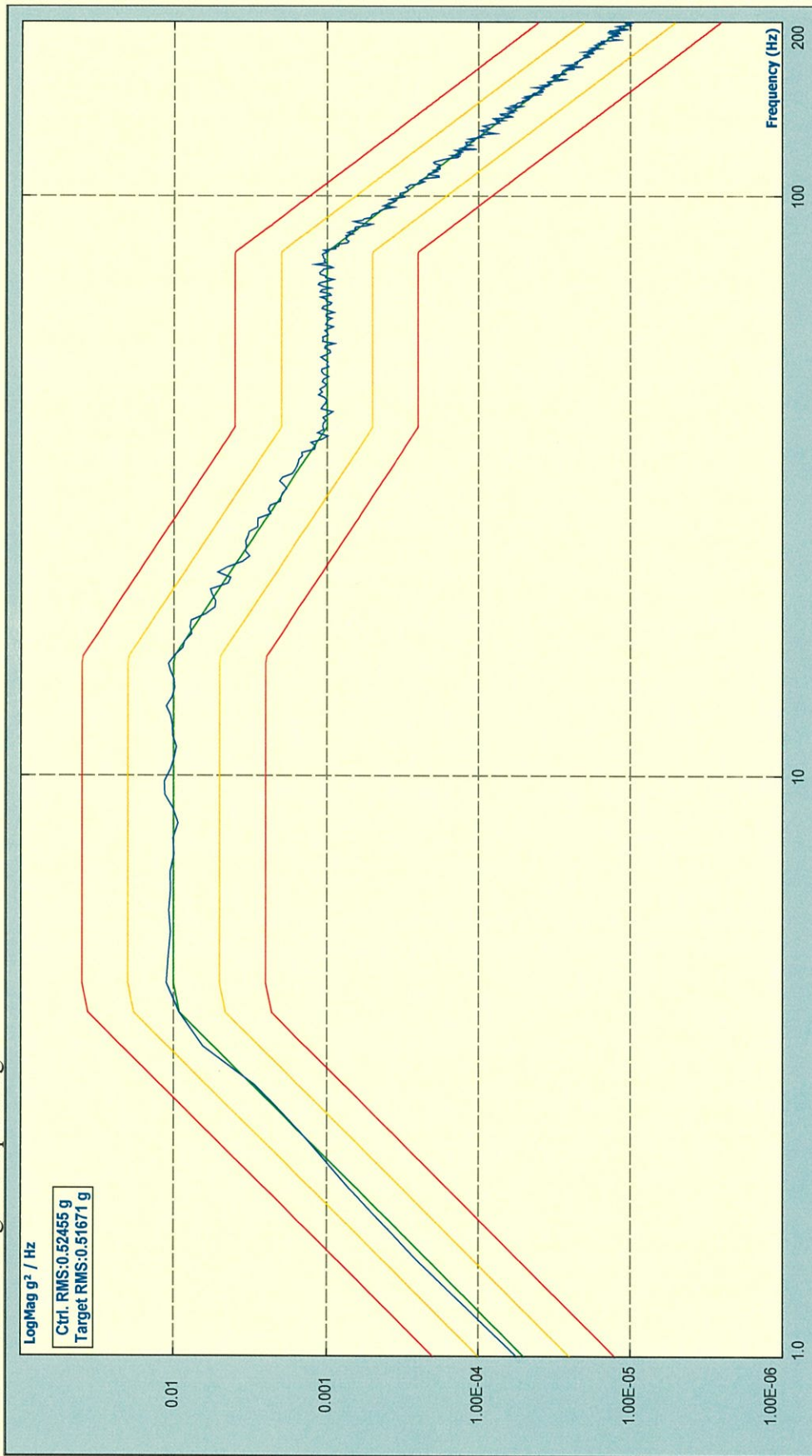
TESTING / INSPECTION REPORT

Testing photos

After test

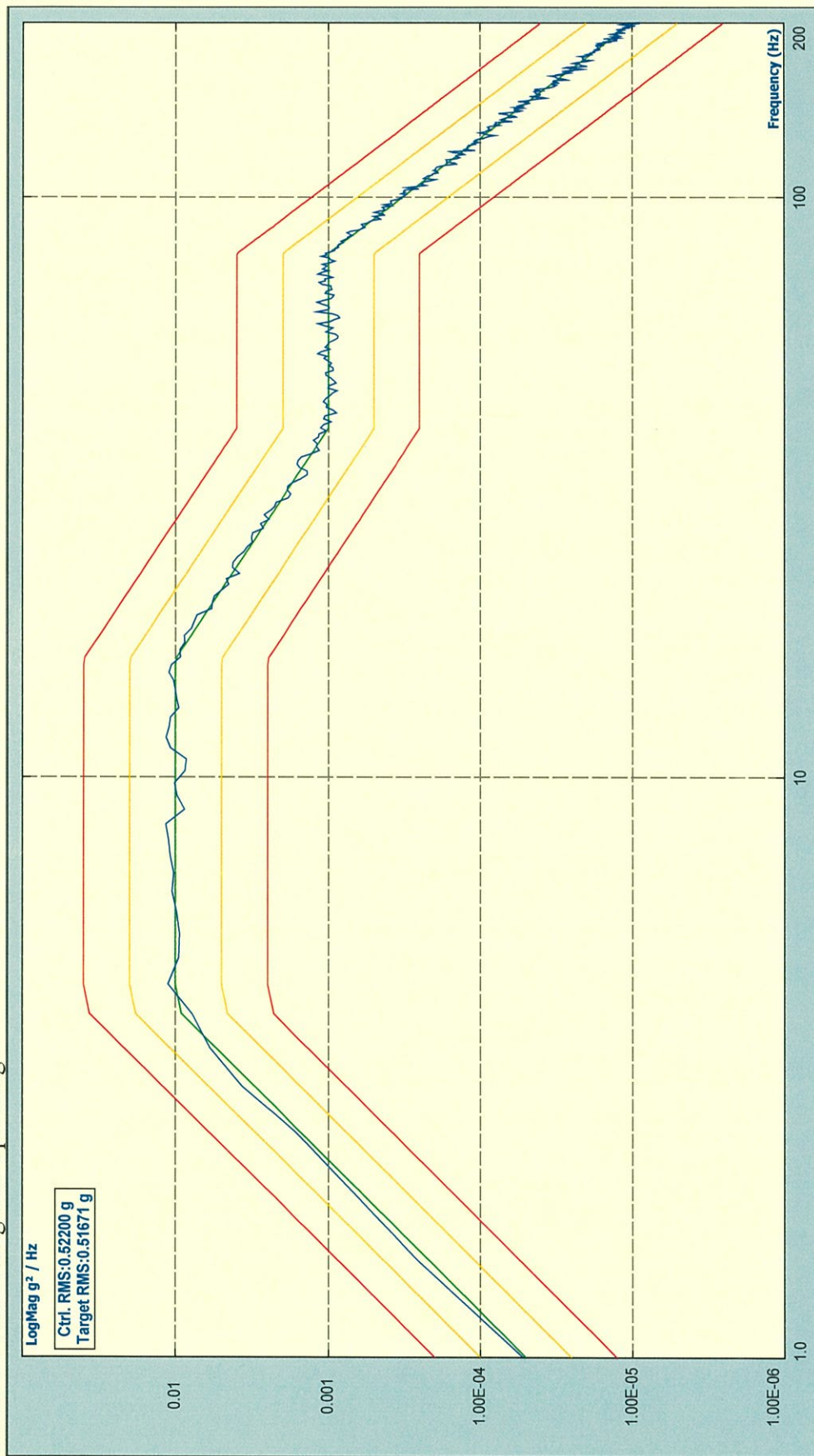


X axis 1-200Hz 0.52g rms Operating



Level: 100.00 %	Drive Pk: 0.256V	Est. Disp. : 22.93 mm Pk-Pk
Velocity Pk: 261.0 mm/s	Control RMS: 0.525 g	Target RMS: 0.513 g
Remaining: 00:00:00	Total Elapsed: 01:32:13	Full Level Elapsed: 01:30:00

