TR-LOC-1025
Volume 1

HIRDLS Instrument

Vibration Test

Data

Z Axis

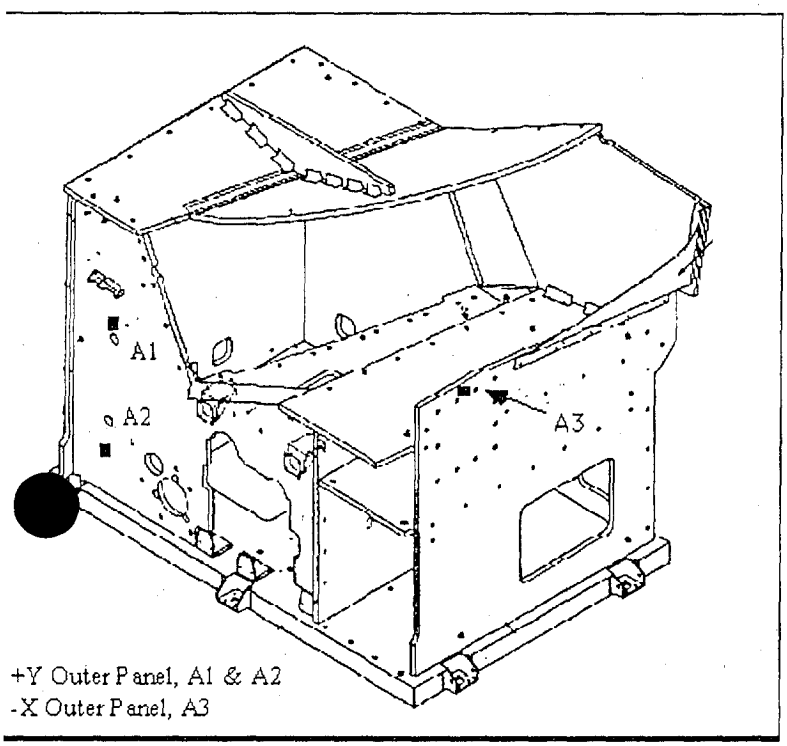
INSTRUMENTATION FOR HIRDLS INST. VIBRATION TEST

H. Nguyen/T. Curry 6/22/2002

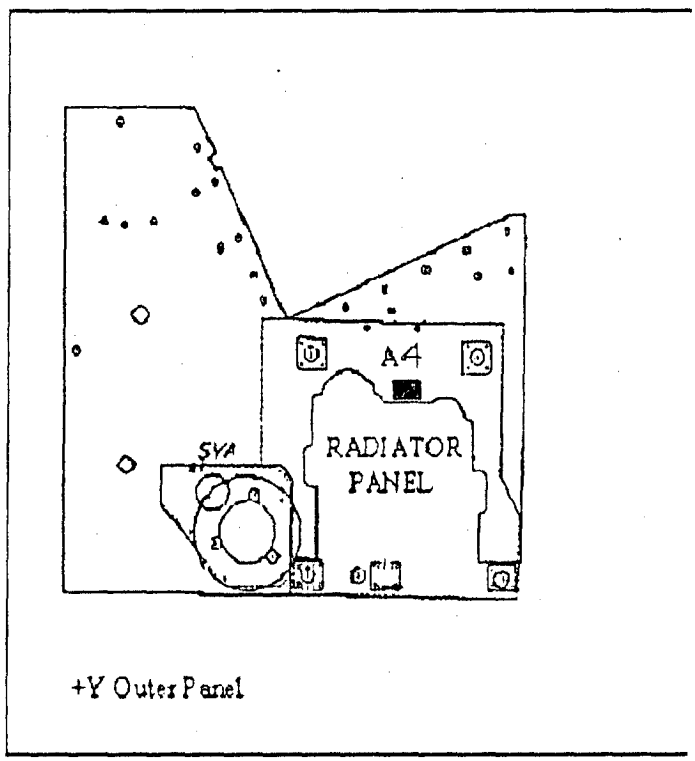
Accel No.	Location	Axes			Channel	Reserve
A1	Positive Y Panel, Near EEA	X	>=====>	CH:	33	36
	Positive Y Panel, Near EEA	Y	>=====>	CH:	34	37
	Positive Y Panel, Near EEA	Z	>=====>	CH:	35	38
A2	Positive Y Panel, Near TEU	X	>=====>	CH:	39	42
	Positive Y Panel, Near TEU	Y	>=====>	CH:	40	43
	Positive Y Panel, Near TEU	Z	>=====>	CH:	41	44
A3	Negative X Panel, Near CCU	X	>=====>	CH:	45	48
	Negative X Panel, Near CCU	Y	>=====>	CH:	46	49
	Negative X Panel, Near CCU	Z	>=====>	CH:	47	50
A4	Positive Y Panel, Near CMA	X	>=====>	CH:	51	54
	Positive Y Panel, Near CMA	Y	>=====>	CH:	52	55
	Positive Y Panel, Near CMA	Z	>=====>	CH:	53	56
A5	Kinematic Mount KM3, GSE	X	>=====>	CH:	7	N/A
	Kinematic Mount KM3, GSE	Y	>=====>	CH:	8	N/A
	Kinematic Mount KM3, GSE	Z	>=====>	CH:	9	N/A
A6	Kinematic Mount KM3, HIRDLS Instrument Base Plate	X	>=====>	CH:	10	N/A
	Kinematic Mount KM3, HIRDLS Instrument Base Plate	Y	>=====>	CH:	11	N/A
	Kinematic Mount KM3, HIRDLS Instrument Base Plate	Z	>=====>	CH:	12	N/A
A7	Kinematic Mount KM2-Y, GSE	X	>=====>	CH:	17	N/A
	Kinematic Mount KM2-Y, GSE	Y	>=====>	CH:	18	N/A
	Kinematic Mount KM2-Y, GSE	Z	>=====>	CH:	19	N/A
A8	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	X	>=====>	CH:	20	N/A
	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	Y	>=====>	CH:	21	N/A
	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	Z	>=====>	CH:	22	N/A
A9	Kinematic Mount KM2+Y, GSE	X	>=====>	CH:	23	N/A
	Kinematic Mount KM2+Y, GSE	Y	>=====>	CH:	24	N/A
	Kinematic Mount KM2+Y, GSE	Z	>=====>	CH:	25	N/A
A10	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	X	>=====>	CH:	26	N/A
	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	Y	>=====>	CH:	27	N/A
	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	Z	>=====>	CH:	28	N/A
F1	FLY AWAY, HIRDLS INSTRUMENT HOOD	Z		CH:	57	N/A

5.1.4 Axis Alignment and Accelerometer Location

In the diagrams below (RE: Figure 5.1.4-1(a) & (b)) are provided the HIRDLS Instrument, the coordinate axes, and the approximate location of the accelerometers. (NOTE: This may be subject to change) Following that (see Figure 5.1.4-2.1 - 2.3) are depicted the Interface Fixture, Interface GSE, and the KMs respectively. The control accelerometer is not shown for clarity.



(a) Accelerometers A1, A2, & A3



(b) Accelerometer A4

Figure 5.1.4-1. HIRDLS Instrument Accelerometer Locations.

(Note: Accelerometer locations will be subject to change)

CYGinn

HIRDLS RANDOM ANALYSIS, 3/19/02

- X, Y AND Z AXIS BASEDRIVES PERFORMED TO DETERMINE NOTCHING GUIDELINES FOR HIRDLS INSTRUMENT TESTING
- ANALYSIS PERFORMED ON HIRDLS VLA MODEL WITH TRW FLIGHT MOUNT STIFFNESS INCORPORATED
- ANALYSIS PARAMETERS
  - MODES RETAINED TO 500 HZ
  - Q = 20
  - ANALYSIS INPUT PSD SPEC: .01 G^2/HZ, 20 TO 500 HZ
  - PSD LIMITS PLACED ON EXISTING ACCELEROMETER LOCATIONS TO KEEP INSTRUMENT INTERFACE LOADS CONSISTENT WITH 1.25 X CLA RESULTS
- RESULTS
  - NOTCHING WILL BE NECESSARY AT INSTRUMENT PRIMARY (HIGH MASS) MODES FOR X, Y AND Z AXIS RANDOM TESTING
  - X-AXIS: 0.04 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR TEU (GRID 303779) Chanel ~~33~~ 39
    - LIMITS PRIMARY X-AXIS MODE PREDICTED AT 56.8 HZ
  - Y-AXIS: 0.02 G^2/HZ LIMIT <50 HZ, 0.08 G^2/HZ >50<80 HZ ON ACCELEROMETER NEAR EEA (GRID 303727) Chanel 34 (37 Redundancy)
    - LIMITS HIGH MASS Y-AXIS MODES PREDICTED AT 46.9 HZ AND 65.1 HZ
  - Z-AXIS: 0.01 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR CCU (GRID 302139) AND ACCELEROMETER NEAR TEU (GRID 303779)
    - LIMITS HIGH MASS Z-AXIS MODES AT 56.8 HZ, 65.1 HZ, AND 82.2 HZ TO 88.8 HZ

-12 dB w/ notch
Adjust notch manual

CCU chanel 47 + 50 TEU chanel 41 or 44

- RESPONSES ARE BASED ON ANALYTICAL PREDICTIONS AND MAY NEED ADJUSTING DURING TESTING
  - ACTUAL INPUT NOTCHES DURING TESTING SHOULD NOT EXCEED 14 DB
- RESPONSE SUMMARIES, PLOTS, AND MODAL EFFECTIVE WEIGHTS ARE PROVIDED IN THE FOLLOWING PAGES

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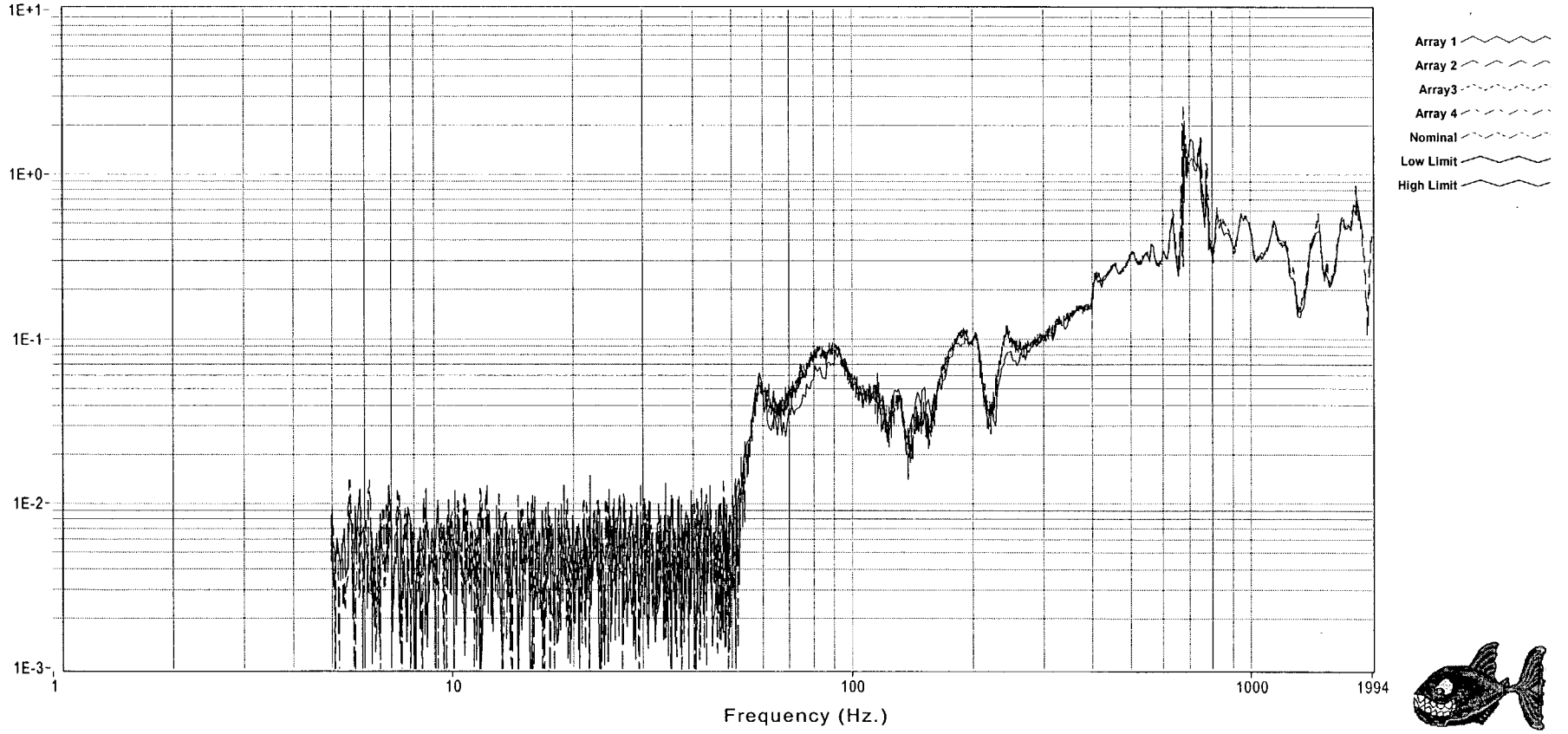
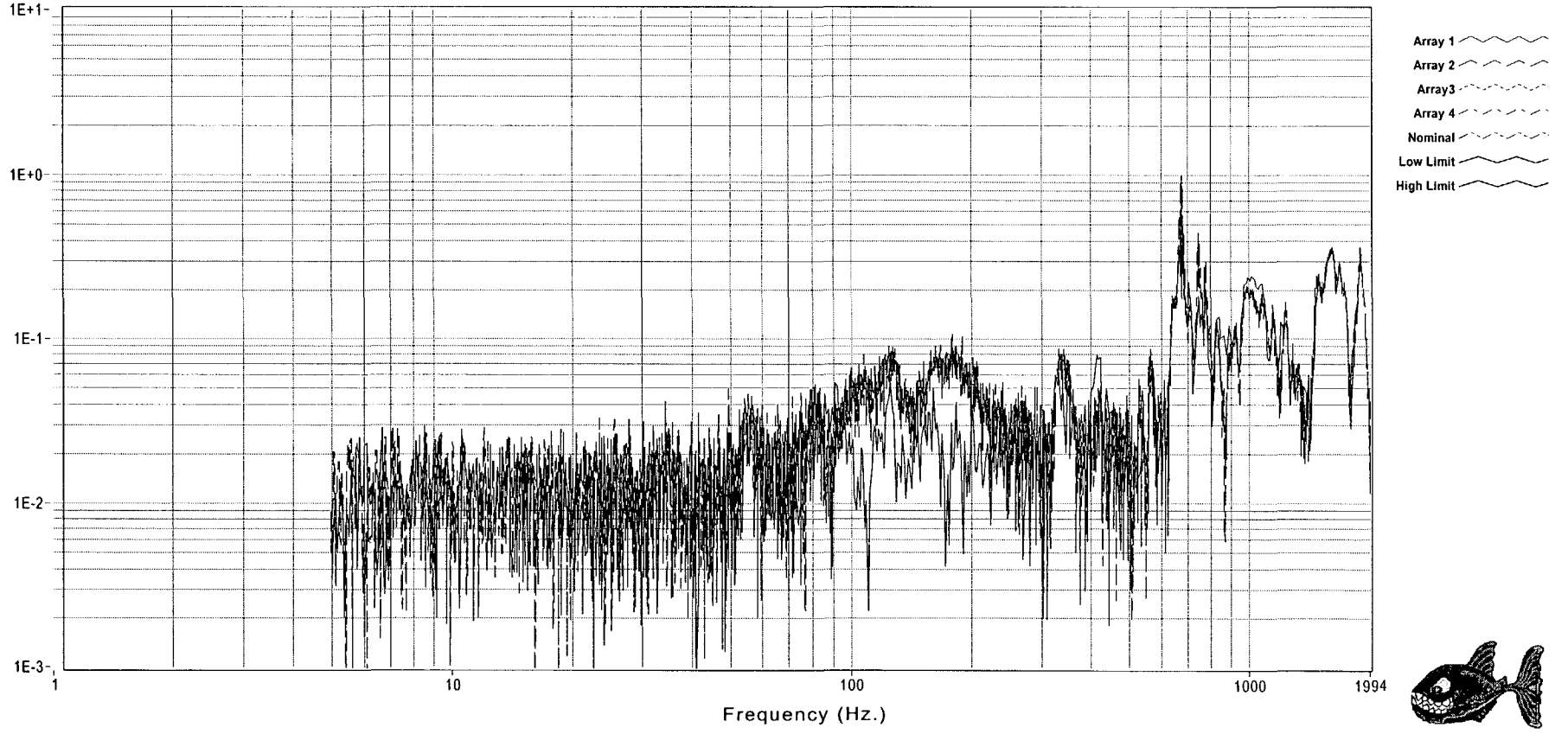
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A5 X Channel #7	A5 X Channel #7
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.666E+0 at 707.2 Hz.	Maximum = 2.623E+0 at 678.9 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A5 Y Channel #8	A5 Y Channel #8
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.378E-1 at 679.6 Hz.	Maximum = 1.005E+0 at 674.8 Hz.
Overall or RMS	N/A	N/A



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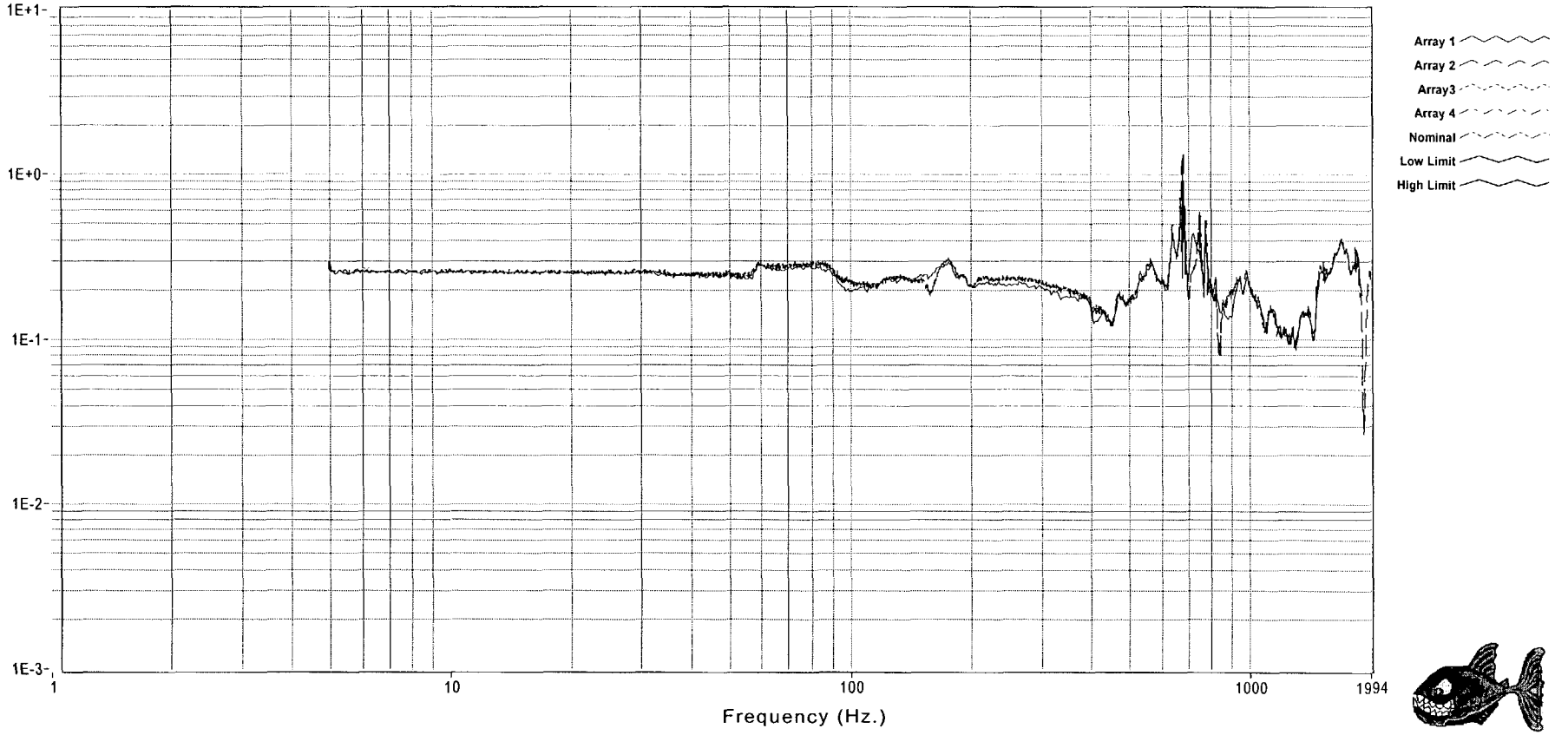
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A5 Z Channel #9	A5 Z Channel #9
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.729E-1 at 679.6 Hz.	Maximum = 1.408E+0 at 679.6 Hz.
Overall or RMS	N/A	N/A



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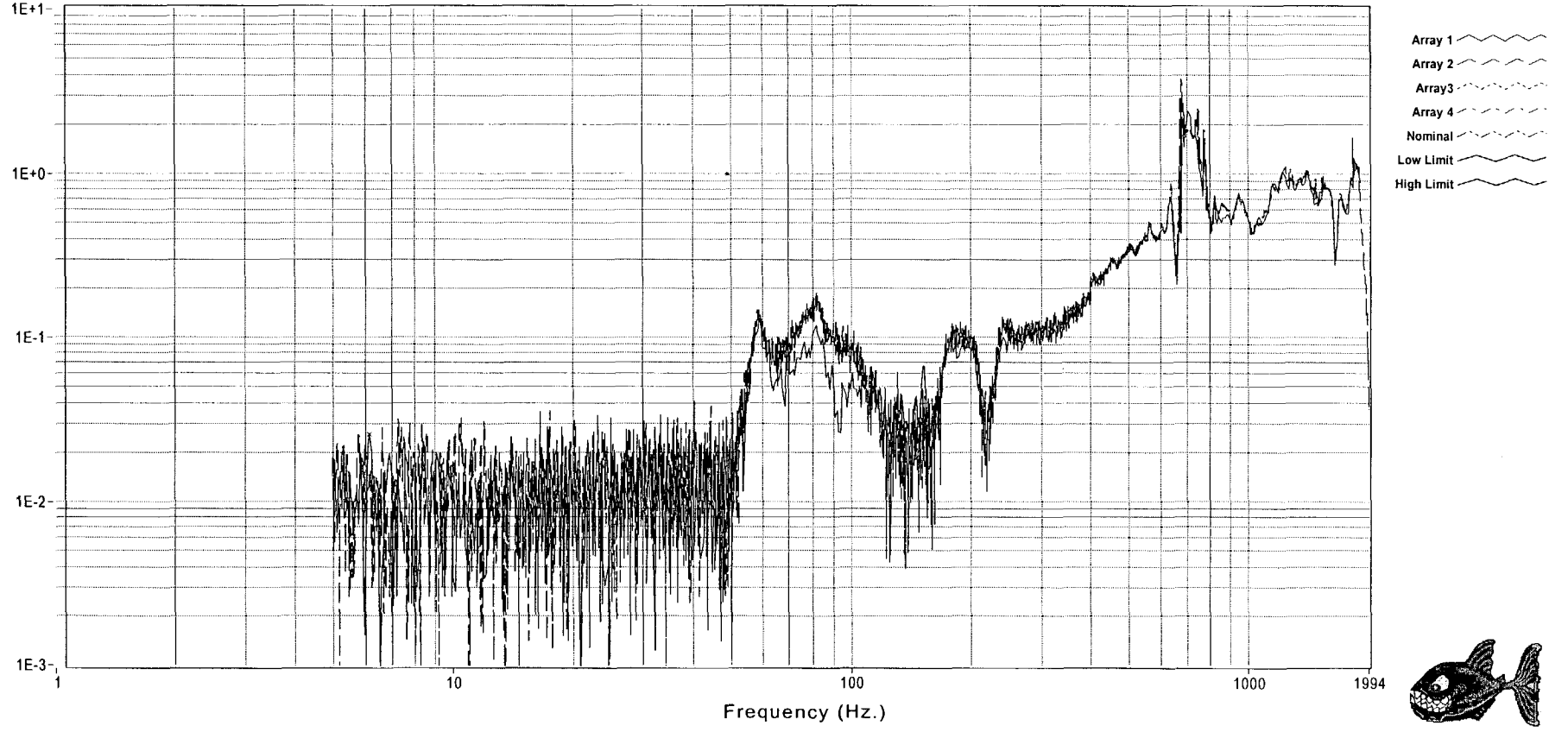
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A6 X Channel #10	A6 X Channel #10
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.382E+0 at 707.2 Hz.	Maximum = 3.804E+0 at 678.9 Hz.
Overall or RMS	N/A	N/A



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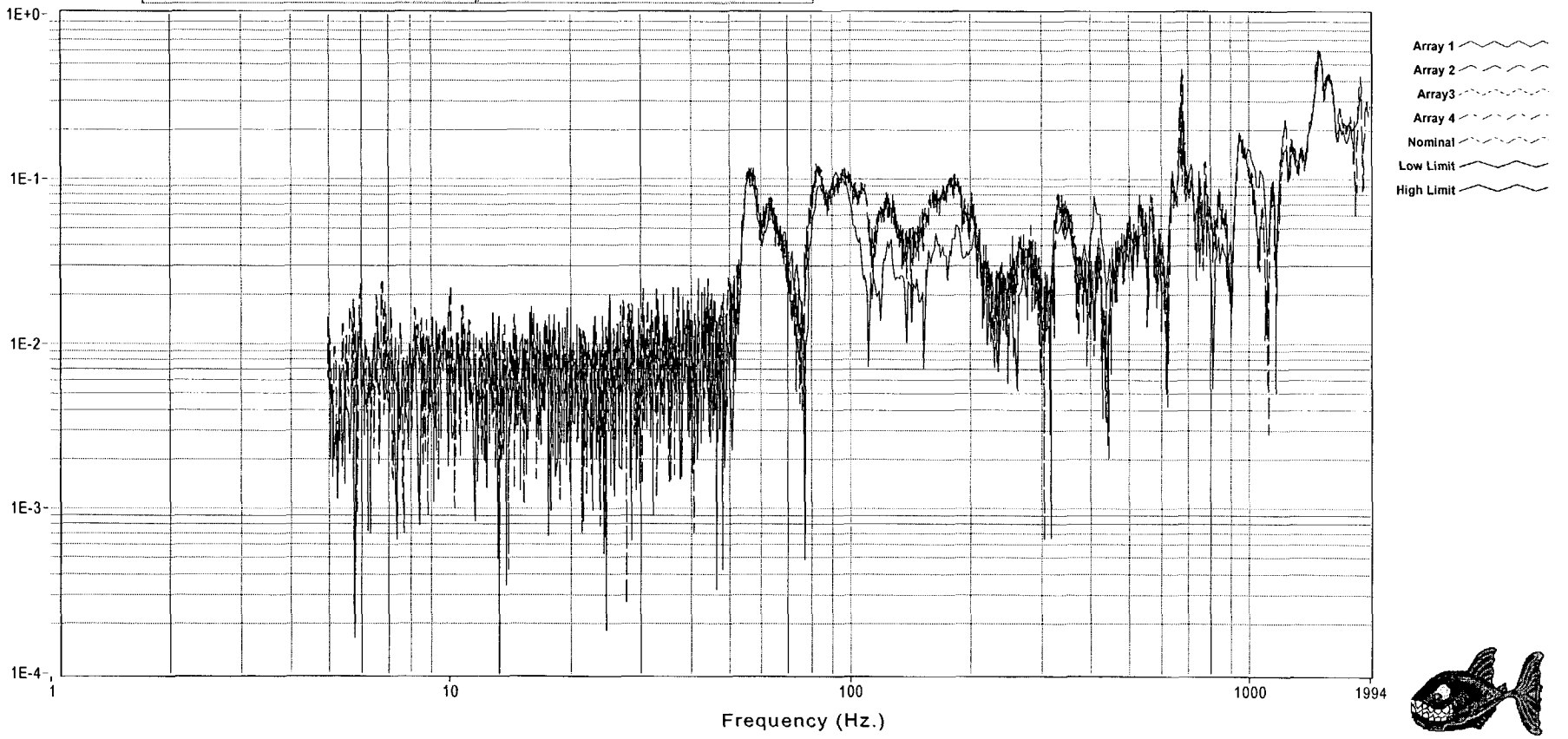
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A6 Y Channel #11	A6 Y Channel #11
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.857E-1 at 1492.0 Hz.	Maximum = 6.192E-1 at 1489.0 Hz.
Overall or RMS	N/A	N/A



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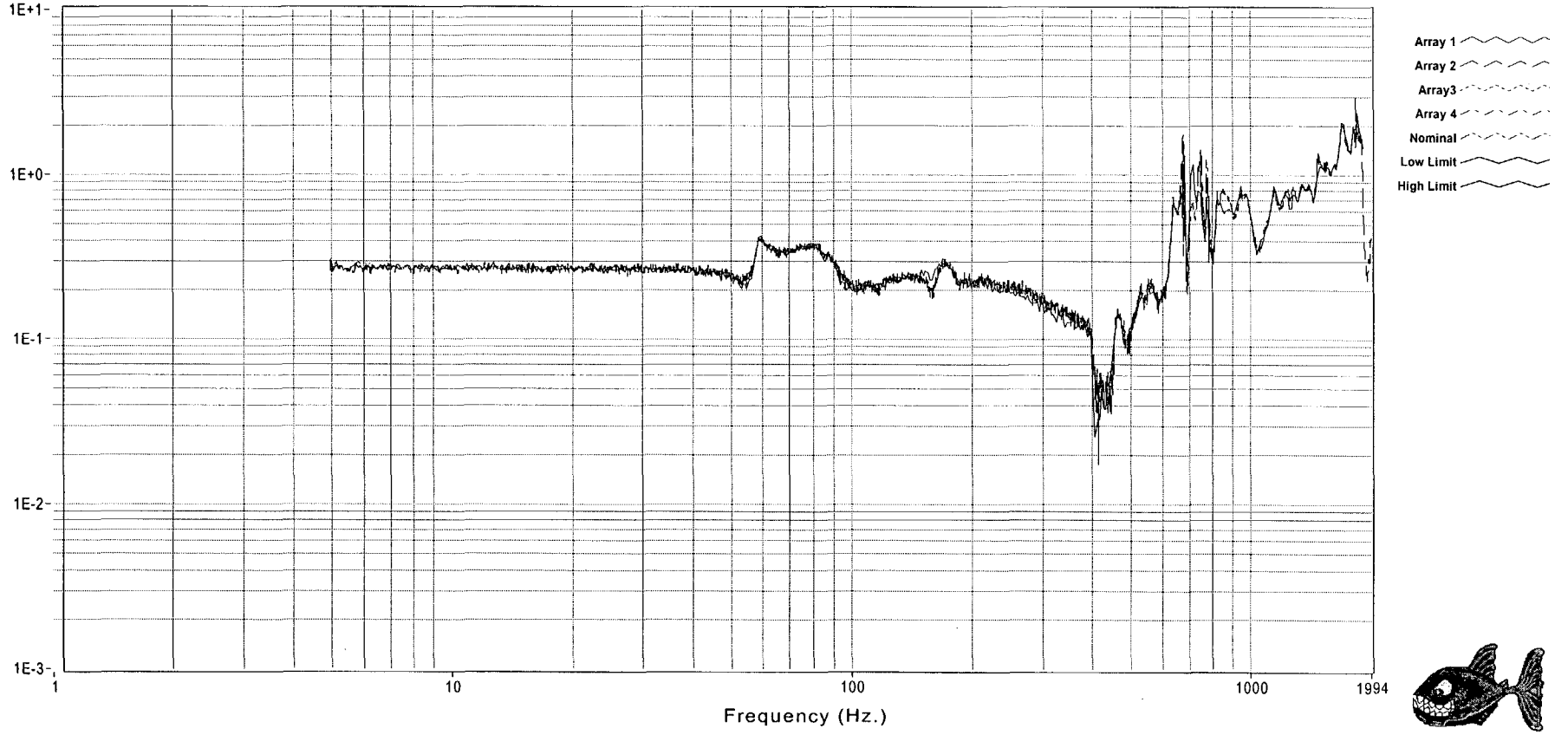
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A6 Z Channel #12	A6 Z Channel #12
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.386E+0 at 1838.0 Hz.	Maximum = 3.008E+0 at 1826.0 Hz.
Overall or RMS	N/A	N/A



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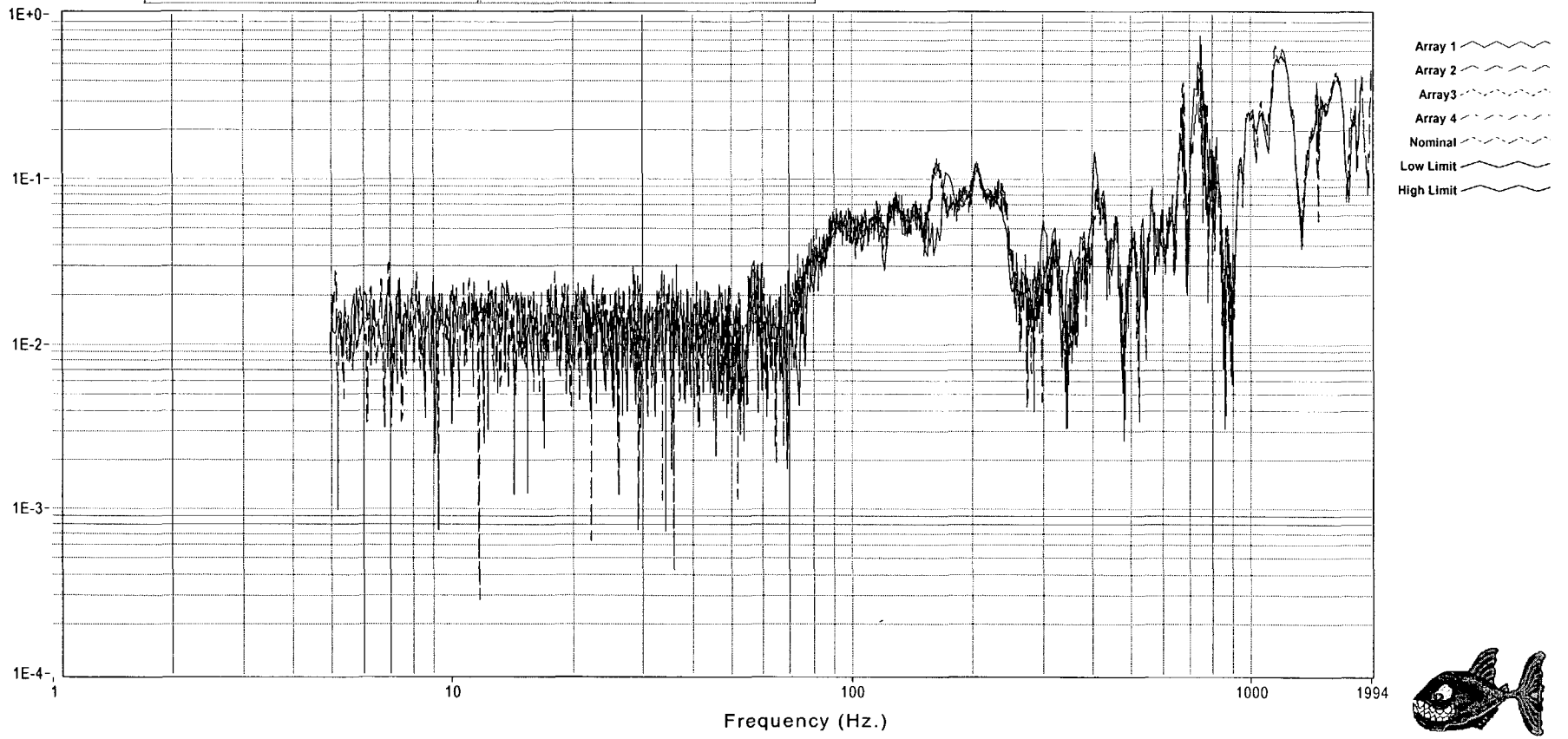
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A7 X Channel #17	A7 X Channel #17
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.243E-1 at 1198.0 Hz.	Maximum = 7.474E-1 at 746.5 Hz.
Overall or RMS	N/A	N/A



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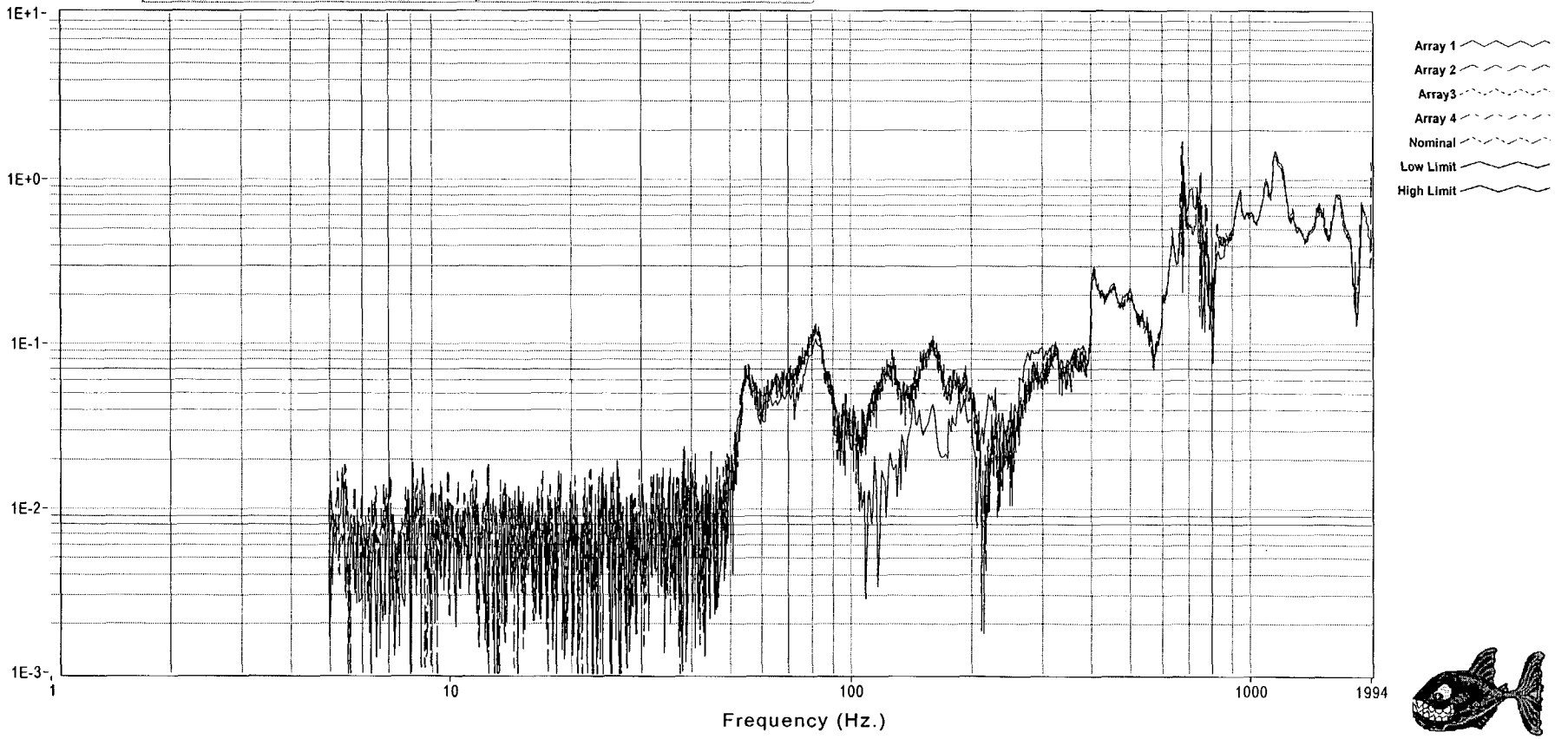
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A7 Y Channel #18	A7 Y Channel #18
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.494E+0 at 1152.0 Hz.	Maximum = 1.716E+0 at 678.9 Hz.
Overall or RMS	N/A	N/A



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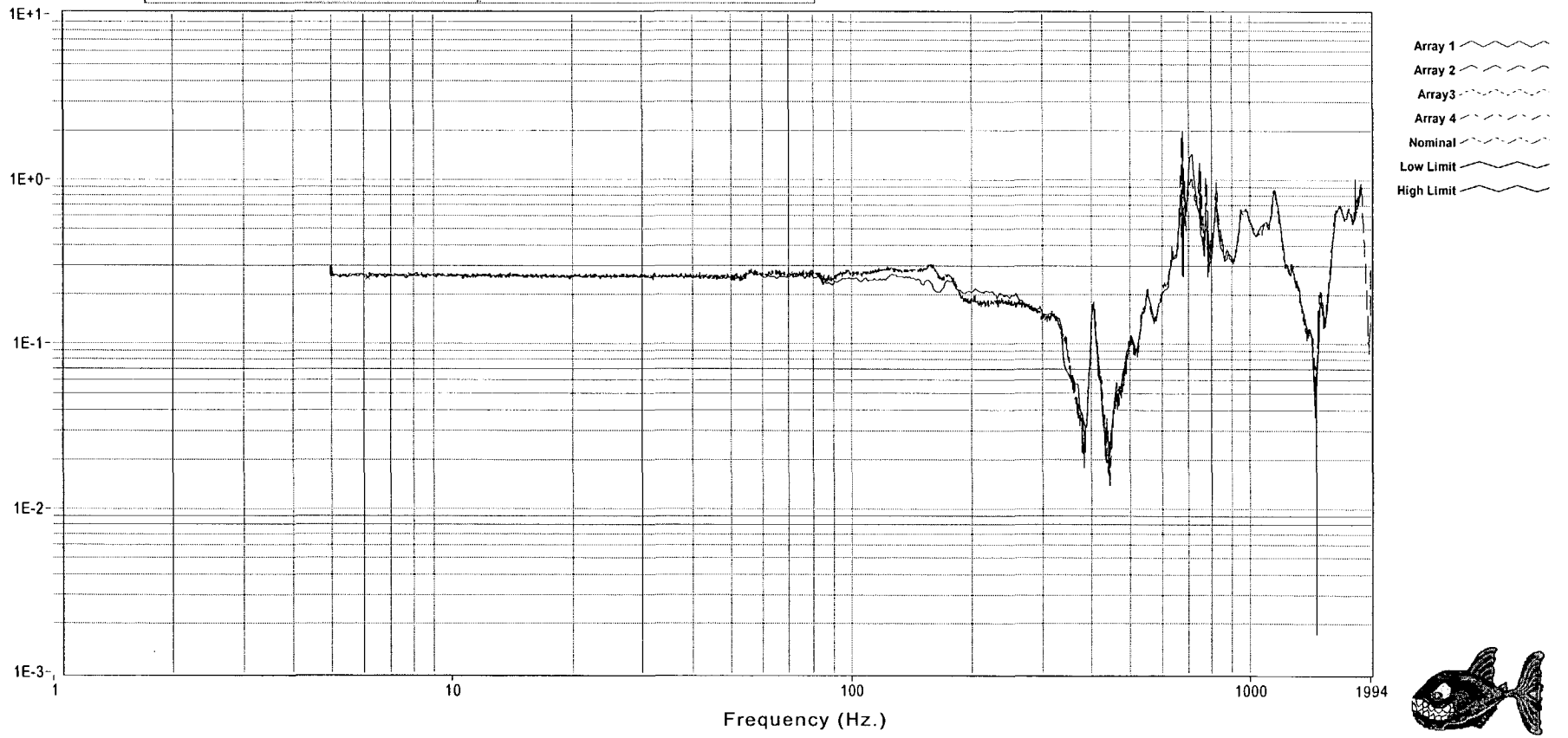
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A7 Z — Channel #19	A7 Z — Channel #19
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.446E+0 at 714.3 Hz.	Maximum = 1.989E+0 at 678.9 Hz.
Overall or RMS	N/A	N/A



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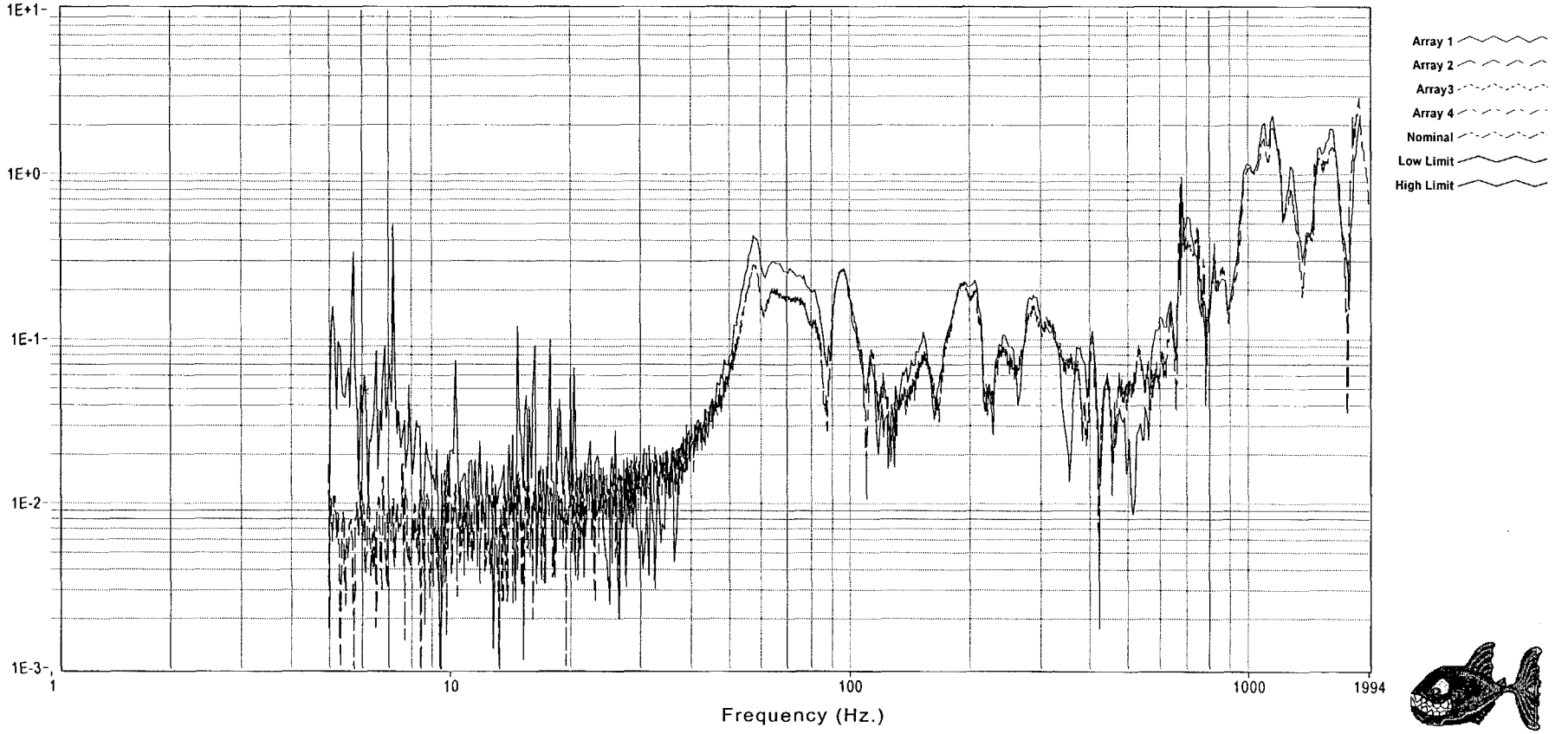
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A8 X Channel #20	A8 X Channel #20
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.270E+0 at 1152.0 Hz.	Maximum = 2.912E+0 at 1882.0 Hz.
Overall or RMS	N/A	N/A



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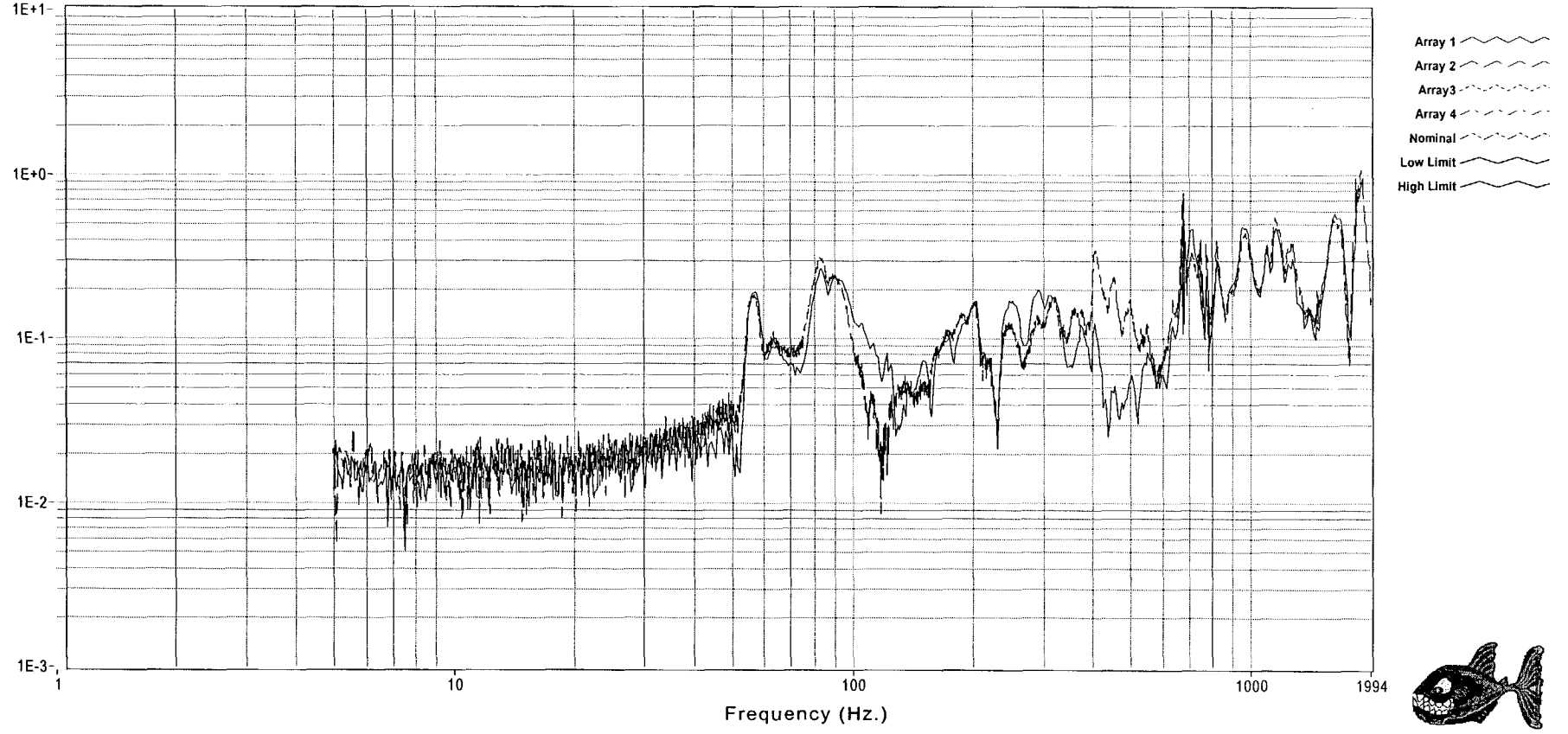
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A8 Y Channel #21	A8 Y Channel #21
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	0.01034	0.01034
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.744E-1 at 1894.0 Hz.	Maximum = 1.093E+0 at 1884.0 Hz.
Overall or RMS	N/A	N/A



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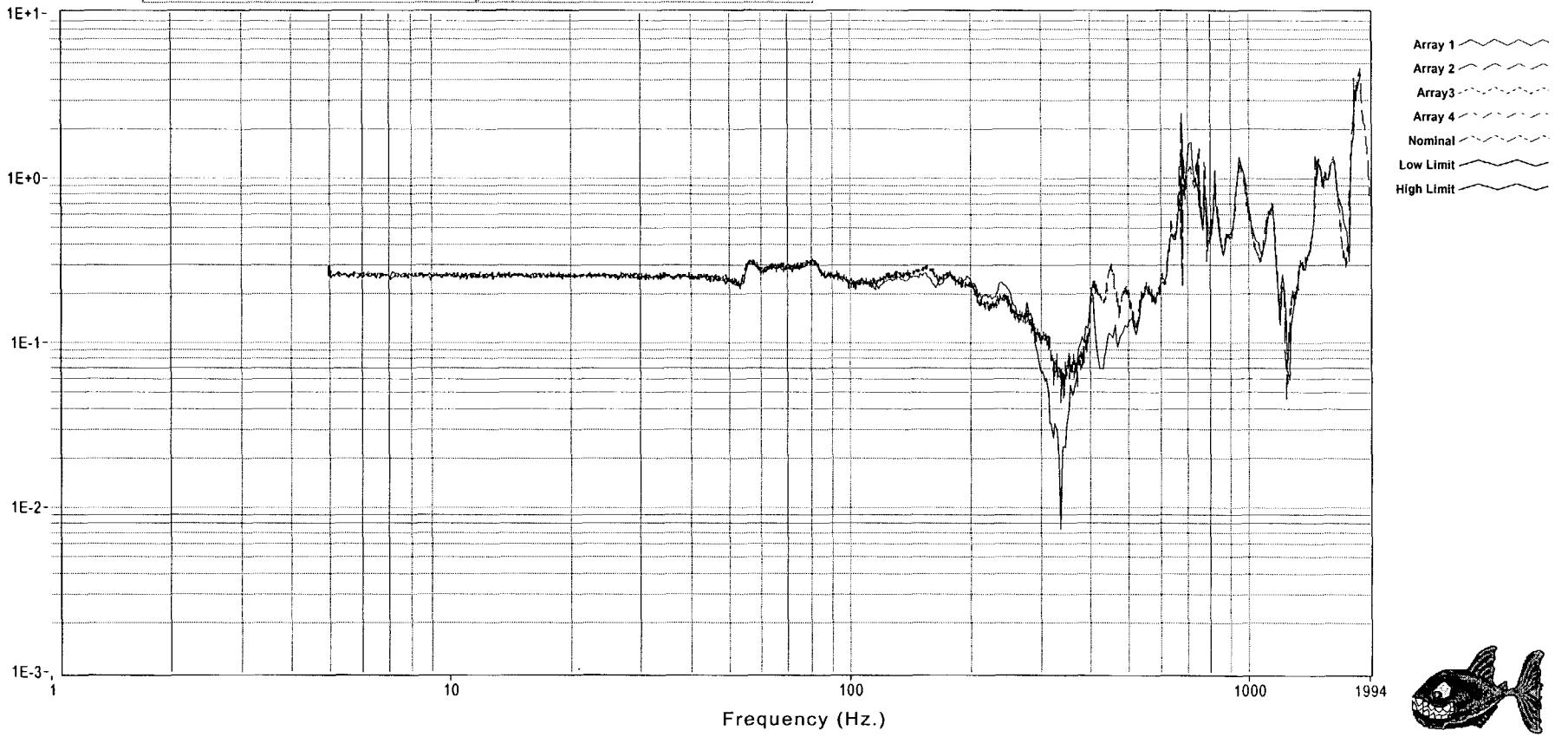
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A8 Z Channel #22	A8 Z Channel #22
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	0.01029	0.01029
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.344E+0 at 1894.0 Hz.	Maximum = 4.693E+0 at 1882.0 Hz.
Overall or RMS	N/A	N/A



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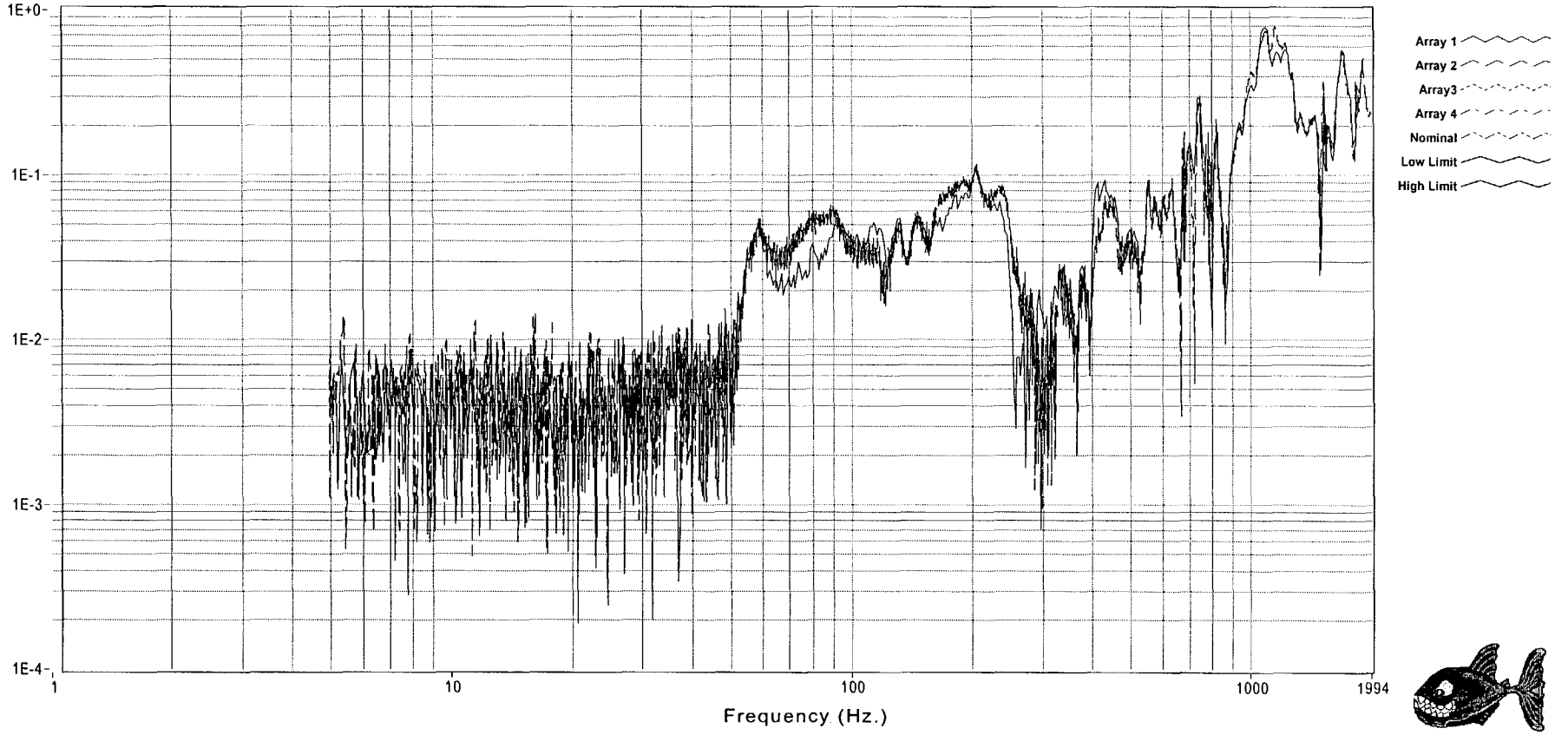
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A9 X Channel #23	A9 X Channel #23
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.887E-1 at 1085.0 Hz.	Maximum = 7.974E-1 at 1146.0 Hz.
Overall or RMS	N/A	N/A



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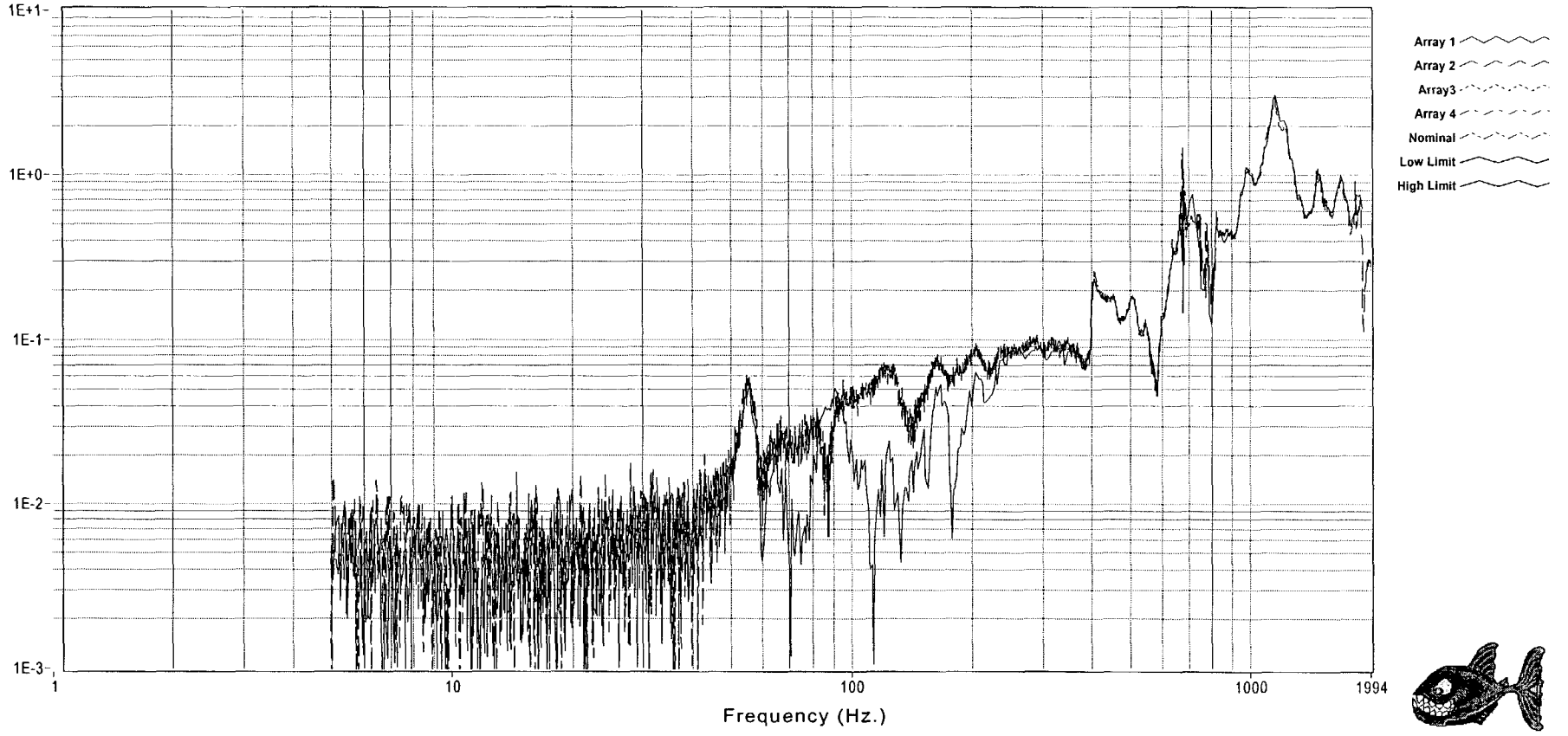
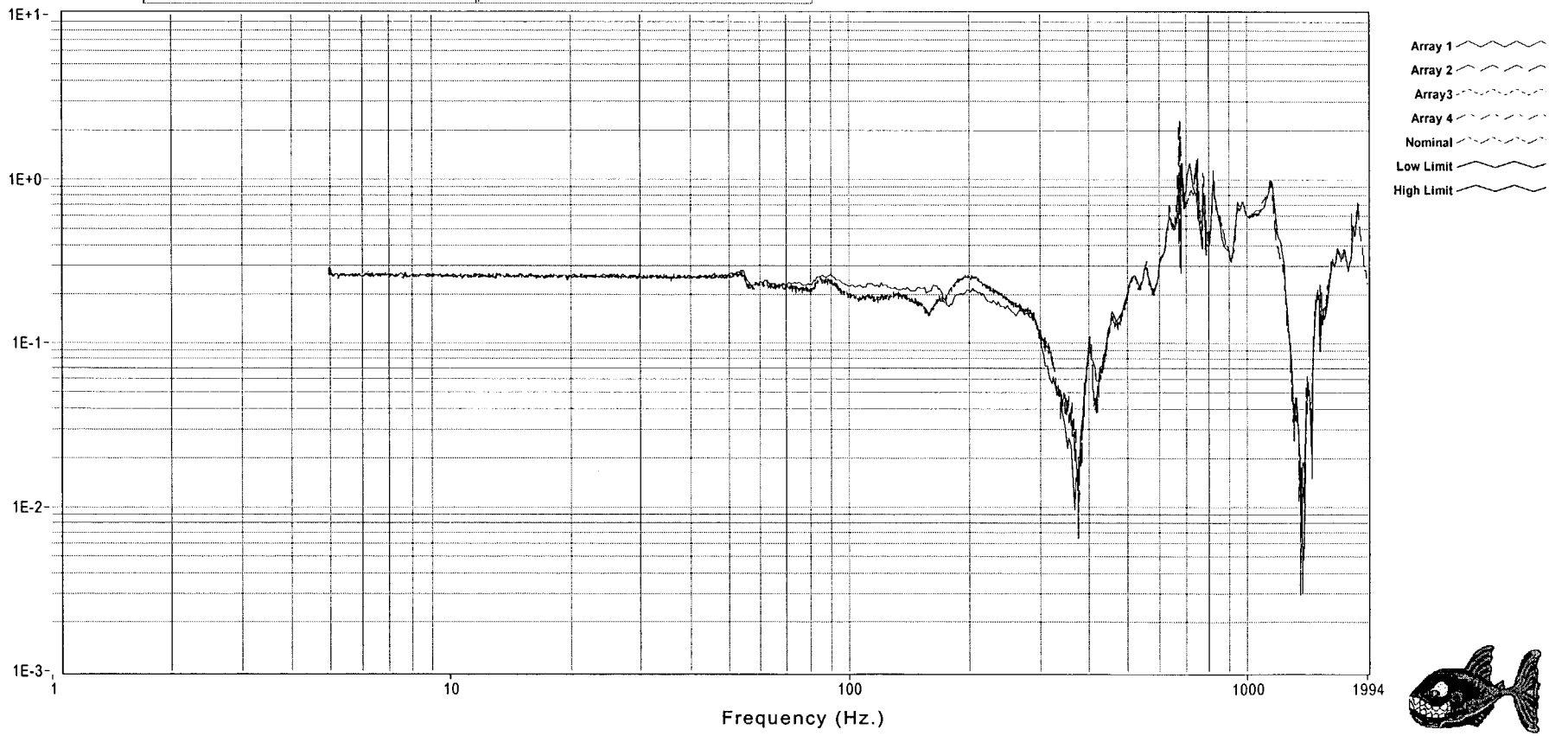
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A9 Y Channel #24	A9 Y Channel #24
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.104E+0 at 1152.0 Hz.	Maximum = 2.997E+0 at 1143.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A9 Z Channel #25	A9 Z Channel #25
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.256E+0 at 714.3 Hz.	Maximum = 2.271E+0 at 678.9 Hz.
Overall or RMS	N/A	N/A



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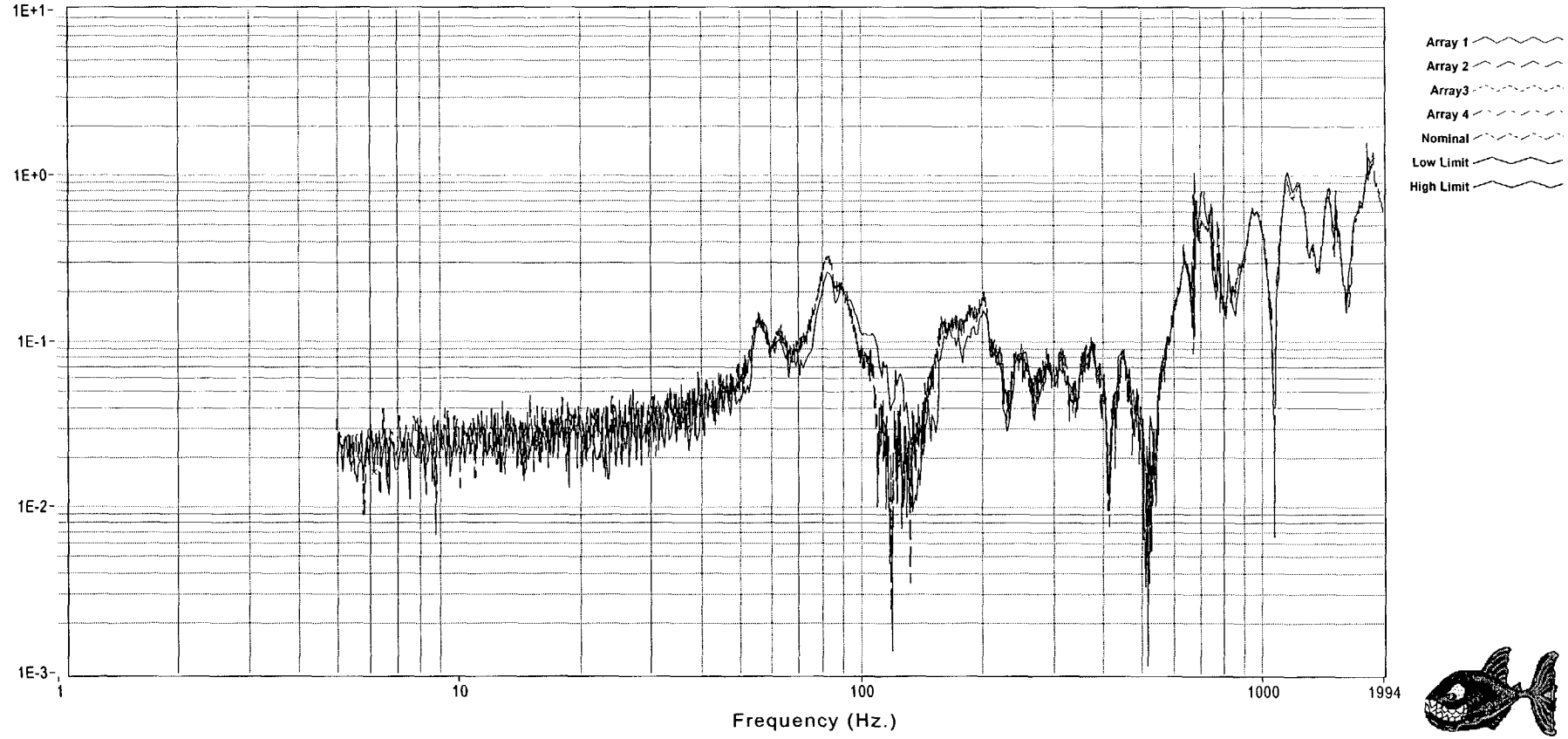
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A10 X Channel #26	A10 X Channel #26
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.308E+0 at 1838.0 Hz.	Maximum = 1.597E+0 at 1826.0 Hz.
Overall or RMS	N/A	N/A



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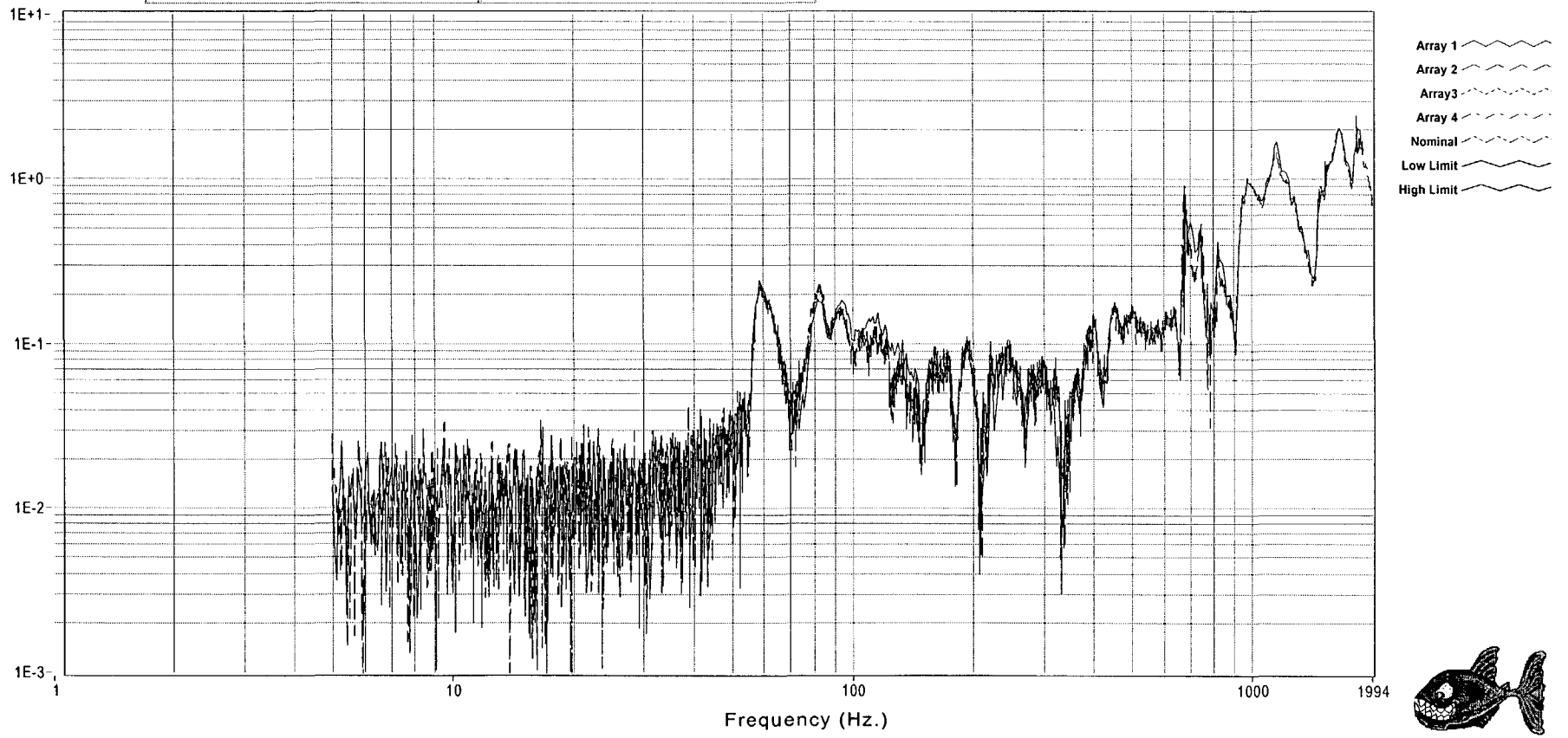
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A10 Y Channel #27	A10 Y Channel #27
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.023E+0 at 1838.0 Hz.	Maximum = 2.455E+0 at 1826.0 Hz.
Overall or RMS	N/A	N/A



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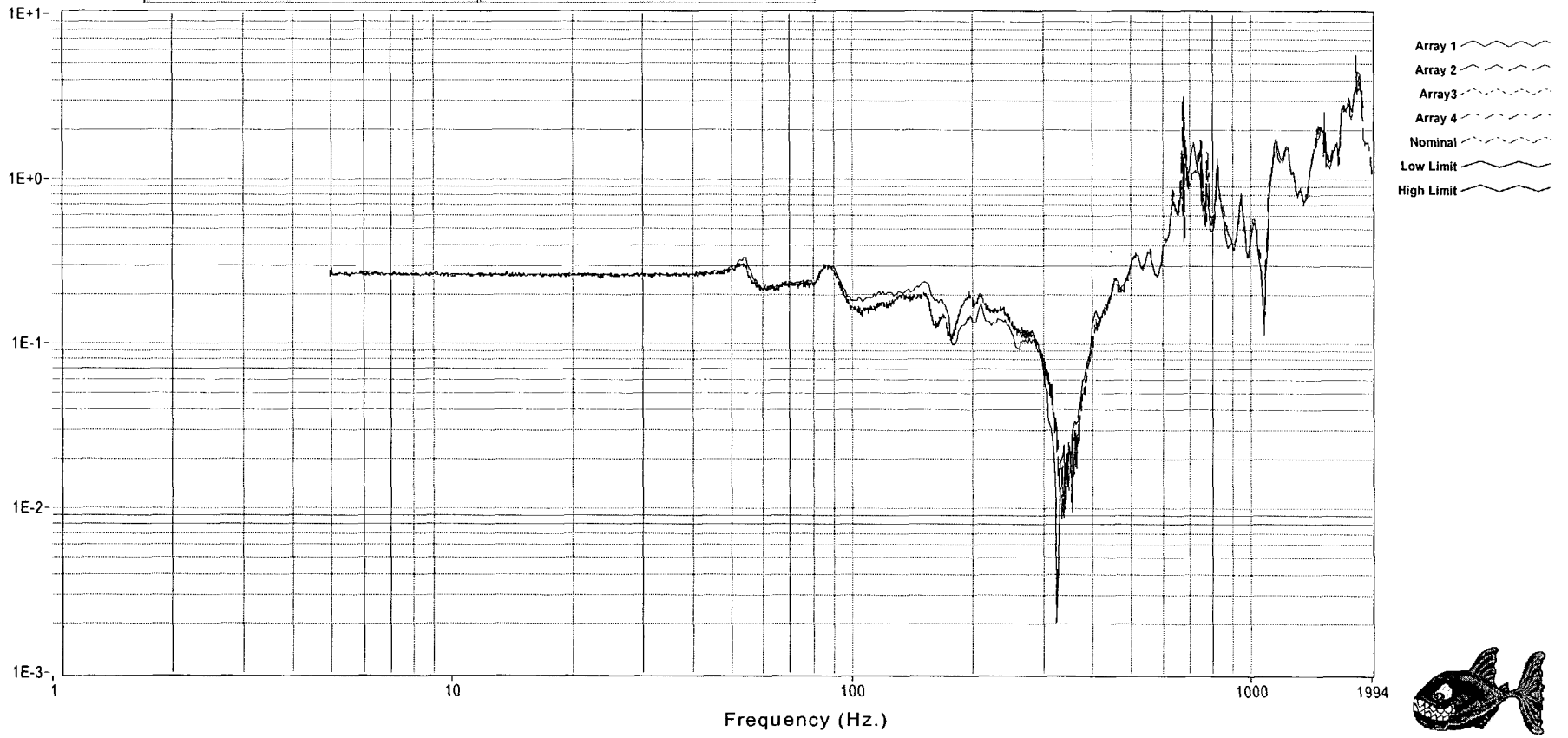
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A10 Z Channel #28	A10 Z Channel #28
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.511E+0 at 1838.0 Hz.	Maximum = 5.714E+0 at 1826.0 Hz.
Overall or RMS	N/A	N/A



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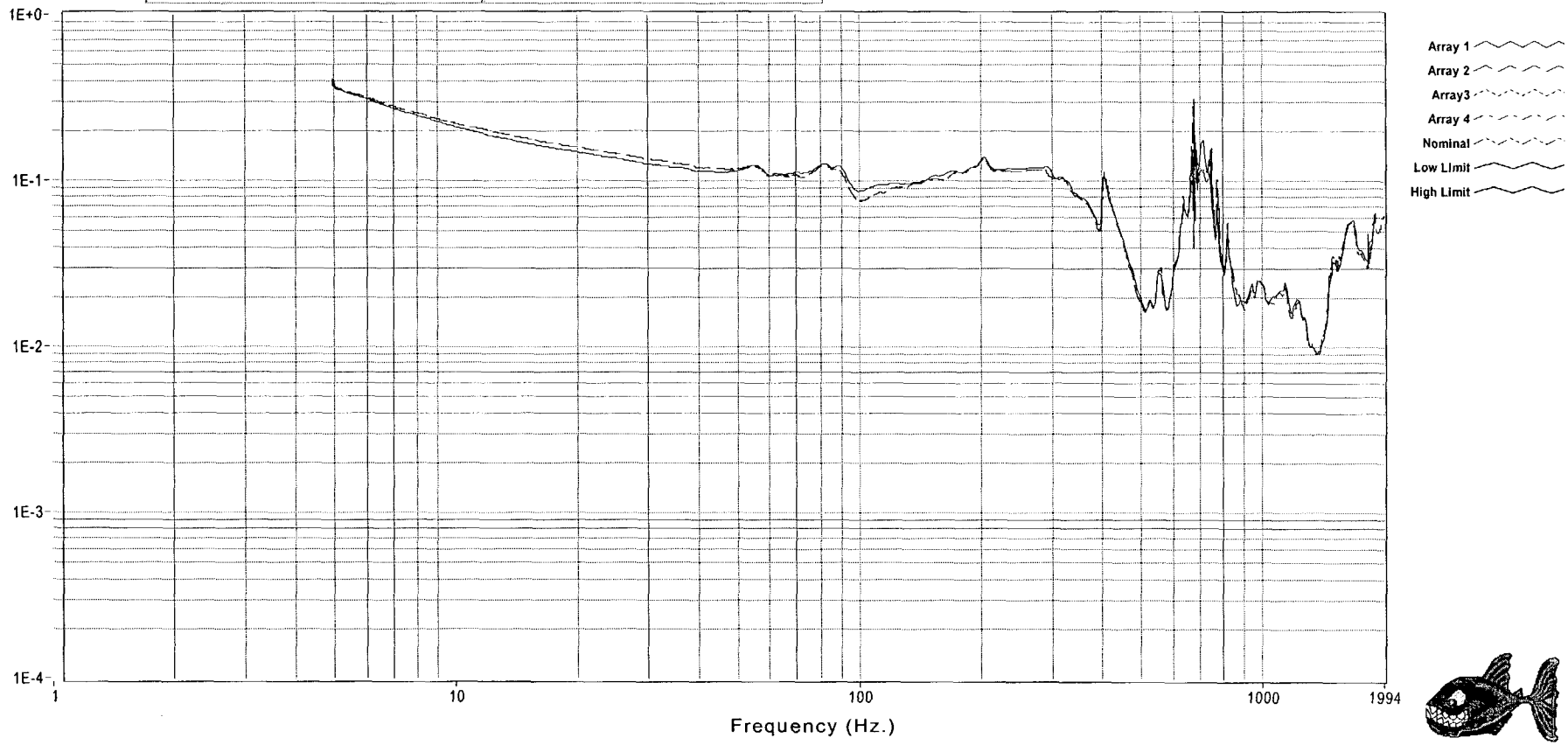
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	DRIVE Channel #31	DRIVE Channel #31
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.049E-1 at 5.0 Hz.	Maximum = 4.118E-1 at 5.0 Hz.
Overall or RMS	N/A	N/A



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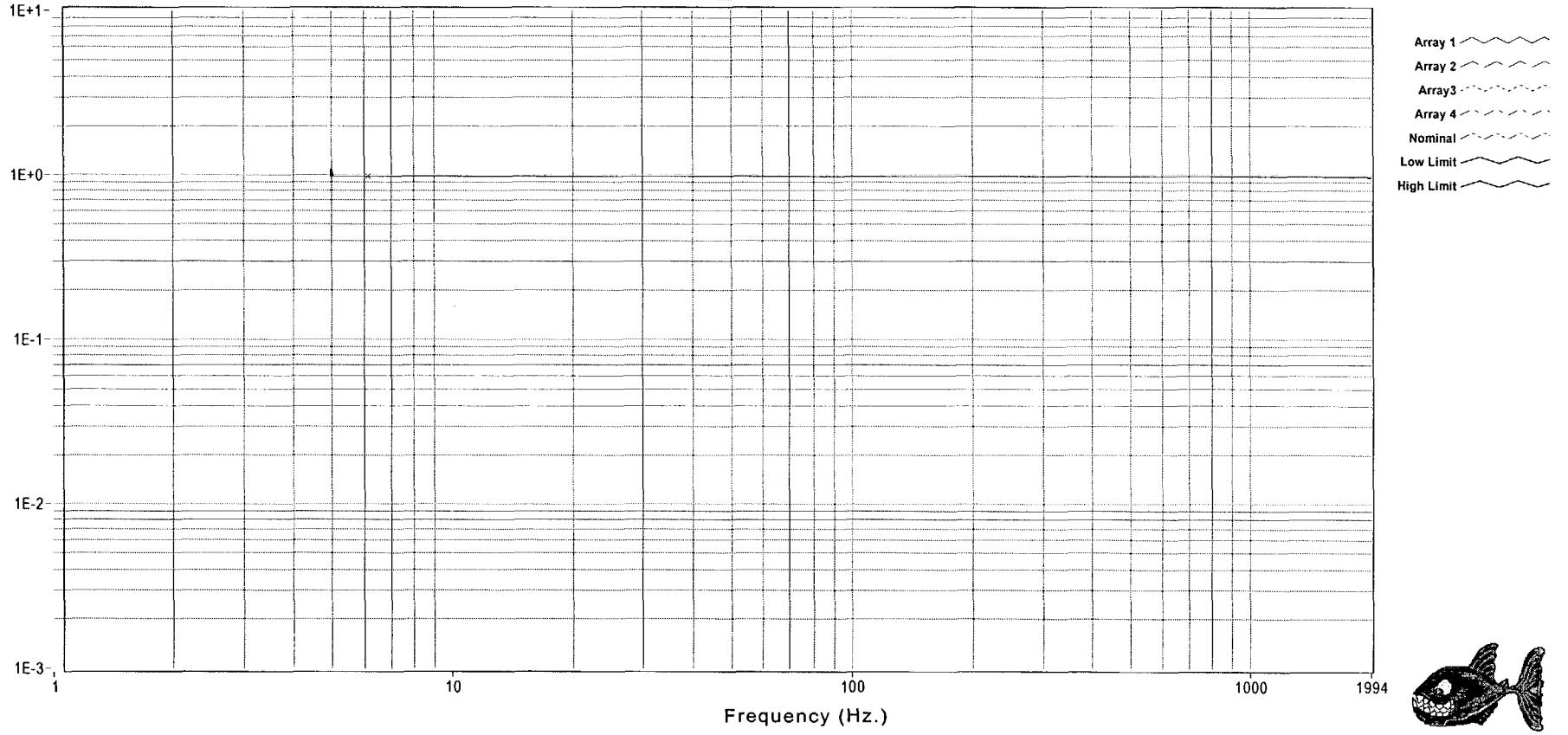
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	COLA Channel #32	COLA Channel #32
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.095E+0 at 5.0 Hz.	Maximum = 1.082E+0 at 5.0 Hz.
Overall or RMS	N/A	N/A



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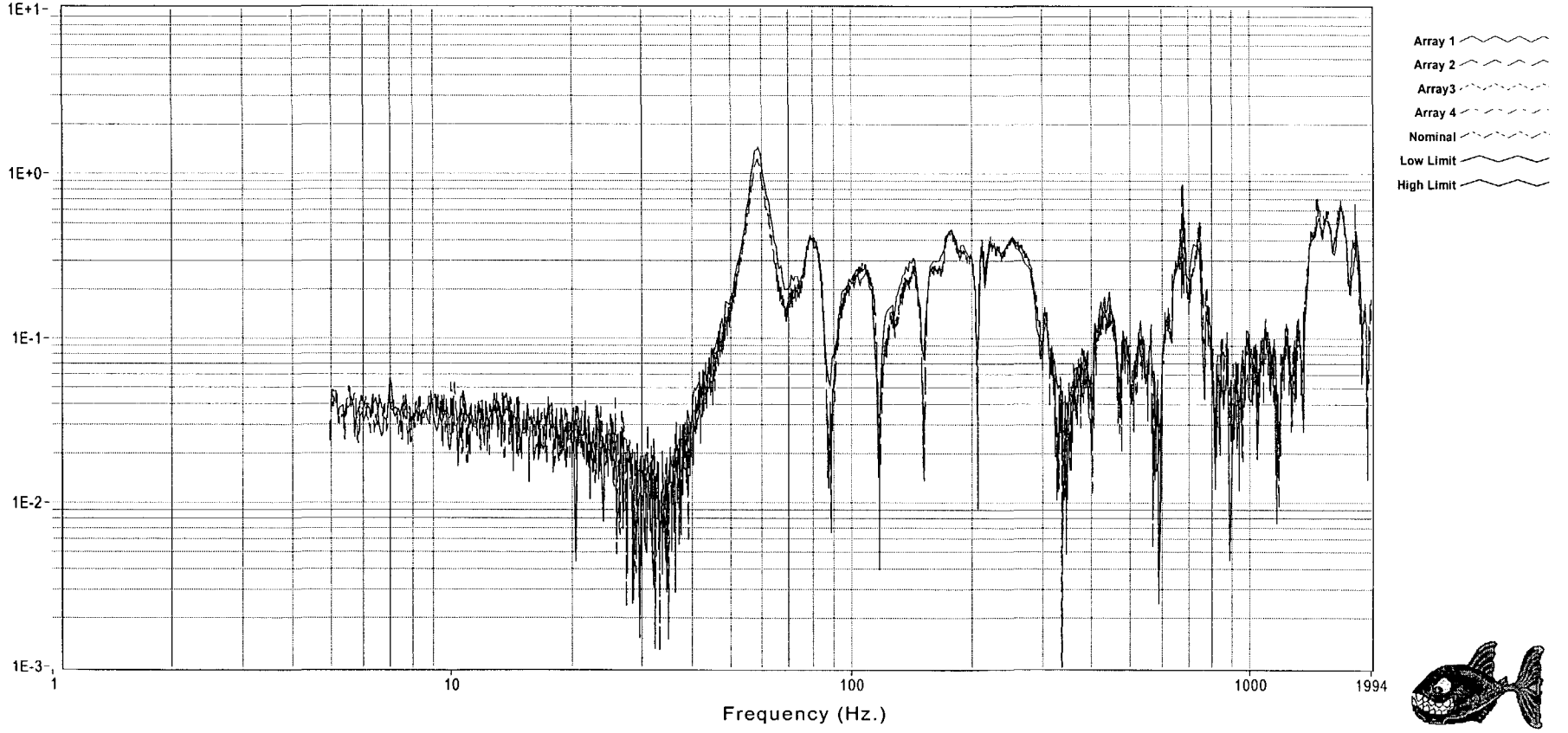
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A1X: +Y PANEL UPPER Channel #33	A1X: +Y PANEL UPPER Channel #33
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 1 SN=AE71-1	BOX 3 CH 1 SN=AE71-1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.448E+0 at 58.8 Hz.	Maximum = 1.216E+0 at 58.3 Hz.
Overall or RMS	N/A	N/A



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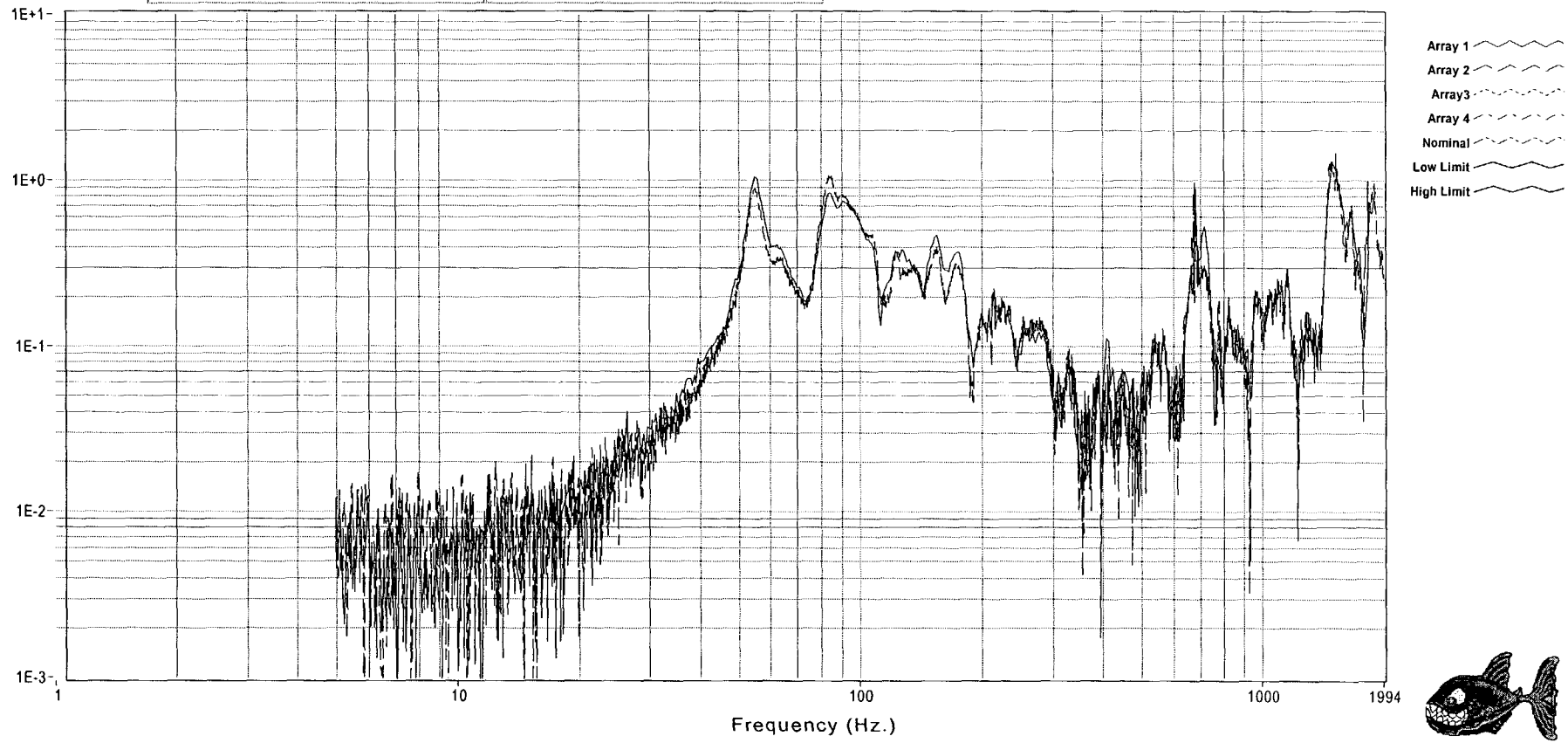
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A1Y: +Y PANEL UPPER Channel #34	A1Y: +Y PANEL UPPER Channel #34
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 2 SN=AC40	BOX 3 CH 2 SN=AC40
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.309E+0 at 1492.0 Hz.	Maximum = 1.469E+0 at 1522.0 Hz.
Overall or RMS	N/A	N/A



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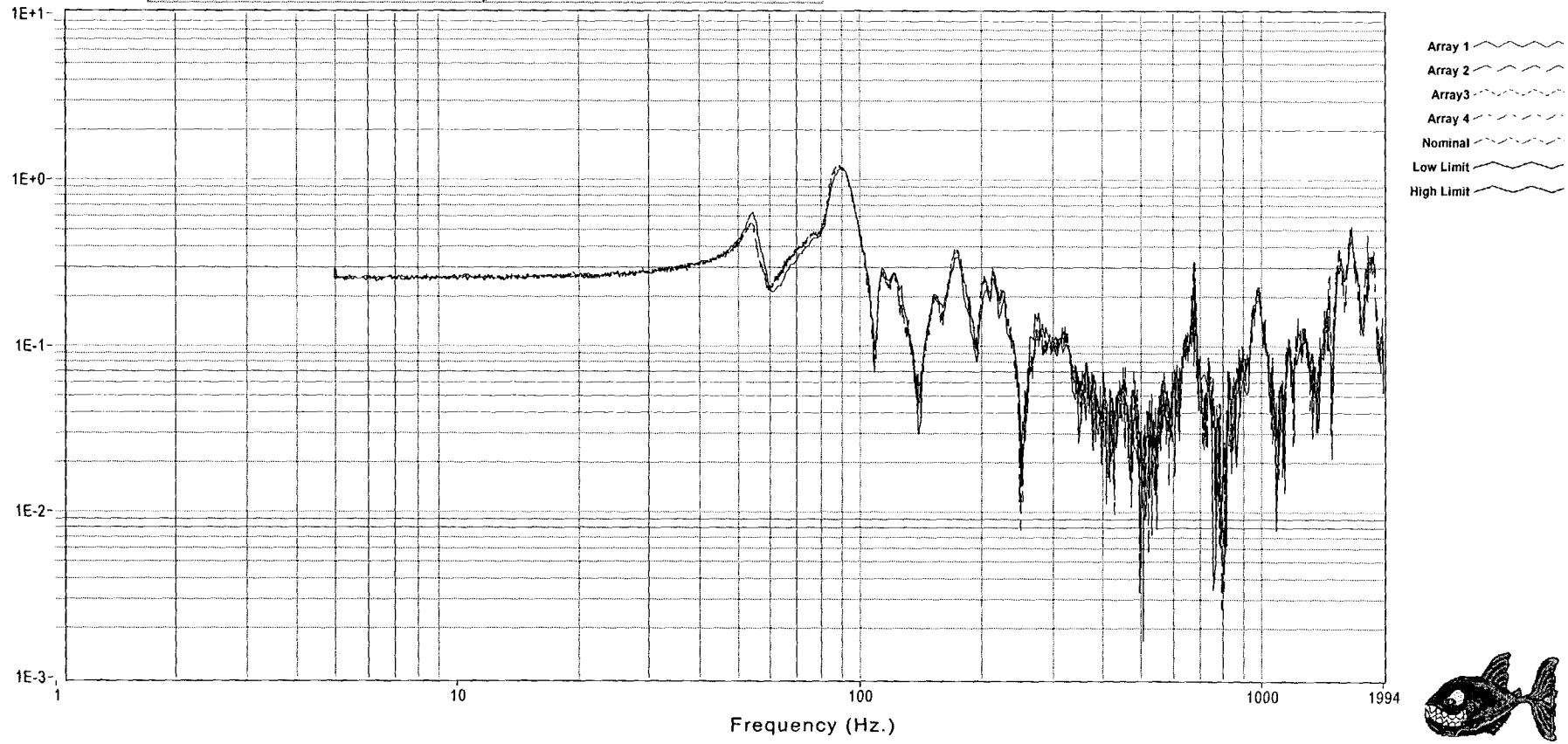
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A1Z: +Y PANEL UPPER Channel #35	A1Z: +Y PANEL UPPER Channel #35
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 3 SN=AD72	BOX 3 CH 3 SN=AD72
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.158E+0 at 89.3 Hz.	Maximum = 1.228E+0 at 89.0 Hz.
Overall or RMS	N/A	N/A



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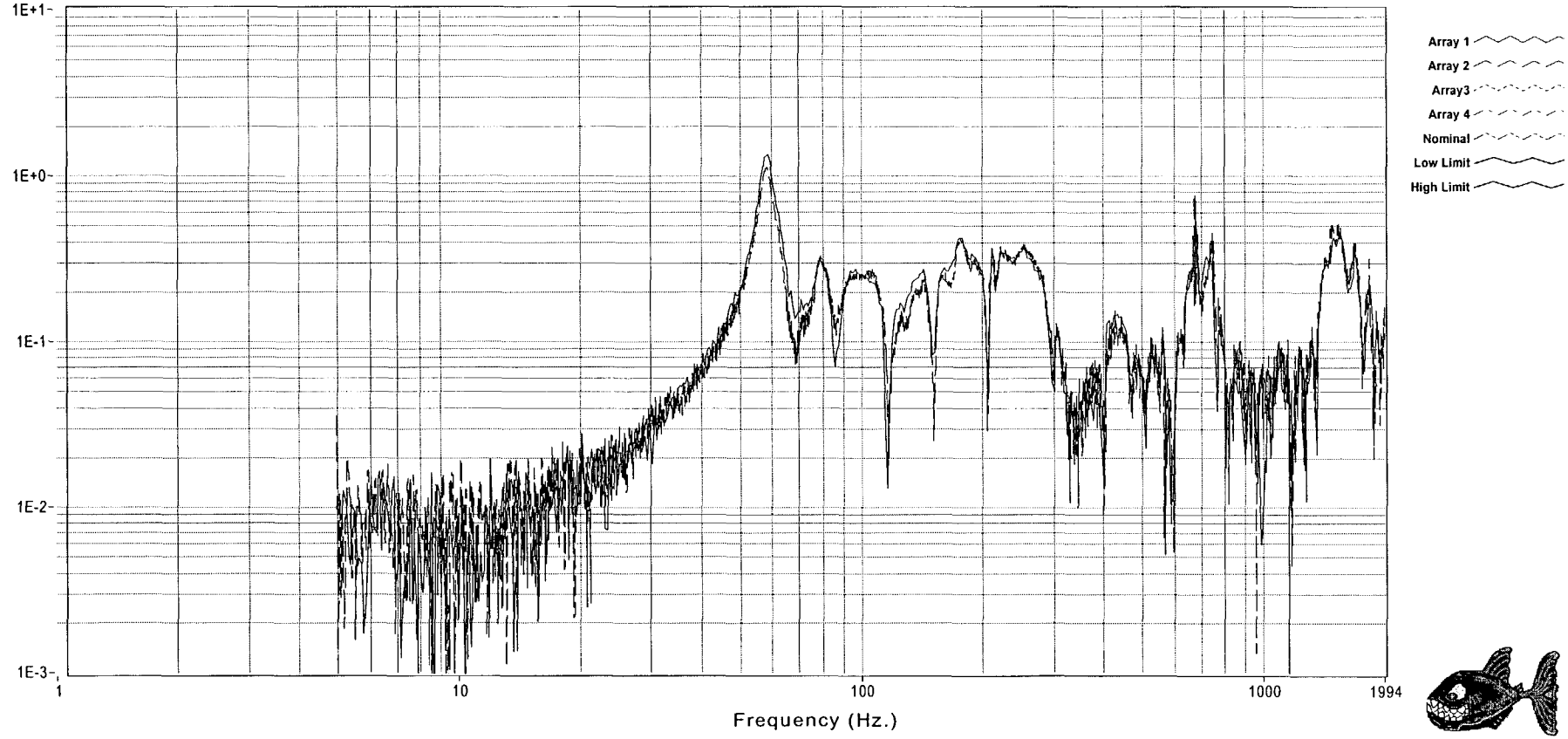
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A1RX: +Y PANEL UPPERChannel #36	A1RX: +Y PANEL UPPERChannel #36
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 4 SN=AF35	BOX 3 CH 4 SN=AF35
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.347E+0 at 58.8 Hz.	Maximum = 1.129E+0 at 58.4 Hz.
Overall or RMS	N/A	N/A



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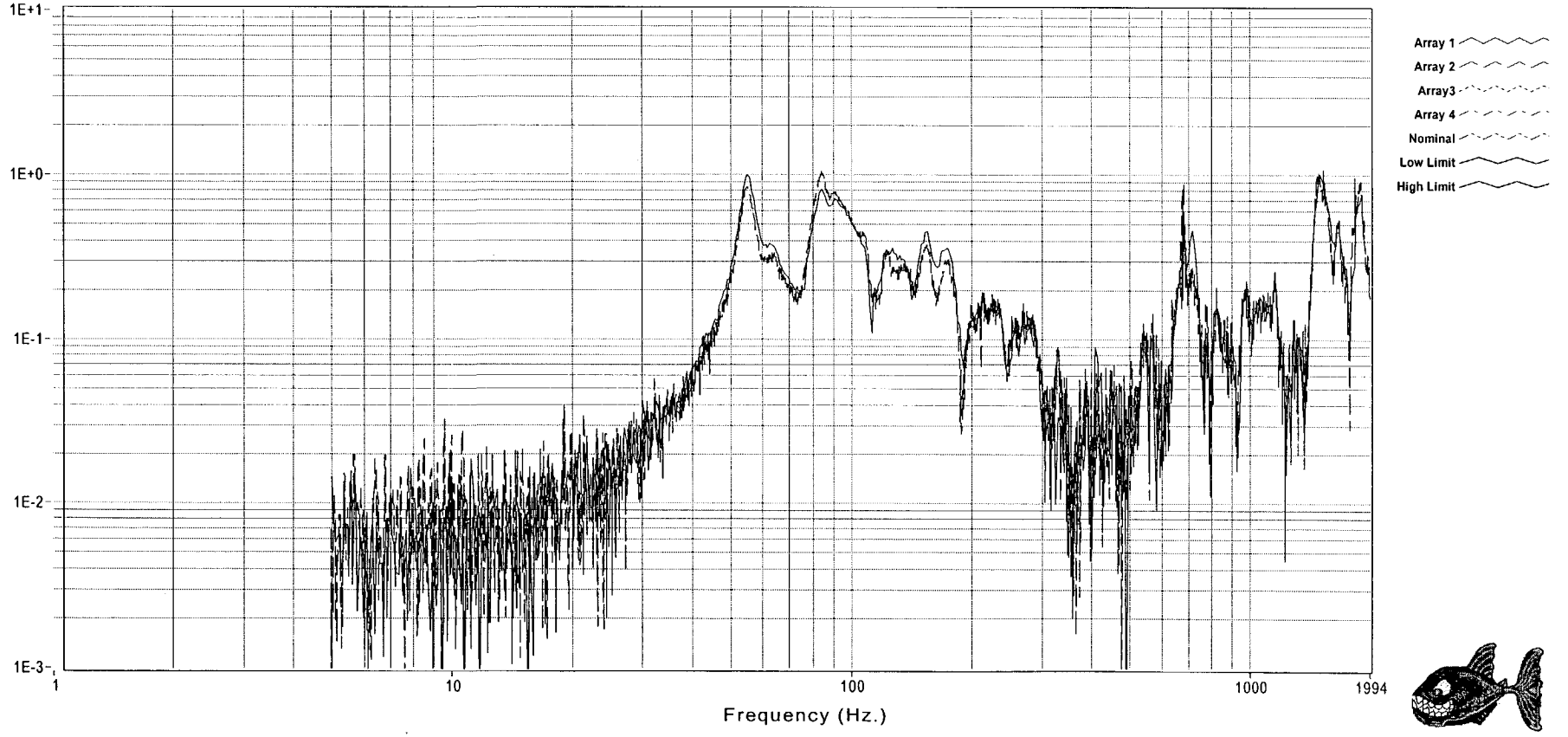
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A1RY: +Y PANEL UPPERChannel #37	A1RY: +Y PANEL UPPERChannel #37
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 5 SN=AB88	BOX 3 CH 5 SN=AB88
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.021E+0 at 1492.0 Hz.	Maximum = 1.113E+0 at 1522.0 Hz.
Overall or RMS	N/A	N/A



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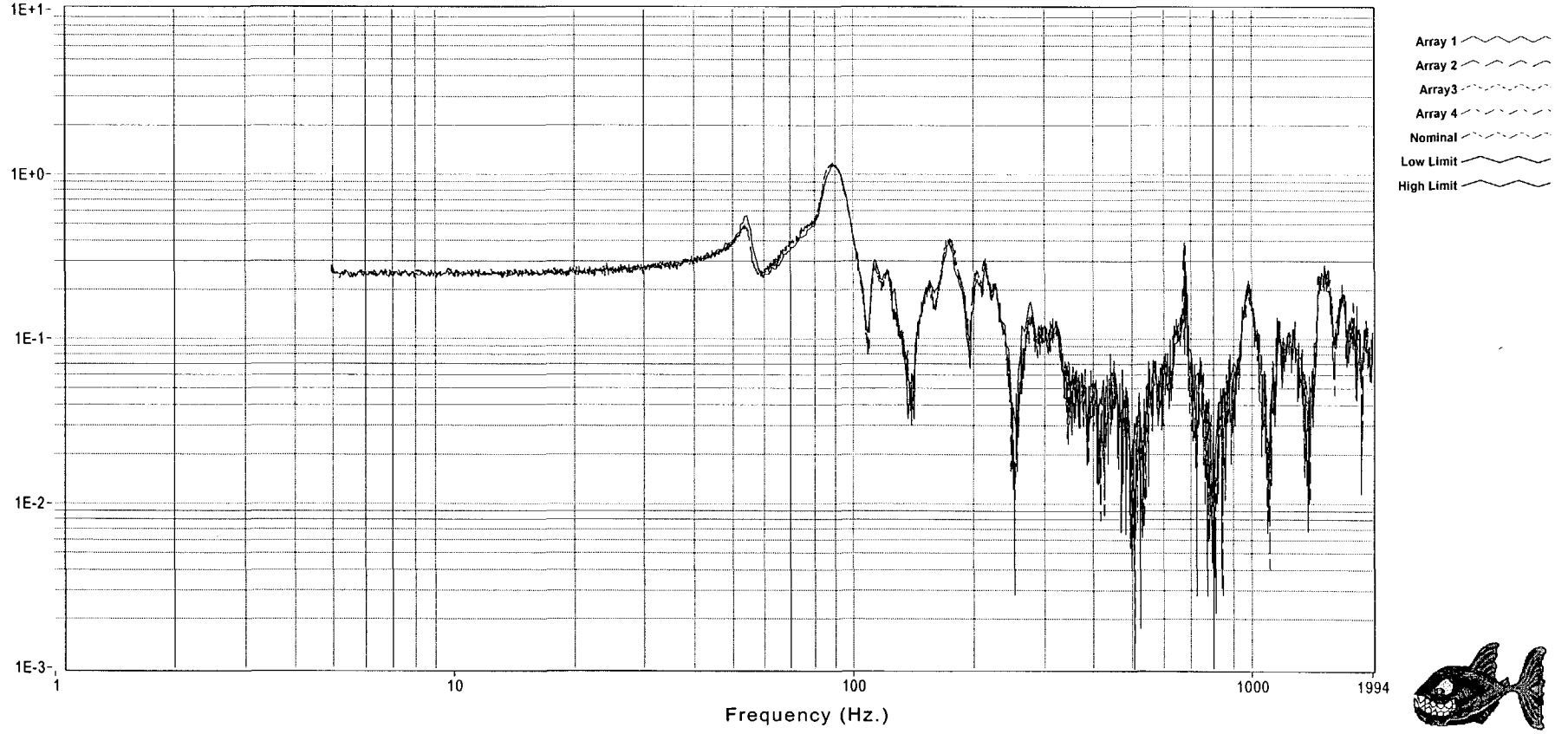
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A1RZ: +Y PANEL UPPERChannel #38	A1RZ: +Y PANEL UPPERChannel #38
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 6 SN=AG51	BOX 3 CH 6 SN=AG51
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.119E+0 at 90.2 Hz.	Maximum = 1.174E+0 at 89.0 Hz.
Overall or RMS	N/A	N/A



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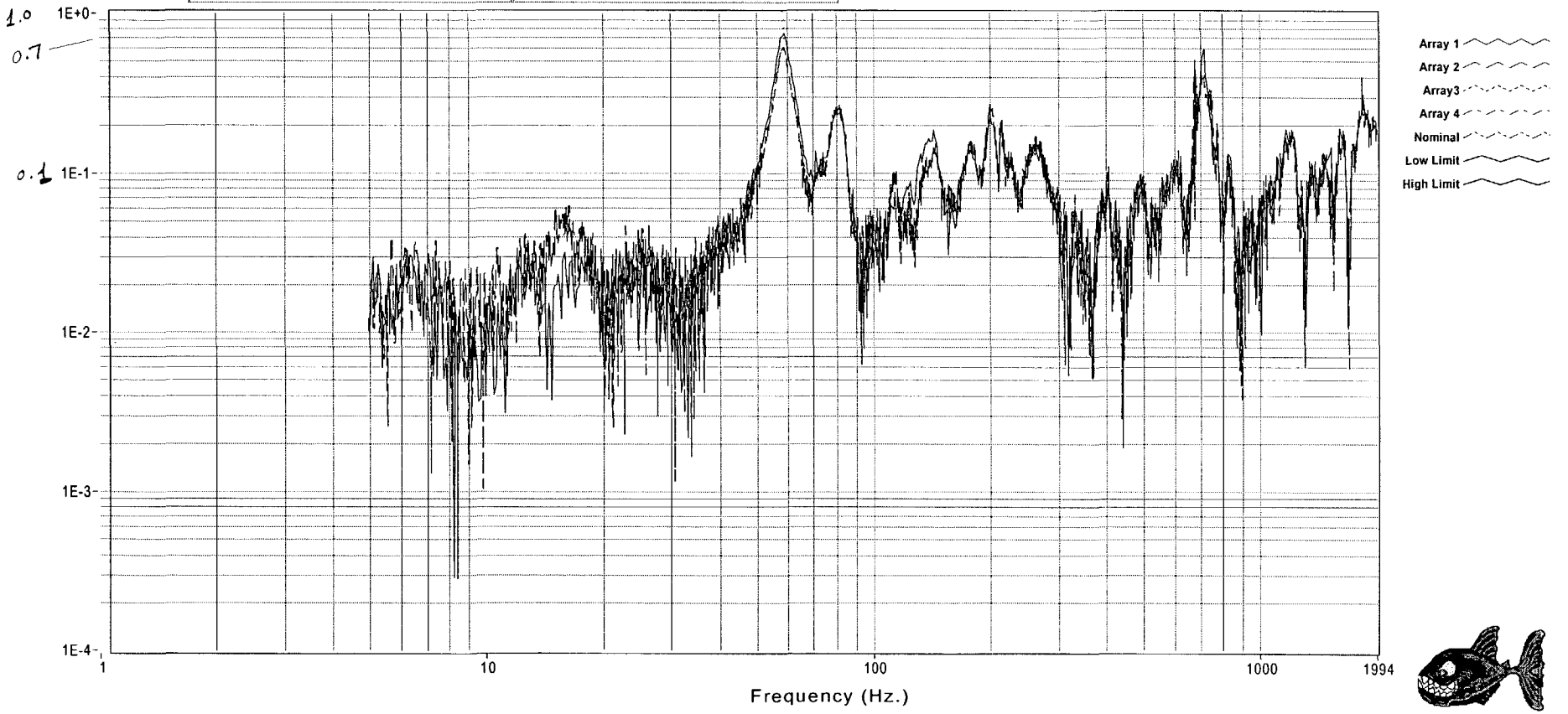
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A2X: +Y PANEL LOWER TEN Channel #39	A2X: +Y PANEL LOWER TEN Channel #39
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 7 SN=AK10	BOX 3 CH 7 SN=AK10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.475E-1 at 58.8 Hz.	Maximum = 6.169E-1 at 58.7 Hz.
Overall or RMS	N/A	N/A



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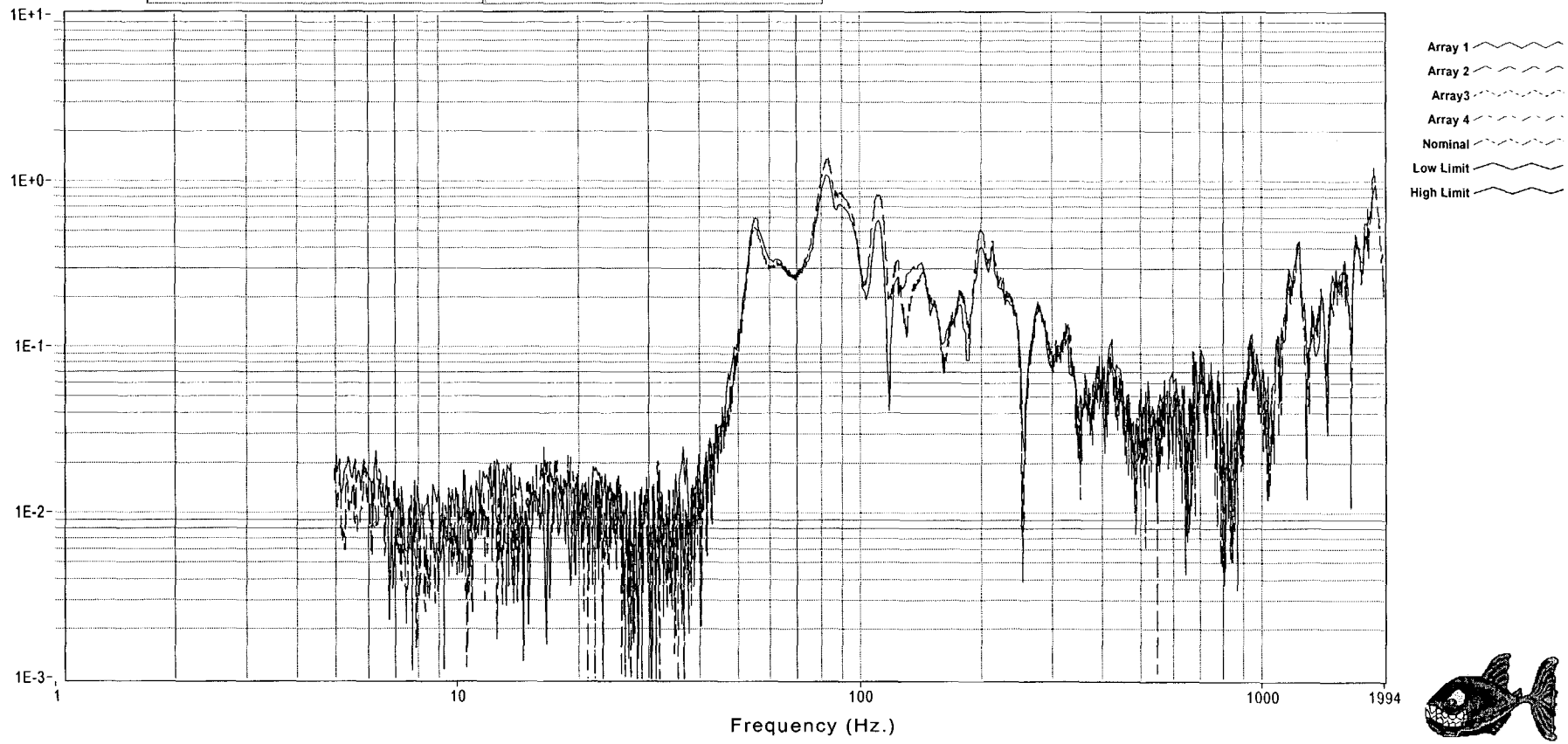
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A2Y: +Y PANEL LOWER CEN Channel #40	A2Y: +Y PANEL LOWER CEN Channel #40
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 8 SN=AB06	BOX 3 CH 8 SN=AB06
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.087E+0 at 83.3 Hz.	Maximum = 1.374E+0 at 83.5 Hz.
Overall or RMS	N/A	N/A



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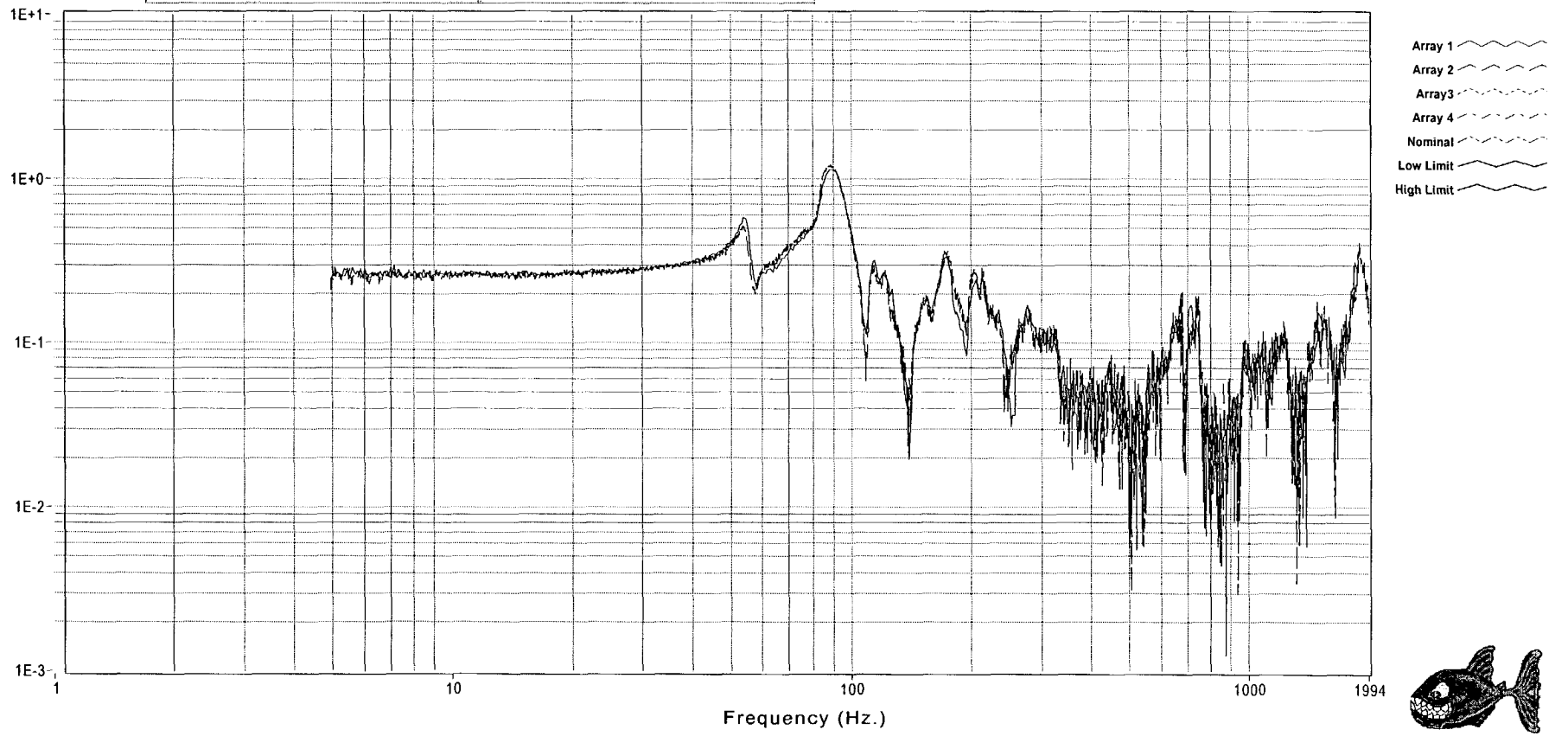
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A2Z: +Y PANEL LOWER CEU Channel #41	A2Z: +Y PANEL LOWER CEU Channel #41
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 9 SN=AF28	BOX 3 CH 9 SN=AF28
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.150E+0 at 89.3 Hz.	Maximum = 1.215E+0 at 89.0 Hz.
Overall or RMS	N/A	N/A



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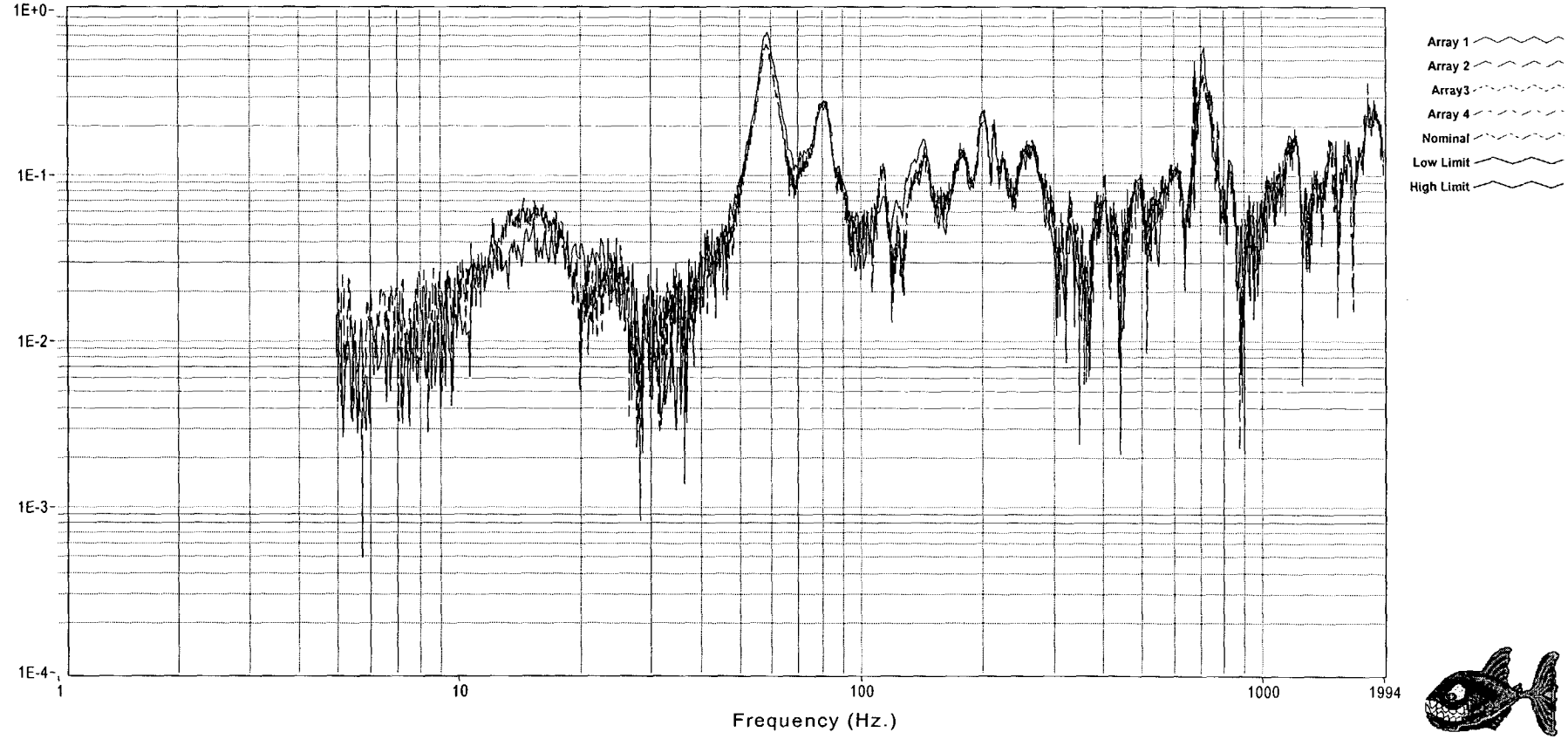
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A2RX: +Y PANEL LOWER CTE Channel #42	A2RX: +Y PANEL LOWER CTE Channel #42
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 10 SN=AJ30	BOX 3 CH 10 SN=AJ30
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.372E-1 at 58.8 Hz.	Maximum = 6.239E-1 at 58.3 Hz.
Overall or RMS	N/A	N/A



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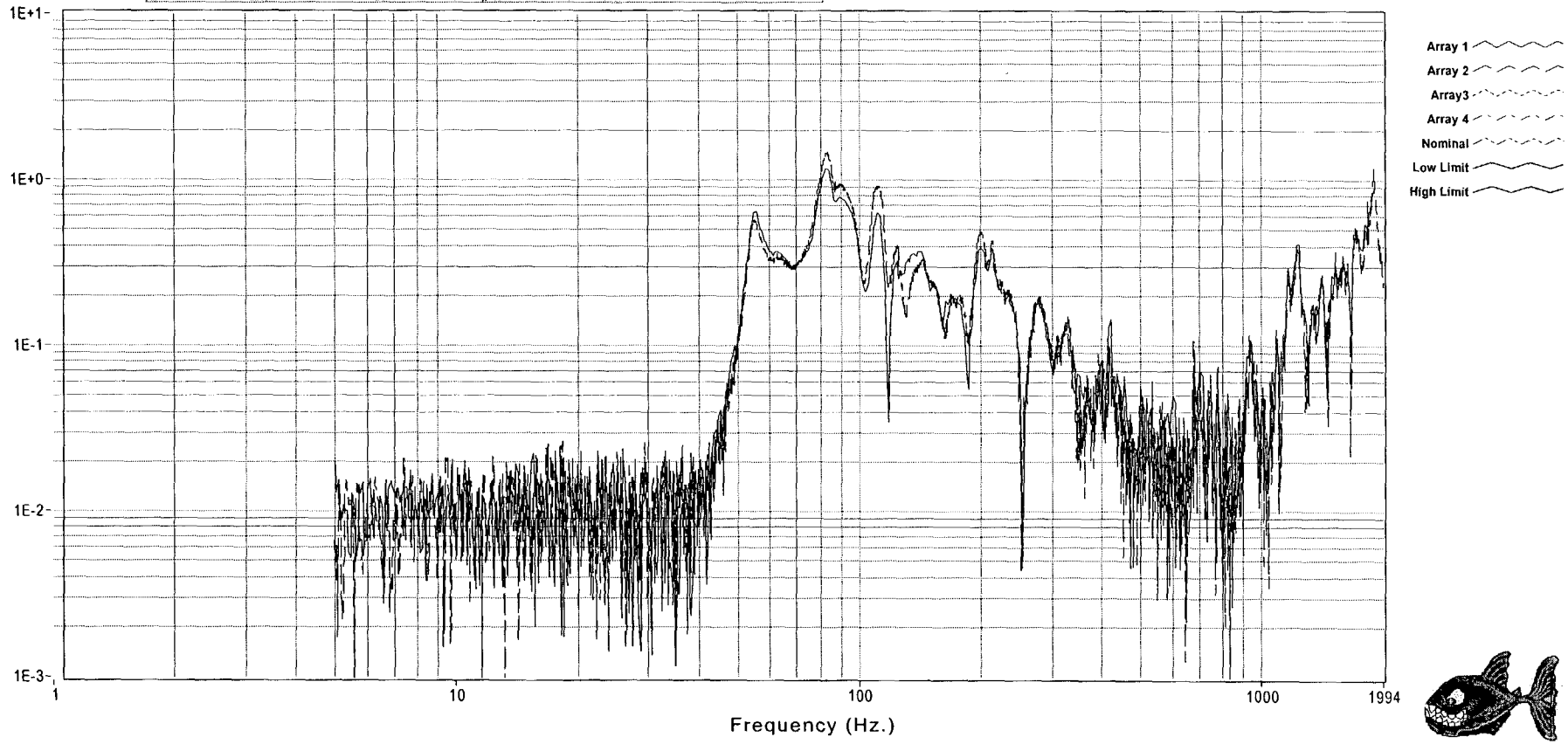
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A2RY: +Y PANEL LOWER TEAM Channel #43	A2RY: +Y PANEL LOWER TEAM Channel #43
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 11 SN=AE60	BOX 3 CH 11 SN=AE60
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.170E+0 at 82.4 Hz.	Maximum = 1.483E+0 at 83.5 Hz.
Overall or RMS	N/A	N/A



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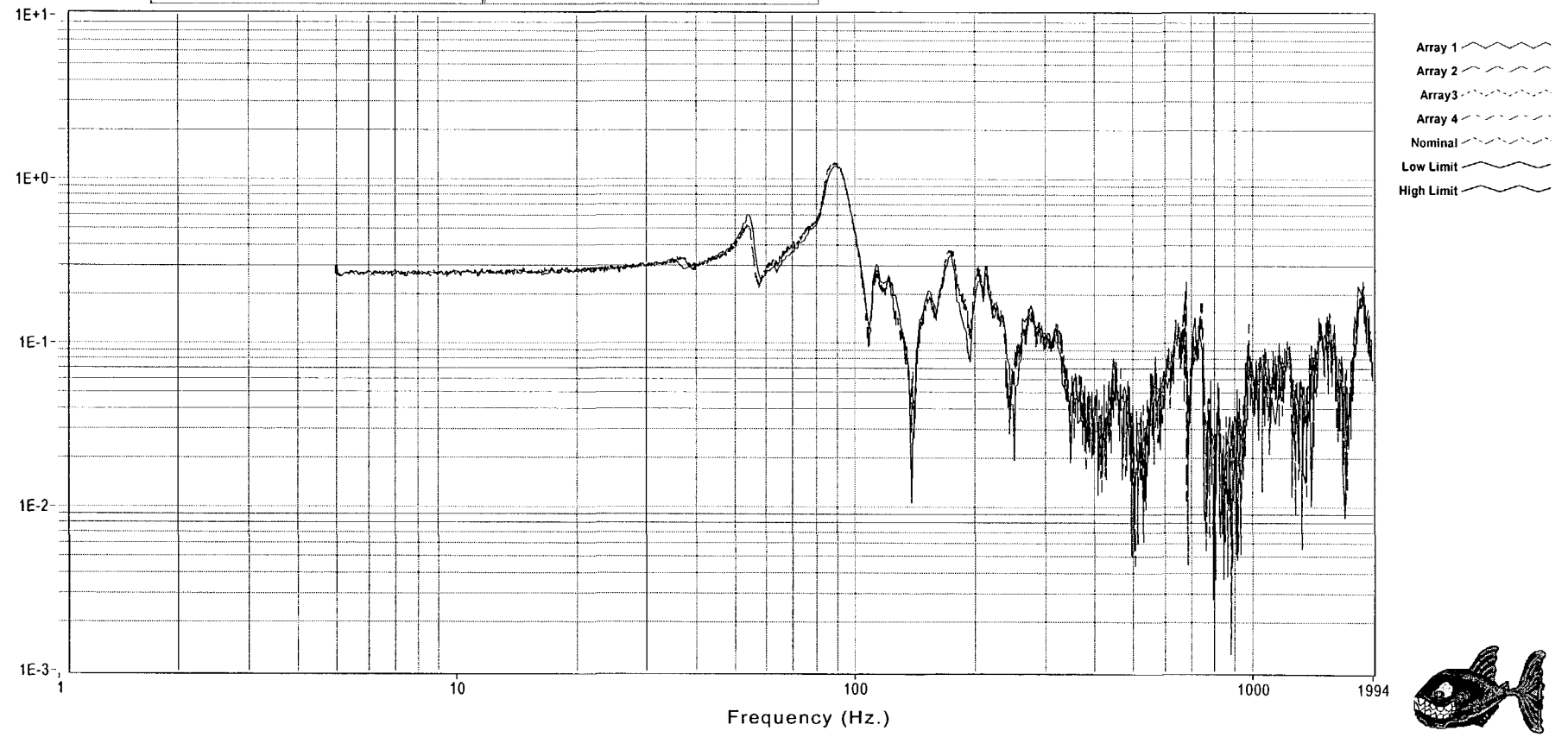
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A2RZ: +Y PANEL LOWER CENTER Channel #44	A2RZ: +Y PANEL LOWER CENTER Channel #44
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 12 SN=AG01	BOX 3 CH 12 SN=AG01
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.205E+0 at 90.2 Hz.	Maximum = 1.260E+0 at 89.0 Hz.
Overall or RMS	N/A	N/A



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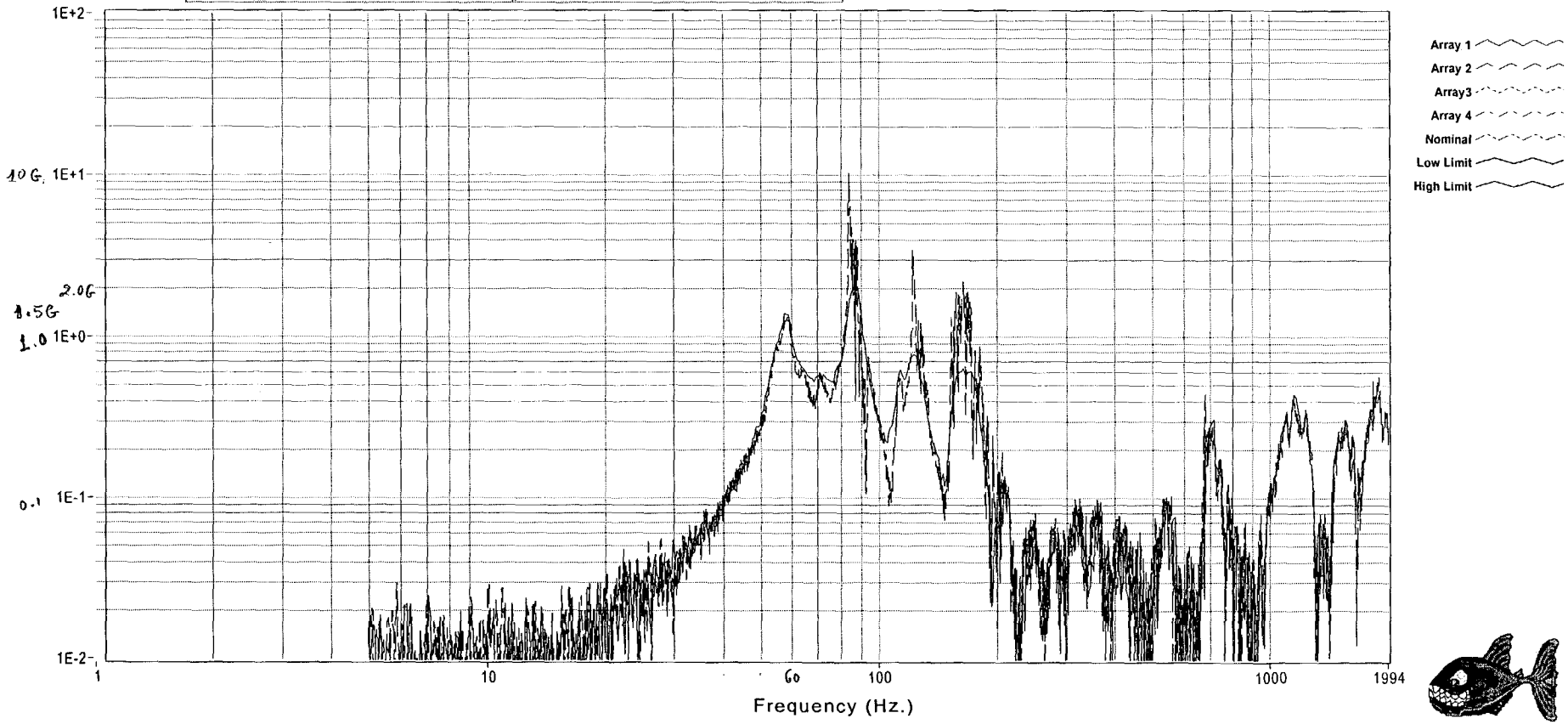
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A3X: +X PANEL UPPER CCChannel #45	A3X: +X PANEL UPPER CCChannel #45
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 13 SN=BC39
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.021E+0 at 87.5 Hz.	Maximum = 1.039E+1 at 84.1 Hz.
Overall or RMS	N/A	N/A



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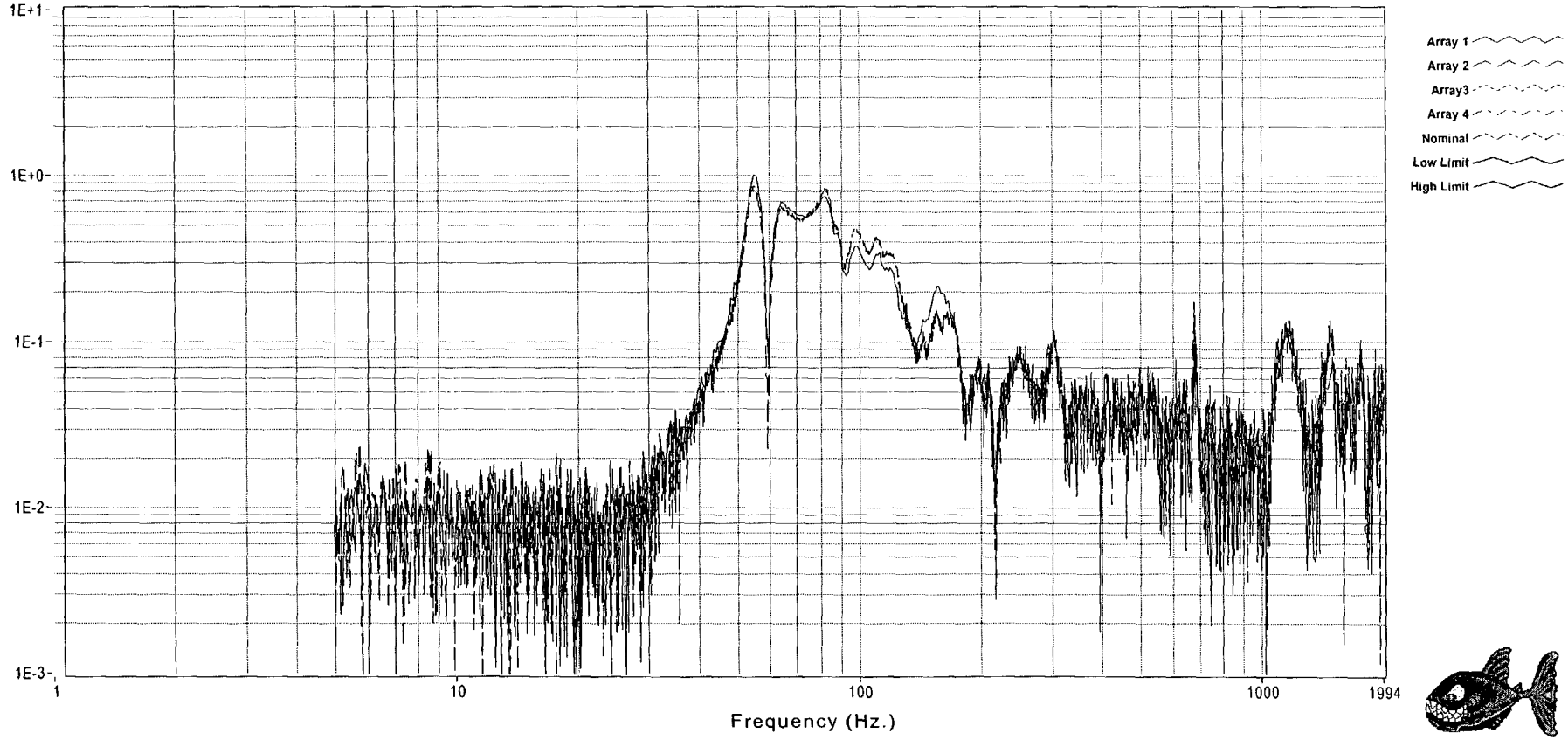
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A3Y: +X PANEL UPPER CCChannel #46	A3Y: +X PANEL UPPER CCChannel #46
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 14 SN=AG02	BOX 3 CH 14 SN=AG02
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.012E+0 at 54.8 Hz.	Maximum = 8.724E-1 at 54.8 Hz.
Overall or RMS	N/A	N/A



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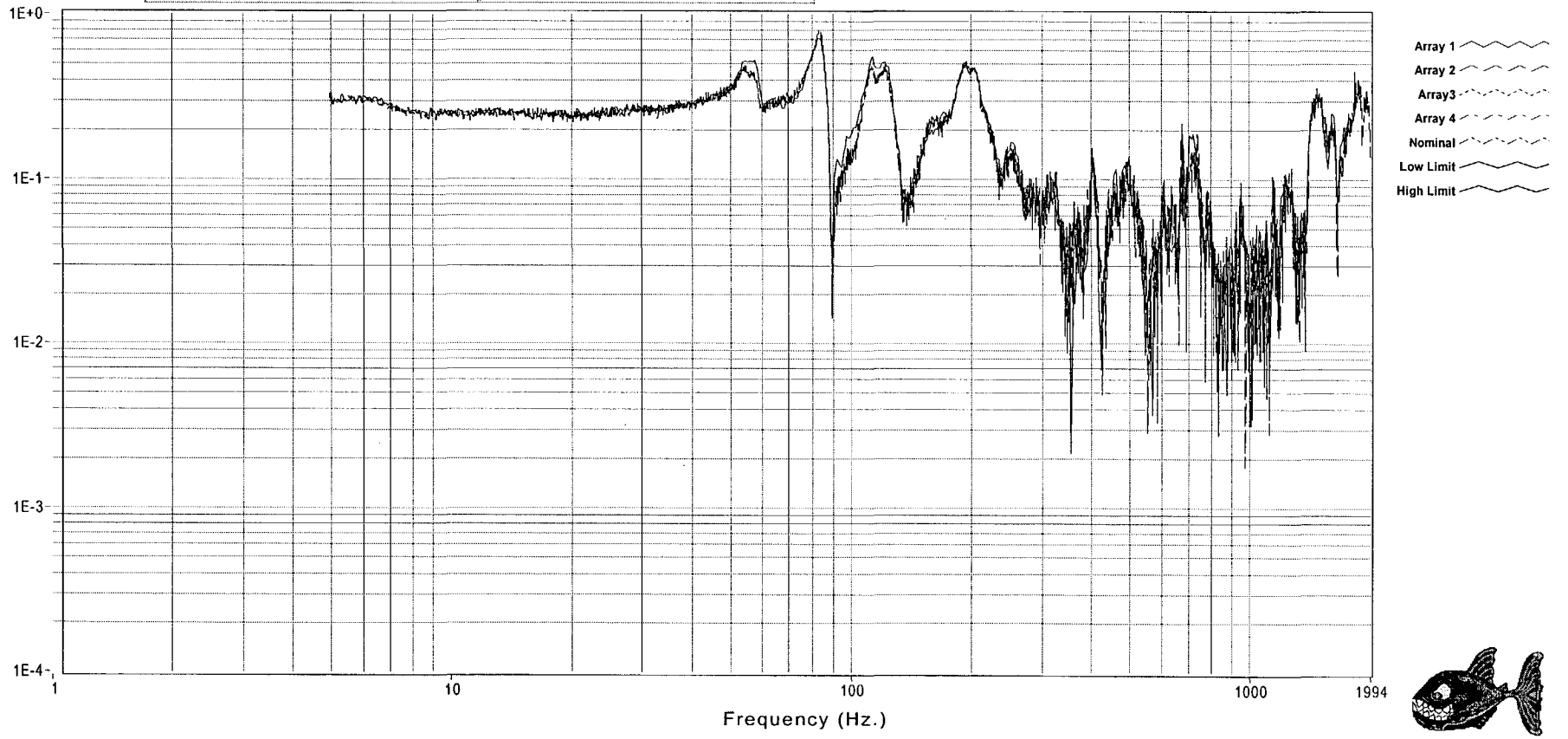
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A3Z: +X PANEL UPPER CCChannel #47	A3Z: +X PANEL UPPER CCChannel #47
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 15 SN=BC12	BOX 3 CH 15 SN=BC12
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.141E-1 at 83.3 Hz.	Maximum = 8.025E-1 at 83.0 Hz.
Overall or RMS	N/A	N/A



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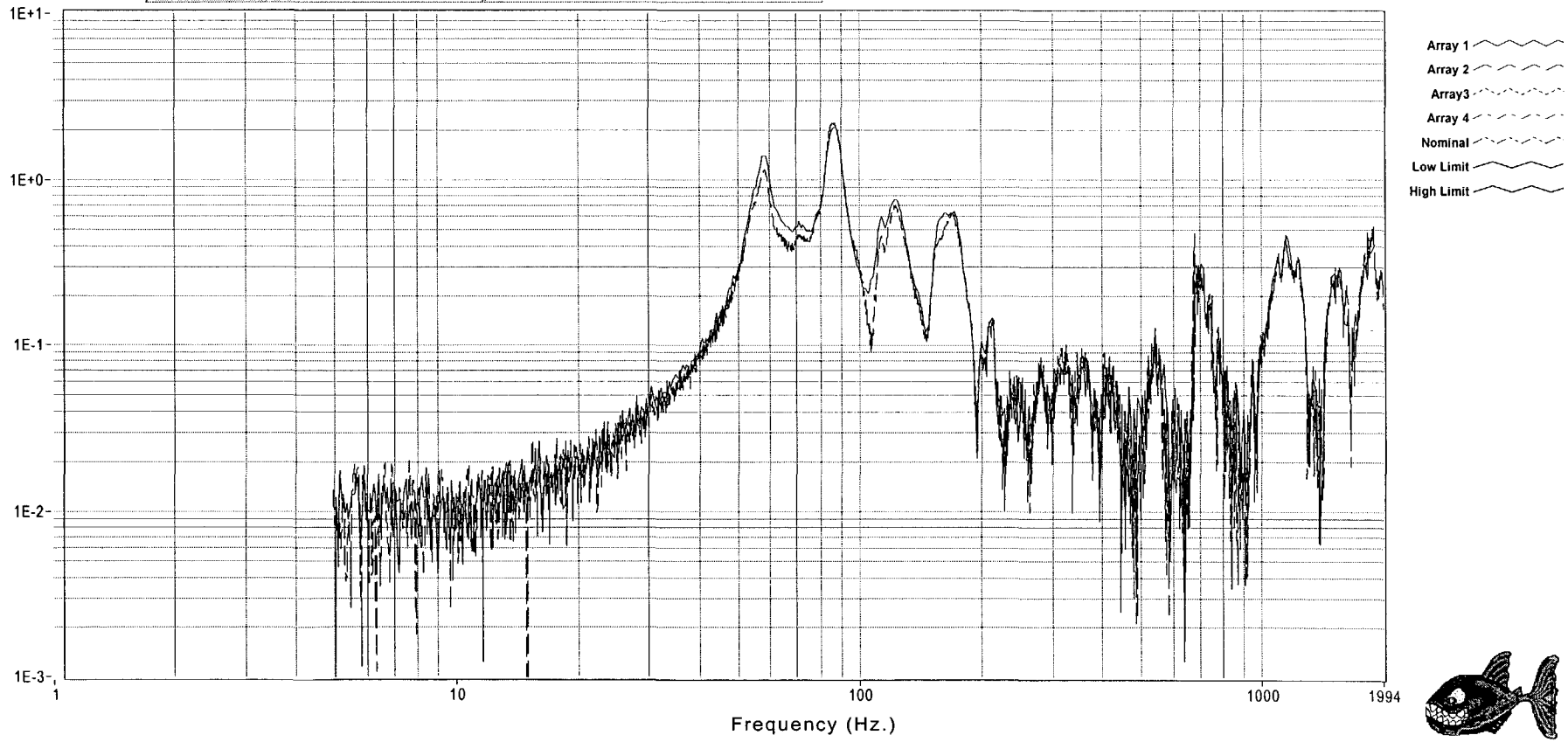
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A3RX: +X PANEL UPPER CCU Channel #48	A3RX: +X PANEL UPPER CCU Channel #48
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 3 CH 16 SN=AE43	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.076E+0 at 86.6 Hz.	Maximum = 2.207E+0 at 85.7 Hz.
Overall or RMS	N/A	N/A



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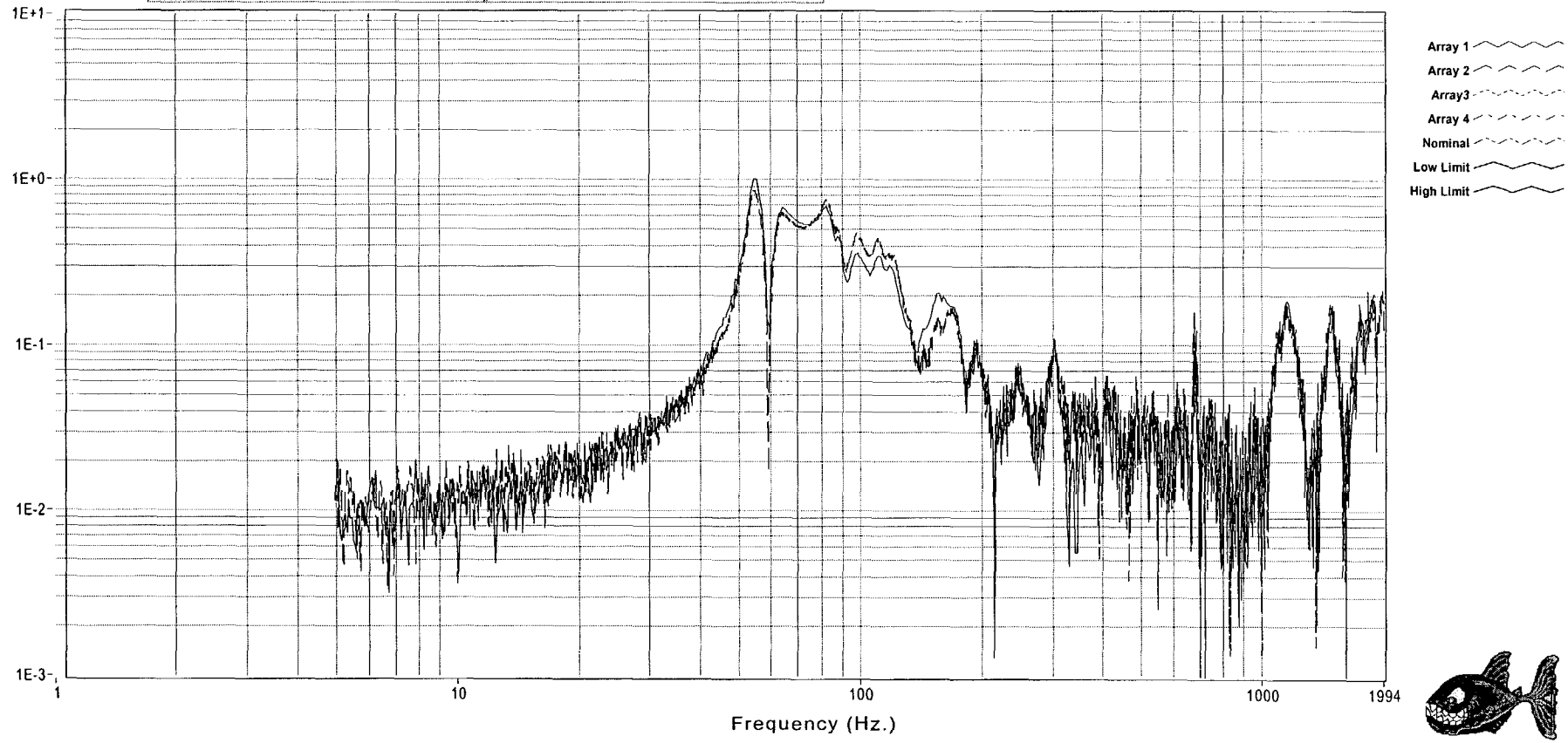
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A3RY: +X PANEL UPPER CGU Channel #49	A3RY: +X PANEL UPPER CGU Channel #49
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 1 SN=AF57	BOX 4 CH 1 SN=AF57
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.017E+0 at 54.8 Hz.	Maximum = 8.644E-1 at 54.9 Hz.
Overall or RMS	N/A	N/A



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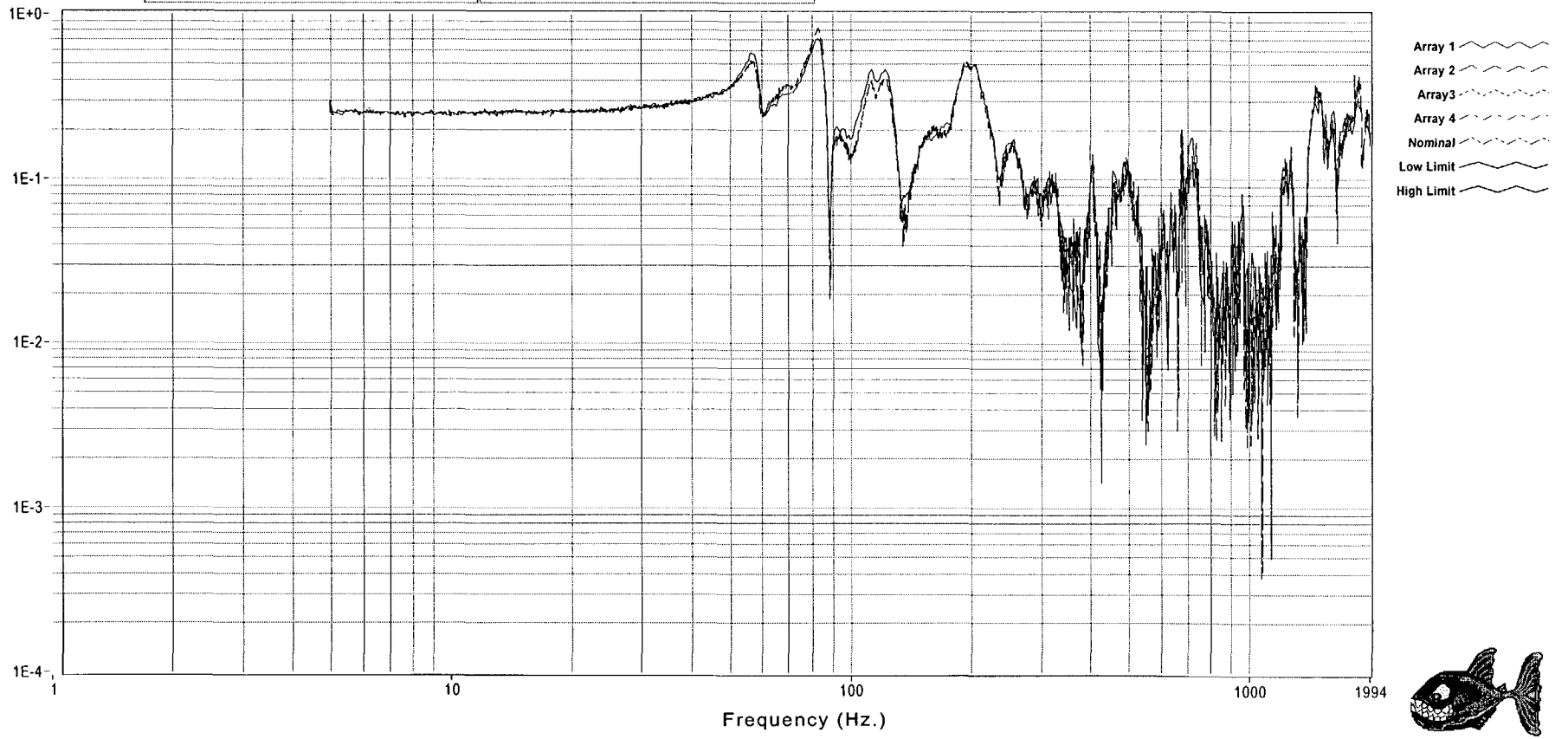
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A3RZ: +X PANEL UPPER CG Channel #50	A3RZ: +X PANEL UPPER CG Channel #50
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 2 SN=AB65	BOX 4 CH 2 SN=AB65
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.160E-1 at 83.3 Hz.	Maximum = 8.294E-1 at 83.0 Hz.
Overall or RMS	N/A	N/A



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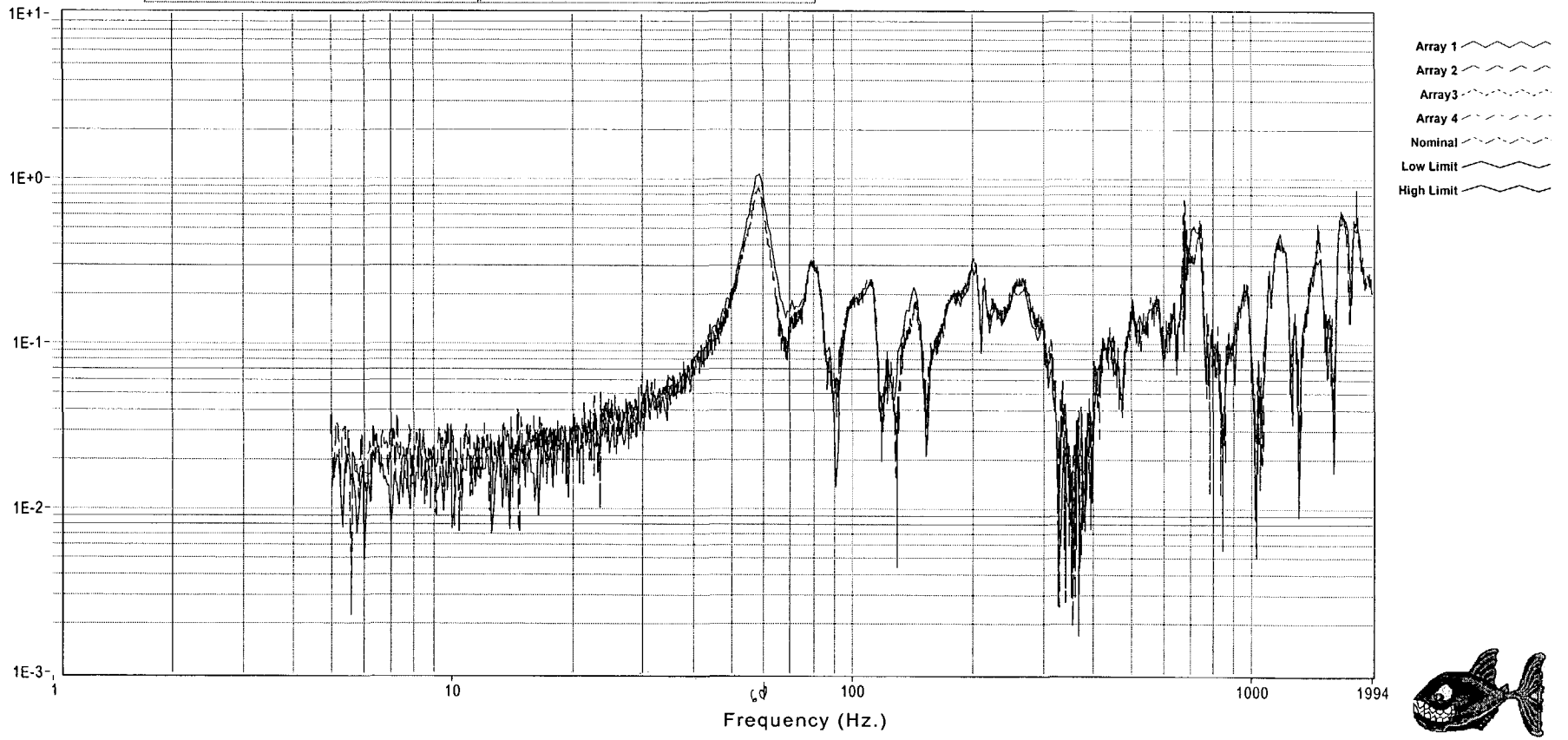
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A4X: +Y PANEL MID-CMUChannel #51	A4X: +Y PANEL MID-CMUChannel #51
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 3 SN=AH55	BOX 4 CH 3 SN=AH55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.078E+0 at 58.8 Hz.	Maximum = 8.948E-1 at 58.3 Hz.
Overall or RMS	N/A	N/A



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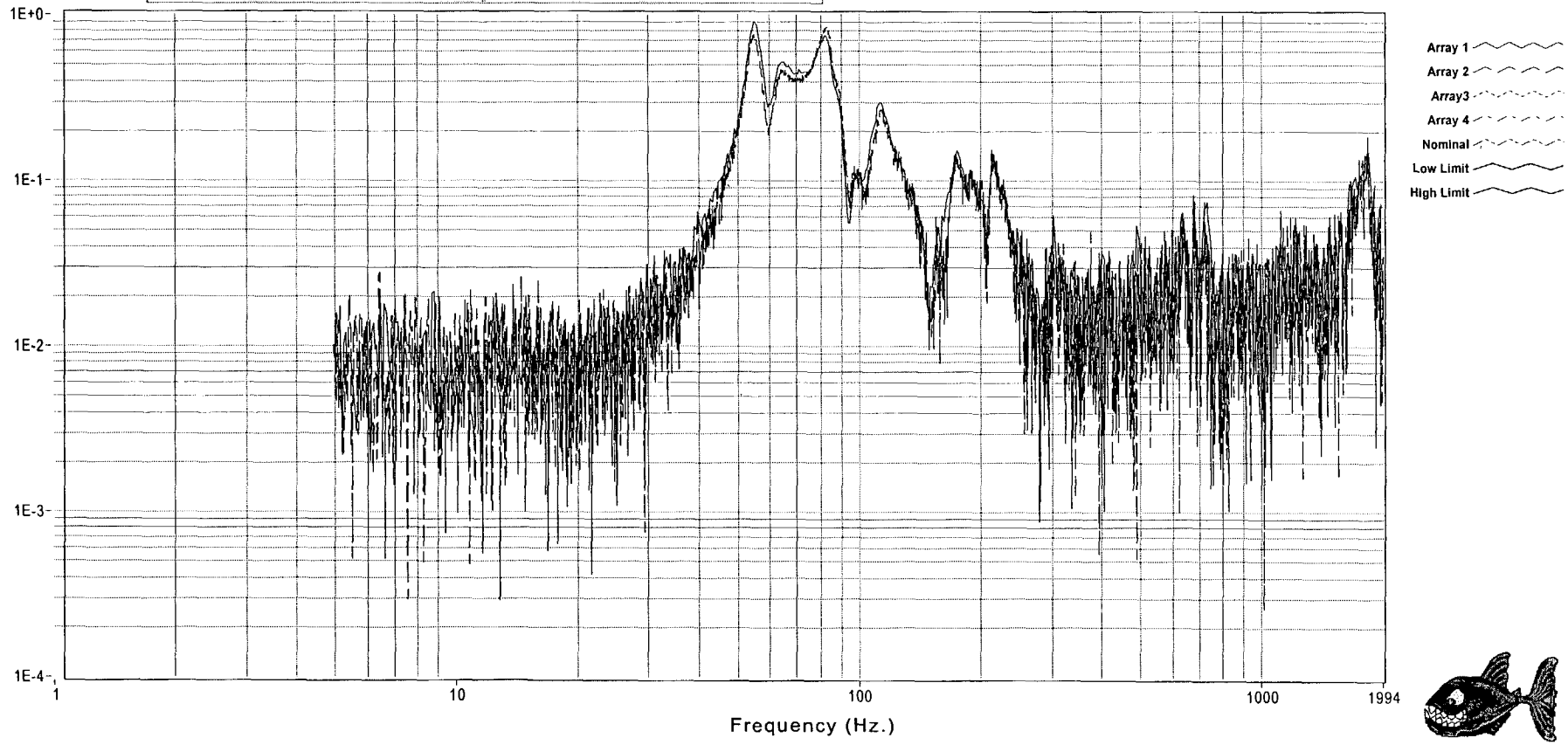
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A4Y: +Y PANEL MID-CMUChannel #52	A4Y: +Y PANEL MID-CMUChannel #52
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 4 SN=AJ95	BOX 4 CH 4 SN=AJ95
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.997E-1 at 54.8 Hz.	Maximum = 8.477E-1 at 82.7 Hz.
Overall or RMS	N/A	N/A



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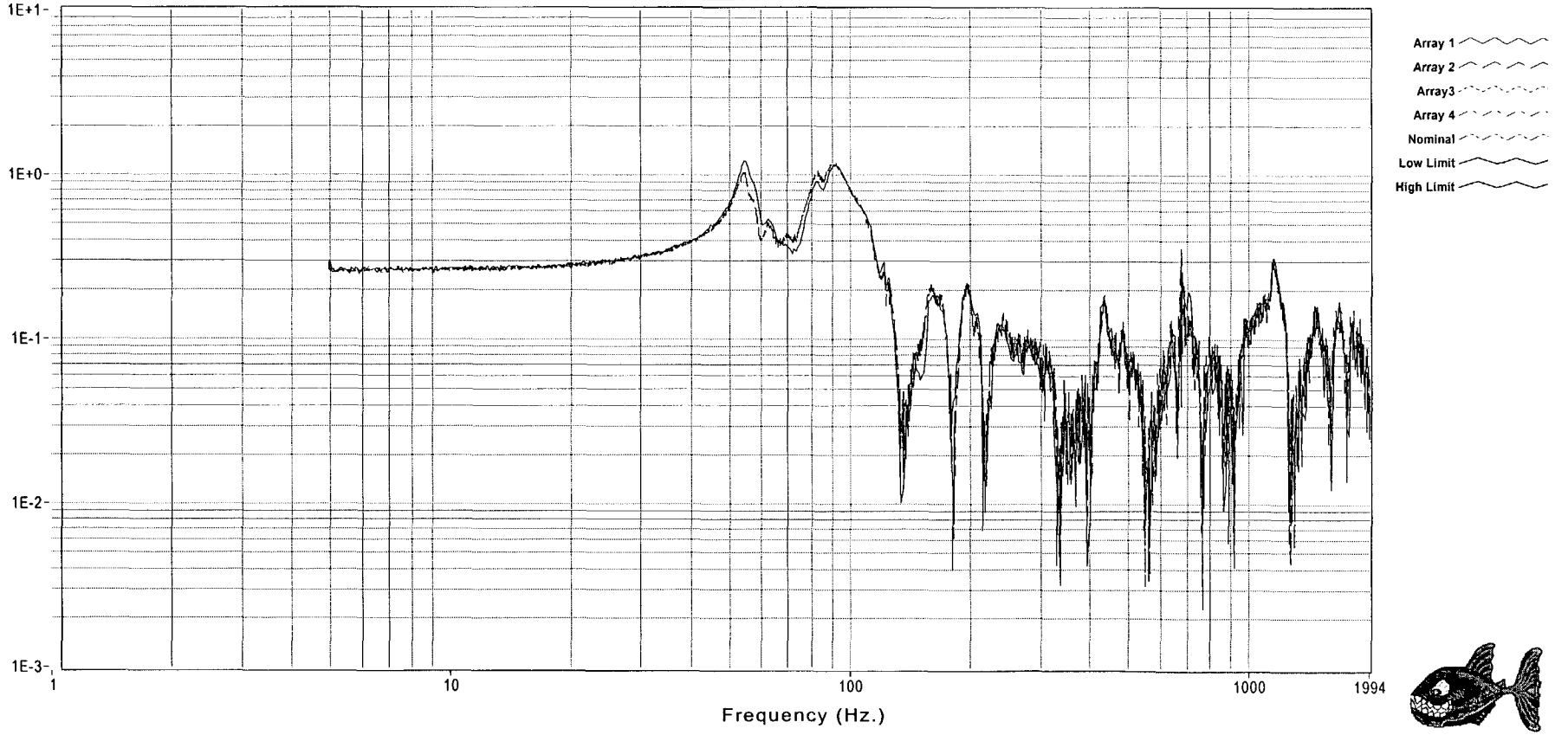
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	A4Z: +Y PANEL MID-CMUChannel #53	A4Z: +Y PANEL MID-CMUChannel #53
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 5 SN=AB55	BOX 4 CH 5 SN=AB55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.230E+0 at 54.3 Hz.	Maximum = 1.189E+0 at 90.3 Hz.
Overall or RMS	N/A	N/A



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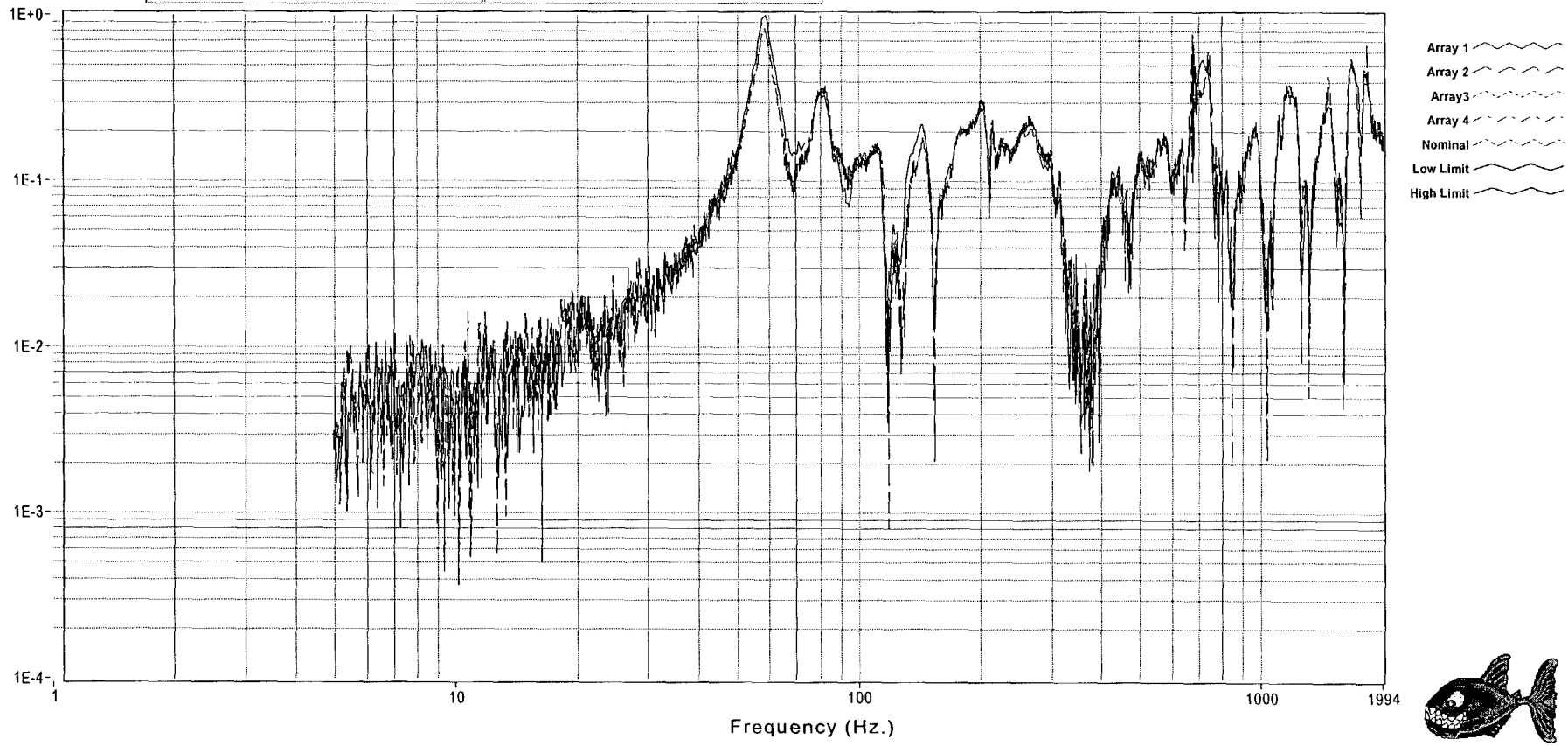
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A4RX: +Y PANEL MID-CMOChannel #54	A4RX: +Y PANEL MID-CMOChannel #54
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 6 SN=AF10	BOX 4 CH 6 SN=AF10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.942E-1 at 58.8 Hz.	Maximum = 8.316E-1 at 58.4 Hz.
Overall or RMS	N/A	N/A



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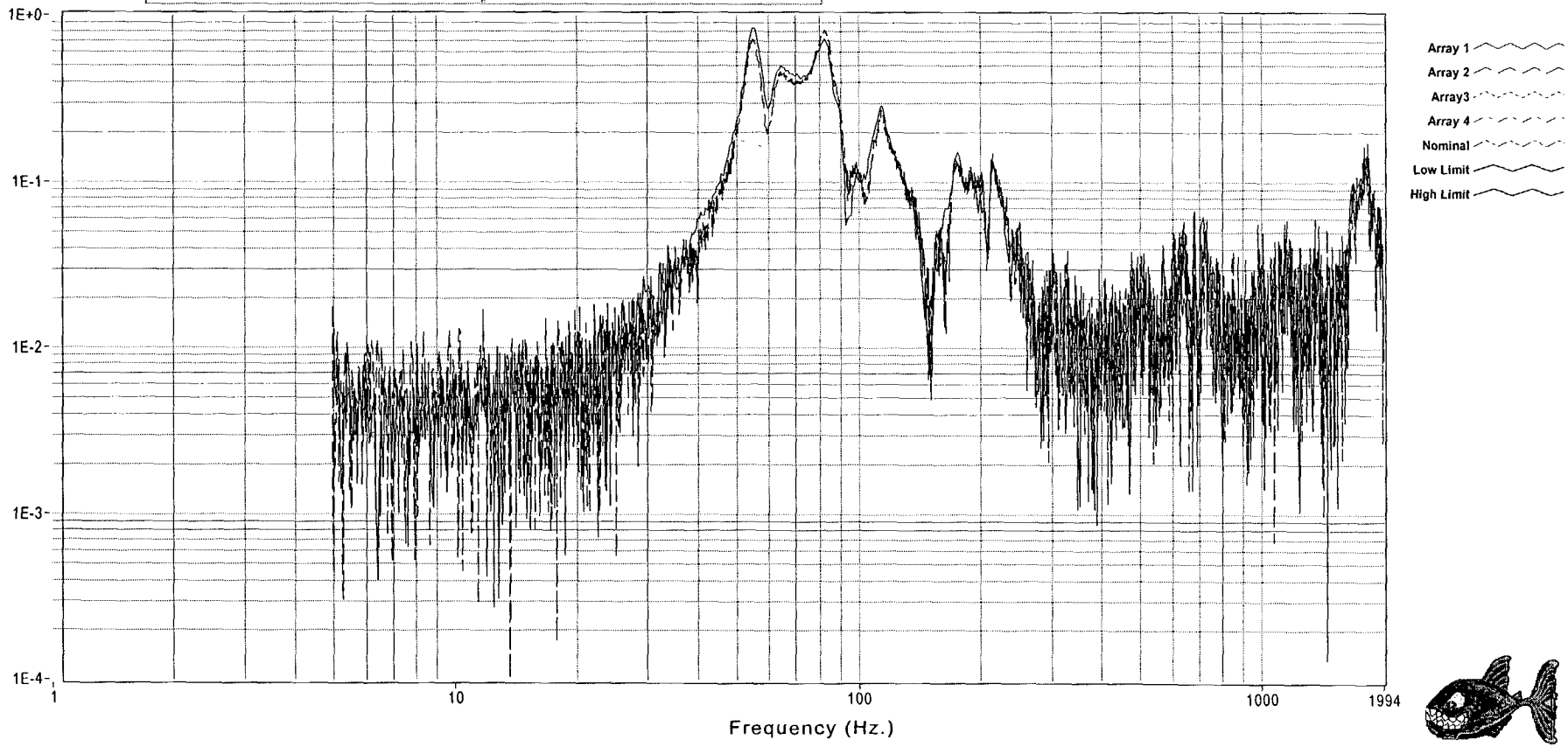
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A4RY: +Y PANEL MID-CMCChannel #55	A4RY: +Y PANEL MID-CMCChannel #55
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 7 SN=AF56	BOX 4 CH 7 SN=AF56
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.460E-1 at 54.8 Hz.	Maximum = 8.126E-1 at 82.5 Hz.
Overall or RMS	N/A	N/A



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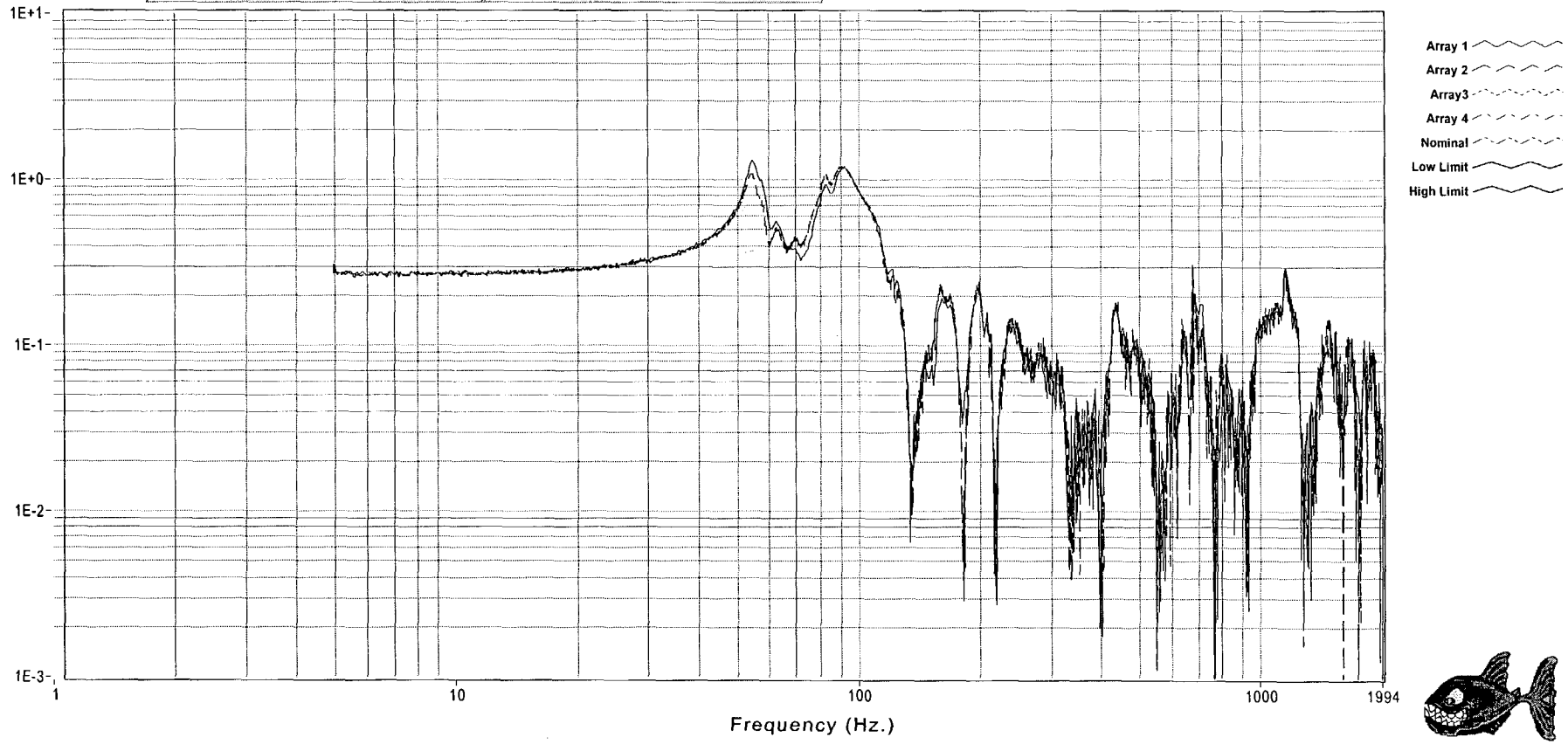
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	A4RZ: +Y PANEL MID-CMOChannel #56	A4RZ: +Y PANEL MID-CMOChannel #56
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 8 SN=AD53	BOX 4 CH 8 SN=AD53
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.299E+0 at 54.3 Hz.	Maximum = 1.211E+0 at 92.1 Hz.
Overall or RMS	N/A	N/A



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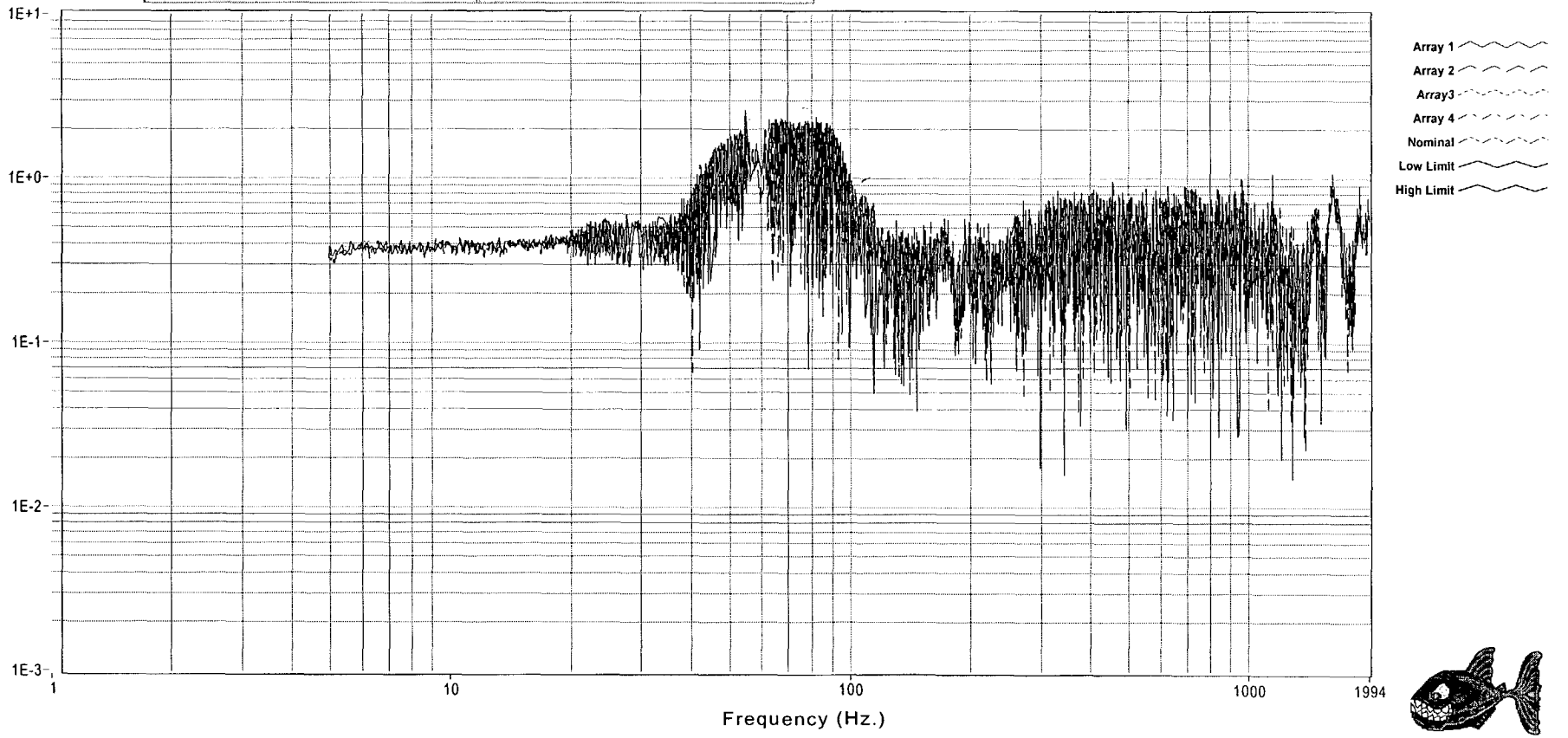
	Array 1 sine_Sine062303	Array 2 sine_Sine062311
	F1: FLY AWAY Channel #57	F1: FLY AWAY Channel #57
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 9 SN=BF27	BOX 4 CH 9 SN=BF27
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.620E+0 at 54.8 Hz.	Maximum = 2.344E+0 at 82.4 Hz.
Overall or RMS	N/A	N/A



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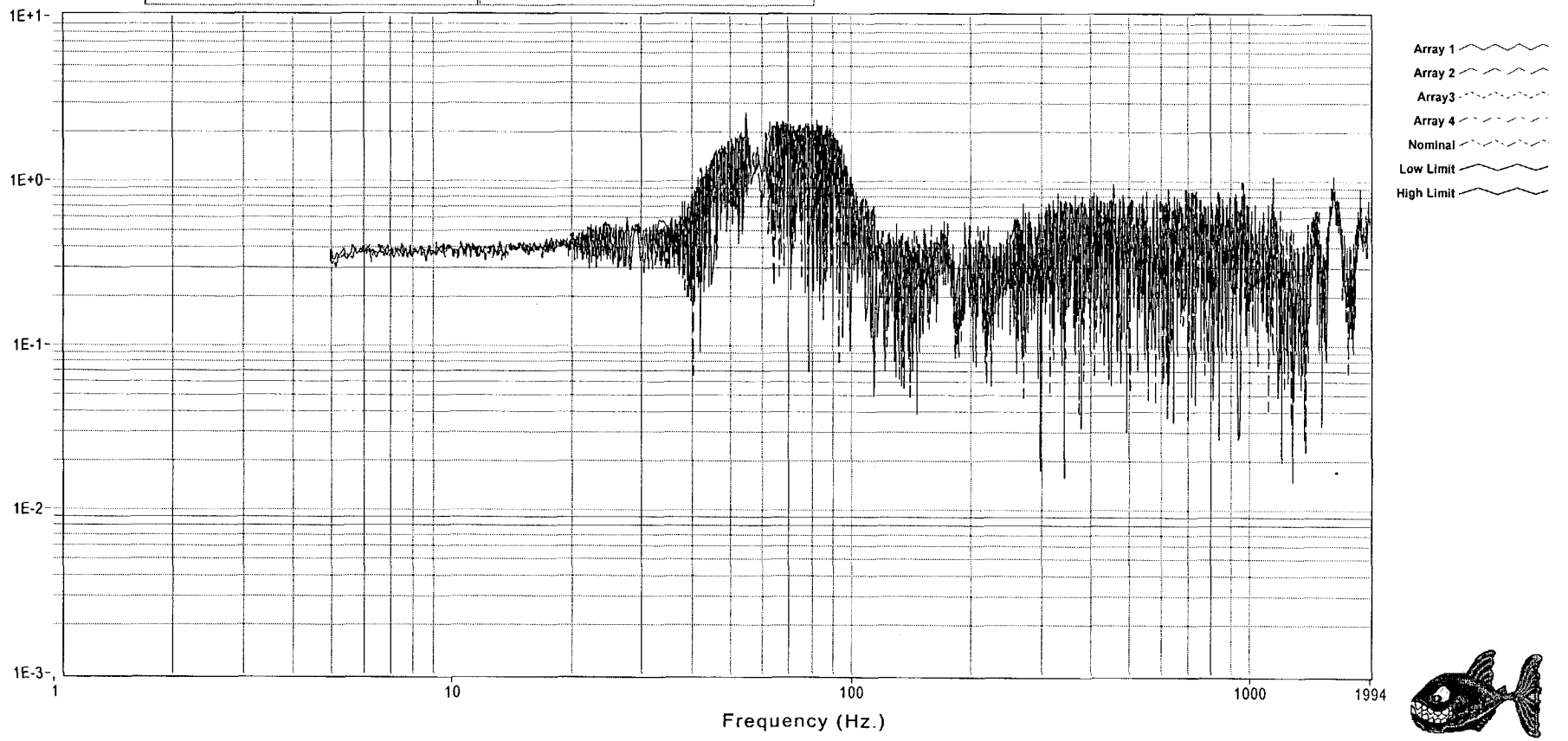
	Array 1	Array 2
	sine_Sine062303	sine_Sine062311
	F1: FLY AWAY Channel #57	F1: FLY AWAY Channel #57
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS Post
Test File Number	062303	062311
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 13:51:18
Channel Description	BOX 4 CH 9 SN=BF27	BOX 4 CH 9 SN=BF27
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.620E+0 at 54.8 Hz.	Maximum = 2.344E+0 at 82.4 Hz.
Overall or RMS	N/A	N/A



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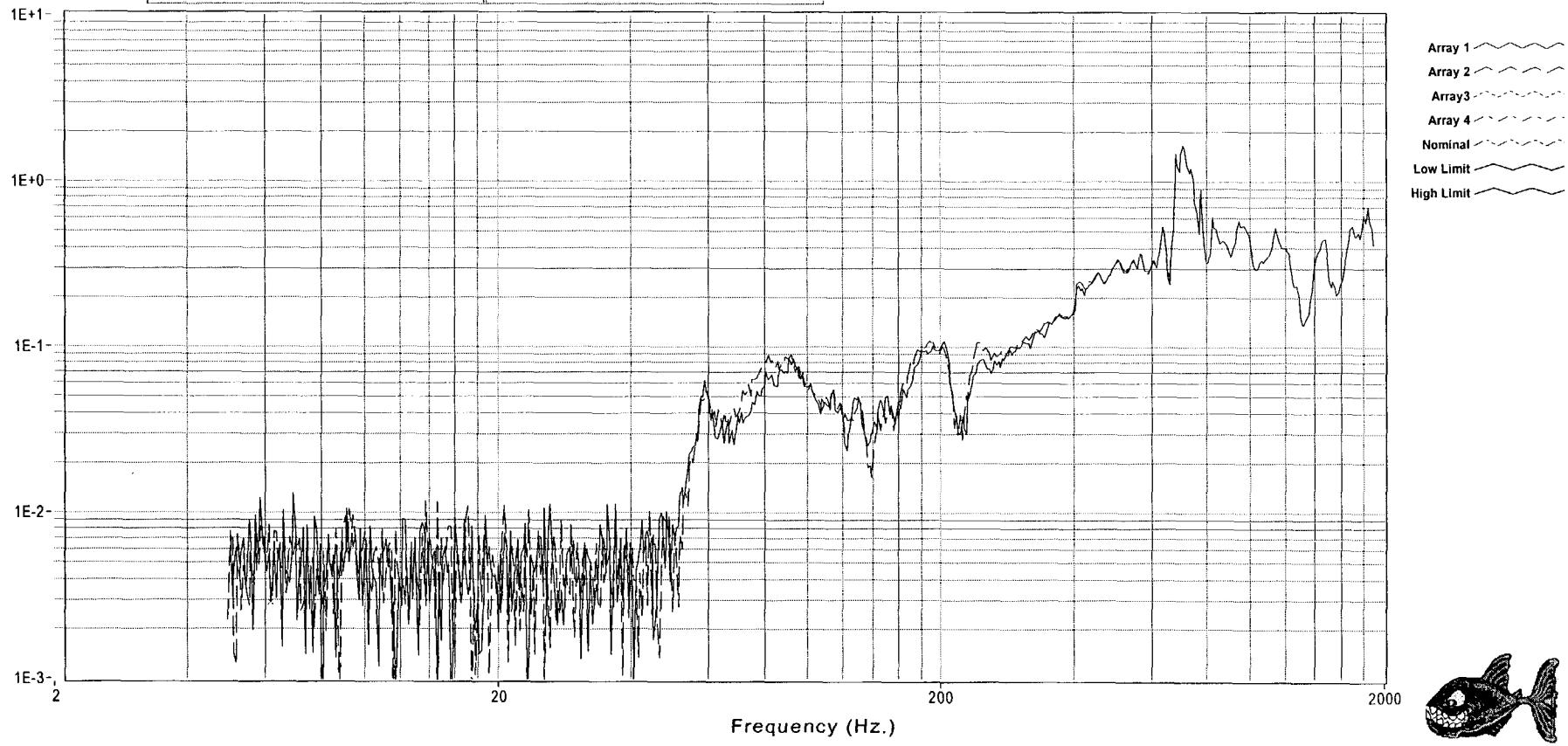
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A5 X Channel #7	A5 X Channel #7
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.666E+0 at 707.2 Hz.	Maximum = 5.250E-1 at 633.9 Hz.
Overall or RMS	N/A	N/A



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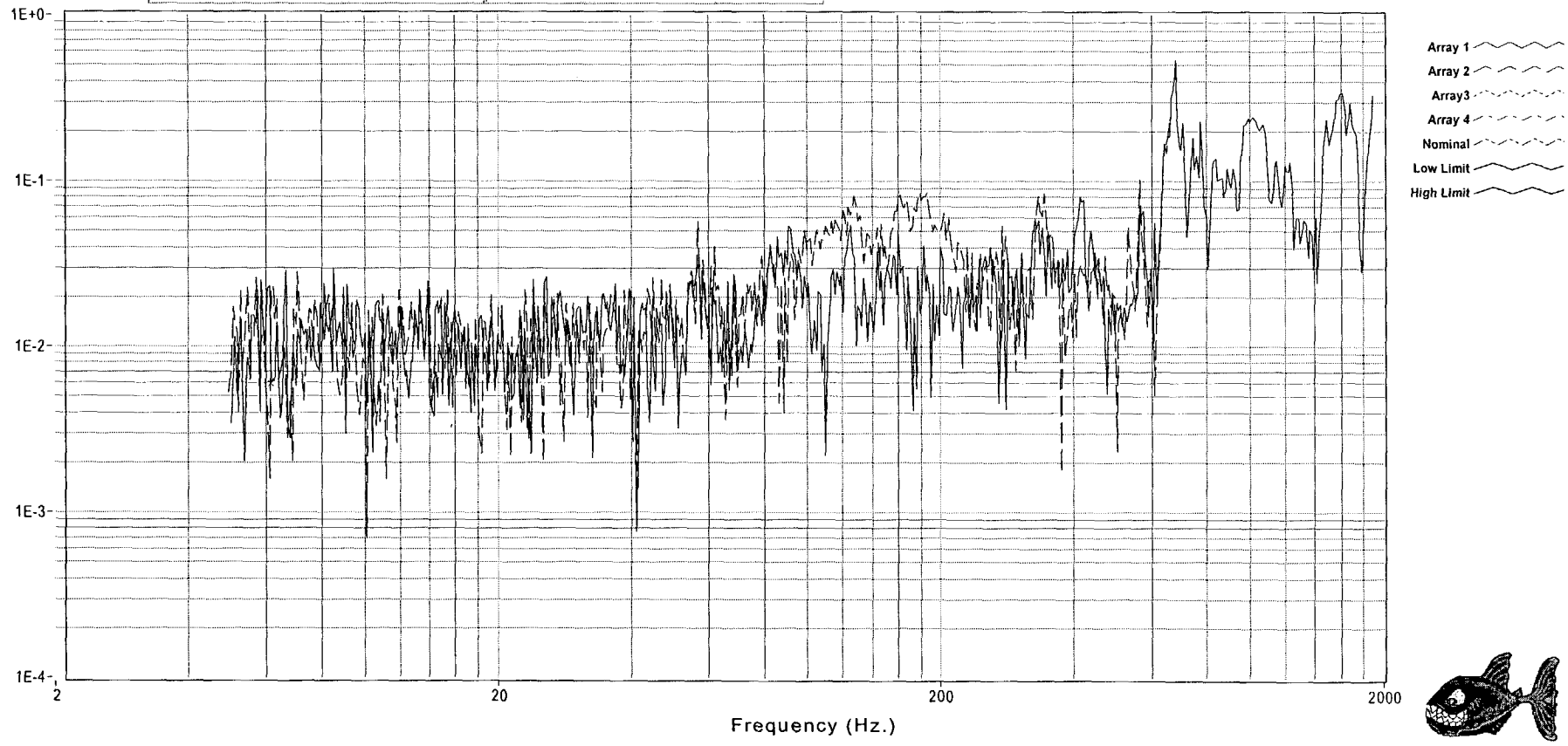
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A5 Y Channel #8	A5 Y Channel #8
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.378E-1 at 679.6 Hz.	Maximum = 2.230E-1 at 659.6 Hz.
Overall or RMS	N/A	N/A



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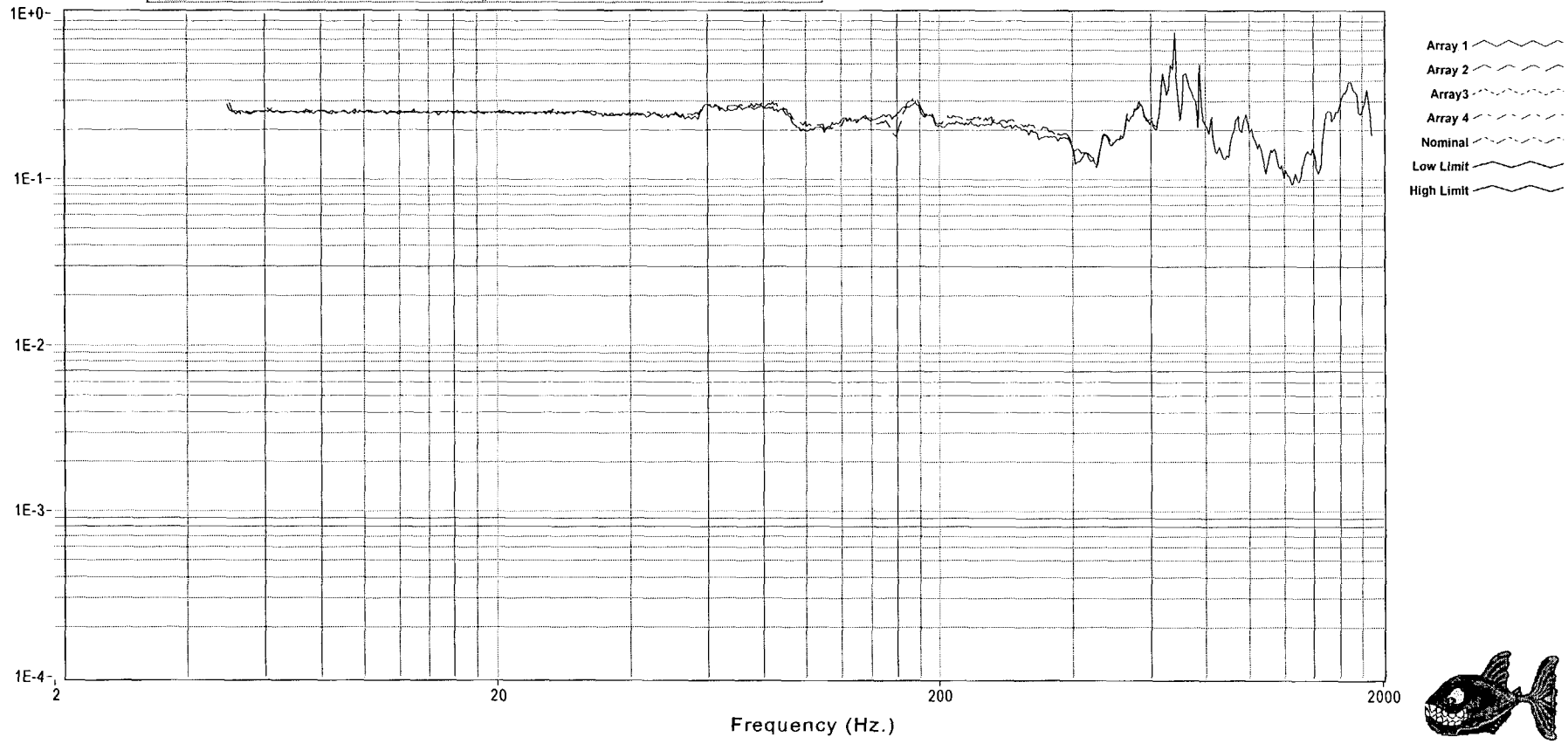
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A5 Z — Channel #9	A5 Z — Channel #9
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.729E-1 at 679.6 Hz.	Maximum = 4.366E-1 at 640.2 Hz.
Overall or RMS	N/A	N/A



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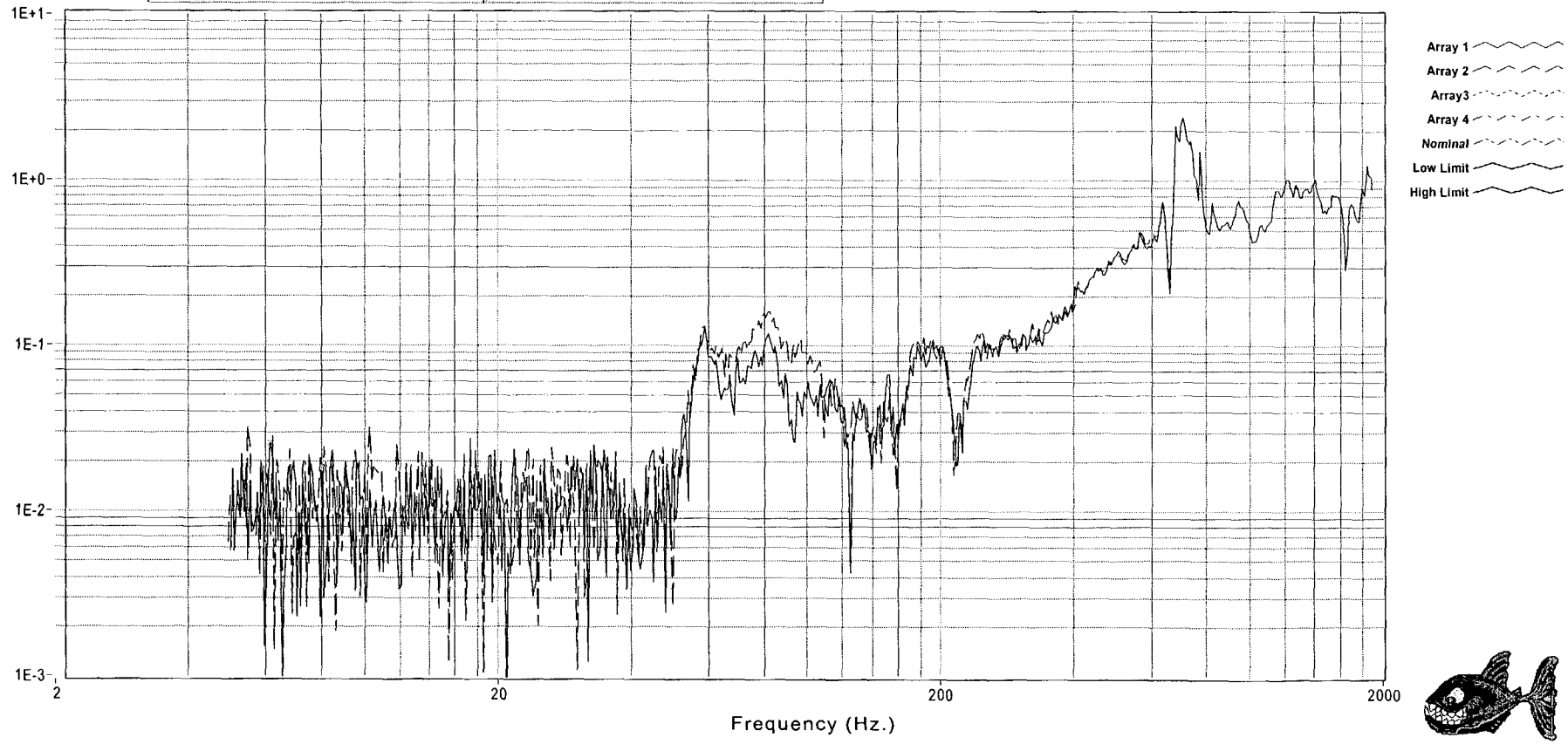
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A6 X Channel #10	A6 X Channel #10
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.382E+0 at 707.2 Hz.	Maximum = 7.484E-1 at 633.9 Hz.
Overall or RMS	N/A	N/A



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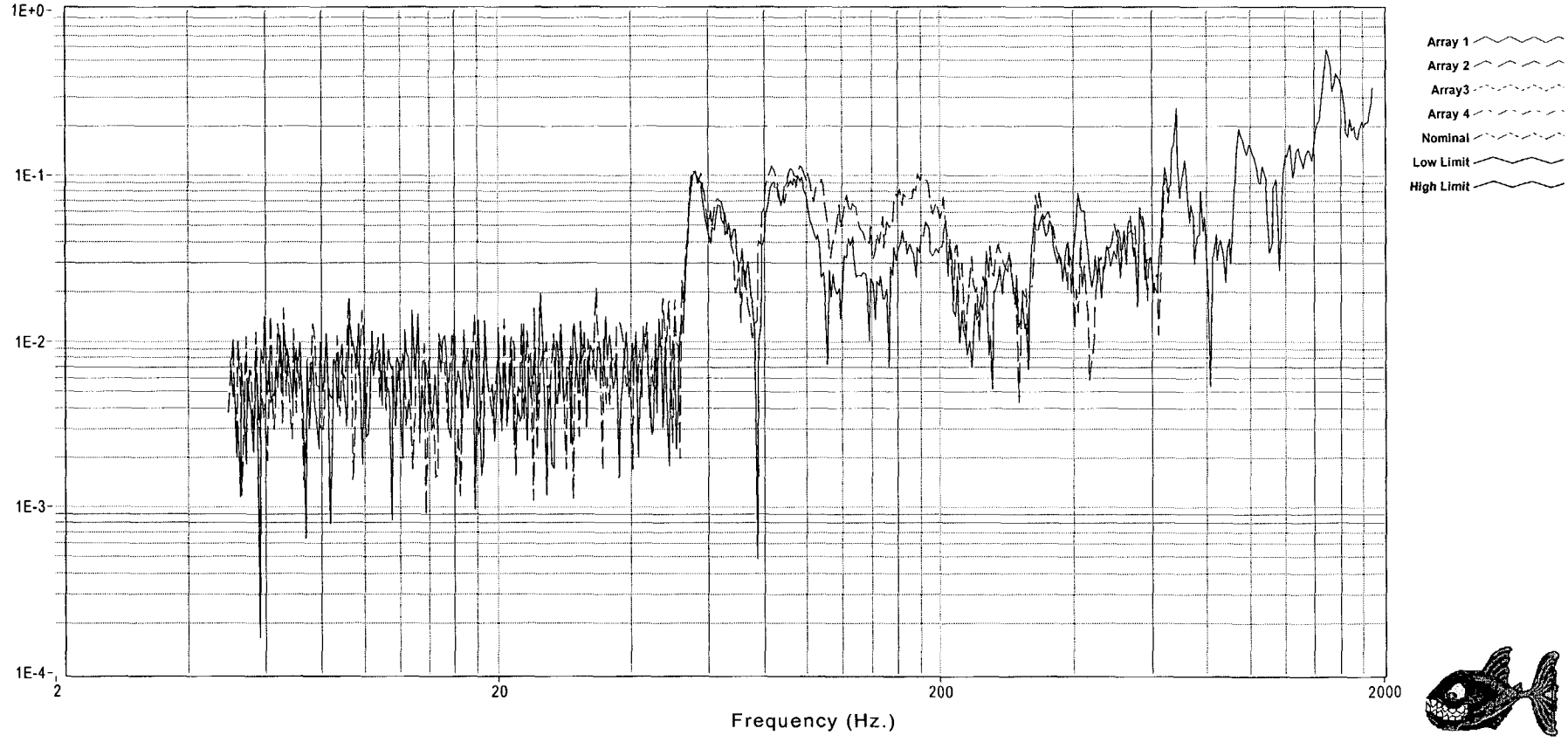
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A6 Y Channel #11	A6 Y Channel #11
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.857E-1 at 1492.0 Hz.	Maximum = 1.141E-1 at 83.3 Hz.
Overall or RMS	N/A	N/A



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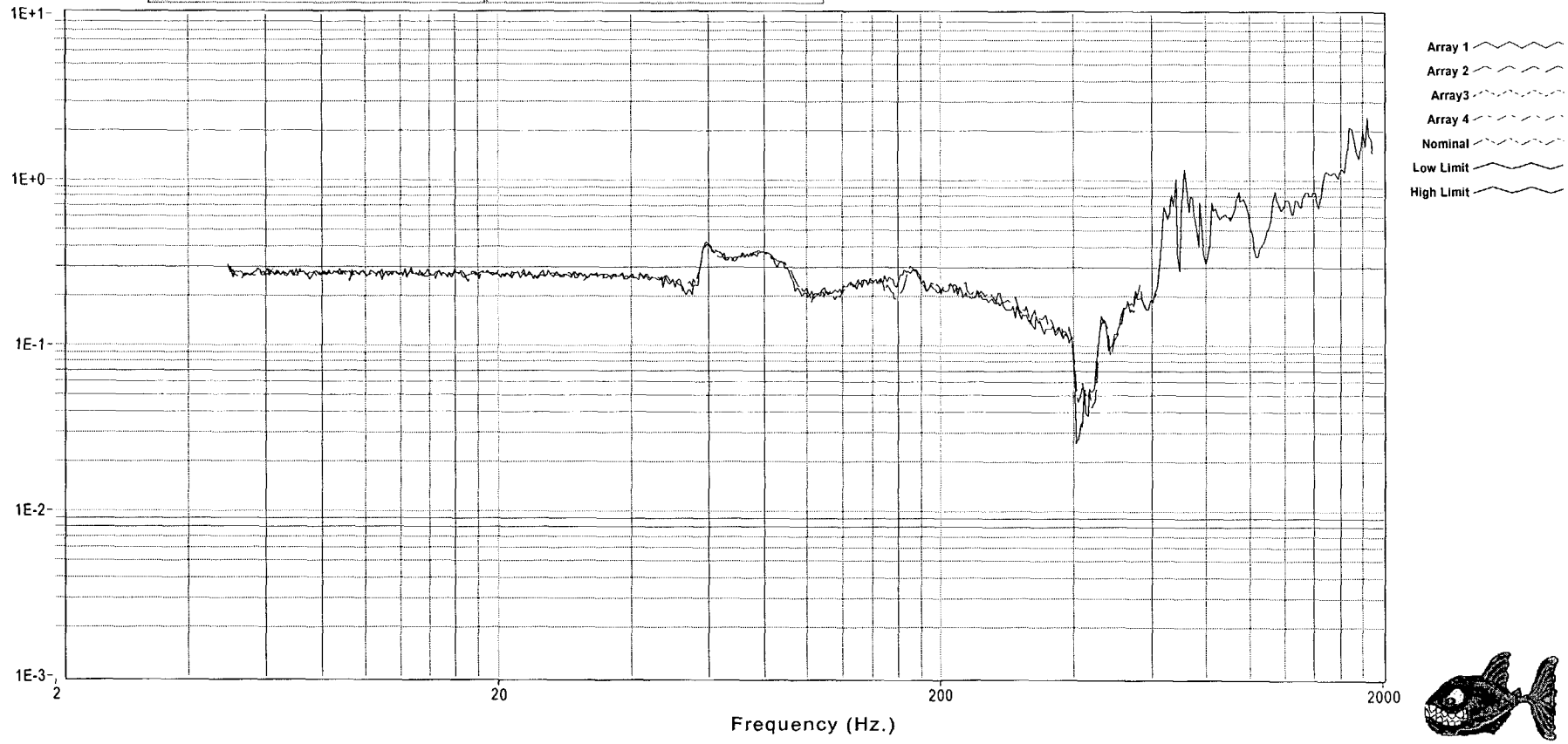
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A6 Z Channel #12	A6 Z Channel #12
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.386E+0 at 1838.0 Hz.	Maximum = 6.916E-1 at 640.2 Hz.
Overall or RMS	N/A	N/A



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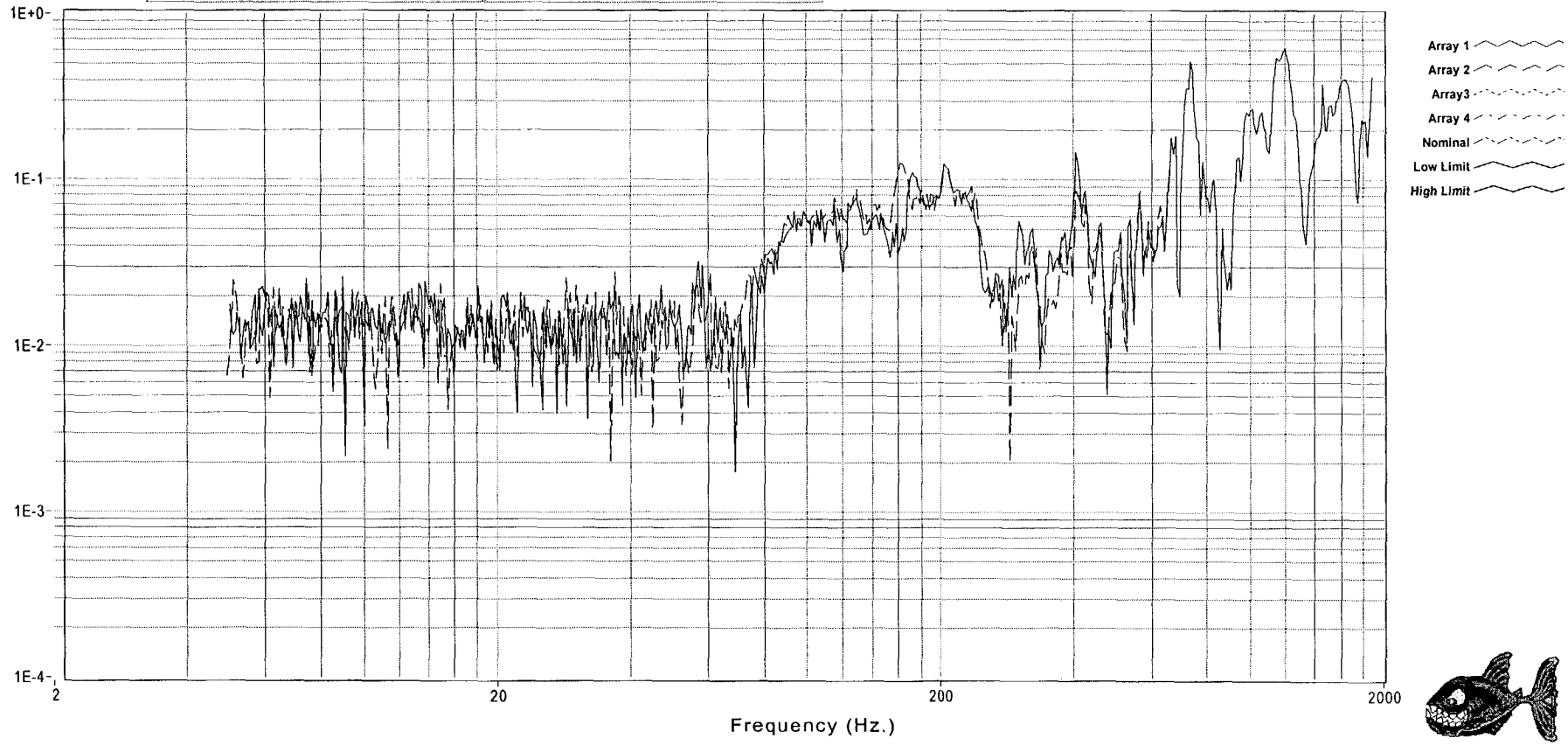
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A7 X Channel #17	A7 X Channel #17
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.243E-1 at 1198.0 Hz.	Maximum = 1.275E-1 at 162.2 Hz.
Overall or RMS	N/A	N/A



