

ENVIRONMENTAL TEST LABORATORY

ENVIRONMENTAL TEST REPORT

1. General:

- 1.1 This document describes the sine vibration test that have been conducted at "Elisra" environmental testing laboratory on the TRUEMETER without the packing in non-operating condition.
- 1.2 The test was performed in order to determine the ability of the TRUEMETER to be exposure to sine vibration condition without experiencing physical damage or deterioration in performance.
- 1.3 The test was conducted for " SATEC LTD. ".

2. Test item:

- 2.1 TRUEMETER model 130E, S/N: 995402, S/W: VER. 3.53 .

3. Test Method:

IEC-68-2-6, test Fc:

Frequency range: 10-60 Hz & 60-150 Hz

Acceleration: 0.035 mm & 0.5 g

Axes of vibration: 3 axes (x, y, z)

Number of sweep cycles: 10 (7.5 min. per sweep, total of 75 min. per axis)

4. **Test date:**

The test was performed on 11-12 January, 2000.

5. **Location of testing**

Elisra environmental test laboratory , bene beraq israel.

6. **Instrumentation:**

6.1 L.D.S. Elctrodynamic shaker, model: 964LS.
Calibration expire date: 31 May 2000.

6.2 U.D Control system, model: VWIN.
Calibration expire date: 30 Sep. 2000.

6.3 Unholtz-Dickie charge amplifier, model: D22.
Calibration expire date: 28 Apr. 2000.

6.4 Endevco accelerometers, model: 224C.
Calibration expire date: 31 Oct. 2000.

7. **Test Procedure:**

7.1 The procedure was performed as per "Test Method" paragraph 3.

7.2 The photos of the test item attached to the shaker are shown in appendix A.

7.3 The vibration graphs are shown in appendix B.

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Name



12-Jan.-2000
Date

Approved by:
CARMELI DOV
Name



APPENDIX - A

PHOTOS

Photo no.1: The test item attached to the shaker in X-axis

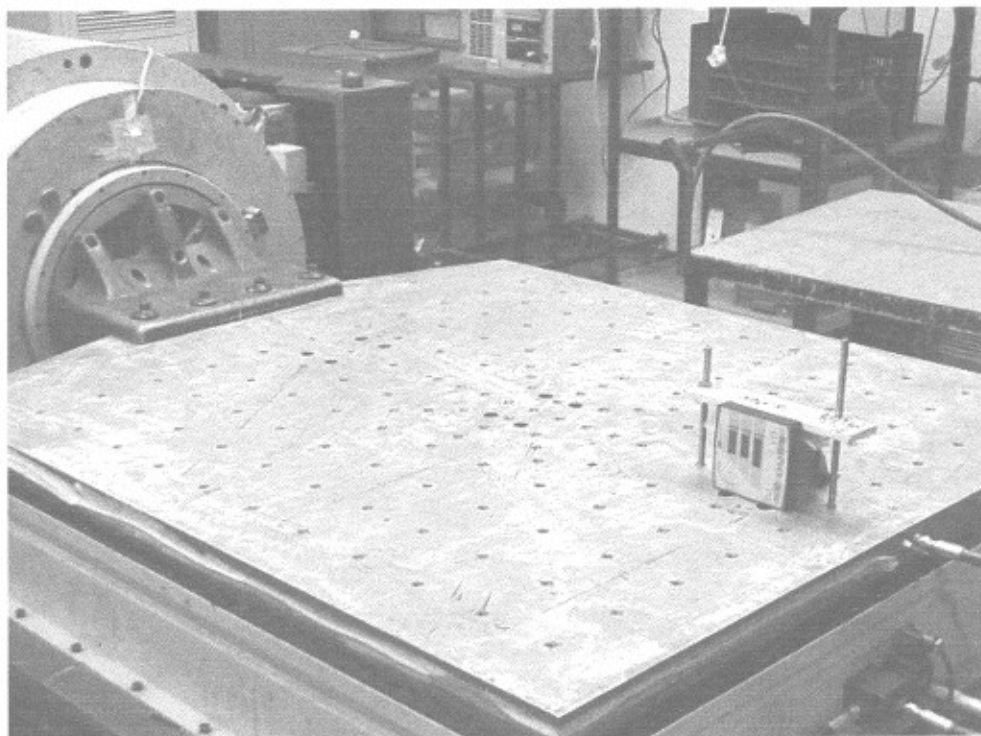


Photo no.2: The test item attached to the shaker in Y-axis

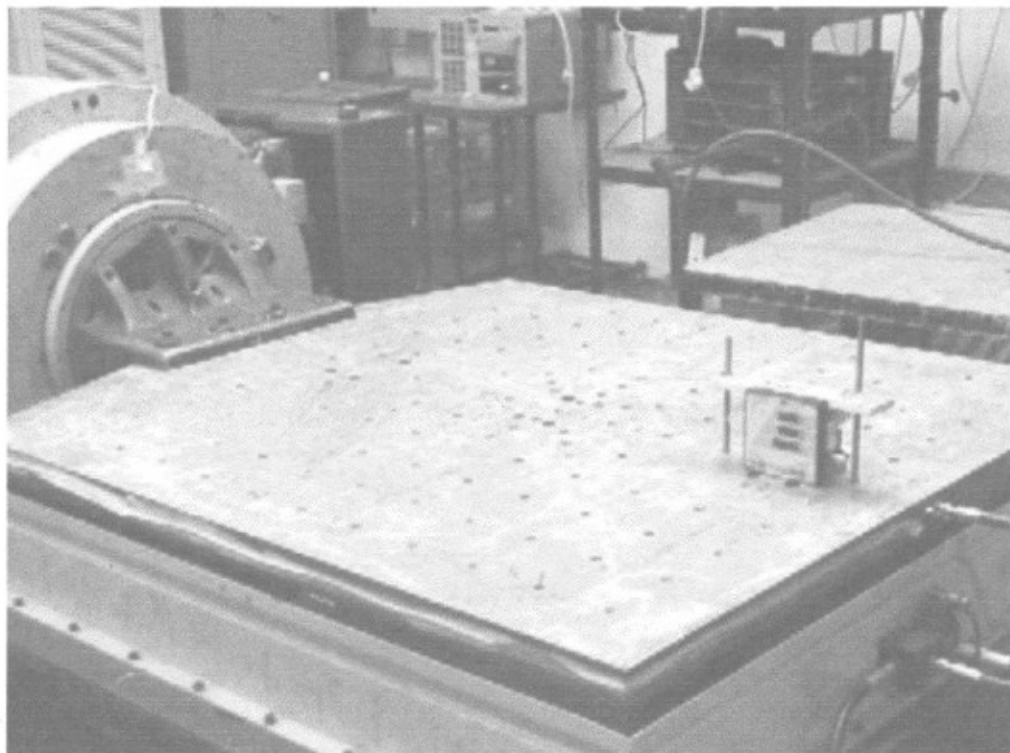
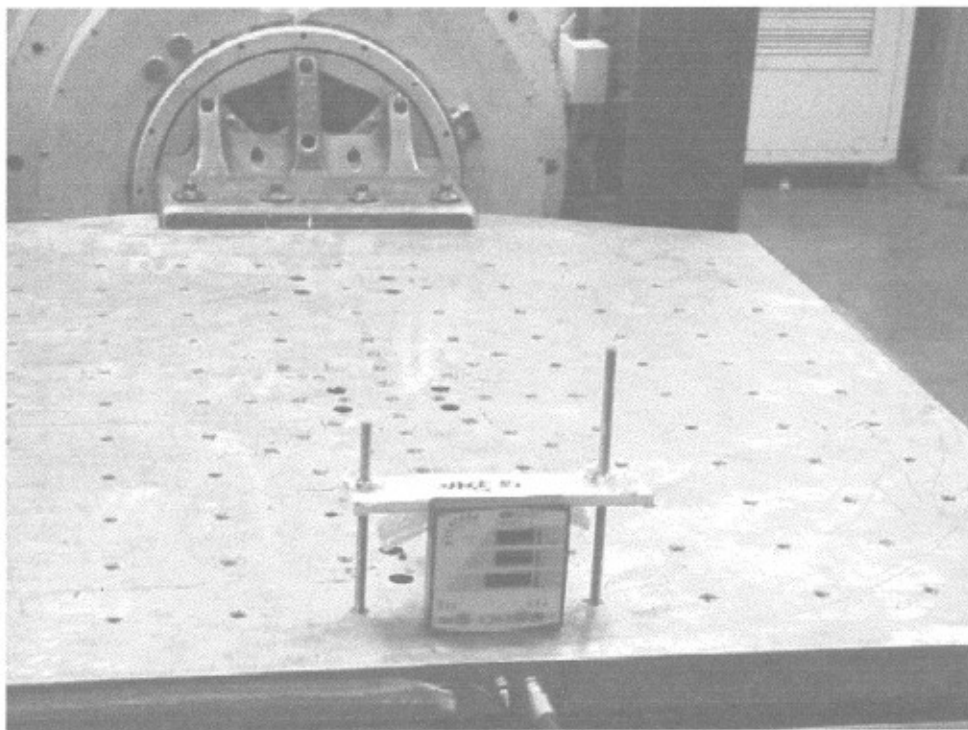