Y axis 1-200Hz 0.52g rms Operating



Level: 100.00 %

Velocity Pk: 258.1 mm/s

Remaining: 00:00:00

Drive Pk: 0.246V

Control RMS: 0.522 g

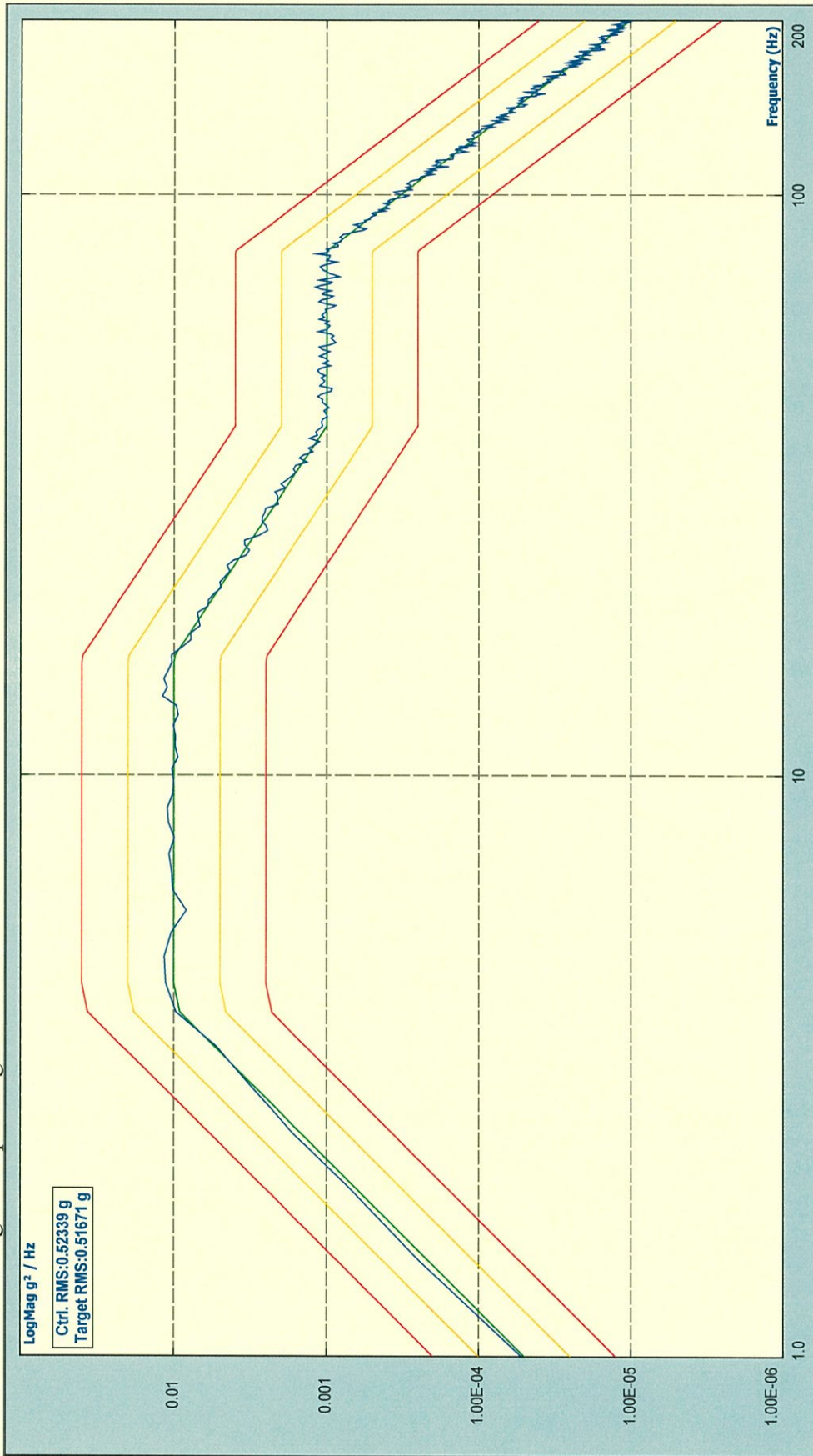
Total Elapsed: 01:32:13

Est. Disp. : 22.64 mm Pk-Pk

Target RMS: 0.513 g

Full Level Elapsed: 01:30:00