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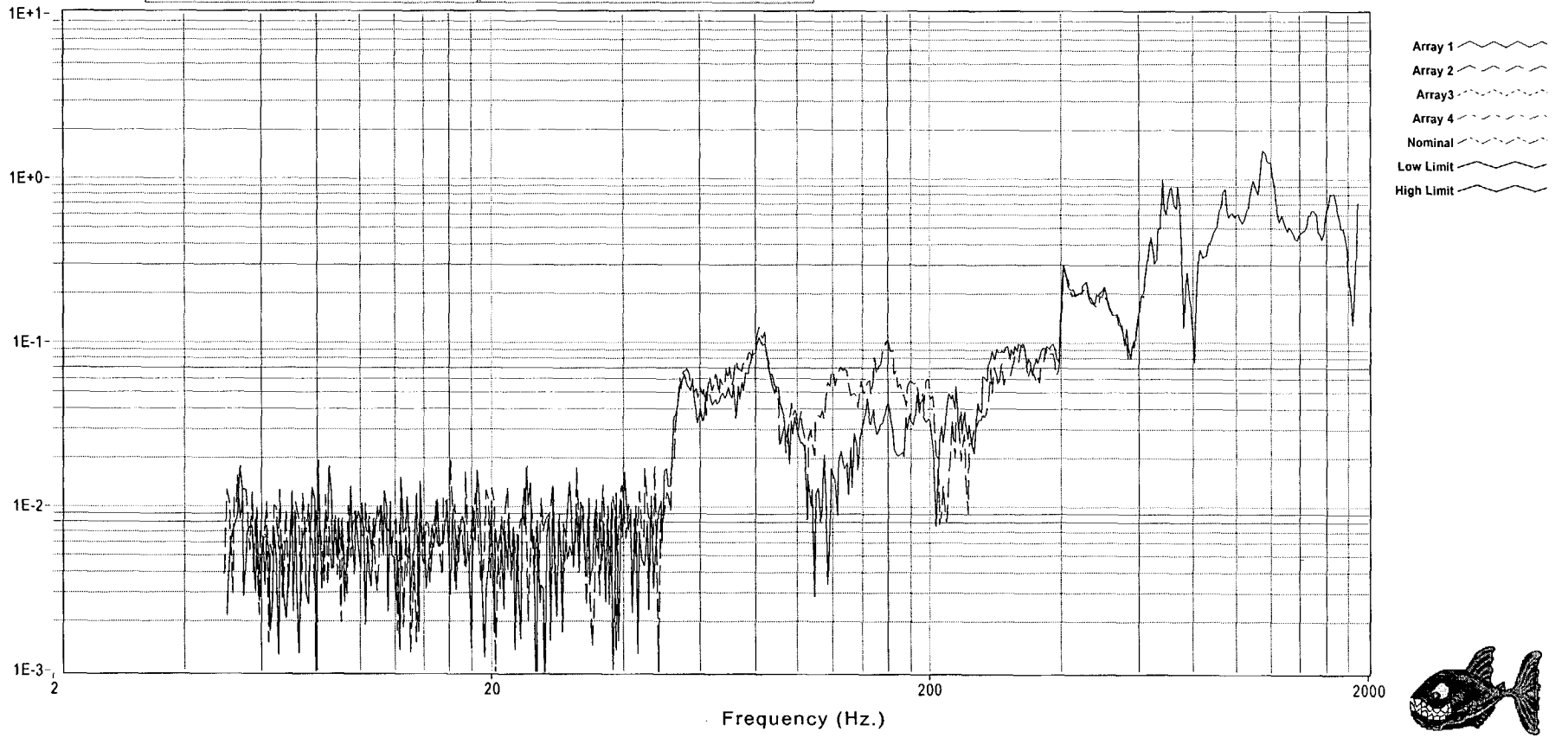
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A7 Y Channel #18	A7 Y Channel #18
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.494E+0 at 1152.0 Hz.	Maximum = 4.434E-1 at 640.2 Hz.
Overall or RMS	N/A	N/A



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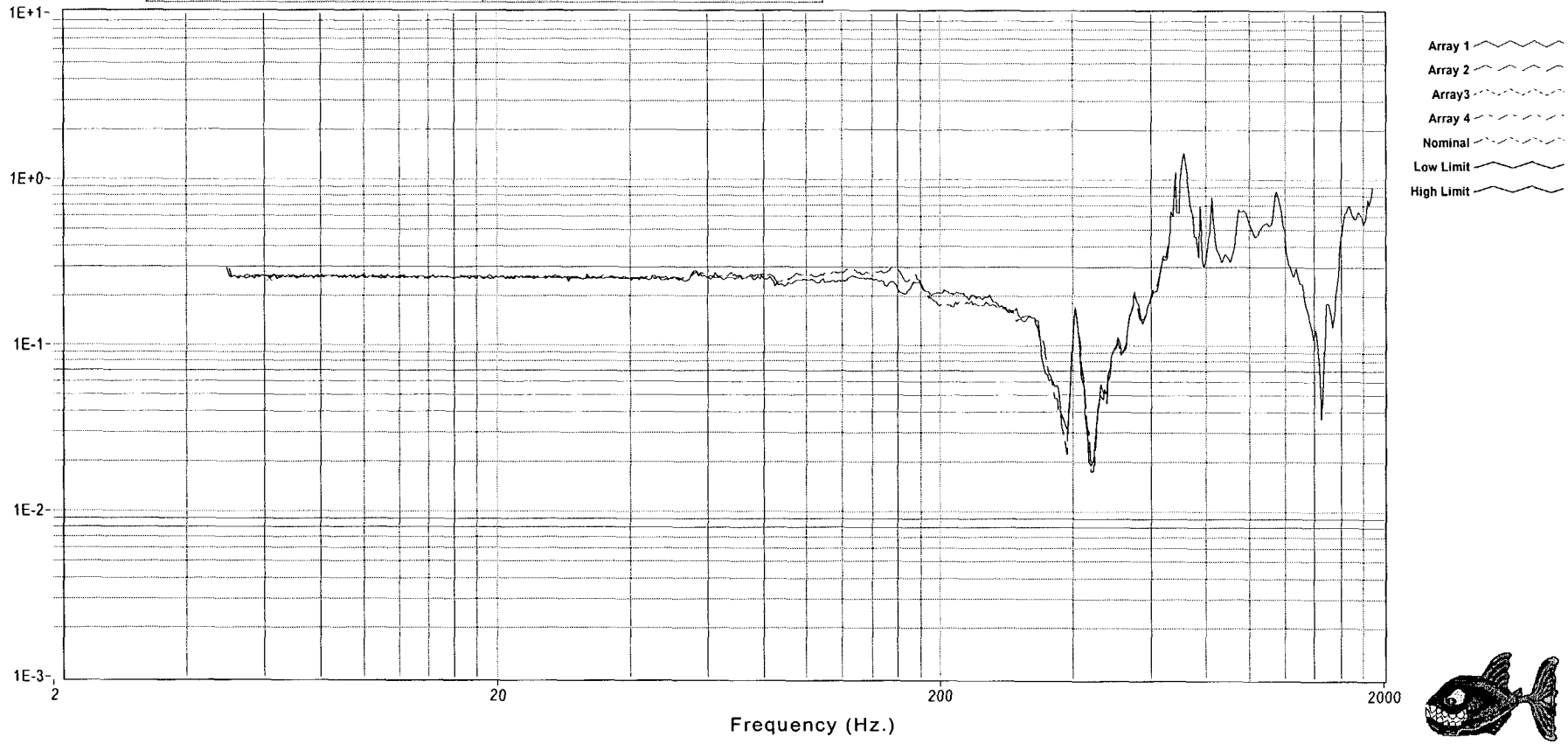
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A7 Z Channel #19	A7 Z Channel #19
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.446E+0 at 714.3 Hz.	Maximum = 4.455E-1 at 659.6 Hz.
Overall or RMS	N/A	N/A



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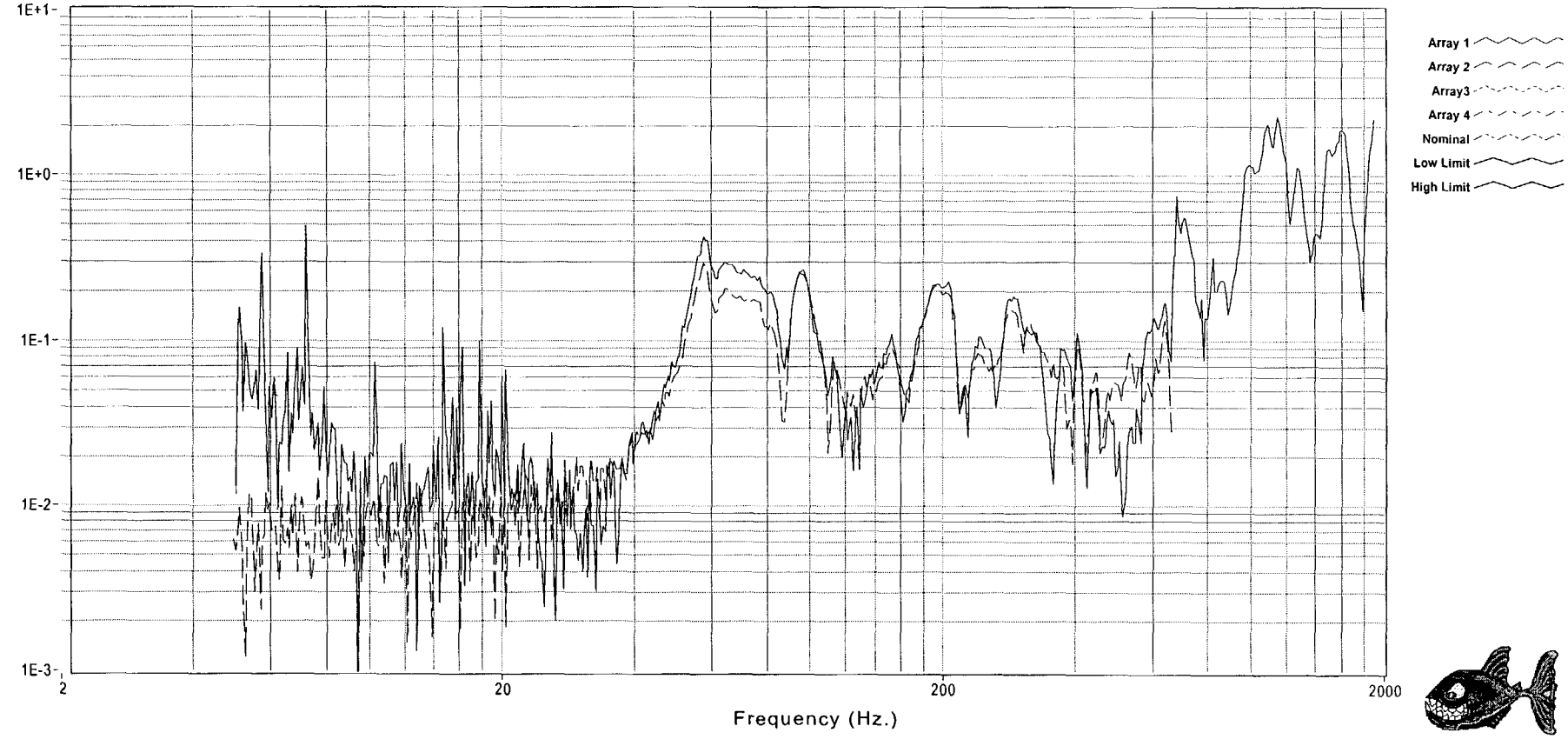
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A8 X Channel #20	A8 X Channel #20
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.270E+0 at 1152.0 Hz.	Maximum = 2.916E-1 at 57.6 Hz.
Overall or RMS	N/A	N/A



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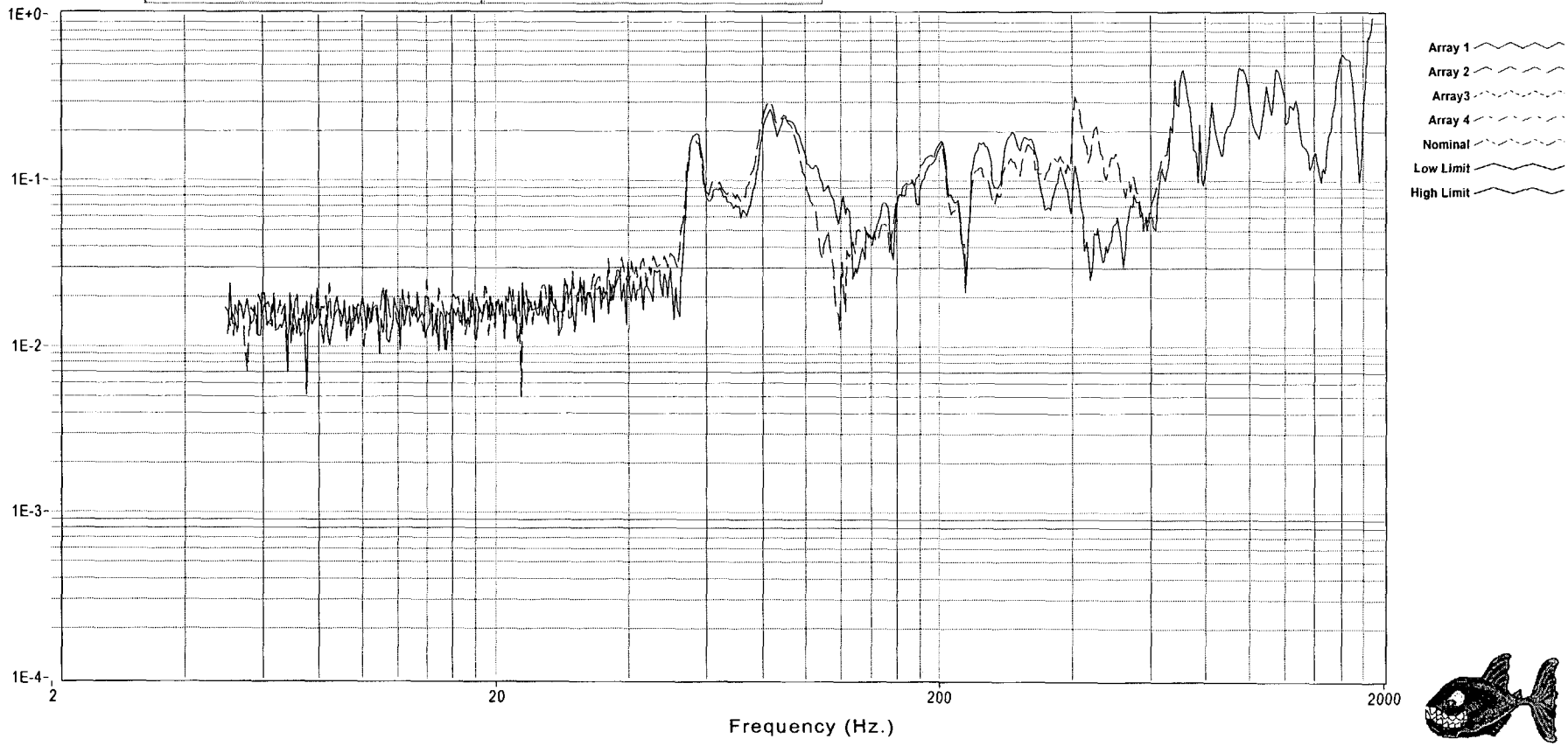
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A8 Y Channel #21	A8 Y Channel #21
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	0.01034	0.01034
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.744E-1 at 1894.0 Hz.	Maximum = 3.241E-1 at 405.1 Hz.
Overall or RMS	N/A	N/A



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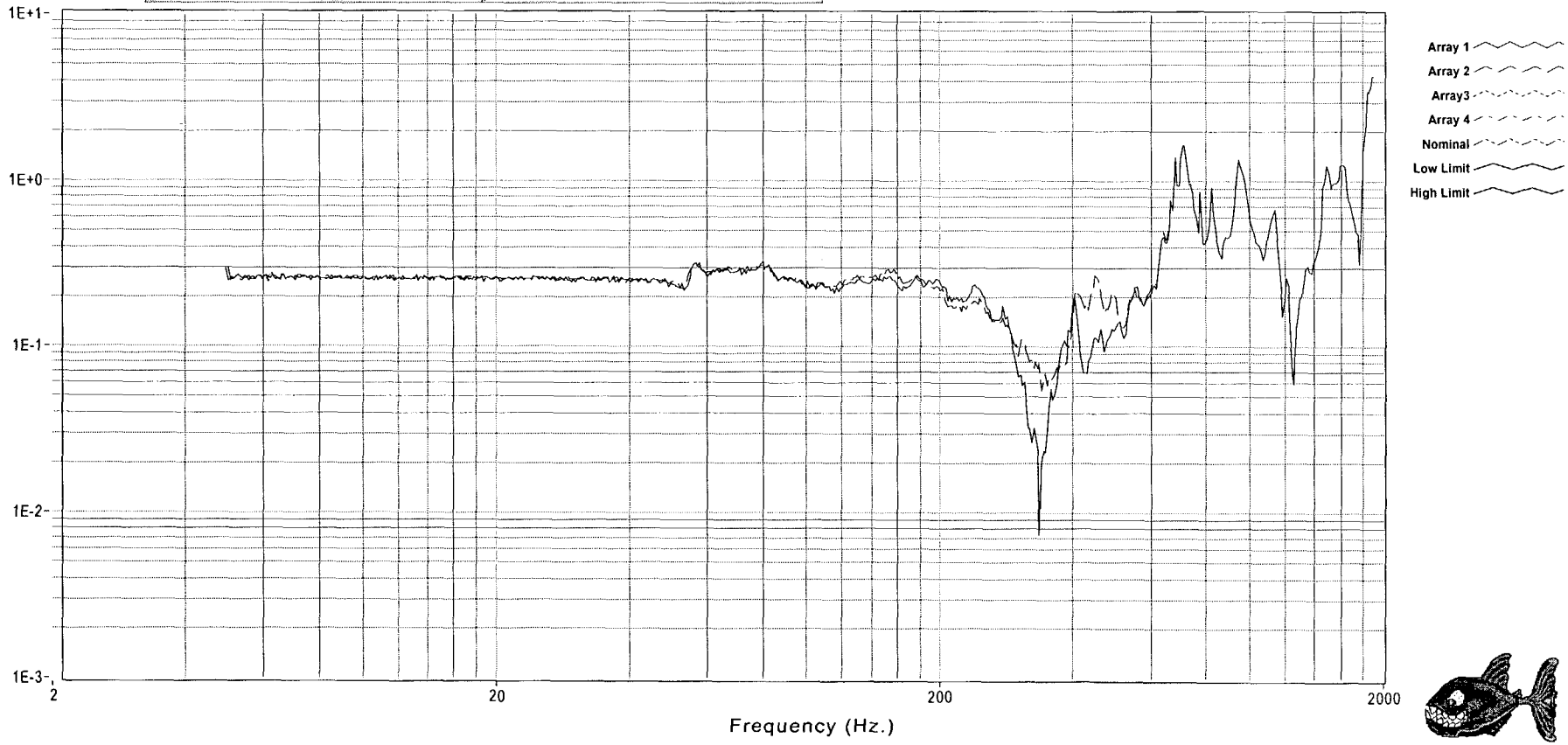
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A8 Z — Channel #22	A8 Z — Channel #22
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	0.01029	0.01029
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.344E+0 at 1894.0 Hz.	Maximum = 5.451E-1 at 659.6 Hz.
Overall or RMS	N/A	N/A



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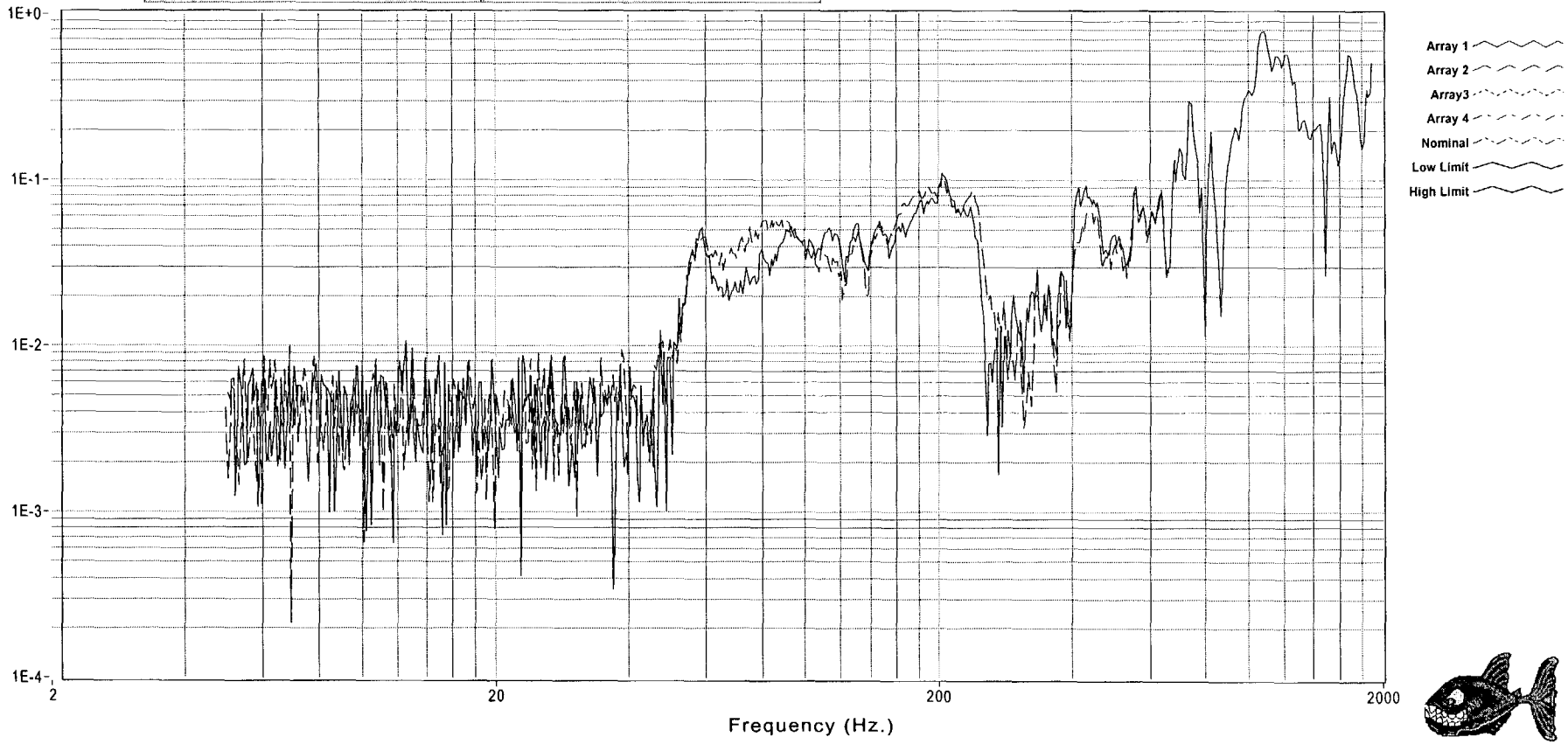
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A9 X Channel #23	A9 X Channel #23
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.887E-1 at 1085.0 Hz.	Maximum = 1.106E-1 at 203.9 Hz.
Overall or RMS	N/A	N/A



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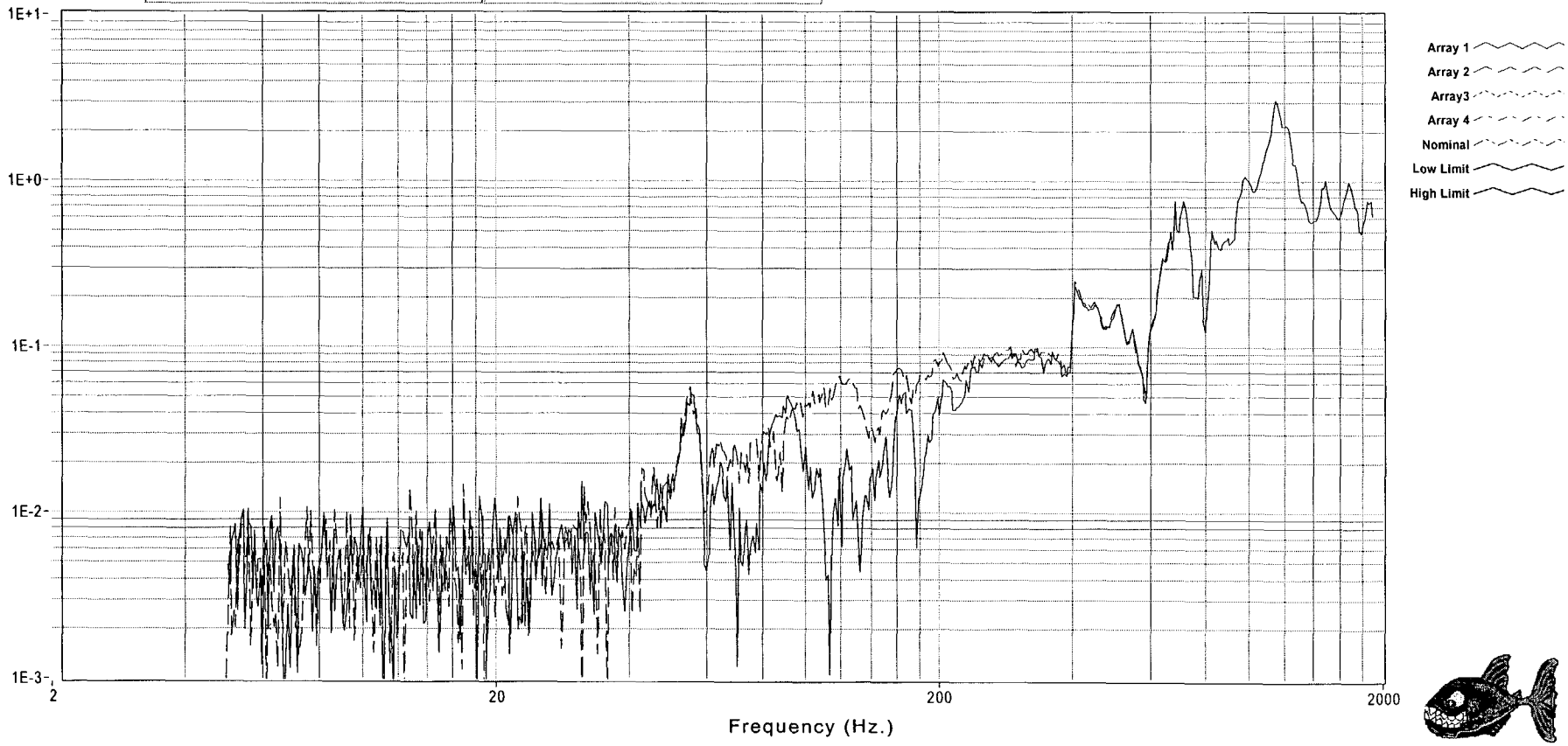
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A9 Y Channel #24	A9 Y Channel #24
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.104E+0 at 1152.0 Hz.	Maximum = 4.454E-1 at 659.6 Hz.
Overall or RMS	N/A	N/A



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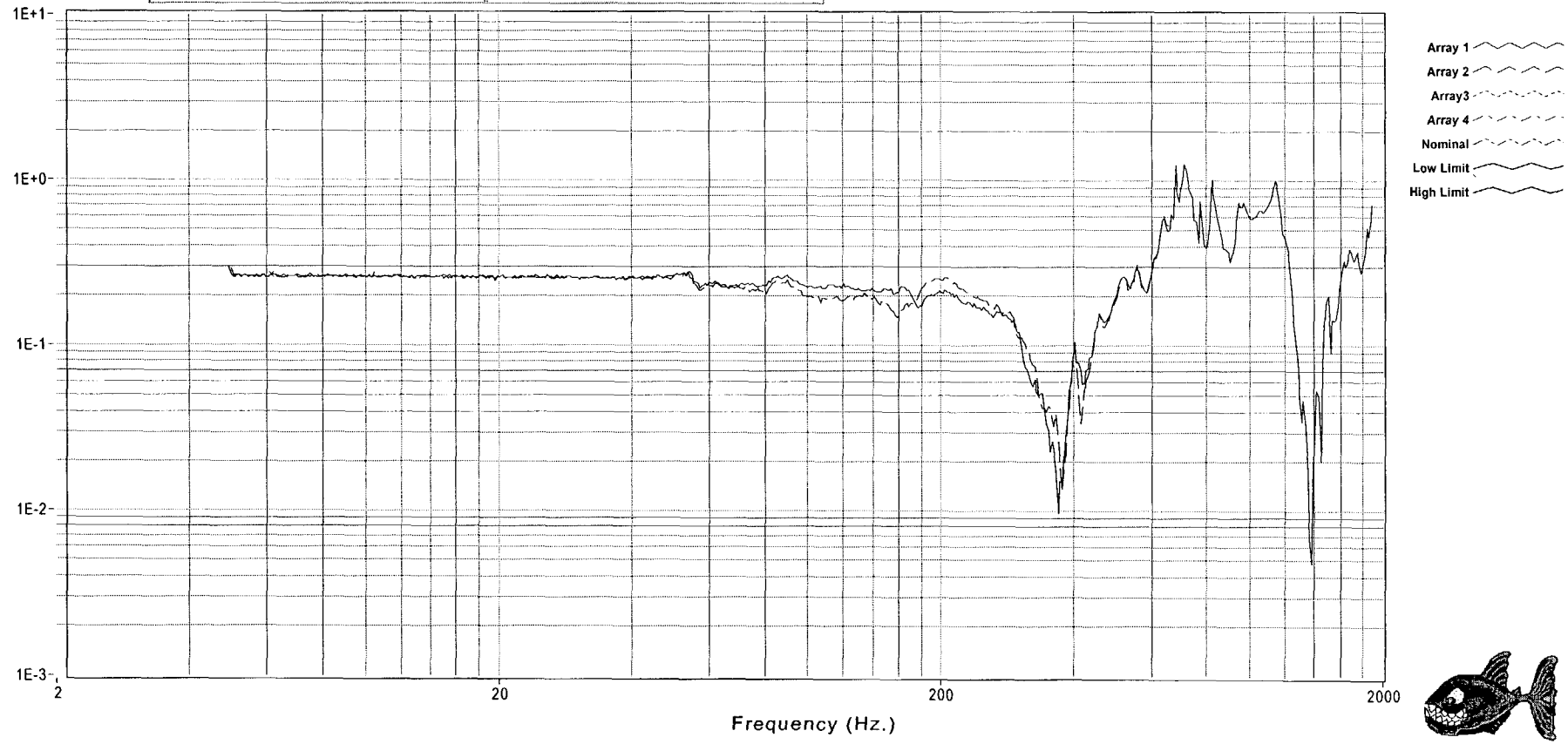
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A9 Z Channel #25	A9 Z Channel #25
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.256E+0 at 714.3 Hz.	Maximum = 6.154E-1 at 640.2 Hz.
Overall or RMS	N/A	N/A



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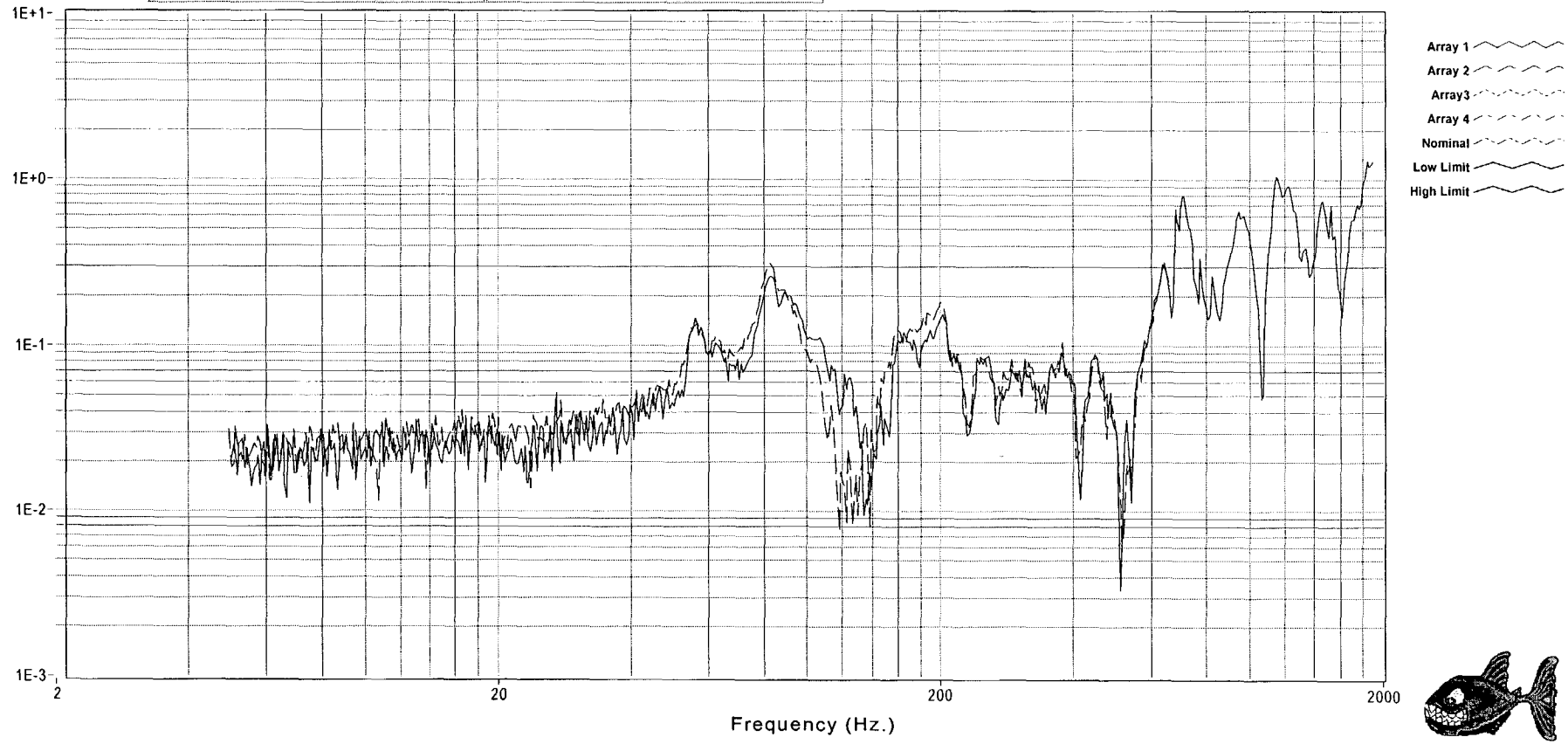
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A10 X Channel #26	A10 X Channel #26
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.308E+0 at 1838.0 Hz.	Maximum = 3.309E-1 at 640.2 Hz.
Overall or RMS	N/A	N/A



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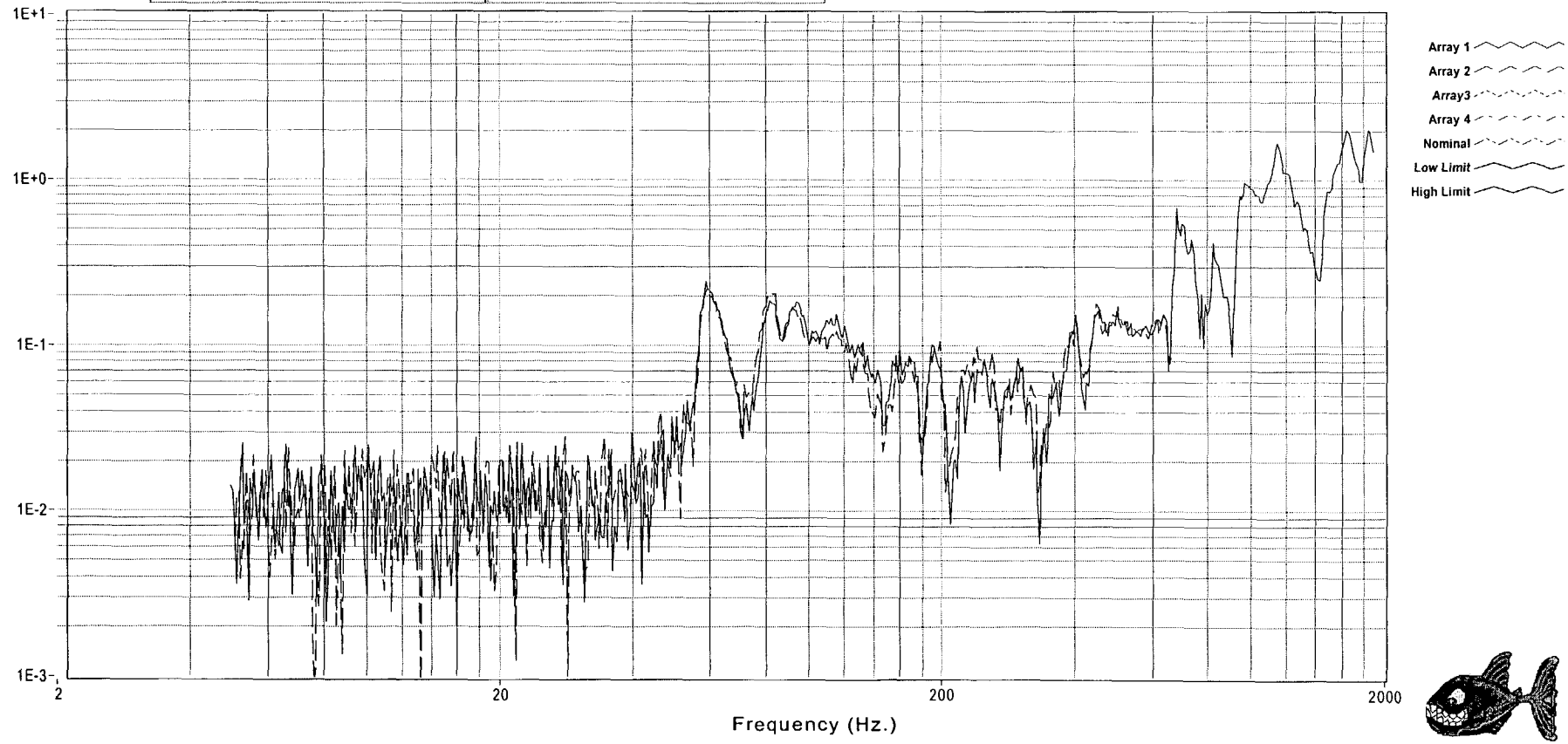
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A10 Y Channel #27	A10 Y Channel #27
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.023E+0 at 1838.0 Hz.	Maximum = 2.207E-1 at 59.4 Hz.
Overall or RMS	N/A	N/A



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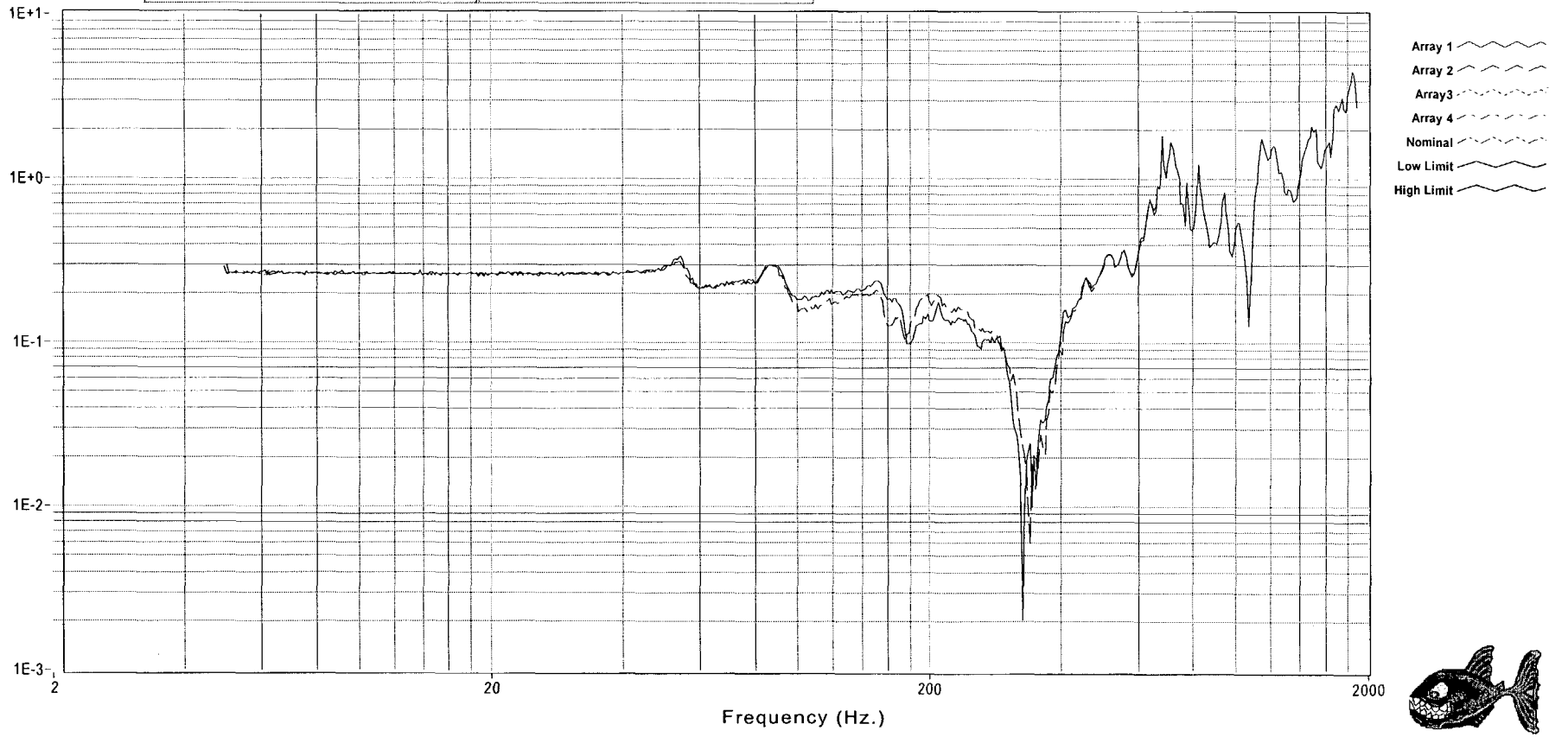
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A10 Z Channel #28	A10 Z Channel #28
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.511E+0 at 1838.0 Hz.	Maximum = 7.629E-1 at 640.2 Hz.
Overall or RMS	N/A	N/A



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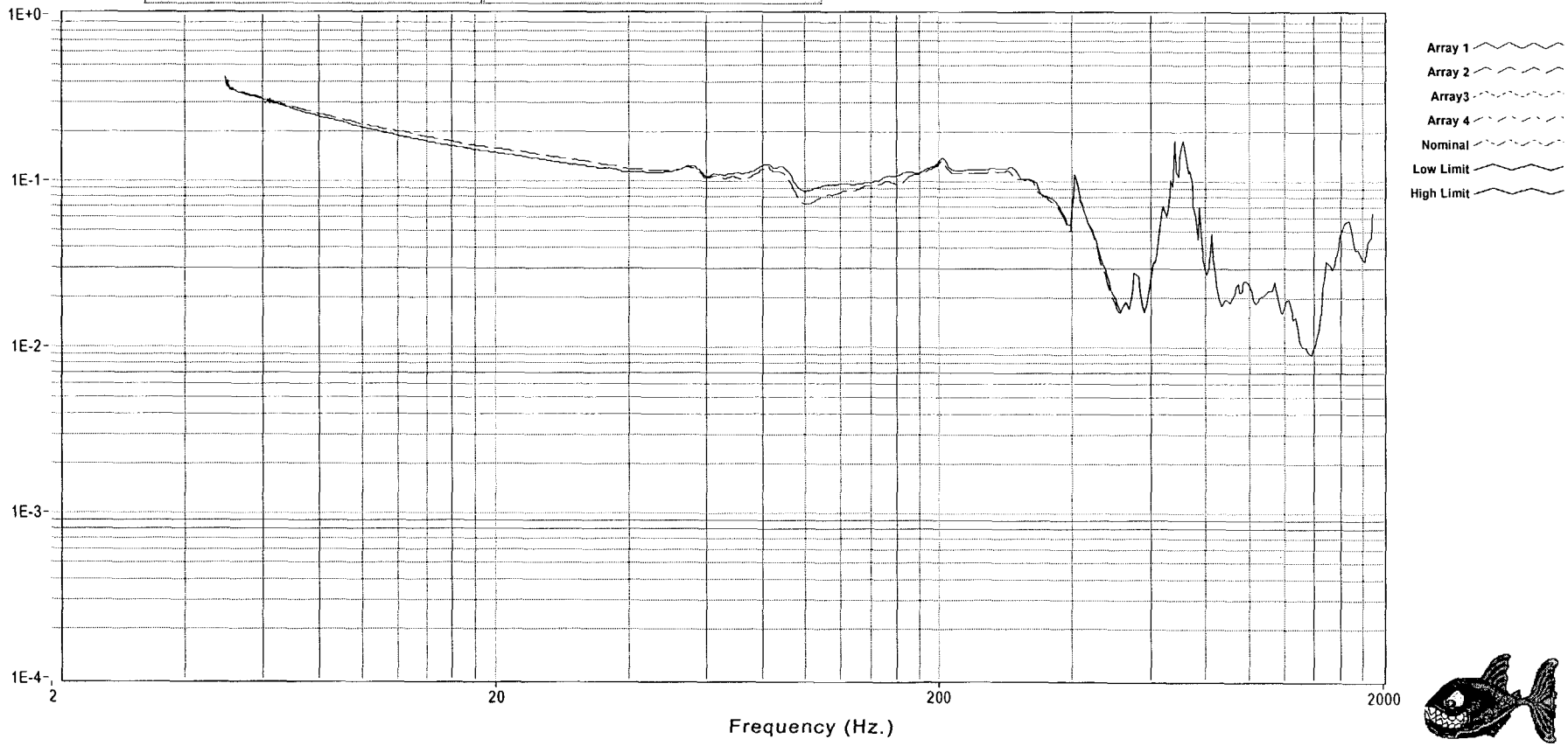
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	DRIVE Channel #31	DRIVE Channel #31
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.049E-1 at 5.0 Hz.	Maximum = 4.219E-1 at 4.9 Hz.
Overall or RMS	N/A	N/A



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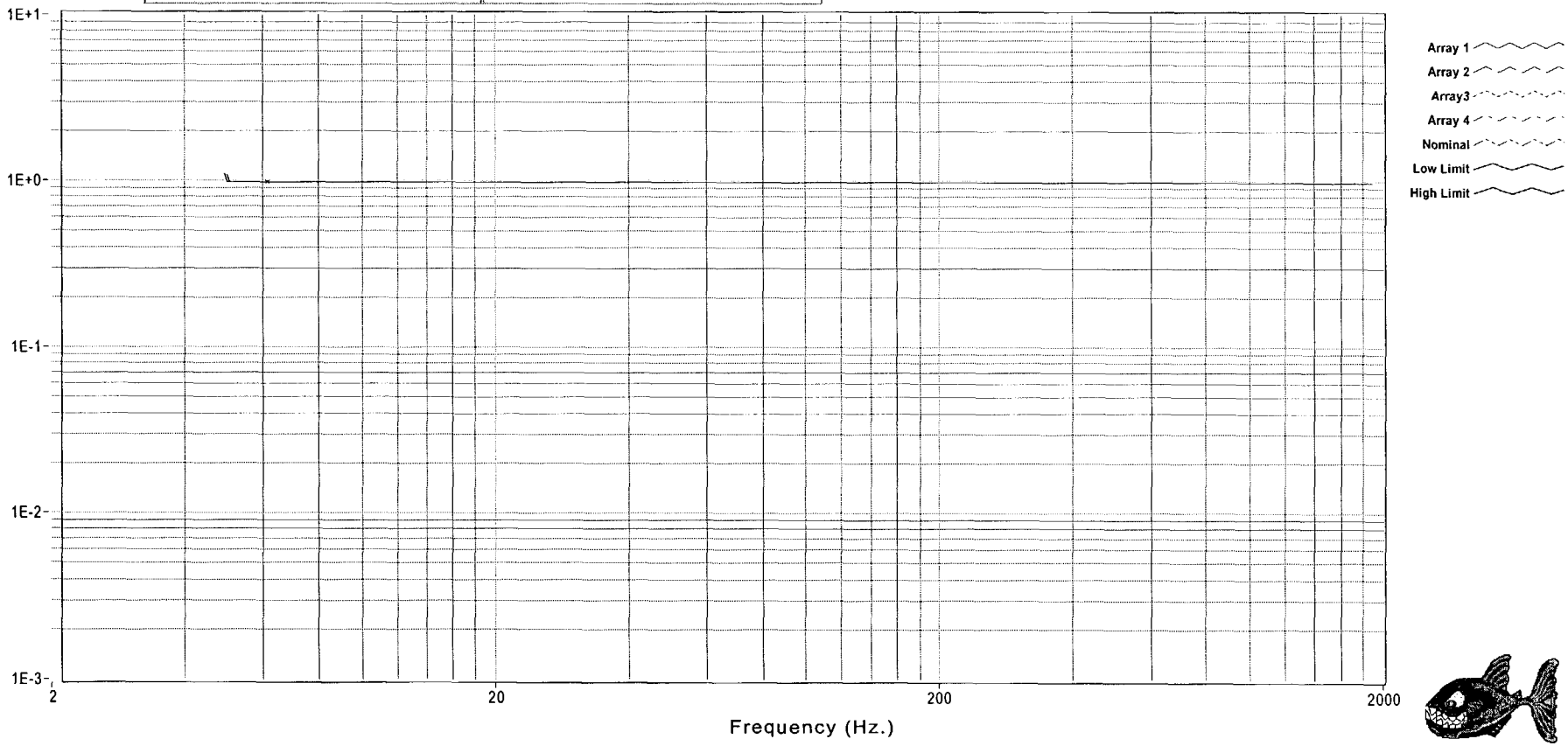
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	COLA Channel #32	COLA Channel #32
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.095E+0 at 5.0 Hz.	Maximum = 1.100E+0 at 4.9 Hz.
Overall or RMS	N/A	N/A



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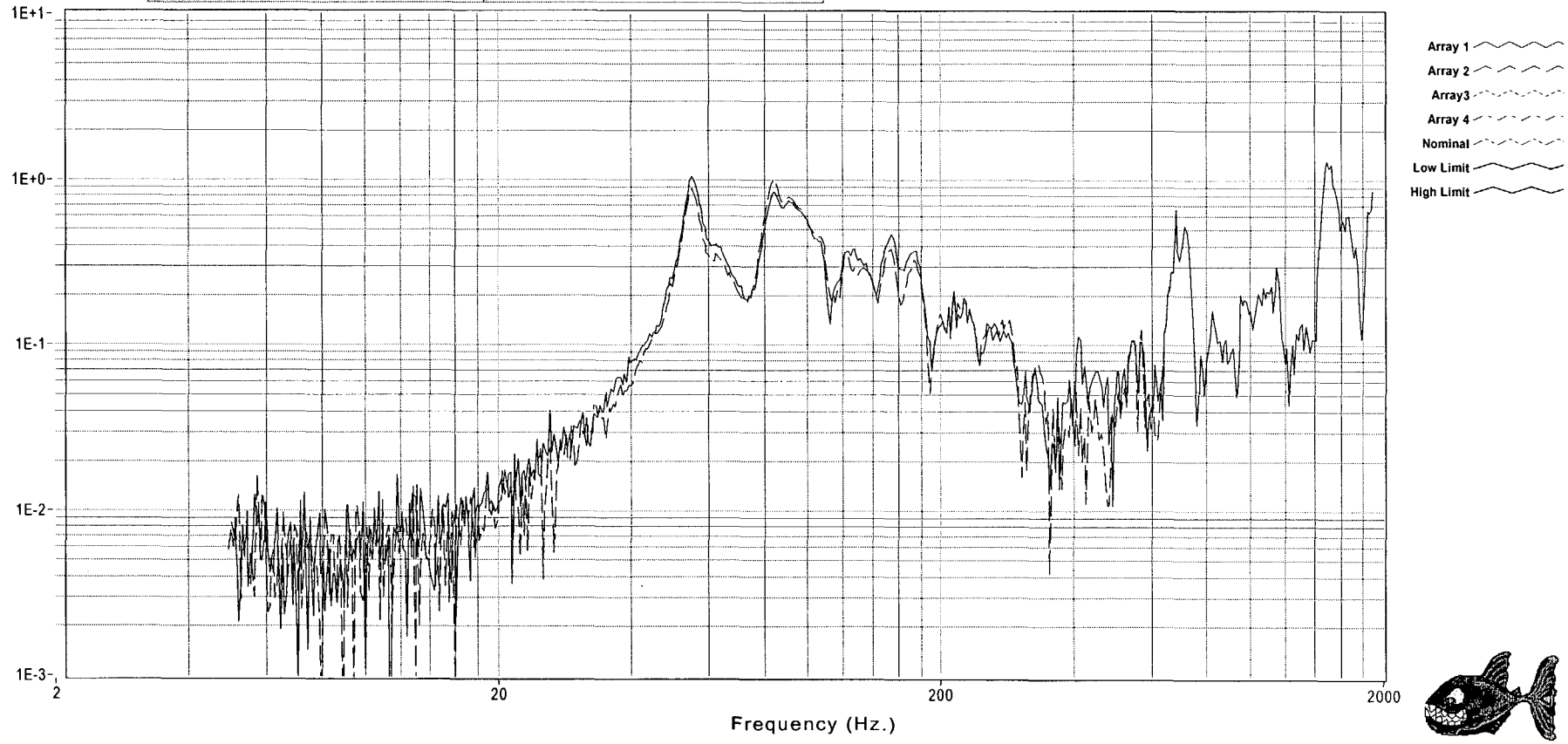
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A1Y: +Y PANEL UPPER Channel #34	A1Y: +Y PANEL UPPER Channel #34
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 2 SN=AC40	BOX 3 CH 2 SN=AC40
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.309E+0 at 1492.0 Hz.	Maximum = 1.014E+0 at 84.1 Hz.
Overall or RMS	N/A	N/A



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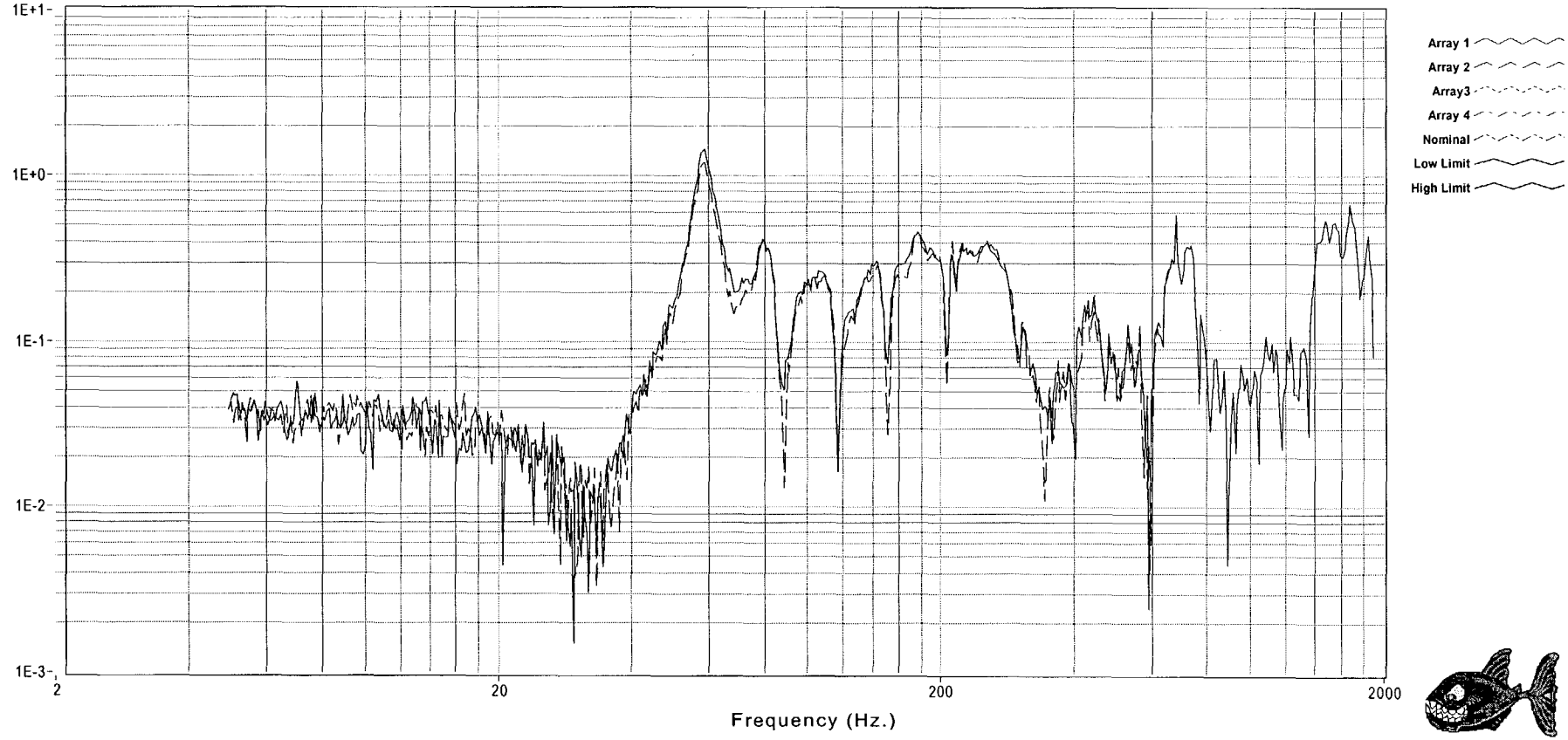
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A1X: +Y PANEL UPPER Channel #33	A1X: +Y PANEL UPPER Channel #33
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 1 SN=AE71-1	BOX 3 CH 1 SN=AE71-1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.448E+0 at 58.8 Hz.	Maximum = 1.211E+0 at 58.8 Hz.
Overall or RMS	N/A	N/A



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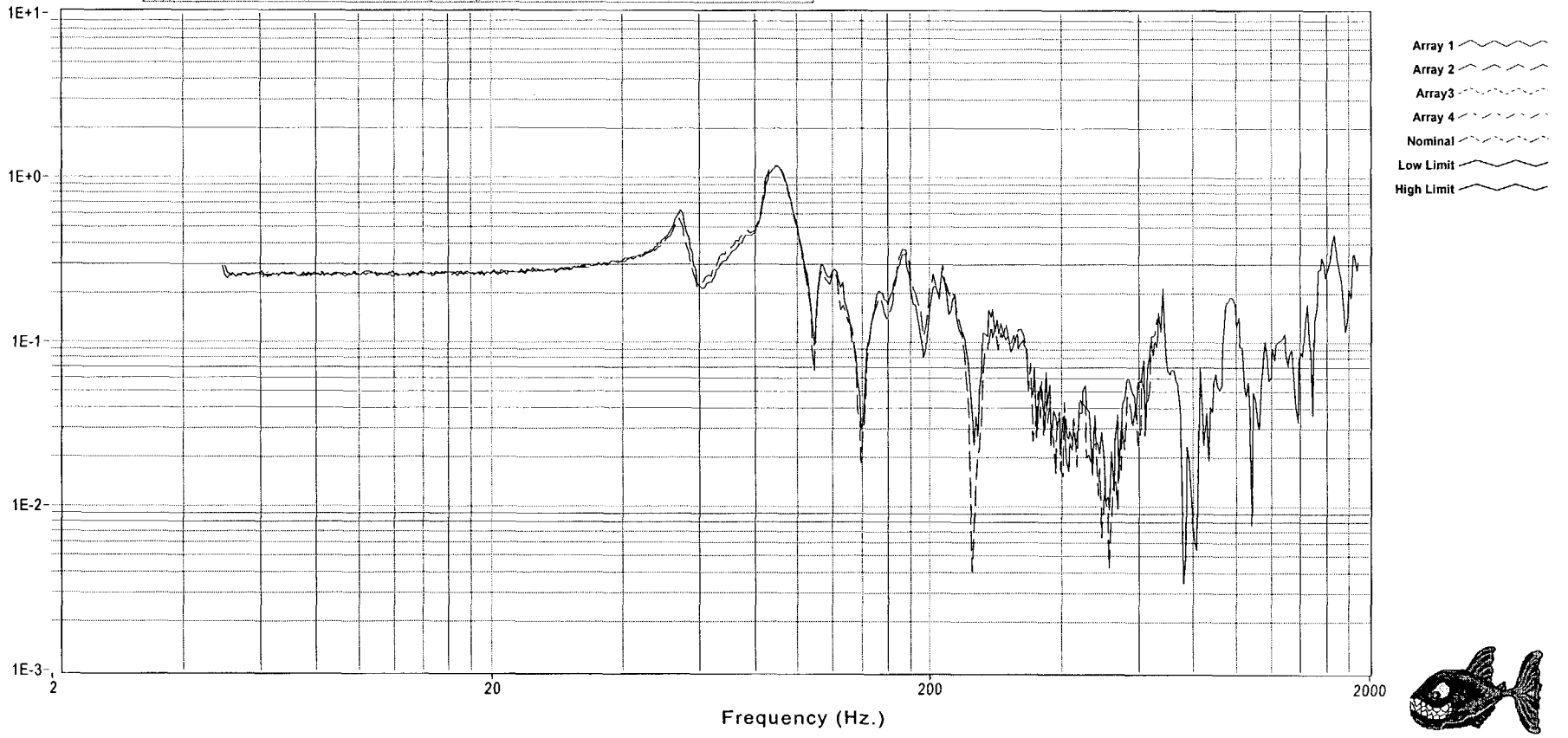
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A1Z: +Y PANEL UPPER Channel #35	A1Z: +Y PANEL UPPER Channel #35
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 3 SN=AD72	BOX 3 CH 3 SN=AD72
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.158E+0 at 89.3 Hz.	Maximum = 1.177E+0 at 89.3 Hz.
Overall or RMS	N/A	N/A



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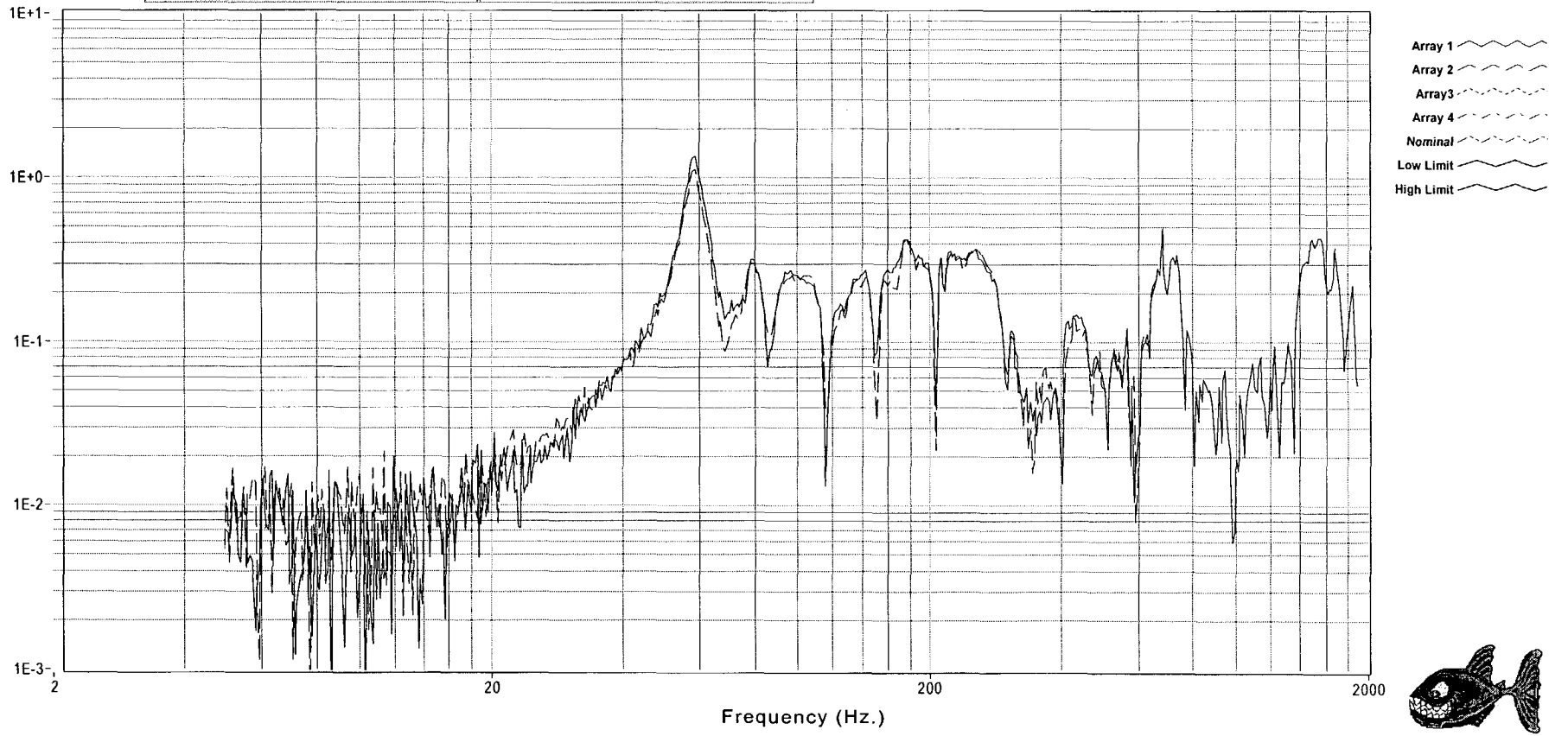
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A1RX: +Y PANEL UPPERChannel #36	A1RX: +Y PANEL UPPERChannel #36
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 4 SN=AF35	BOX 3 CH 4 SN=AF35
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.347E+0 at 58.8 Hz.	Maximum = 1.128E+0 at 58.8 Hz.
Overall or RMS	N/A	N/A



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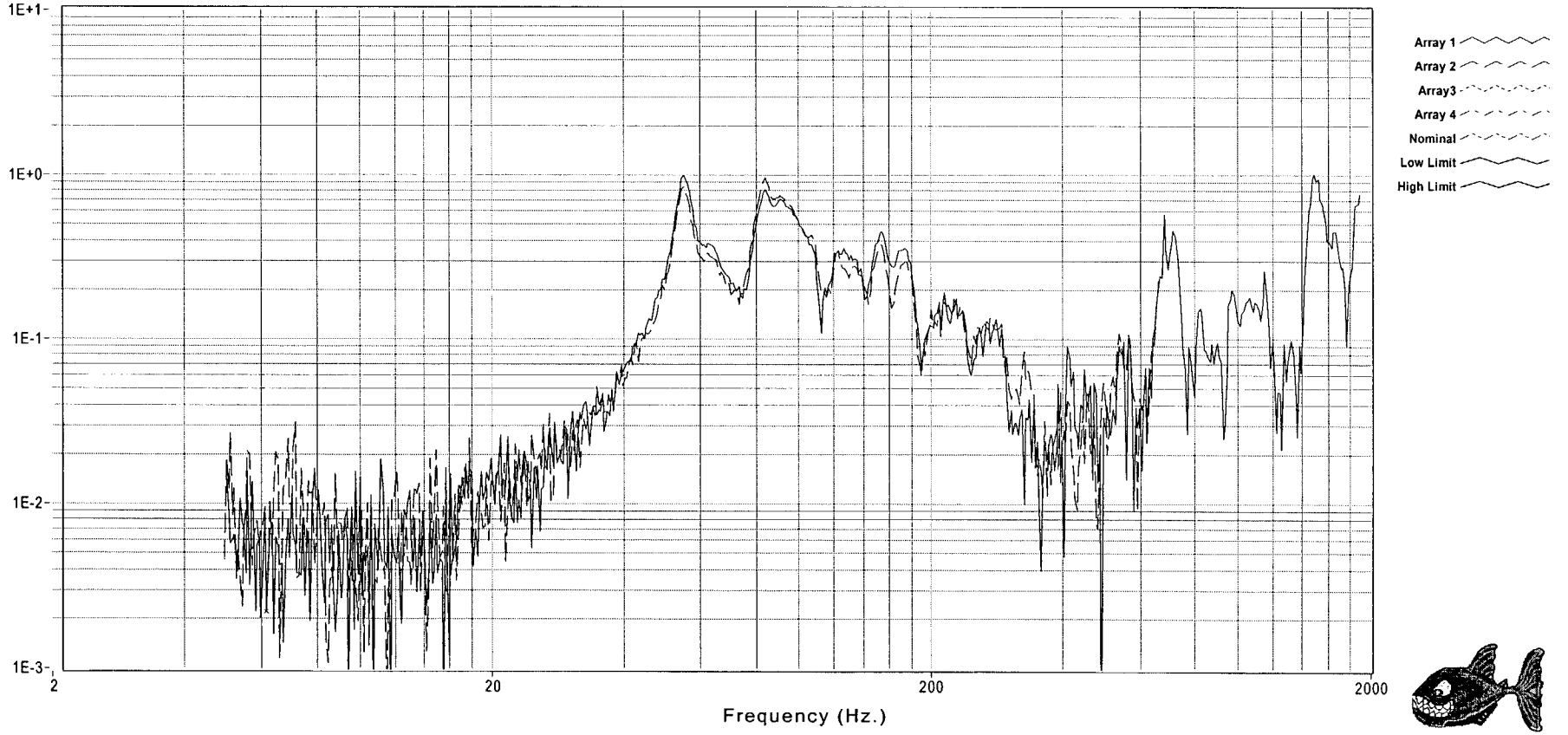
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A1RY: +Y PANEL UPPERChannel #37	A1RY: +Y PANEL UPPERChannel #37
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 5 SN=AB88	BOX 3 CH 5 SN=AB88
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.021E+0 at 1492.0 Hz.	Maximum = 9.706E-1 at 84.1 Hz.
Overall or RMS	N/A	N/A



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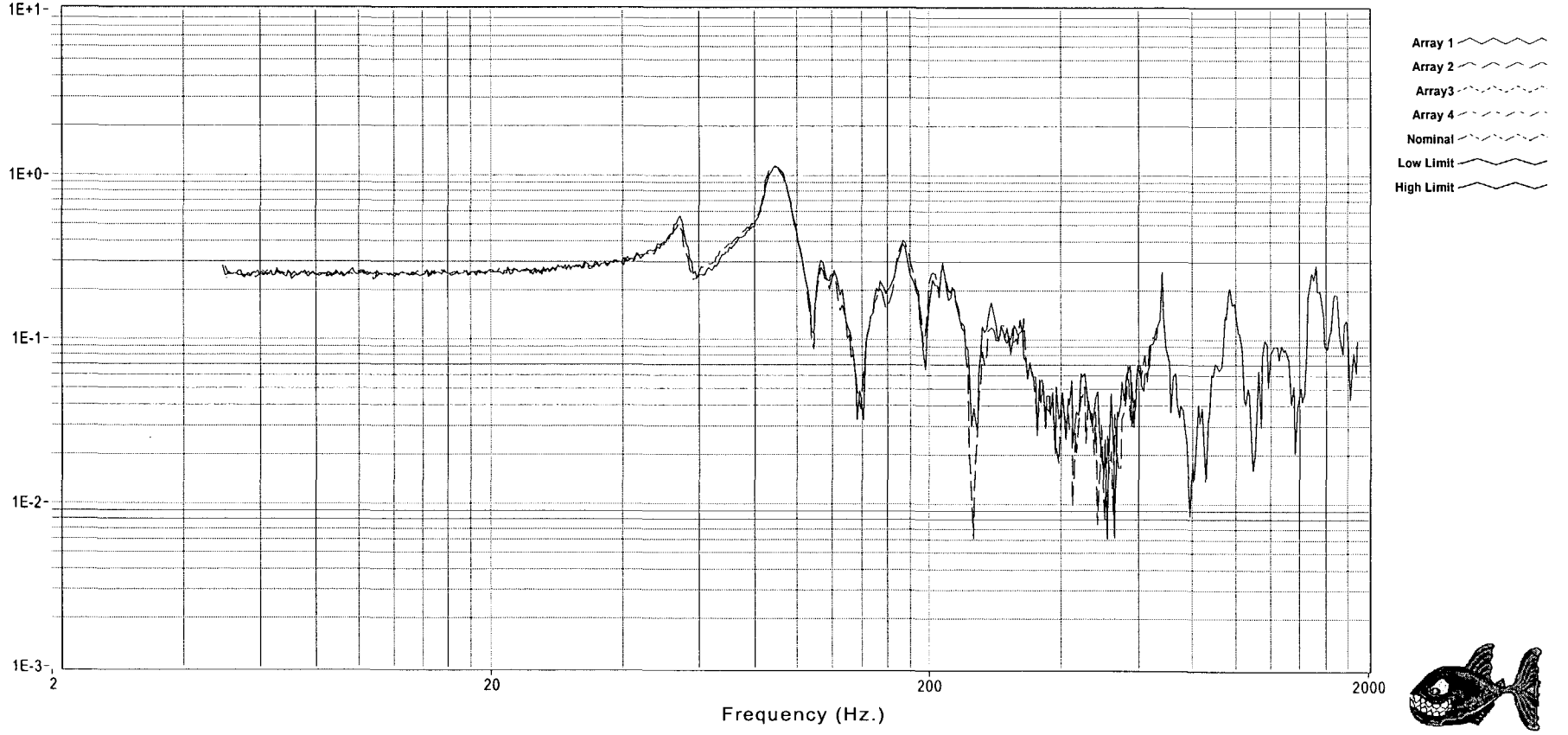
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A1RZ: +Y PANEL UPPERChannel #38	A1RZ: +Y PANEL UPPERChannel #38
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 6 SN=AG51	BOX 3 CH 6 SN=AG51
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.119E+0 at 90.2 Hz.	Maximum = 1.136E+0 at 89.3 Hz.
Overall or RMS	N/A	N/A



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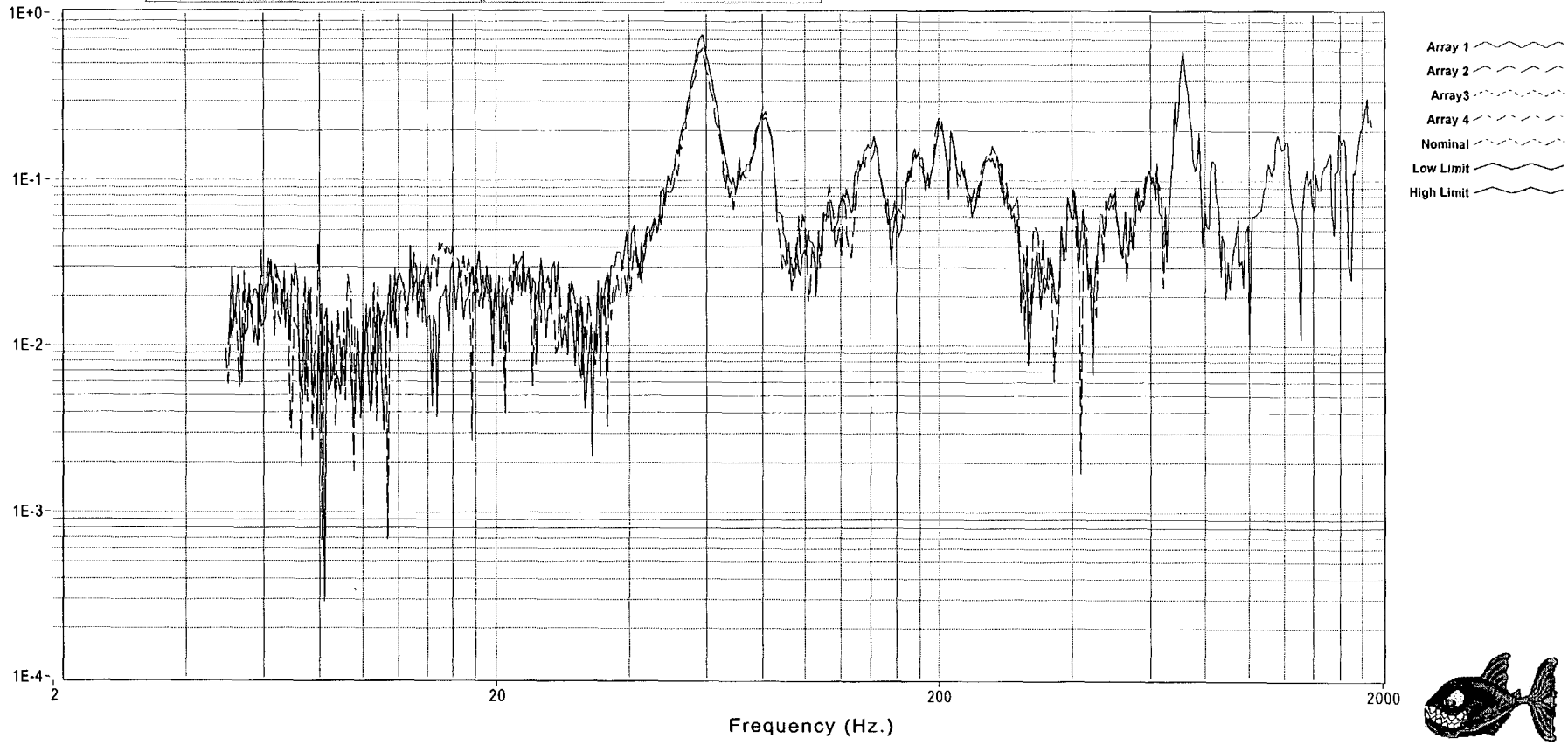
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A2X: +Y PANEL LOWER TEN Channel #39	A2X: +Y PANEL LOWER TEN Channel #39
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 7 SN=AK10	BOX 3 CH 7 SN=AK10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.475E-1 at 58.8 Hz.	Maximum = 6.199E-1 at 58.8 Hz.
Overall or RMS	N/A	N/A



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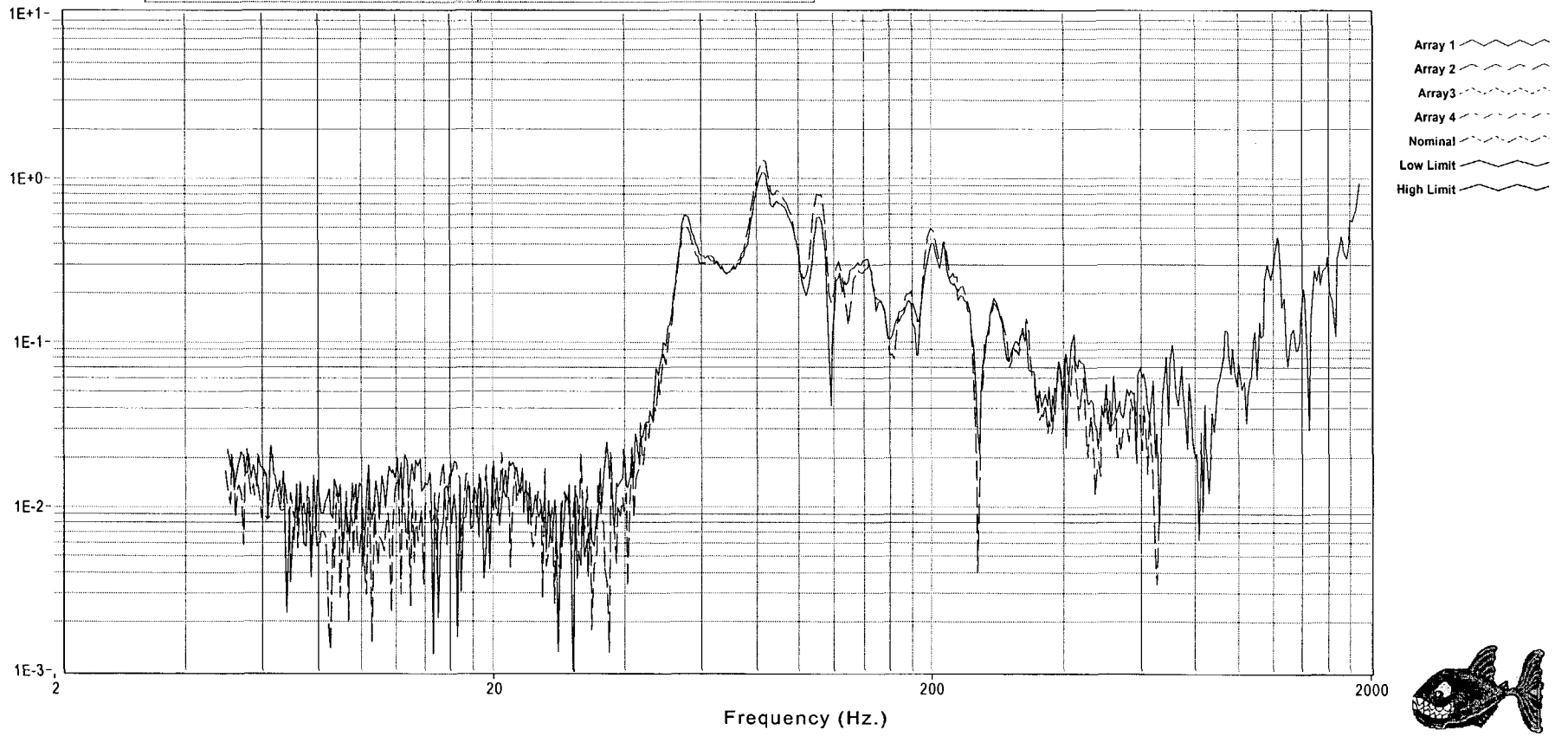
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A2Y: +Y PANEL LOWER CEN Channel #40	A2Y: +Y PANEL LOWER CEN Channel #40
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 8 SN=AB06	BOX 3 CH 8 SN=AB06
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.087E+0 at 83.3 Hz.	Maximum = 1.295E+0 at 83.3 Hz.
Overall or RMS	N/A	N/A



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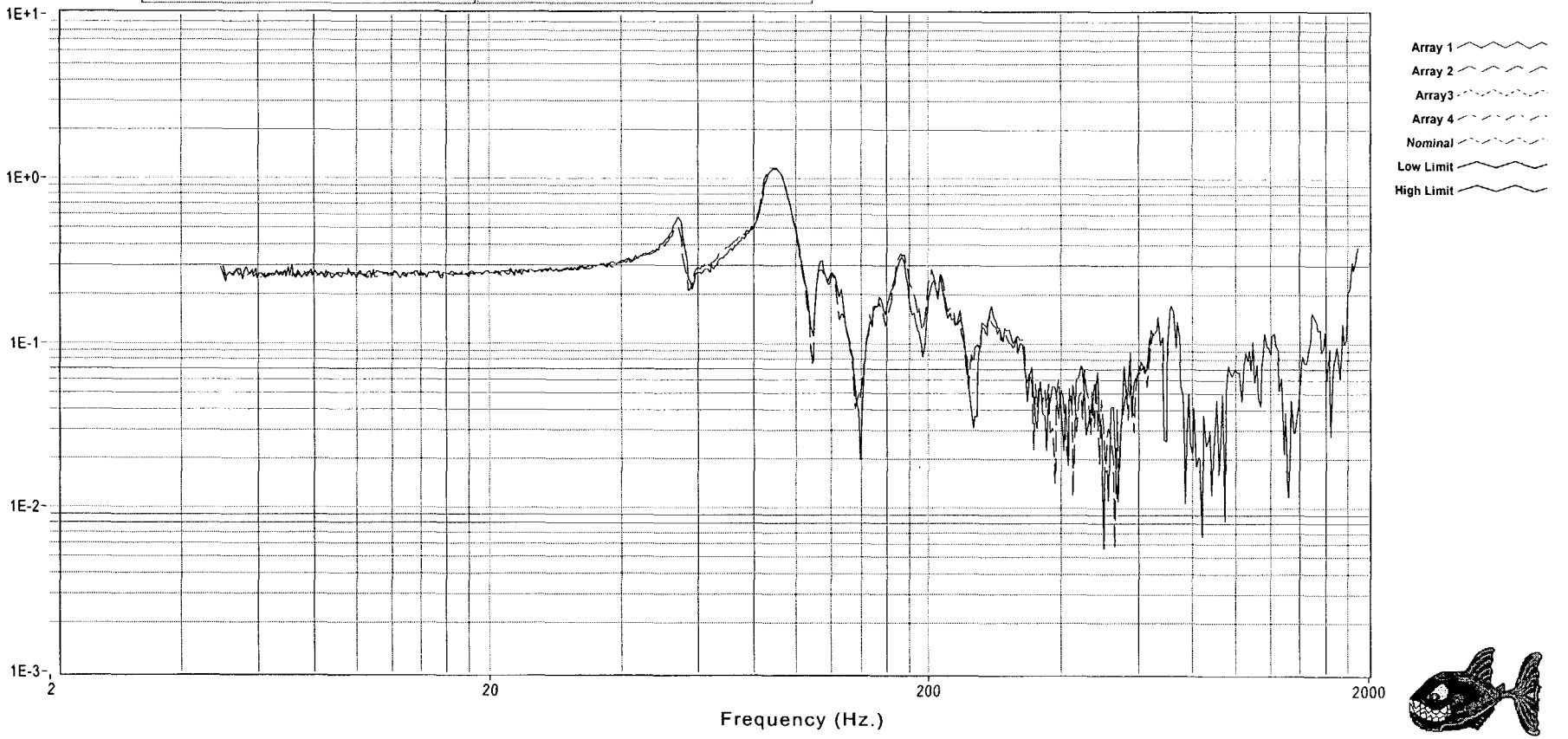
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A2Z: +Y PANEL LOWER Channel #41	A2Z: +Y PANEL LOWER Channel #41
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 9 SN=AF28	BOX 3 CH 9 SN=AF28
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.150E+0 at 89.3 Hz.	Maximum = 1.167E+0 at 88.4 Hz.
Overall or RMS	N/A	N/A



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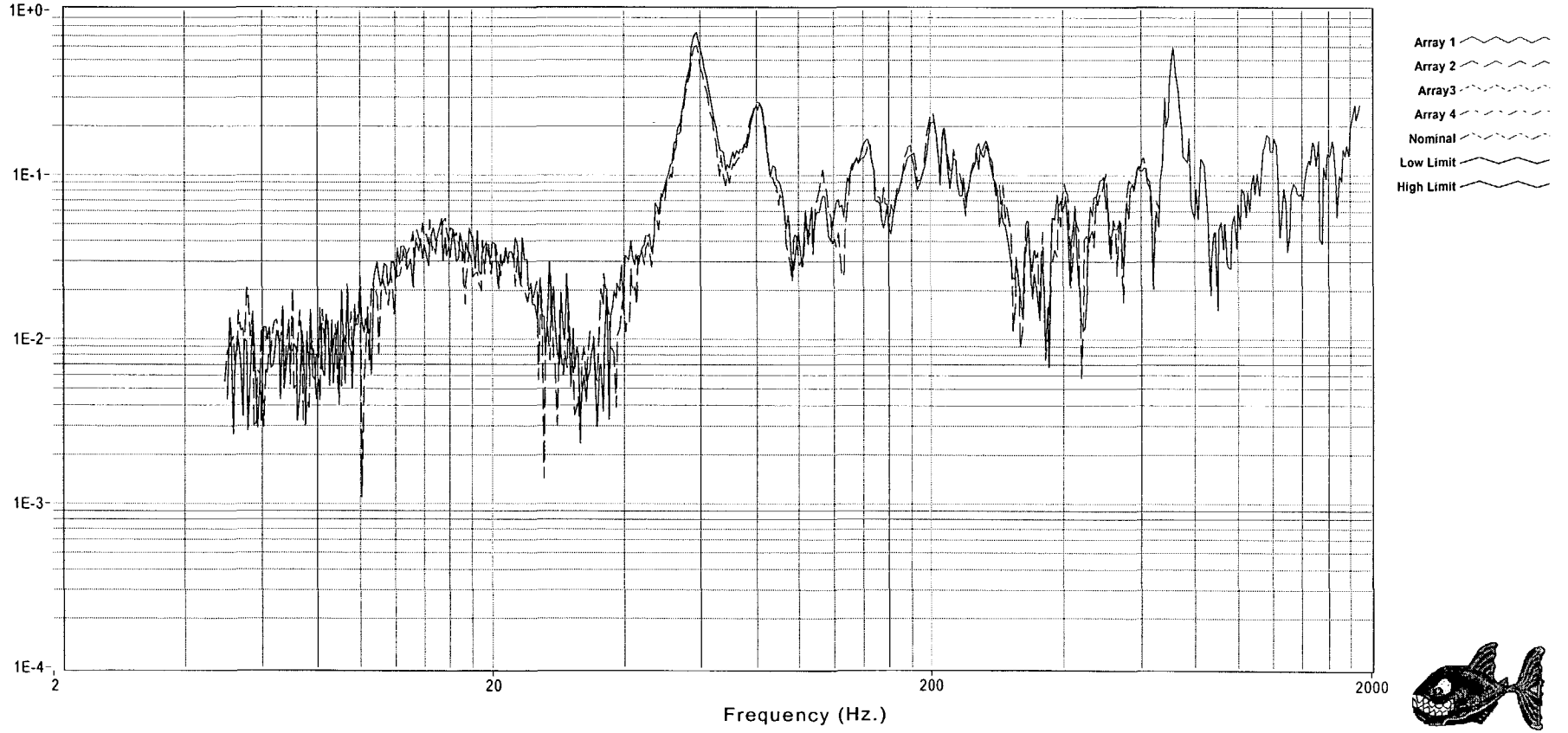
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A2RX: +Y PANEL LOWER TEST Channel #42	A2RX: +Y PANEL LOWER TEST Channel #42
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 10 SN=AJ30	BOX 3 CH 10 SN=AJ30
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.372E-1 at 58.8 Hz.	Maximum = 6.157E-1 at 58.8 Hz.
Overall or RMS	N/A	N/A



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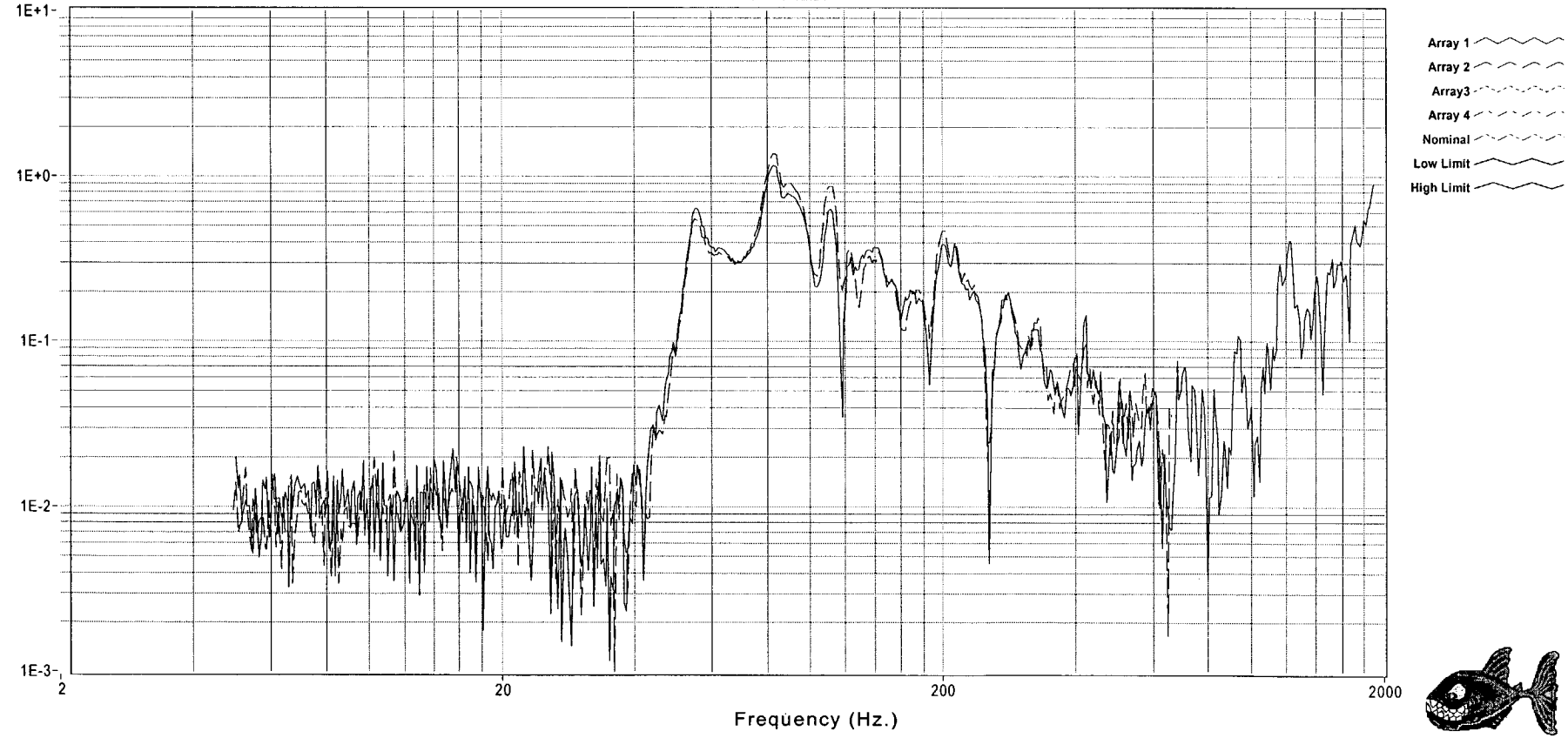
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A2RY: +Y PANEL LOWER TEST Channel #43	A2RY: +Y PANEL LOWER TEST Channel #43
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 11 SN=AE60	BOX 3 CH 11 SN=AE60
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.170E+0 at 82.4 Hz.	Maximum = 1.387E+0 at 83.3 Hz.
Overall or RMS	N/A	N/A



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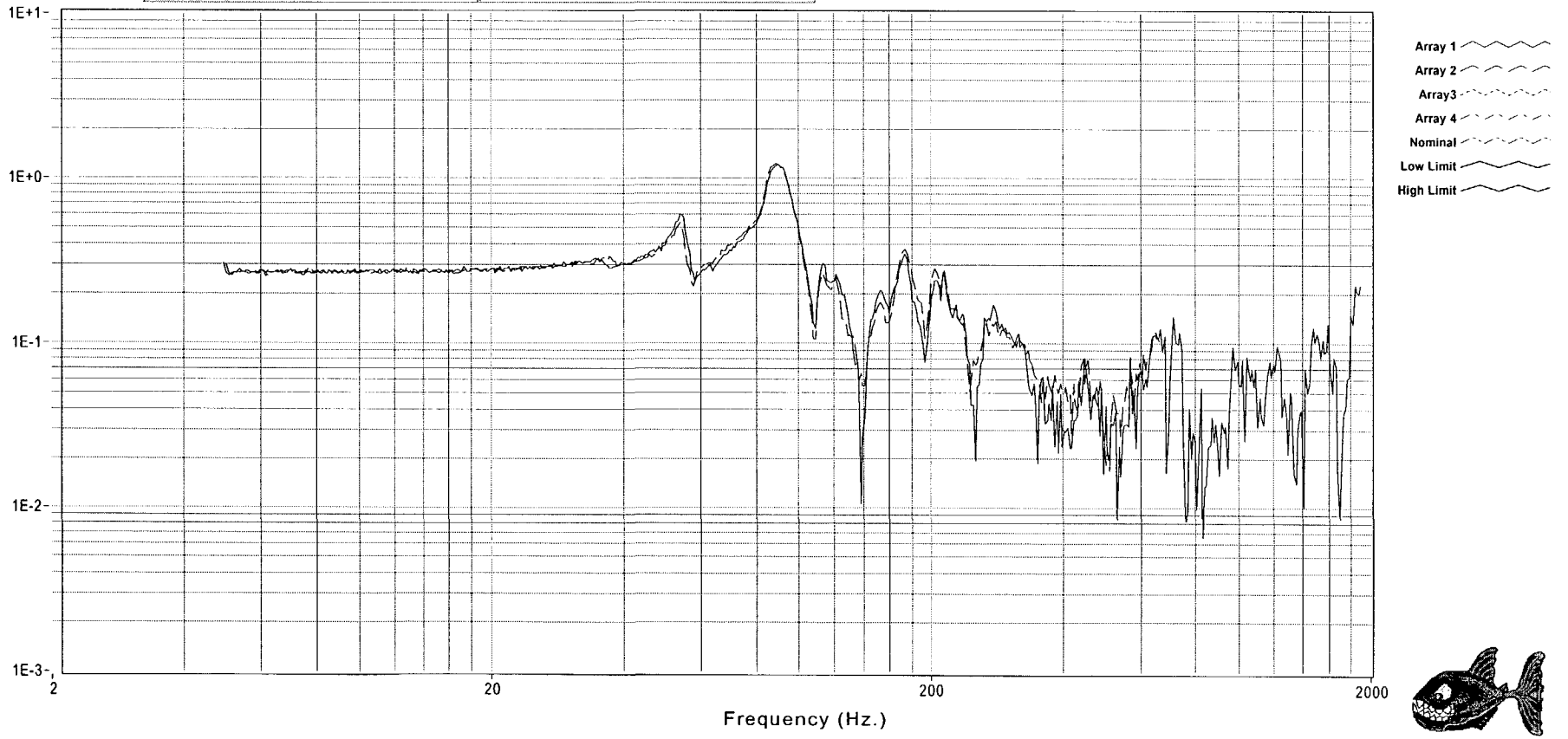
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A2RZ: +Y PANEL LOWER TEST Channel #44	A2RZ: +Y PANEL LOWER TEST Channel #44
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 12 SN=AG01	BOX 3 CH 12 SN=AG01
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.205E+0 at 90.2 Hz.	Maximum = 1.219E+0 at 89.3 Hz.
Overall or RMS	N/A	N/A



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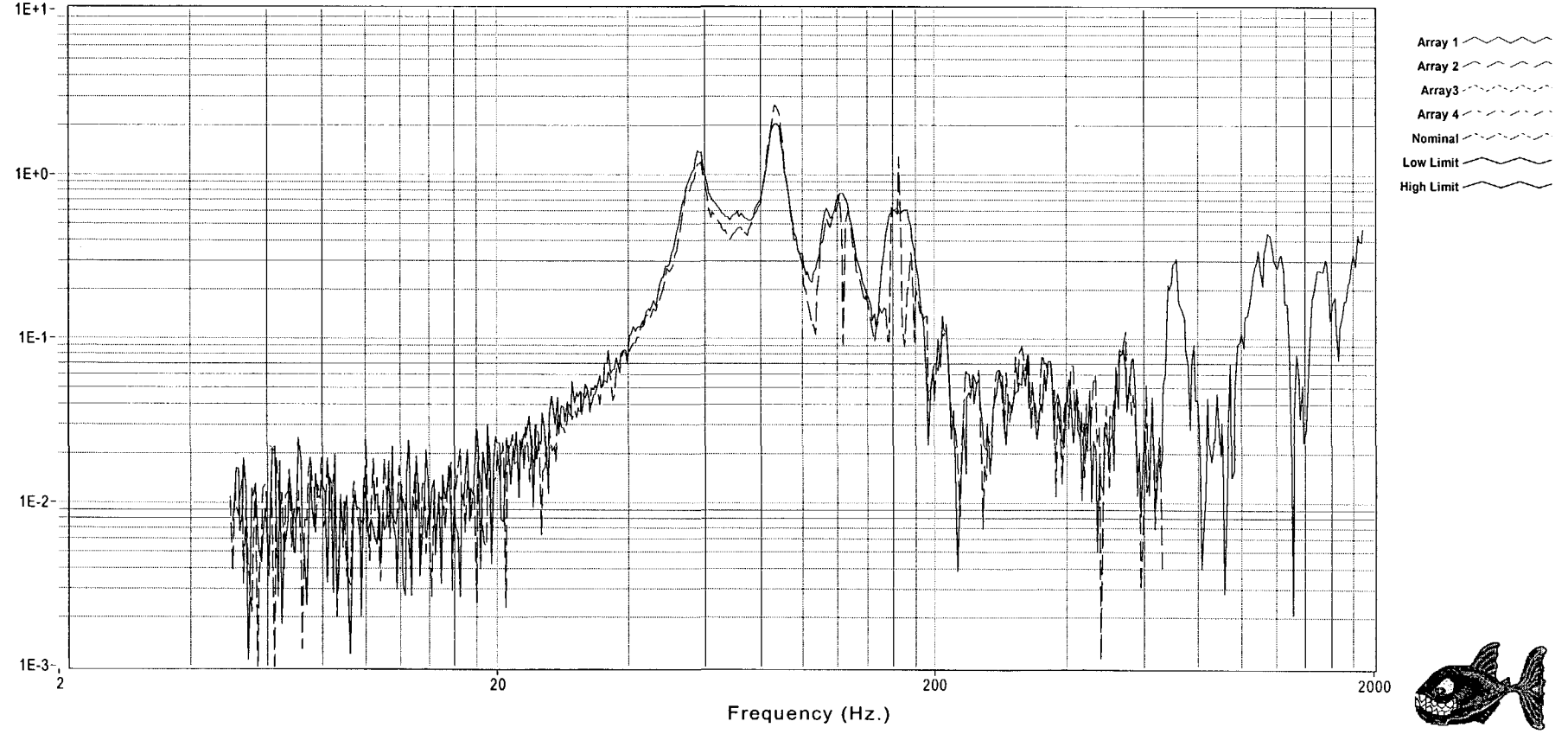
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A3X: +X PANEL UPPER CCh Channel #45	A3X: +X PANEL UPPER CCh Channel #45
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 13 SN=BC39
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.021E+0 at 87.5 Hz.	Maximum = 2.662E+0 at 86.6 Hz.
Overall or RMS	N/A	N/A



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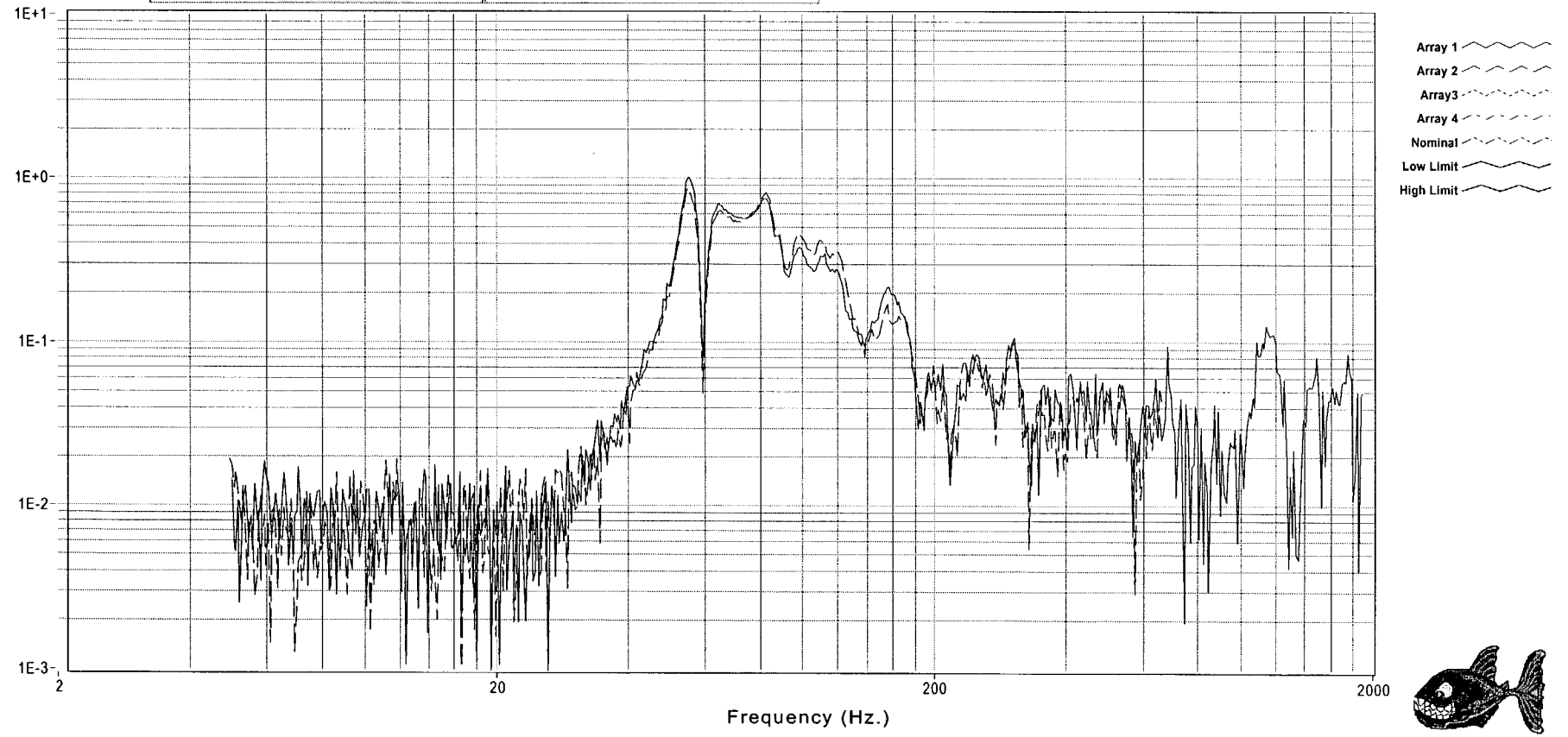
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A3Y: +X PANEL UPPER CCh Channel #46	A3Y: +X PANEL UPPER CCh Channel #46
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 14 SN=AG02	BOX 3 CH 14 SN=AG02
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.012E+0 at 54.8 Hz.	Maximum = 8.685E-1 at 54.8 Hz.
Overall or RMS	N/A	N/A



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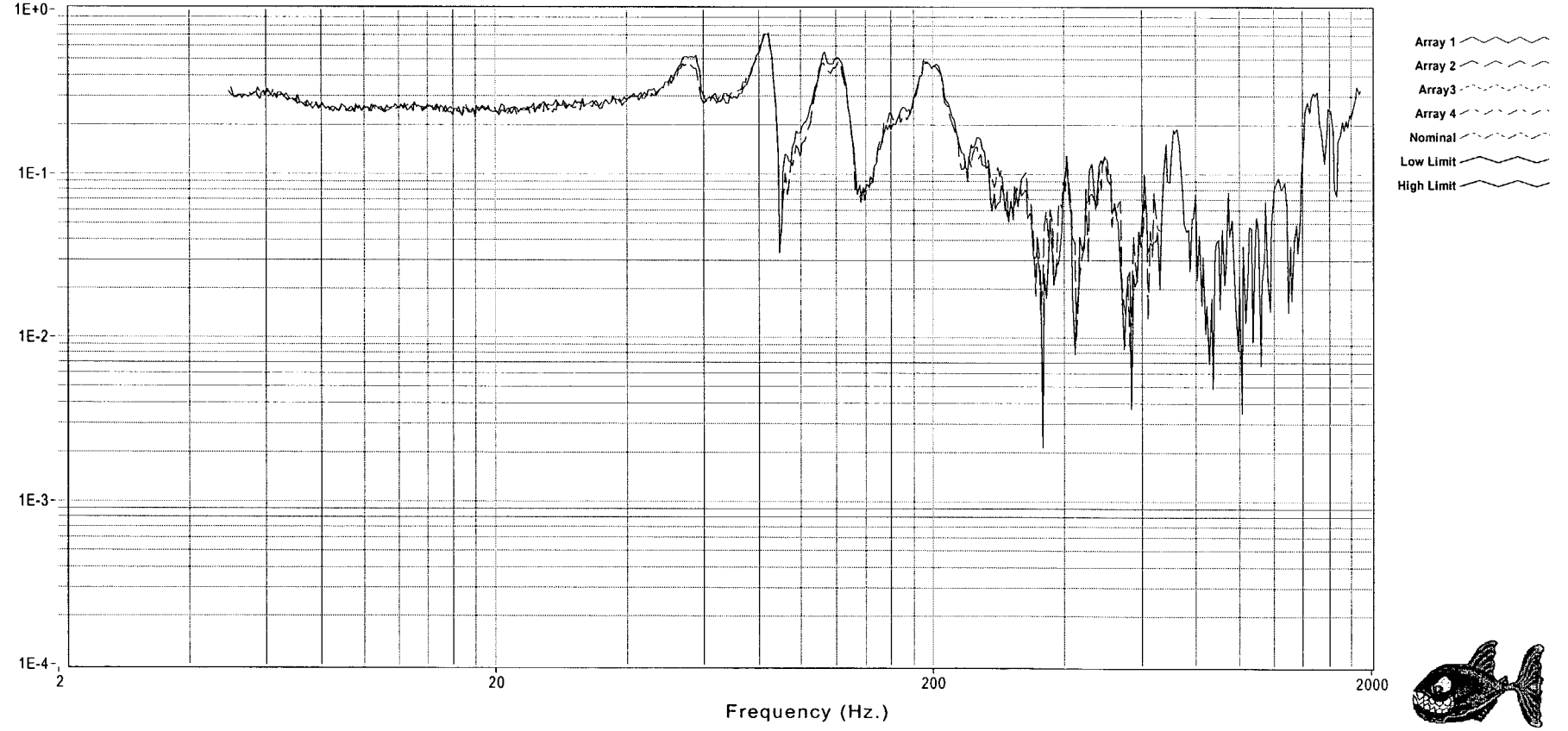
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A3Z: +X PANEL UPPER CCChannel #47	A3Z: +X PANEL UPPER CCChannel #47
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 15 SN=BC12	BOX 3 CH 15 SN=BC12
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.141E-1 at 83.3 Hz.	Maximum = 7.449E-1 at 83.3 Hz.
Overall or RMS	N/A	N/A



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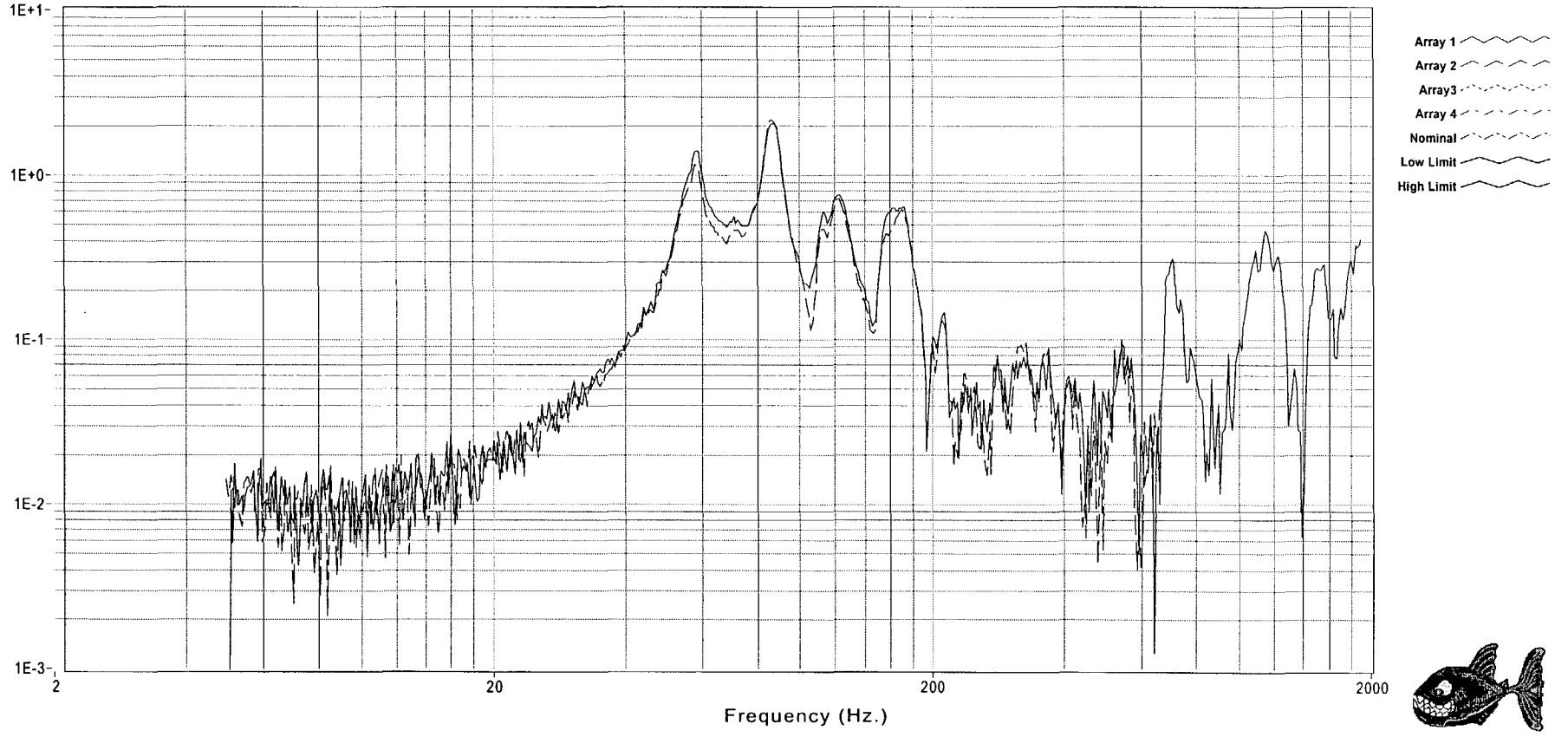
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A3RX: +X PANEL UPPER CCU Channel #48	A3RX: +X PANEL UPPER CCU Channel #48
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 3 CH 16 SN=AE43	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.076E+0 at 86.6 Hz.	Maximum = 2.157E+0 at 86.6 Hz.
Overall or RMS	N/A	N/A



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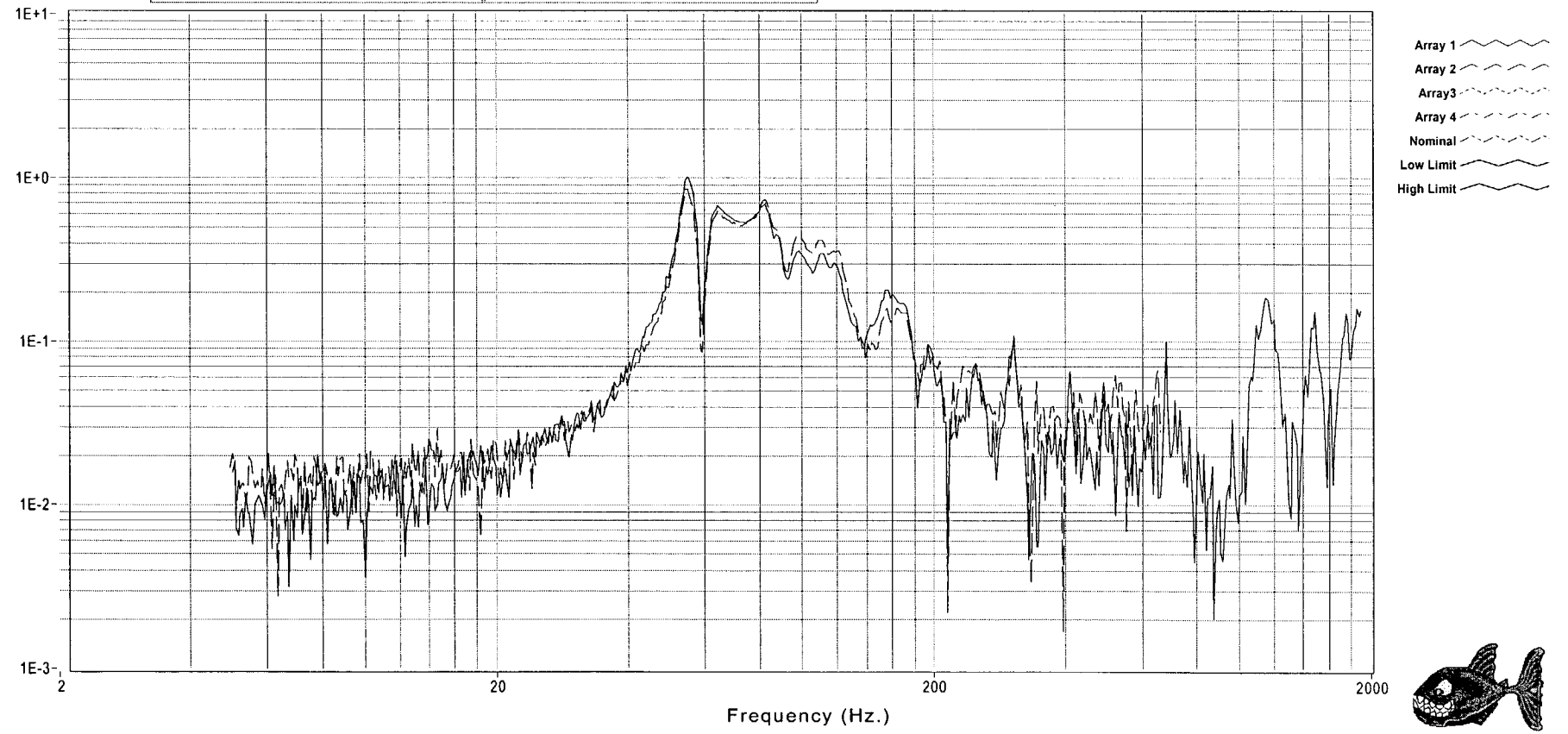
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A3RY: +X PANEL UPPER CEL Channel #49	A3RY: +X PANEL UPPER CEL Channel #49
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 1 SN=AF57	BOX 4 CH 1 SN=AF57
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.017E+0 at 54.8 Hz.	Maximum = 8.566E-1 at 54.8 Hz.
Overall or RMS	N/A	N/A



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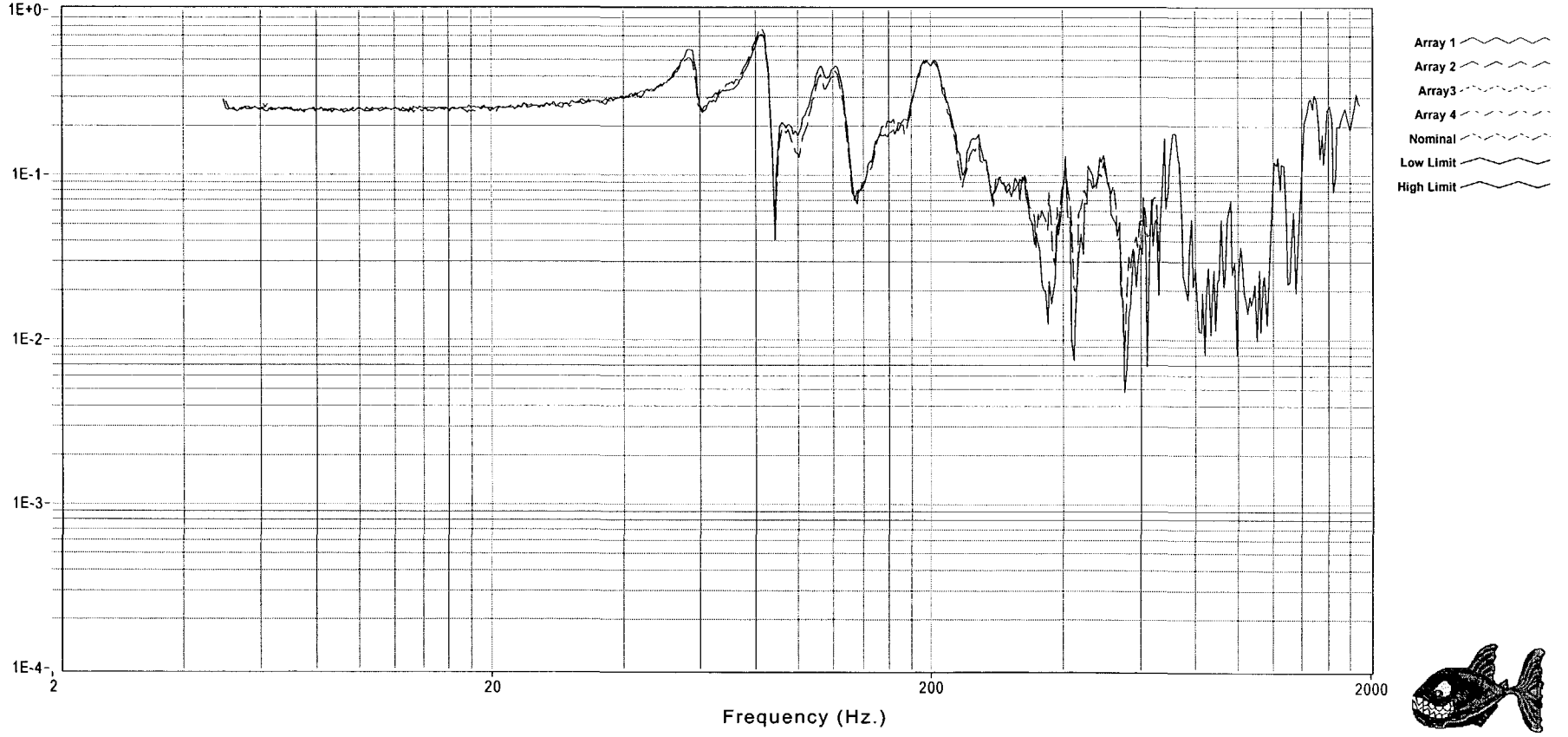
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A3RZ: +X PANEL UPPER CEL Channel #50	A3RZ: +X PANEL UPPER CEL Channel #50
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 2 SN=AB65	BOX 4 CH 2 SN=AB65
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.160E-1 at 83.3 Hz.	Maximum = 7.955E-1 at 82.4 Hz.
Overall or RMS	N/A	N/A



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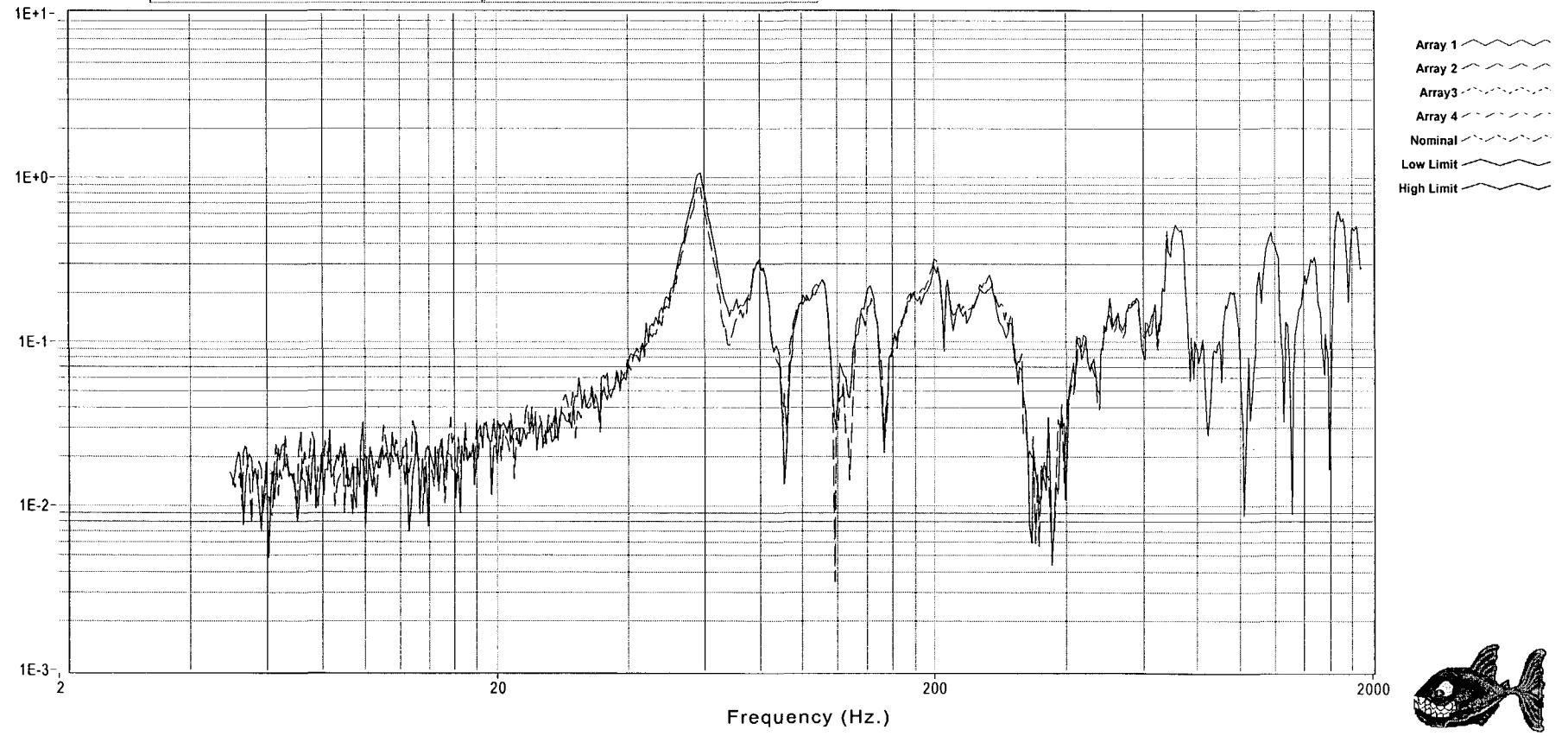
	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A4X: +Y PANEL MID-CMUChannel #51	A4X: +Y PANEL MID-CMUChannel #51
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 3 SN=AH55	BOX 4 CH 3 SN=AH55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.078E+0 at 58.8 Hz.	Maximum = 8.717E-1 at 58.8 Hz.
Overall or RMS	N/A	N/A



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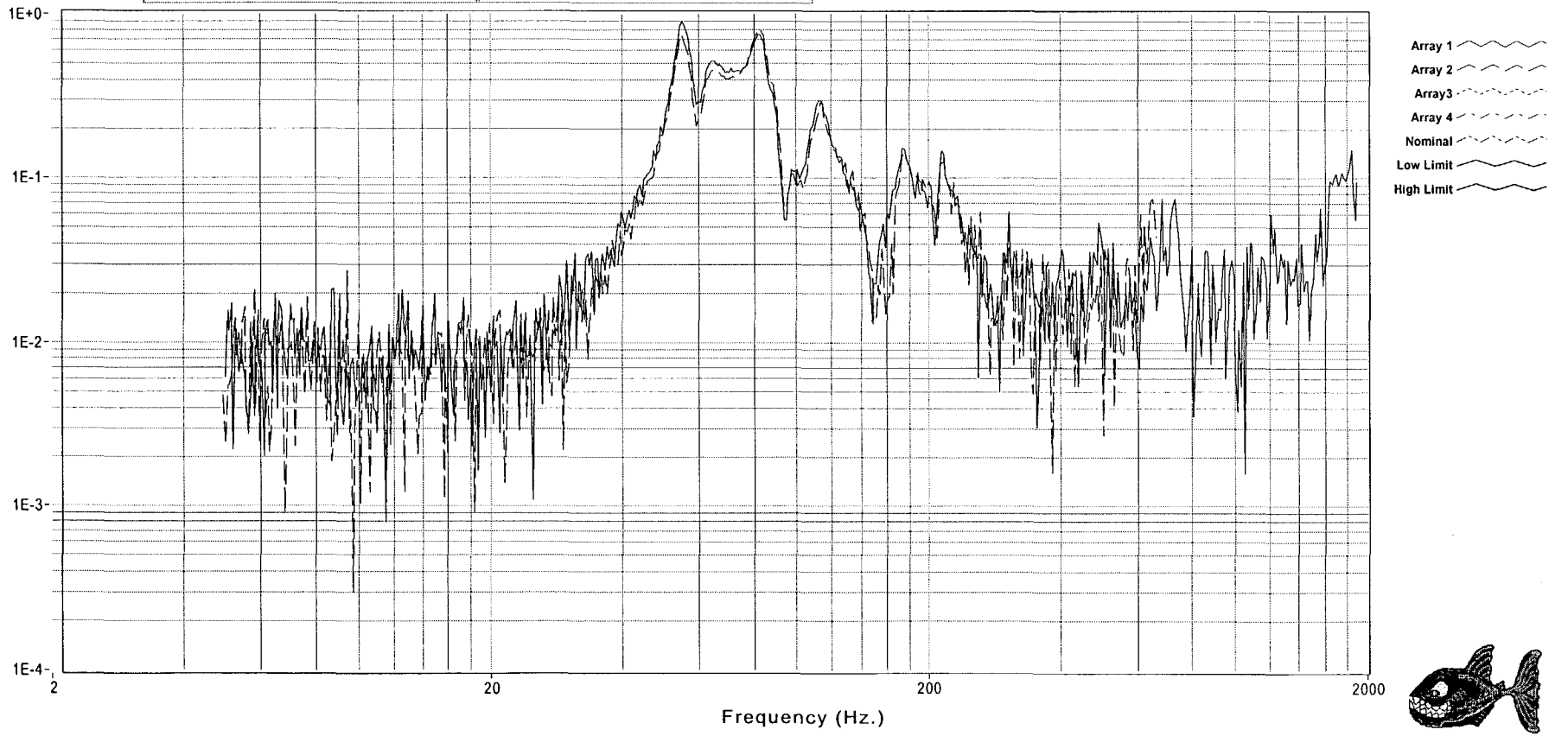
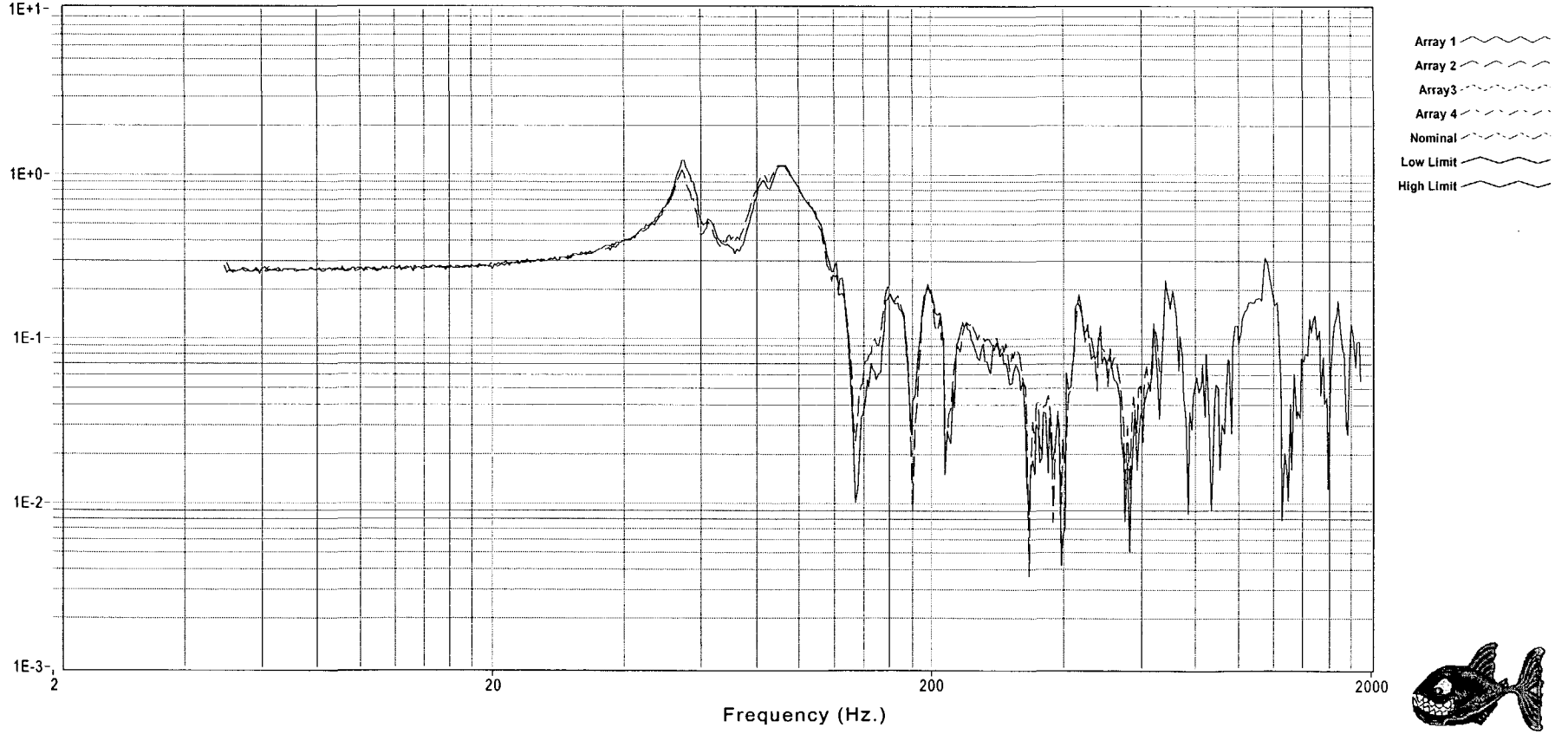
	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A4Y: +Y PANEL MID-CMUChannel #52	A4Y: +Y PANEL MID-CMUChannel #52
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 4 SN=AJ95	BOX 4 CH 4 SN=AJ95
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.997E-1 at 54.8 Hz.	Maximum = 8.129E-1 at 82.4 Hz.
Overall or RMS	N/A	N/A



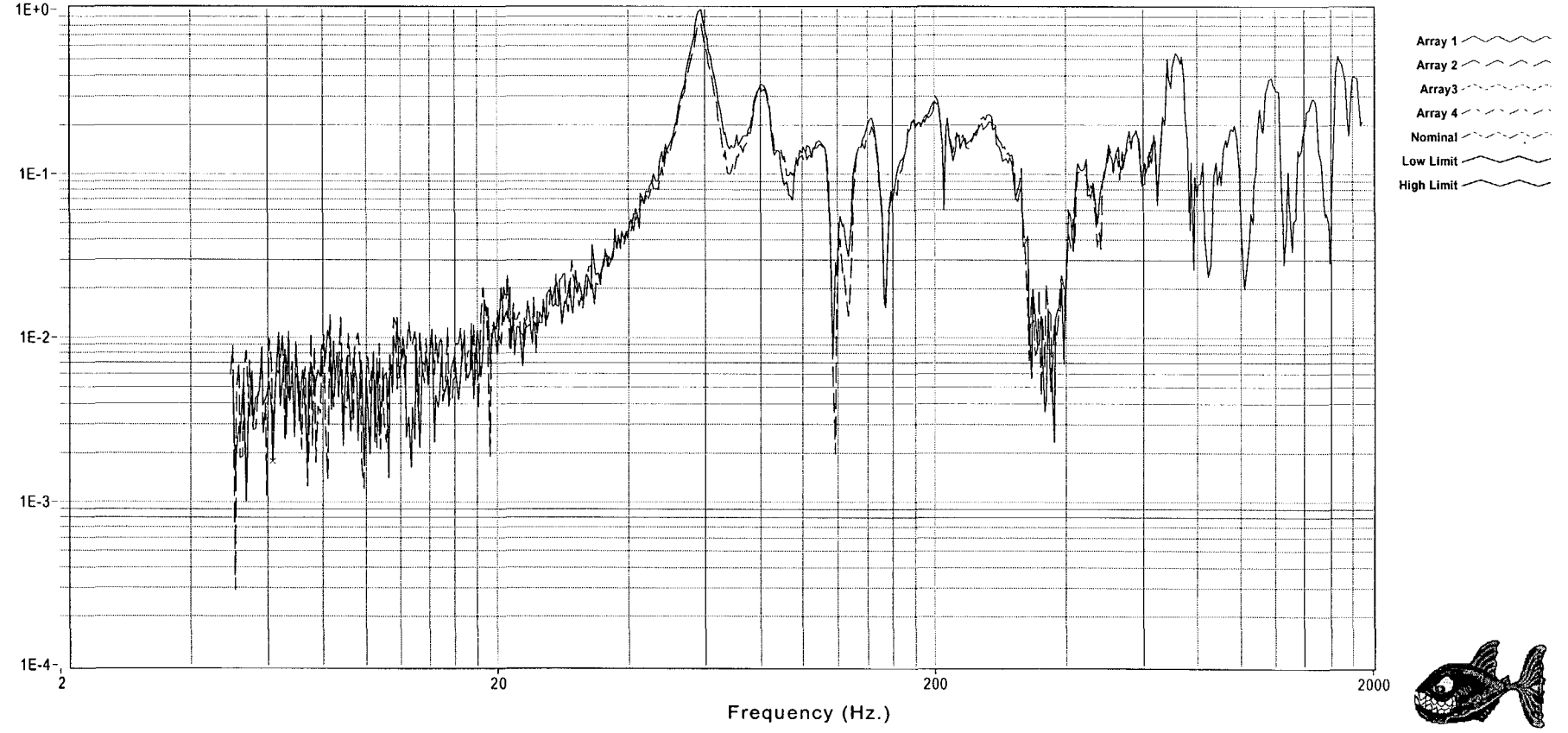
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A4Z: +Y PANEL MID-CMUChannel #53	A4Z: +Y PANEL MID-CMUChannel #53
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 5 SN=AB55	BOX 4 CH 5 SN=AB55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.230E+0 at 54.3 Hz.	Maximum = 1.150E+0 at 90.2 Hz.
Overall or RMS	N/A	N/A



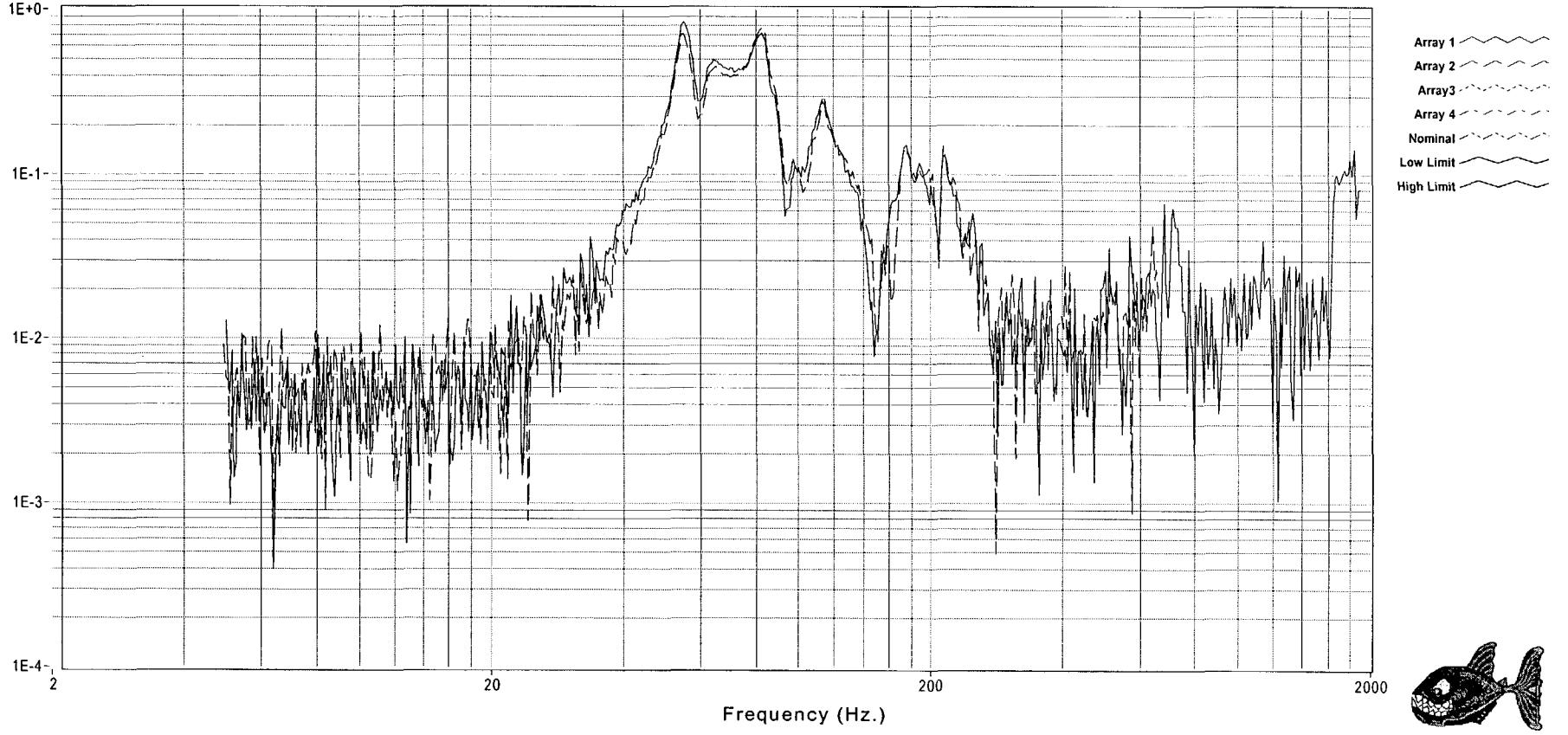
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A4RX: +Y PANEL MID-CMOchannel #54	A4RX: +Y PANEL MID-CMOchannel #54
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 6 SN=AF10	BOX 4 CH 6 SN=AF10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.942E-1 at 58.8 Hz.	Maximum = 8.362E-1 at 58.8 Hz.
Overall or RMS	N/A	N/A



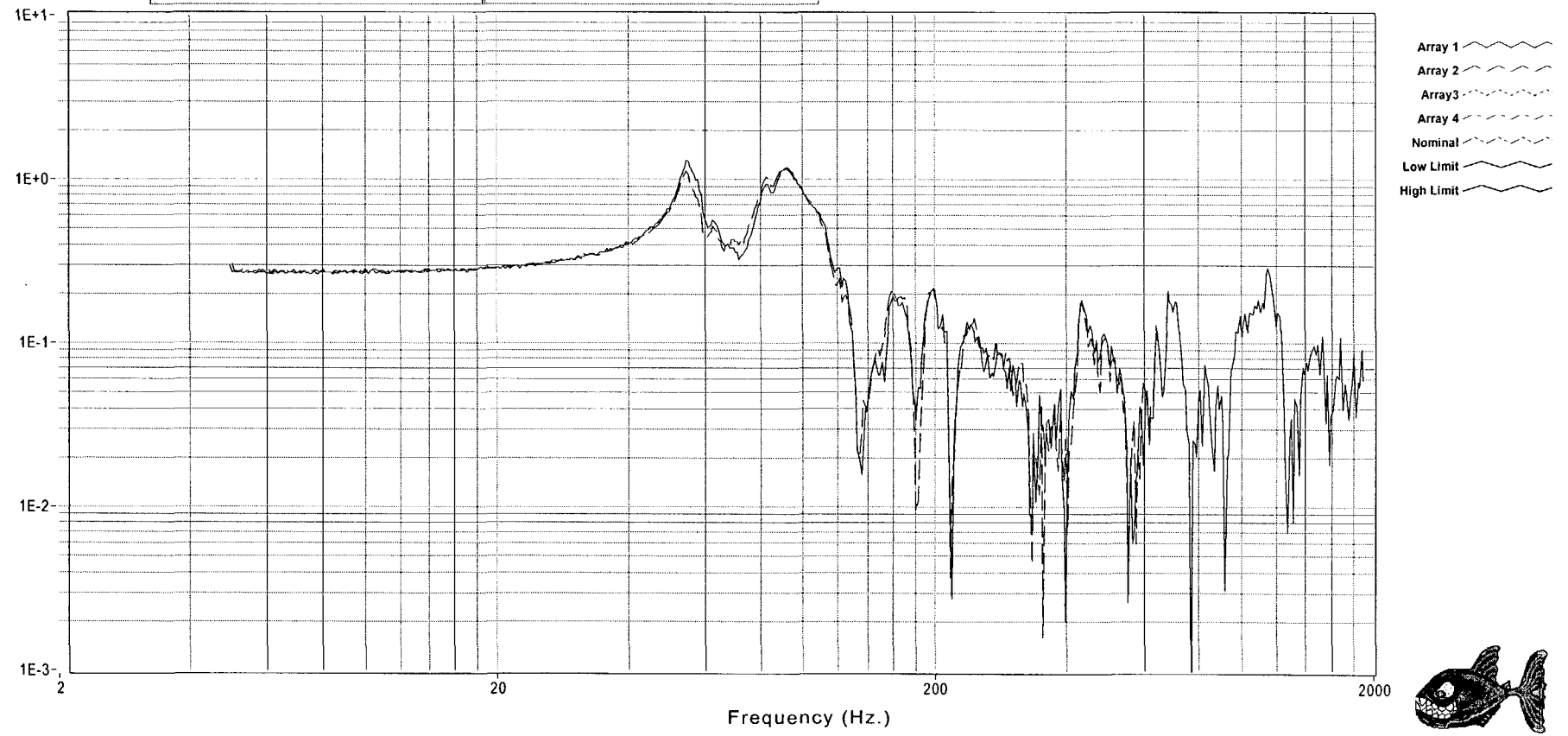
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	A4RY: +Y PANEL MID-CMCChannel #55	A4RY: +Y PANEL MID-CMCChannel #55
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 7 SN=AF56	BOX 4 CH 7 SN=AF56
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.460E-1 at 54.8 Hz.	Maximum = 7.766E-1 at 82.4 Hz.
Overall or RMS	N/A	N/A



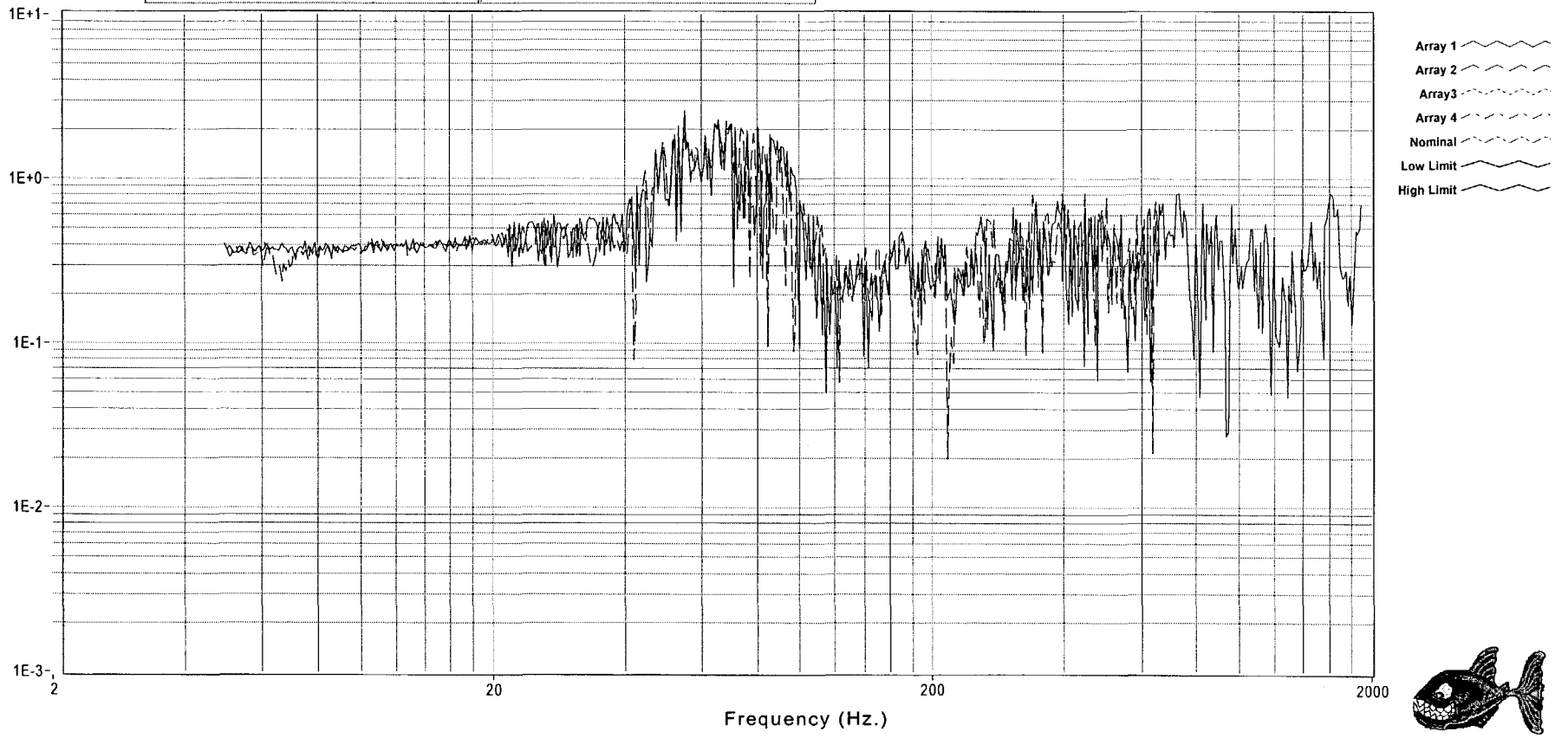
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062303	Array 2 sine_Sine062309
	A4RZ: +Y PANEL MID-CMOhannel #56	A4RZ: +Y PANEL MID-CMOhannel #56
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 8 SN=AD53	BOX 4 CH 8 SN=AD53
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.299E+0 at 54.3 Hz.	Maximum = 1.170E+0 at 90.2 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062303	sine_Sine062309
	F1: FLY AWAY Channel #57	F1: FLY AWAY Channel #57
Test Title	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Z-AXIS .25	HIRDLS VIBRATION TEST: Z-AXIS .25
Test File Number	062303	062309
Test Date/Time	23-Jun-2002 4:56:56	23-Jun-2002 11:52:57
Channel Description	BOX 4 CH 9 SN=BF27	BOX 4 CH 9 SN=BF27
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.620E+0 at 54.8 Hz.	Maximum = 2.238E+0 at 68.2 Hz.
Overall or RMS	N/A	N/A



LOCKHEED MARTIN MISSILES & SPACE

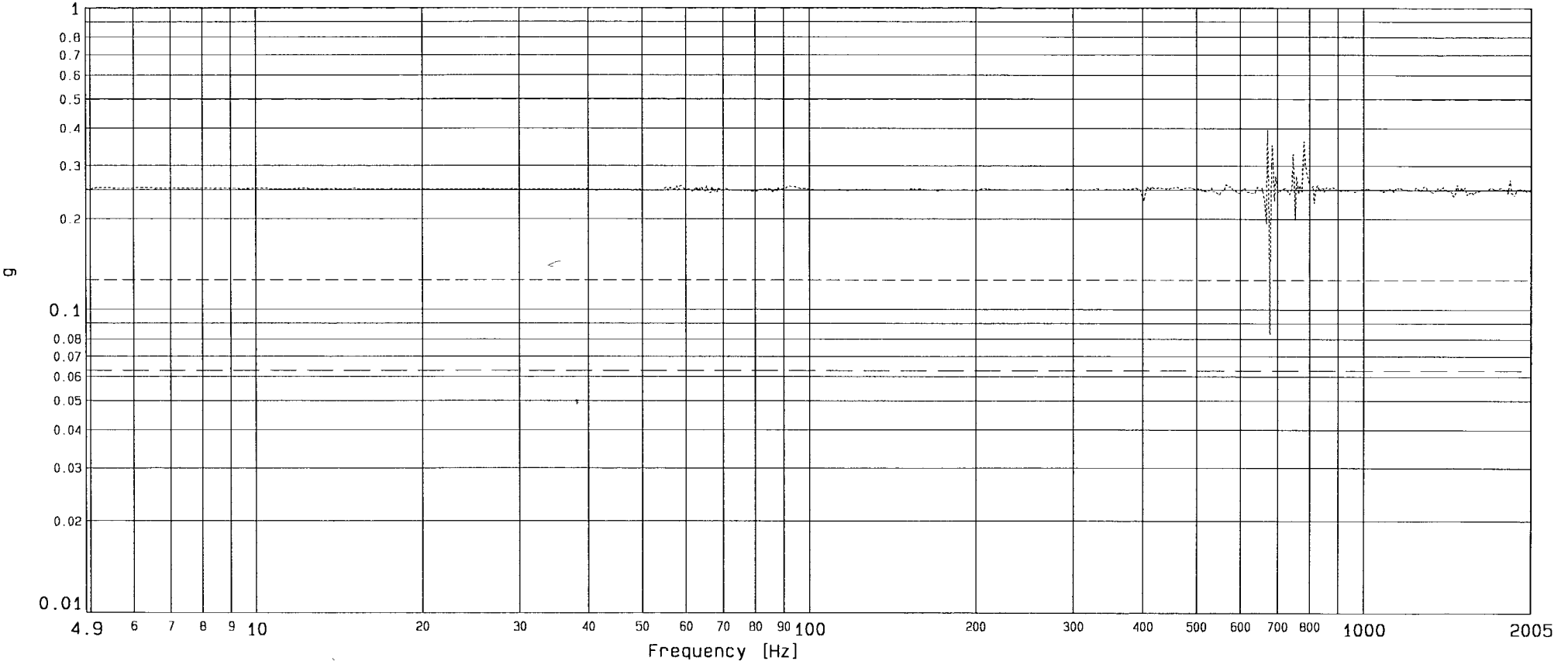
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

LOCKHEED MARTIN MISSILES & SPACE

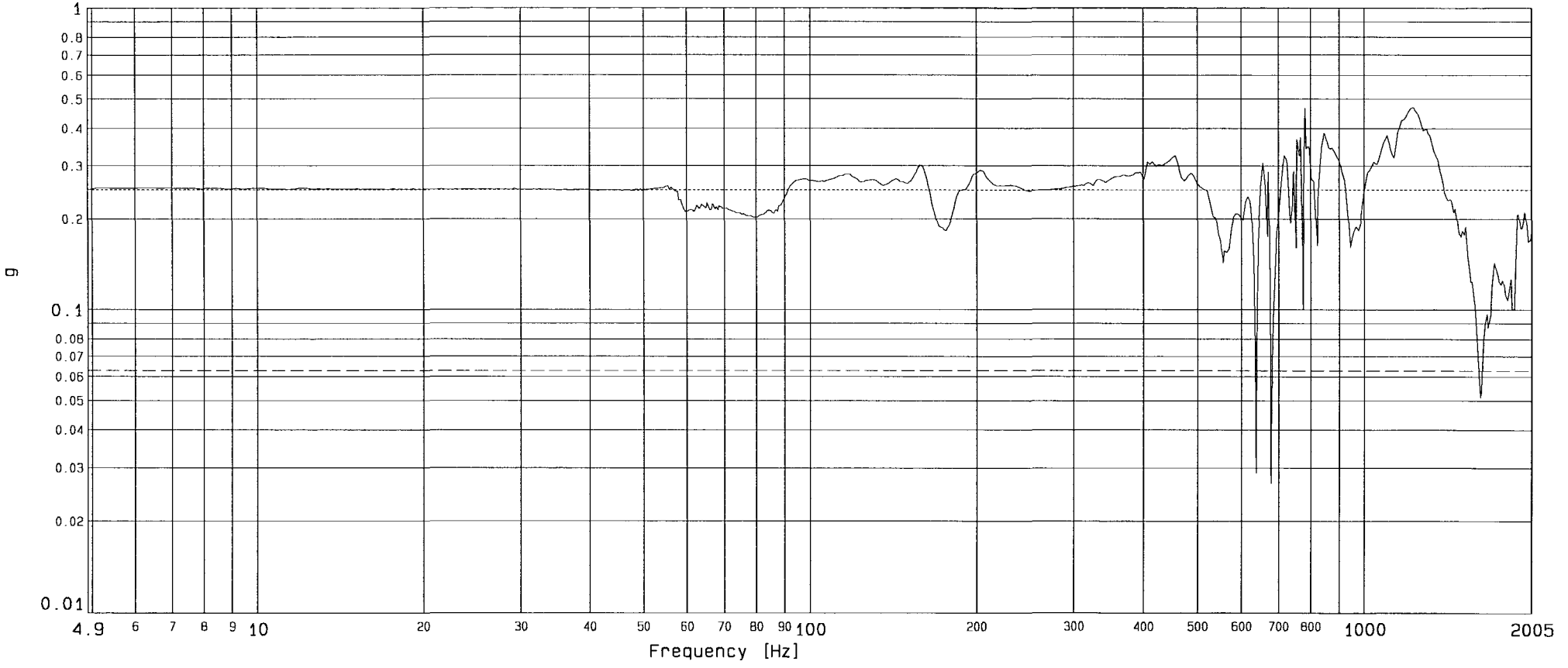
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 468.85e-03 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

LOCKHEED MARTIN MISSILES & SPACE

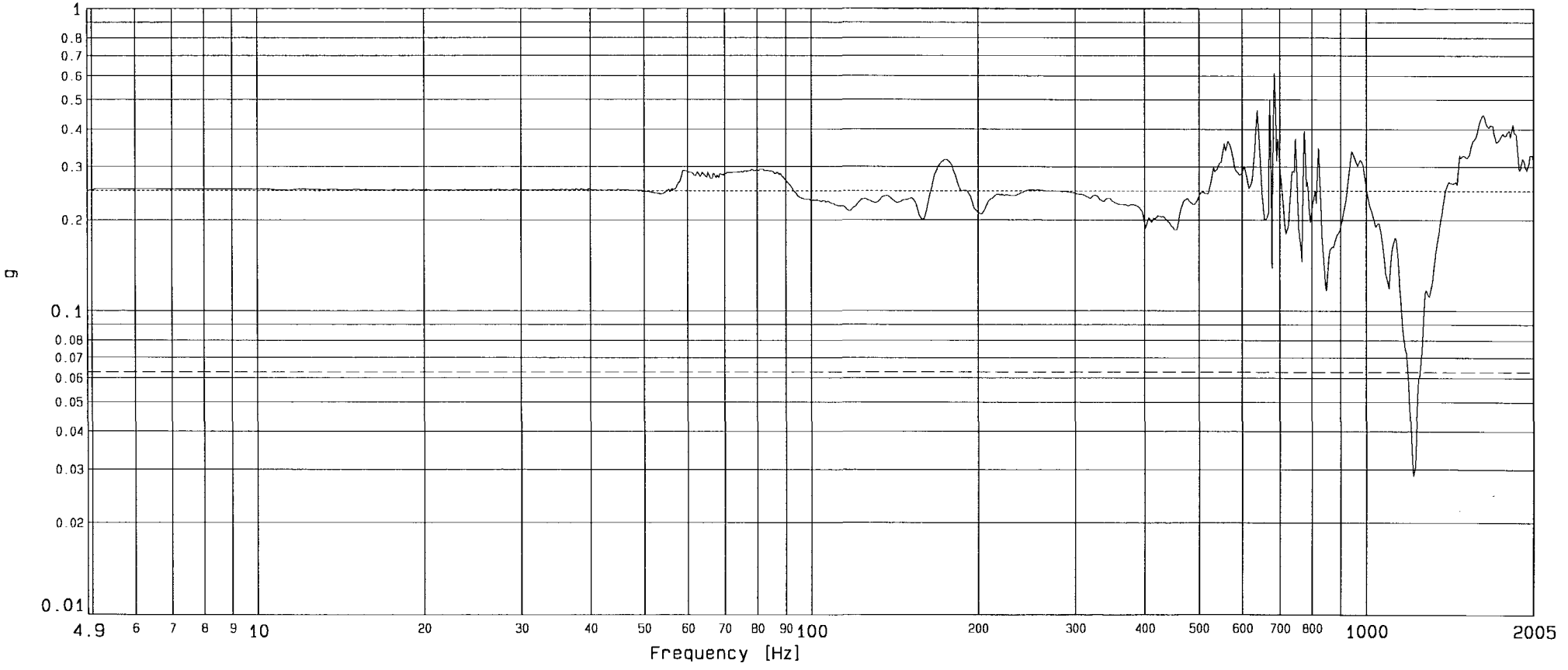
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 609.90e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

LOCKHEED MARTIN MISSILES & SPACE

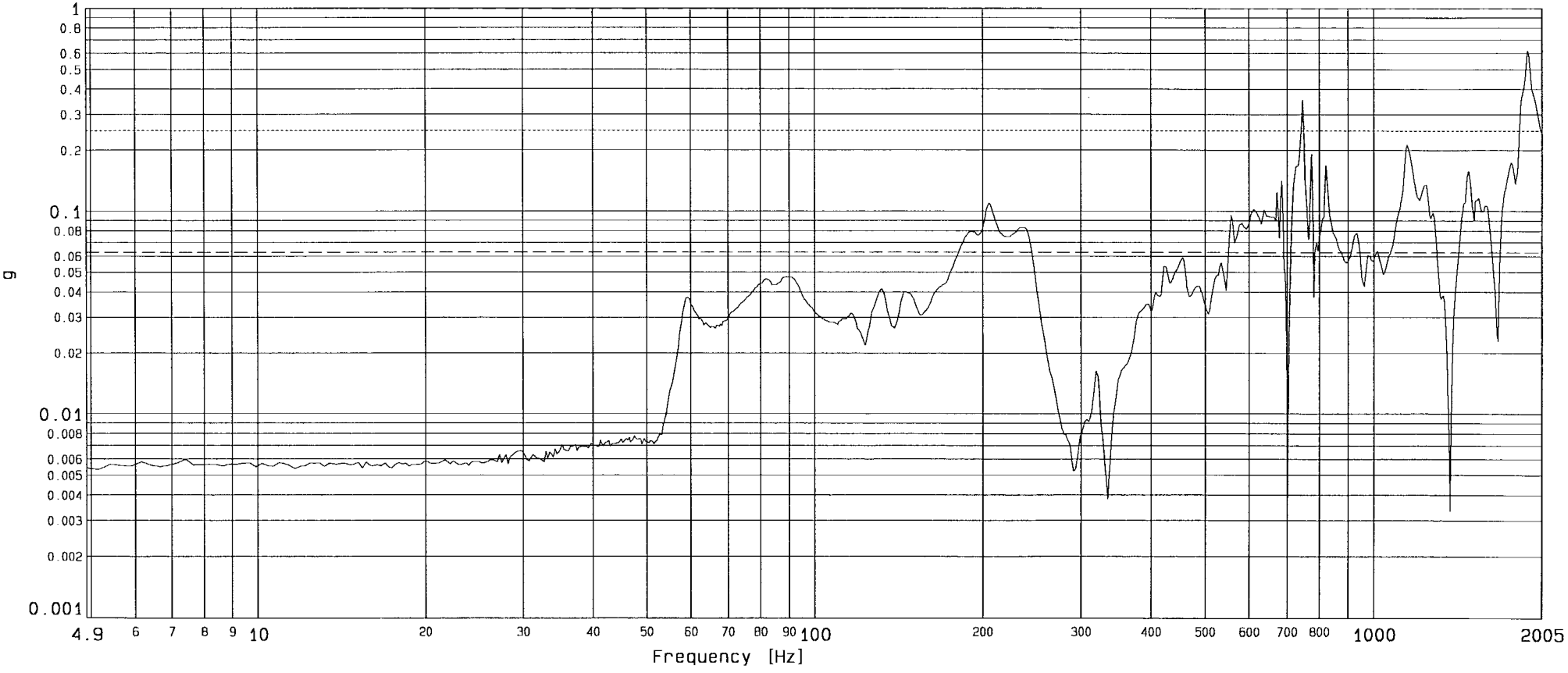
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 620.26e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

LOCKHEED MARTIN MISSILES & SPACE

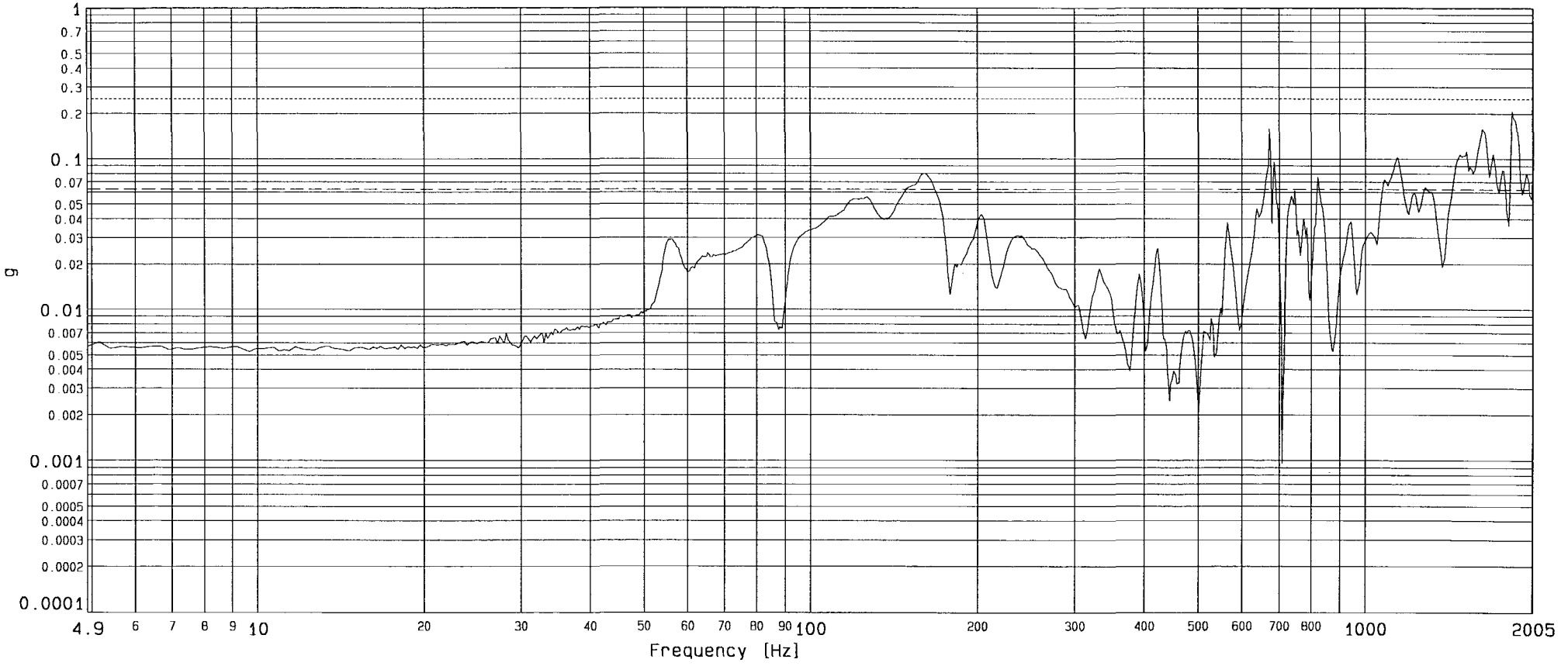
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 206.88e-03 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

LOCKHEED MARTIN MISSILES & SPACE

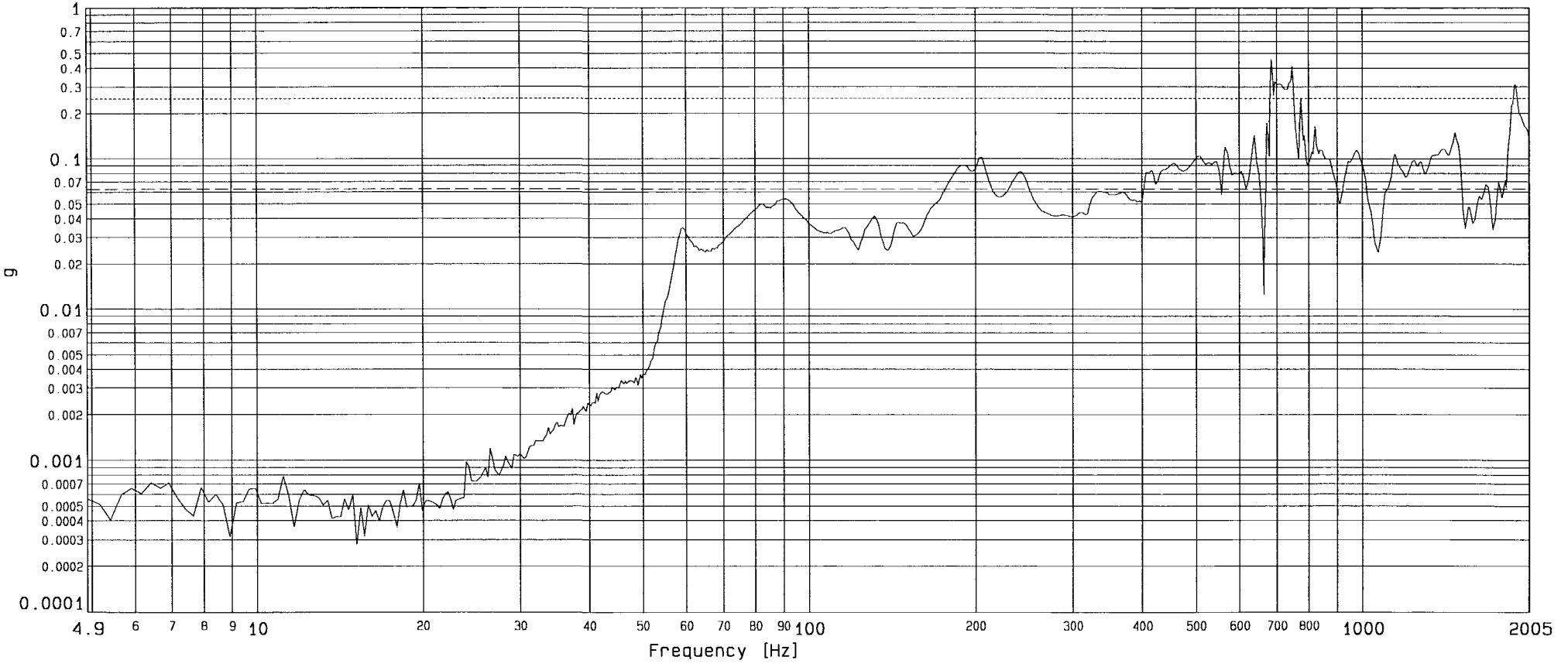
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 457.26e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIADLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

LOCKHEED MARTIN MISSILES & SPACE

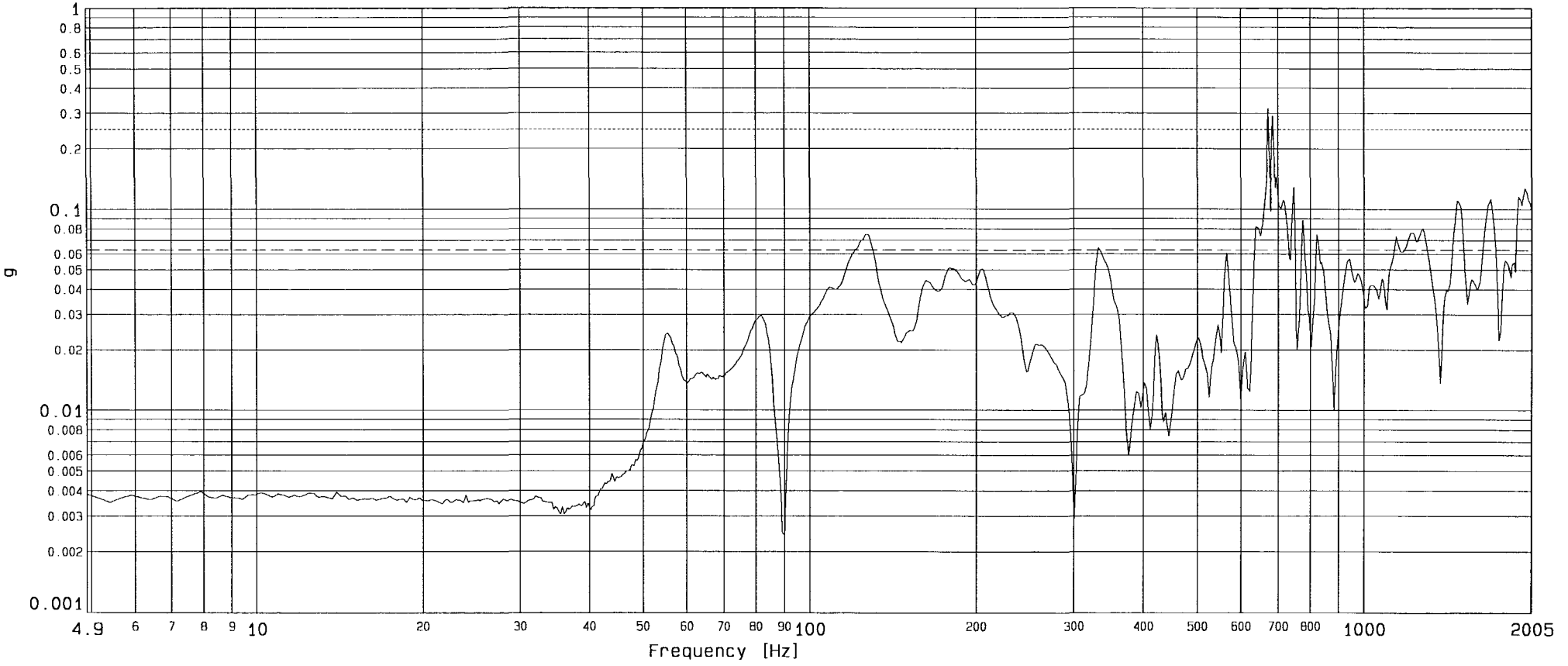
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 317.73e-03 g

Trace identification :
S_CONTROL_Y
Reference
Upper Ab
Lower Ab



HIRDLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

LOCKHEED MARTIN MISSILES & SPACE

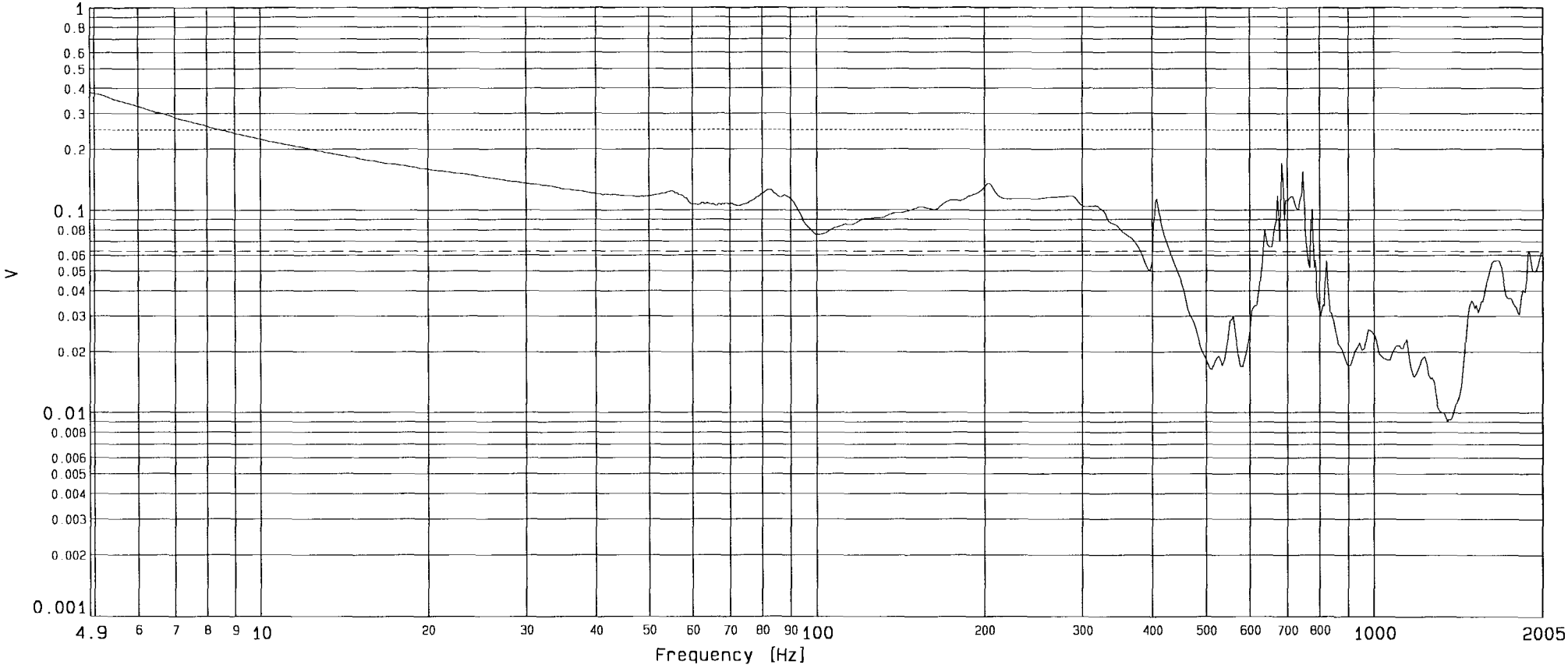
Project : hirdls
Test : Z_Signature
Run : 26 062311

Date : 23-06-02
Time : 14:02:36
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 381.42e-03 V

Trace identification :
- Drive
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Post Sig

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062311

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

North_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

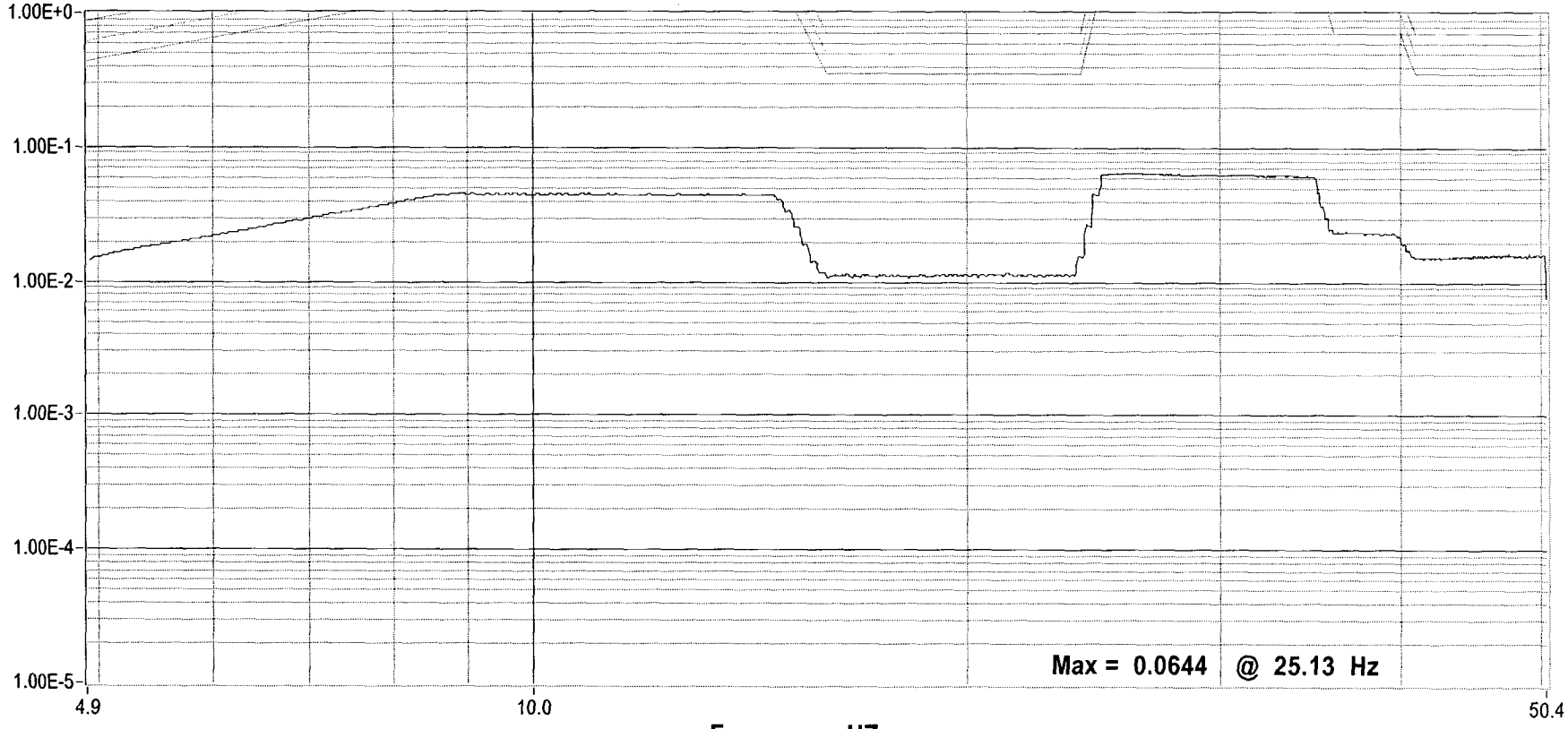
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 1 **Node Number:** 0001

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:50 PM

North_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

North_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

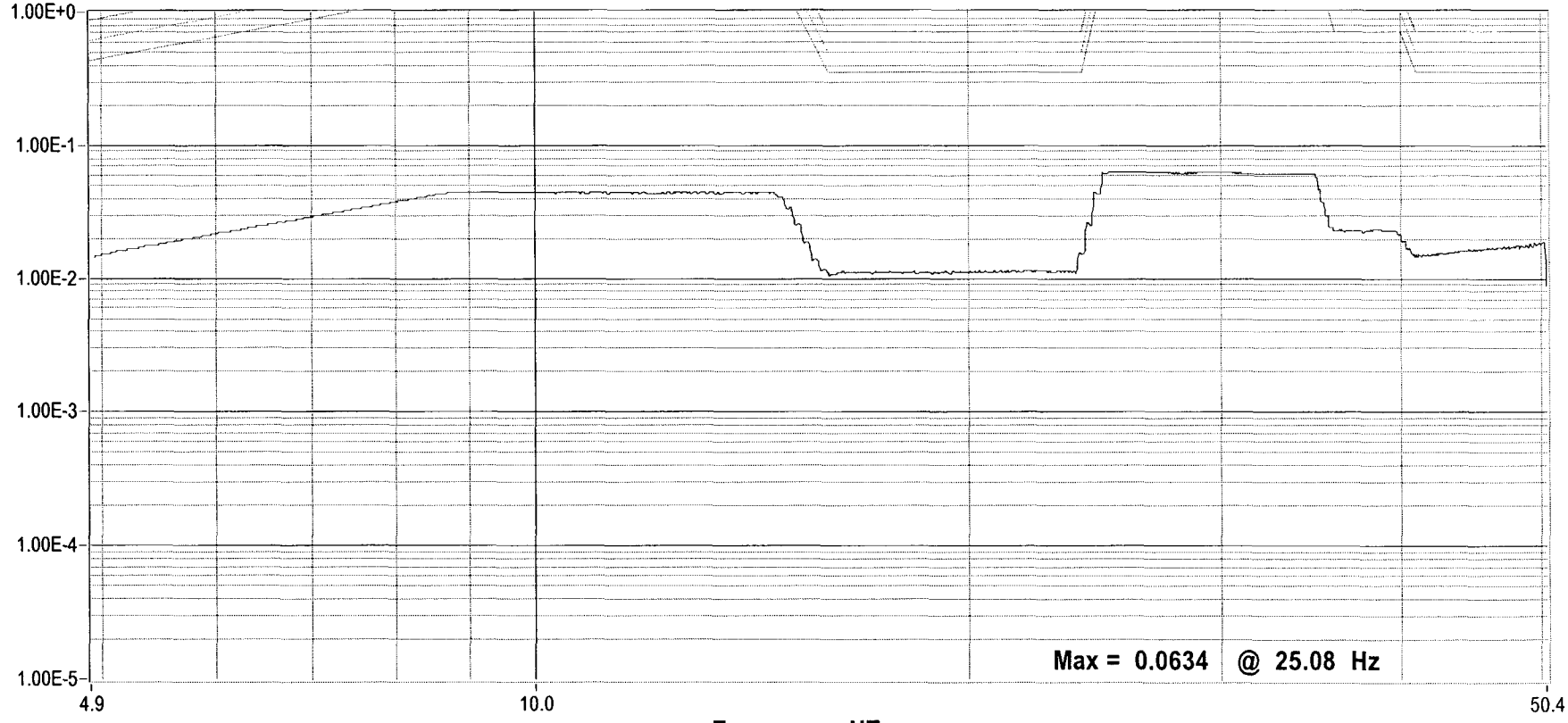
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 2 **Node Number:** 0002

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:50 PM

North_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

North_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

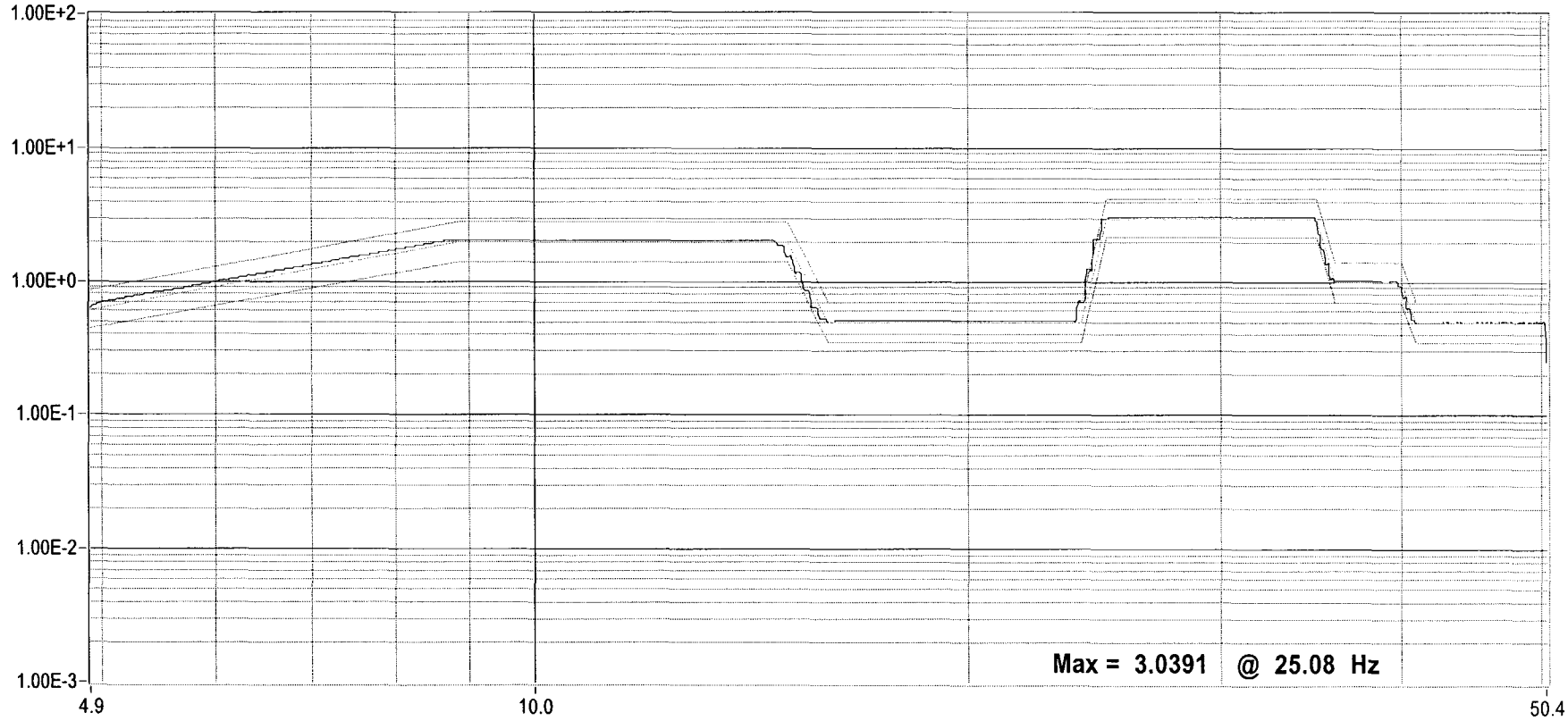
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 3 **Node Number:** 0003

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:50 PM

North_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

South_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

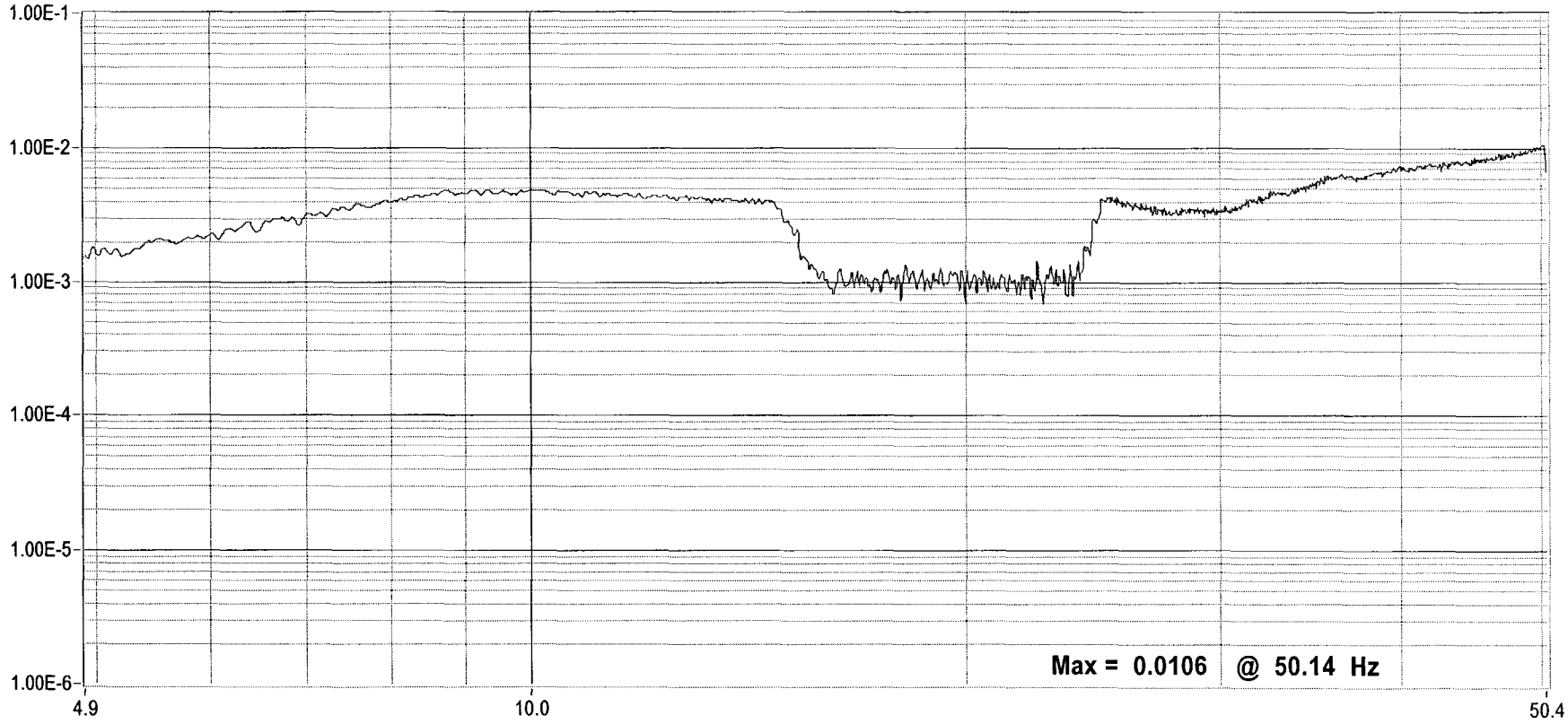
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 4 **Node Number:** 0004

Channel Description: I

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

South_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

South_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

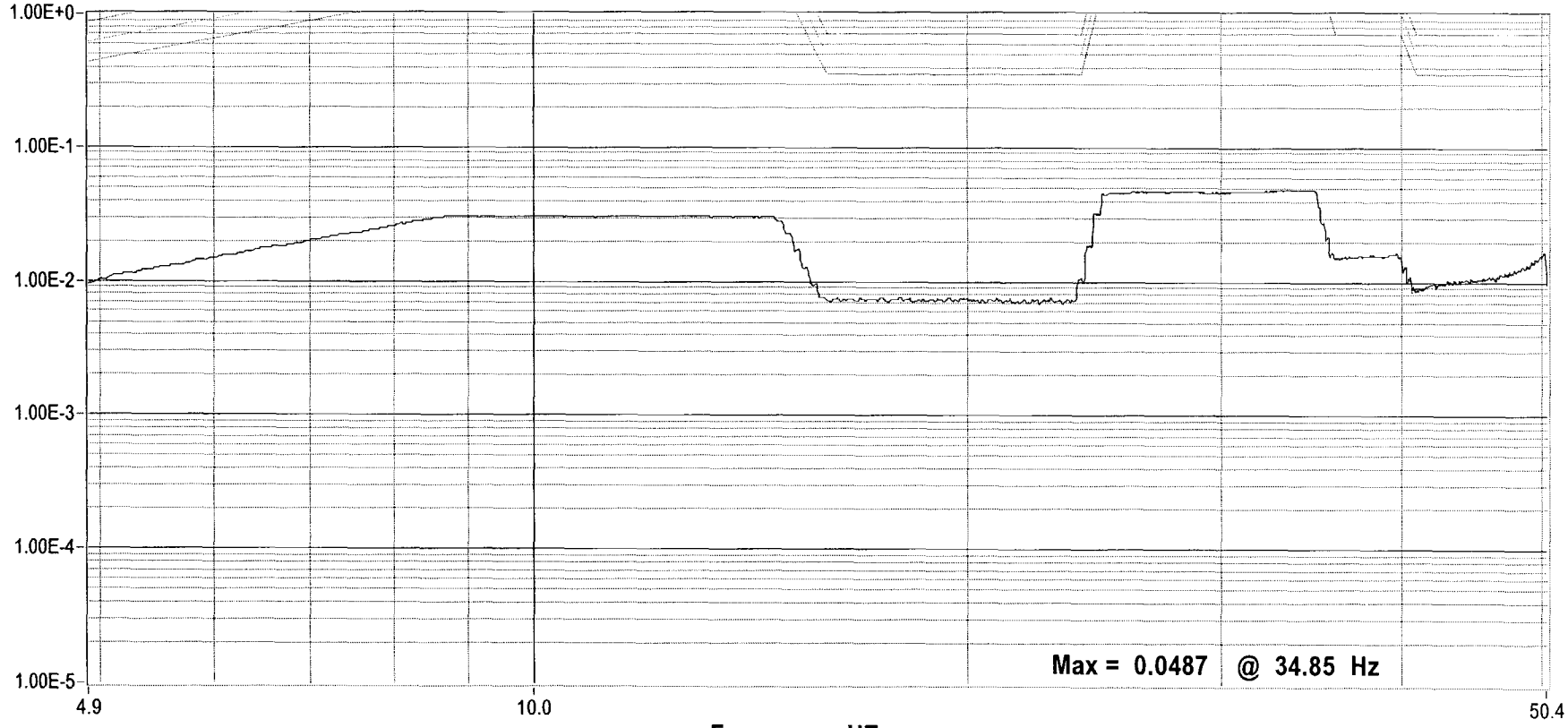
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 5 **Node Number:** 0005

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

South_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

South_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

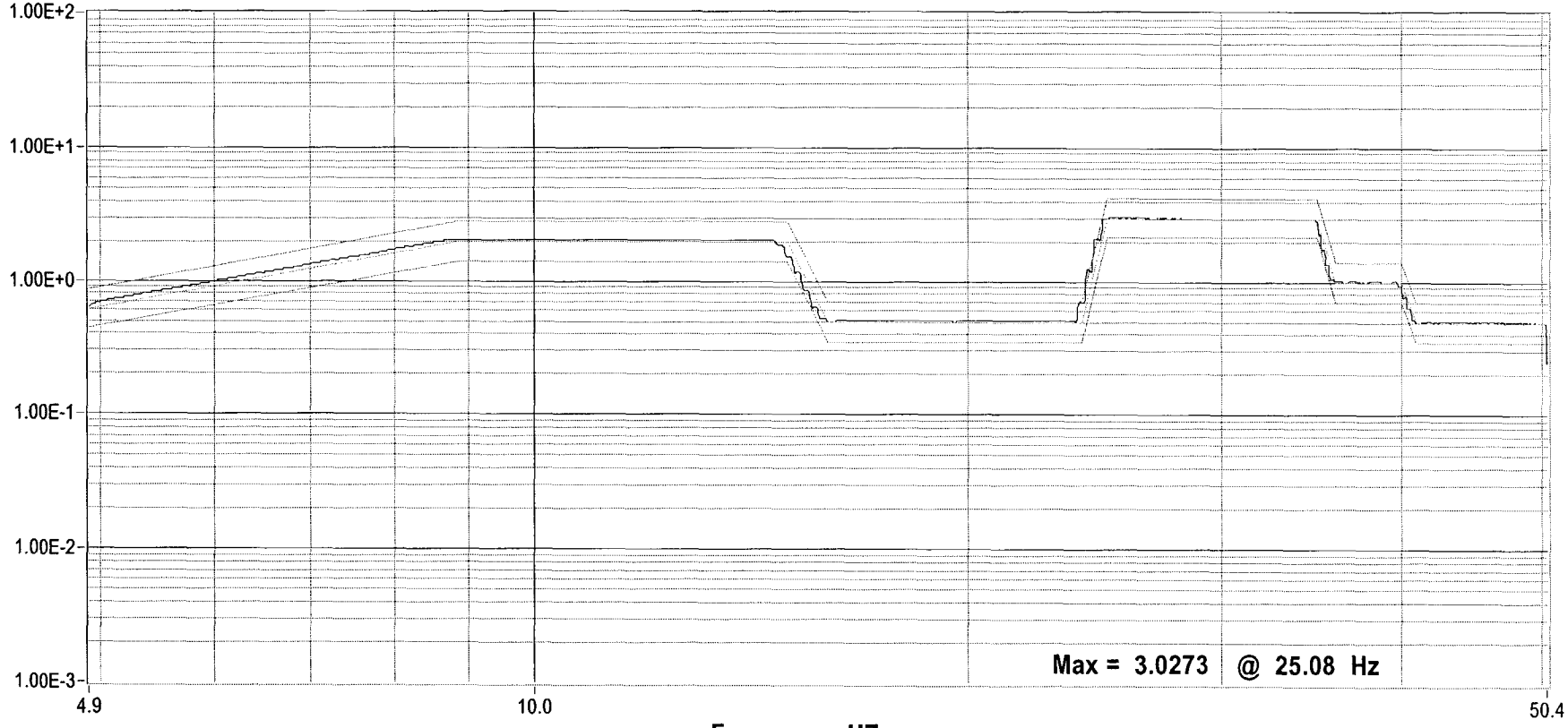
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 6 **Node Number:** 0006

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

South_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A5 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

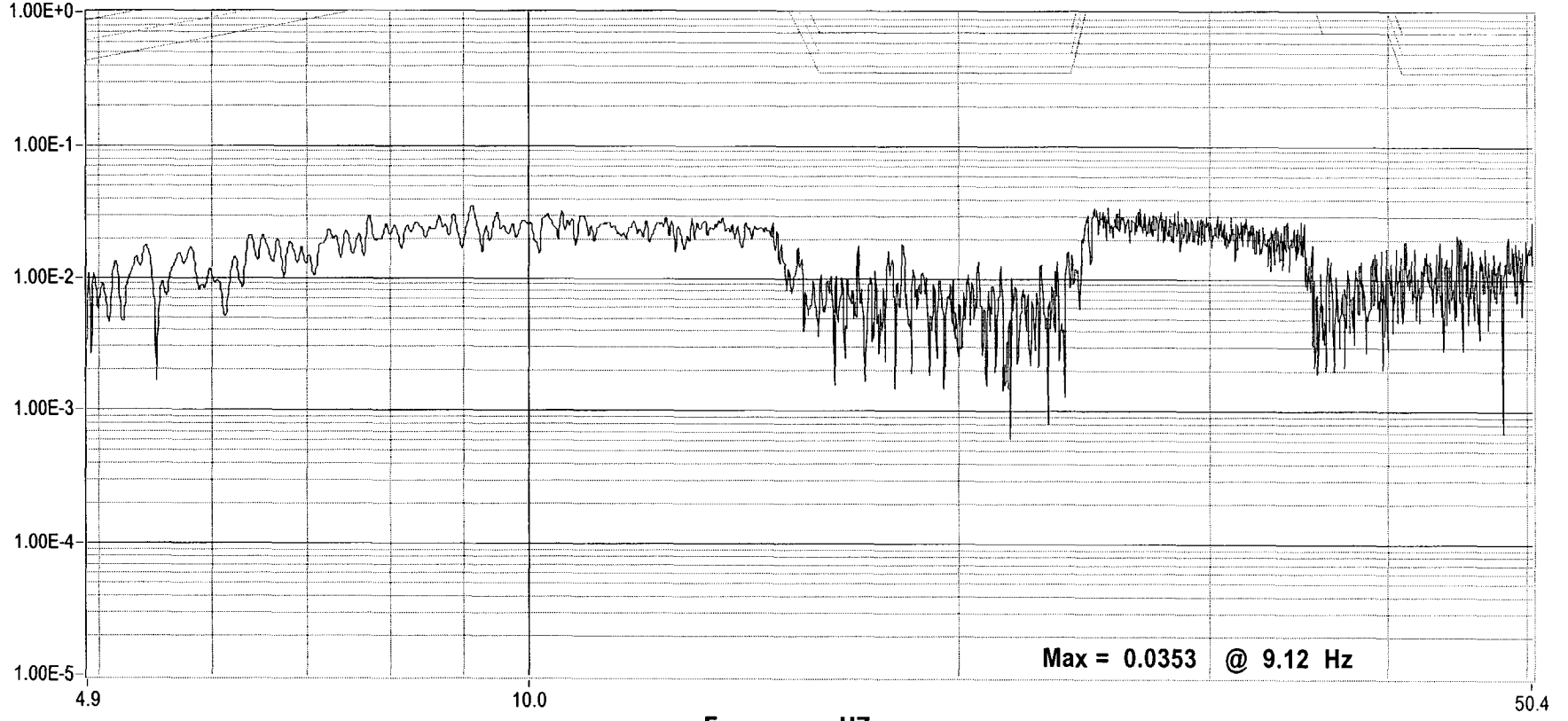
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 7 **Node Number:** 0007

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

A5 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A5 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

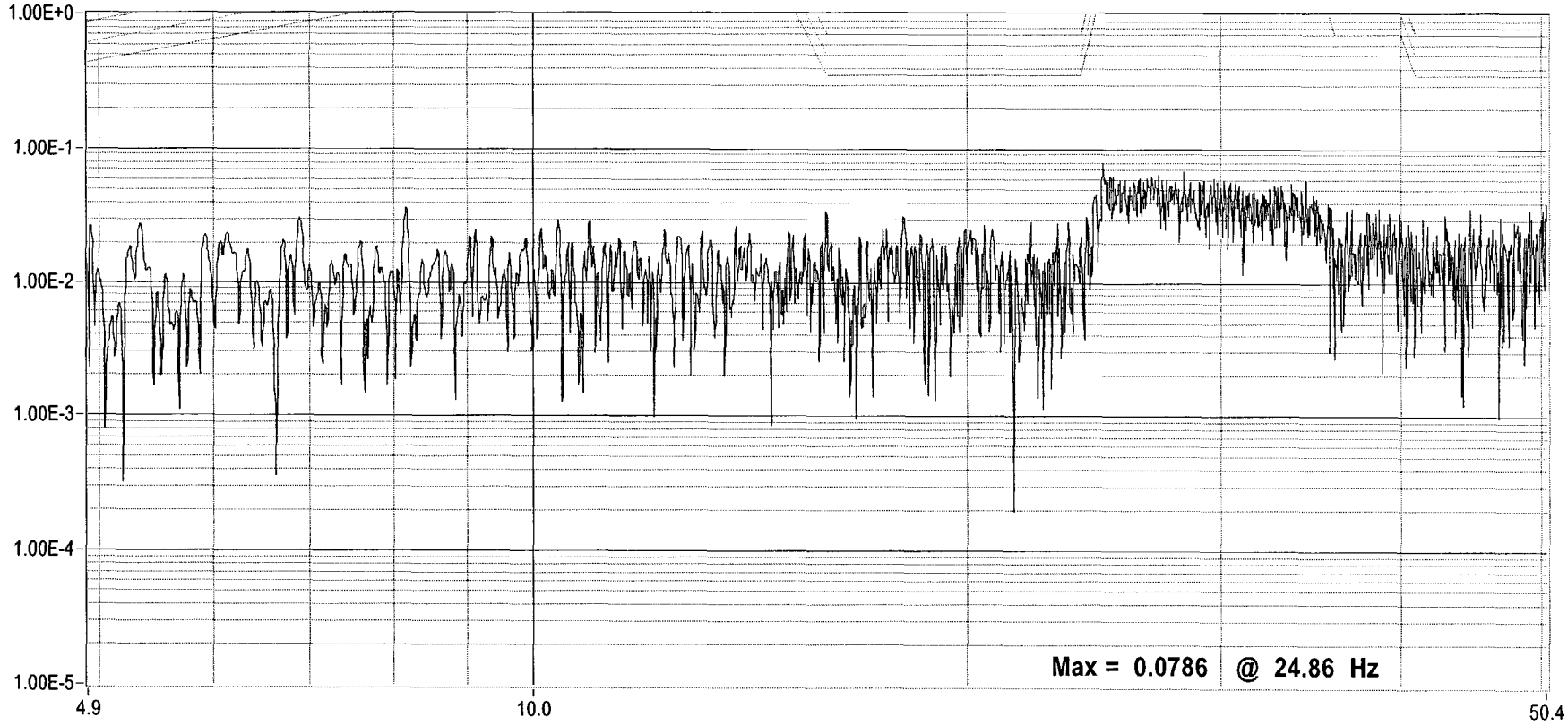
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 8 **Node Number:** 0008

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

A5 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A5 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

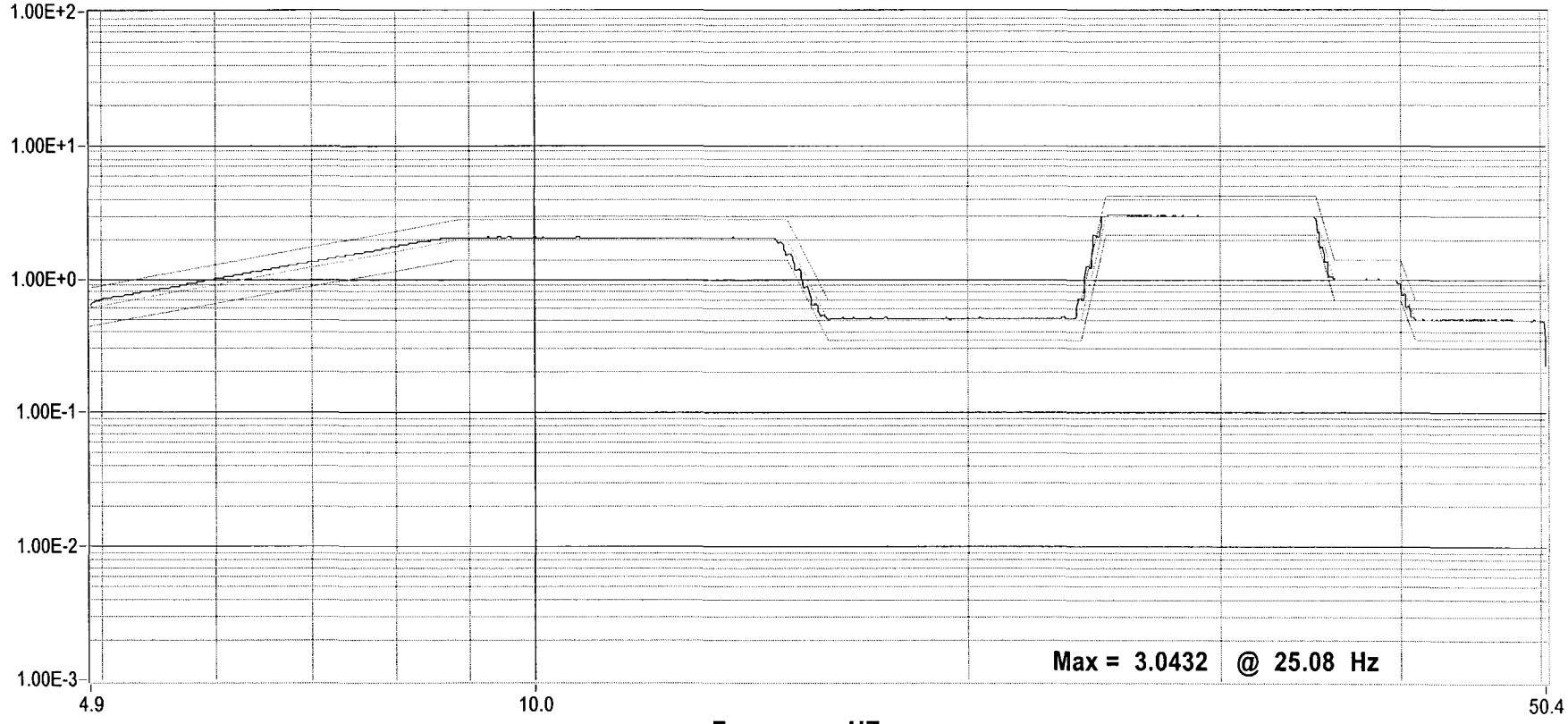
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 9 **Node Number:** 0009

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

A5 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A6 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

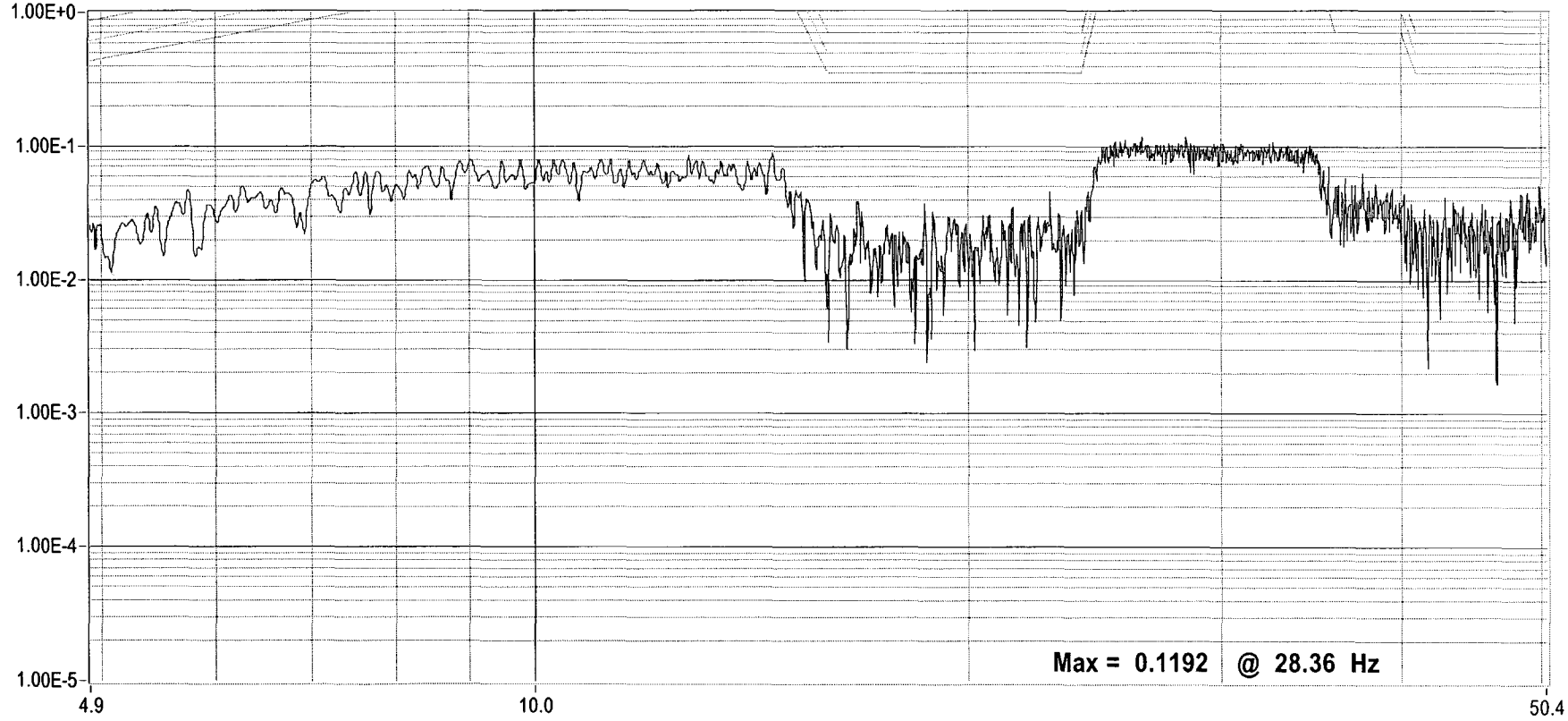
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 10 **Node Number:** 0010

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

A6 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A6 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

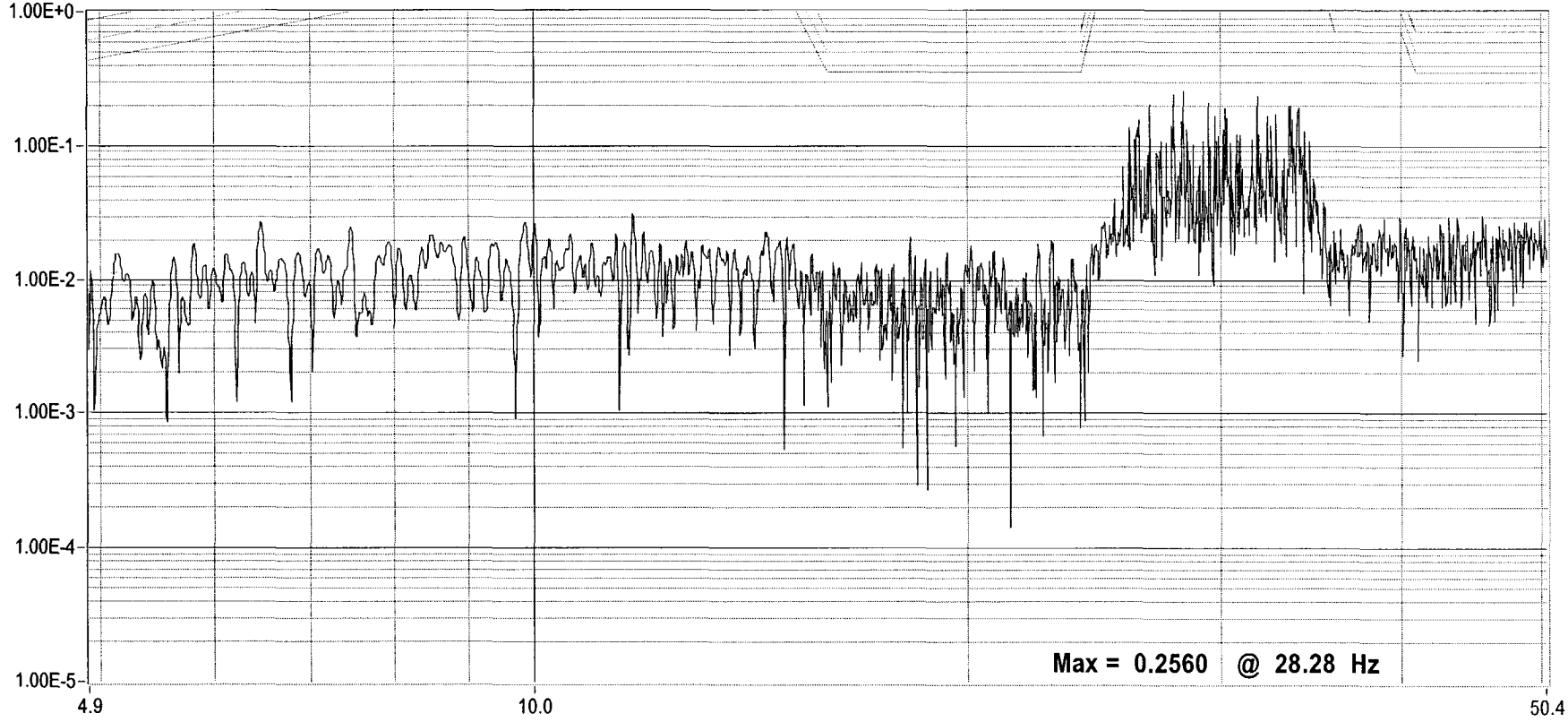
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 11 **Node Number:** 0011

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

A6 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A6 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

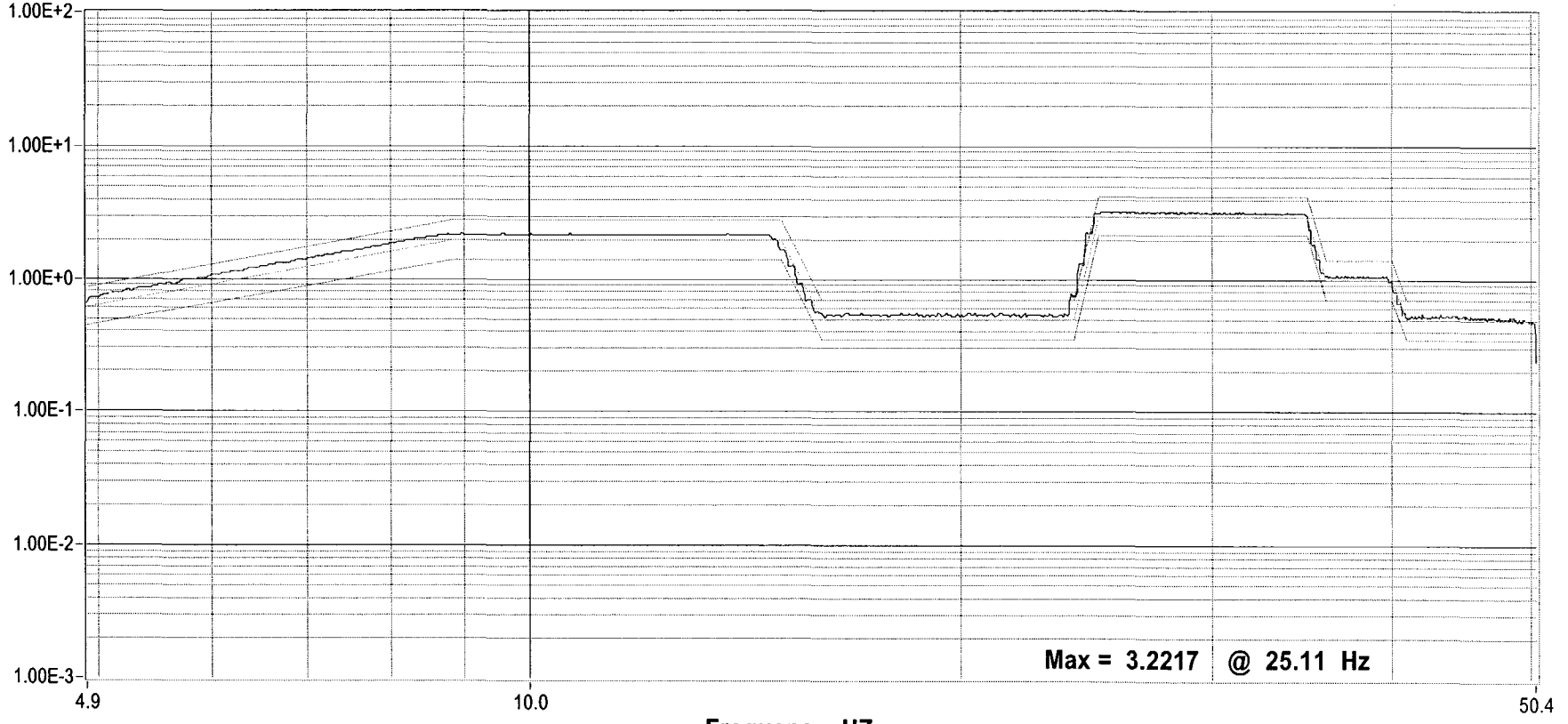
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 12 **Node Number:** 0012