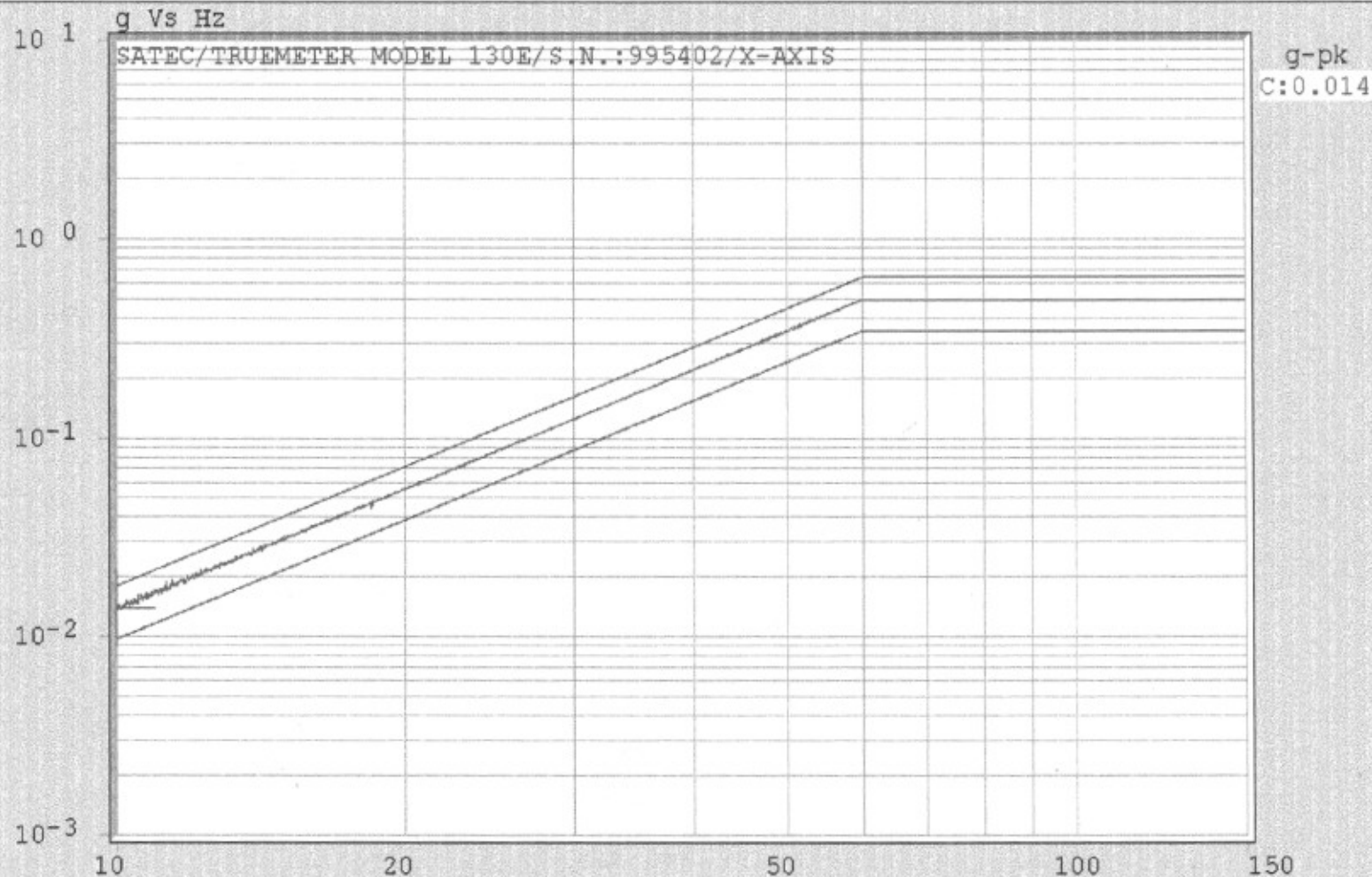
Photo no.3: The test item attached to the shaker in Z-axis