Z axis 1-200Hz 0.52g rms Operating

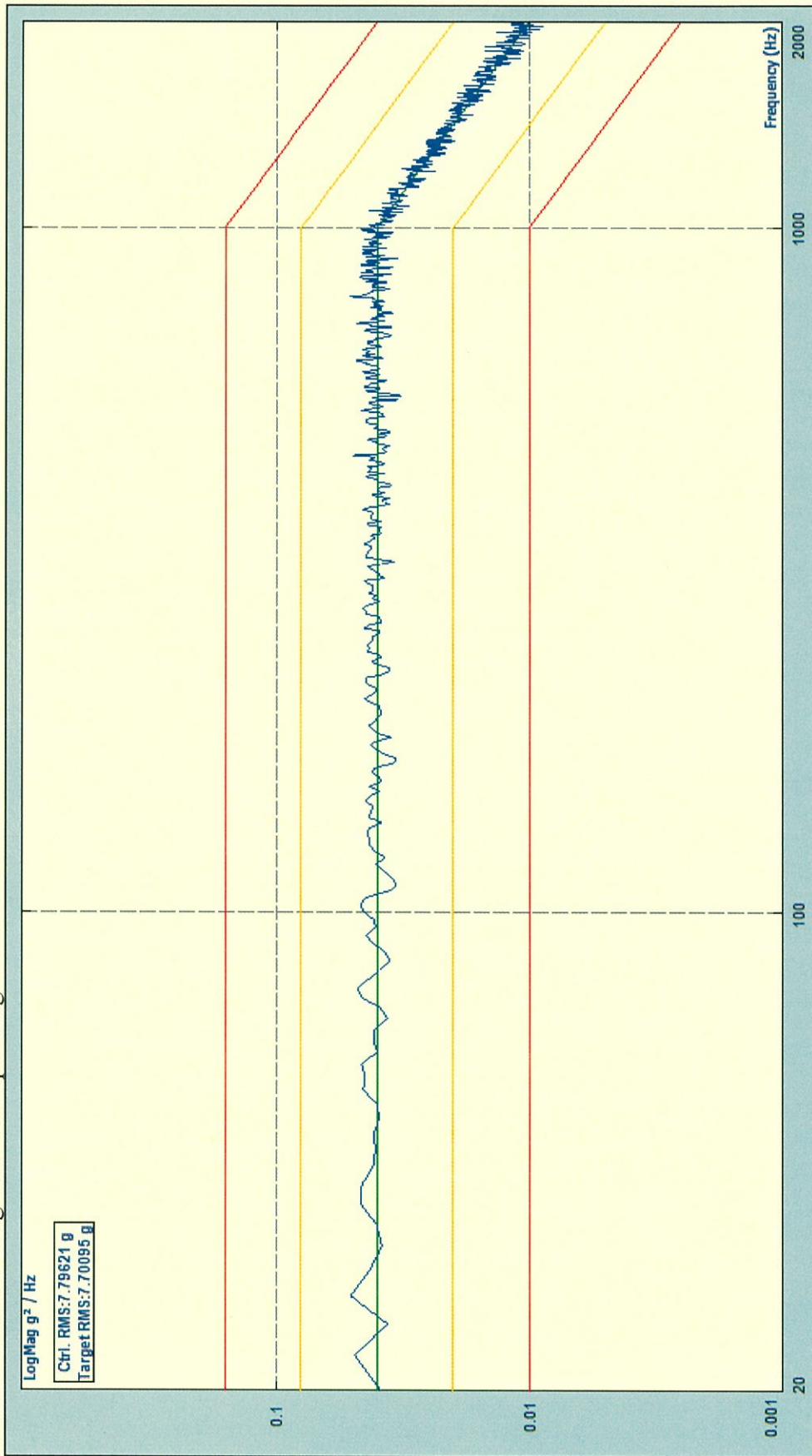


Level: 100.00 %
Velocity Pk: 260.8 mm/s
Remaining: 00:00:00

Drive Pk: 0.243V
Control RMS: 0.523 g
Total Elapsed: 01:32:11

Est. Disp. : 23.93 mm Pk-Pk
Target RMS: 0.513 g
Full Level Elapsed: 01:30:00

X axis 20-2000Hz 7.7g rms Non-Operating