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

A6 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A7 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

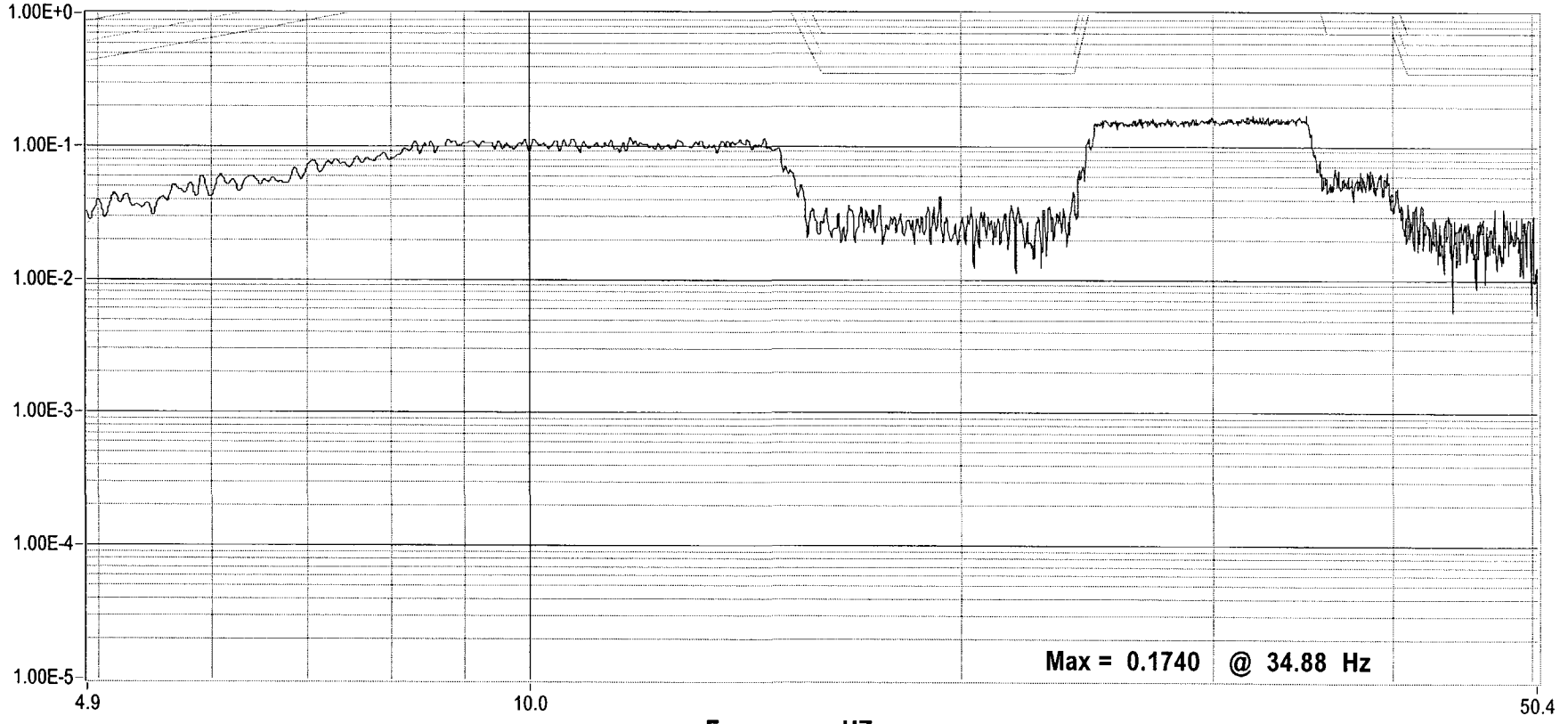
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 17 **Node Number:** 0017

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:51 PM

A7 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A7 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

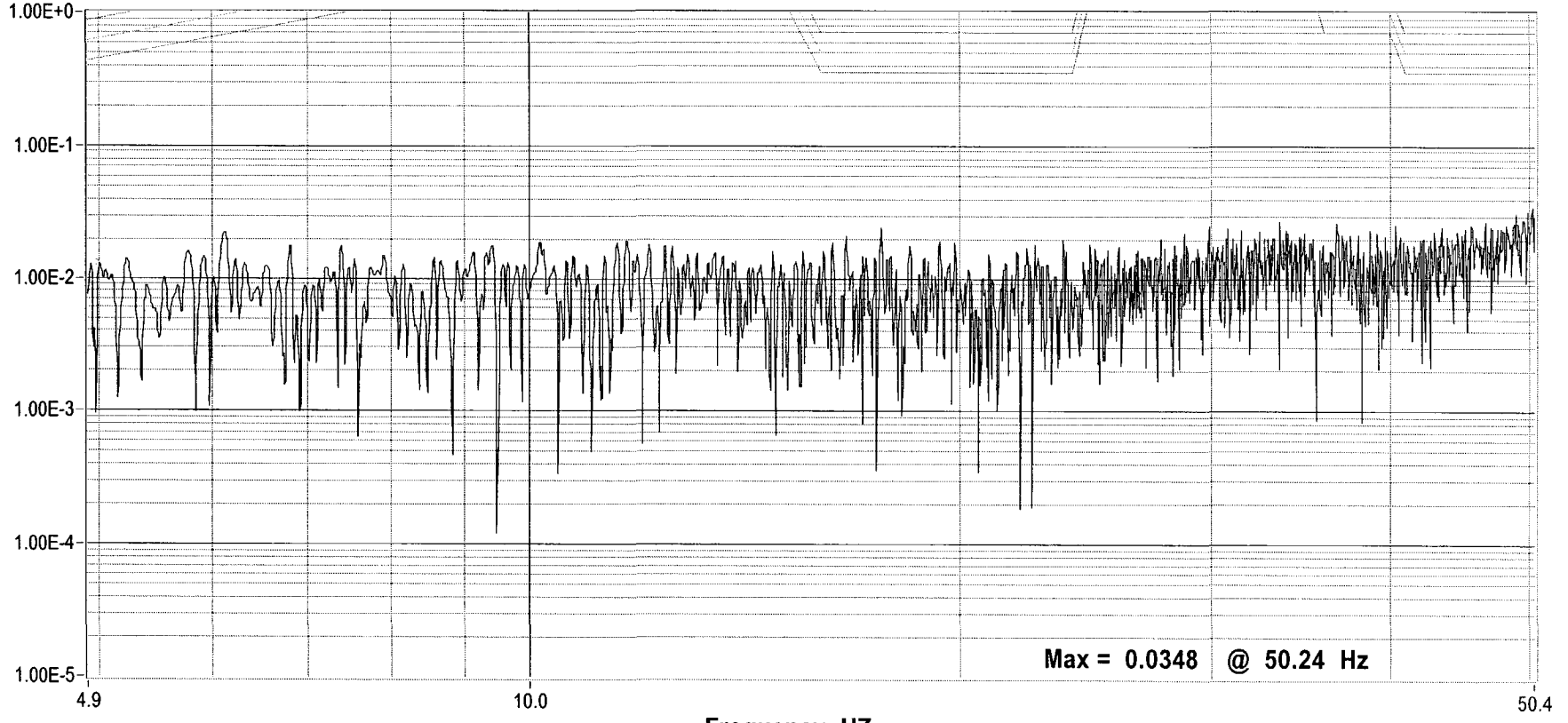
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 18 **Node Number:** 0018

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A7 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A7 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

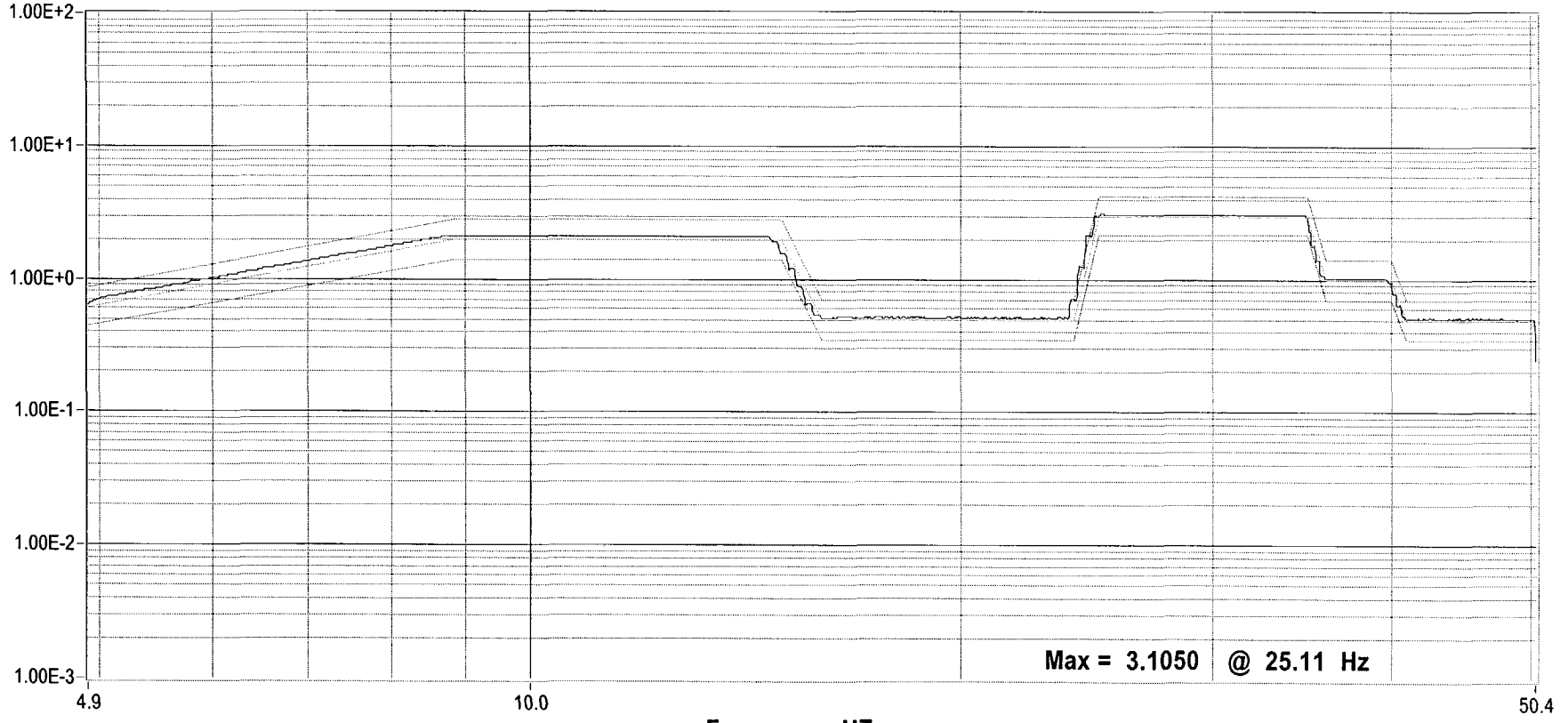
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 19 **Node Number:** 0019

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A7 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A8 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

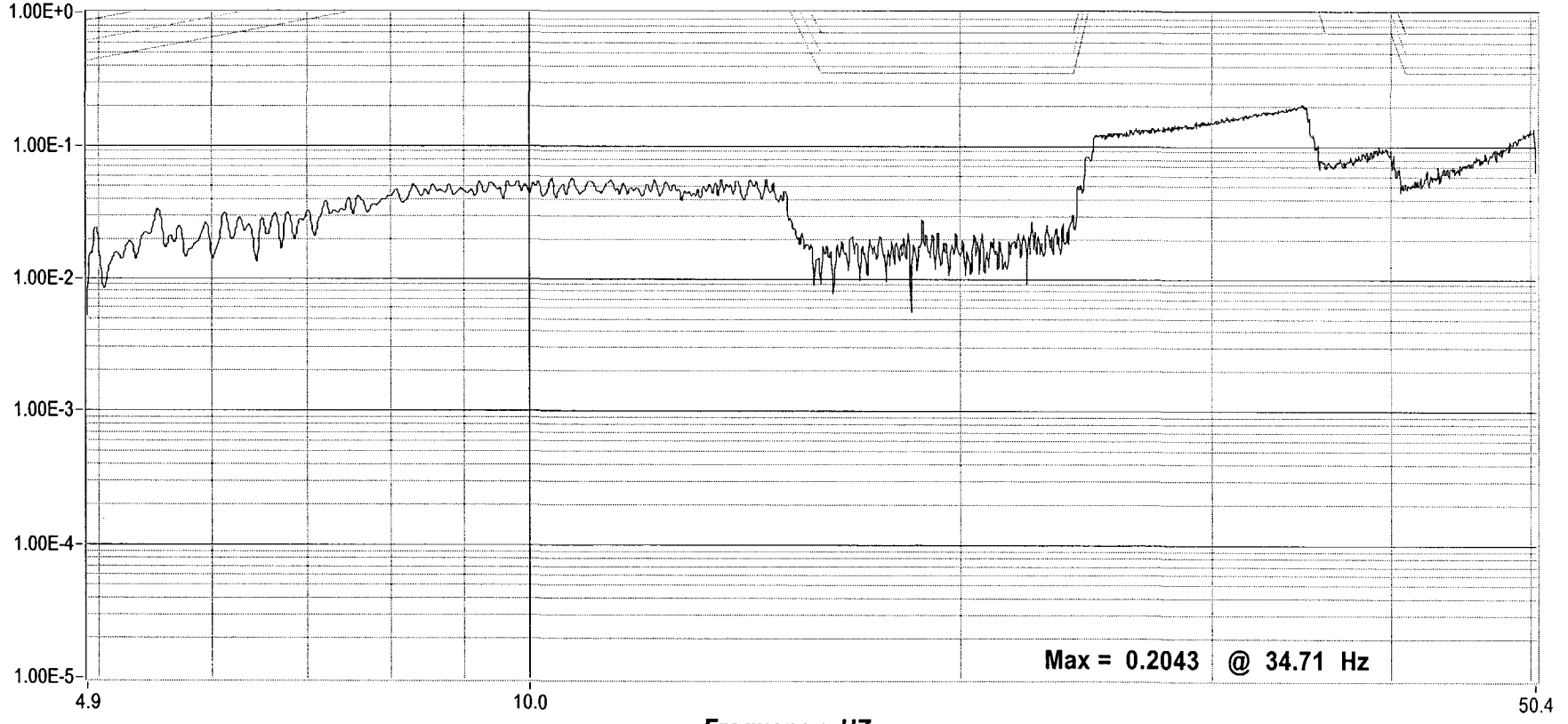
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 20 **Node Number:** 0020

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A8 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A8 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

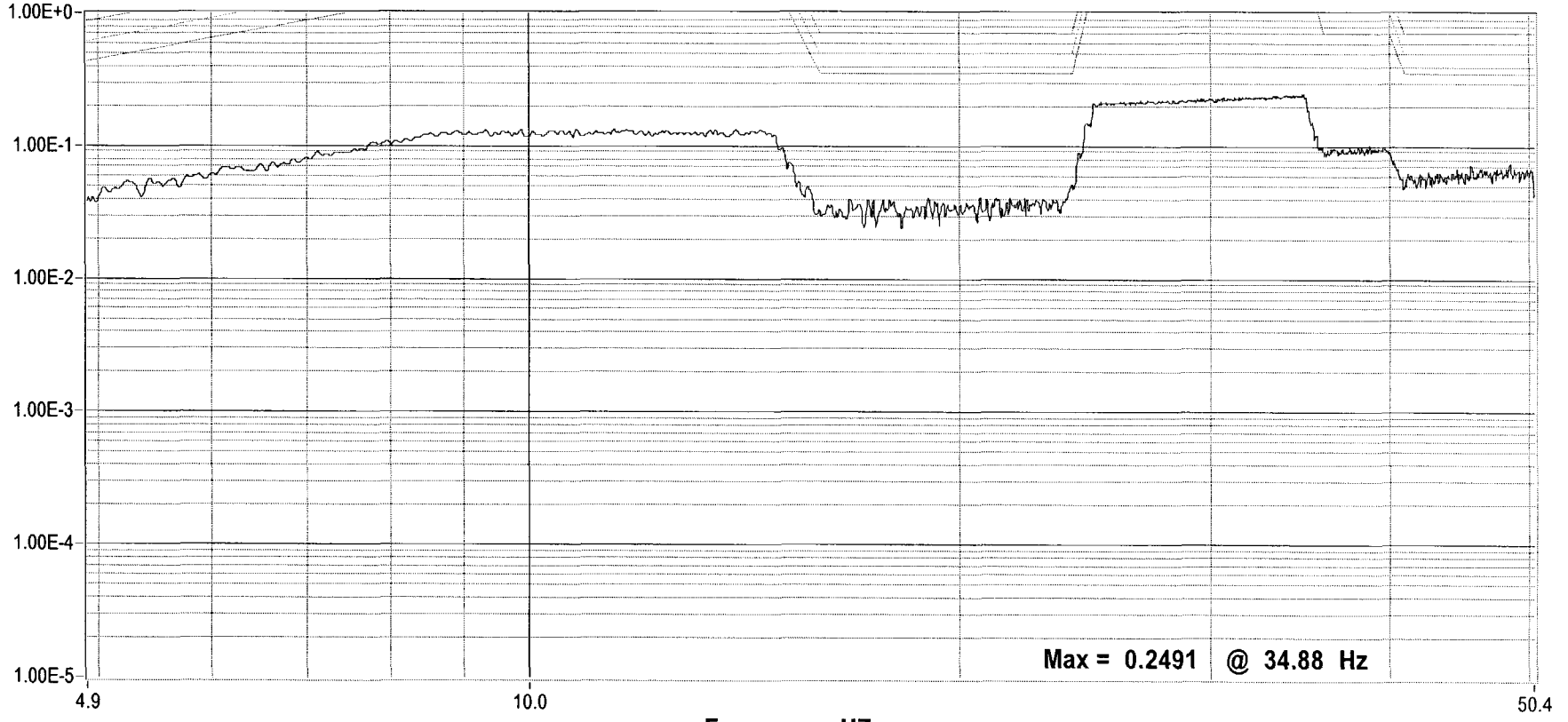
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 21 **Node Number:** 0021

Channel Description: 0.01034

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A8 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A8 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

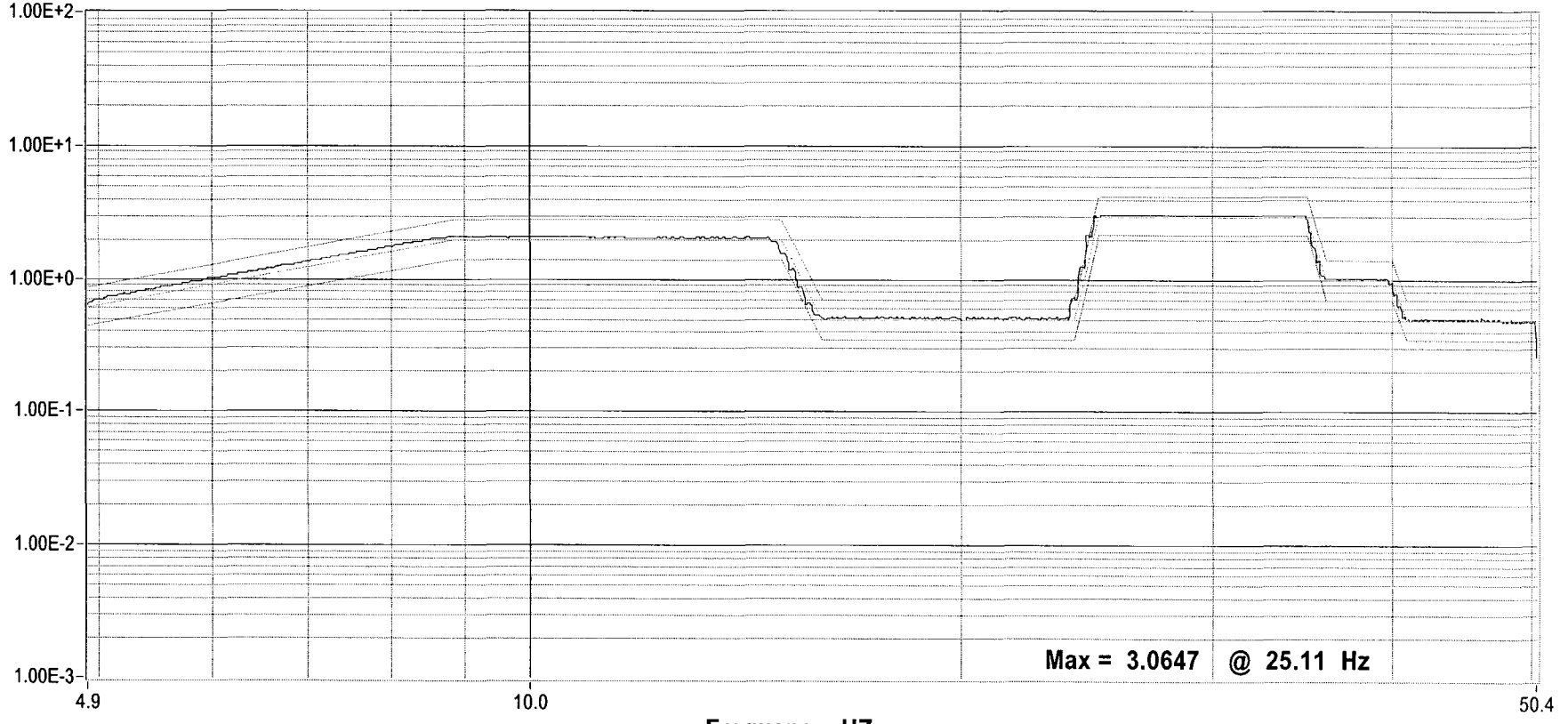
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 22 **Node Number:** 0022

Channel Description: 0.01029

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A8 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A9 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

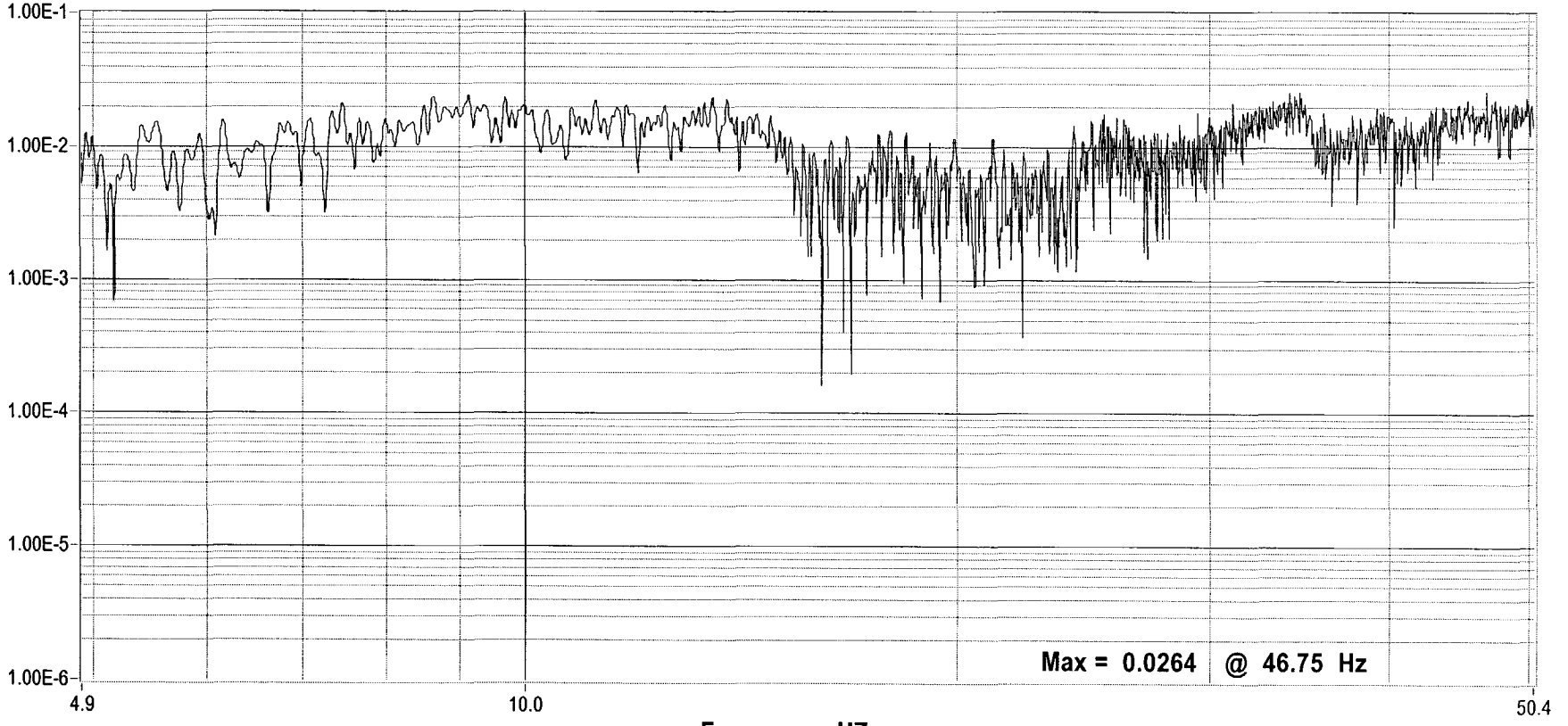
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 23 **Node Number:** 0023

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A9 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A9 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

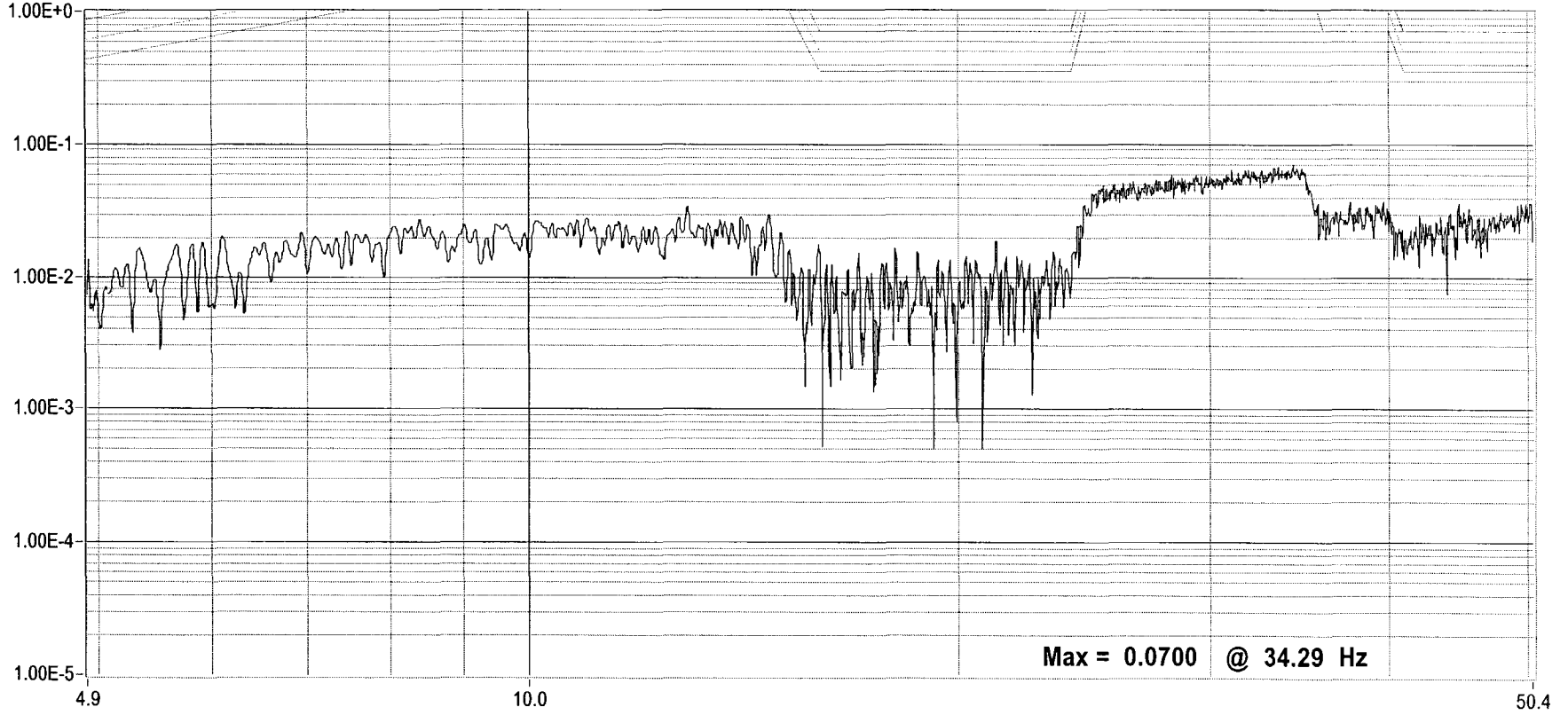
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 24 **Node Number:** 0024

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A9 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A9 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

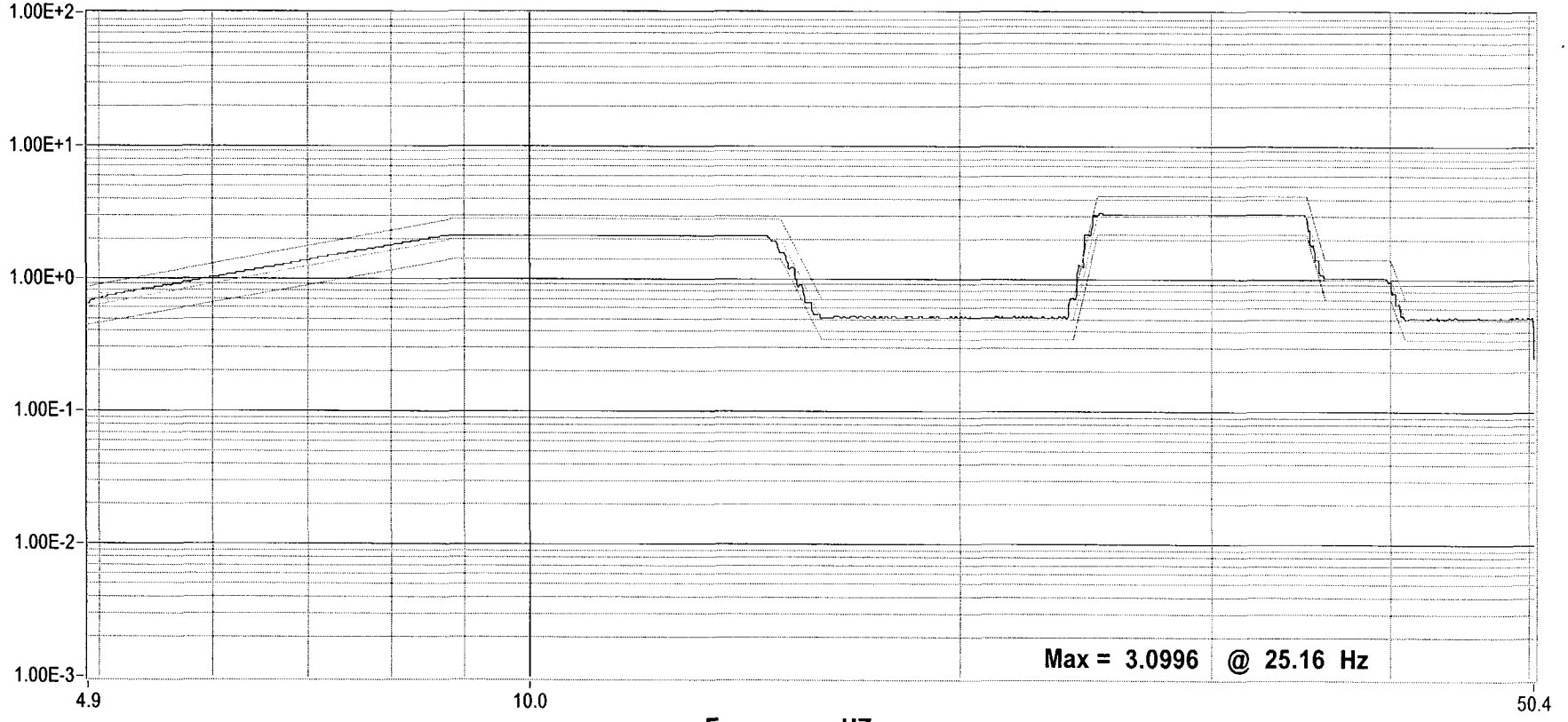
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 25 **Node Number:** 0025

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A9 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A10 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

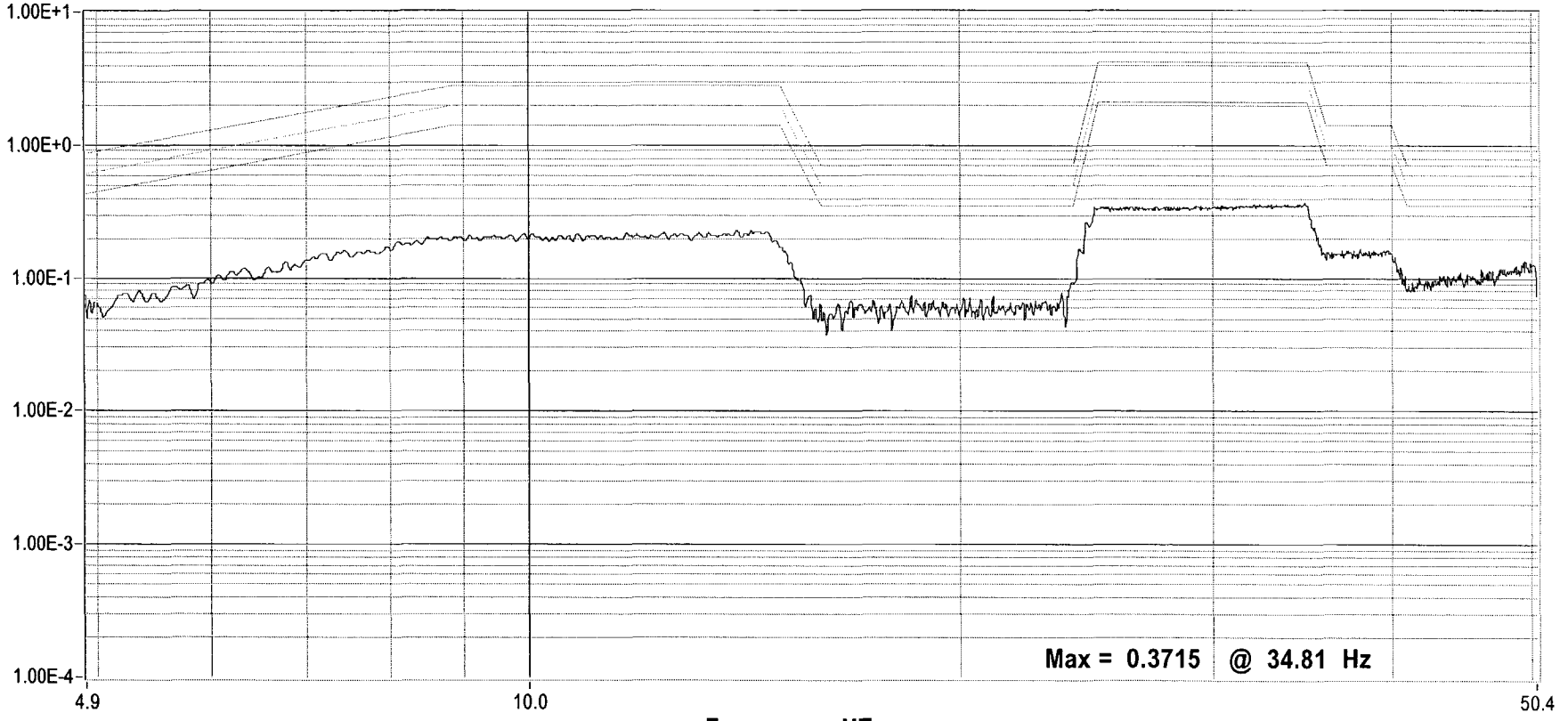
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 26 **Node Number:** 0026

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:52 PM

A10 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A10 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

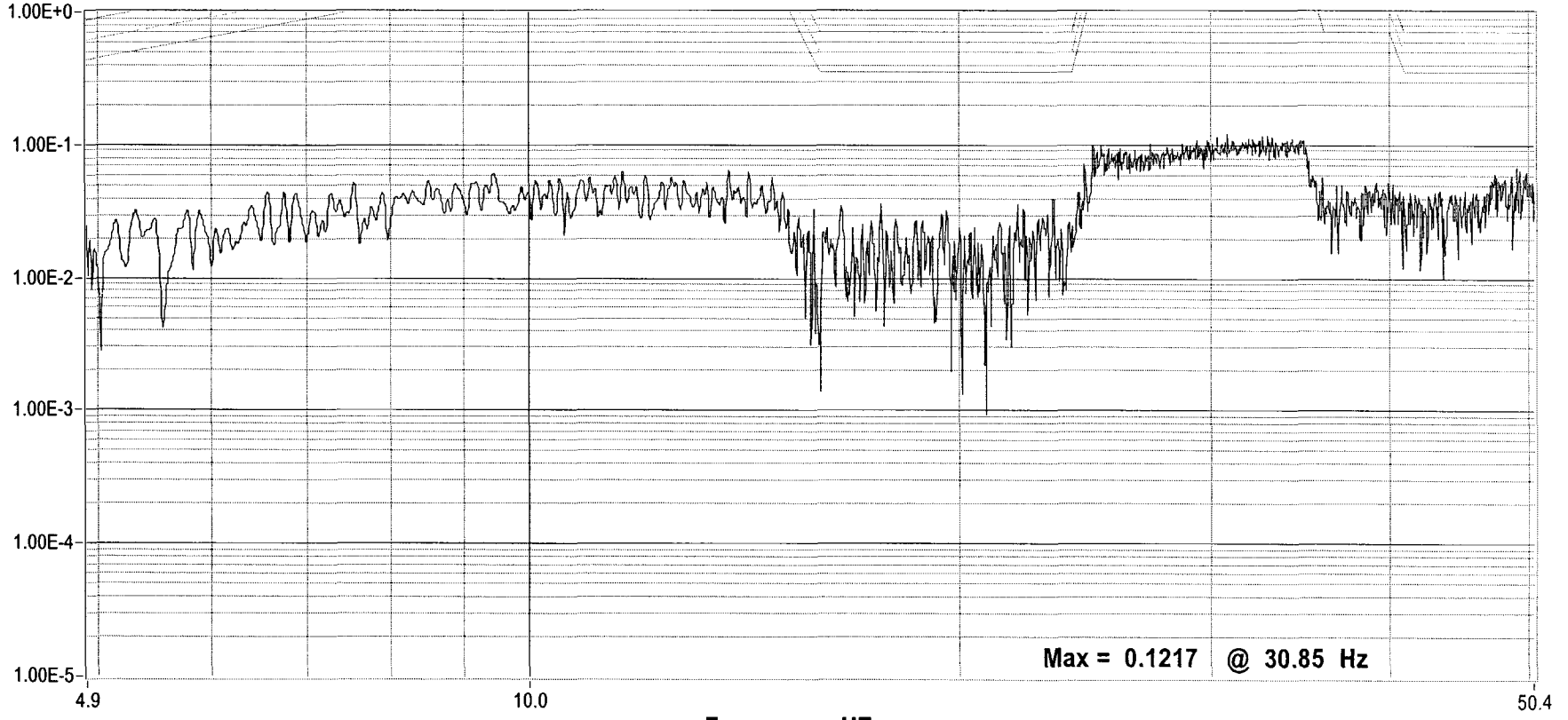
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 27 **Node Number:** 0027

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

A10 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A10 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

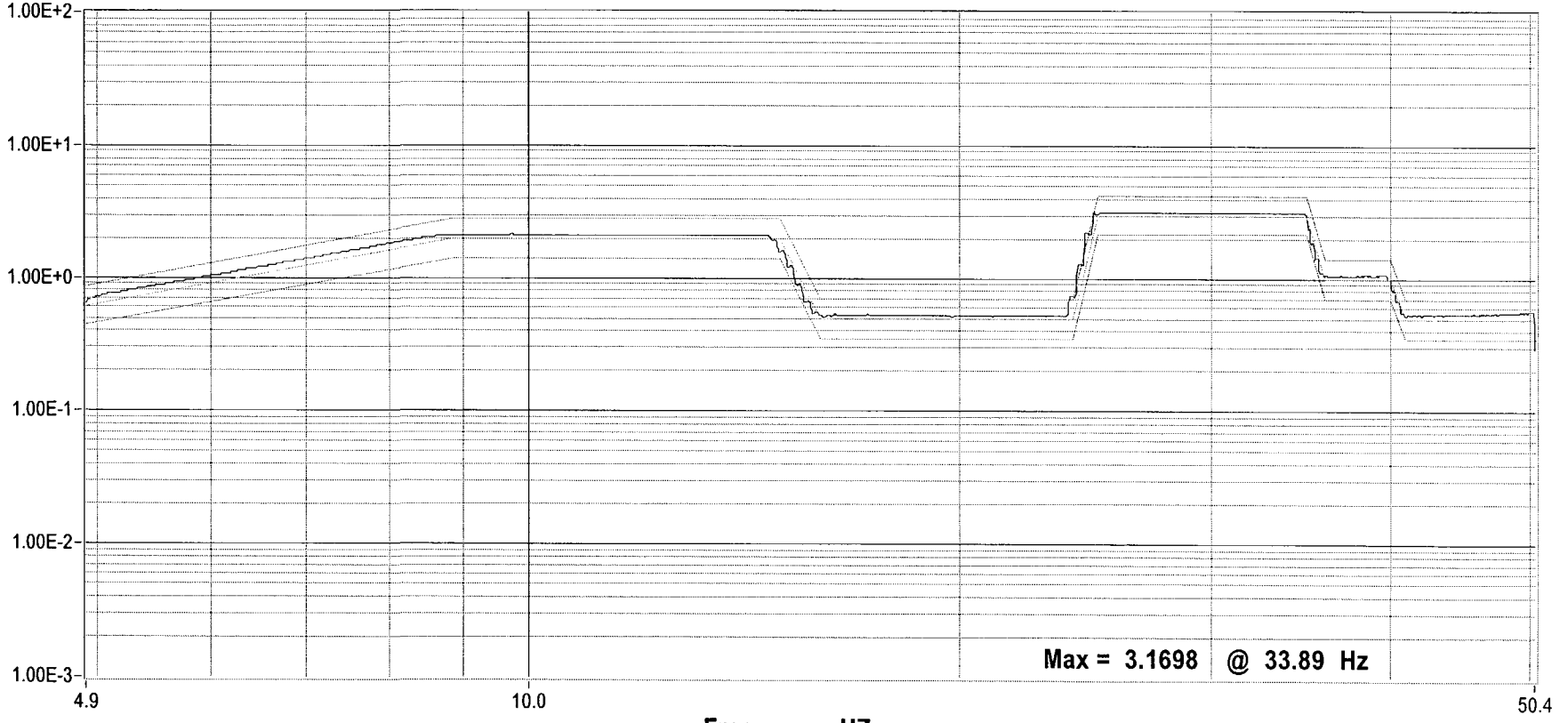
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 28 **Node Number:** 0028

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

A10 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

DRIVE

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

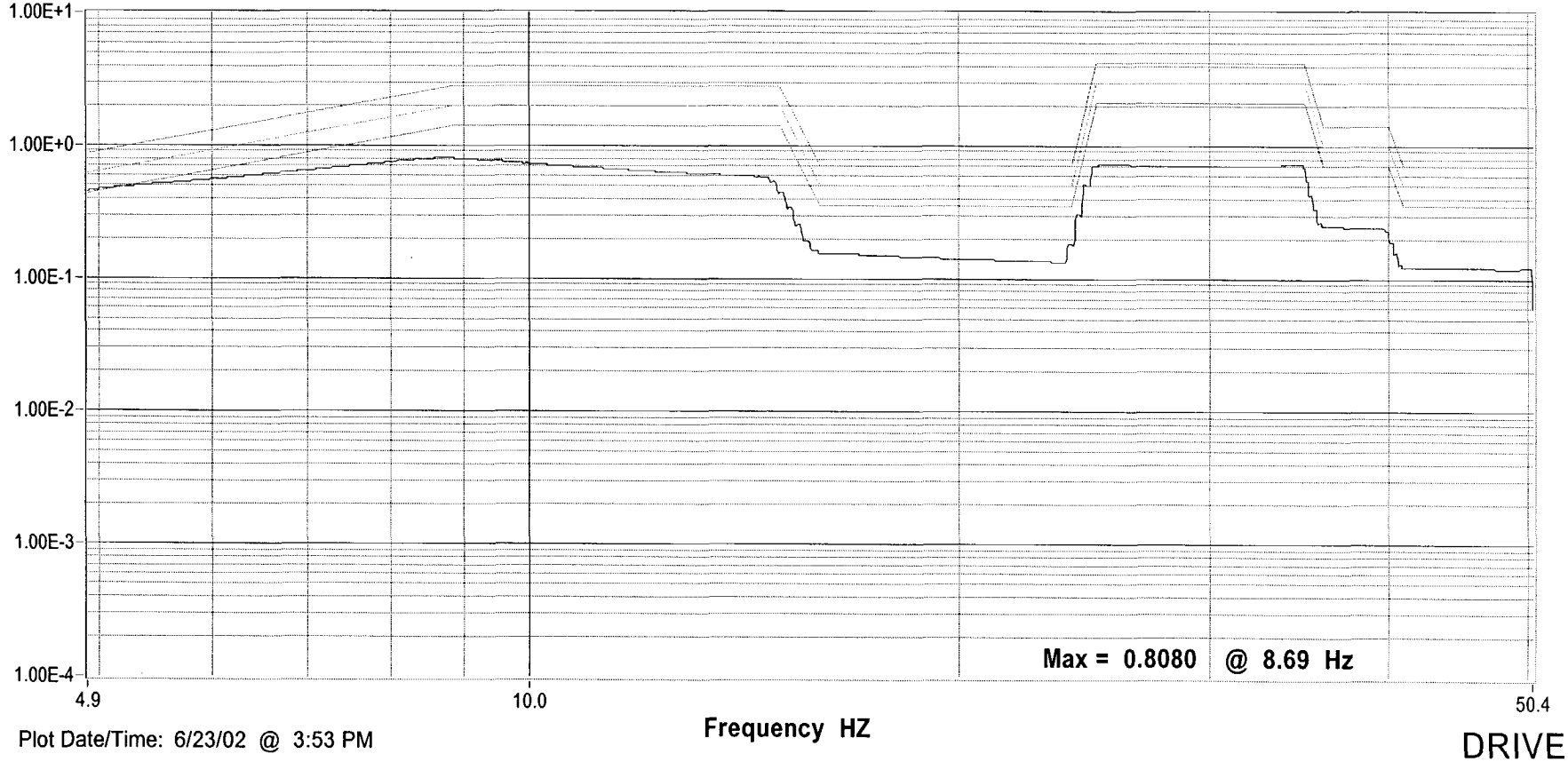
Channel #: 31 **Node Number:** 0031

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

DRIVE

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

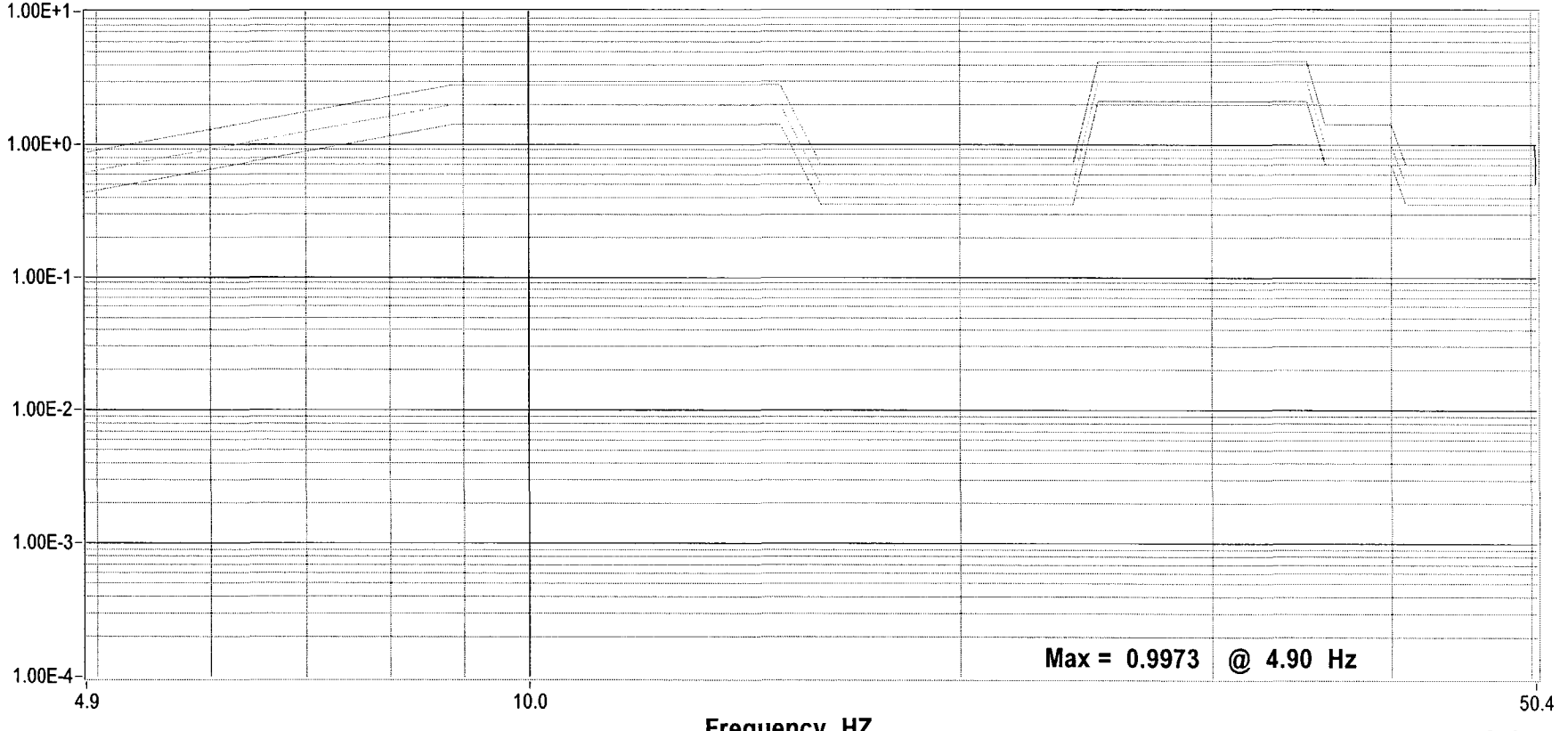
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 32 **Node Number:** 0032

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 40 **Node Number:** 0040

Channel Description: BOX 3 CH 8 SN=AB06

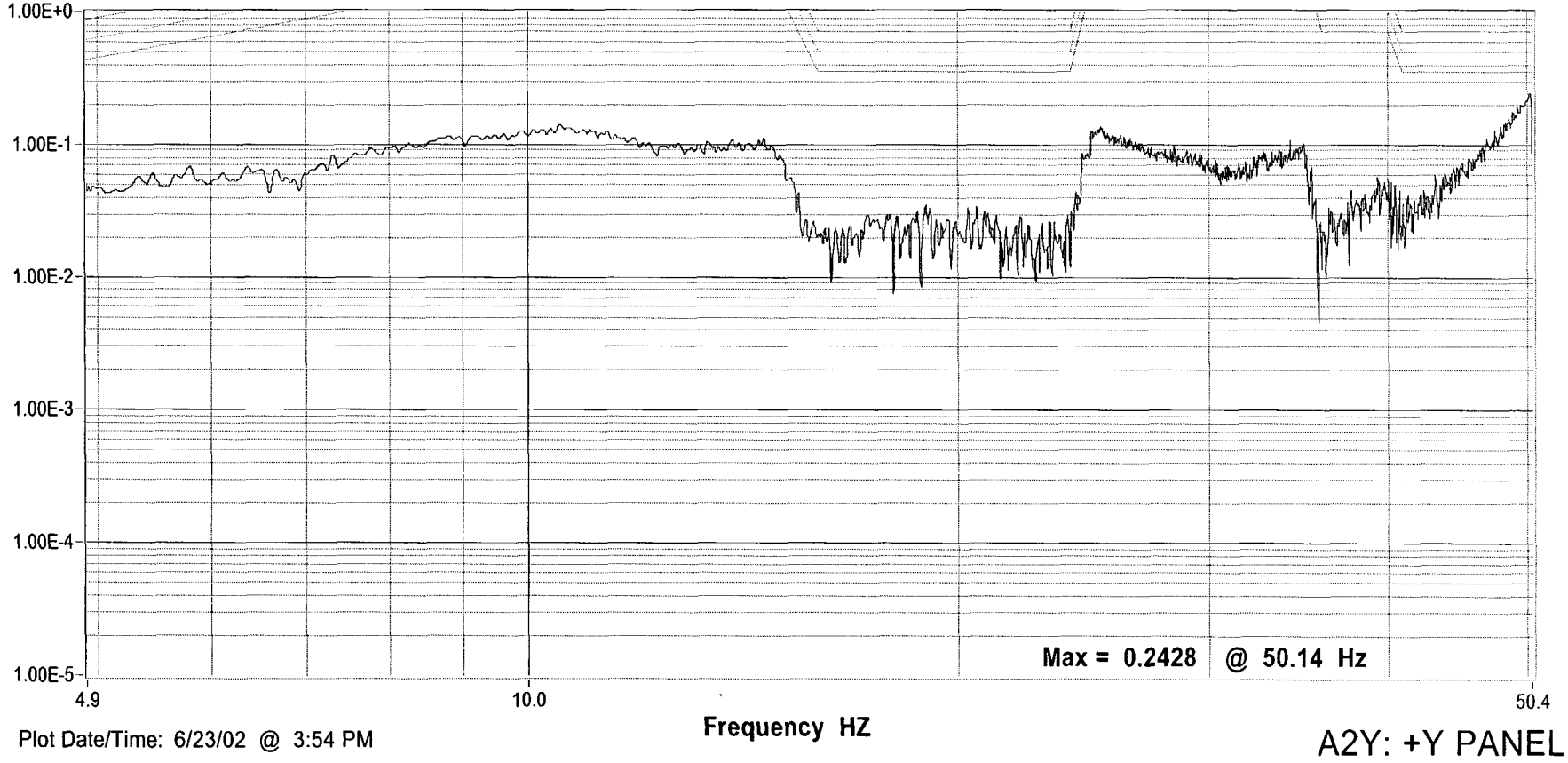
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A2Y: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:54 PM

A2Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A1Y: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

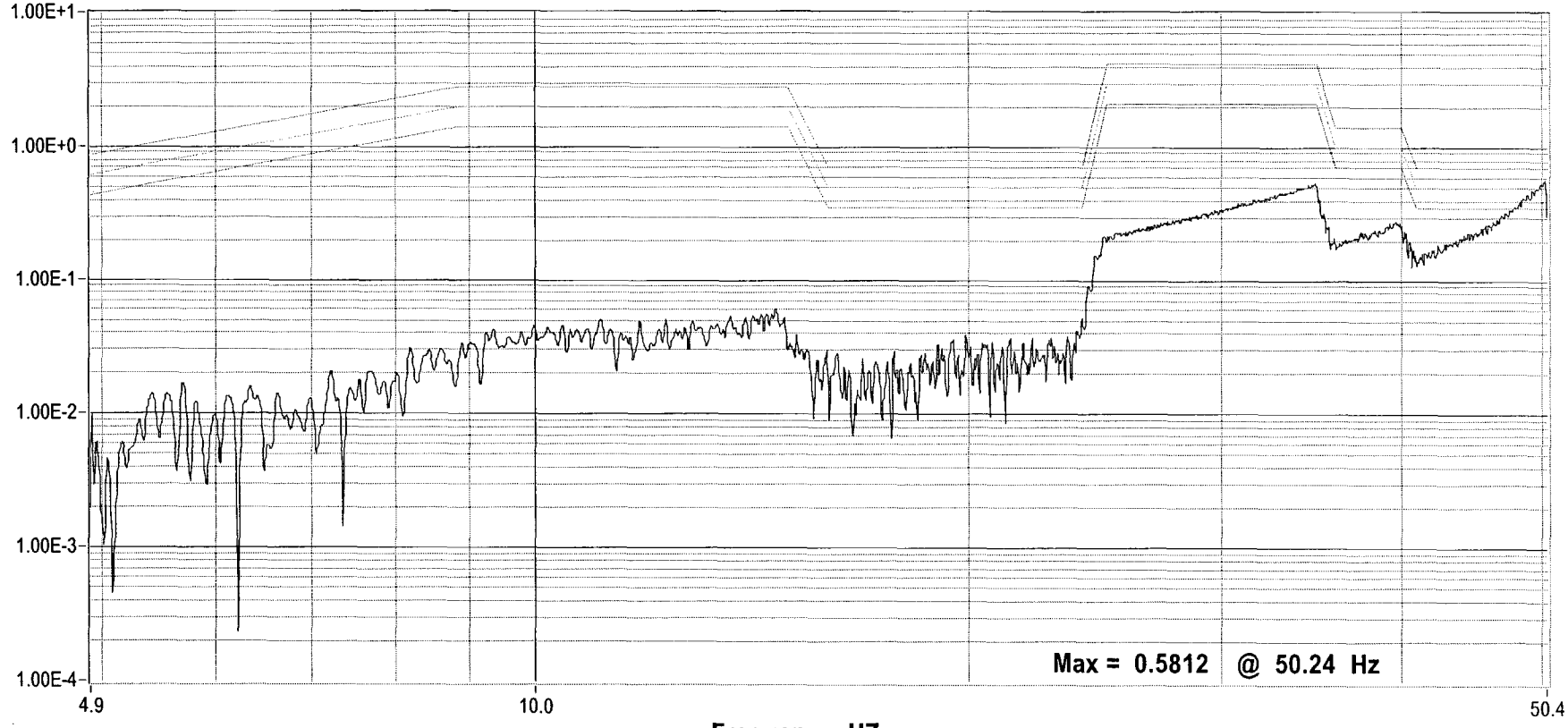
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 34 **Node Number:** 0034

Channel Description: BOX 3 CH 2 SN=AC40

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

A1Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 48 **Node Number:** 0048

Channel Description: BOX 3 CH 16 SN=AE43

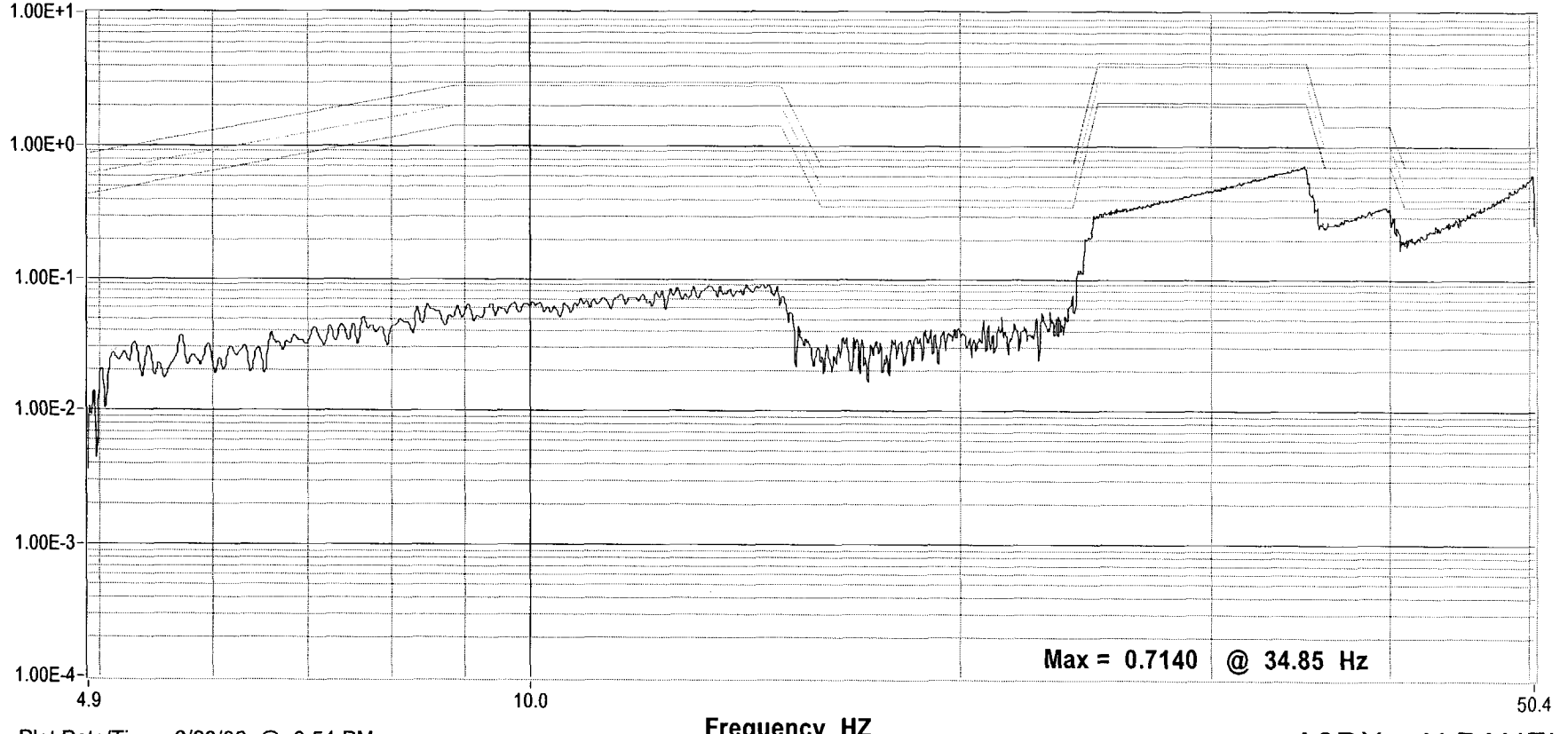
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A3RX: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:54 PM

A3RX: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A4Z: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

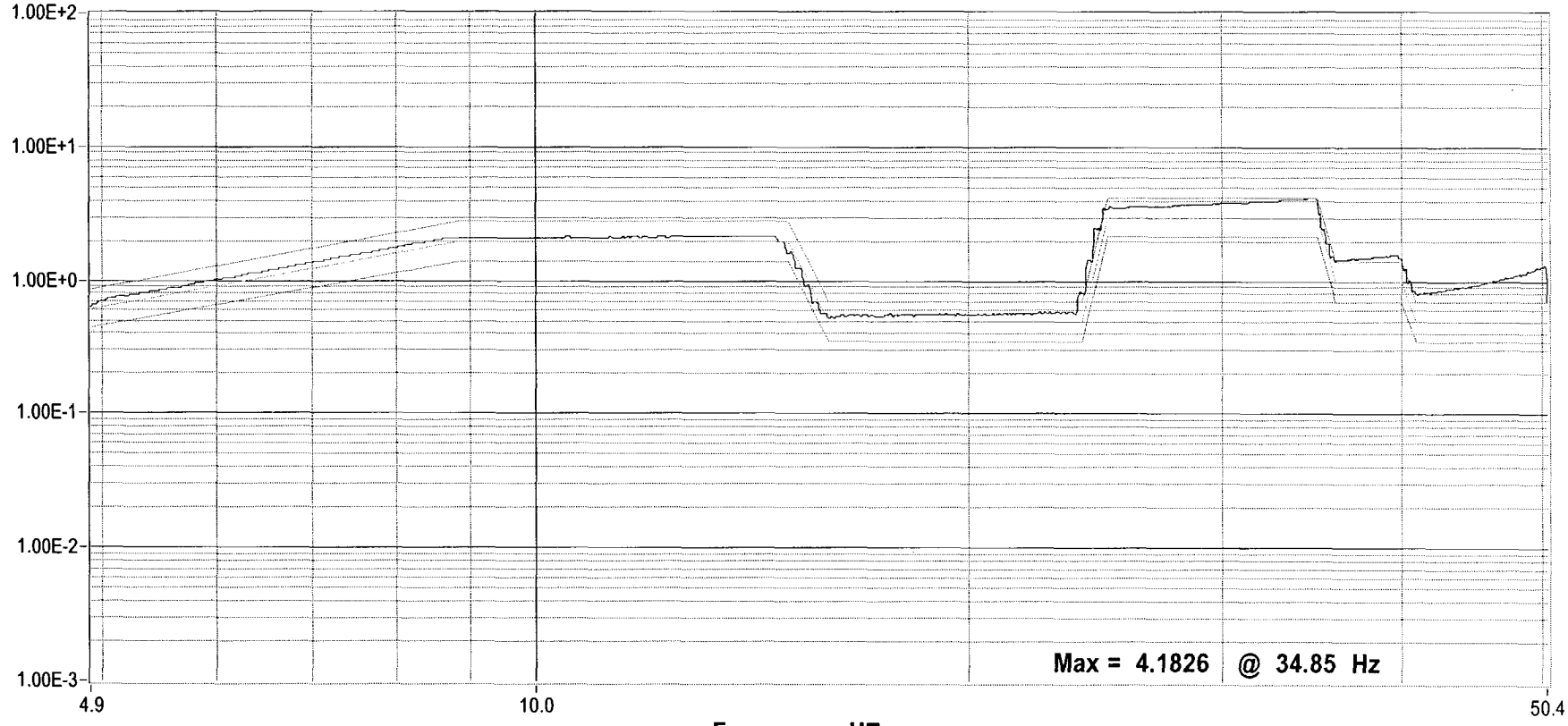
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 53 **Node Number:** 0053

Channel Description: BOX 4 CH 5 SN=AB55

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:55 PM

A4Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

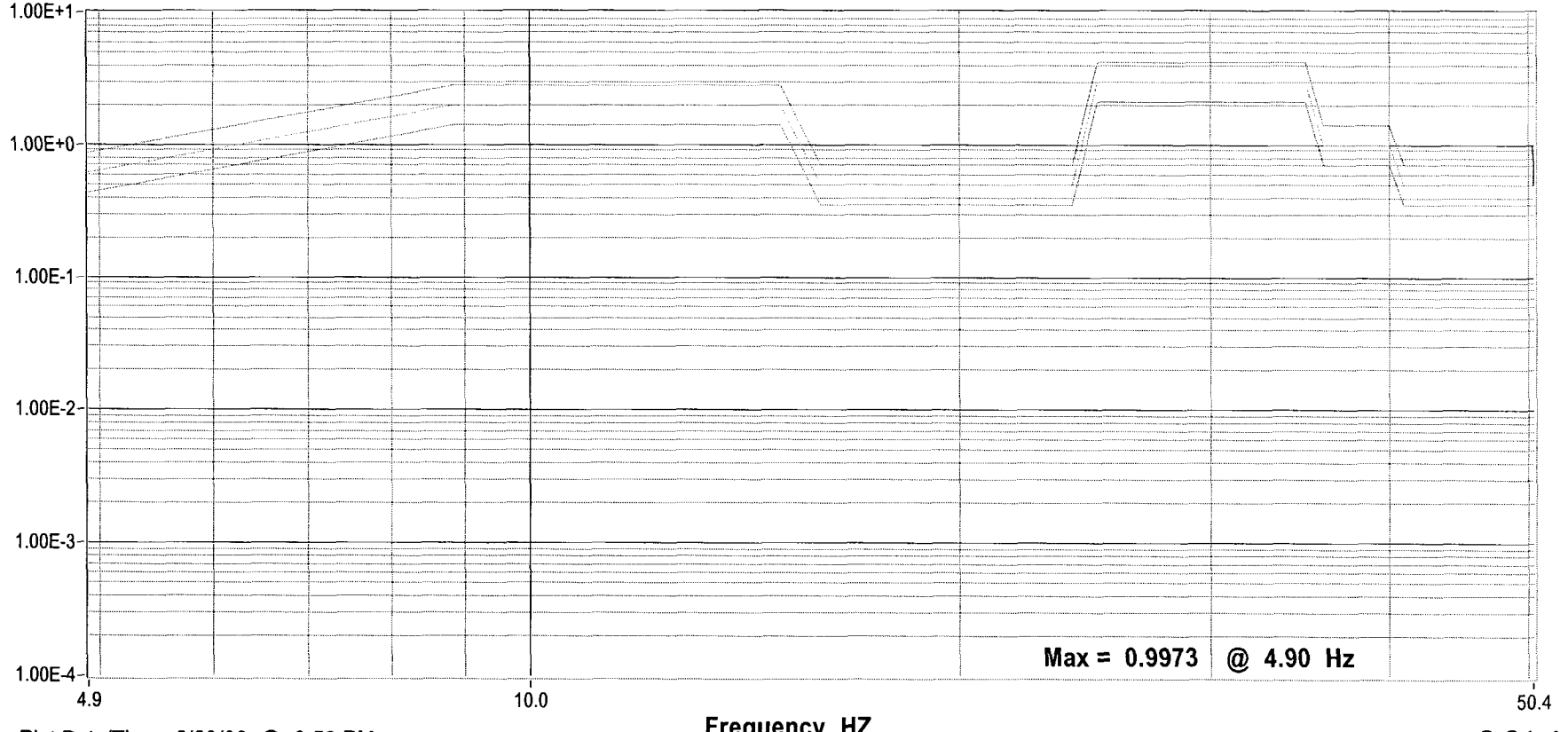
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 32 **Node Number:** 0032

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 37 **Node Number:** 0037

Channel Description: BOX 3 CH 5 SN=AB88

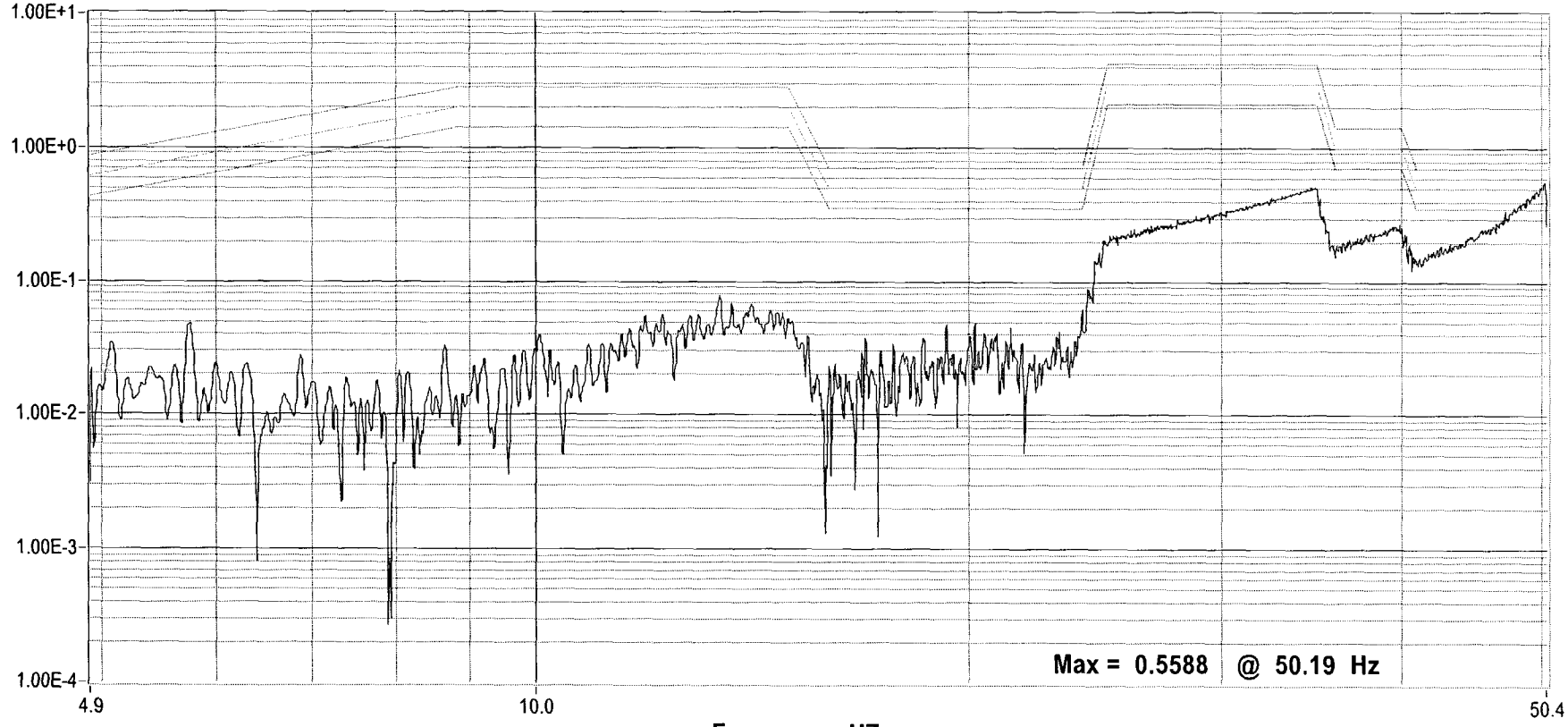
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A1RY: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:53 PM

A1RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 42 **Node Number:** 0042

Channel Description: BOX 3 CH 10 SN=AJ30

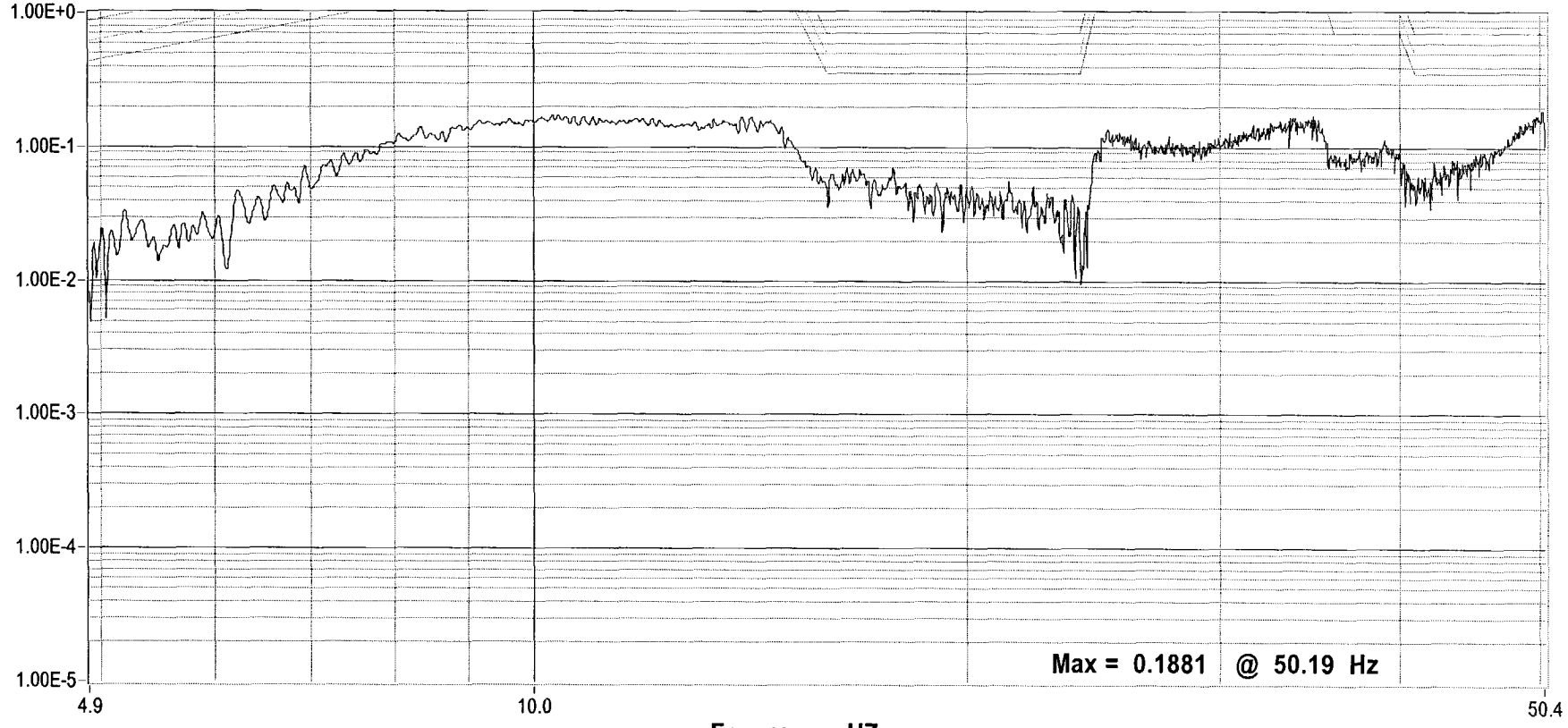
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A2RX: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Frequency HZ

Plot Date/Time: 6/23/02 @ 3:54 PM

A2RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

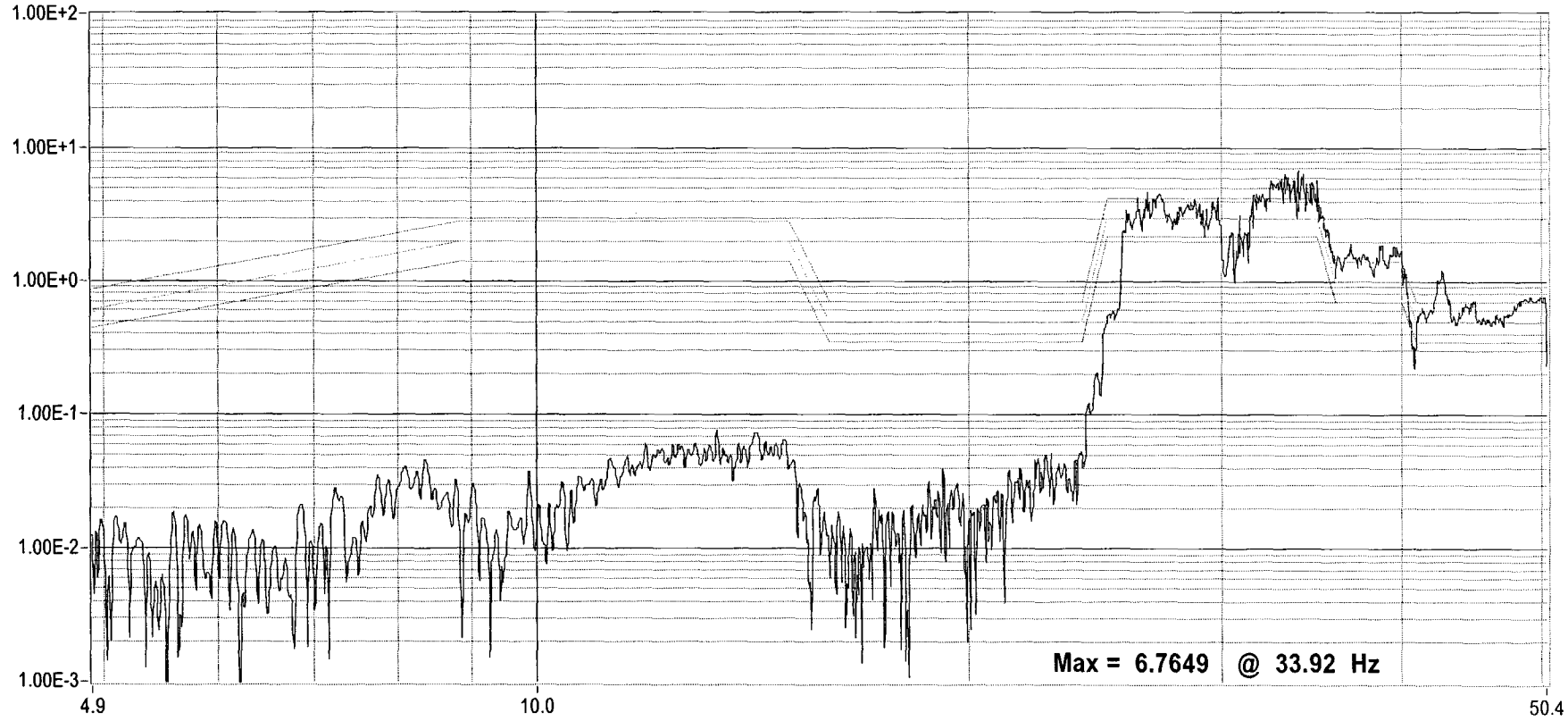
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:54 PM

A3X: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 51 **Node Number:** 0051

Channel Description: BOX 4 CH 3 SN=AH55

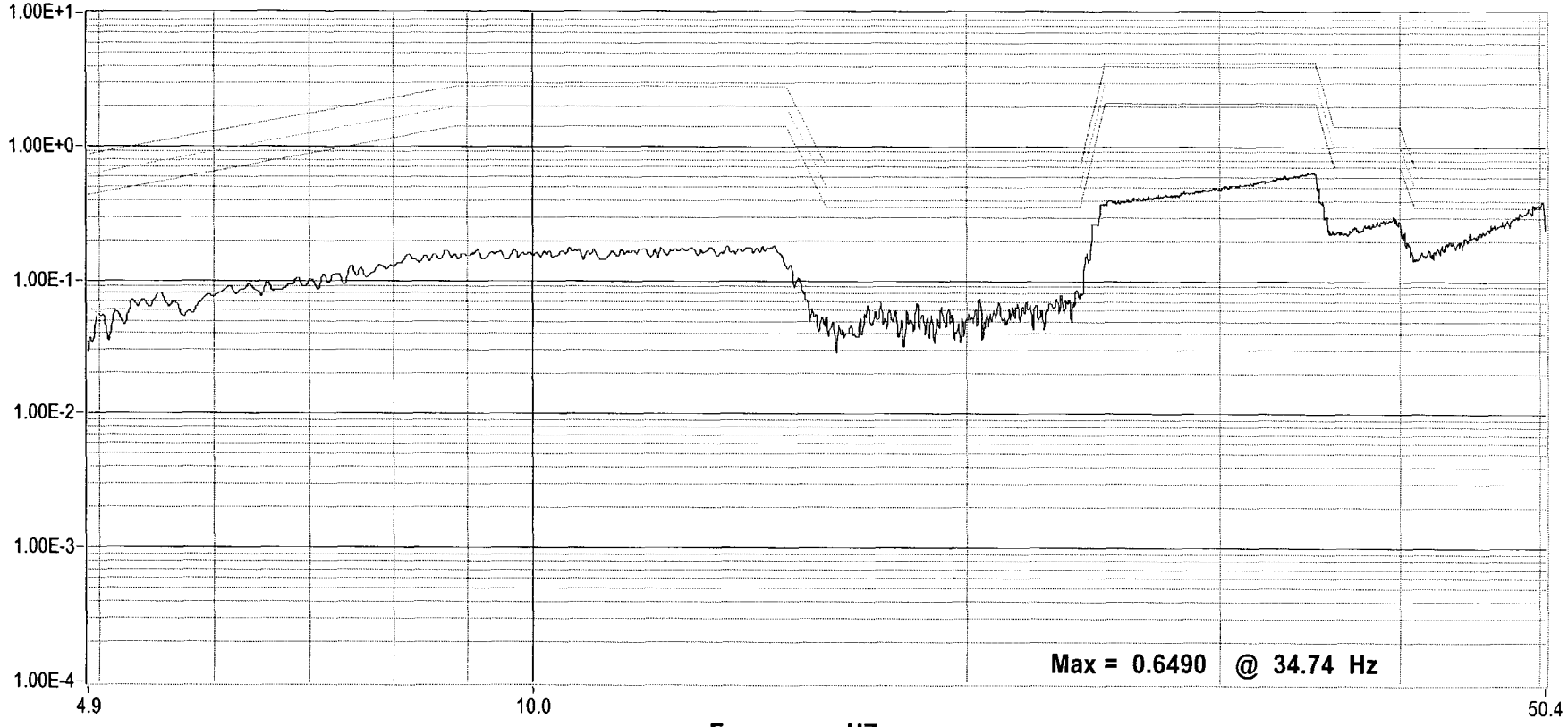
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A4X: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:55 PM

A4X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 33 **Node Number:** 0033

Channel Description: BOX 3 CH 1 SN=AE71-1

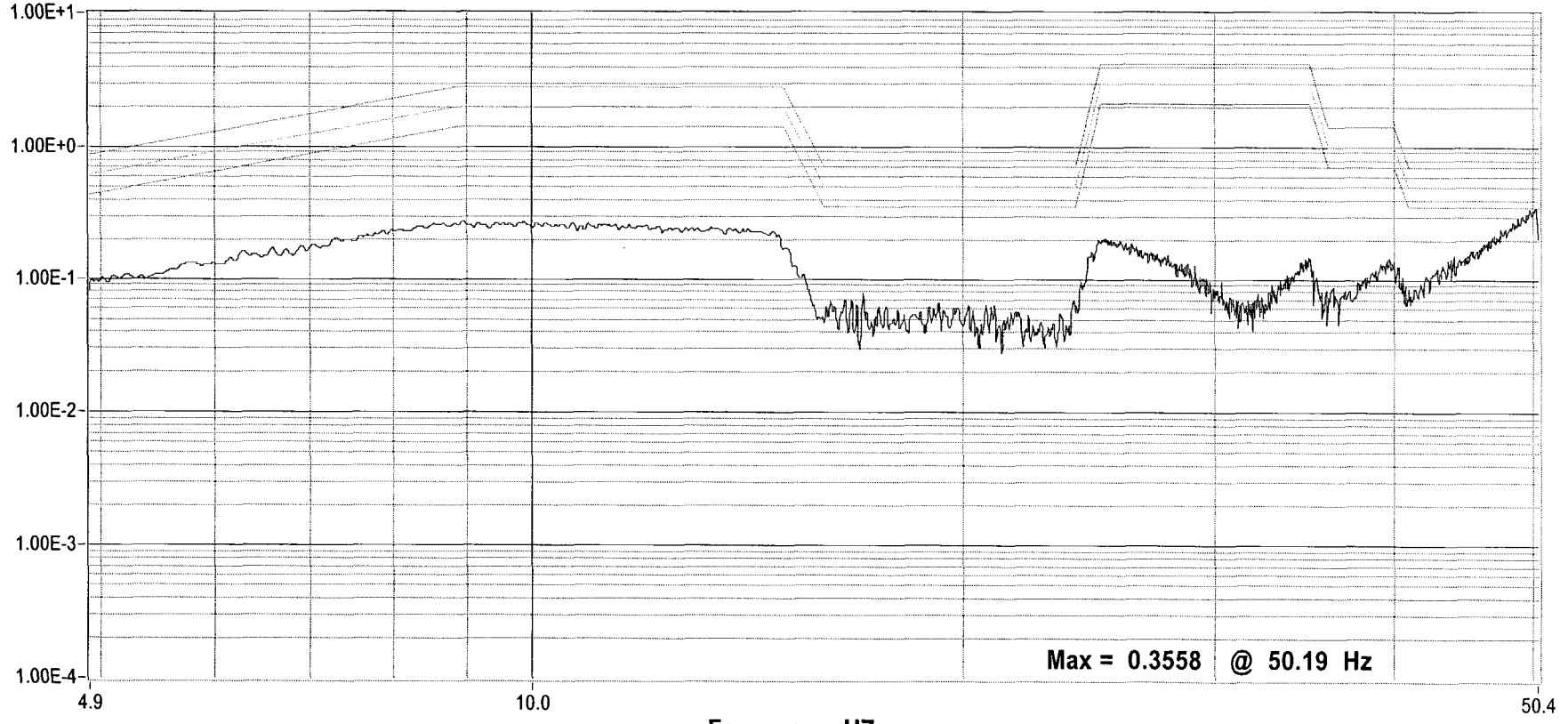
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A1X: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

A1X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A1Z: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

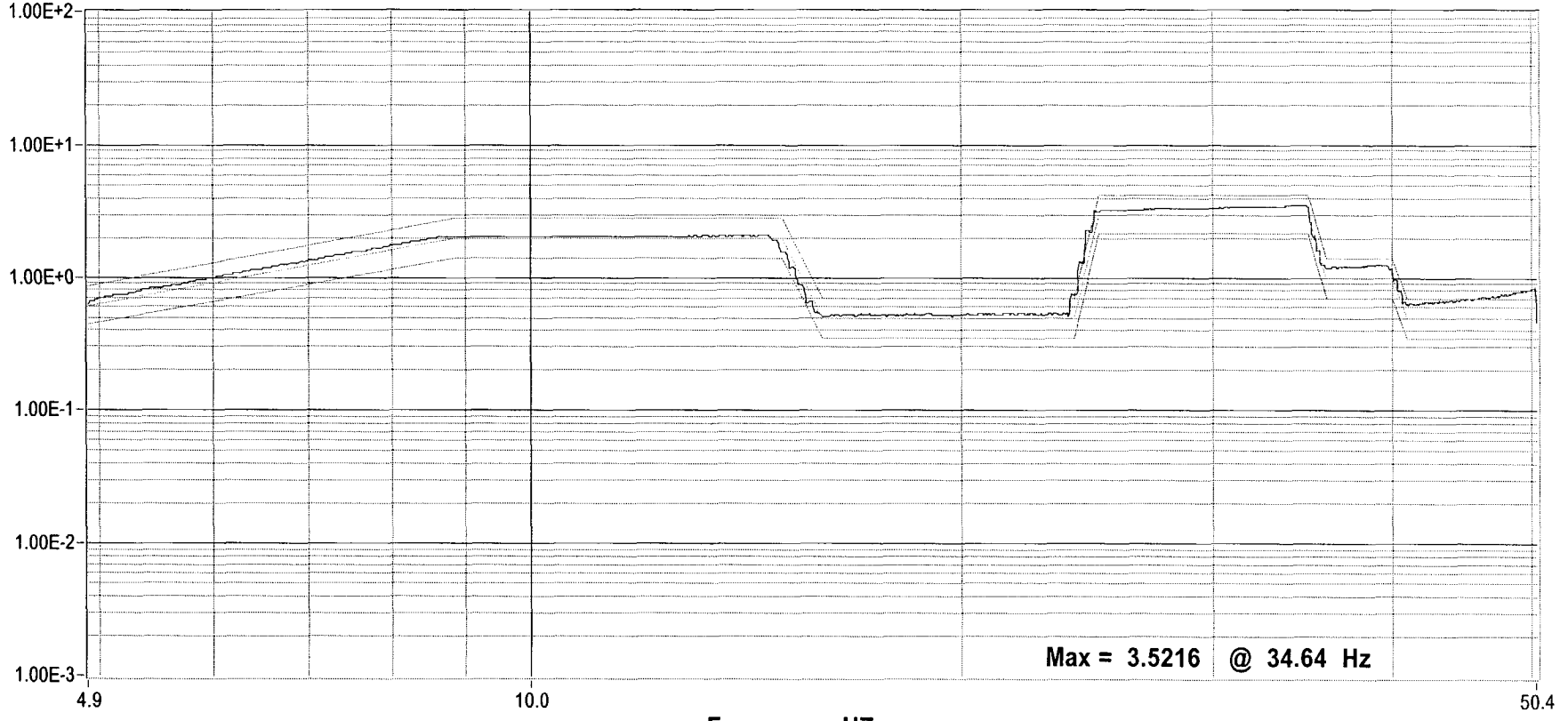
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 35 **Node Number:** 0035

Channel Description: BOX 3 CH 3 SN=AD72

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

A1Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A1RX: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

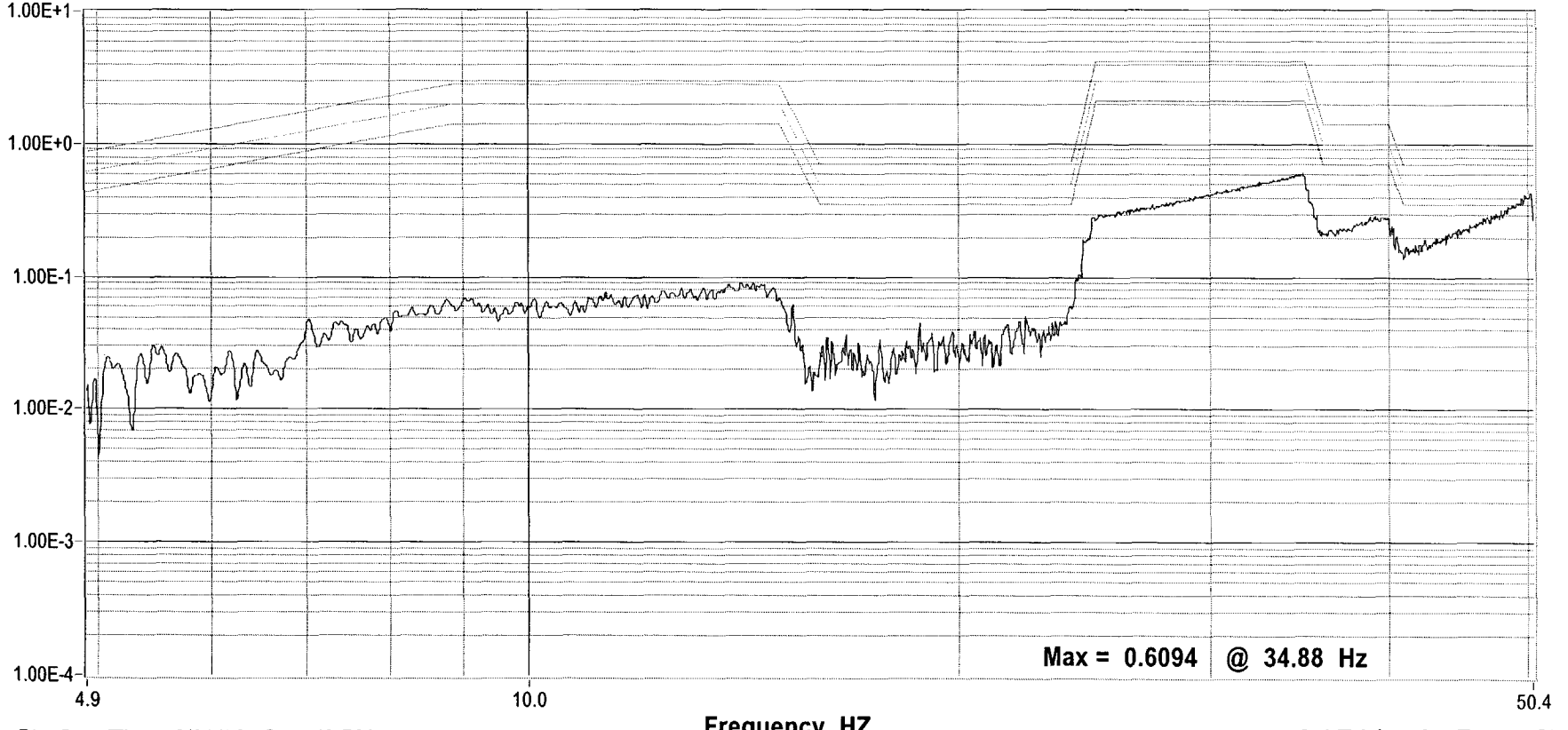
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 36 **Node Number:** 0036

Channel Description: BOX 3 CH 4 SN=AF35

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:53 PM

A1RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 38 **Node Number:** 0038

Channel Description: BOX 3 CH 6 SN=AG51

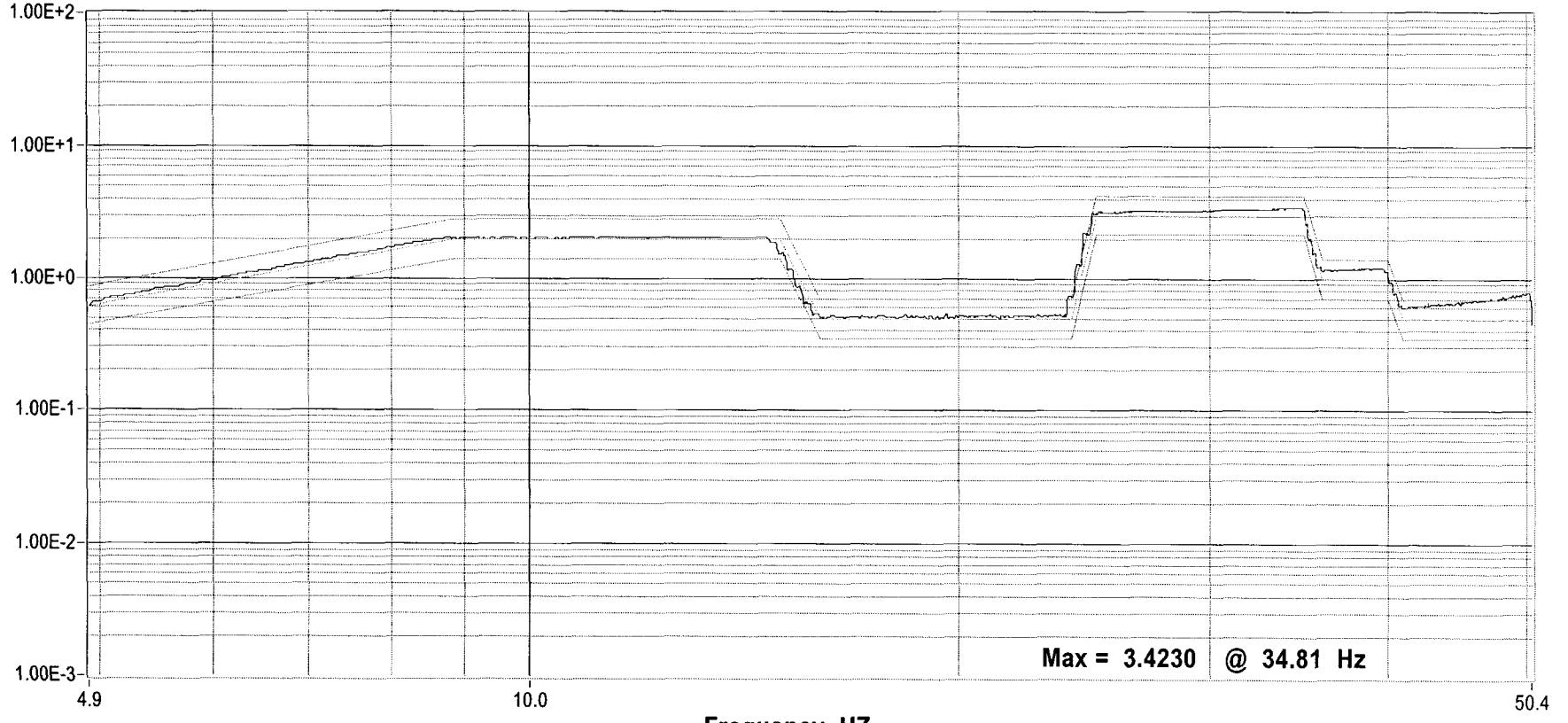
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A1RZ: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:53 PM

A1RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 39 **Node Number:** 0039

Channel Description: BOX 3 CH 7 SN=AK10

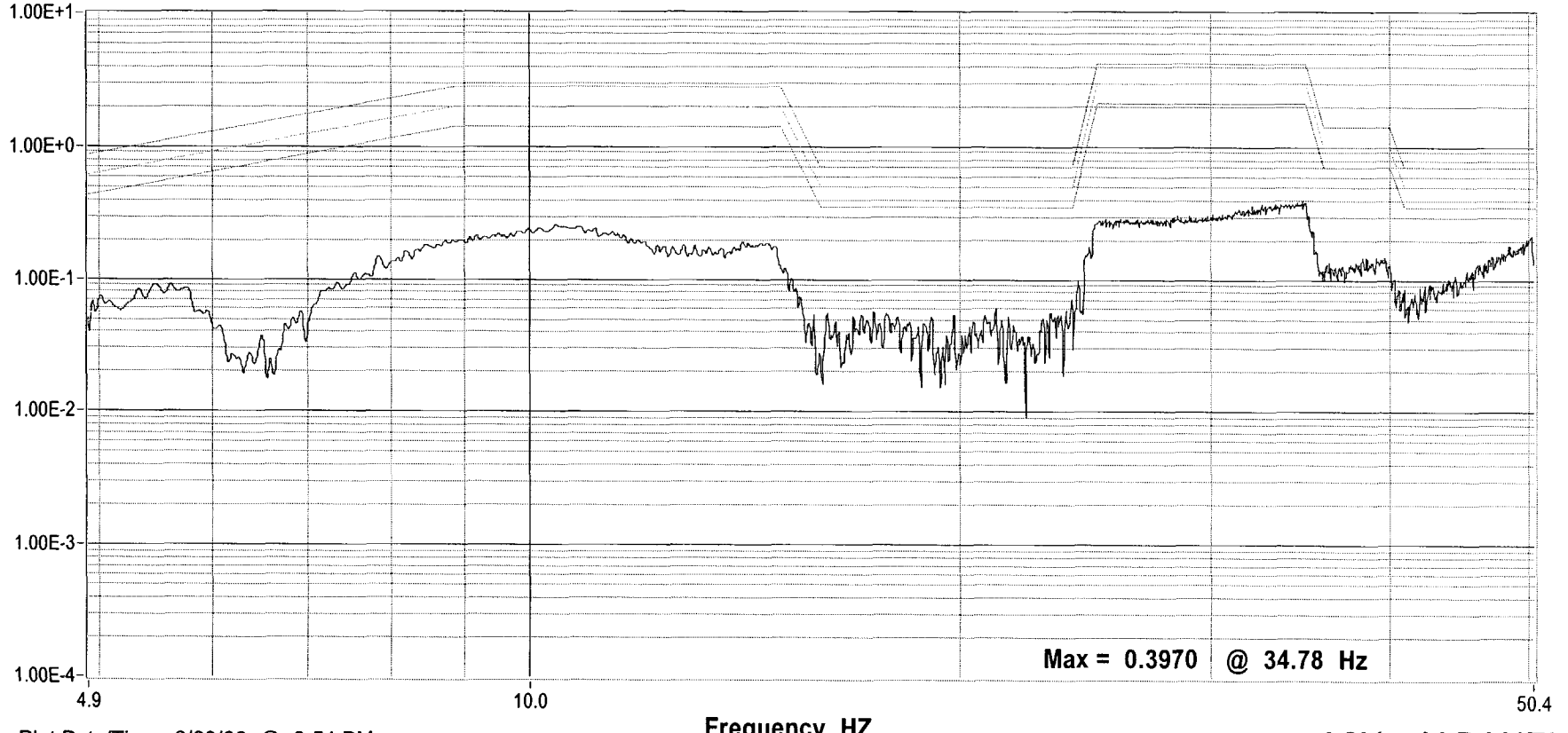
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A2X: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:54 PM

A2X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 41 **Node Number:** 0041

Channel Description: BOX 3 CH 9 SN=AF28

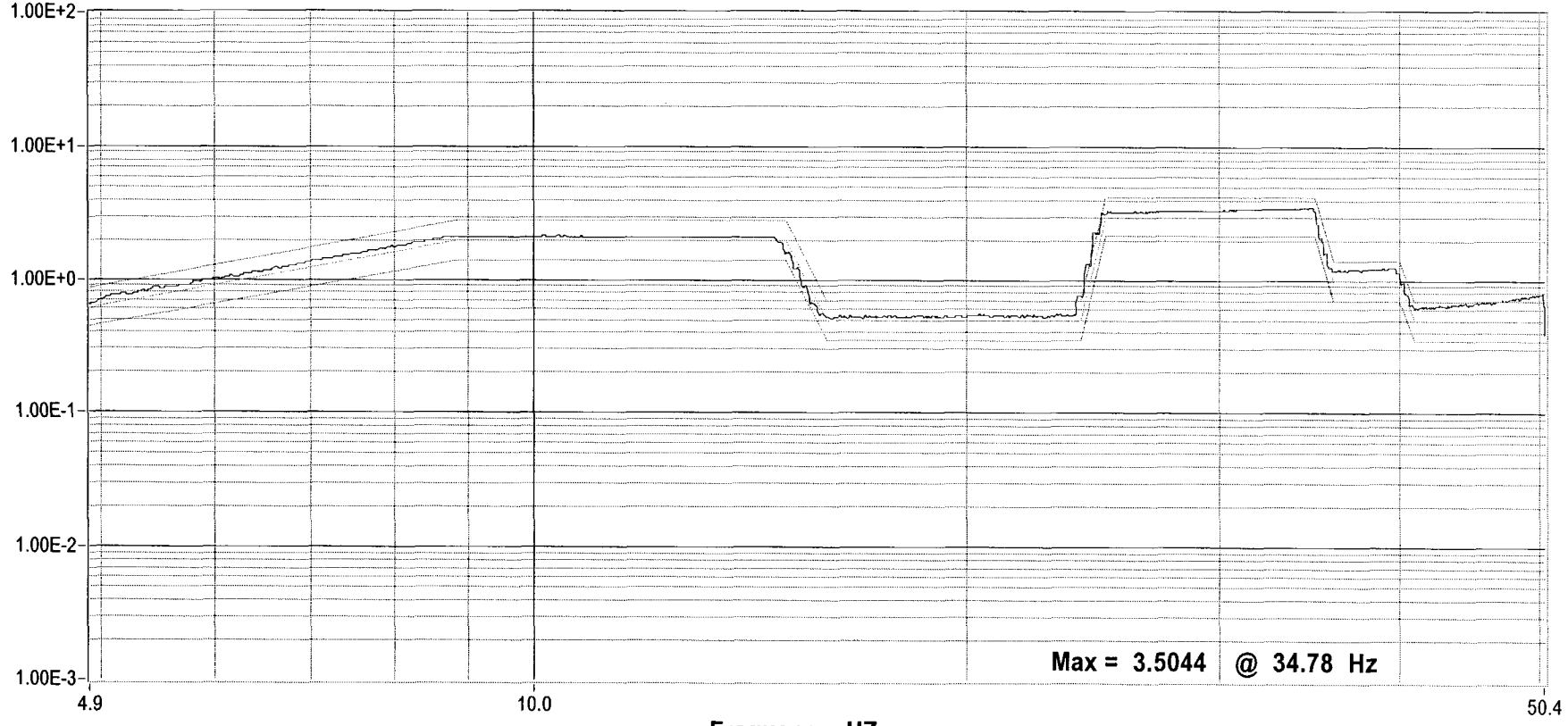
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A2Z: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:54 PM

A2Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A2RY: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

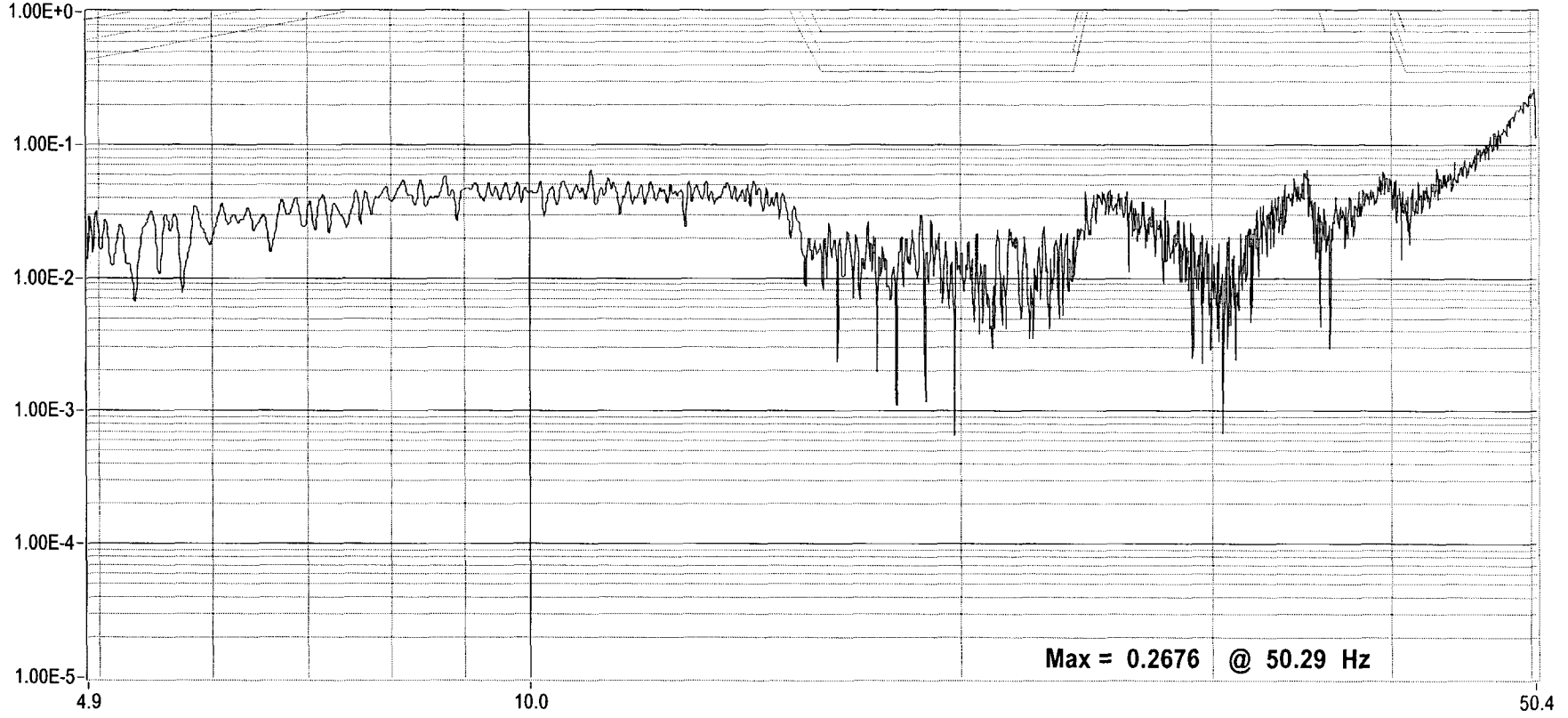
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 43 **Node Number:** 0043

Channel Description: BOX 3 CH 11 SN=AE60

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:54 PM

A2RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A2RZ: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

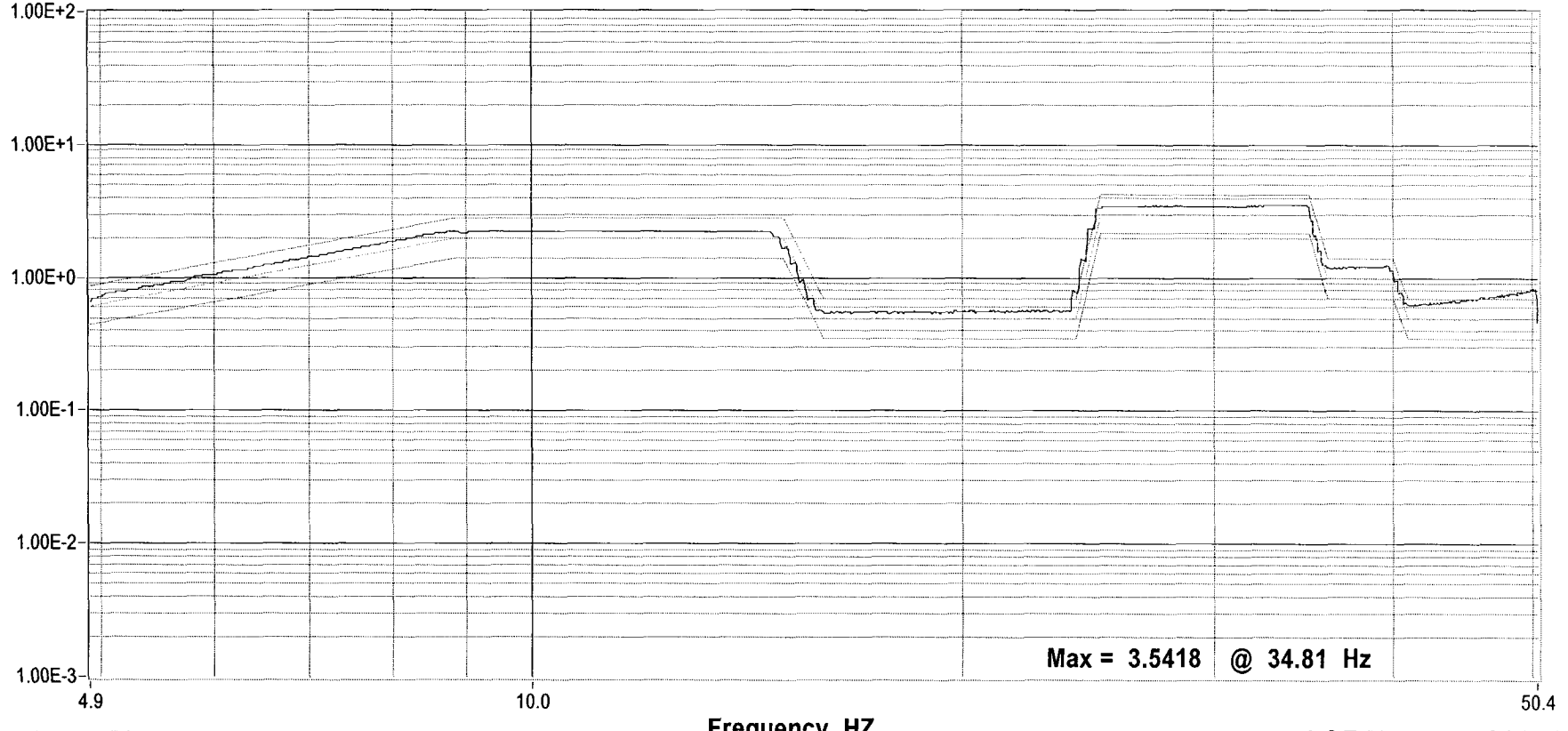
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 44 **Node Number:** 0044

Channel Description: BOX 3 CH 12 SN=AG01

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:54 PM

A2RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 46 **Node Number:** 0046

Channel Description: BOX 3 CH 14 SN=AG02

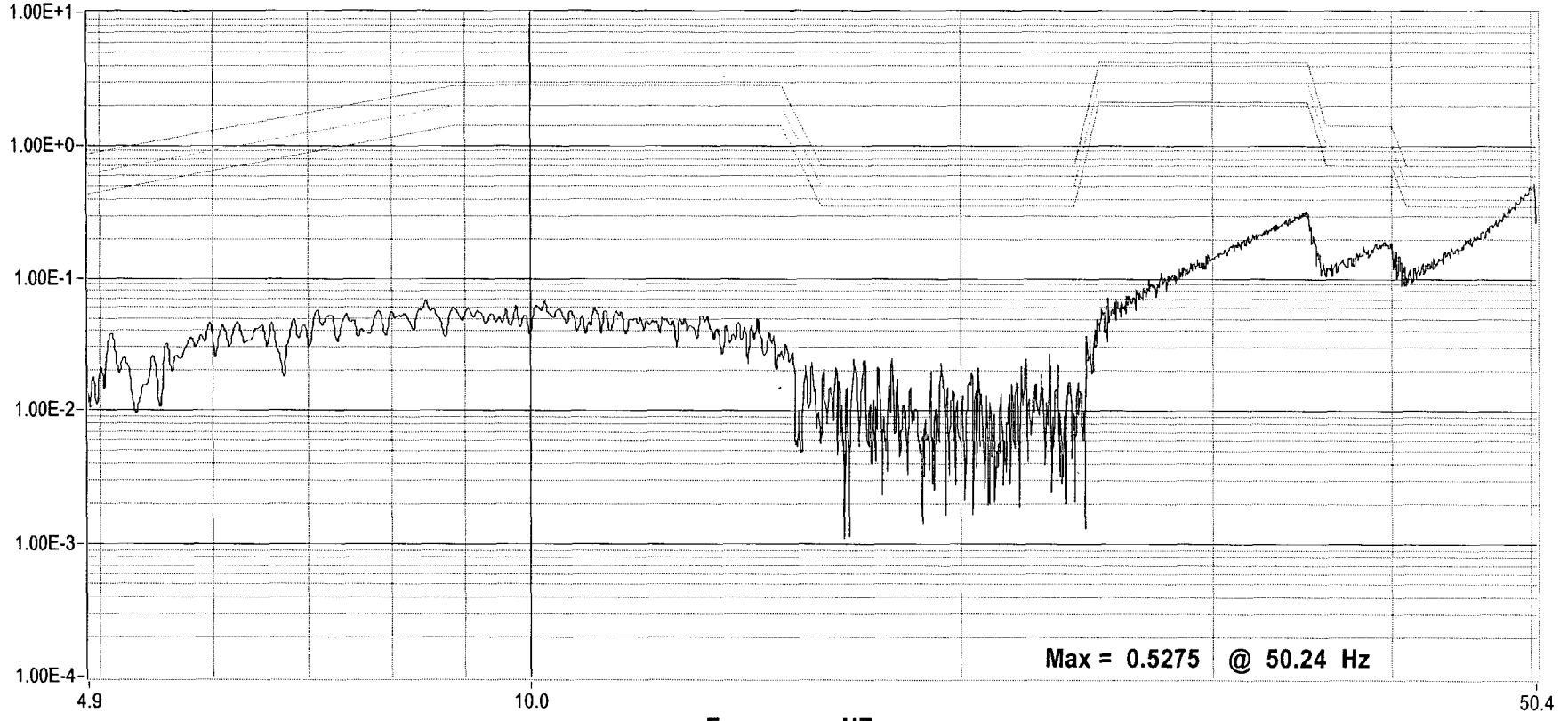
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A3Y: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:54 PM

A3Y: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 47 **Node Number:** 0047

Channel Description: BOX 3 CH 15 SN=BC12

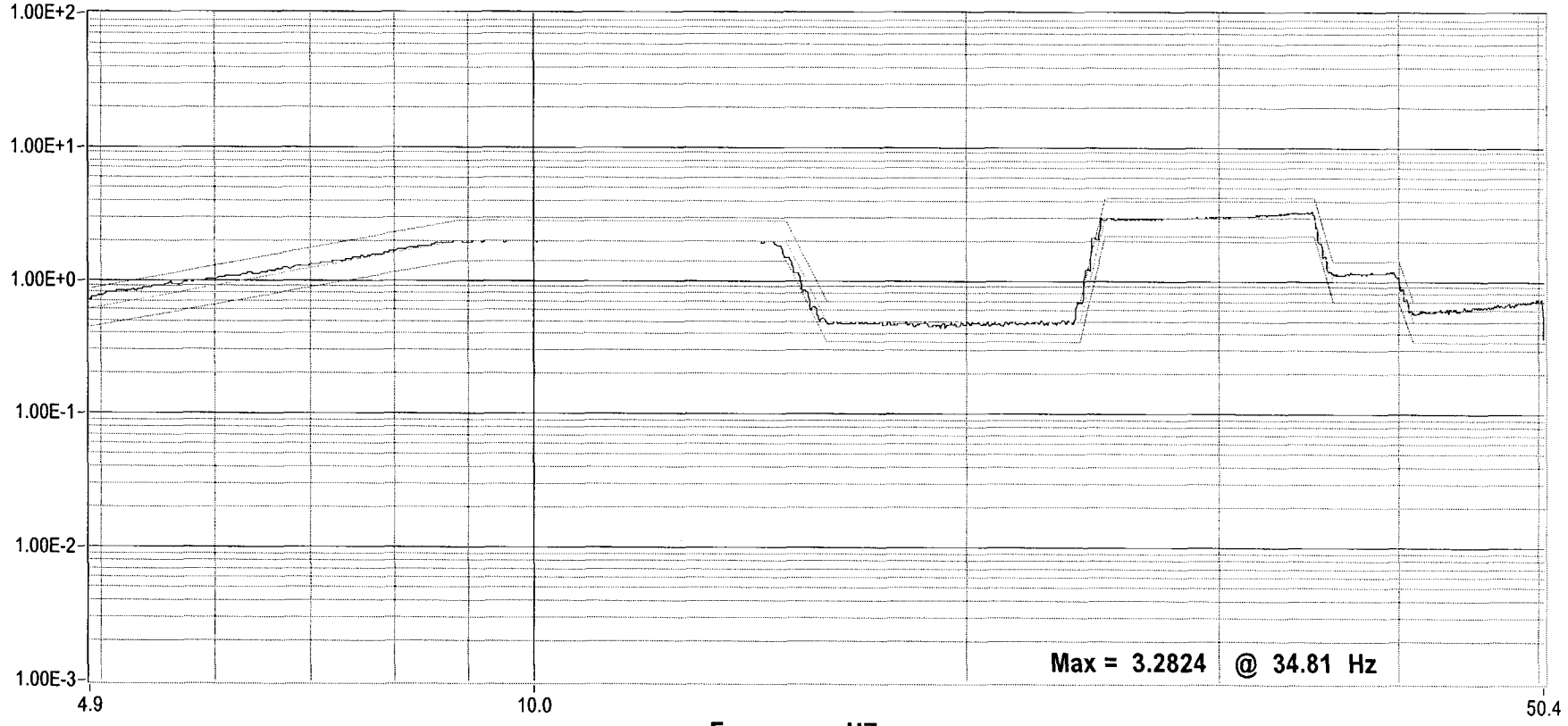
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A3Z: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:54 PM

A3Z: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 49 **Node Number:** 0049

Channel Description: BOX 4 CH 1 SN=AF57

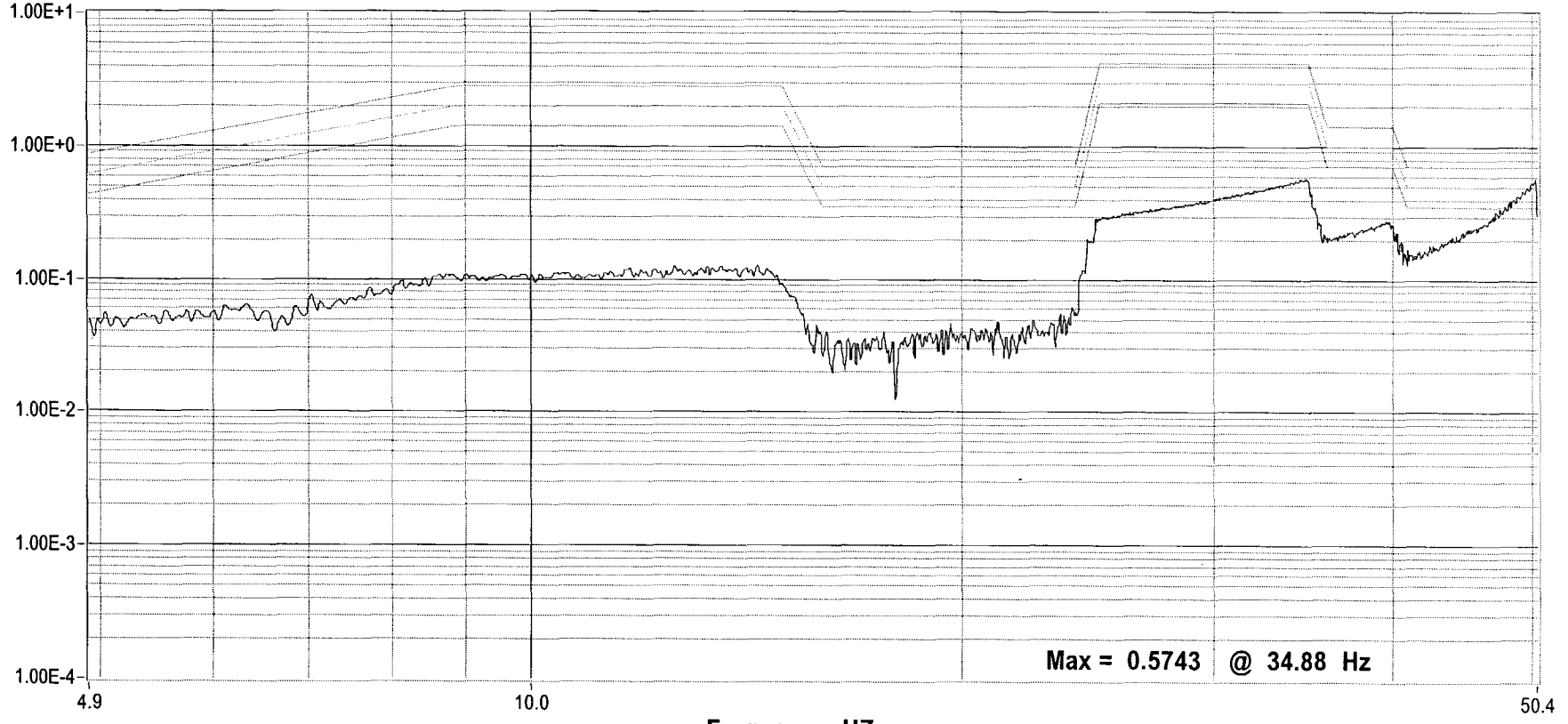
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A3RY: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:55 PM

A3RY: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 50 **Node Number:** 0050

Channel Description: BOX 4 CH 2 SN=AB65

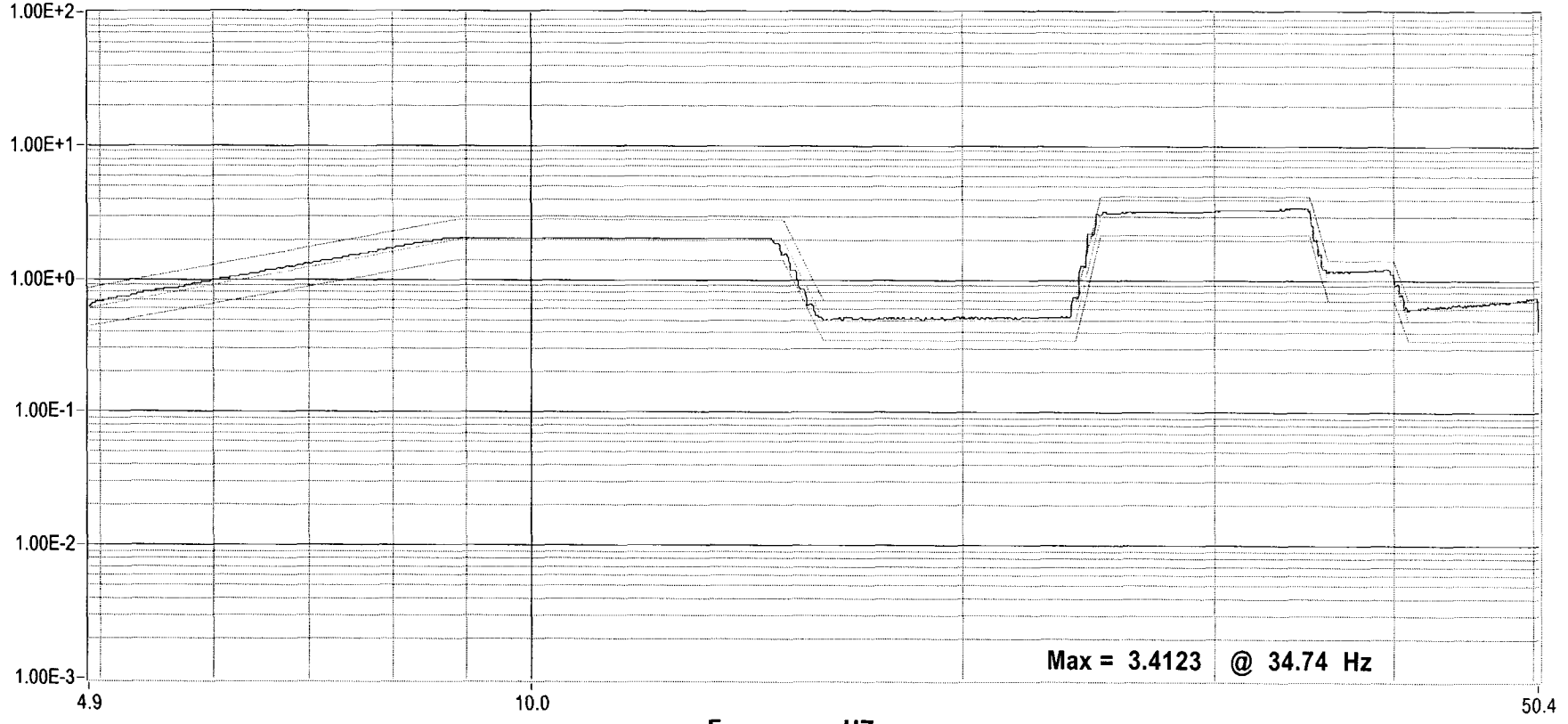
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 13:21:27

A3RZ: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE



Plot Date/Time: 6/23/02 @ 3:55 PM

A3RZ: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A4Y: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

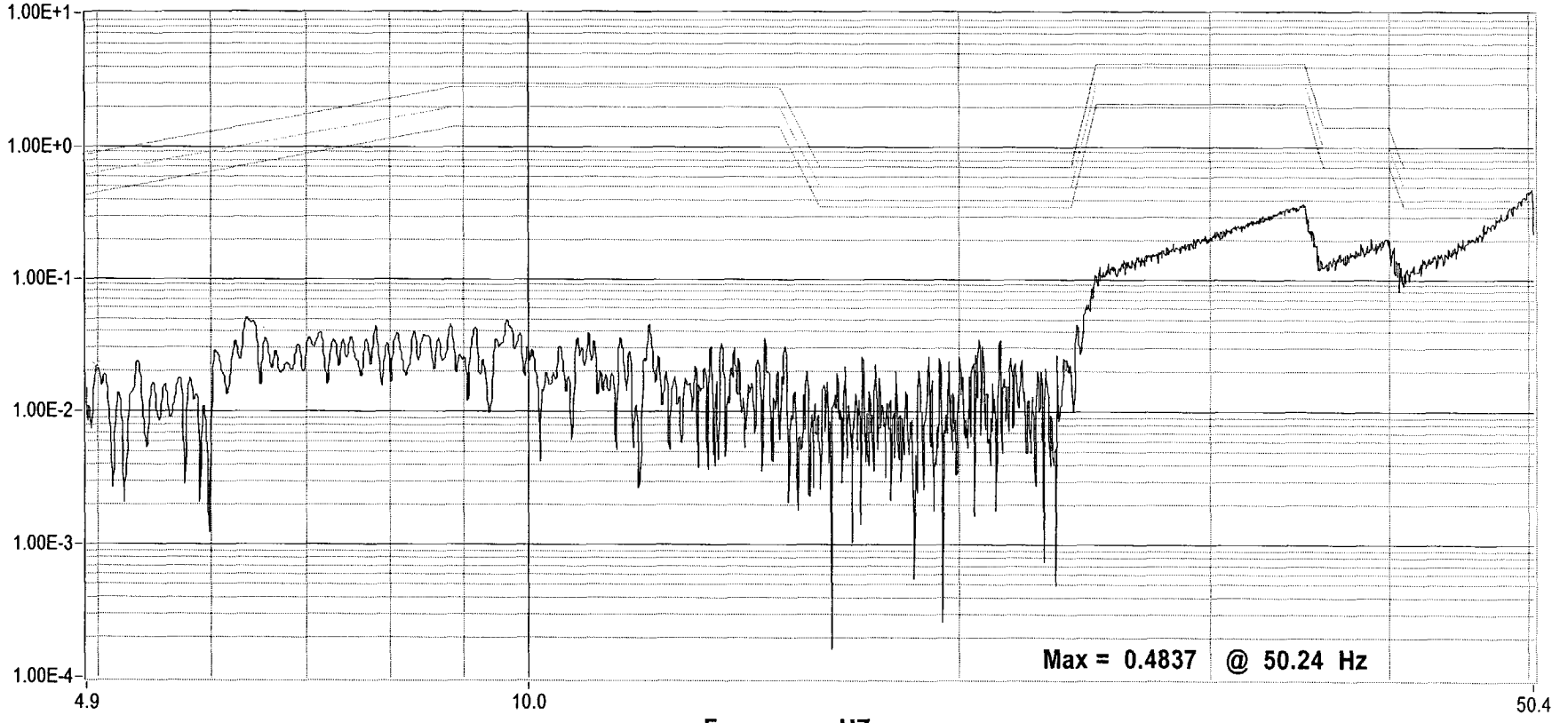
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 52 **Node Number:** 0052

Channel Description: BOX 4 CH 4 SN=AJ95

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:55 PM

A4Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 54 **Node Number:** 0054

Channel Description: BOX 4 CH 6 SN=AF10

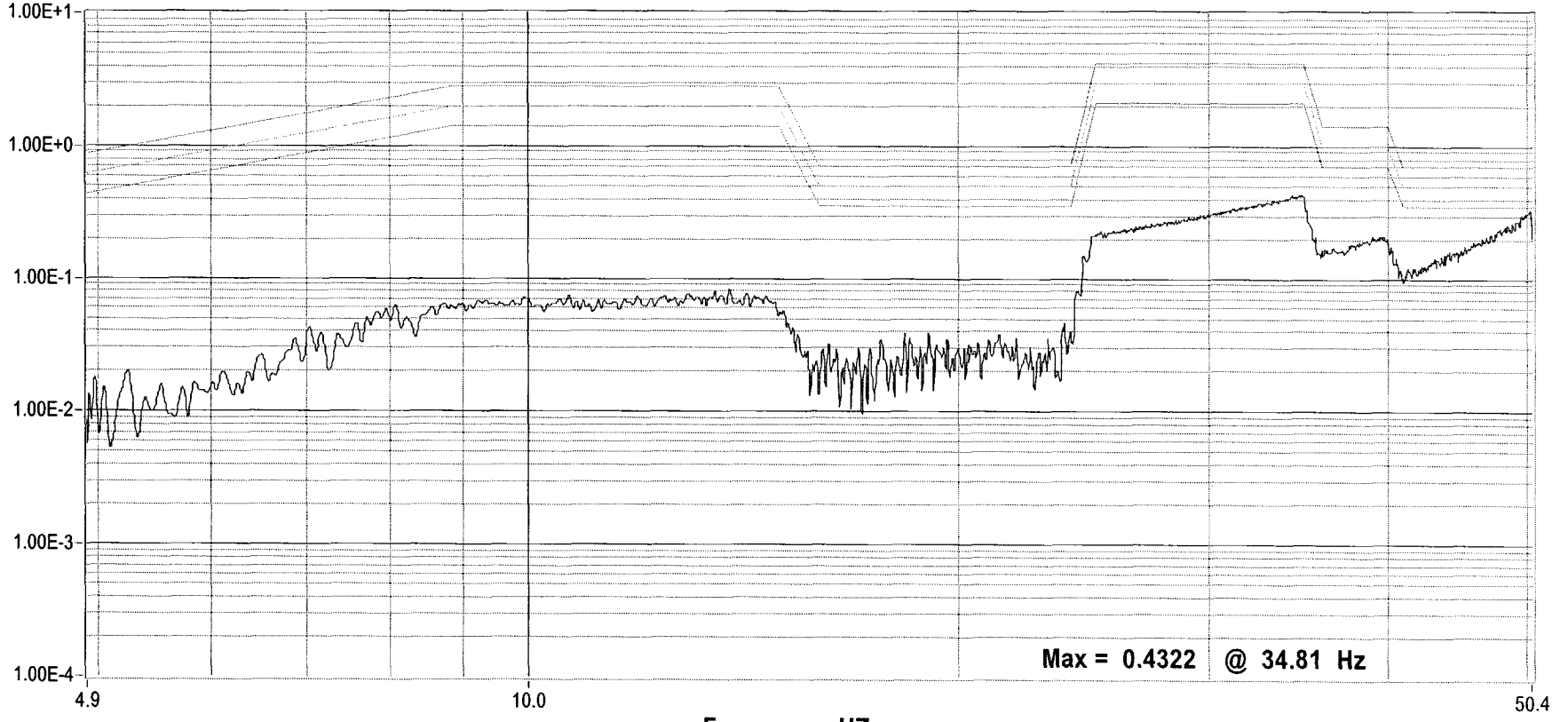
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A4RX: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:55 PM

A4RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

Channel #: 55 **Node Number:** 0055

Channel Description: BOX 4 CH 7 SN=AF56

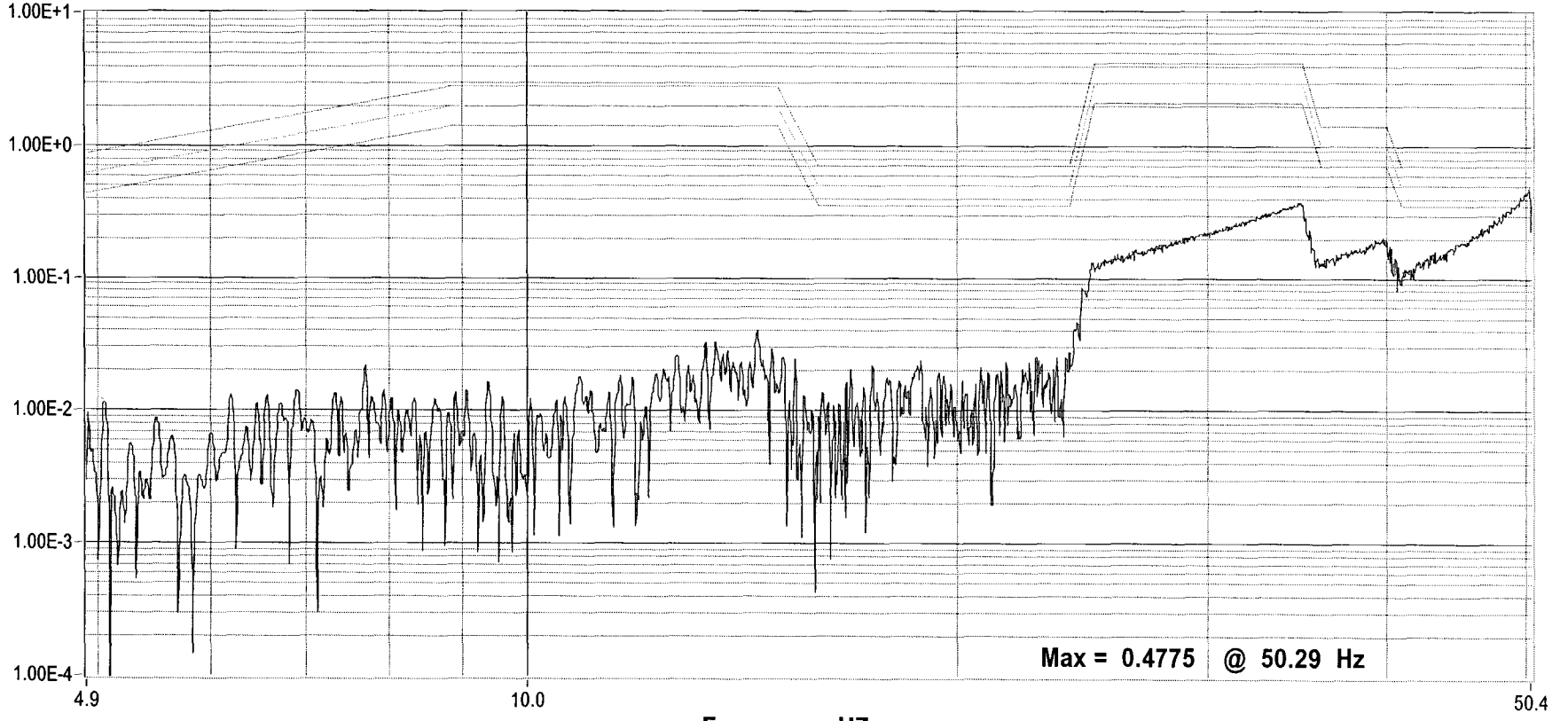
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 13:21:27

A4RY: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:55 PM

A4RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

A4RZ: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

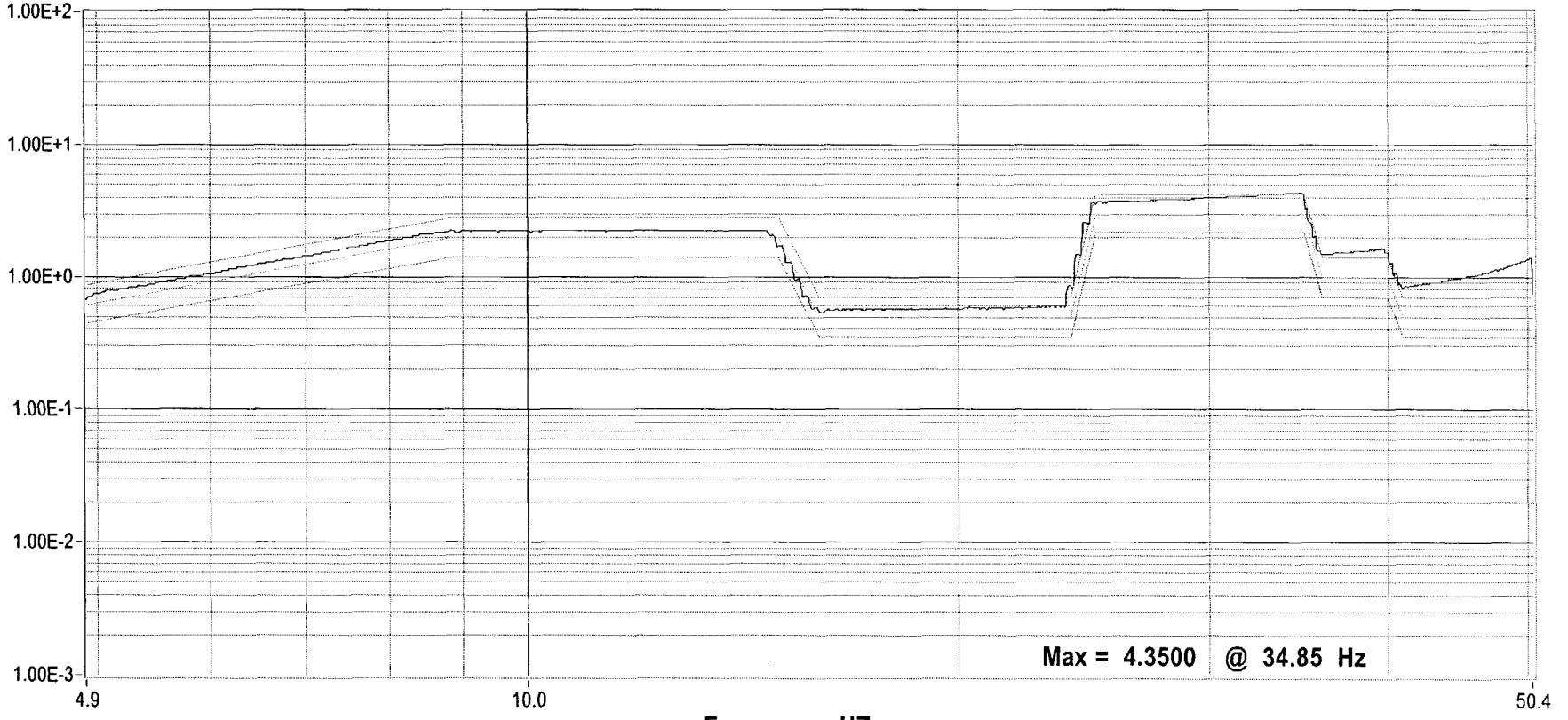
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 56 **Node Number:** 0056

Channel Description: BOX 4 CH 8 SN=AD53

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:50 PM

A4RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 13:21:27

F1: FLY AWAY

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062310

Part Number/ID: Y4011

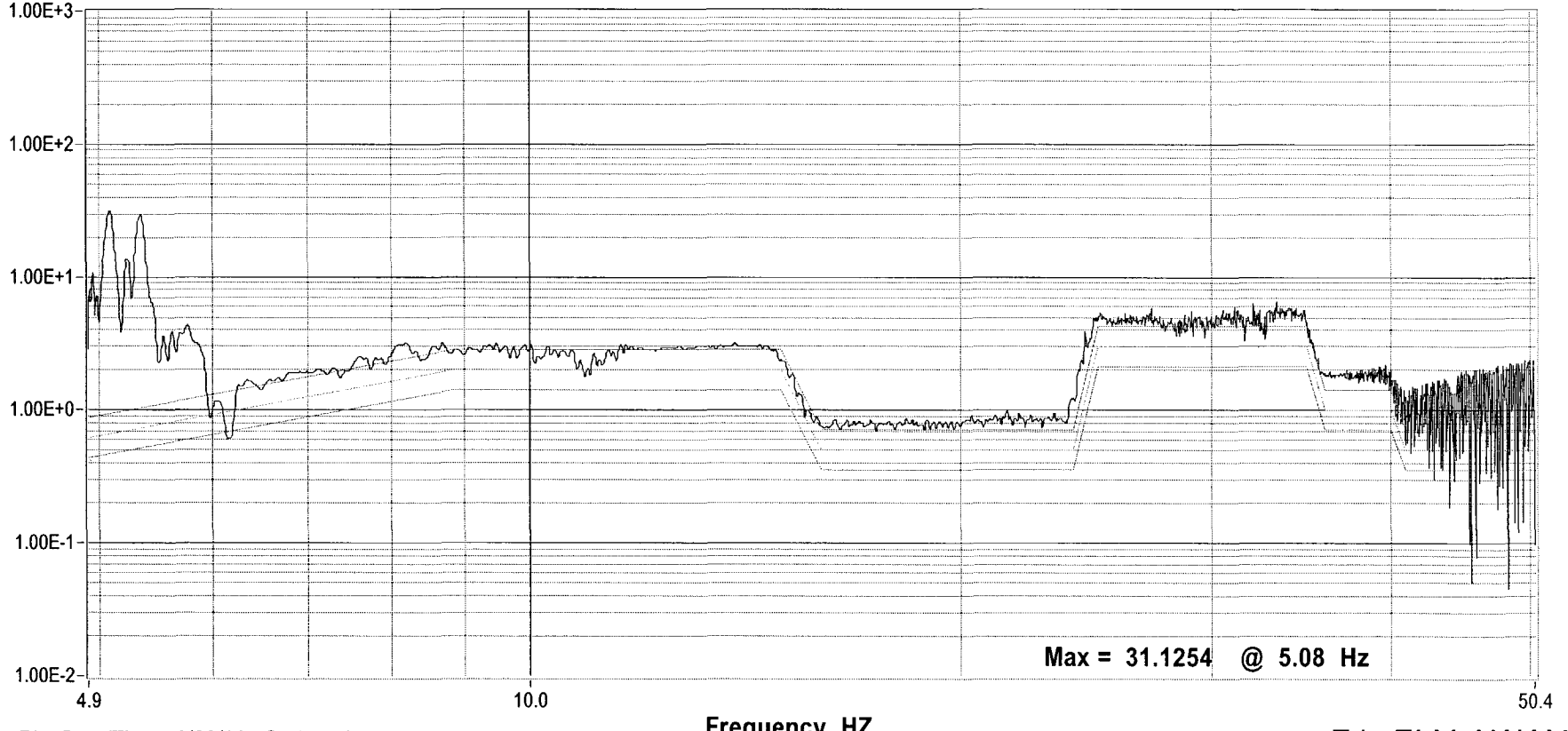
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS Shaped SINE

Channel #: 57 **Node Number:** 0057

Channel Description: BOX 4 CH 9 SN=BF27

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 3:49 PM

F1: FLY AWAY

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

North_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

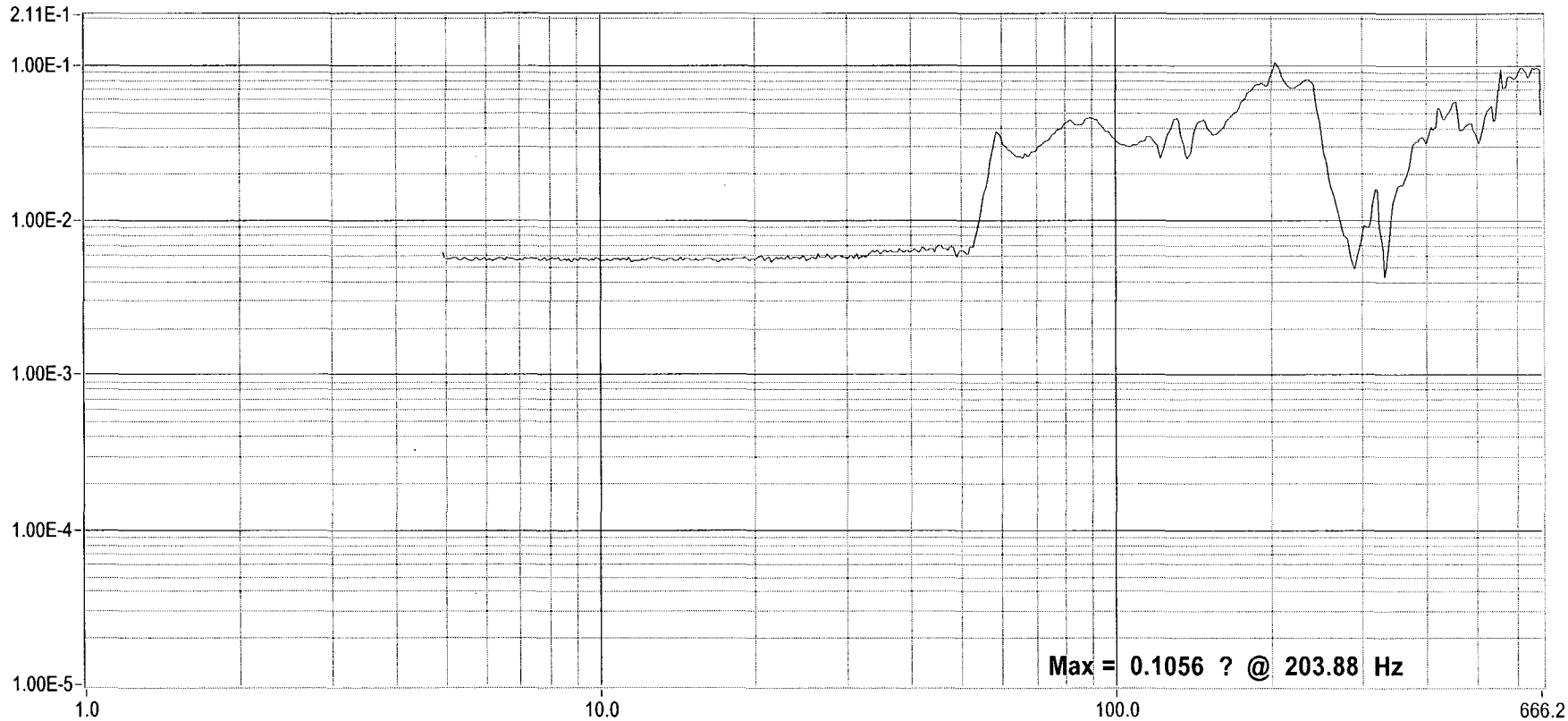
Channel #: 1 **Node Number:** 0001

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:23 PM

Frequency HZ

North_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

North_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

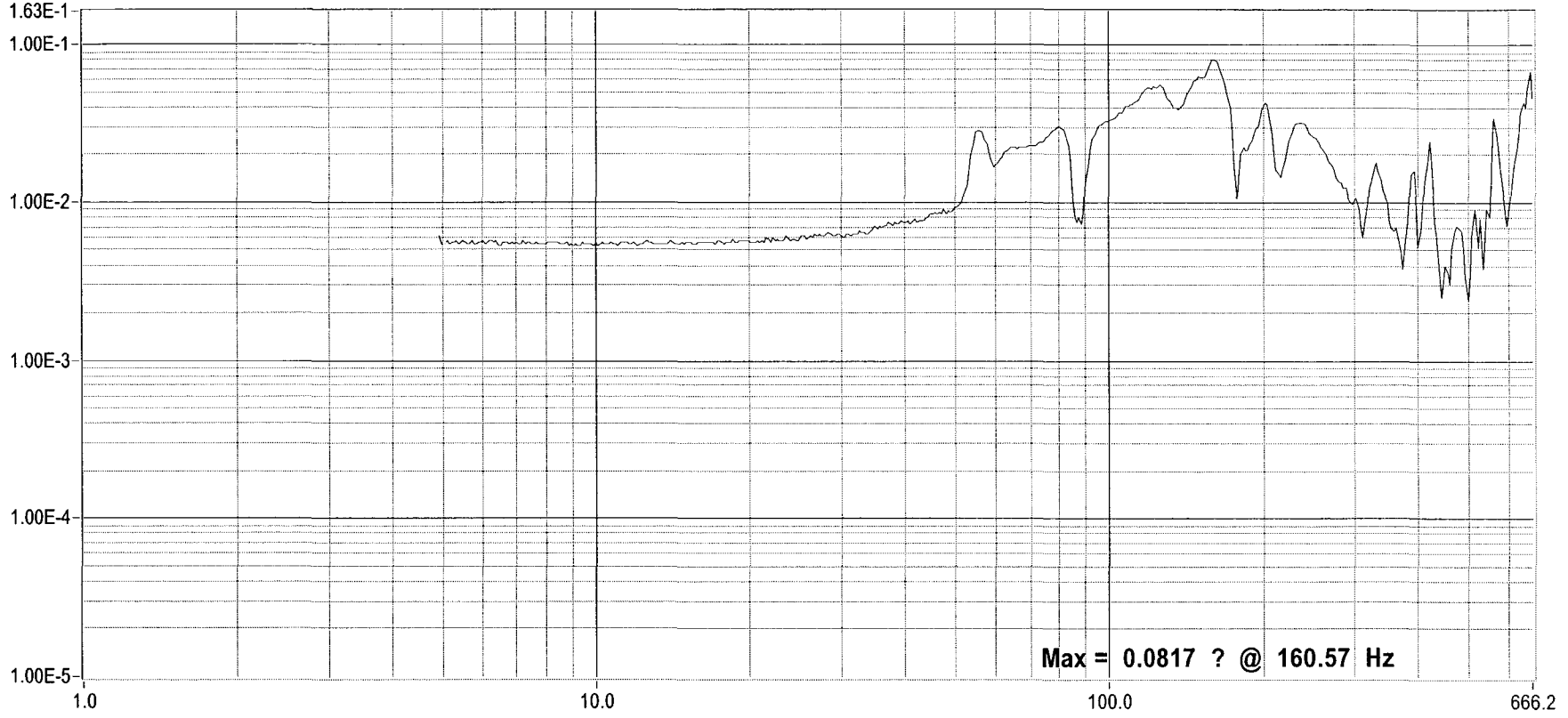
Channel #: 2 **Node Number:** 0002

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:23 PM

Frequency HZ

North_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

North_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

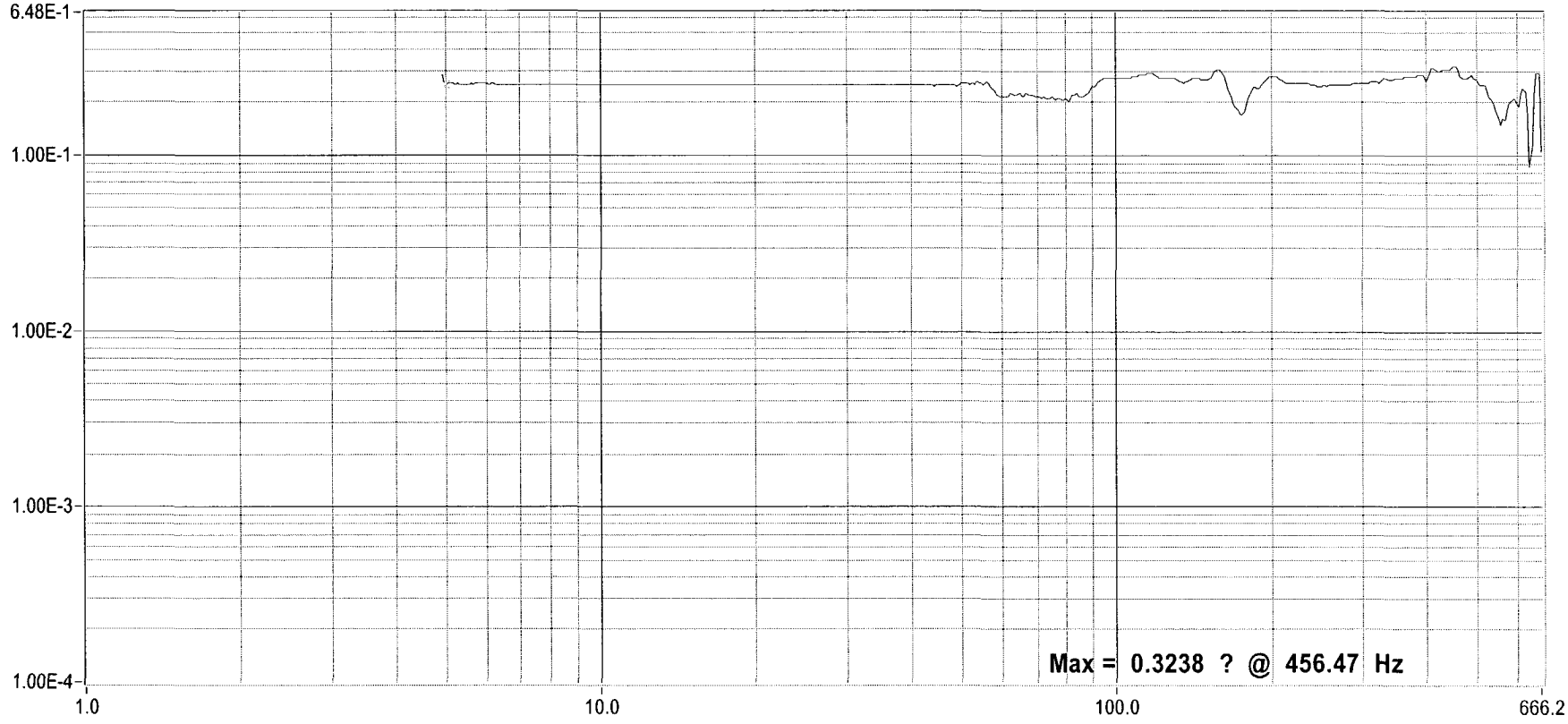
Channel #: 3 **Node Number:** 0003

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:23 PM

Frequency HZ

North_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

South_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

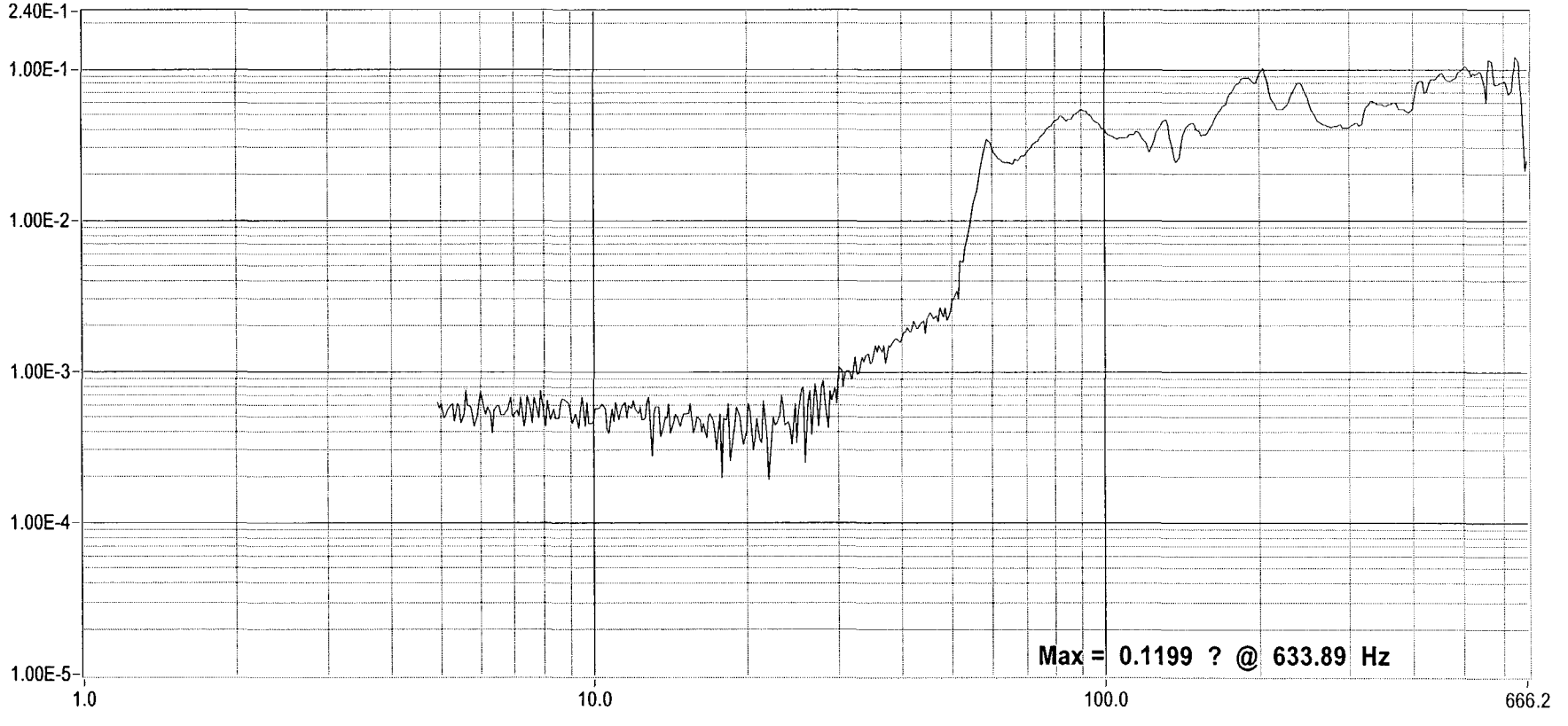
Channel #: 4 **Node Number:** 0004

Channel Description: I

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:23 PM

Frequency HZ

South_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

South_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

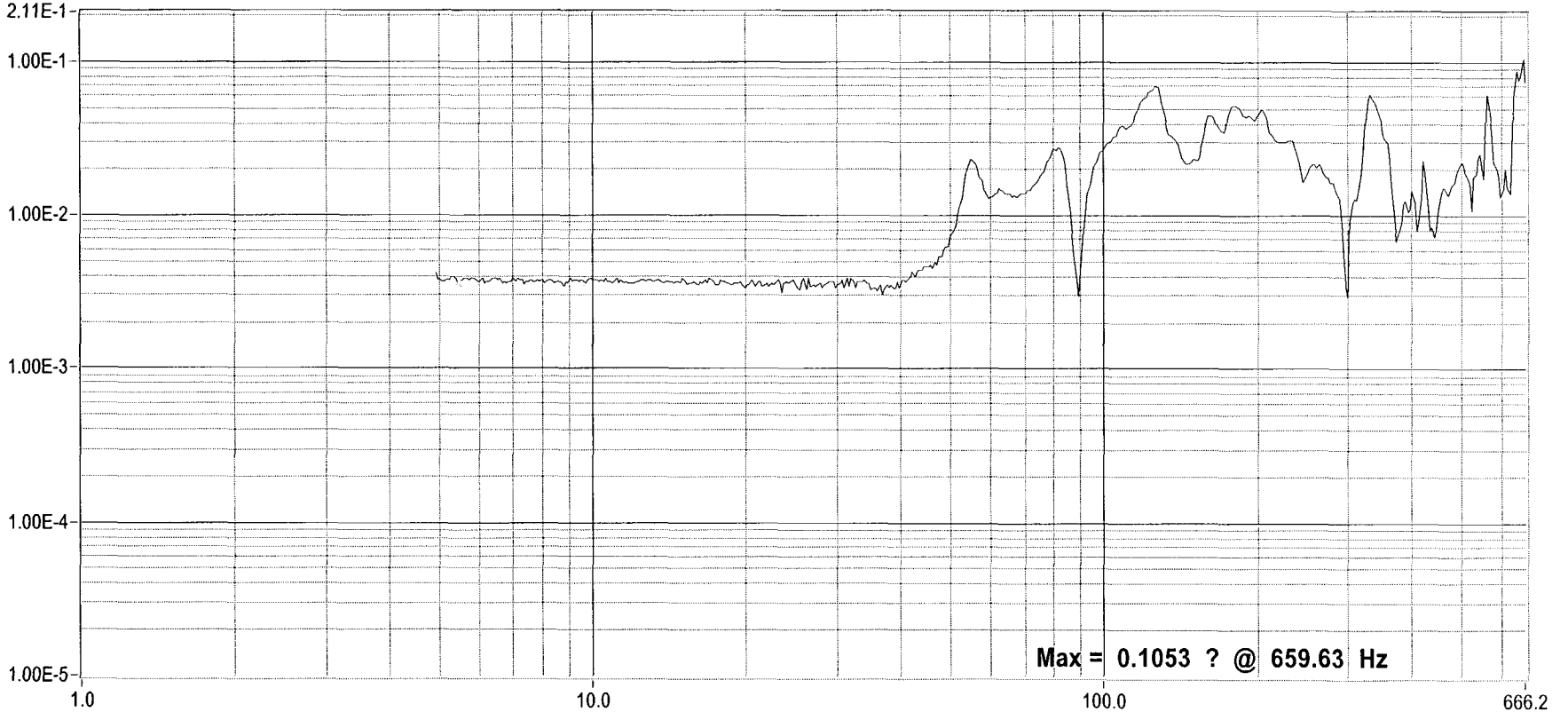
Channel #: 5 **Node Number:** 0005

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:24 PM

Frequency HZ

South_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

South_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

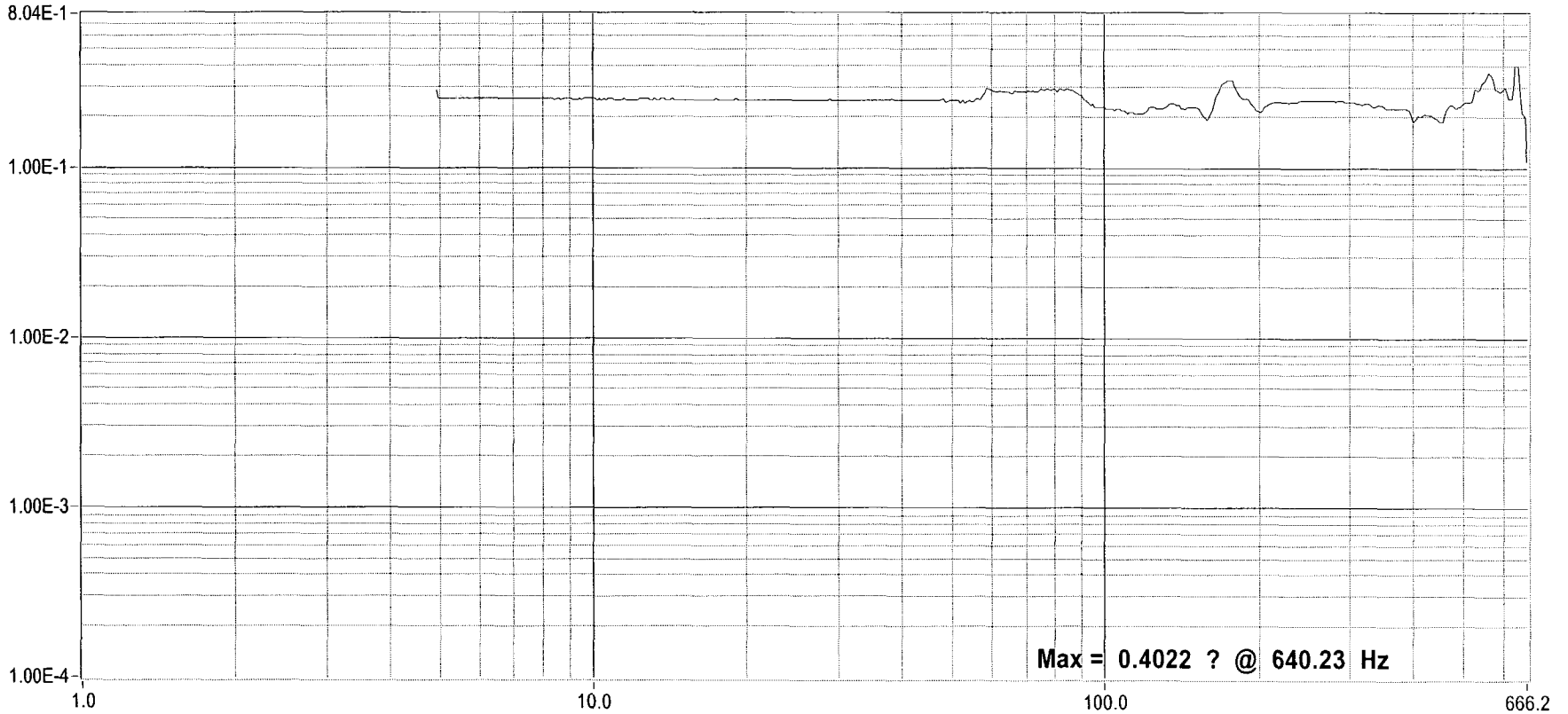
Channel #: 6 **Node Number:** 0006

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:24 PM

Frequency HZ

South_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A5 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

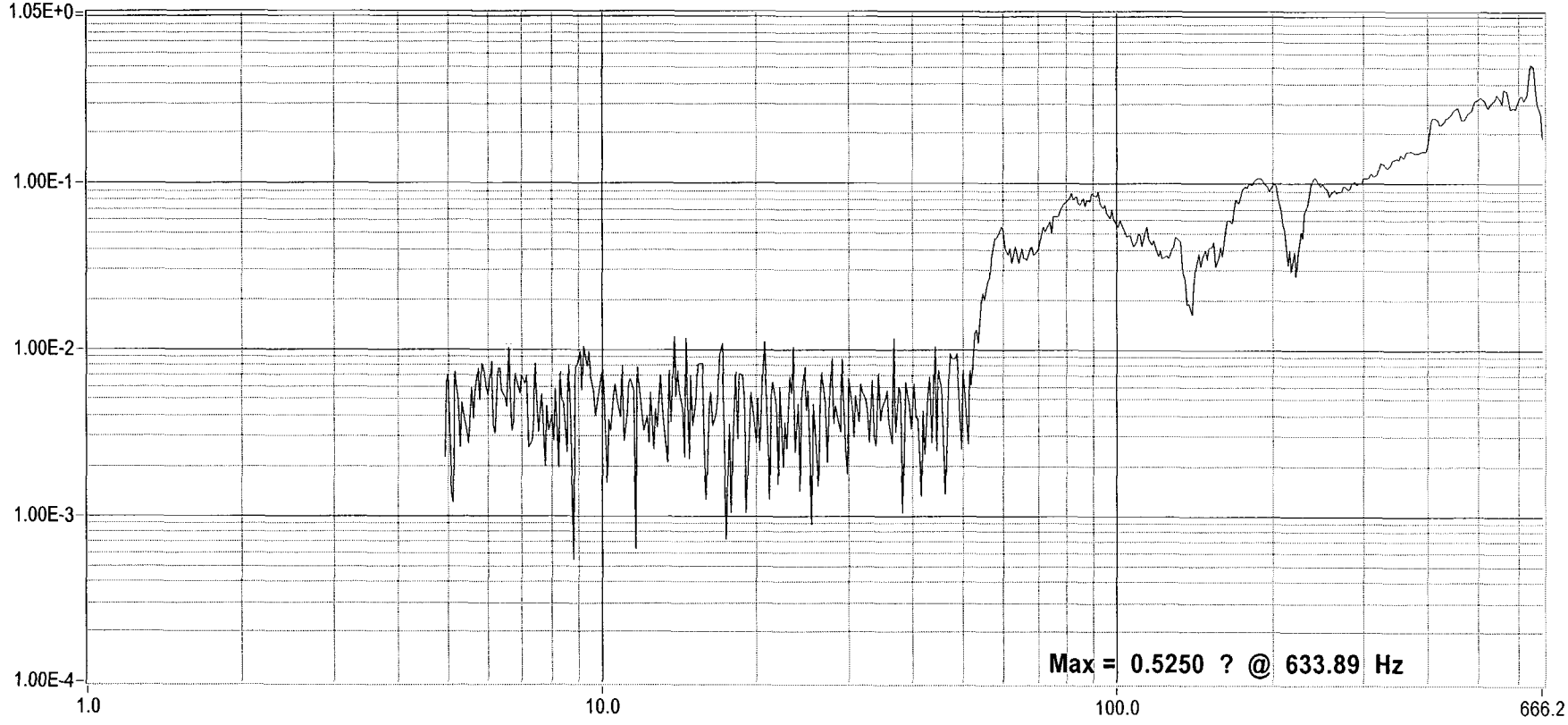
Channel #: 7 **Node Number:** 0007

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:24 PM

Frequency HZ

A5 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A5 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

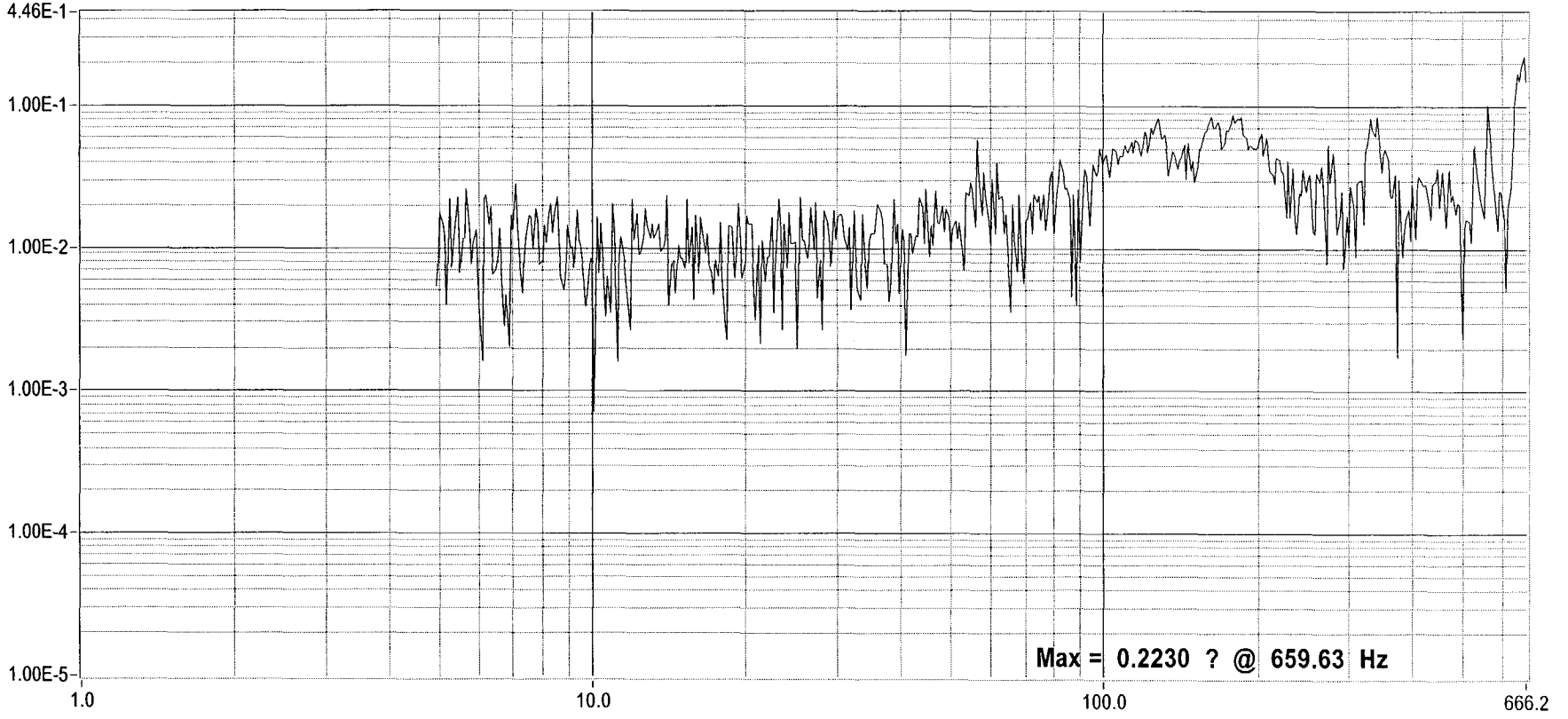
Channel #: 8 **Node Number:** 0008

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:24 PM

Frequency HZ

A5 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A5 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

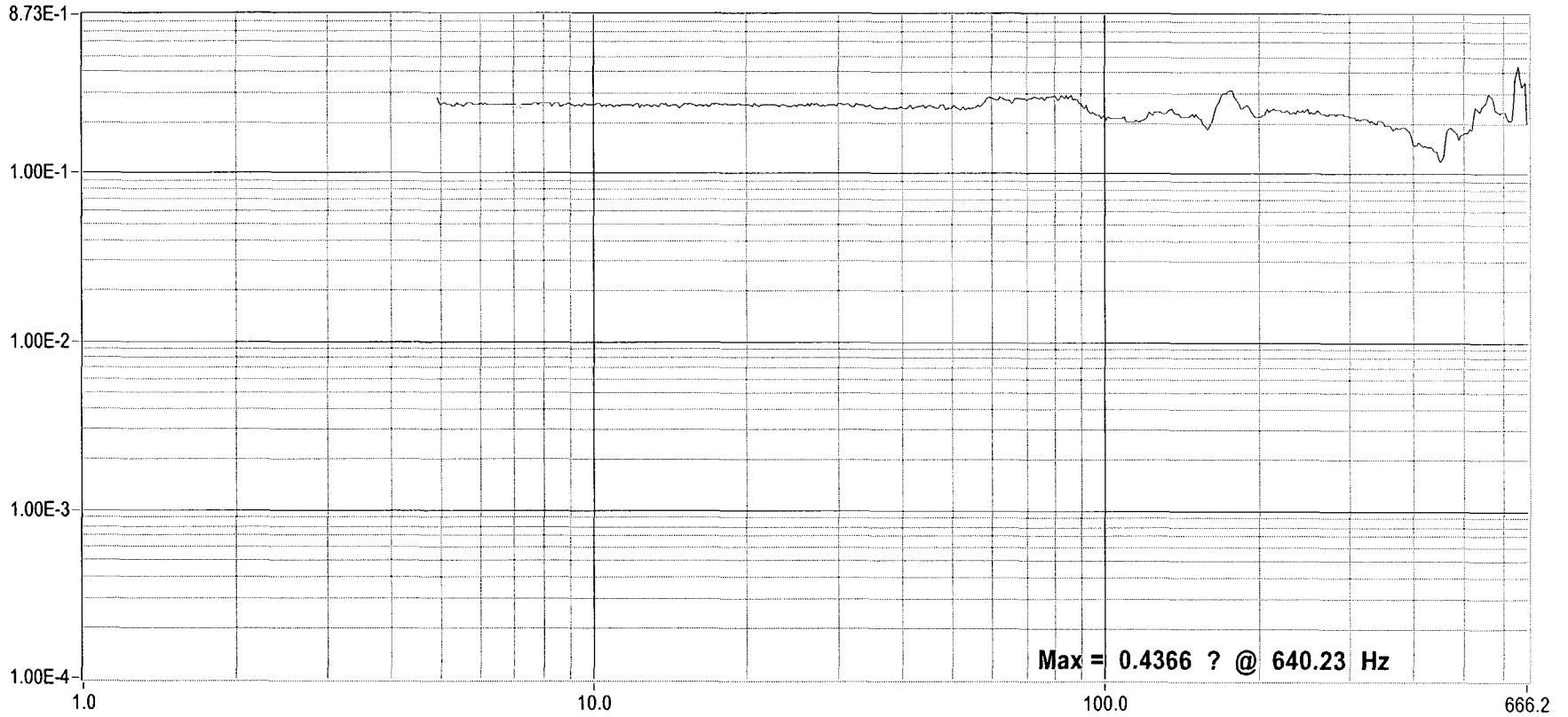
Channel #: 9 **Node Number:** 0009

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:25 PM

A5 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A6 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

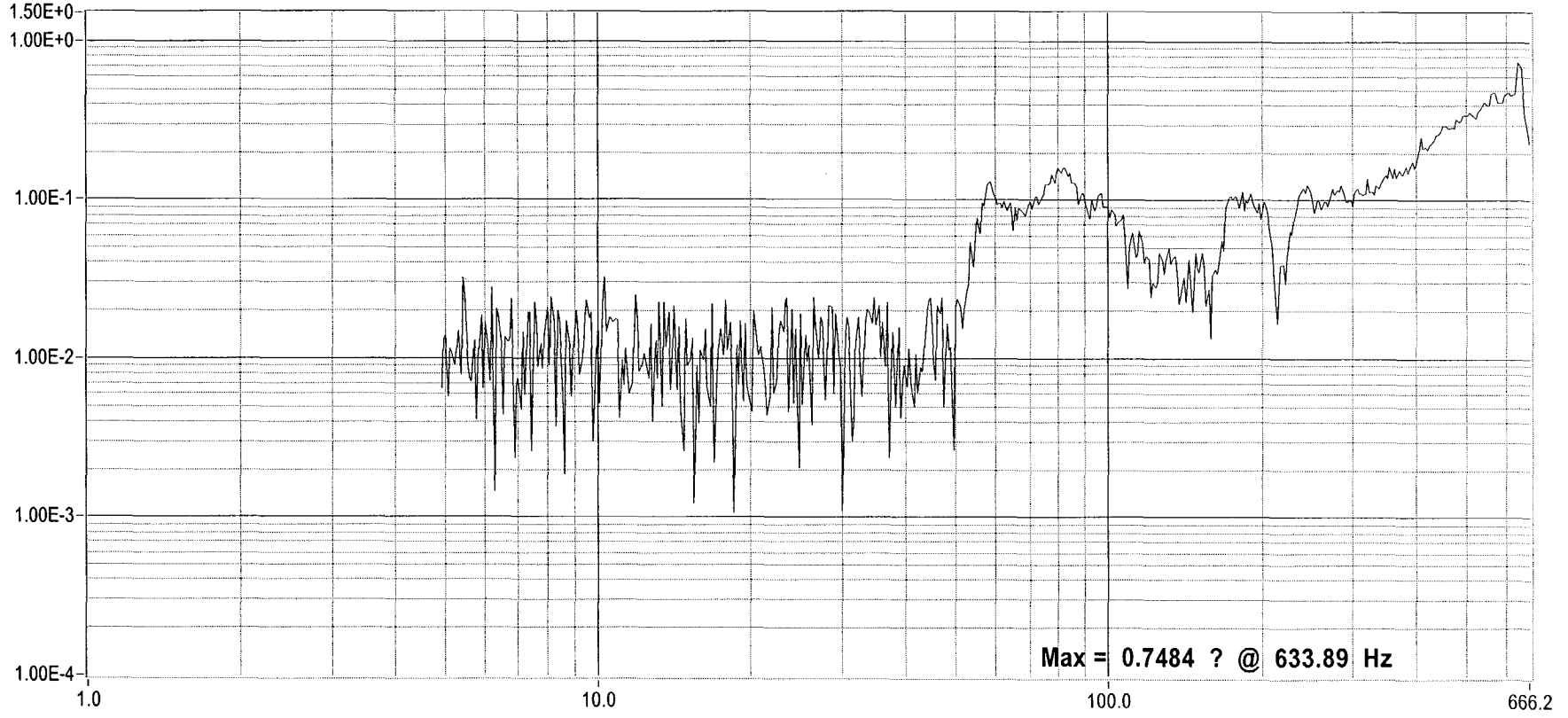
Channel #: 10 **Node Number:** 0010

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:25 PM

Frequency HZ

A6 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A6 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

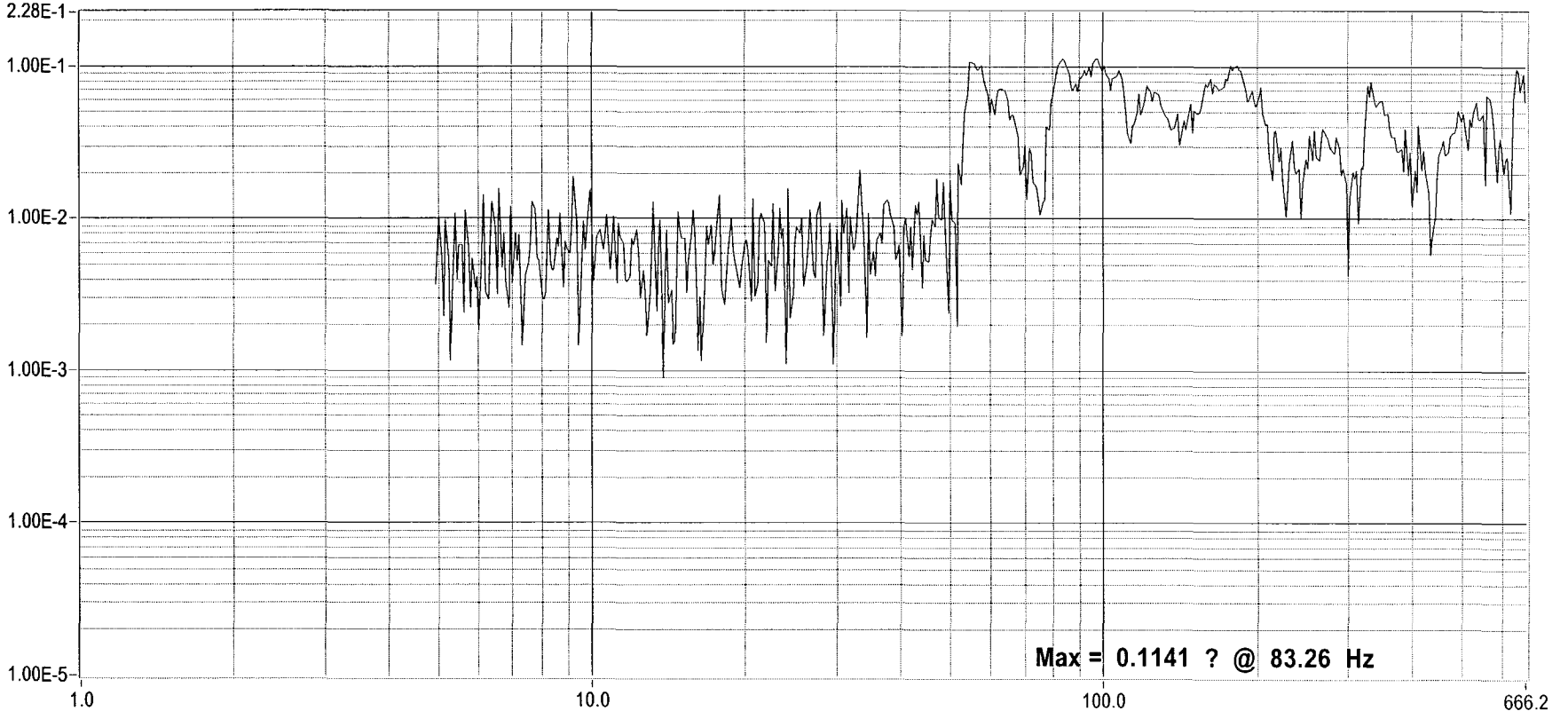
Channel #: 11 **Node Number:** 0011

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:25 PM

Frequency HZ

A6 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A6 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

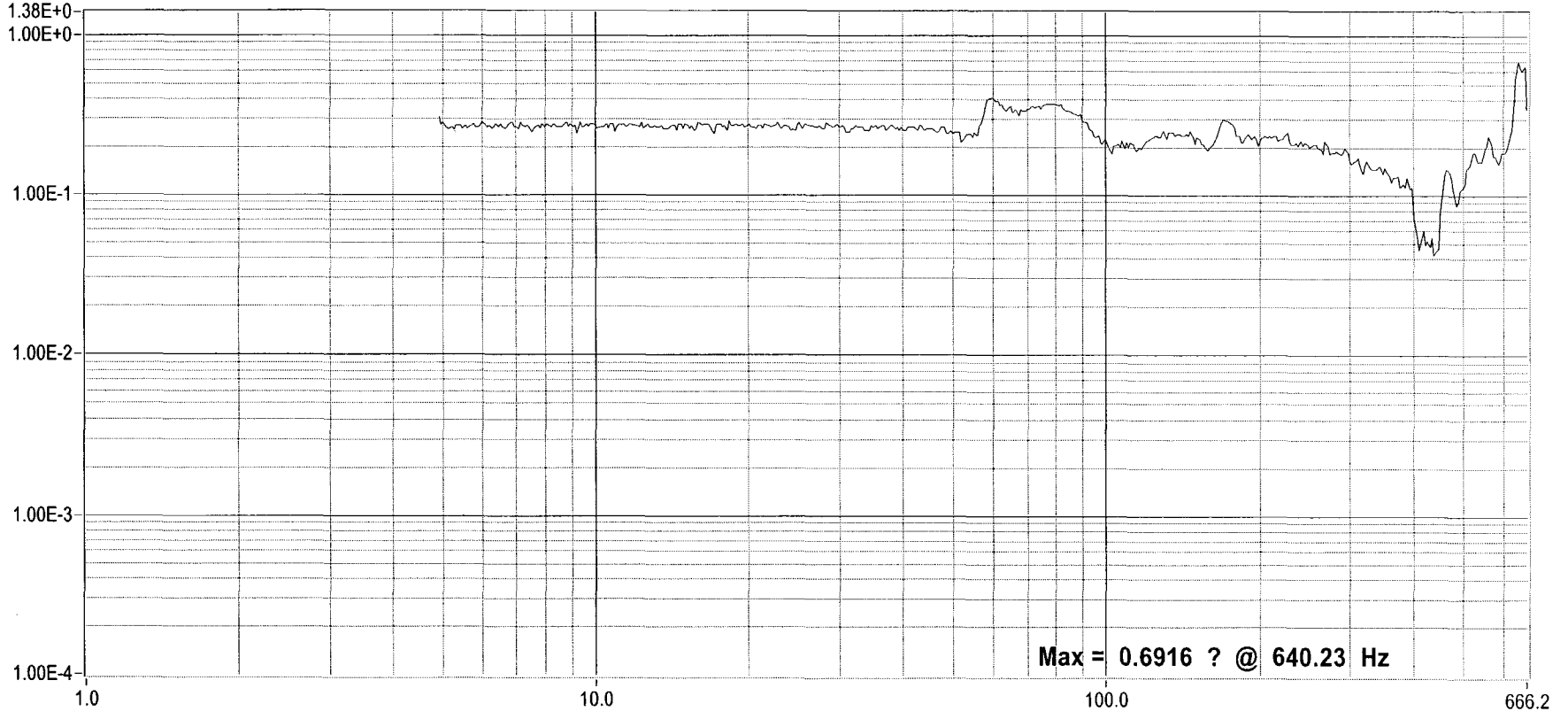
Channel #: 12 **Node Number:** 0012

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:25 PM

Frequency HZ

A6 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A7 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

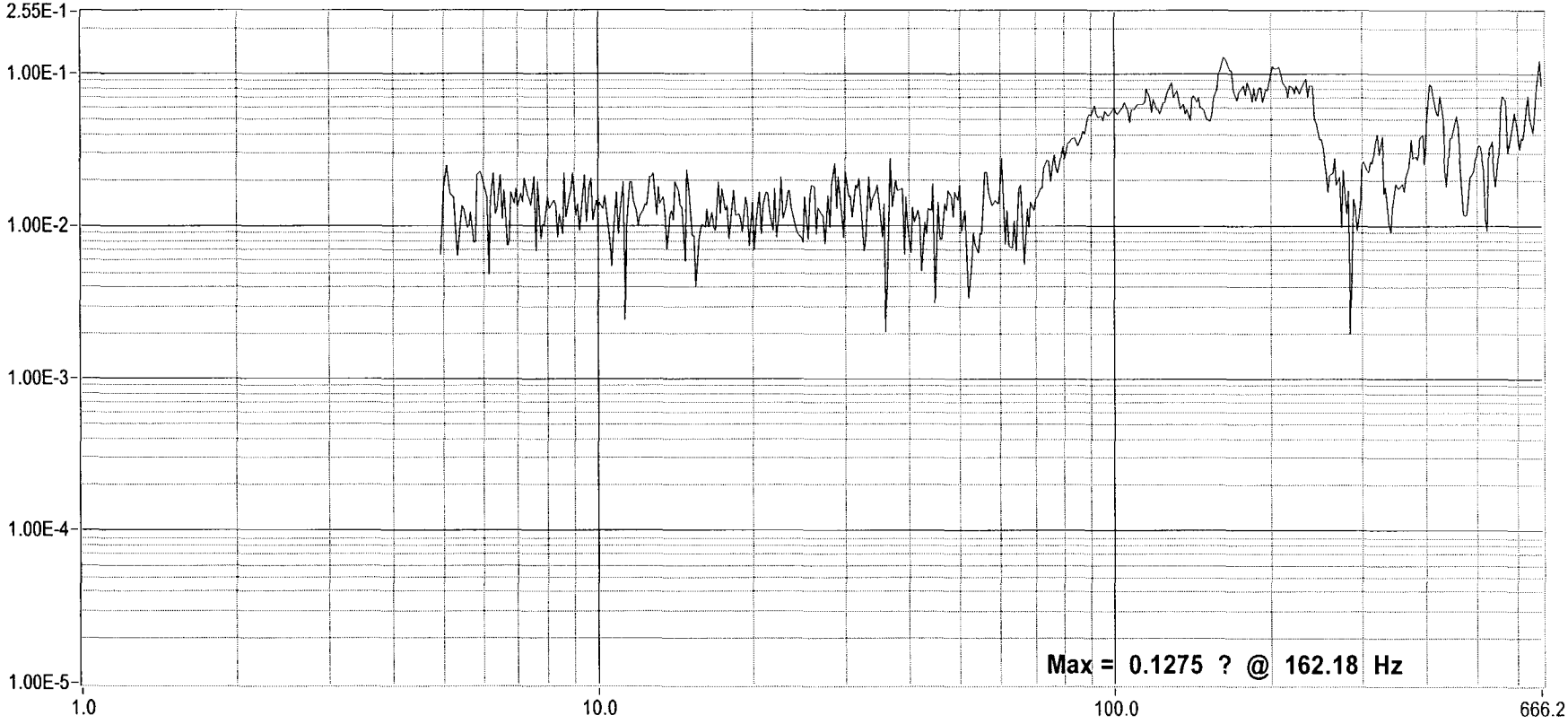
Channel #: 17 **Node Number:** 0017

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:26 PM

Frequency HZ

A7 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A7 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

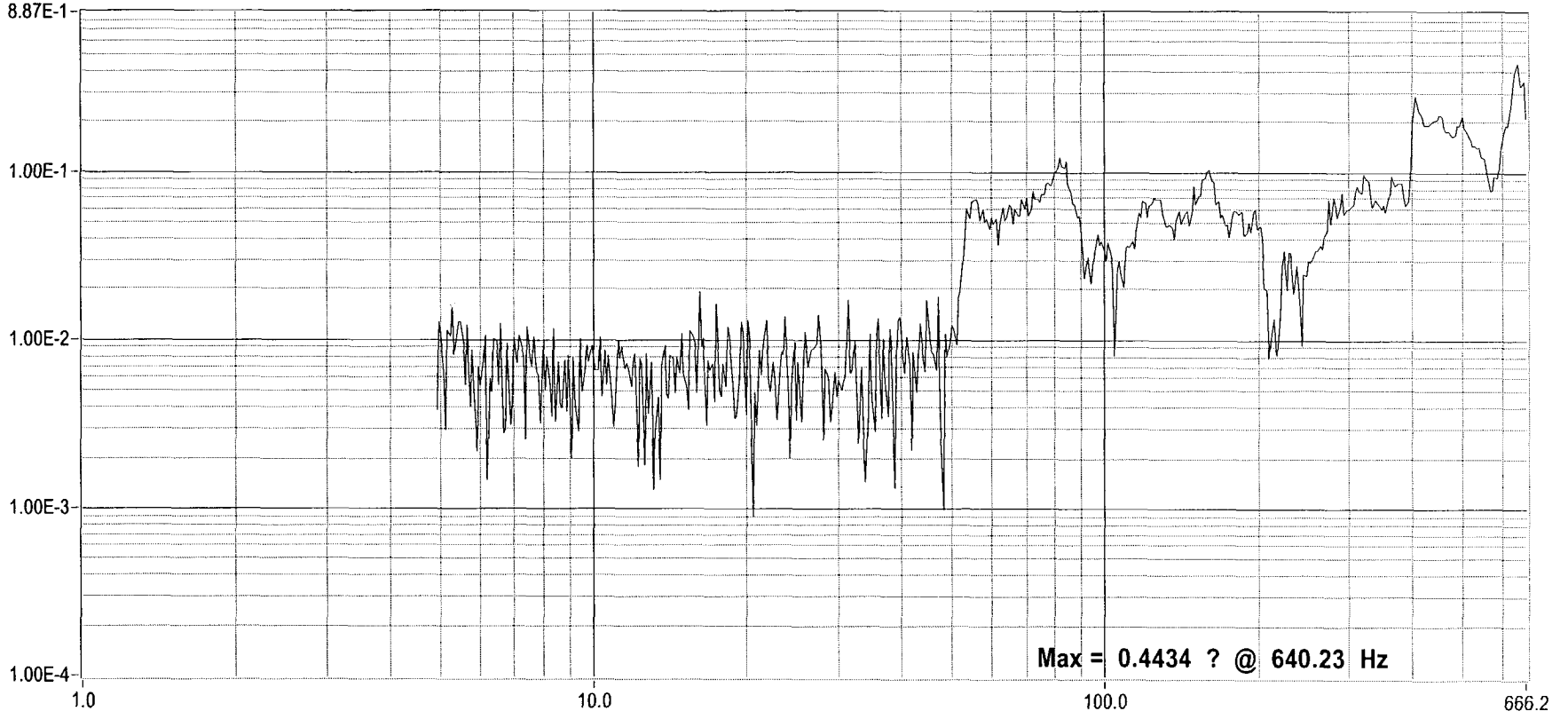
Channel #: 18 **Node Number:** 0018

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:26 PM

Frequency HZ

A7 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A7 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

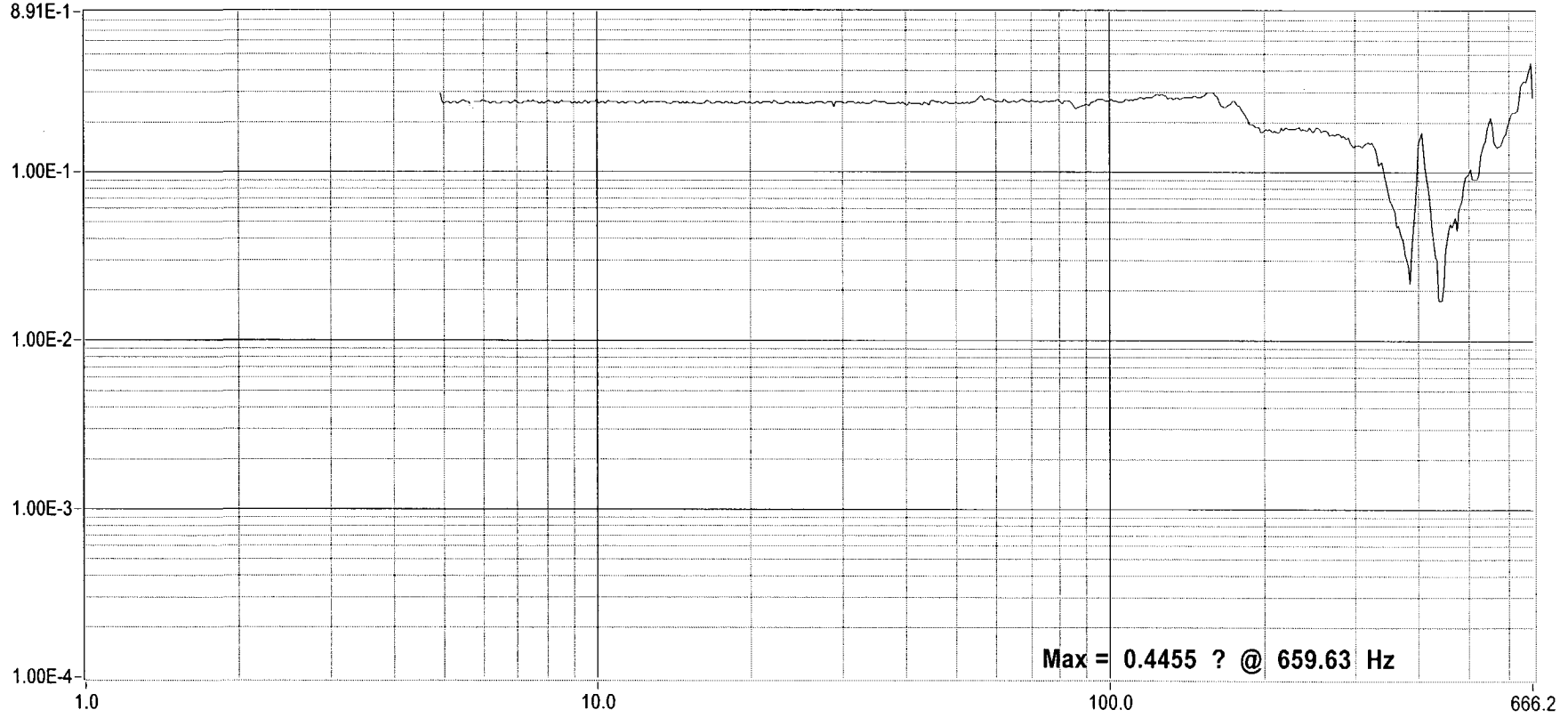
Channel #: 19 **Node Number:** 0019

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:26 PM

Frequency HZ

A7 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A8 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

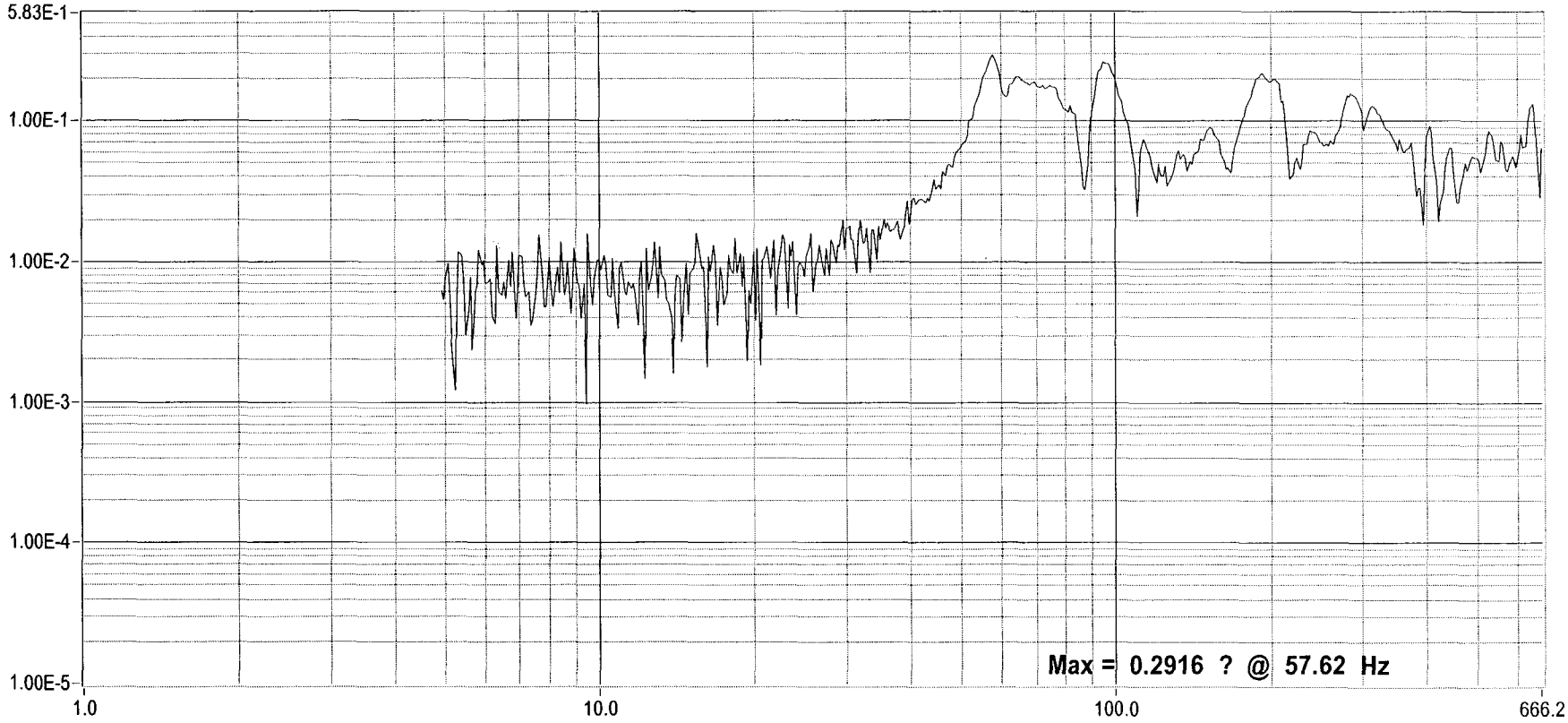
Channel #: 20 **Node Number:** 0020

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:26 PM

Frequency HZ

A8 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A8 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

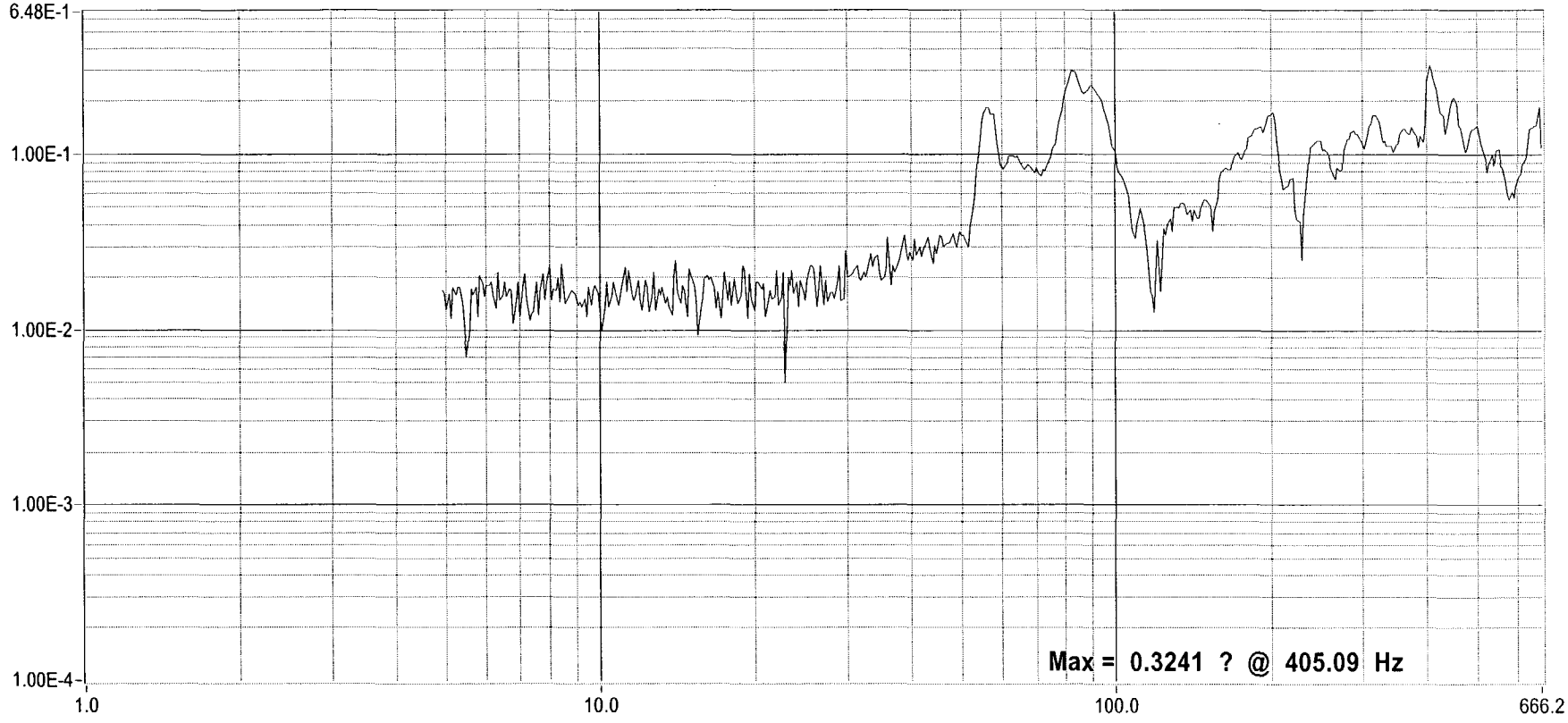
Channel #: 21 **Node Number:** 0021

Channel Description: 0.01034

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:27 PM

Frequency HZ

A8 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A8 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

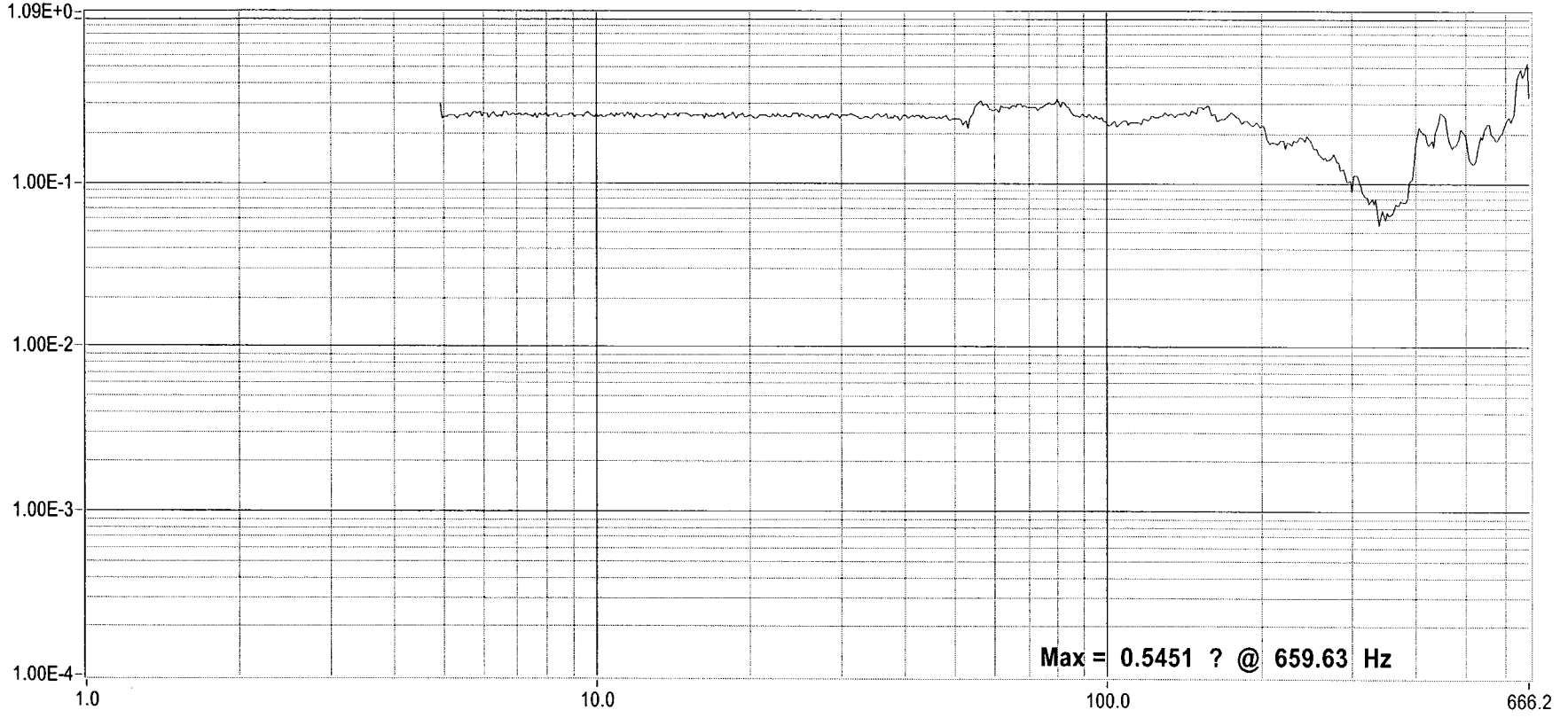
Channel #: 22 **Node Number:** 0022

Channel Description: 0.01029

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:27 PM

Frequency HZ

A8 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A9 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

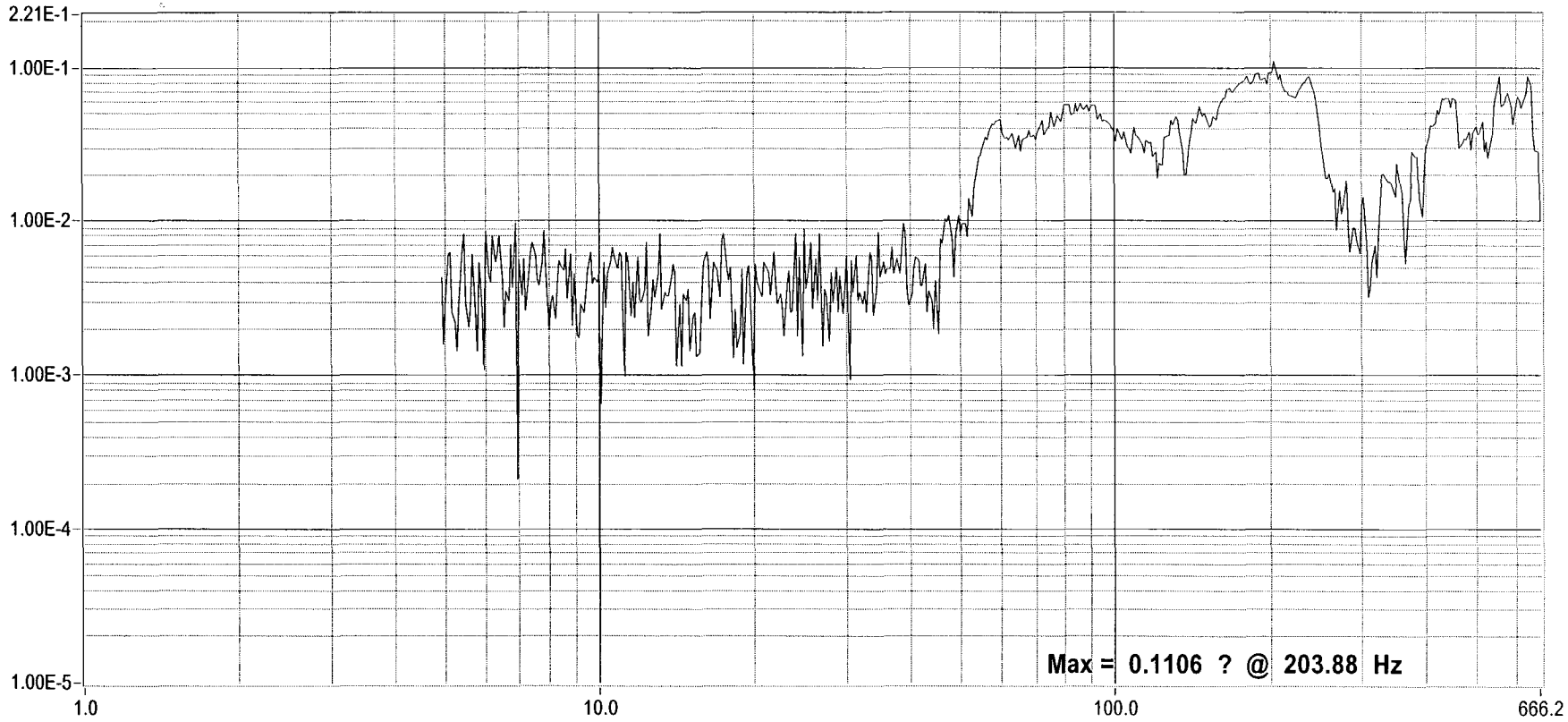
Channel #: 23 **Node Number:** 0023

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:27 PM

Frequency HZ

A9 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A9 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