APPENDIX -B

GRAPHS

Control - Acceleration vs Freq



01/12/2000

10:15:17 AM

Total: 01:15:09

Auto: 01:15:00

of 01:15:00

Swp 11

Status: Auto

FINISHED

Freq 10.03

Hz

Ref 2.720

tails pk-pk

Acc 0.014

g-pk

Vel 0.09

m/s-pk

Disp 2.73

tails pk-pk

Swp : 7 min 30 sec

Servo(dB/s): 1K

Freq : Log

Type:Single

C:1

AutoSave

S:1

SINE SETUP ID: satec
SETUP DESCRIPTION:

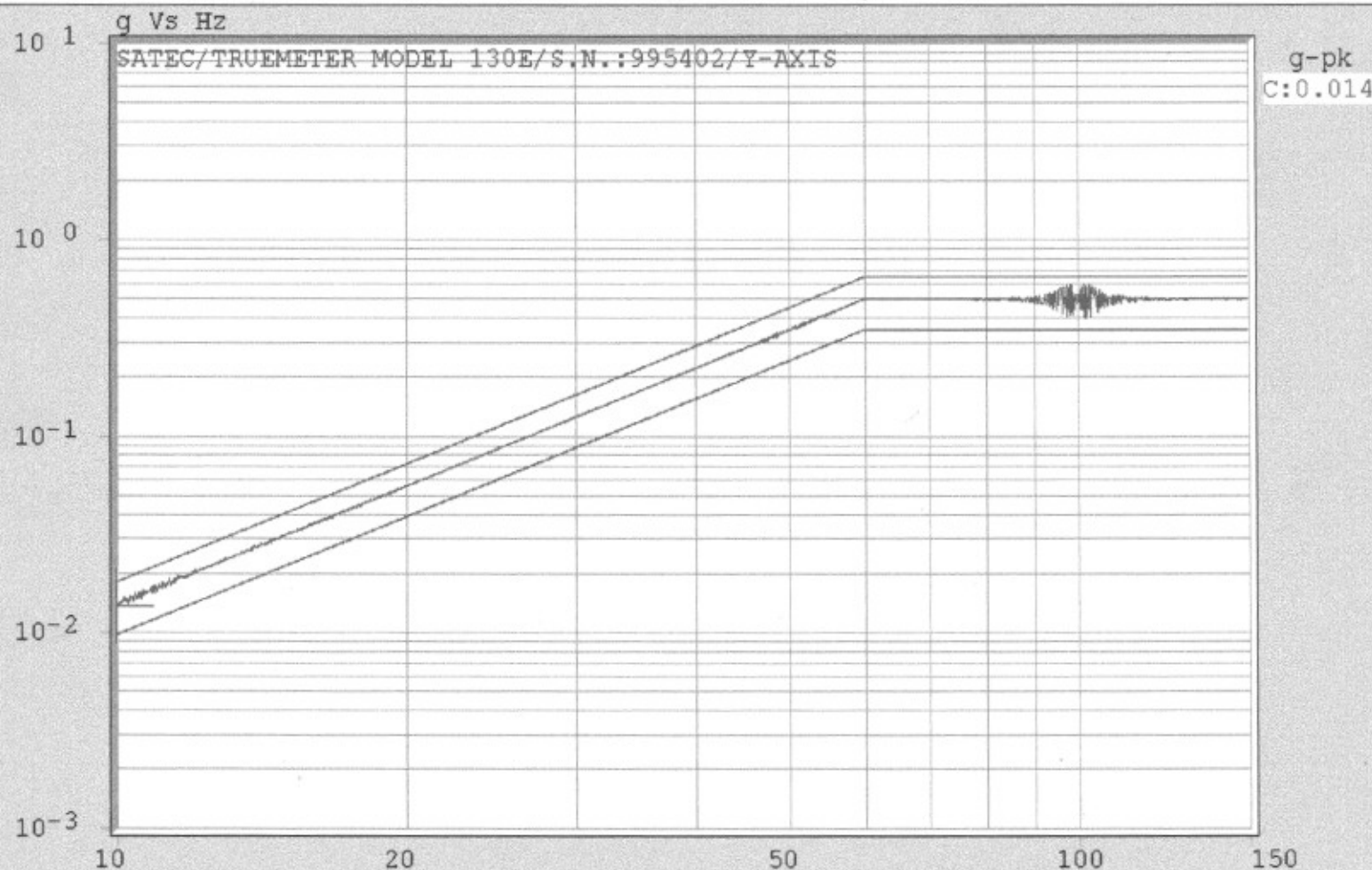
RUN NAME: run3

RUN DESCRIPTION: None

CH-1: 100.0 mV/g
CH-5: 10.00 mV/gCH-2: 10.00 mV/g
CH-6: 10.00 mV/gCH-3: 10.00 mV/g
CH-7: 10.00 mV/gCH-4: 10.00 mV/g
CH-8: 10.00 mV/g

UD-VWIN

Control - Acceleration vs Freq



Save 2 of 2

01/12/2000

08:49:23 AM

Total: 01:15:07

Auto: 01:15:00

of 01:15:00

Swp 11

Status: Auto

FINISHED

Freq 10.03

Hz

Ref 2.720

mils pk-pk

Acc 0.014

g-pk

Vel 0.08

m/s-pk

Disp 2.65

mils pk-pk

Swp : 7 min 30 sec

Servo(dB/s): 1K

Freq : Log

Type:Single

C:1

AutoSave

S:1



SINE SETUP ID: satec

RUN NAME: run2

RUN DESCRIPTION: None

SETUP DESCRIPTION:

CH-1: 100.0 mV/g

CH-2: 10.00 mV/g

CH-3: 10.00 mV/g

CH-4: 10.00 mV/g

CH-5: 10.00 mV/g

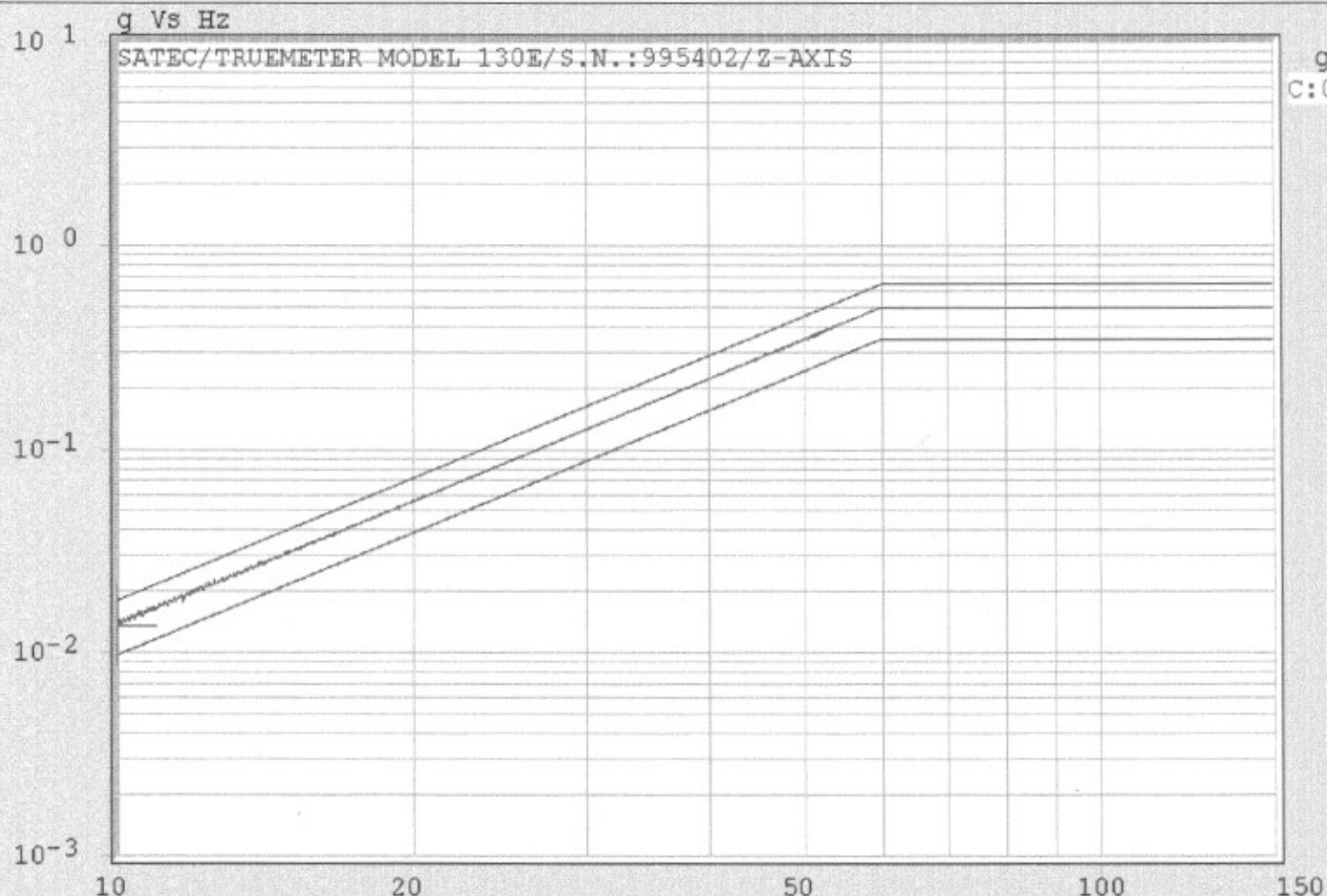
CH-6: 10.00 mV/g

CH-7: 10.00 mV/g

CH-8: 10.00 mV/g

UD-VWIN

Control - Acceleration vs Freq



01/11/2000

05:21:44 PM

Total: 01:15:13

Auto: 01:15:00

of 01:15:00

Swp 11

Status: Auto

FINISHED

Freq 10.03

Hz

Ref 2.720

mils pk-pk

Acc 0.014

g-pk

Vel 0.08

m/s-pk

Disp 2.66

mils pk-pk

Swp : 7 min 30 sec

Servo(dB/s): 1K

Freq : Log

Type:Single

C:1

AutoSave

S:1



SINE SETUP ID: satec
 SETUP DESCRIPTION:

RUN NAME: run1

RUN DESCRIPTION: None

CH-1: 100.0 mV/g

CH-2: 10.00 mV/g

CH-3: 10.00 mV/g

CH-4: 10.00 mV/g

CH-5: 10.00 mV/g

CH-6: 10.00 mV/g

CH-7: 10.00 mV/g

CH-8: 10.00 mV/g

UD-VWIN