Level: 100.00 %

Velocity Pk: 220.6 mm/s

Remaining: 00:00:00

Drive Pk: 1.612V

Control RMS: 7.796 g

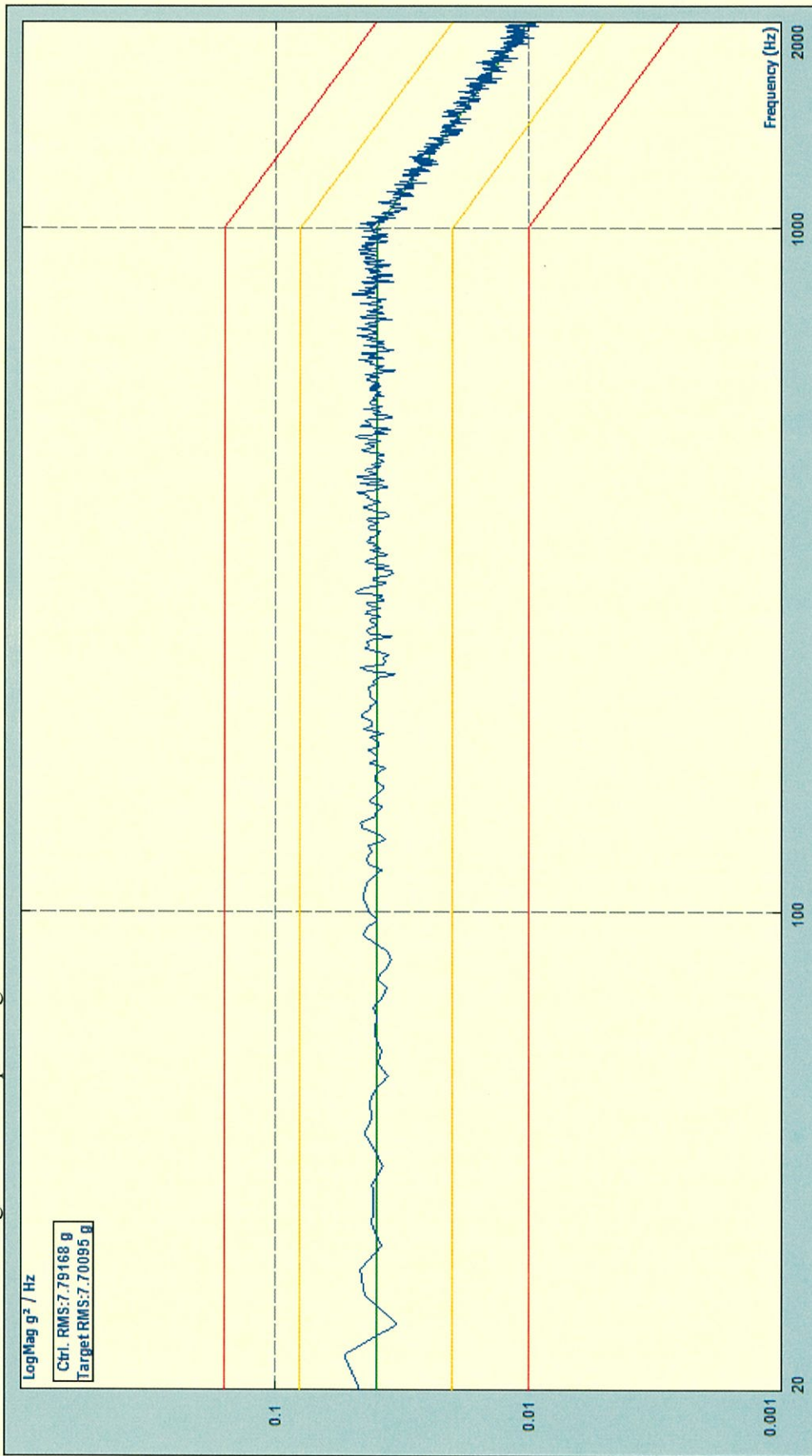
Total Elapsed: 01:01:08

Est. Disp. : 2.175 mm Pk-Pk

Target RMS: 7.699 g

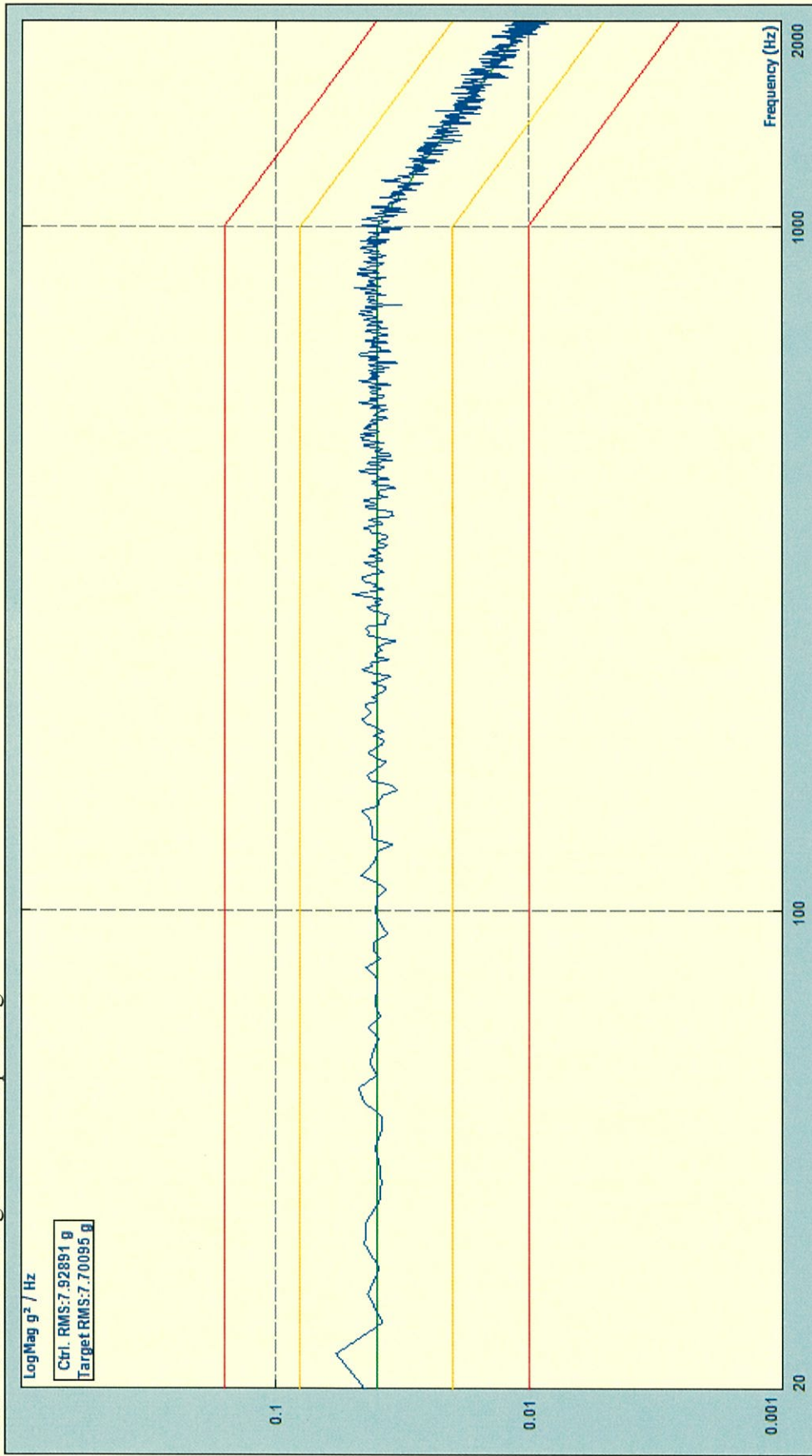
Full Level Elapsed: 01:00:00