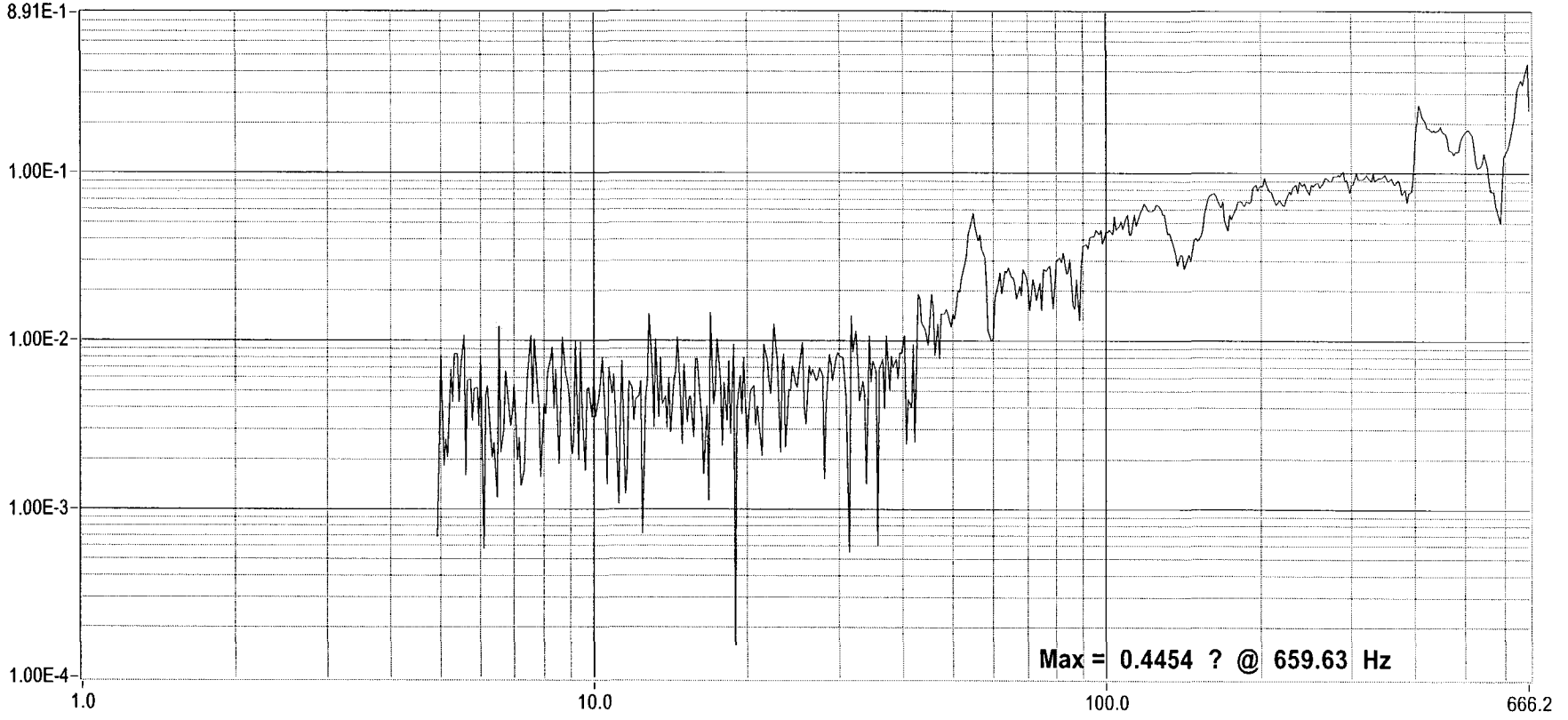
Channel #: 24 Node Number: 0024

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:27 PM

Frequency HZ

A9 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A9 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

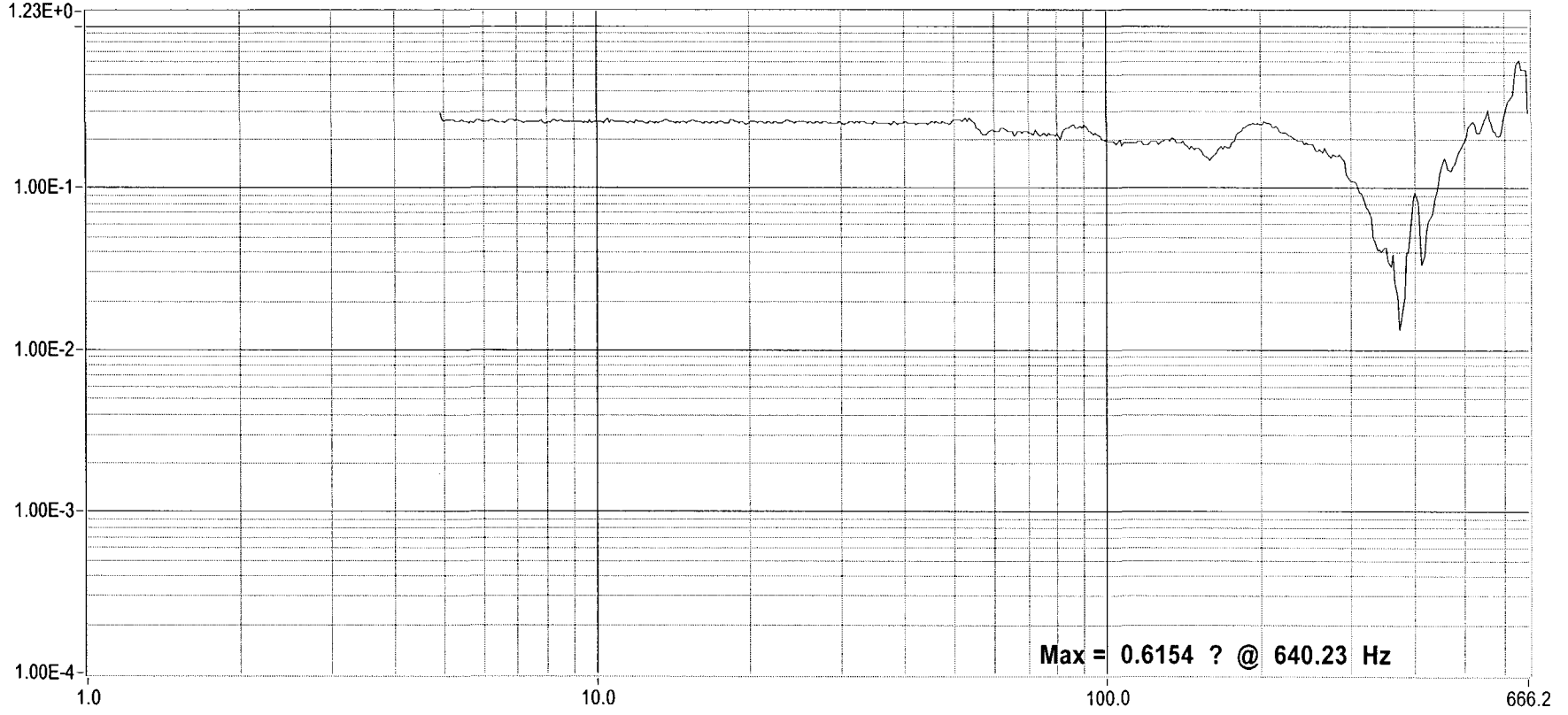
Channel #: 25 **Node Number:** 0025

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:28 PM

Frequency HZ

A9 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A10 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

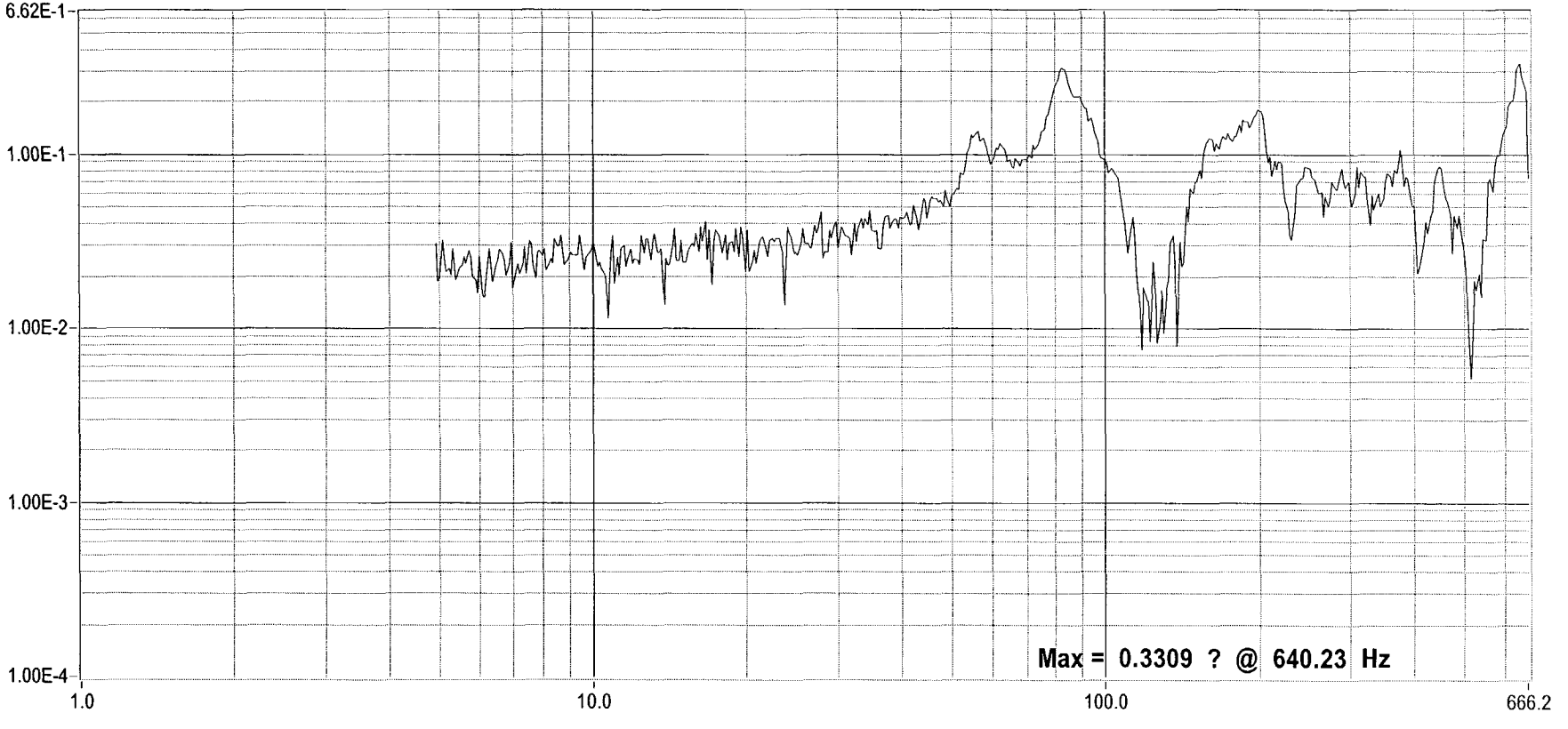
Channel #: 26 Node Number: 0026

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:28 PM

Frequency HZ

A10 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A10 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

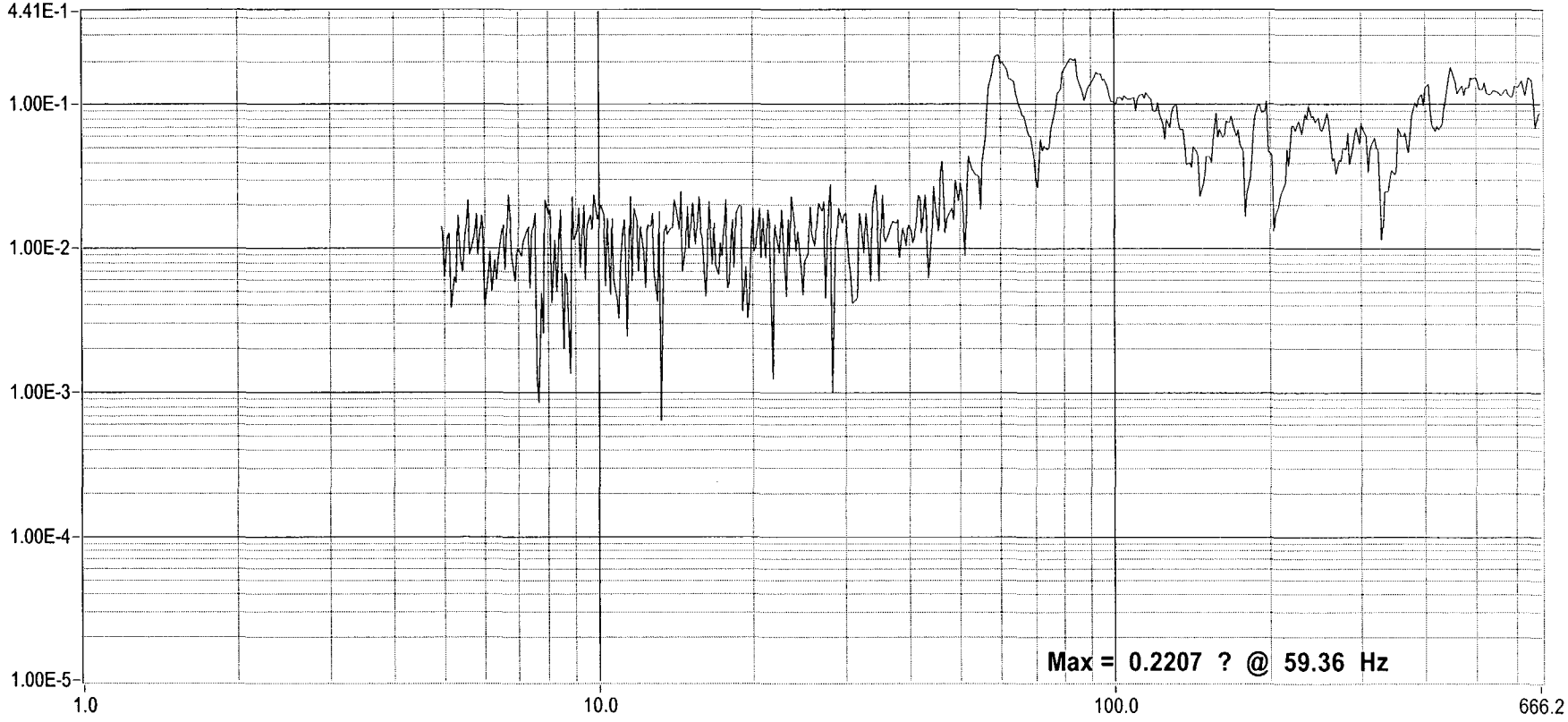
Channel #: 27 **Node Number:** 0027

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:28 PM

Frequency HZ

A10 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A10 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

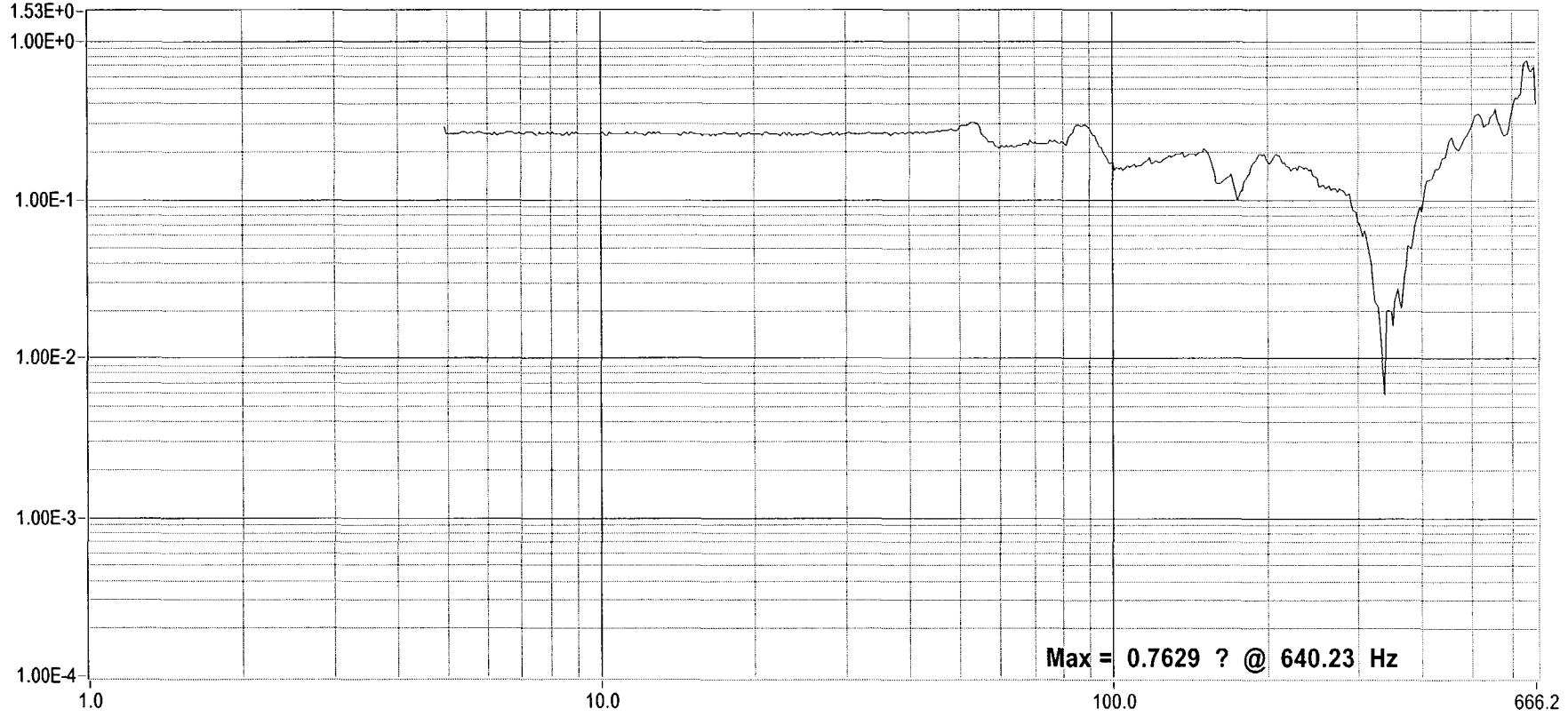
Channel #: 28 **Node Number:** 0028

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:28 PM

Frequency HZ

A10 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

DRIVE

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

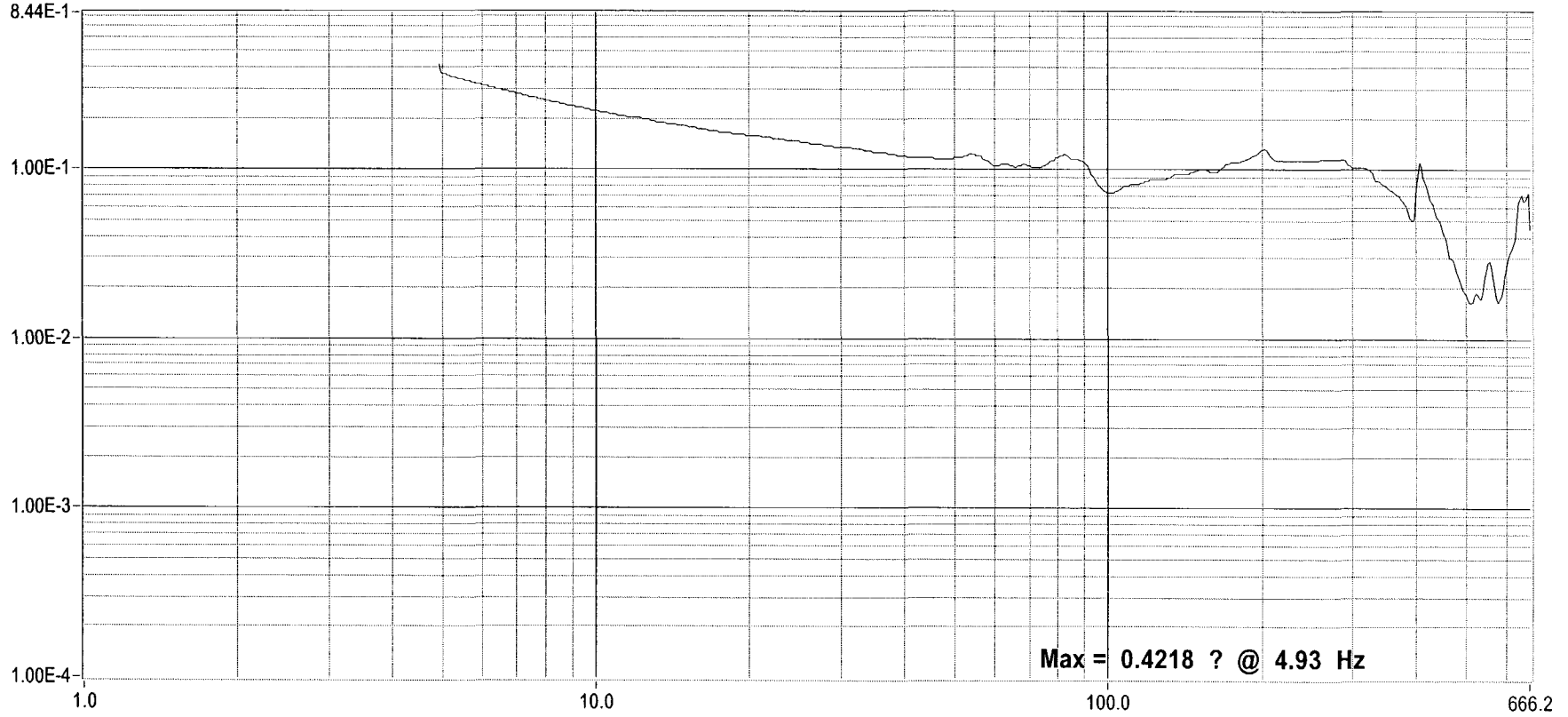
Channel #: 31 **Node Number:** 0031

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:29 PM

Frequency HZ

DRIVE

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

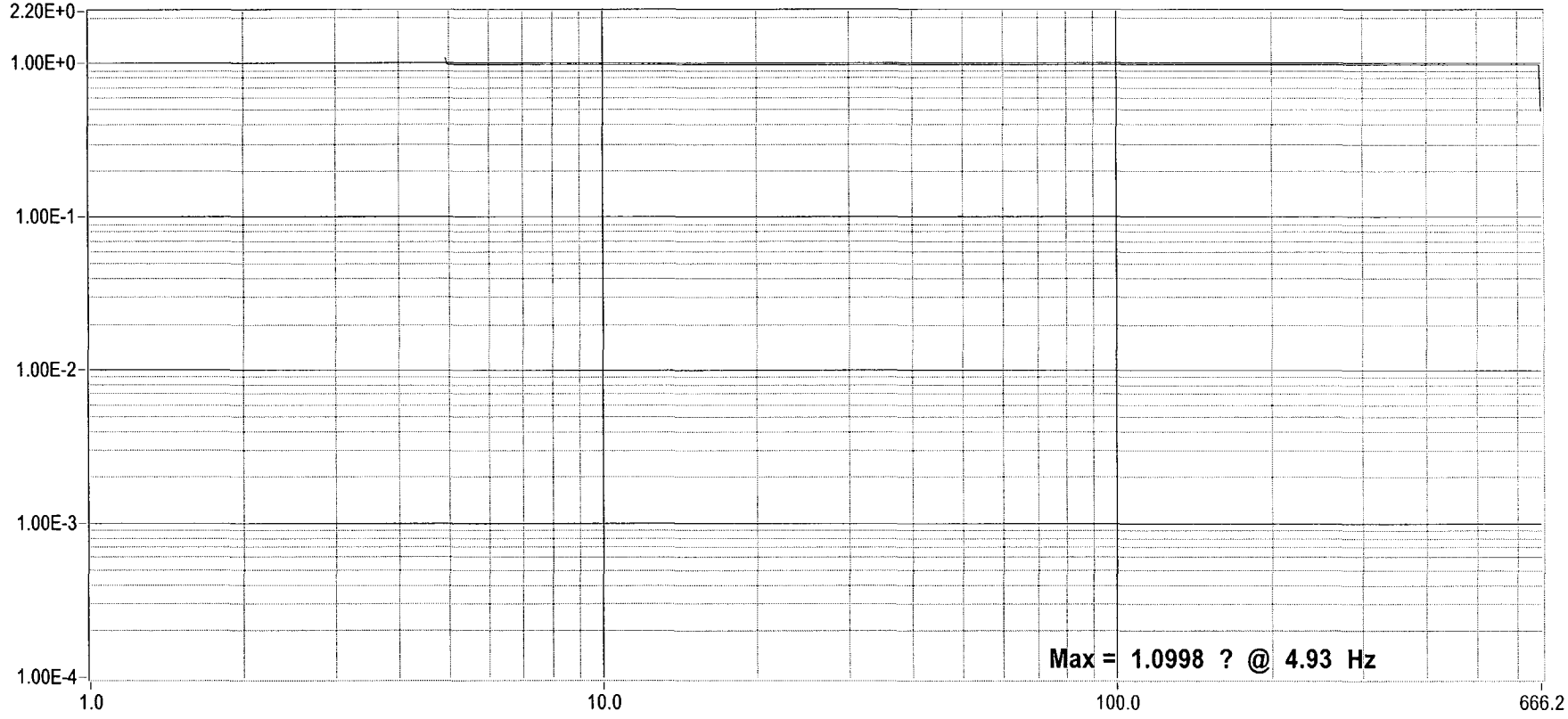
Channel #: 32 **Node Number:** 0032

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:29 PM

Frequency HZ

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A1X: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

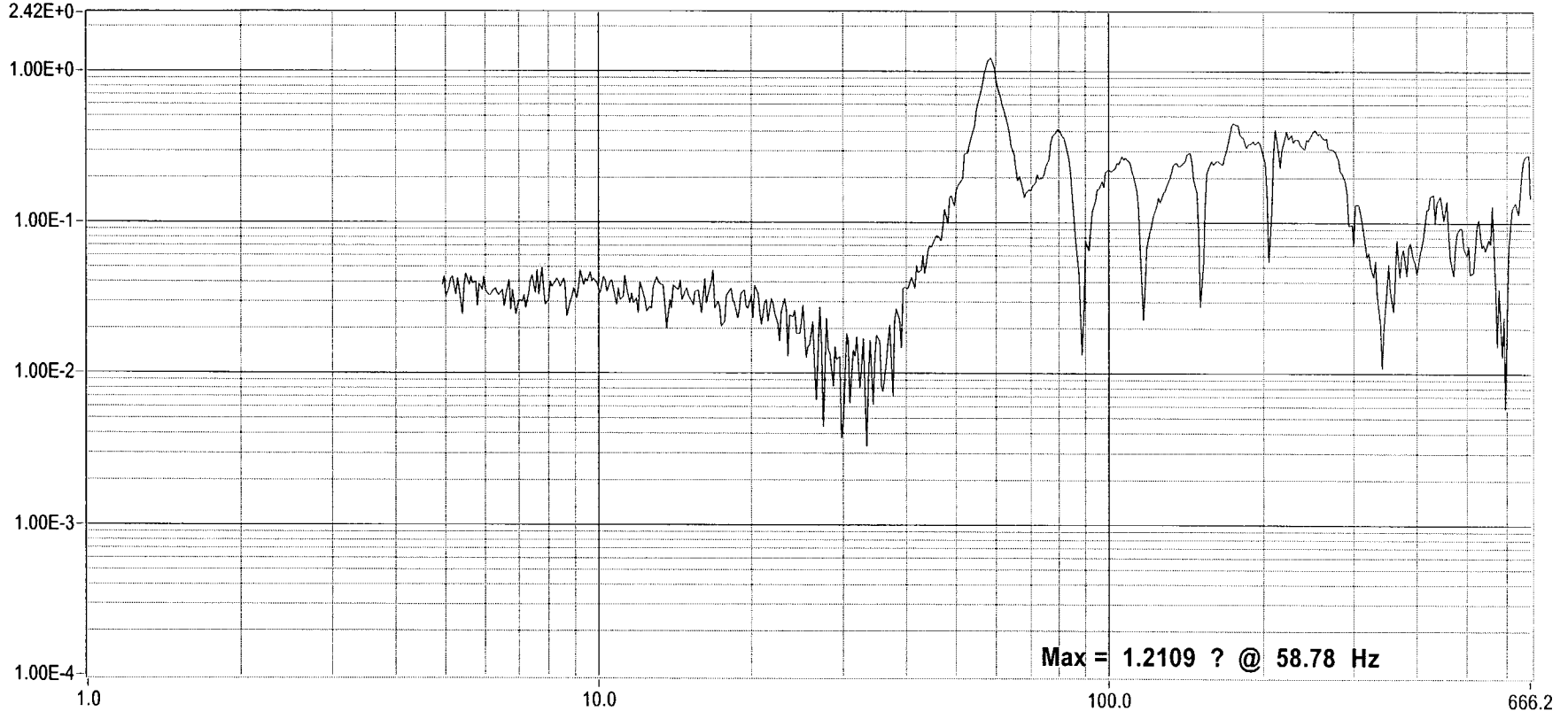
Channel #: 33 **Node Number:** 0033

Channel Description: BOX 3 CH 1 SN=AE71-1

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:29 PM

Frequency HZ

A1X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 34 **Node Number:** 0034

Channel Description: BOX 3 CH 2 SN=AC40

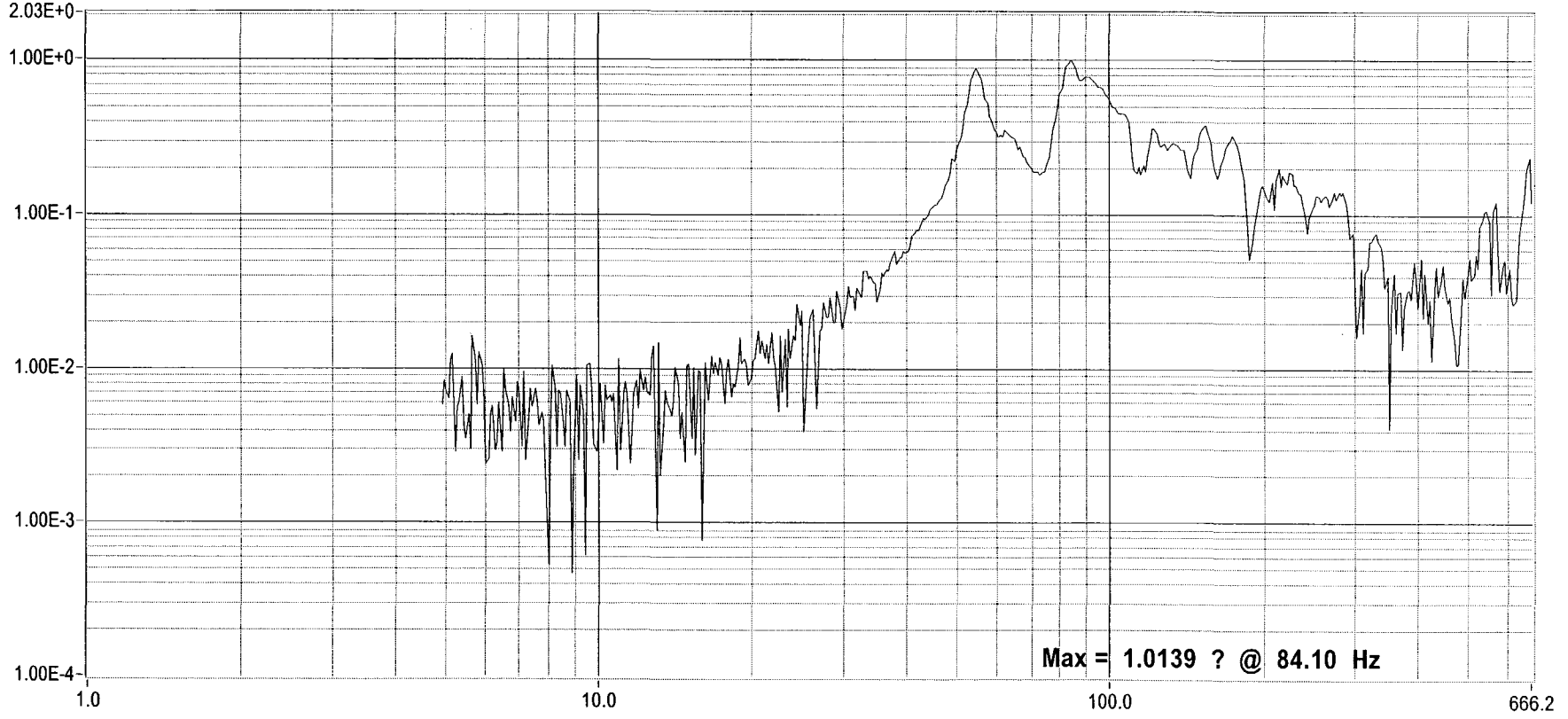
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A1Y: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:29 PM

Frequency HZ

A1Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A1Z: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

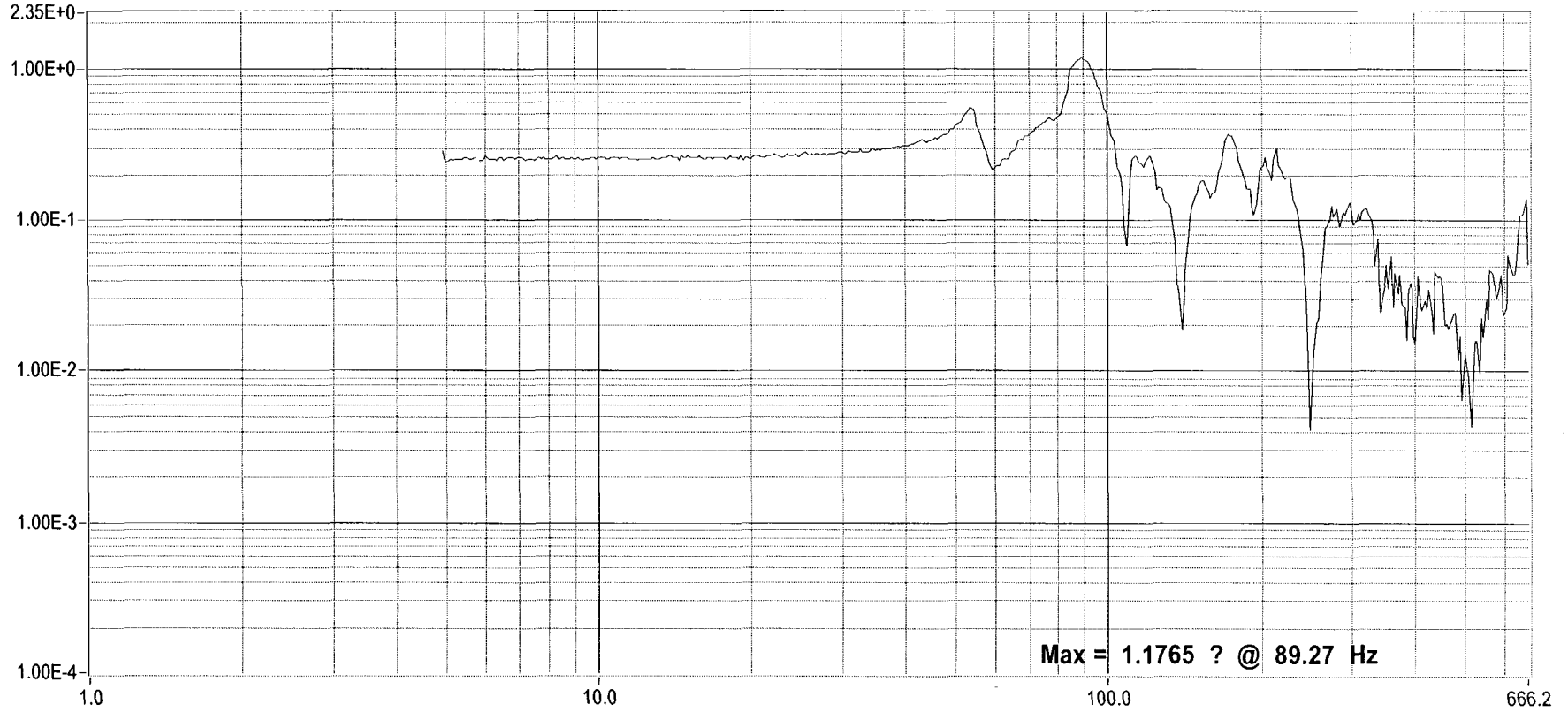
Channel #: 35 **Node Number:** 0035

Channel Description: BOX 3 CH 3 SN=AD72

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:30 PM

Frequency HZ

A1Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A1RX: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

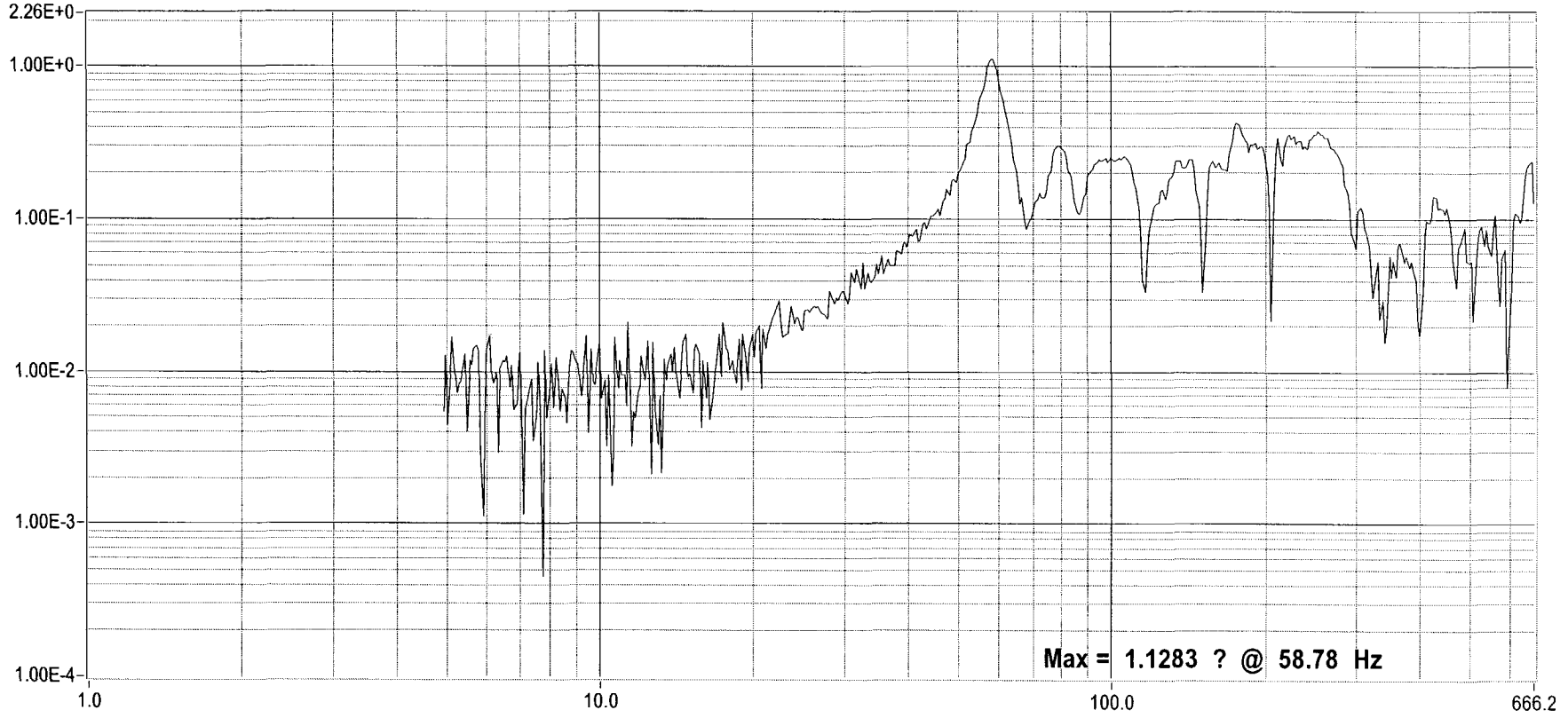
Channel #: 36 **Node Number:** 0036

Channel Description: BOX 3 CH 4 SN=AF35

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:30 PM

Frequency HZ

A1RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A1RY: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

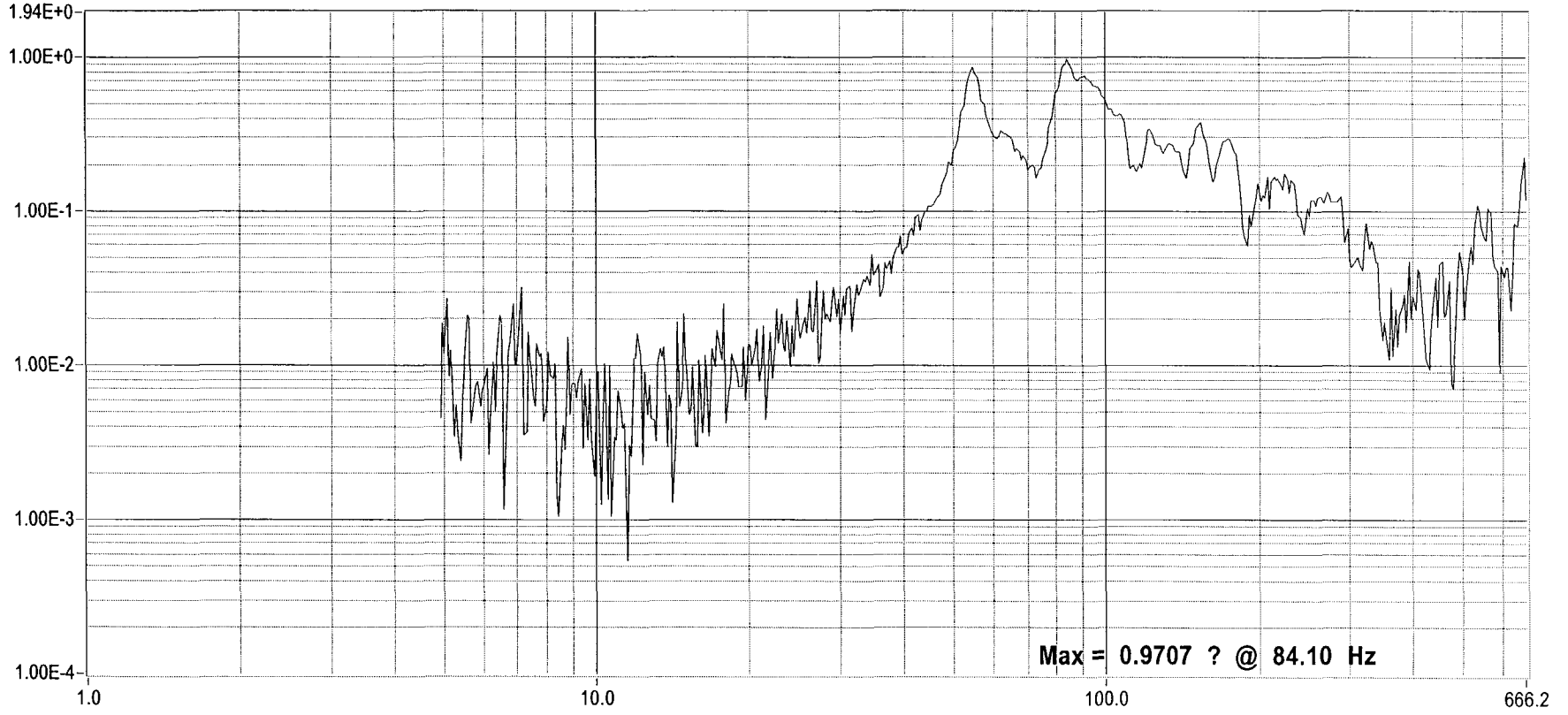
Channel #: 37 **Node Number:** 0037

Channel Description: BOX 3 CH 5 SN=AB88

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:30 PM

Frequency HZ

A1RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 38 **Node Number:** 0038

Channel Description: BOX 3 CH 6 SN=AG51

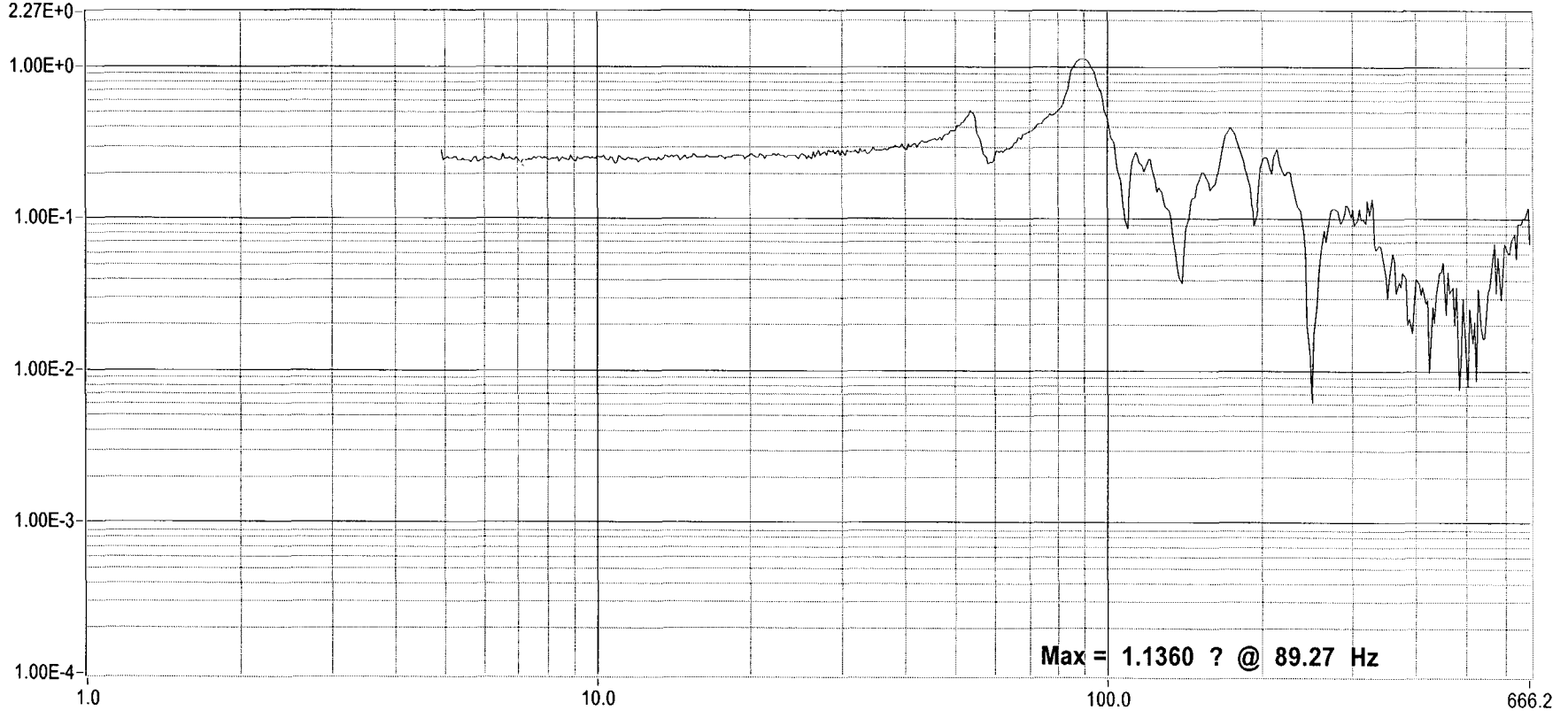
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A1RZ: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:30 PM

Frequency HZ

A1RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 39 **Node Number:** 0039

Channel Description: BOX 3 CH 7 SN=AK10

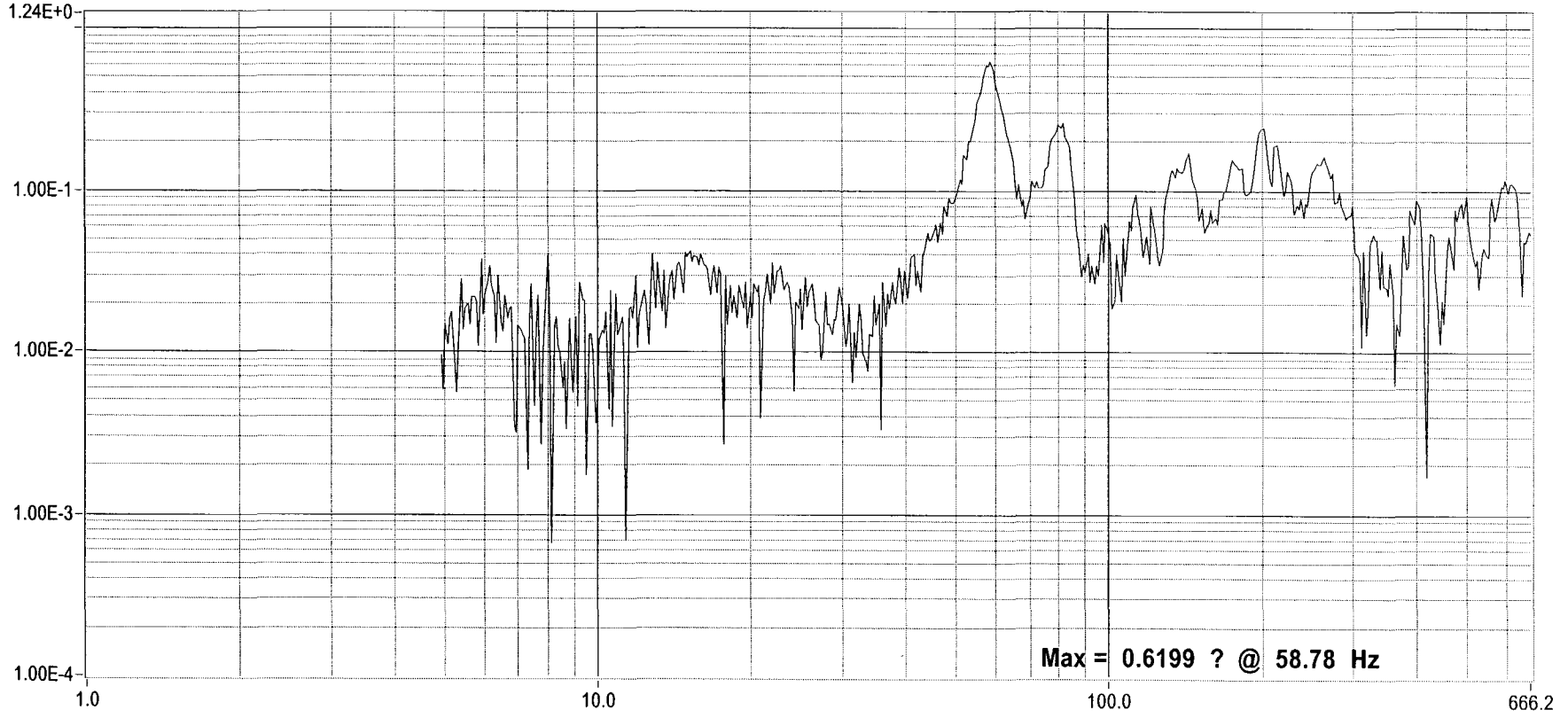
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A2X: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:31 PM

Frequency HZ

A2X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 40 **Node Number:** 0040

Channel Description: BOX 3 CH 8 SN=AB06

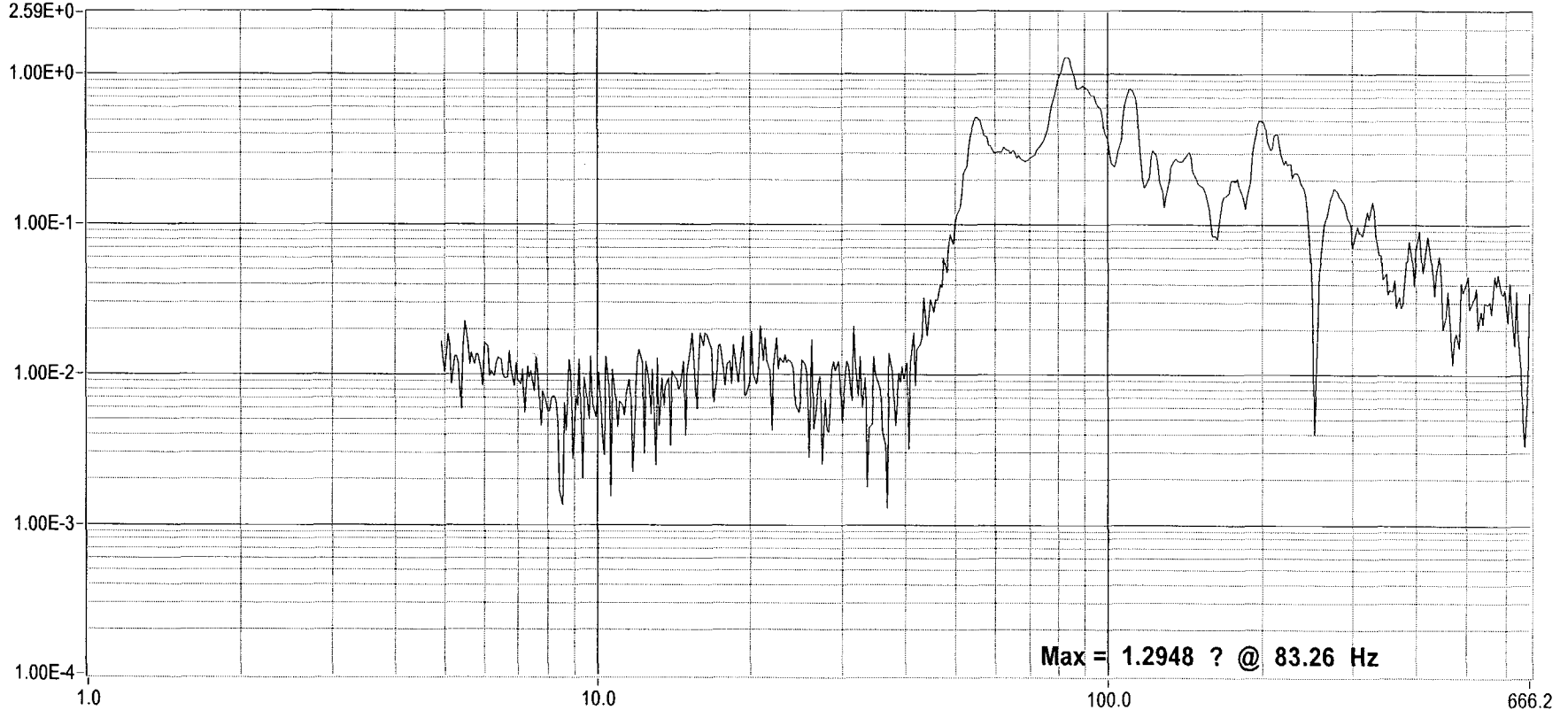
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A2Y: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:31 PM

Frequency HZ

A2Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A2Z: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

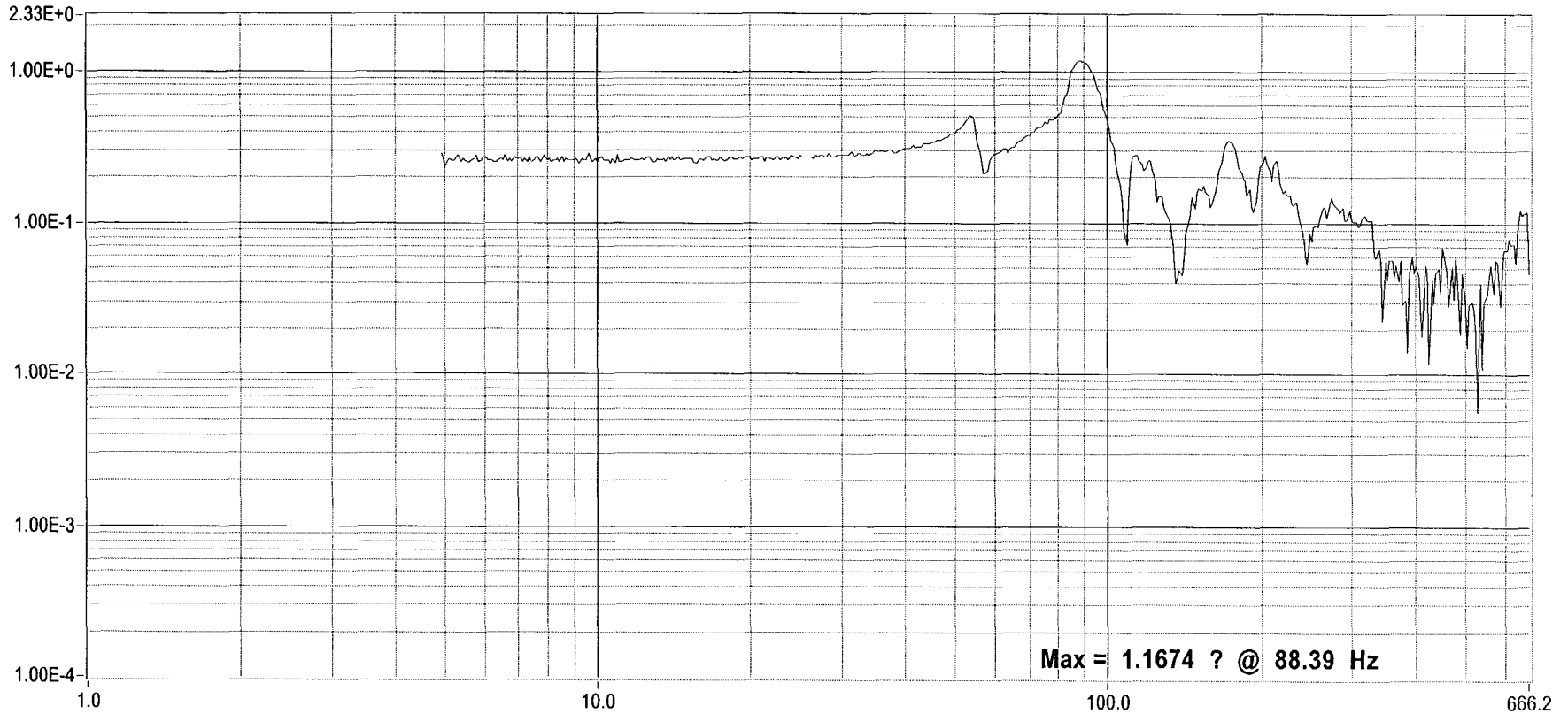
Channel #: 41 **Node Number:** 0041

Channel Description: BOX 3 CH 9 SN=AF28

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:31 PM

Frequency HZ

A2Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 42 **Node Number:** 0042

Channel Description: BOX 3 CH 10 SN=AJ30

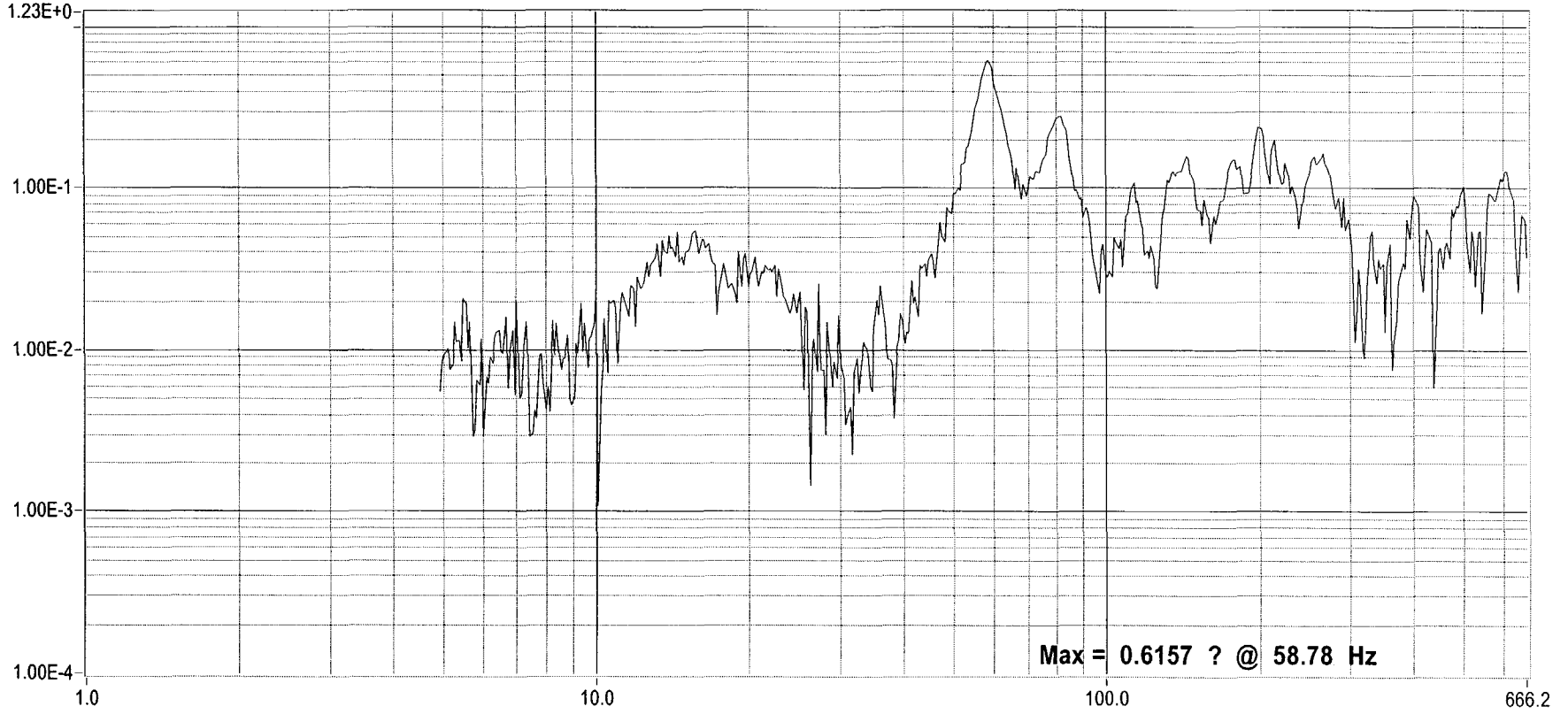
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A2RX: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:31 PM

Frequency HZ

A2RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A2RY: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

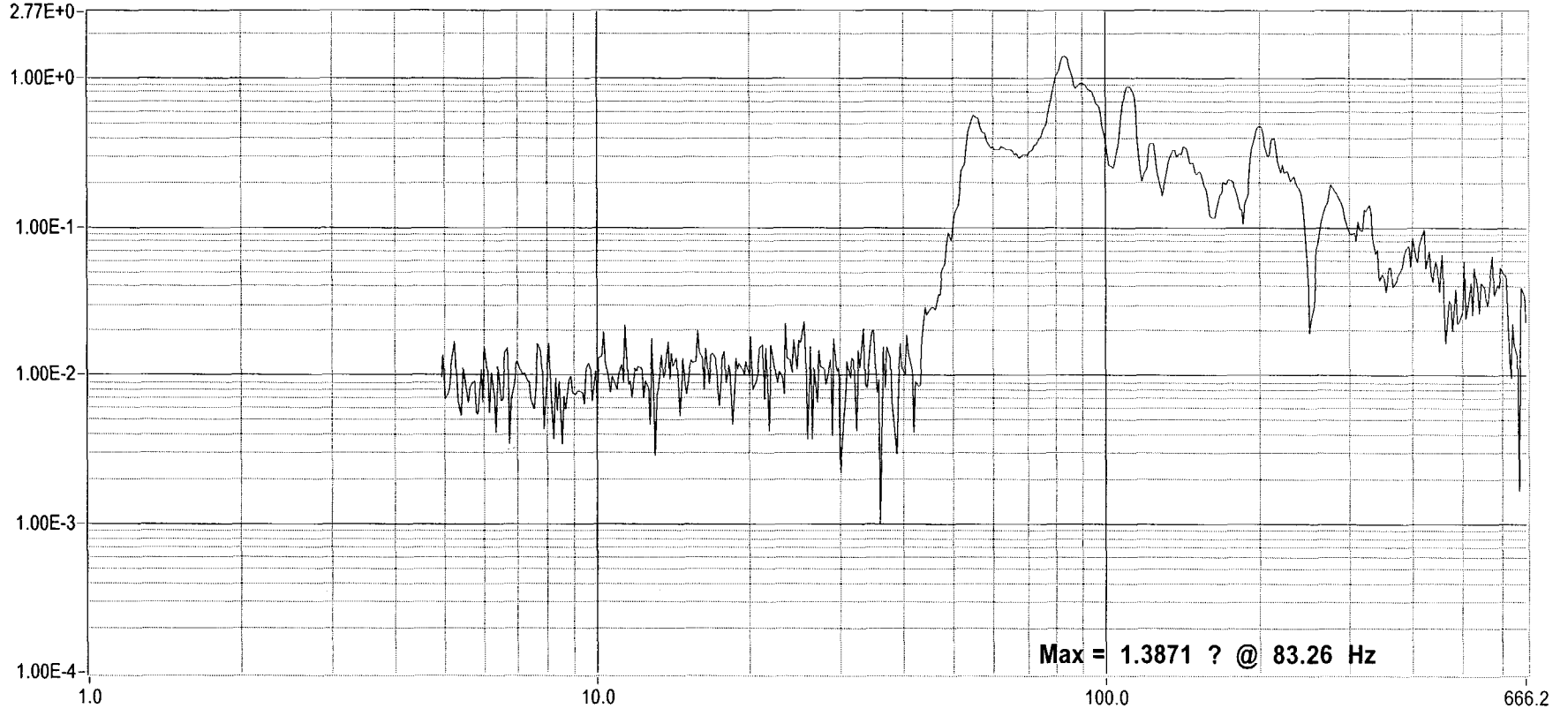
Channel #: 43 **Node Number:** 0043

Channel Description: BOX 3 CH 11 SN=AE60

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:32 PM

Frequency HZ

A2RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A2RZ: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

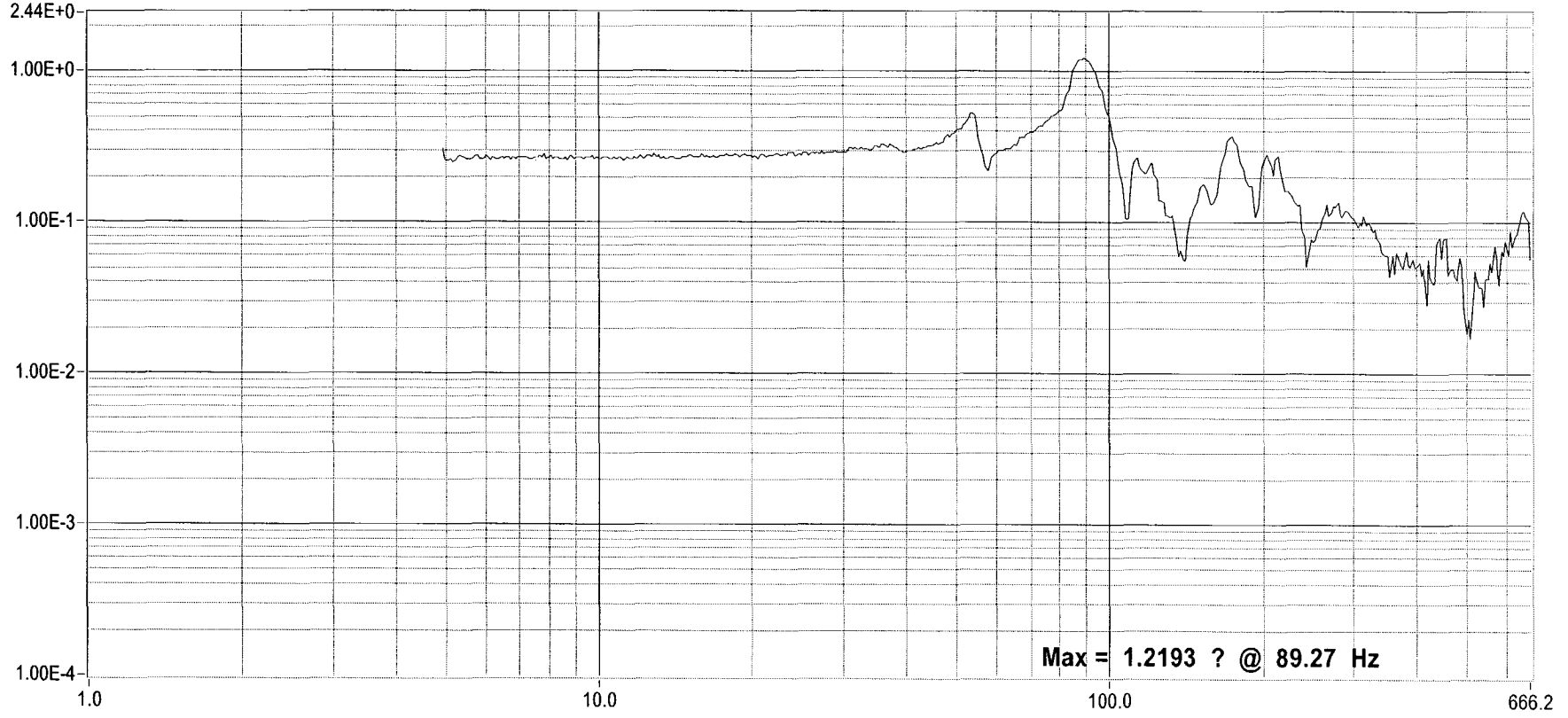
Channel #: 44 **Node Number:** 0044

Channel Description: BOX 3 CH 12 SN=AG01

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:32 PM

Frequency HZ

A2RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

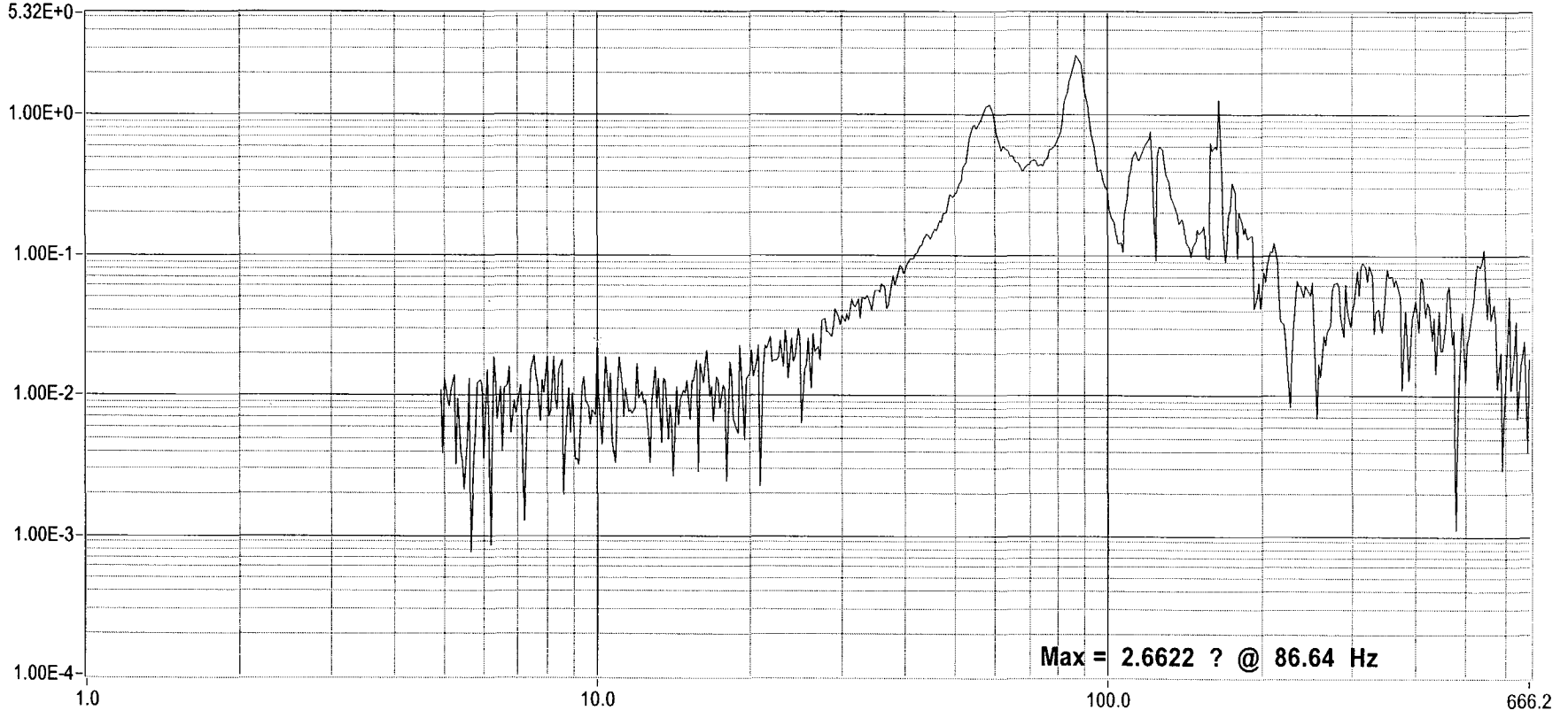
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:32 PM

Frequency HZ

A3X: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 46 **Node Number:** 0046

Channel Description: BOX 3 CH 14 SN=AG02

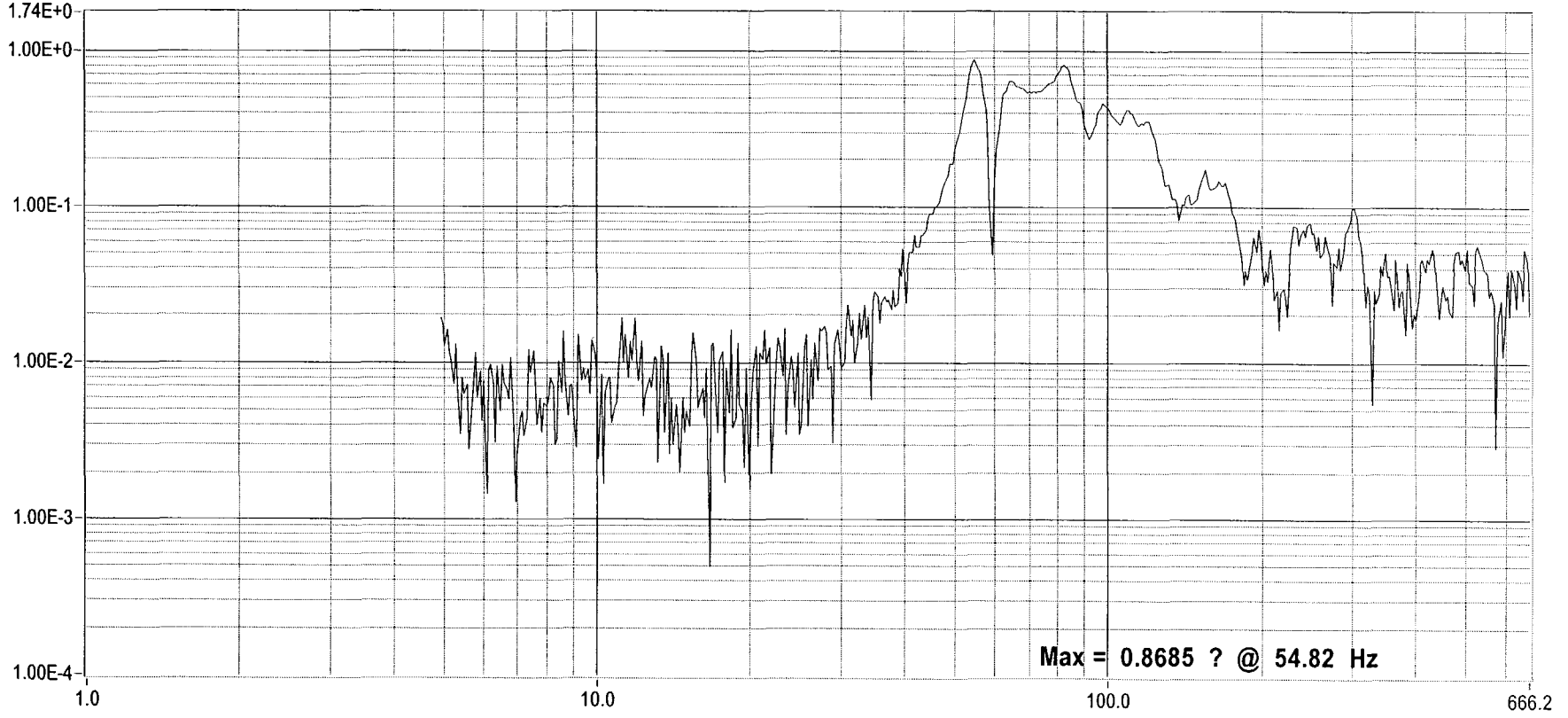
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A3Y: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:32 PM

Frequency HZ

A3Y: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 47 **Node Number:** 0047

Channel Description: BOX 3 CH 15 SN=BC12

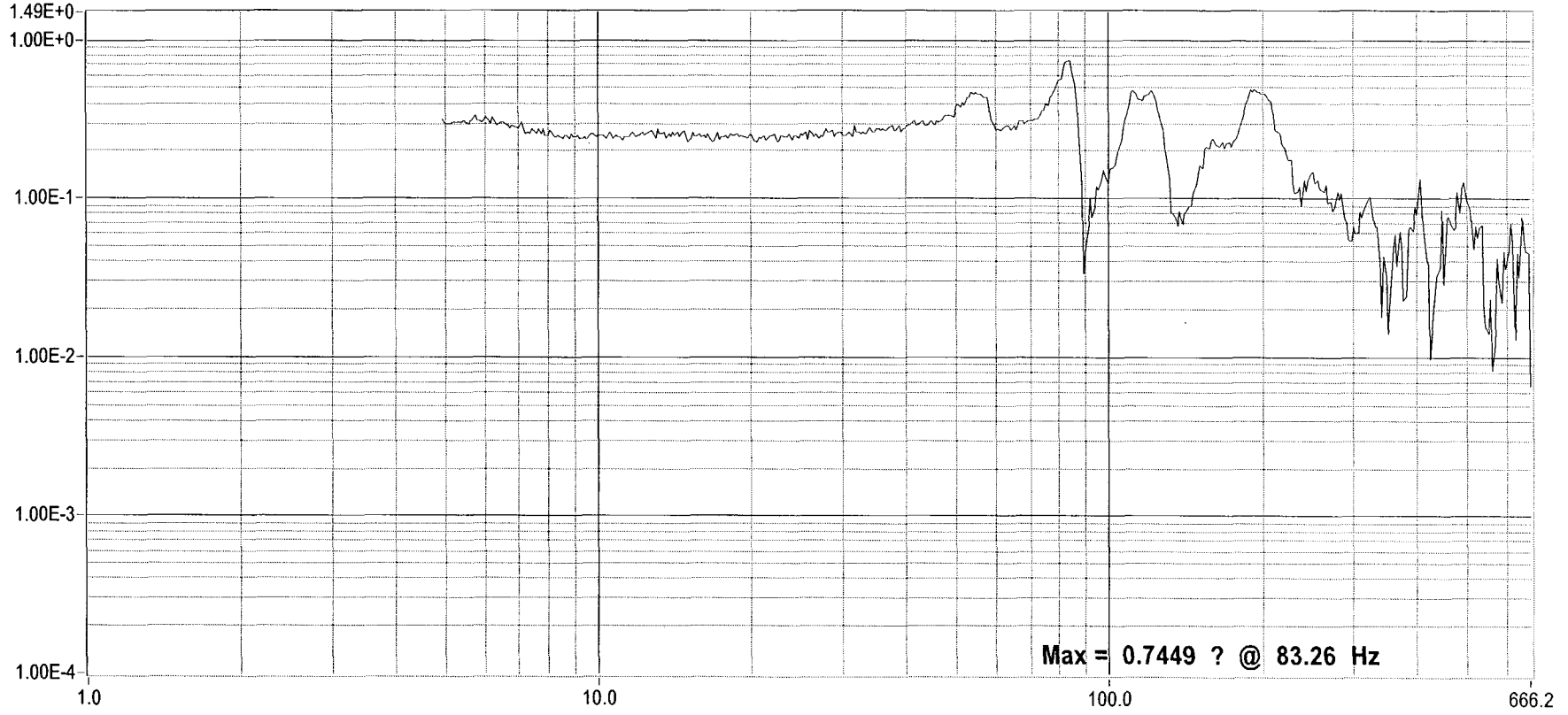
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A3Z: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:33 PM

Frequency HZ

A3Z: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A3RX: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

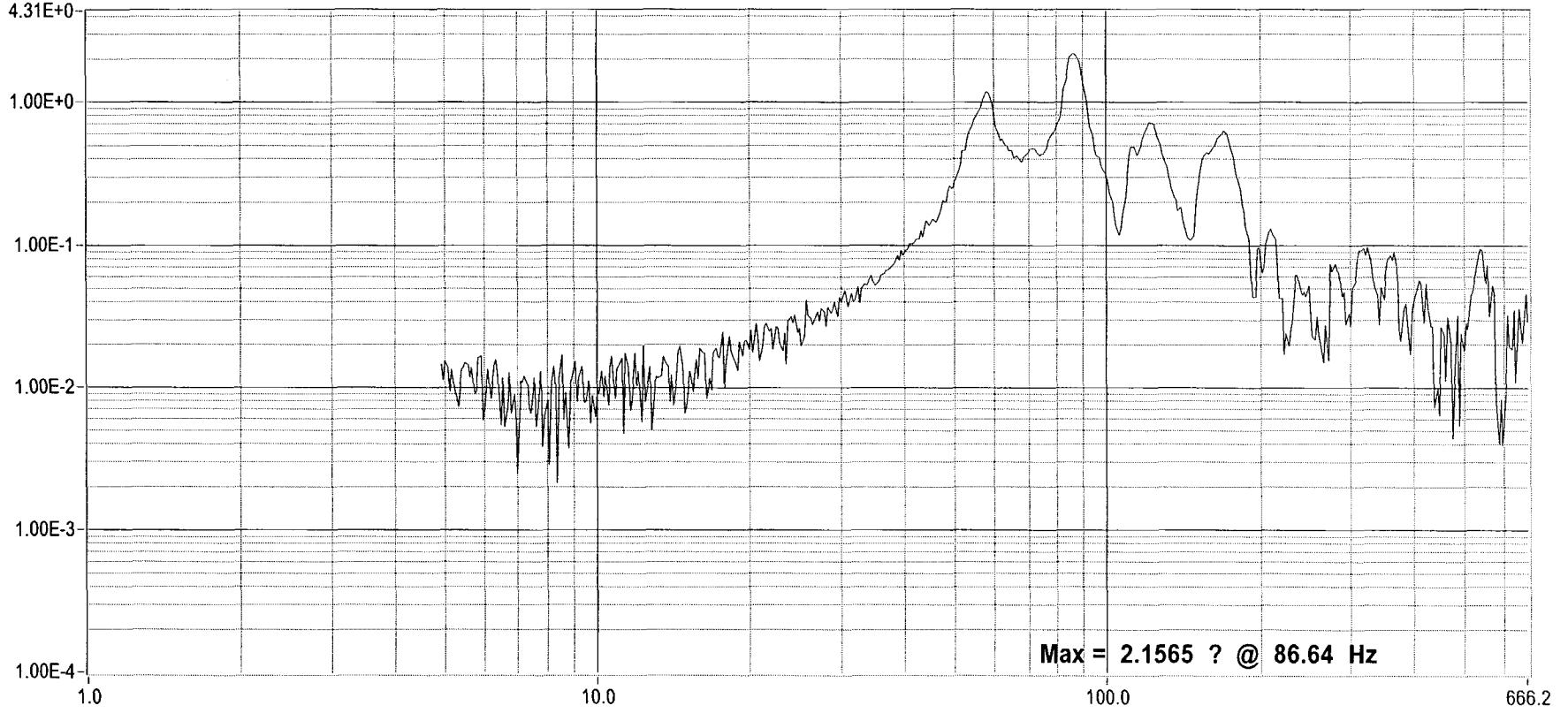
Channel #: 48 **Node Number:** 0048

Channel Description: BOX 3 CH 16 SN=AE43

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:33 PM

Frequency HZ

A3RX: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A3RY: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

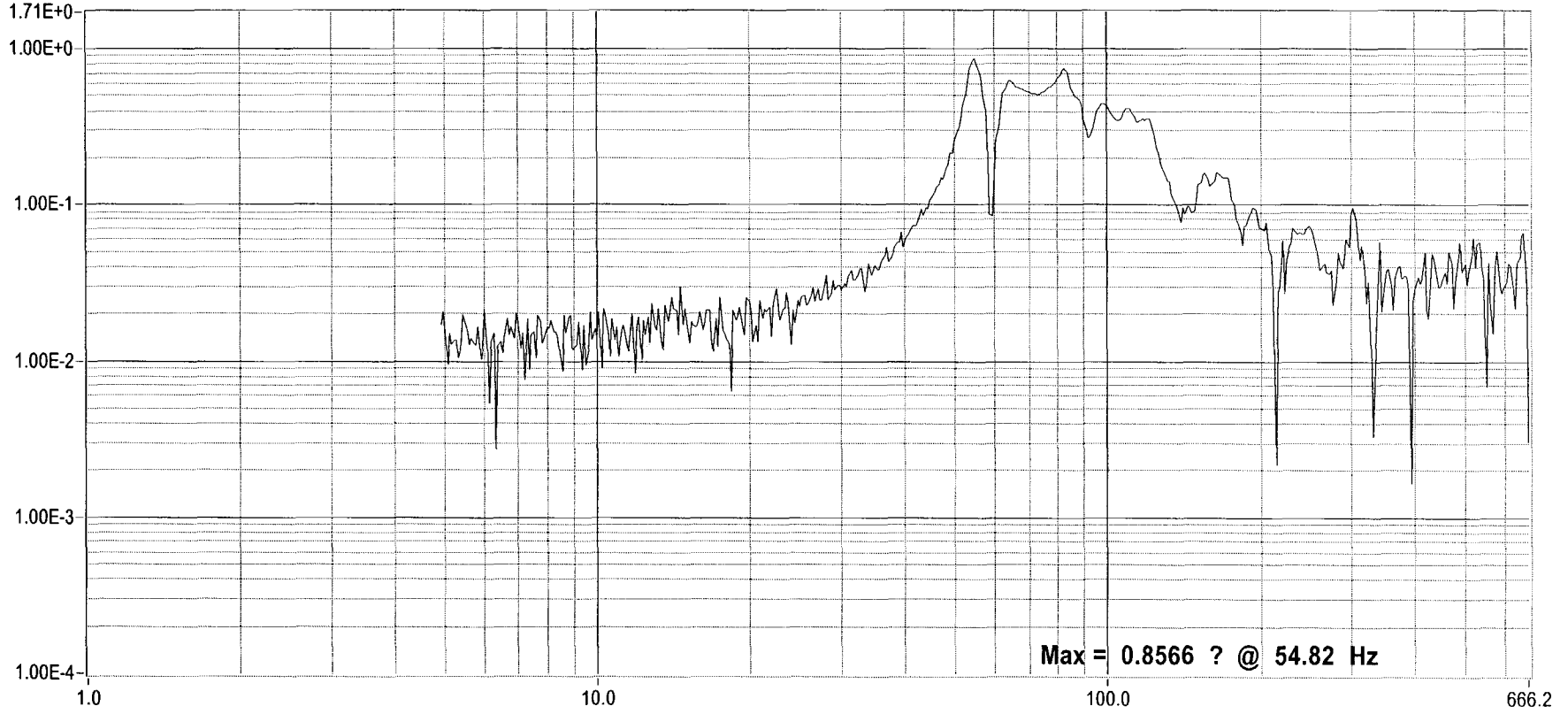
Channel #: 49 **Node Number:** 0049

Channel Description: BOX 4 CH 1 SN=AF57

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:33 PM

Frequency HZ

A3RY: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

A3RZ: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

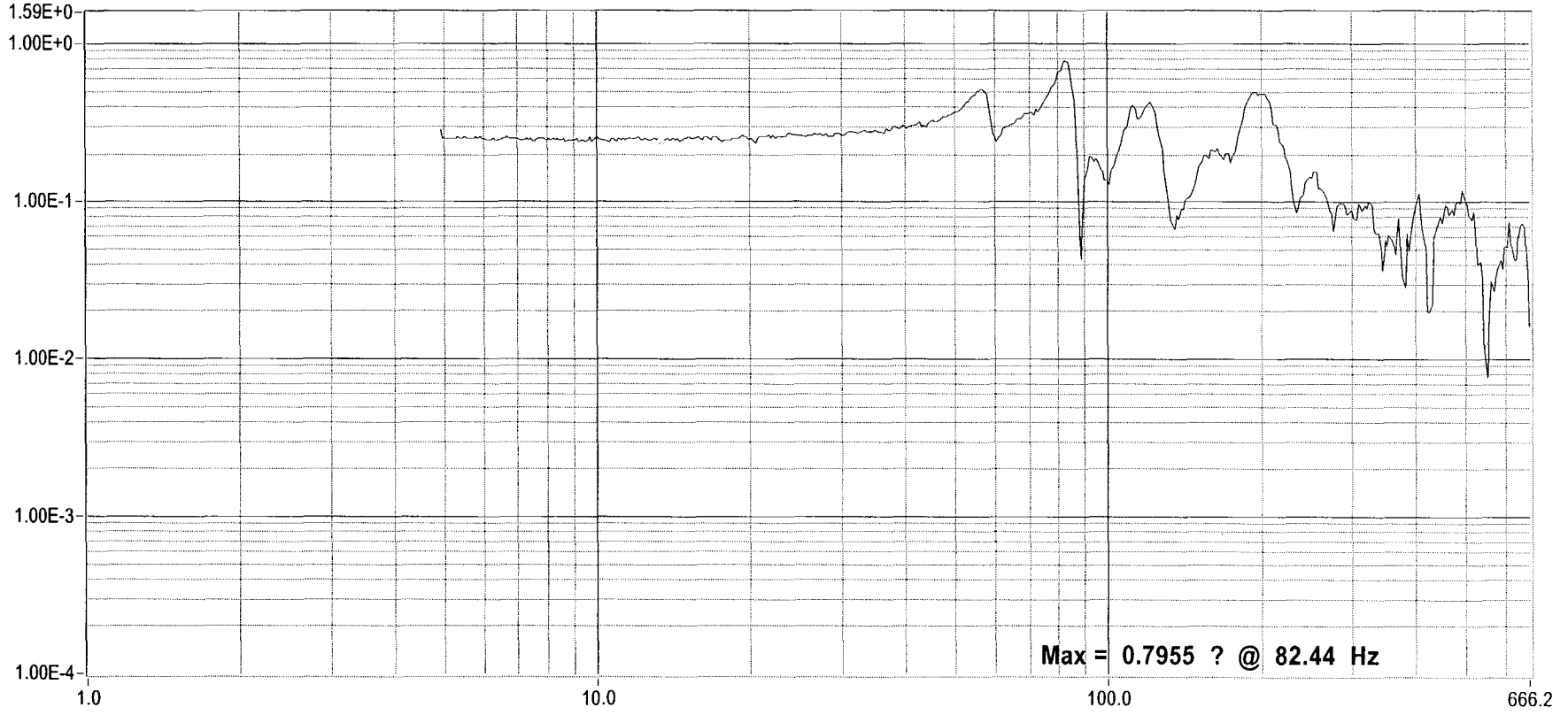
Channel #: 50 **Node Number:** 0050

Channel Description: BOX 4 CH 2 SN=AB65

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:33 PM

Frequency HZ

A3RZ: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 51 **Node Number:** 0051

Channel Description: BOX 4 CH 3 SN=AH55

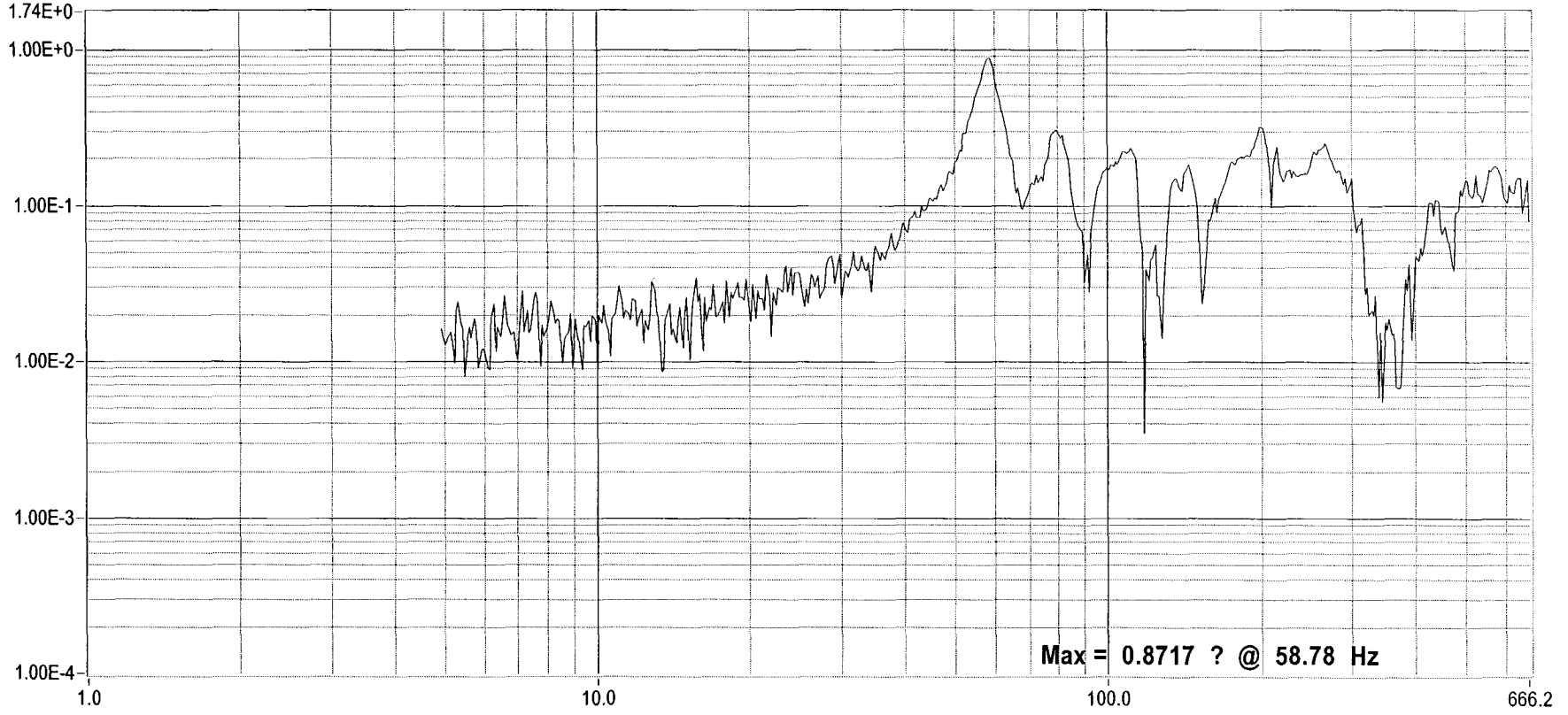
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A4X: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:33 PM

Frequency HZ

A4X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 52 **Node Number:** 0052

Channel Description: BOX 4 CH 4 SN=AJ95

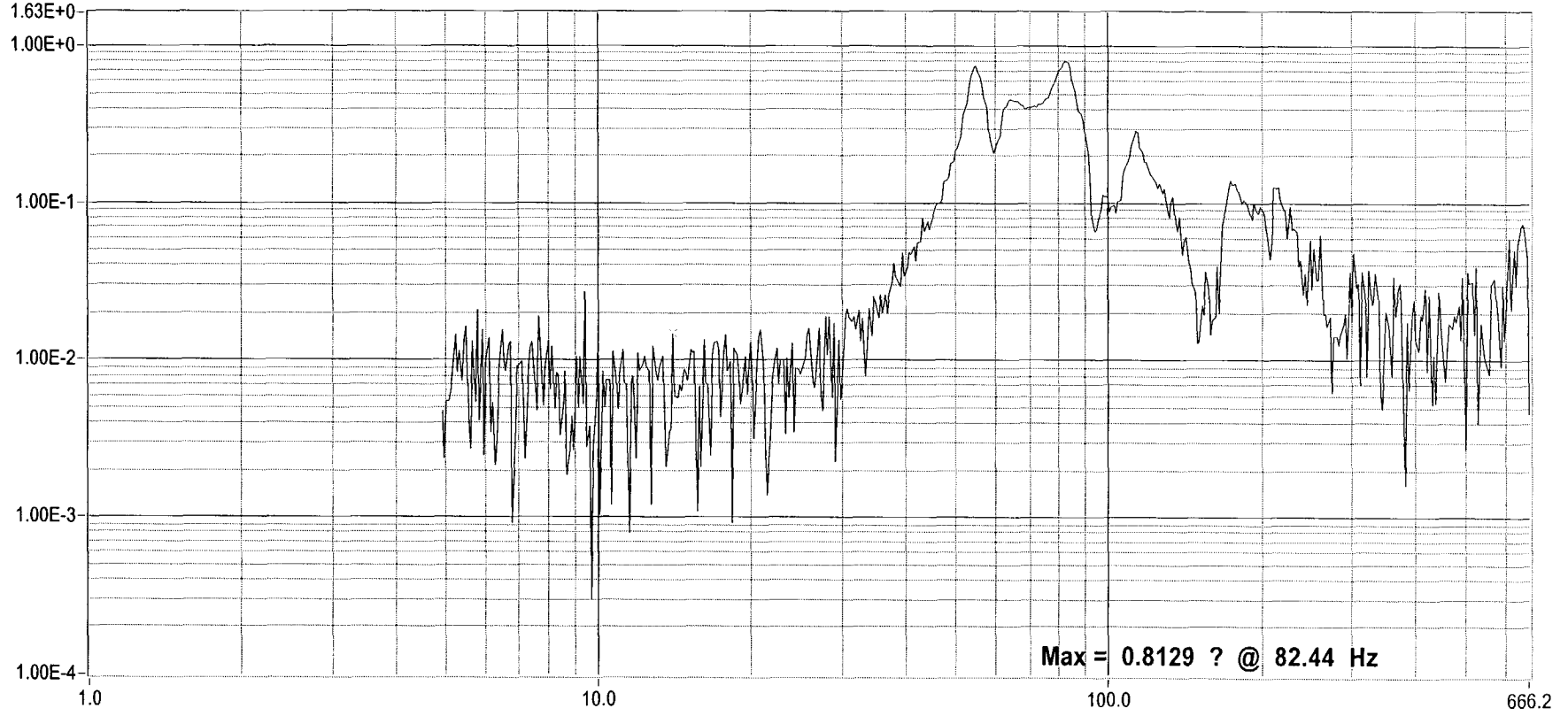
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A4Y: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:34 PM

Frequency HZ

A4Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 53 **Node Number:** 0053

Channel Description: BOX 4 CH 5 SN=AB55

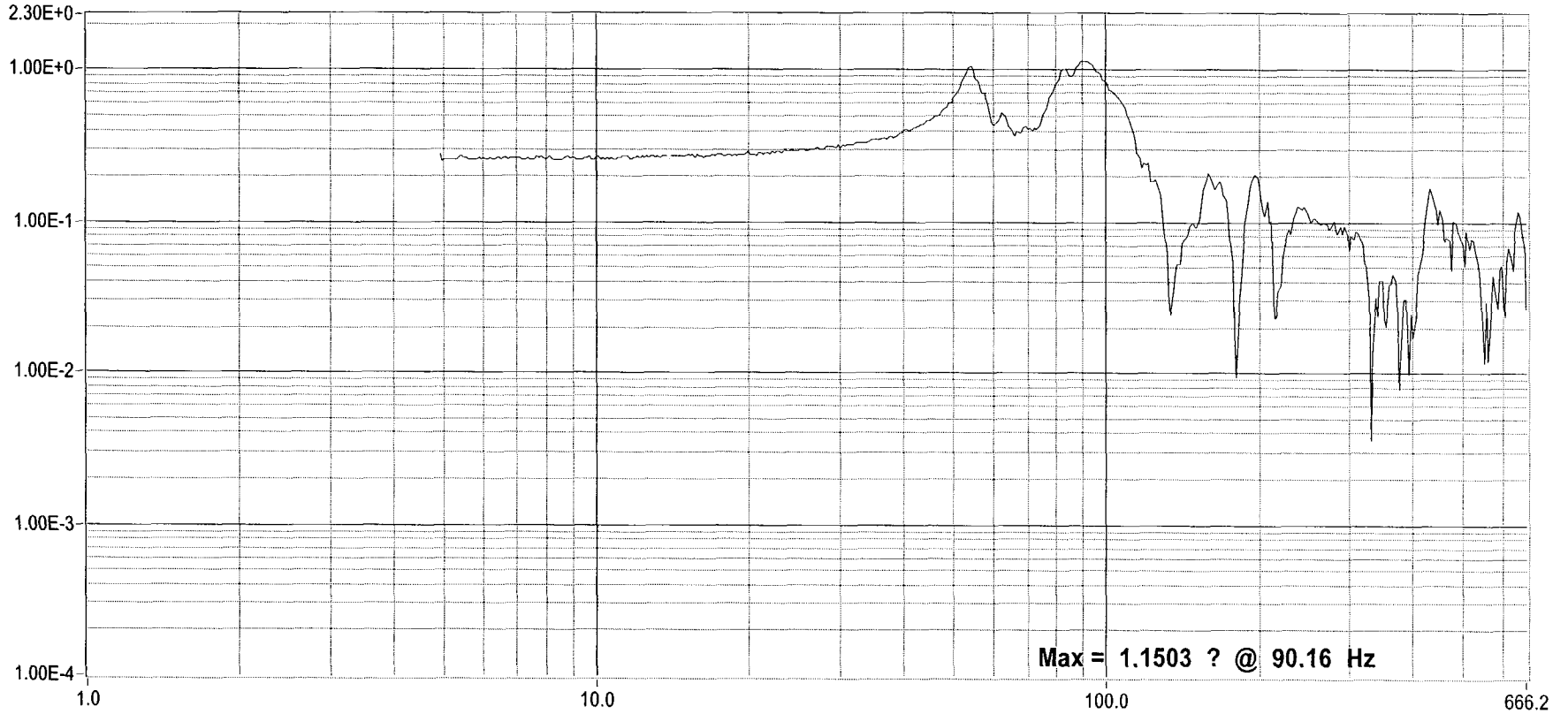
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A4Z: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:34 PM

A4Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 54 **Node Number:** 0054

Channel Description: BOX 4 CH 6 SN=AF10

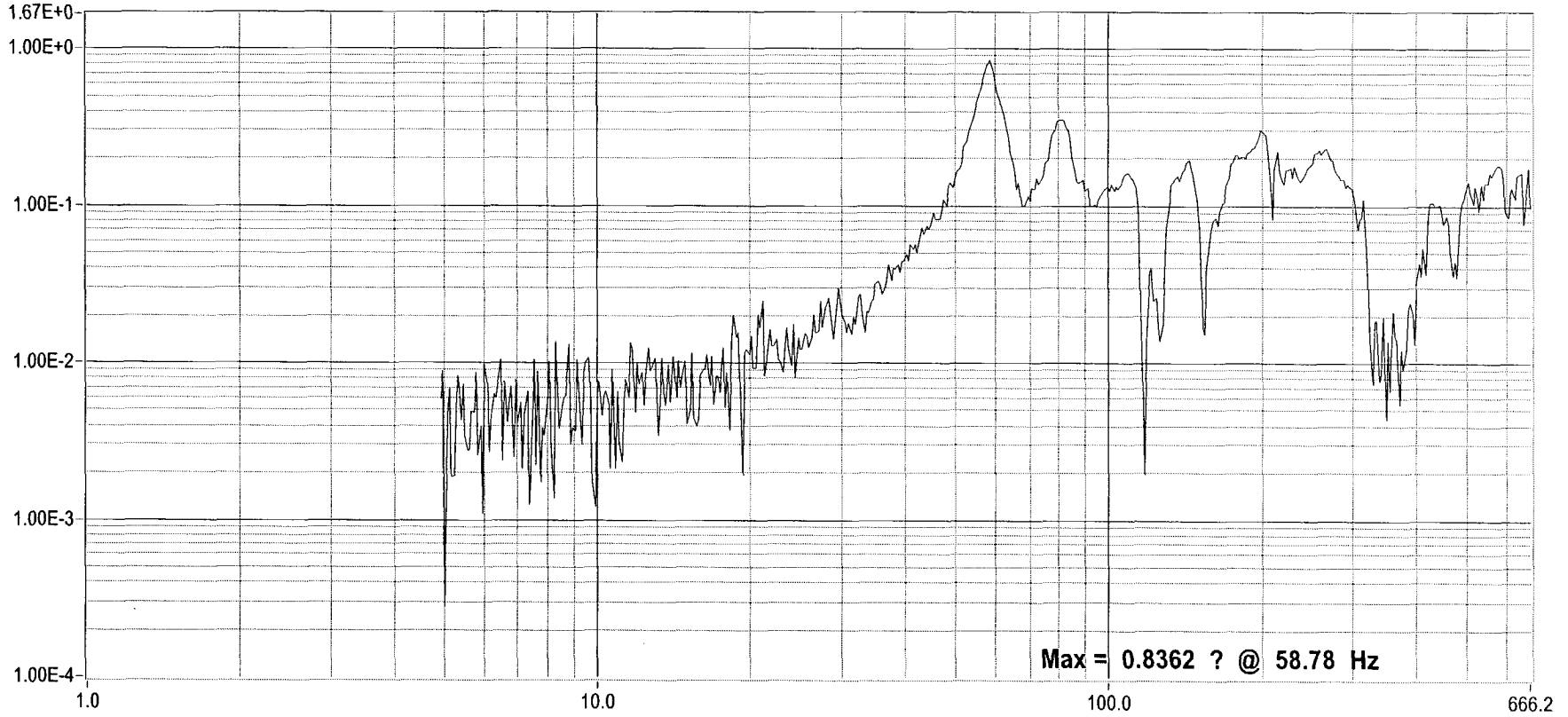
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A4RX: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:34 PM

Frequency HZ

A4RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 55 **Node Number:** 0055

Channel Description: BOX 4 CH 7 SN=AF56

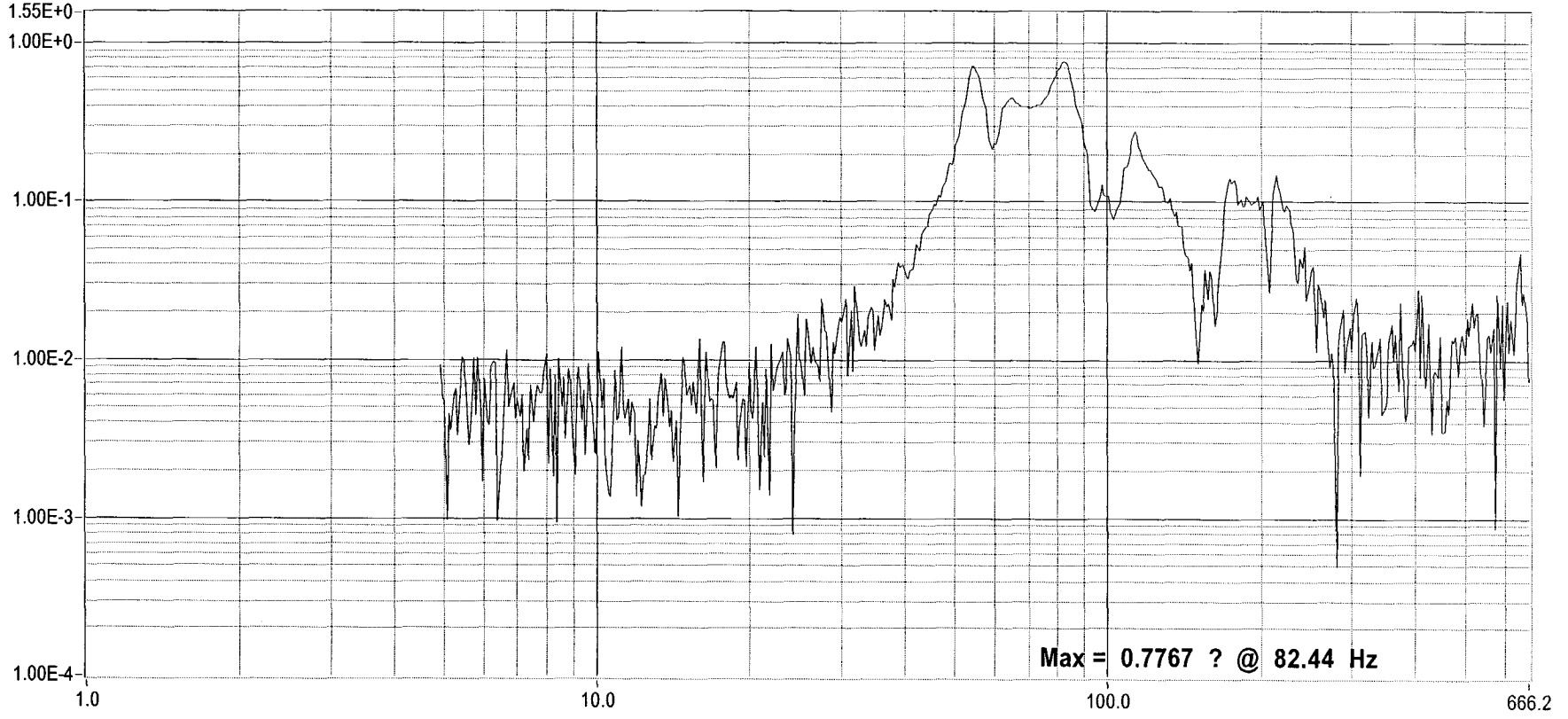
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A4RY: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:34 PM

Frequency HZ

A4RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

Channel #: 56 **Node Number:** 0056

Channel Description: BOX 4 CH 8 SN=AD53

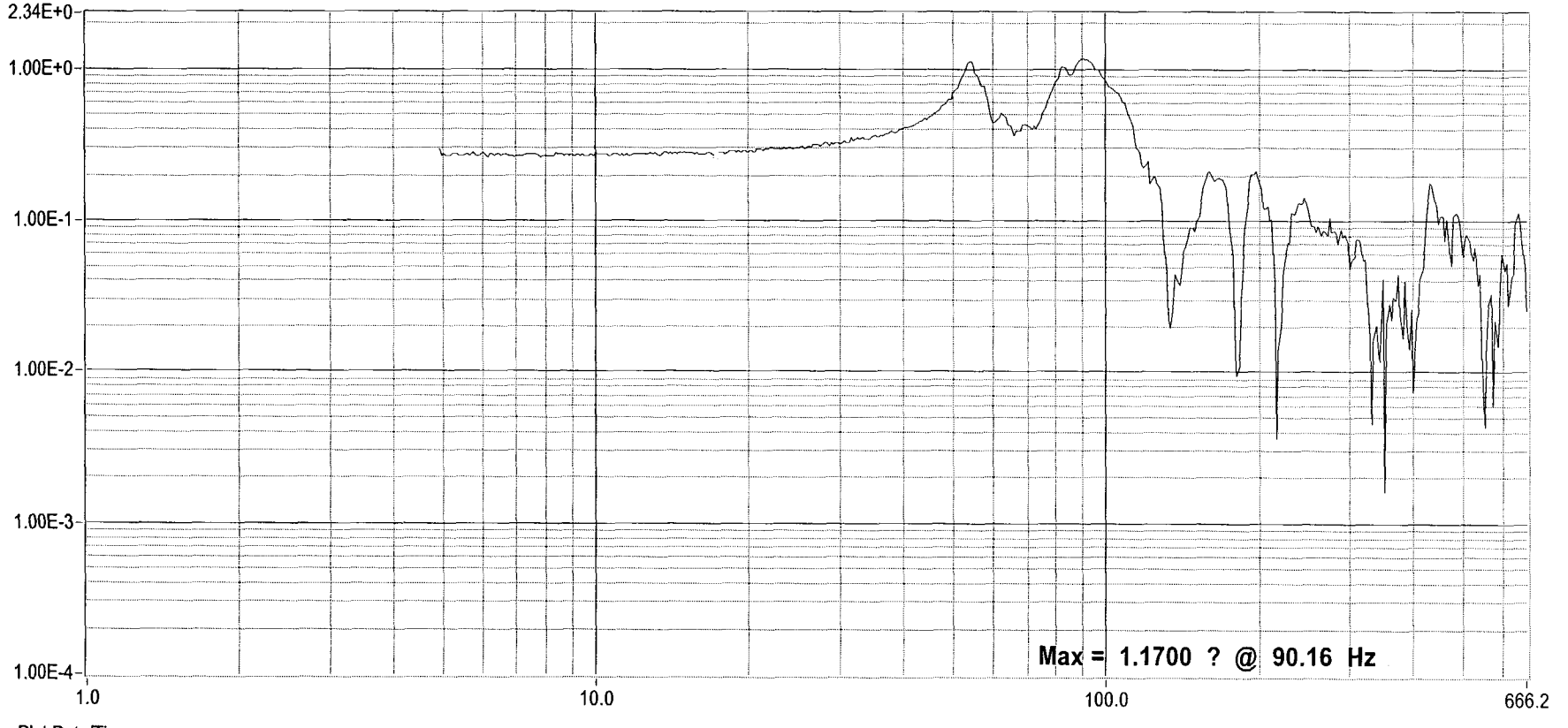
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 11:52:57

A4RZ: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:35 PM

Frequency HZ

A4RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 11:52:57

F1: FLY AWAY

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062309

Part Number/ID: Y4011

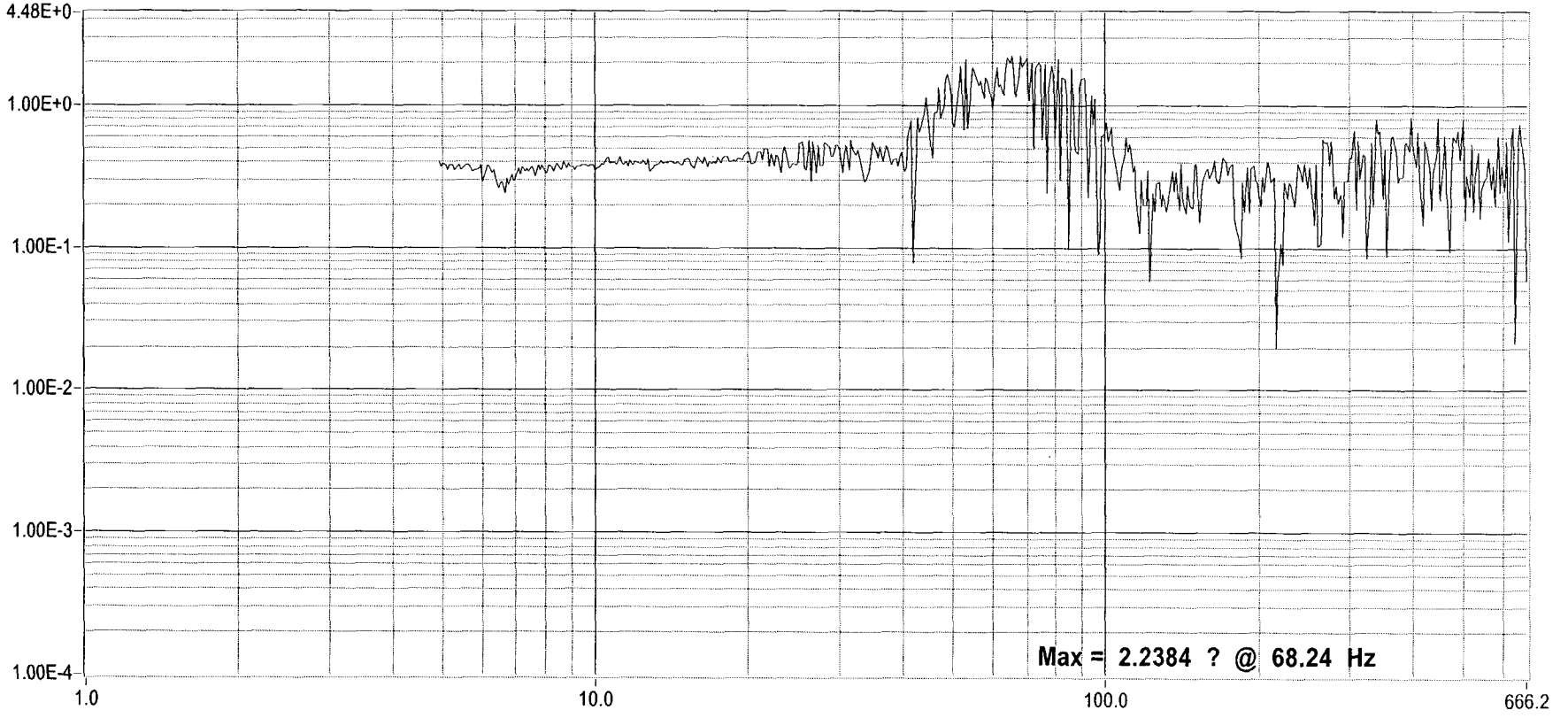
Channel #: 57 **Node Number:** 0057

Channel Description: BOX 4 CH 9 SN=BF27

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 MID SIG.SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 12:35 PM

Frequency HZ

F1: FLY AWAY

LOCKHEED MARTIN MISSILES & SPACE

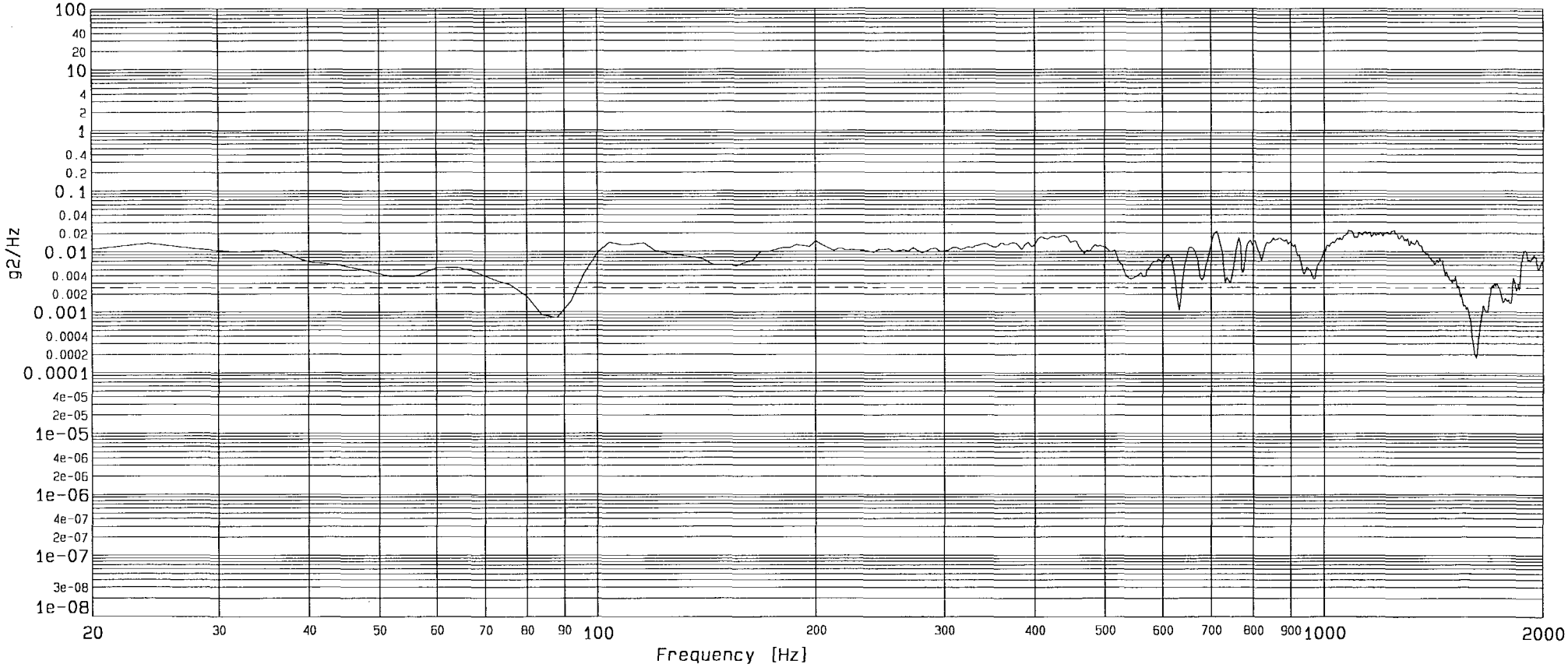
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 4.30 g
Number of averages : 119

Trace identification :
N_CONTROL_Z
Reference
Upper Ab
Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

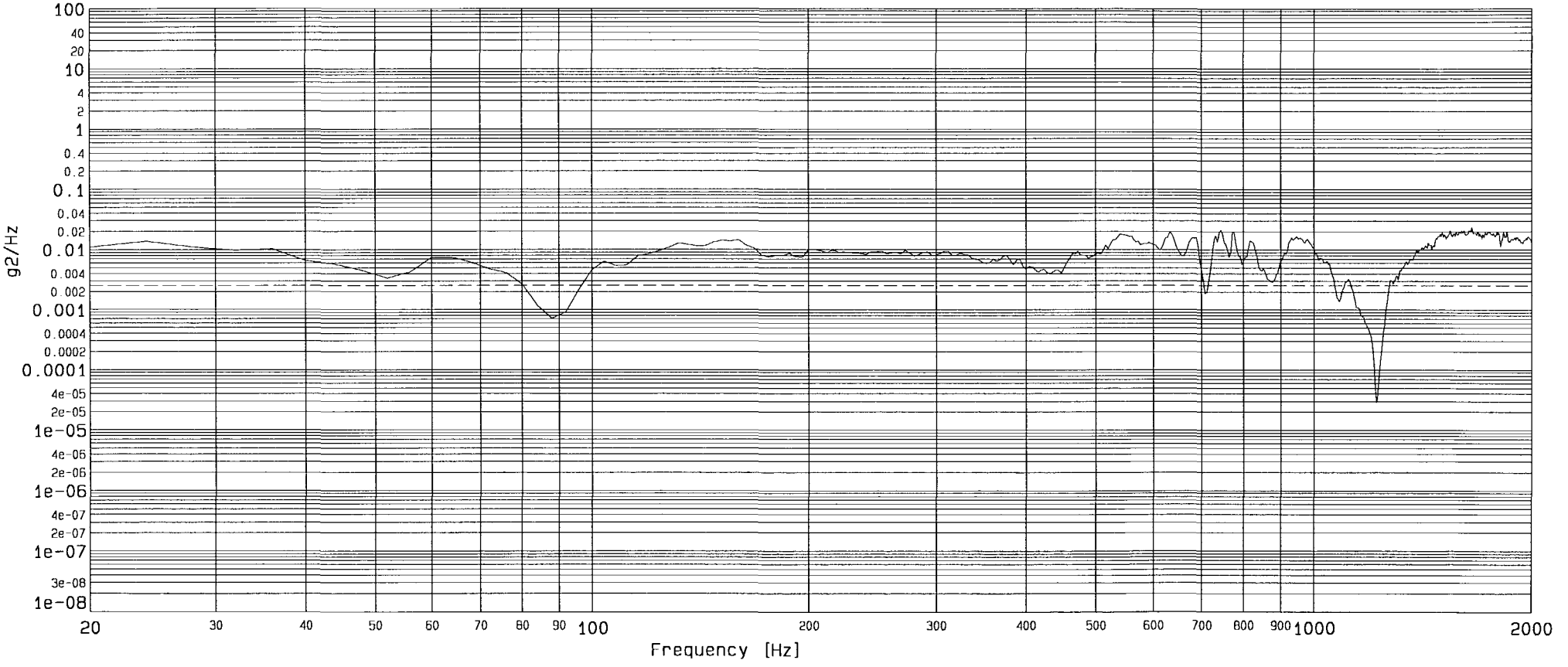
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 4.52 g
Number of averages : 119

Trace identification :
S_CONTROL_Z
Reference
Upper Ab
Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

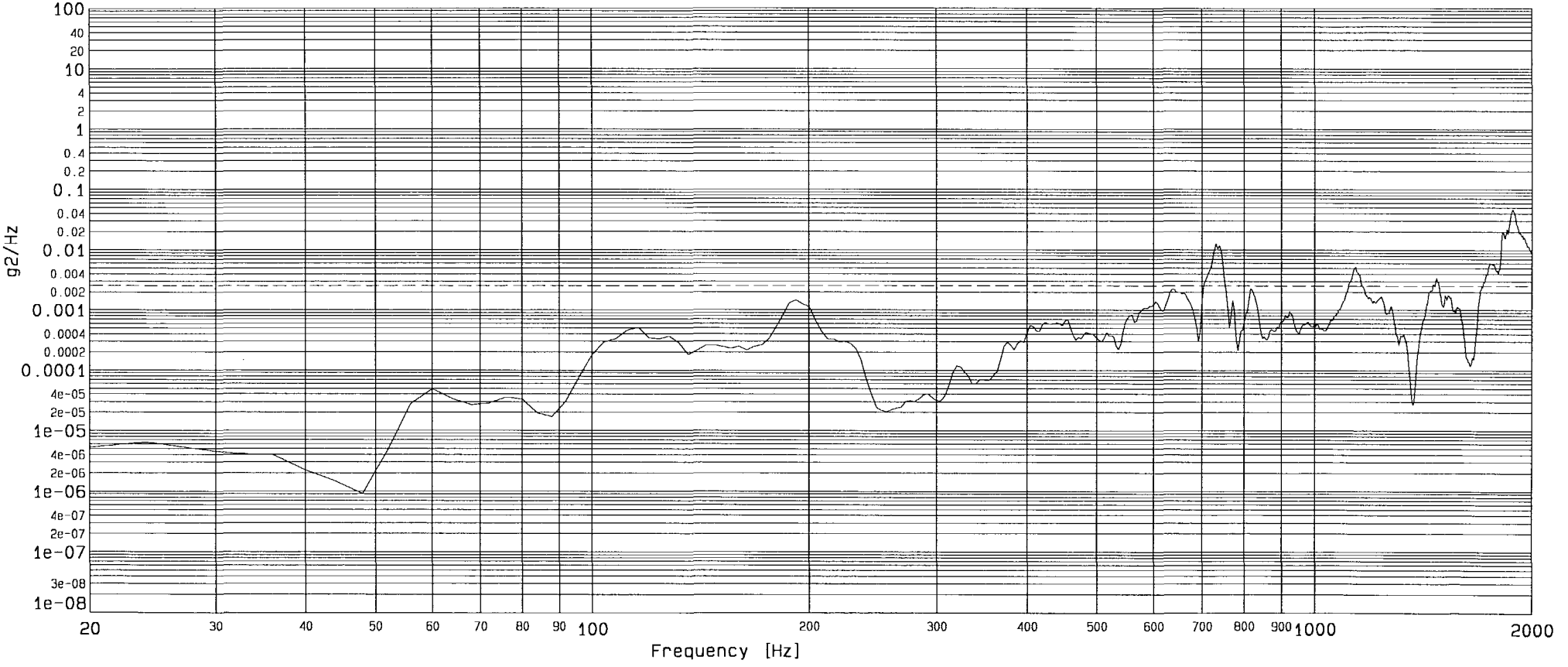
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.49 g
Number of averages : 119

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

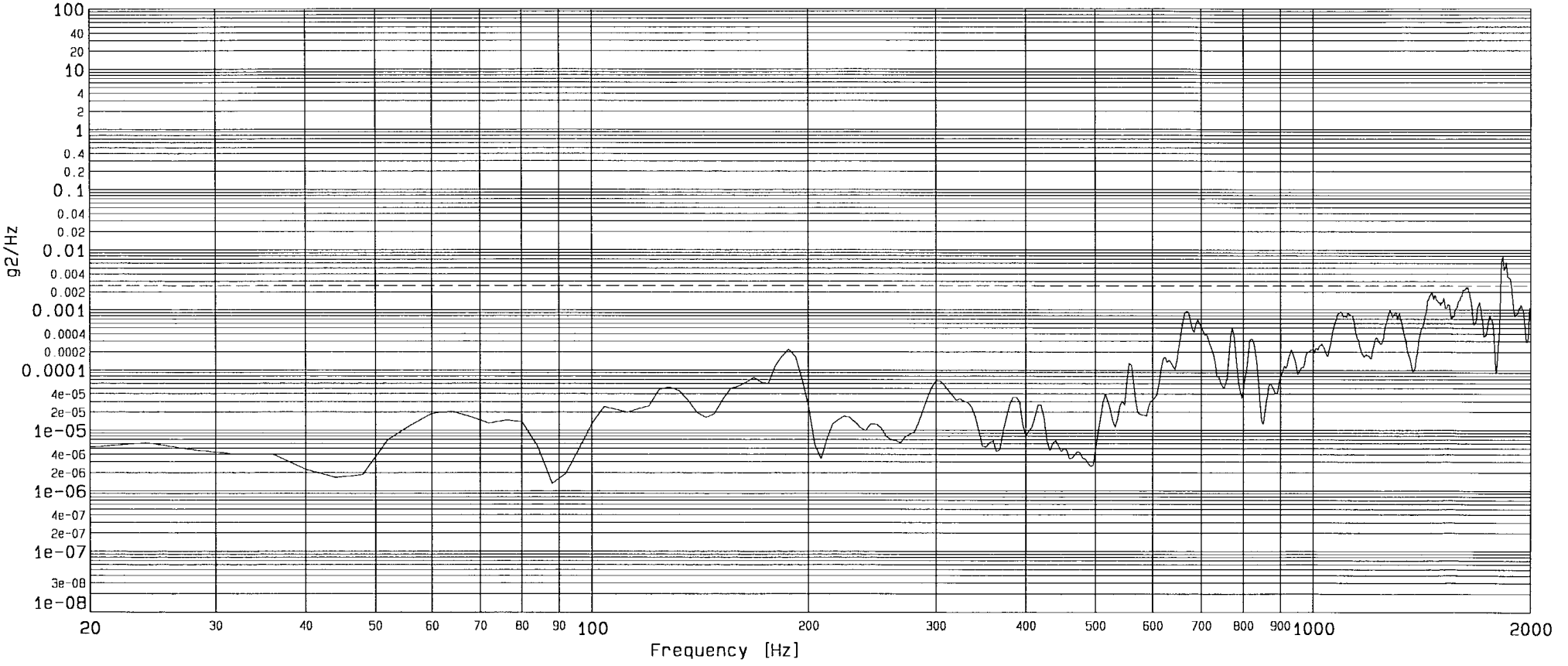
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.06 g
Number of averages : 119

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

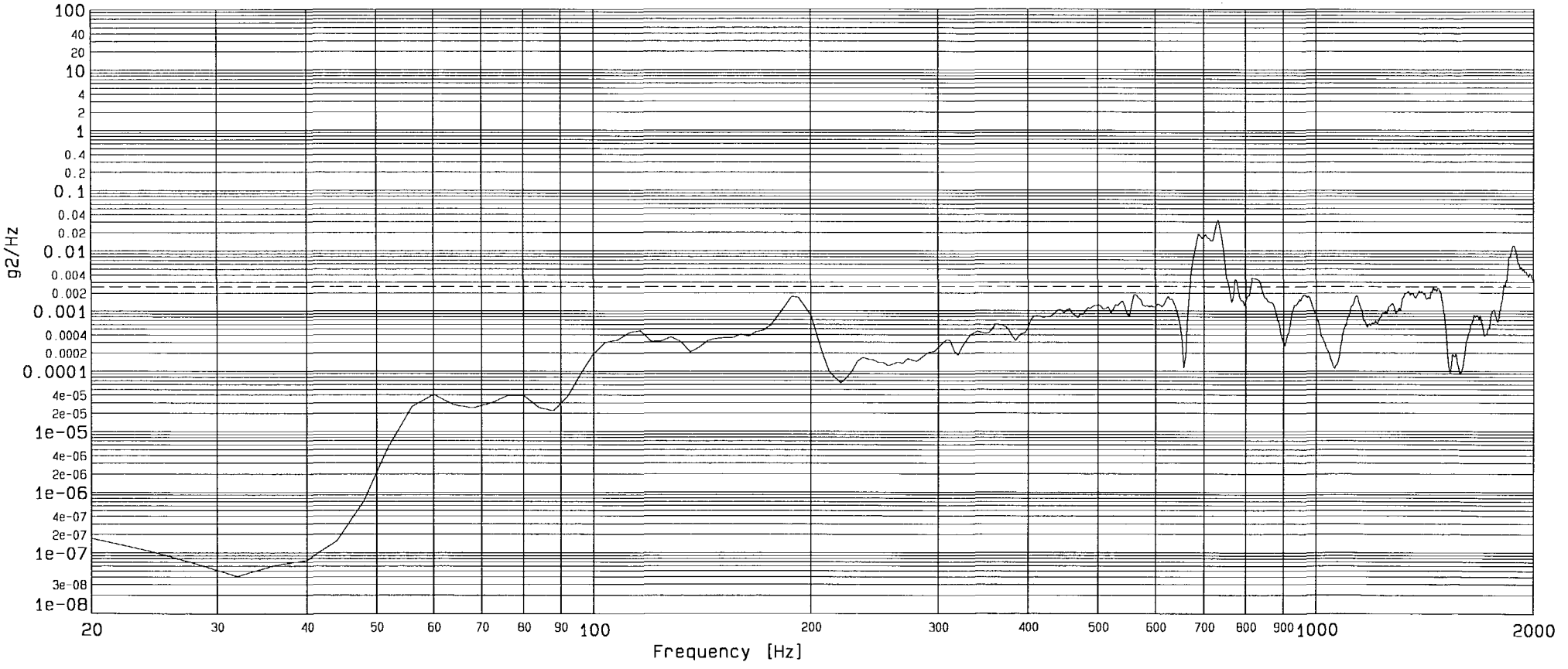
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.99 g
Number of averages : 119

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

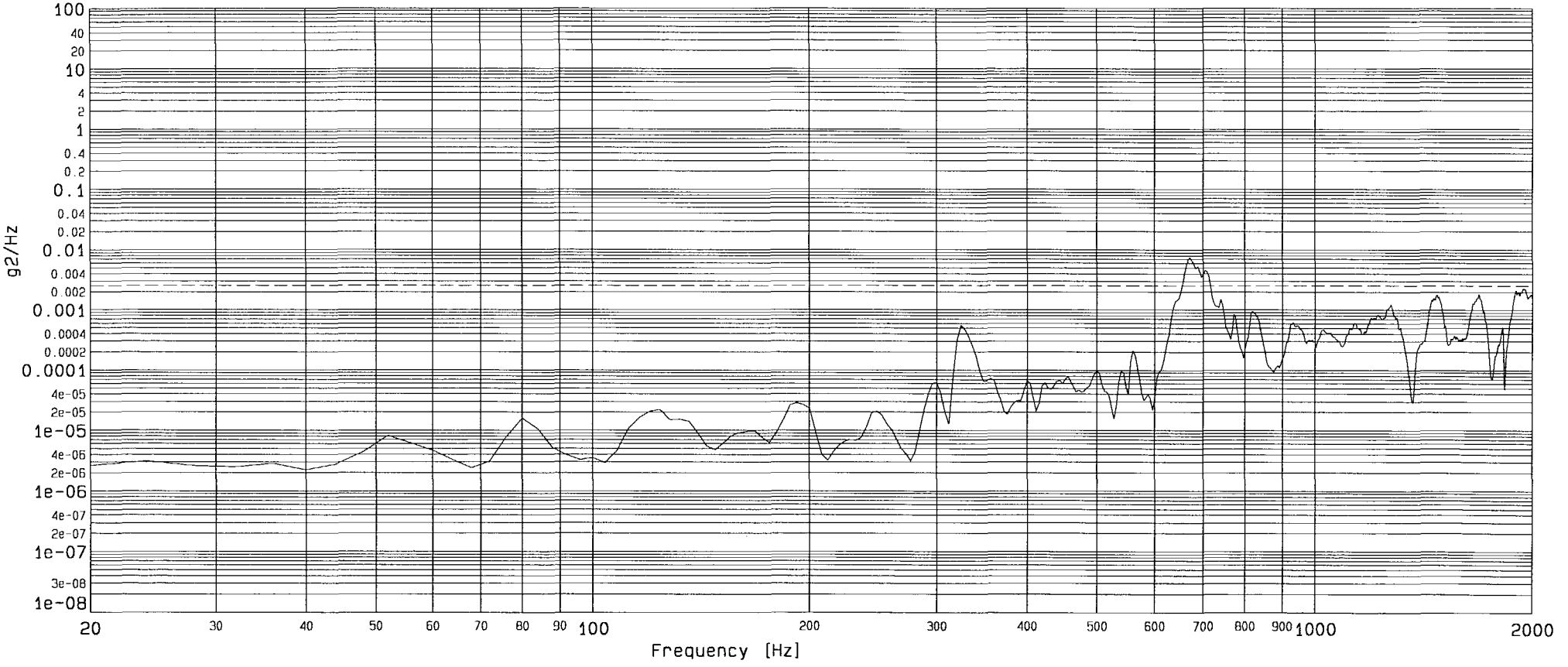
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.11 g
Number of averages : 119

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

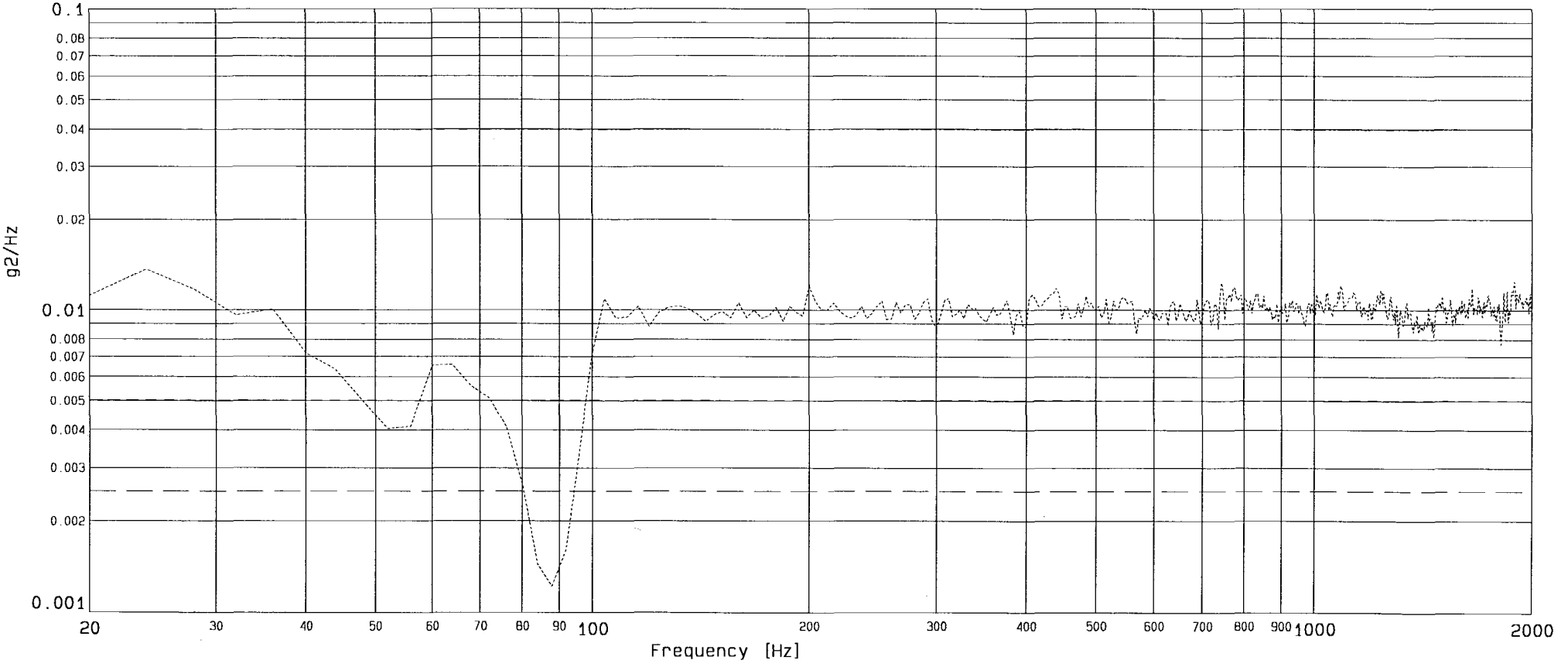
date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level	: 0.00 dB	Number of lines in alarm	: 0	Trace identification :	Reference
Elapsed time	: 00:00:50.1	Number of lines in abort	: 0		Avg Ctrl
Degrees of freedom	: 280	Reference level RMS	: 4.45 g		Upper Al
Control strategy	: Average	Control level RMS	: 4.43 g		Lower Al
Frequency resolution	: 4 Hz	Nbr of control channels	: 2		Upper Ab
					Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

lms

LOCKHEED MARTIN MISSILES & SPACE

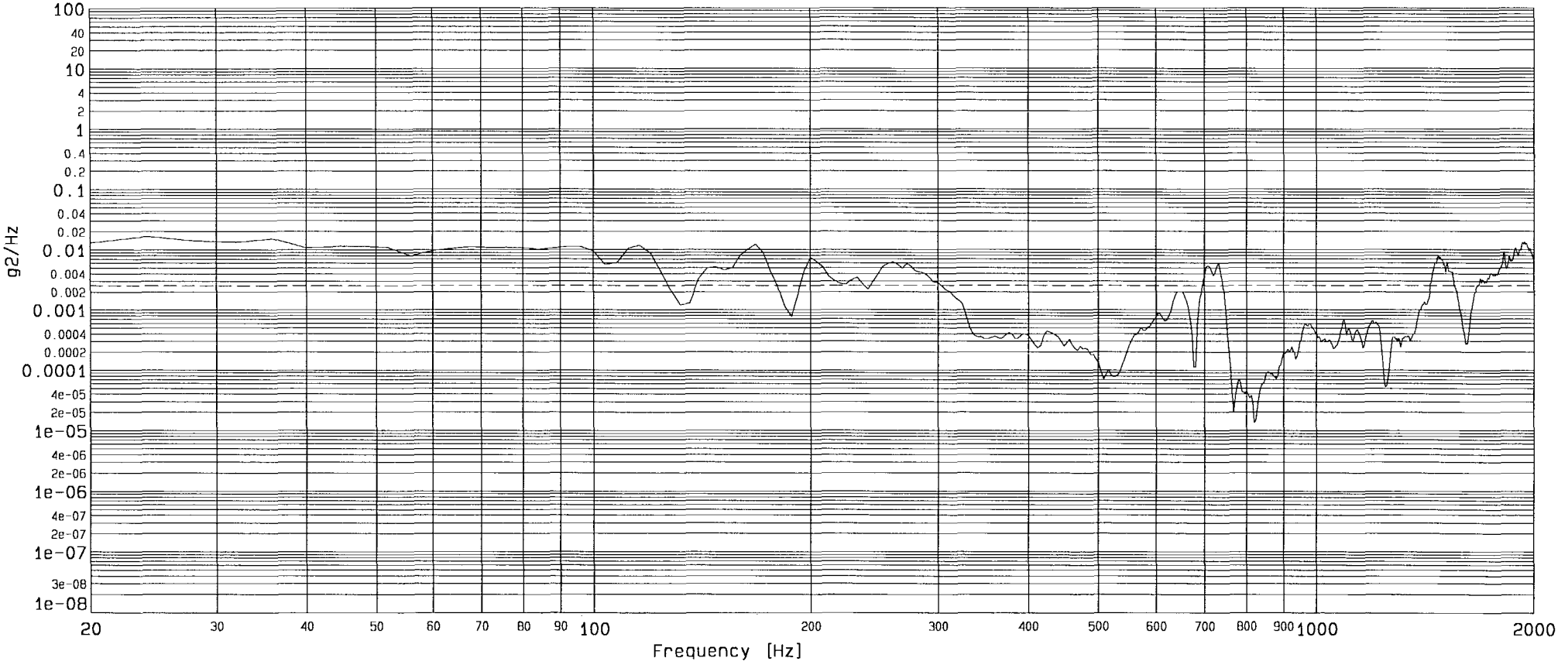
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.36 g
Number of averages : 119

Trace identification :
- A2Z_YPANEL_TE
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

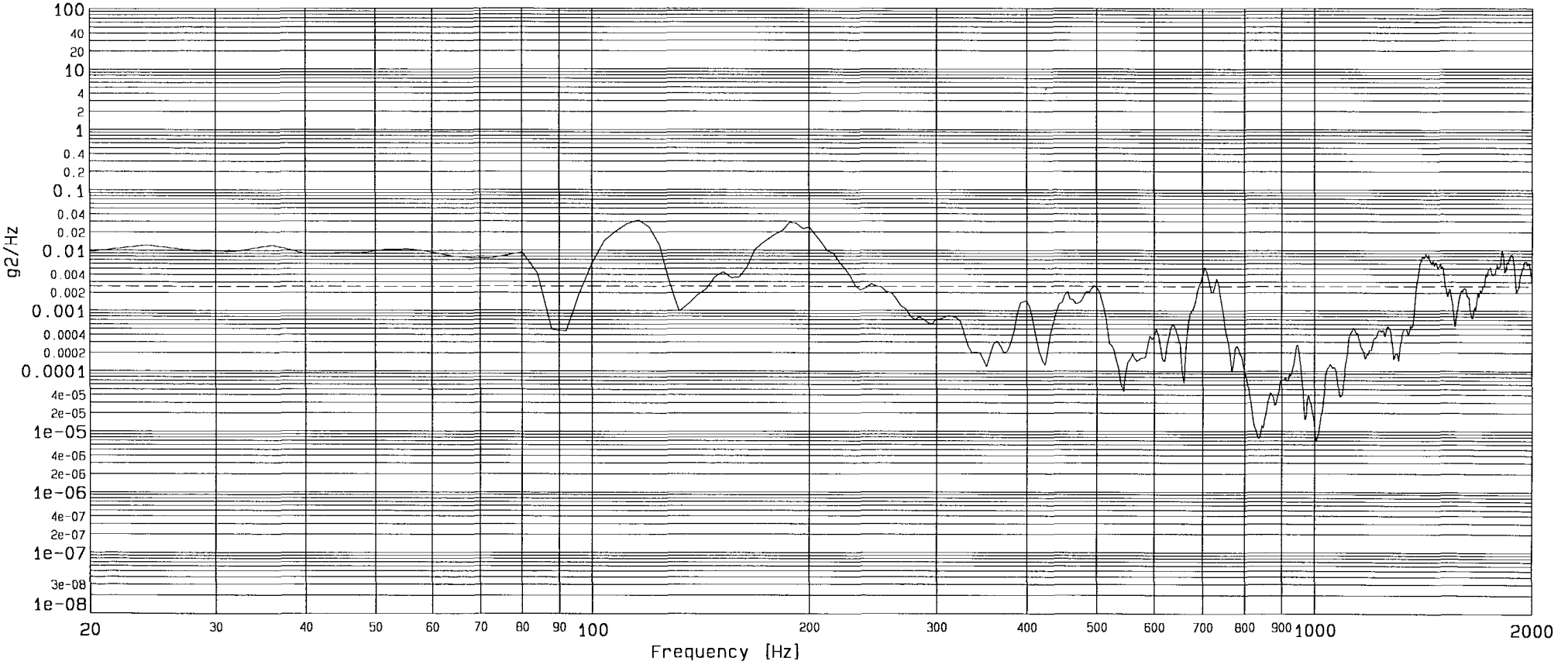
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.36 g
Number of averages : 119

Trace identification :
- A3Z_XPANEL_CC
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

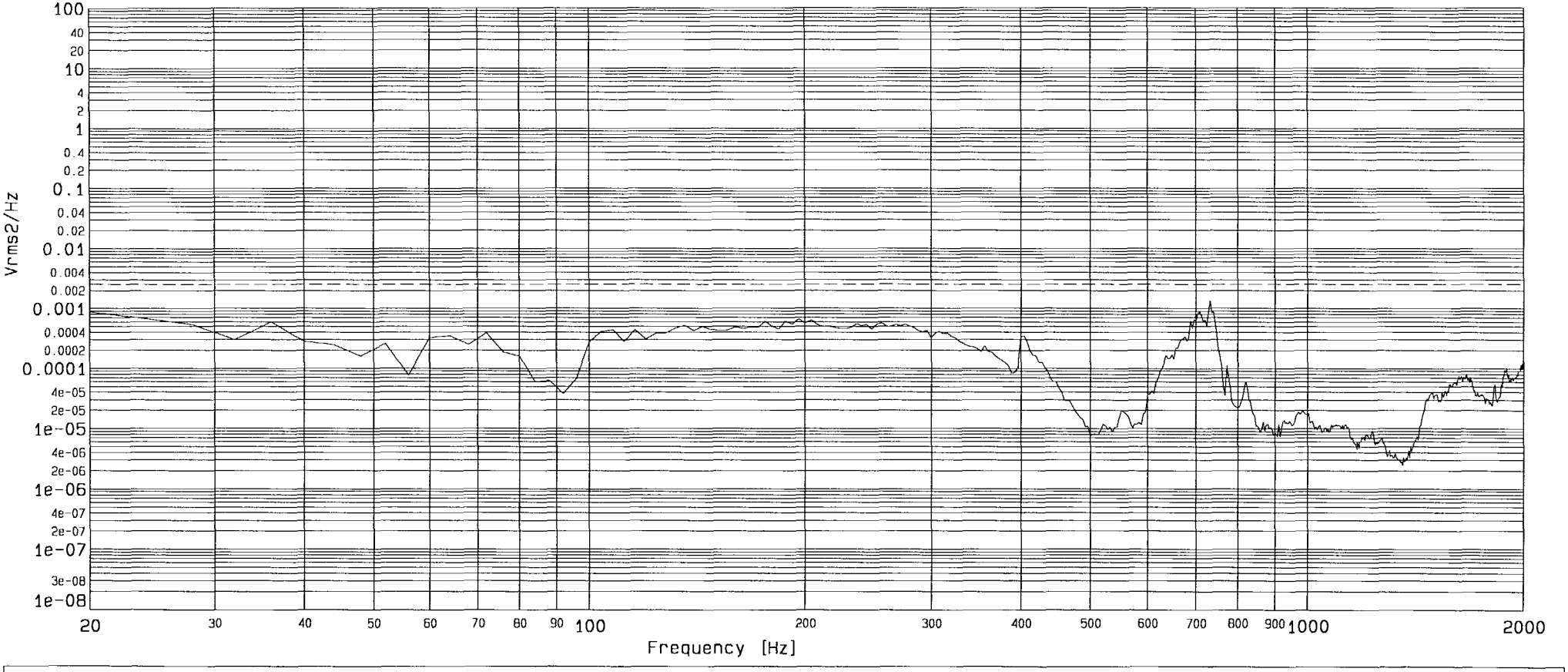
Project : hirdls
Test : Z_HIRDLS
Run : 18 062308

Date : 23-06-02
Time : 11:19:39
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:00:50.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 502.31e-03 Vrms
Number of averages : 5

Trace identification :
- Drive PSD
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM full level

run 062308

date 06-23-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

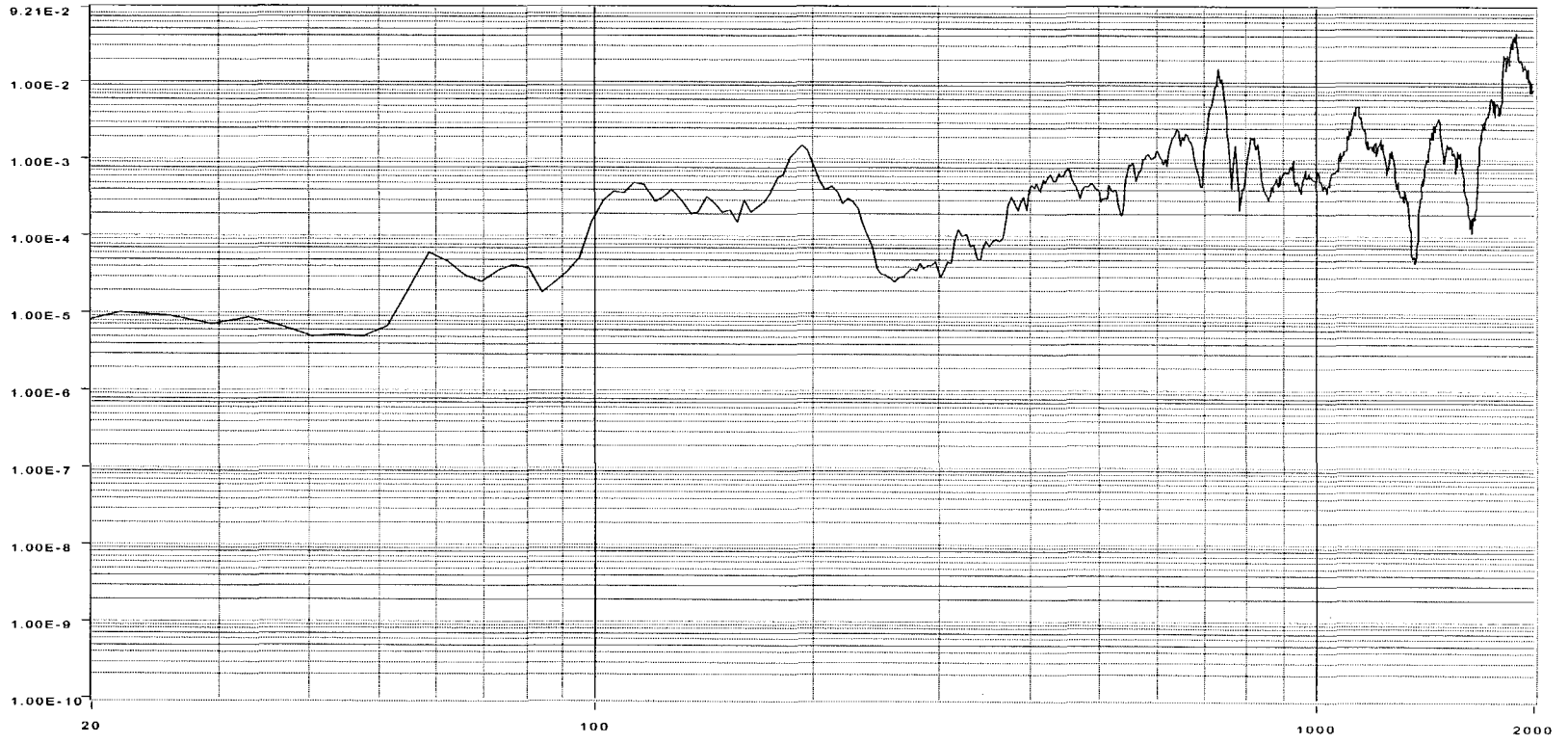
Channel #: 1 **Node Number:** 0001

Channel Label: North_Control_X

Channel Description:

Start Time: 35.00

RMS= 2.458E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_X

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

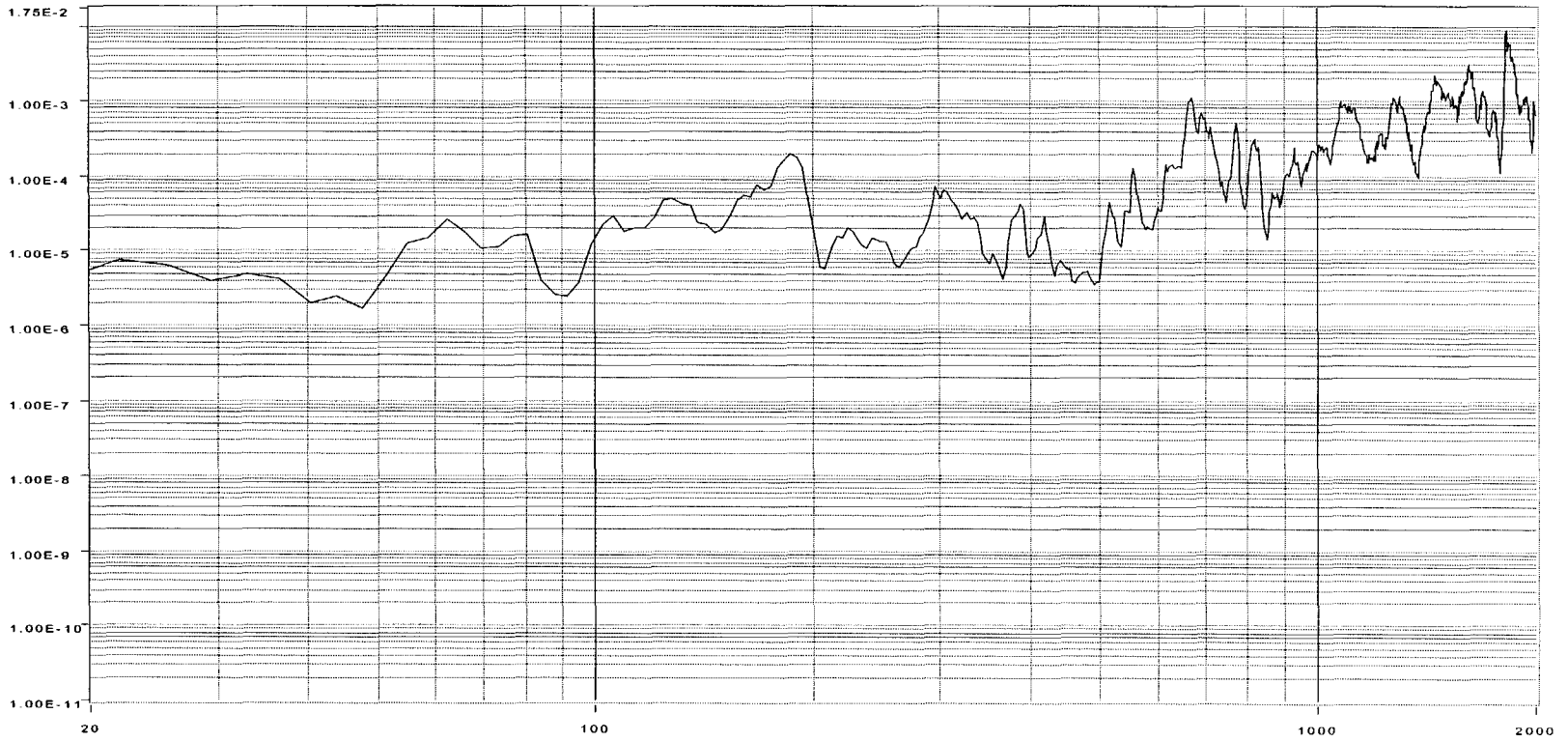
Channel #: 2 **Node Number:** 0002

Channel Label: North_Control_Y

Channel Description:

Start Time: 35.00

RMS= 1.059E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Y

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

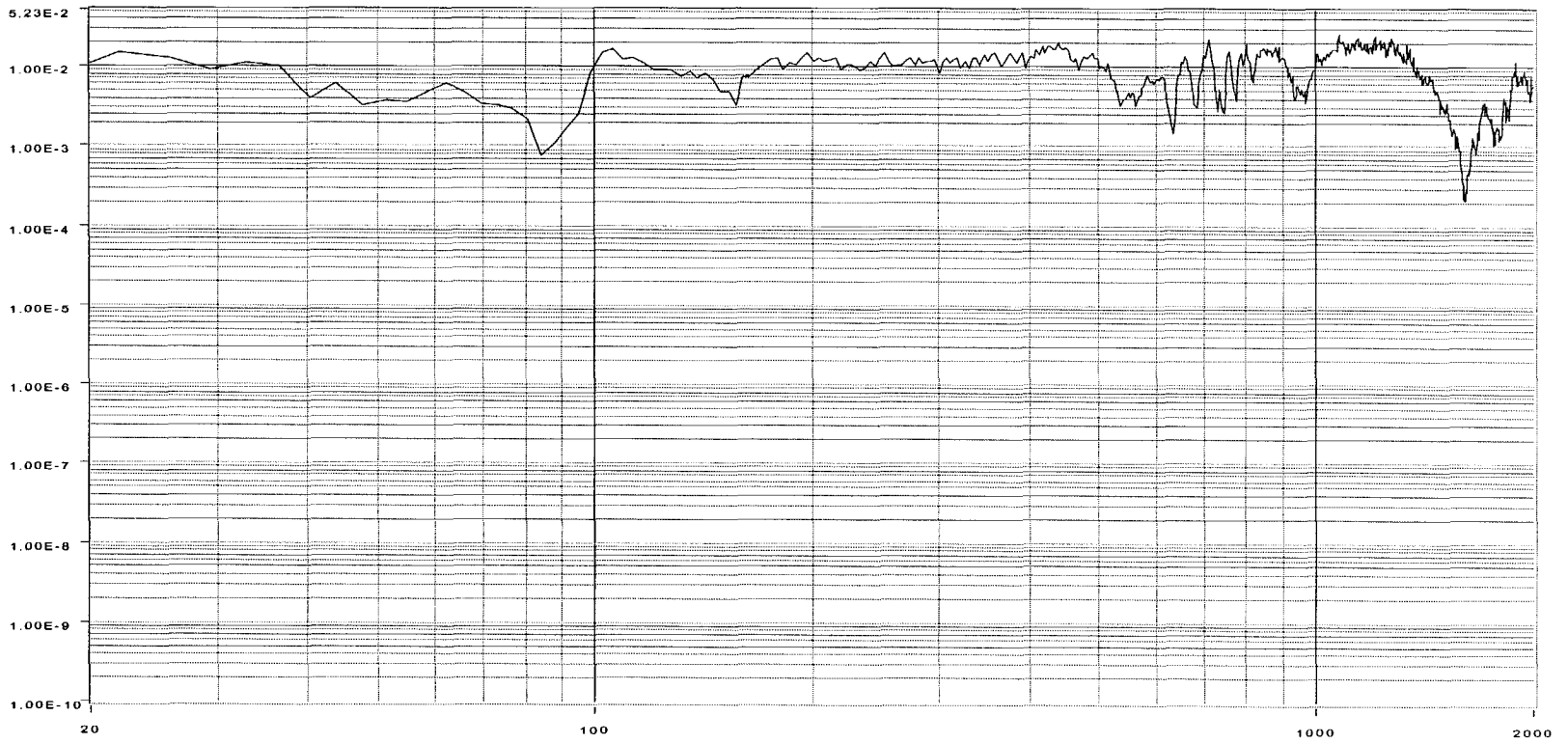
Channel #: 3 Node Number: 0003

Channel Label: North_Control_Z

Channel Description:

Start Time: 35.00

RMS= 4.286E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Z

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

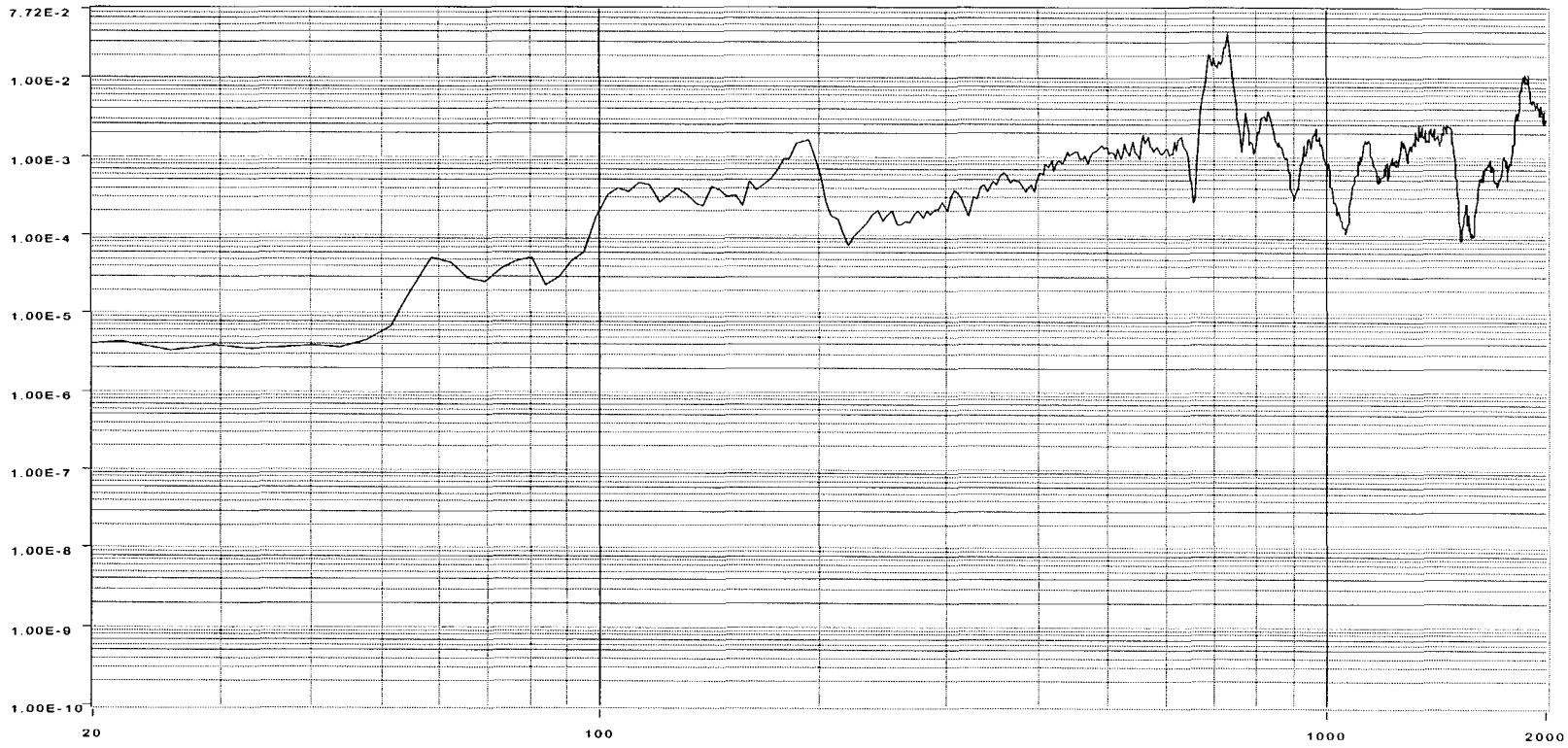
Channel #: 4 Node Number: 0004

Channel Label: South_Control_X

Channel Description: I

Start Time: 35.00

RMS= 1.978E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_X

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

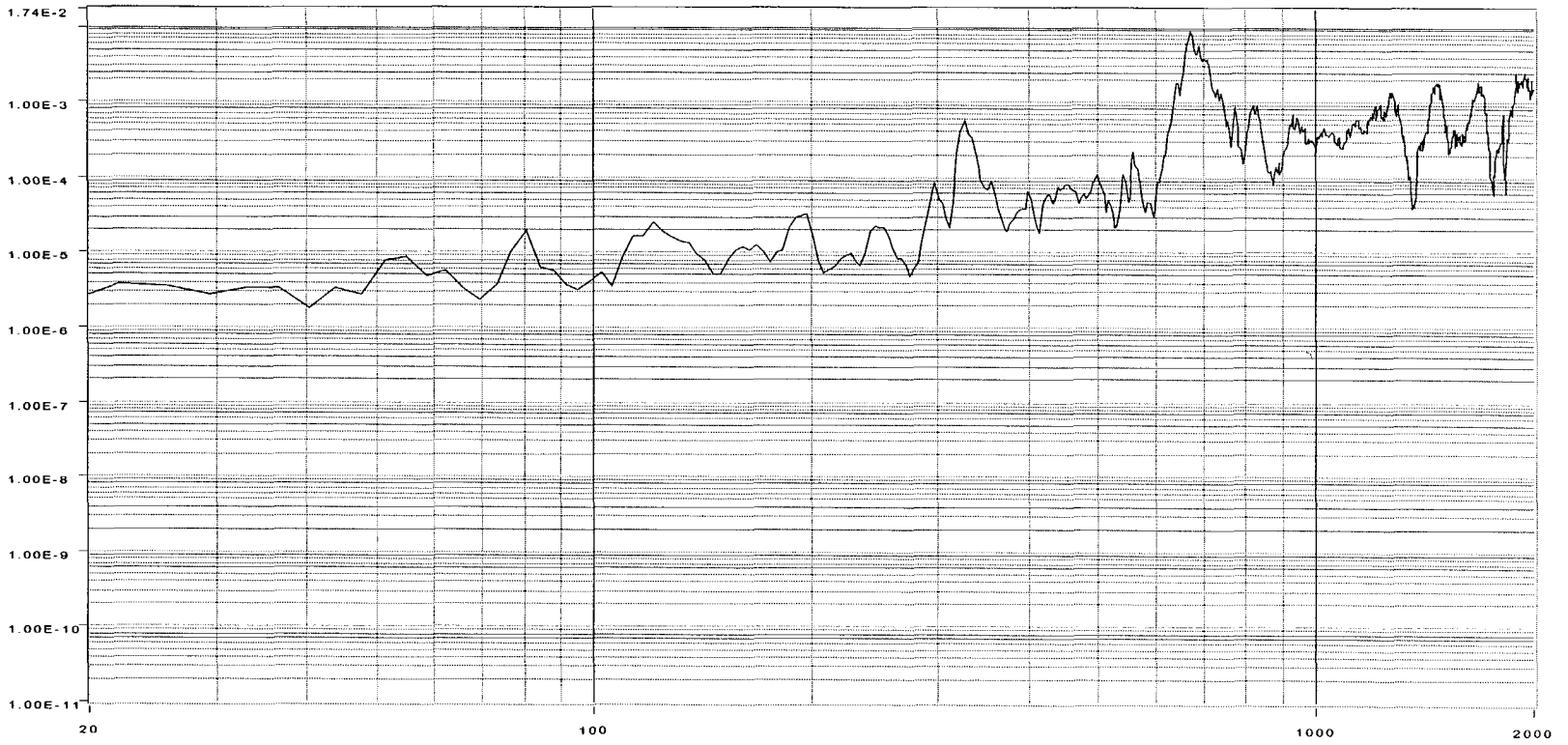
Channel #: 5 Node Number: 0005

Channel Label: South_Control_Y

Channel Description:

Start Time: 35.00

RMS= 1.100E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Y

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

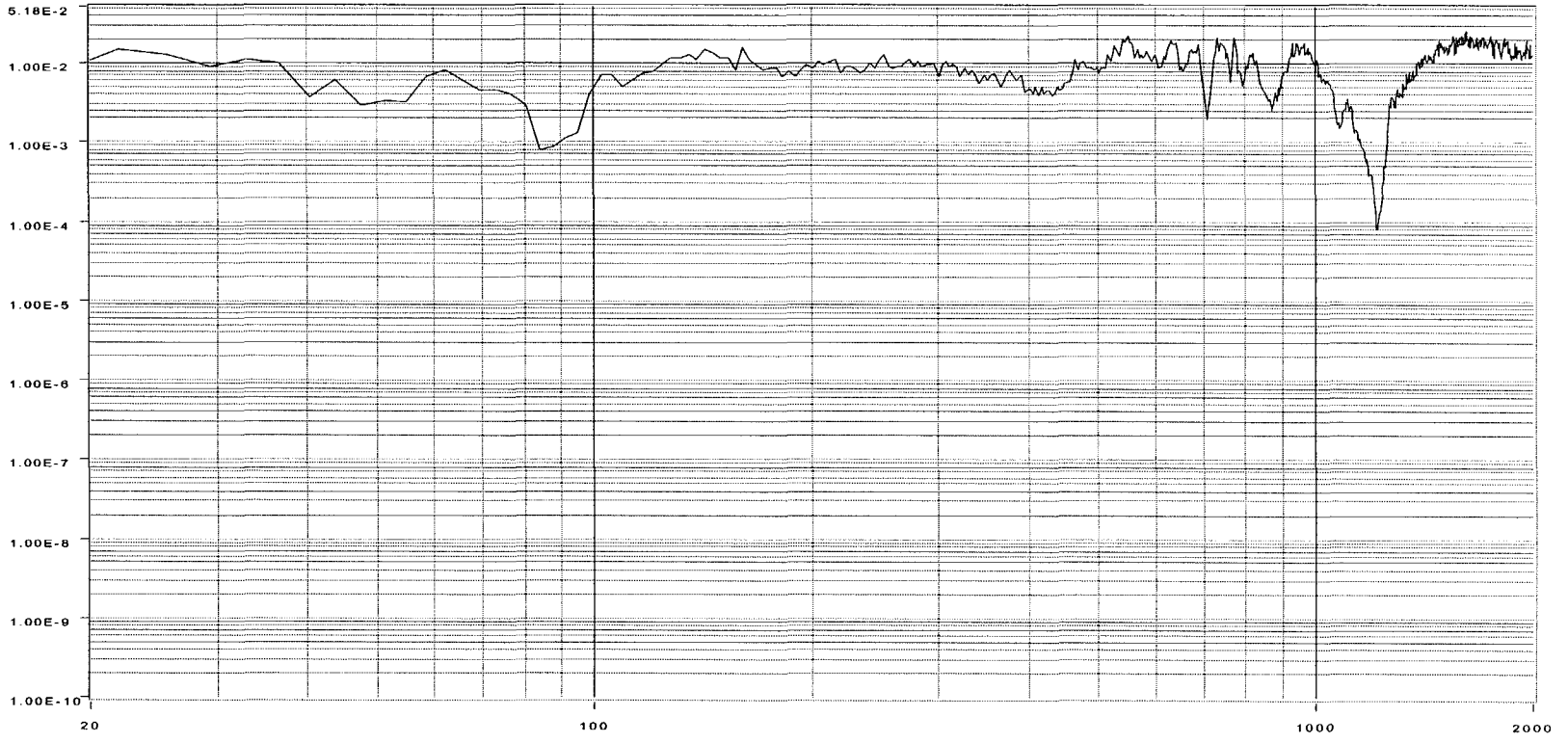
Channel #: 6 **Node Number:** 0006

Channel Label: South_Control_Z

Channel Description:

Start Time: 35.00

RMS= 4.487E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Z

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/Id: Y4011

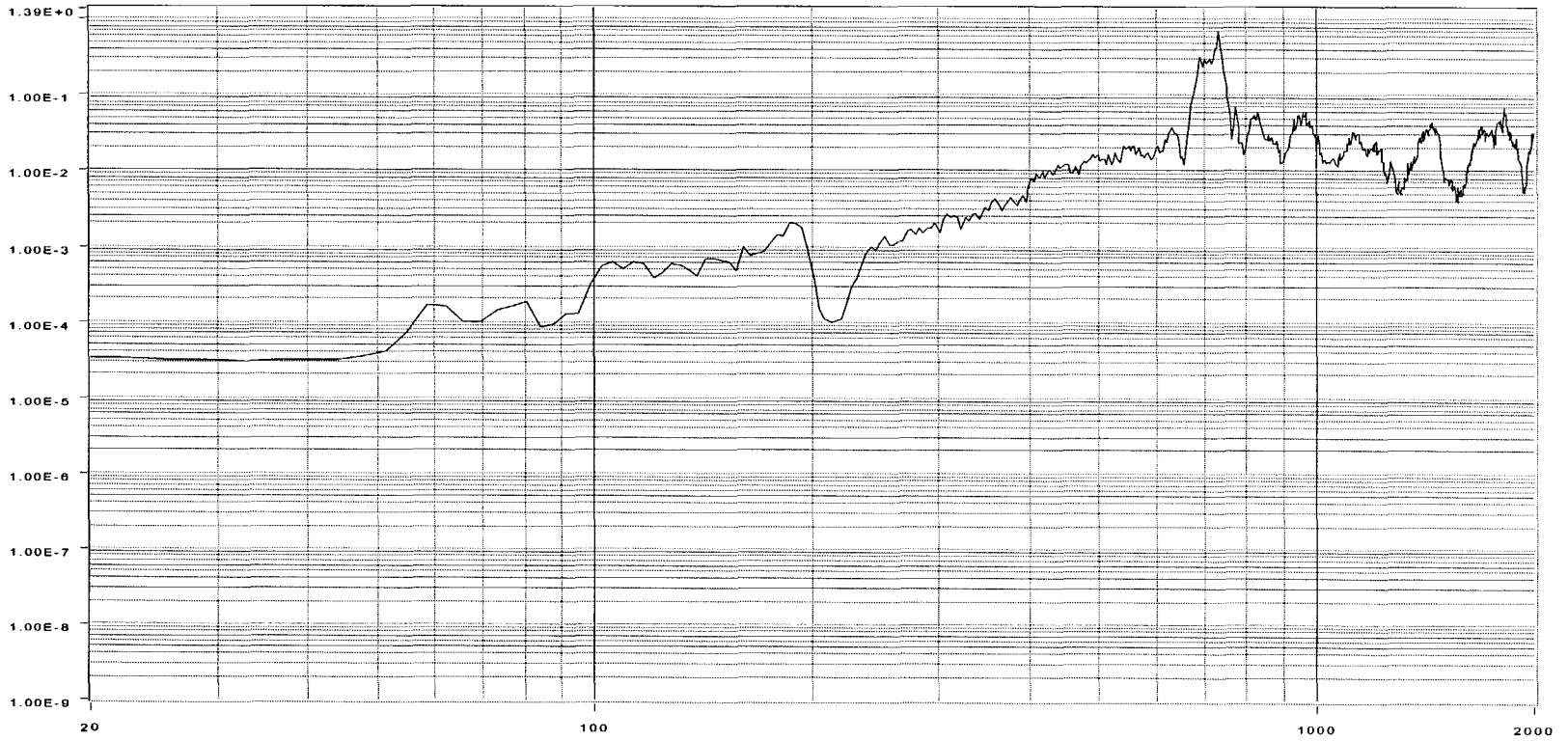
Channel #: 7 Node Number: 0007

Channel Label: A5 X

Channel Description:

Start Time: 35.00

RMS= 7.555E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

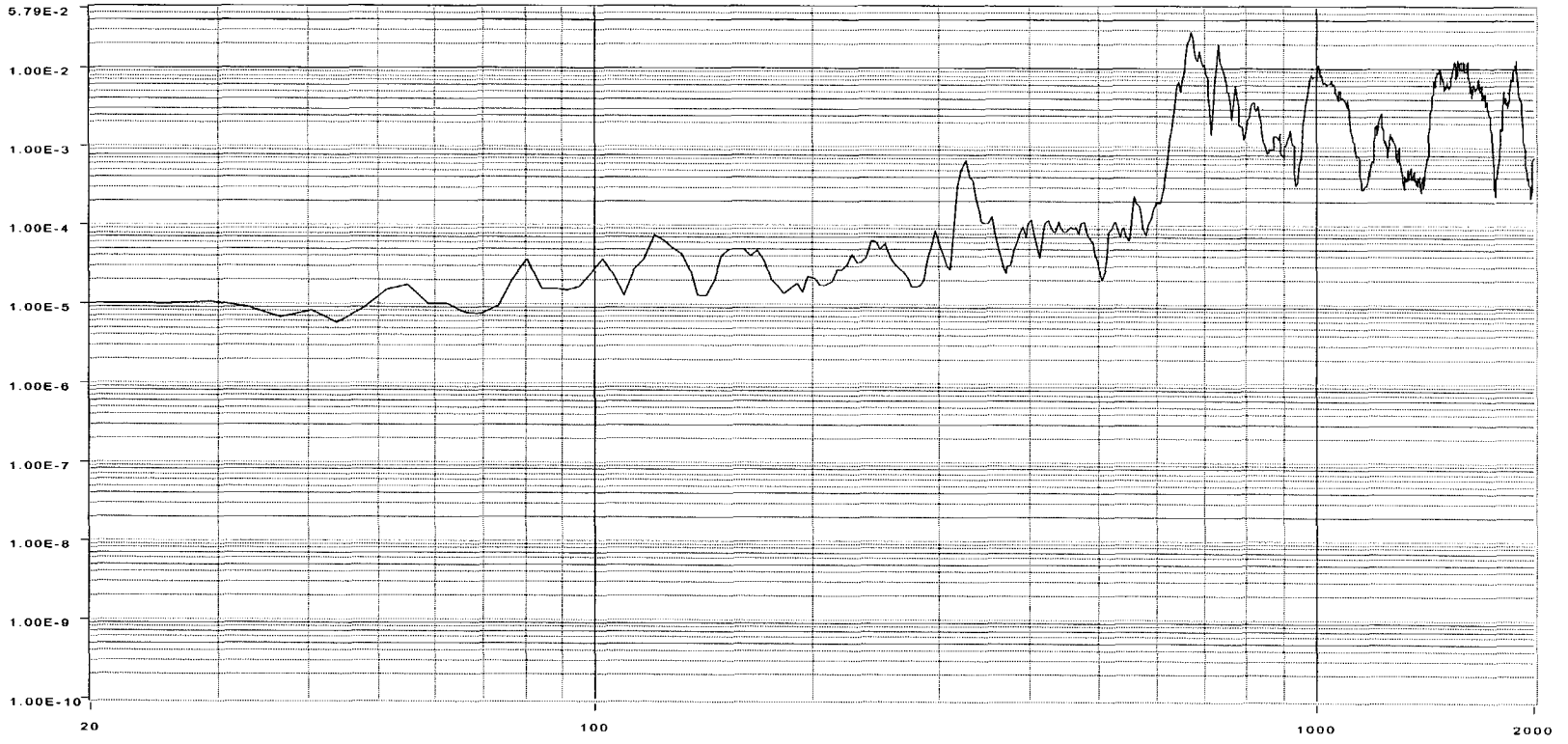
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 35.00

RMS= 2.419E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

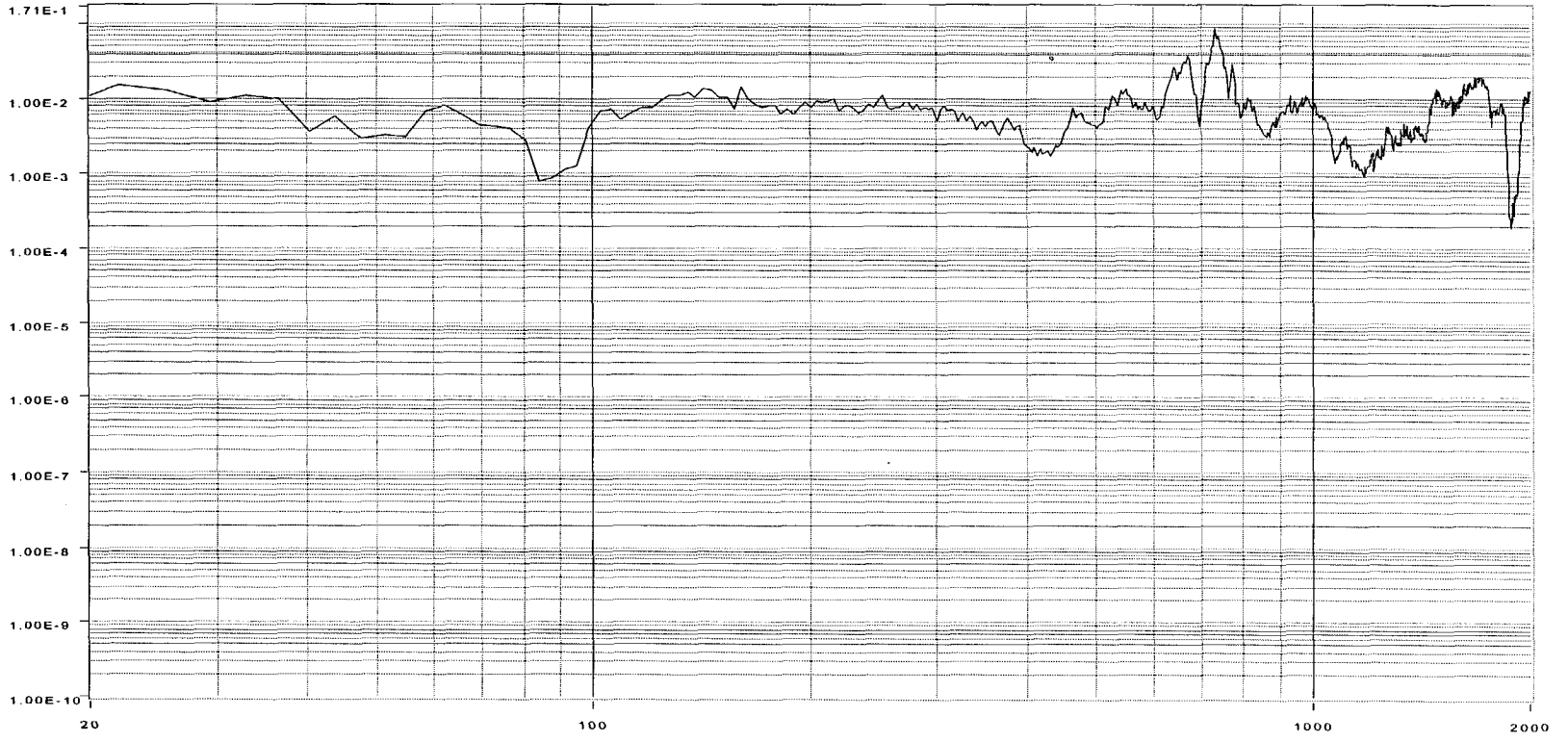
Channel #: 9 Node Number: 0009

Channel Label: A5 Z

Channel Description:

Start Time: 35.00

RMS= 4.006E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Z

Analysis Date & time: 6/23/02 4:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

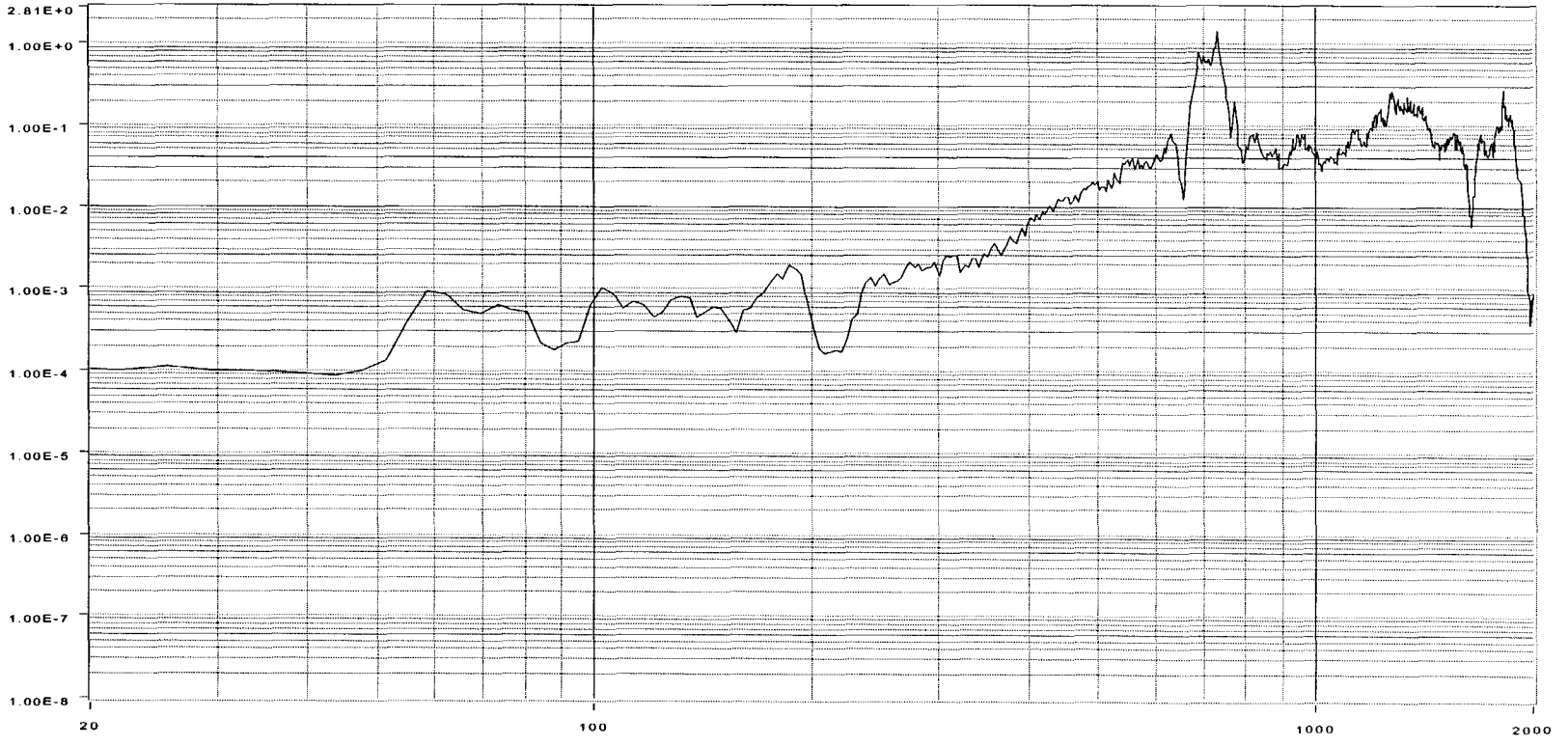
Channel #: 10 Node Number: 0010

Channel Label: A6 X

Channel Description:

Start Time: 35.00

RMS= 1.238E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

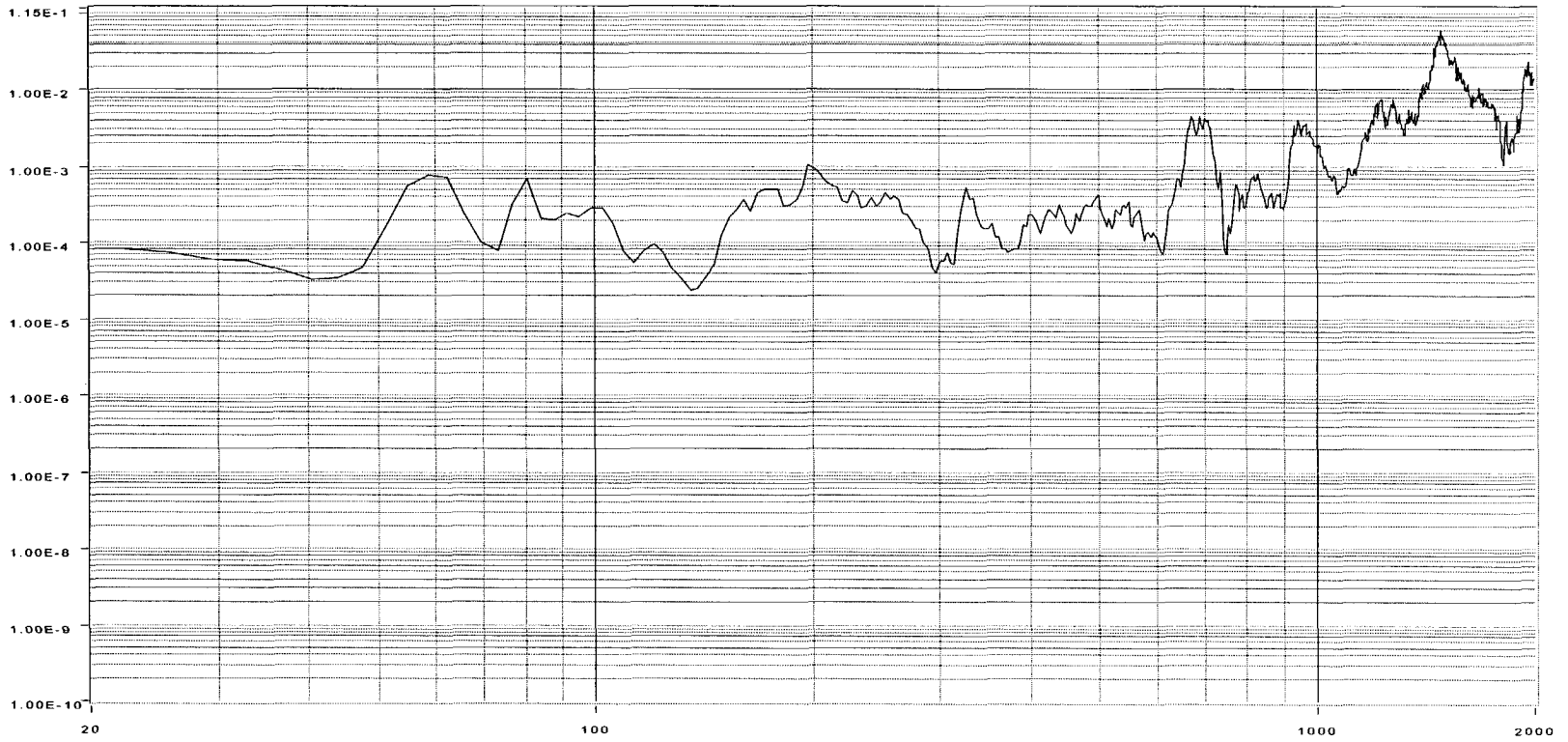
Channel #: 11 Node Number: 0011

Channel Label: A6 Y

Channel Description:

Start Time: 35.00

RMS= 3.107E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

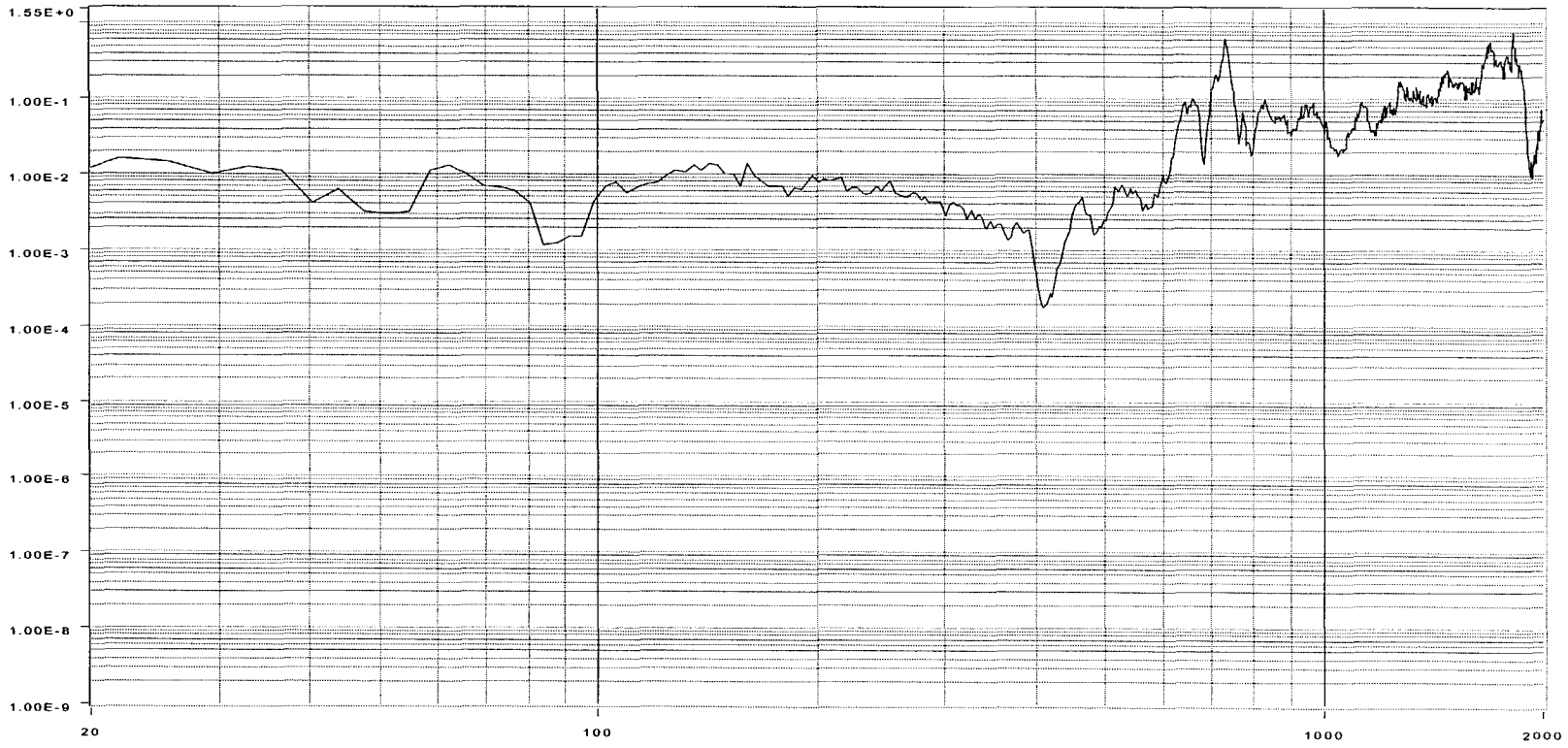
Channel #: 12 Node Number: 0012

Channel Label: A6 Z

Channel Description:

Start Time: 35.00

RMS= 1.359E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

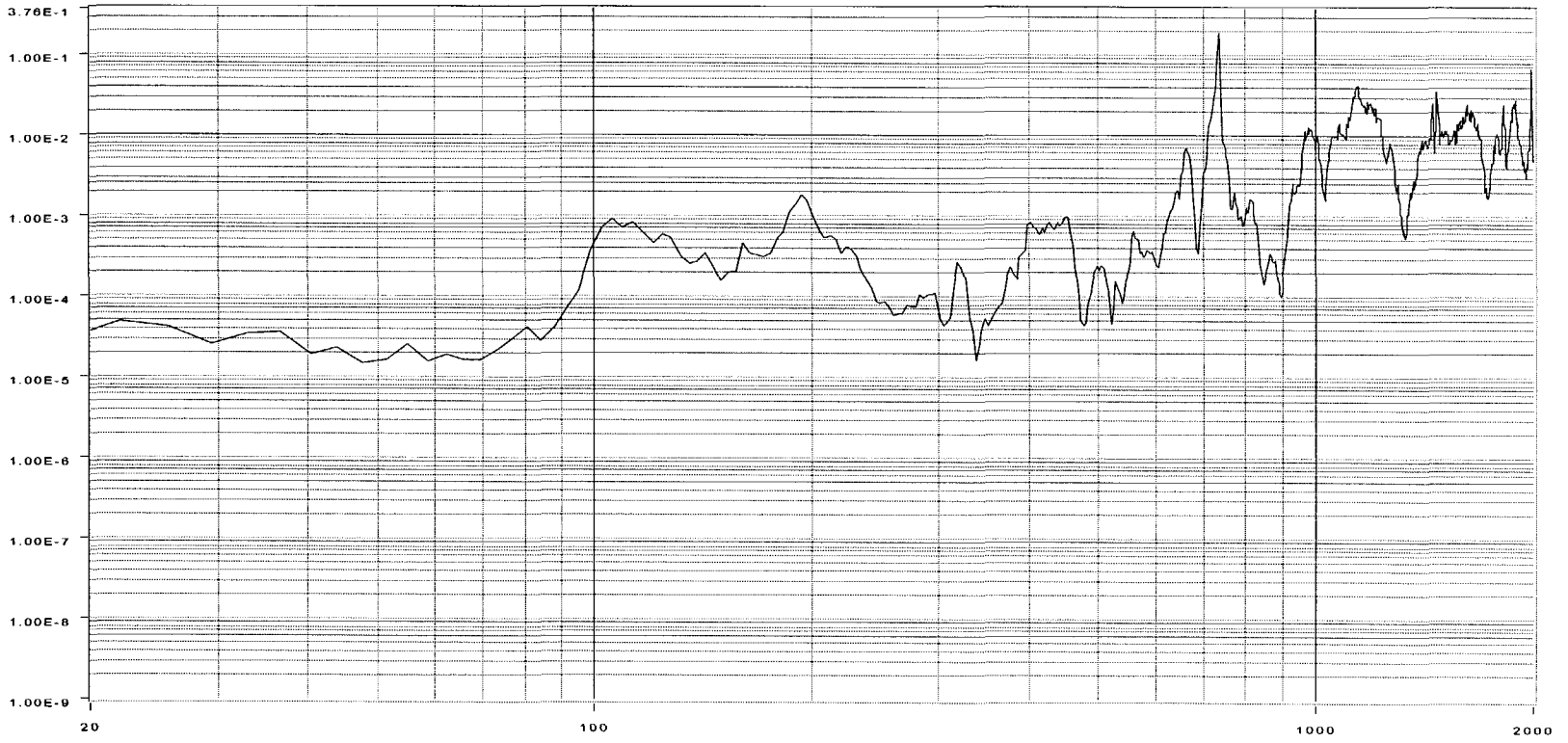
Channel #: 17 **Node Number:** 0017

Channel Label: A7 X

Channel Description:

Start Time: 35.00

RMS= 3.753E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

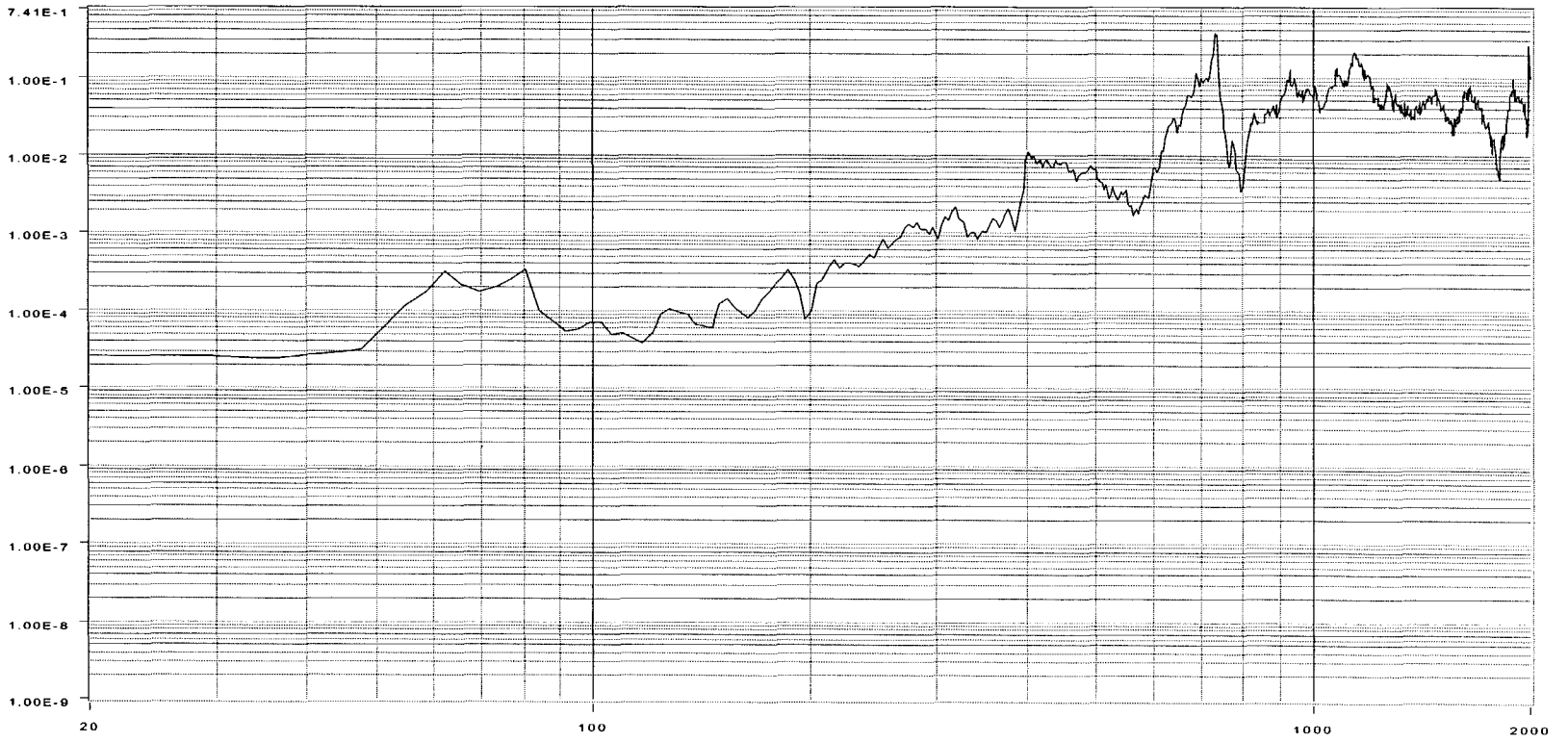
Channel #: 18 Node Number: 0018

Channel Label: A7 Y

Channel Description:

Start Time: 35.00

RMS= 8.740E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

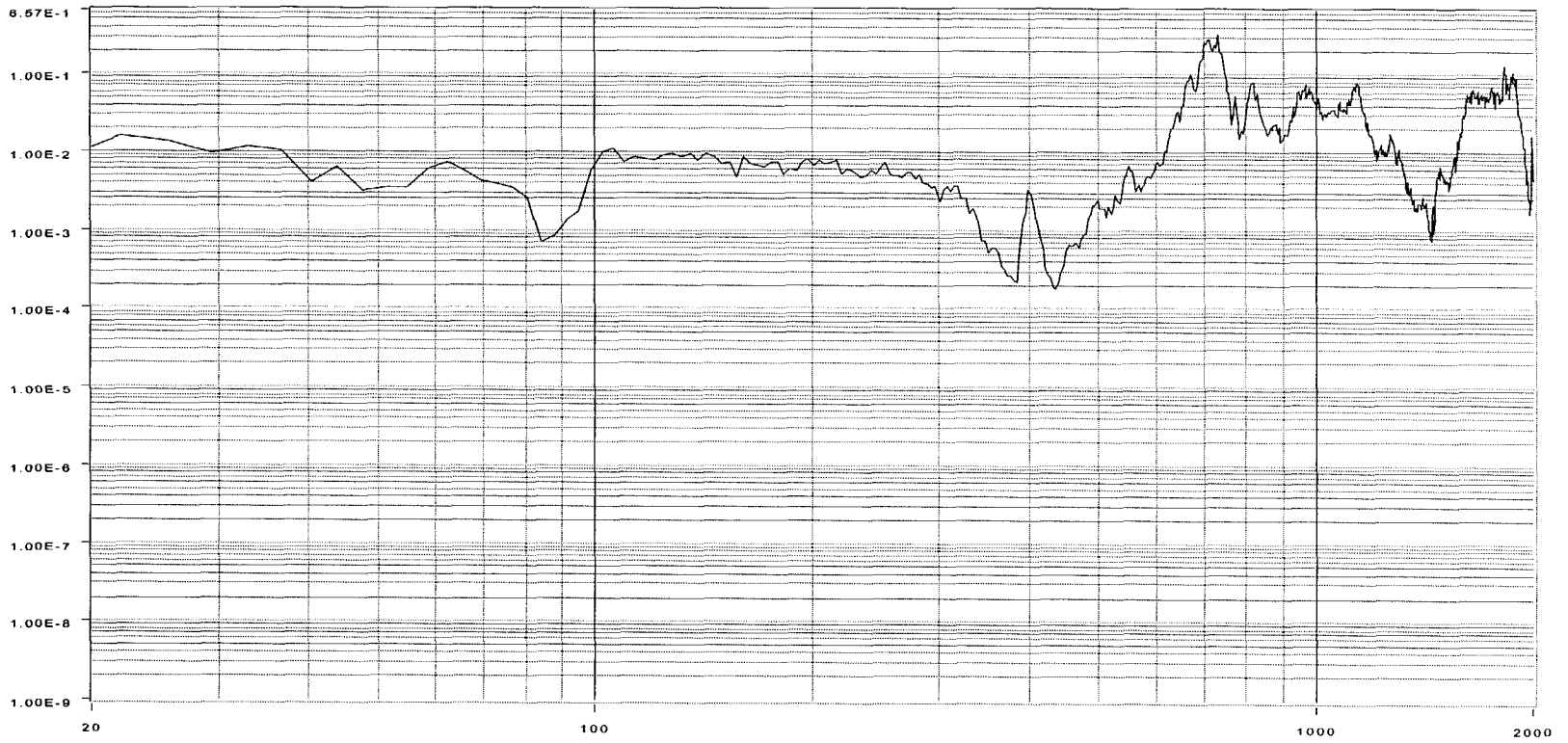
Channel #: 19 **Node Number:** 0019

Channel Label: A7 Z

Channel Description:

Start Time: 35.00

RMS= 7.637E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

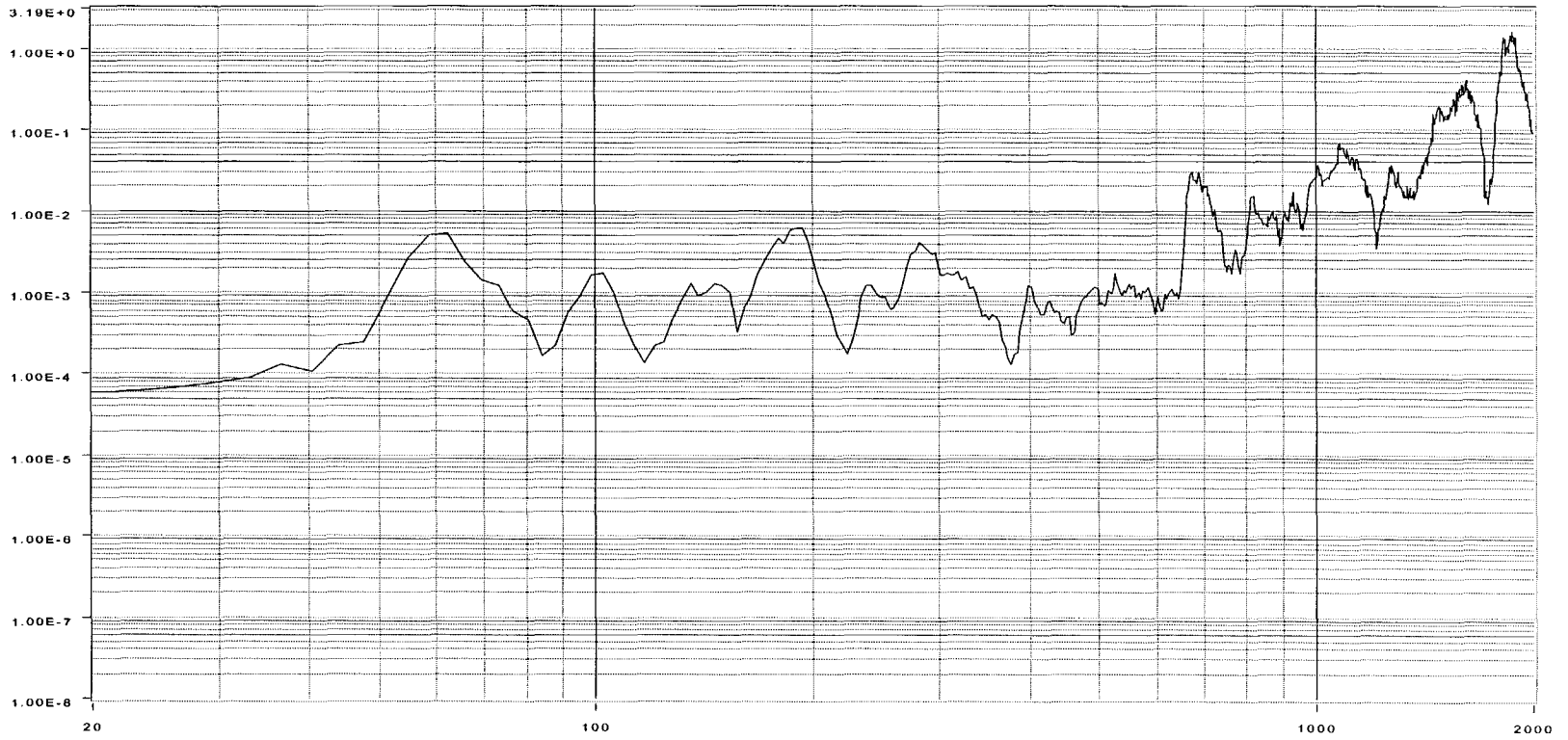
Channel #: 20 **Node Number:** 0020

Channel Label: A8 X

Channel Description:

Start Time: 35.00

RMS= 1.482E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

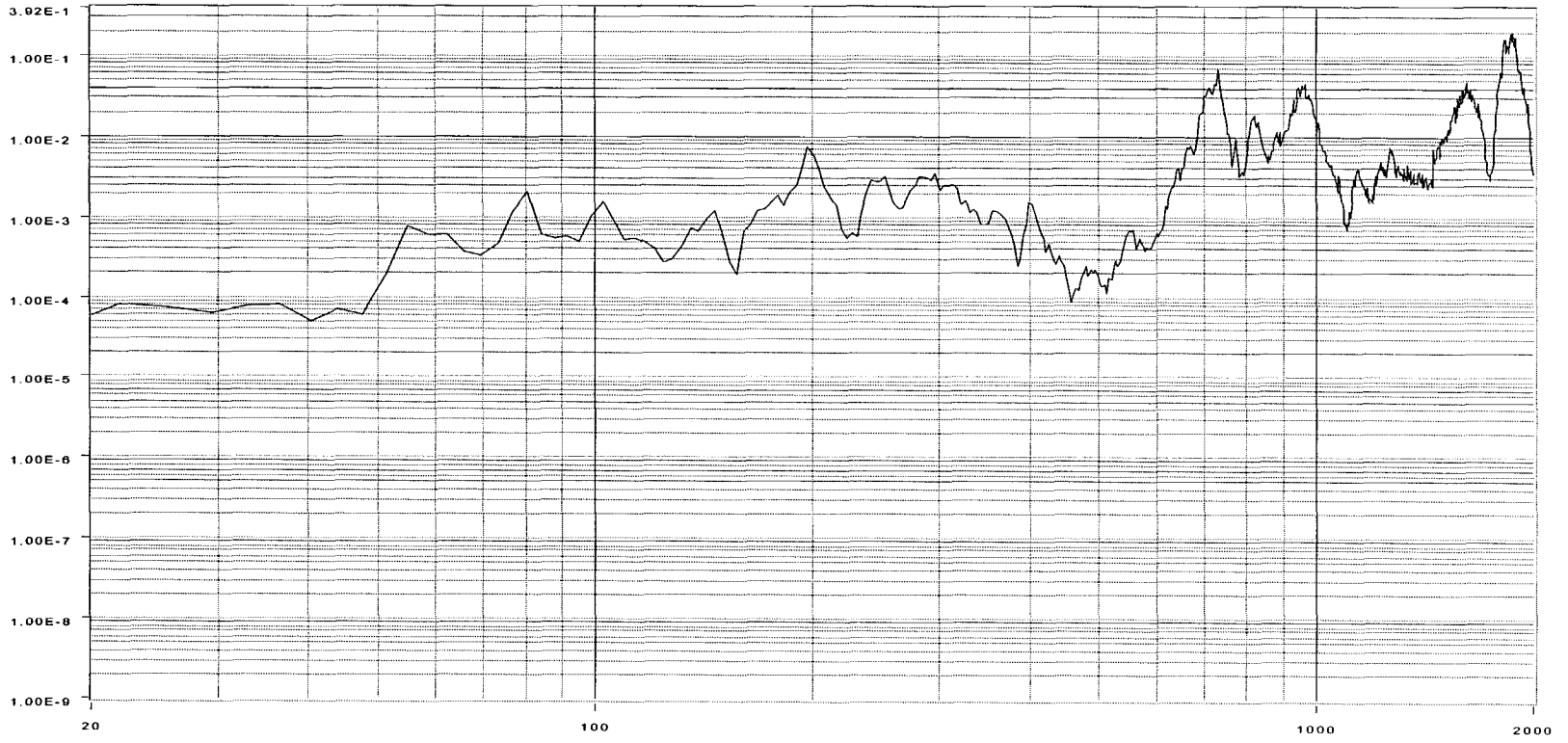
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 35.00

RMS= 5.662E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

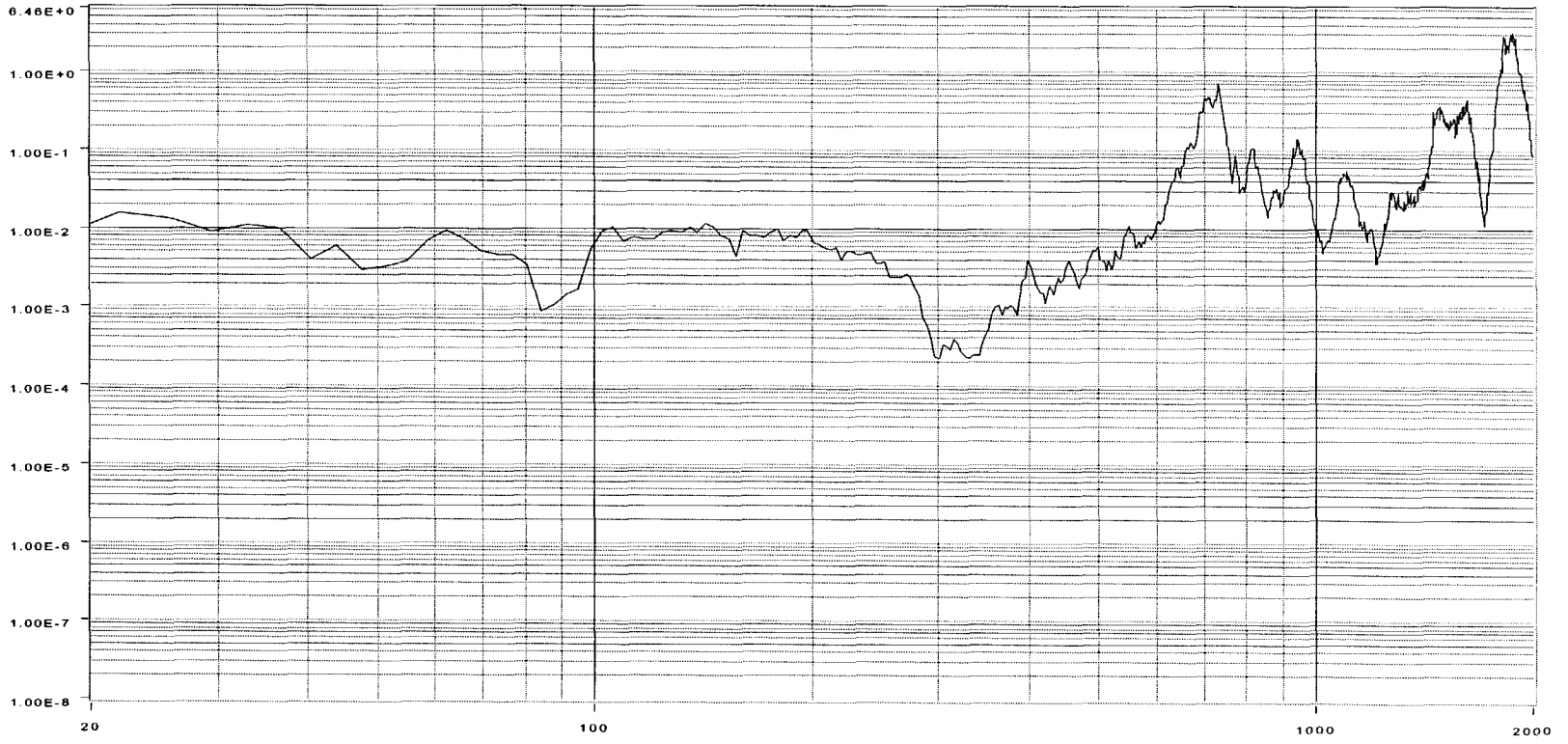
Channel #: 22 Node Number: 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 35.00