Y axis 20-2000Hz 7.7g rms Non-Operating



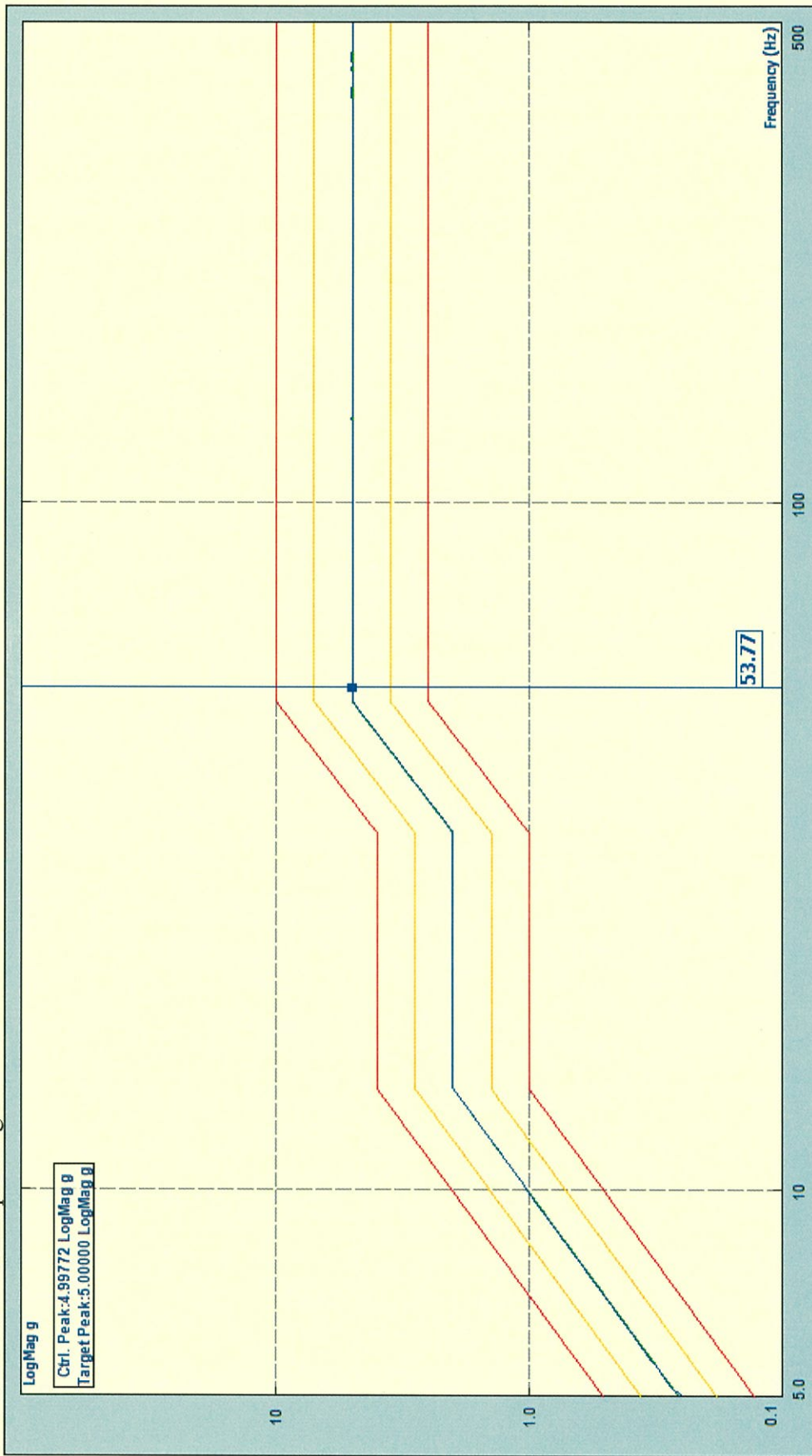
Level: 100.00 %	Drive Pk: 1.487V	Est. Disp.: 2.232 mm Pk-Pk
Velocity Pk: 221.4 mm/s	Control RMS: 7.792 g	Target RMS: 7.699 g
Remaining: 00:00:00	Total Elapsed: 01:01:08	Full Level Elapsed: 01:00:00

Z axis 20-2000Hz 7.7g rms Non-Operating



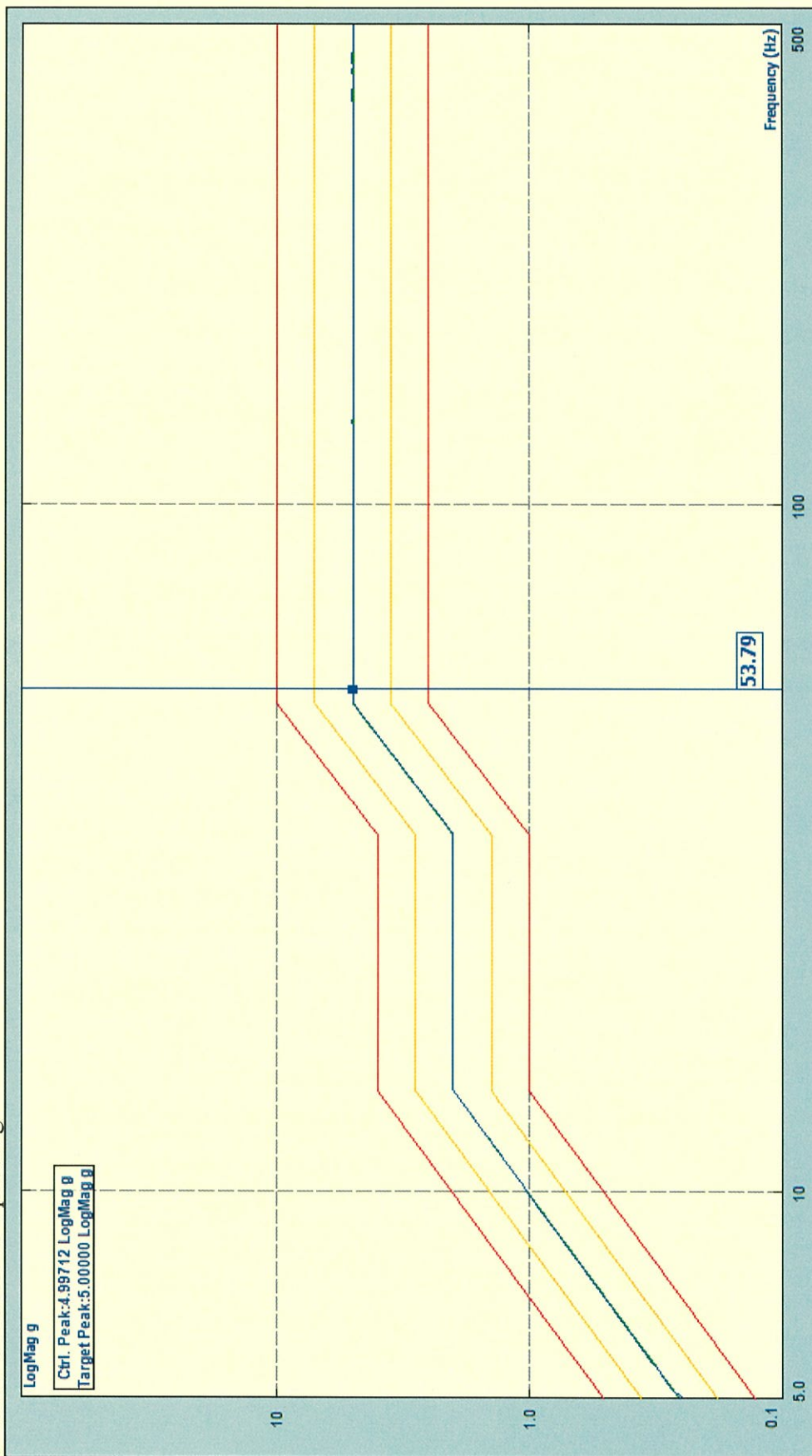
Level: 100.00 %	Drive Pk: 1.158V	Est. Disp. : 2.248 mm Pk-Pk
Velocity Pk: 222.5 mm/s	Control RMS: 7.929 g	Target RMS: 7.699 g
Remaining: 00:00:00	Total Elapsed: 01:01:06	Full Level Elapsed: 01:00:00