RMS= 2.034E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

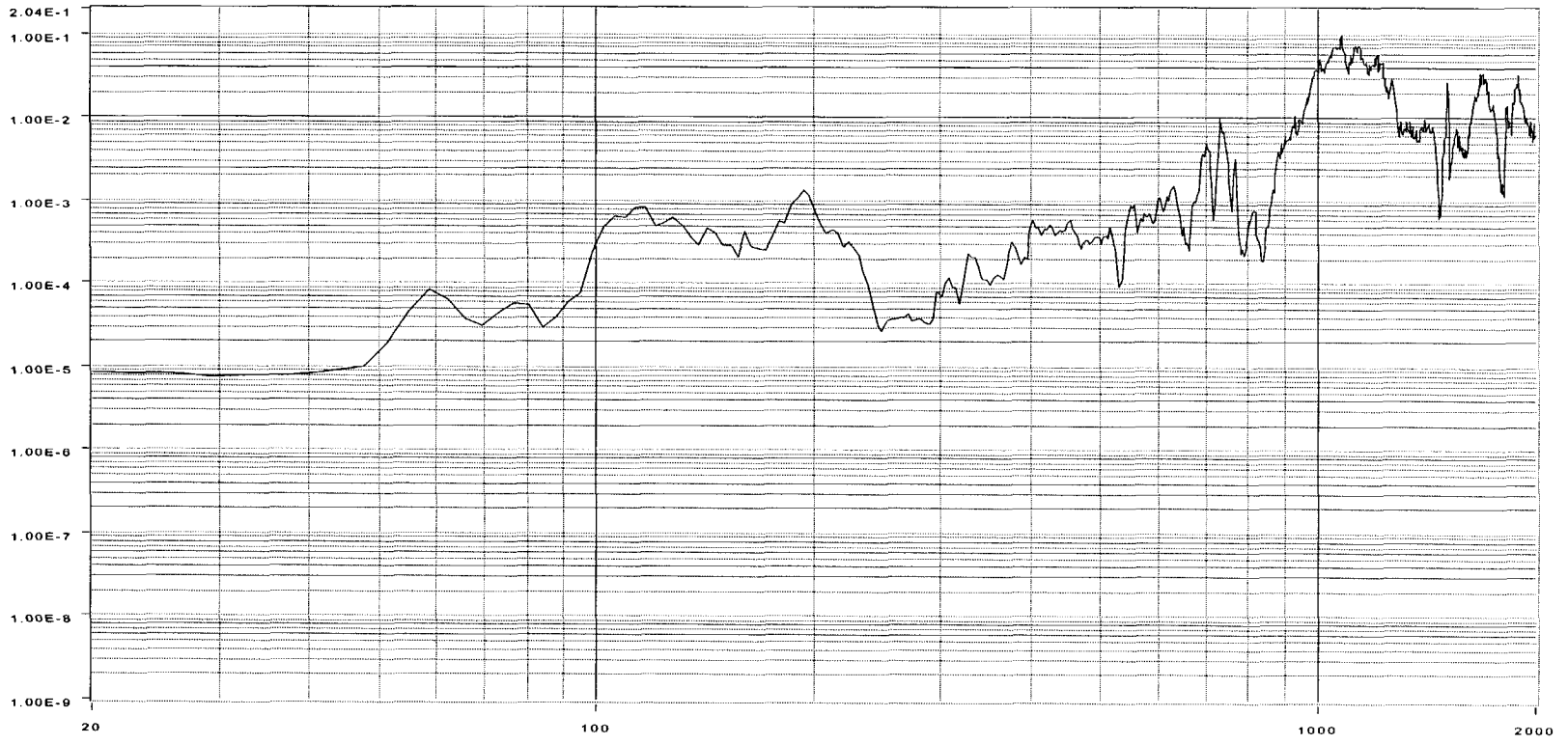
Channel #: 23 Node Number: 0023

Channel Label: A9 X

Channel Description:

Start Time: 35.00

RMS= 4.816E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

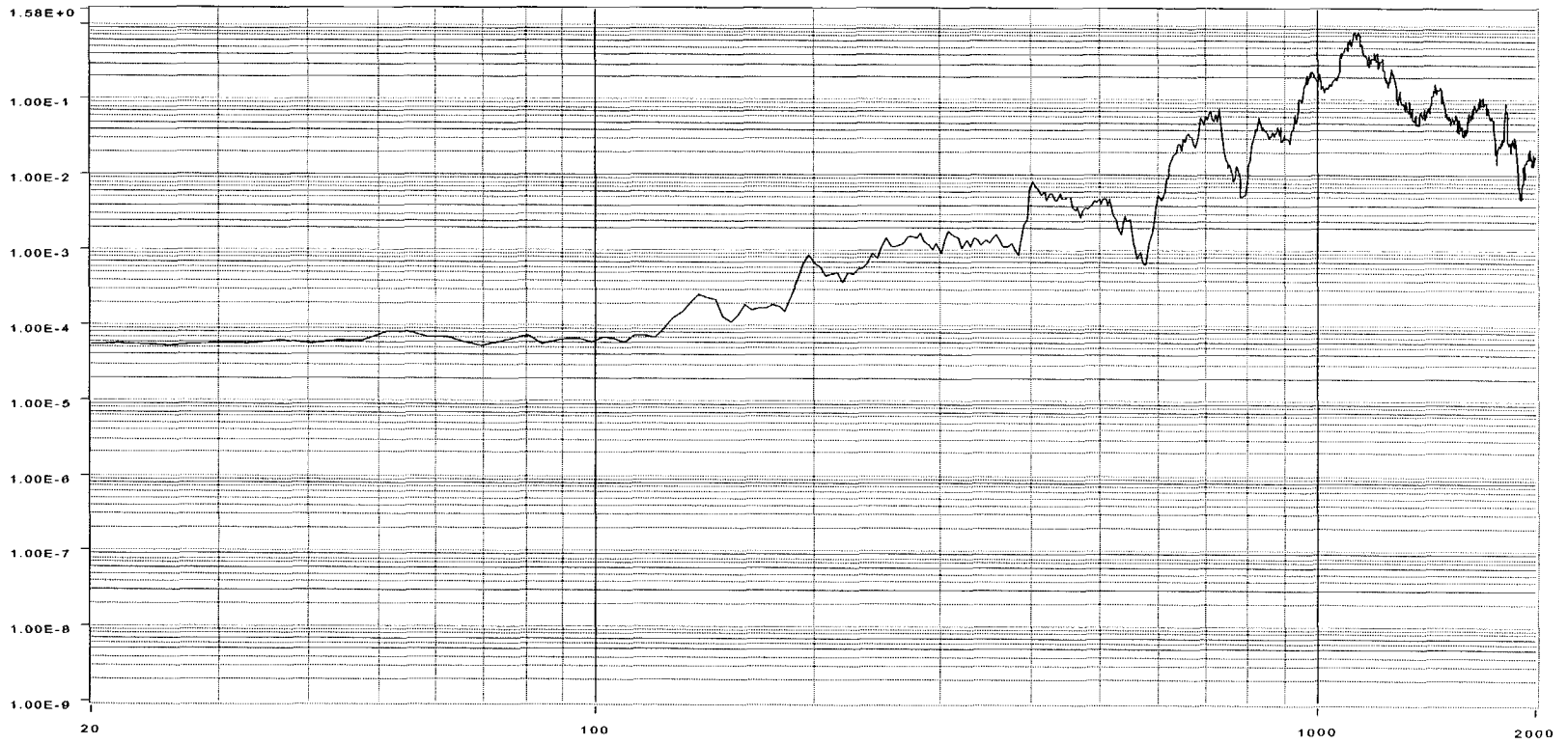
Channel #: 24 **Node Number:** 0024

Channel Label: A9 Y

Channel Description:

Start Time: 35.00

RMS= 1.266E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

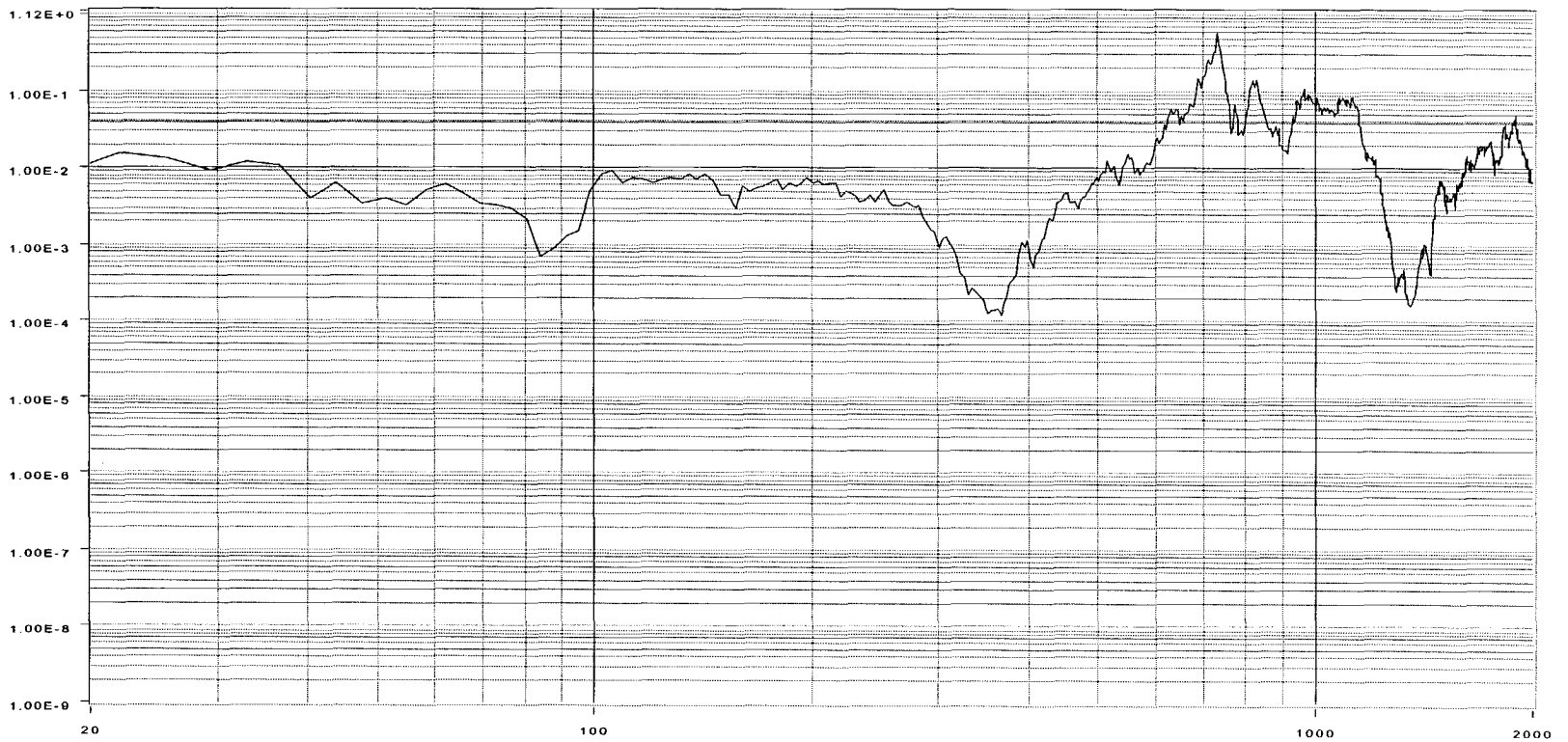
Channel #: 25 Node Number: 0025

Channel Label: A9 Z

Channel Description:

Start Time: 35.00

RMS= 7.539E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/23/02 4:08 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

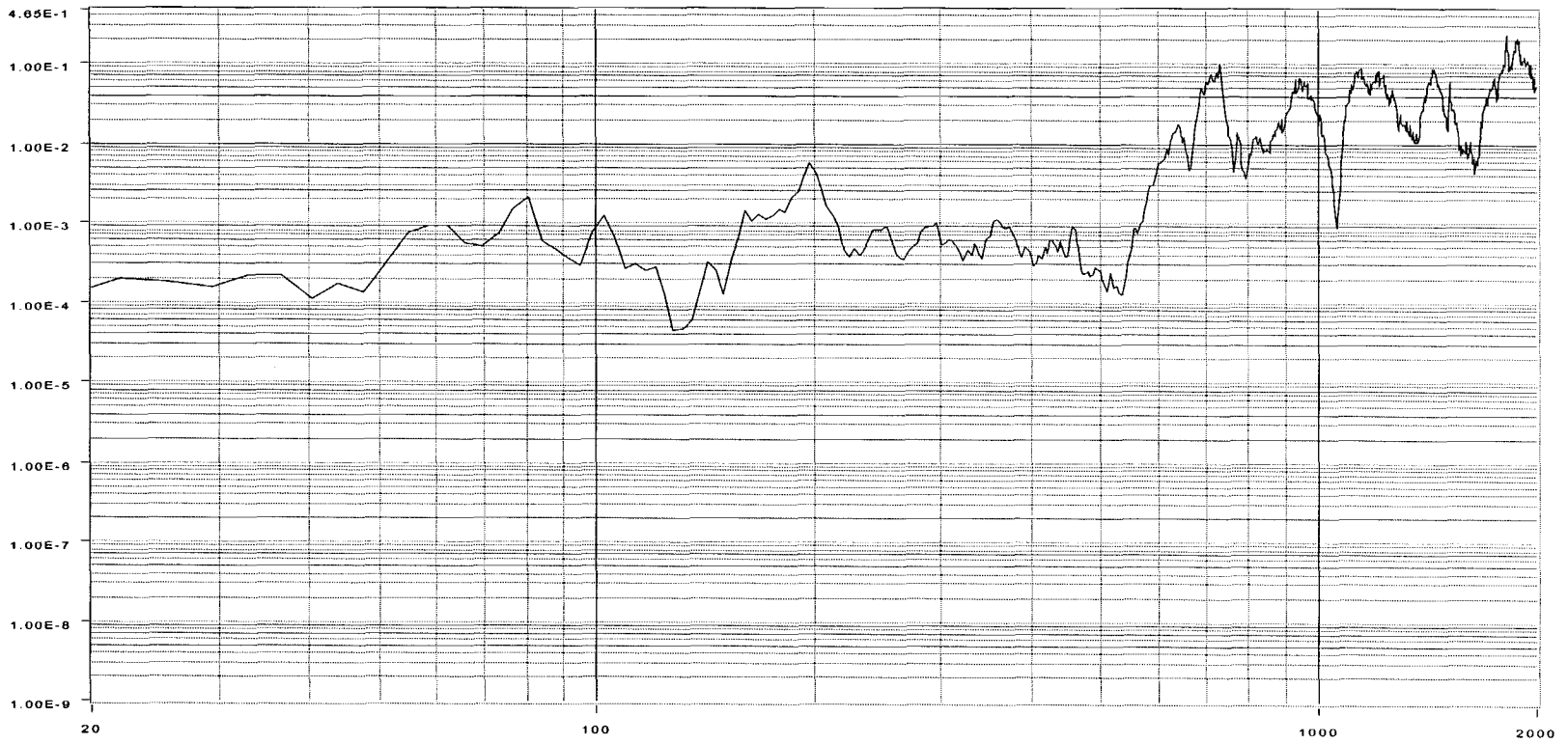
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 35.00

RMS= 7.790E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

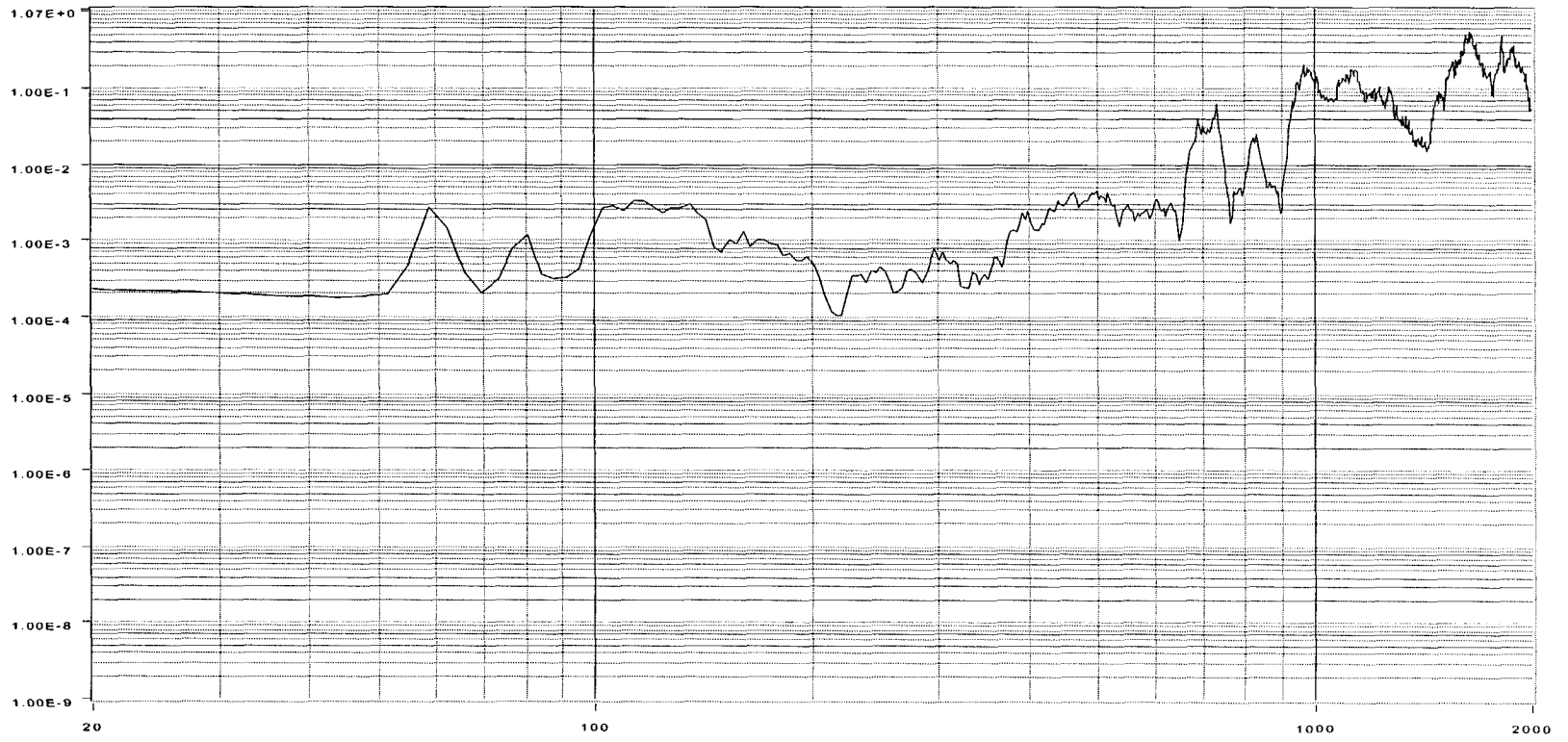
Channel #: 27 Node Number: 0027

Channel Label: A10 Y

Channel Description:

Start Time: 35.00

RMS= 1.269E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

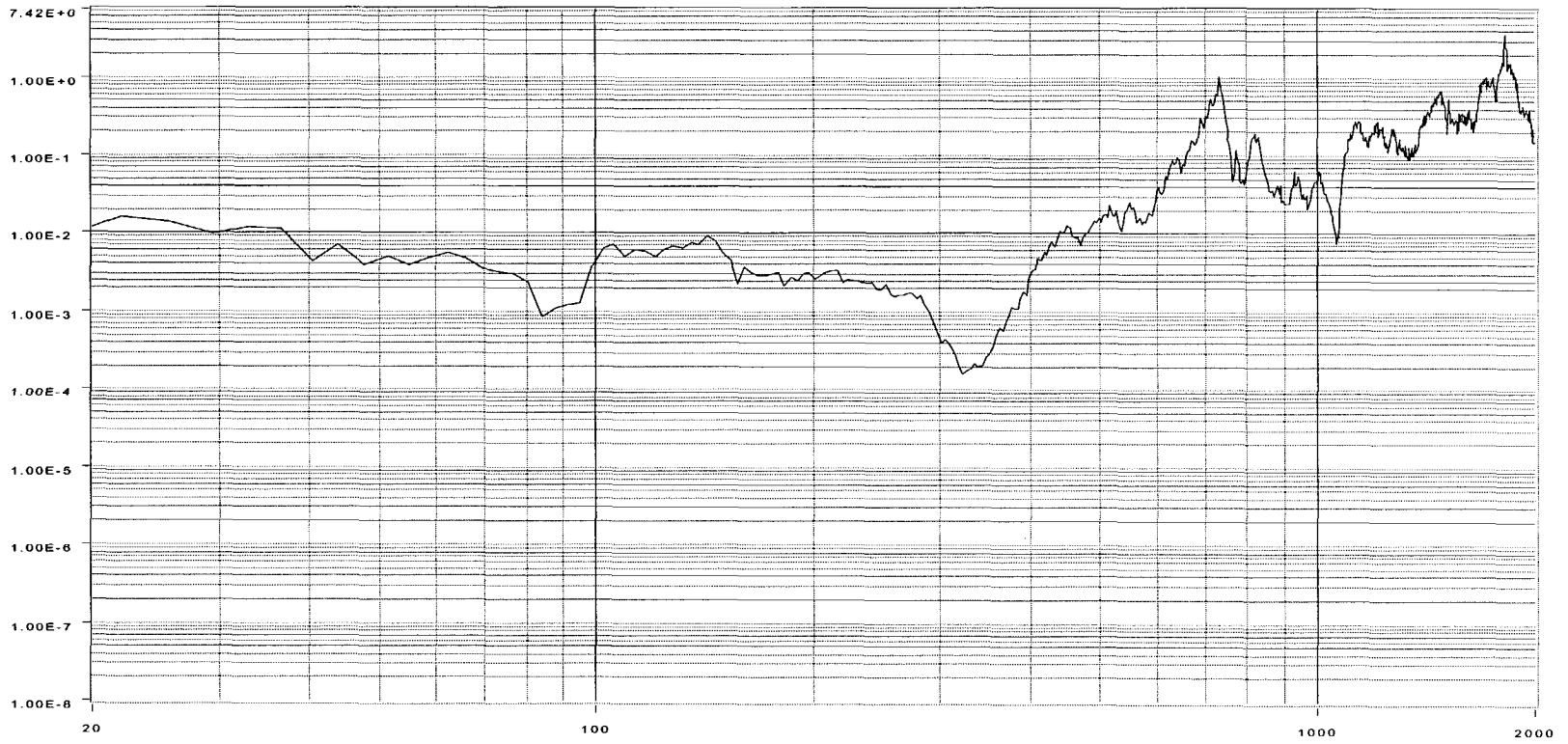
Channel #: 28 **Node Number:** 0028

Channel Label: A10 Z

Channel Description:

Start Time: 35.00

RMS= 2.236E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

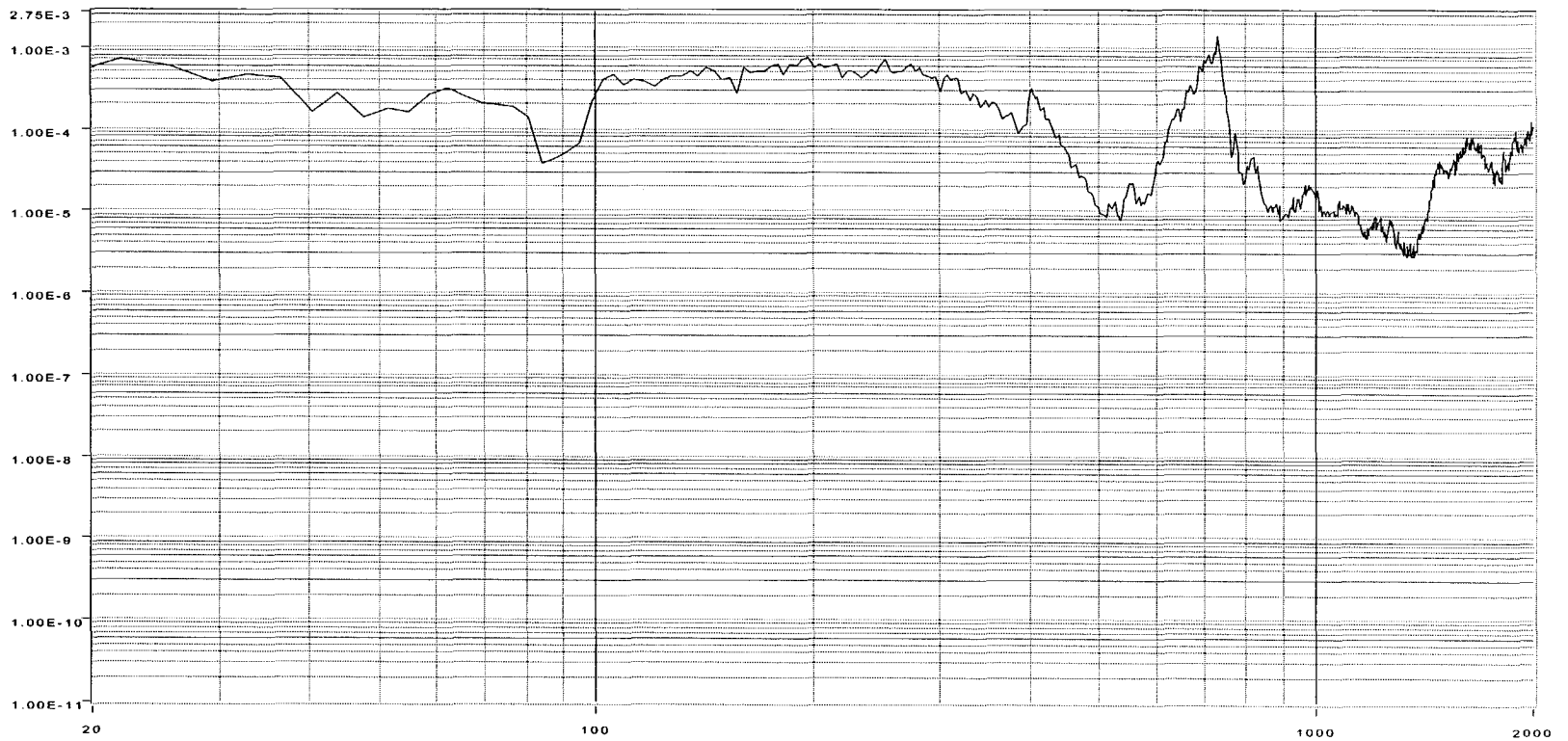
Channel #: 31 Node Number: 0031

Channel Label: DRIVE

Channel Description:

Start Time: 35.00

RMS= 5.009E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

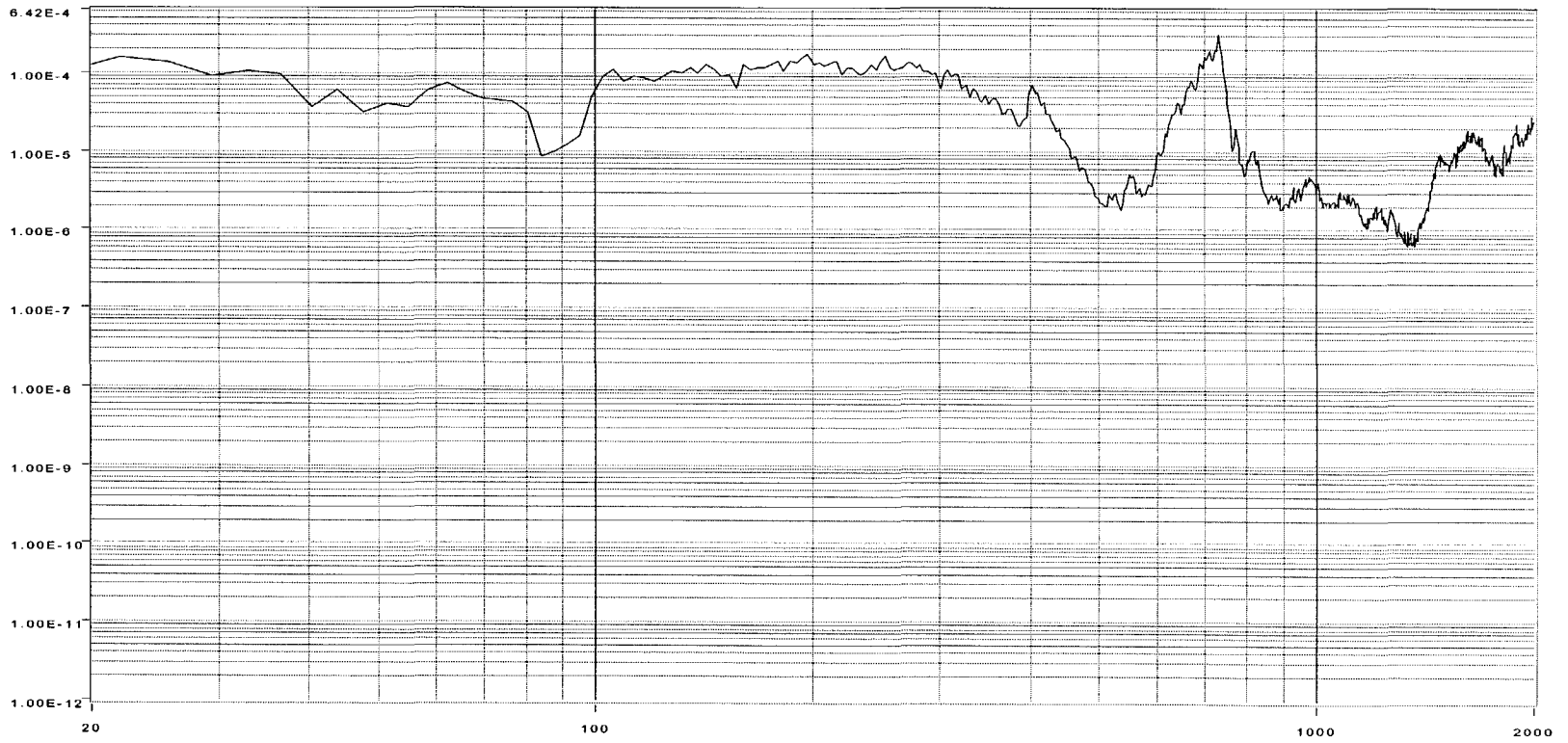
Channel #: 32 **Node Number:** 0032

Channel Label: COLA

Channel Description:

Start Time: 35.00

RMS= 2.394E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

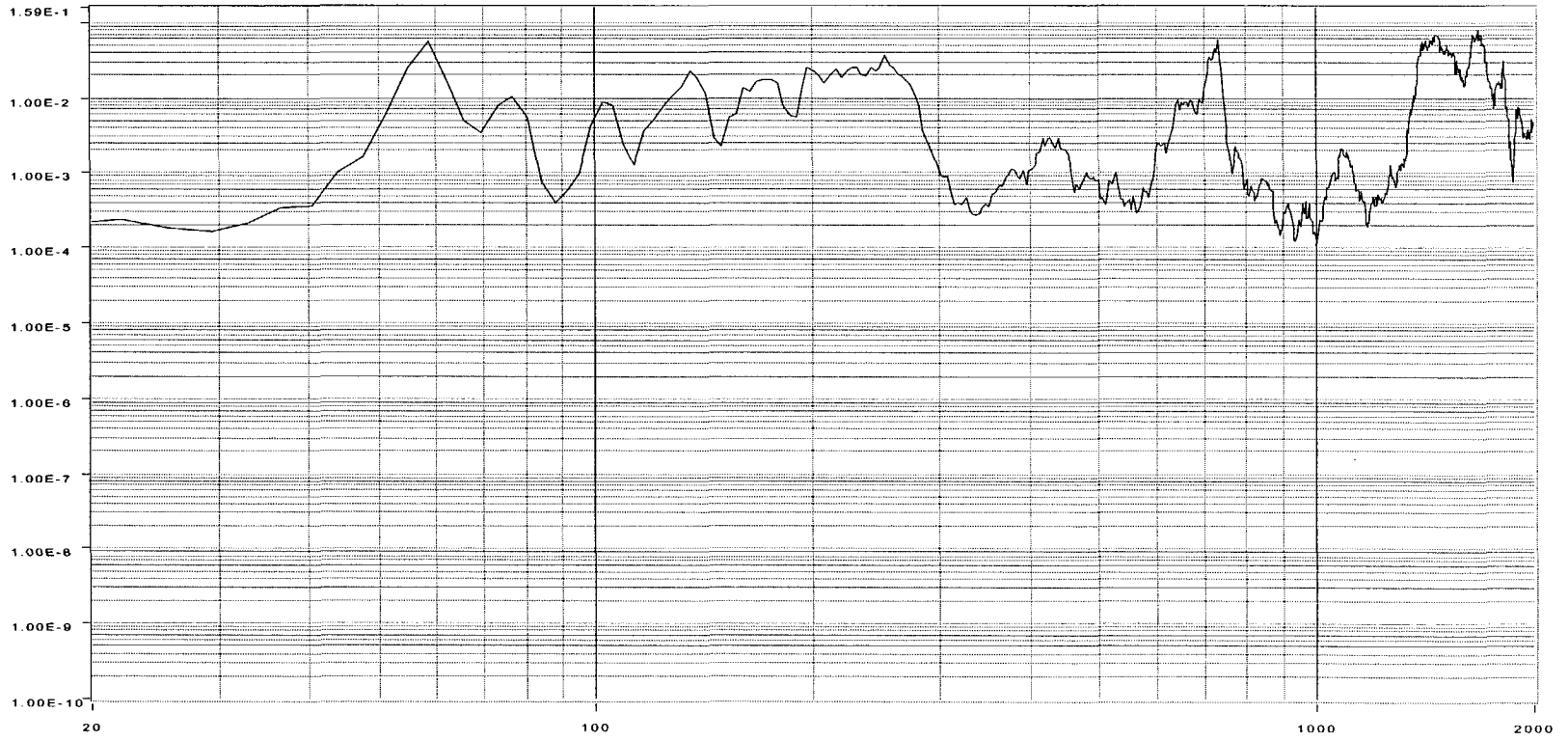
Channel #: 33 **Node Number:** 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 35.00

RMS= 4.856E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

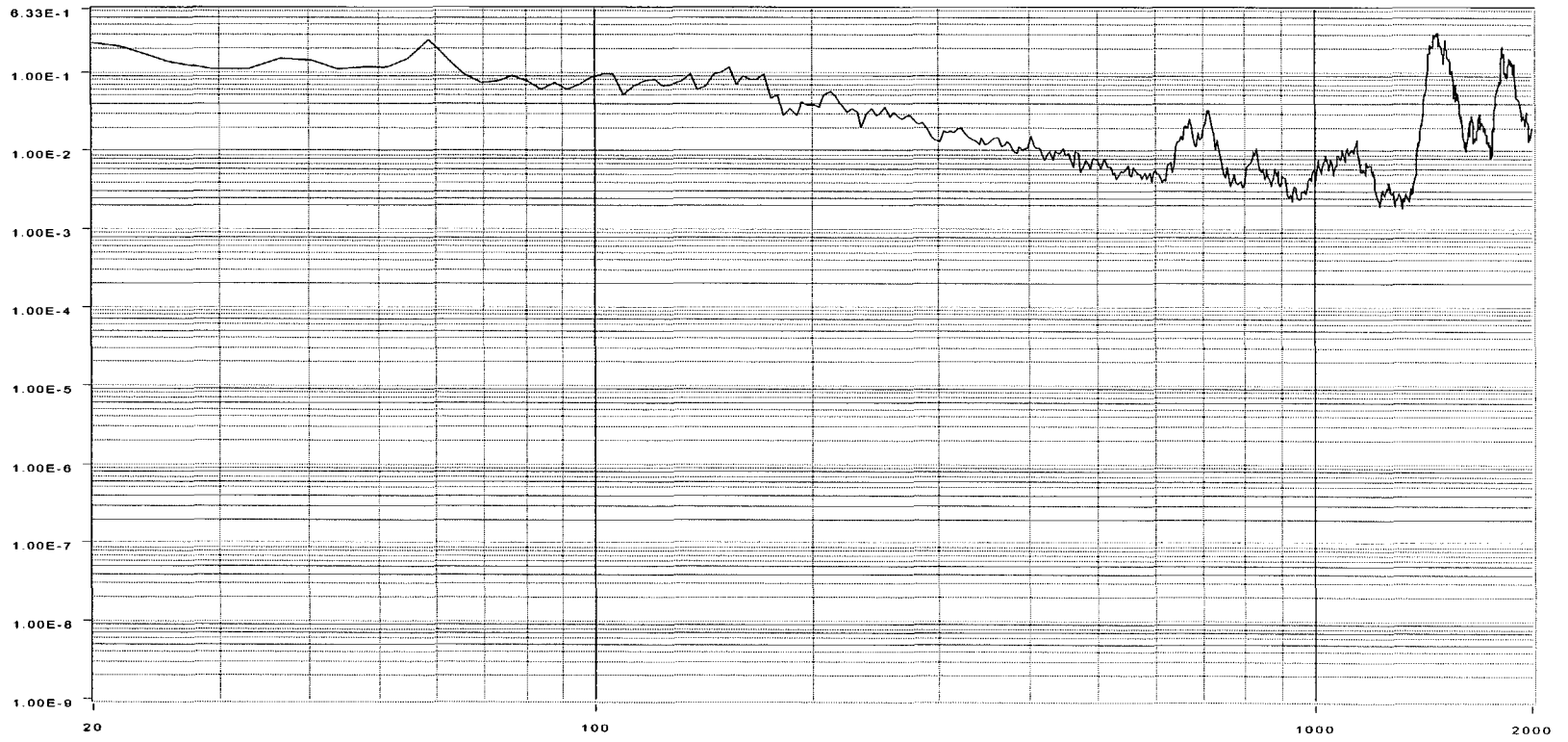
Channel #: 34 **Node Number:** 0034

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 35.00

RMS= 8.635E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

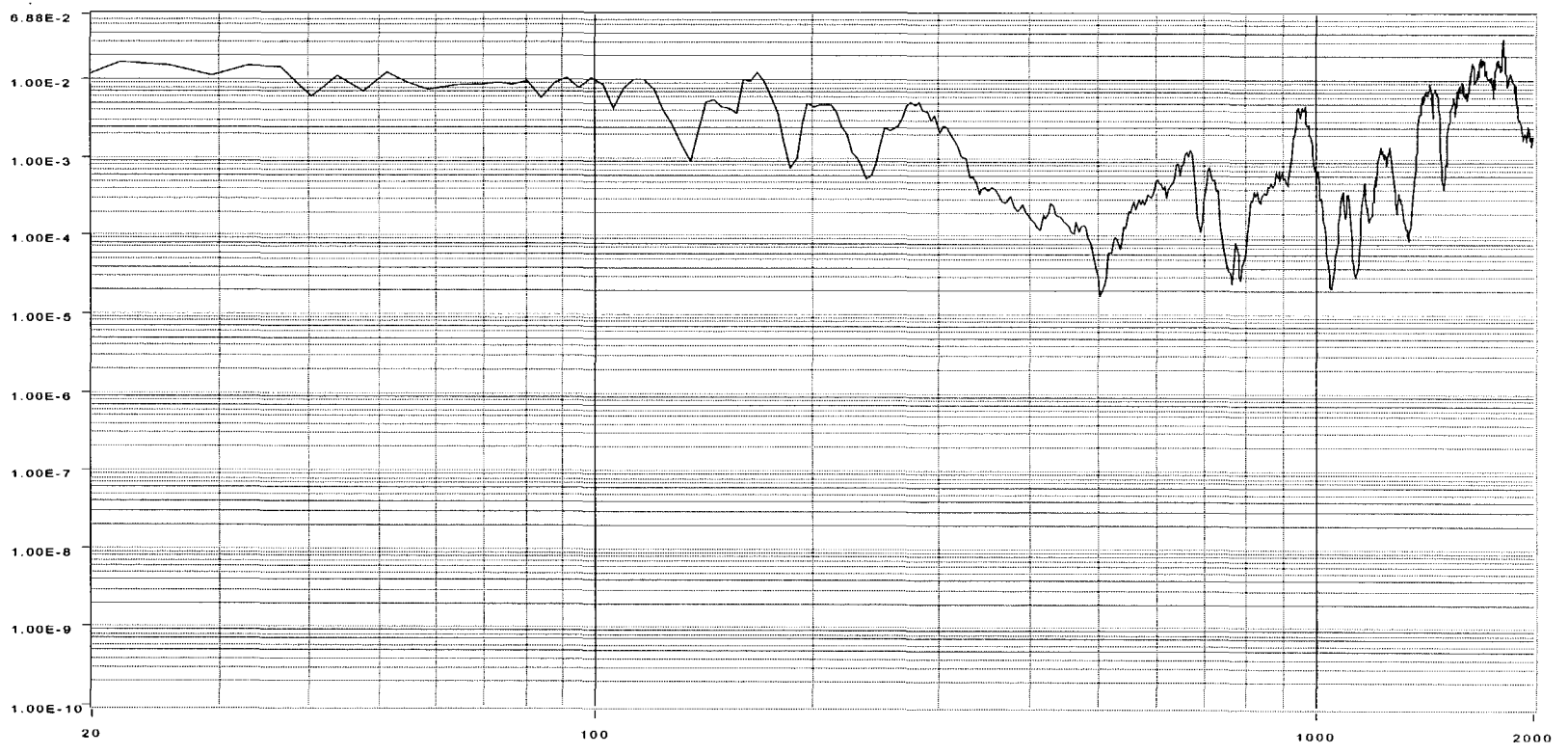
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 35.00

RMS= 2.682E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

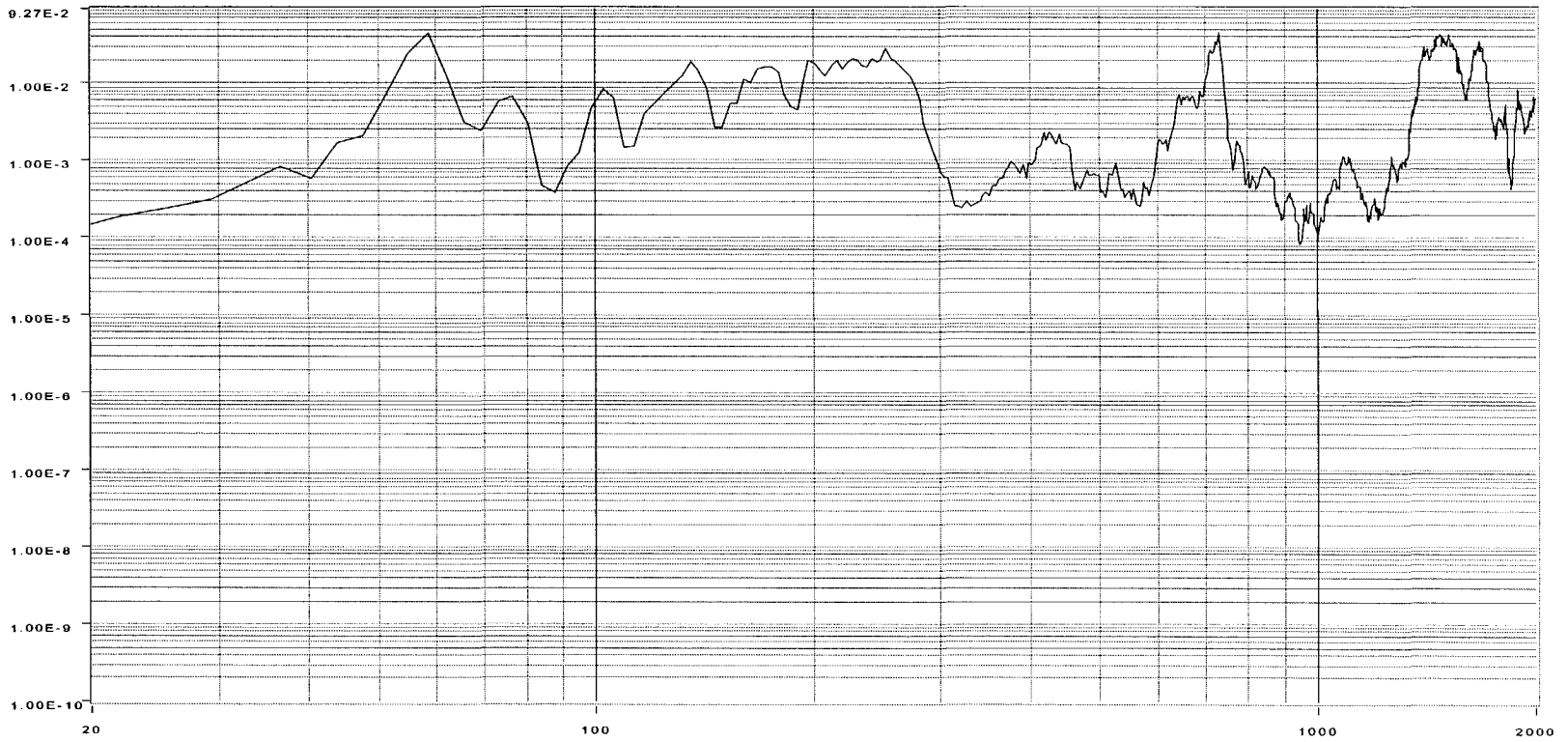
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 35.00

RMS= 3.786E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

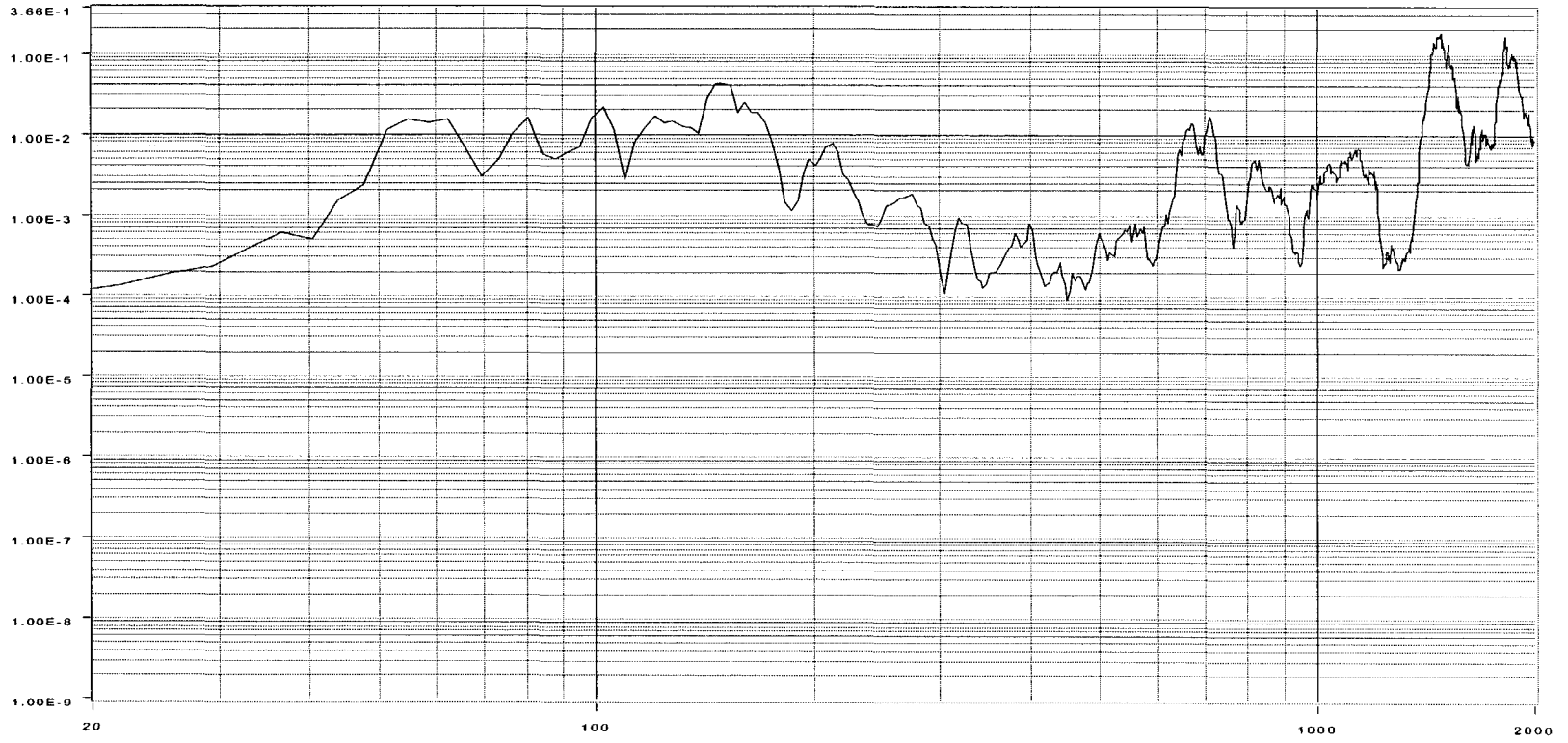
Channel #: 37 Node Number: 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 35.00

RMS= 5.774E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/23/02 4:09 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

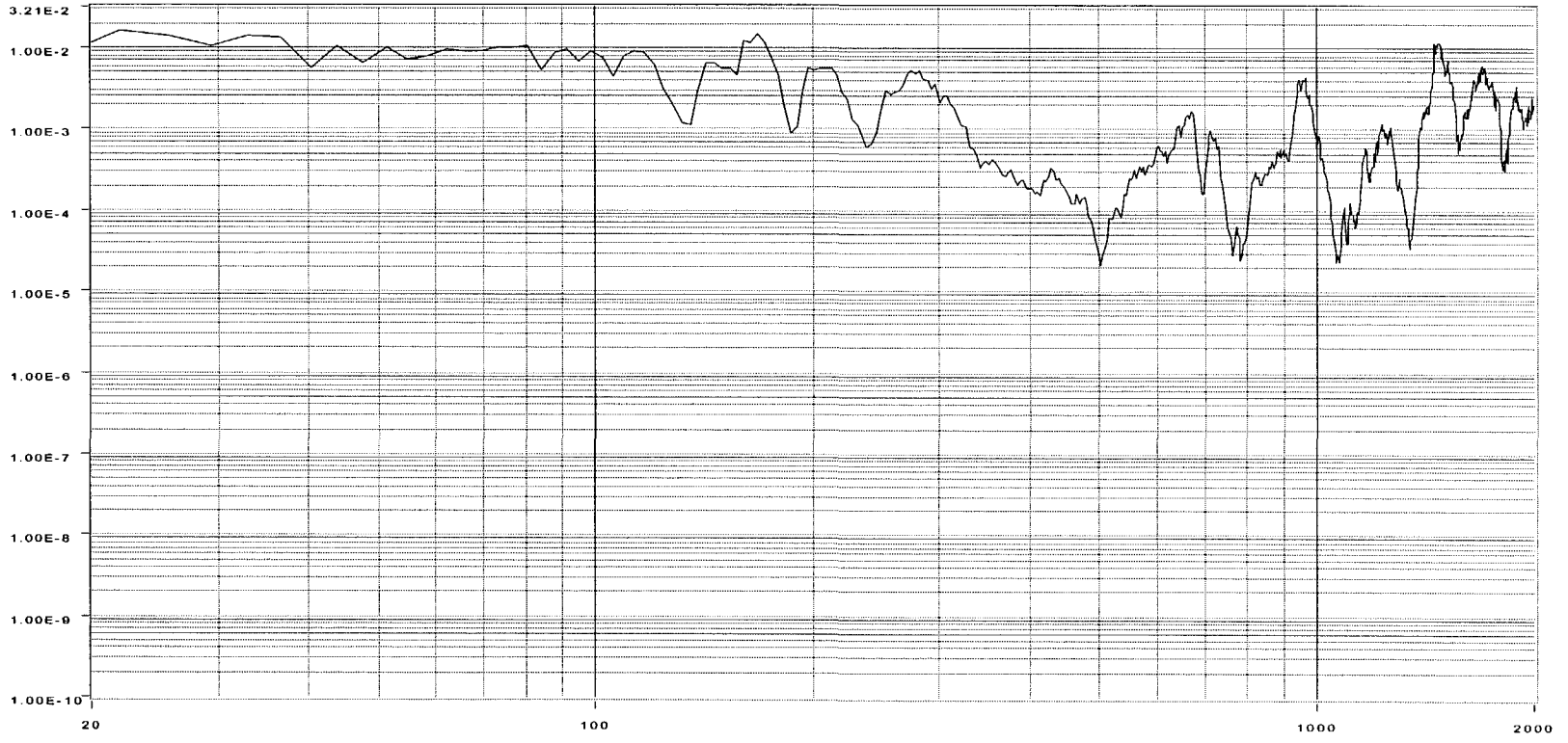
Channel #: 38 **Node Number:** 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 35.00

RMS= 2.021E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

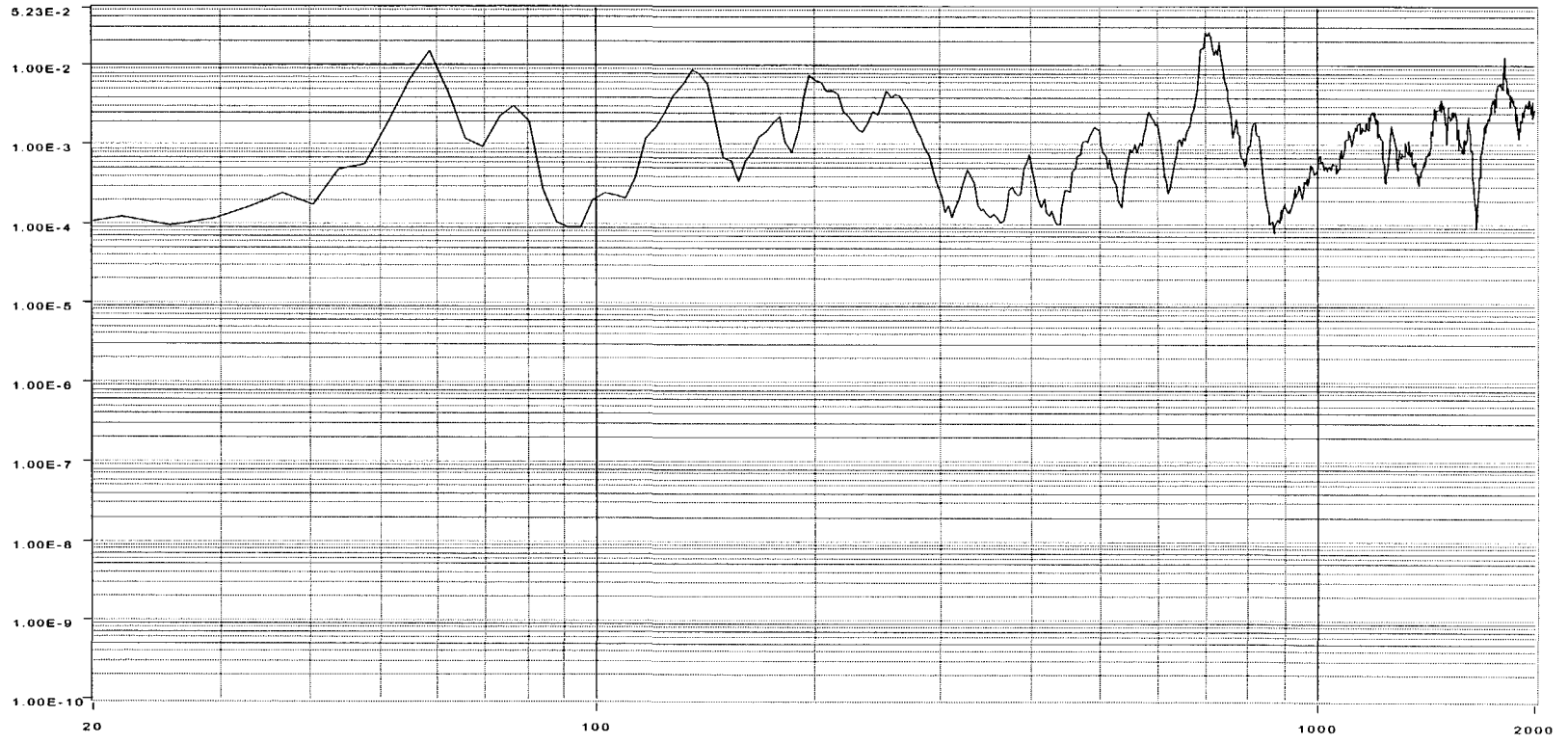
Channel #: 39 Node Number: 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 35.00

RMS= 2.034E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

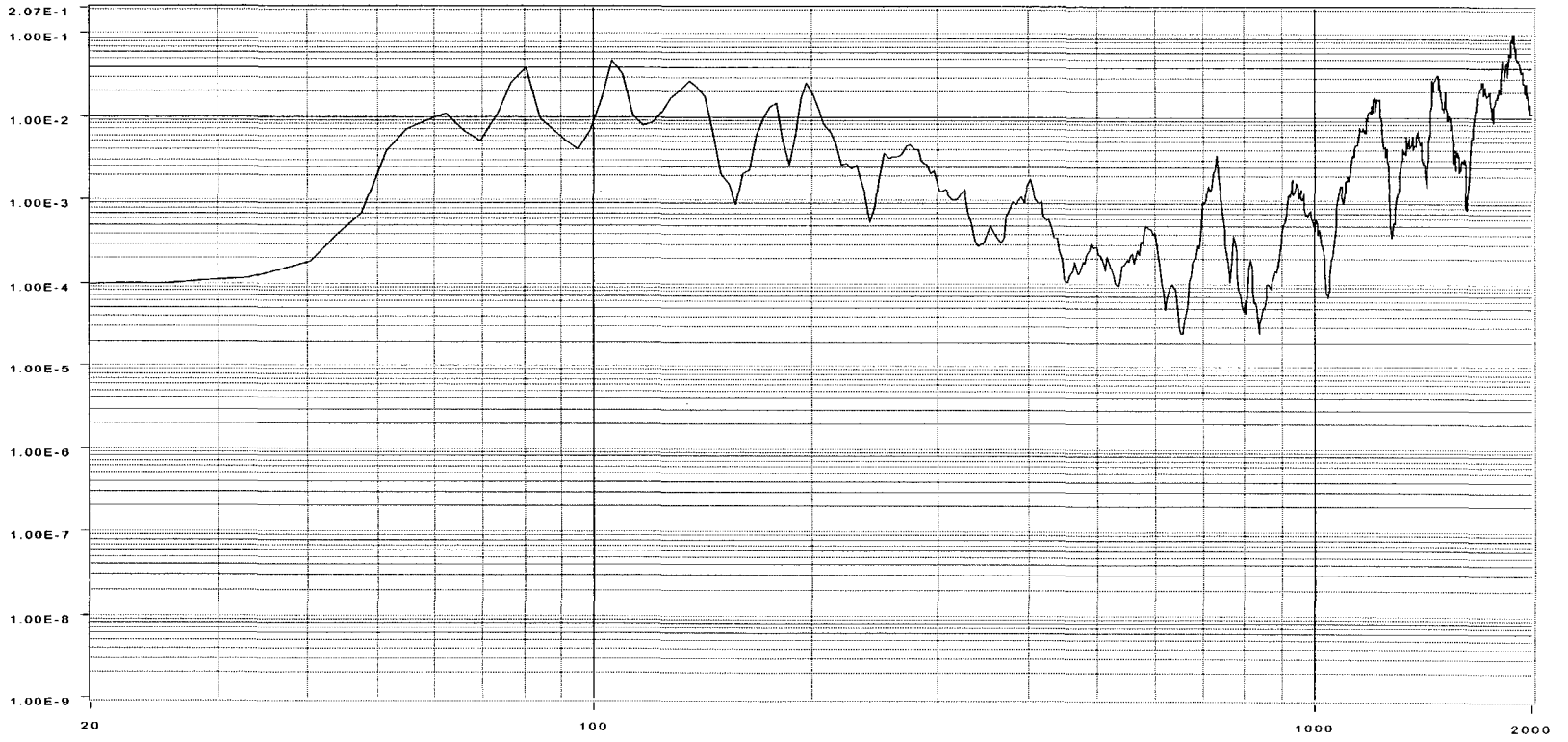
Channel #: 40 Node Number: 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 35.00

RMS= 4.165E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

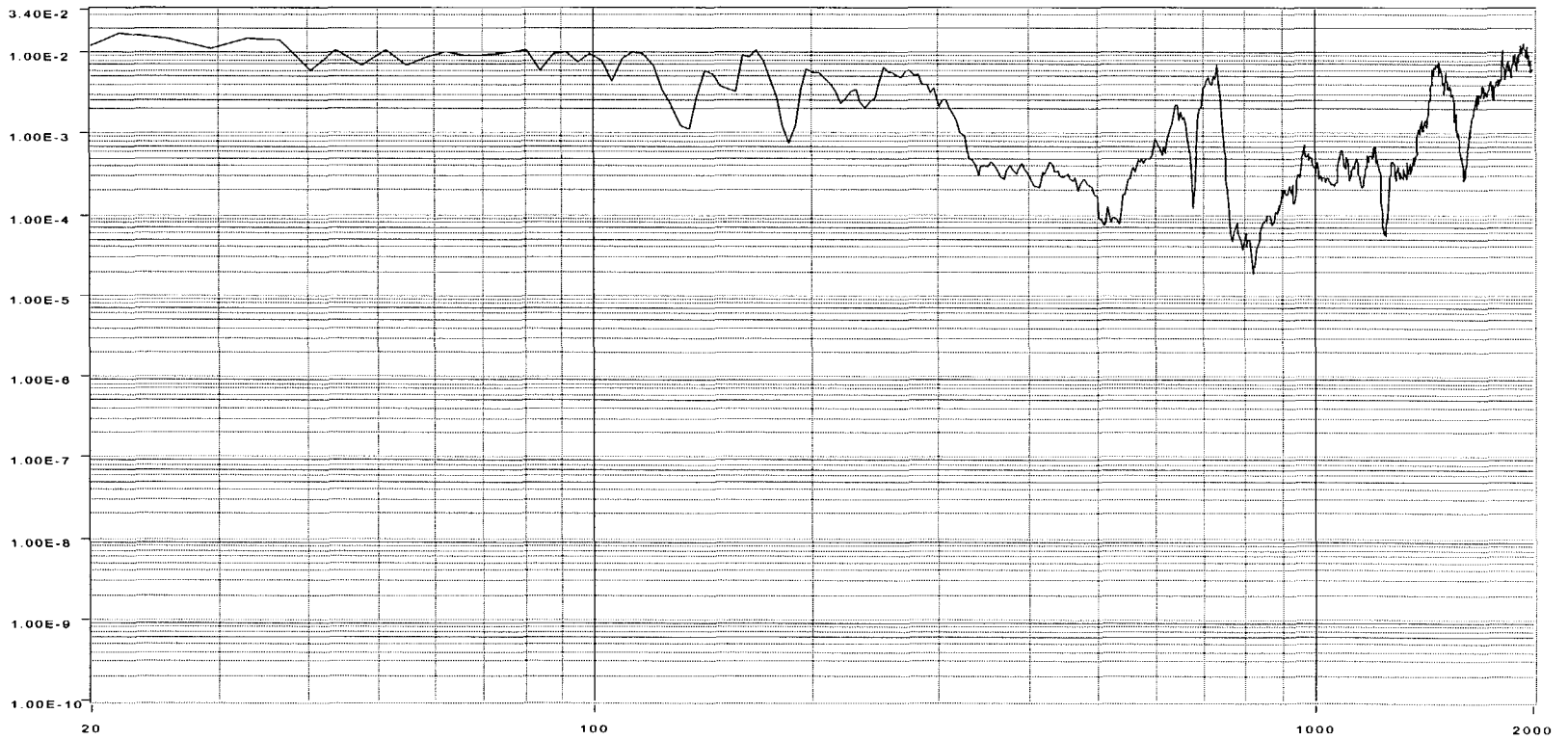
Channel #: 41 Node Number: 0041

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 35.00

RMS= 2.257E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

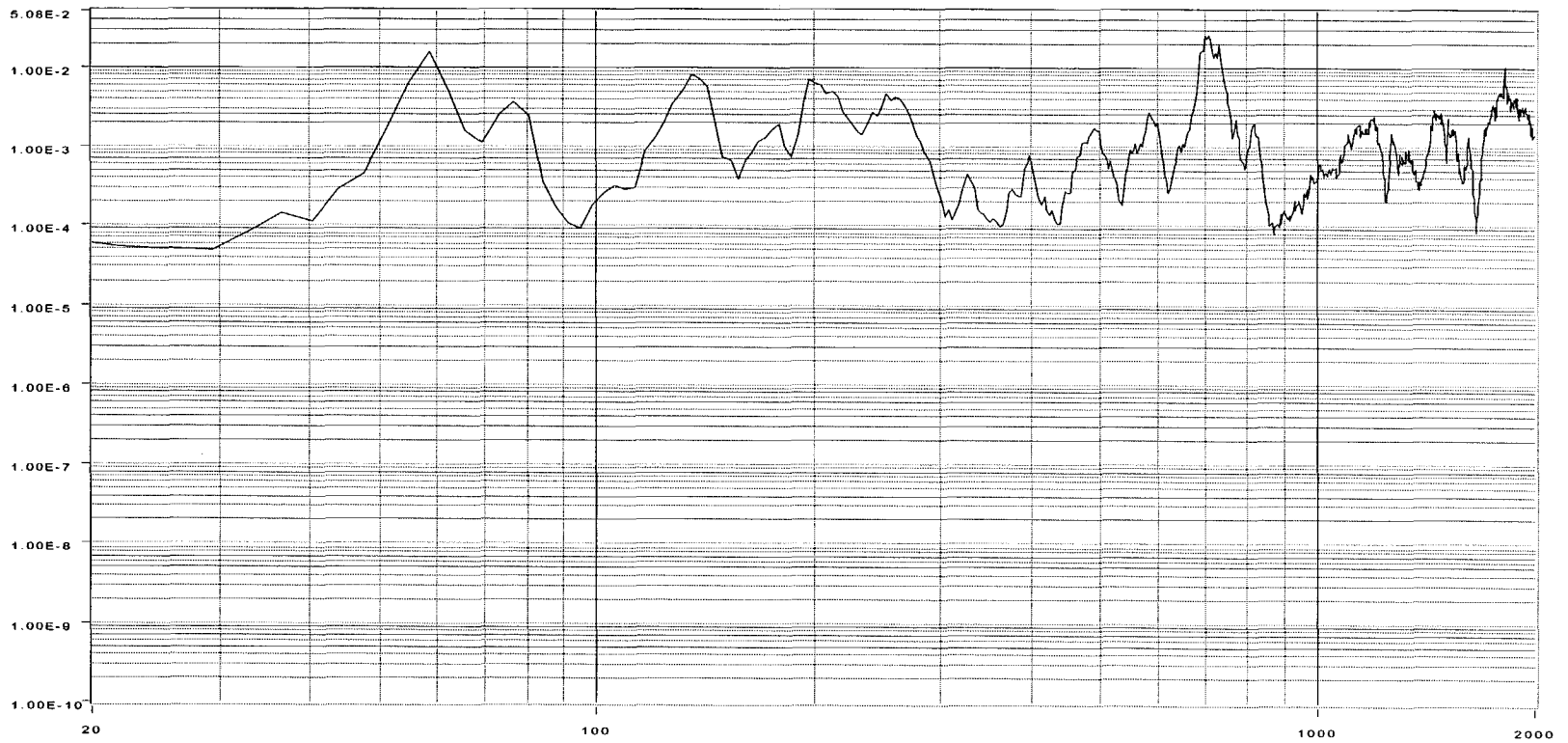
Channel #: 42 **Node Number:** 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 35.00

RMS= 1.960E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

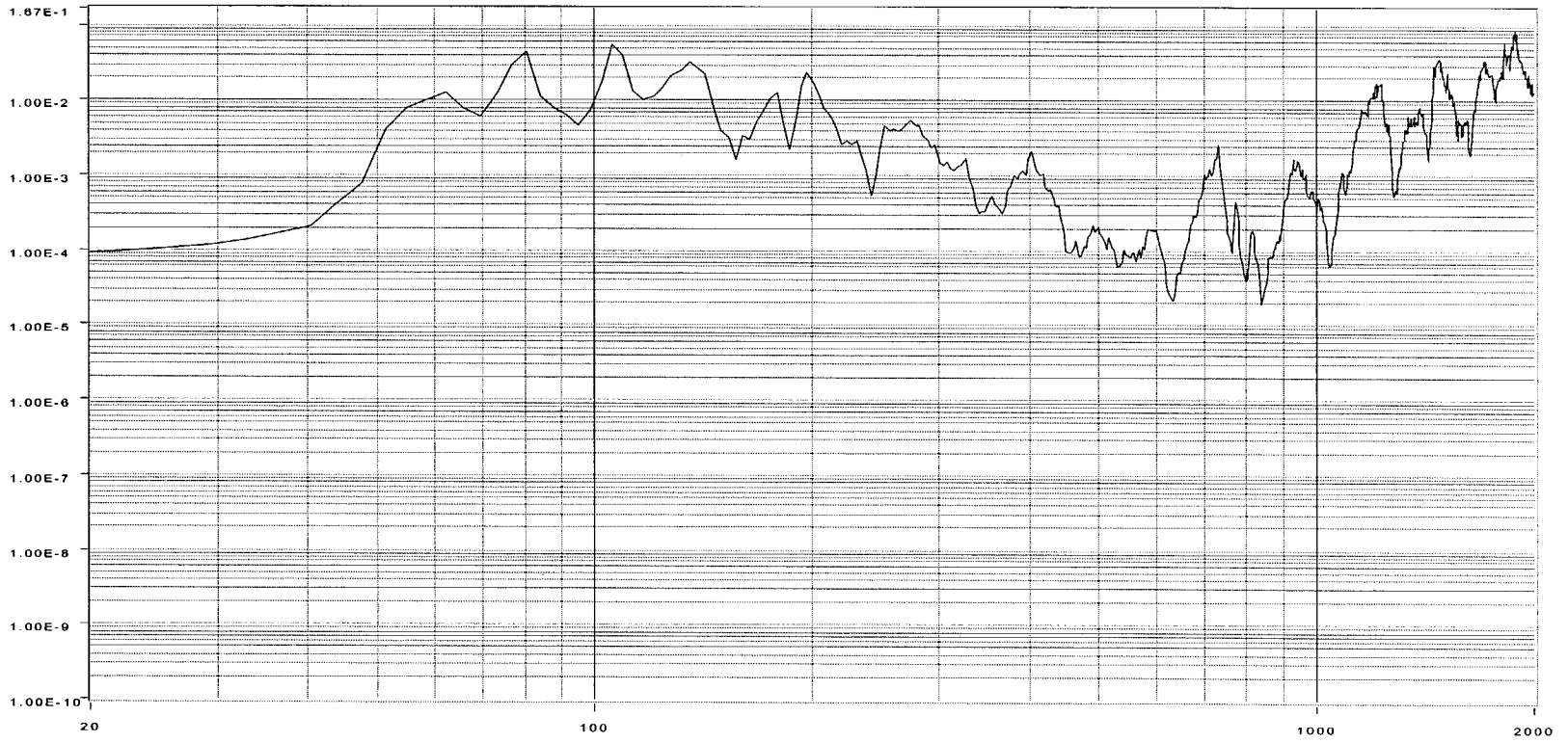
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 35.00

RMS= 4.190E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

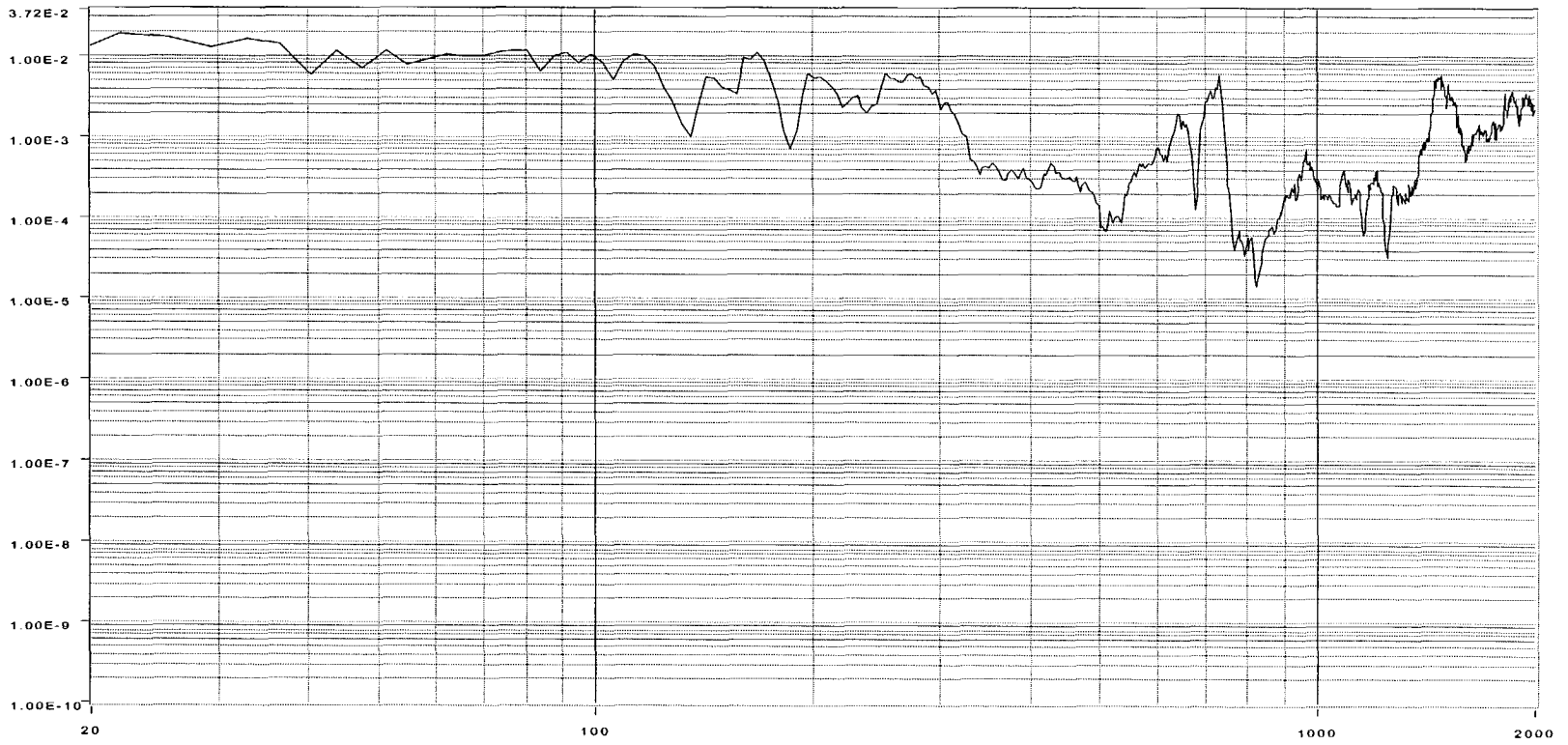
Channel #: 44 **Node Number:** 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 35.00

RMS= 1.900E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

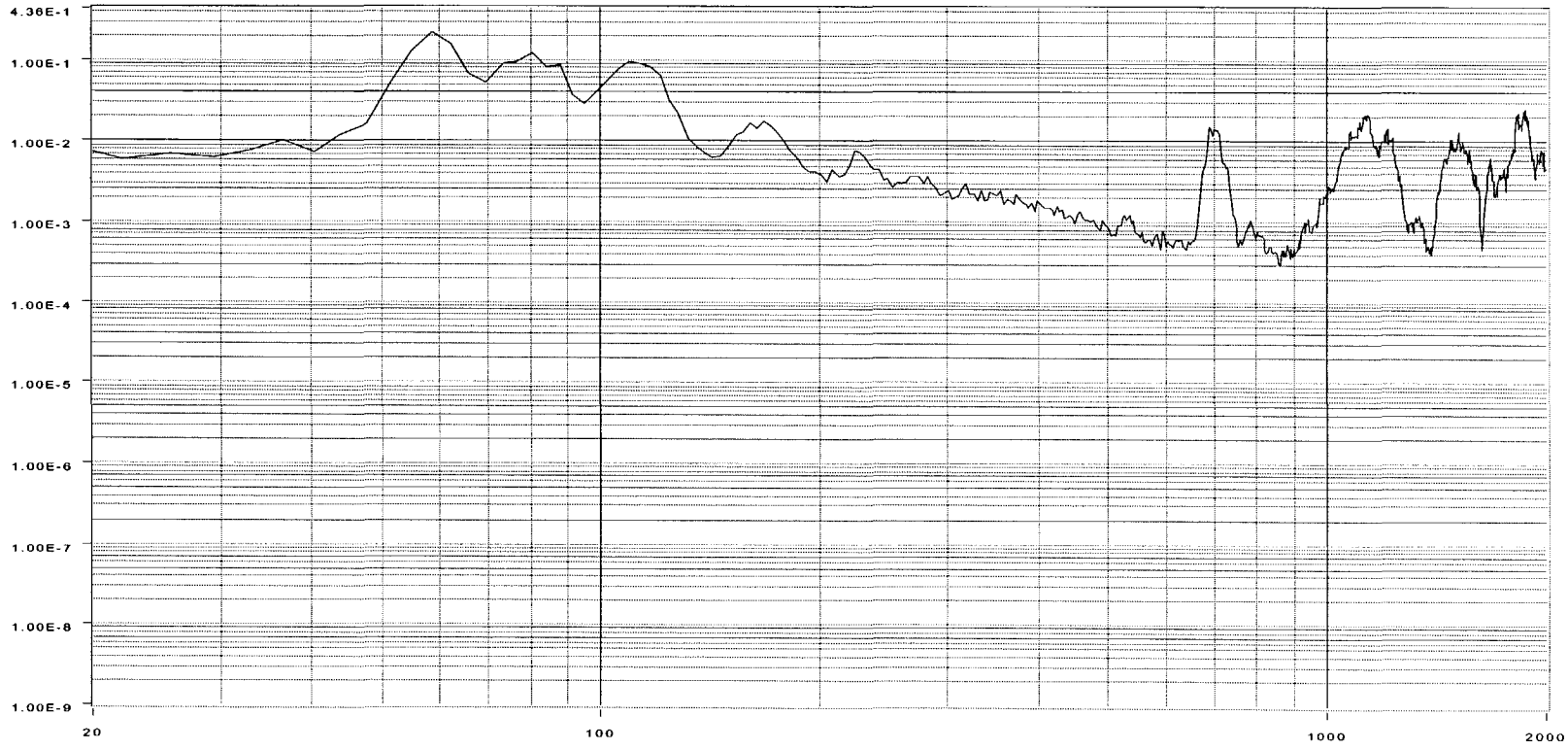
Channel #: 45 **Node Number:** 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 35.00

RMS= 4.001E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

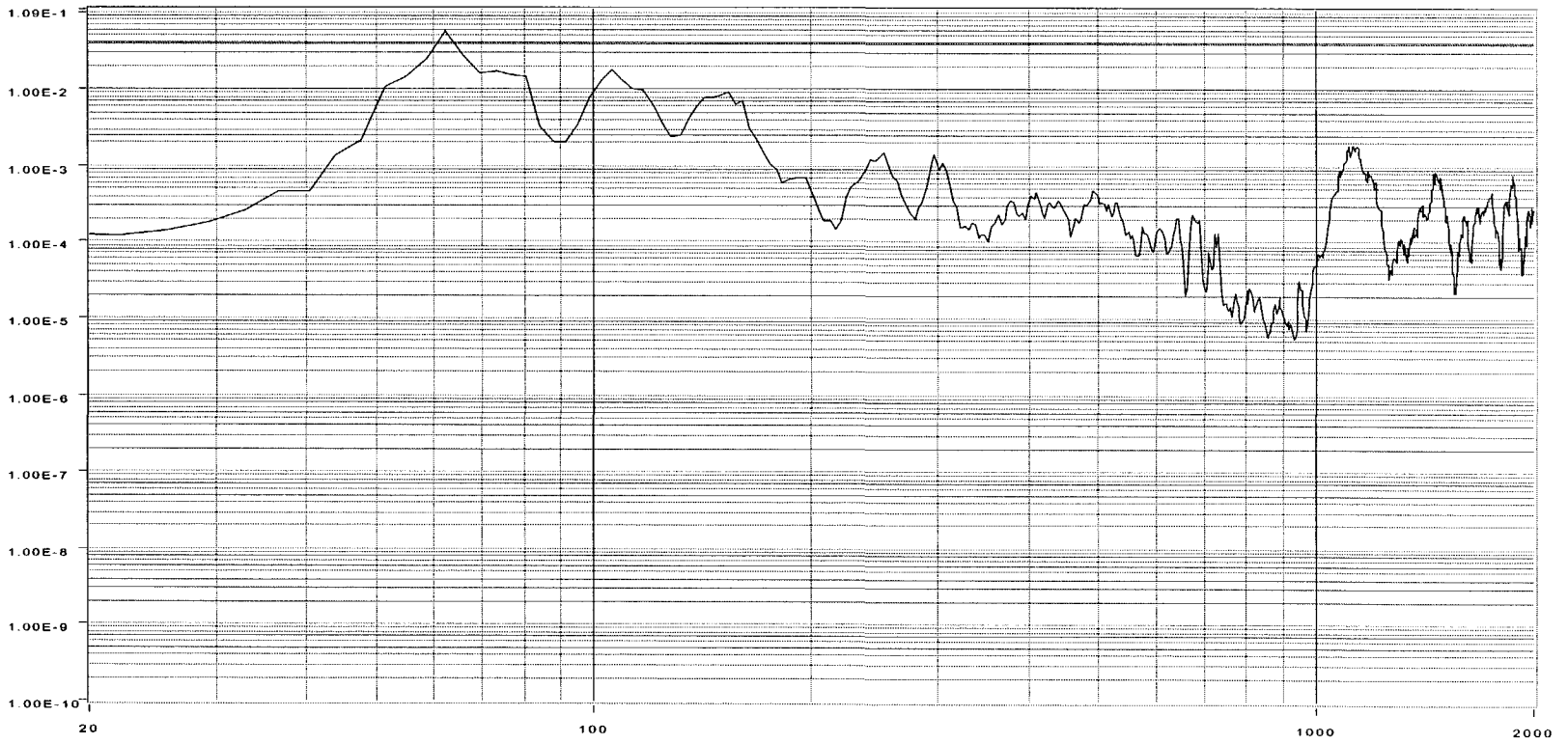
Channel #: 46 **Node Number:** 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 35.00

RMS= 1.361E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

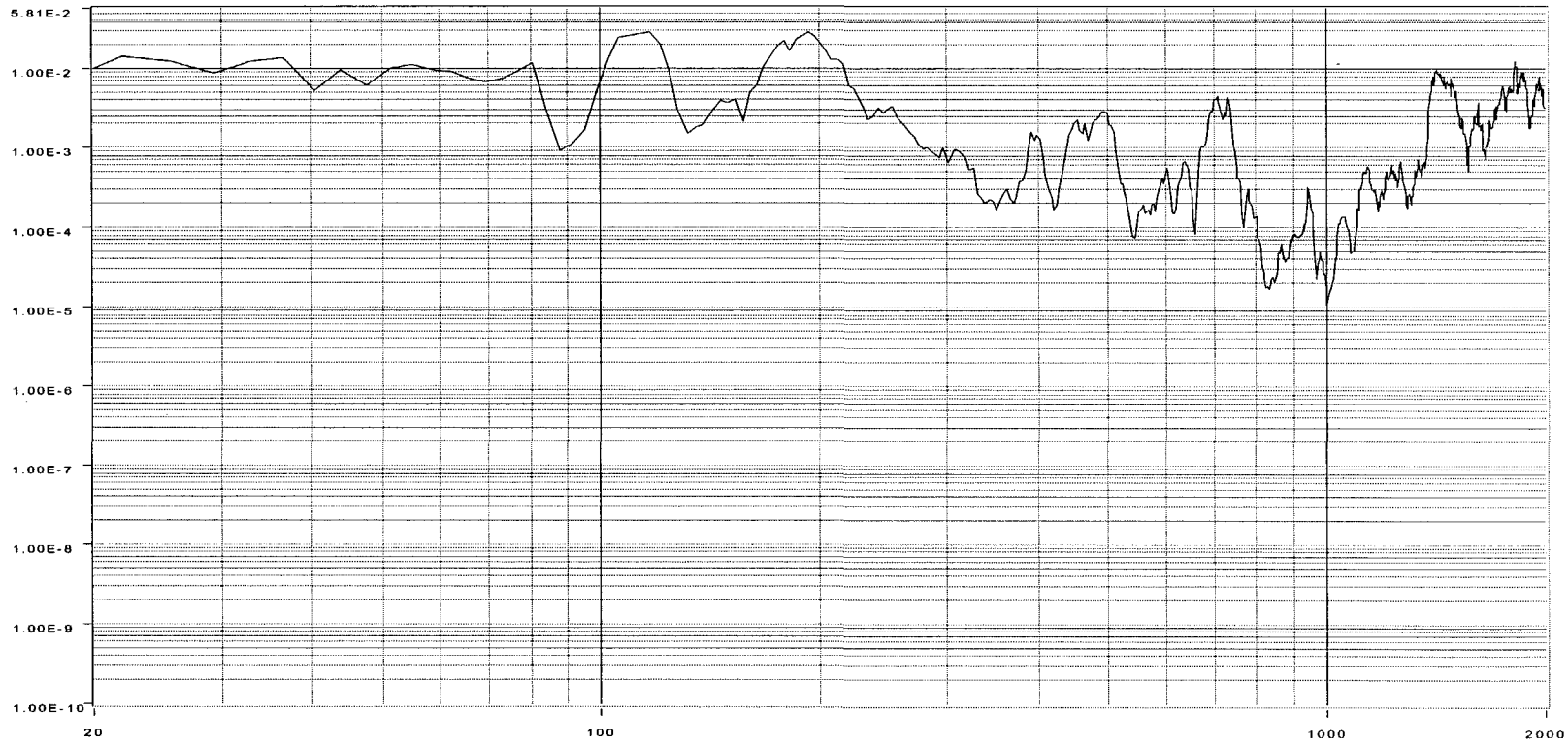
Channel #: 47 Node Number: 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 35.00

RMS= 2.408E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

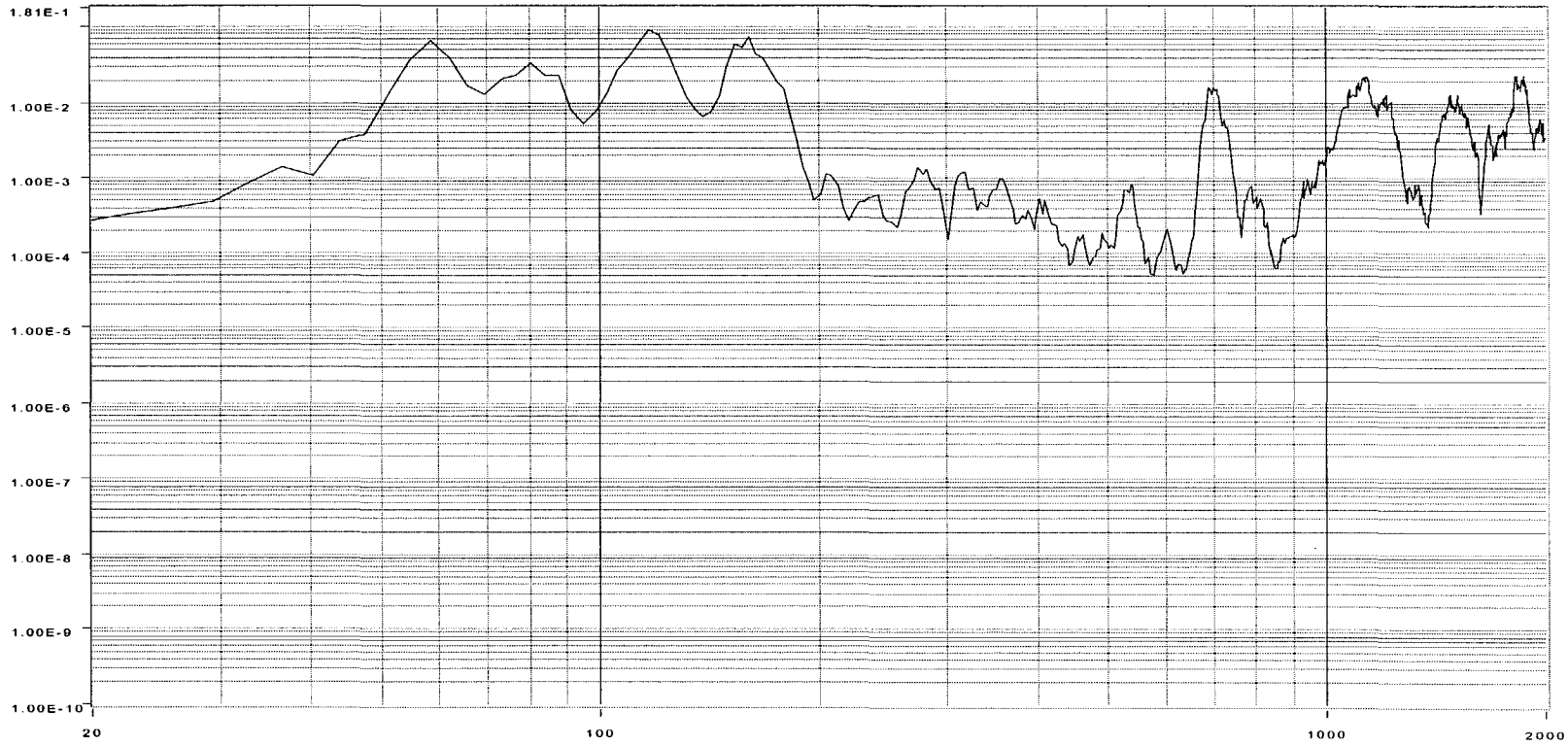
Channel #: 48 **Node Number:** 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 35.00

RMS= 3.425E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 4:10 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

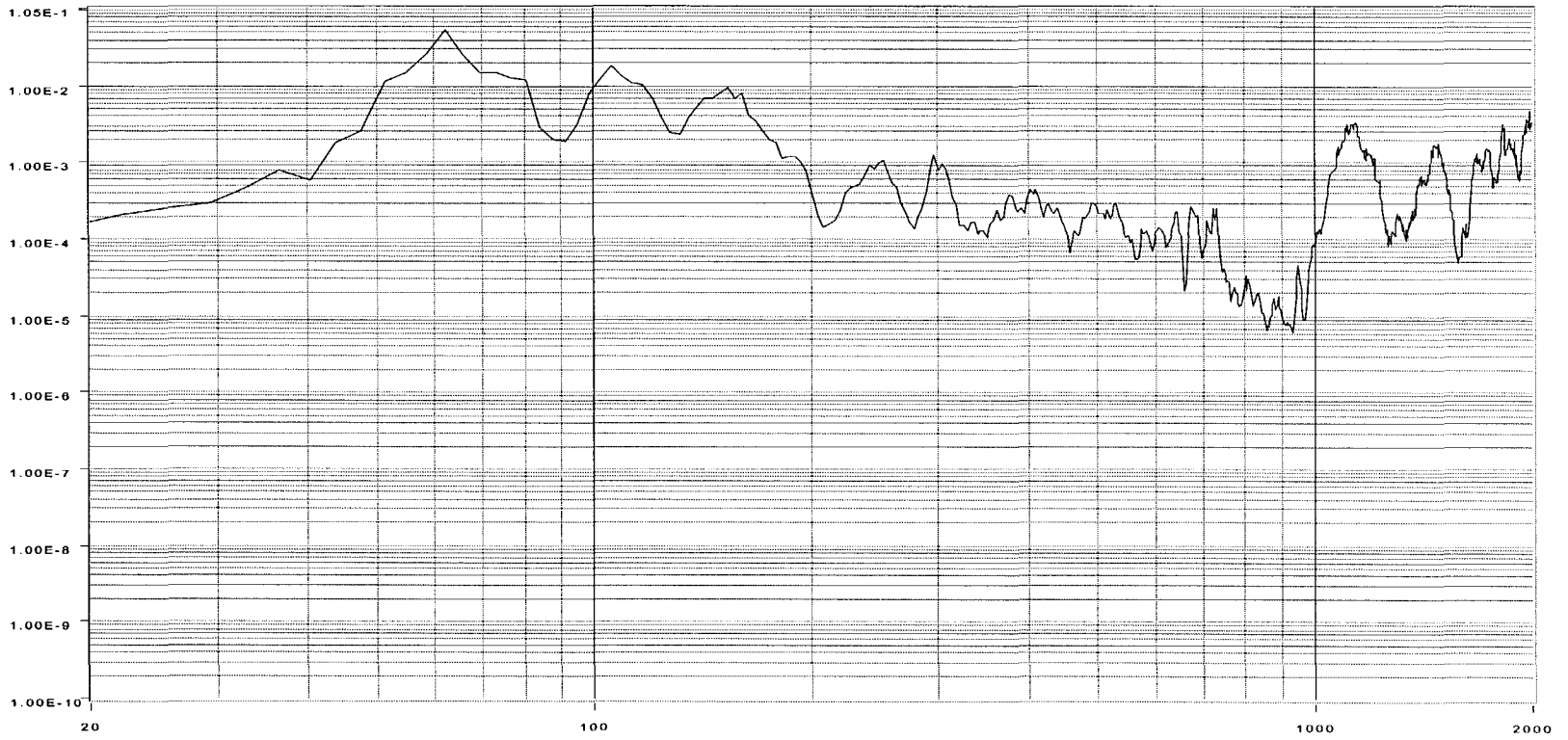
Channel #: 49 Node Number: 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 35.00

RMS= 1.576E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

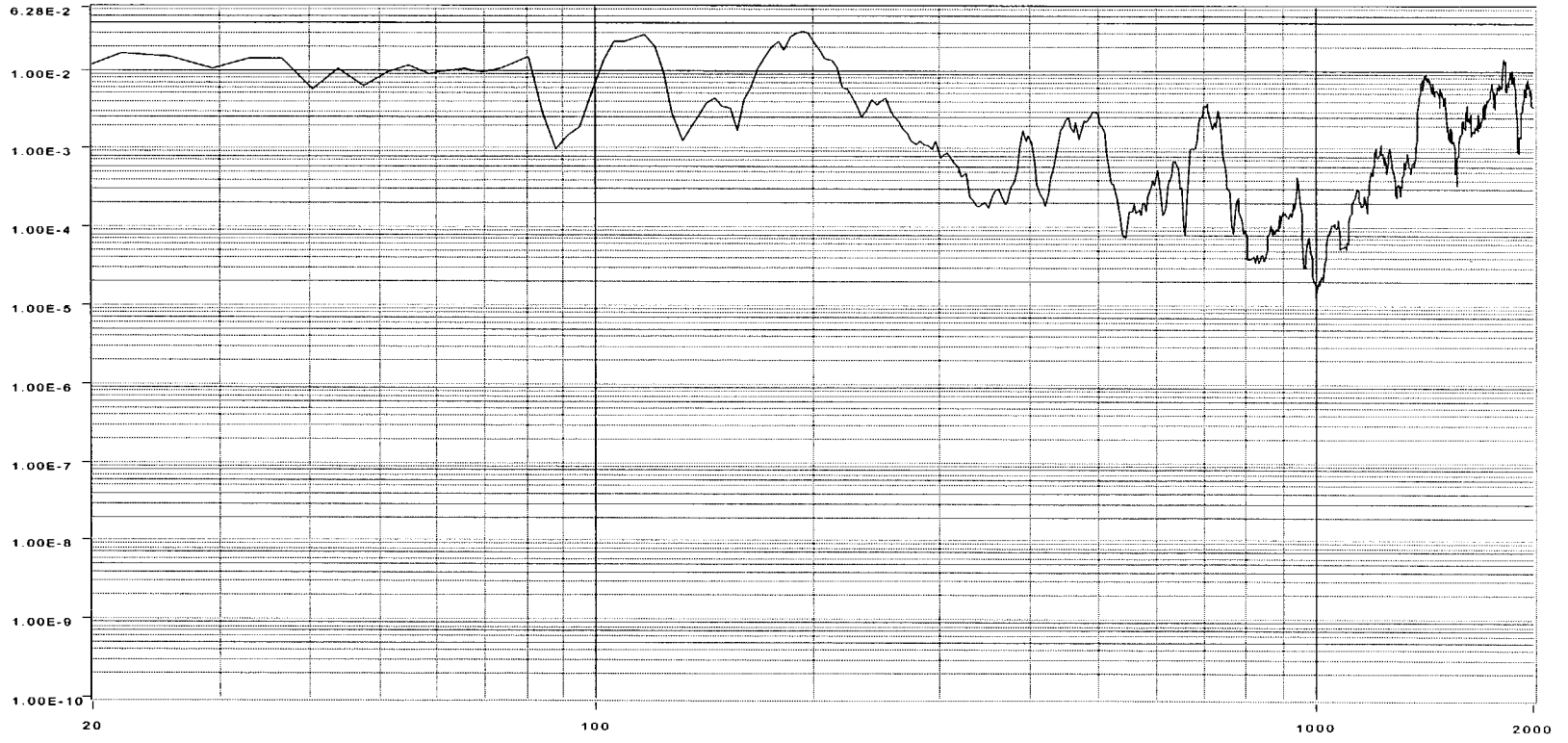
Channel #: 50 Node Number: 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 35.00

RMS= 2.439E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

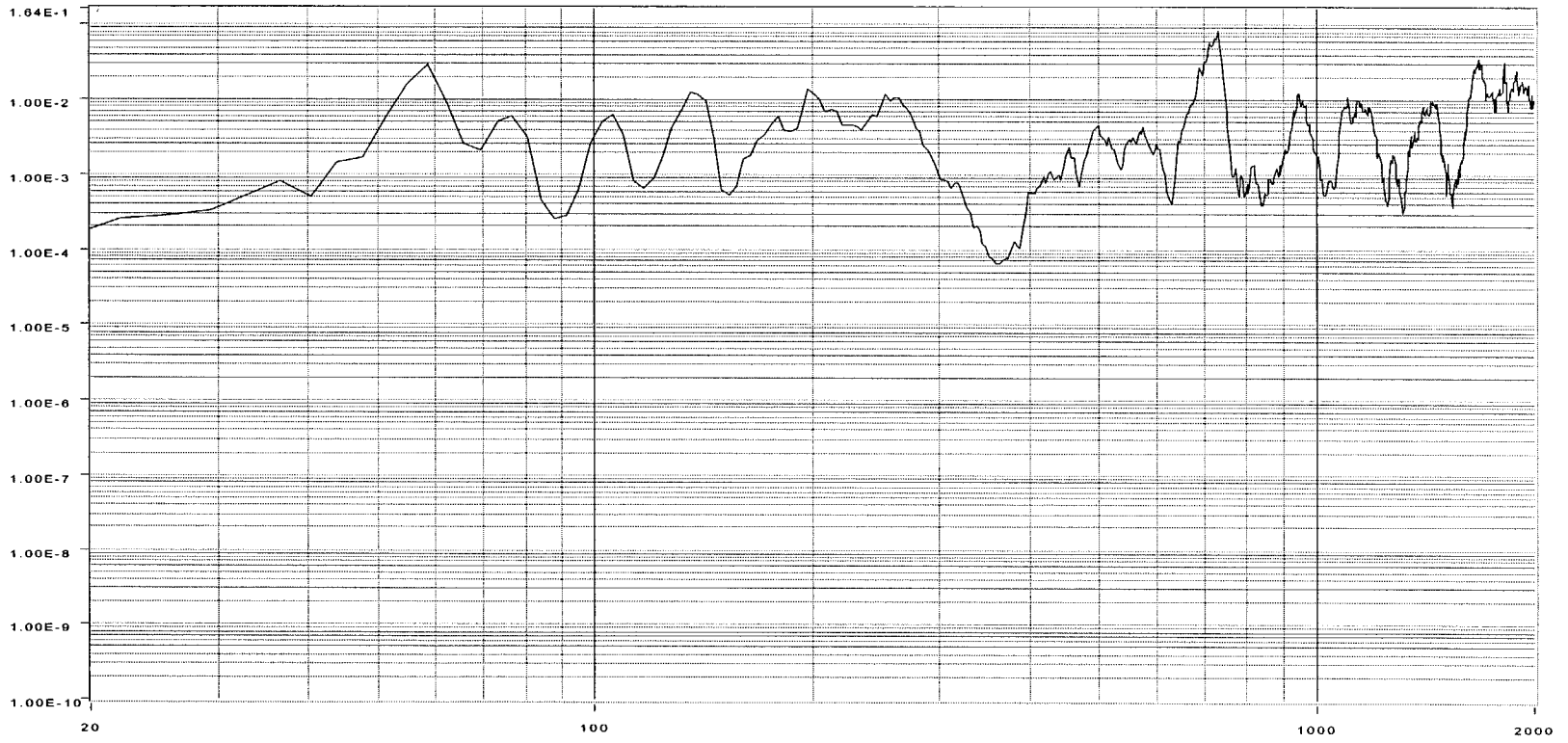
Channel #: 51 **Node Number:** 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 35.00

RMS= 3.680E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

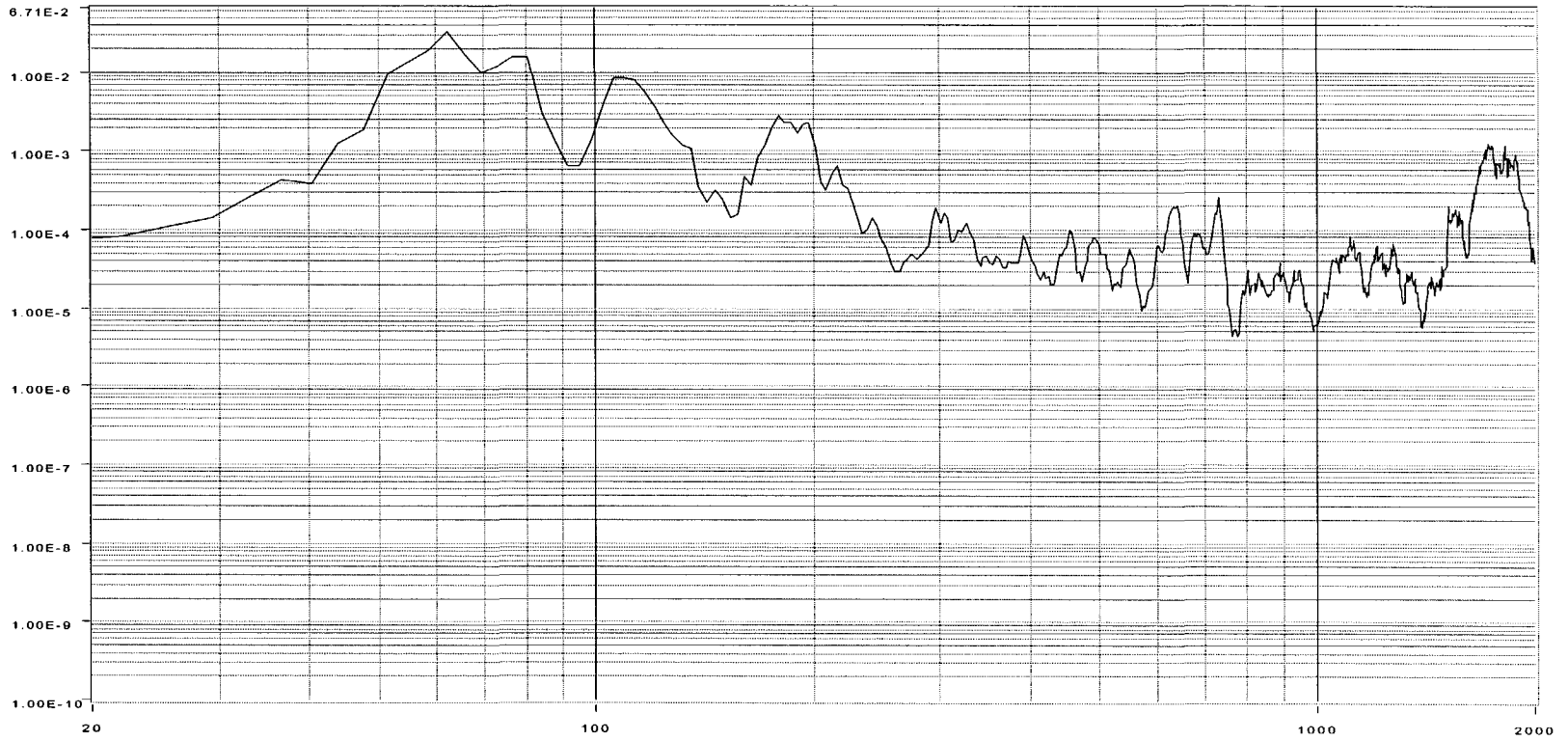
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 35.00

RMS= 1.048E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

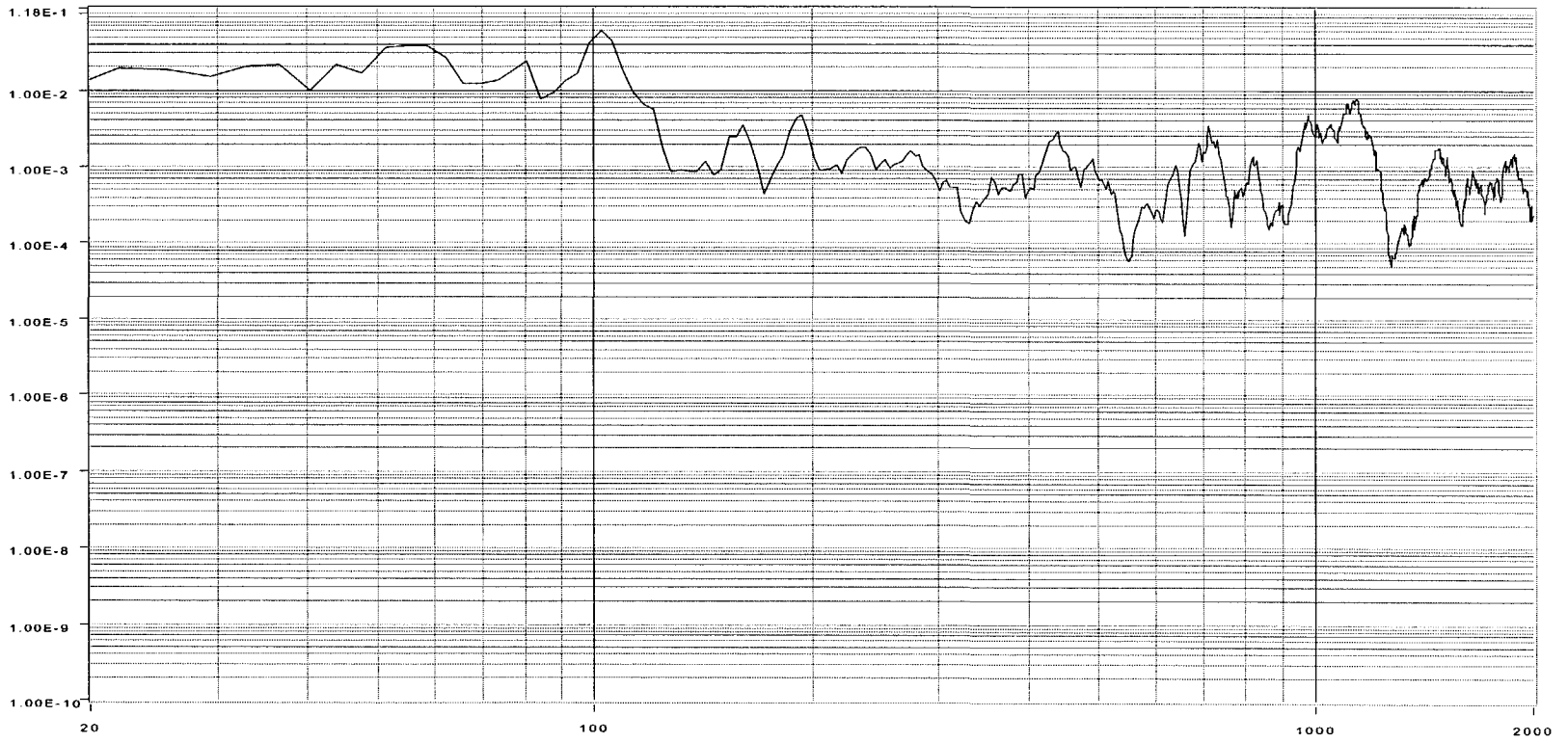
Channel #: 53 Node Number: 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 35.00

RMS= 2.095E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

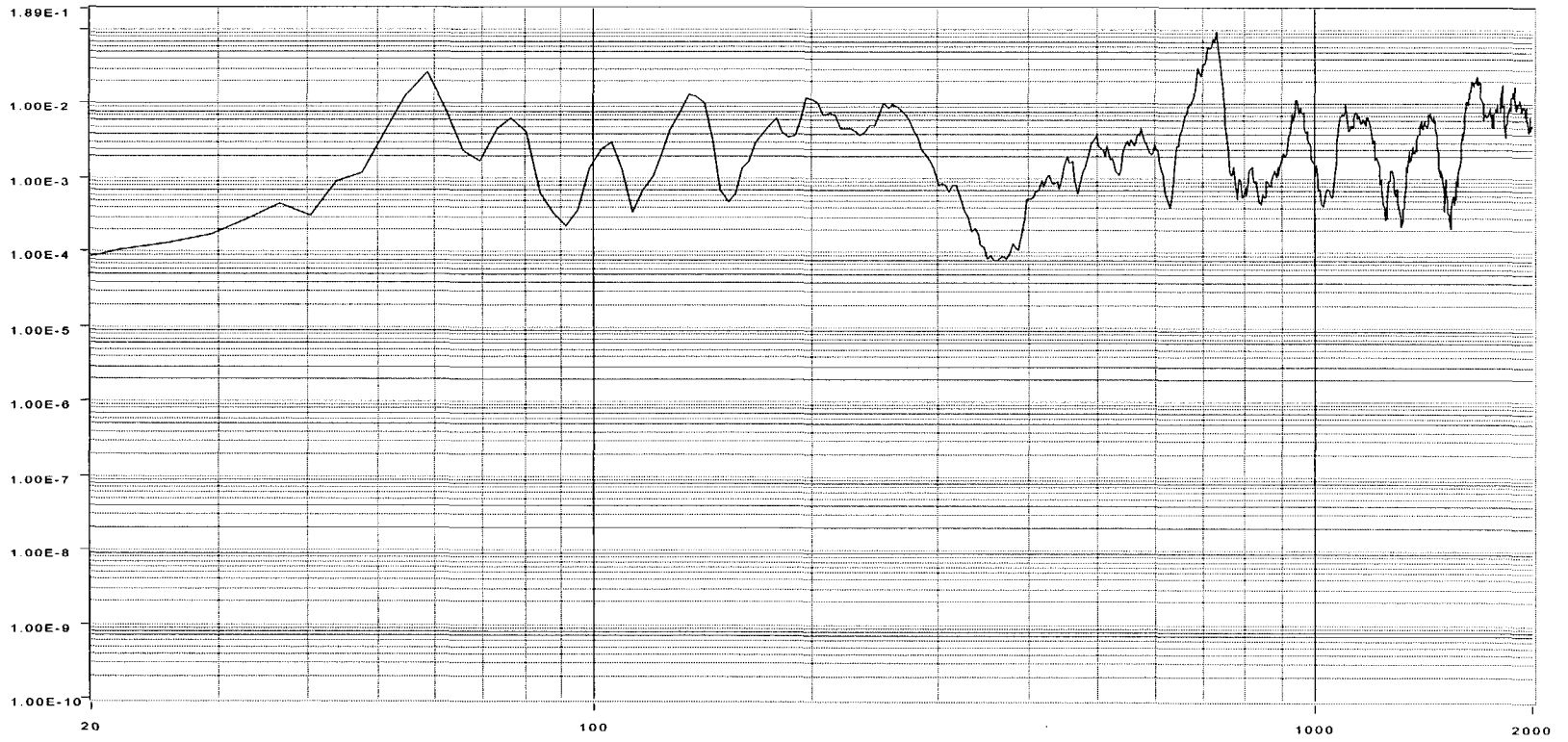
Channel #: 54 Node Number: 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 35.00

RMS= 3.366E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

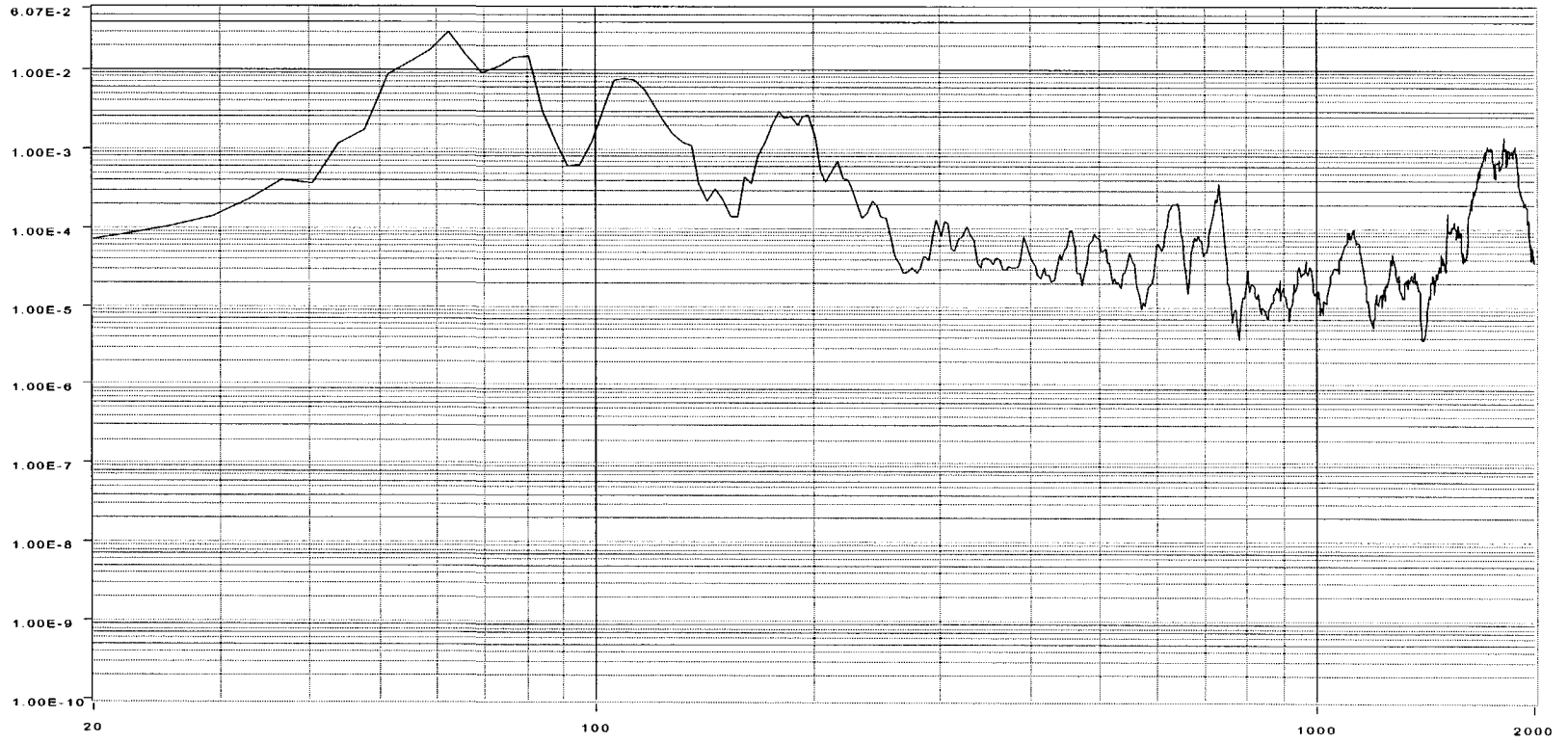
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 35.00

RMS= 1.021E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

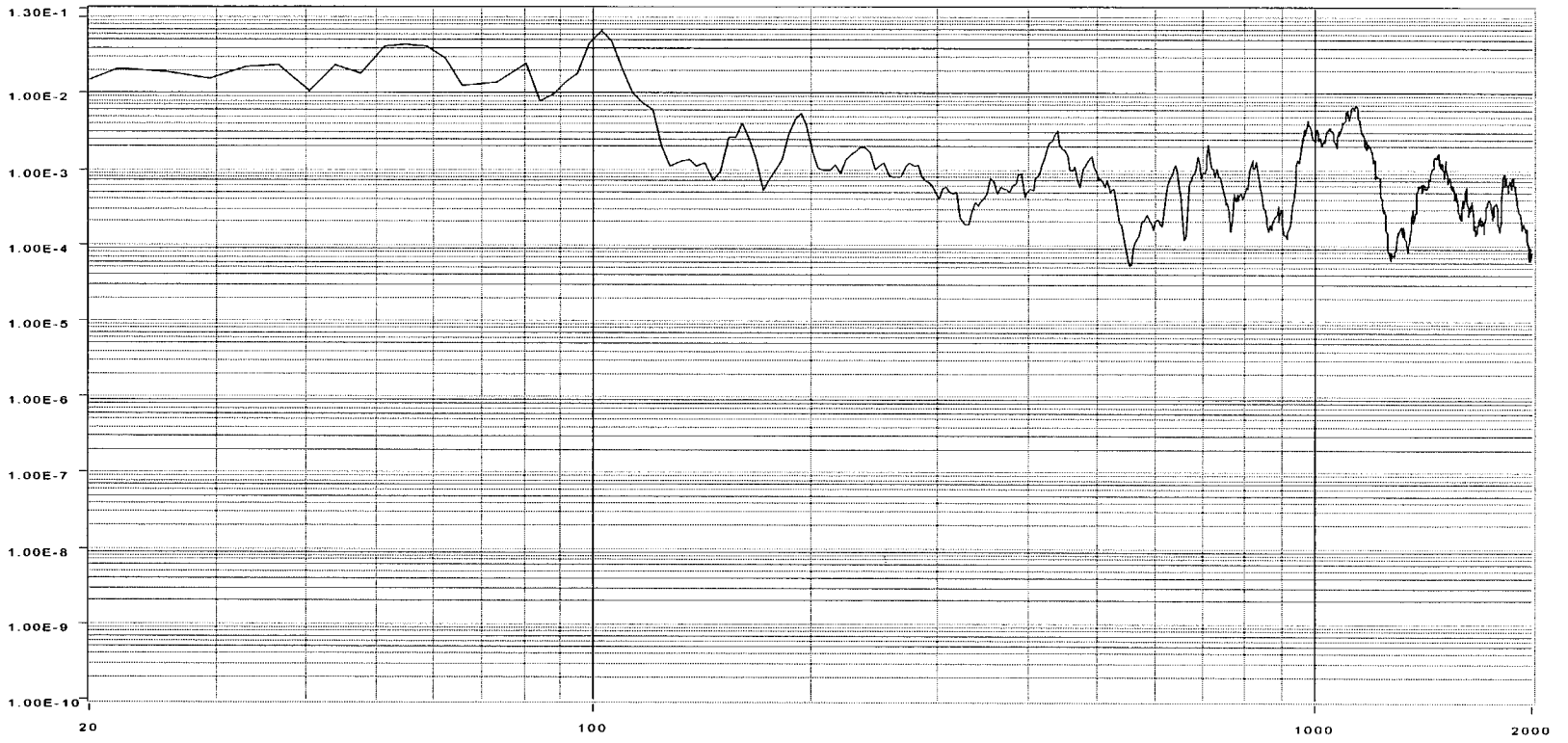
Channel #: 56 Node Number: 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 35.00

RMS= 2.072E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 11:12:27

Test title: HIRDLS VIBRATION TEST: Z-AXIS 0db

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062308

Test description: HIRDLS VIBRATION TEST: Z-AXIS 0db

Part number/id: Y4011

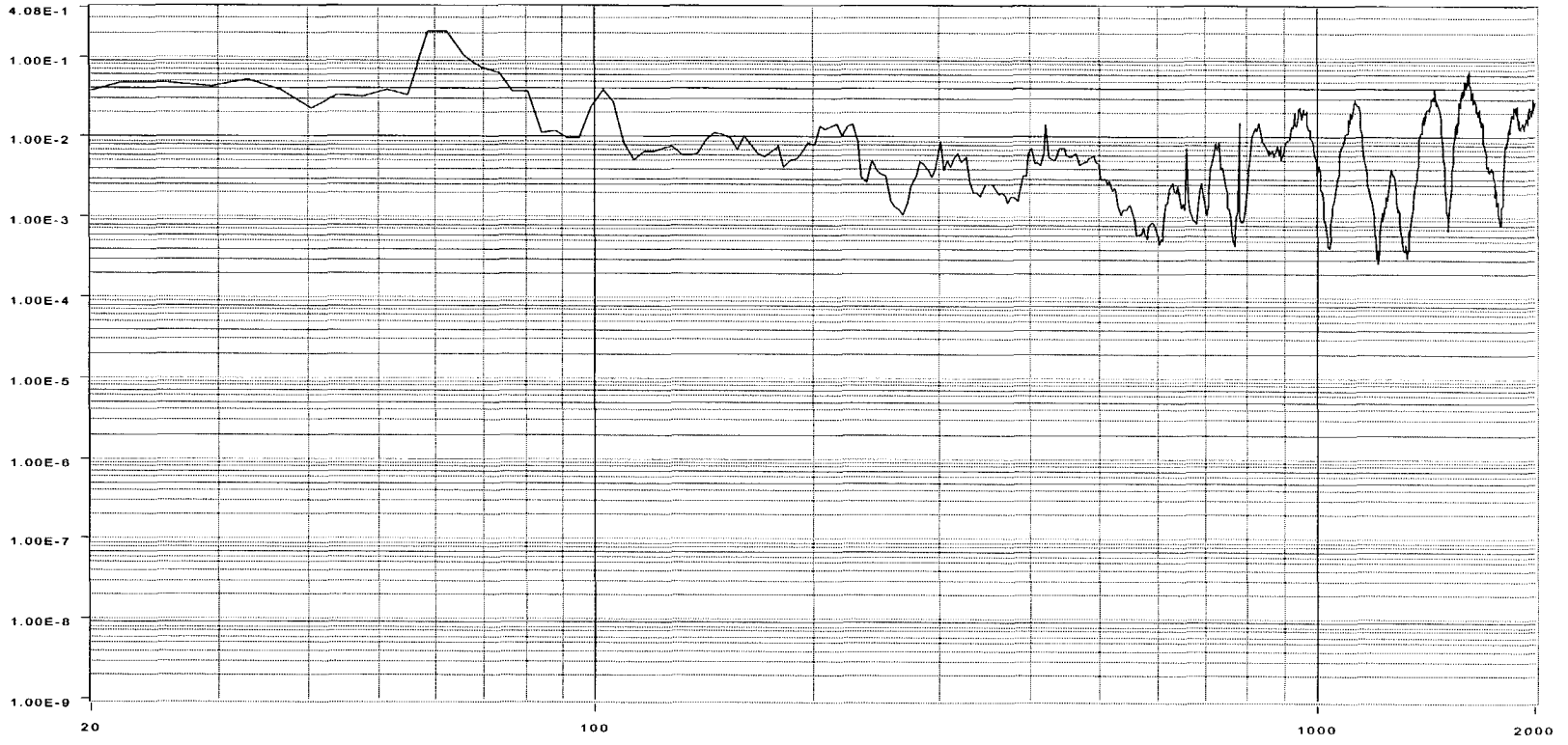
Channel #: 57 Node Number: 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 35.00

RMS= 4.641E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

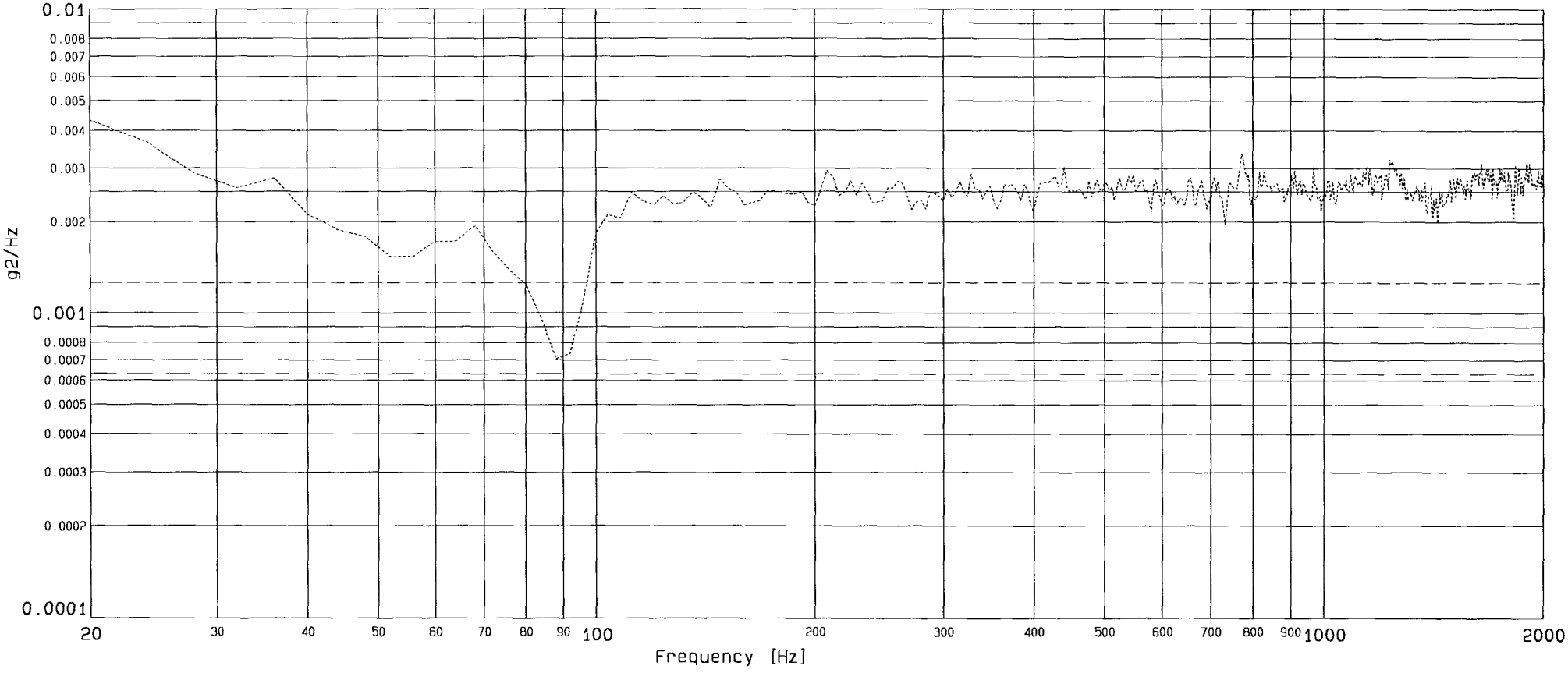
Analysis Date & time: 6/23/02 4:11 PM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date :	23-06-02
Test	: Z_HIRDLS	Time :	09:33:20
Run	: 15 062305	Mode :	Random Vibration Control

Test level	: -6.00 dB	Number of lines in alarm	: 0		
Elapsed time	: 00:00:30.2	Number of lines in abort	: 0		
Degrees of freedom	: 280	Reference level RMS	: 2.23	g	
Control strategy	: Average	Control level RMS	: 2.26	g	
Frequency resolution	: 4 Hz	Nbr of control channels	: 2		

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

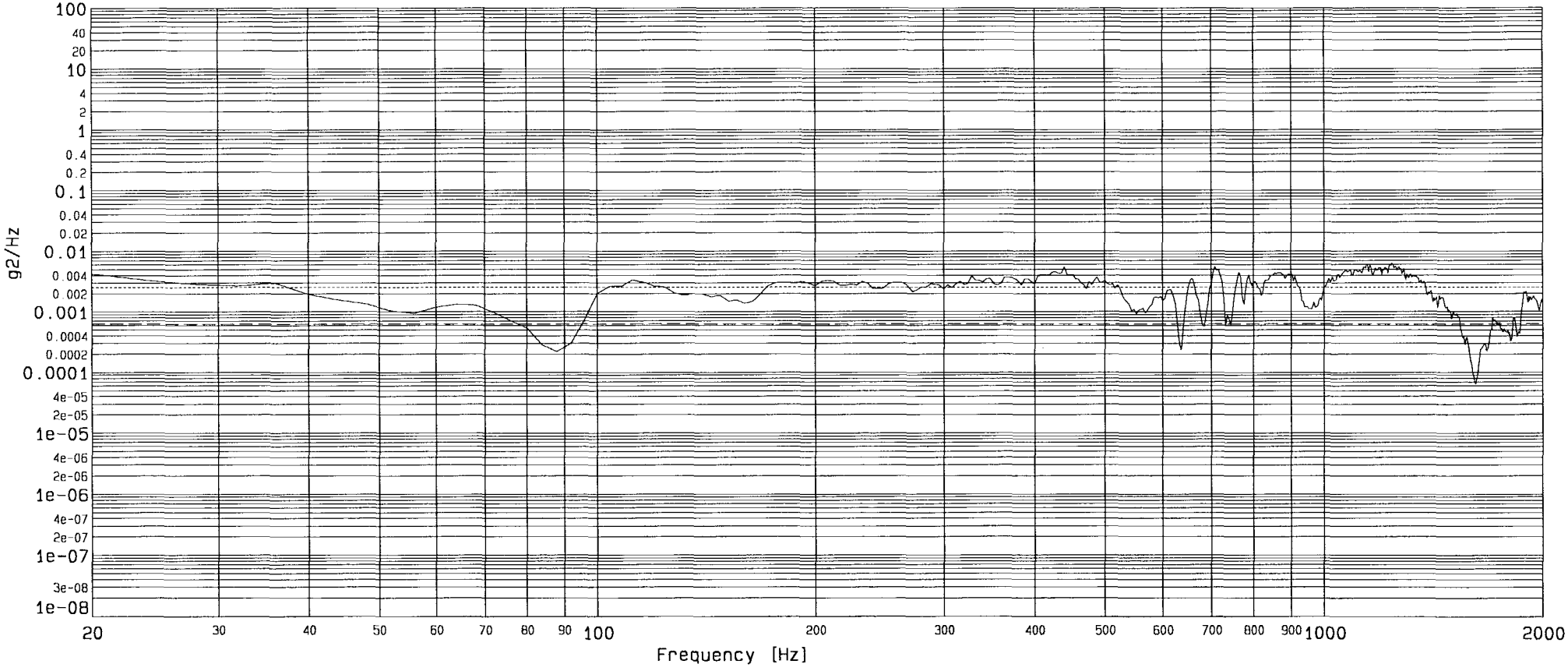
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09:33:20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.17 g
Number of averages : 70

Trace identification :
N_CONTROL_Z
Reference
Upper Ab
Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

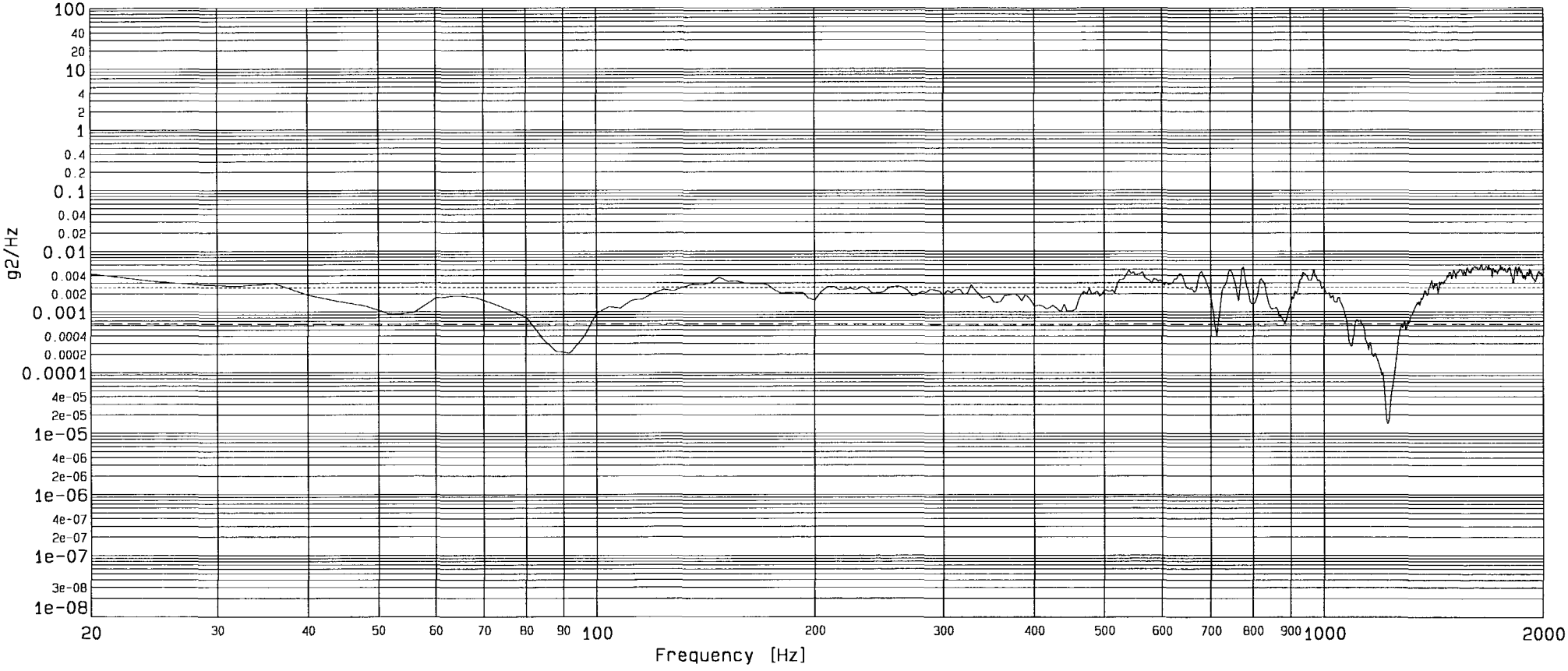
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09: 33: 20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.30 g
Number of averages : 70

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

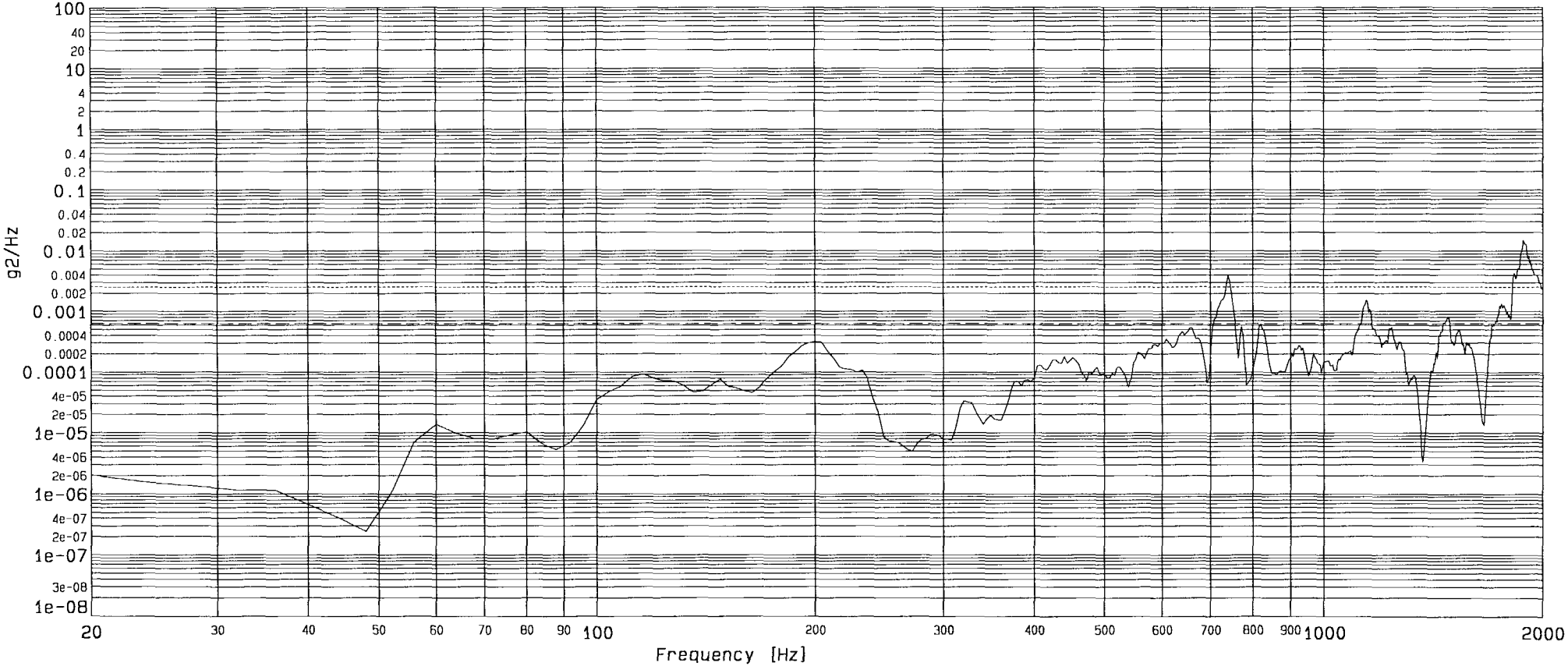
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09:33:20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.29 g
Number of averages : 70

Trace identification :
N_CONTROL_X
Reference
Upper Ab
Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

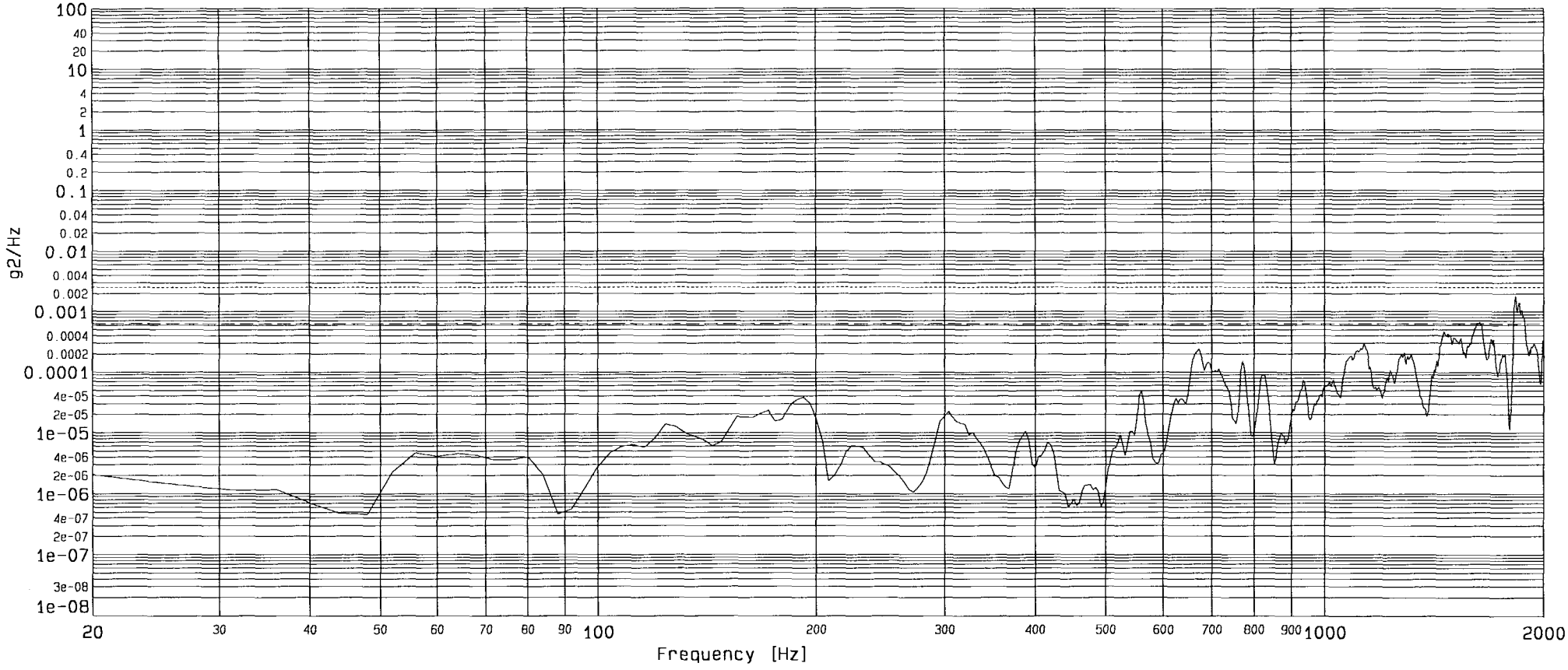
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09: 33: 20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 533.49e-03 g
Number of averages : 70

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

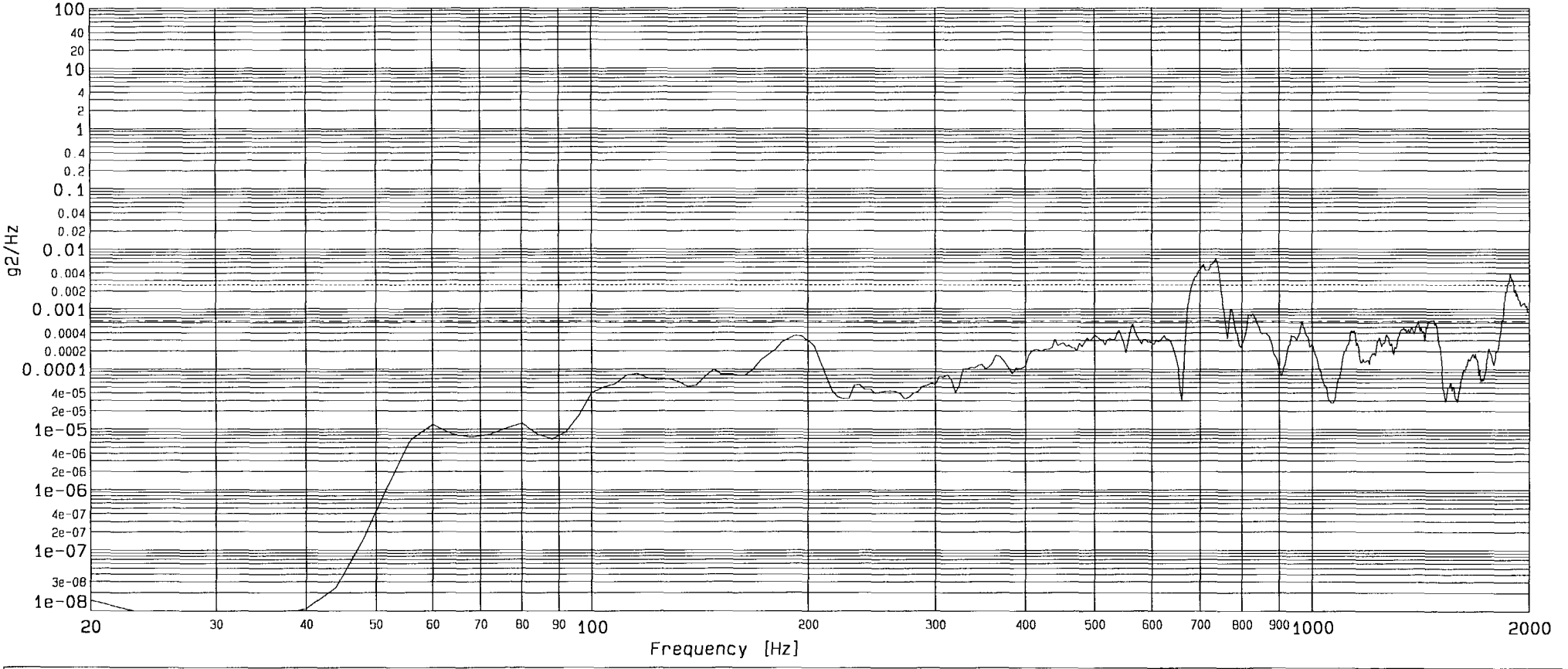
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09:33:20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.01 g
Number of averages : 70

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

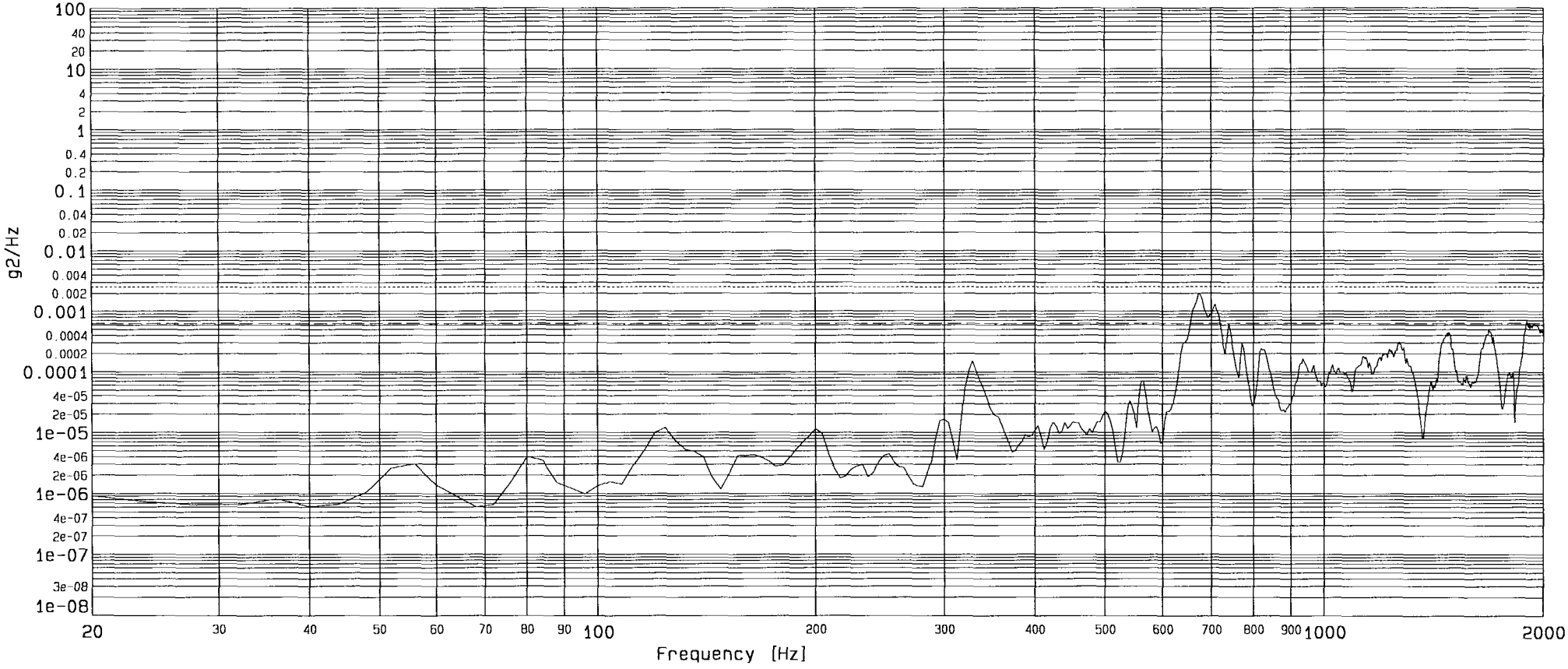
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09:33:20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 565.46e-03 g
Number of averages : 70

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

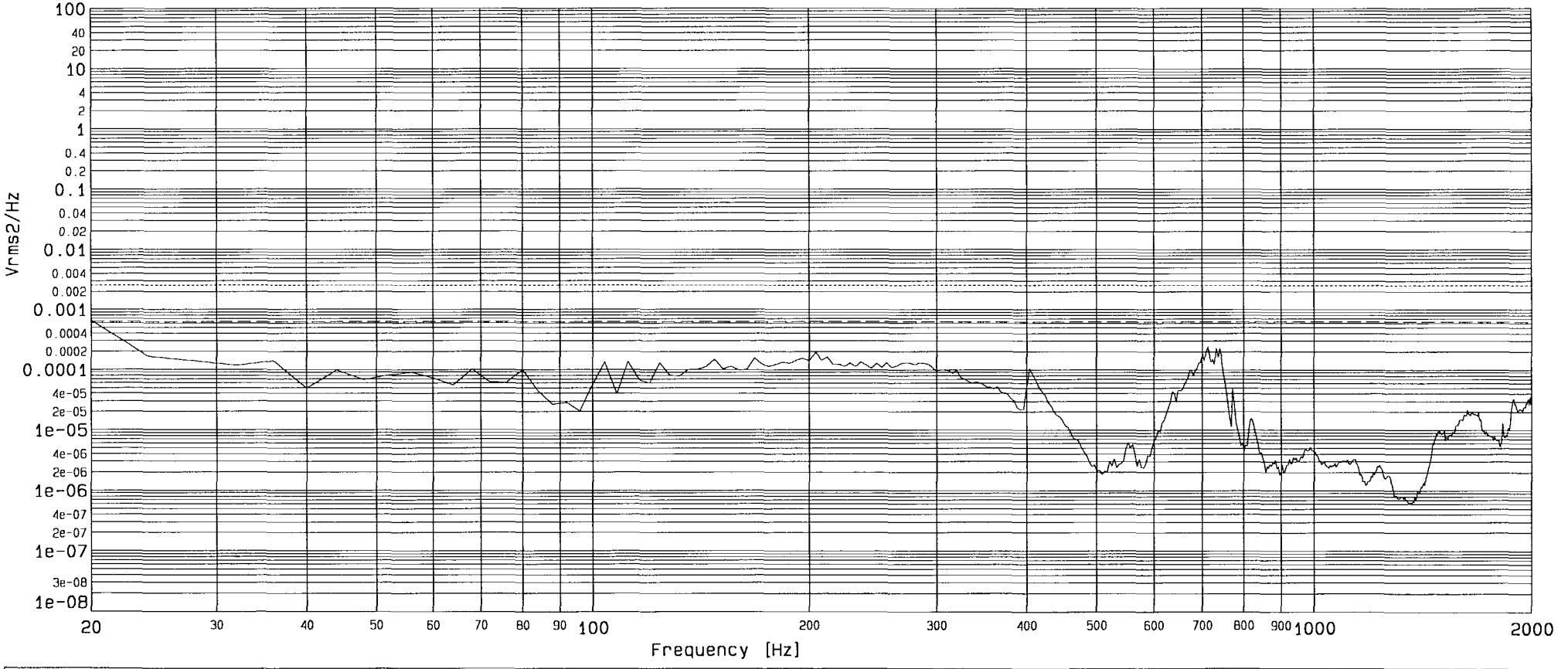
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09: 33: 20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 254.60e-03 Vrms
Number of averages : 2

Trace identification :
- Drive PSD
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

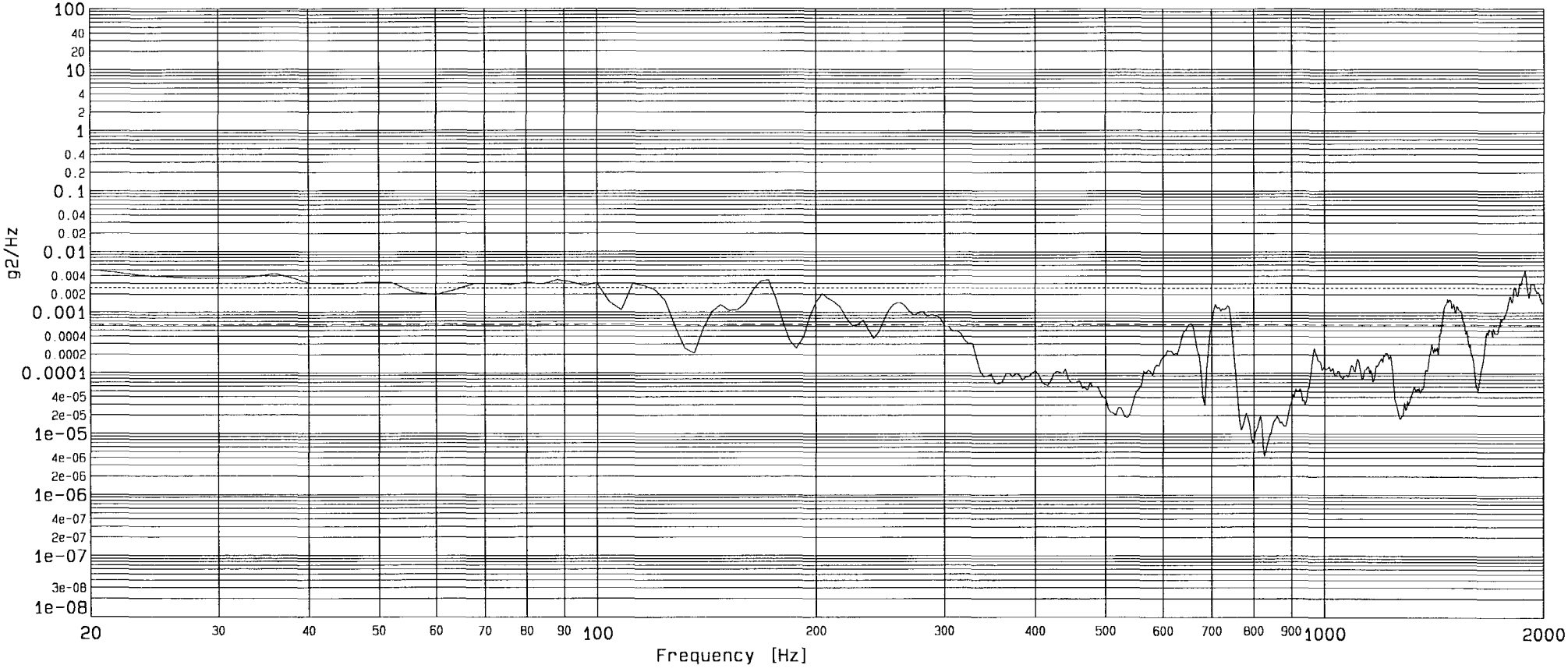
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09: 33: 20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.19 g
Number of averages : 70

Trace identification :
A2Z_YPANEL_TE
Reference
Upper Ab
Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

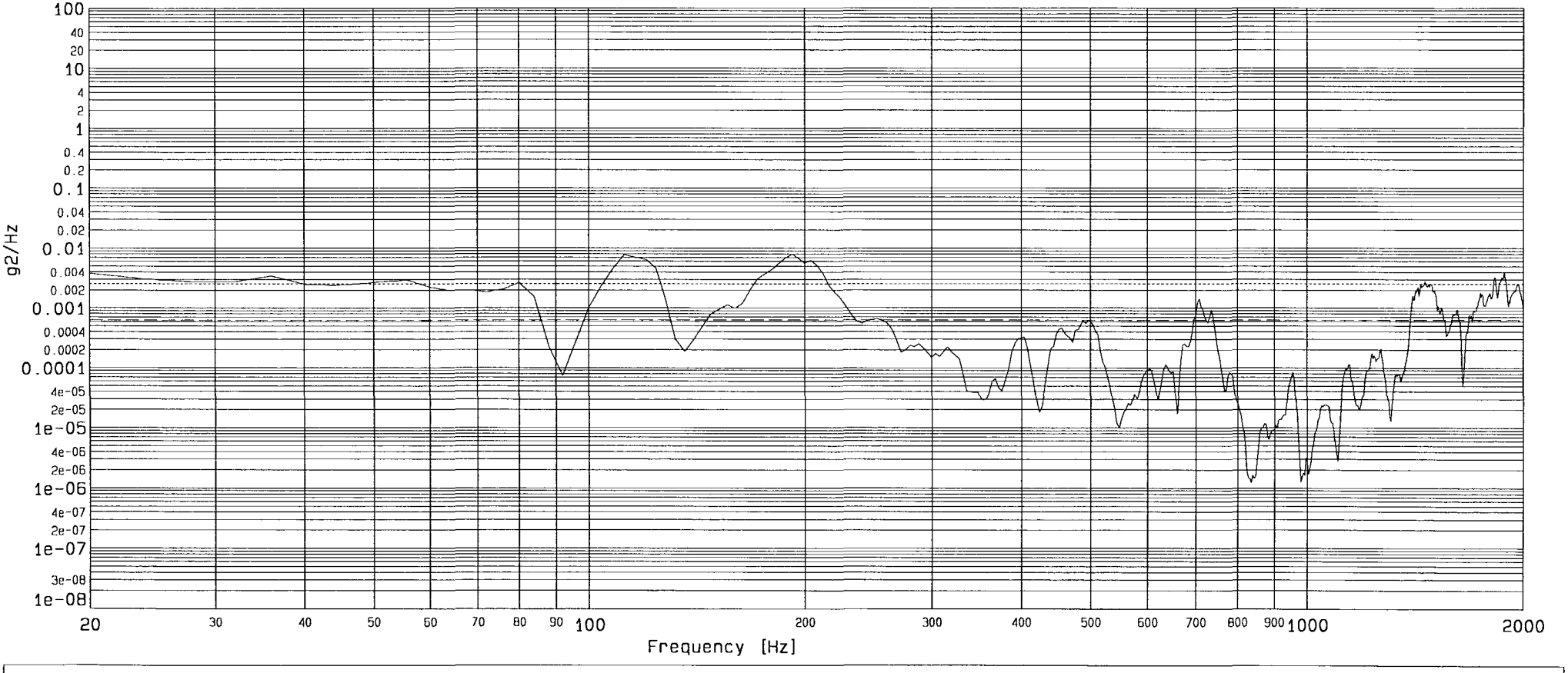
Project : hirdls
Test : Z_HIRDLS
Run : 15 062305

Date : 23-06-02
Time : 09: 33: 20
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.30 g
Number of averages : 70

Trace identification :
- A3Z_XPANEL_CCI
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -6 db

run 062305

date 06-23-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

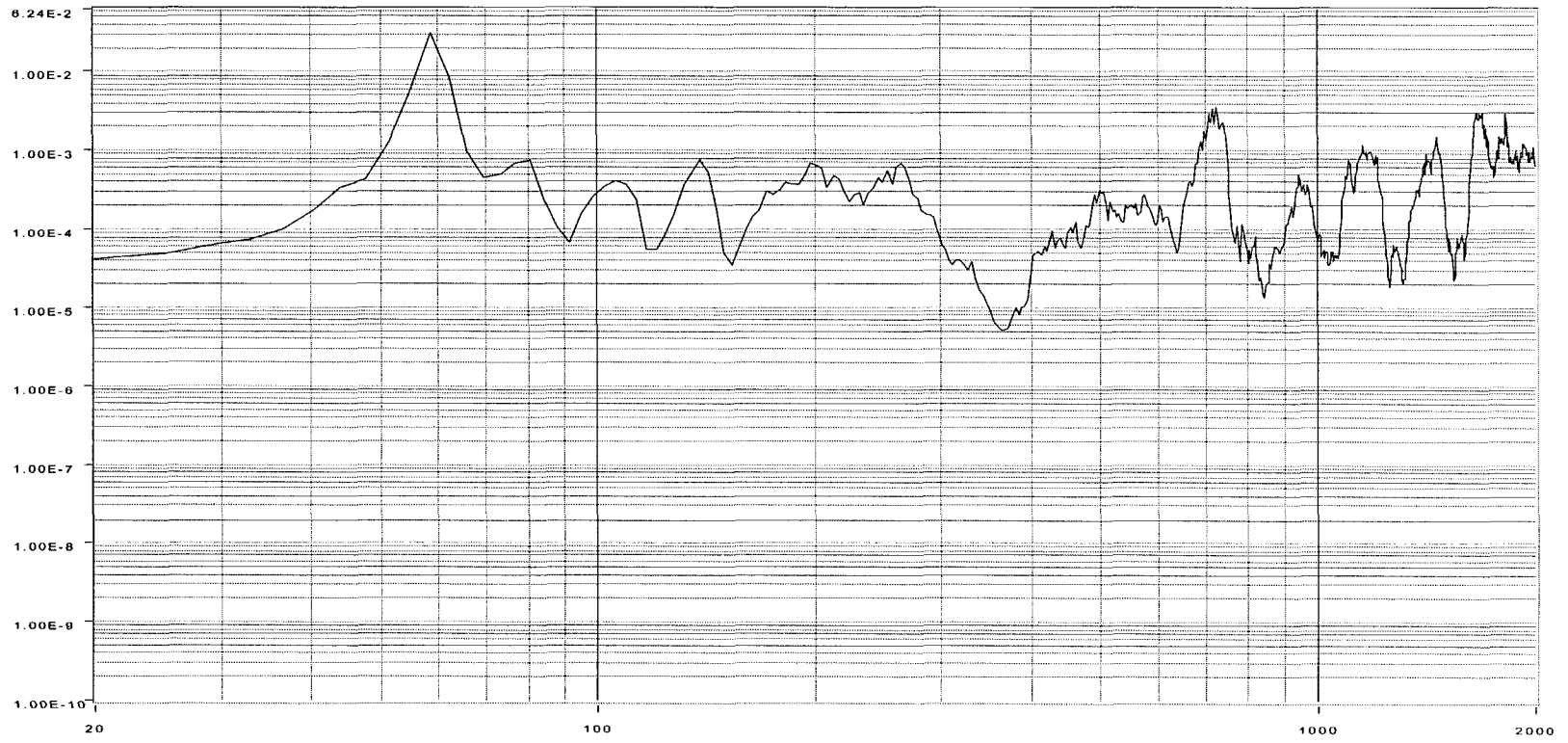
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 35.00

RMS= 1.072E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 9:27:56

Test title: HIRDLS VIBRATION TEST: Z-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062305

Test description: HIRDLS VIBRATION TEST: Z-AXIS -6db random

Part number/id: Y4011

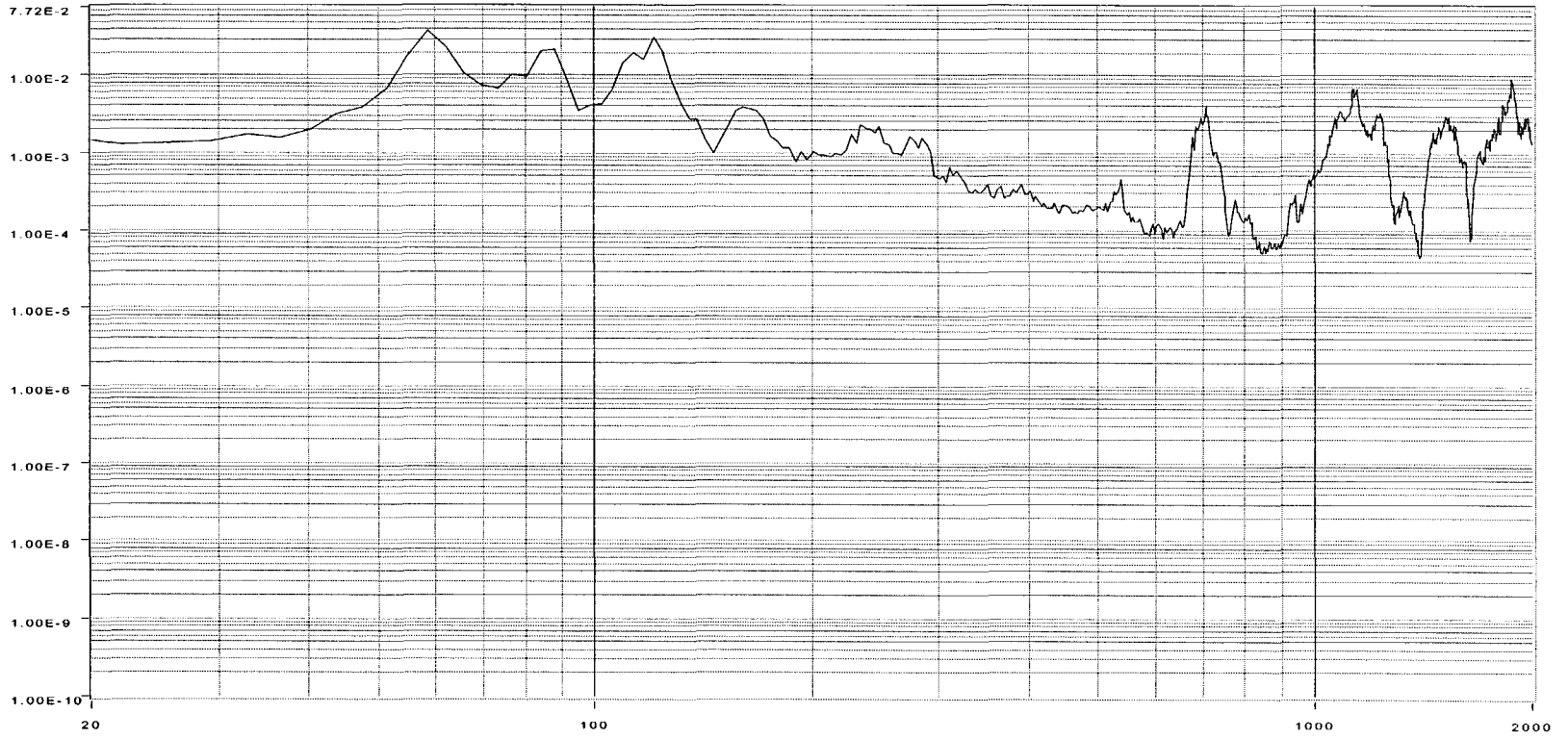
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 50.00

RMS= 1.897E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 9:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 9:27:56

Test title: HIRDLS VIBRATION TEST: Z-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062305

Test description: HIRDLS VIBRATION TEST: Z-AXIS -6db random

Part number/id: Y4011

58.6 Hz

.0125 g²/Hz

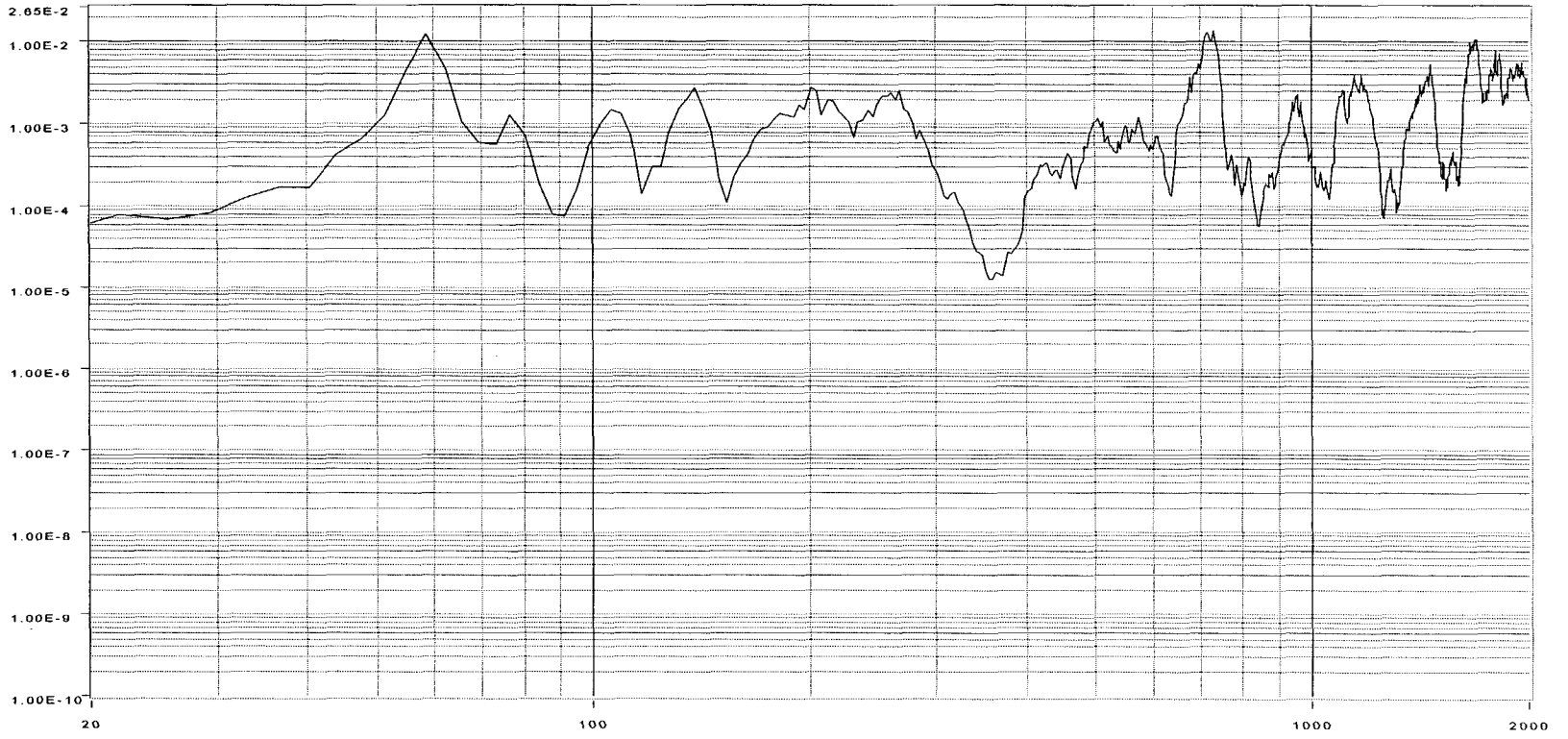
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Start Time: 50.00

Channel Description: BOX 4 CH 3 SN=AH55

RMS= 1.906E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

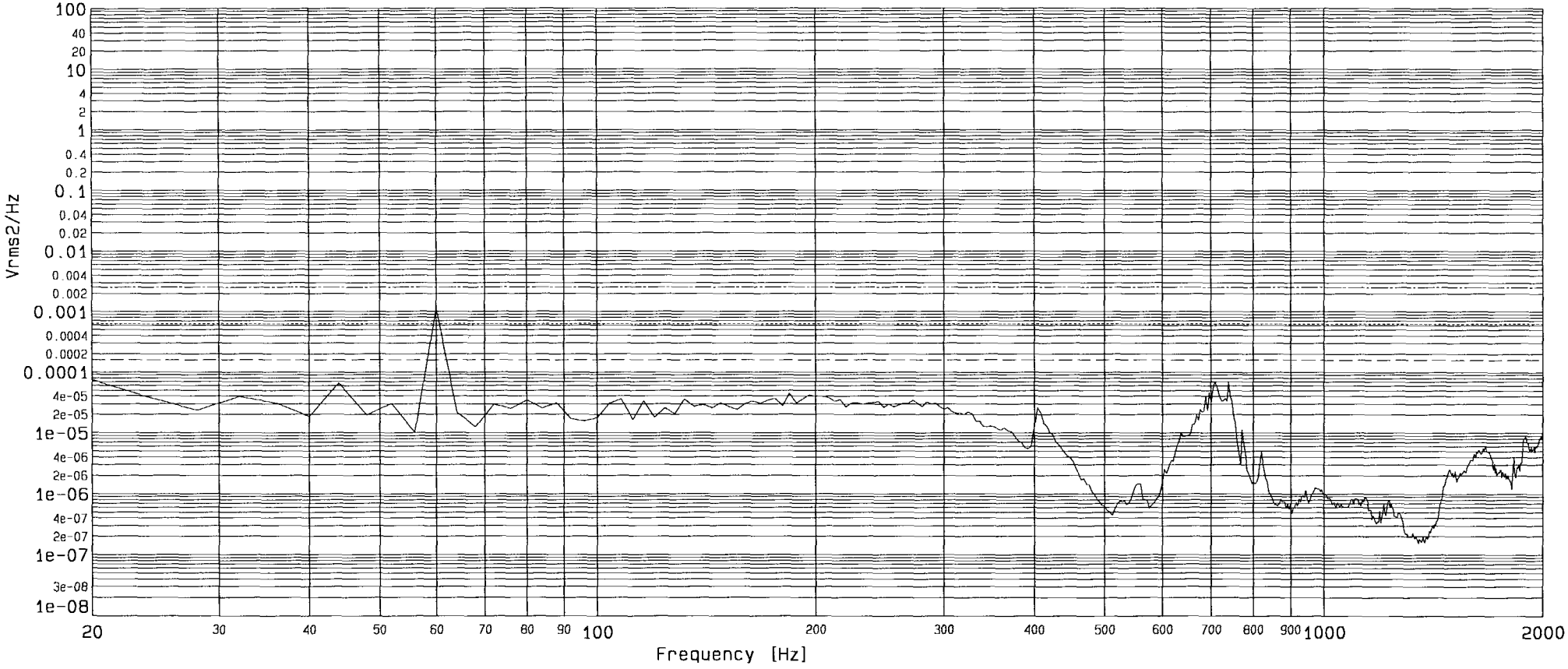
A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 9:44 AM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date :	23-06-02
Test	: Z_HIRDLS	Time :	07:07:07
Run	: 10 062304	Mode :	Random Vibration Control

Test level	: -12.00dB	PSD Level (RMS)	: 146.26e-03 Vrms	Trace identification :	Drive PSD
Elapsed time	: 00:00:30.2	Number of averages	: 2		Reference
Degrees of freedom	: 280				Upper Ab
Control strategy	: Average				Lower Ab
Frequency resolution	: 4 Hz				



HIRDLS Z AXIS 20-2K RANDOM -12 db

run 062304

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

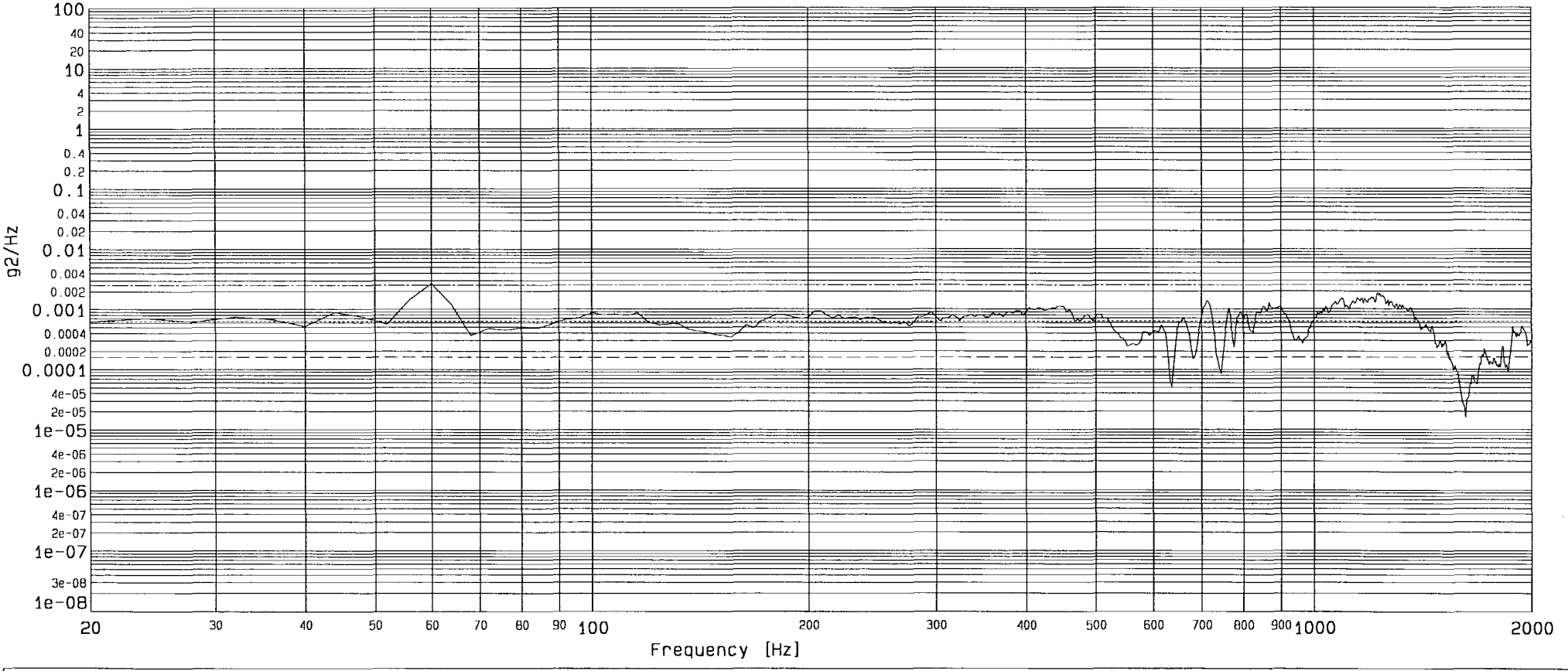
Project : hirdls
Test : Z_HIRDLS
Run : 10 062304

Date : 23-06-02
Time : 07:07:07
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.12 g
Number of averages : 75

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -12 db

run 062304

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

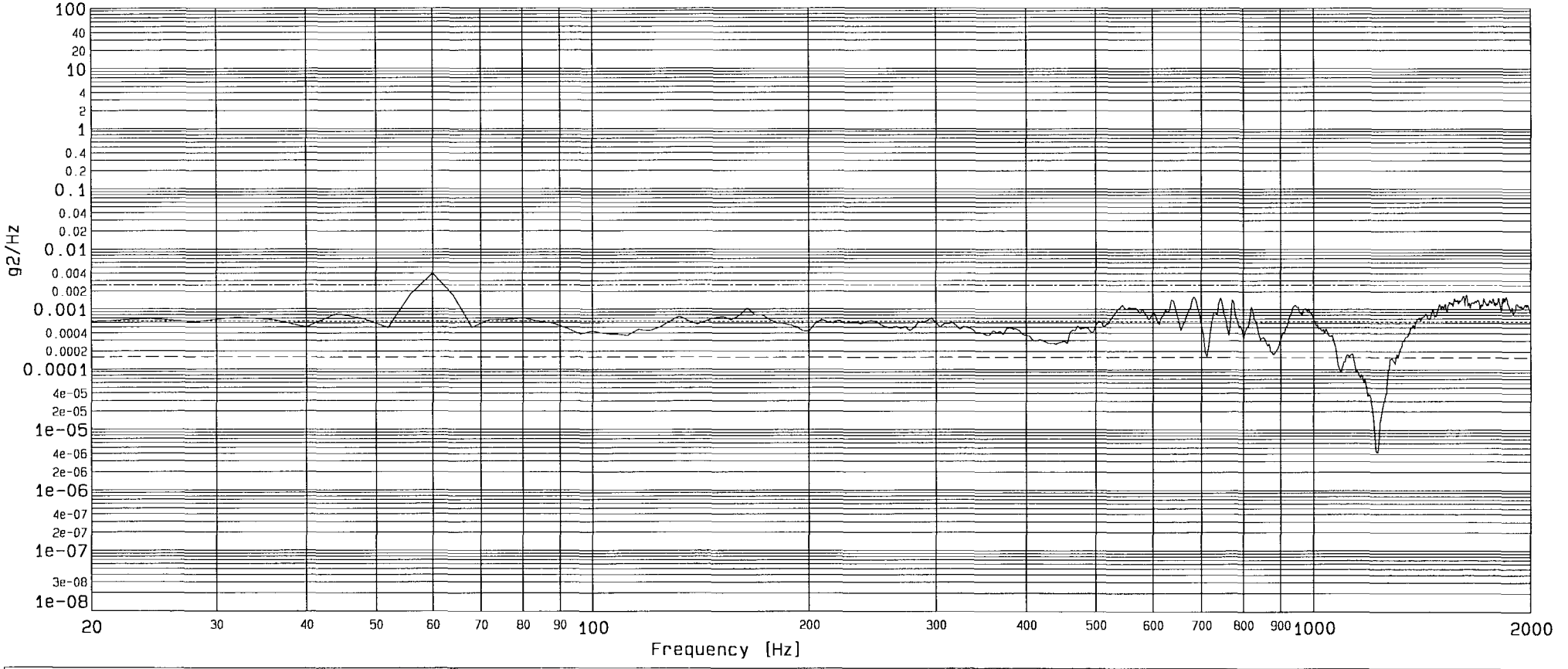
Project : hirdls
Test : Z_HIRDLS
Run : 10 062304

Date : 23-06-02
Time : 07:07:07
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.20 g
Number of averages : 75

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -12 db

run 062304

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

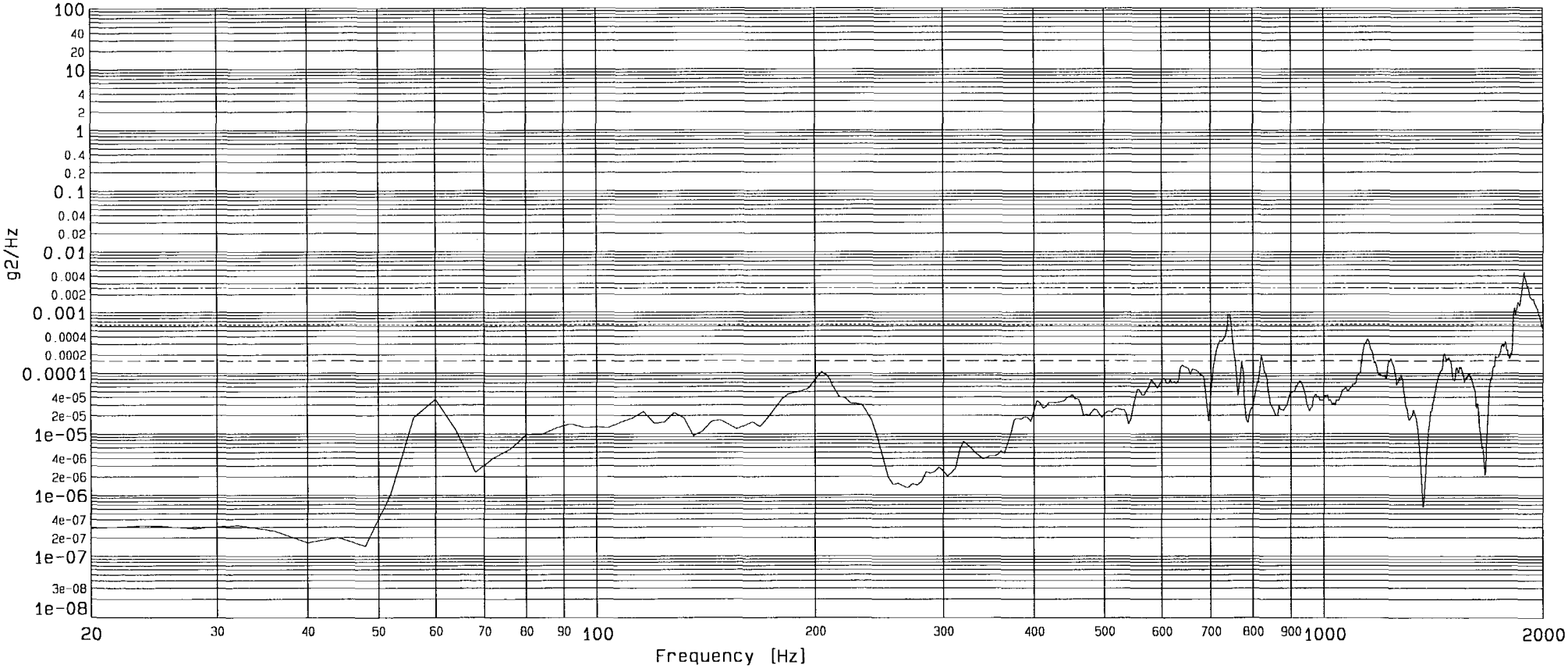
Project : hirdls
Test : Z_HIRDLS
Run : 10 062304

Date : 23-06-02
Time : 07:07:07
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 668.93e-03 g
Number of averages : 75

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -12 db

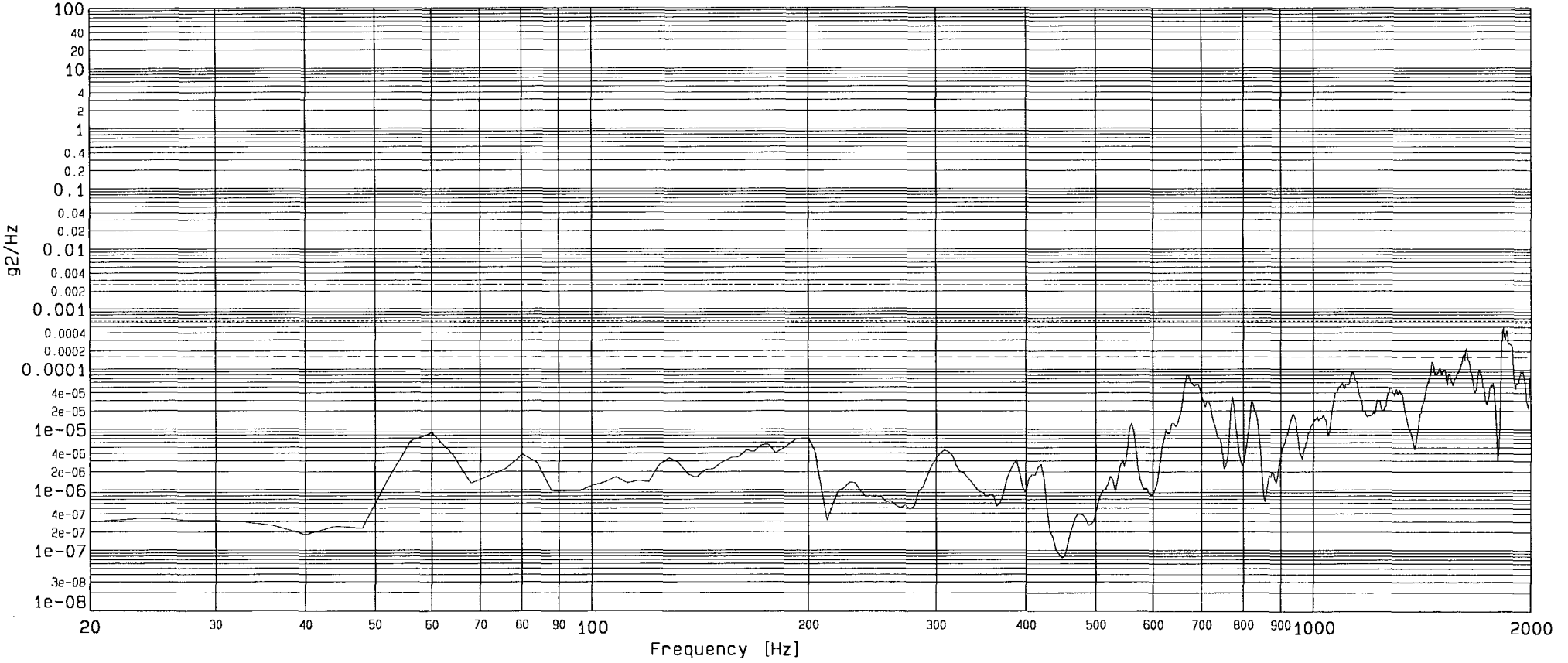
run 062304

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date :	23-06-02
Test	: Z_HIRDLS	Time :	07: 07: 07
Run	: 10 062304	Mode :	Random Vibration Control

Test level	: -12.00dB	PSD Level (RMS)	: 279.78e-03 g	Trace identification :	N_CONTROL_Y
Elapsed time	: 00: 00: 30.2	Number of averages	: 75		Reference
Degrees of freedom	: 280				Upper Ab
Control strategy	: Average				Lower Ab
Frequency resolution	: 4 Hz				



HIRDLS Z AXIS 20-2K RANDOM -12 db

run 062304

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

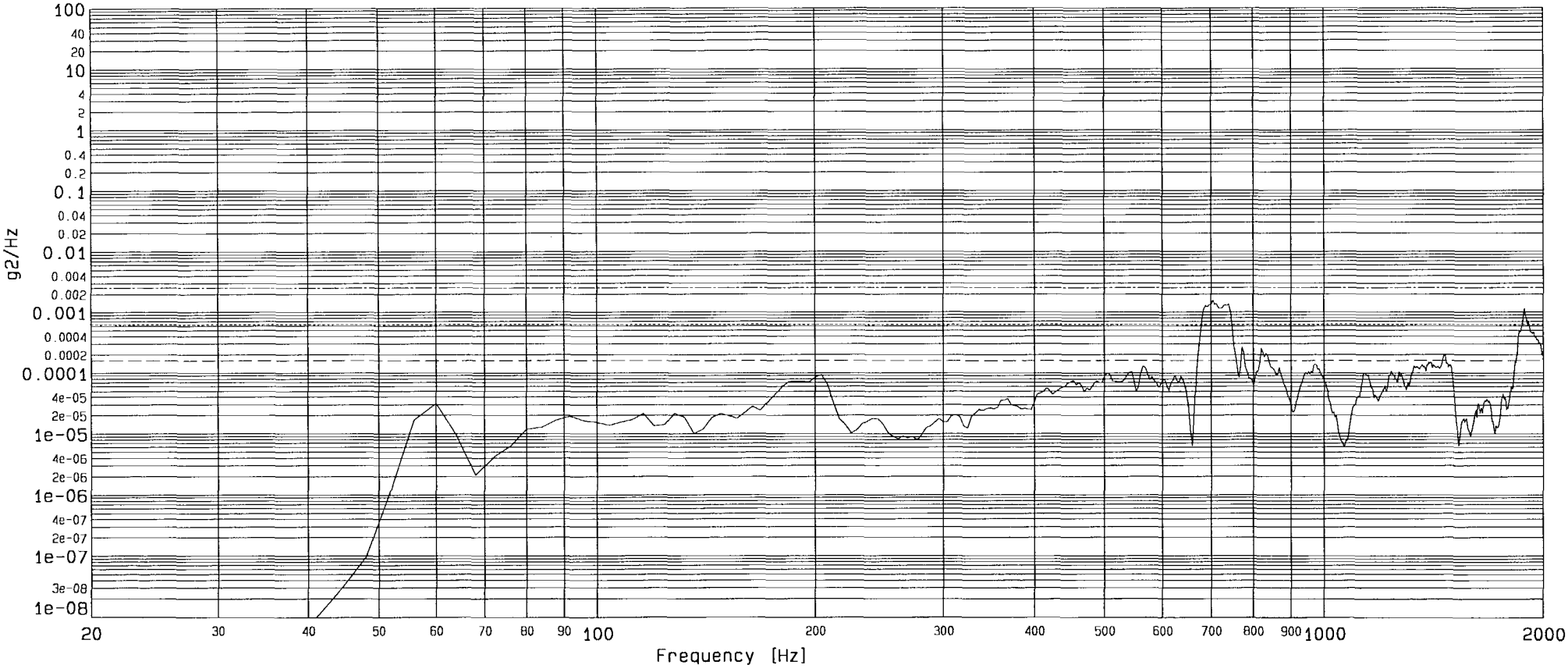
Project : hirdls
Test : Z_HIRDLS
Run : 10 062304

Date : 23-06-02
Time : 07:07:07
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 524.13e-03 g
Number of averages : 75

Trace identification :
S_CONTROL_X
Reference
Upper Ab
Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -12 db

run 062304

date 06-23-02

LOCKHEED MARTIN MISSILES & SPACE

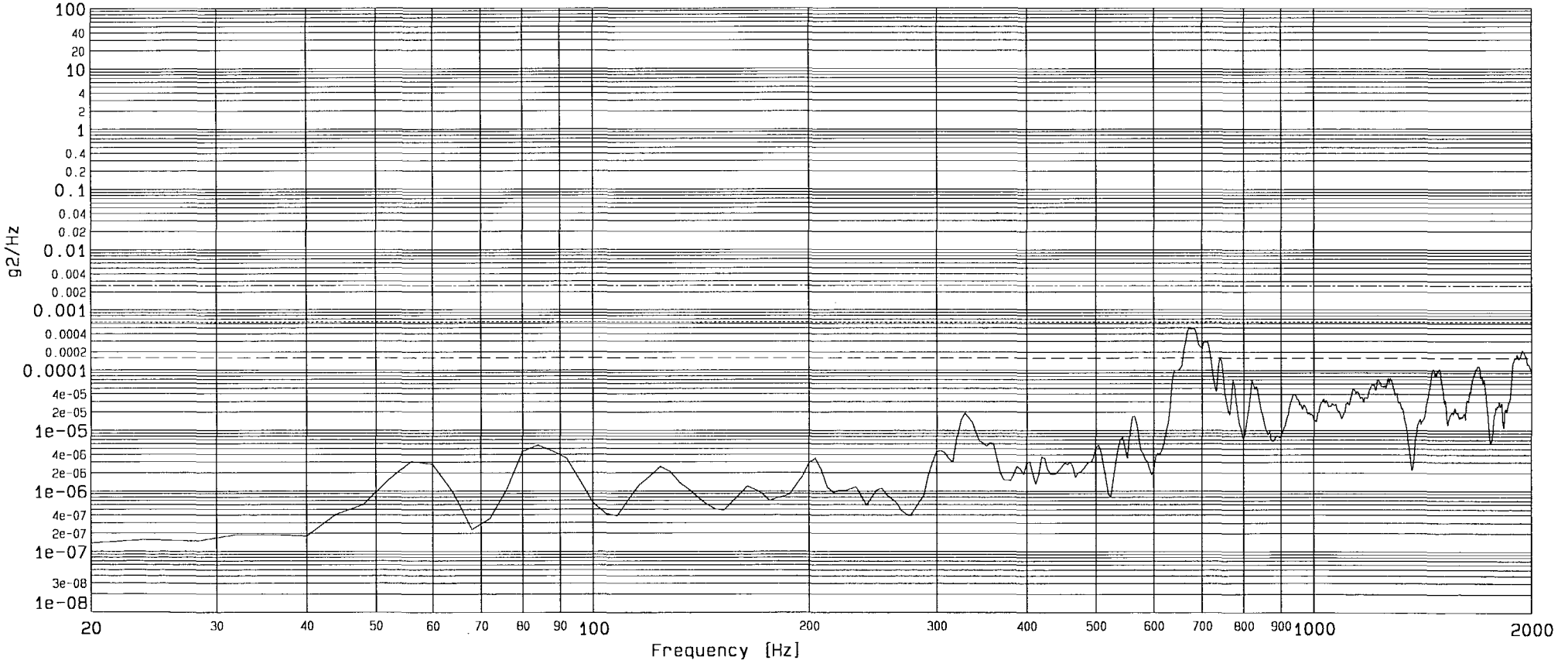
Project : hirdls
Test : Z_HIRDLS
Run : 10 062304

Date : 23-06-02
Time : 07:07:07
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 292.41e-03 g
Number of averages : 75

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z AXIS 20-2K RANDOM -12 db

run 062304

date 06-23-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

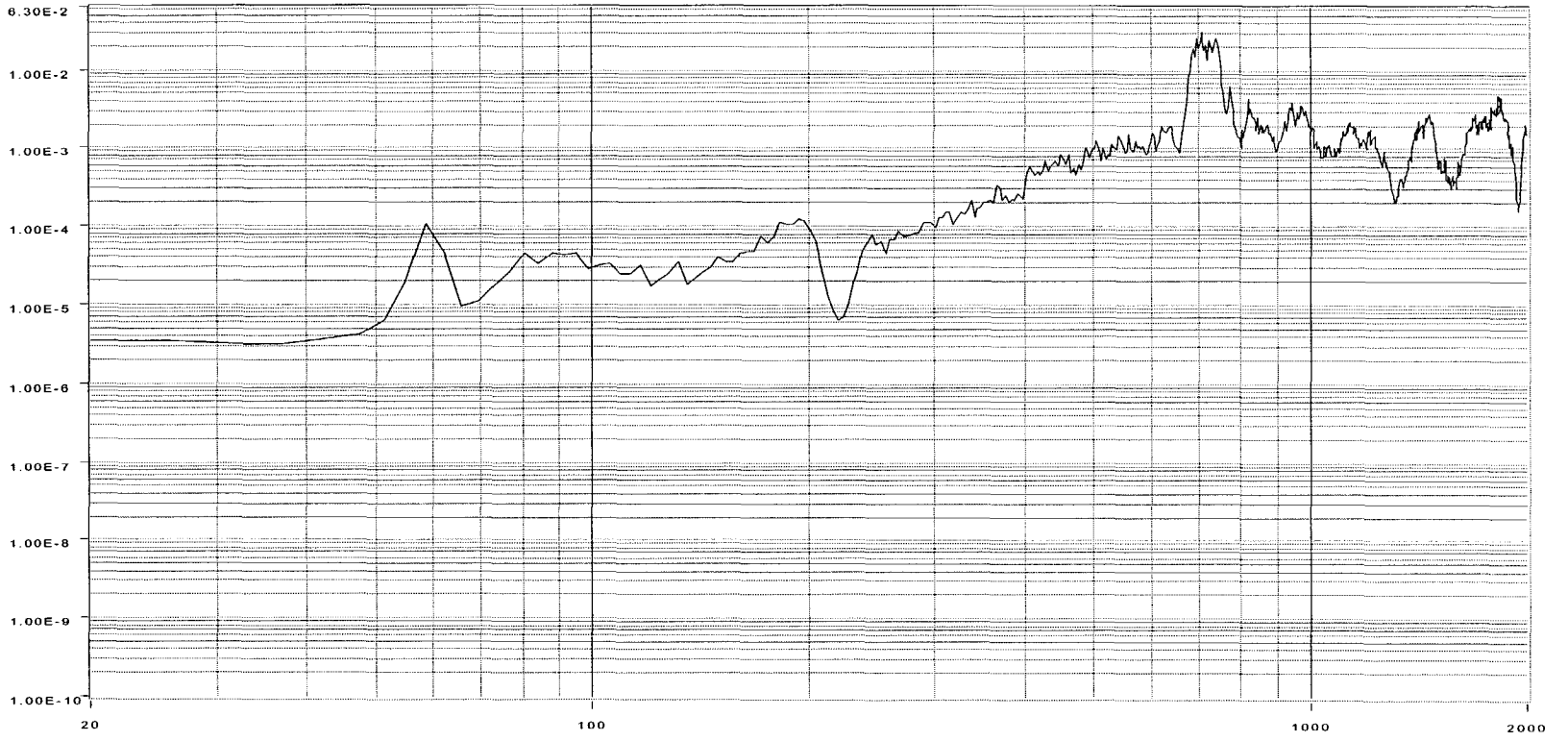
Channel #: 7 Node Number: 0007

Channel Label: A5 X

Channel Description:

Start Time: 35.00

RMS= 1.932E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

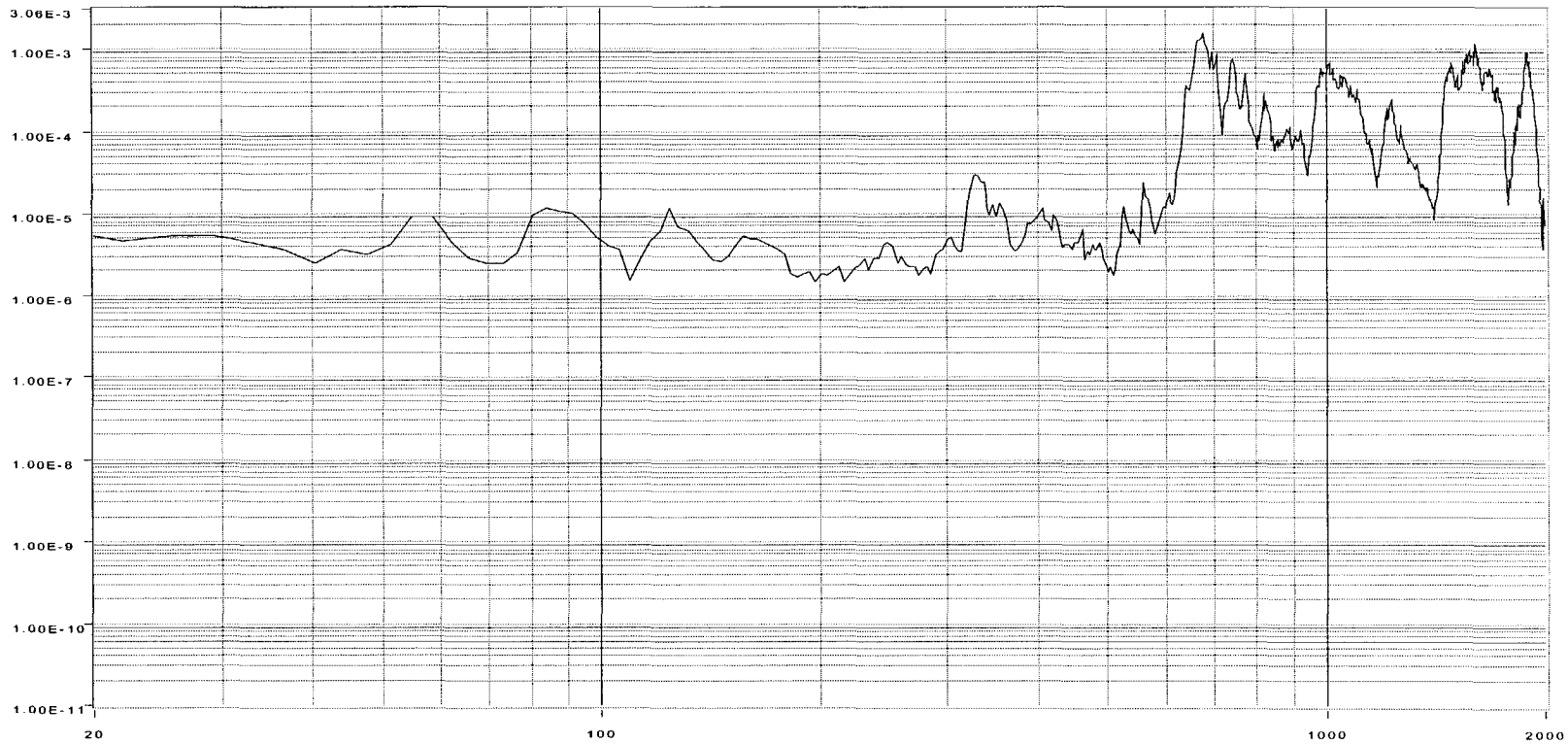
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 35.00

RMS= 6.243E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

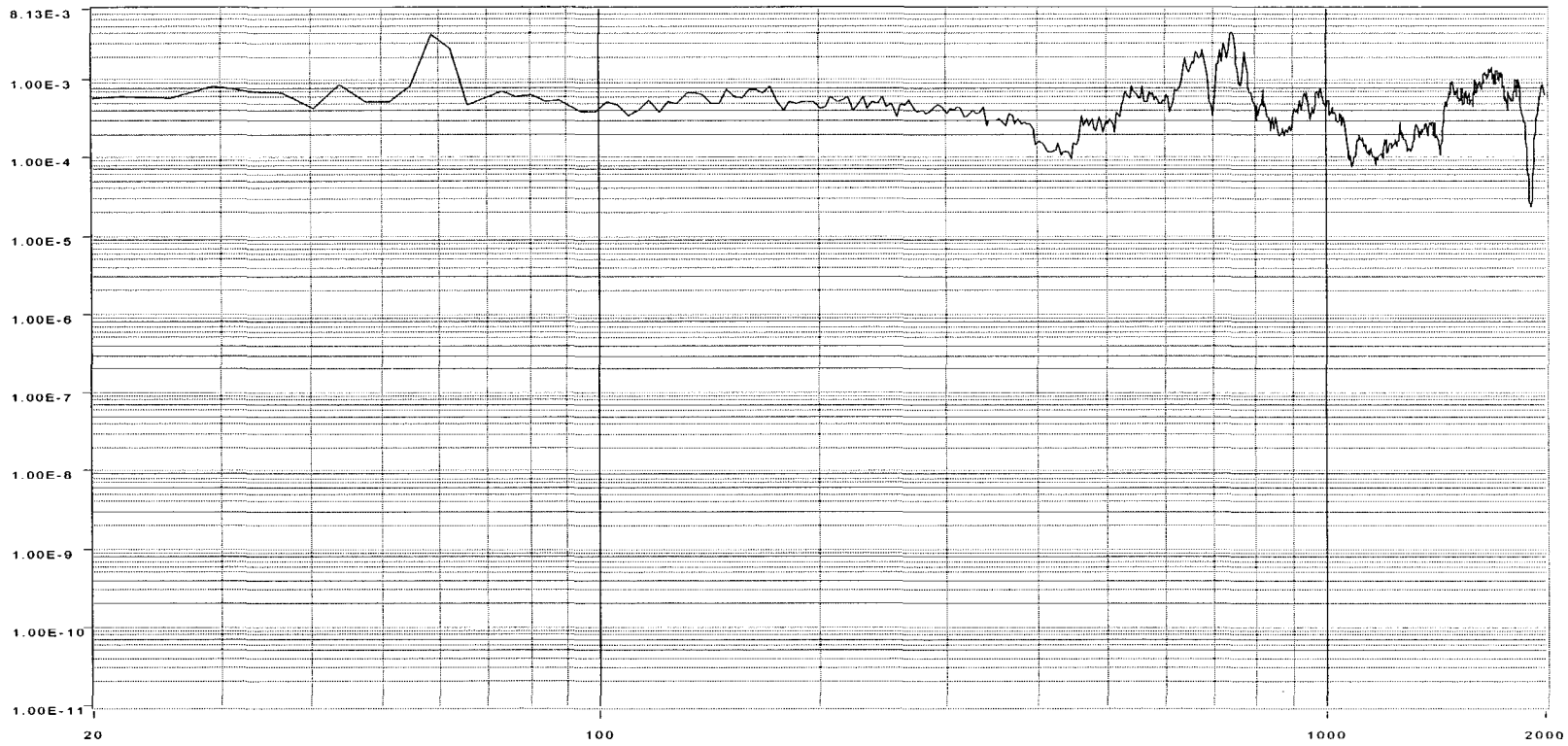
Channel #: 9 **Node Number:** 0009

Channel Label: A5 Z

Channel Description:

Start Time: 35.00

RMS= 1.053E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average A5 Z

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

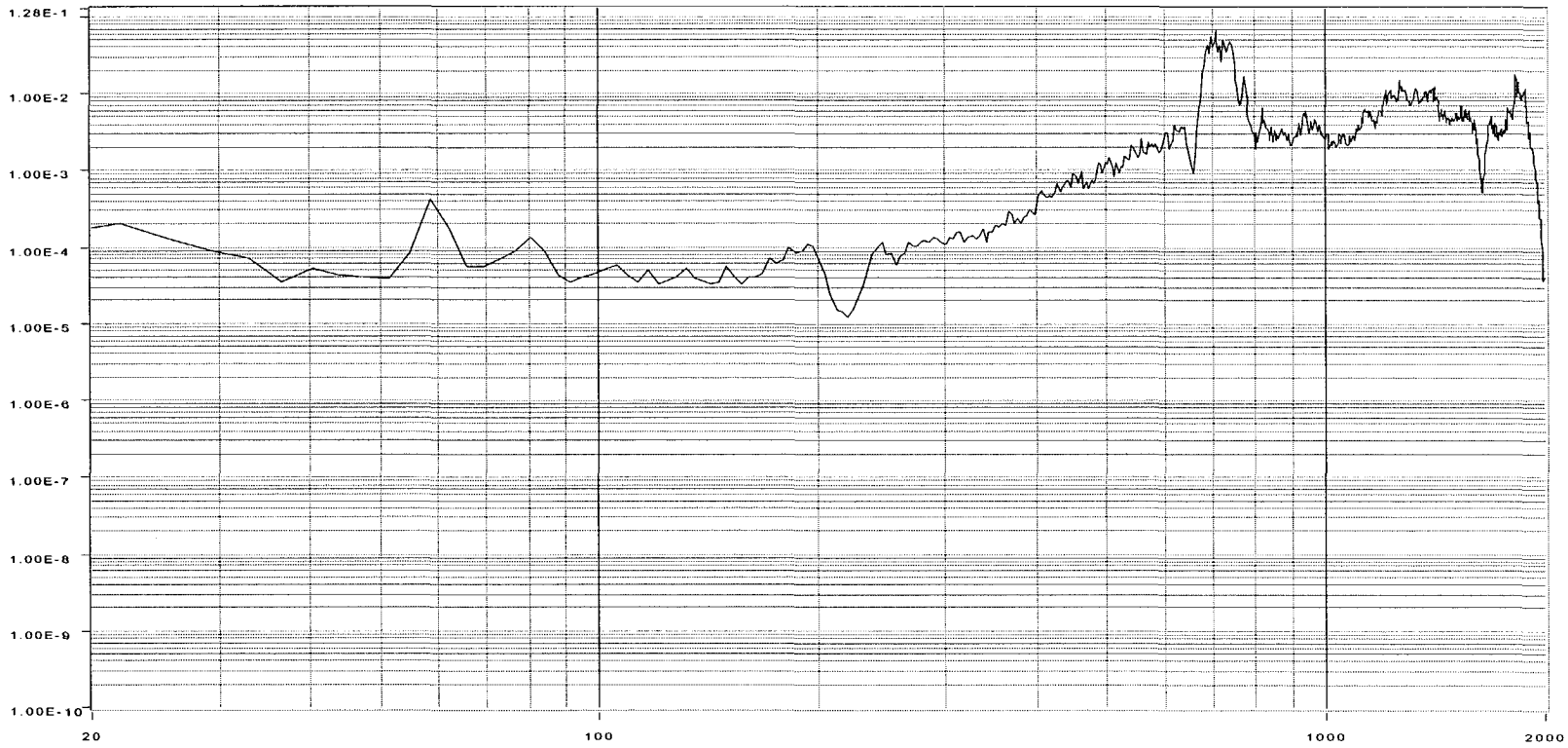
Channel #: 10 Node Number: 0010

Channel Label: A6 X

Channel Description:

Start Time: 35.00

RMS= 3.176E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

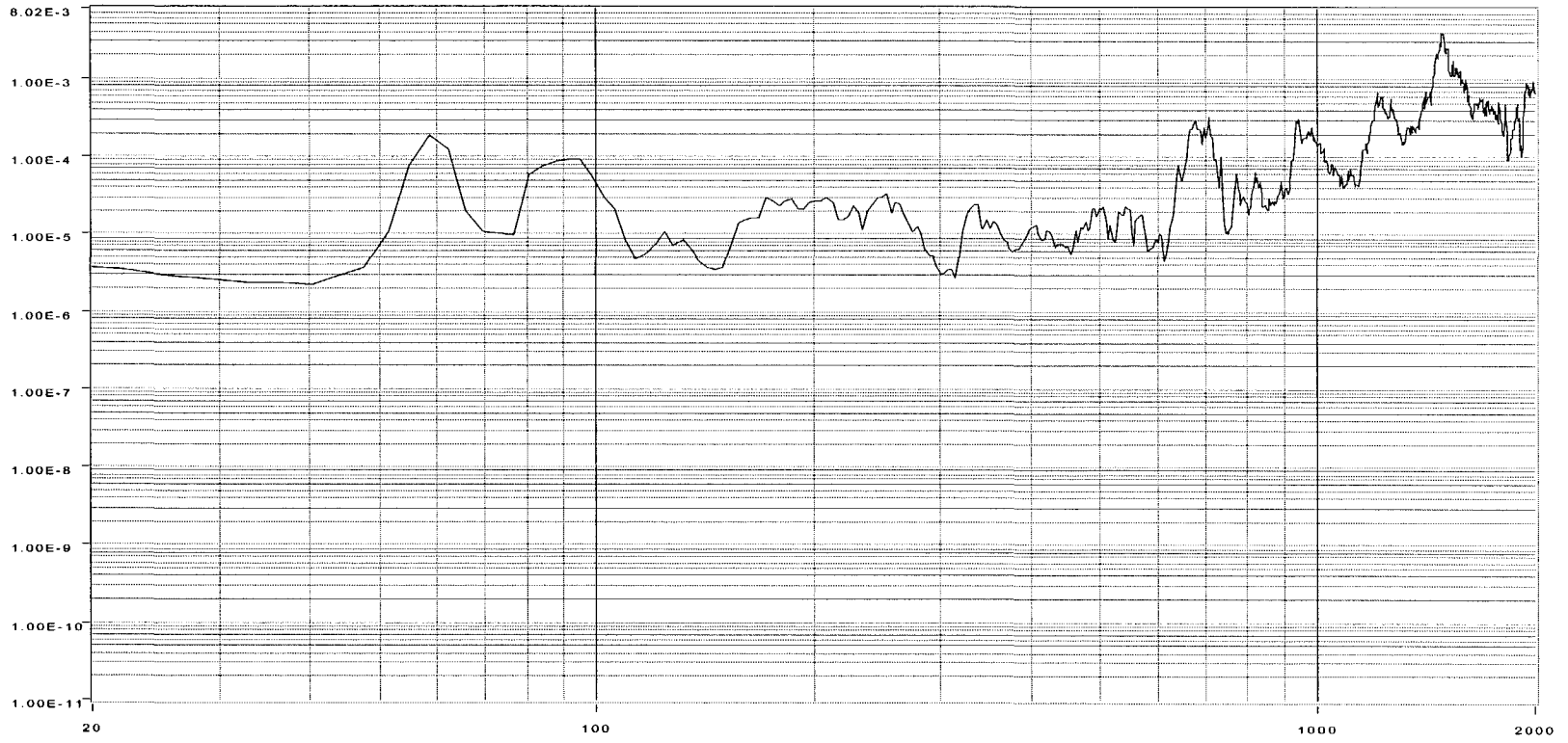
Channel #: 11 **Node Number:** 0011

Channel Label: A6 Y

Channel Description:

Start Time: 35.00

RMS= 7.766E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

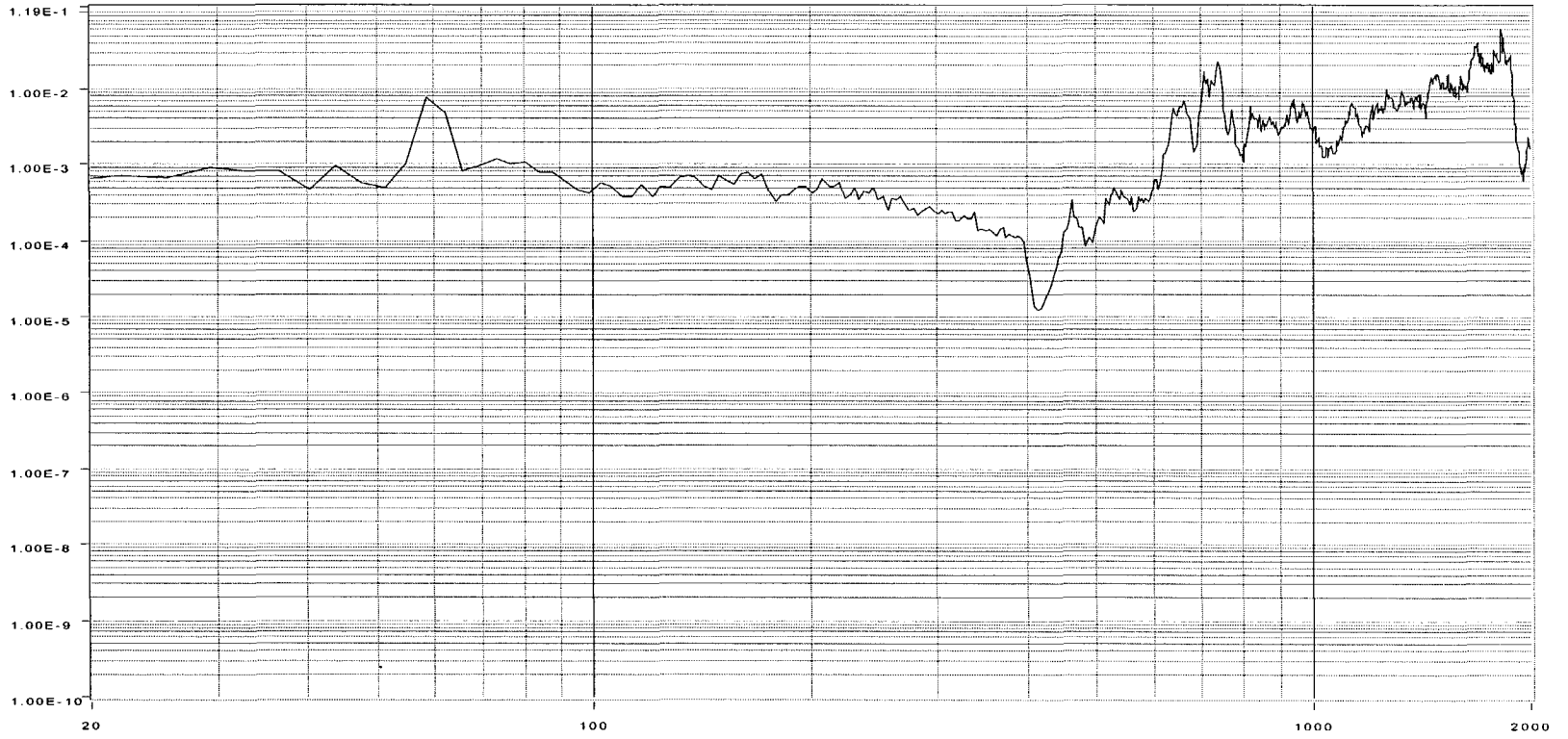
Channel #: 12 Node Number: 0012

Channel Label: A6 Z

Channel Description:

Start Time: 35.00

RMS= 3.642E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

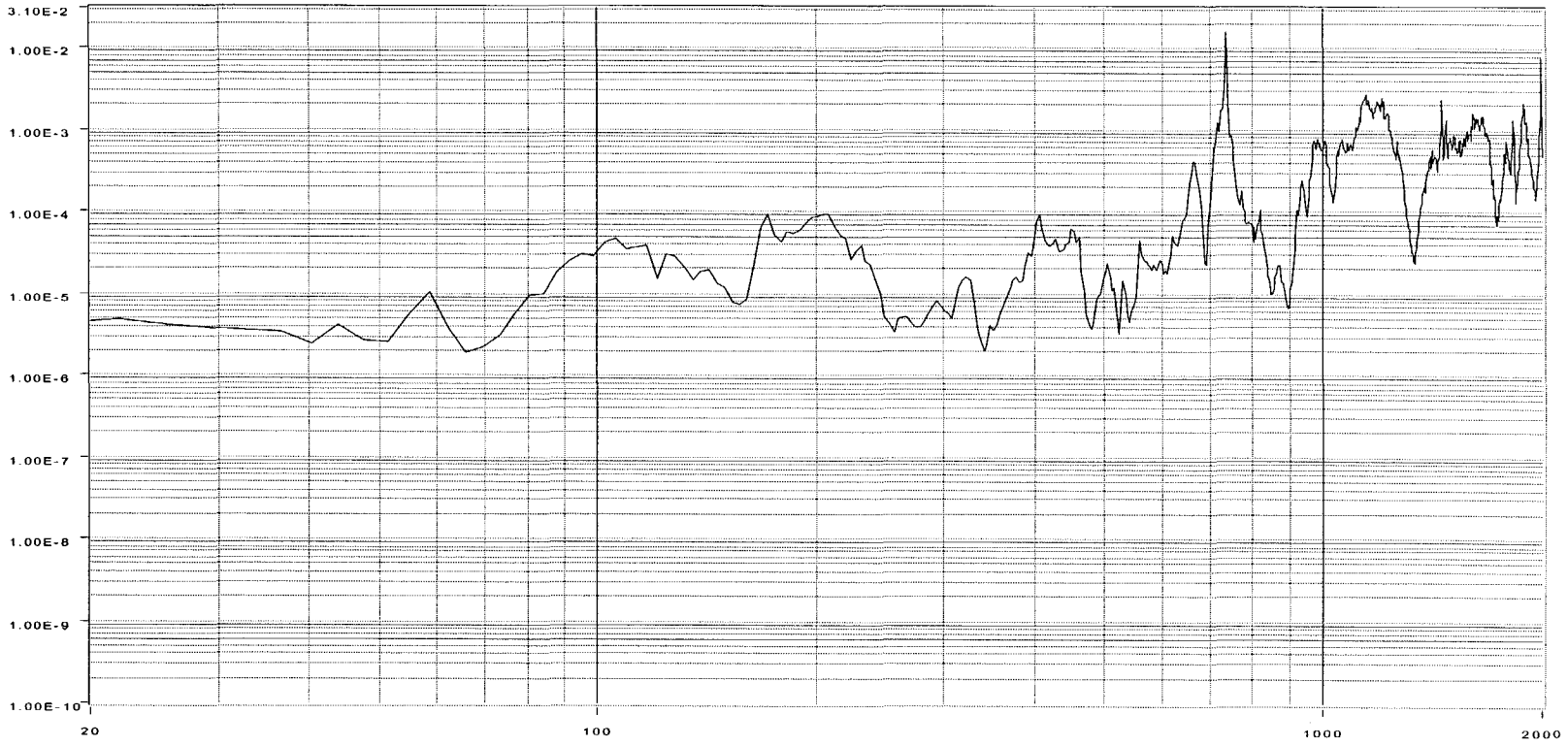
Channel #: 17 Node Number: 0017

Channel Label: A7 X

Channel Description:

Start Time: 35.00

RMS= 9.716E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

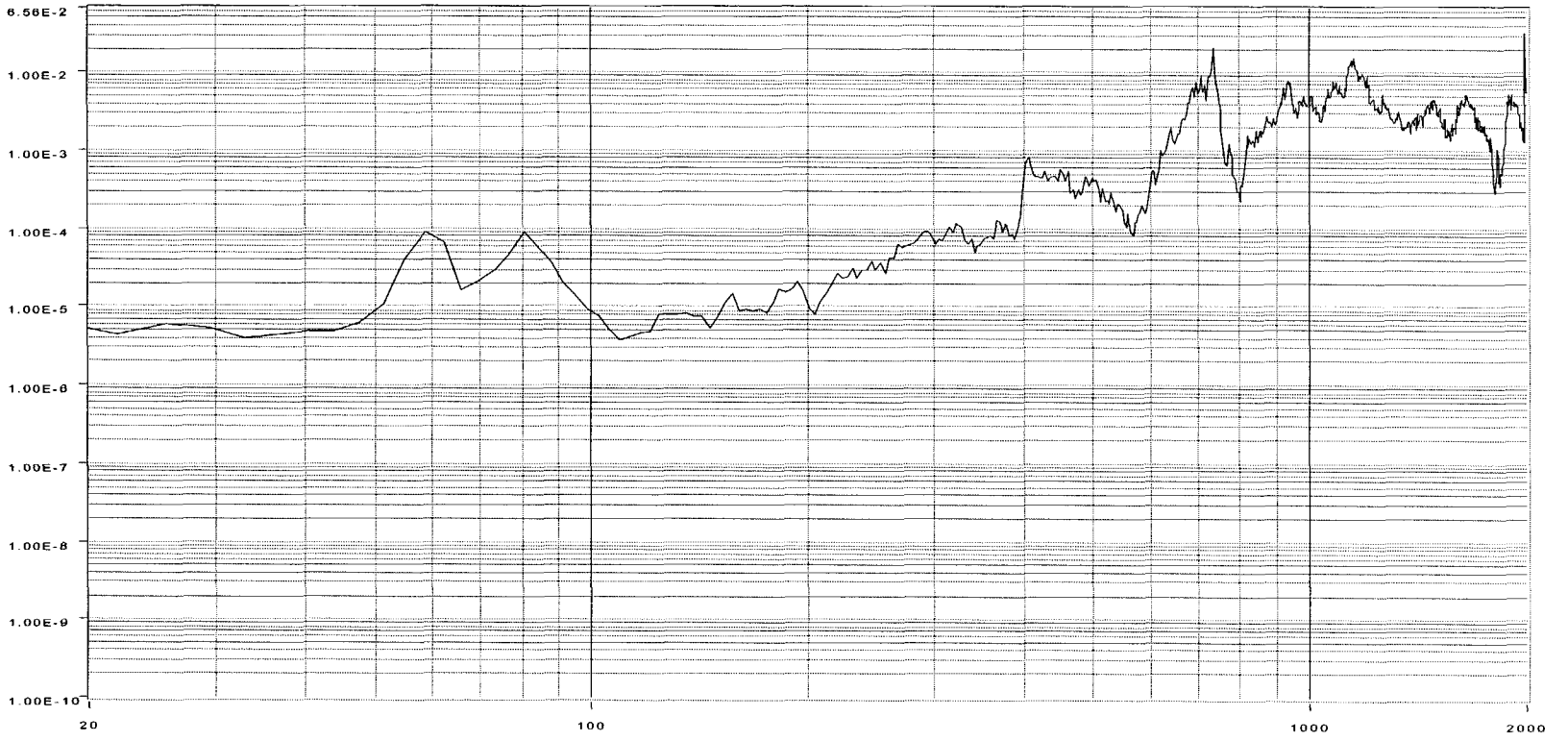
Channel #: 18 Node Number: 0018

Channel Label: A7 Y

Channel Description:

Start Time: 35.00

RMS= 2.248E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

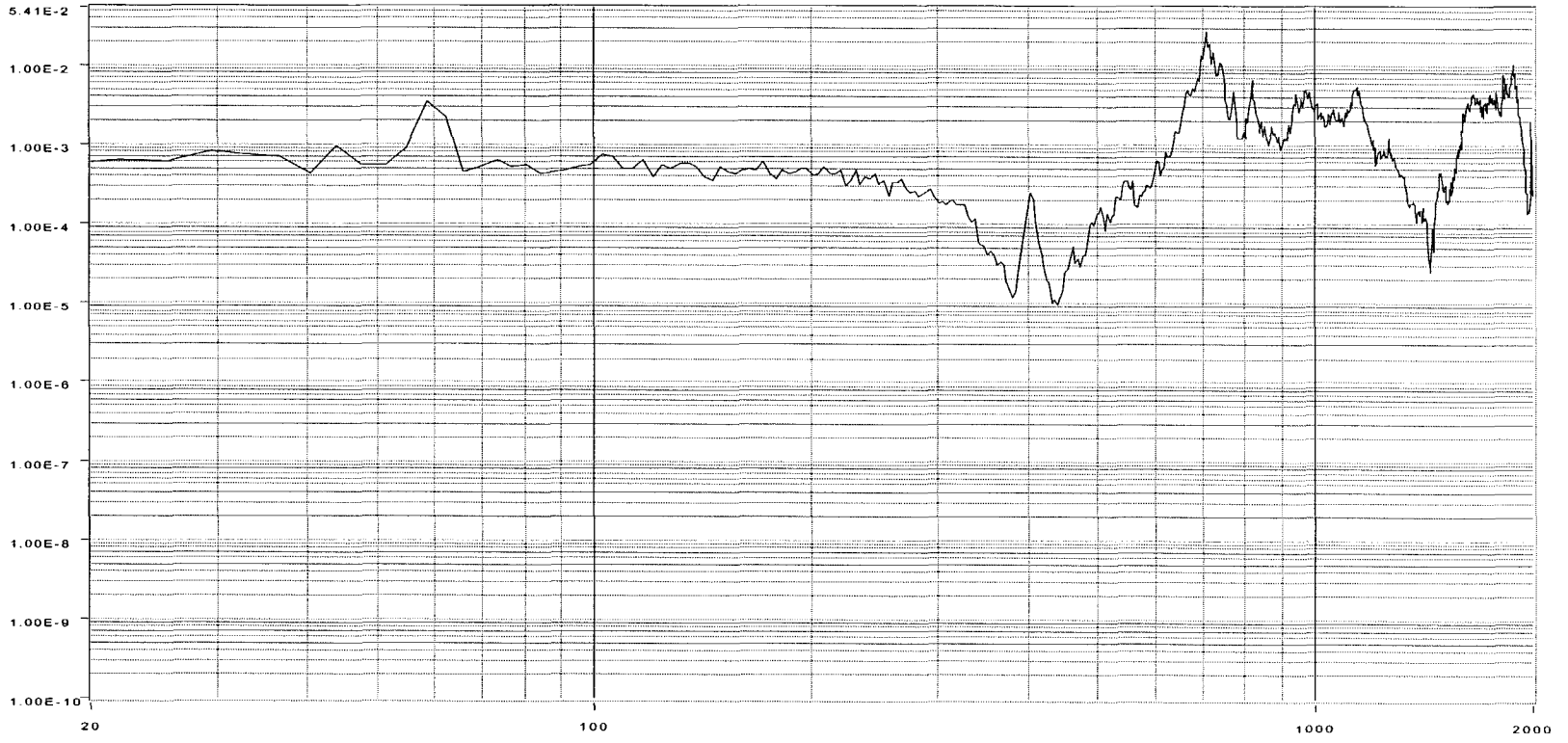
Channel #: 19 Node Number: 0019

Channel Label: A7 Z

Channel Description:

Start Time: 35.00

RMS= 1.965E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

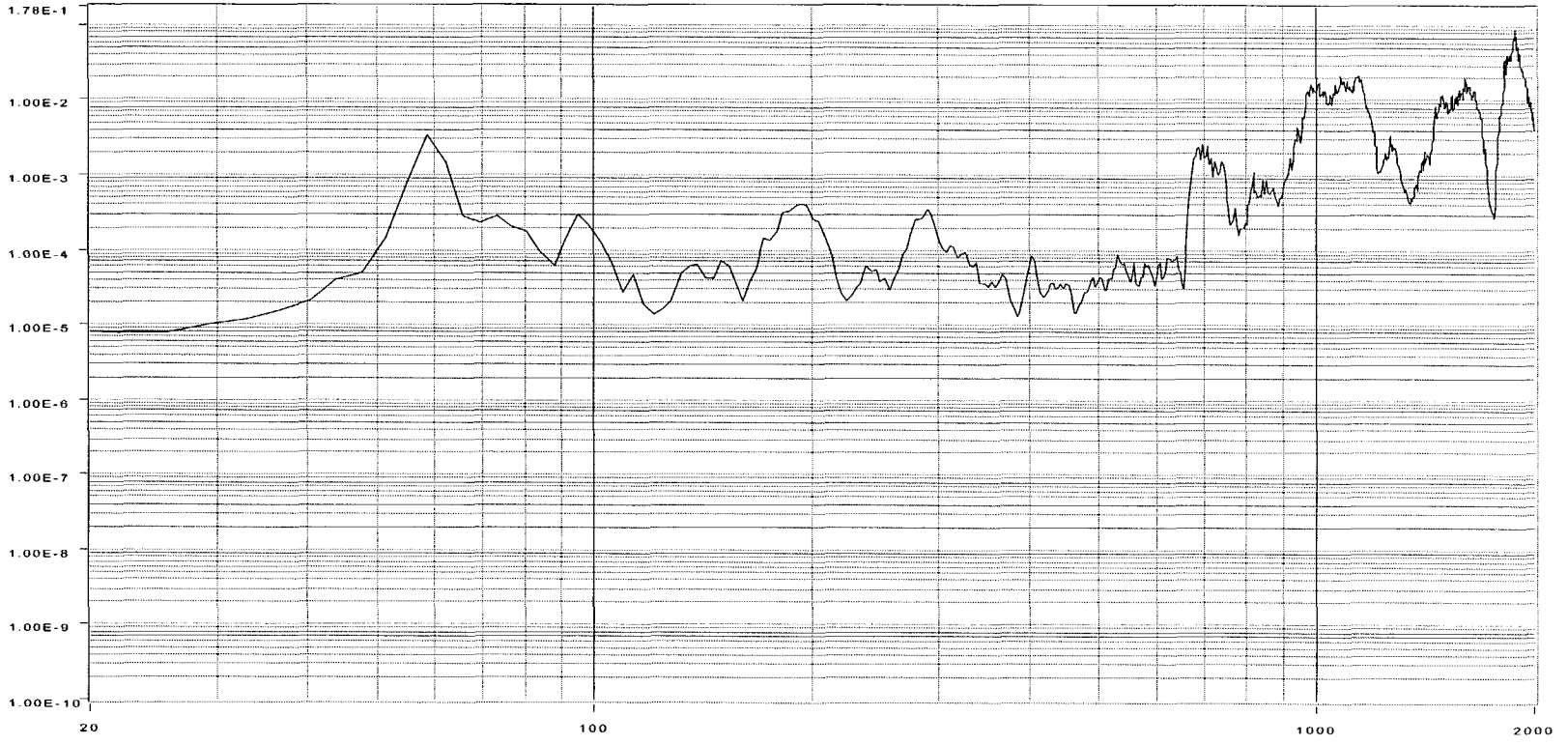
Channel #: 20 Node Number: 0020

Channel Label: A8 X

Channel Description:

Start Time: 35.00

RMS= 3.529E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

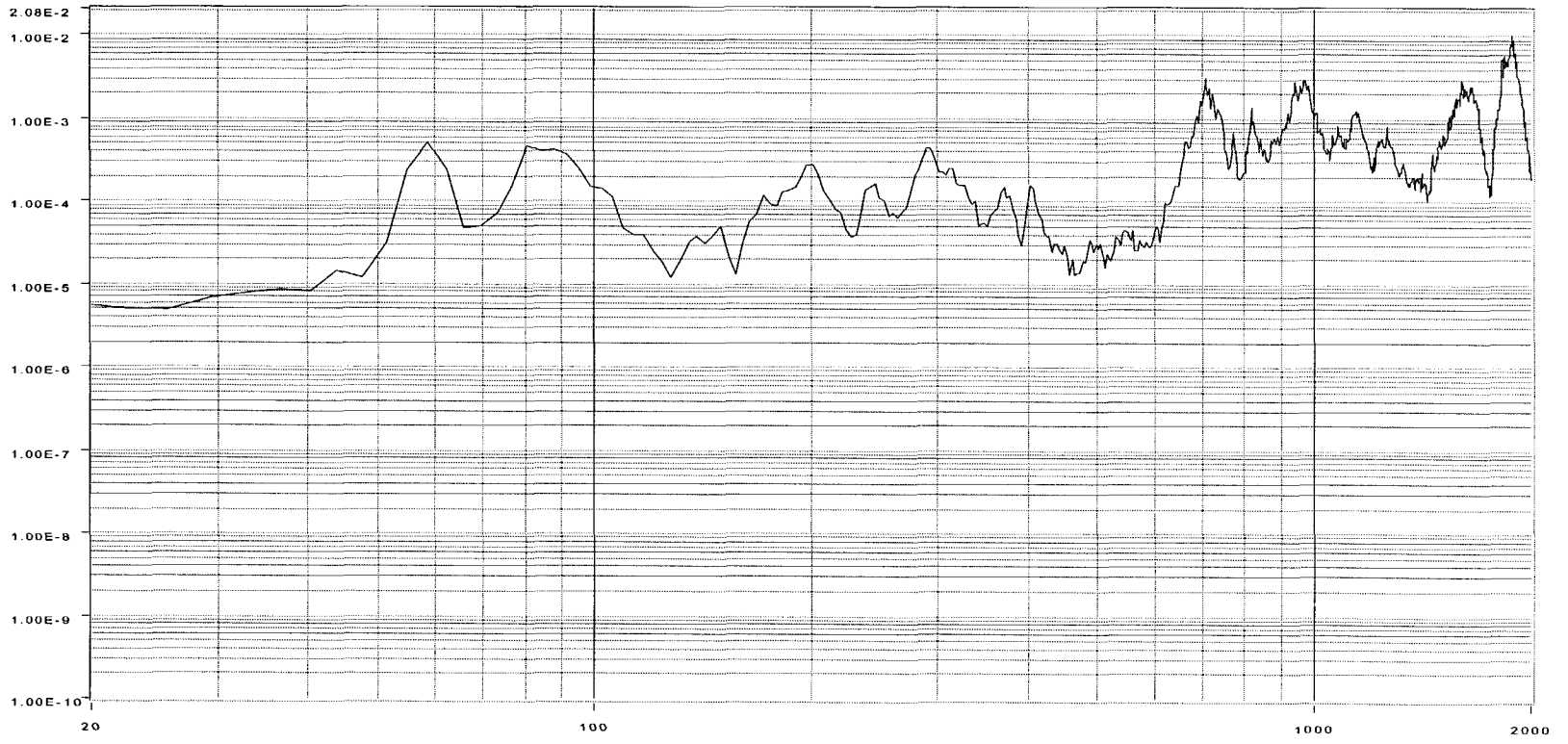
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 35.00

RMS= 1.298E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

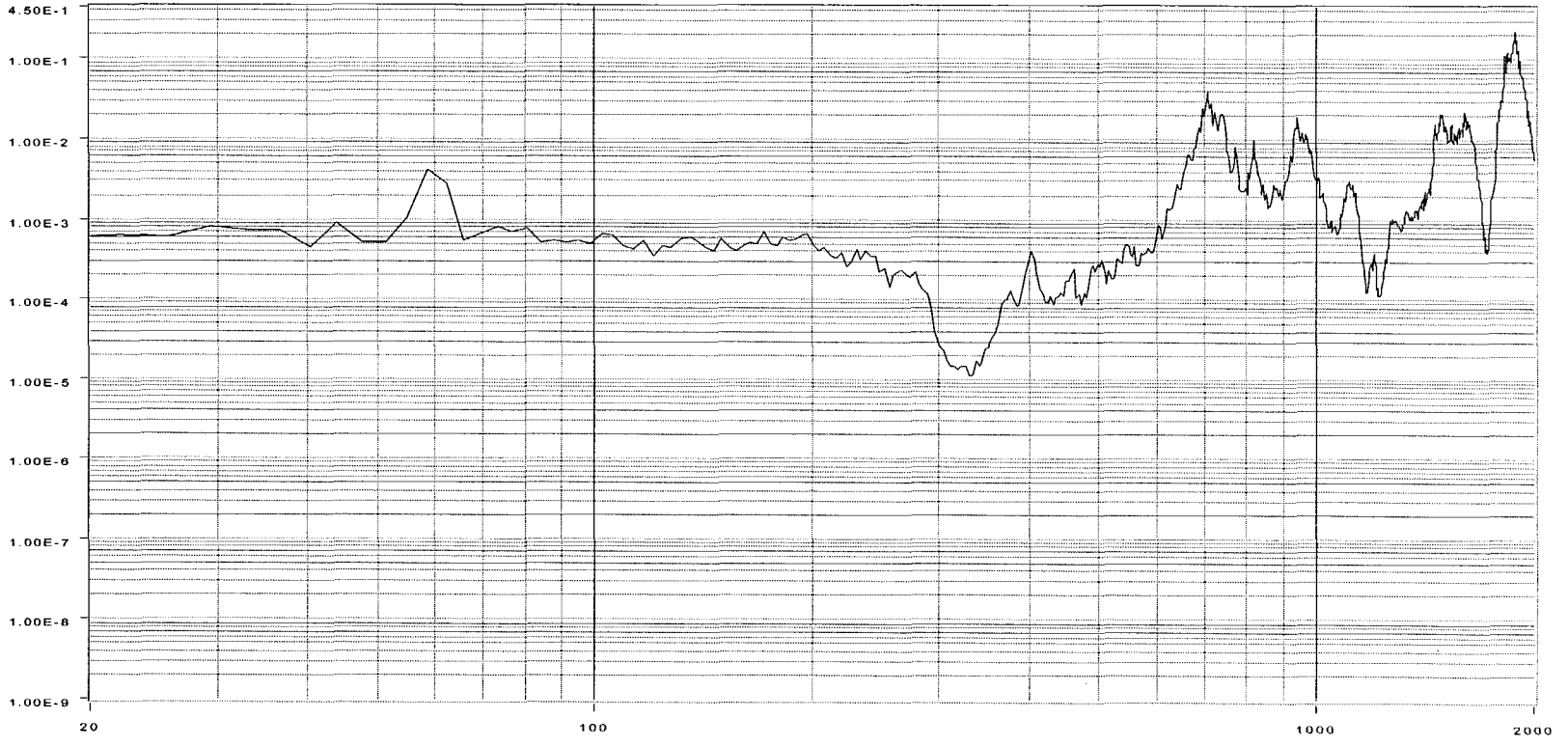
Channel #: 22 Node Number: 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 35.00

RMS= 4.692E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

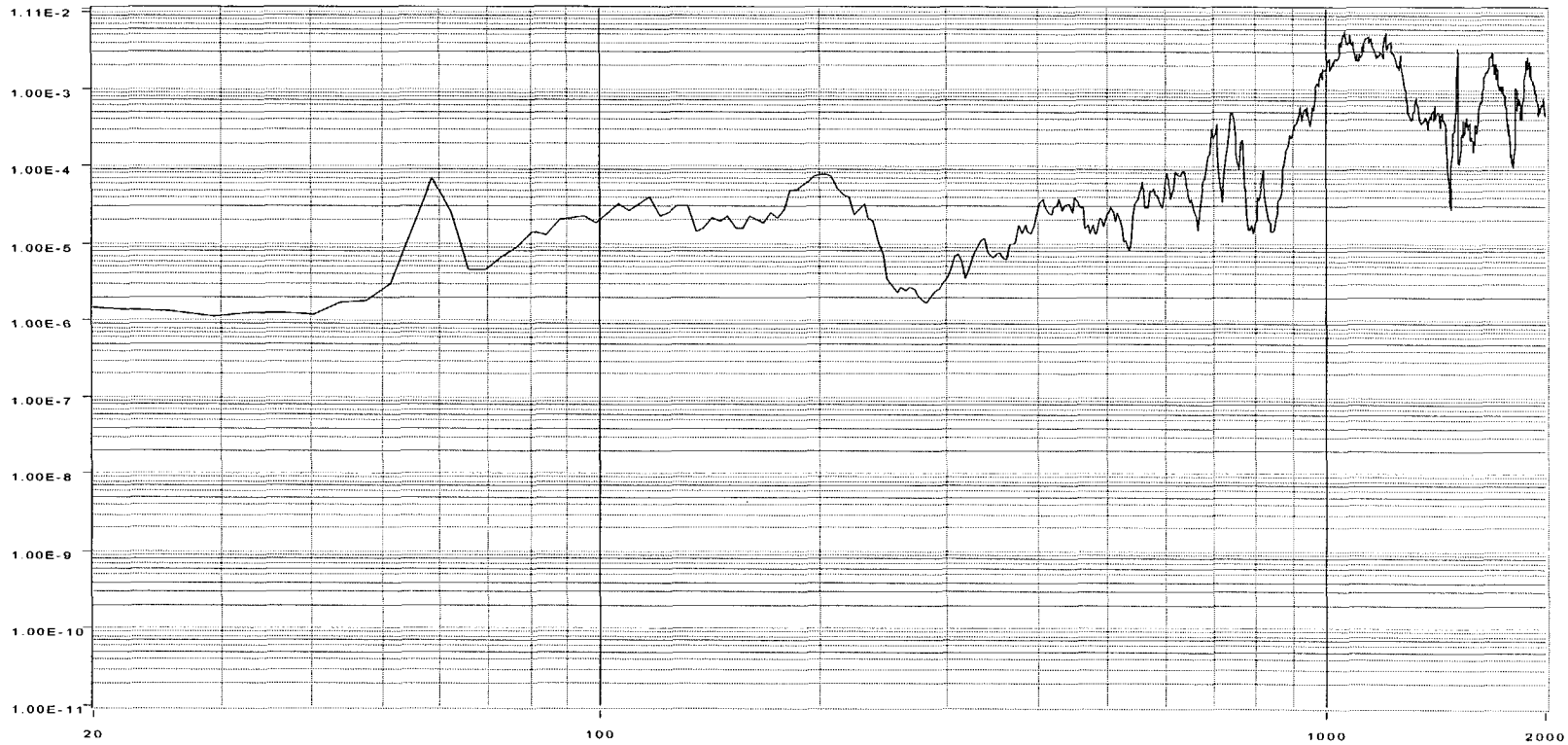
Channel #: 23 Node Number: 0023

Channel Label: A9 X

Channel Description:

Start Time: 35.00

RMS= 1.250E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

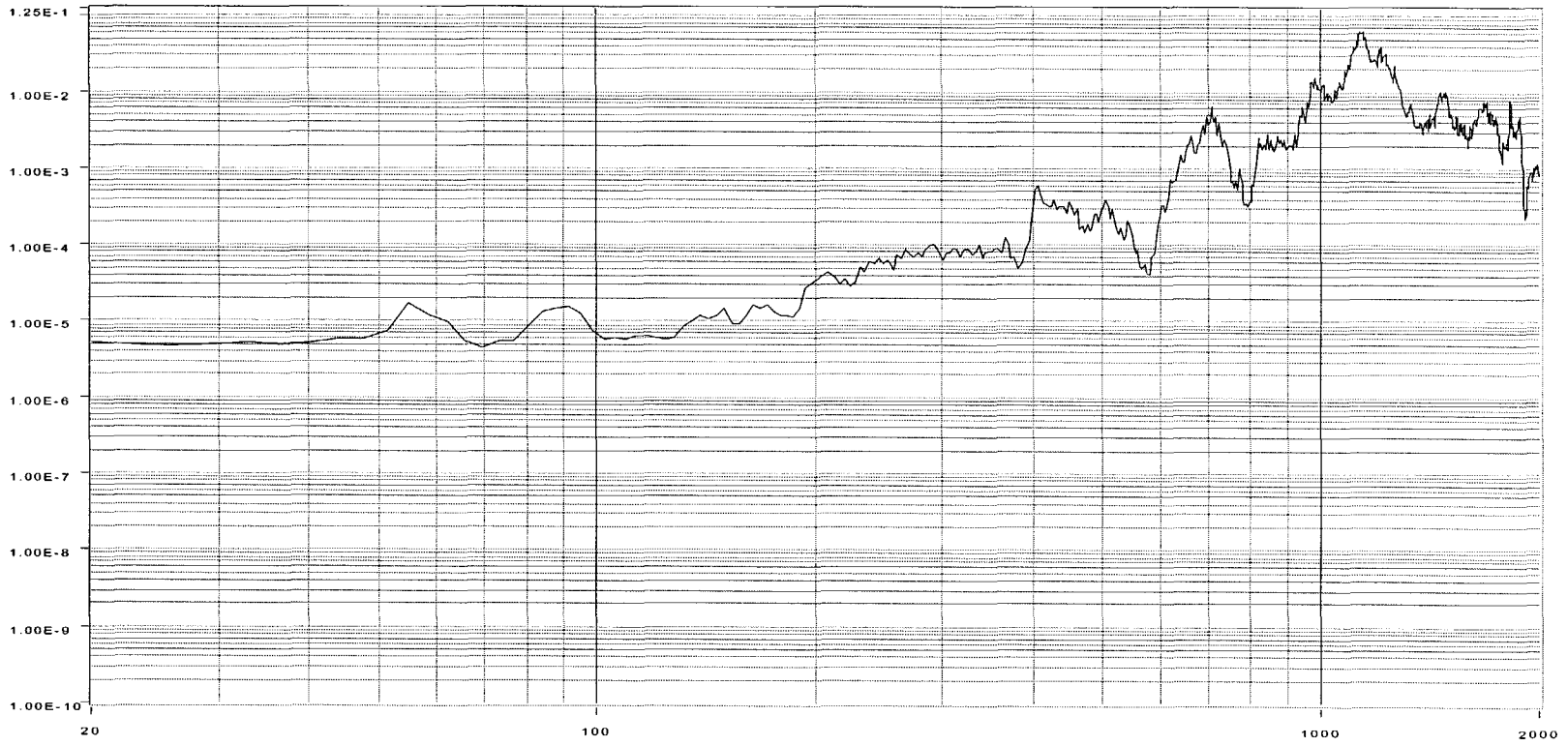
Channel #: 24 Node Number: 0024

Channel Label: A9 Y

Channel Description:

Start Time: 35.00

RMS= 3.359E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

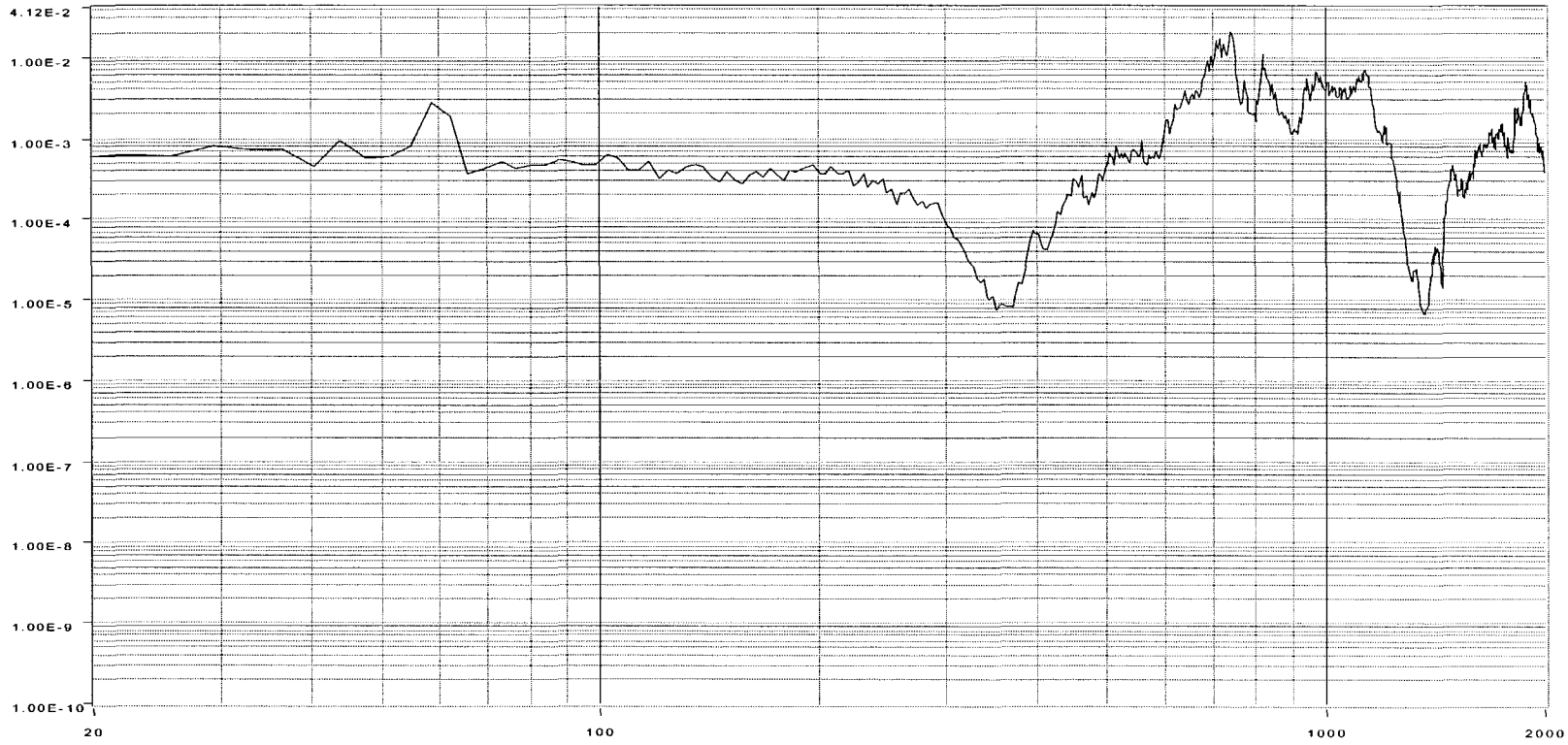
Channel #: 25 Node Number: 0025

Channel Label: A9 Z

Channel Description:

Start Time: 35.00

RMS= 1.896E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

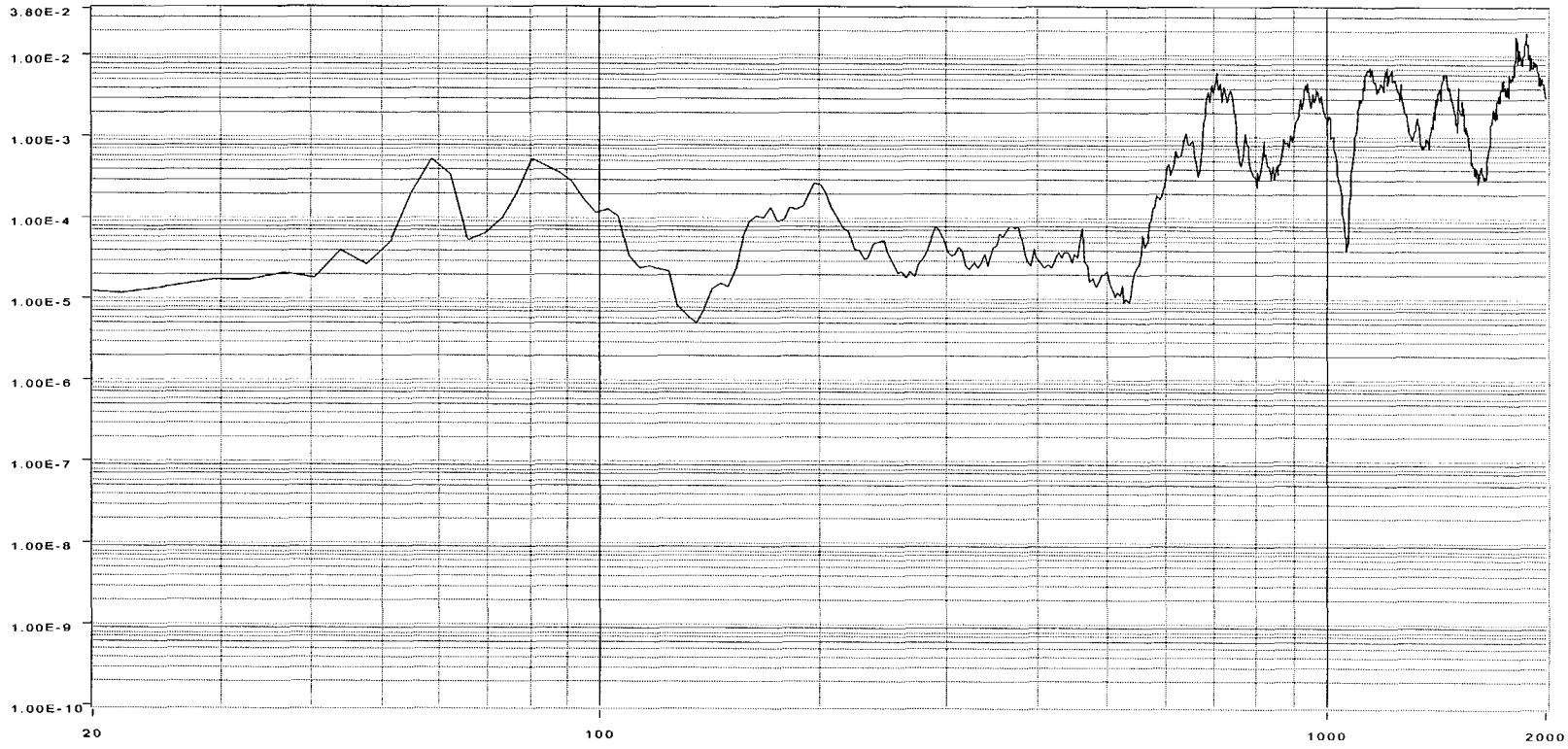
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 35.00

RMS= 2.098E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

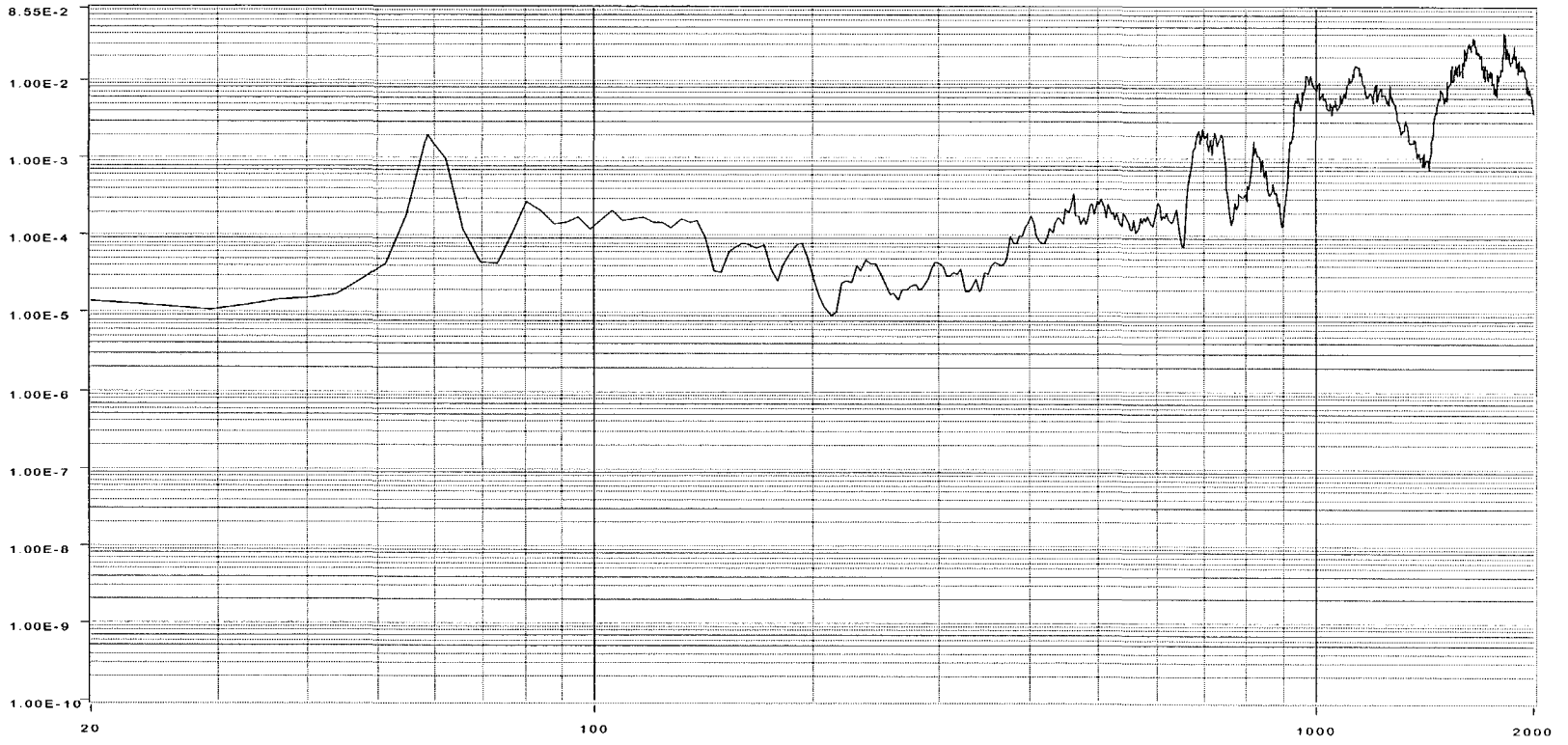
Channel #: 27 Node Number: 0027

Channel Label: A10 Y

Channel Description:

Start Time: 35.00

RMS= 3.391E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

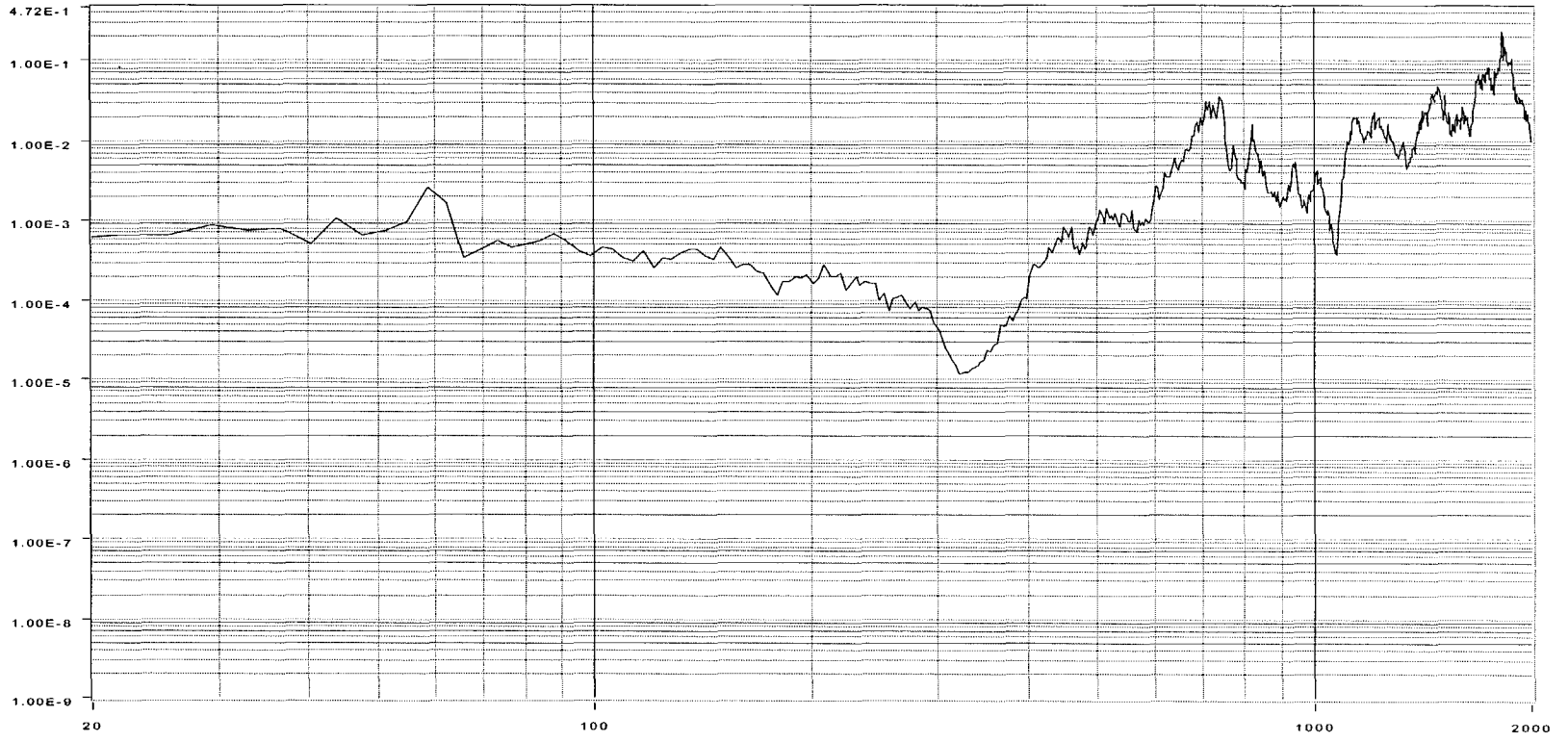
Channel #: 28 Node Number: 0028

Channel Label: A10 Z

Channel Description:

Start Time: 35.00

RMS= 5.869E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

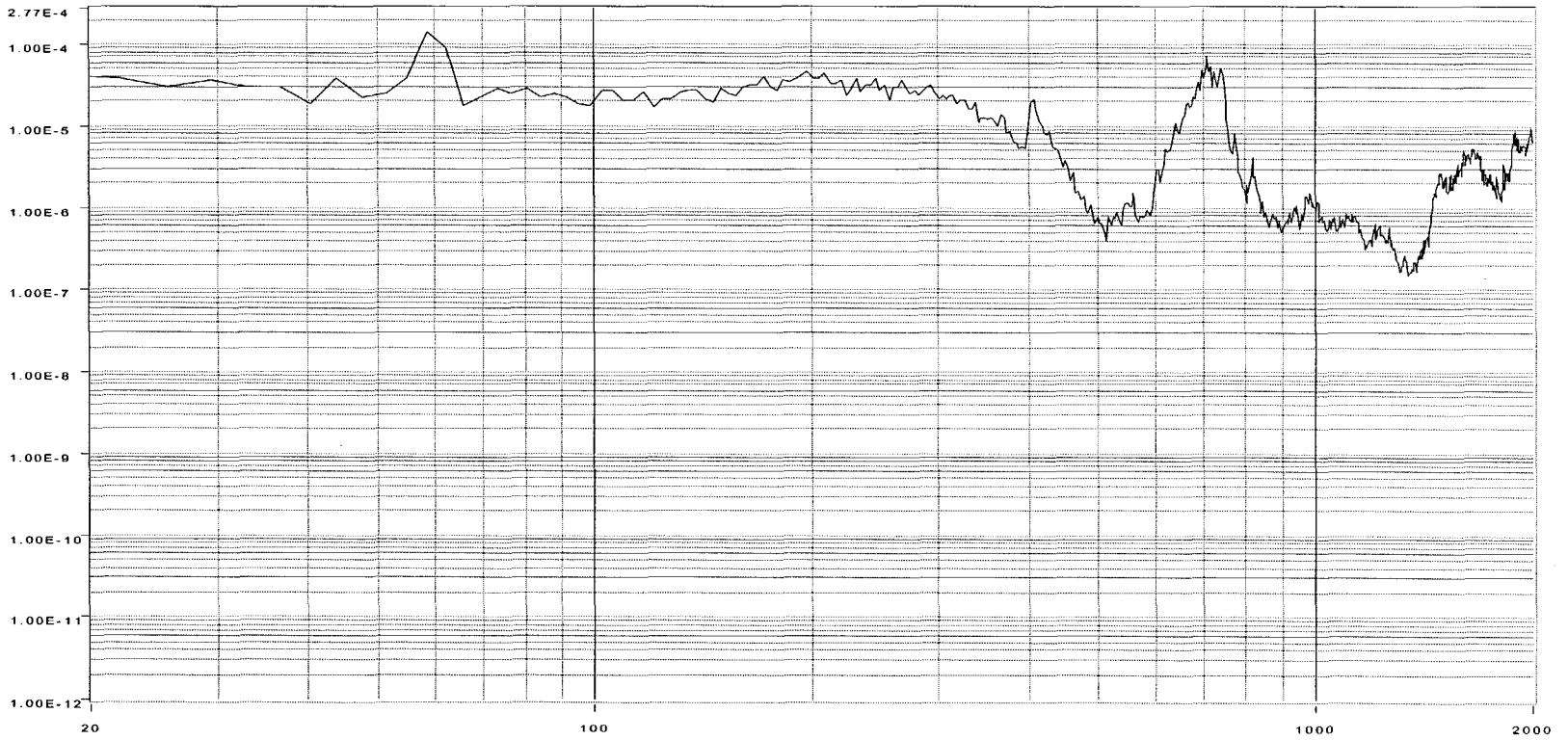
Channel #: 31 Node Number: 0031

Channel Label: DRIVE

Channel Description:

Start Time: 35.00

RMS= 1.307E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

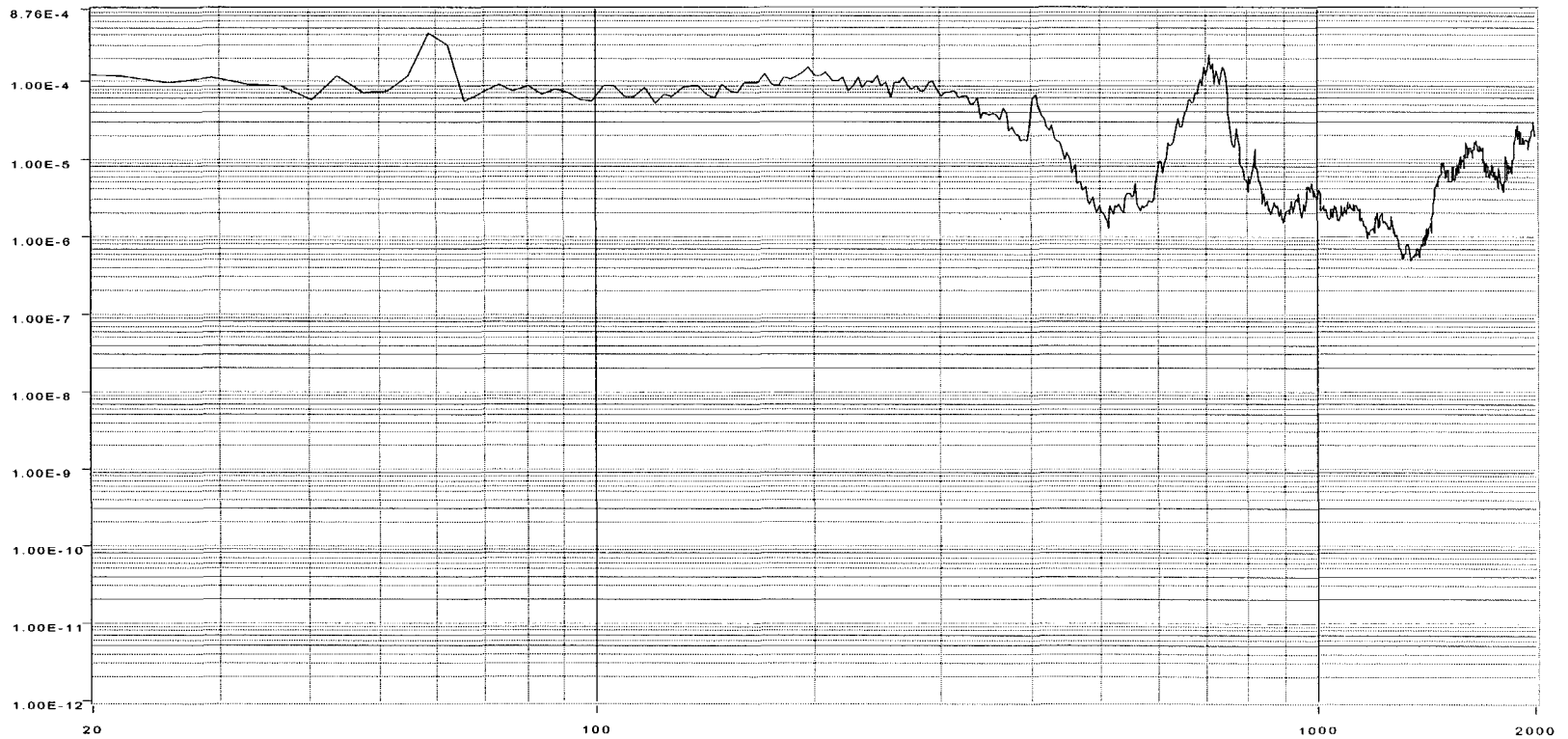
Channel #: 32 Node Number: 0032

Channel Label: COLA

Channel Description:

Start Time: 35.00

RMS= 2.317E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

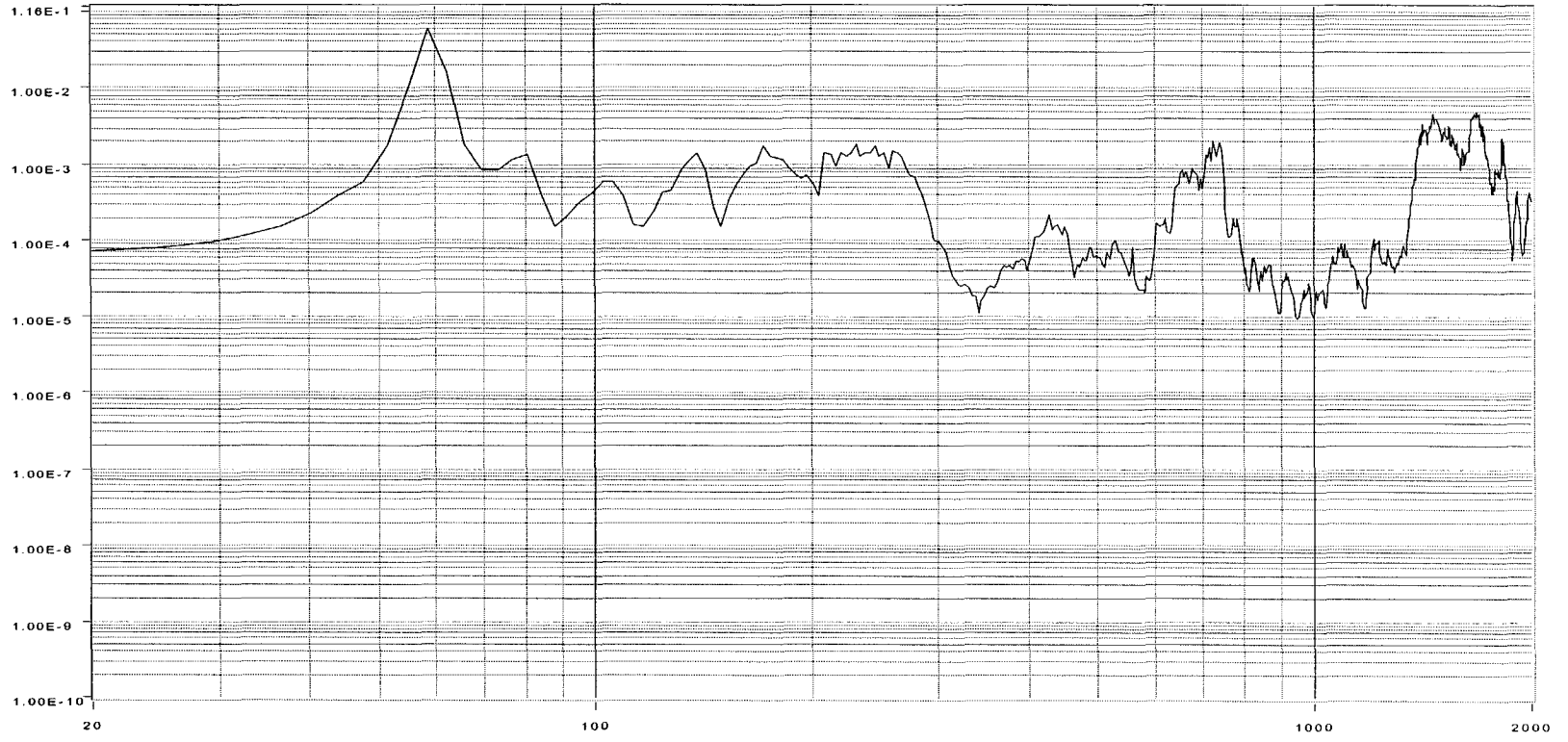
Channel #: 33 Node Number: 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 35.00

RMS= 1.320E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

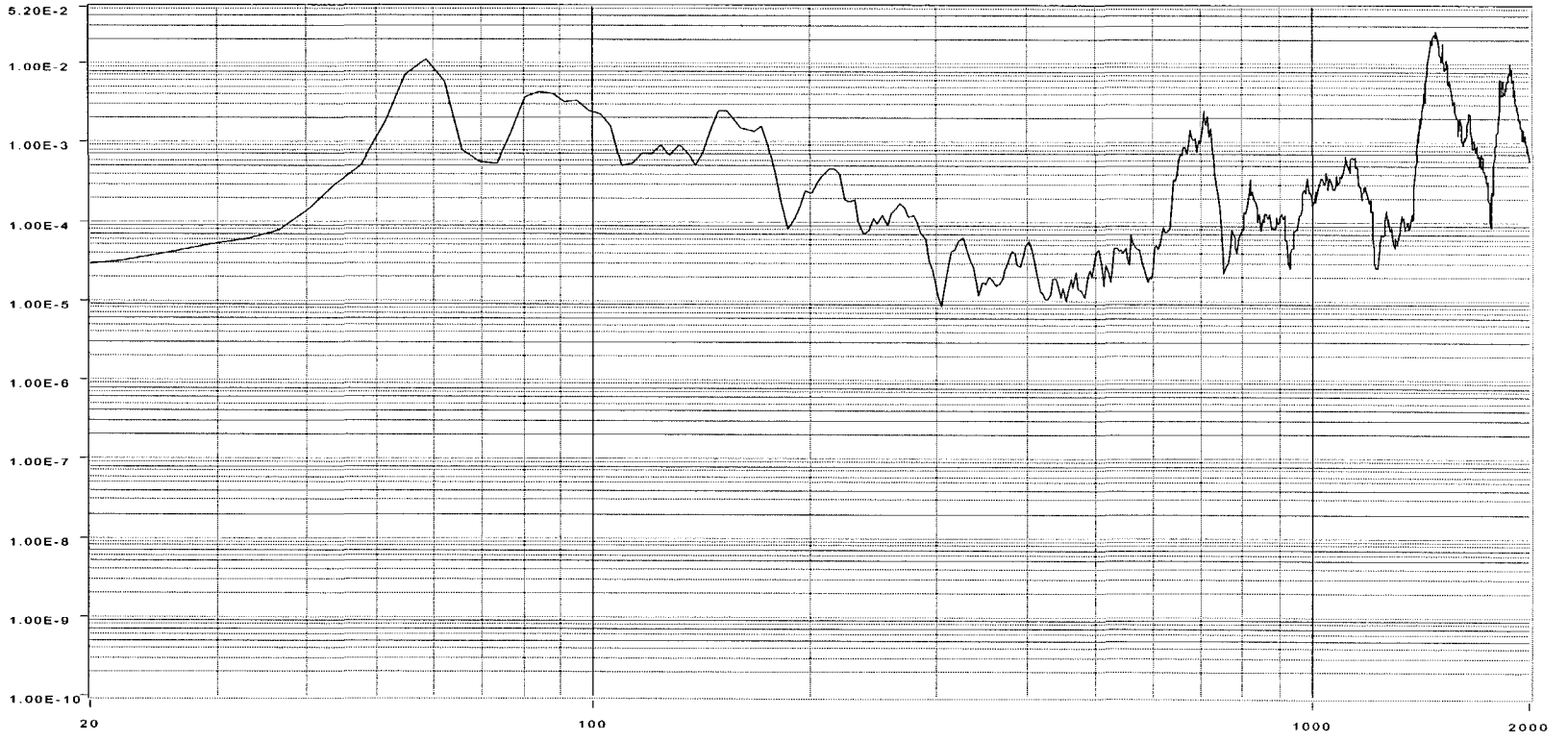
Channel #: 34 Node Number: 0034

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 35.00

RMS= 1.827E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

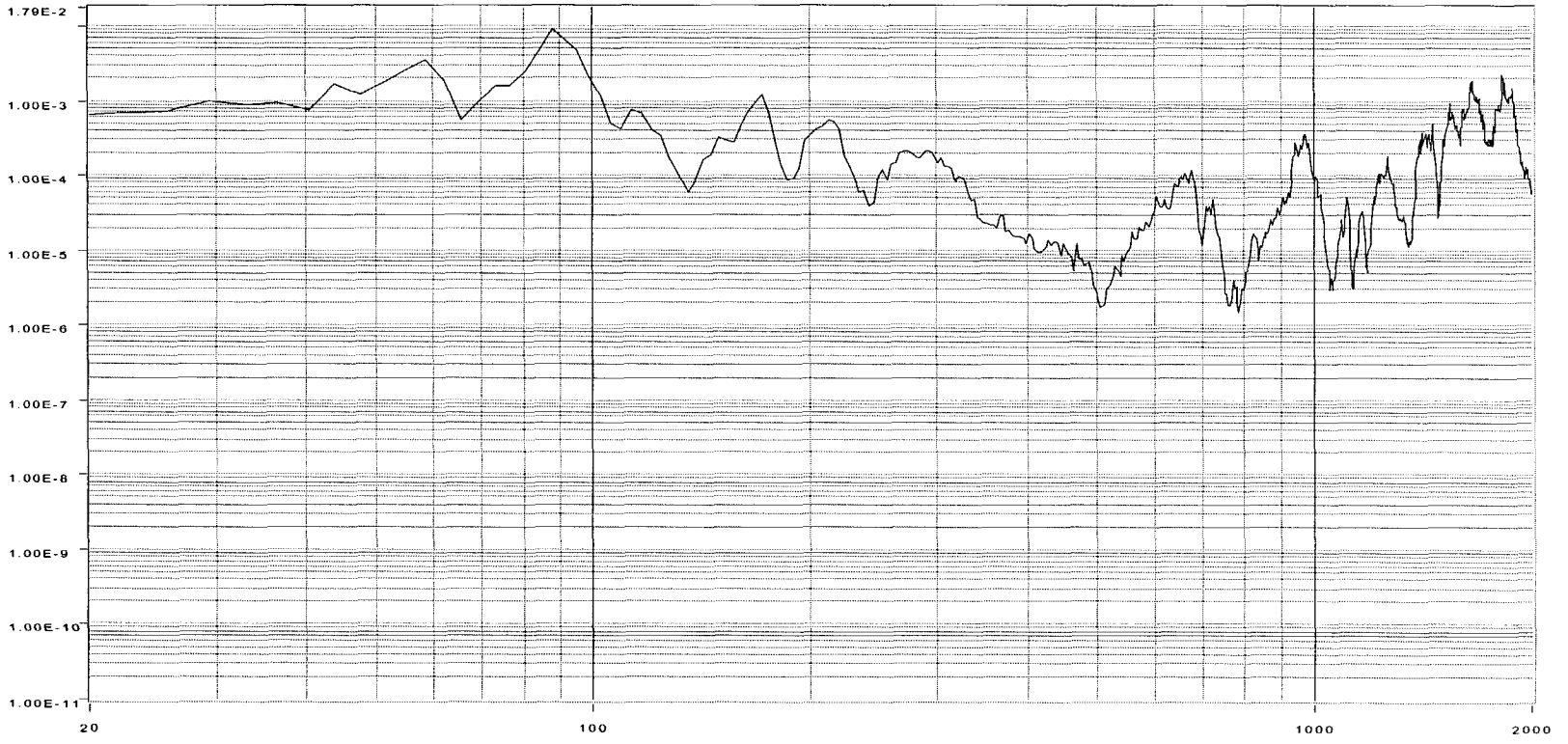
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 35.00

RMS= 8.065E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

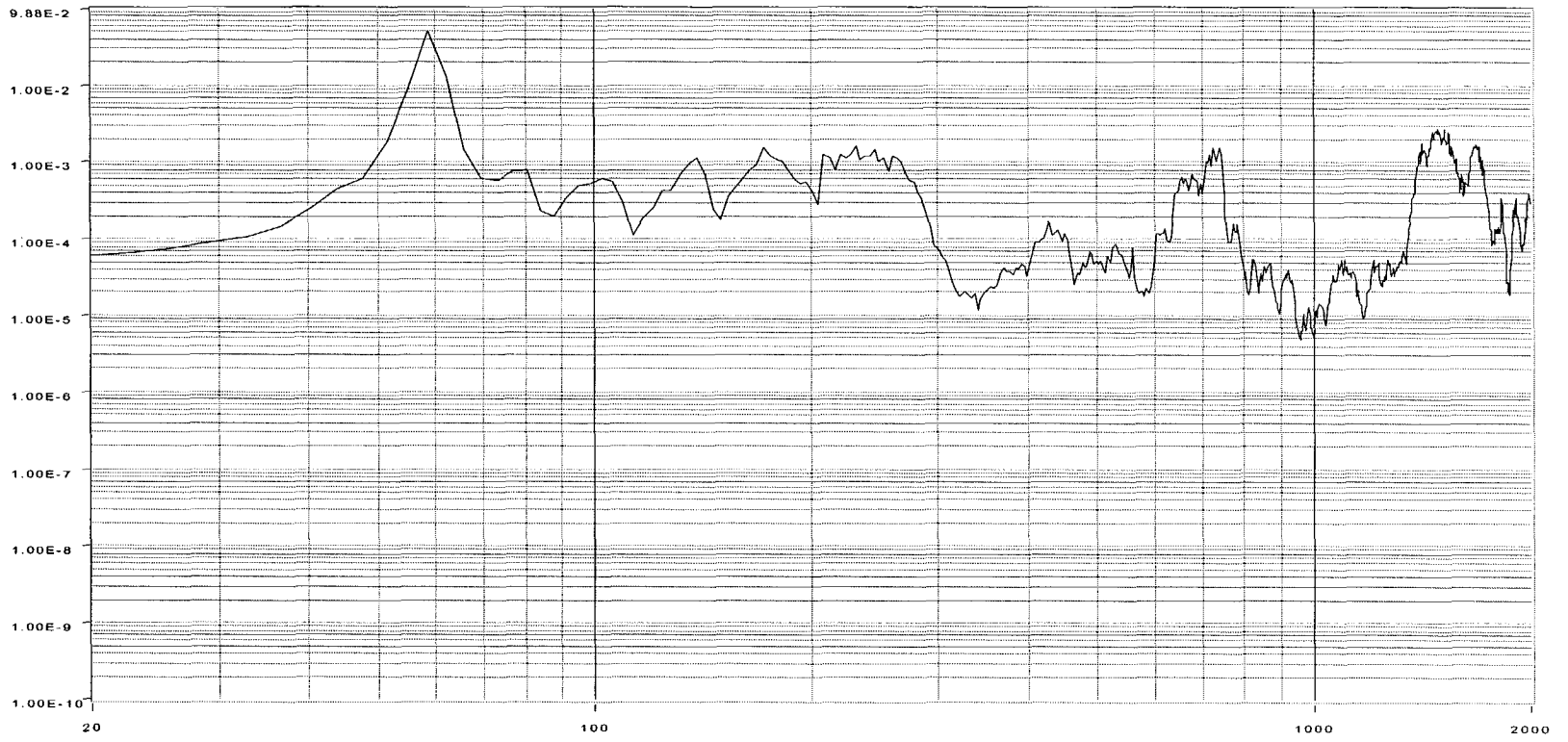
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 35.00

RMS= 1.043E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

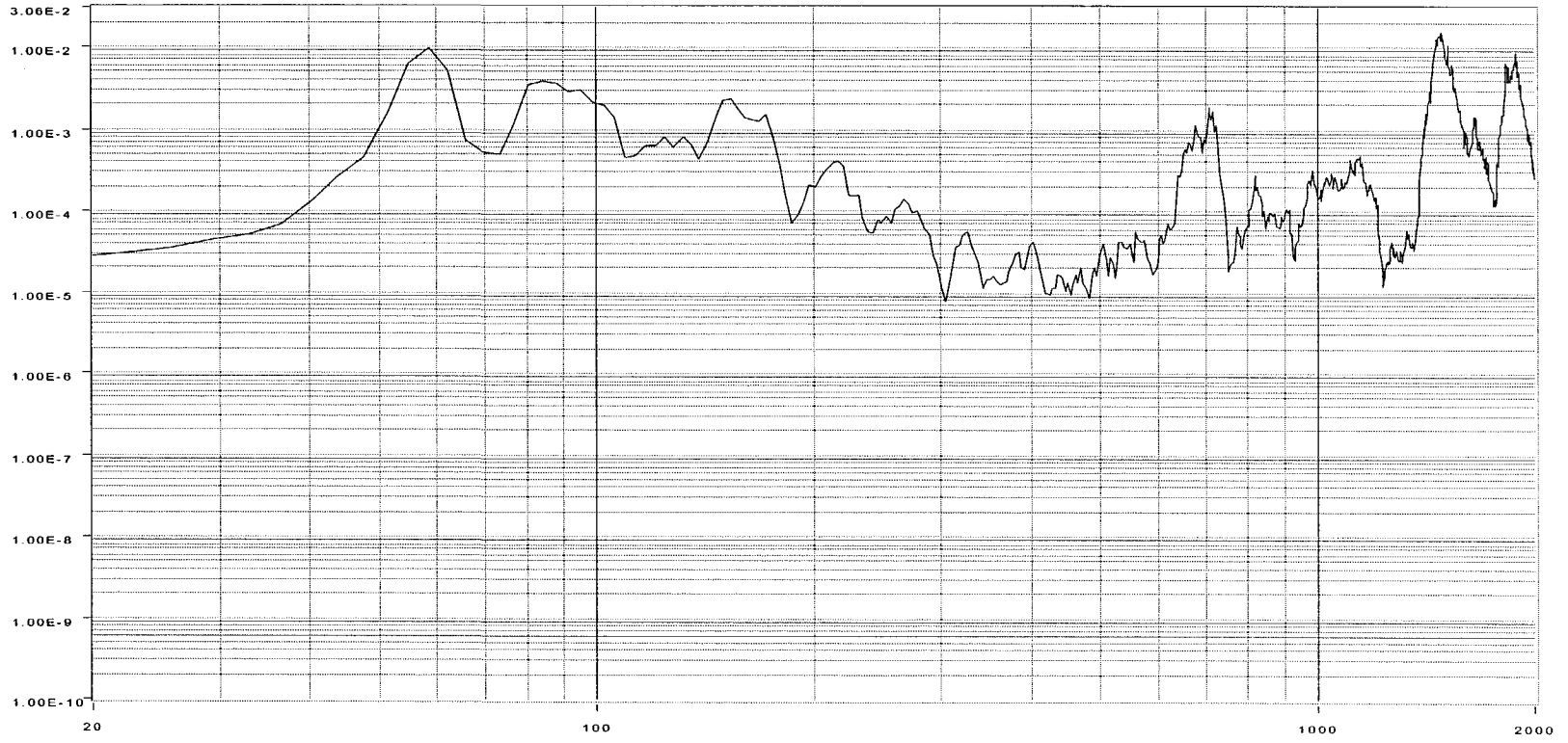
Channel #: 37 Node Number: 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 35.00

RMS= 1.519E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

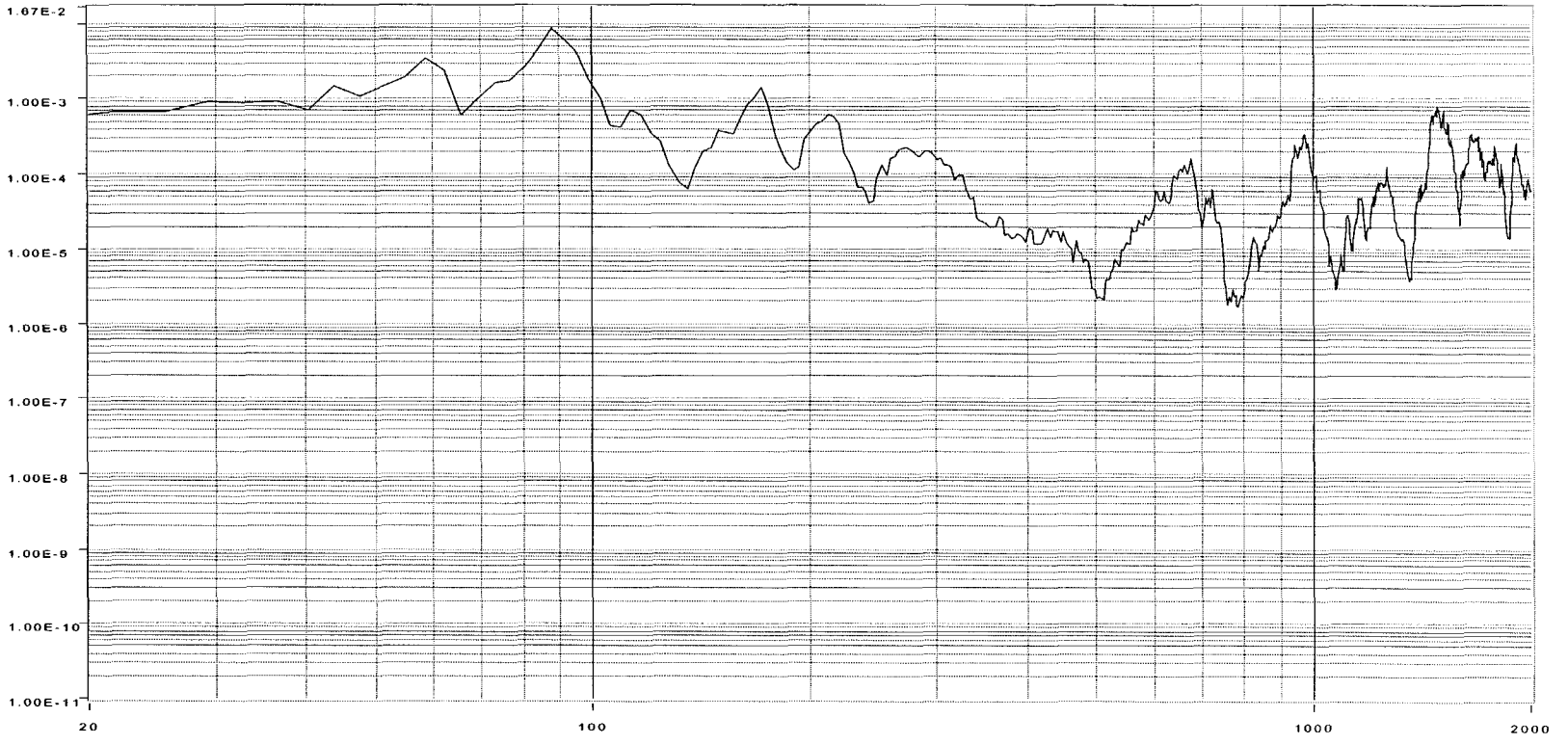
Channel #: 38 Node Number: 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 35.00

RMS= 6.377E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/23/02 7:16 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

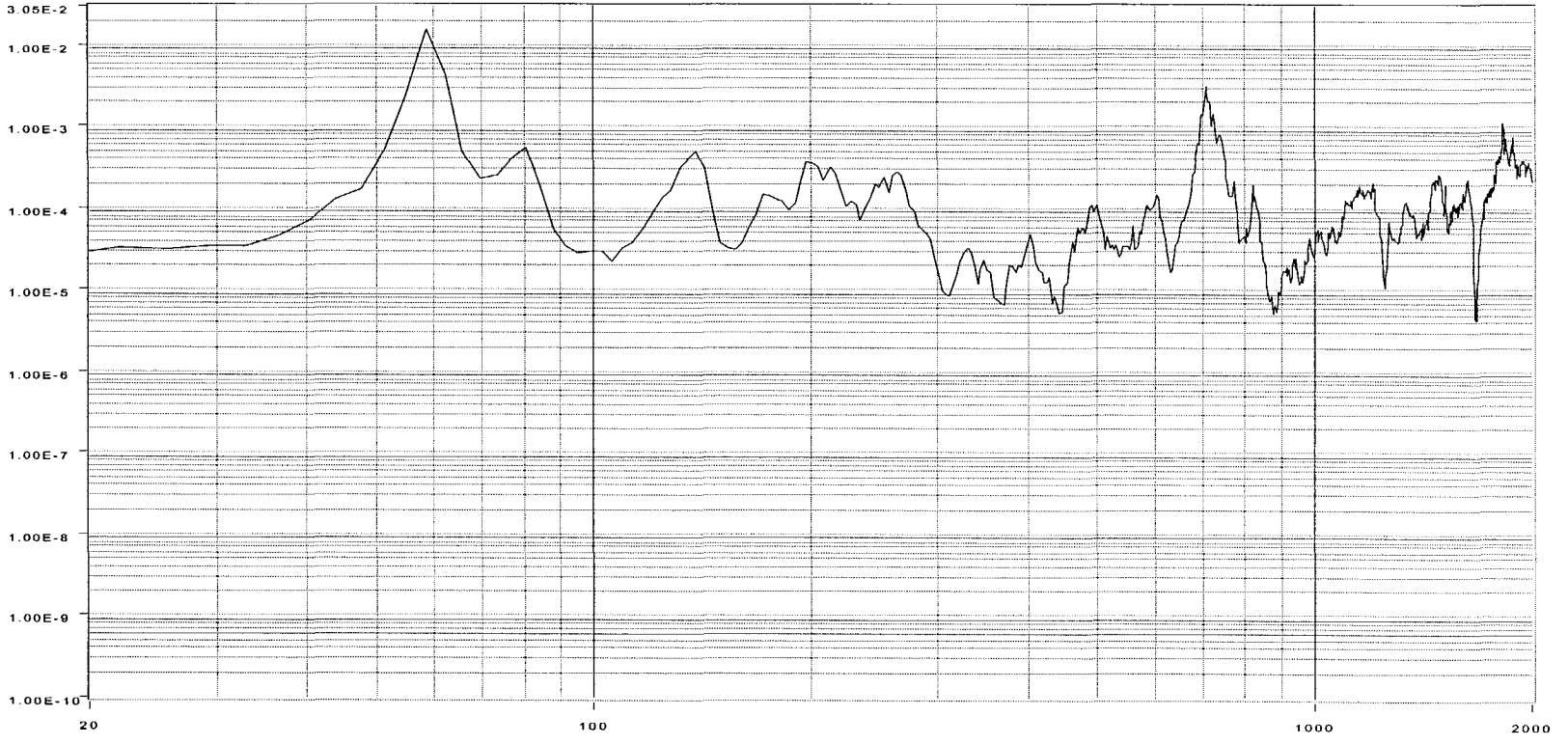
Channel #: 39 Node Number: 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 35.00

RMS= 6.412E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

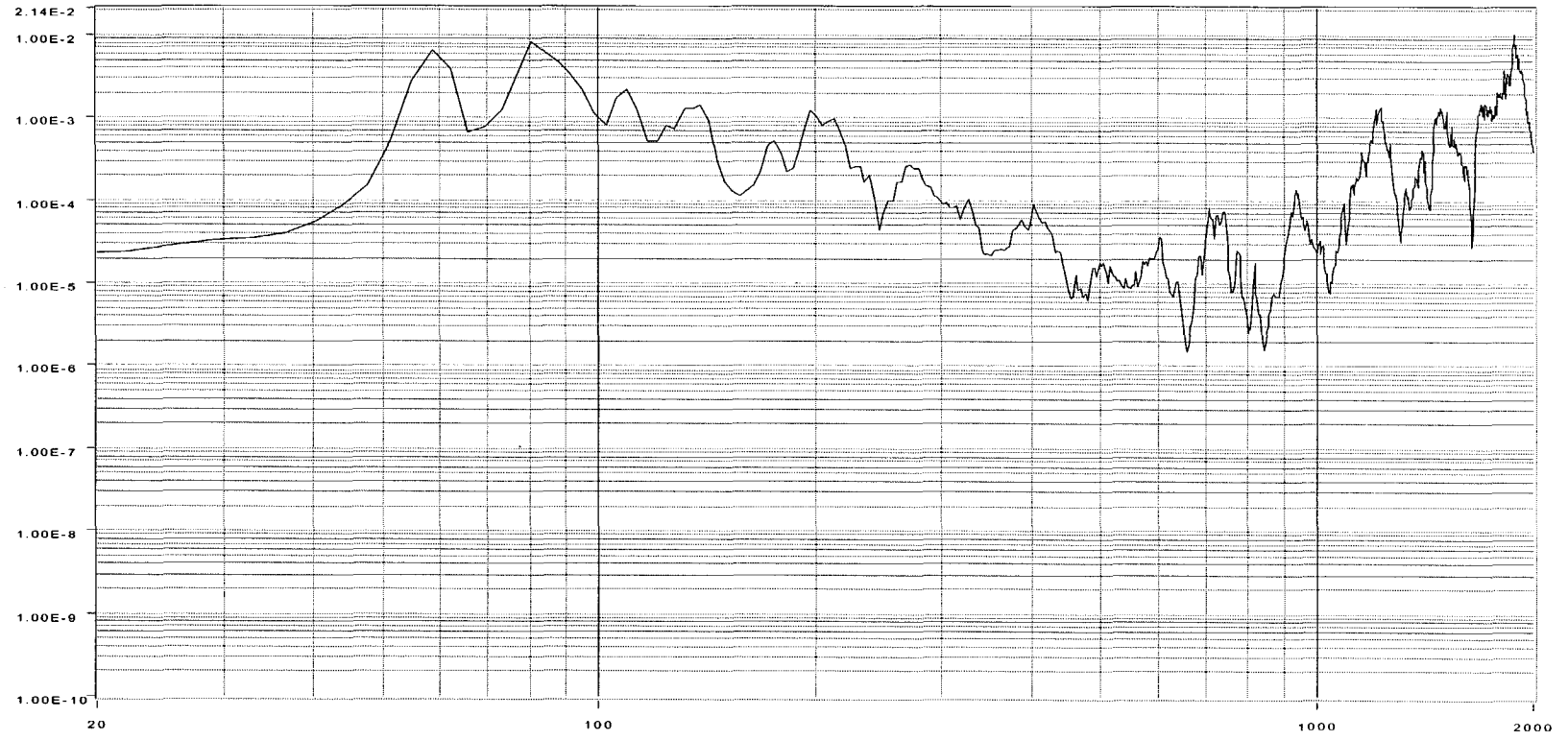
Channel #: 40 Node Number: 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 35.00

RMS= 1.156E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

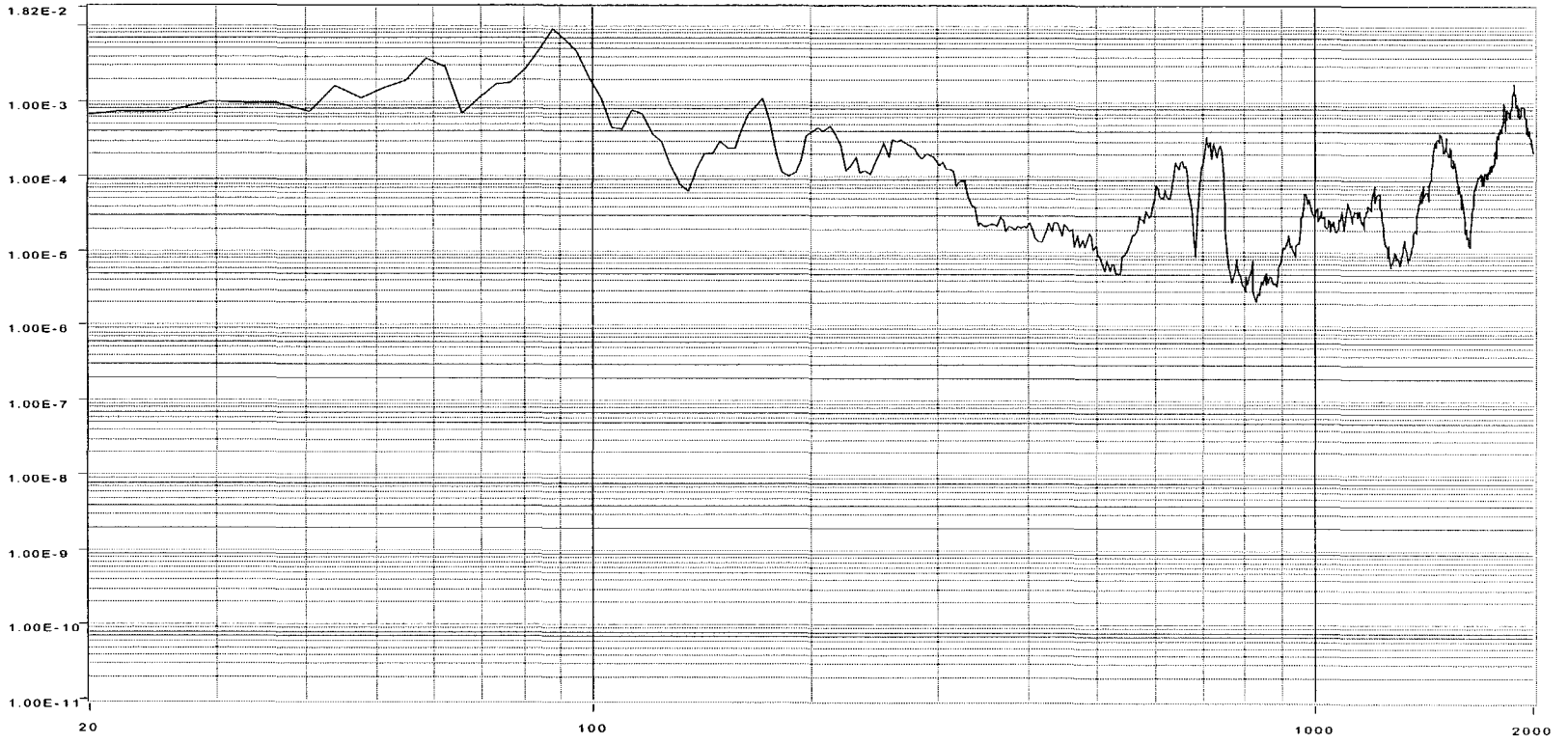
Channel #: 41 Node Number: 0041

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 35.00

RMS= 7.041E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

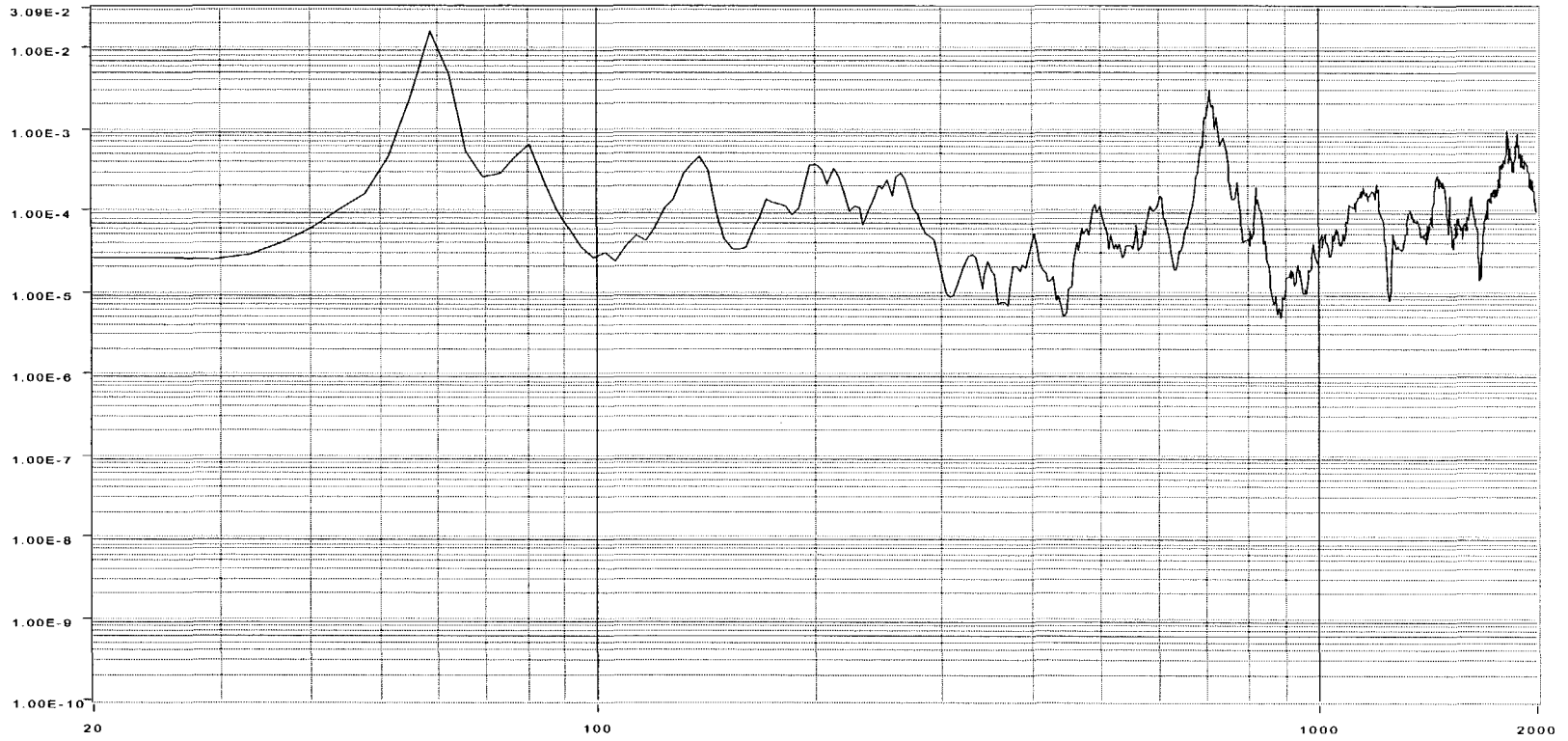
Channel #: 42 Node Number: 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 35.00

RMS= 6.273E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

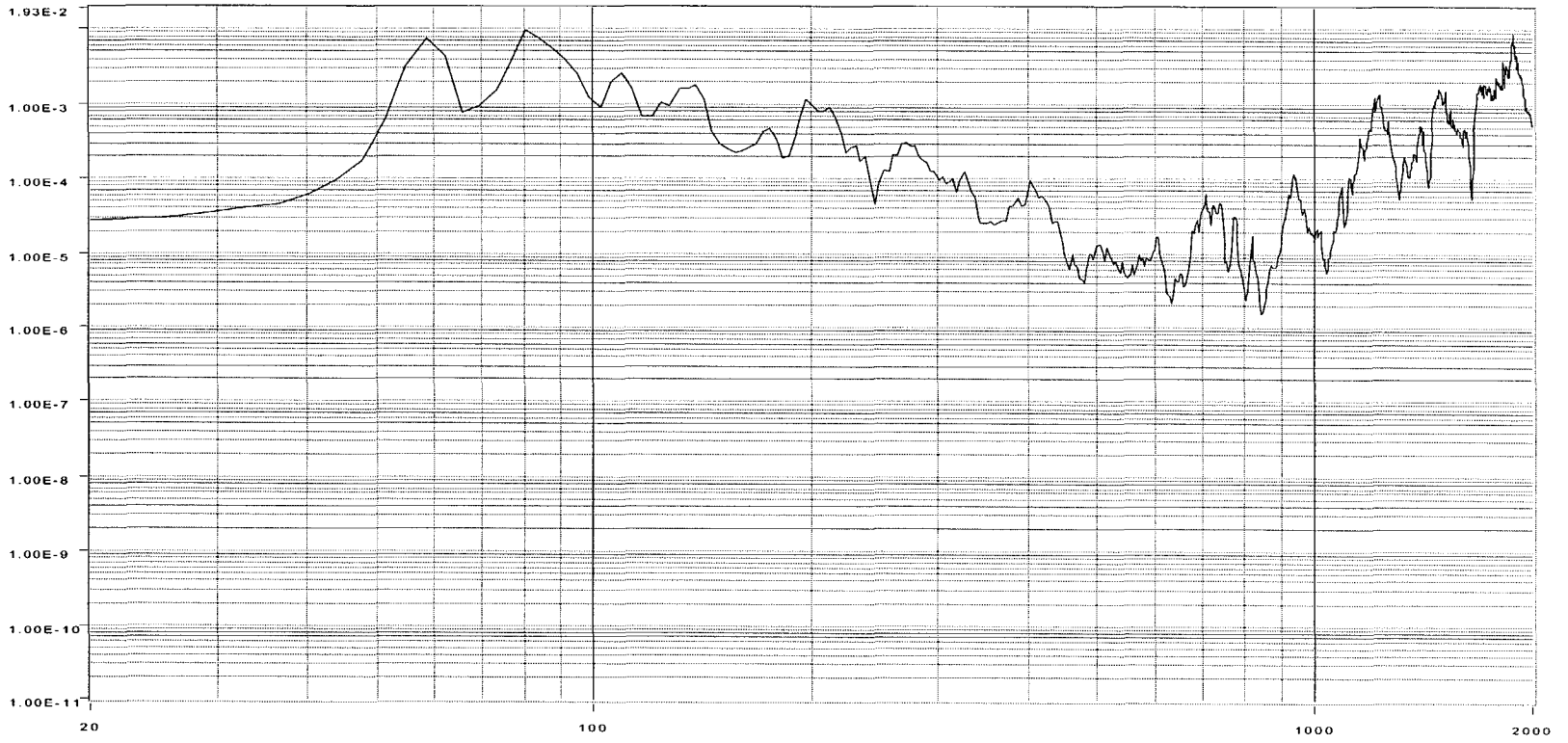
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 35.00

RMS= 1.150E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

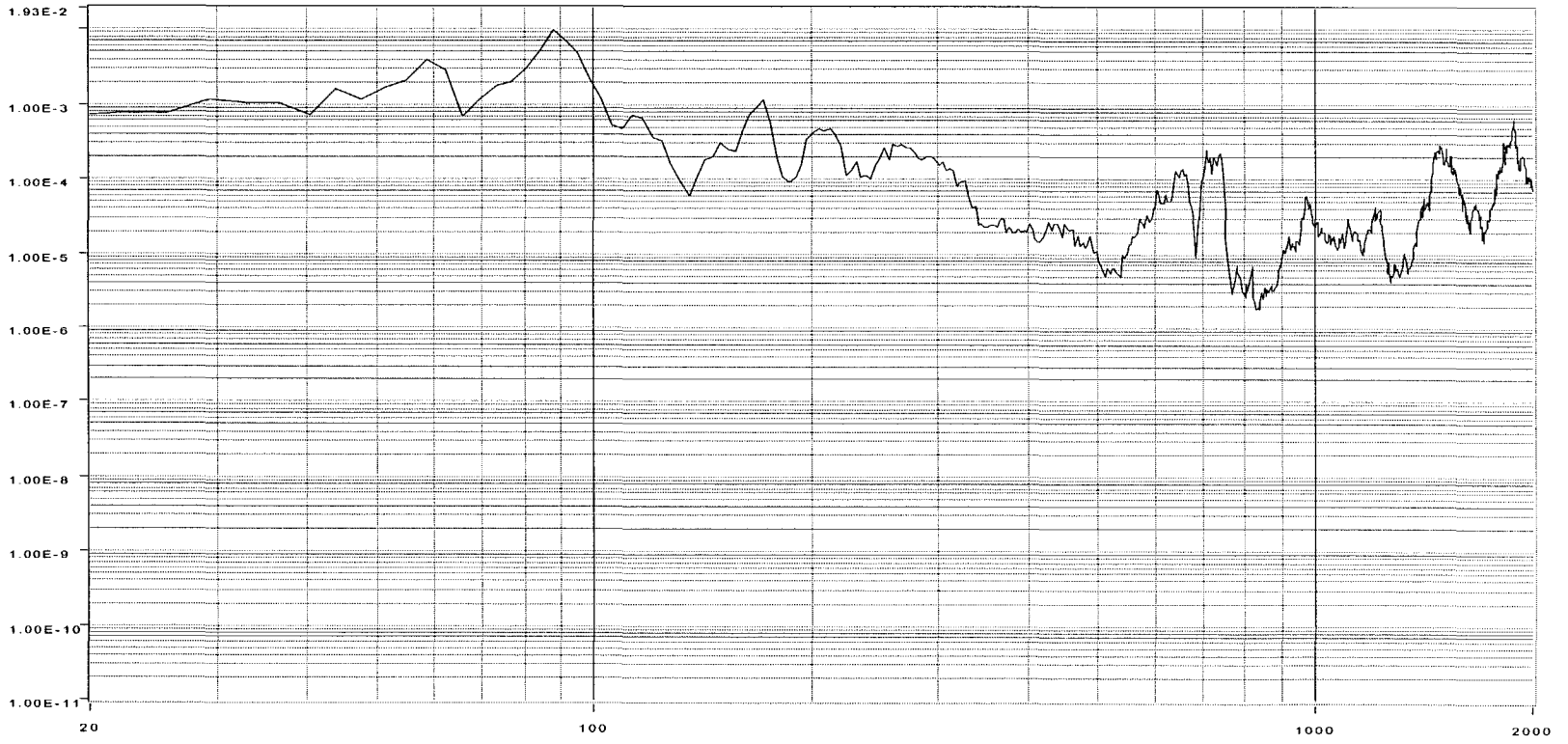
Channel #: 44 Node Number: 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 35.00

RMS= 6.222E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

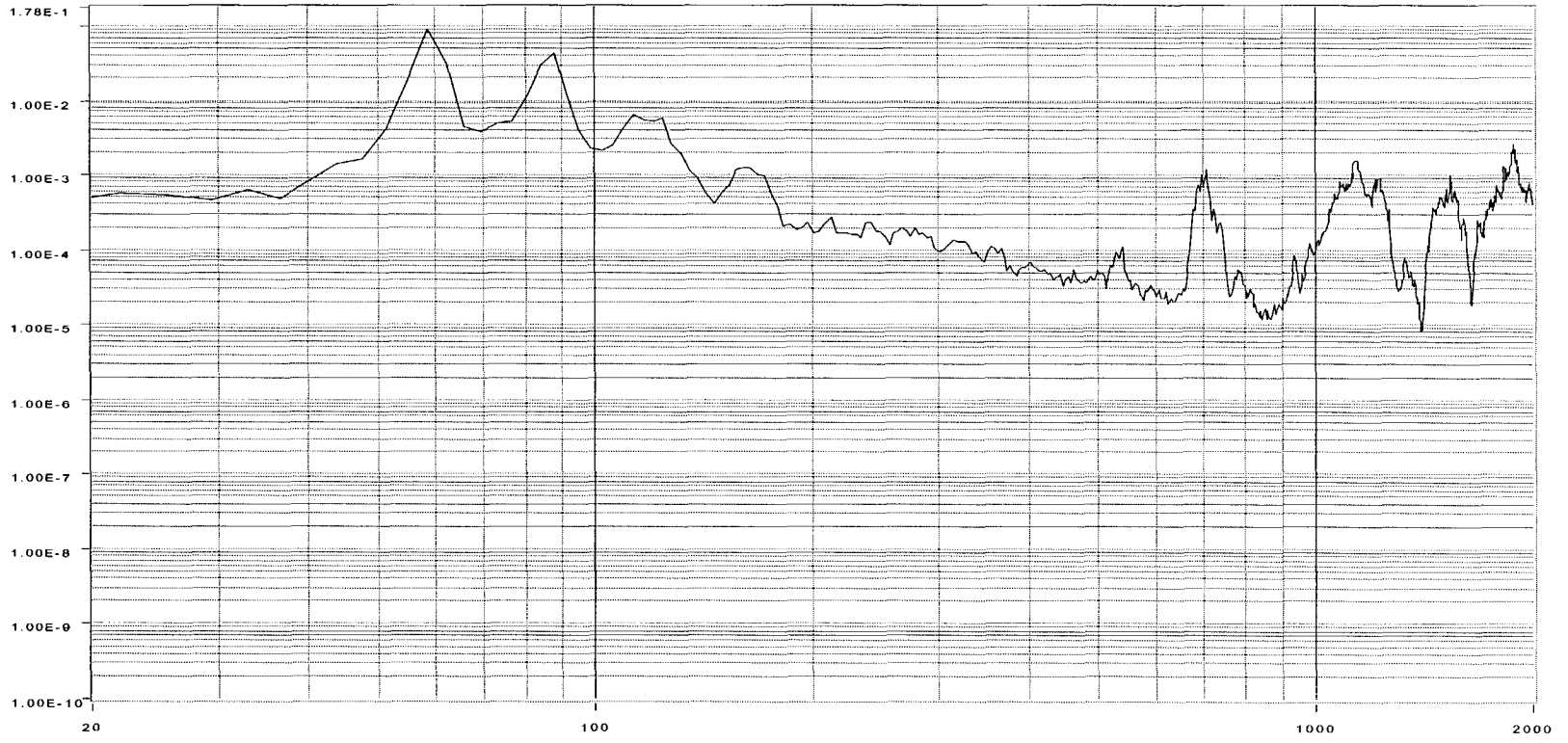
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 35.00

RMS= 1.319E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

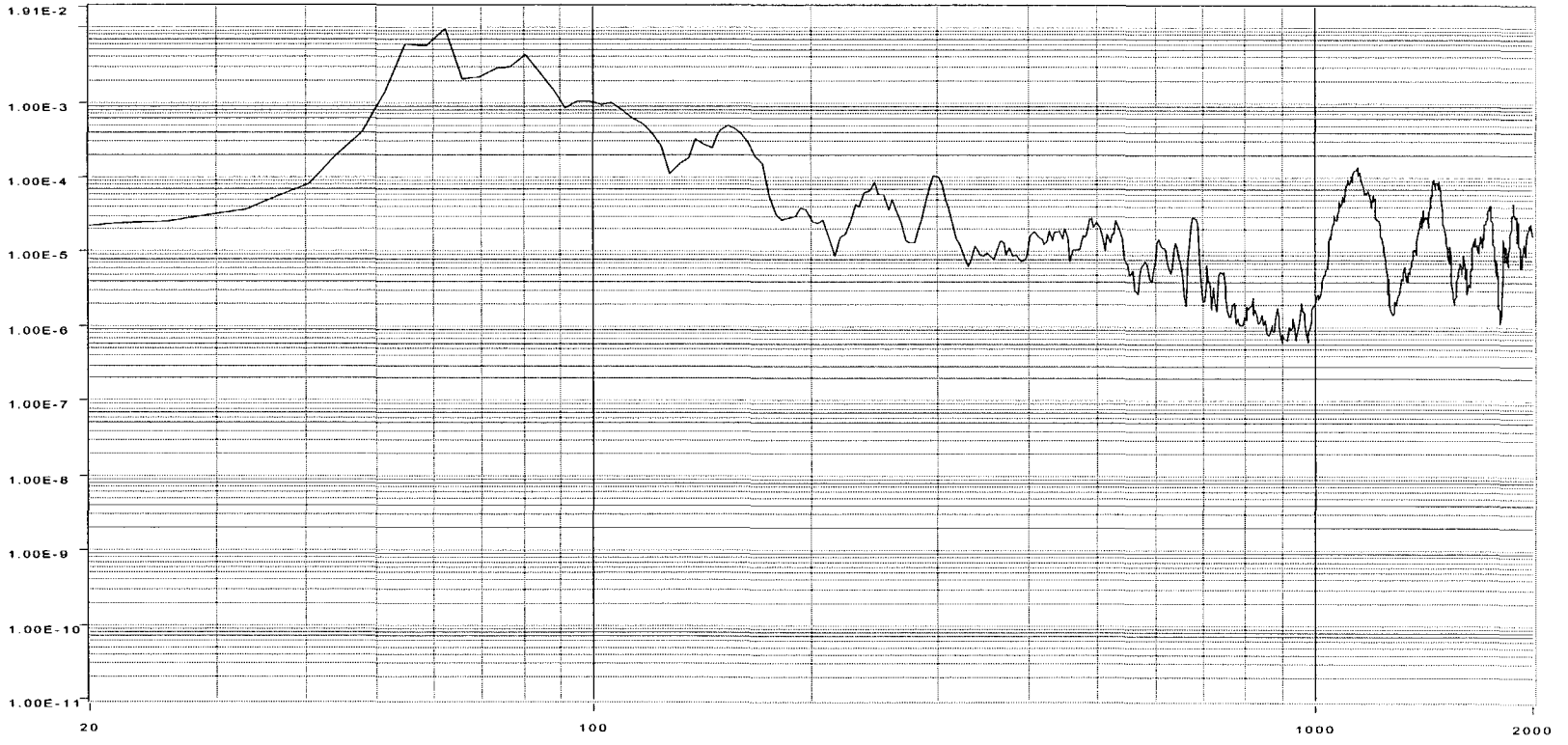
Channel #: 46 **Node Number:** 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 35.00

RMS= 4.785E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

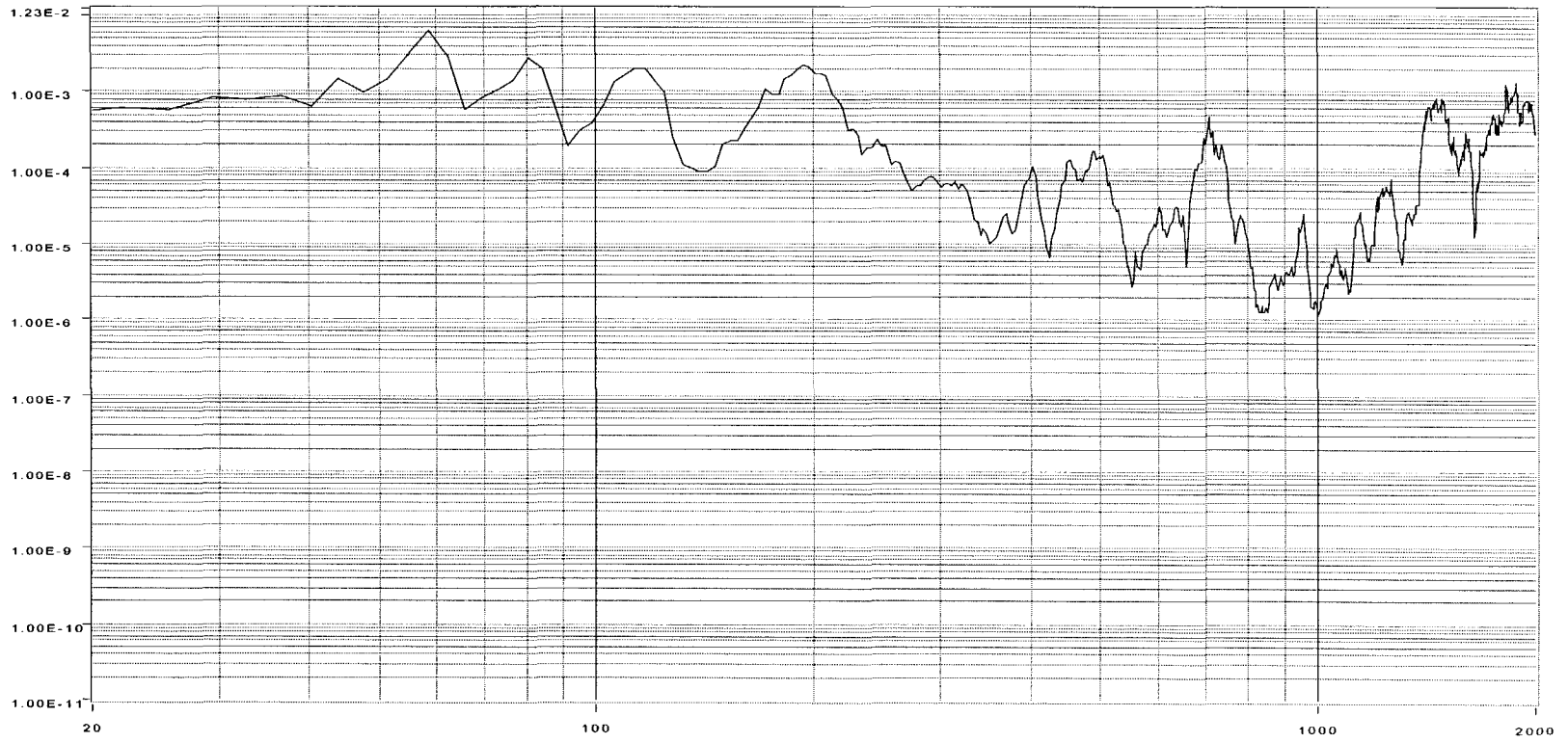
Channel #: 47 Node Number: 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 35.00

RMS= 7.404E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

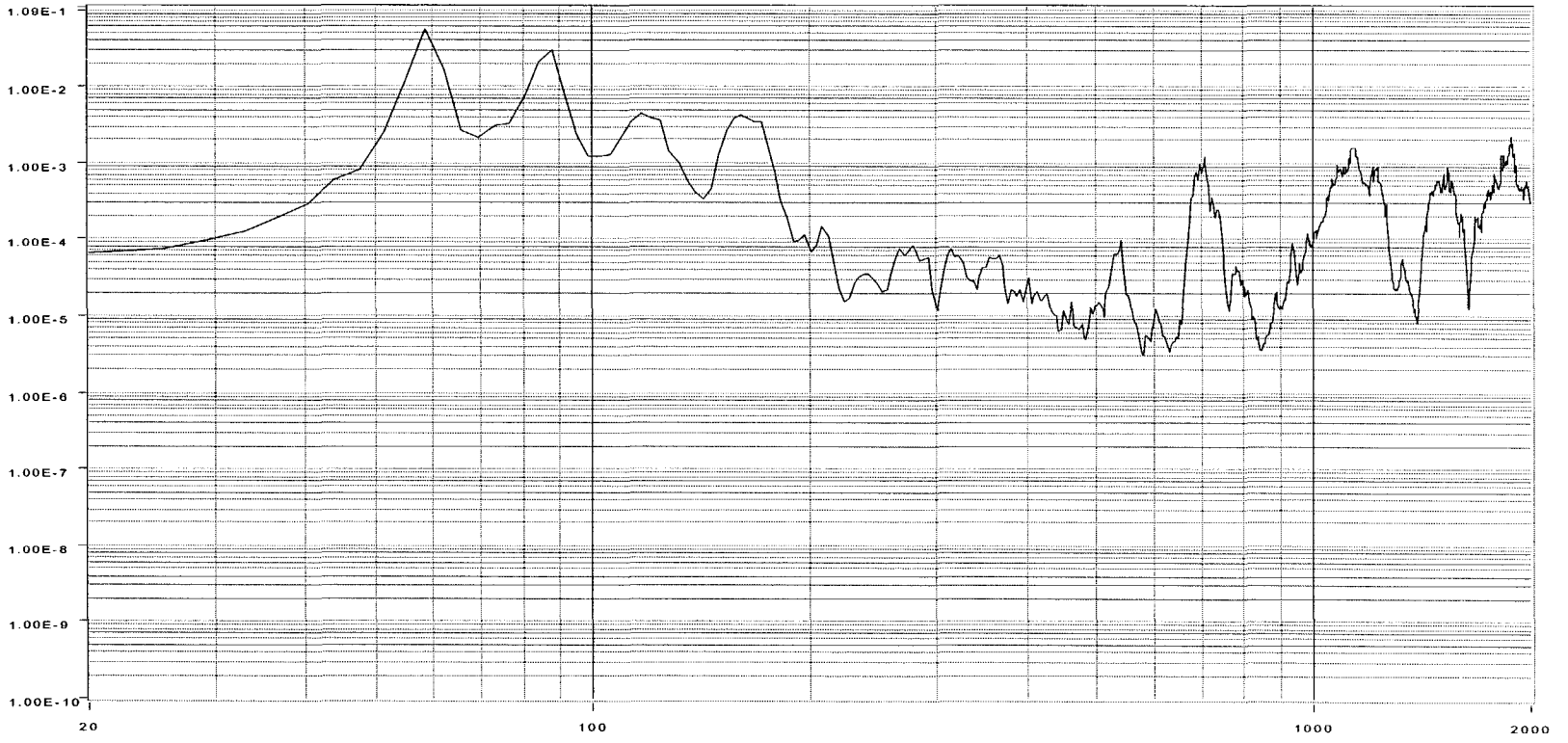
Channel #: 48 Node Number: 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 35.00

RMS= 1.153E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

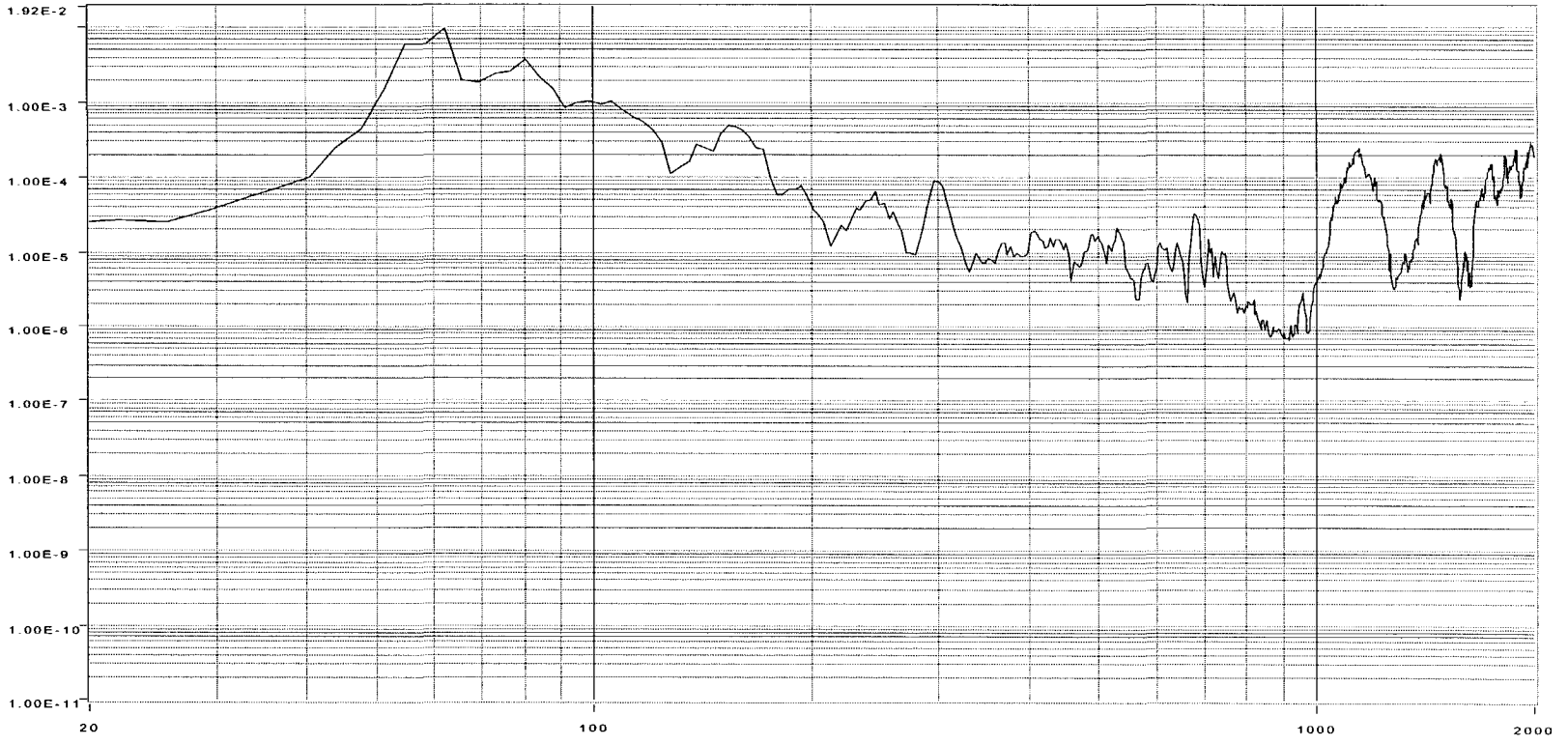
Channel #: 49 Node Number: 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 35.00

RMS= 5.275E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

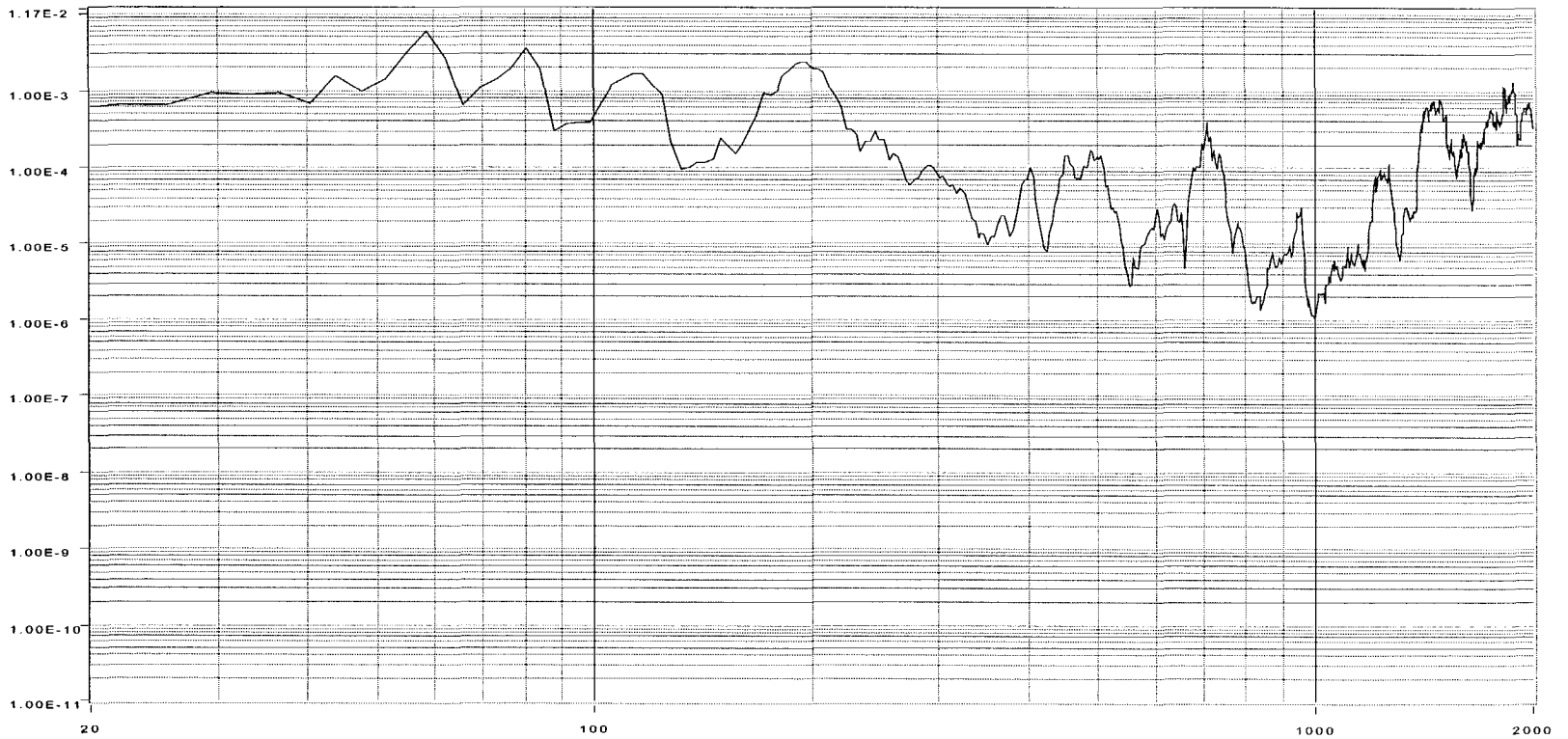
Channel #: 50 Node Number: 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 35.00

RMS= 7.396E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

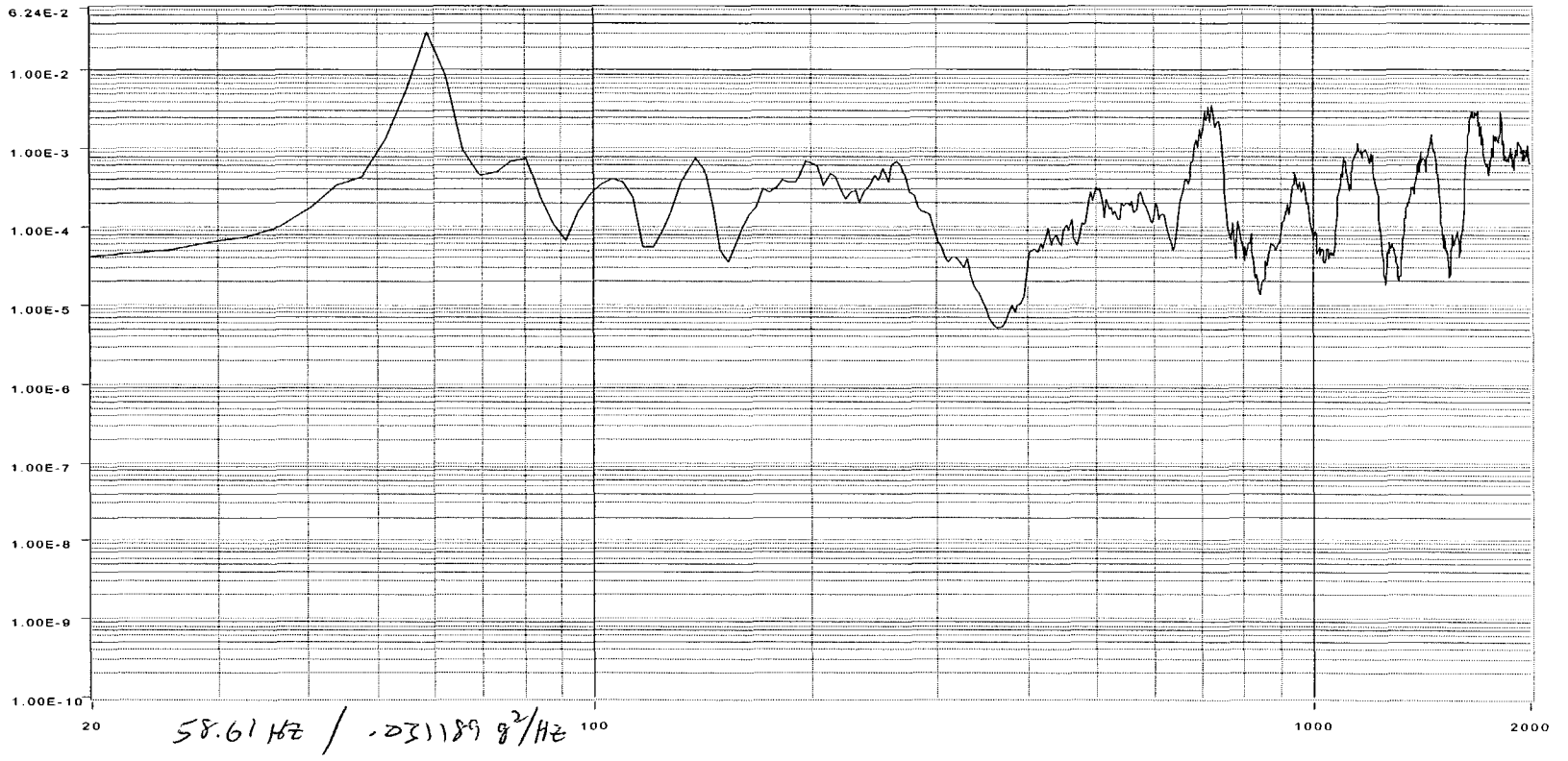
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 35.00

RMS= 1.072E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 9:52 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

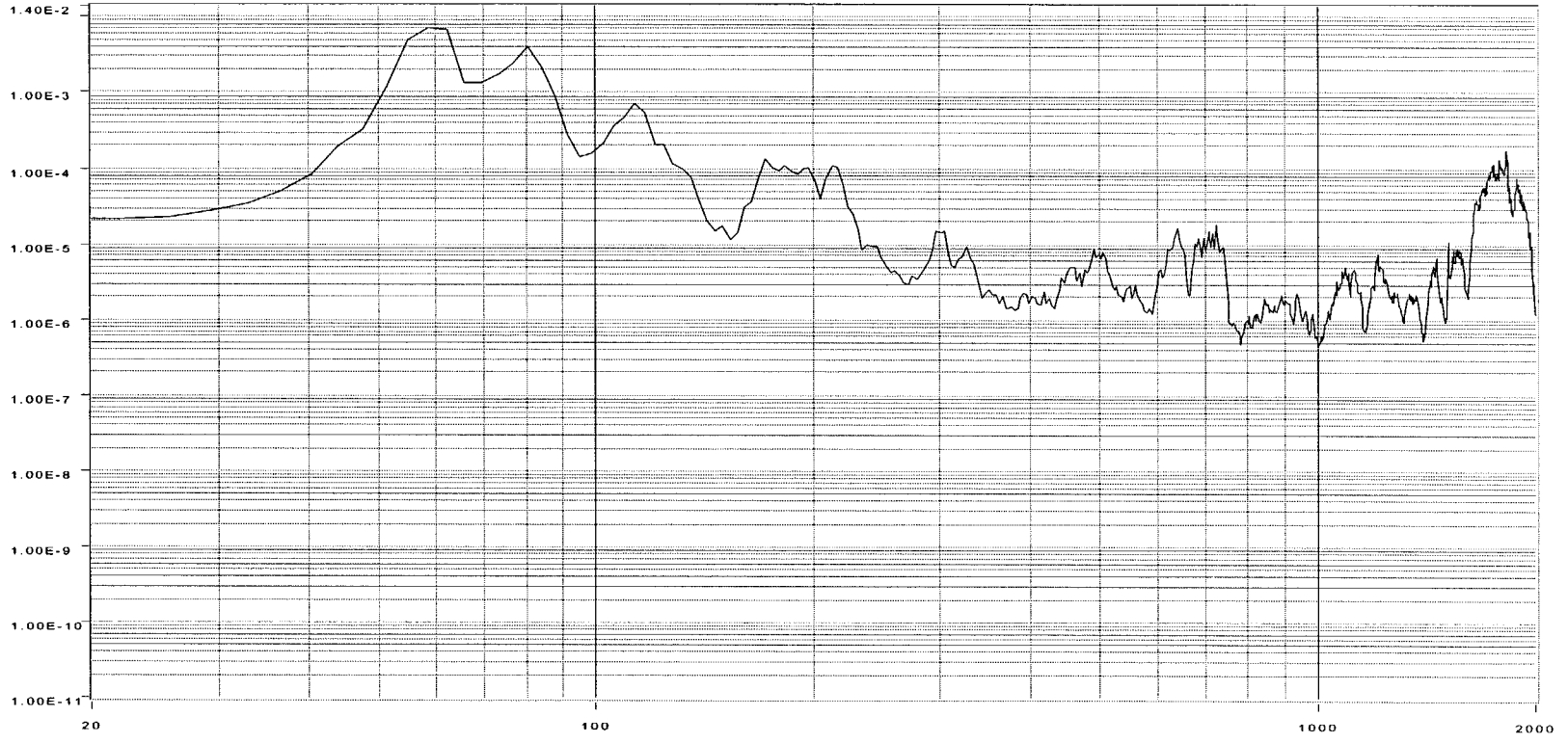
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 35.00

RMS= 4.122E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

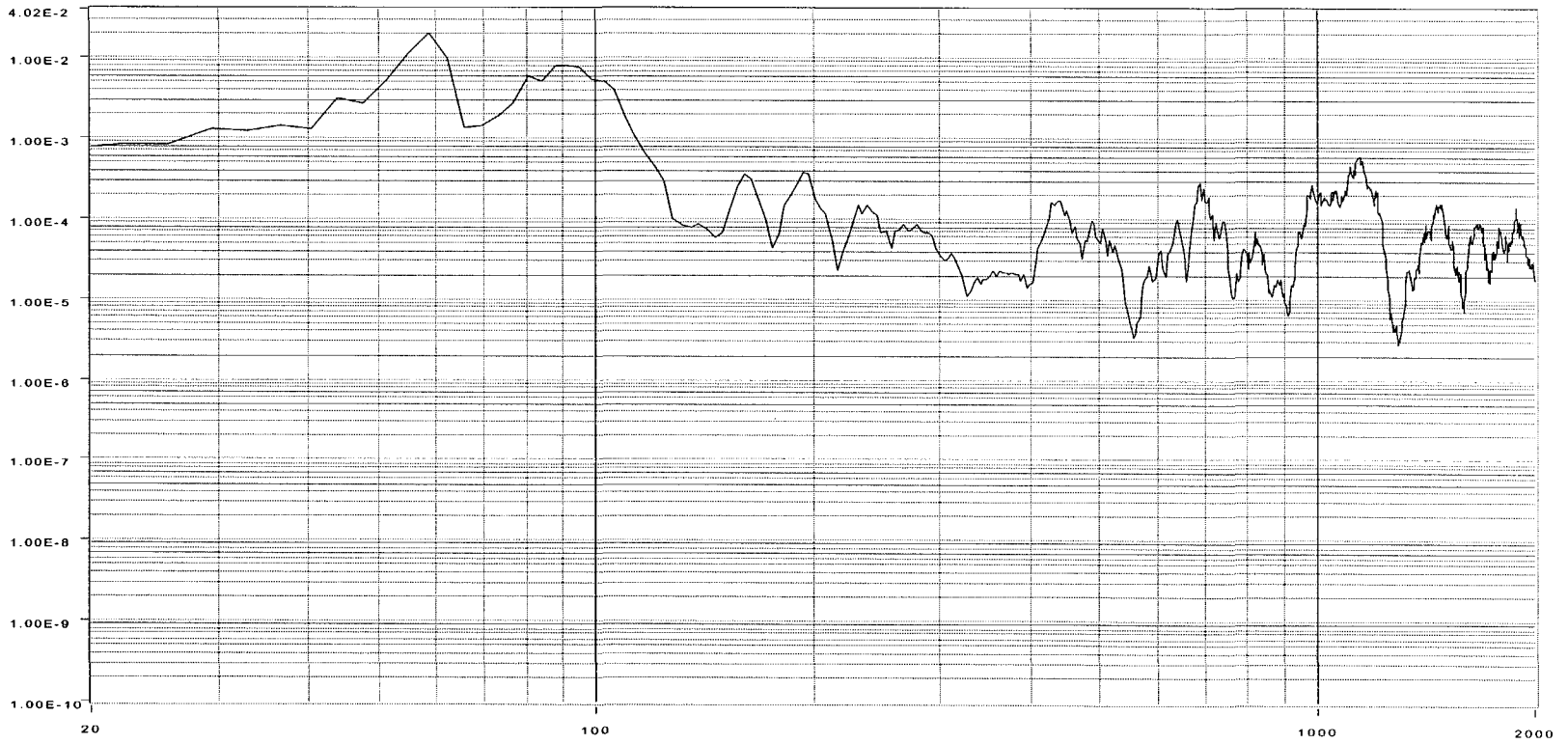
Channel #: 53 Node Number: 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 35.00

RMS= 7.743E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

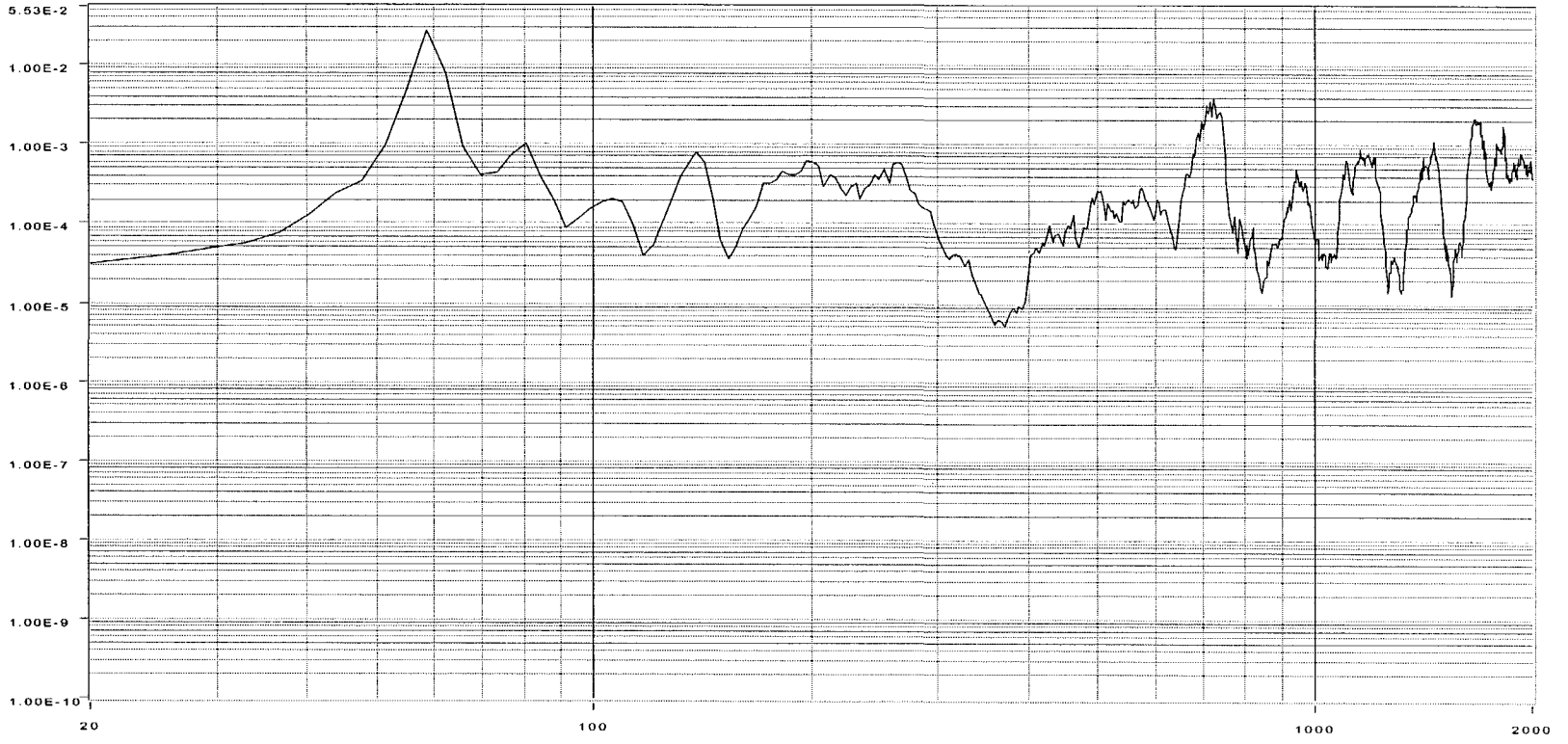
Channel #: 54 Node Number: 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 35.00

RMS= 9.684E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

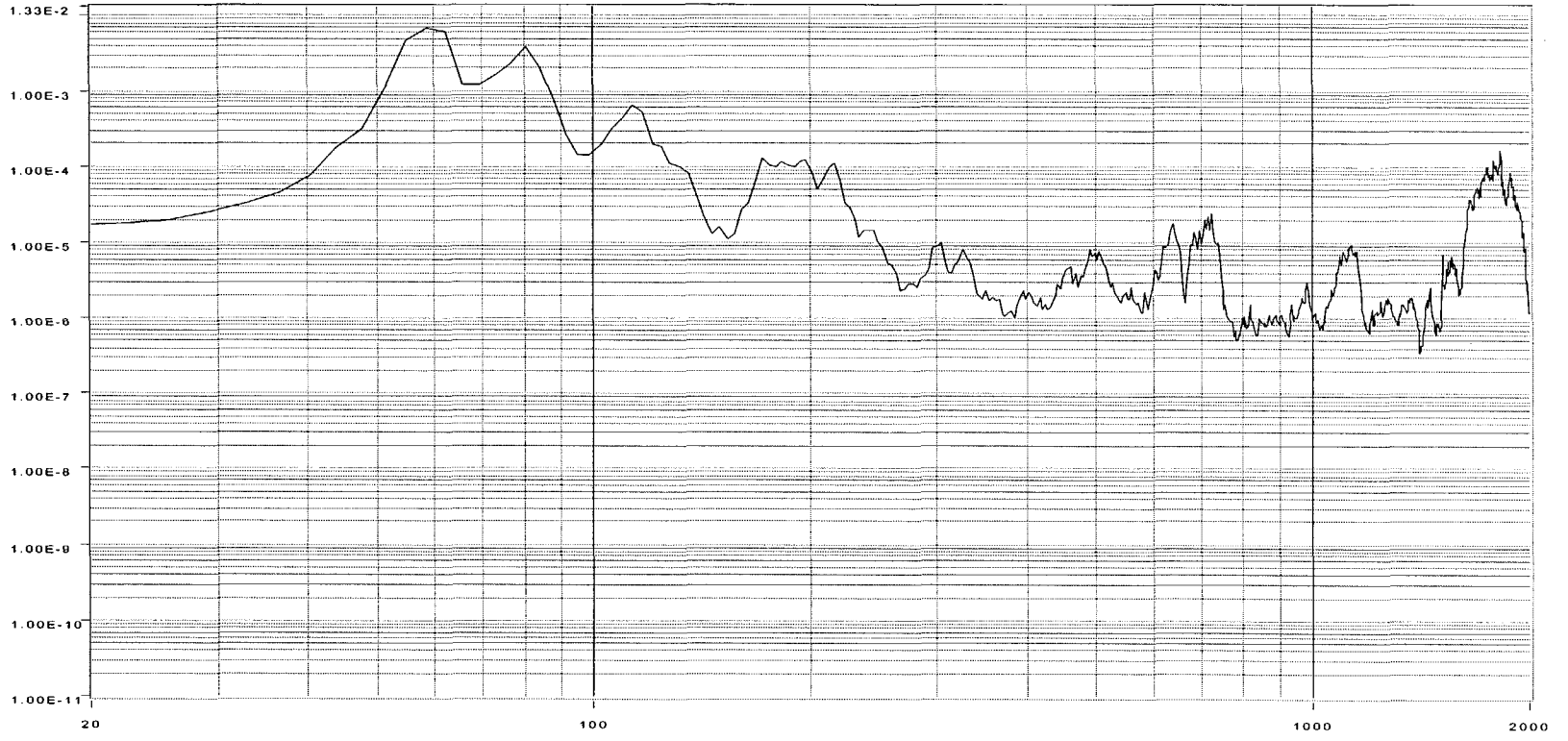
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 35.00

RMS= 4.001E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

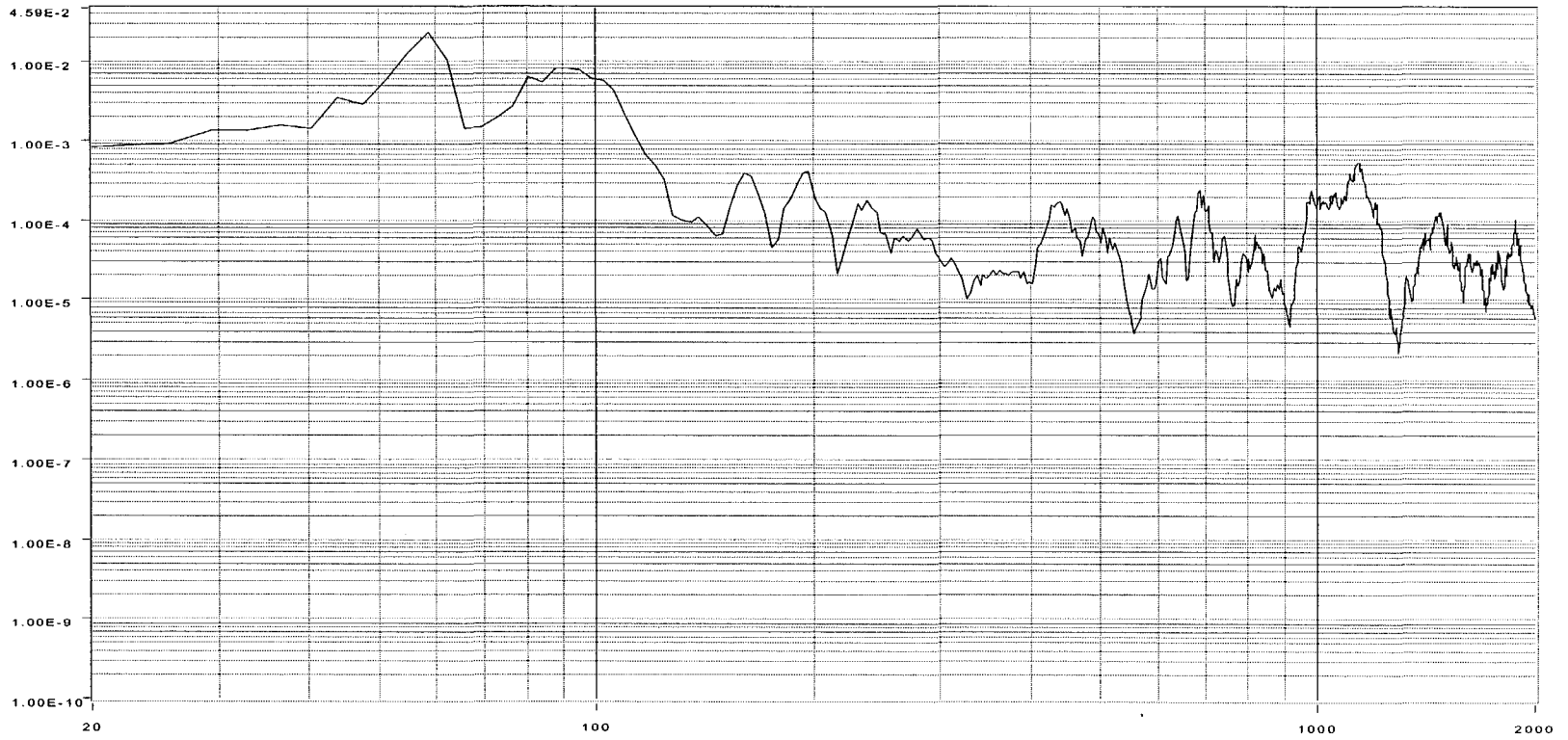
Channel #: 56 Node Number: 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 35.00

RMS= 7.838E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 23-Jun-2002 6:58:50

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062304

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db random

Part number/id: Y4011

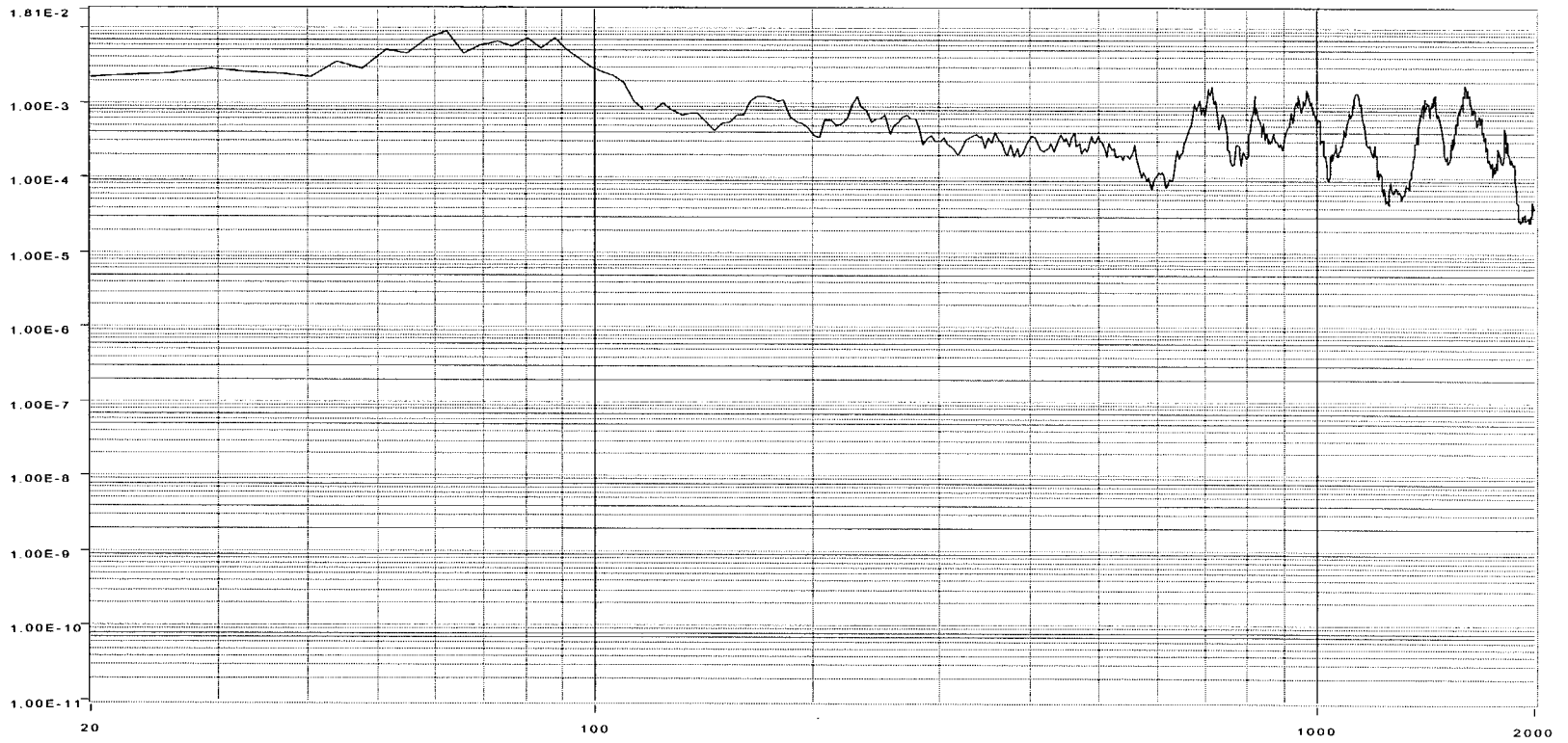
Channel #: 57 Node Number: 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 35.00

RMS= 1.102E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

Analysis Date & time: 6/23/02 7:17 AM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

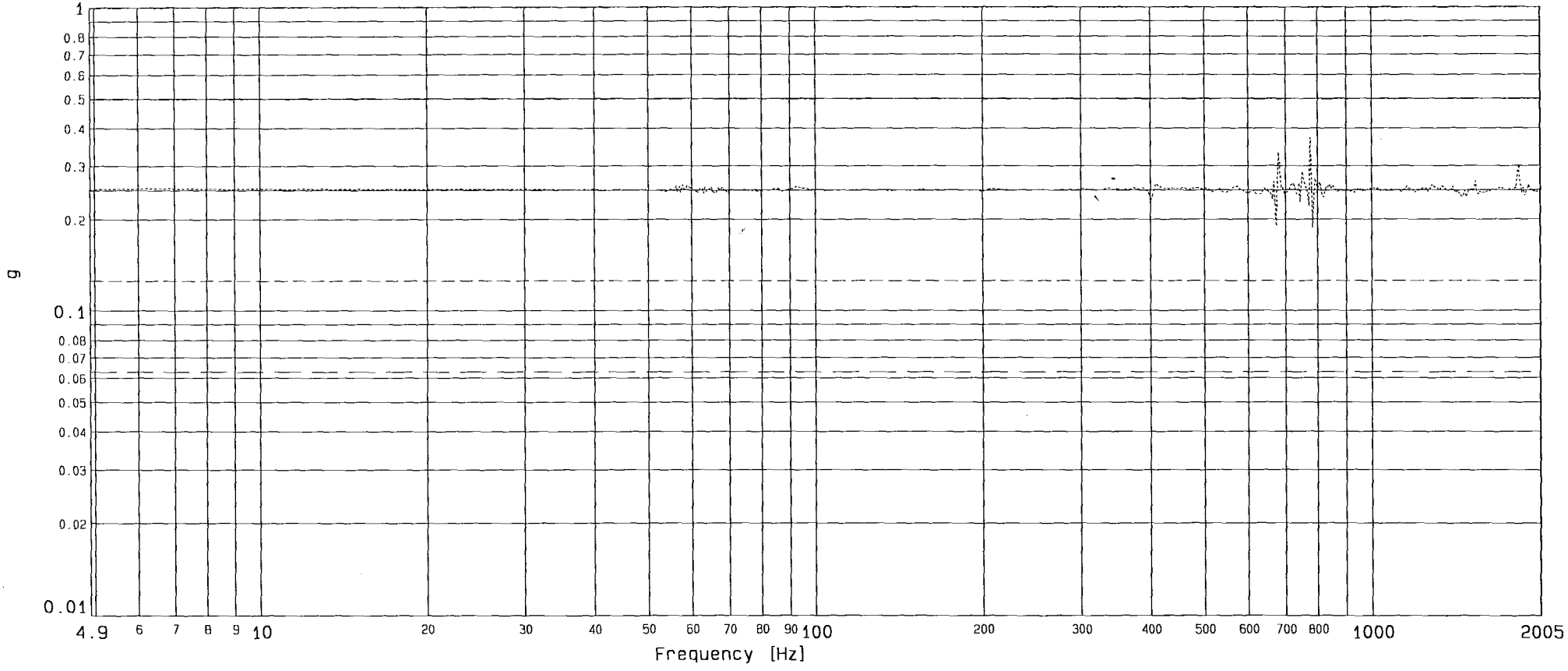
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05:07:14
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

LMS

LOCKHEED MARTIN MISSILES & SPACE

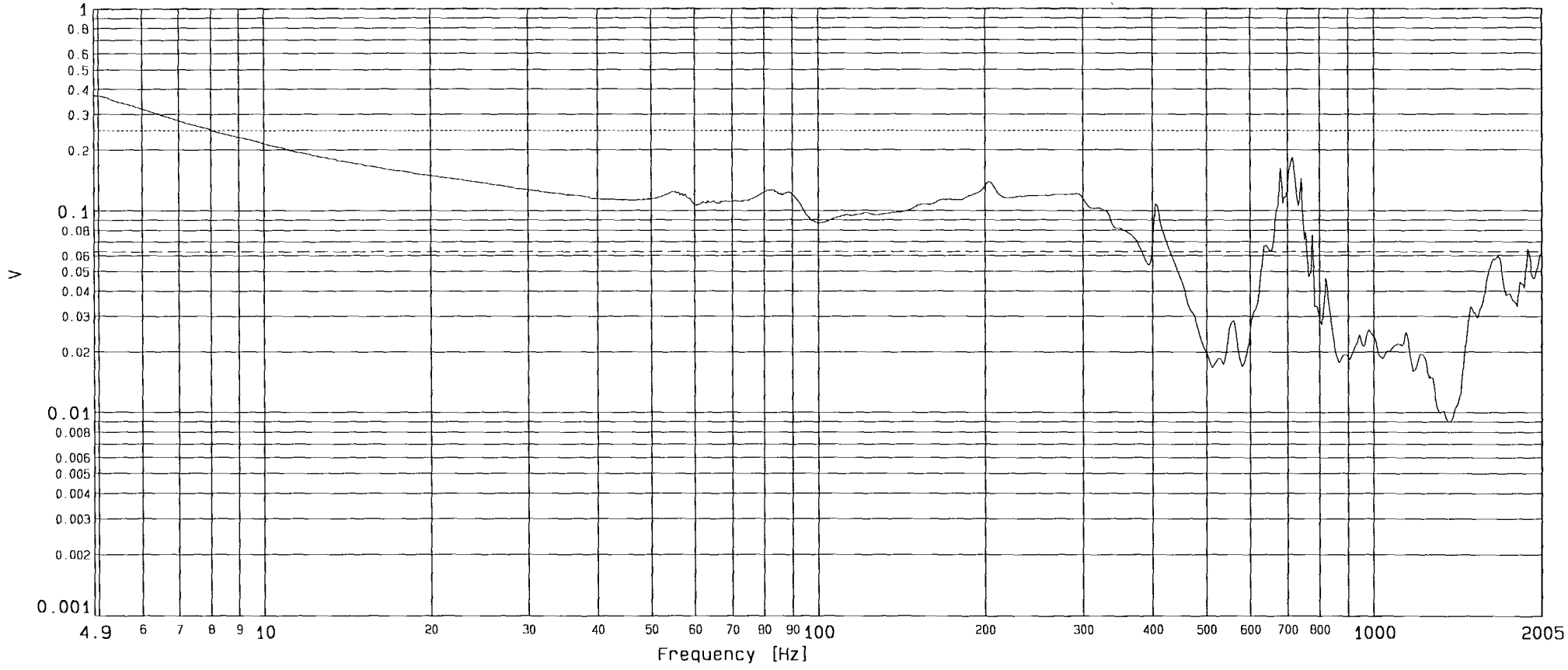
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05: 07: 14
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 374.78e-03 V

Trace identification :
- Drive
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

LOCKHEED MARTIN MISSILES & SPACE

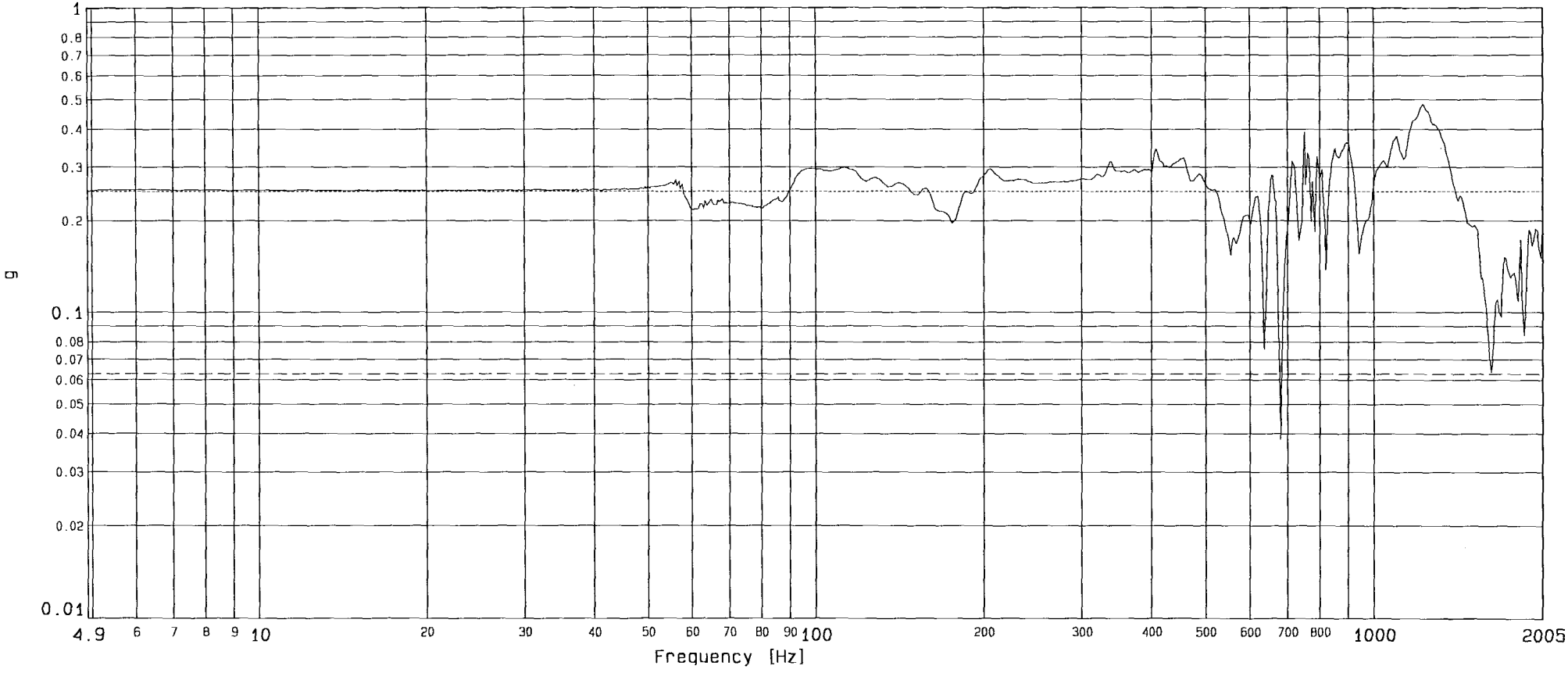
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05:07:14
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 481.69e-03 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

LMS

LOCKHEED MARTIN MISSILES & SPACE

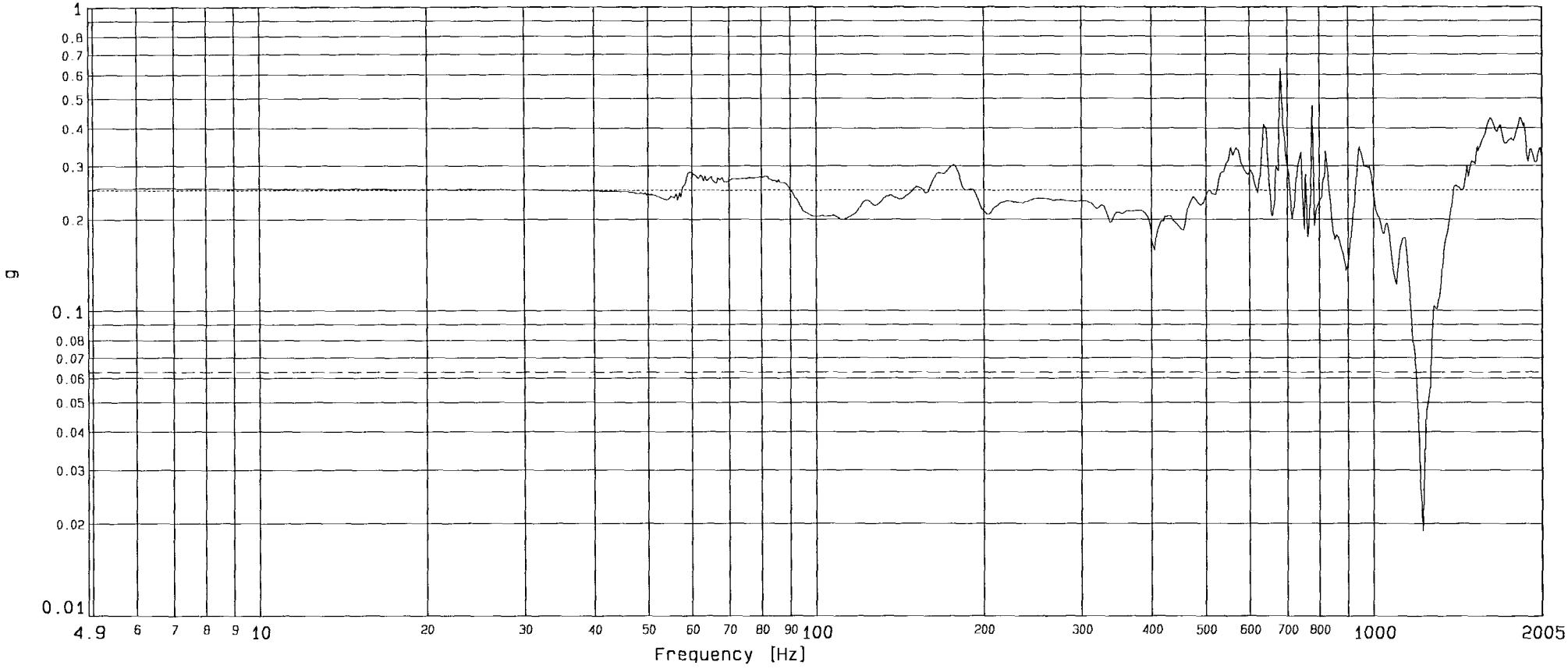
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05: 07: 14
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 627.66e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

LOCKHEED MARTIN MISSILES & SPACE

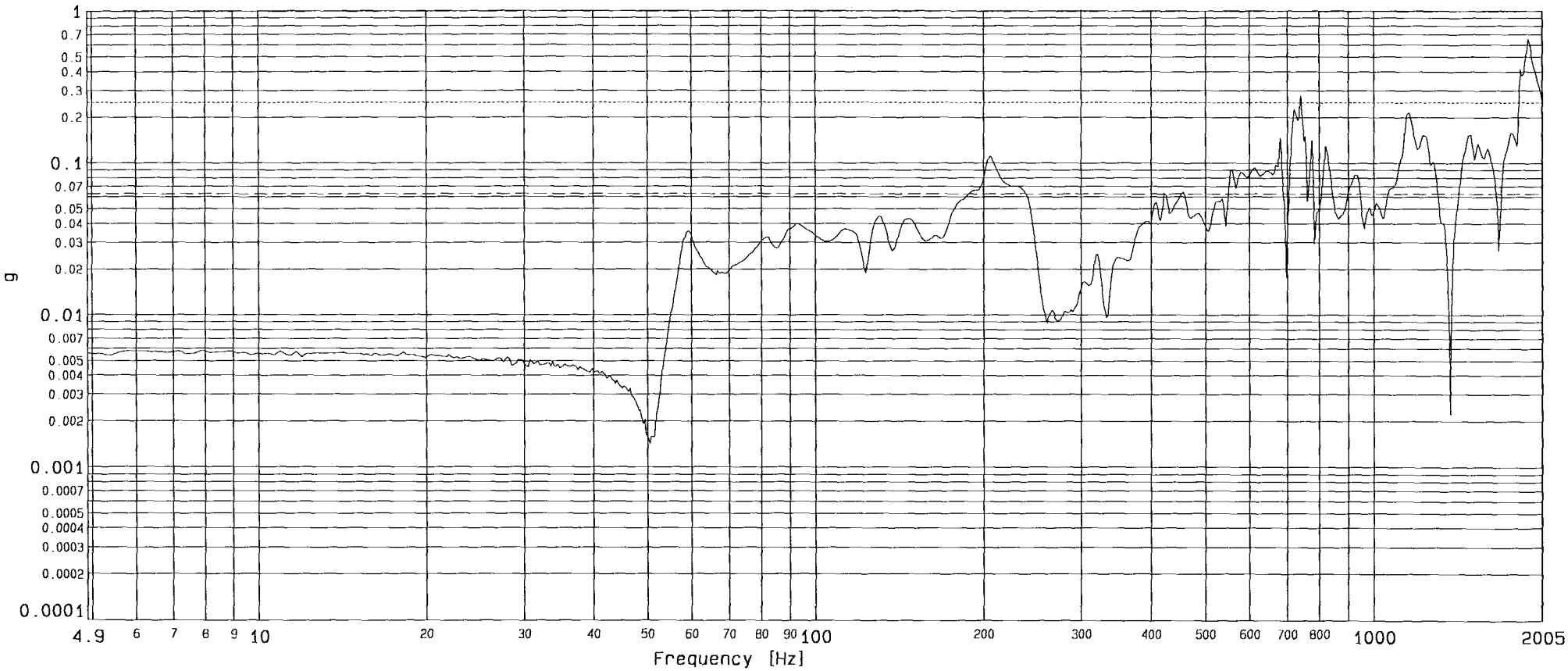
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05:07:15
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 655.72e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

LOCKHEED MARTIN MISSILES & SPACE

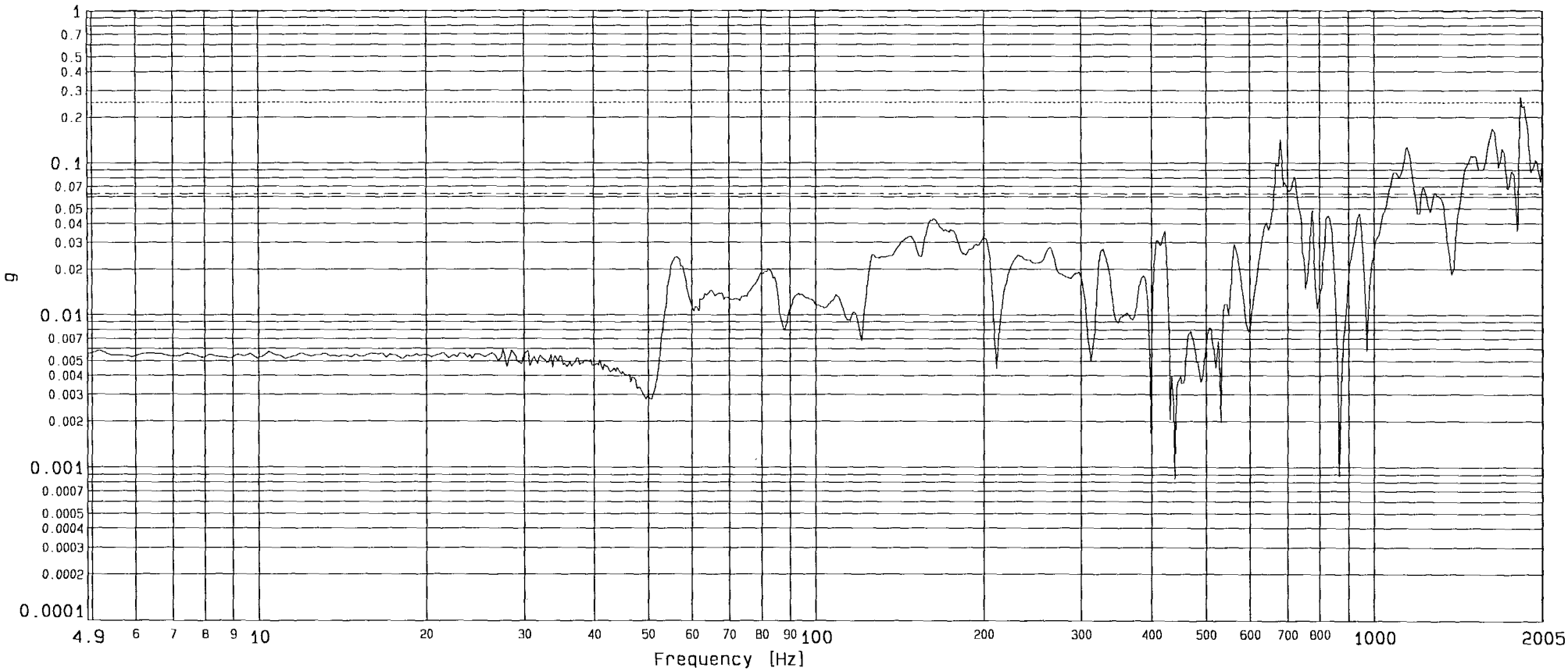
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05: 07: 15
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 271.79e-03 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

LOCKHEED MARTIN MISSILES & SPACE

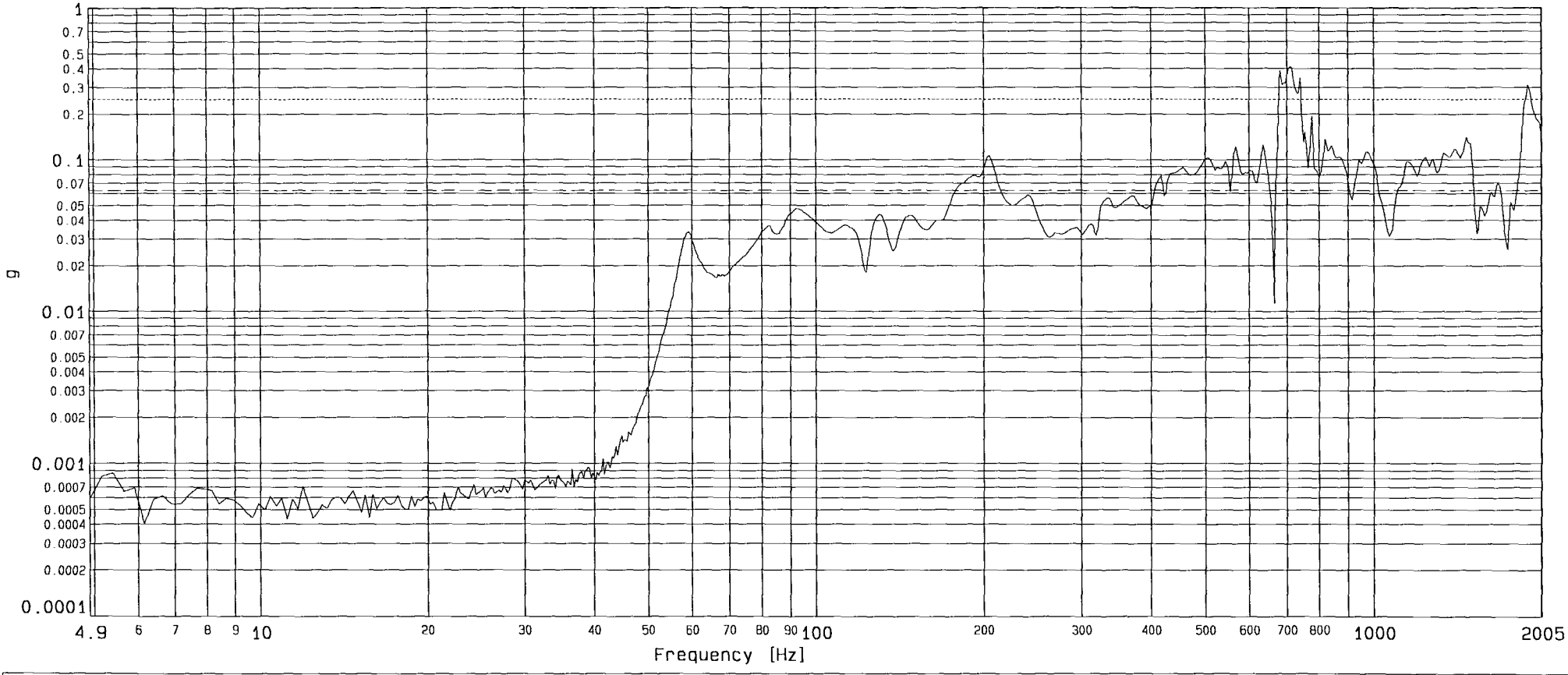
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05:07:15
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 409.48e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

LMS

LOCKHEED MARTIN MISSILES & SPACE

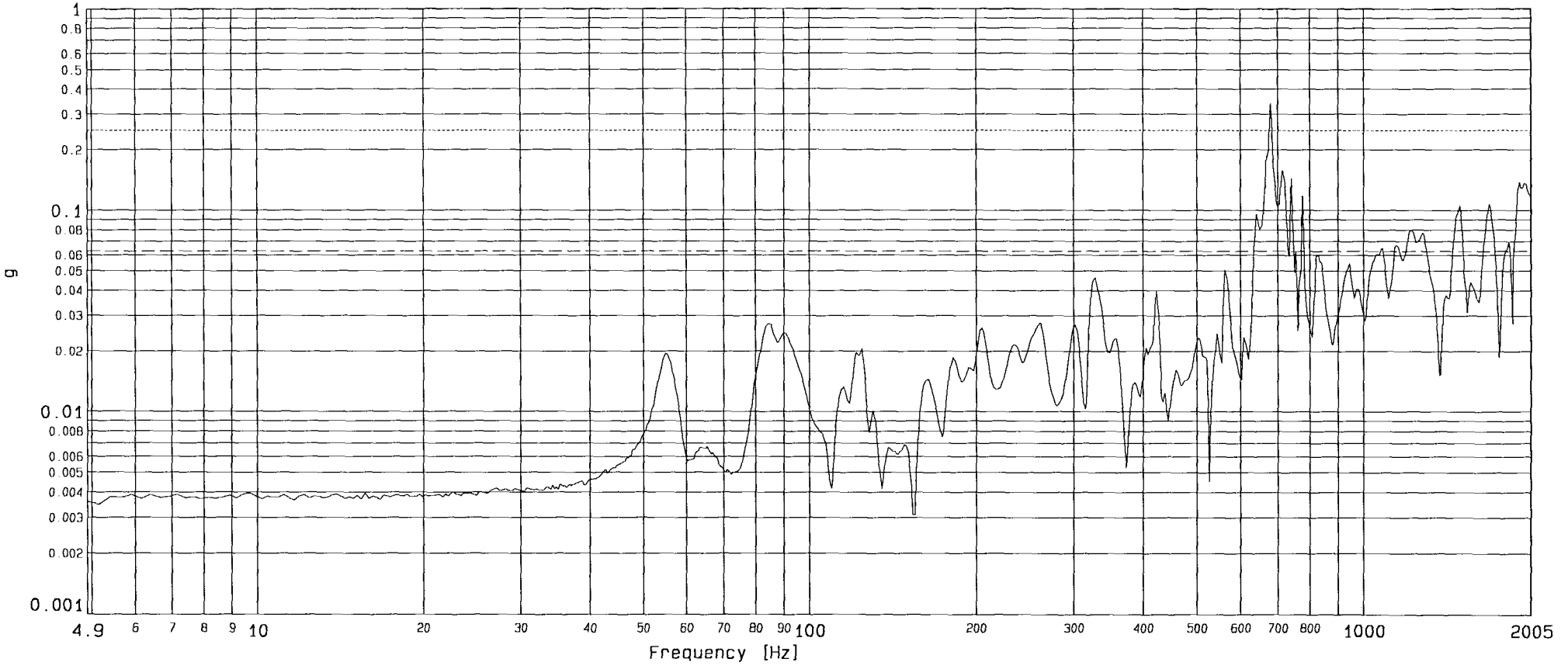
Project : hirdls
Test : Z_Signature
Run : 24 062303

Date : 23-06-02
Time : 05:07:15
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 341.57e-03 g

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062303

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

North_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

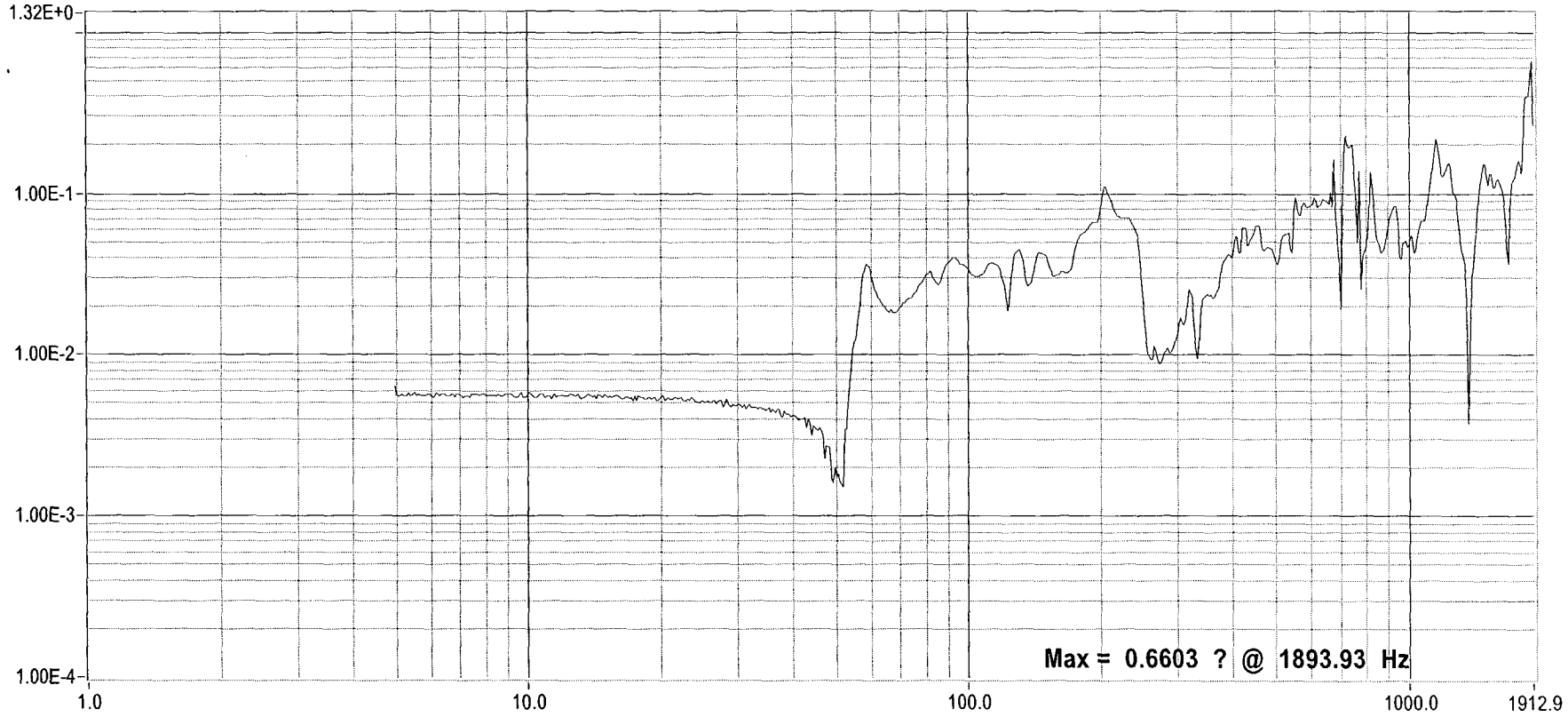
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 1 Node Number: 0001

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:50 AM

Frequency HZ

North_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

North_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

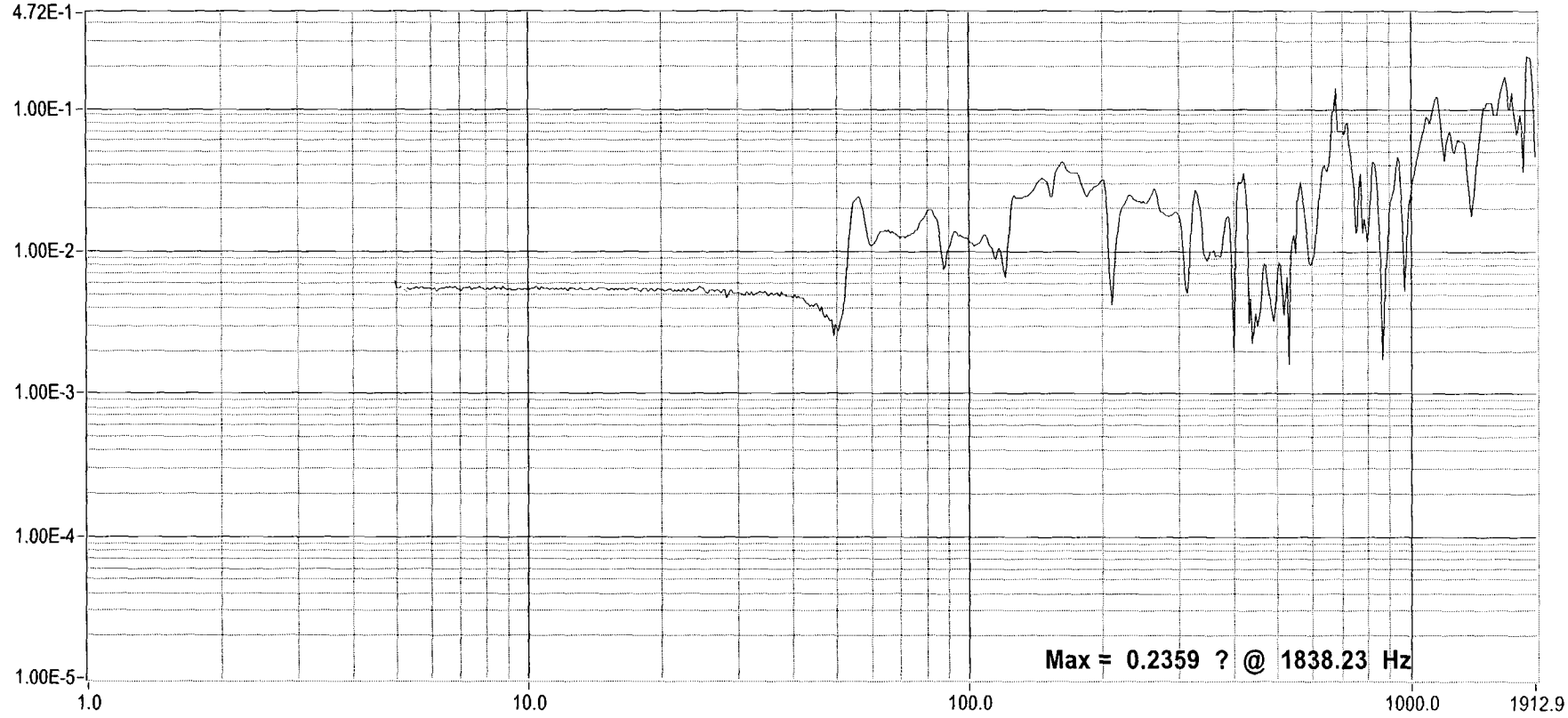
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 2 **Node Number:** 0002

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:51 AM

Frequency HZ

North_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

North_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

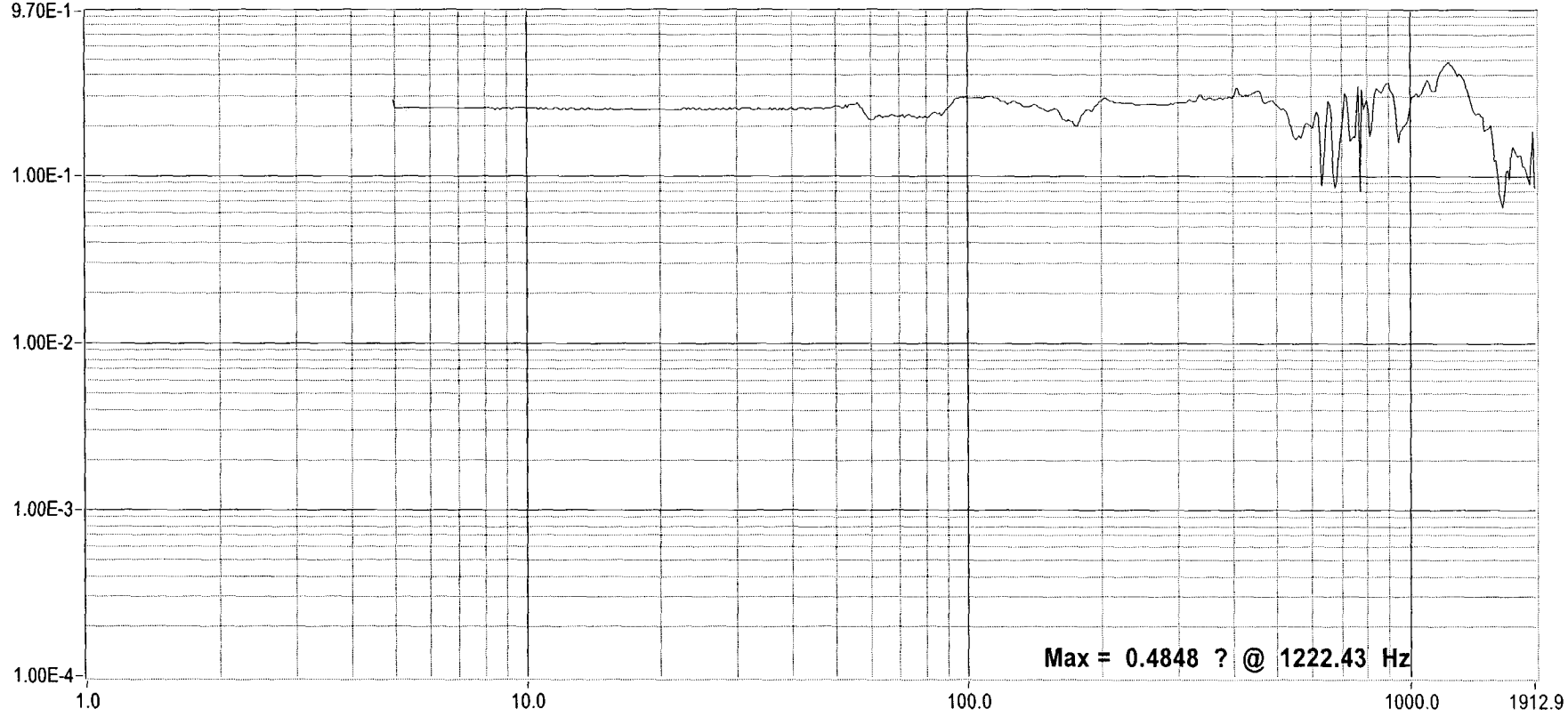
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 3 **Node Number:** 0003

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:51 AM

Frequency HZ

North_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

South_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

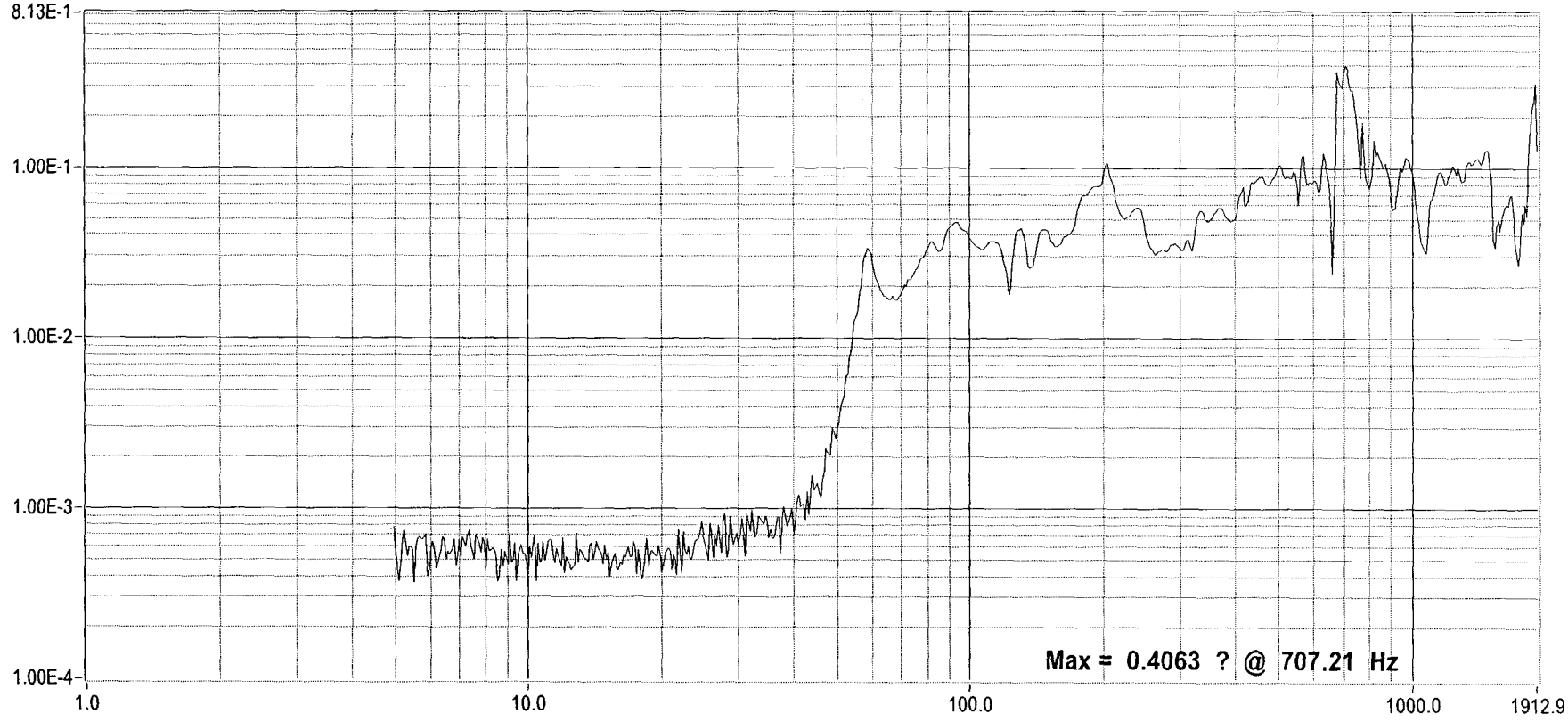
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 4 **Node Number:** 0004

Channel Description: I

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:51 AM

Frequency HZ

South_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

South_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

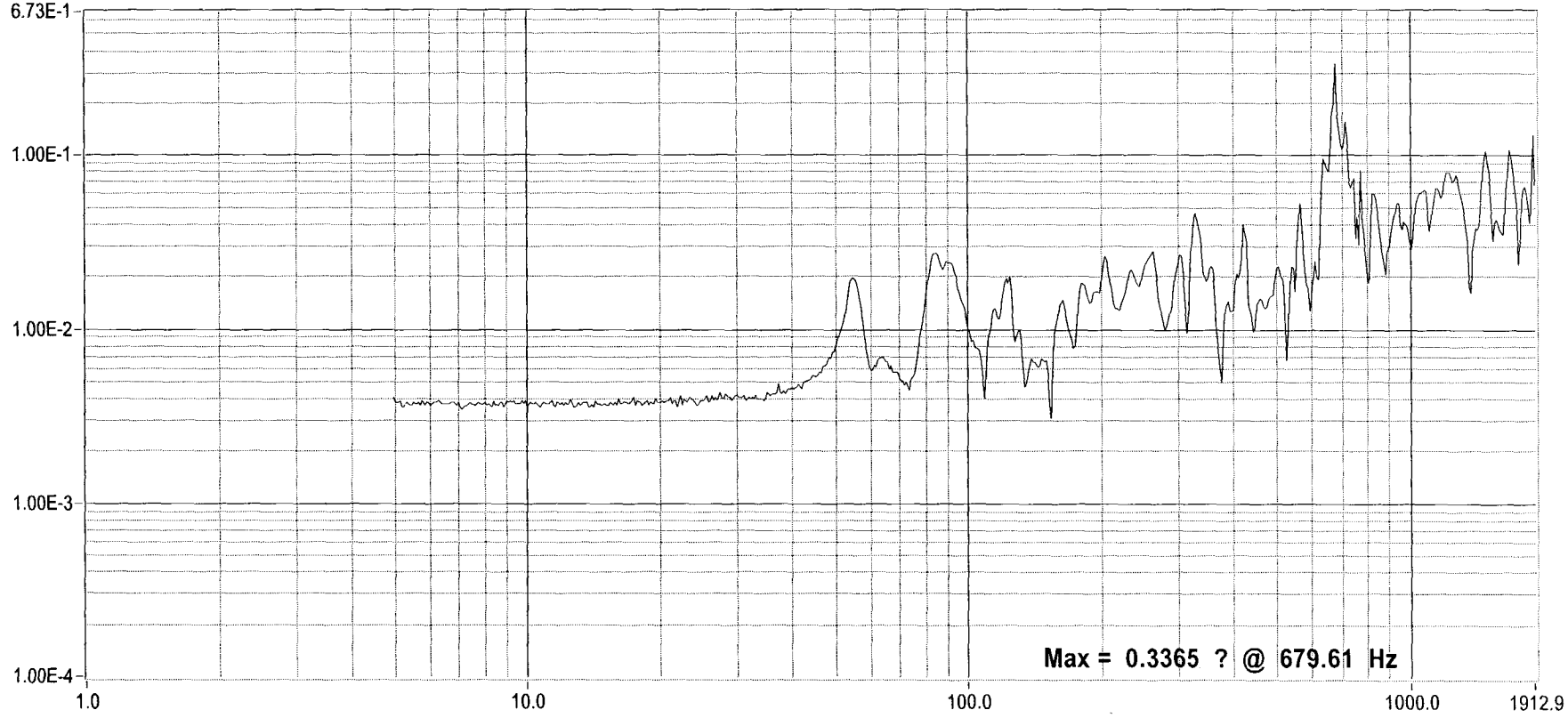
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 5 **Node Number:** 0005

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:52 AM

Frequency HZ

South_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

South_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

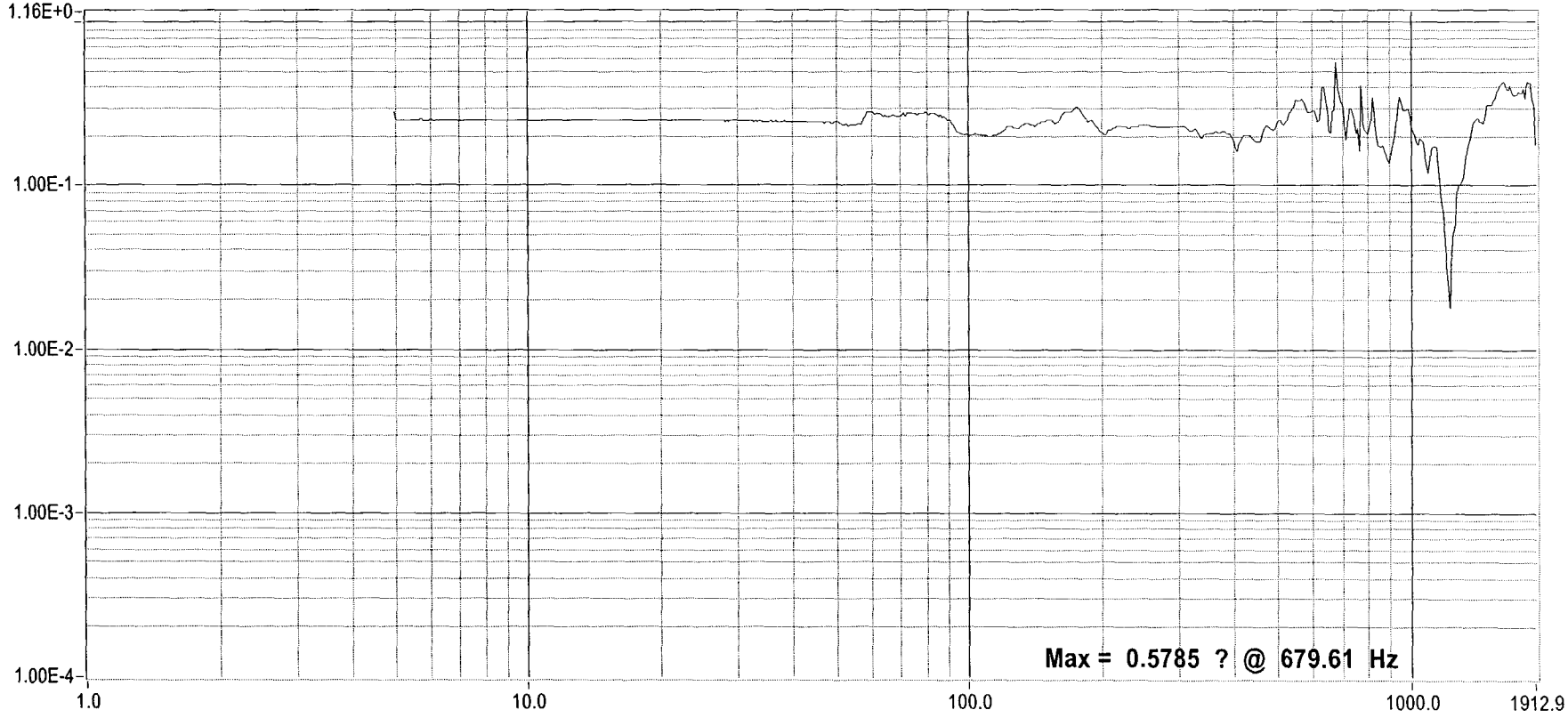
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 6 **Node Number:** 0006

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:52 AM

Frequency HZ

South_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A5 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

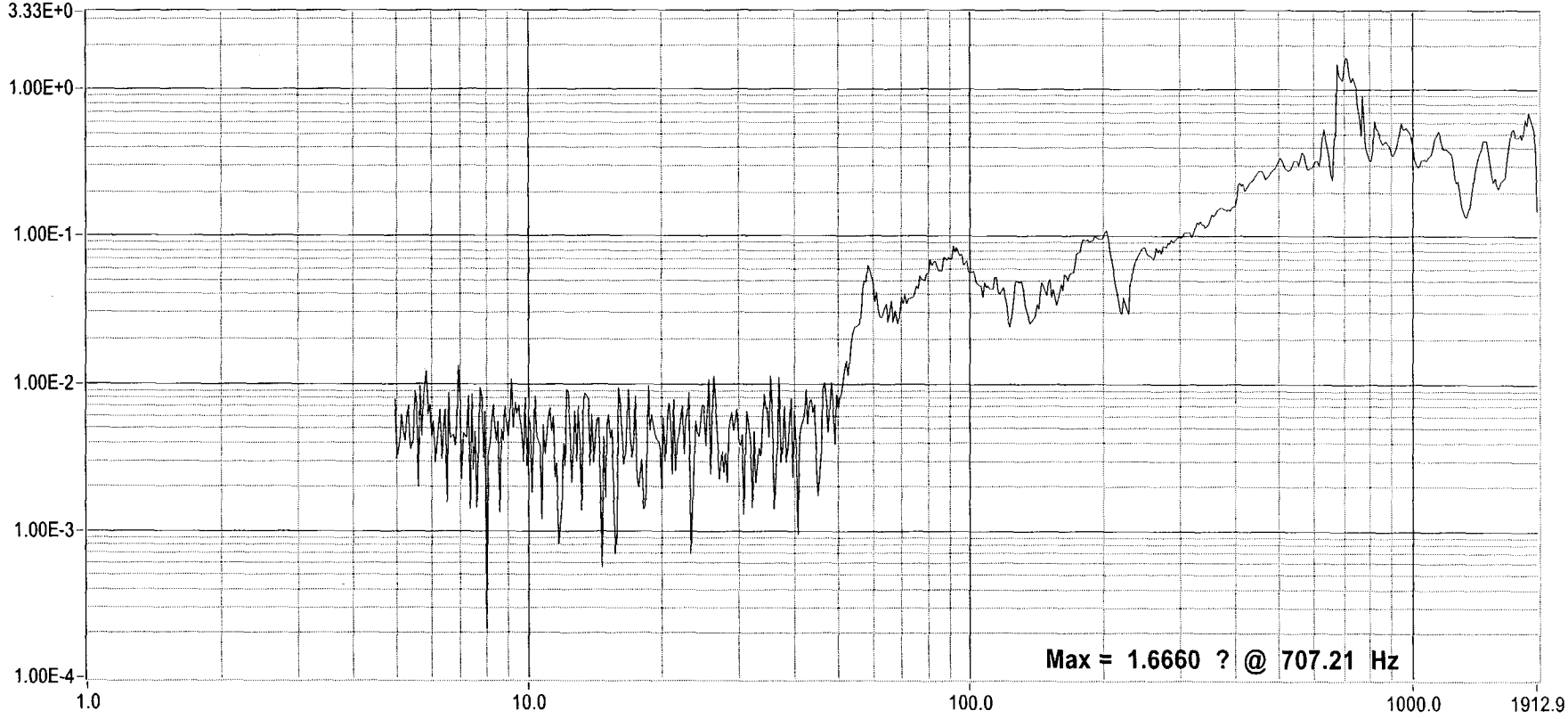
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 7 **Node Number:** 0007

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:52 AM

Frequency HZ

A5 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A5 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

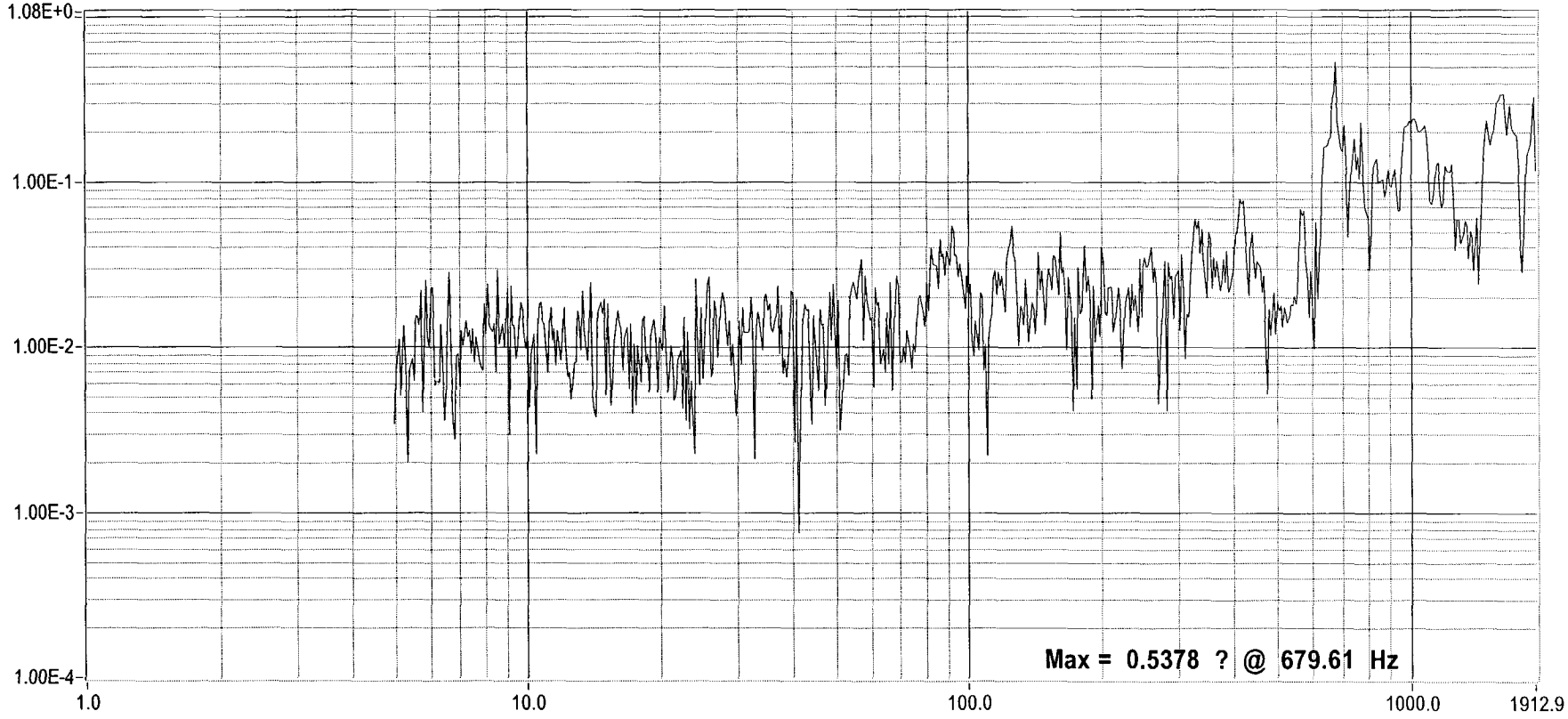
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 8 **Node Number:** 0008

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:52 AM

Frequency HZ

A5 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A5 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

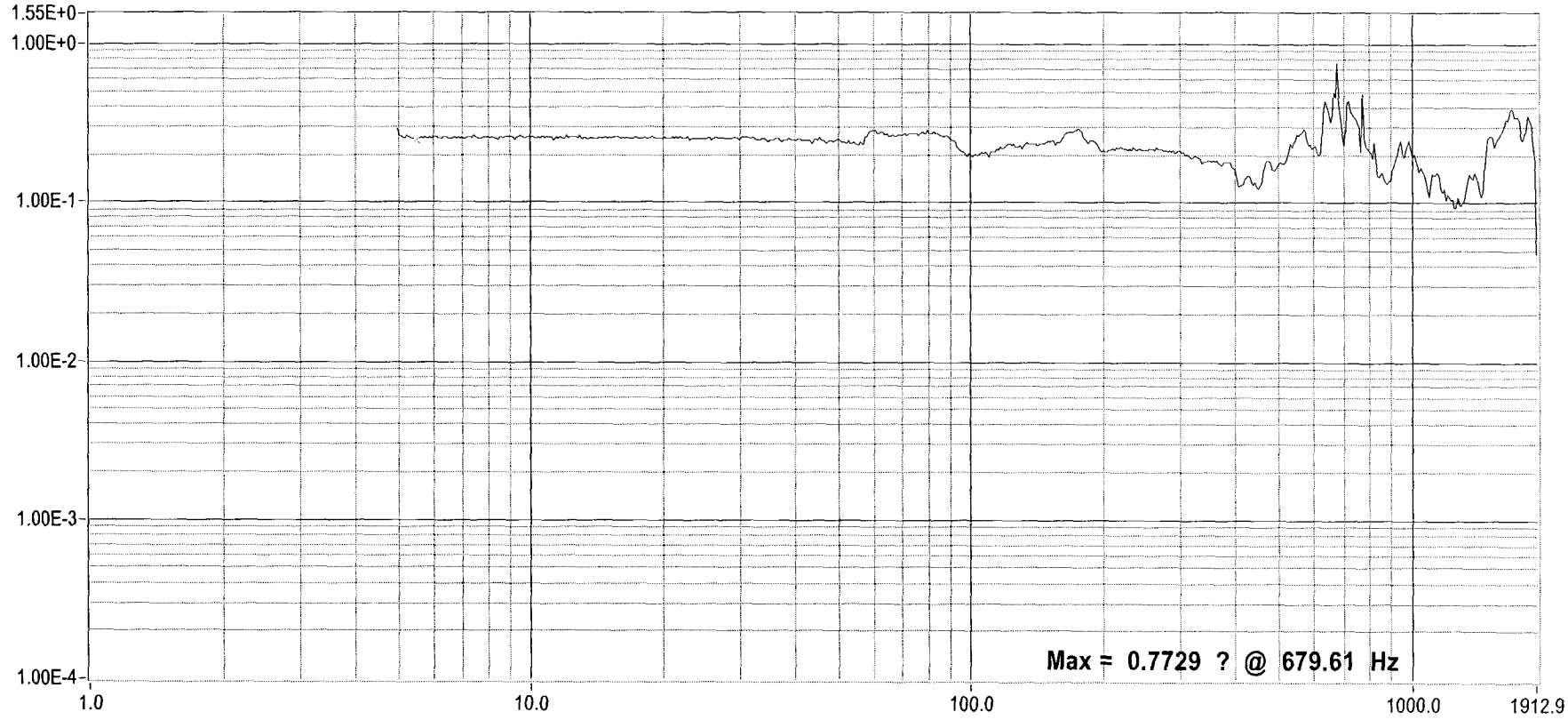
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 9 **Node Number:** 0009

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:53 AM

Frequency HZ

A5 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A6 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

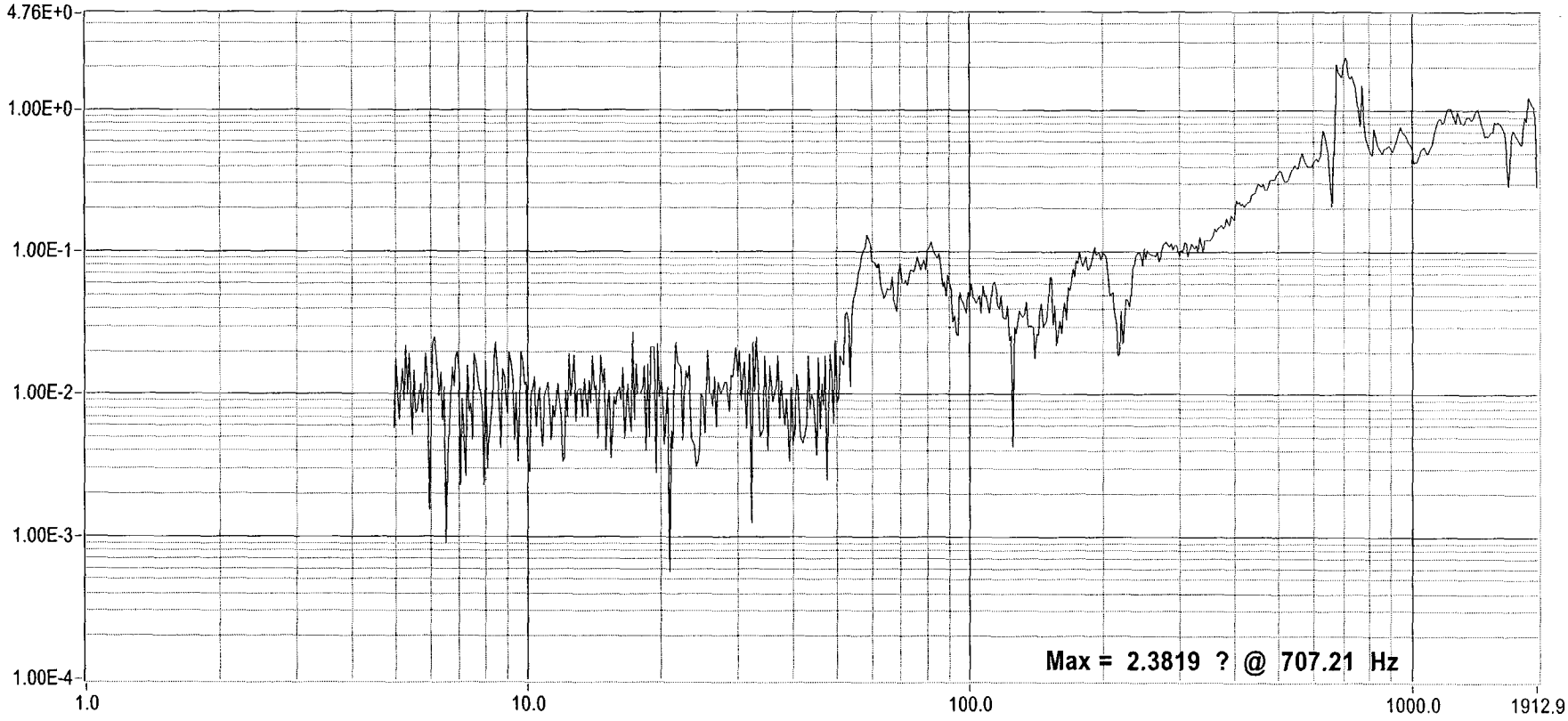
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 10 **Node Number:** 0010

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:53 AM

Frequency HZ

A6 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A6 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

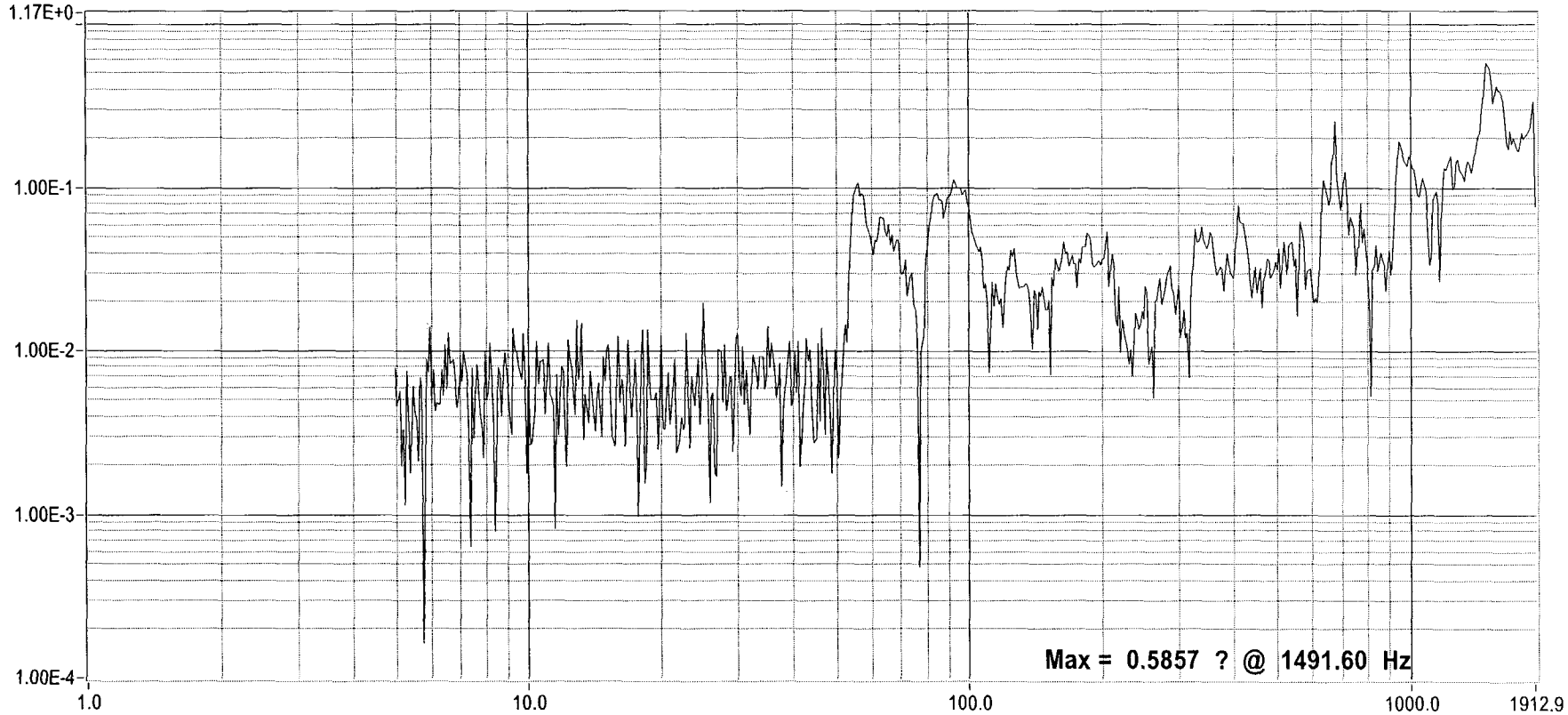
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 11 **Node Number:** 0011

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:53 AM

Frequency HZ

A6 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A6 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

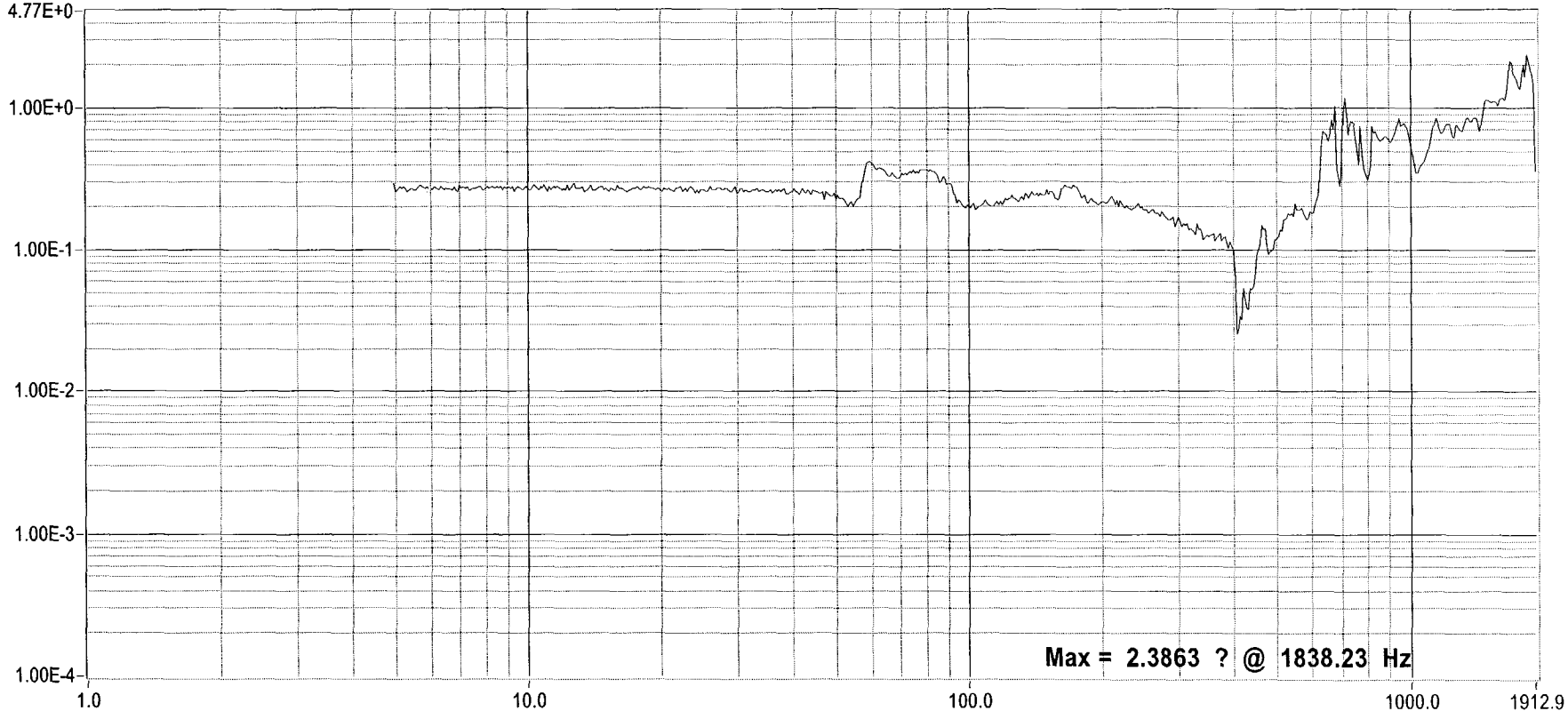
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 12 Node Number: 0012

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:53 AM

A6 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A7 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