X axis 5-500Hz Non-Operating



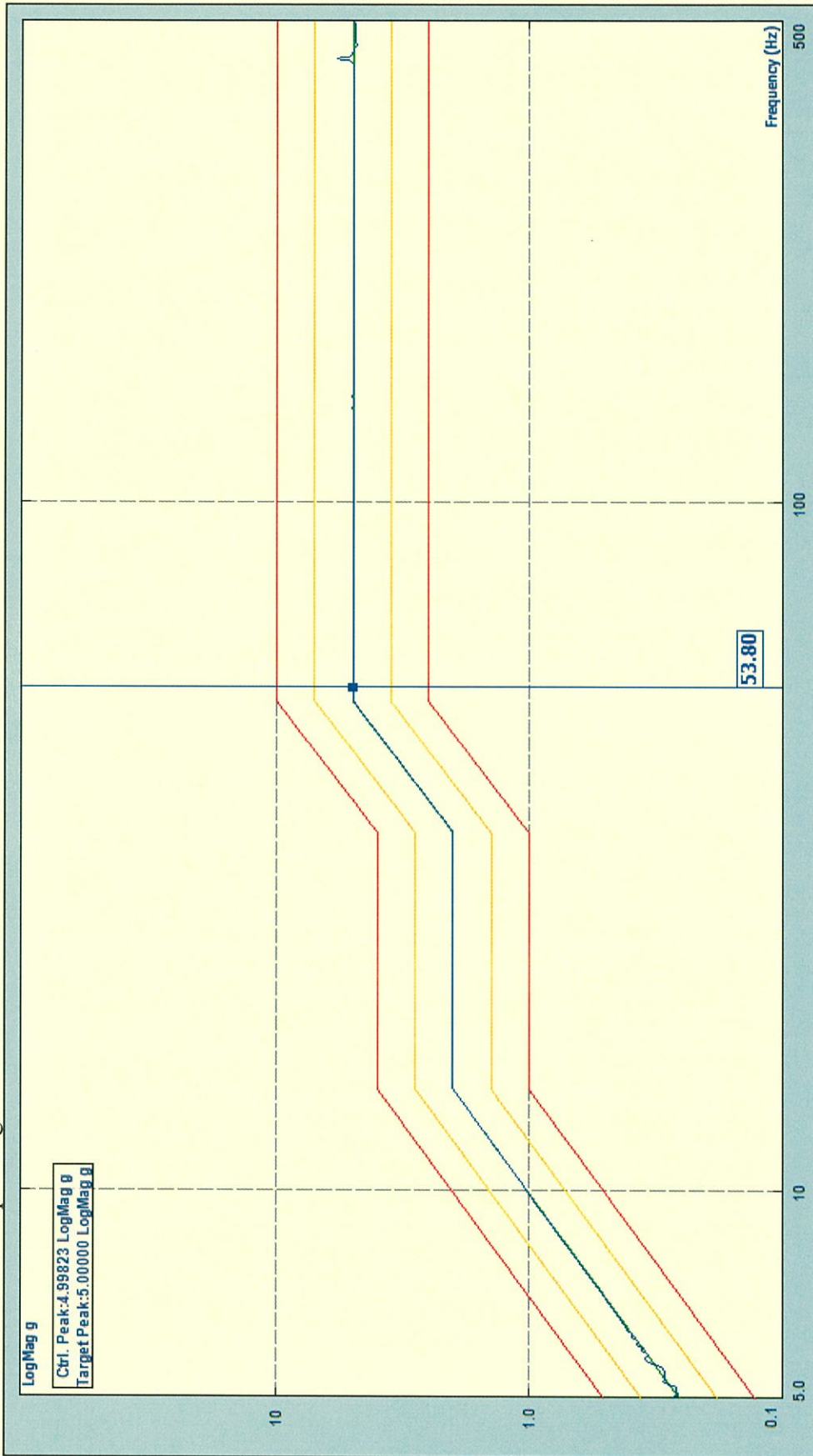
Level: 100.00 %	Drive Pk: 0.310V	Est. Disp. : 0.858 mm Pk-Pk
Velocity Pk: 145.0 mm/s	Control Pk: 4.998 g	Target Pk: 5.000 g
Remaining: 00:00:00	Total Elapsed: 00:30:20	Full Level Elapsed: 00:30:00
Sweeping Rate: 1 Oct/Min		

Y axis 5-500Hz Non-Operating



Level: 100.00 %	Drive Pk: 0.318V	Est. Disp. : 0.858 mm Pk-Pk
Velocity Pk: 145.0 mm/s	Control Pk: 4.997 g	Target Pk: 5.000 g
Remaining: 00:00:00	Total Elapsed: 00:30:55	Full Level Elapsed: 00:30:00
Sweeping Rate: 1 Oct/Min		

Z axis 5-500Hz Non-Operating



Level: 100.00 %	Drive Pk: 0.189V	Est. Disp. : 0.857 mm Pk-Pk
Velocity Pk: 144.9 mm/s	Control Pk: 4.998 g	Target Pk: 5.000 g
Remaining: 00:00:00	Total Elapsed: 00:30:20	Full Level Elapsed: 00:30:00
Sweeping Rate: 1 Oct/Min		

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