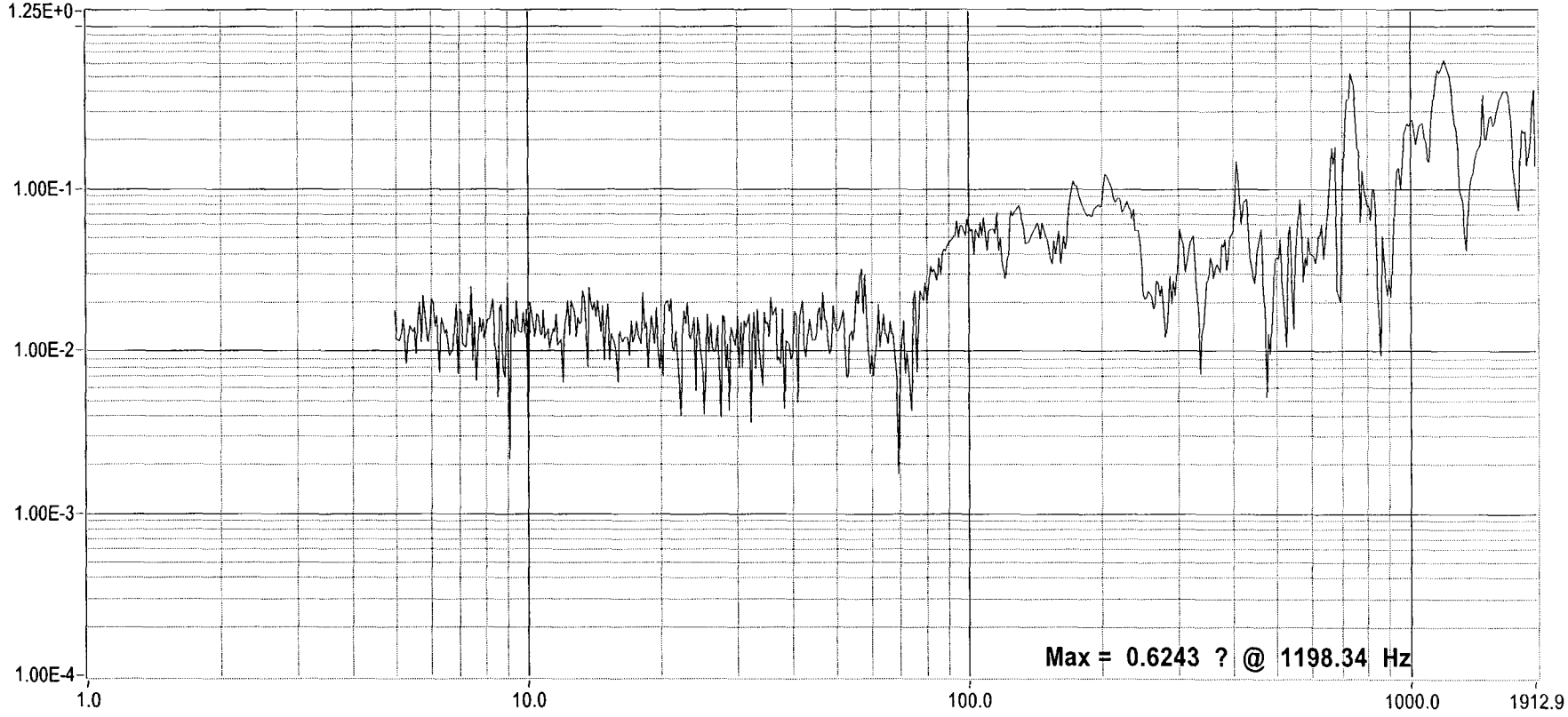
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 17 **Node Number:** 0017

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:54 AM

Frequency HZ

A7 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A7 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

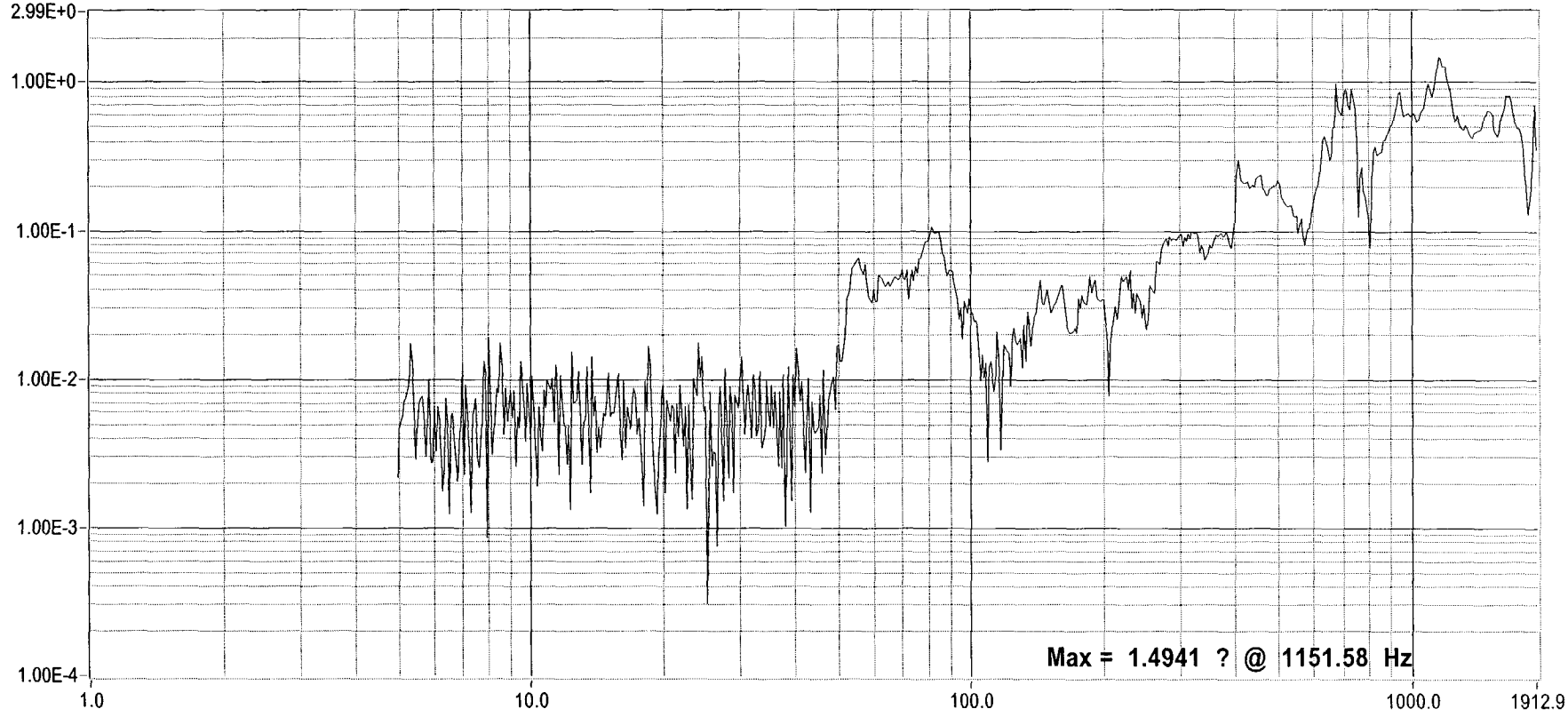
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 18 **Node Number:** 0018

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:54 AM

A7 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A7 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

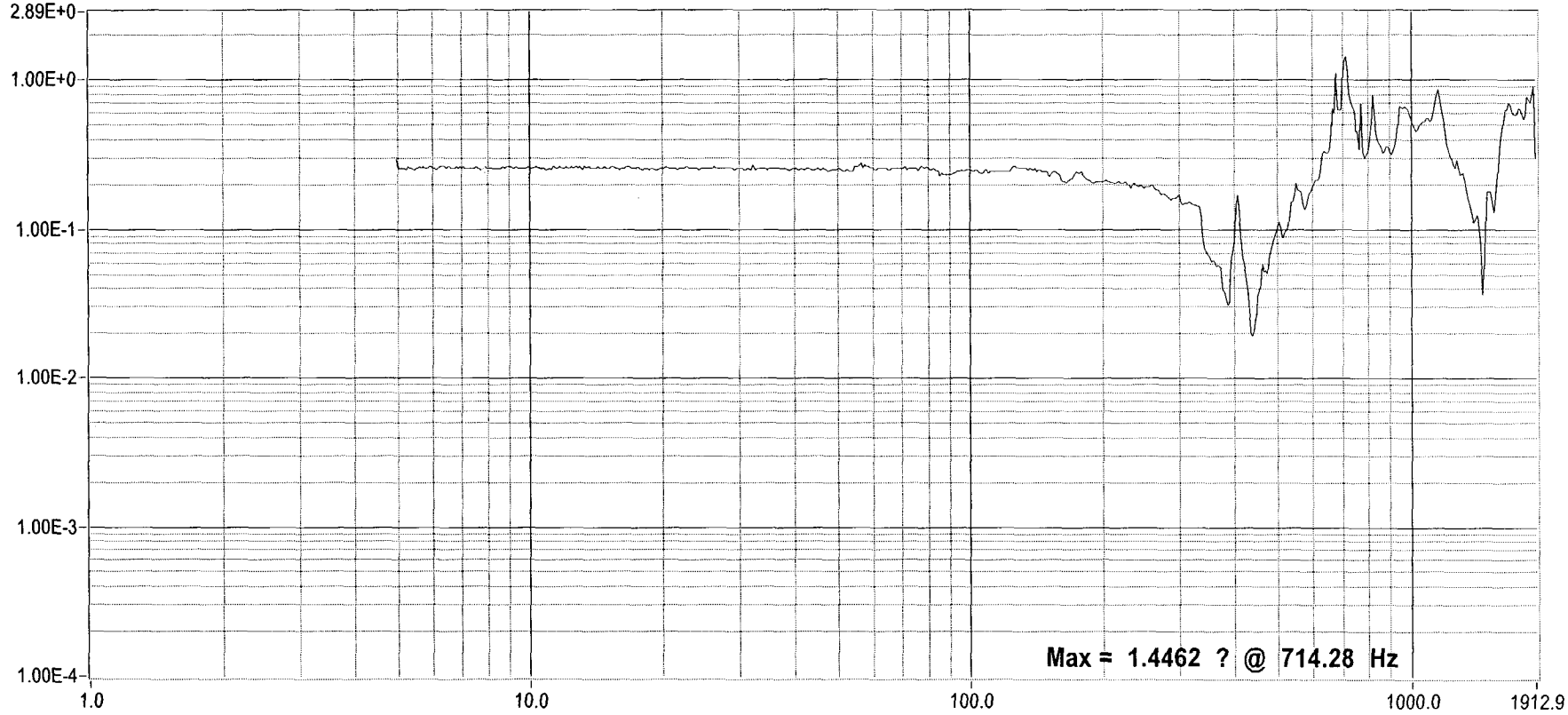
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 19 **Node Number:** 0019

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:54 AM

Frequency HZ

A7 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A8 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

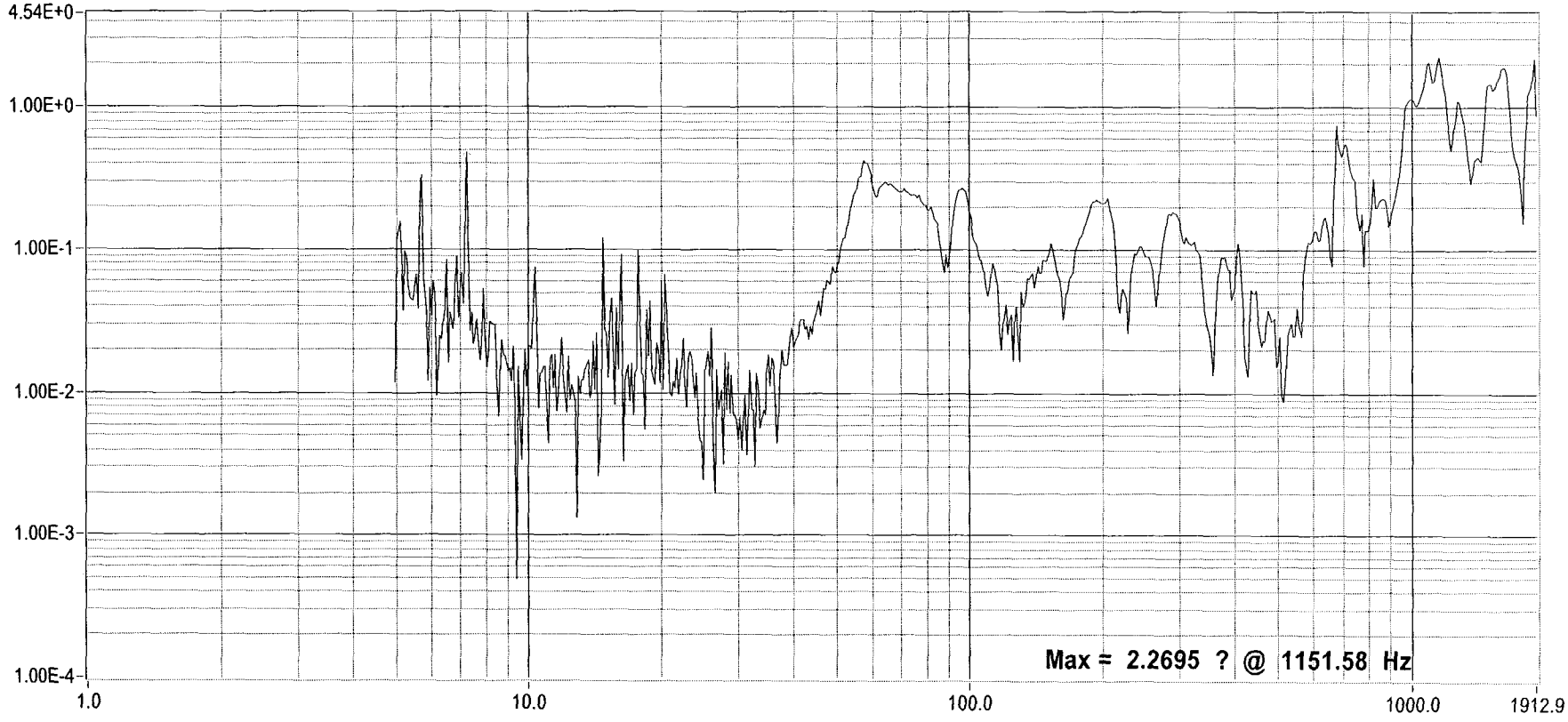
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 20 **Node Number:** 0020

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:55 AM

A8 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A8 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

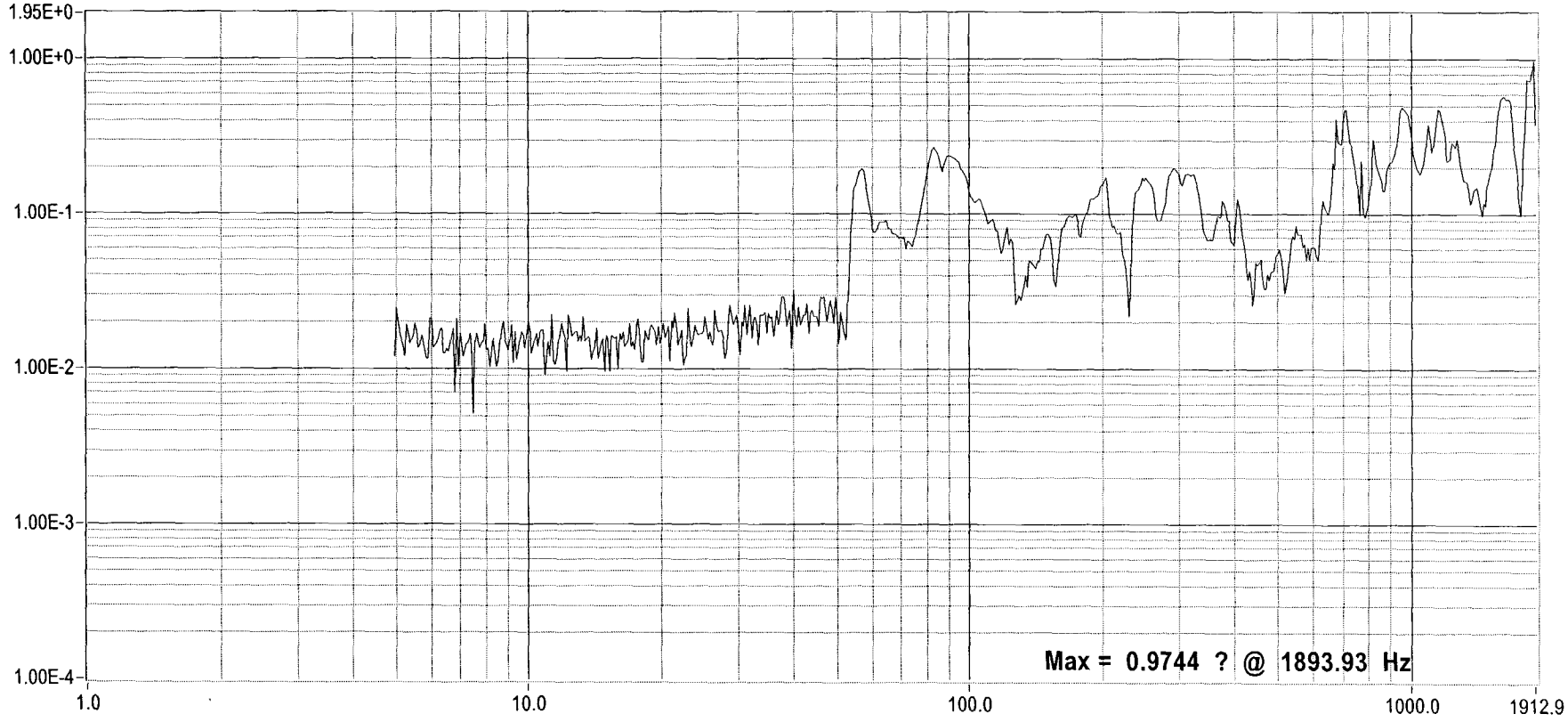
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 21 **Node Number:** 0021

Channel Description: 0.01034

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:55 AM

A8 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A8 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

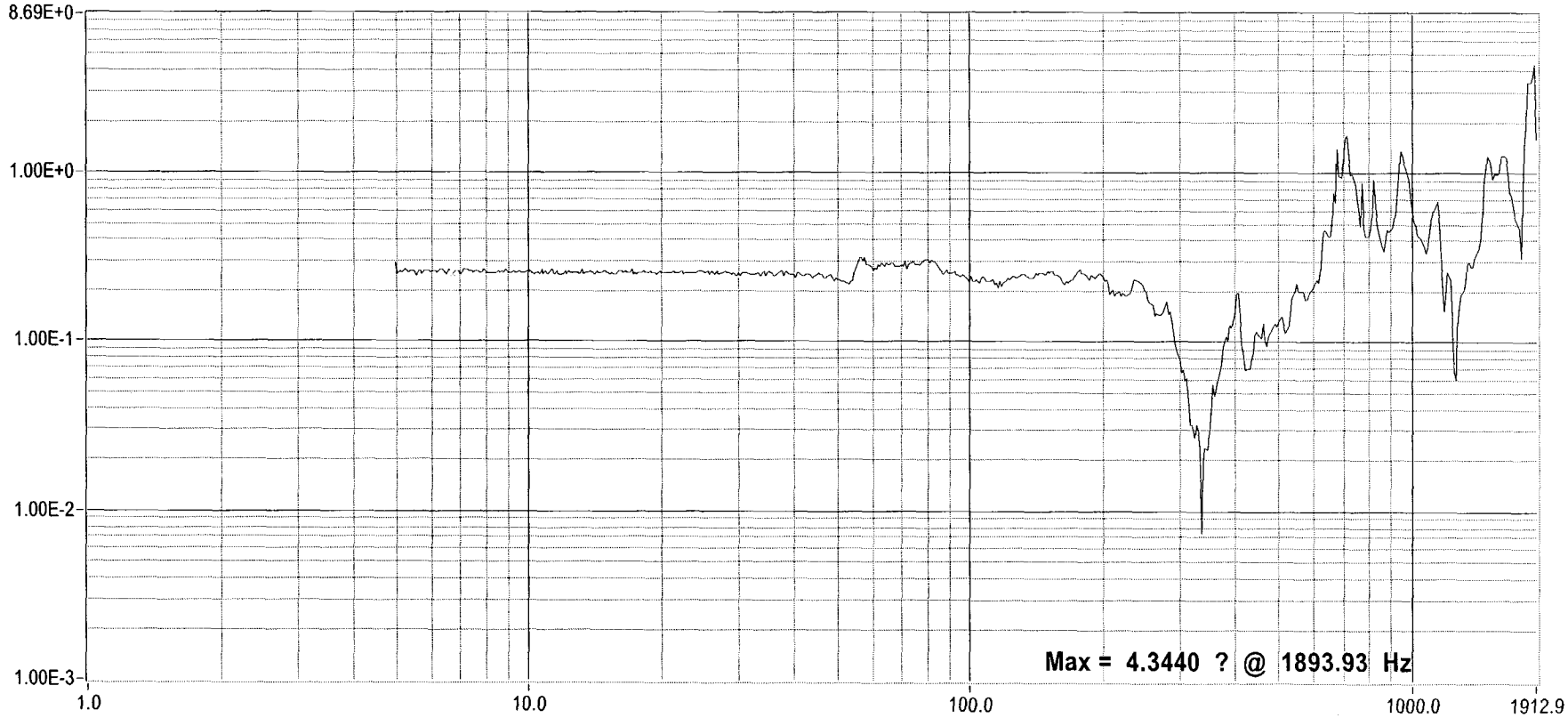
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 22 **Node Number:** 0022

Channel Description: 0.01029

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:55 AM

Frequency HZ

A8 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A9 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

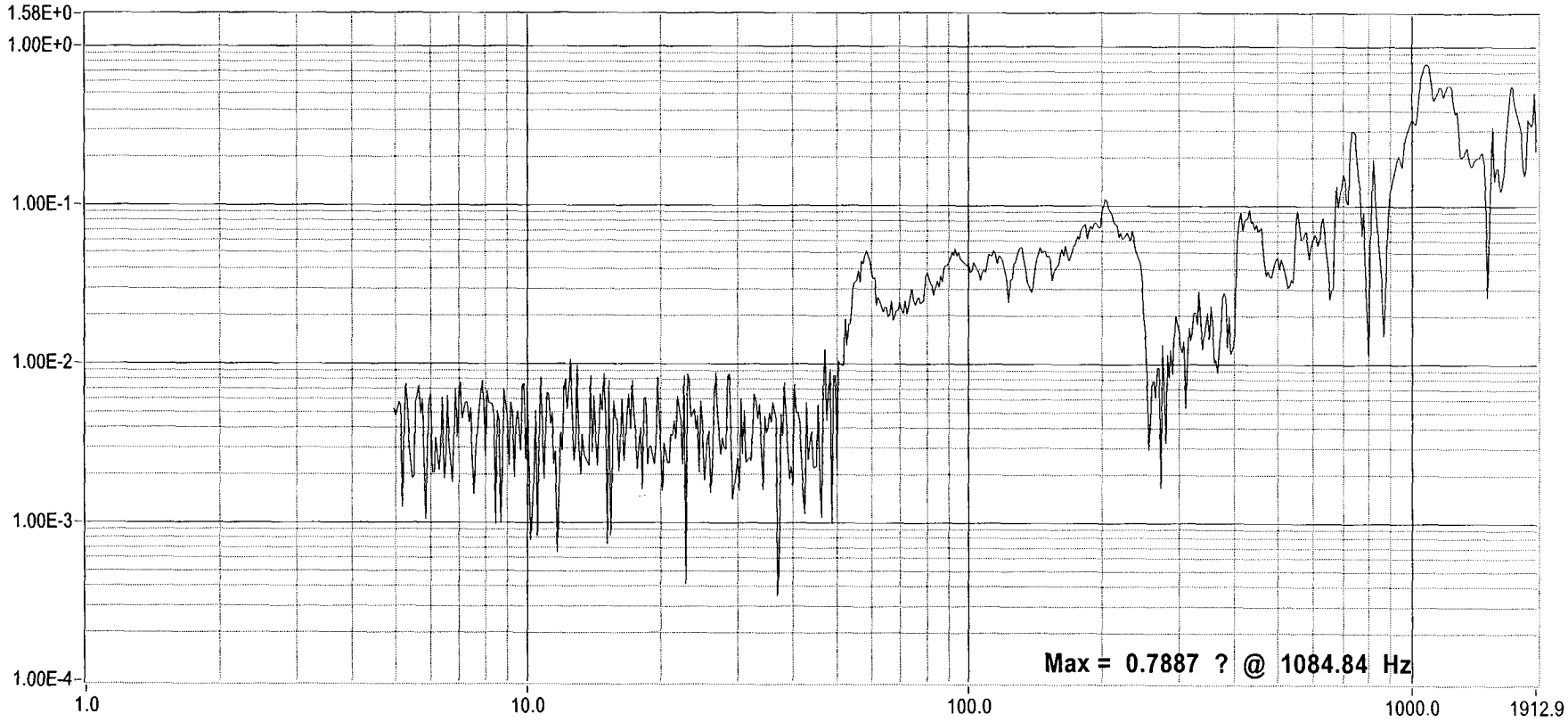
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 23 Node Number: 0023

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:55 AM

A9 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A9 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

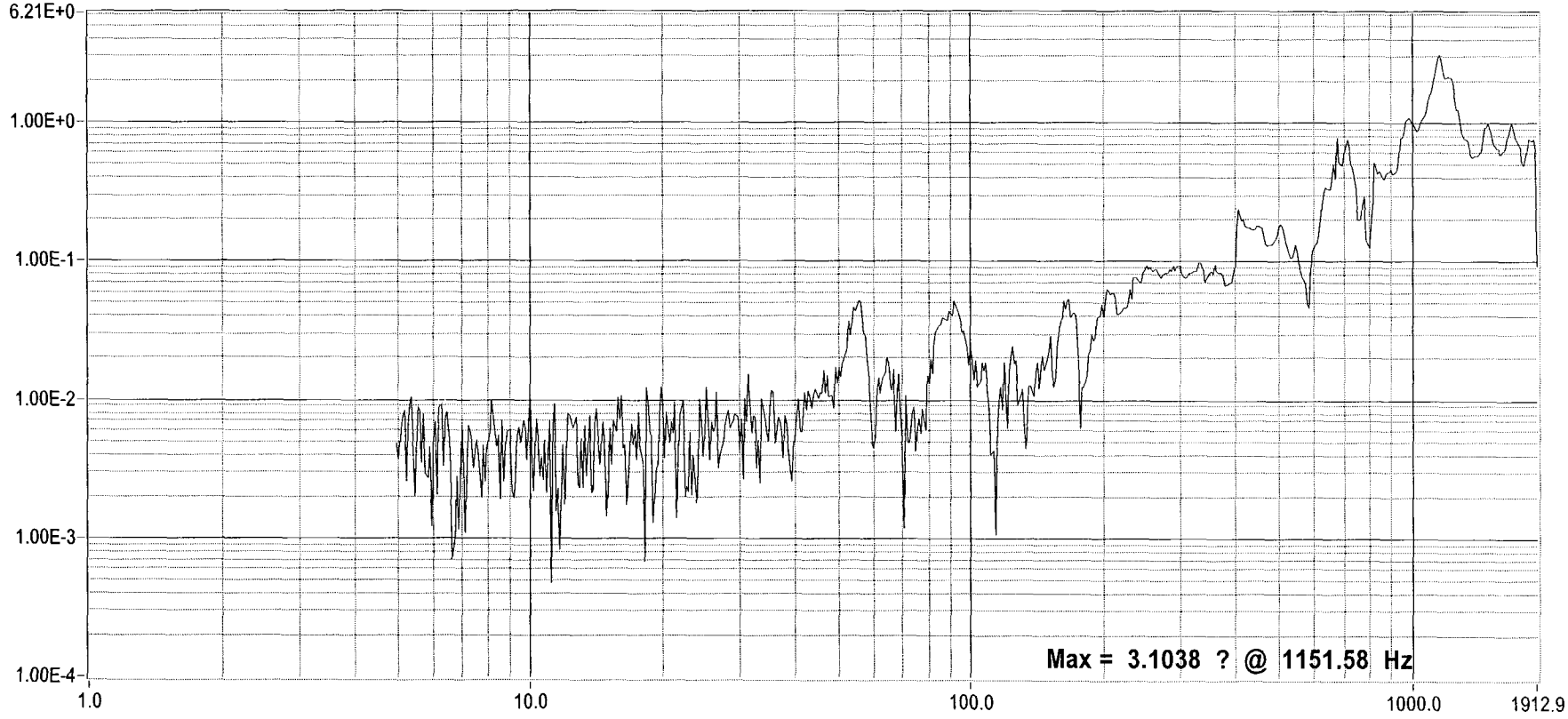
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 24 **Node Number:** 0024

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:56 AM

A9 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A9 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

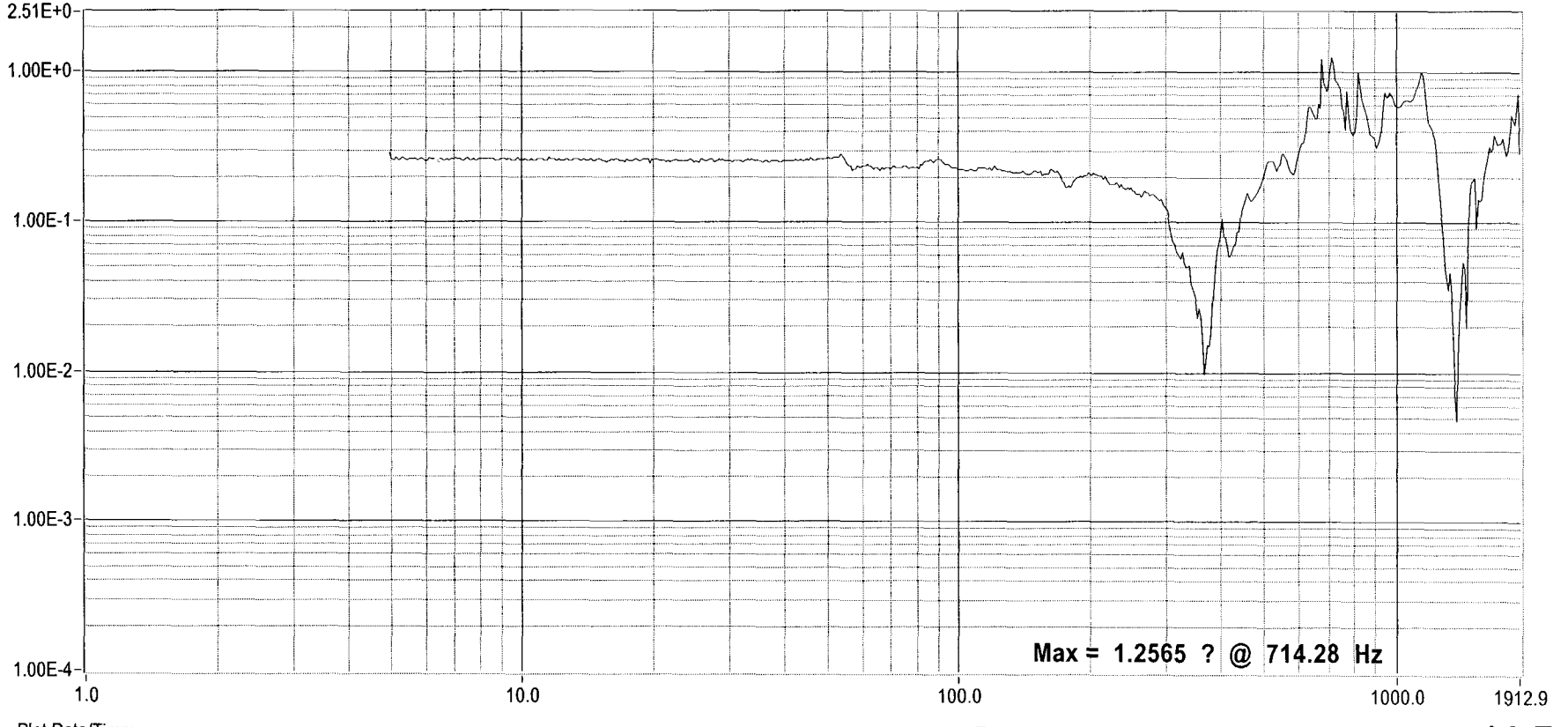
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 25 **Node Number:** 0025

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:56 AM

Frequency HZ

A9 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A10 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

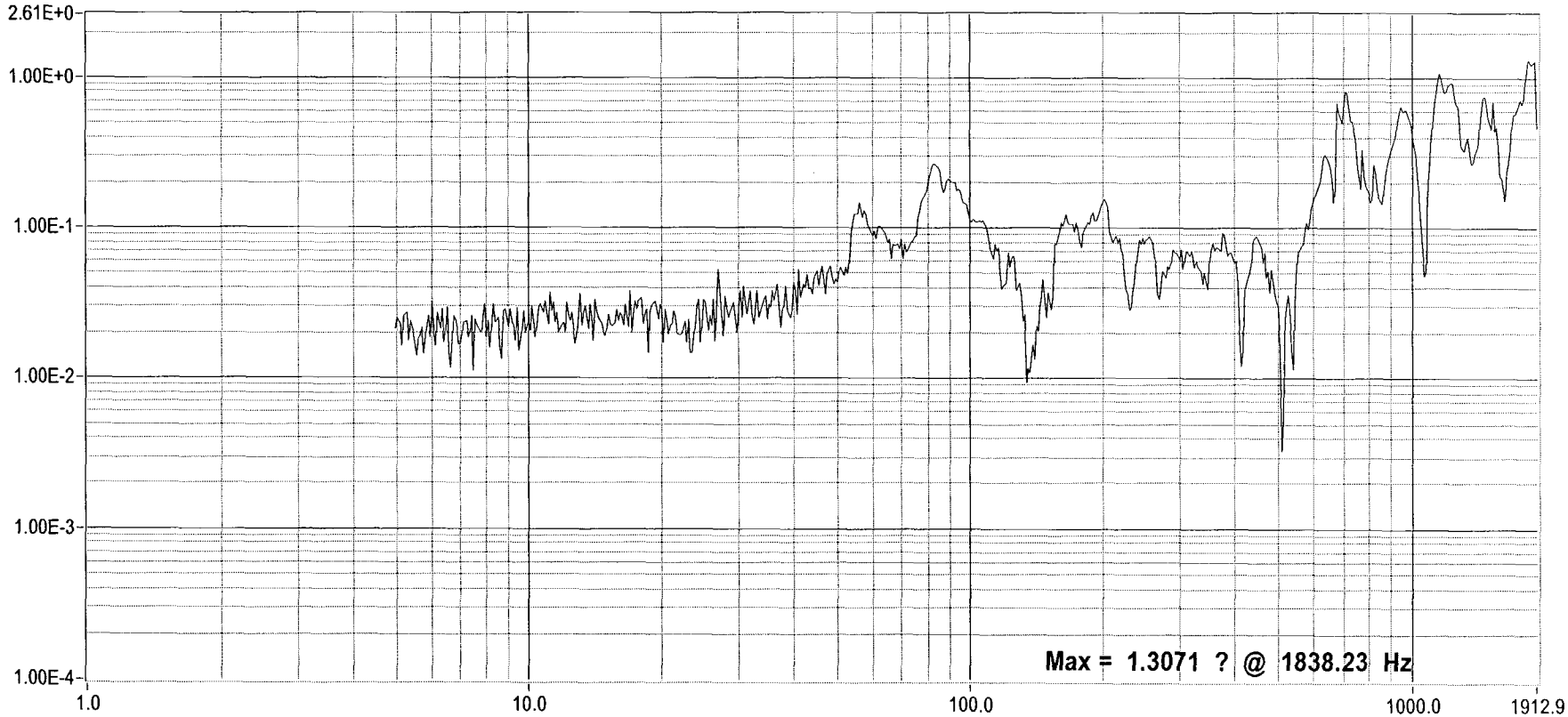
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 26 **Node Number:** 0026

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:56 AM

A10 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A10 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

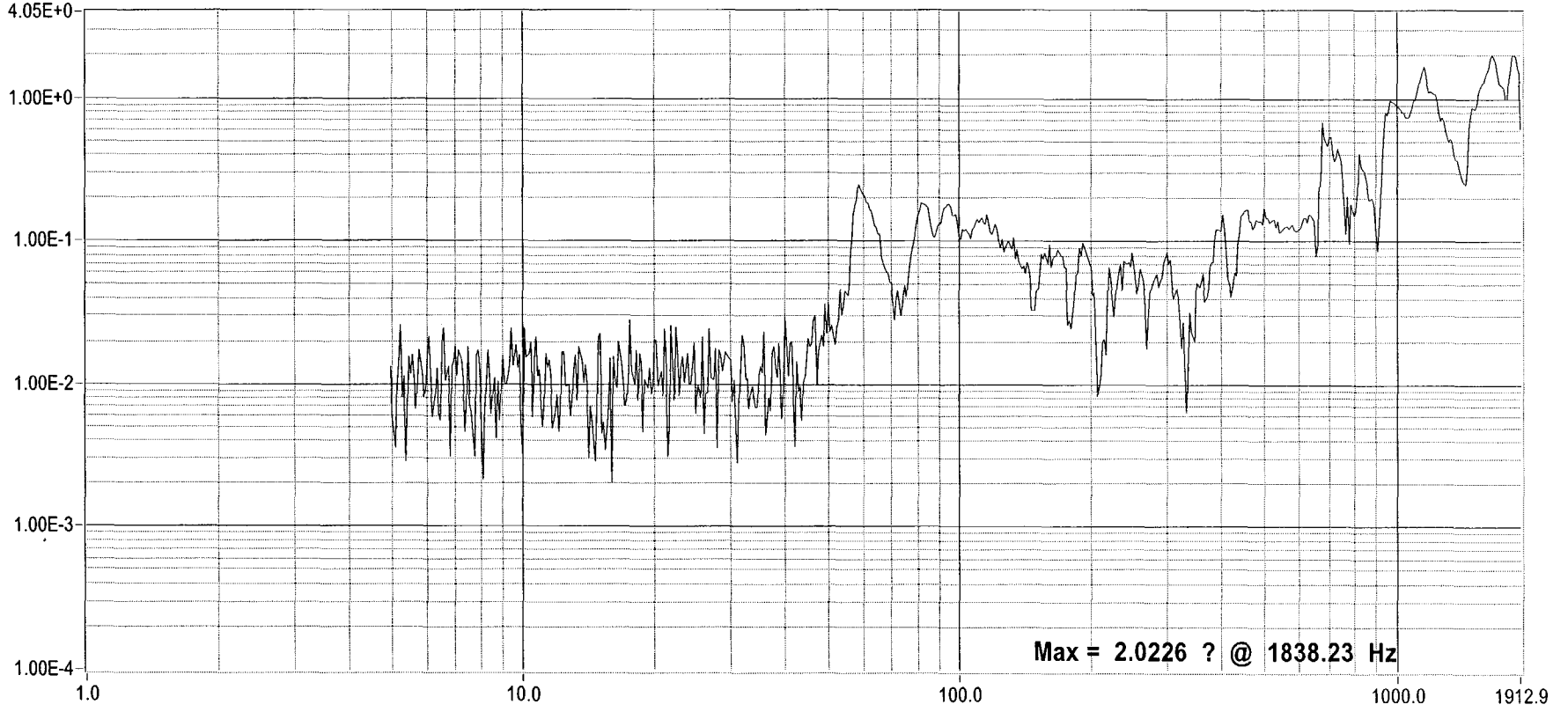
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 27 **Node Number:** 0027

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:57 AM

A10 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A10 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

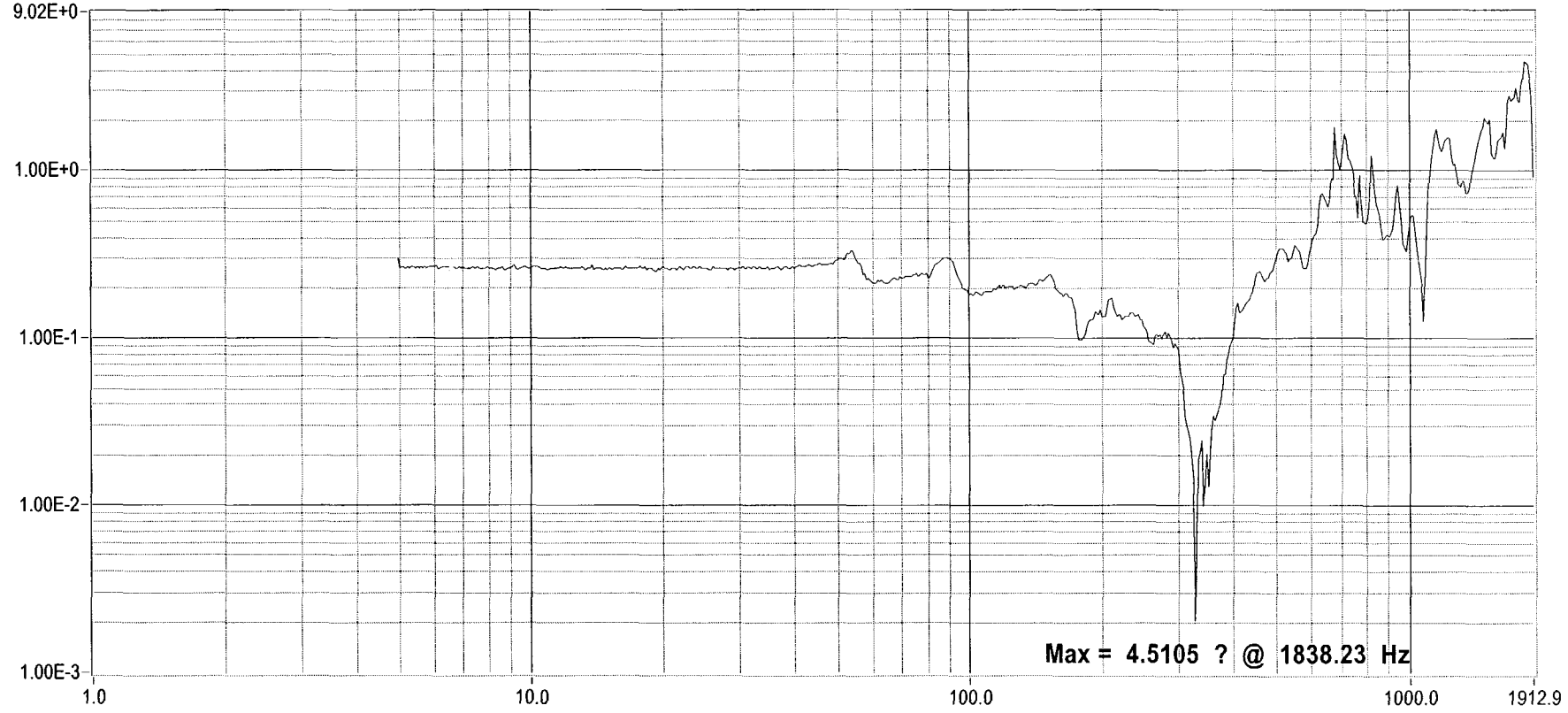
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 28 **Node Number:** 0028

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:57 AM

Frequency HZ

A10 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

DRIVE

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

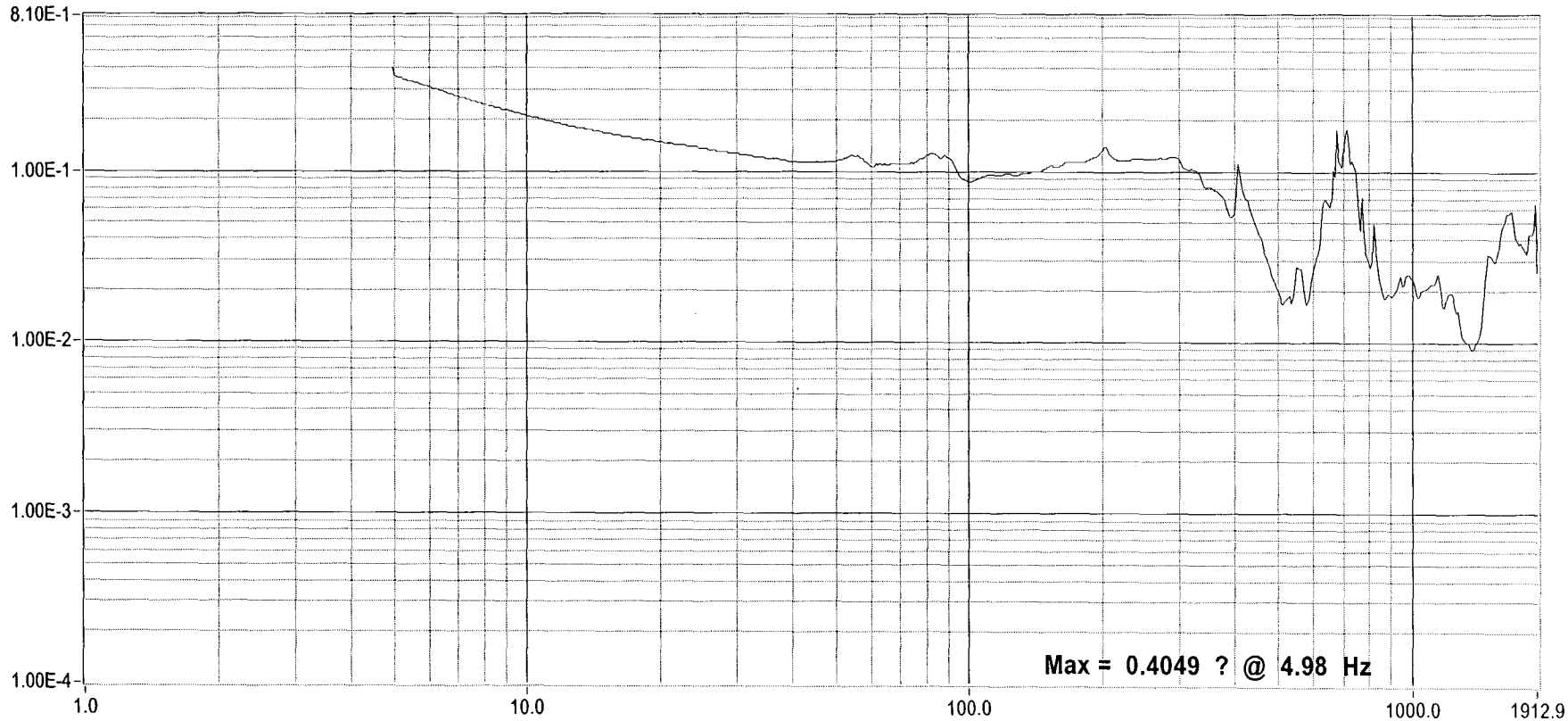
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 31 **Node Number:** 0031

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:57 AM

DRIVE

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

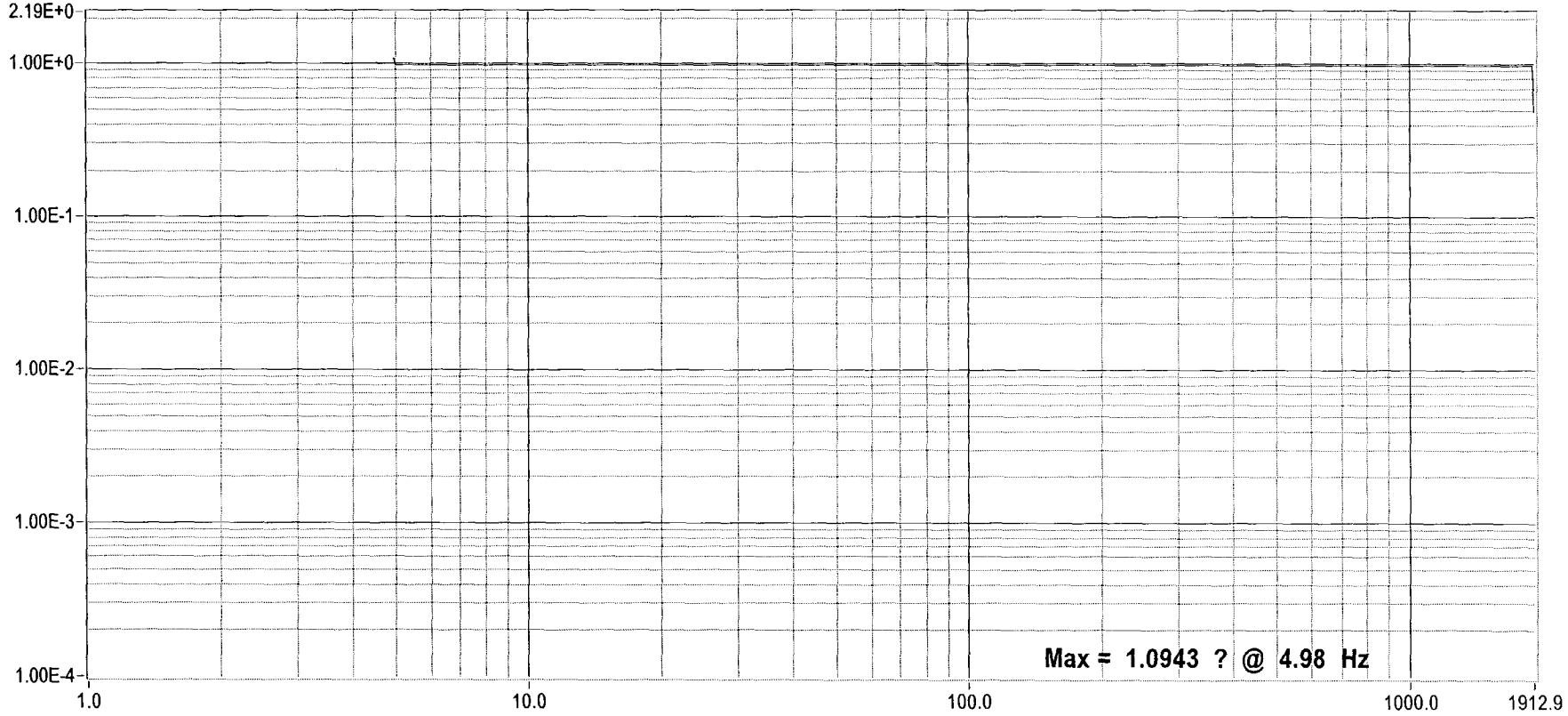
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 32 **Node Number:** 0032

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:57 AM

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A1X: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

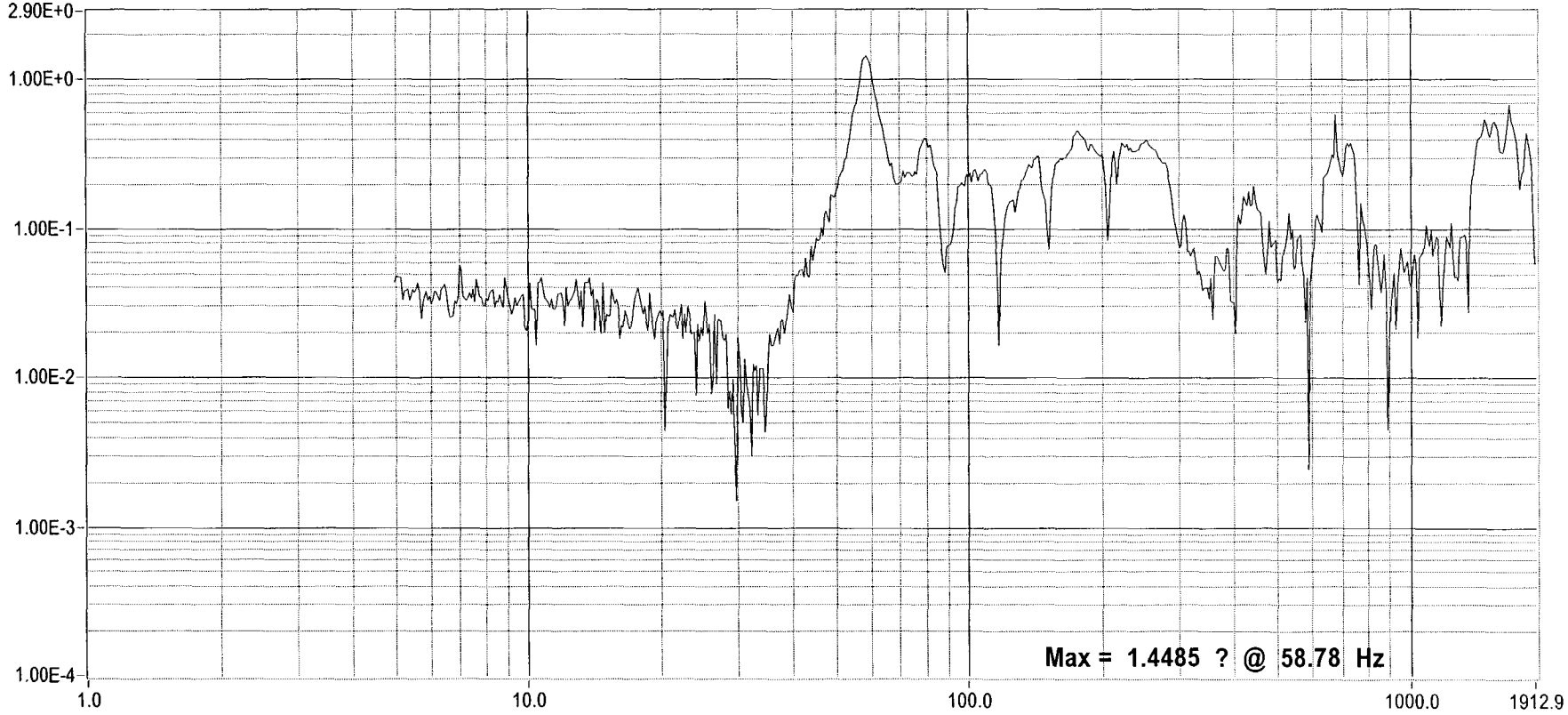
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 33 **Node Number:** 0033

Channel Description: BOX 3 CH 1 SN=AE71-1

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:58 AM

Frequency HZ

A1X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A1Y: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

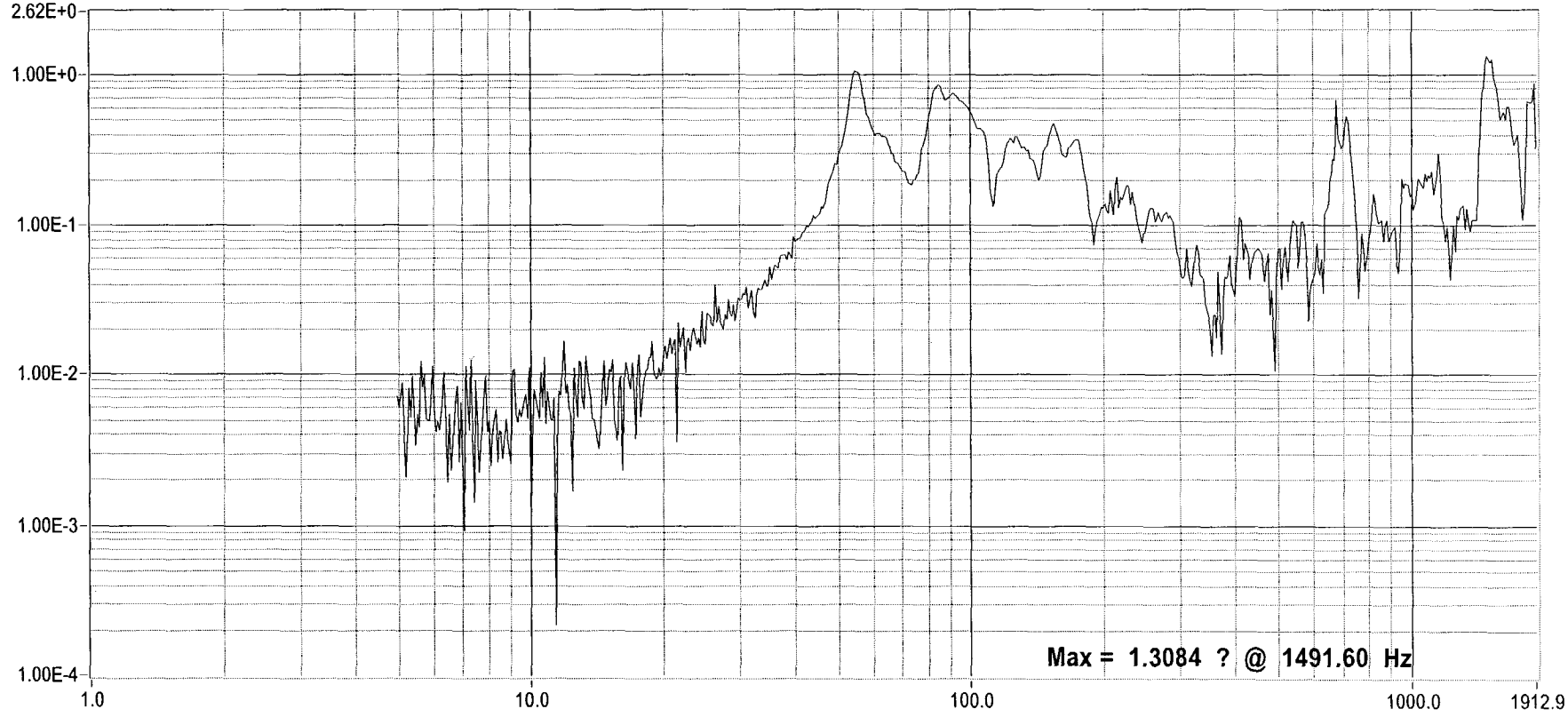
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 34 **Node Number:** 0034

Channel Description: BOX 3 CH 2 SN=AC40

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:58 AM

A1Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A1Z: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

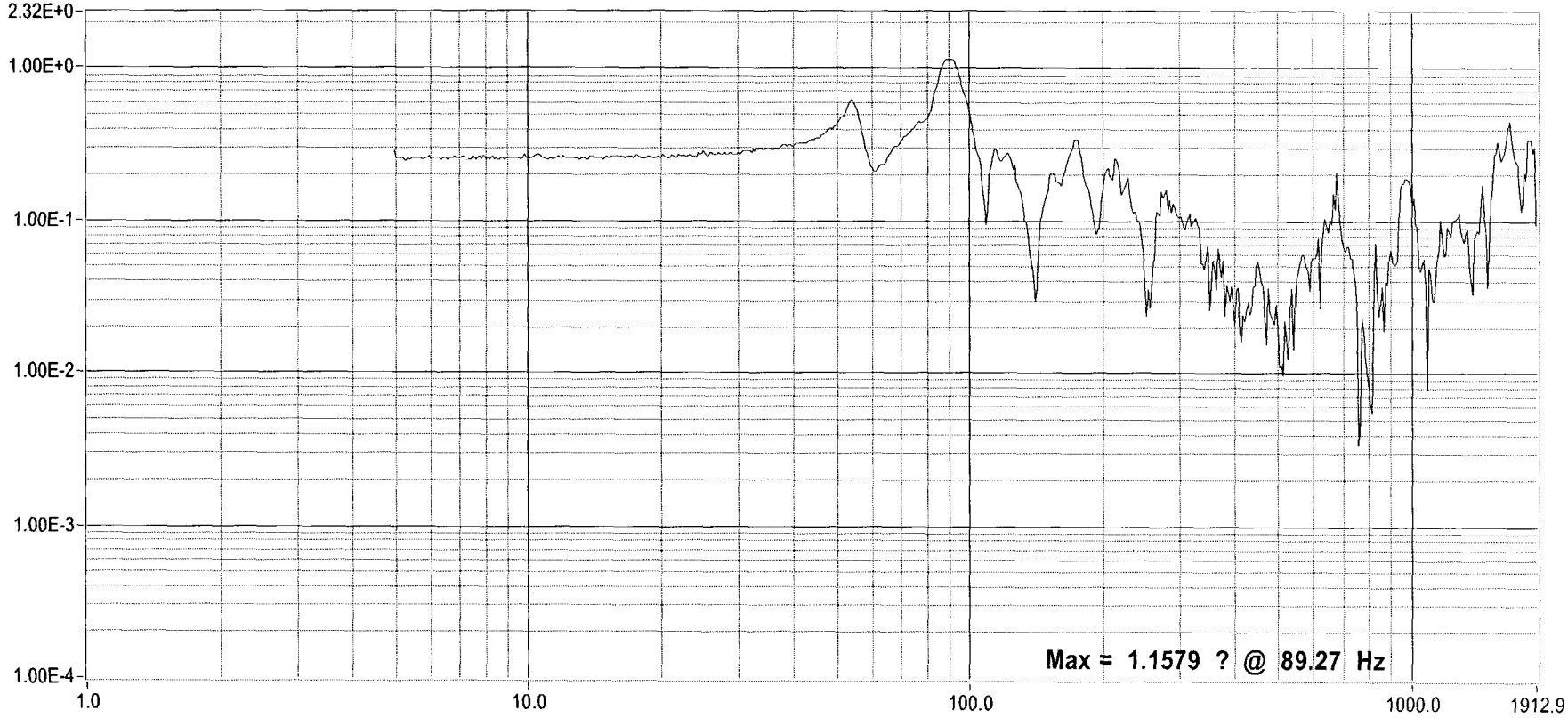
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 35 **Node Number:** 0035

Channel Description: BOX 3 CH 3 SN=AD72

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:58 AM

Frequency HZ

A1Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A1RX: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

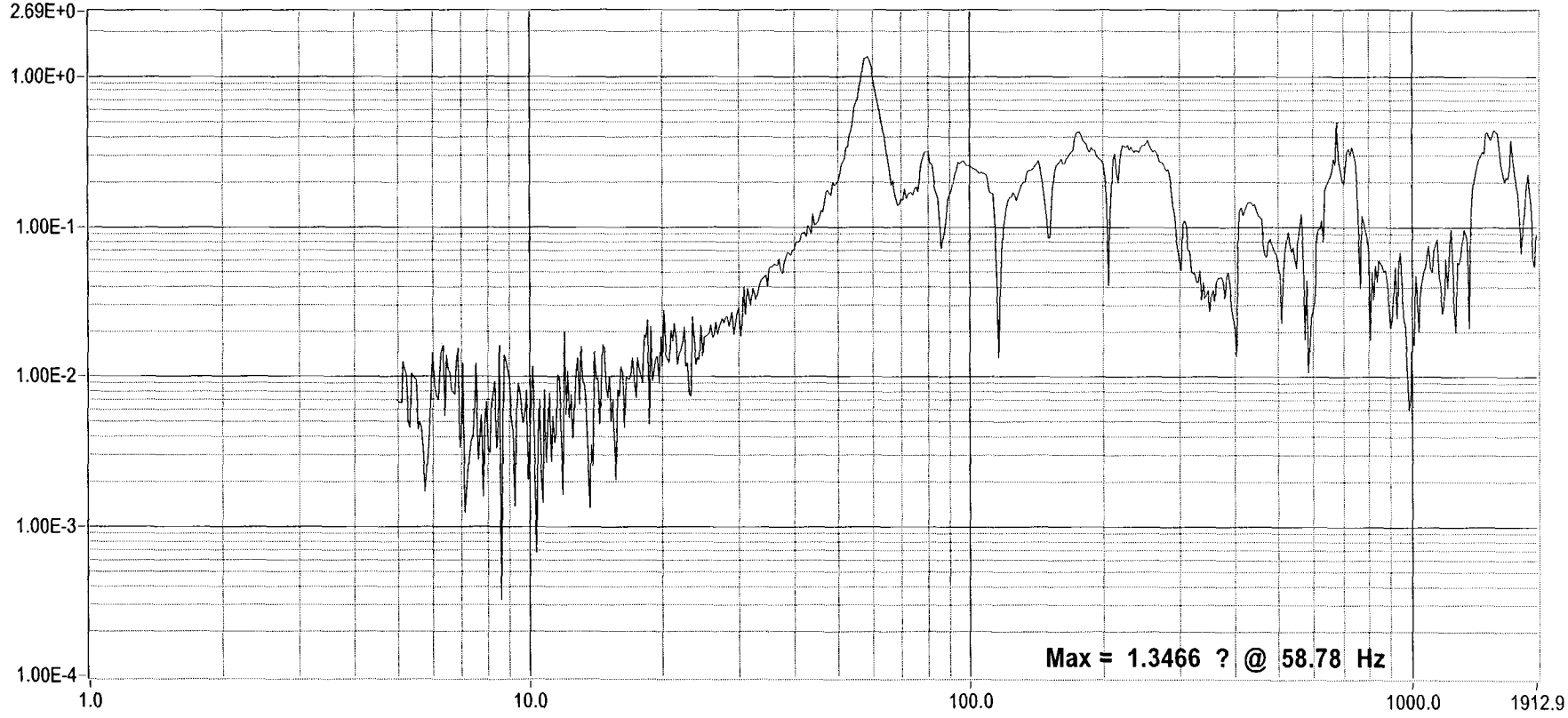
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 36 **Node Number:** 0036

Channel Description: BOX 3 CH 4 SN=AF35

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:58 AM

Frequency HZ

A1RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A1RY: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

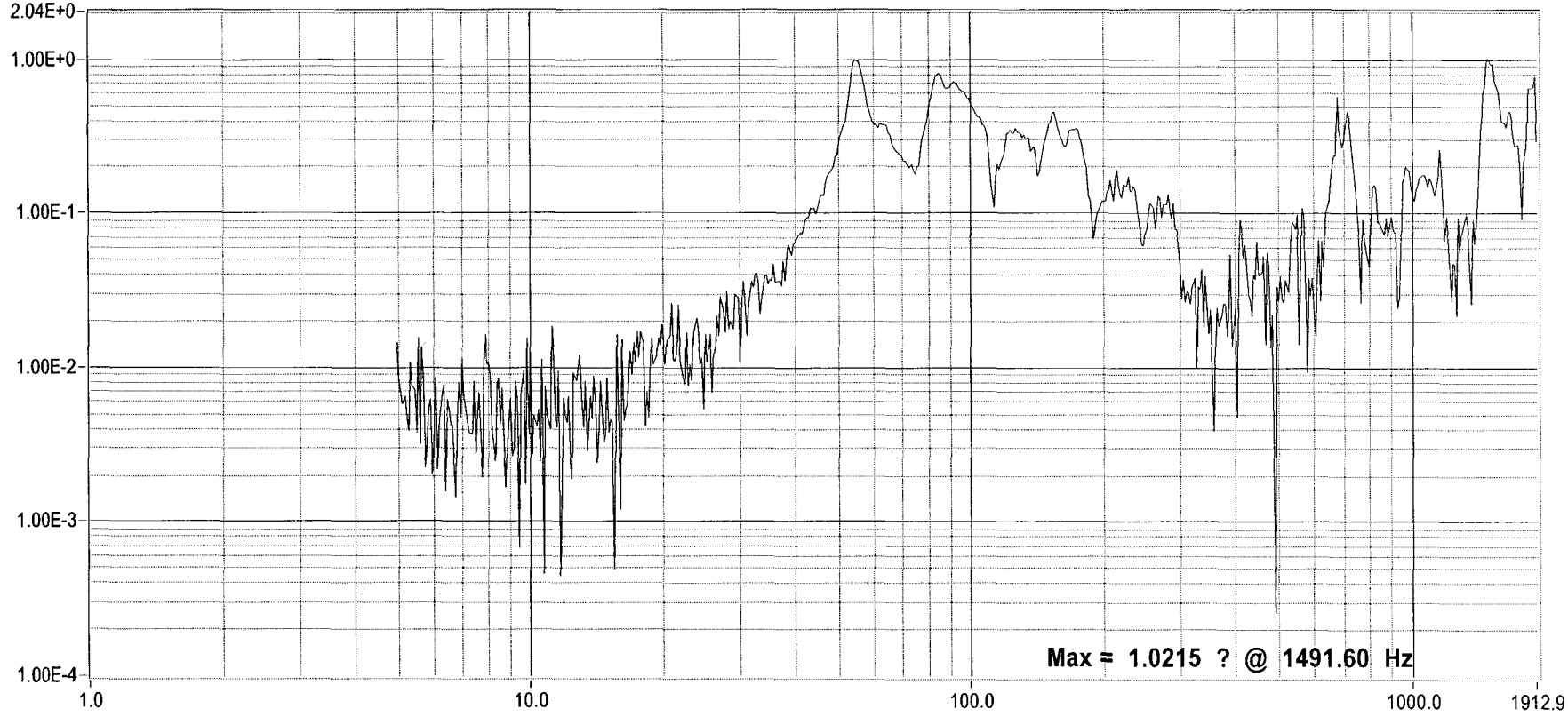
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 37 **Node Number:** 0037

Channel Description: BOX 3 CH 5 SN=AB88

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:59 AM

Frequency HZ

A1RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A1RZ: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

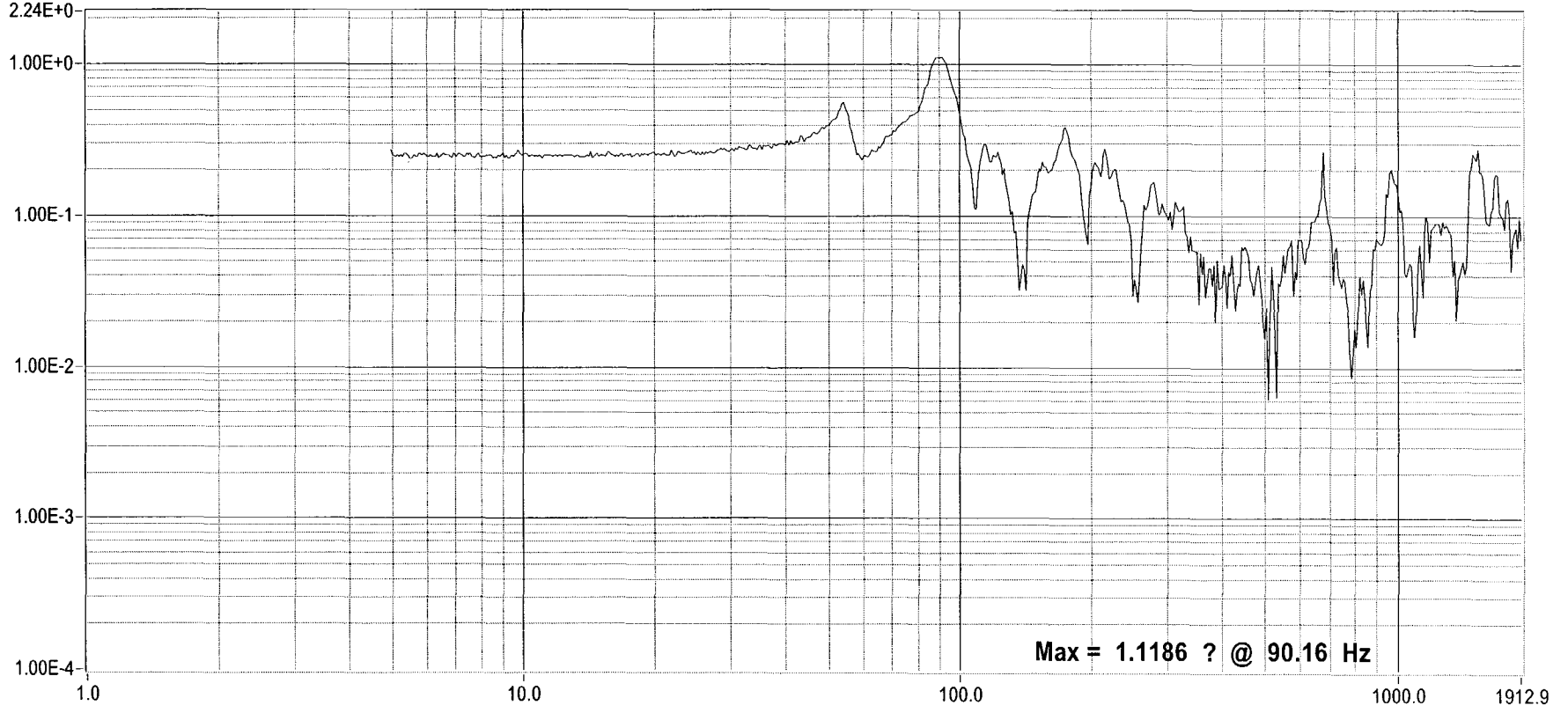
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 38 **Node Number:** 0038

Channel Description: BOX 3 CH 6 SN=AG51

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:59 AM

Frequency HZ

A1RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 39 **Node Number:** 0039

Channel Description: BOX 3 CH 7 SN=AK10

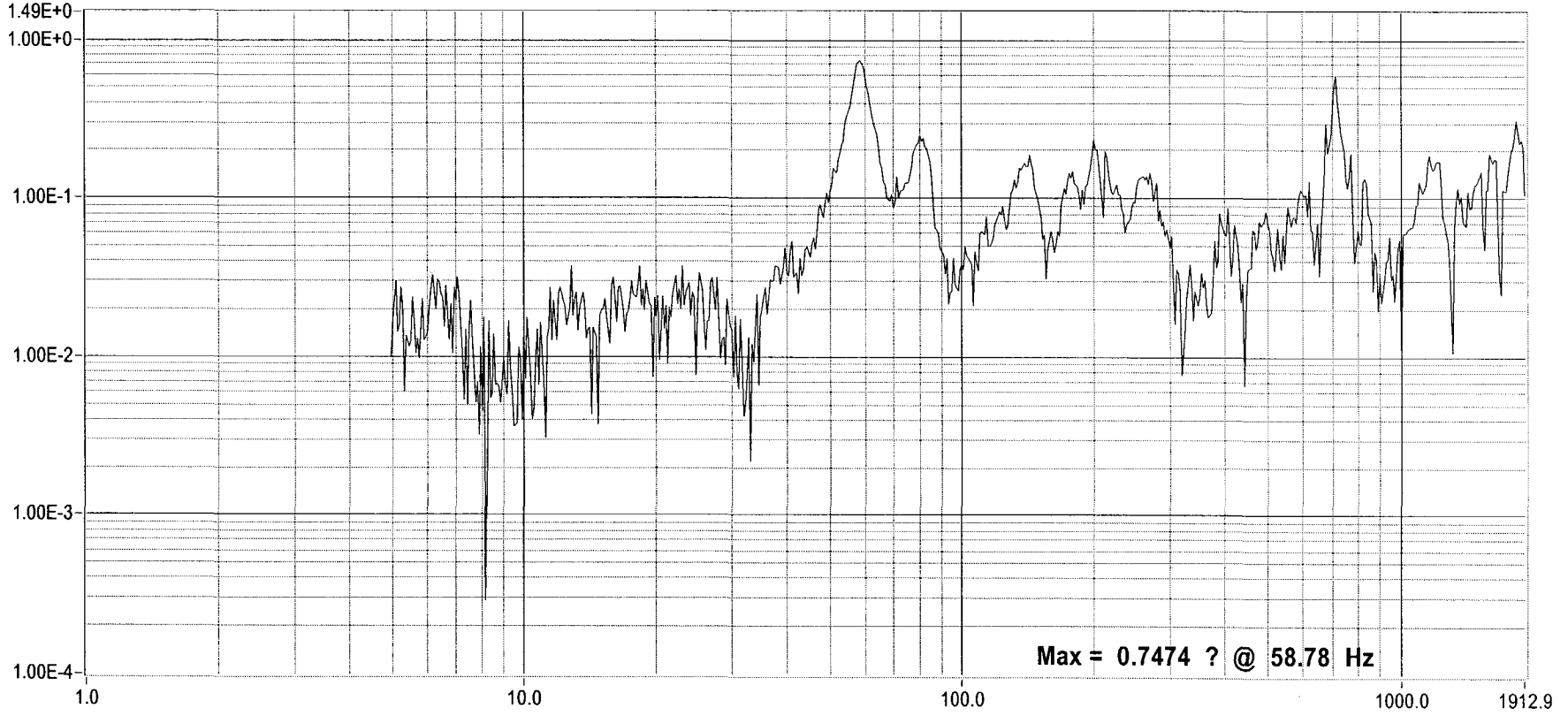
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 4:56:56

A2X: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 5:59 AM

Frequency HZ

A2X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 40 **Node Number:** 0040

Channel Description: BOX 3 CH 8 SN=AB06

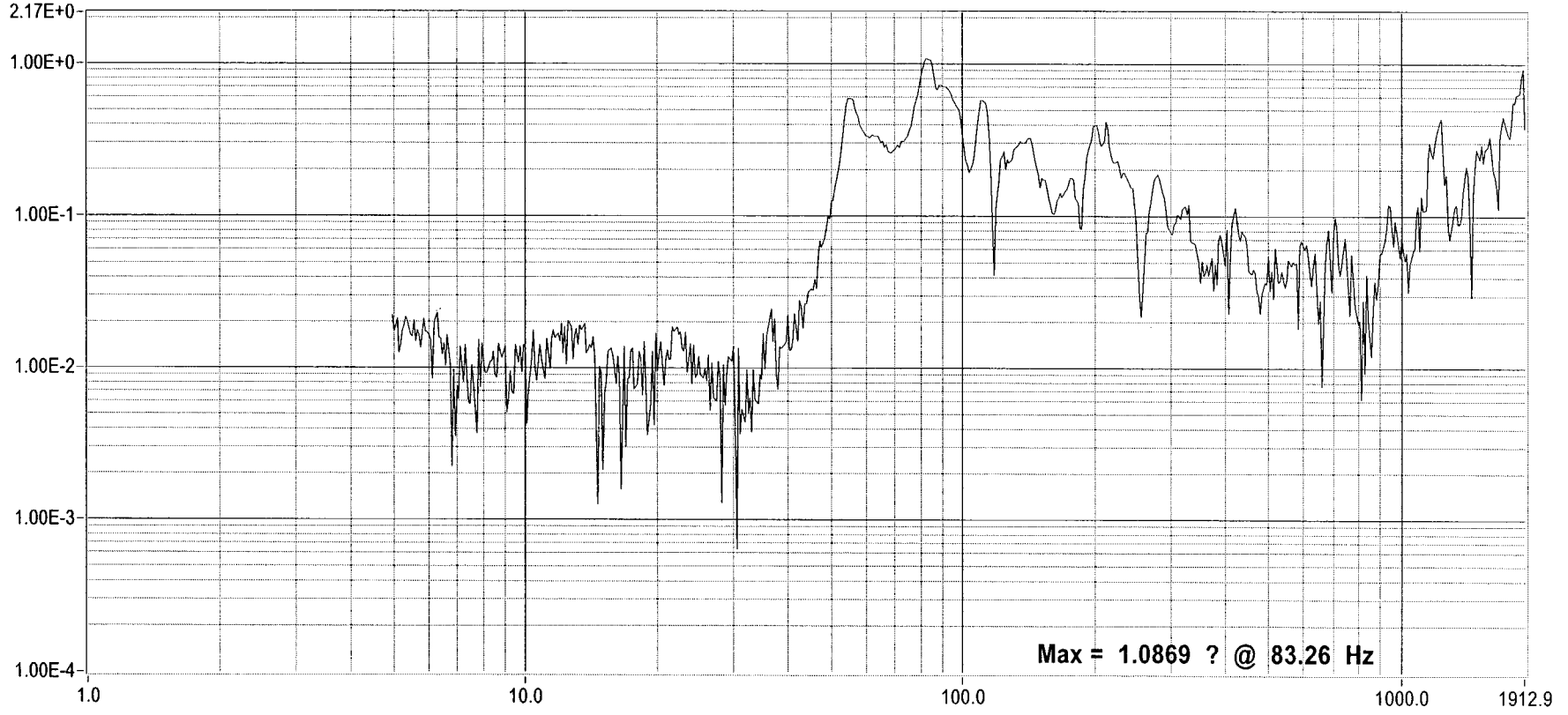
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 4:56:56

A2Y: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:00 AM

Frequency HZ

A2Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 41 **Node Number:** 0041

Channel Description: BOX 3 CH 9 SN=AF28

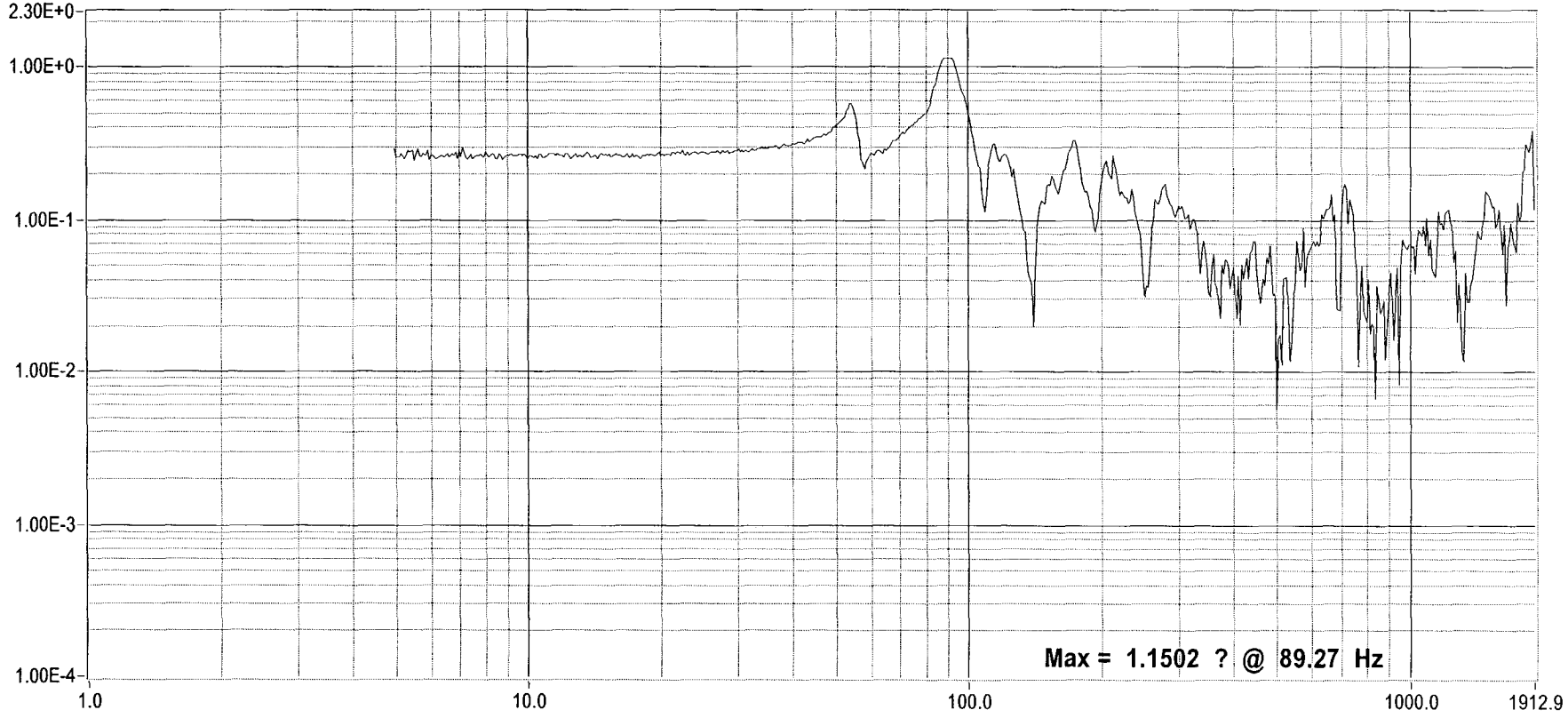
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A2Z: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:00 AM

Frequency HZ

A2Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A2RX: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

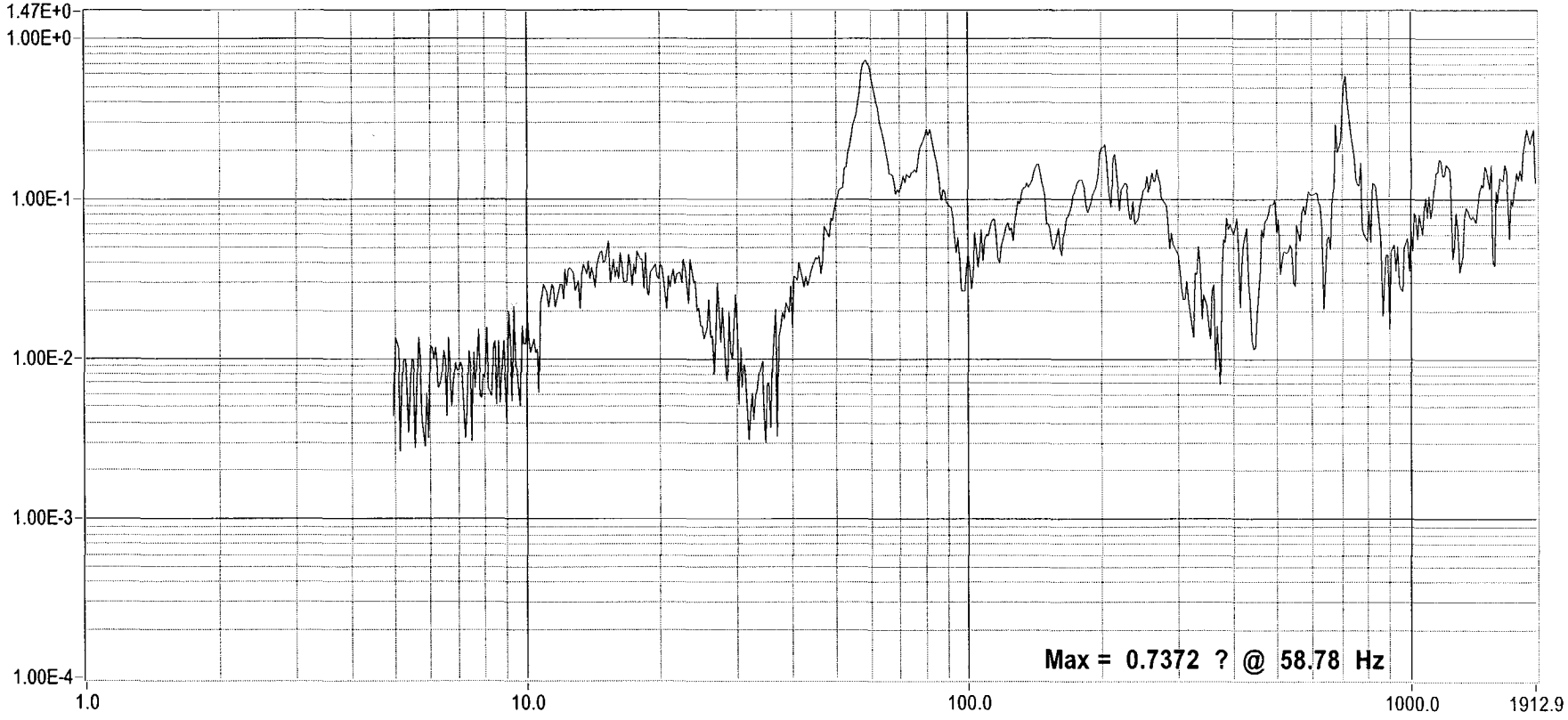
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 42 **Node Number:** 0042

Channel Description: BOX 3 CH 10 SN=AJ30

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:00 AM

Frequency HZ

A2RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 43 **Node Number:** 0043

Channel Description: BOX 3 CH 11 SN=AE60

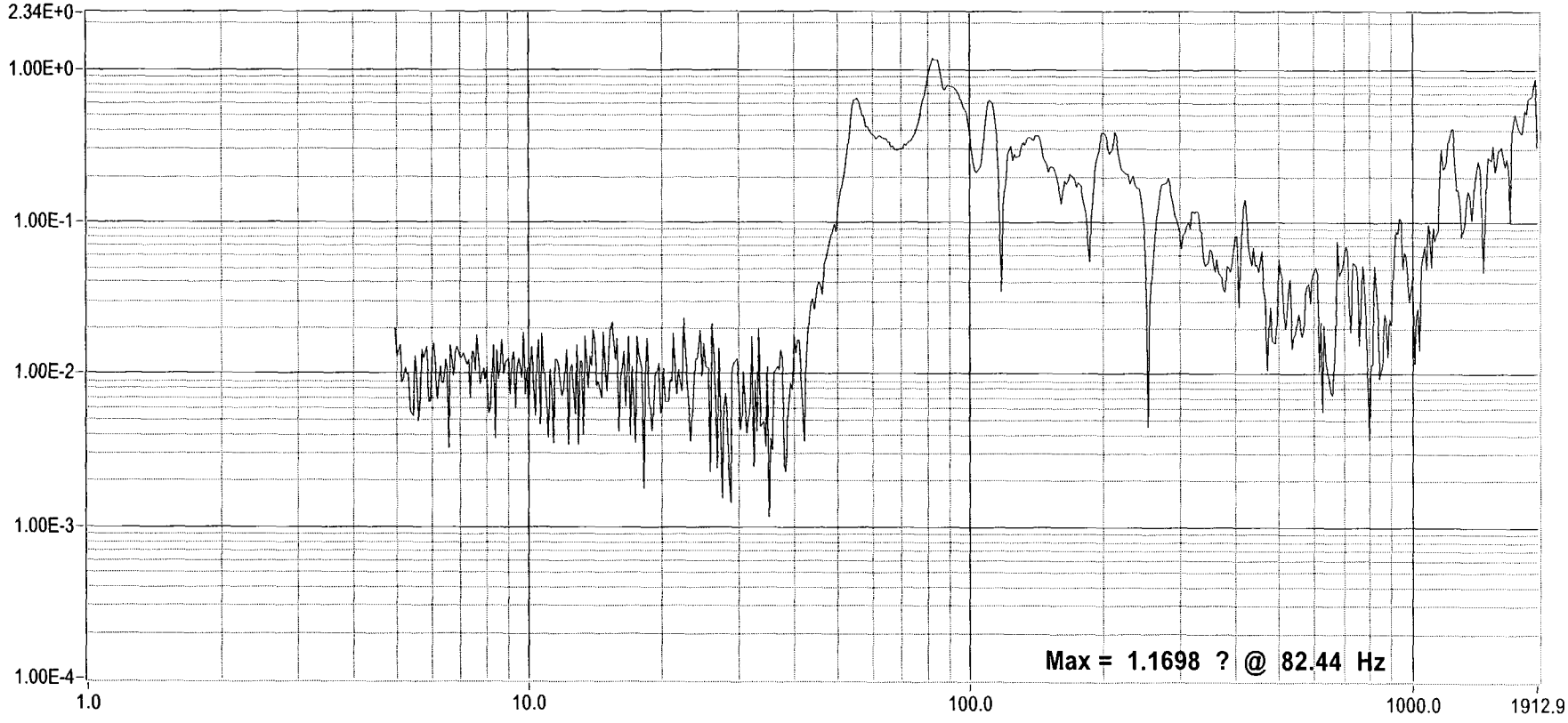
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A2RY: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:00 AM

Frequency HZ

A2RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A2RZ: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

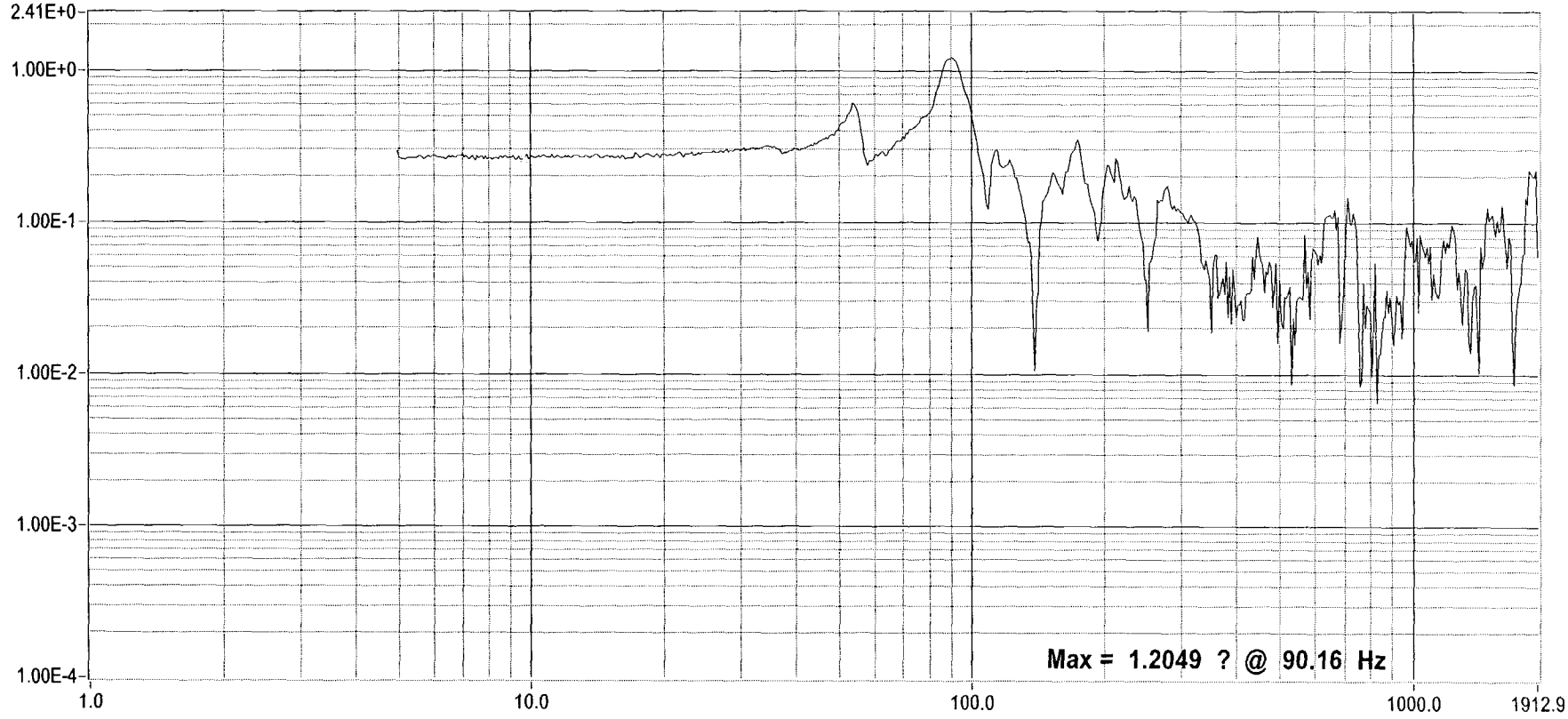
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 44 **Node Number:** 0044

Channel Description: BOX 3 CH 12 SN=AG01

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:01 AM

Frequency HZ

A2RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

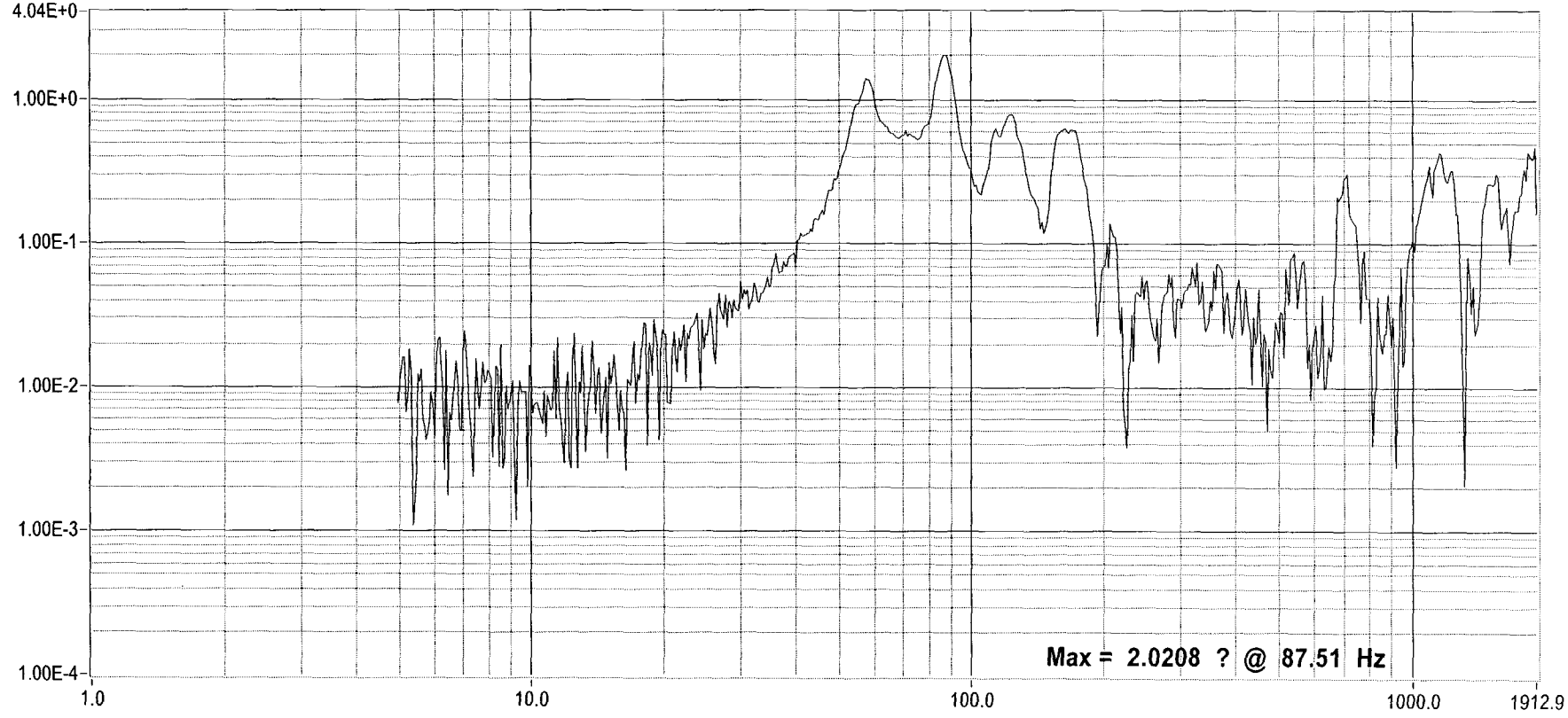
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:01 AM

Frequency HZ

A3X: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 46 **Node Number:** 0046

Channel Description: BOX 3 CH 14 SN=AG02

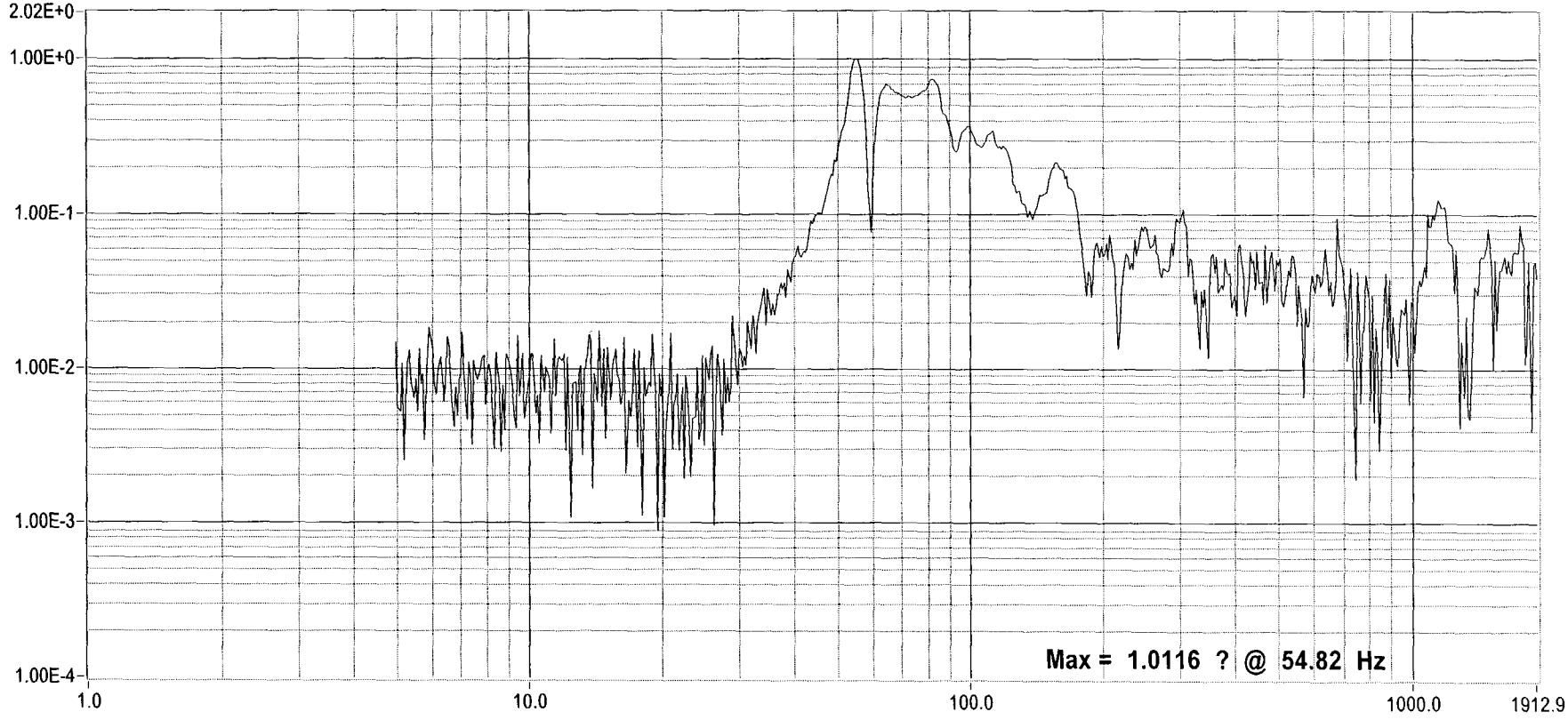
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A3Y: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:01 AM

Frequency HZ

A3Y: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 47 **Node Number:** 0047

Channel Description: BOX 3 CH 15 SN=BC12

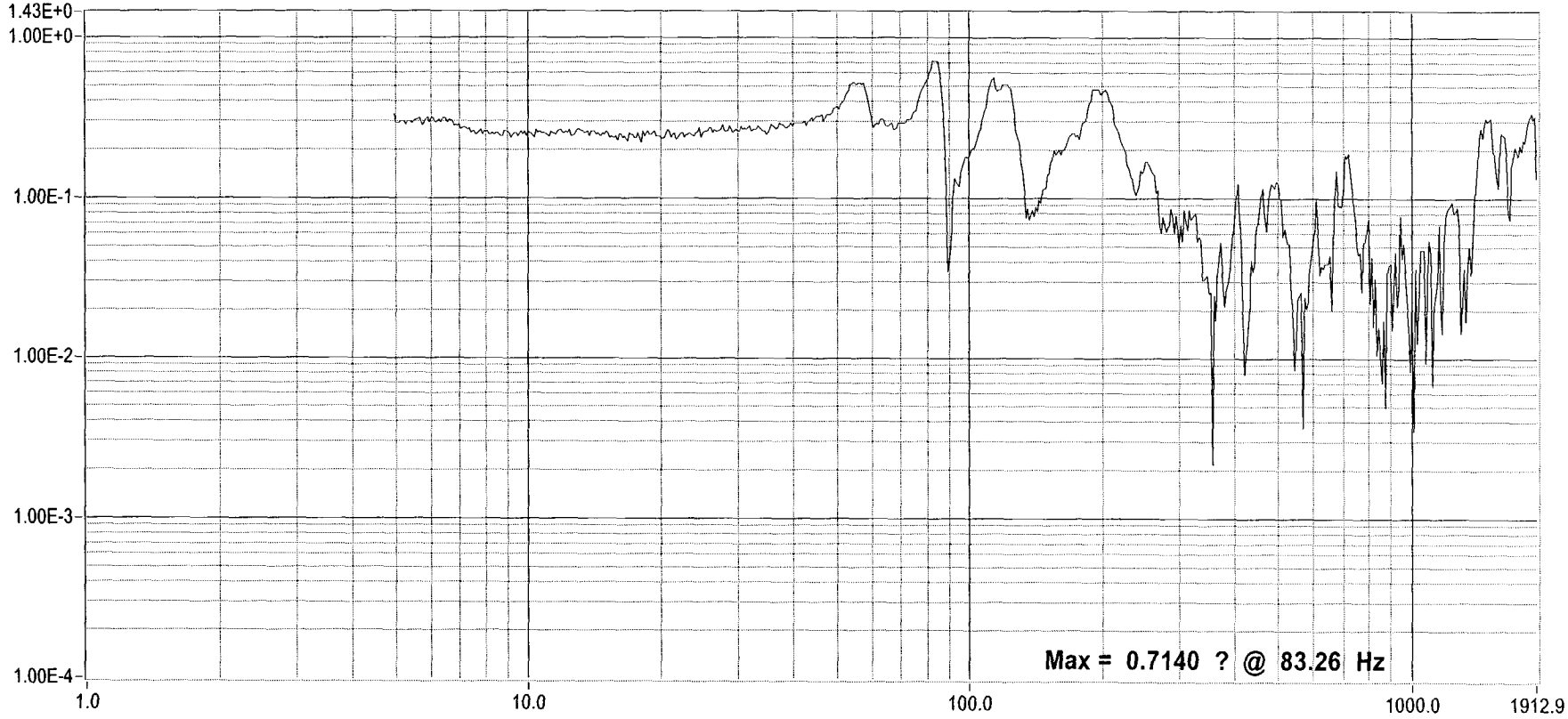
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A3Z: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:01 AM

Frequency HZ

A3Z: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 48 **Node Number:** 0048

Channel Description: BOX 3 CH 16 SN=AE43

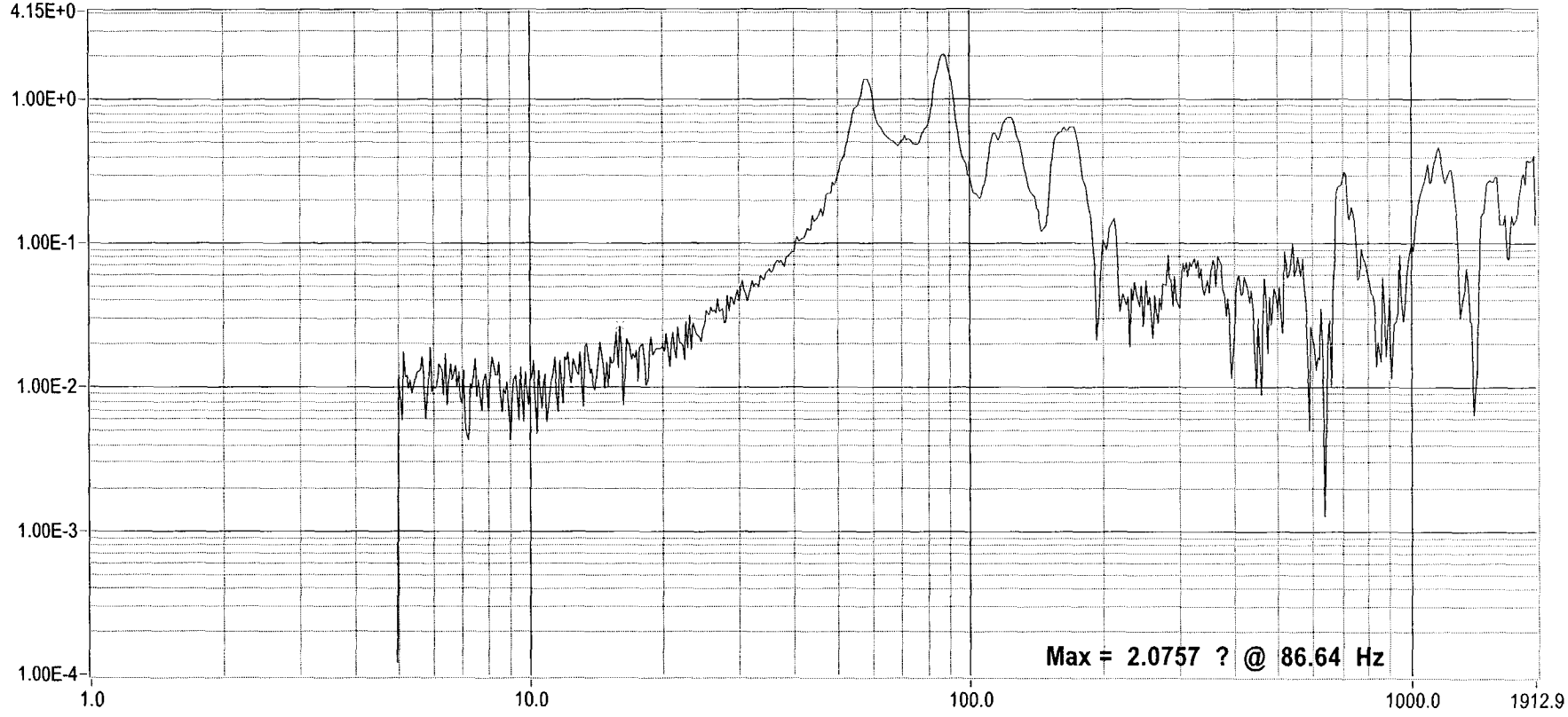
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A3RX: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:02 AM

Frequency HZ

A3RX: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 49 **Node Number:** 0049

Channel Description: BOX 4 CH 1 SN=AF57

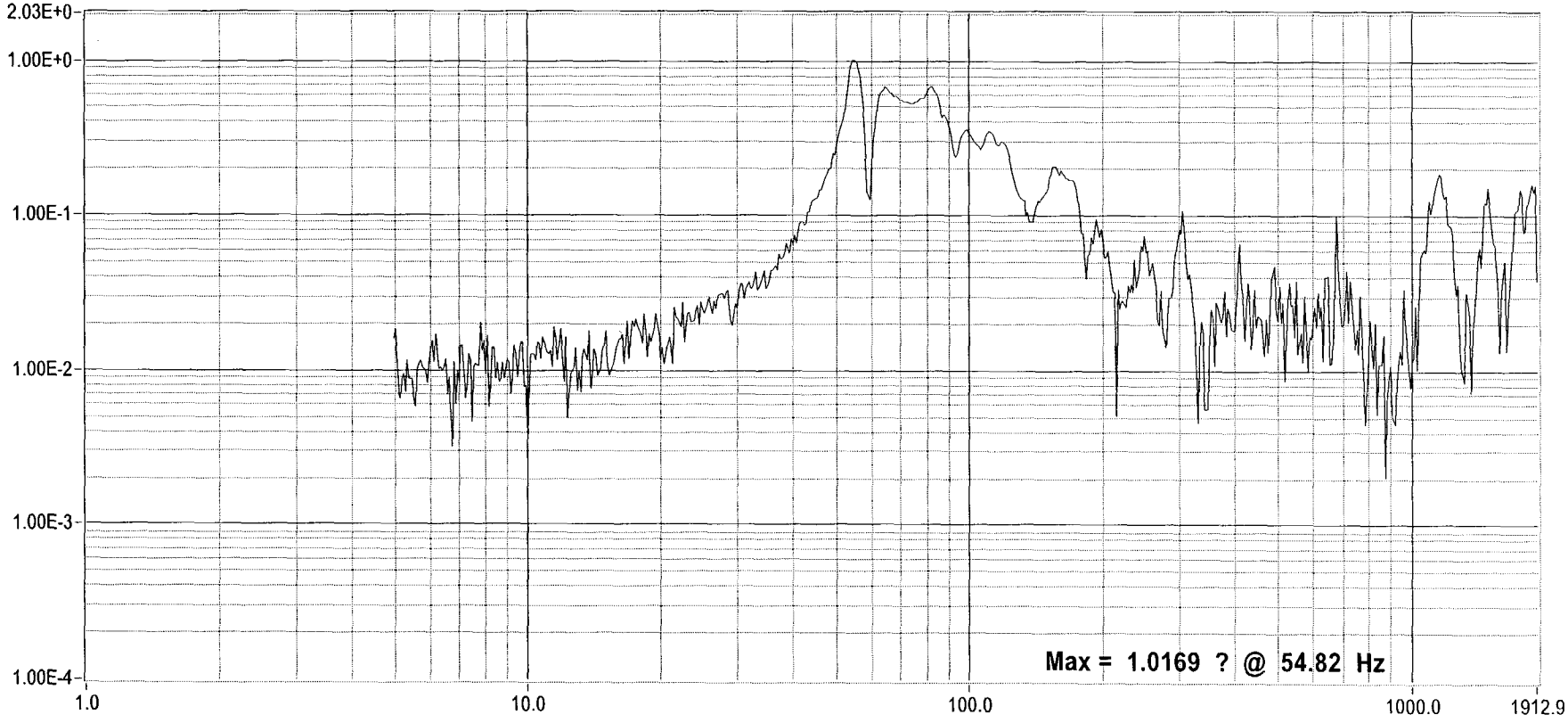
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 4:56:56

A3RY: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:02 AM

Frequency HZ

A3RY: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A3RZ: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

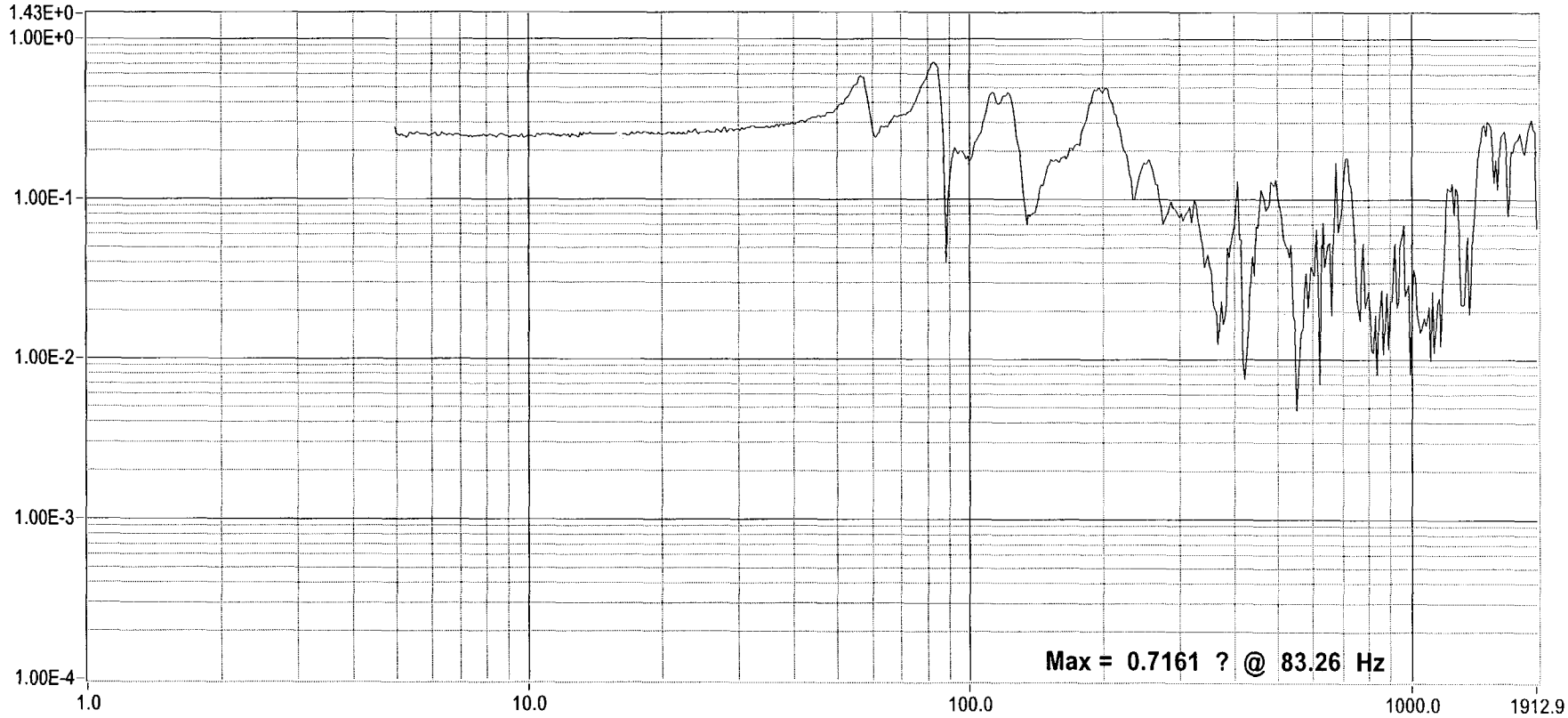
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 50 **Node Number:** 0050

Channel Description: BOX 4 CH 2 SN=AB65

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:02 AM

Frequency HZ

A3RZ: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A4X: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

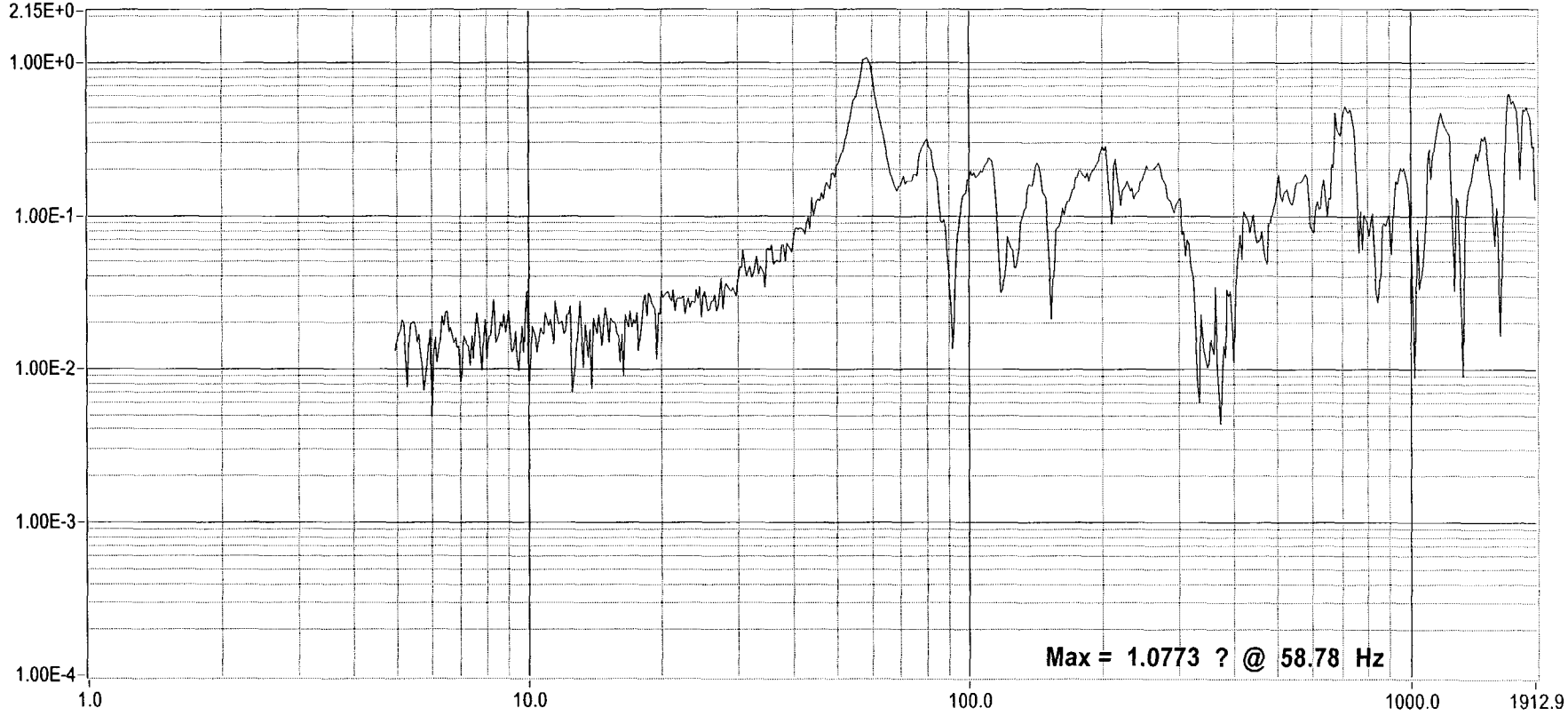
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 51 **Node Number:** 0051

Channel Description: BOX 4 CH 3 SN=AH55

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:03 AM

Frequency HZ

A4X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 52 **Node Number:** 0052

Channel Description: BOX 4 CH 4 SN=AJ95

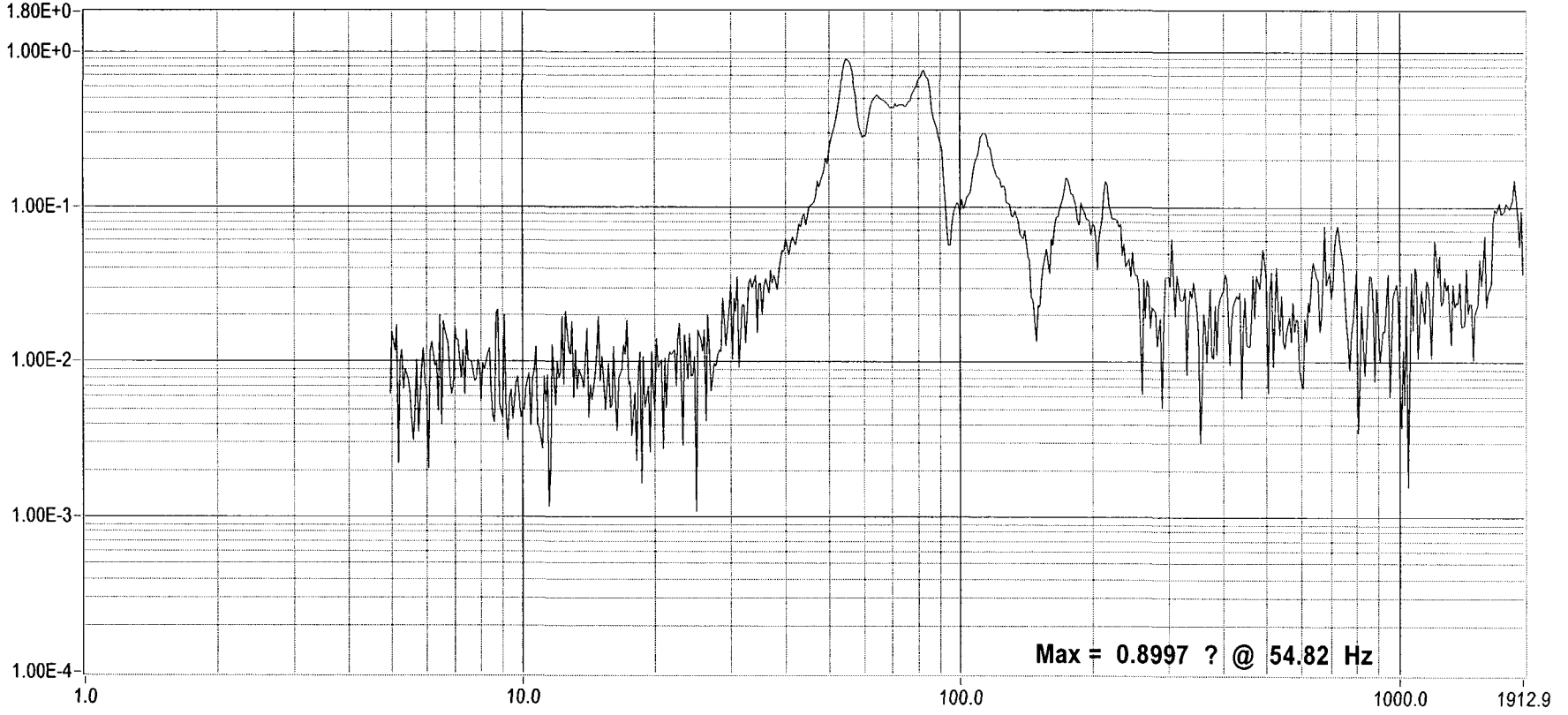
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A4Y: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:03 AM

Frequency HZ

A4Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 53 **Node Number:** 0053

Channel Description: BOX 4 CH 5 SN=AB55

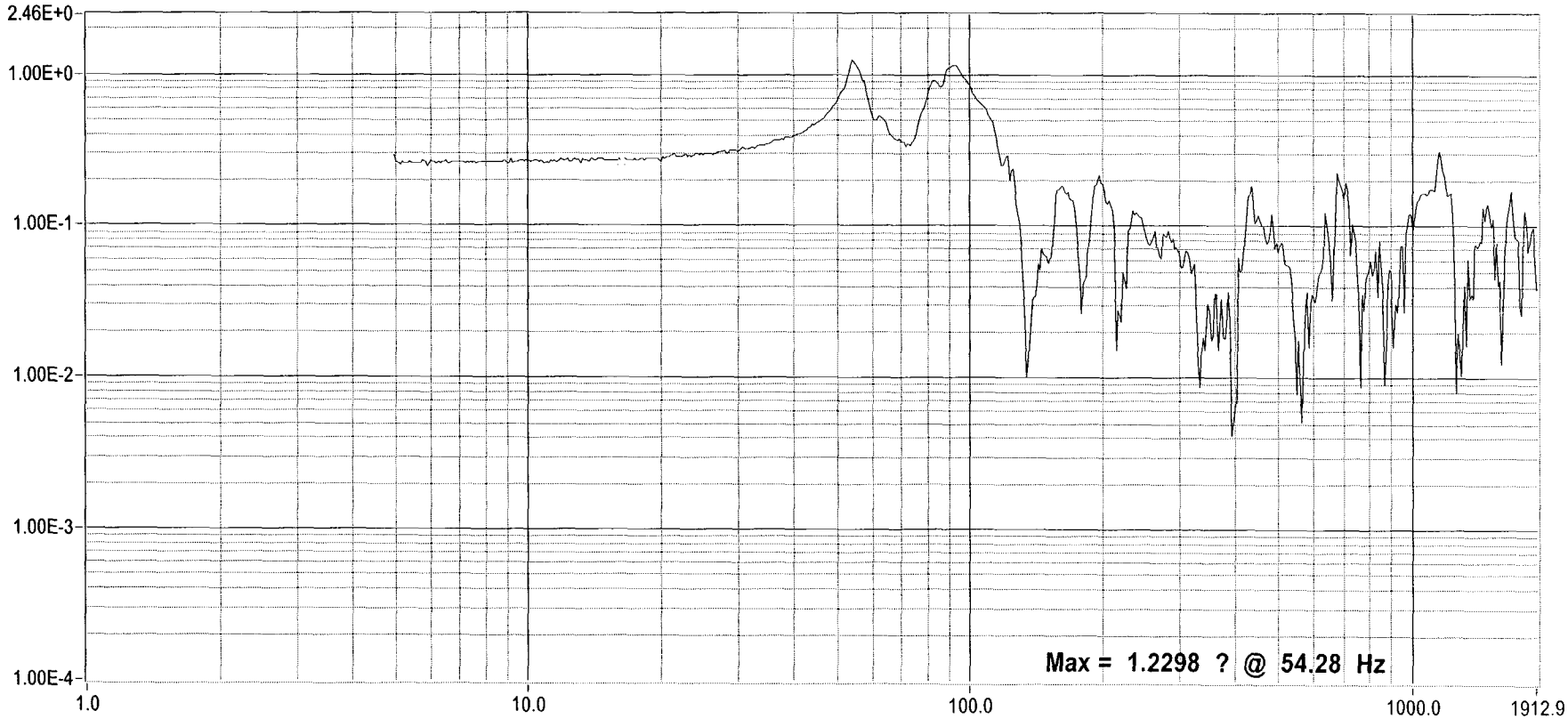
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A4Z: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:03 AM

Frequency HZ

A4Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

A4RX: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

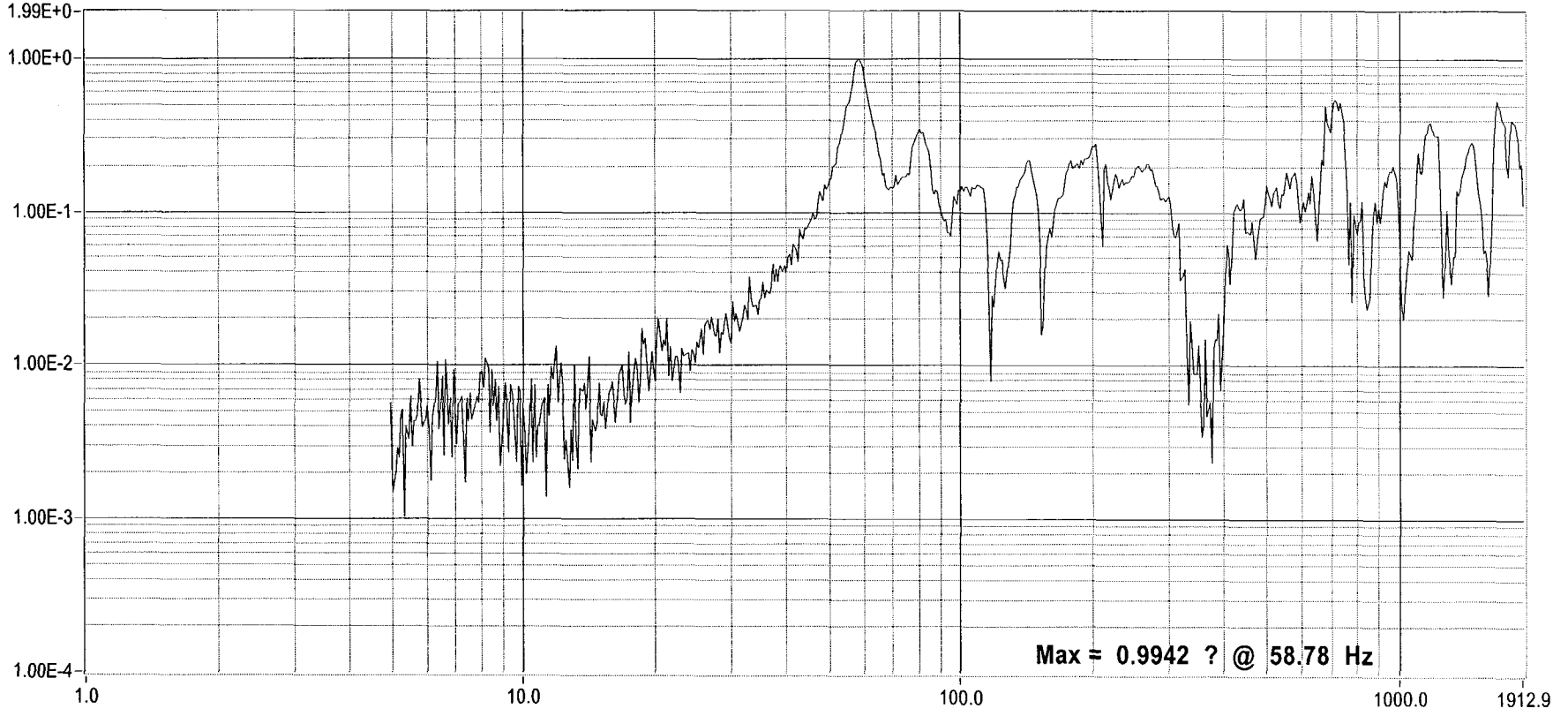
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 54 **Node Number:** 0054

Channel Description: BOX 4 CH 6 SN=AF10

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:03 AM

Frequency HZ

A4RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 55 **Node Number:** 0055

Channel Description: BOX 4 CH 7 SN=AF56

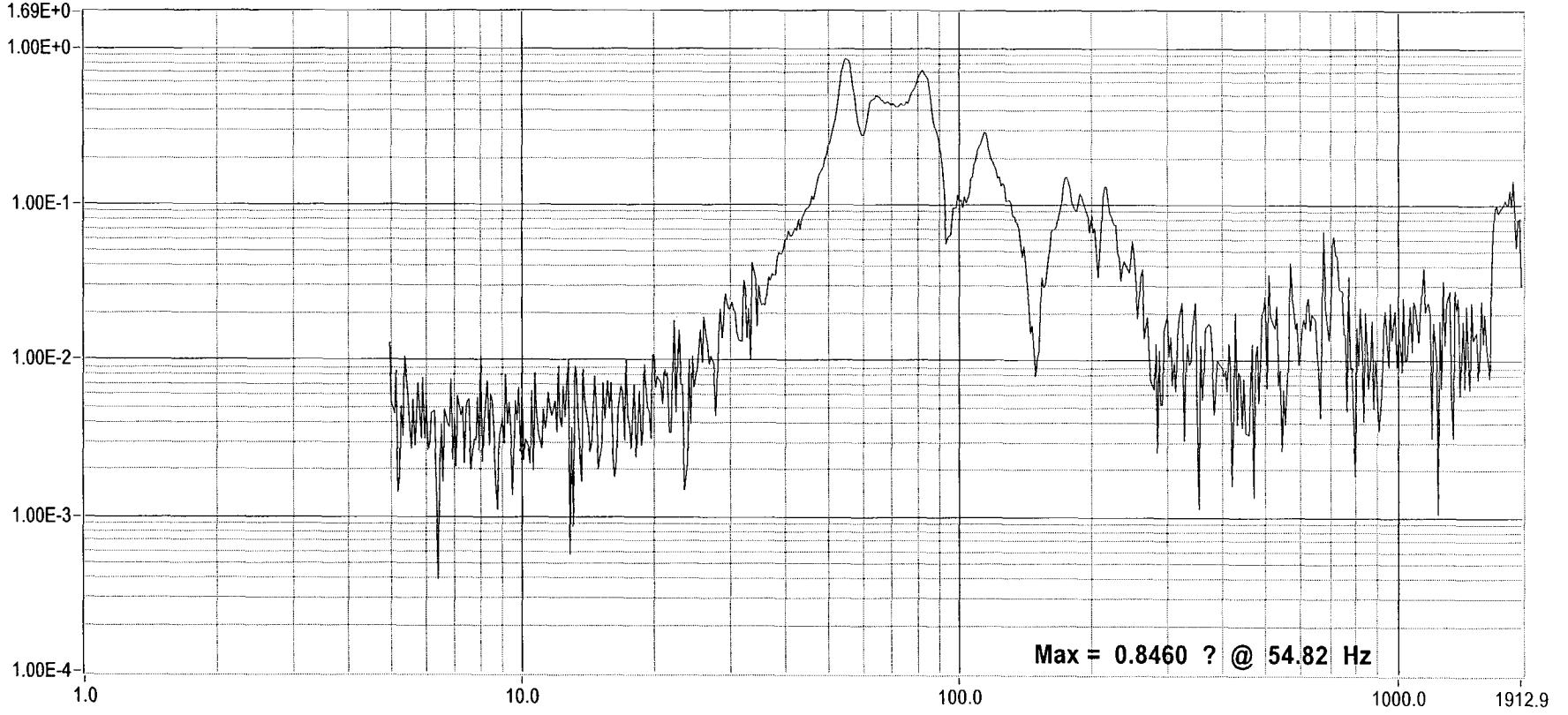
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 23-Jun-2002 4:56:56

A4RY: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP



Plot Date/Time: 6/23/02 @ 6:04 AM

Frequency HZ

A4RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

Channel #: 56 **Node Number:** 0056

Channel Description: BOX 4 CH 8 SN=AD53

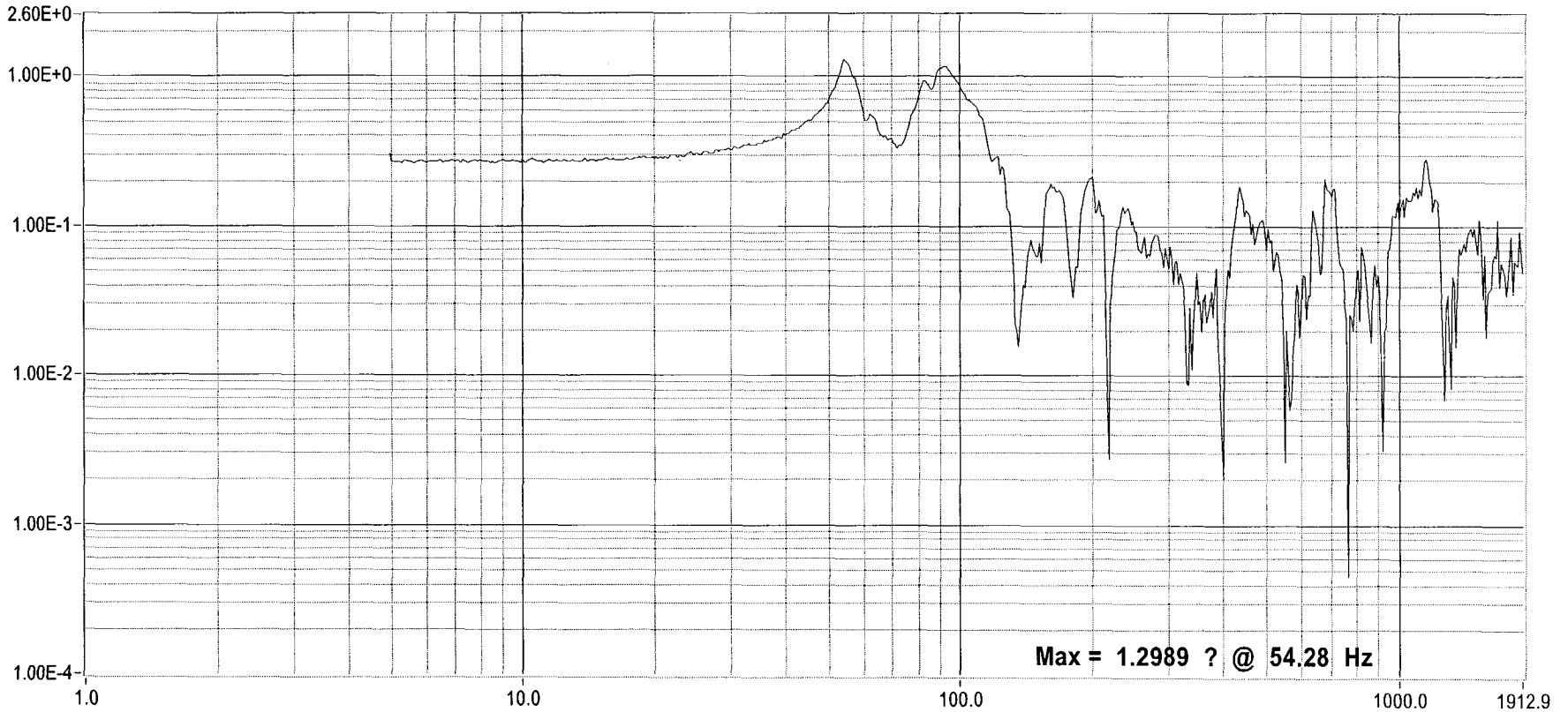
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 23-Jun-2002 4:56:56

A4RZ: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:04 AM

A4RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 23-Jun-2002 4:56:56

F1: FLY AWAY

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062303

Part Number/ID: Y4011

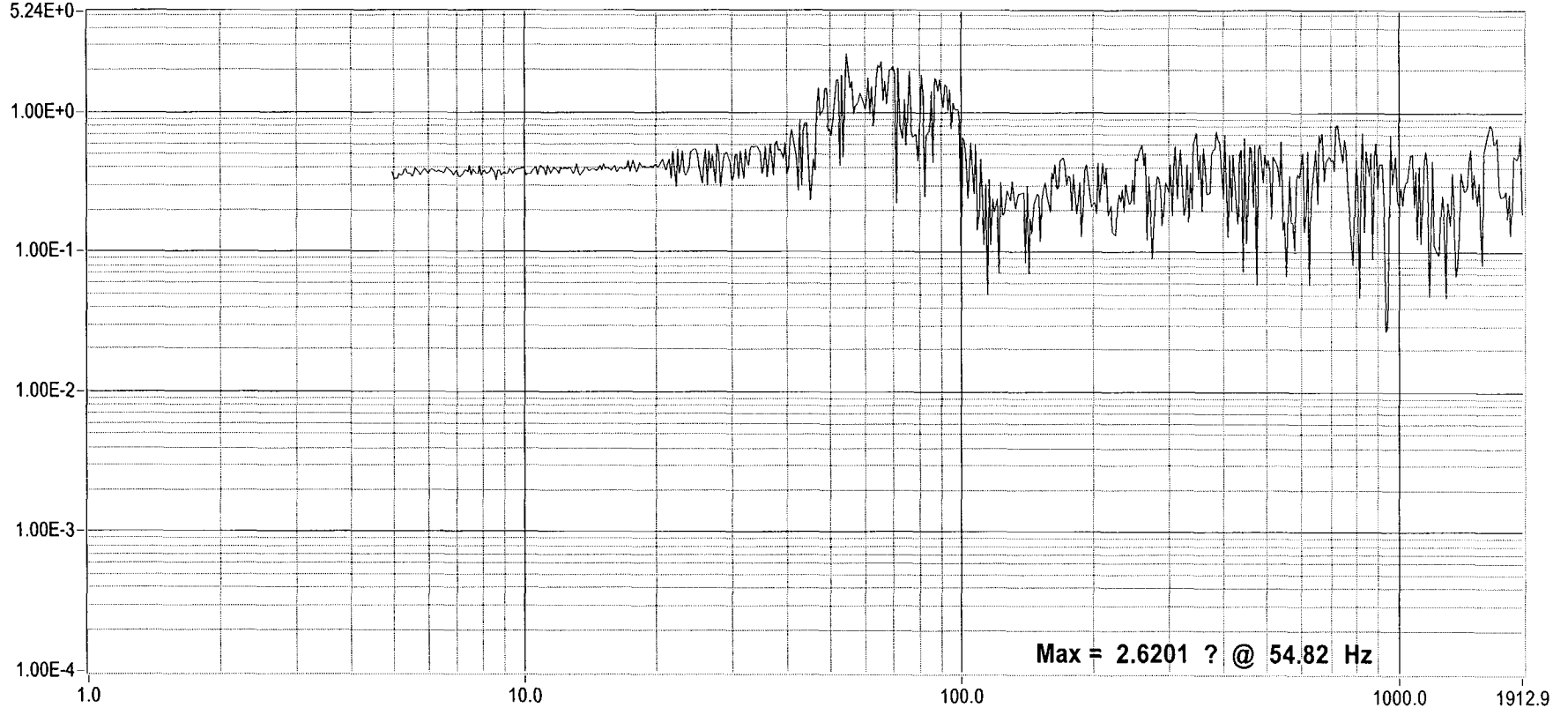
Test Description:
HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Channel #: 57 **Node Number:** 0057

Channel Description: BOX 4 CH 9 SN=BF27

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/23/02 @ 6:04 AM

Frequency HZ

F1: FLY AWAY

Test Title HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Test file number 062303

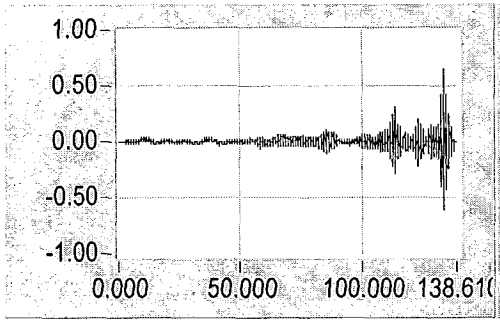
Part_no/id Y4011

Date/Ti

Test 23-Jun-2002 4:56:56

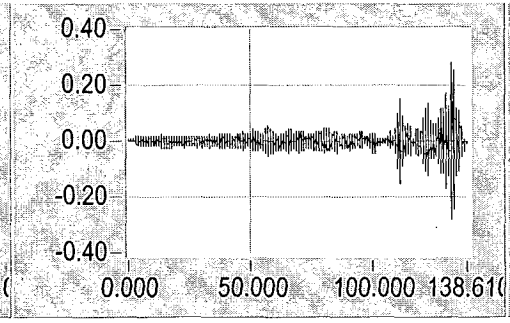
Plot 6/23/02 5:18 AM

Ch 1 North_Control_X



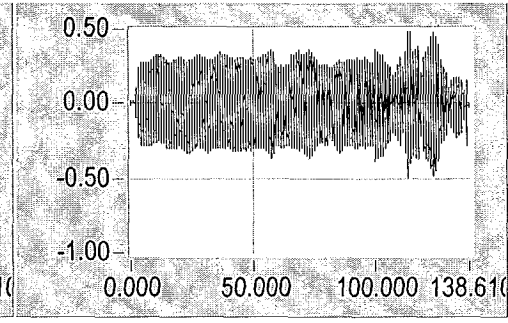
key word not -0.62 0.66

Ch 2 North_Control_Y



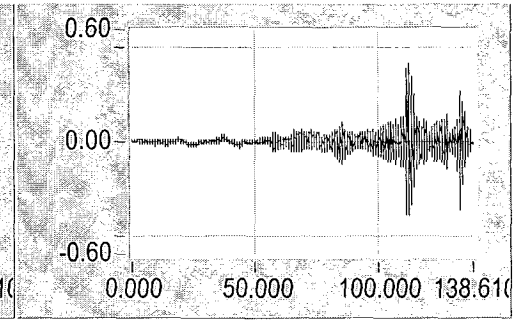
key word not -0.28 0.28

Ch 3 North_Control_Z



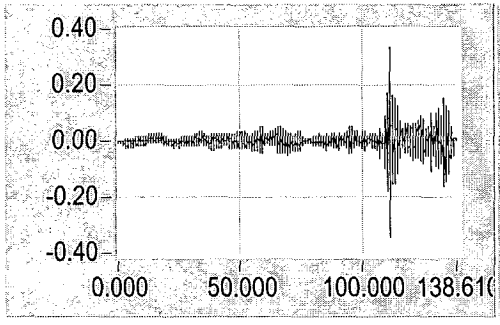
key word not -0.51 0.49

Ch 4 South_Control_X



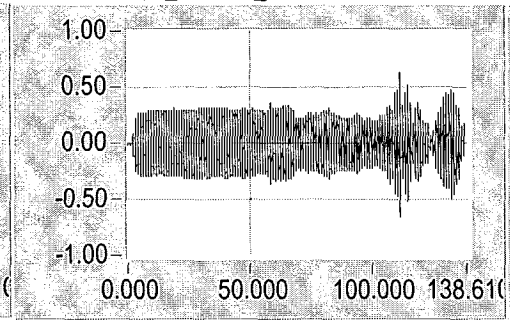
key word not -0.40 0.42

Ch 5 South_Control_Y



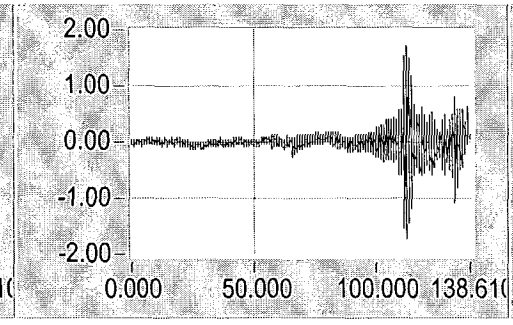
key word not -0.35 0.34

Ch 6 South_Control_Z



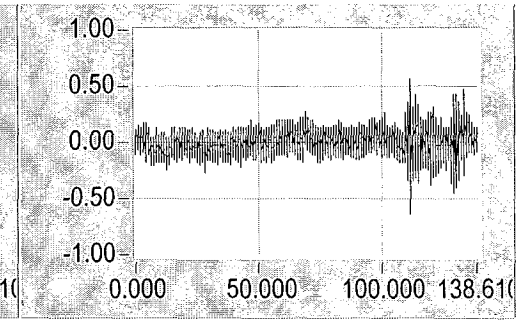
key word not -0.65 0.65

Ch 7 A5 X



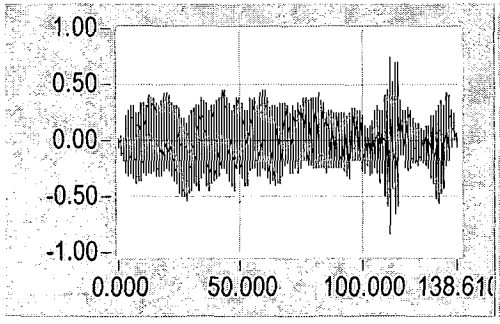
key word not -1.71 1.71

Ch 8 A5 Y



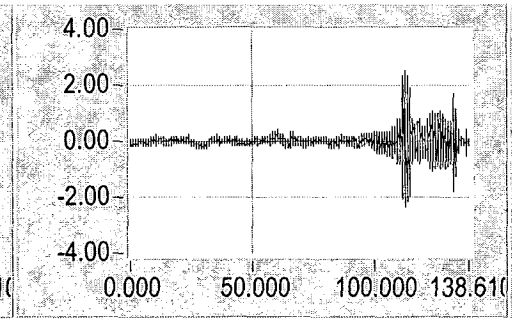
key word not -0.63 0.56

Ch 9 A5 Z



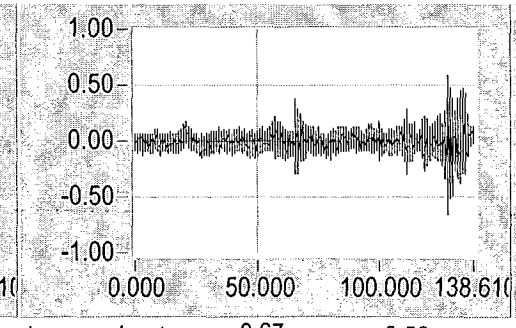
key word not -0.83 0.75

Ch 10 A6 X



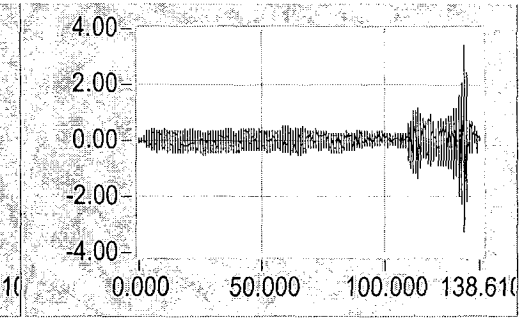
key word not -2.33 2.58

Ch 11 A6 Y



key word not -0.67 0.59

Ch 12 A6 Z



key word not -3.30 3.41

max pts/plot 150000

decimation ratio 28

file name sine\Sine062303

Continue

Print & Continue

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Test Title HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Test file number 062303

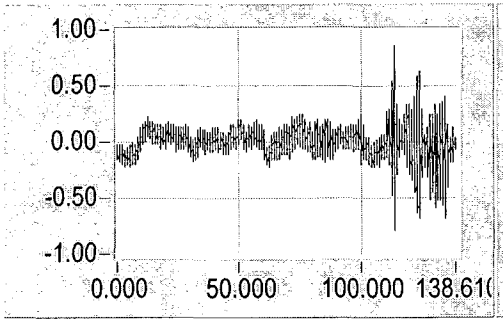
Part_no/id Y4011

Date/Ti

Test 23-Jun-2002 4:56:56

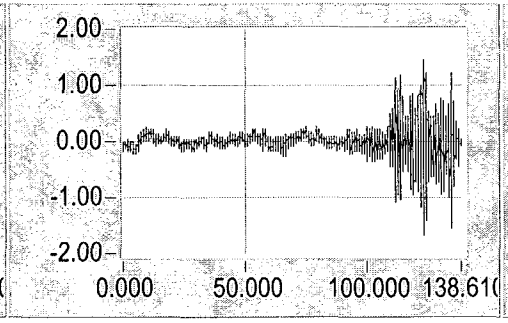
Plot 6/23/02 5:18 AM

Ch 17 A7 X



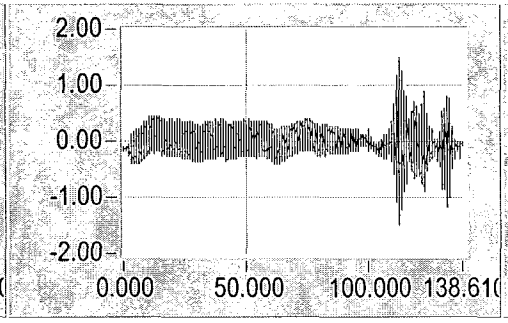
key word not -0.80 0.85

Ch 18 A7 Y



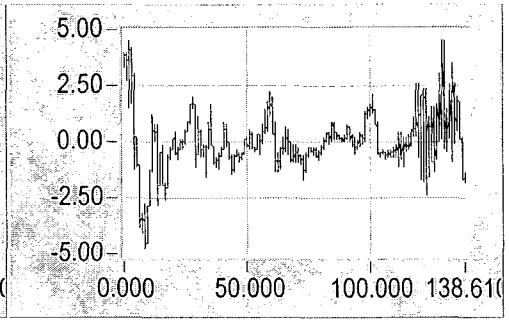
key word not -1.66 1.44

Ch 19 A7 Z



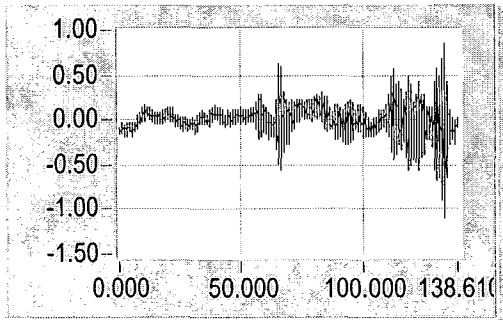
key word not -1.49 1.48

Ch 20 A8 X



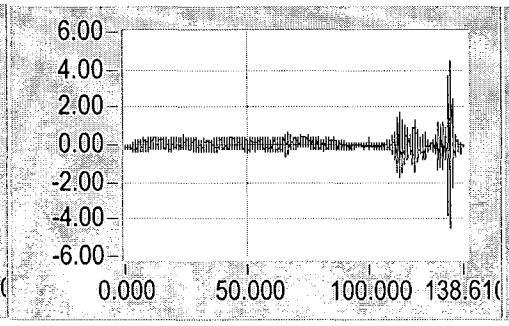
key word not -4.74 4.56

Ch 21 A8 Y



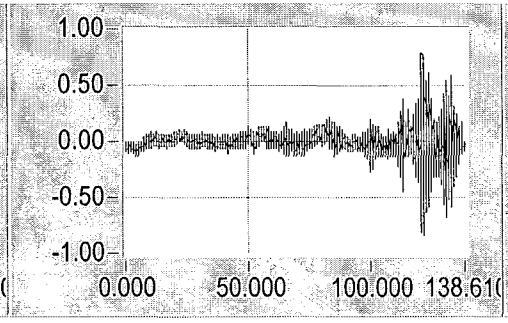
key word not -1.10 0.85

Ch 22 A8 Z



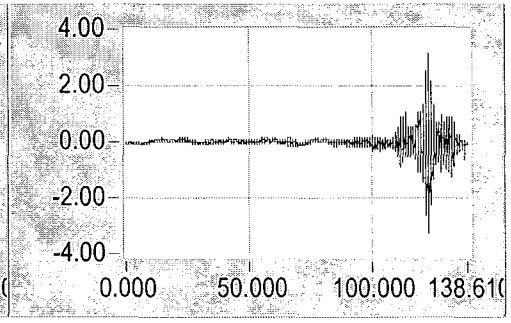
key word not -4.52 4.47

Ch 23 A9 X



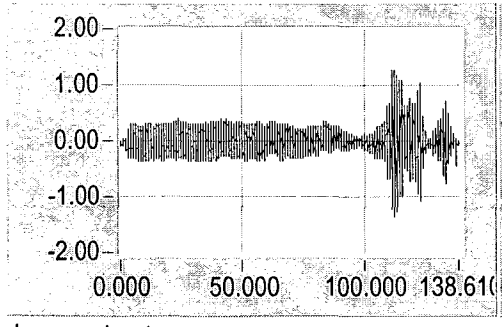
key word not -0.83 0.80

Ch 24 A9 Y



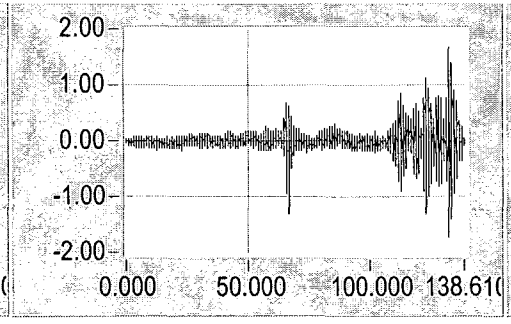
key word not -3.26 3.16

Ch 25 A9 Z



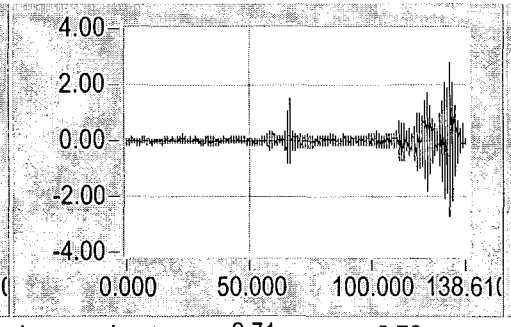
key word not -1.34 1.28

Ch 26 A10 X



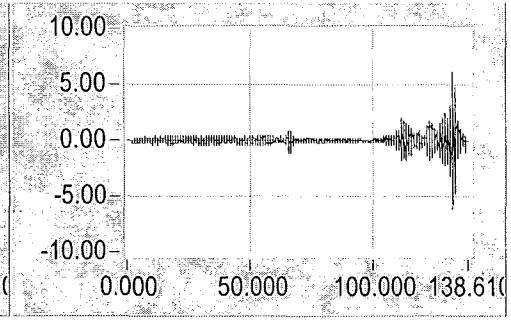
key word not -1.75 1.69

Ch 27 A10 Y



key word not -2.71 2.78

Ch 28 A10 Z



key word not -6.21 6.09

max pts/plot 150000

decimation ratio 28

file name sine:Sine062303

Continue

Print & Continue

Quit

Test Title HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Test file number 062303

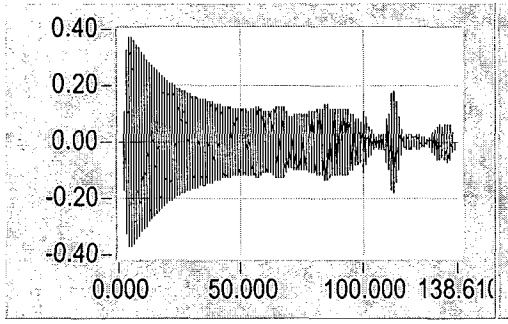
Part_no/id Y4011

Date/T

Test 23-Jun-2002 4:56:56

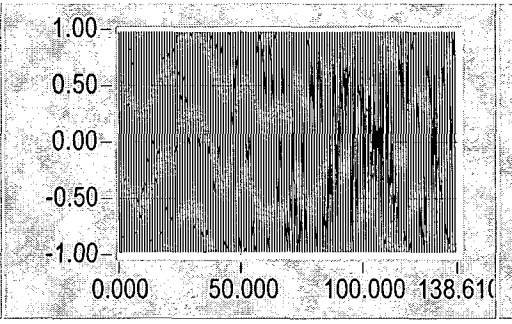
Plot 6/23/02 5:19 AM

Ch 31 DRIVE



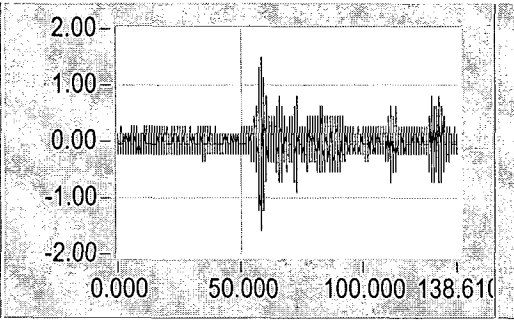
key word not -0.38 0.38

Ch 32 COLA



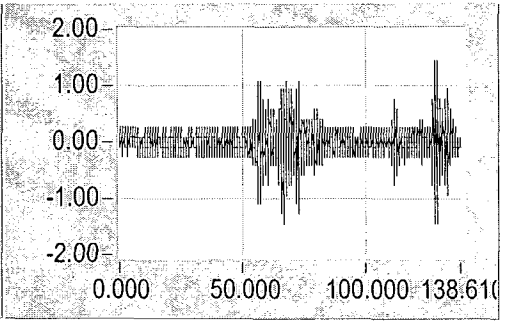
key word not -0.99 0.99

Ch 33 A1X: +Y PANEL UPPER



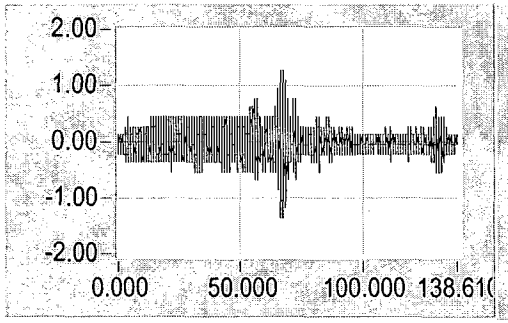
key word not -1.57 1.48

Ch 34 A1Y: +Y PANEL UPPER



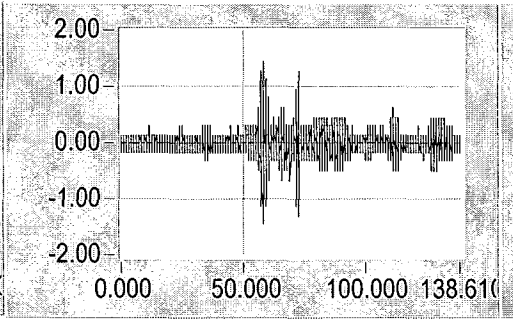
key word not -1.44 1.45

Ch 35 A1Z: +Y PANEL UPPER



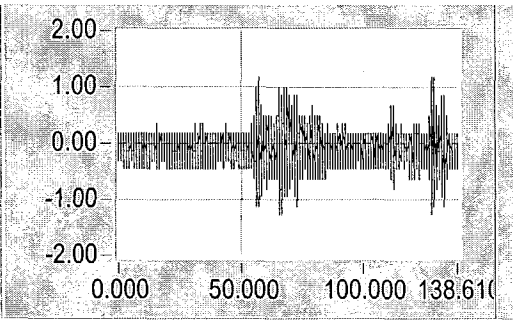
key word not -1.36 1.28

Ch 36 A1RX: +Y PANEL UPPER



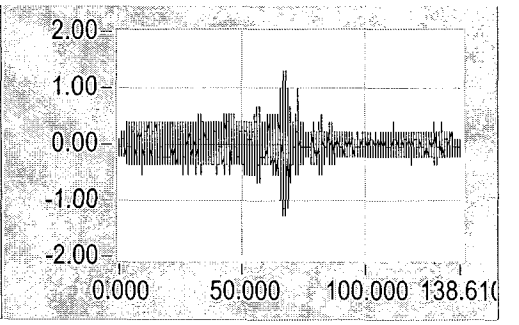
key word not -1.47 1.45

Ch 37 A1RY: +Y PANEL UPPER



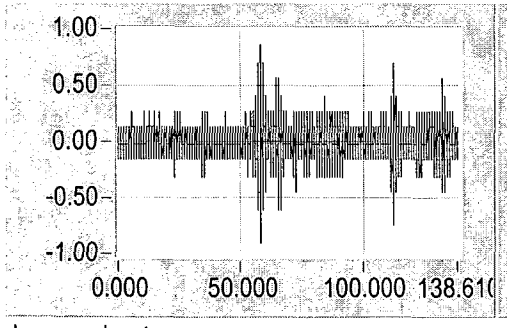
key word not -1.29 1.17

Ch 38 A1RZ: +Y PANEL UPPER



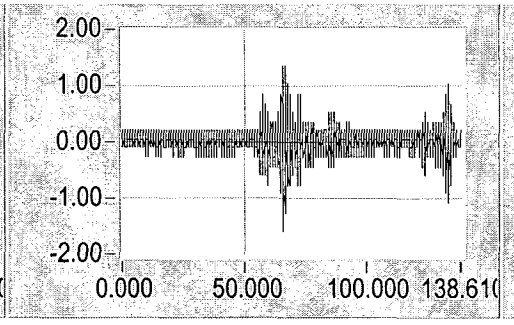
key word not -1.29 1.32

Ch 39 A2X: +Y PANEL LOWER TEU



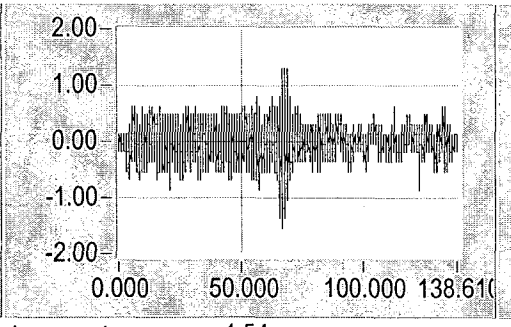
key word not -0.90 0.86

Ch 40 A2Y: +Y PANEL LOWER TEU



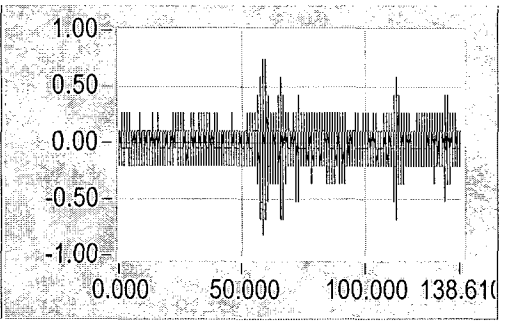
key word not -1.58 1.36

Ch 41 A2Z: +Y PANEL LOWER TEU



key word not -1.54 1.32

Ch 42 A2RX: +Y PANEL LOWER TEU



key word not -0.83 0.74

max pts/plot 150000

decimation ratio 28

file name sine/Sine062303

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Test Title HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Test file number 062303

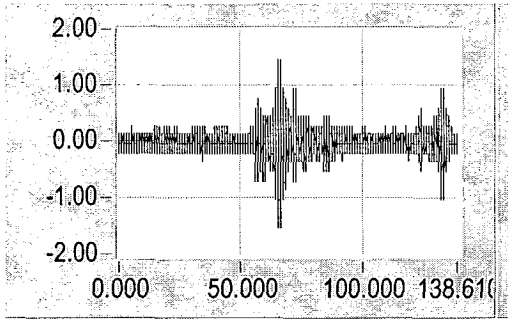
Part_no/id Y4011

Date/T

Test 23-Jun-2002 4:56:56

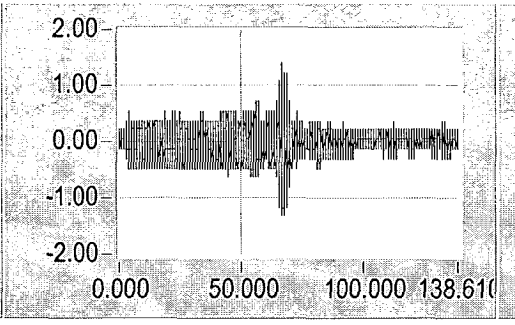
Plot 6/23/02 5:19 AM

Ch 43 A2RY: +Y PANEL LOWER



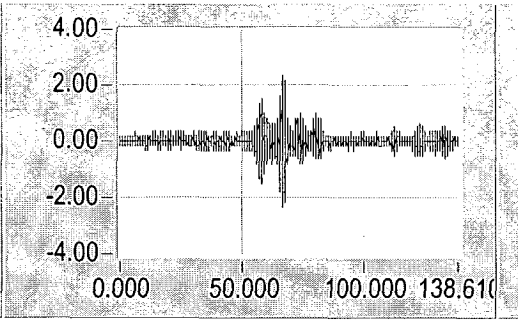
key word not -1.53 1.43

Ch 44 A2RZ: +Y PANEL LOWER



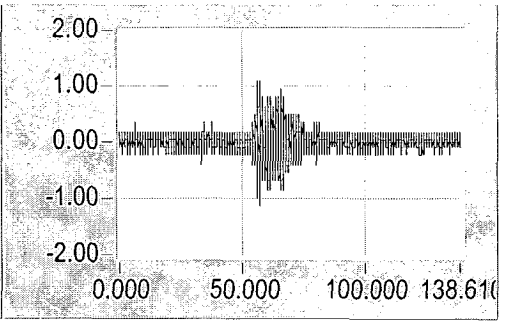
key word not -1.34 1.41

Ch 45 A3X: +X PANEL UPPER CCU



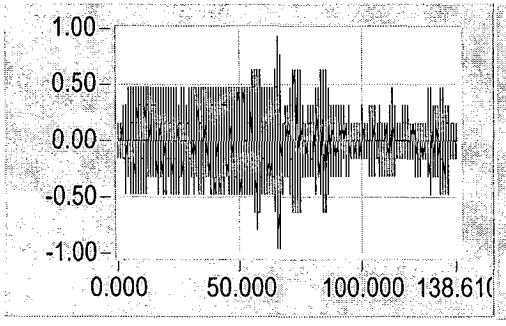
key word not -2.35 2.35

Ch 46 A3Y: +X PANEL UPPER CCU



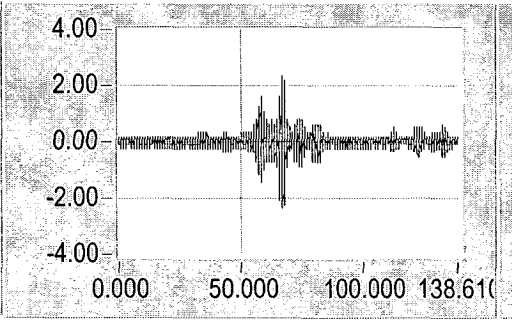
key word not -1.15 1.10

Ch 47 A3Z: +X PANEL UPPER CCU



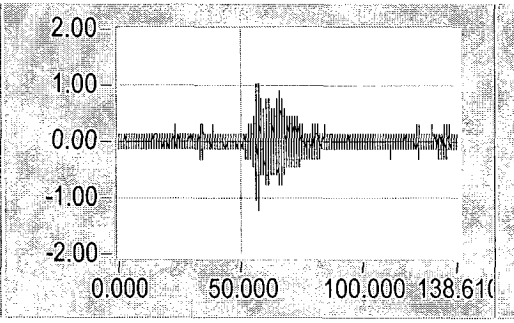
key word not -0.95 0.94

Ch 48 A3RX: +X PANEL UPPER CCU



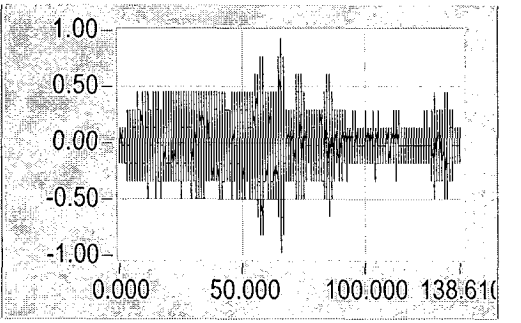
key word not -2.40 2.36

Ch 49 A3RY: +X PANEL UPPER CCU



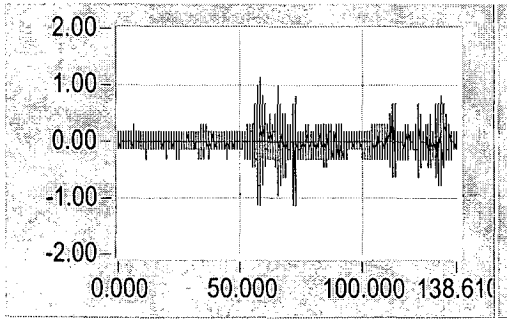
key word not -1.22 1.06

Ch 50 A3RZ: +X PANEL UPPER CCU



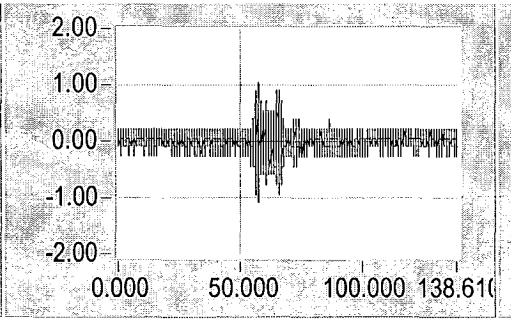
key word not -0.98 0.93

Ch 51 A4X: +Y PANEL MID-CMU



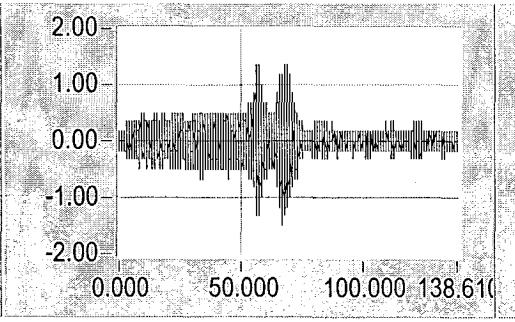
key word not -1.12 1.15

Ch 52 A4Y: +Y PANEL MID-CMU



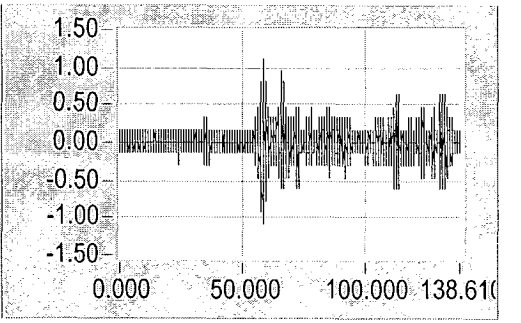
key word not -1.11 1.07

Ch 53 A4Z: +Y PANEL MID-CMU



key word not -1.51 1.35

Ch 54 A4RX: +Y PANEL MID-CMU



key word not -1.09 1.12

max pts/plot 150000

decimation ratio 28

file name sine_Sine062303

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Test Title HIRDLS VIBRATION TEST: Z-AXIS .25 SINE SWEEP

Date/T

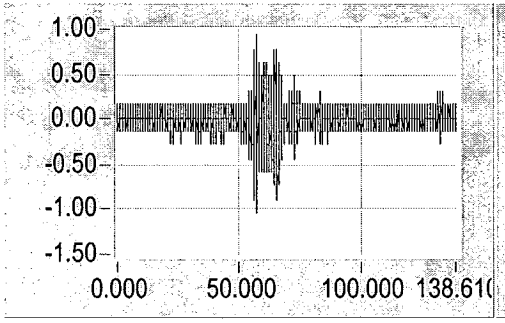
Test 23-Jun-2002 4:56:56

Test file number 062303

Part_no/id Y4011

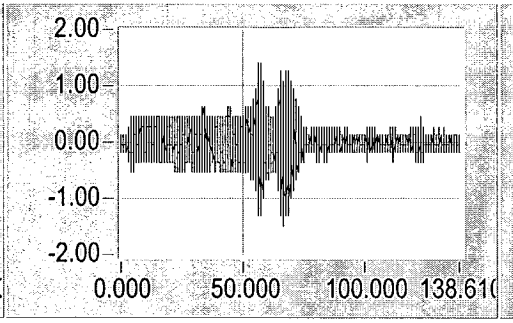
Plot 6/23/02 5:20 AM

Ch 55 A4RY: +Y PANEL MID-CMU



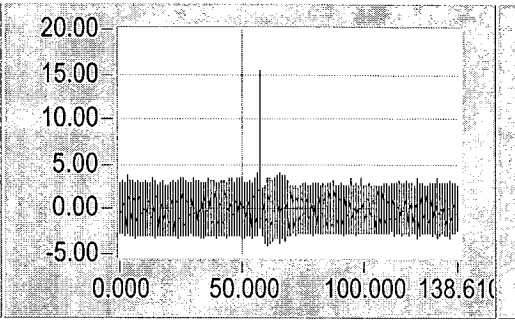
key word not -1.05 0.93

Ch 56 A4RZ: +Y PANEL MID-CMU

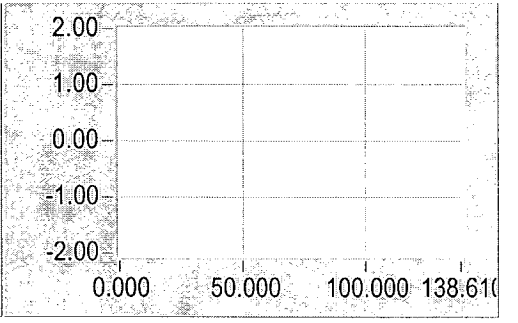


key word not -1.50 1.43

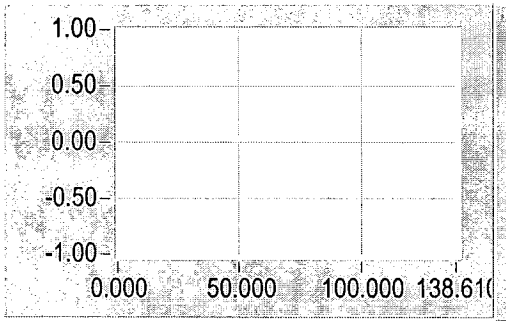
Ch 57 F1: FLY AWAY



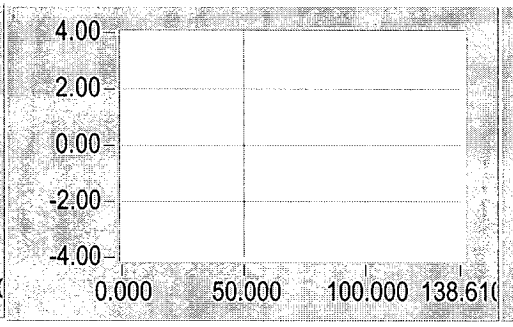
key word not -4.07 15.36



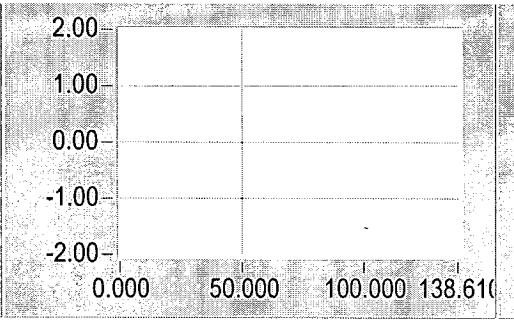
-1.15 1.10



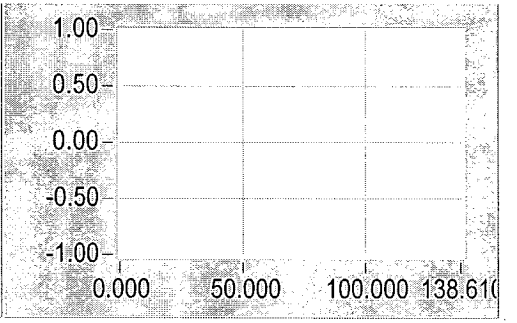
-0.95 0.94



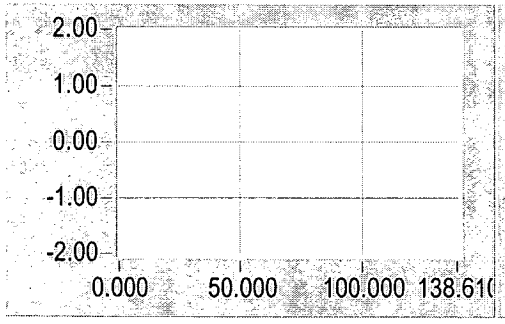
-2.40 2.36



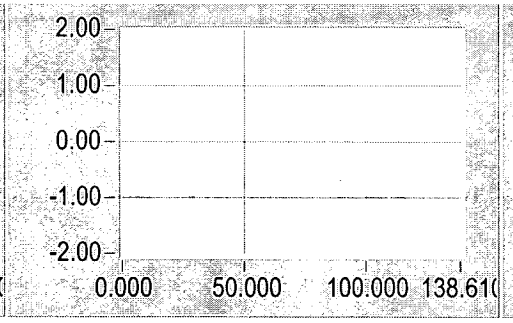
-1.22 1.06



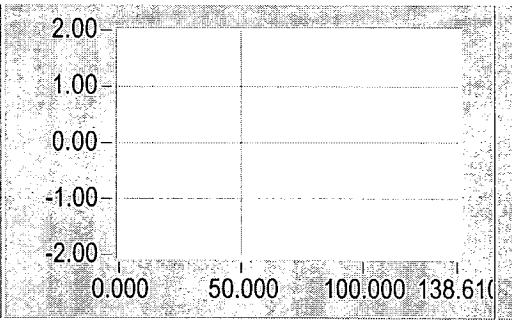
-0.98 0.93



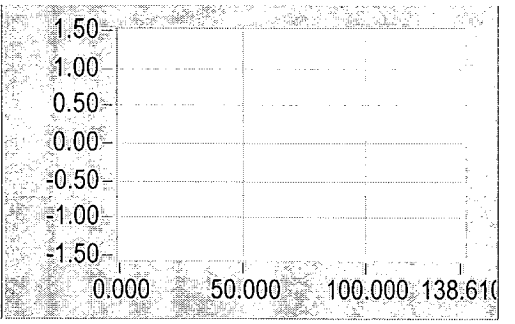
-1.12 1.15



-1.11 1.07



-1.51 1.35



-1.09 1.12

max pts/plot 150000

decimation ratio 28

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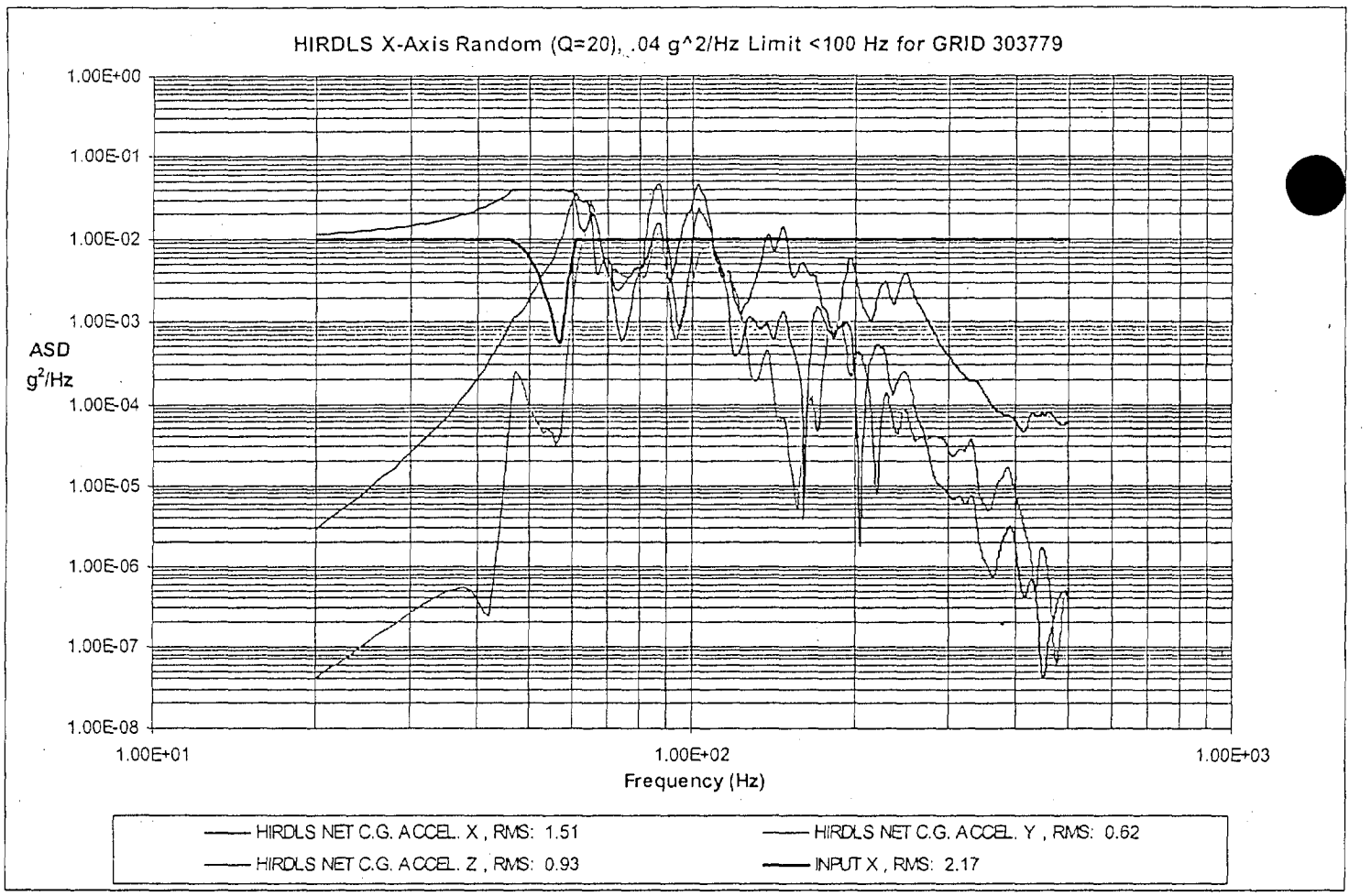
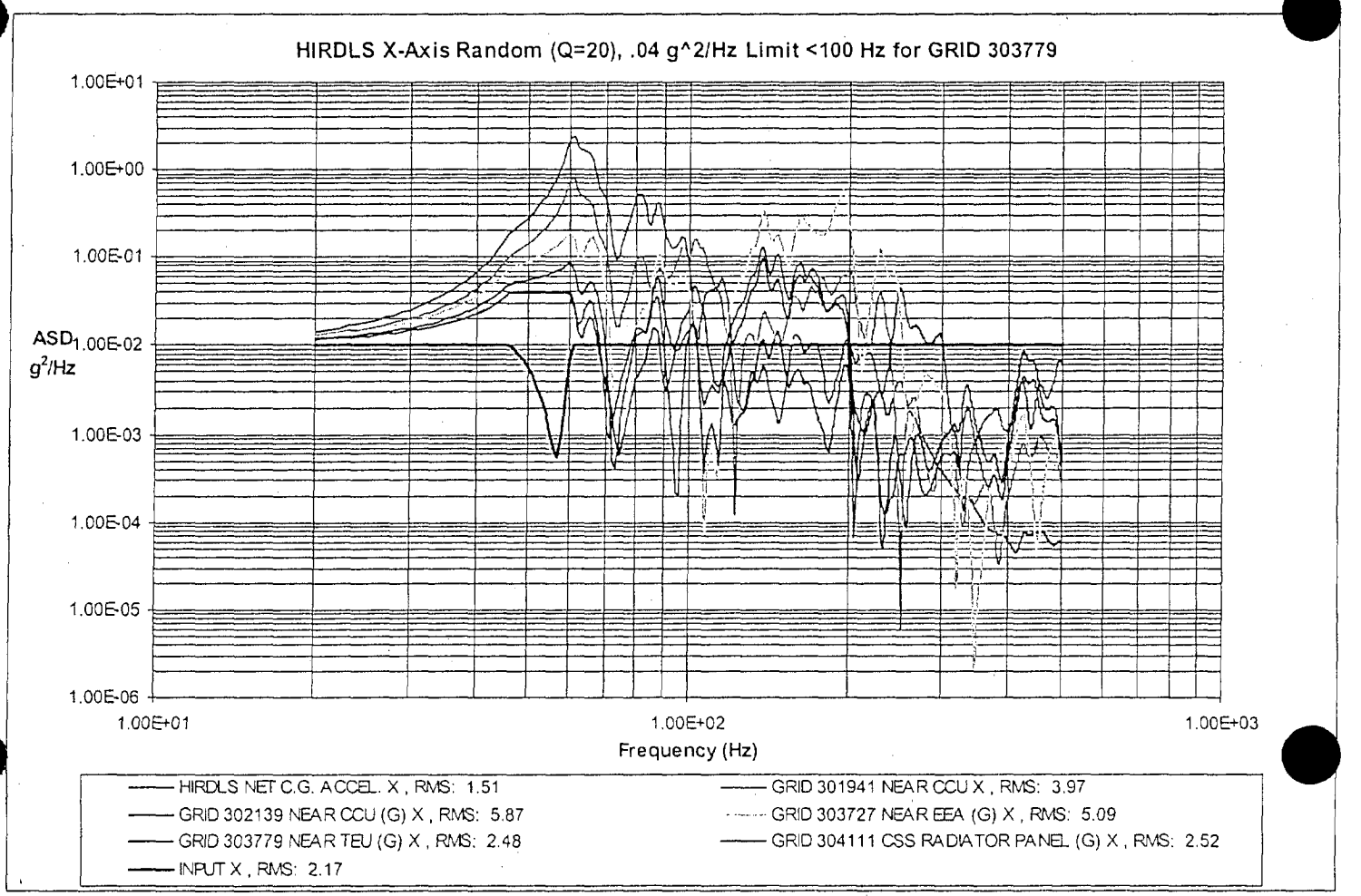
HIRDLS RANDOM ANALYSIS, 3/19/02

- X, Y AND Z AXIS BASEDRIVES PERFORMED TO DETERMINE NOTCHING GUIDELINES FOR HIRDLS INSTRUMENT TESTING
- ANALYSIS PERFORMED ON HIRDLS VLA MODEL WITH TRW FLIGHT MOUNT STIFFNESS INCORPORATED
- ANALYSIS PARAMETERS
  - MODES RETAINED TO 500 HZ
  - Q = 20
  - ANALYSIS INPUT PSD SPEC: .01 G^2/HZ, 20 TO 500 HZ
  - PSD LIMITS PLACED ON EXISTING ACCELEROMETER LOCATIONS TO KEEP INSTRUMENT INTERFACE LOADS CONSISTENT WITH 1.25 X CLA RESULTS
- RESULTS
  - NOTCHING WILL BE NECESSARY AT INSTRUMENT PRIMARY (HIGH MASS) MODES FOR X, Y AND Z AXIS RANDOM TESTING
    - X-AXIS: 0.04 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR TEU (GRID 303779)
      - LIMITS PRIMARY X-AXIS MODE PREDICTED AT 56.8 HZ
    - Y-AXIS: 0.02 G^2/HZ LIMIT <50 HZ, 0.08 G^2/HZ >50<80 HZ ON ACCELEROMETER NEAR EEA (GRID 303727)
      - LIMITS HIGH MASS Y-AXIS MODES PREDICTED AT 46.9 HZ AND 65.1 HZ
    - Z-AXIS: 0.01 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR CCU (GRID 302139) AND ACCELEROMETER NEAR TEU (GRID 303779)
      - LIMITS HIGH MASS Z-AXIS MODES AT 56.8 HZ, 65.1 HZ, AND 82.2 HZ TO 88.8 HZ
- RESPONSES ARE BASED ON ANALYTICAL PREDICTIONS AND MAY NEED ADJUSTING DURING TESTING
  - ACTUAL INPUT NOTCHES DURING TESTING SHOULD NOT EXCEED 14 DB
- RESPONSE SUMMARIES, PLOTS, AND MODAL EFFECTIVE WEIGHTS ARE PROVIDED IN THE FOLLOWING PAGES

HIRDLS X-Axis Random (Q=20), .04 g^2/Hz Limit <100 Hz for GRID 303779							
				CDA	Ratio	VLA	Ratio
		1-sigma	3-sigma	w MECO	Random/CDA	w/o MECO	Random/VLA
HIRDLS NET C.G. ACCEL.	X	1.51	4.54	7.22	0.63	2.91	1.56
(G'S & RAD/SEC^2)	Y	0.62	1.87	1.72	1.09	1.57	1.20
	Z	0.93	2.79	1.65	1.69	1.55	1.81
	RX	14.91	44.72	15.68	2.85	14.53	3.08
	RY	22.98	68.93	9.58	7.19	9.24	7.46
	RZ	16.73	50.20	10.23	4.91	8.66	5.80
HIRDLS NET I/F FORCE	FX	624.79	1874.38	n/a	#VALUE!	n/a	#VALUE!
(LB, IN-LB)	FY	257.77	773.32	n/a	#VALUE!	n/a	#VALUE!
	FZ	383.90	1151.70	n/a	#VALUE!	n/a	#VALUE!
	MX	12394.06	37182.18	n/a	#VALUE!	n/a	#VALUE!
	MY	18132.65	54397.95	n/a	#VALUE!	n/a	#VALUE!
	MZ	21843.50	65530.49	n/a	#VALUE!	n/a	#VALUE!
GRID 300868 TOTAL FORCE --	X	288.38	865.15	1825.98	0.47	889.48	0.97
	Y	8.74	26.22	24.79	1.06	24.06	1.09
	Z	127.05	381.15	369.21	1.03	248.53	1.53
	RX	1.02	3.07	14.38	0.21	12.79	0.24
	RY	17.10	51.31	57.93	0.89	44.35	1.16
	RZ	2.63	7.88	32.28	0.24	24.03	0.33
GRID 300869 TOTAL FORCE --	X	0.62	1.86	2.71	0.69	0.61	3.06
	Y	0.50	1.51	0.68	2.23	0.50	3.05
	Z	120.54	361.63	379.04	0.95	183.99	1.97
	RX	0.34	1.01	3.47	0.29	2.89	0.35
	RY	1.18	3.54	12.18	0.29	5.93	0.60
	RZ	0.05	0.15	0.05	3.10	0.00	38.69
GRID 300870 TOTAL FORCE --	X	6.62	19.87	18.17	1.09	15.83	1.26
	Y	180.60	541.80	779.05	0.70	473.17	1.15
	Z	185.60	556.81	384.25	1.45	362.86	1.53
	RX	28.77	86.32	84.17	1.03	53.99	1.60
	RY	1.86	5.59	13.28	0.42	12.56	0.45
	RZ	4.01	12.03	14.54	0.83	7.51	1.60
GRID 300871 TOTAL FORCE --	X	11.83	35.50	56.26	0.63	31.71	1.12
	Y	300.82	902.46	891.03	1.01	479.11	1.88
	Z	134.34	403.02	218.22	1.85	204.07	1.97
	RX	20.75	62.24	80.97	0.77	45.02	1.38
	RY	1.43	4.29	37.40	0.11	20.22	0.21
	RZ	3.15	9.44	28.00	0.34	14.34	0.66
GRID 300872 TOTAL FORCE --	X	172.30	516.89	708.78	0.73	297.68	1.74
	Y	115.59	346.76	262.04	1.32	212.77	1.63
	Z	115.50	346.51	418.93	0.83	182.14	1.90
	RX	7.45	22.34	25.27	0.88	24.41	0.92
	RY	23.03	69.08	61.89	1.12	46.44	1.49
	RZ	5.33	15.99	19.95	0.80	17.31	0.92
GRID 300913 TOTAL FORCE --	X	0.39	1.16	2.71	0.43	1.77	0.66
	Y	0.15	0.46	0.25	1.84	0.13	3.62
	Z	103.50	310.49	331.70	0.94	178.91	1.74
	RX	0.28	0.84	1.18	0.71	0.72	1.17
	RY	0.68	2.03	3.10	0.65	2.05	0.99
	RZ	0.04	0.11	0.00	#DIV/0!	0.00	56.78
GRID 300914 TOTAL FORCE --	X	0.55	1.66	2.73	0.61	2.13	0.78
	Y	0.17	0.52	0.67	0.78	0.20	2.67
	Z	67.69	203.06	208.63	0.97	119.82	1.69
	RX	0.26	0.78	1.07	0.73	0.75	1.04
	RY	0.54	1.63	4.74	0.34	1.97	0.83
	RZ	0.04	0.12	0.00	#DIV/0!	0.00	40.71

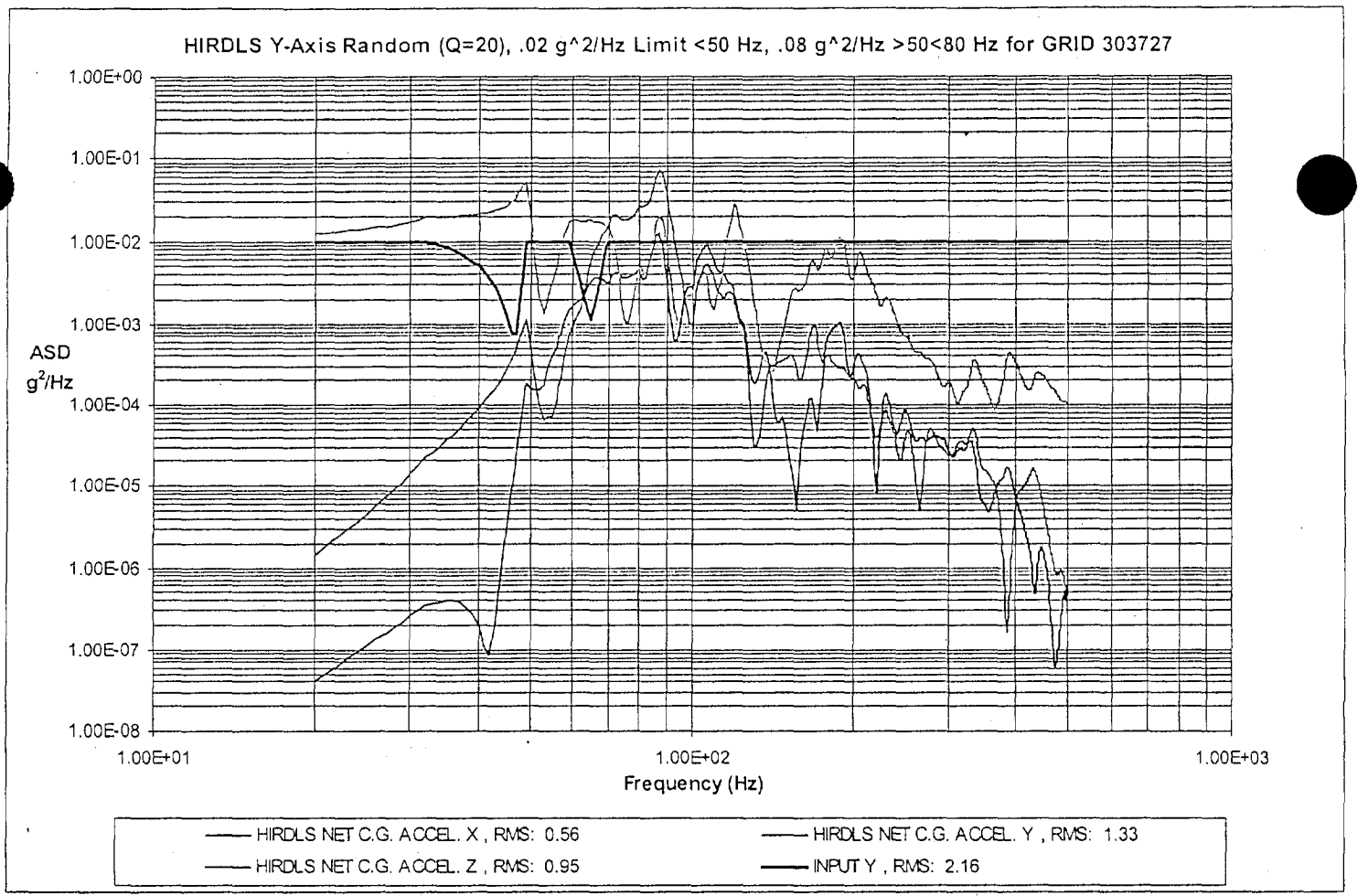
GRID 100000 ACCEL (G)	X	2.17	6.51	n/a		n/a	
	Y	#DIV/0!	#DIV/0!	n/a		n/a	
	Z	#DIV/0!	#DIV/0!	n/a		n/a	
GRID 301941 NEAR CCU	X	3.97	11.90	n/a		n/a	
	Y	2.33	6.98	n/a		n/a	
	Z	1.63	4.89	n/a		n/a	
GRID 302139 NEAR CCU (G)	X	5.87	17.62	n/a		n/a	
	Y	2.66	7.99	n/a		n/a	
	Z	1.87	5.61	n/a		n/a	
GRID 303727 NEAR EEA (G)	X	5.09	15.27	n/a		n/a	
	Y	3.05	9.16	n/a		n/a	
	Z	1.50	4.50	n/a		n/a	
GRID 303779 NEAR TEU (G)	X	2.48	7.43	n/a		n/a	
	Y	4.46	13.38	n/a		n/a	
	Z	1.53	4.60	n/a		n/a	
GRID 304111 CSS RADIATOR PANEL (G)	X	2.52	7.57	n/a		n/a	
	Y	2.94	8.82	n/a		n/a	
	Z	1.73	5.19	n/a		n/a	

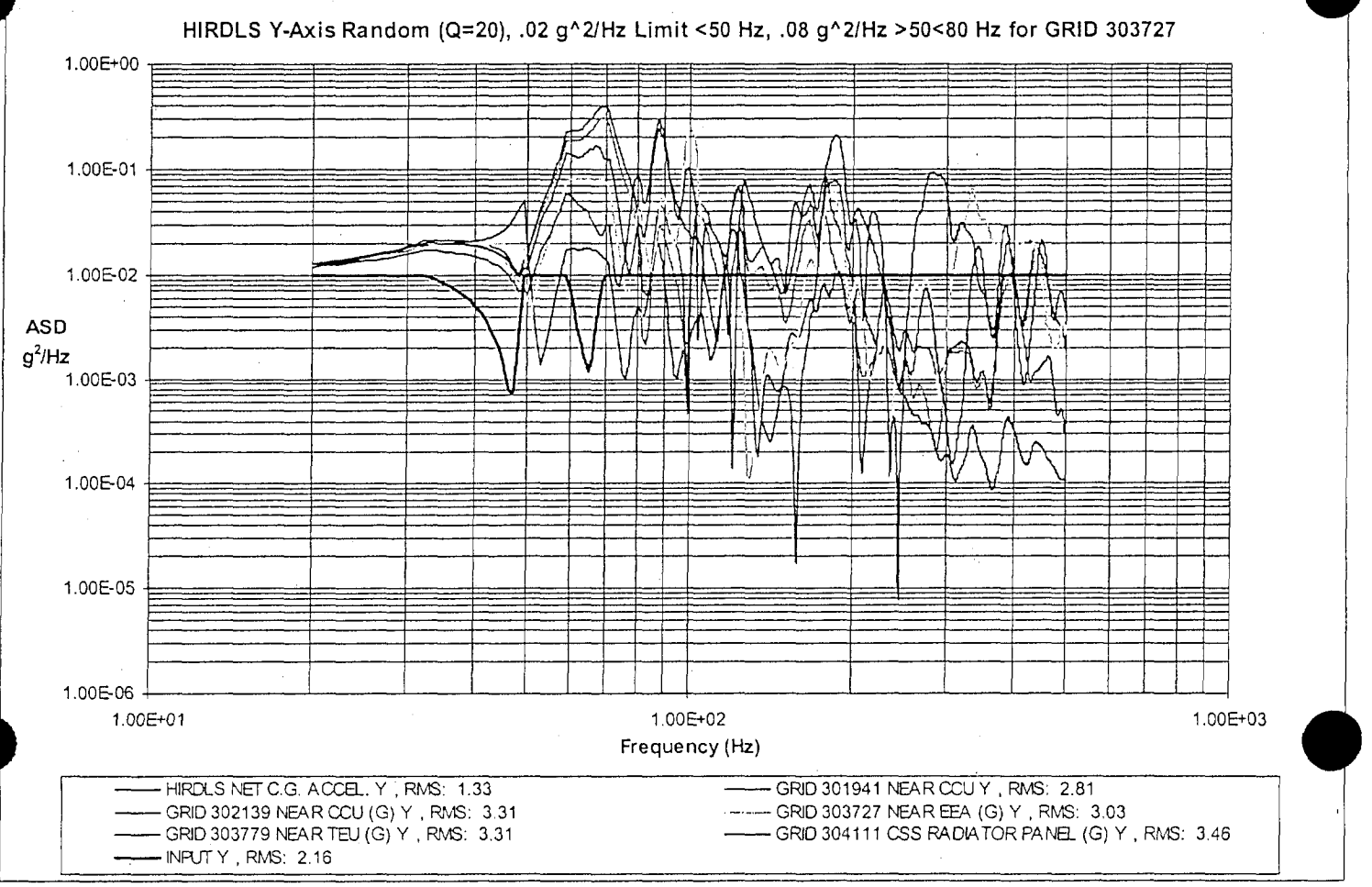

HIRDLS X-Axis Random (Q=20), .04 g^2/Hz Limit <100 Hz for GRID 303779
1.00E+00
1.00E-01
1.00E-02
1.00E-03
ASD
g²/Hz
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
1.00E+01
1.00E+02
1.00E+03
Frequency (Hz)
HIRDLS NET C.G. ACCEL. X , RMS: 1.51
HIRDLS NET C.G. ACCEL. Y , RMS: 0.62
HIRDLS NET C.G. ACCEL. Z , RMS: 0.93
INPUT X , RMS: 2.17


HIRDLS X-Axis Random (Q=20), .04 g^2/Hz Limit <100 Hz for GRID 303779
1.00E+01
1.00E+00
1.00E-01
ASD
g²/Hz
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E+01
1.00E+02
1.00E+03
Frequency (Hz)
HIRDLS NET C.G. ACCEL. X , RMS: 1.51
GRID 301941 NEAR CCU X , RMS: 3.97
GRID 302139 NEAR CCU (G) X , RMS: 5.87
GRID 303727 NEAR EEA (G) X , RMS: 5.09
GRID 303779 NEAR TEU (G) X , RMS: 2.48
GRID 304111 CSS RADIATOR PANEL (G) X , RMS: 2.52
INPUT X , RMS: 2.17

HIRDLS Y-Axis Random (Q=20), .02 g^2/Hz Limit <50 Hz, .08 g^2/Hz >50<80 Hz for GRID 303727							
				CDA	Ratio	VLA	Ratio
		1-sigma	3-sigma	w MECO	Random/CDA	w/o MECO	Random/VLA
HIRDLS NET C.G. ACCEL.	X	0.56	1.67	7.22	0.23	2.91	0.57
(G'S & RAD/SEC^2)	Y	1.33	3.99	1.72	2.32	1.57	2.54
	Z	0.95	2.84	1.65	1.72	1.55	1.84
	RX	35.06	105.17	15.68	6.71	14.53	7.24
	RY	10.55	31.66	9.58	3.31	9.24	3.43
	RZ	14.93	44.80	10.23	4.38	8.66	5.17
HIRDLS NET I/F FORCE	FX	228.95	686.85	n/a	#VALUE!	n/a	#VALUE!
(LB, IN-LB)	FY	548.55	1645.64	n/a	#VALUE!	n/a	#VALUE!
	FZ	390.30	1170.89	n/a	#VALUE!	n/a	#VALUE!
	MX	18018.13	54054.38	n/a	#VALUE!	n/a	#VALUE!
	MY	19791.04	59373.13	n/a	#VALUE!	n/a	#VALUE!
	MZ	23119.17	69357.52	n/a	#VALUE!	n/a	#VALUE!
GRID 300868 TOTAL FORCE --	X	88.85	266.56	1825.98	0.15	889.48	0.30
	Y	10.26	30.77	24.79	1.24	24.06	1.28
	Z	127.80	383.40	369.21	1.04	248.53	1.54
	RX	1.52	4.57	14.38	0.32	12.79	0.36
	RY	17.73	53.20	57.93	0.92	44.35	1.20
	RZ	2.38	7.15	32.28	0.22	24.03	0.30
GRID 300869 TOTAL FORCE --	X	0.30	0.91	2.71	0.34	0.61	1.49
	Y	0.59	1.76	0.68	2.59	0.50	3.55
	Z	94.43	283.30	379.04	0.75	183.99	1.54
	RX	0.54	1.62	3.47	0.47	2.89	0.56
	RY	0.87	2.60	12.18	0.21	5.93	0.44
	RZ	0.05	0.14	0.05	2.78	0.00	34.76
GRID 300870 TOTAL FORCE --	X	5.55	16.65	18.17	0.92	15.83	1.05
	Y	265.08	795.24	779.05	1.02	473.17	1.68
	Z	183.11	549.32	384.25	1.43	362.86	1.51
	RX	17.77	53.30	84.17	0.63	53.99	0.99
	RY	1.99	5.97	13.28	0.45	12.56	0.48
	RZ	3.60	10.81	14.54	0.74	7.51	1.44
GRID 300871 TOTAL FORCE --	X	8.06	24.18	56.26	0.43	31.71	0.76
	Y	259.35	778.06	891.03	0.87	479.11	1.62
	Z	160.42	481.27	218.22	2.21	204.07	2.36
	RX	19.88	59.65	80.97	0.74	45.02	1.32
	RY	2.02	6.05	37.40	0.16	20.22	0.30
	RZ	3.24	9.72	28.00	0.35	14.34	0.68
GRID 300872 TOTAL FORCE --	X	69.78	209.34	708.78	0.30	297.68	0.70
	Y	196.58	589.74	262.04	2.25	212.77	2.77
	Z	75.36	226.09	418.93	0.54	182.14	1.24
	RX	15.90	47.69	25.27	1.89	24.41	1.95
	RY	17.35	52.05	61.89	0.84	46.44	1.12
	RZ	10.35	31.05	19.95	1.56	17.31	1.79
GRID 300913 TOTAL FORCE --	X	0.25	0.76	2.71	0.28	1.77	0.43
	Y	0.31	0.93	0.25	3.71	0.13	7.30
	Z	99.91	299.74	331.70	0.90	178.91	1.68
	RX	0.33	0.98	1.18	0.83	0.72	1.37
	RY	0.96	2.89	3.10	0.93	2.05	1.41
	RZ	0.03	0.08	0.00	#DIV/0!	0.00	40.17
GRID 300914 TOTAL FORCE --	X	0.26	0.77	2.73	0.28	2.13	0.36
	Y	0.31	0.93	0.67	1.39	0.20	4.79
	Z	76.27	228.82	208.63	1.10	119.82	1.91
	RX	0.28	0.85	1.07	0.79	0.75	1.13
	RY	0.84	2.51	4.74	0.53	1.97	1.27
	RZ	0.03	0.09	0.00	#DIV/0!	0.00	29.37

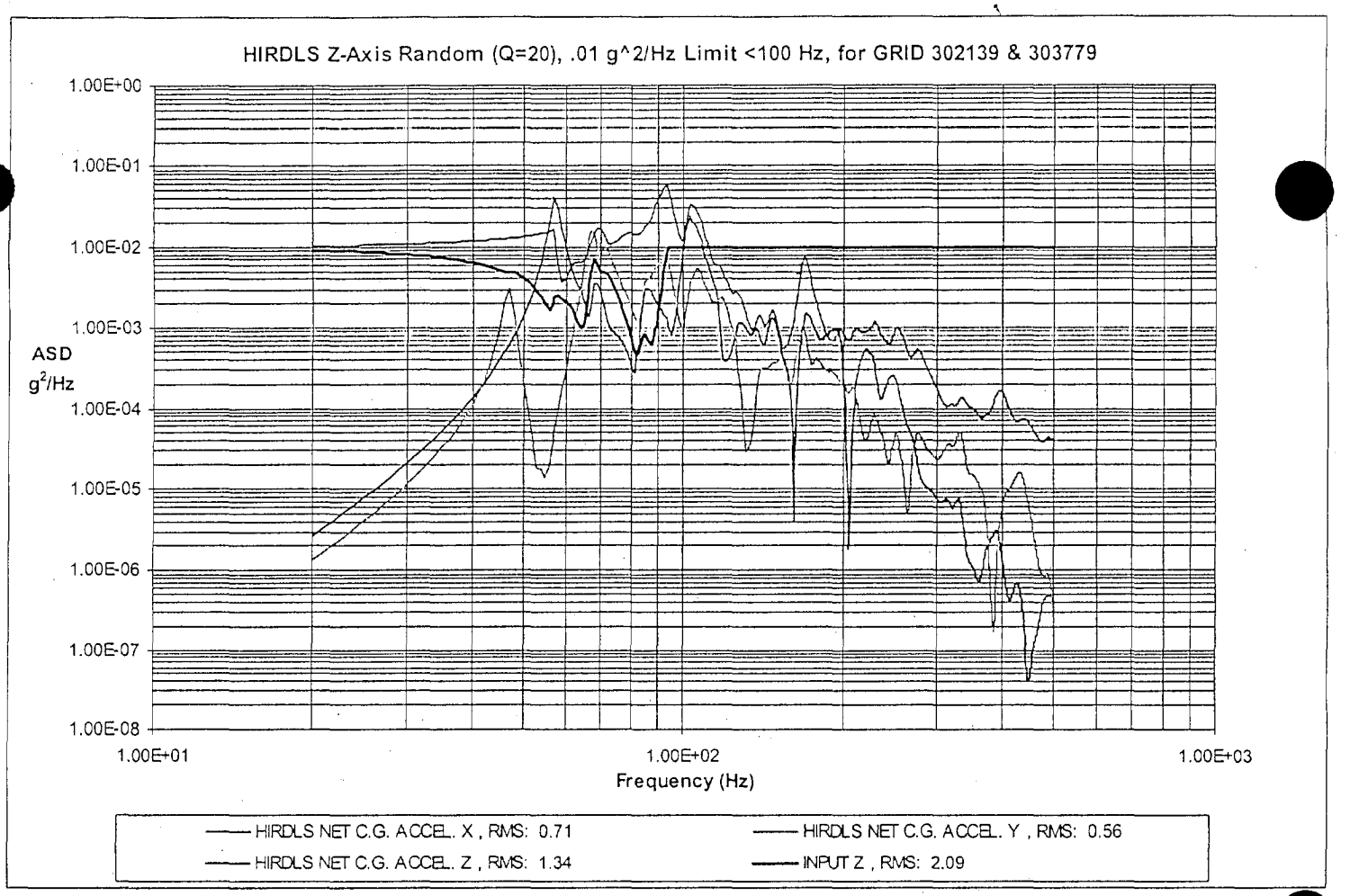
GRID 100000 ACCEL (G)	X	#DIV/0!	#DIV/0!	n/a		n/a	
	Y	2.16	6.47	n/a		n/a	
	Z	#DIV/0!	#DIV/0!	n/a		n/a	
GRID 301941 NEAR CCU	X	2.51	7.52	n/a		n/a	
	Y	2.81	8.43	n/a		n/a	
	Z	1.31	3.92	n/a		n/a	
GRID 302139 NEAR CCU (G)	X	2.48	7.45	n/a		n/a	
	Y	3.31	9.93	n/a		n/a	
	Z	1.40	4.19	n/a		n/a	
GRID 303727 NEAR EEA (G)	X	2.01	6.02	n/a		n/a	
	Y	3.03	9.09	n/a		n/a	
	Z	1.57	4.70	n/a		n/a	
GRID 303779 NEAR TEU (G)	X	1.28	3.85	n/a		n/a	
	Y	3.31	9.92	n/a		n/a	
	Z	1.57	4.71	n/a		n/a	
GRID 304111 CSS RADIATOR PANEL (G)	X	1.51	4.52	n/a		n/a	
	Y	3.46	10.37	n/a		n/a	
	Z	1.24	3.72	n/a		n/a	

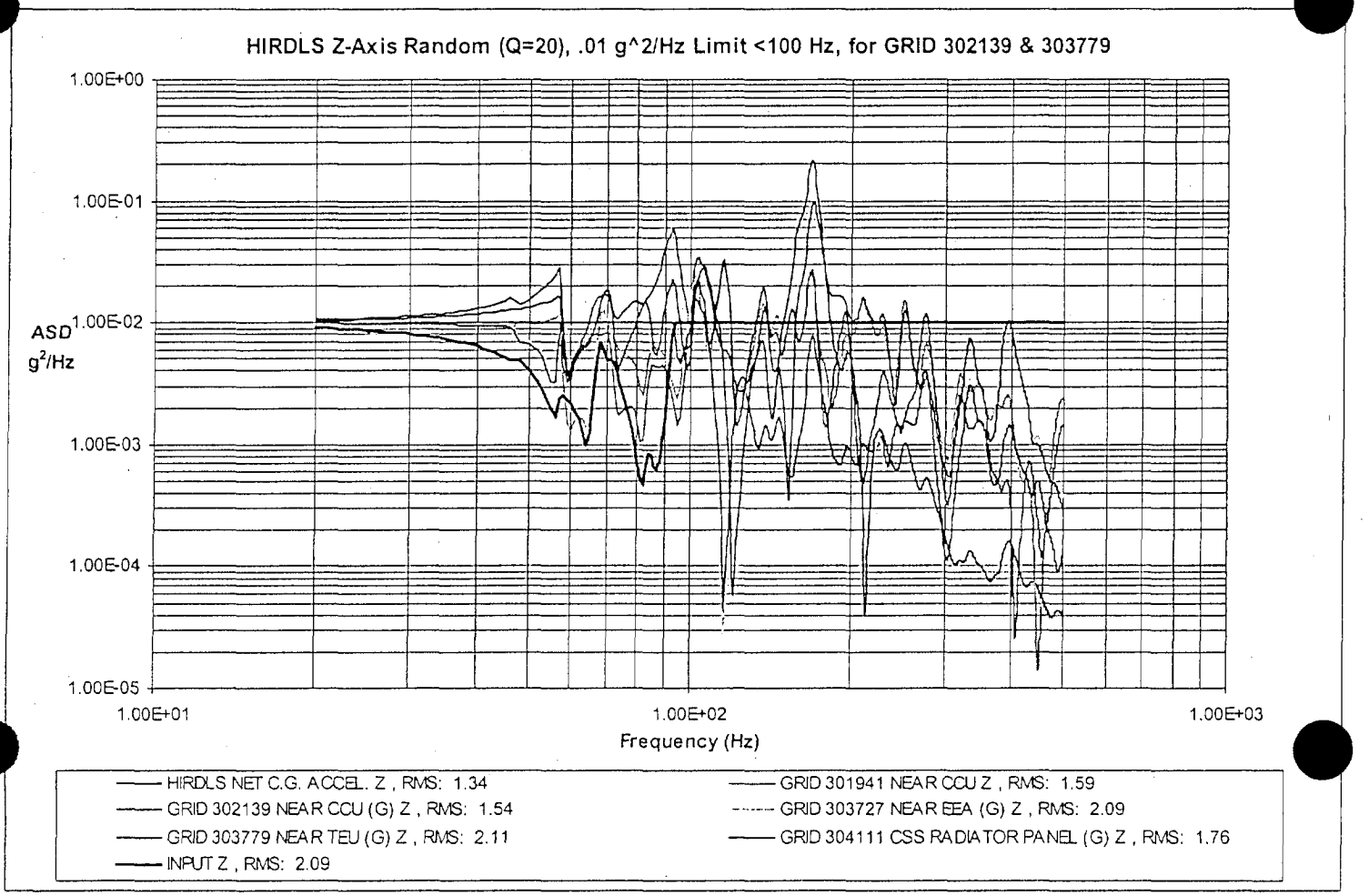

HIRDLS Y-Axis Random (Q=20), .02 g^2/Hz Limit <50 Hz, .08 g^2/Hz >50<80 Hz for GRID 303727
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
ASD
g²/Hz
1.00E+01
1.00E+02
1.00E+03
Frequency (Hz)
HIRDLS NET C.G. ACCEL. X , RMS: 0.56
HIRDLS NET C.G. ACCEL. Y , RMS: 1.33
HIRDLS NET C.G. ACCEL. Z , RMS: 0.95
INPUT Y , RMS: 2.16


HIRDLS Y-Axis Random (Q=20), .02 g^2/Hz Limit <50 Hz, .08 g^2/Hz >50<80 Hz for GRID 303727
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
ASD
g²/Hz
1.00E+01
1.00E+02
1.00E+03
Frequency (Hz)
HIRDLS NET C.G. ACCEL. Y , RMS: 1.33
GRID 301941 NEAR CCU Y , RMS: 2.81
GRID 302139 NEAR CCU (G) Y , RMS: 3.31
GRID 303727 NEAR EEA (G) Y , RMS: 3.03
GRID 303779 NEAR TEU (G) Y , RMS: 3.31
GRID 304111 CSS RADIATOR PANEL (G) Y , RMS: 3.46
INPUT Y , RMS: 2.16

HIRDLS Z-Axis Random (Q=20), .01 g^2/Hz Limit <100 Hz, for GRID 302139 & 303779							
				CDA	Ratio,	VLA	Ratio
		1-sigma	3-sigma	w MECO	Random/CDA	w/o MECO	Random/VLA
HIRDLS NET C.G. ACCEL.	X	0.71	2.12	7.22	0.29	2.91	0.73
(G'S & RAD/SEC^2)	Y	0.56	1.67	1.72	0.97	1.57	1.06
	Z	1.34	4.03	1.65	2.44	1.55	2.61
	RX	10.92	32.76	15.68	2.09	14.53	2.25
	RY	12.05	36.14	9.58	3.77	9.24	3.91
	RZ	13.90	41.71	10.23	4.08	8.66	4.82
HIRDLS NET I/F FORCE	FX	291.89	875.67	n/a	#VALUE!	n/a	#VALUE!
(LB, IN-LB)	FY	229.55	688.66	n/a	#VALUE!	n/a	#VALUE!
	FZ	554.00	1662.01	n/a	#VALUE!	n/a	#VALUE!
	MX	16452.05	49356.16	n/a	#VALUE!	n/a	#VALUE!
	MY	26300.87	78902.60	n/a	#VALUE!	n/a	#VALUE!
	MZ	14167.04	42501.12	n/a	#VALUE!	n/a	#VALUE!
GRID 300868 TOTAL FORCE --	X	120.77	362.31	1825.98	0.20	889.48	0.41
	Y	6.61	19.83	24.79	0.80	24.06	0.82
	Z	98.30	294.89	369.21	0.80	248.53	1.19
	RX	0.87	2.61	14.38	0.18	12.79	0.20
	RY	11.13	33.40	57.93	0.58	44.35	0.75
	RZ	2.29	6.86	32.28	0.21	24.03	0.29
GRID 300869 TOTAL FORCE --	X	0.43	1.28	2.71	0.47	0.61	2.10
	Y	0.38	1.14	0.68	1.68	0.50	2.29
	Z	76.00	227.99	379.04	0.60	183.99	1.24
	RX	0.24	0.71	3.47	0.21	2.89	0.25
	RY	0.81	2.43	12.18	0.20	5.93	0.41
	RZ	0.04	0.13	0.05	2.67	0.00	33.35
GRID 300870 TOTAL FORCE --	X	3.10	9.31	18.17	0.51	15.83	0.59
	Y	101.16	303.49	779.05	0.39	473.17	0.64
	Z	173.38	520.14	384.25	1.35	362.86	1.43
	RX	22.47	67.41	84.17	0.80	53.99	1.25
	RY	2.40	7.19	13.28	0.54	12.56	0.57
	RZ	3.10	9.29	14.54	0.64	7.51	1.24
GRID 300871 TOTAL FORCE --	X	9.58	28.75	56.26	0.51	31.71	0.91
	Y	220.28	660.83	891.03	0.74	479.11	1.38
	Z	122.58	367.73	218.22	1.69	204.07	1.80
	RX	15.01	45.03	80.97	0.56	45.02	1.00
	RY	1.78	5.35	37.40	0.14	20.22	0.26
	RZ	2.39	7.18	28.00	0.26	14.34	0.50
GRID 300872 TOTAL FORCE --	X	102.46	307.38	708.78	0.43	297.68	1.03
	Y	128.13	384.39	262.04	1.47	212.77	1.81
	Z	103.58	310.74	418.93	0.74	182.14	1.71
	RX	6.88	20.64	25.27	0.82	24.41	0.85
	RY	23.70	71.10	61.89	1.15	46.44	1.53
	RZ	3.72	11.15	19.95	0.56	17.31	0.64
GRID 300913 TOTAL FORCE --	X	0.19	0.56	2.71	0.21	1.77	0.32
	Y	0.14	0.41	0.25	1.65	0.13	3.25
	Z	72.53	217.60	331.70	0.66	178.91	1.22
	RX	0.20	0.61	1.18	0.51	0.72	0.84
	RY	0.88	2.65	3.10	0.86	2.05	1.29
	RZ	0.02	0.07	0.00	#DIV/0!	0.00	32.78
GRID 300914 TOTAL FORCE --	X	0.37	1.11	2.73	0.41	2.13	0.52
	Y	0.18	0.54	0.67	0.81	0.20	2.78
	Z	65.34	196.02	208.63	0.94	119.82	1.64
	RX	0.18	0.55	1.07	0.51	0.75	0.73
	RY	0.79	2.37	4.74	0.50	1.97	1.20
	RZ	0.03	0.09	0.00	#DIV/0!	0.00	31.19

GRID 100000 ACCEL (G)	X	#DIV/0!	#DIV/0!	n/a		n/a	
	Y	#DIV/0!	#DIV/0!	n/a		n/a	
	Z	2.09	6.28	n/a		n/a	
GRID 301941 NEAR CCU	X	2.80	8.40	n/a		n/a	
	Y	1.86	5.58	n/a		n/a	
	Z	1.59	4.78	n/a		n/a	
GRID 302139 NEAR CCU (G)	X	3.46	10.37	n/a		n/a	
	Y	2.08	6.23	n/a		n/a	
	Z	1.54	4.62	n/a		n/a	
GRID 303727 NEAR EEA (G)	X	2.67	8.01	n/a		n/a	
	Y	1.98	5.94	n/a		n/a	
	Z	2.09	6.26	n/a		n/a	
GRID 303779 NEAR TEU (G)	X	1.17	3.52	n/a		n/a	
	Y	3.43	10.28	n/a		n/a	
	Z	2.11	6.32	n/a		n/a	
GRID 304111 CSS RADIATOR PANEL (G)	X	1.49	4.46	n/a		n/a	
	Y	2.47	7.40	n/a		n/a	
	Z	1.76	5.28	n/a		n/a	


HIRDLS Z-Axis Random (Q=20), .01 g^2/Hz Limit <100 Hz, for GRID 302139 & 303779
1.00E+00
1.00E-01
1.00E-02
1.00E-03
ASD
g²/Hz
1.00E-04
1.00E-05
1.00E-06
1.00E-07
1.00E-08
1.00E+01
1.00E+02
1.00E+03
Frequency (Hz)
HIRDLS NET C.G. ACCEL. X , RMS: 0.71
HIRDLS NET C.G. ACCEL. Y , RMS: 0.56
HIRDLS NET C.G. ACCEL. Z , RMS: 1.34
INPUT Z , RMS: 2.09


HIRDLS Z-Axis Random (Q=20), .01 g^2/Hz Limit <100 Hz, for GRID 302139 & 303779
1.00E+00
1.00E-01
ASD
g²/Hz
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E+01
1.00E+02
1.00E+03
Frequency (Hz)
HIRDLS NET C.G. ACCEL. Z , RMS: 1.34
GRID 301941 NEAR CCU Z , RMS: 1.59
GRID 302139 NEAR CCU (G) Z , RMS: 1.54
GRID 303727 NEAR EEA (G) Z , RMS: 2.09
GRID 303779 NEAR TEU (G) Z , RMS: 2.11
GRID 304111 CSS RADIATOR PANEL (G) Z , RMS: 1.76
INPUT Z , RMS: 2.09

HIRDLS ON FLIGHT MOUNTS, MODAL EFFECTIVE WEIGHTS ABOUT C.G.

MODE #	FREQUENCY (HZ)	X-WT. (LB)	Y-WT. (LB)	Z-WT. (LB)	I-XX (LB-IN**2)	I-YY (LB-IN**2)	I-ZZ (LB-IN**2)
1	46.86	.08	135.98	1.96	3783.	56.	3965.
2	53.99	3.73	.18	1.78	3150.	537.	324.
3	56.77	169.60	.00	43.49	39.	26622.	80.
4	63.30	3.80	10.36	1.74	4576.	2.	4512.
5	65.06	17.73	67.94	30.51	15997.	8.	10225.
6	66.61	5.52	7.89	4.18	1553.	731.	1573.
7	69.08	1.85	2.80	.14	242.	292.	7115.
8	70.63	2.81	7.83	15.51	1393.	1268.	1595.
9	80.23	2.45	7.43	3.80	706.	1422.	50451.
10	82.22	1.71	.91	78.06	283.	8929.	1179.
11	85.99	3.69	3.77	27.29	125.	393.	74.
12	87.25	16.72	18.46	61.59	434.	617.	10.
13	88.82	.47	7.34	44.28	22.	3338.	70.
14	98.06	10.07	4.05	.16	177.	29220.	2178.
15	102.05	.62	.83	4.64	10320.	2855.	6451.
16	102.70	31.98	3.80	19.60	146.	7696.	22275.
17	105.92	16.32	7.91	7.51	3290.	873.	1736.
18	111.95	2.17	.24	.01	435.	774.	160.
19	116.23	7.45	.79	3.59	229.	8951.	554.
20	120.40	1.12	30.58	.50	15676.	160.	5843.
21	125.44	2.87	5.23	3.18	3266.	310.	7210.
22	131.51	3.30	.04	.46	159.	164.	2334.
23	137.98	15.95	.89	3.83	663.	18.	1037.
24	145.83	7.87	.10	4.08	41.	765.	749.
25	146.73	11.96	.31	.76	904.	2304.	4725.
26	154.92	.07	4.37	.65	1794.	6242.	201.
27	156.88	4.67	.26	.00	2.	40.	406.
28	159.14	.05	1.09	.54	22.	256.	13.
29	160.20	6.40	.98	1.17	252.	2574.	211.
30	166.71	4.41	5.58	1.22	2436.	559.	31.
31	168.28	1.92	4.16	14.69	1064.	709.	105.
32	176.26	2.15	4.11	.08	1639.	10279.	775.
33	177.54	.28	7.94	.83	4928.	355.	1150.
34	183.38	.00	.05	.02	96.	1.	123.
35	185.98	.05	10.43	.66	948.	85.	986.
36	186.55	.04	.06	.01	1.	5.	13.
37	189.99	2.71	9.47	.72	1416.	405.	879.
38	195.77	12.16	.00	2.91	245.	4247.	156.
39	202.20	1.28	2.28	.94	1113.	748.	3083.
40	204.15	.31	9.94	.03	1204.	261.	7.
41	209.72	1.68	1.19	3.06	240.	1983.	228.
42	214.62	.03	.10	.23	14.	539.	87.
43	215.45	.24	1.97	.44	750.	1247.	192.
44	217.59	.05	.21	.81	80.	386.	55.
45	221.37	4.84	.05	1.32	91.	711.	149.
46	227.61	5.60	.39	1.87	63.	1923.	340.
47	228.43	.18	3.39	1.44	1932.	447.	116.
48	236.83	.00	.41	.79	1183.	256.	201.
49	240.13	2.07	.00	.24	0.	827.	14.
50	243.92	3.25	.04	.47	13.	2012.	304.
51	247.97	5.11	.27	.11	562.	554.	596.
52	249.47	.03	.52	.87	1082.	4.	114.
53	250.93	.28	.19	2.28	477.	5.	57.
54	257.53	.12	.10	.19	248.	27.	1.
55	258.68	.04	.02	.10	3.	8.	4.
56	263.22	.07	.93	.06	115.	9.	381.
57	264.33	.80	.02	.01	11.	2.	19.
58	273.28	.00	.53	.88	159.	4.	3.
59	275.21	.08	.36	.81	56.	55.	2.
60	280.45	.06	.25	.00	54.	48.	30.
61	293.65	.00	.13	.01	4.	93.	1.
62	298.66	.11	.92	.02	106.	8.	352.
63	300.42	.06	.00	.01	17.	129.	40.
64	306.07	.05	.00	.00	9.	123.	27.
65	313.82	.05	.01	.00	1.	255.	41.
66	318.00	.09	.69	.38	34.	45.	864.
67	318.53	.04	.05	.03	4.	29.	39.

1

HIRDLS ON FLIGHT MOUNTS, MODAL EFFECTIVE WEIGHTS ABOUT C.G.

MODE #	FREQUENCY (HZ)	X-WT. (LB)	Y-WT. (LB)	Z-WT. (LB)	I-XX (LB-IN**2)	I-YY (LB-IN**2)	I-ZZ (LB-IN**2)
68	322.49	.02	.11	.07	31.	77.	658.
69	324.93	.00	.07	.00	11.	10.	29.
70	328.83	.00	.08	.11	0.	40.	95.
71	332.98	.42	2.37	.65	174.	0.	1126.
72	336.93	.03	.02	.06	2.	126.	62.
73	341.69	.01	.03	.07	5.	2.	0.
74	345.41	.00	.01	.13	29.	299.	0.
75	346.88	.01	.07	.01	12.	22.	78.
76	351.02	.06	.52	.19	16.	48.	200.
77	354.22	.00	.04	.15	0.	33.	5.
78	356.62	.00	.01	.05	22.	64.	86.
79	364.96	.03	.02	.08	28.	64.	63.
80	365.28	.03	.00	.03	2.	4.	0.
81	367.27	.01	.03	.00	18.	2.	81.
82	372.59	.17	.52	.46	301.	131.	378.
83	381.73	.11	.00	.01	0.	18.	8.
84	386.16	.13	2.75	.02	188.	0.	479.
85	386.79	.01	.13	.77	125.	235.	143.
86	394.07	.18	.02	.60	98.	87.	215.
87	398.74	.00	.73	.25	2.	151.	288.
88	404.21	.08	.23	.01	5.	4.	15.
89	410.10	.01	.00	.00	10.	8.	78.
90	413.01	.00	.00	.01	10.	15.	137.
91	417.55	.03	.11	.01	73.	0.	340.
92	421.29	.10	.21	.01	10.	84.	4.
93	424.99	.65	.01	.04	33.	244.	12.
94	433.35	.01	1.31	.32	346.	82.	102.
95	438.59	.05	.02	.07	16.	107.	41.
96	442.56	.32	.32	.07	35.	339.	56.
97	447.85	.12	.18	.03	26.	17.	4.
98	448.79	.01	.14	.00	5.	12.	2.
99	450.38	.00	.06	.00	10.	0.	35.
100	453.15	.03	.01	.00	8.	0.	62.
101	455.92	.12	.00	.03	5.	233.	30.
102	461.35	.34	.06	.00	12.	262.	21.
103	465.12	.00	.25	.00	27.	5.	111.
104	466.47	.01	.00	.01	0.	12.	19.
105	472.77	.00	.08	.00	18.	10.	153.
106	478.54	.07	.00	.00	7.	70.	20.
107	479.87	.06	.01	.02	3.	8.	1.
108	483.27	.00	.03	.22	20.	4.	59.
109	485.89	.01	.02	.03	11.	21.	6.
110	490.79	.00	.03	.00	7.	4.	0.
111	494.12	.12	.02	.00	0.	122.	1.
112	494.54	.16	.20	.05	7.	134.	0.
113	497.76	.09	.02	.00	5.	71.	4.

TOTAL PARTICIPATION

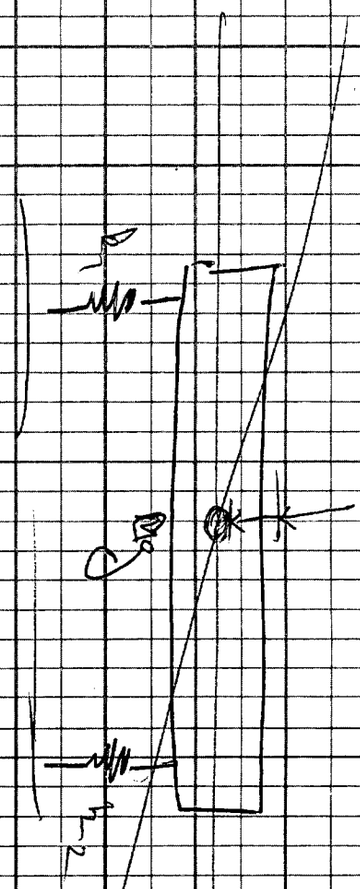
406.91	410.01	408.19	93850.	140083.	154131.

C.G. RIGID BODY MASS MATRIX

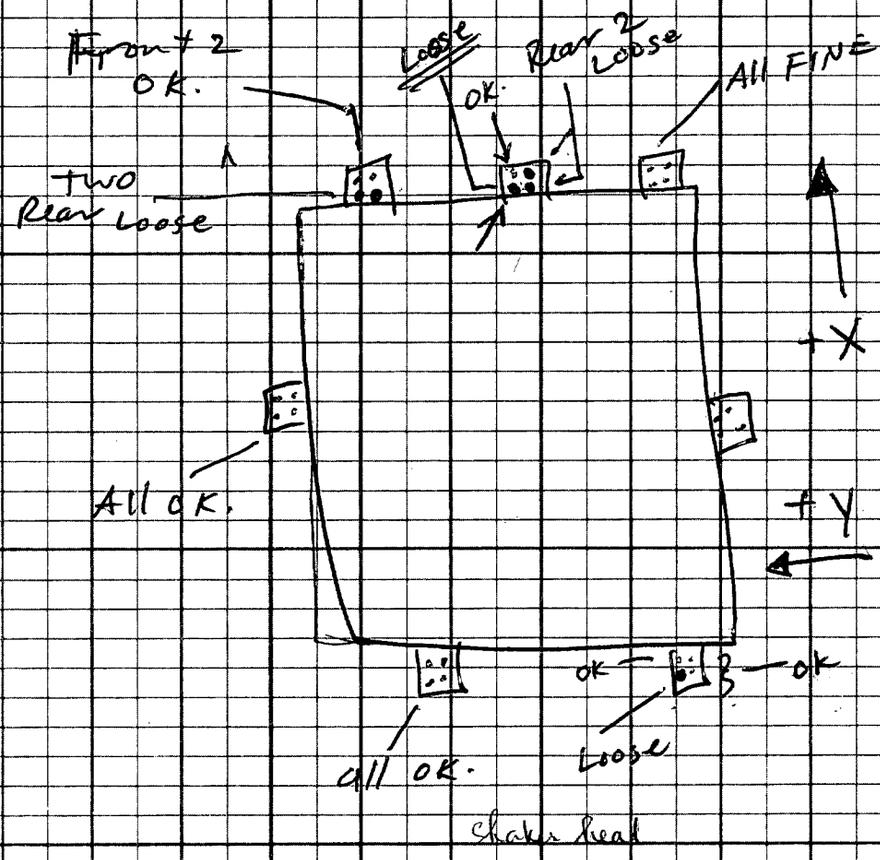
412.08	.00	.00	0.	0.	0.
.00	412.08	.00	0.	0.	0.
.00	.00	412.08	0.	0.	0.
.00	.02	-.01	94998.	4380.	6629.
-.02	.00	-.01	4380.	142949.	-192.
.01	.01	.00	6629.	-192.	155479.

80 COLUMN WORK SHEET

MODULE | ORGN. | BLDG. | FAC. | PAGE OF | PROGRAMMER | ORGN. | EXT. | JOB NO. | REQUEST DATE | DISPATCH NO. | PROGRAM/DESCRIPTION | OPER. CONTROL NO. | DATE NEEDED | PRIORITY



Mapping of Bolt torque after the Z-axis Run (Vertical)
Jim (the I&T Tech)



1) check torque before full level
2) Accel F1, channel 57 - rattling

HIRDLS OPERATIONS ORDER Removal and Installation of Accelerometers for the HIRDLS Instrument Level Vibration Testing	OPERATIONS ORDER No: OO-LOC-1130 Charge No: K1-BOC4-0001	PART No 1A27800 DRAWING No:1A27800 Rev: SERIAL No: Verification Item No:

OPER	ORGN	OPERATION DESCRIPTION	PQC	ACCEPT
		Use of hazardous materials shall be in strict compliance with LMSC S&IH Standards. Observe all safety rules for your work area. **Contamination Control Required:** Refer to HIRDLS Contamination Control Plan, Doc # PA-HIR-006 B. **Electro Static Discharge (ESD) Caution:** Follow ESD handling procedures. Refer to LAC 3250. **NOTES:** Accept column letter codes: "I" LMMS Inspection Hold Point (A-Stamp) "Q" LMMS Quality Engineer Inspection/Verification "S" LMMS Safety Engineer Hold Point "D" NASA Rep. (DCMC) Inspection Hold Point DCMC requires prior notification. Call 4-5362 for coverage: 2-hours for Inspection 8-hours for Acceptance Testing 2-Days for Weekend Coverage Deletions, bypasses, and redlines must be clearly indicated, signed by the RE and QE, and dated. Each step must be initialed or PQC-stamped and dated at completion.		

ORIGINATION DATE: May 17, 2002	Originator: Hang Nguyen X 6/21/02	Cntml Control Approval: S.B. Meyer X 20 Jun 02	PA Approval: A. McField X 6/21/02
	Originator Acceptance: H. Nguyen	PA Final Acceptance: A. McField X	DMO:

HIRDLS OPERATIONS ORDER CONTINUATION PAGE	OPERATIONS ORDER No: OO-LOC-0669 Charge No: K1-BOC4-0001	PART No: 1A27800 SERIAL No:

OPER	ORGN	OPERATION DESCRIPTION	PQC	ACCEPT
		FOR YOUR SAFETY AND THE SAFETY OF OTHERS, OBSERVE THE SAFETY RULES FOR YOUR WORK AREA.		
		Caution: This hardware is contamination controlled. Protect H/W using cleanroom approved packaging material throughout this test, transportation, and handling. All tools and GSE that contact the instrument need to be cleaned to prevent contamination of Instrument.		
0001		Notify DCMA at least 2 Hours prior to the start of the Vibration Test Preparations.		
0002		Describe pretest preparations, Log OO in Logbook, install shorting plugs, ESD packaging, transportation, contamination control, etc.		
0003		Conduct the Pretest Briefing with Key Personnel.		
0004		Perform the following operations in a Class 10K cleanroom (per Fed-Std-209), or better.		
0005		Perform Pre-Test Limited/Comprehensive Functional Test on the HIRDLS PFM Instrument per Procedure TP-LOC-758.		Q/I
0006		Remove and package Instrument Witness samples prior to packaging instrument. Submit witness samples to M&P laboratories for analysis. Record lab request number:_____	CCE:_____	

HIRDLS OPERATIONS ORDER CONTINUATION PAGE	OPERATIONS ORDER No: OO-LOC-0669 Charge No: K1-BOC4-0001	PART No: 1A27800 SERIAL No:

OPER	ORGN	OPERATION DESCRIPTION	POC	ACCEPT
0007		Cover the HIRDLS PFM Instrument in ESD cleanroom packaging material except for mounting pads, which are exposed. Use Kapton tape or 3M 850 to seal edges of packaging material to the instrument at mounting openings. Only mounting feet should be exposed. Seal packaging material completely to protect the instrument cleanliness.		
0008		Prior to installation, confirm all accelerometers are in calibration. Remove and replace installed accelerometers, except Accelerometer A2, which is inaccessible, as required, to assure installed accelerometers are in calibration. Perform removal and re-installation per OI1102-SV. Install accelerometers in cleanroom prior to transportation to vibration laboratory B156C. Accelerometers may be installed prior to packaging or after packaging by cutting a small opening in the packaging material to allow access to the instrument surface for bonding. After packaging, open a small hole in the packaging material, approximately 2"X2", or smaller, to allow accelerometer installation. Tape edges of packaging material to instrument to prevent contamination entering packaged instrument. Refer to TP-LOC-847 Rev. B for diagrams of accelerometer locations. Install accelerometer A2 near TEU location, A3 to upper +Y panel, A4 to mid +Y panel and A5 to CCU. Use Black Max epoxy for bonding, bond per OI1102-SV. Do not abrade bond surface before bonding. Test accelerometers per OI1102-SV. Photograph Accelerometer setup and attach a copy of the photo to this document.		

HIRDLS OPERATIONS ORDER CONTINUATION PAGE	OPERATIONS ORDER No: OO-LOC-0669 Charge No: K1-BOC4-0001	PART No: 1A27800 SERIAL No:

OPER	ORGN	OPERATION DESCRIPTION	PQC	ACCEPT
0010		Place the HIRDLS PFM Instrument into 2nd ESD bag and prepare for transport per TP-LOC-398 Rev B and OO-LOC-1028. Backfill purge per N2 purge plan (TP-LOC-0904).		Q/I D
0015		Install trip indicators on the instrument shipping container and shipping container for Handling Fixture. Photograph/Record location of Indicators. Record accelerometer values.		
0025		Transport the packaged HIRDLS PFM Instrument to Sunnyvale Test Laboratory, Bldg 156C.		
0026		Move instrument shipping container to the vibe cell receiving area, and uncrate and unpackage per TP-LOC-398 Rev B and OO-LOC-1028. Start N2 purge per TP-LOC-0904. Always leave one layer of packaging material on the instrument throughout the testing. Read out shock recorder data and other shipping sensor, recorders, and examine for anomalies. Attach data to this document.		
0027		Perform bare fixture vibe test.		
0030		Torque (28) ¼" screws to install interface GSE to vibe fixture to 30 in-lbs per TP-LOC-847 Rev B. This assumes that the Kinematic Mounts (KMs) are already installed to the interface GSE. Perform move of instrument from shipping container to shaker table, per TP-LOC-398 Rev B, andTransportation Op. Order OO-LOC-1028. Torque (28) #10-32 screws in the installation of the HIRDLS PFM Instrument to the KMs to 12 in-lbs per TP-LOC-847 Rev B. Use torque wrench CAL-30A. Calibration due _____.		Q/I D

HIRDLS OPERATIONS ORDER CONTINUATION PAGE	OPERATIONS ORDER No: OO-LOC-0669 Charge No: K1-BOC4-0001	PART No: 1A27800 SERIAL No:

OPER	ORGN	OPERATION DESCRIPTION	PQC	ACCEPT
0033		Remove contamination witness samples prior to vibration testing, if present. Retain for next use. There should be no witness samples 'inside' the packaging material.		
0035		Perform Vibrations Testing on the HIRDLS PFM Instrument per Test Procedure, TP-LOC-847 Rev B.		
0040		Verify completion of Vibration Testing.		I D
0042		Add second ESD bag to HIRDLS PFM Instrument for transport to B205 Clean Room Palo Alto Facility.		
0043		Install the HIRDLS PFM Instrument in shipping container per TP-LOC-398 Rev B and OO-LOC-1028. Backfill purge per TP-LOC-0904. Install, check, and/or start shipping recording sensors such as the shock-recorder.		
0050		Transfer the HIRDLS PFM Instrument to B205 Clean Room per TP-LOC-398 Rev B and OO-LOC-1028.		
0053		Uncrate, unpackage and install the HIRLDS PFM Instrument onto optical bench per TP-LOC-398 Rev B and OO-LOC-1028. Read all shipping recording sensors and examine data for anomalies. Attach data to this document.		
0055		Perform Post-Test Limited/Comprehensive Functional on HIRDLS PFM Instrument per Procedure TP-LOC-758.		I/Q
0056		In cleanroom Class 100, remove bagging to remove all the accelerometers except A2, which is inaccessible per OI1102-SV		

HIRDLS OPERATIONS ORDER CONTINUATION PAGE	OPERATIONS ORDER No: OO-LOC-0669 Charge No: K1-BOC4-0001	PART No: 1A27800 SERIAL No:

OPER	ORGN	OPERATION DESCRIPTION	PQC	ACCEPT
0057		Use clean kapton tape and tape residue off the surface of the instrument using IPA solvent wiping and cleanroom wipers.	CCE	
0059		Re-install aperture OWS (optical witness sample) and record date and time.	CCE	
0060		Disposition HIRDLS PFM Instrument post functional testing.		
0063		Contact thermal vacuum personnel Randy Kays (4-5667) or Mike Spier (as an alternate, 408-398-3402) per OO-LOC-0859 at the completion of the HIRDLS instrument level vibration testing.		
0065		REE and QE close Ops Order and close logbook entry.		

TR-LOC-1025
Volume 2

HIRDLS Instrument

Vibration Test

Data

Y Axis

80 COLUMN WORK SHEET

MODULE	ORGN.	BLDG.	FAC.	PAGE OF	PROGRAMMER	ORGN.	EXT.	JOB NO.	REQUEST DATE	DISPATCH NO.	PROGRAM/DESCRIPTION	OPER. CONTROL NO.	DATE NEEDED	PRIORITY

Y-axis Vib [Monday, 6/24/02]

1) Chanel 45 is still bad; do not use ~~the chan~~ test data for this chanel.

2) Chanel 34 (A1Y) was ~~used~~ designated as the Random Notch/Limit accelerometer.

However, Chanel 34 (A1Y) went bad; And caused a shut down at a few seconds into the -6 db Random Vib. This is a fail-safe ~~feature~~ (shut down) feature.

— Evaluated data of chanel 34 (A1Y) and chanel 37 (RA1Y).

The data concluded: ~~that~~

1) Chanel 34 (A1Y) went bad. Do Not use data from chanel 34 after the -12 db. Random

2) Use the redundant acc. (RA1Y) chanel 37 as the new Limit accelerometer.

— Performed -6 db and 0 db random vib with the chanel 37 as the Random test Limit accelerometer.

LOCKHEED AIRCRAFT CORPORATION

FORM LMSC 2374-2

80 COLUMN WORK SHEET

MODULE	ORGN.	BLDG.	FAC.	PAGE OF	PROGRAMMER	ORGN.	EXT.	JOB NO.	REQUEST DATE	DISPATCH NO.	PROGRAM/DESCRIPTION	OPER. CONTROL NO.	DATE NEEDED	PRIORITY

Y- axis (Monday June 24, 2002)

Mount interface plate to shaker slip	12:00 Noon	Channel A3 45, not use as primary Use 48 as primary
Base Fixture 1/4 g Sine Sweep	3:30 PM	
Mount the ~~interface~~ Instrument case to fixture plate	5:32 PM	
1/4 g Sine sweep	6:00 PM	
Random Vibration -12dB	6:45 PM	
Random Vibration -6 dB	7:15 PM	Notching
Check torque	8:00 PM	
Random vibration 0dB	9:00 PM	
Check torque	9:45 PM	
1/4 Sine Sweep	10:05 PM	
Sine Sweep	11:35 PM	
Check Torque	11:58 PM	
1/4 g Sine Sweep	12:20 AM Tuesday 6/25/02	
Remove test article from the shaker table		

For the report

Channel 45 data is disqualified Bad data

To Talk

Minh Phan
(301) 286-8325 (W)
office 2256 (W)
No's
(202) 491-8167 mobile
1-888-849-8335 pager

LOCKHEED AIRCRAFT CORPORATION

FORM LMSC 2374-2

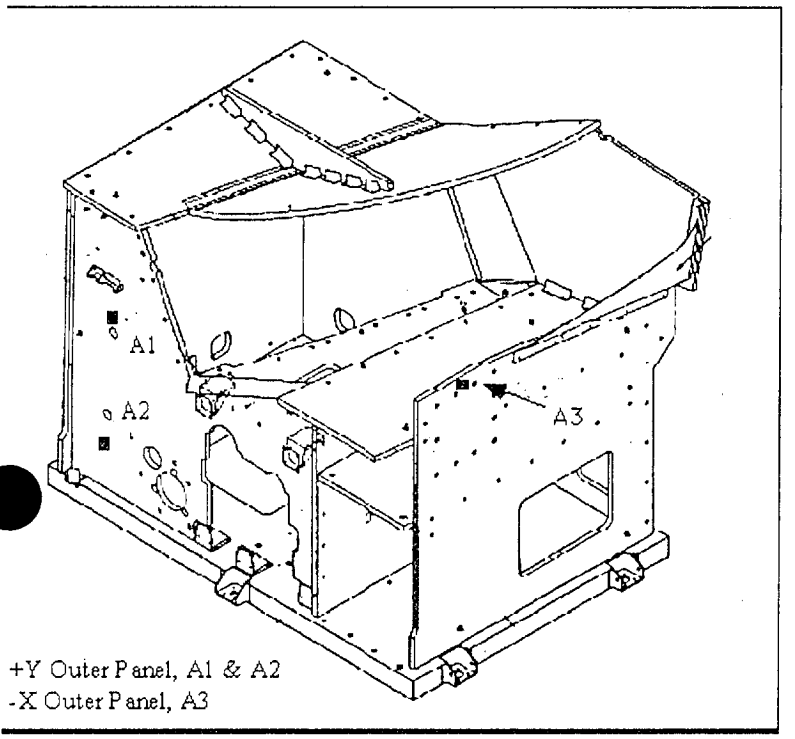
INSTRUMENTATION FOR HIRDLS INST. VIBRATION TEST

H. Nguyen/T. Curry 6/22/2002

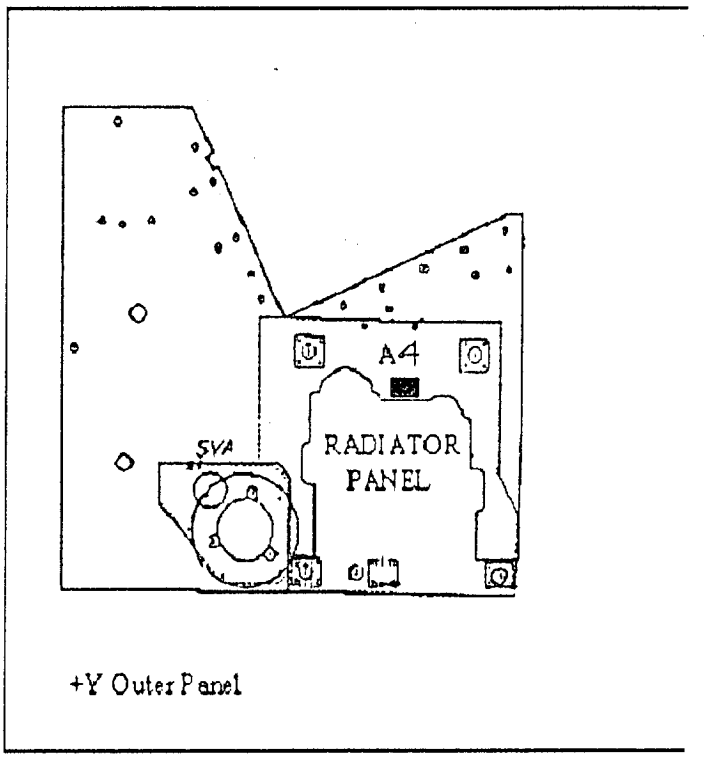
Accel No.	Location	Axes			Channel	Reserve
A1	Positive Y Panel, Near EEA	X	>=====>	CH:	33	36
	Positive Y Panel, Near EEA	Y	>=====>	CH:	34	37
	Positive Y Panel, Near EEA	Z	>=====>	CH:	35	38
A2	Positive Y Panel, Near TEU	X	>=====>	CH:	39	42
	Positive Y Panel, Near TEU	Y	>=====>	CH:	40	43
	Positive Y Panel, Near TEU	Z	>=====>	CH:	41	44
A3	Negative X Panel, Near CCU	X	>=====>	CH:	45	48
	Negative X Panel, Near CCU	Y	>=====>	CH:	46	49
	Negative X Panel, Near CCU	Z	>=====>	CH:	47	50
A4	Positive Y Panel, Near CMA	X	>=====>	CH:	51	54
	Positive Y Panel, Near CMA	Y	>=====>	CH:	52	55
	Positive Y Panel, Near CMA	Z	>=====>	CH:	53	56
A5	Kinematic Mount KM3, GSE	X	>=====>	CH:	7	N/A
	Kinematic Mount KM3, GSE	Y	>=====>	CH:	8	N/A
	Kinematic Mount KM3, GSE	Z	>=====>	CH:	9	N/A
A6	Kinematic Mount KM3, HIRDLS Instrument Base Plate	X	>=====>	CH:	10	N/A
	Kinematic Mount KM3, HIRDLS Instrument Base Plate	Y	>=====>	CH:	11	N/A
	Kinematic Mount KM3, HIRDLS Instrument Base Plate	Z	>=====>	CH:	12	N/A
A7	Kinematic Mount KM2-Y, GSE	X	>=====>	CH:	17	N/A
	Kinematic Mount KM2-Y, GSE	Y	>=====>	CH:	18	N/A
	Kinematic Mount KM2-Y, GSE	Z	>=====>	CH:	19	N/A
A8	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	X	>=====>	CH:	20	N/A
	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	Y	>=====>	CH:	21	N/A
	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	Z	>=====>	CH:	22	N/A
A9	Kinematic Mount KM2+Y, GSE	X	>=====>	CH:	23	N/A
	Kinematic Mount KM2+Y, GSE	Y	>=====>	CH:	24	N/A
	Kinematic Mount KM2+Y, GSE	Z	>=====>	CH:	25	N/A
A10	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	X	>=====>	CH:	26	N/A
	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	Y	>=====>	CH:	27	N/A
	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	Z	>=====>	CH:	28	N/A
F1	FLY AWAY, HIRDLS INSTRUMENT HOOD	Z		CH:	57	N/A

5.1.4 Axis Alignment and Accelerometer Location

In the diagrams below (RE: Figure 5.1.4-1(a) & (b)) are provided the HIRDLS Instrument, the coordinate axes, and the approximate location of the accelerometers. (NOTE: This may be subject to change) Following that (see Figure 5.1.4-2.1 - 2.3) are depicted the Interface Fixture, Interface GSE, and the KMs respectively. The control accelerometer is not shown for clarity.



(a) Accelerometers A1, A2, & A3



(b) Accelerometer A4

Figure 5.1.4-1. HIRDLS Instrument Accelerometer Locations.

(Note: Accelerometer locations will be subject to change)

CYGinn

HIRDLS RANDOM ANALYSIS, 3/19/02

- X, Y AND Z AXIS BASEDRIVES PERFORMED TO DETERMINE NOTCHING GUIDELINES FOR HIRDLS INSTRUMENT TESTING
- ANALYSIS PERFORMED ON HIRDLS VLA MODEL WITH TRW FLIGHT MOUNT STIFFNESS INCORPORATED
- ANALYSIS PARAMETERS
  - MODES RETAINED TO 500 HZ
  - Q = 20
  - ANALYSIS INPUT PSD SPEC: .01 G^2/HZ, 20 TO 500 HZ
  - PSD LIMITS PLACED ON EXISTING ACCELEROMETER LOCATIONS TO KEEP INSTRUMENT INTERFACE LOADS CONSISTENT WITH 1.25 X CLA RESULTS
- RESULTS
  - NOTCHING WILL BE NECESSARY AT INSTRUMENT PRIMARY (HIGH MASS) MODES FOR X, Y AND Z AXIS RANDOM TESTING

-12 dB w/ notch
Adjust notch manual

  - X-AXIS: 0.04 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR TEU (GRID 303779) Chanel ~~33~~ 39
    - LIMITS PRIMARY X-AXIS MODE PREDICTED AT 56.8 HZ
  - Y-AXIS: 0.02 G^2/HZ LIMIT <50 HZ, 0.08 G^2/HZ >50<80 HZ ON ACCELEROMETER NEAR EEA (GRID 303727) Chanel 34 (37 Redundancy)
    - LIMITS HIGH MASS Y-AXIS MODES PREDICTED AT 46.9 HZ AND 65.1 HZ
  - Z-AXIS: 0.01 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR CCU (GRID 302139) AND ACCELEROMETER NEAR TEU (GRID 303779)
    - LIMITS HIGH MASS Z-AXIS MODES AT 56.8 HZ, 65.1 HZ, AND 82.2 HZ TO 88.8 HZ

CCU chanel 47 + 50 TEU chanel 41 or 44

- RESPONSES ARE BASED ON ANALYTICAL PREDICTIONS AND MAY NEED ADJUSTING DURING TESTING
  - ACTUAL INPUT NOTCHES DURING TESTING SHOULD NOT EXCEED 14 DB
- RESPONSE SUMMARIES, PLOTS, AND MODAL EFFECTIVE WEIGHTS ARE PROVIDED IN THE FOLLOWING PAGES

LOCKHEED MARTIN MISSILES & SPACE

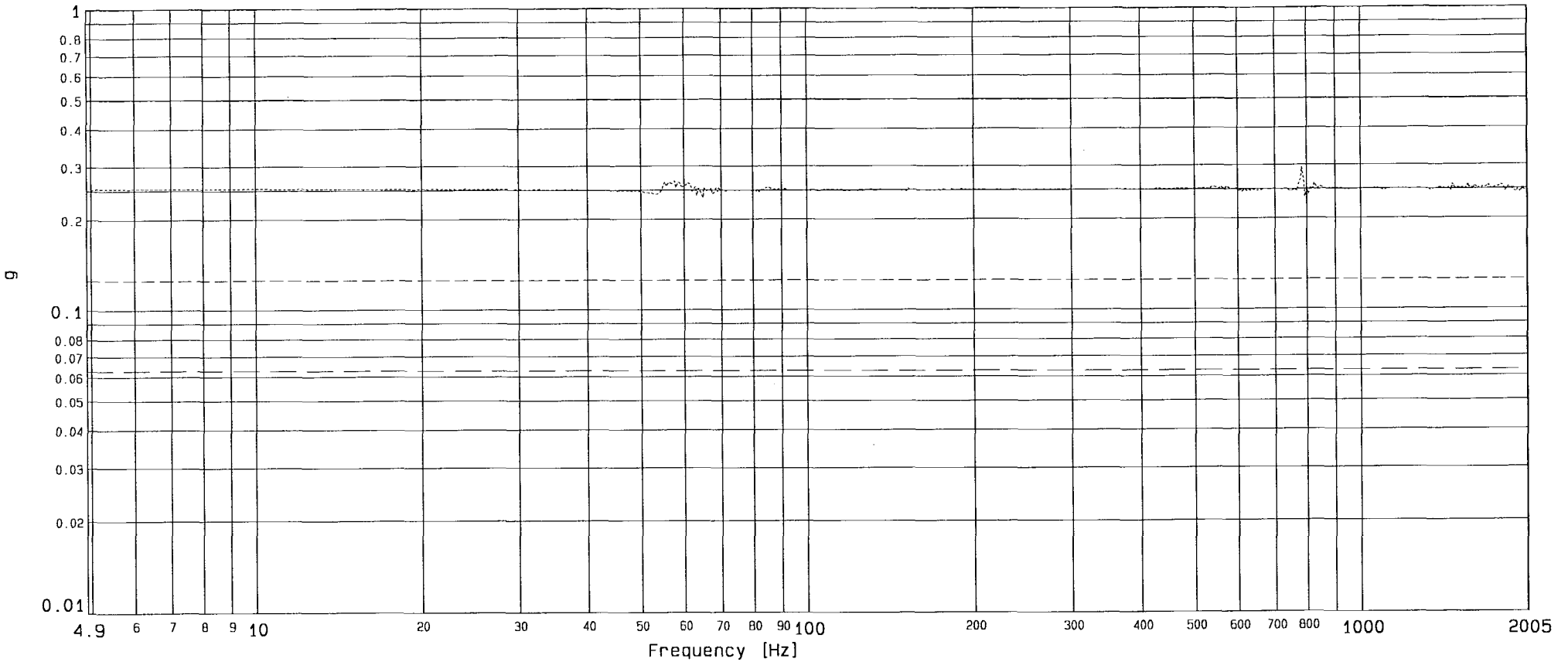
Project : hirdls
Test : Y_Signature
Run : 2 062410

Date : 24-06-02
Time : 17:53:02
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G PRE SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062410

LOCKHEED MARTIN MISSILES & SPACE

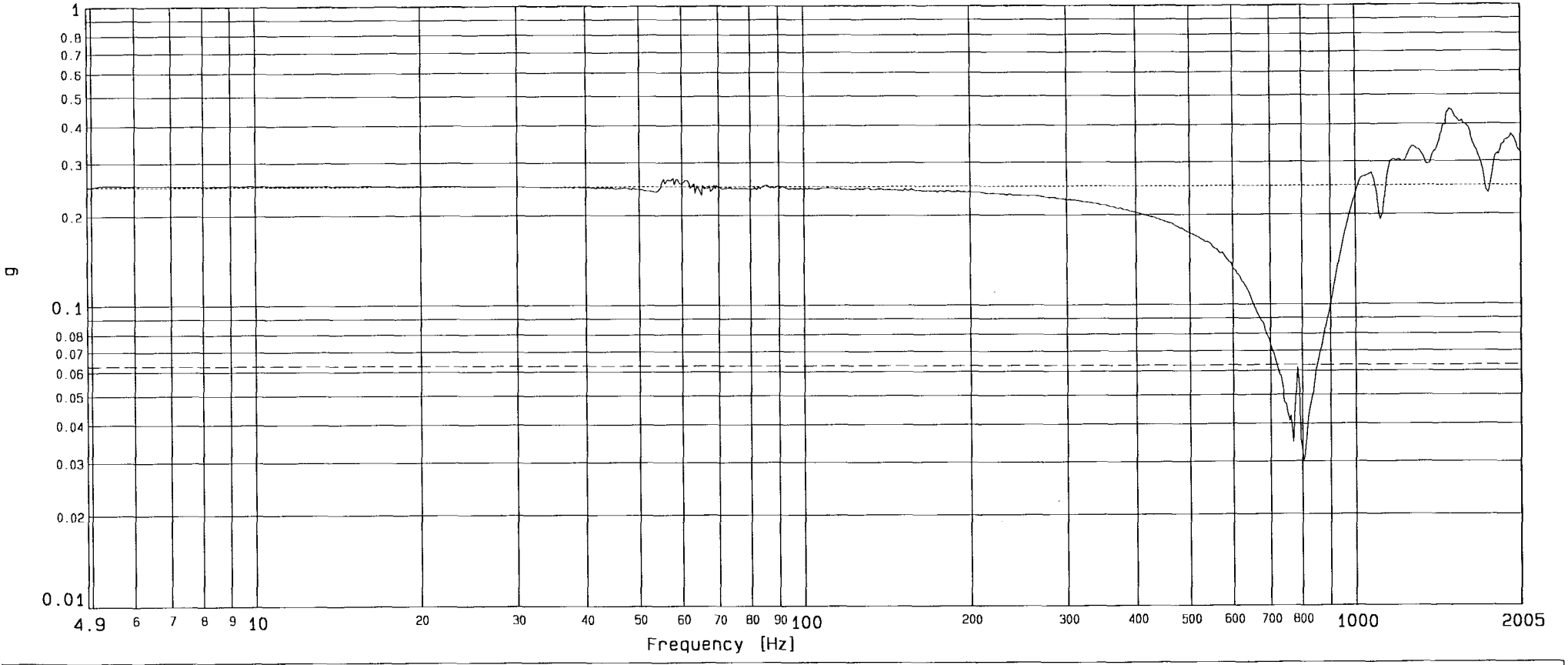
Project : hirdls
Test : Y_Signature
Run : 2 062410

Date : 24-06-02
Time : 17:53:02
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 449.58e-03 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G PRE SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062410

LOCKHEED MARTIN MISSILES & SPACE

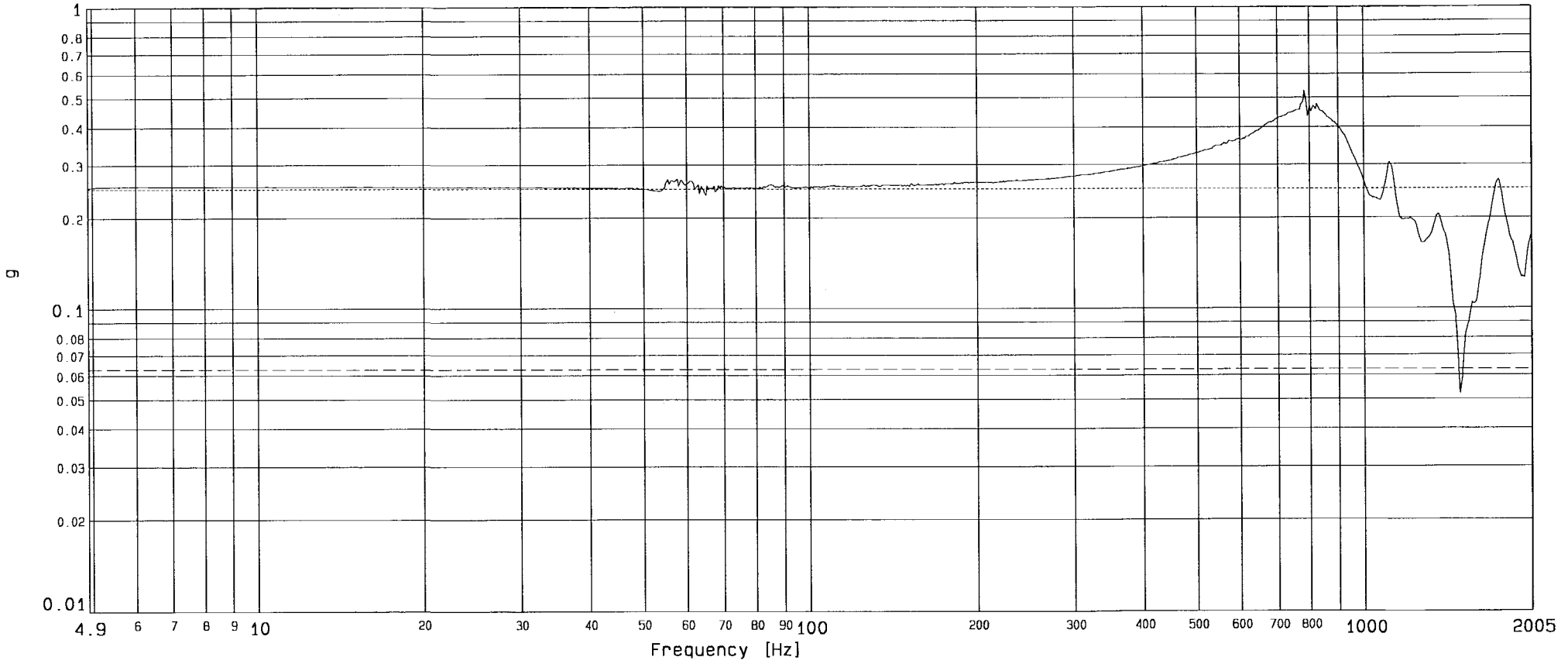
Project : hirdls
Test : Y_Signature
Run : 2 062410

Date : 24-06-02
Time : 17:53:02
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 527.19e-03 g

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G PRE SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062410

LMS

LOCKHEED MARTIN MISSILES & SPACE

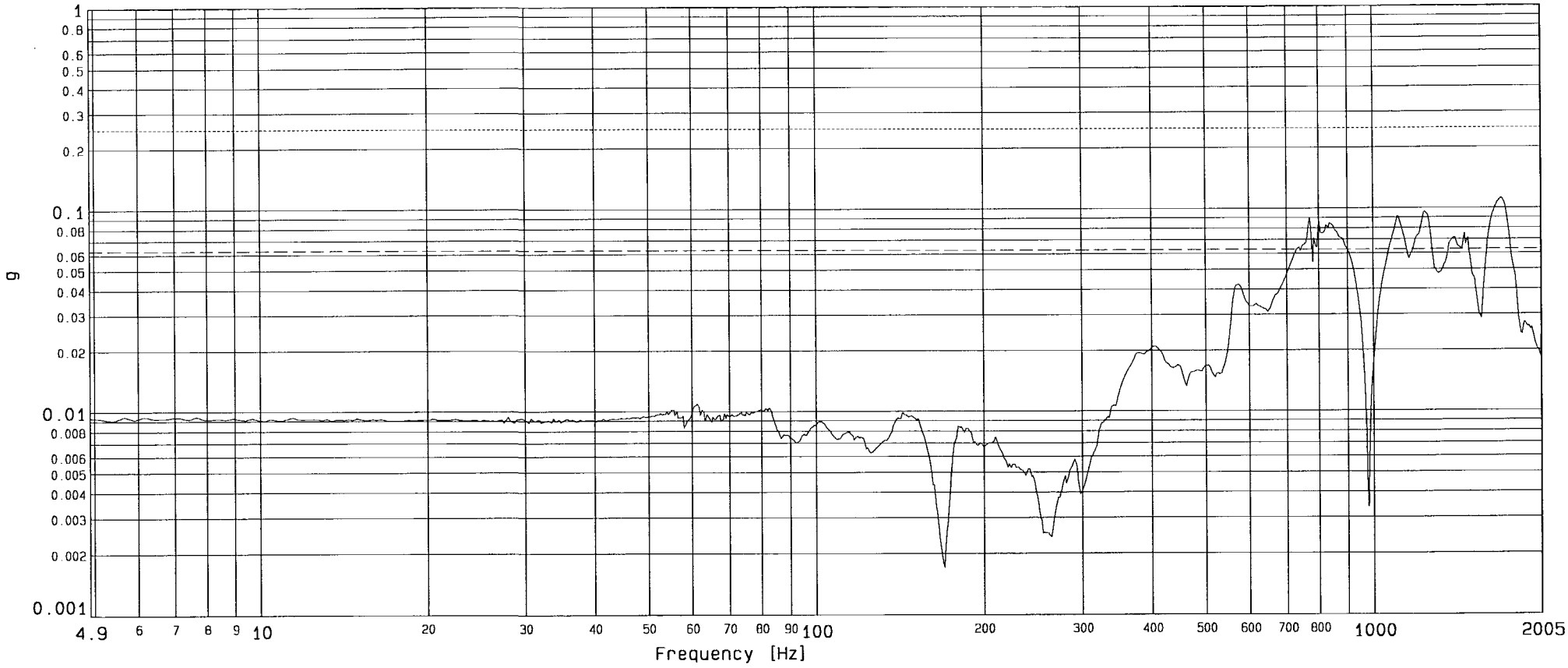
Project : hirdls
Test : Y_Signature
Run : 2 062410

Date : 24-06-02
Time : 17:53:02
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 112.05e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G PRE SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062410

LOCKHEED MARTIN MISSILES & SPACE

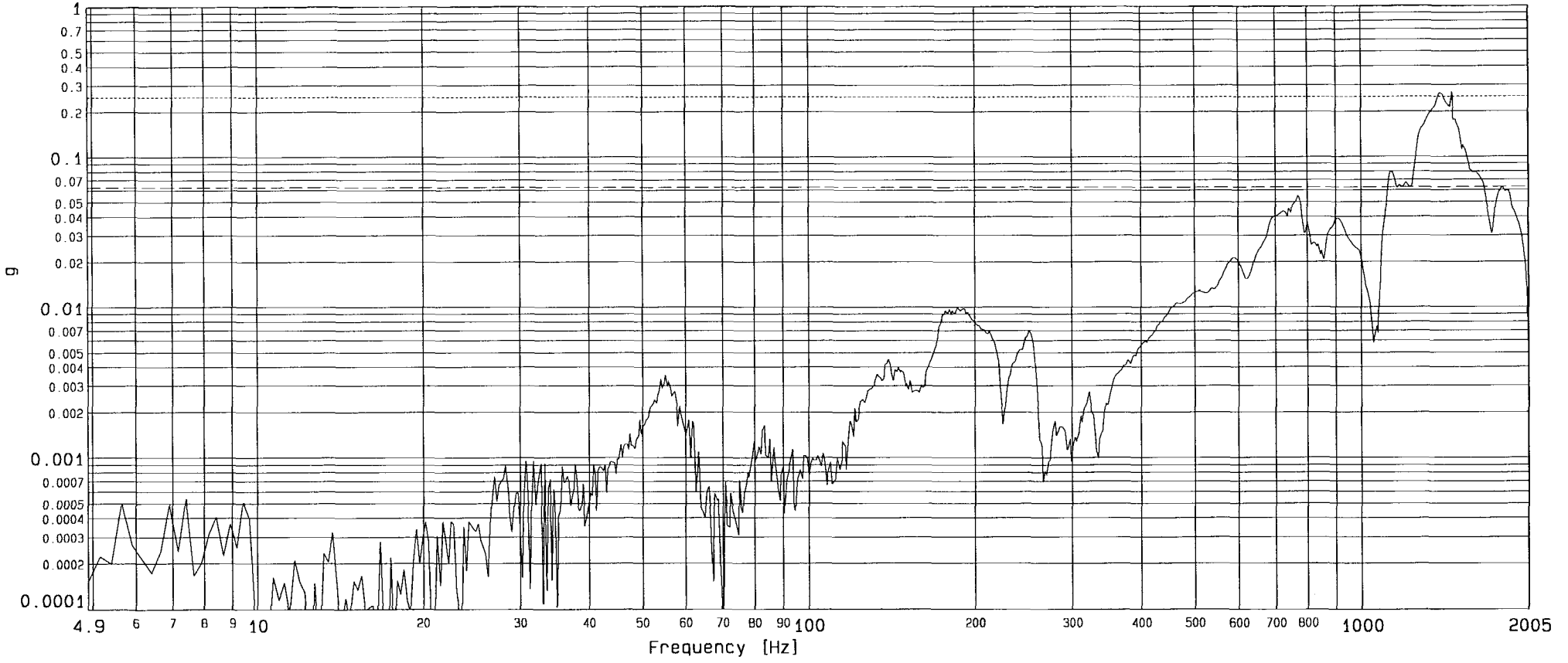
Project : hirdls
Test : Y_Signature
Run : 2 062410

Date : 24-06-02
Time : 17:53:02
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 267.37e-03 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G PRE SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062410

LMS

LOCKHEED MARTIN MISSILES & SPACE

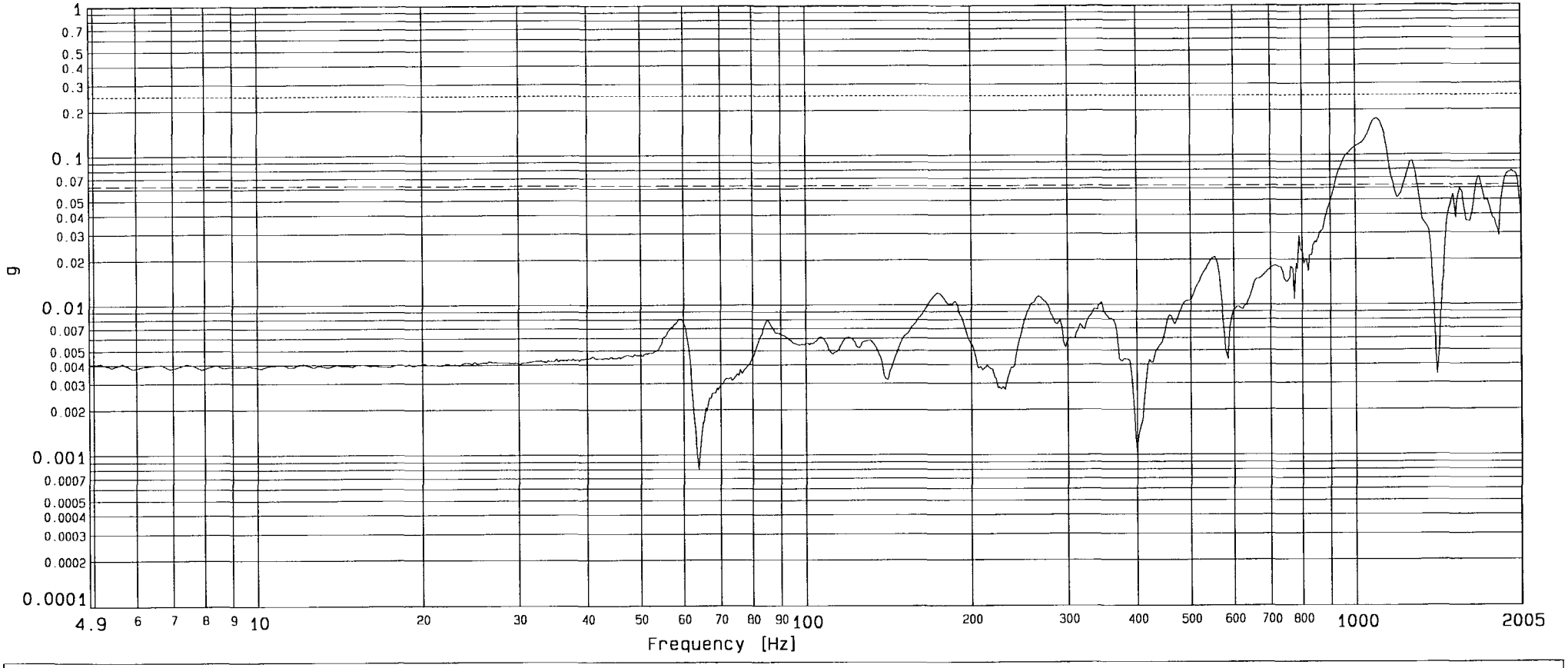
Project : hirdls
Test : Y_Signature
Run : 2 062410

Date : 24-06-02
Time : 17:53:02
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 173.94e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G PRE SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062410

LMS

LOCKHEED MARTIN MISSILES & SPACE

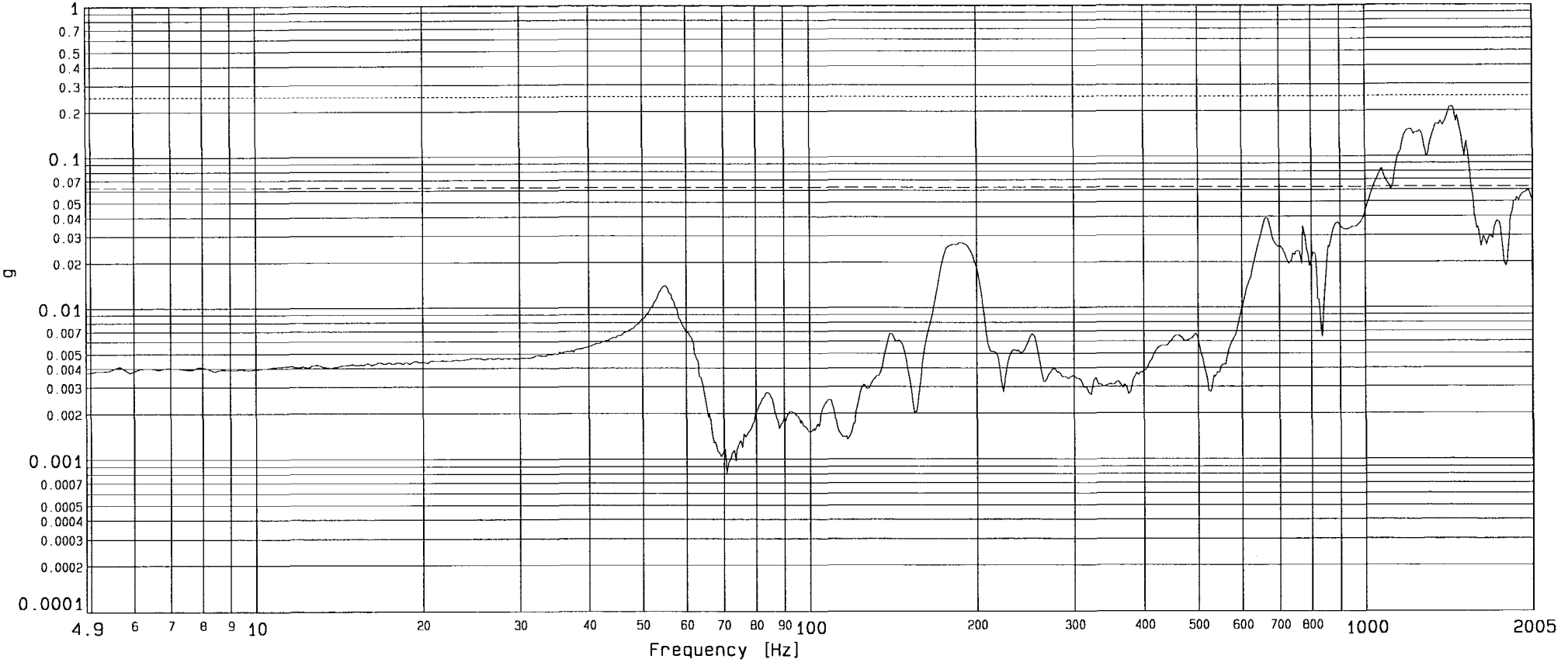
Project : hirdls
Test : Y_Signature
Run : 2 062410

Date : 24-06-02
Time : 17:53:02
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 213.51e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G PRE SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062410

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

North_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

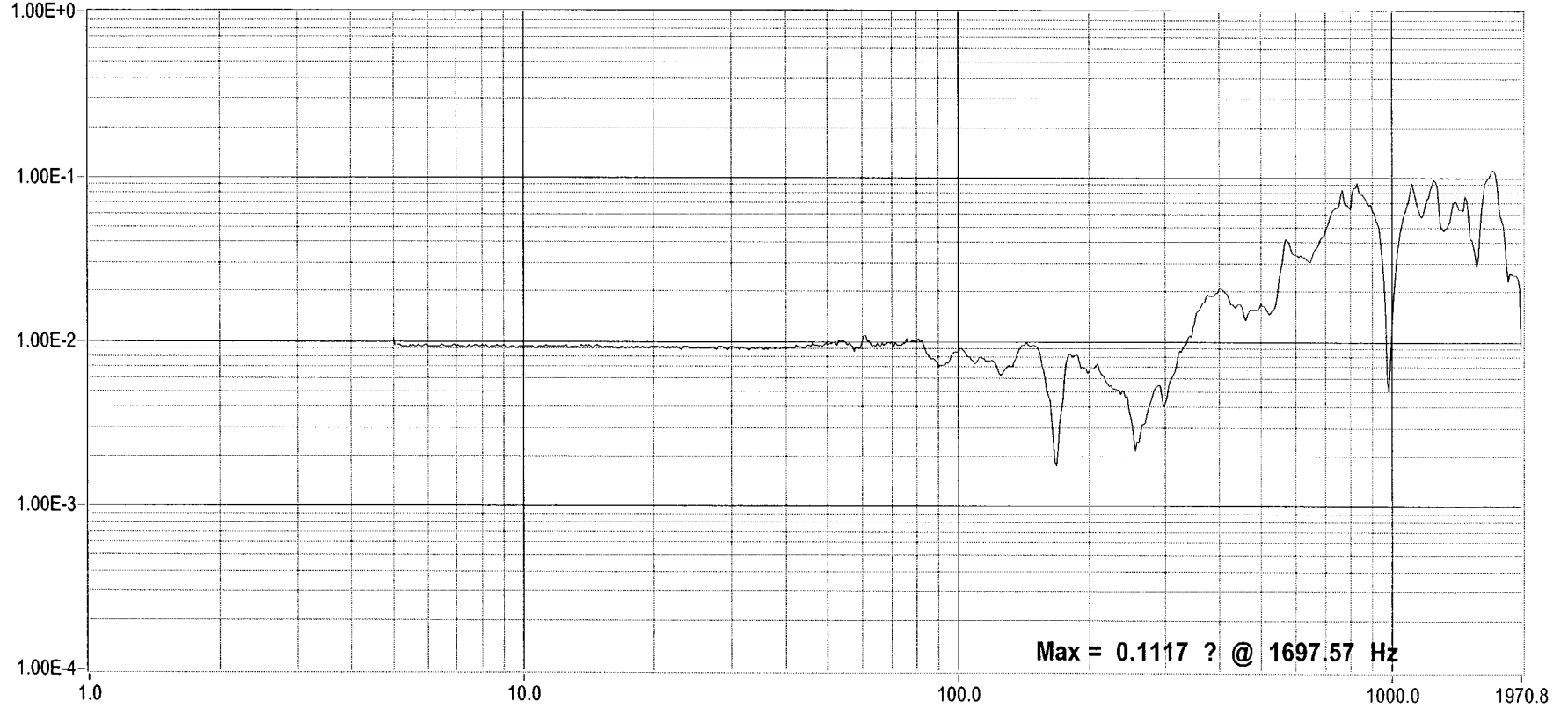
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 1 **Node Number:** 0001

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:09 PM

Frequency HZ

North_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

North_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

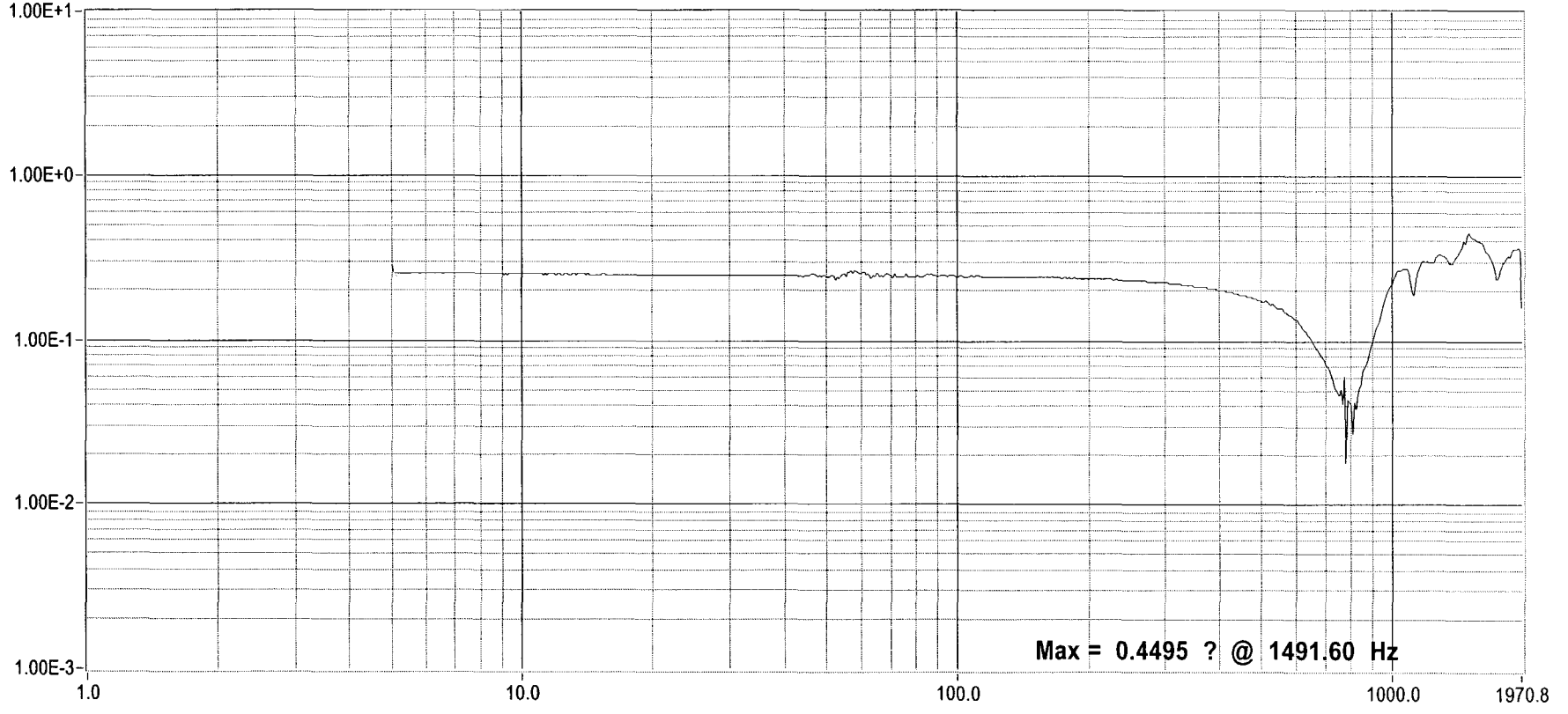
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 2 **Node Number:** 0002

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:09 PM

Frequency HZ

North_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

North_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

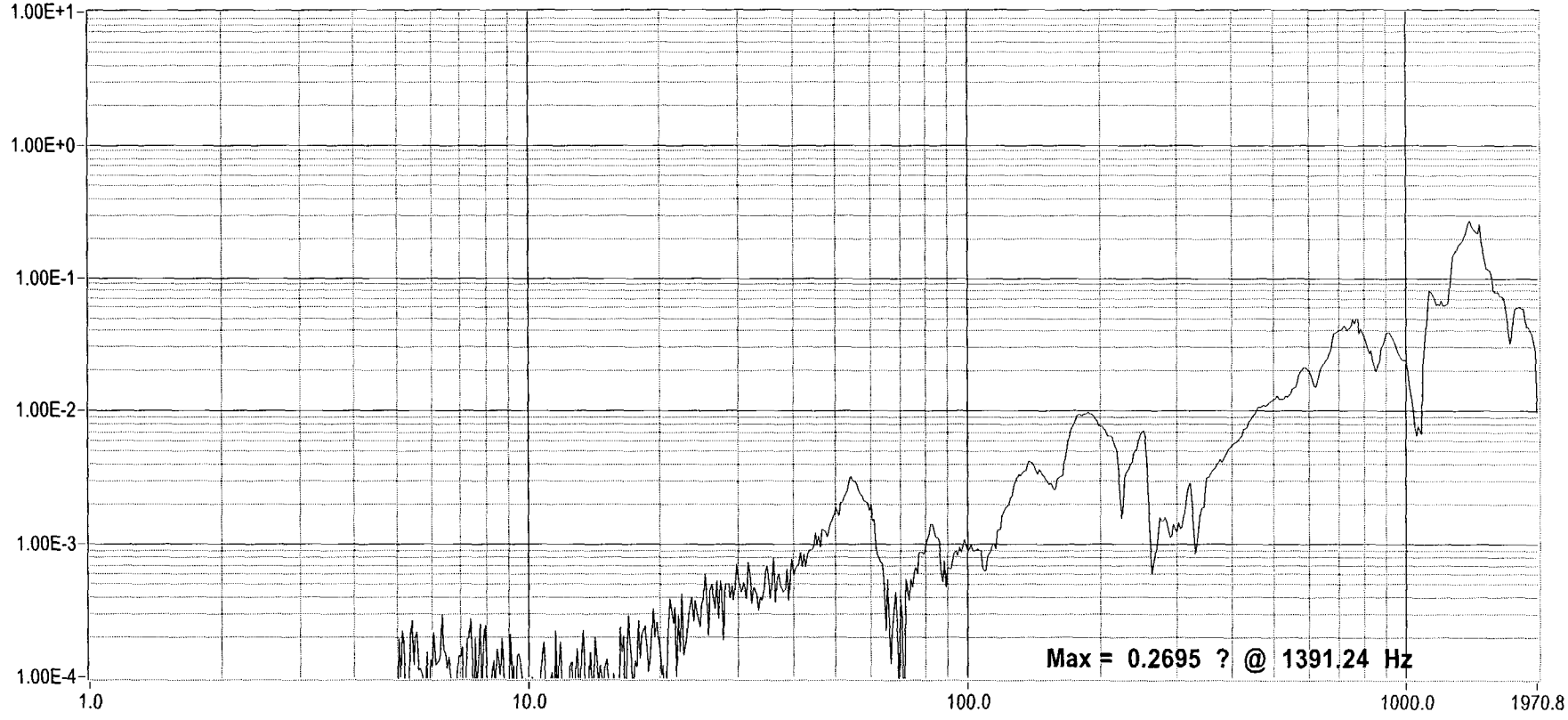
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 3 **Node Number:** 0003

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 PM

North_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

South_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

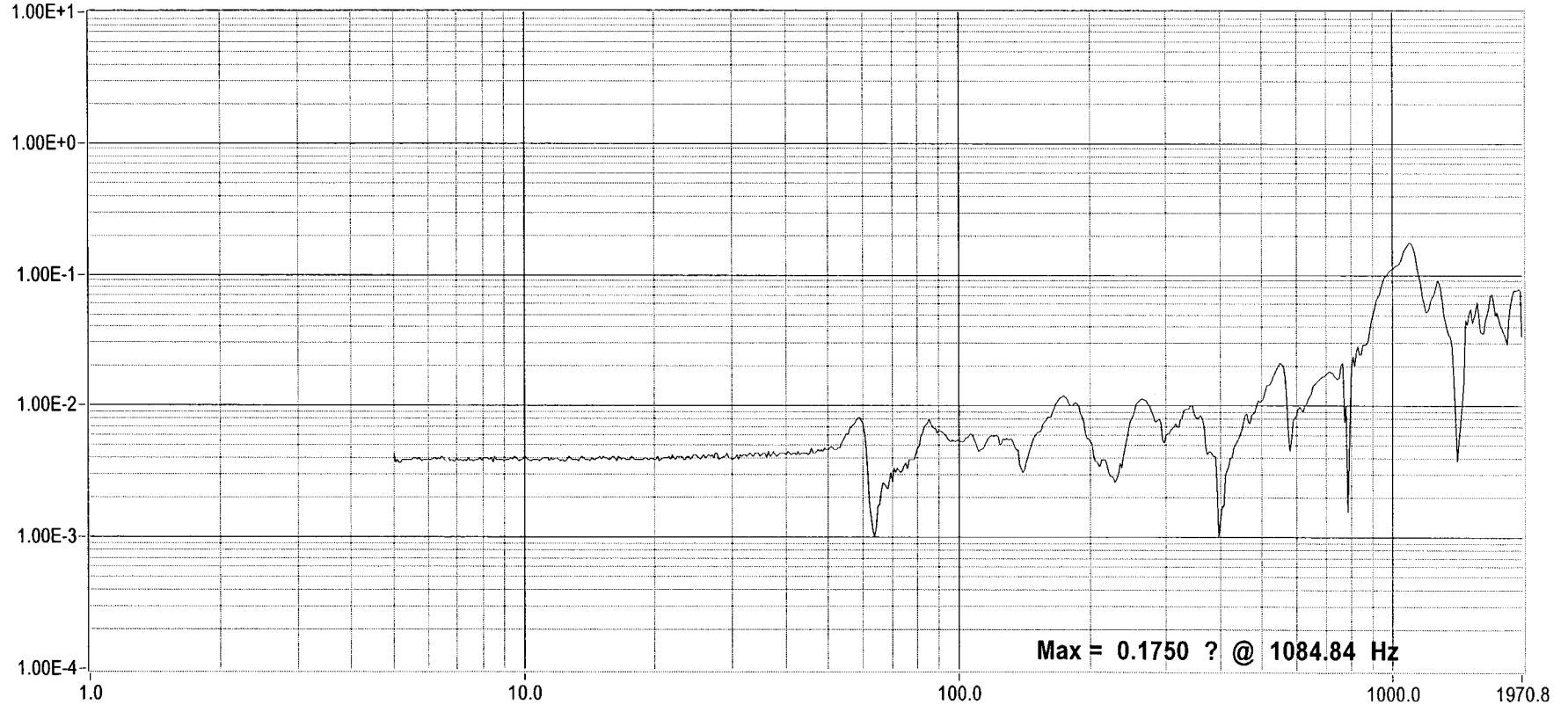
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 4 **Node Number:** 0004

Channel Description: I

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 PM

South_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

South_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

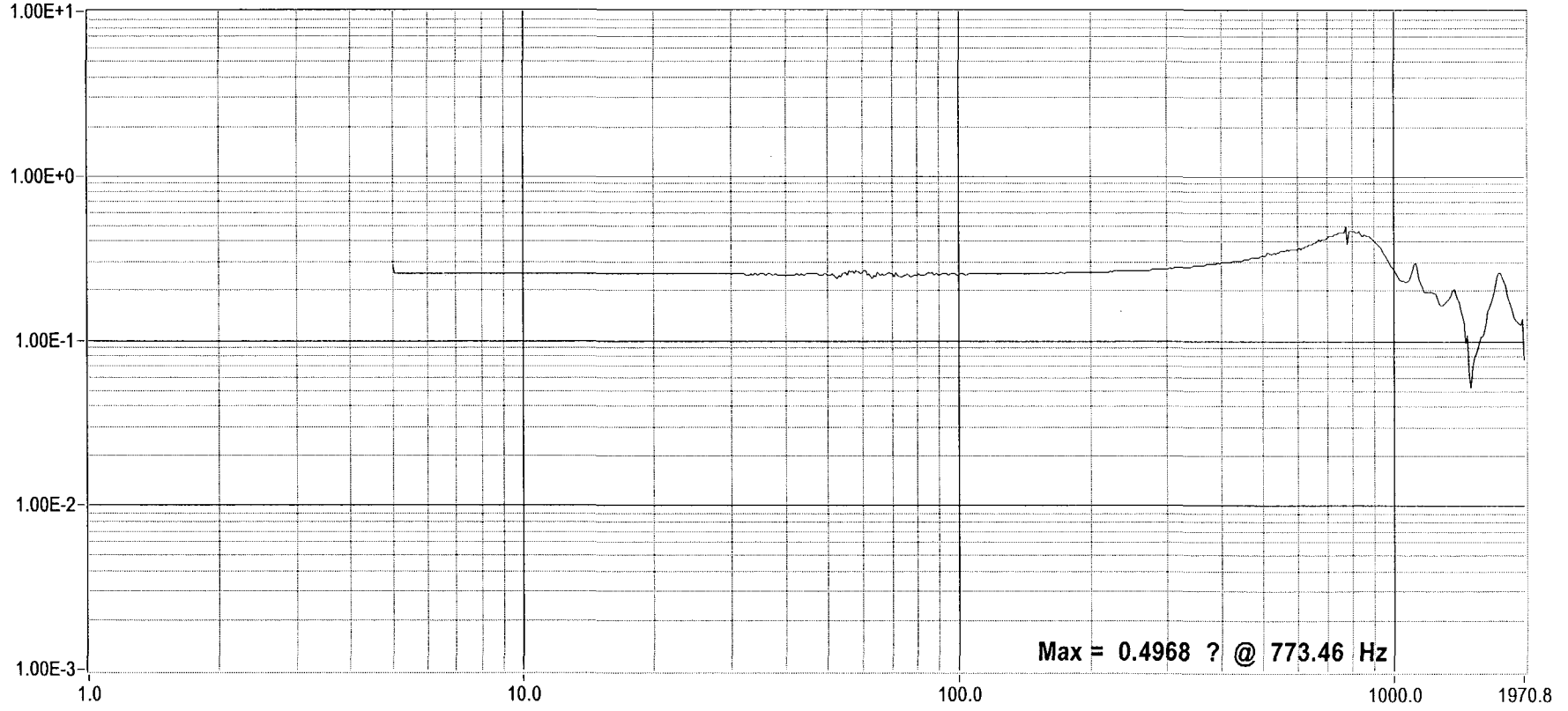
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 5 **Node Number:** 0005

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 PM

Frequency HZ

South_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

South_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

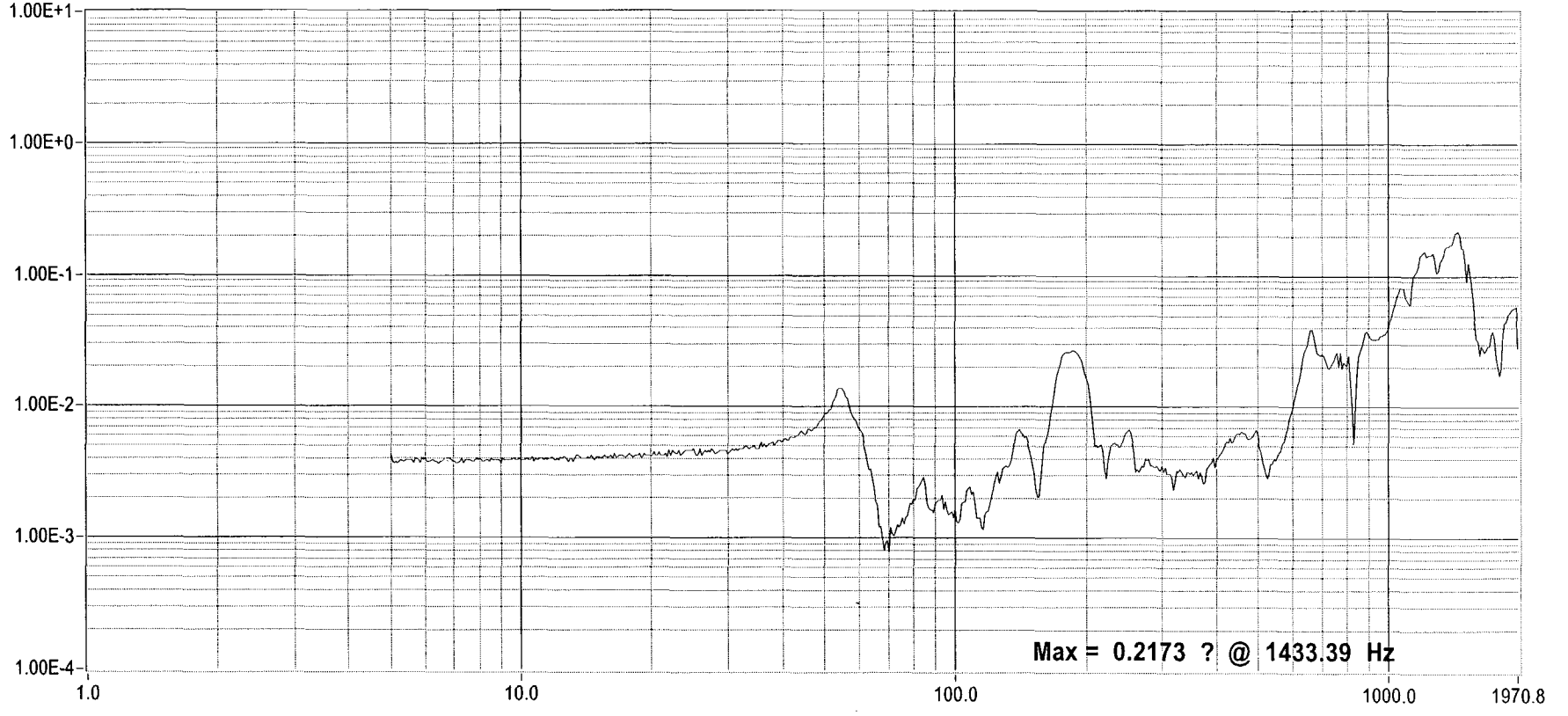
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 6 **Node Number:** 0006

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 PM

South_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A5 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

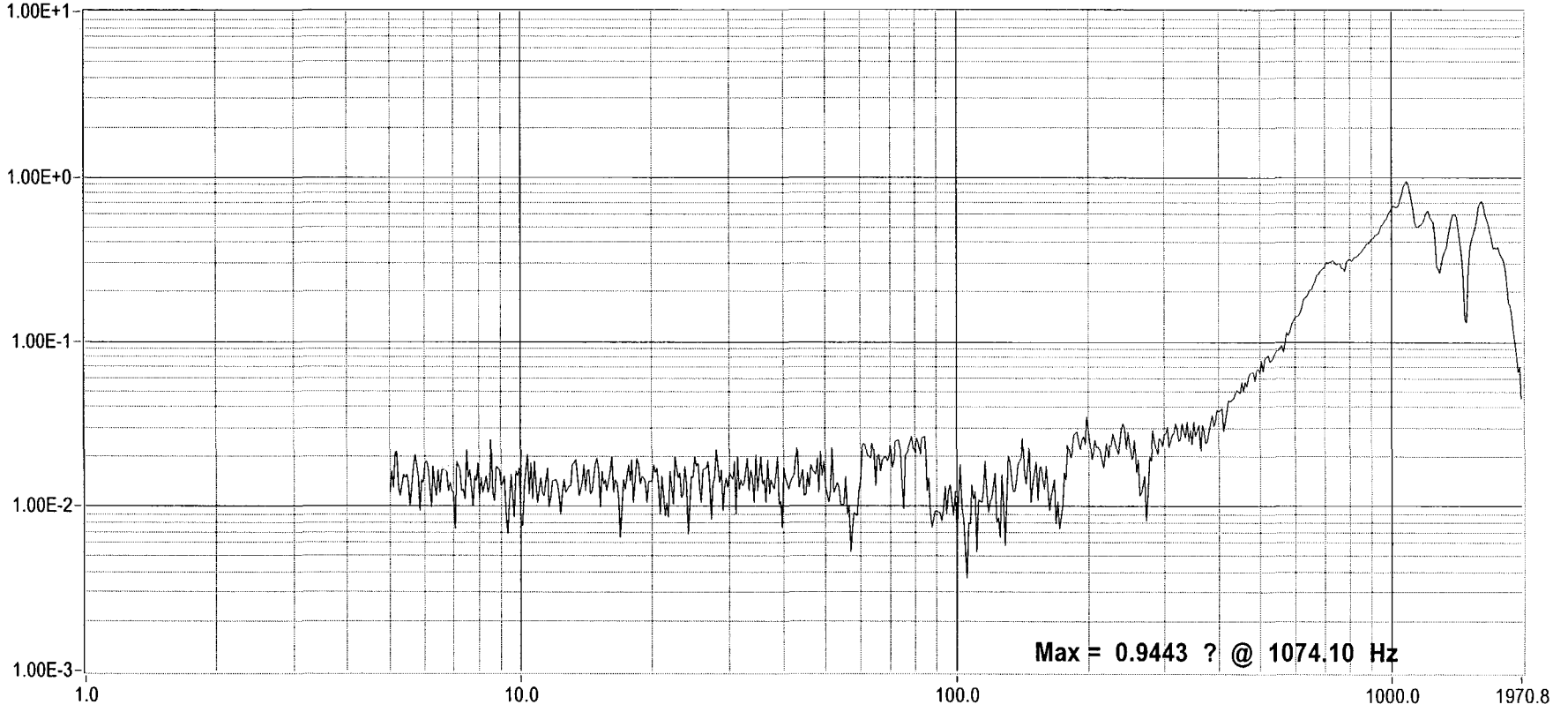
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 7 **Node Number:** 0007

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 PM

Frequency HZ

A5 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A5 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

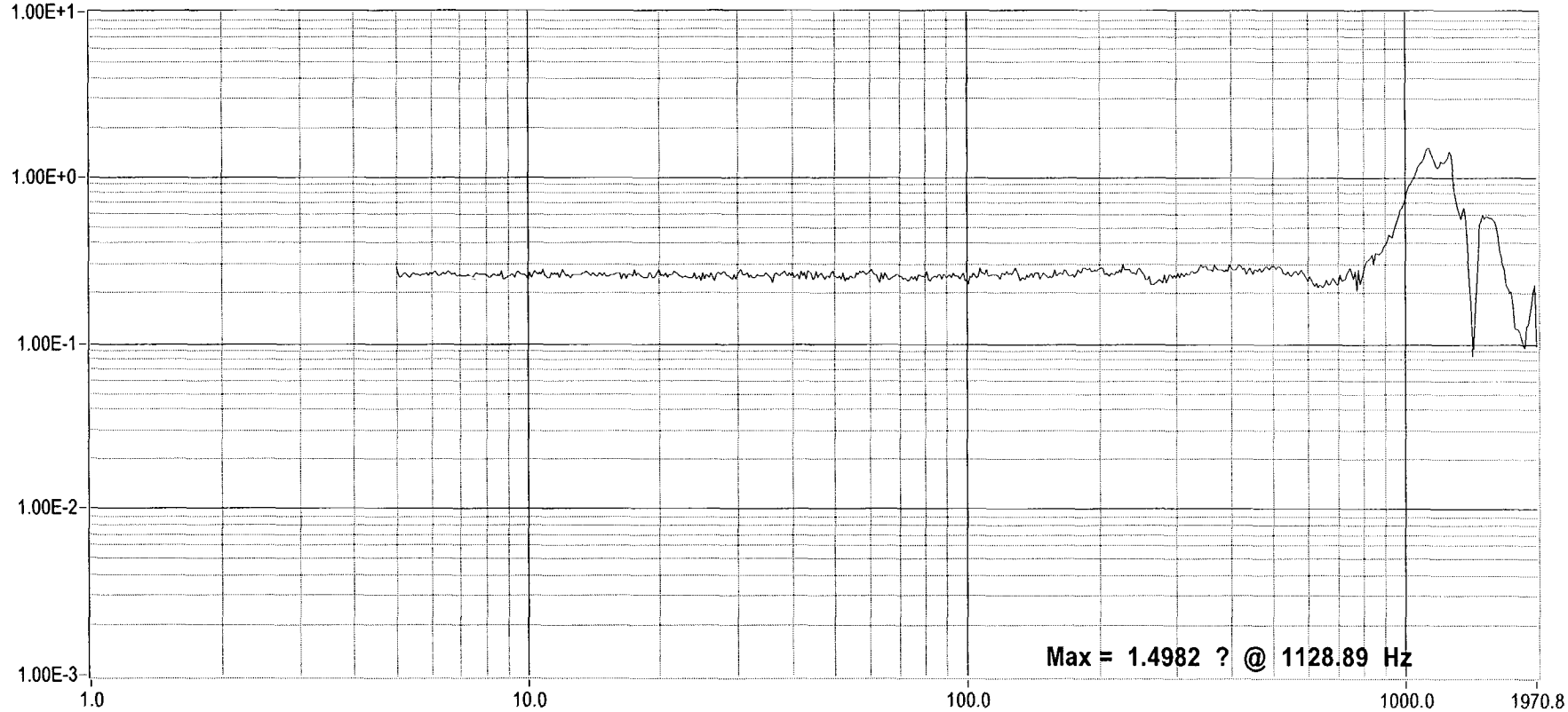
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 8 Node Number: 0008

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 PM

Frequency HZ

A5 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A5 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

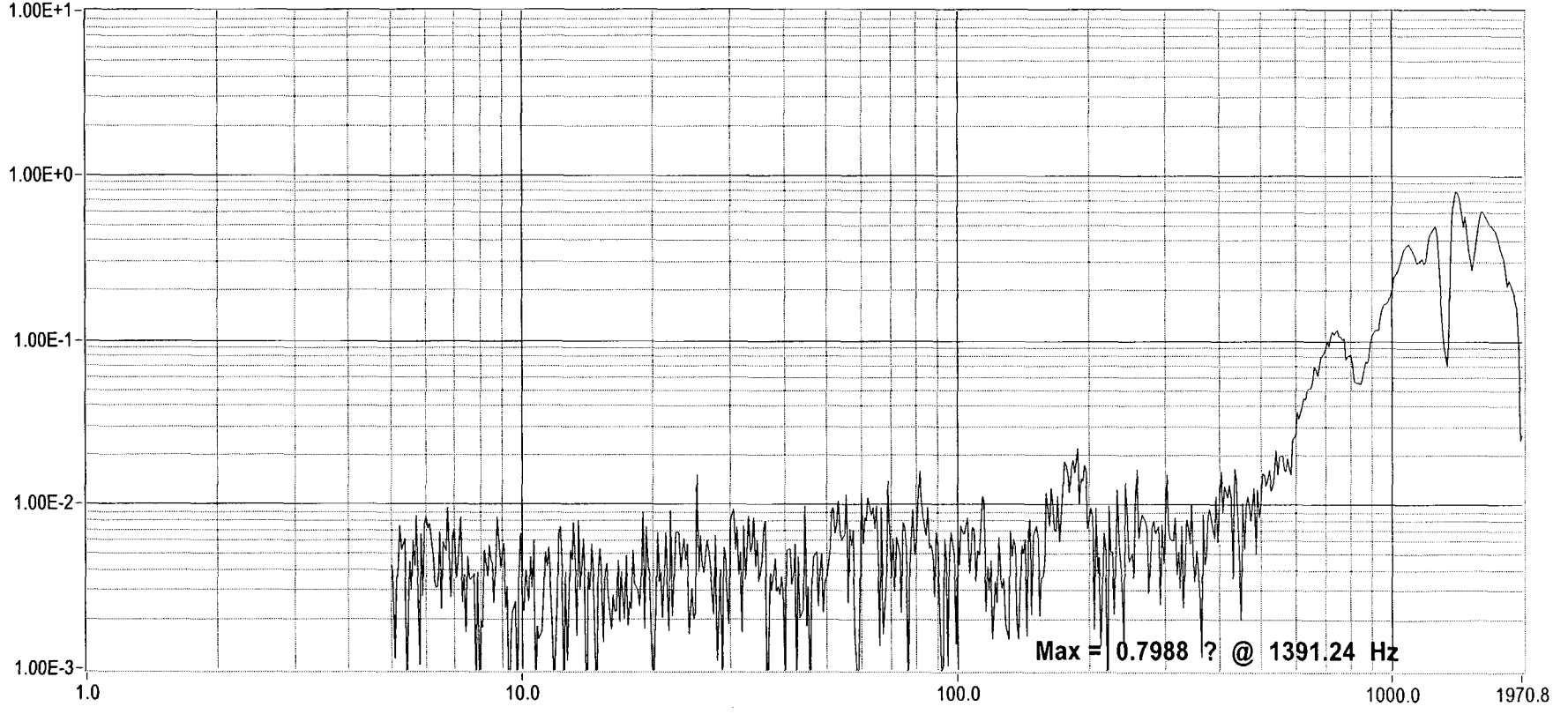
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 9 **Node Number:** 0009

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 PM

Frequency HZ

A5 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A6 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

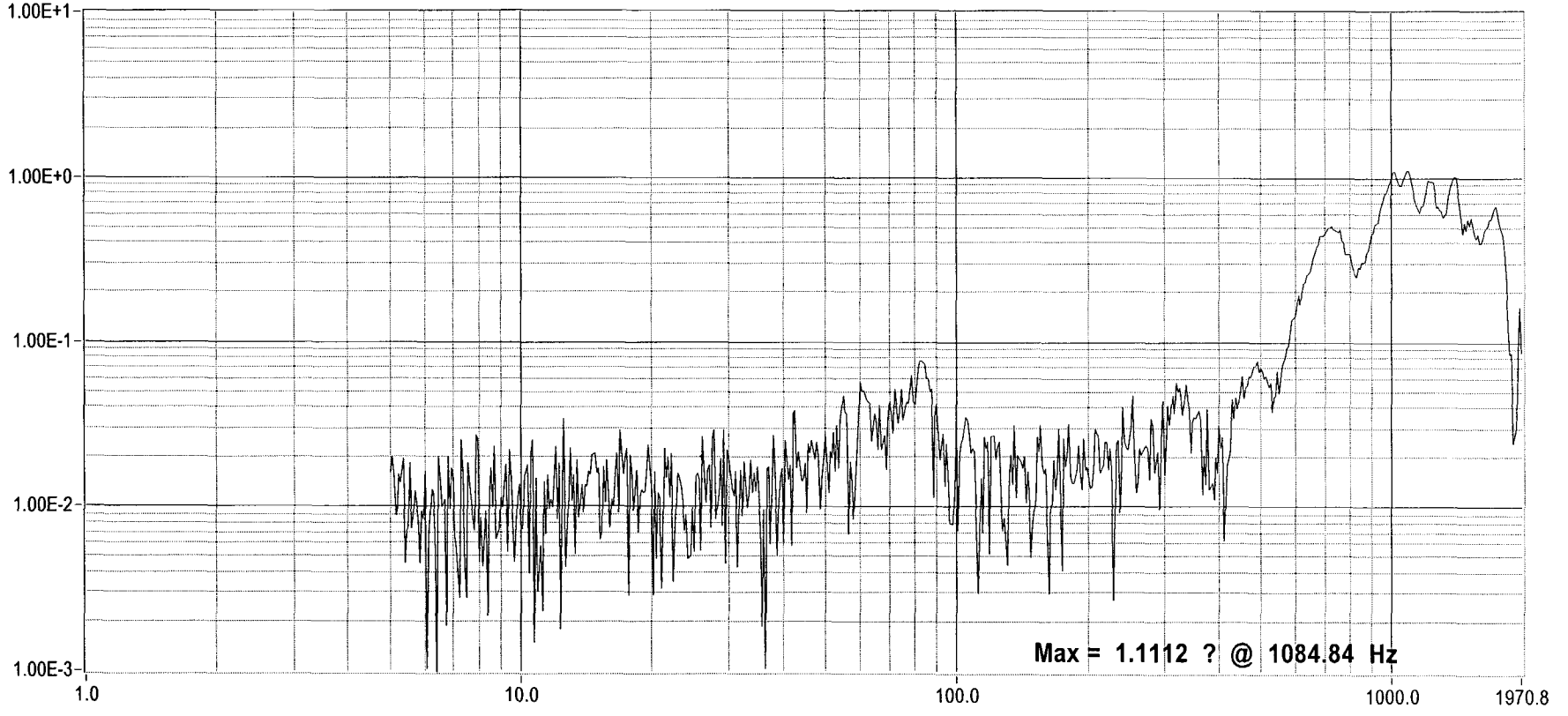
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 10 **Node Number:** 0010

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 PM

Frequency HZ

A6 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A6 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

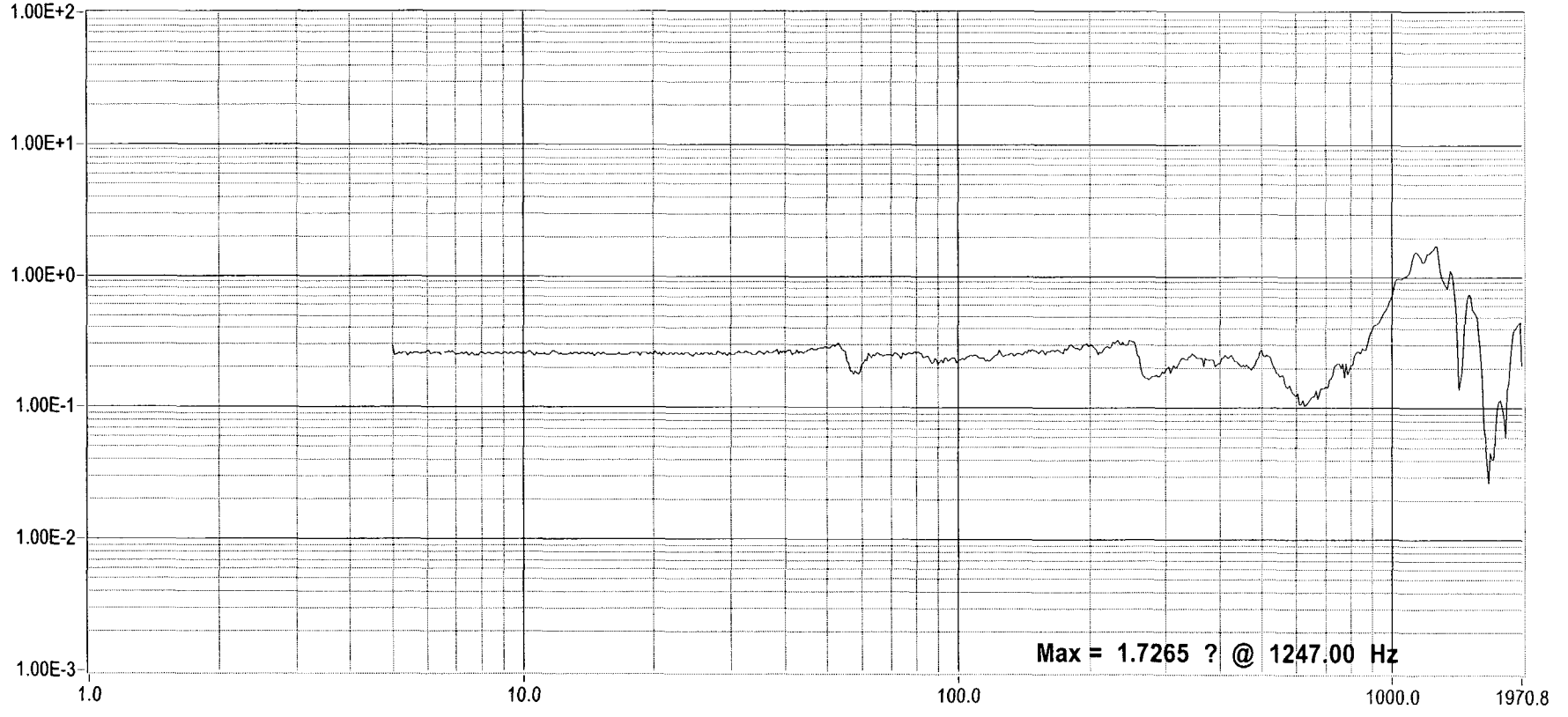
Channel #: 11 **Node Number:** 0011

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 PM

A6 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A6 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

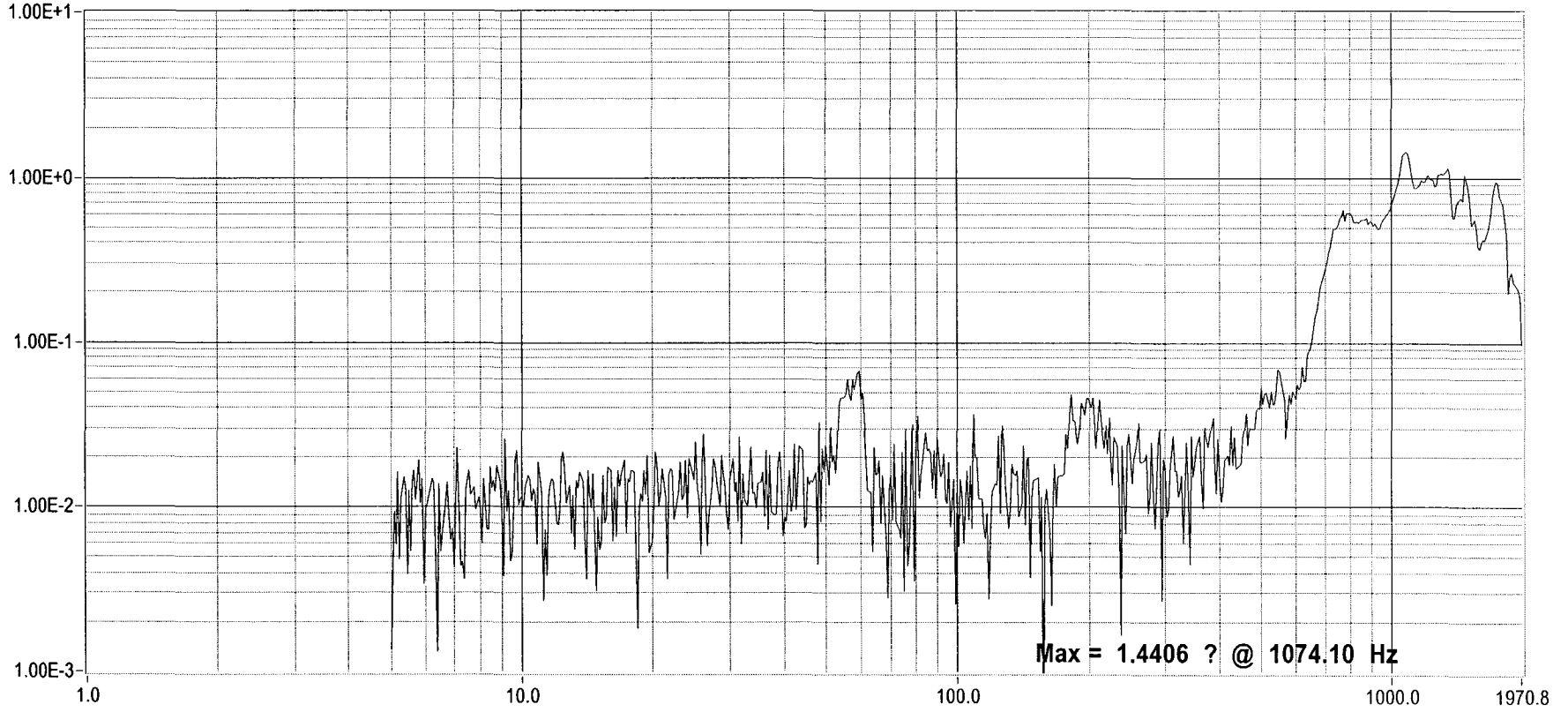
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 12 **Node Number:** 0012

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 PM

Frequency HZ

A6 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A7 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

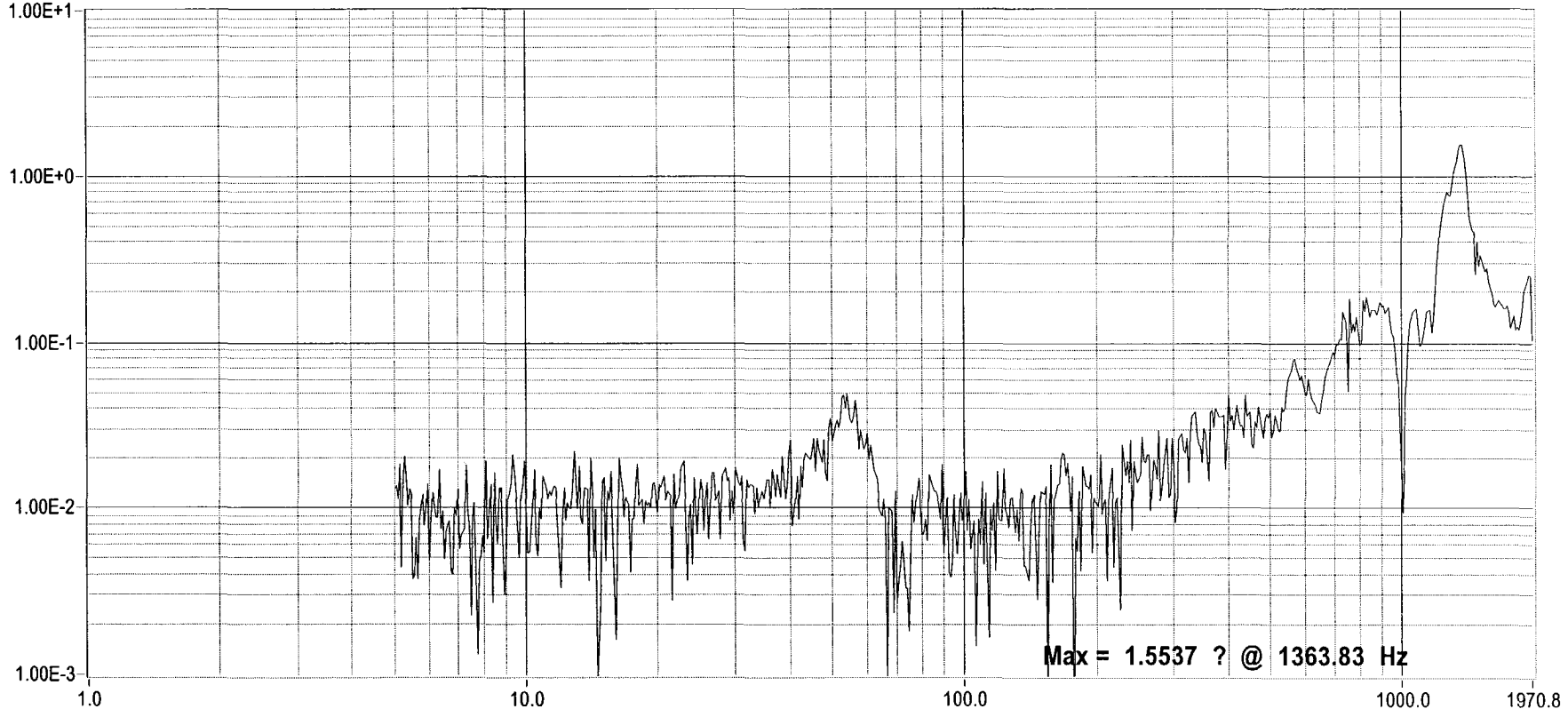
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 17 **Node Number:** 0017

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 PM

Frequency HZ

A7 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A7 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

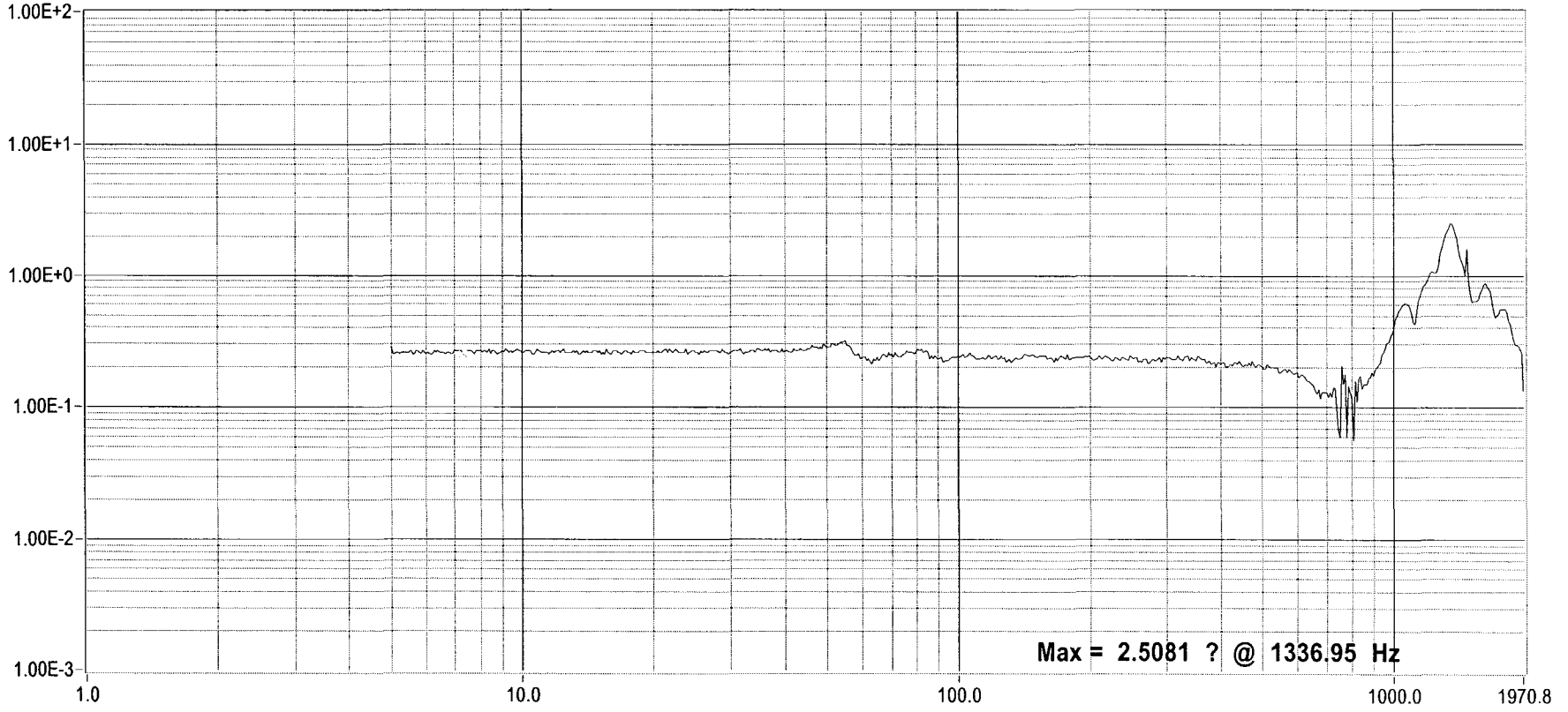
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 18 **Node Number:** 0018

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 PM

Frequency HZ

A7 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A7 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

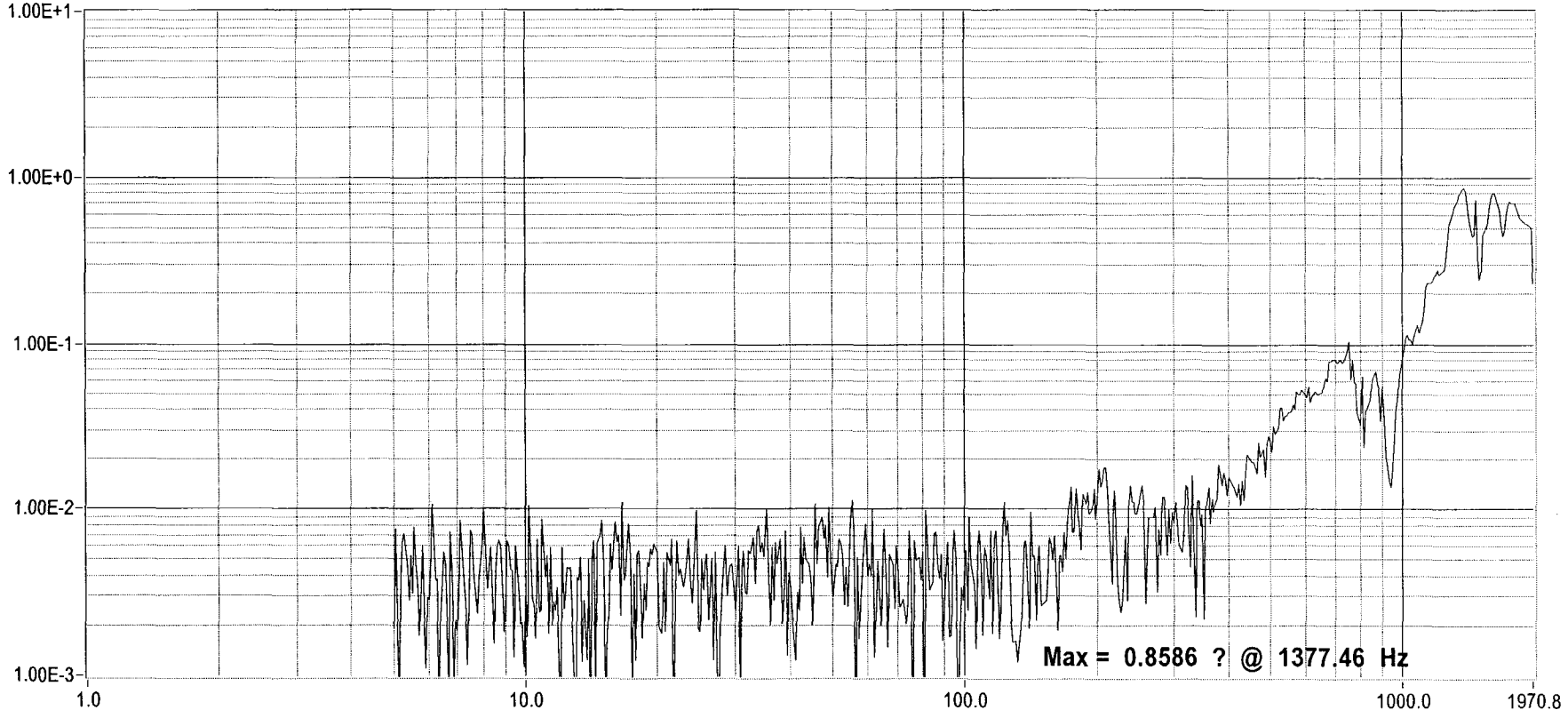
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 19 **Node Number:** 0019

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 PM

Frequency HZ

A7 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A8 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

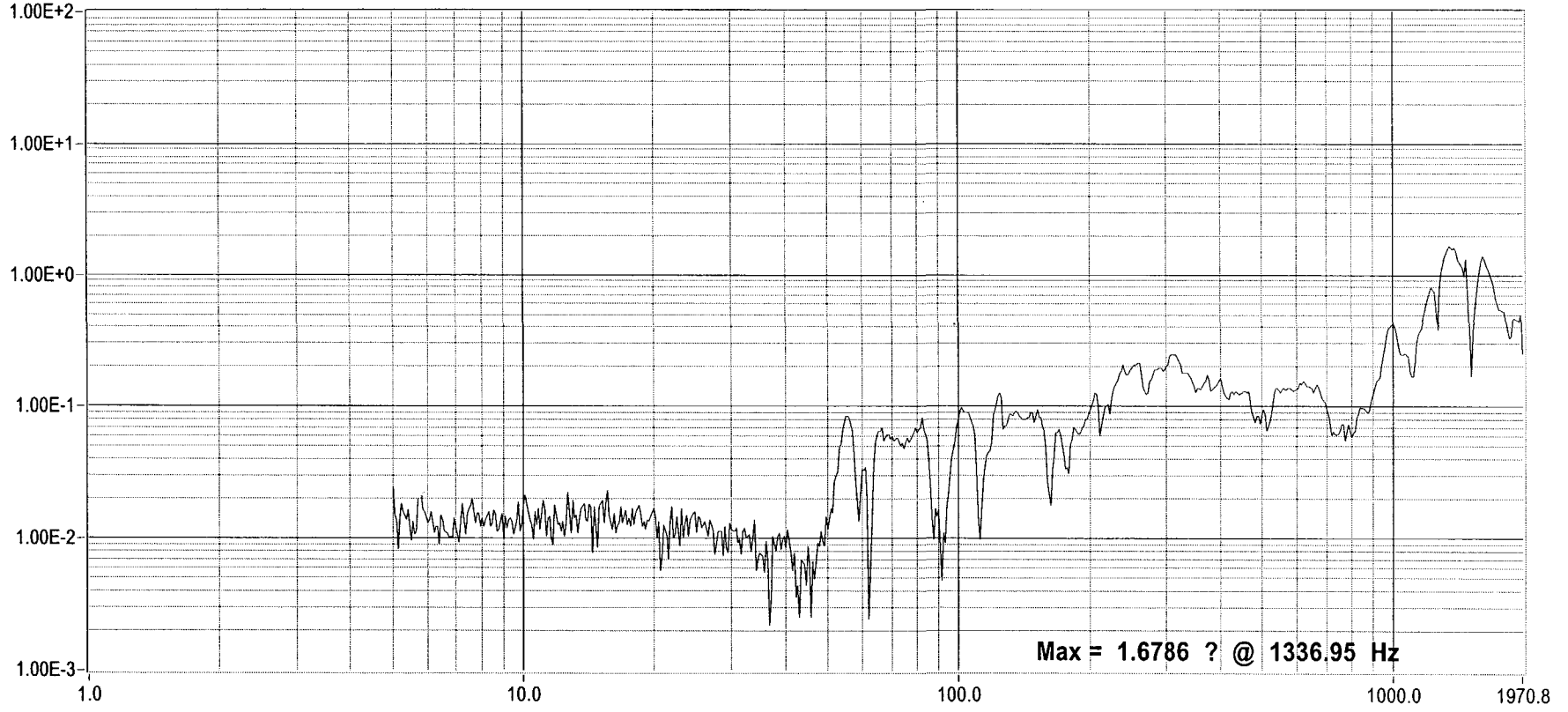
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 20 **Node Number:** 0020

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 PM

A8 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A8 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

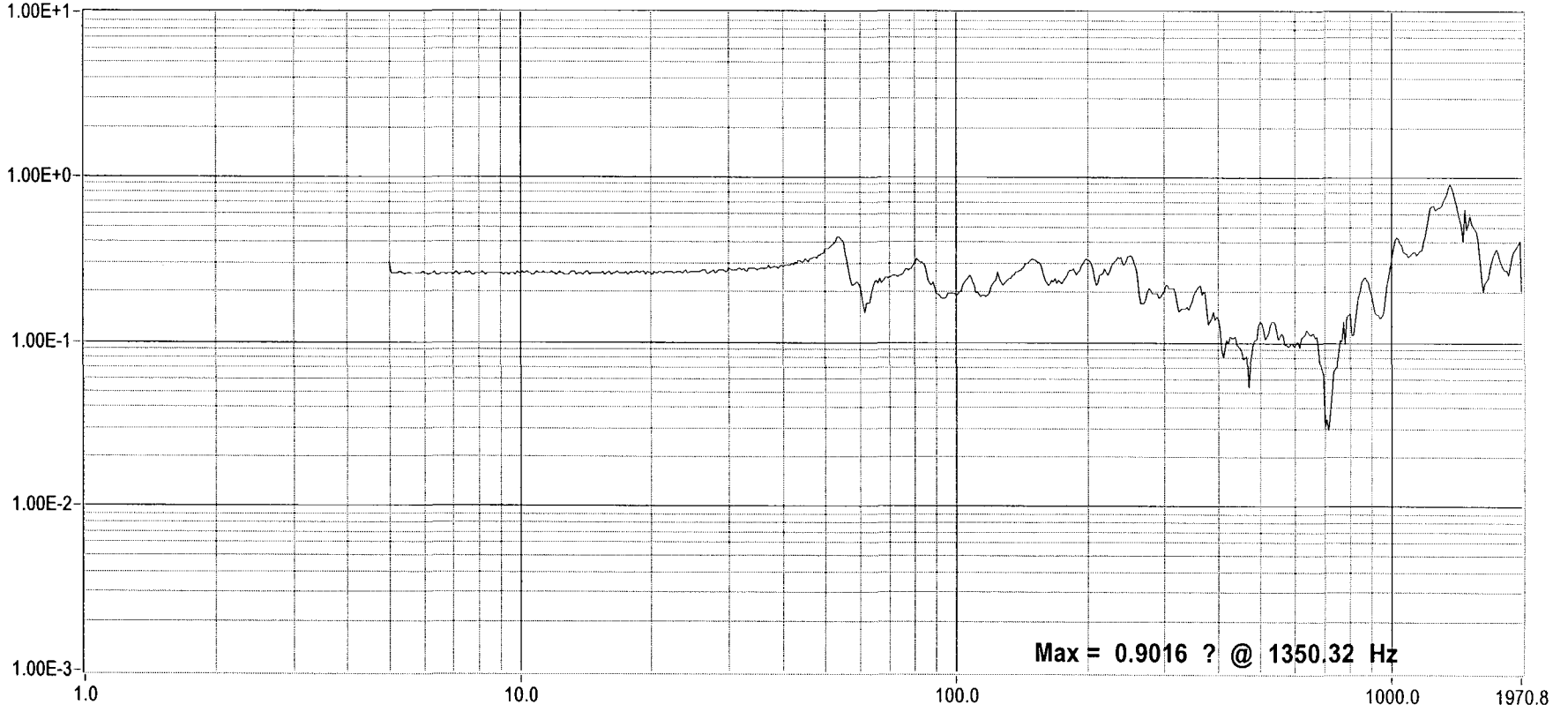
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 21 **Node Number:** 0021

Channel Description: 0.01034

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 PM

Frequency HZ

A8 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A8 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

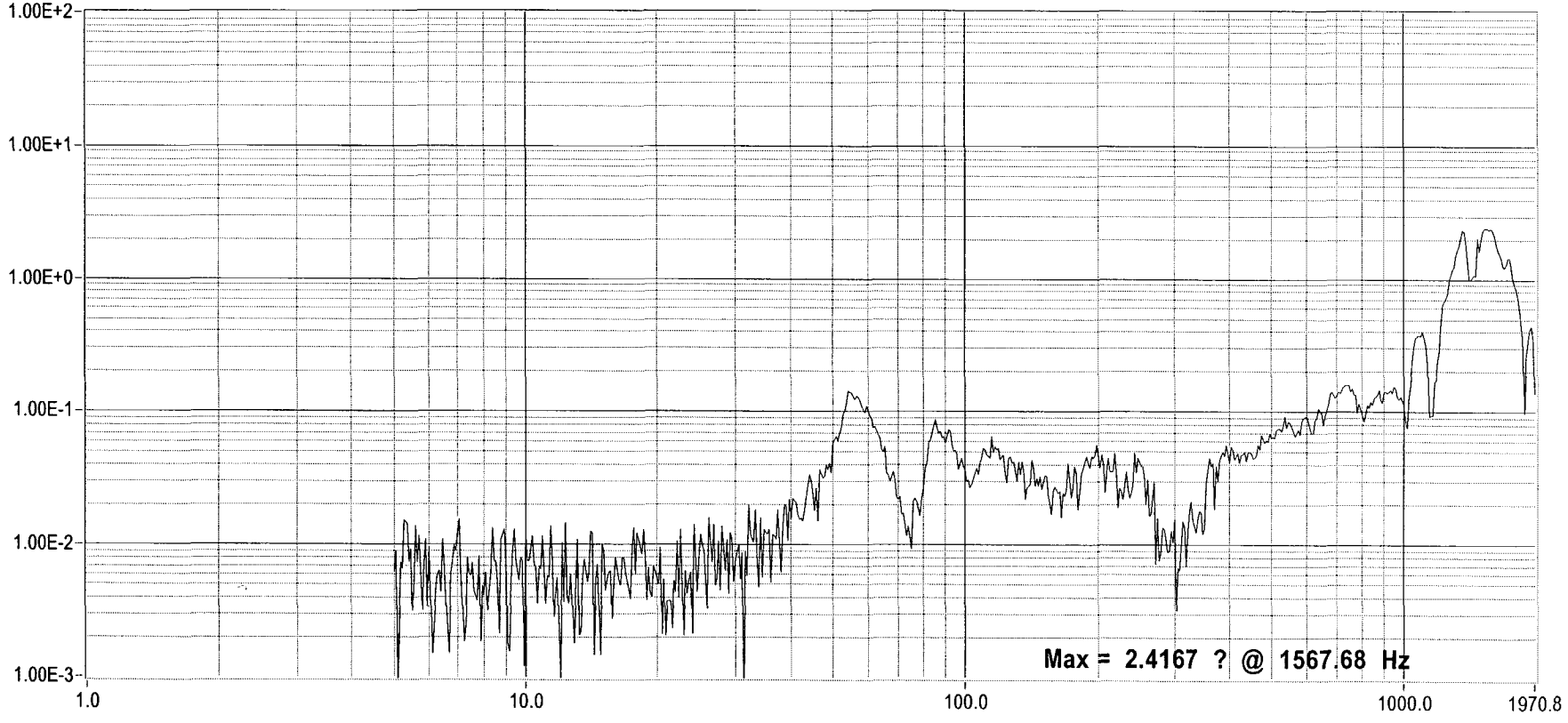
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 22 **Node Number:** 0022

Channel Description: 0.01029

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 PM

A8 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A9 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

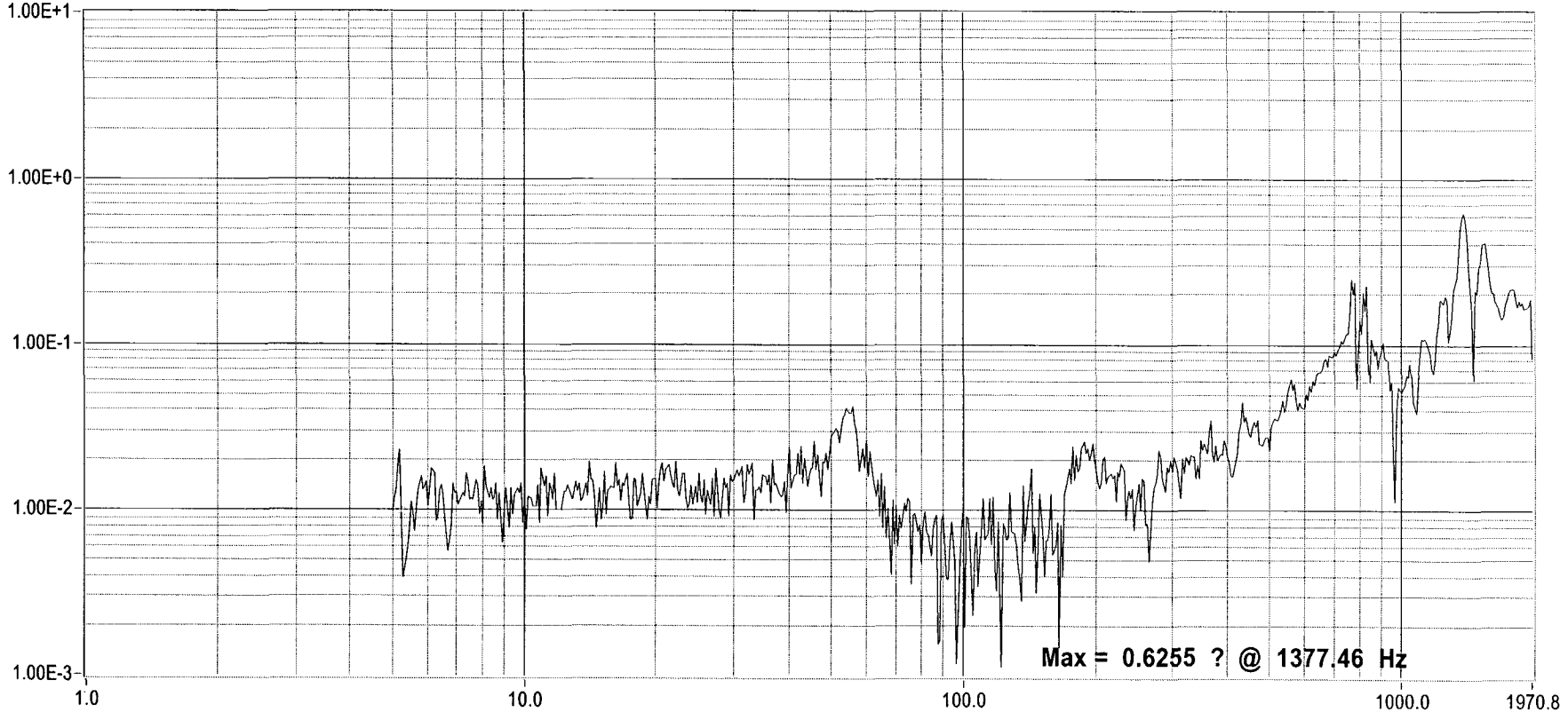
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 23 **Node Number:** 0023

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 PM

Frequency HZ

A9 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A9 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

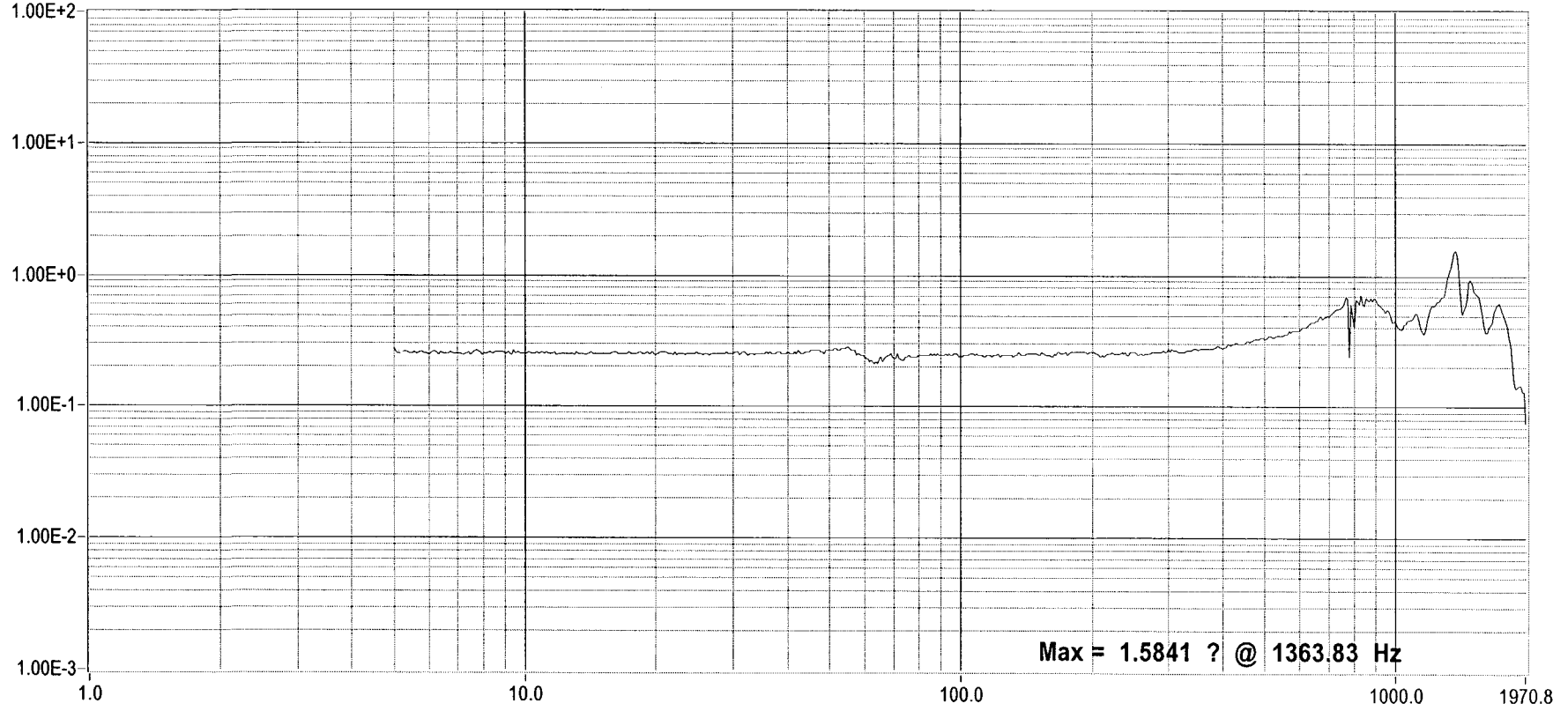
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 24 **Node Number:** 0024

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 PM

A9 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A9 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

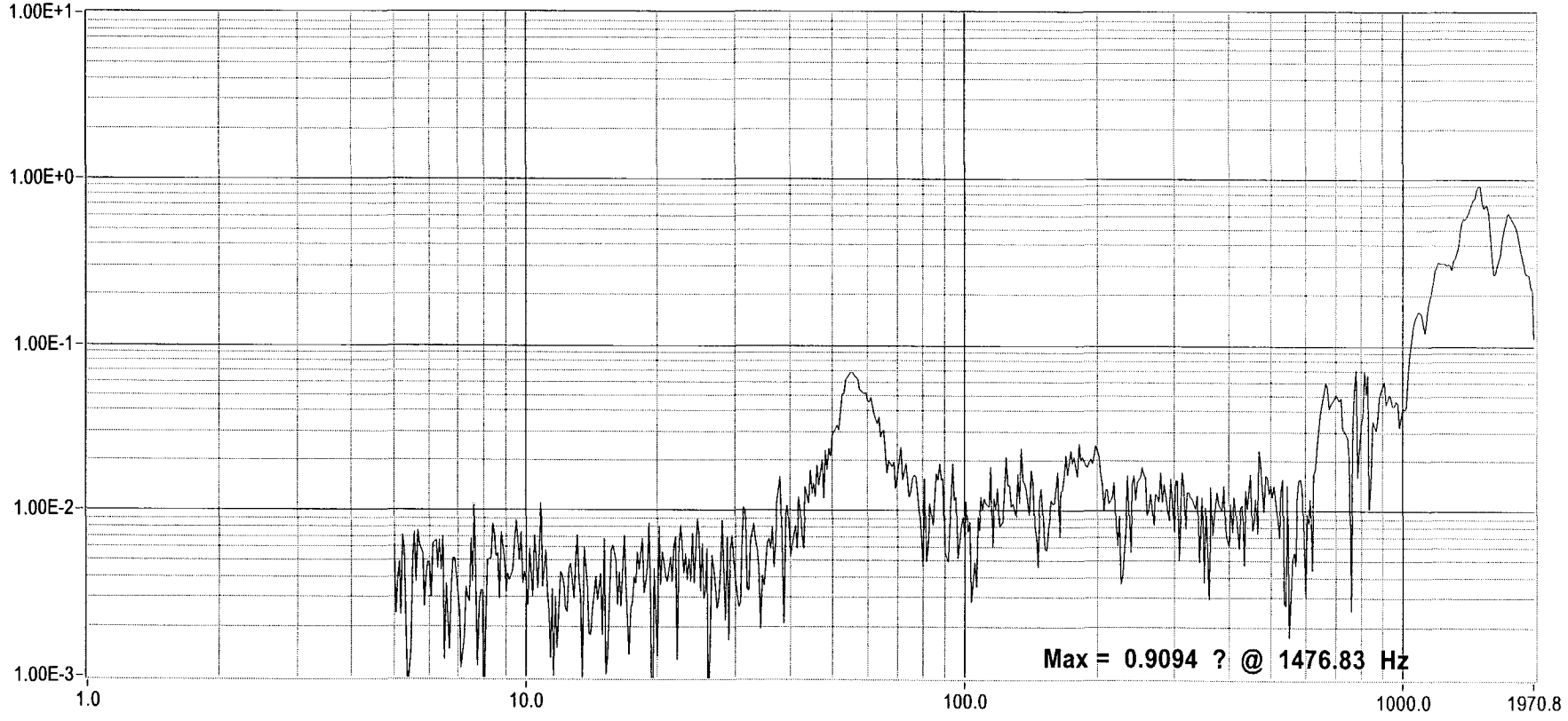
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 25 **Node Number:** 0025

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 PM

Frequency HZ

A9 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A10 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

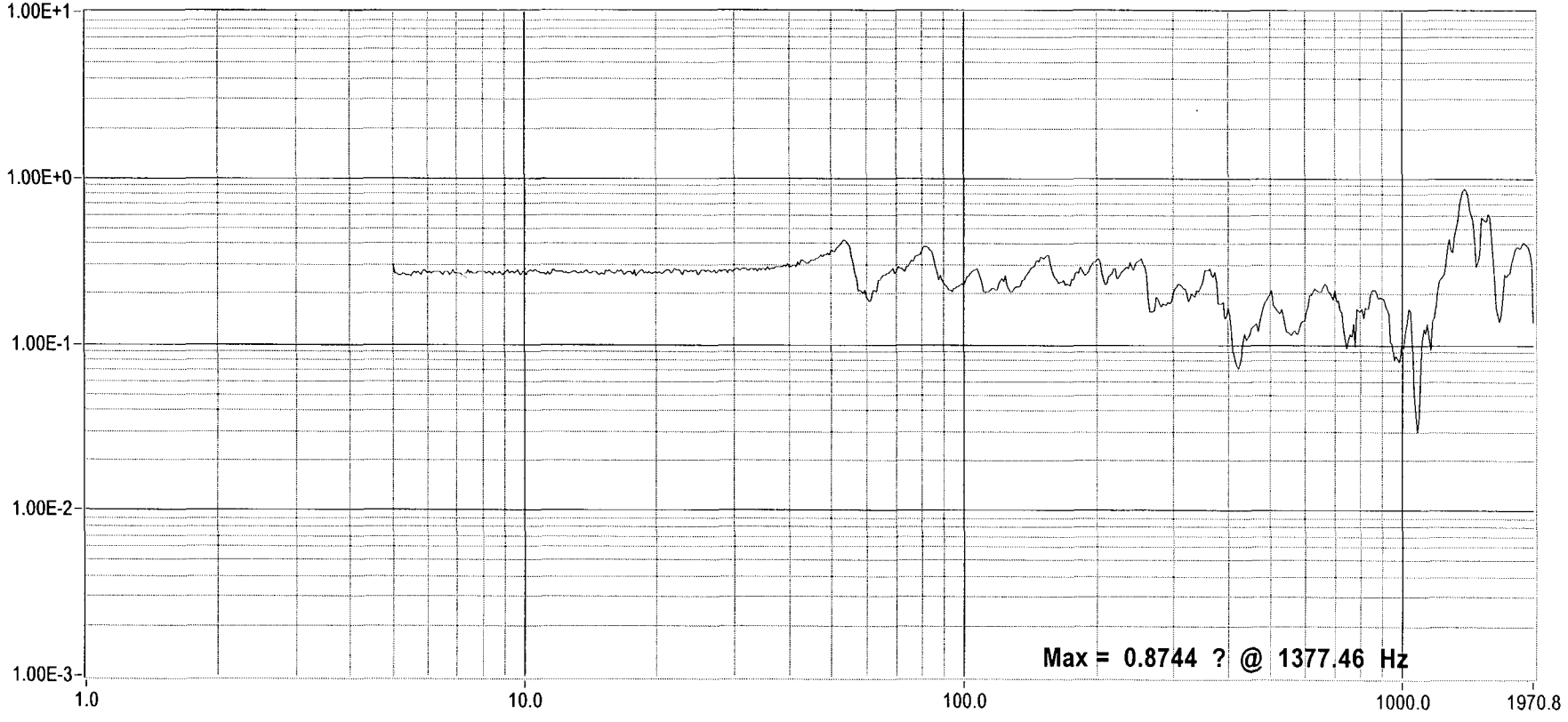
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 26 **Node Number:** 0026

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 PM

Frequency HZ

A10 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A10 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

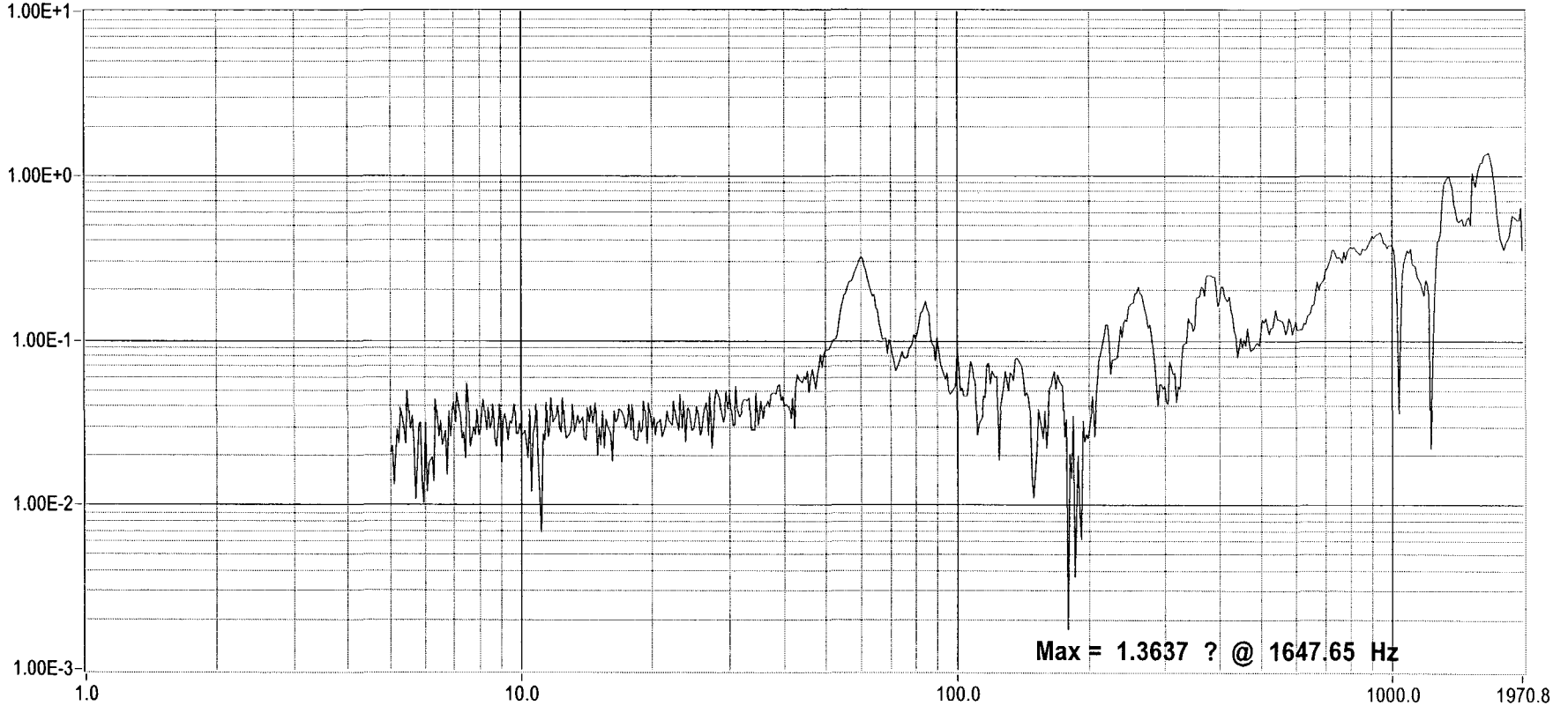
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 27 **Node Number:** 0027

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 PM

Frequency HZ

A10 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A10 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

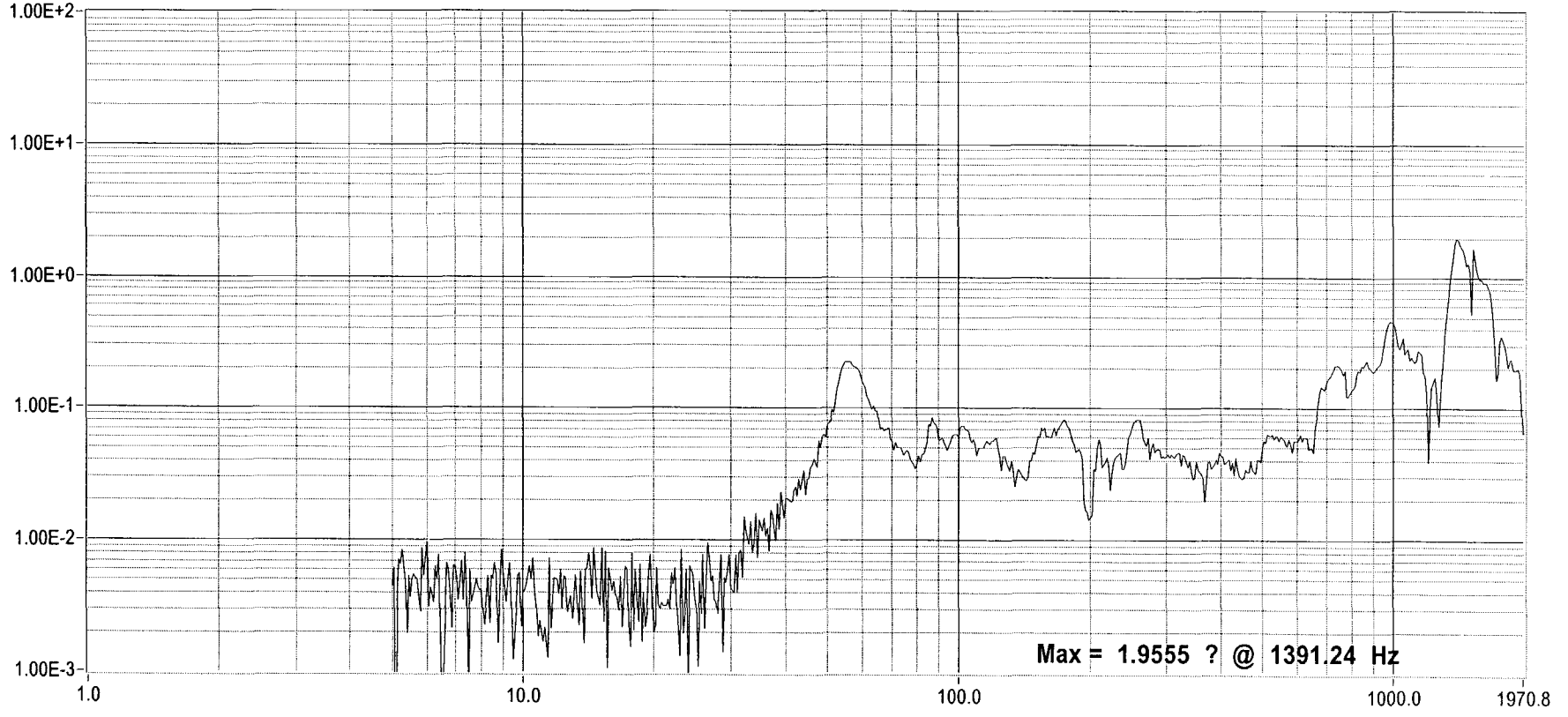
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 28 **Node Number:** 0028

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 PM

A10 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

DRIVE

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

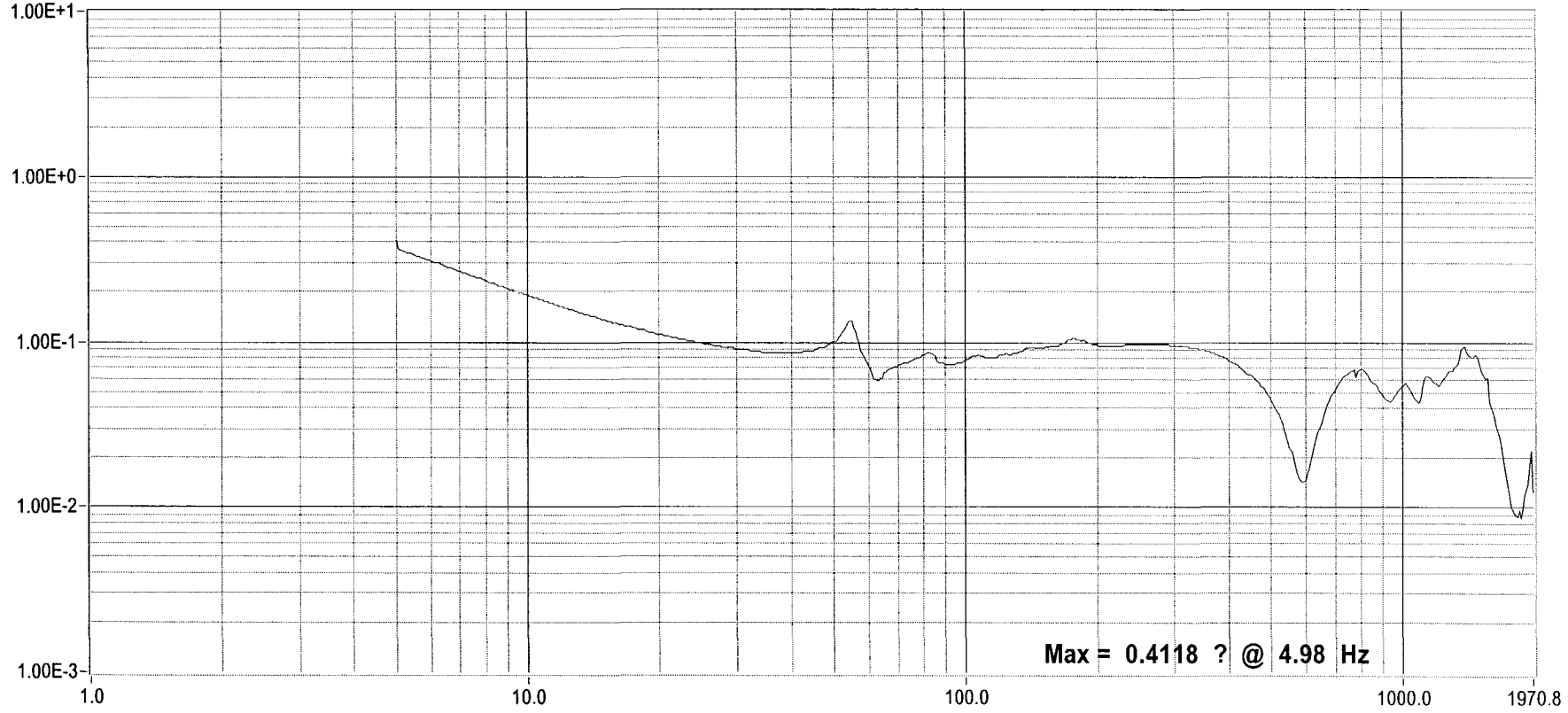
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 31 **Node Number:** 0031

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 PM

Frequency HZ

DRIVE

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

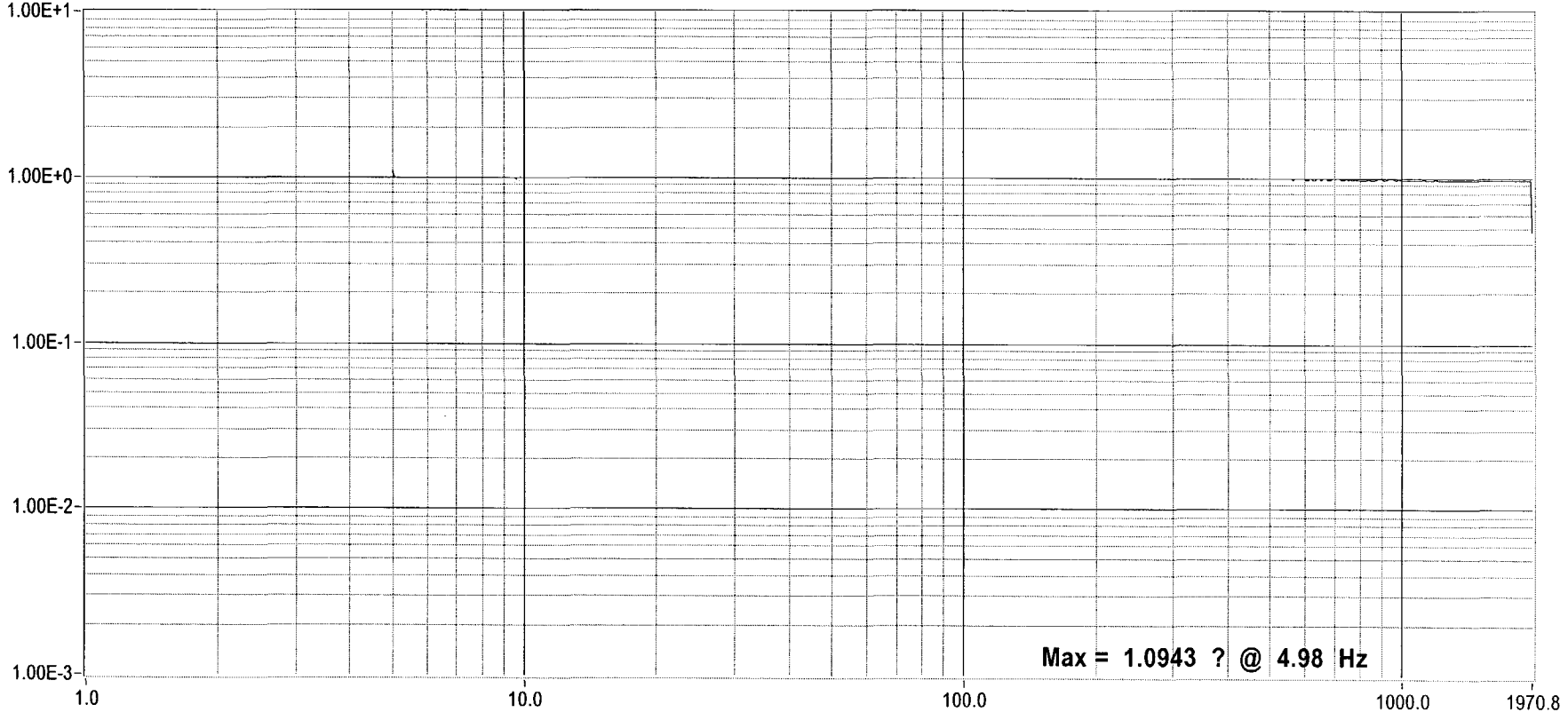
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 32 **Node Number:** 0032

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 PM

Frequency HZ

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A1X: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

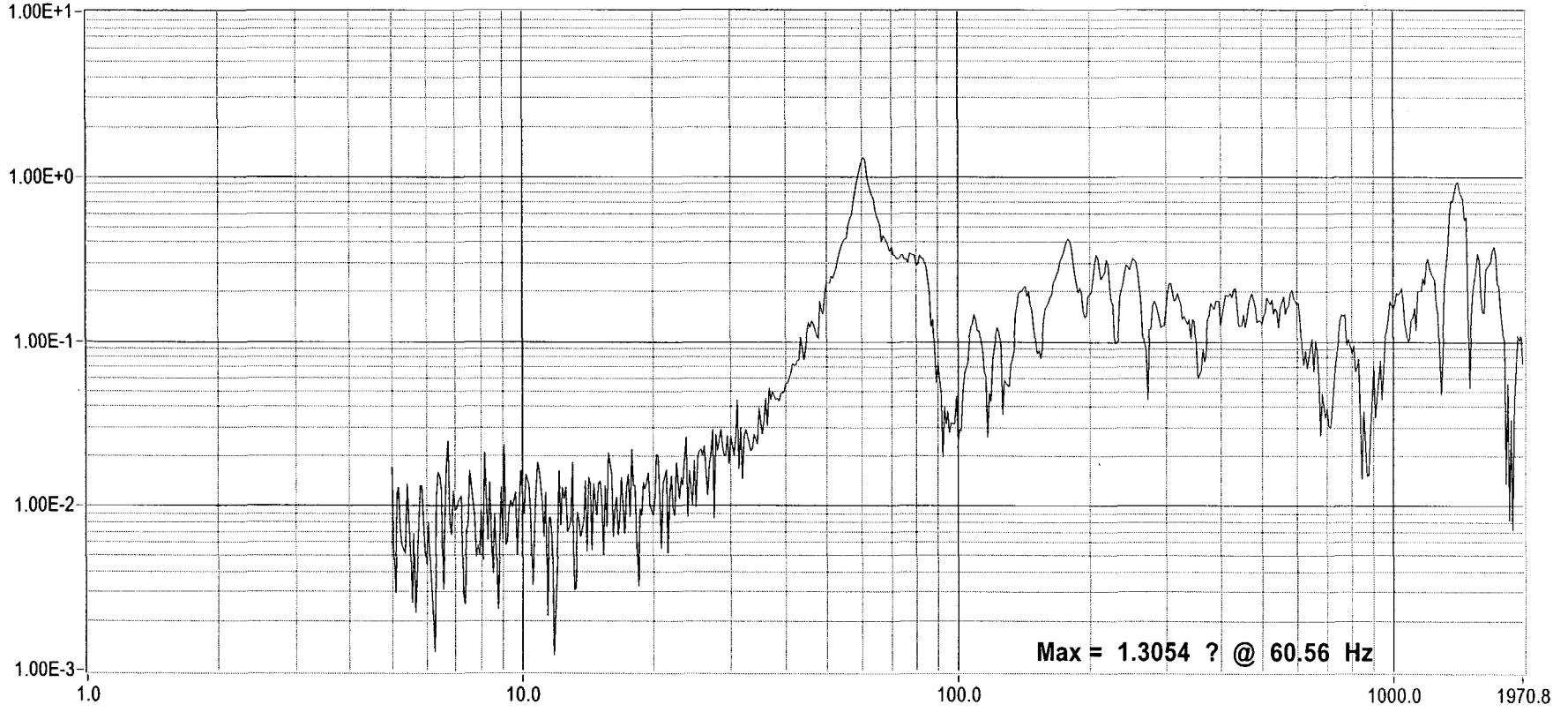
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 33 **Node Number:** 0033

Channel Description: BOX 3 CH 1 SN=AE71-1

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 PM

Frequency HZ

A1X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A1Y: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

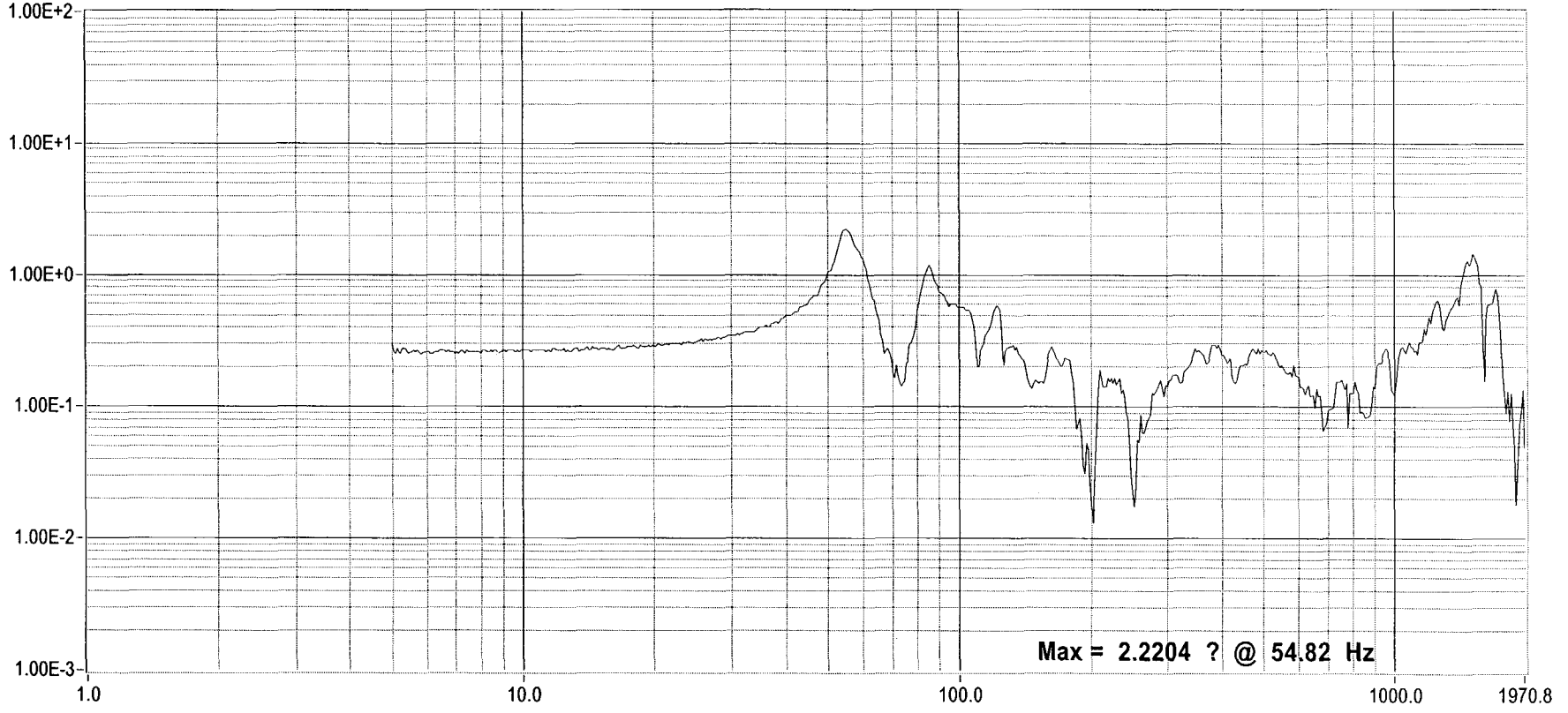
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 34 **Node Number:** 0034

Channel Description: BOX 3 CH 2 SN=AC40

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 PM

Frequency HZ

A1Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A1Z: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

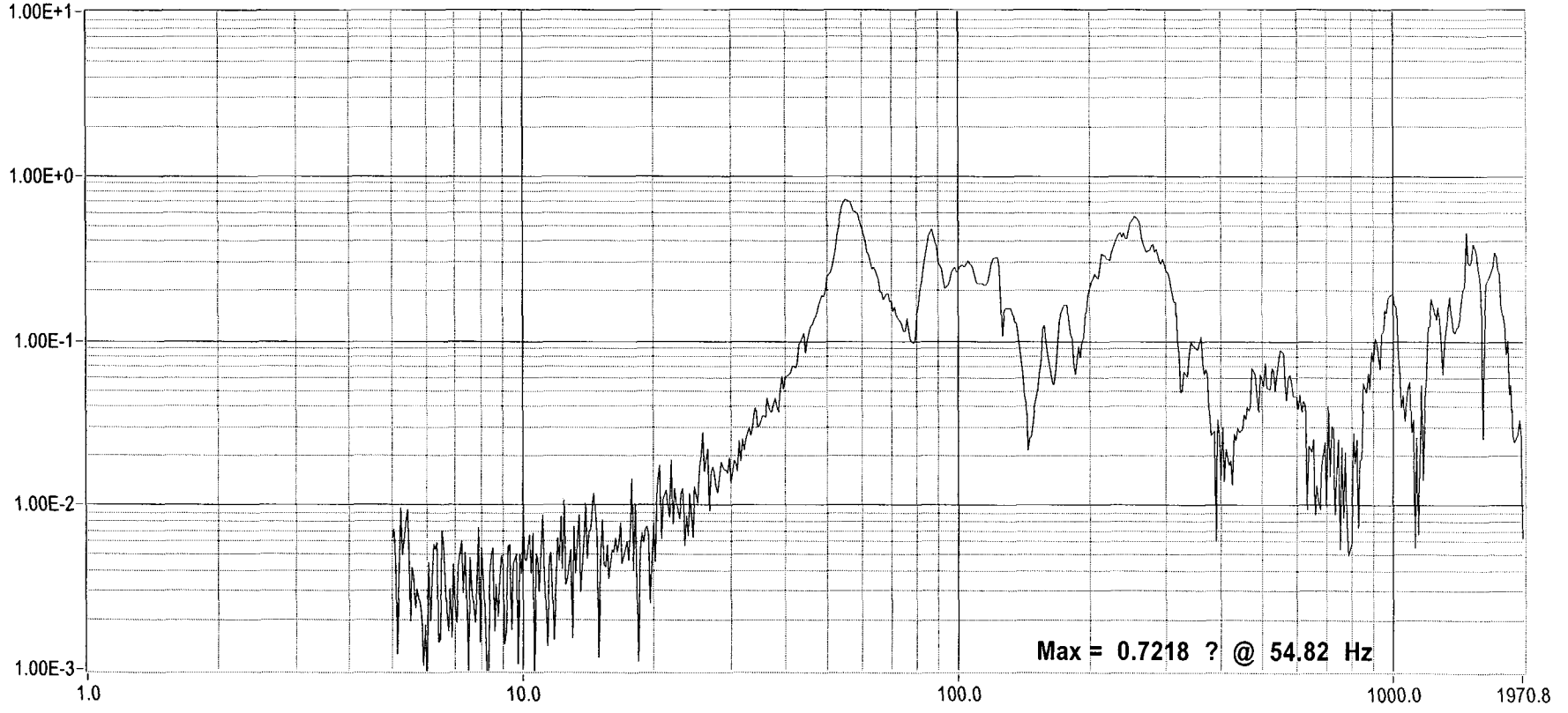
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 35 **Node Number:** 0035

Channel Description: BOX 3 CH 3 SN=AD72

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 PM

Frequency HZ

A1Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A1RX: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

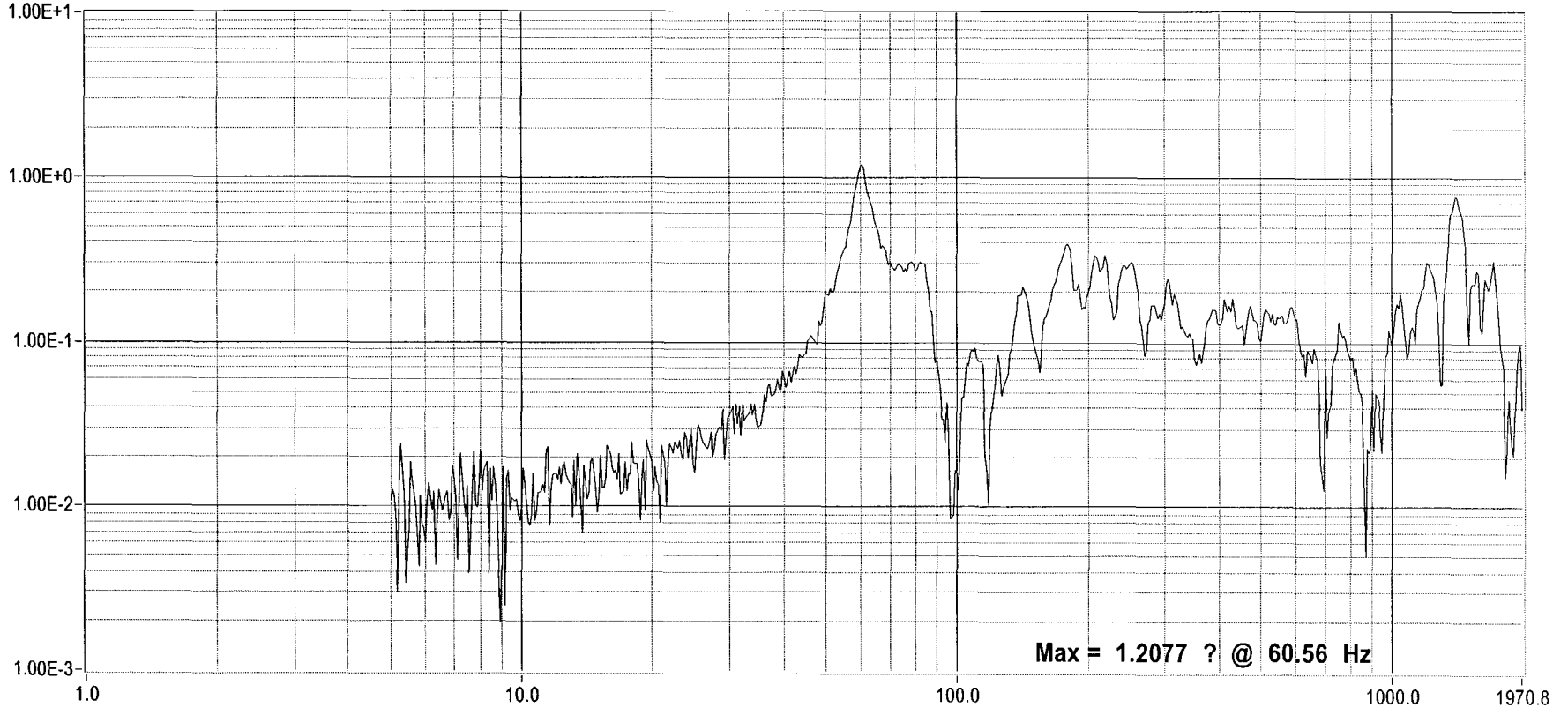
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 36 **Node Number:** 0036

Channel Description: BOX 3 CH 4 SN=AF35

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 PM

Frequency HZ

A1RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A1RY: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

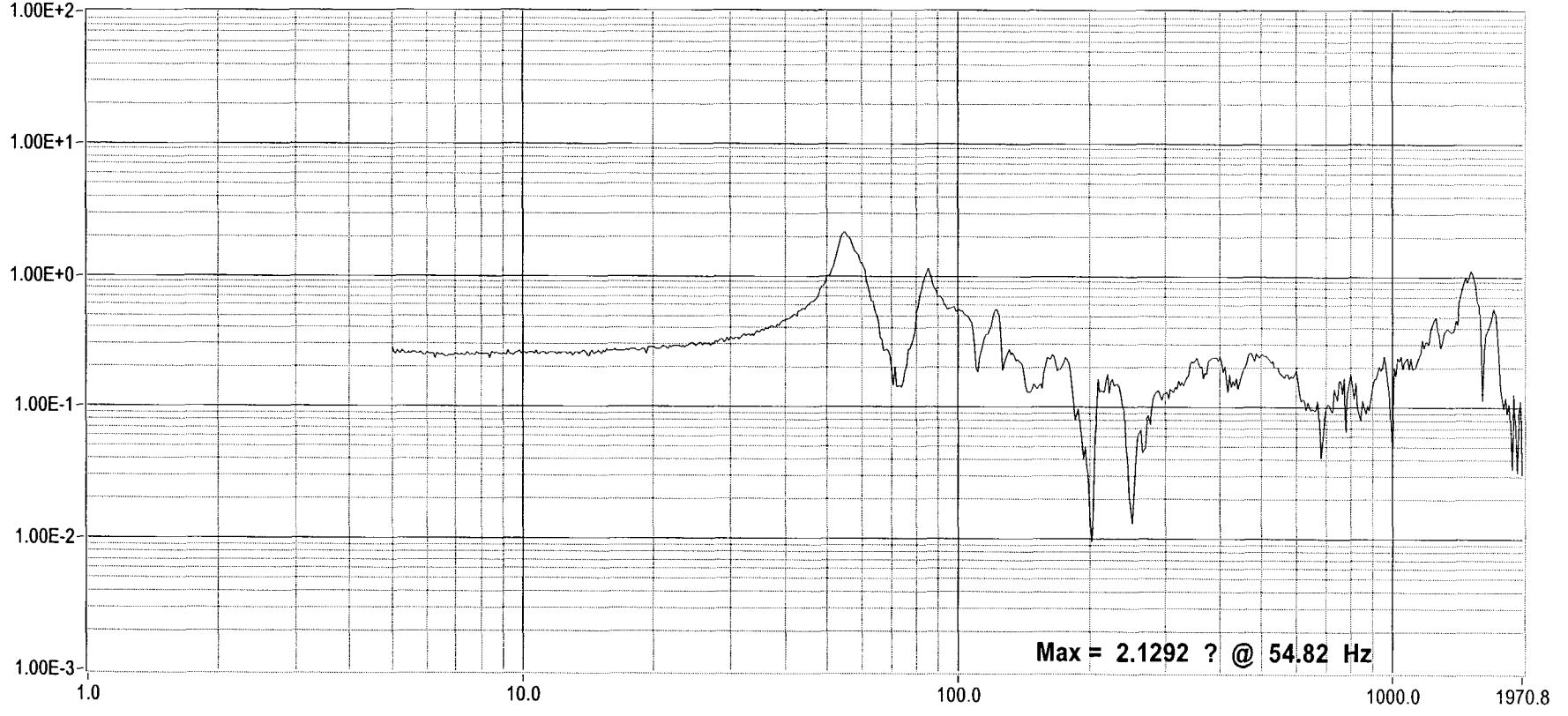
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 37 **Node Number:** 0037

Channel Description: BOX 3 CH 5 SN=AB88

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 PM

Frequency HZ

A1RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A1RZ: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

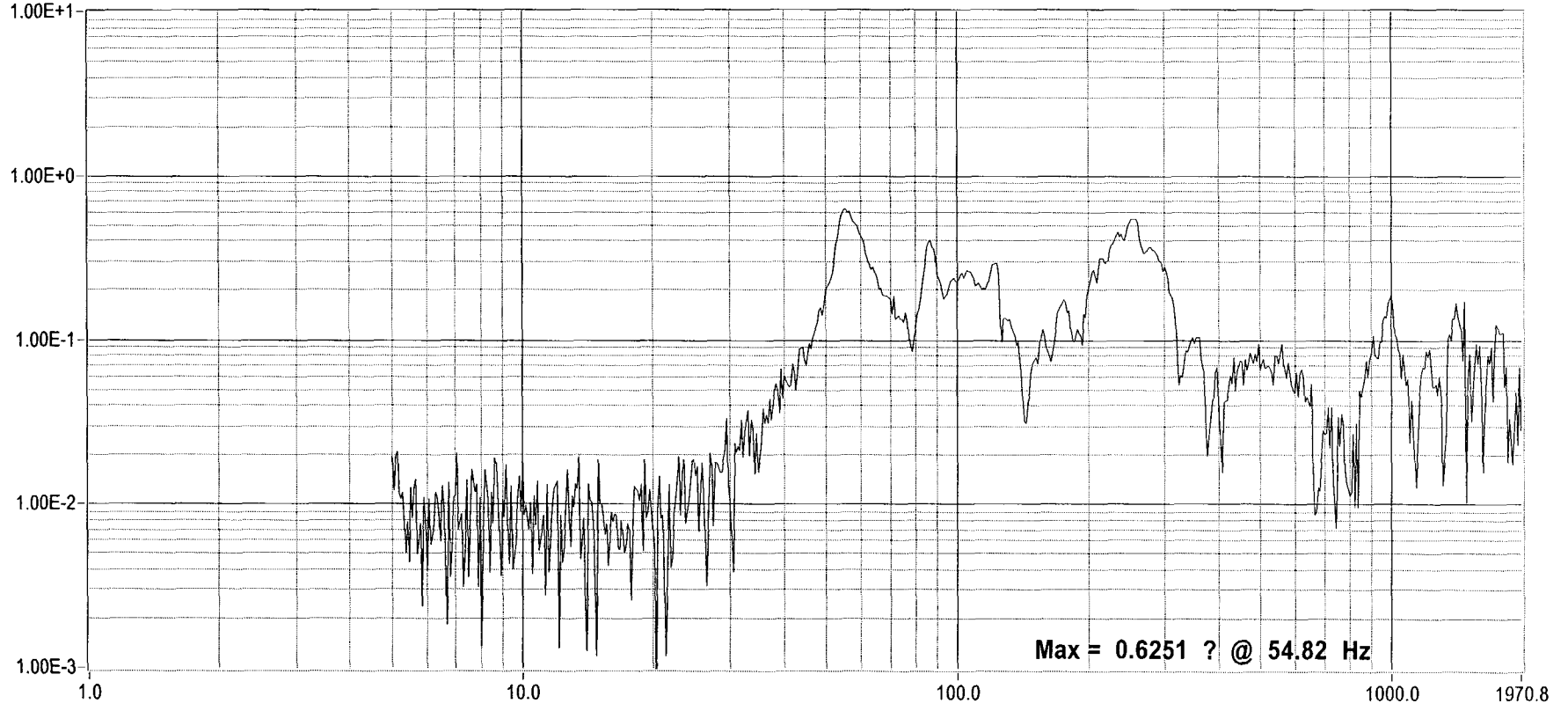
Channel #: 38 **Node Number:** 0038

Channel Description: BOX 3 CH 6 SN=AG51

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 PM

Frequency HZ

A1RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 39 **Node Number:** 0039

Channel Description: BOX 3 CH 7 SN=AK10

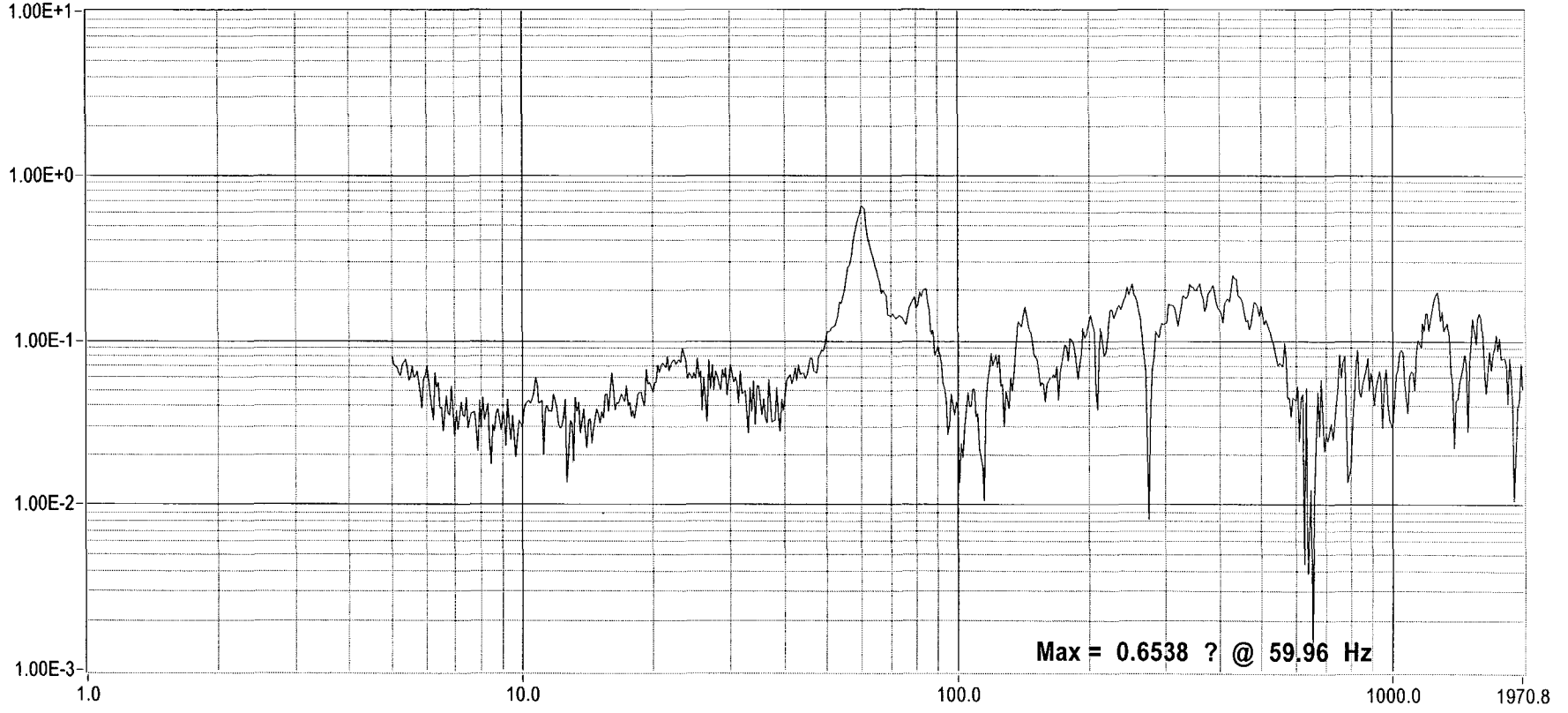
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 17:46:12

A2X: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:17 PM

Frequency HZ

A2X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 40 **Node Number:** 0040

Channel Description: BOX 3 CH 8 SN=AB06

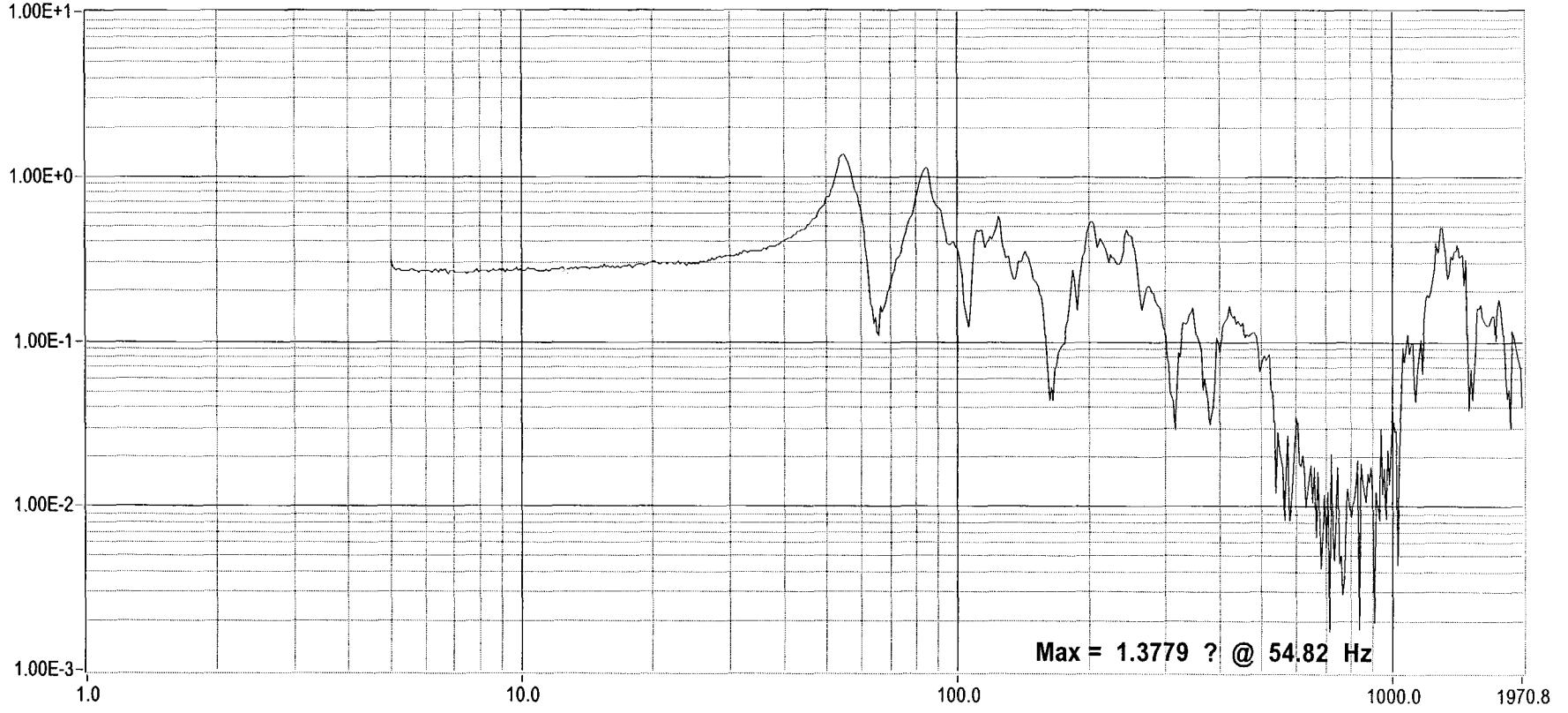
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 17:46:12

A2Y: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:18 PM

Frequency HZ

A2Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 41 **Node Number:** 0041

Channel Description: BOX 3 CH 9 SN=AF28

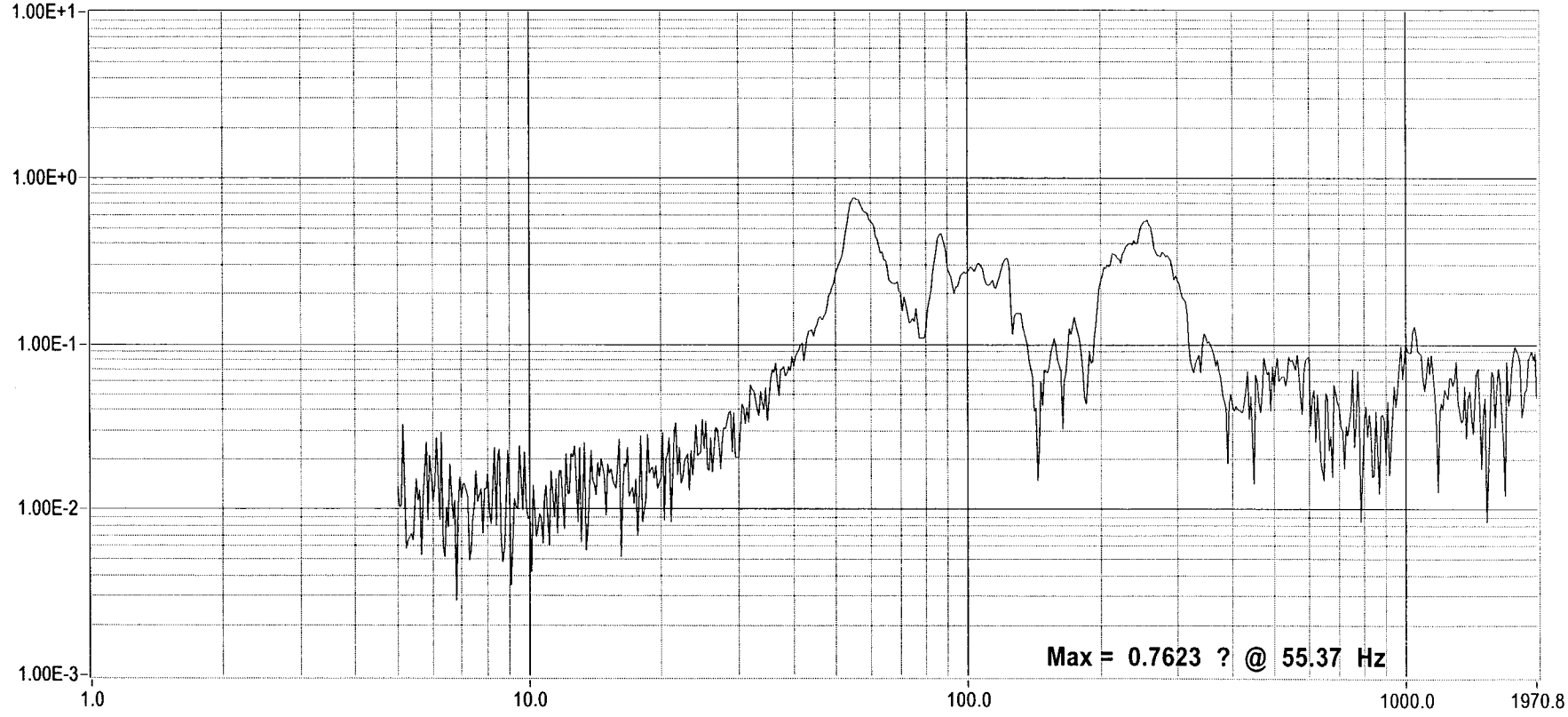
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 17:46:12

A2Z: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:18 PM

Frequency HZ

A2Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A2RX: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

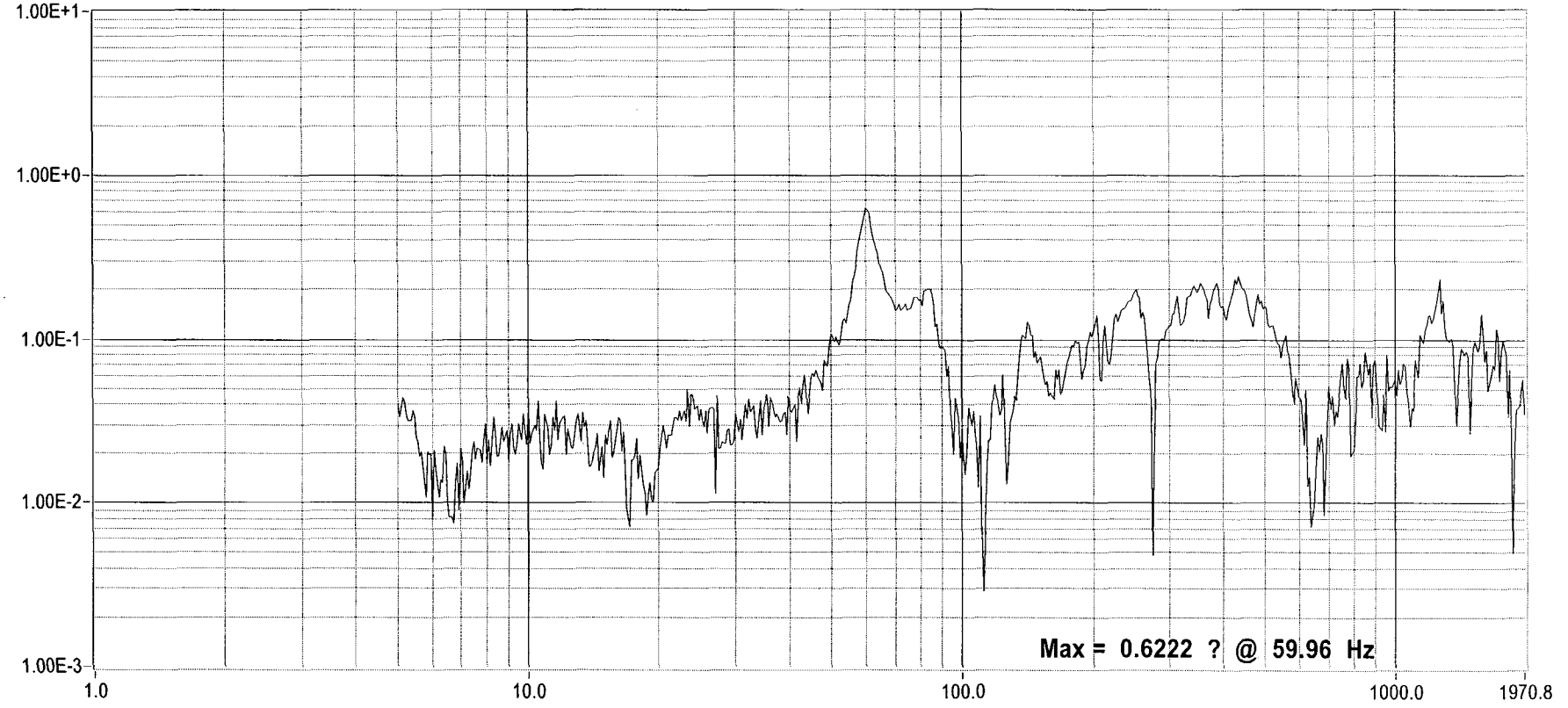
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 42 **Node Number:** 0042

Channel Description: BOX 3 CH 10 SN=AJ30

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:18 PM

Frequency HZ

A2RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A2RY: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

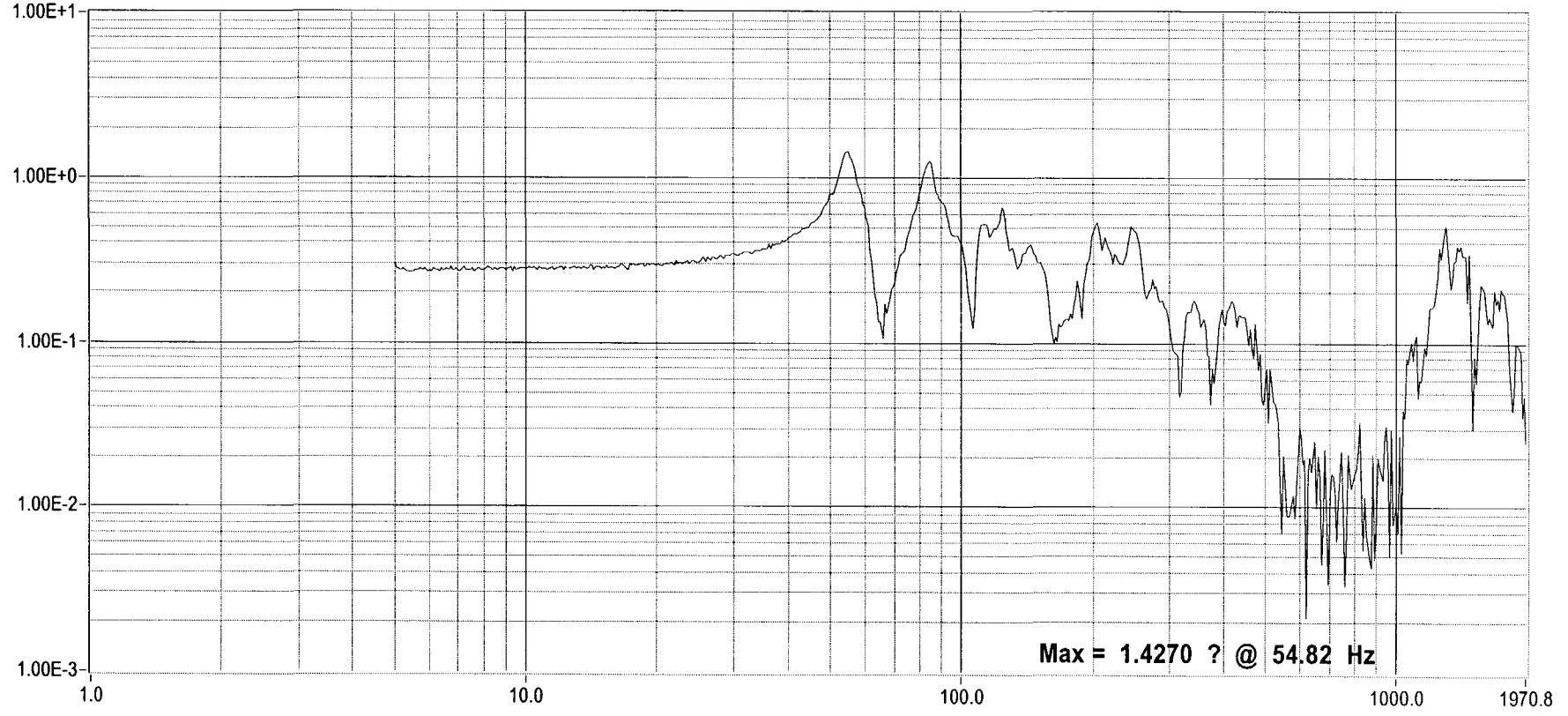
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 43 **Node Number:** 0043

Channel Description: BOX 3 CH 11 SN=AE60

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:19 PM

A2RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A2RZ: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

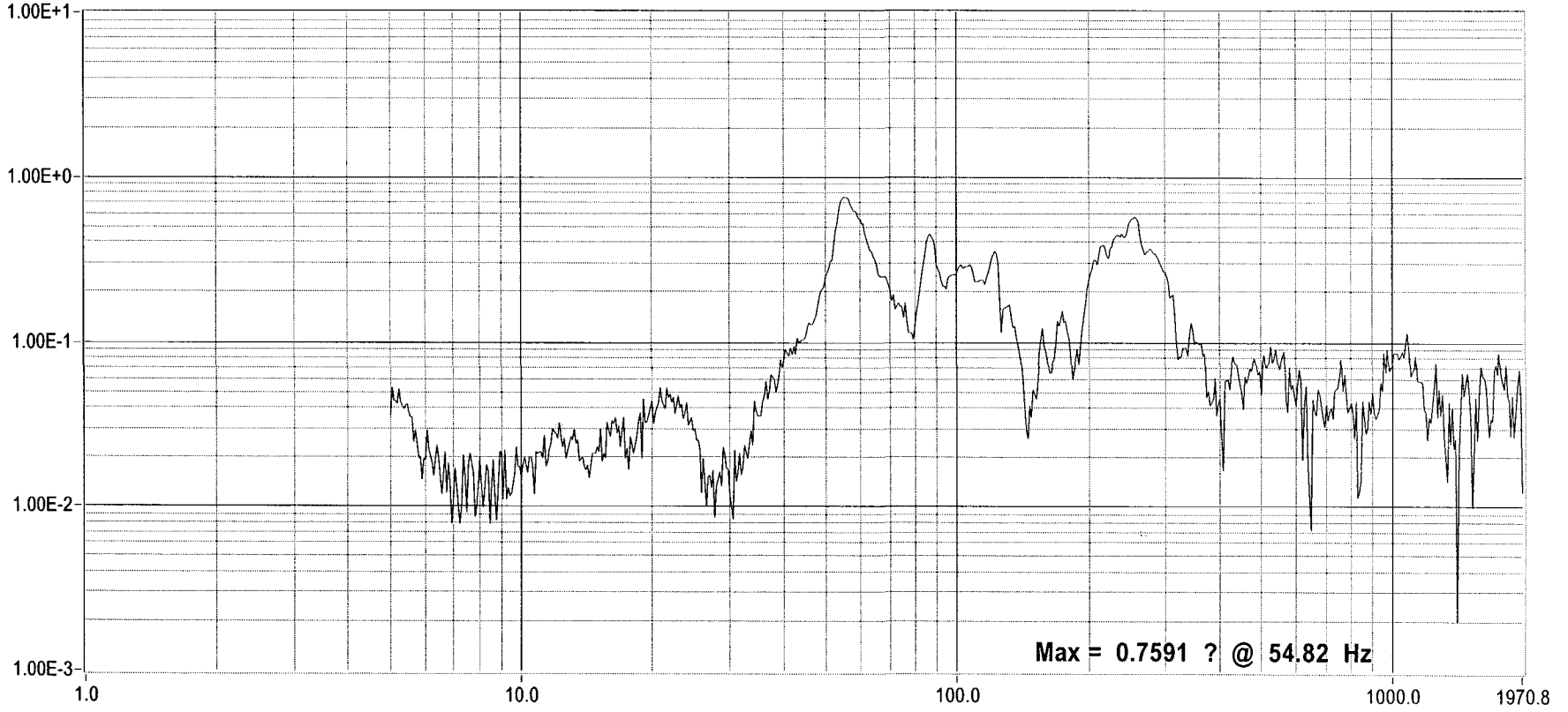
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 44 **Node Number:** 0044

Channel Description: BOX 3 CH 12 SN=AG01

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:19 PM

Frequency HZ

A2RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

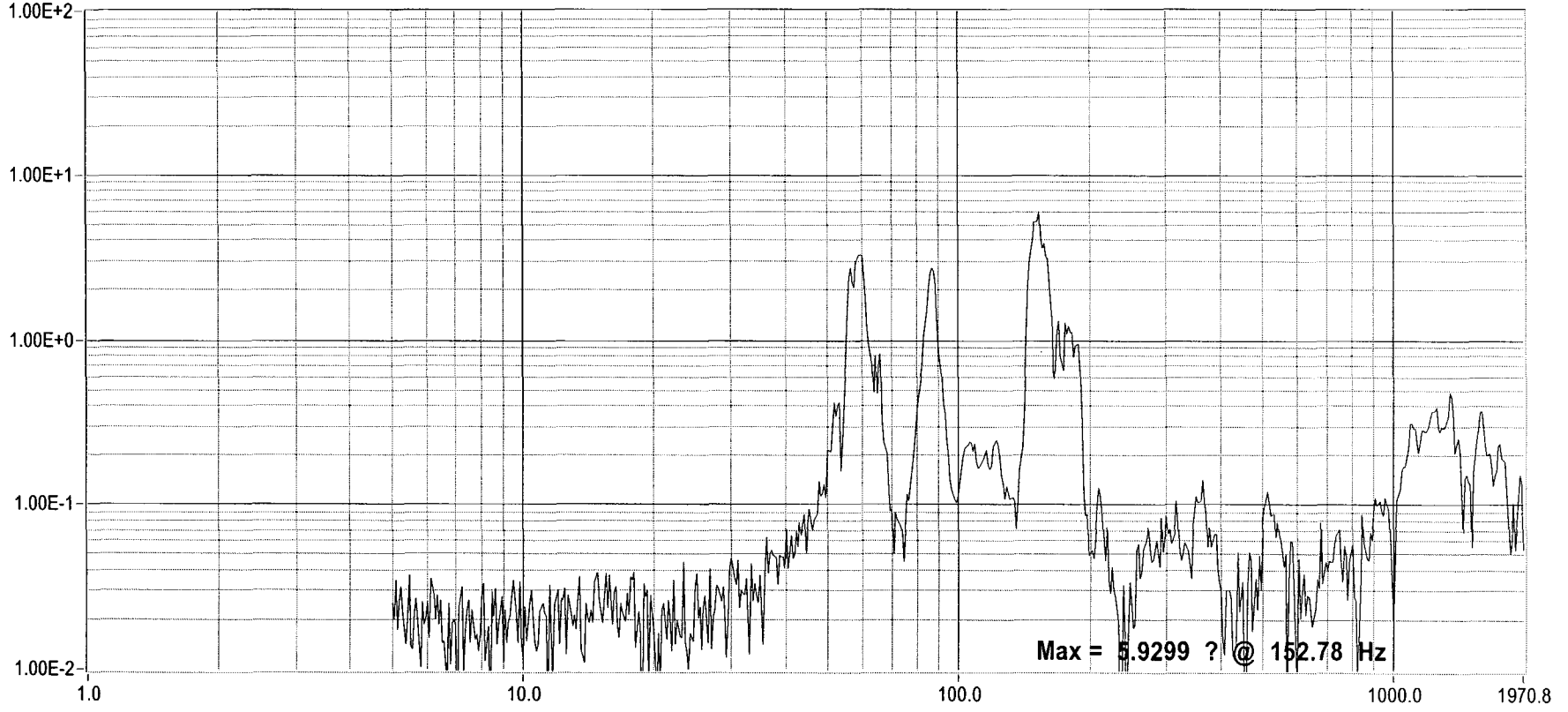
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 17:46:12

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:19 PM

Frequency HZ

A3X: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 46 **Node Number:** 0046

Channel Description: BOX 3 CH 14 SN=AG02

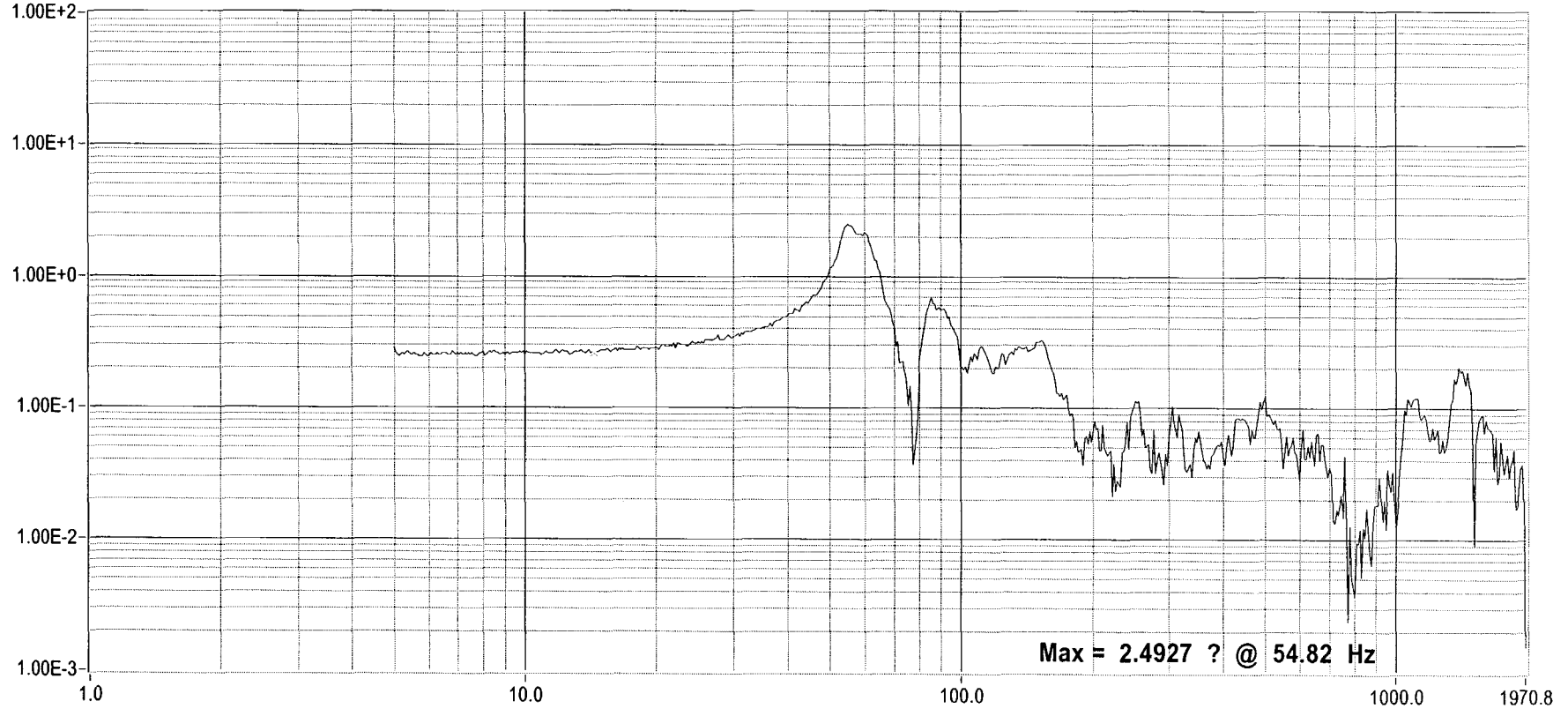
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 17:46:12

A3Y: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:19 PM

Frequency HZ

A3Y: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 47 **Node Number:** 0047

Channel Description: BOX 3 CH 15 SN=BC12

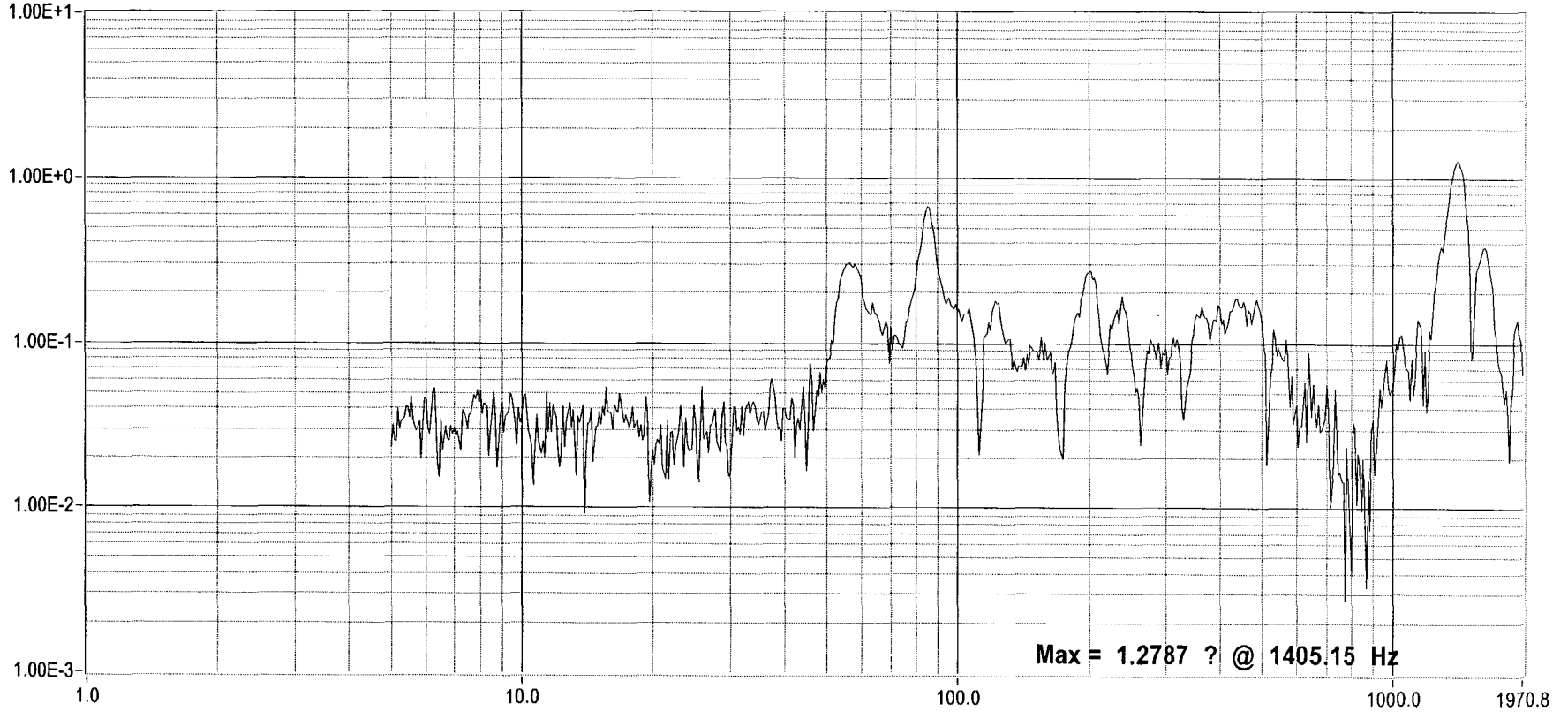
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 17:46:12

A3Z: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:20 PM

Frequency HZ

A3Z: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A3RX: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

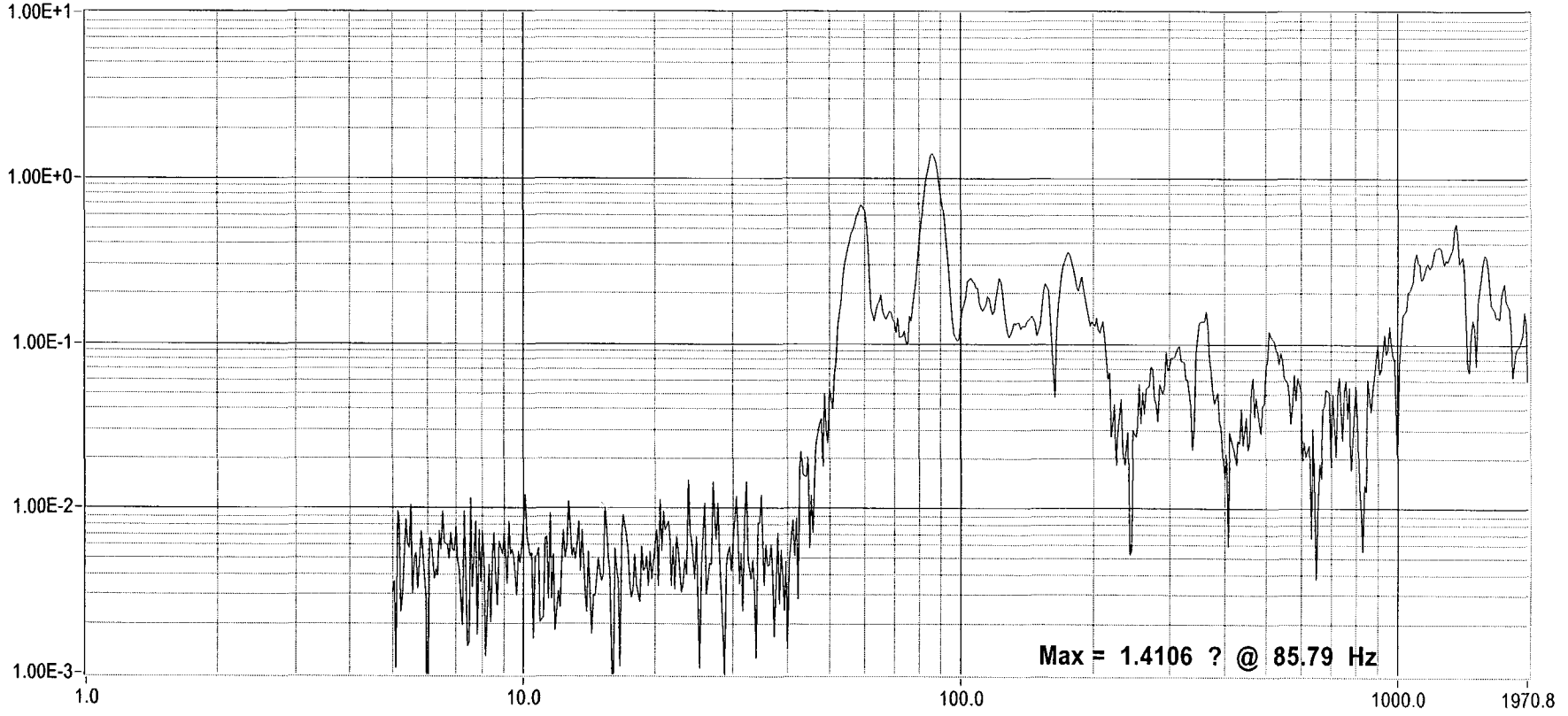
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 48 **Node Number:** 0048

Channel Description: BOX 3 CH 16 SN=AE43

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:20 PM

Frequency HZ

A3RX: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A3RY: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

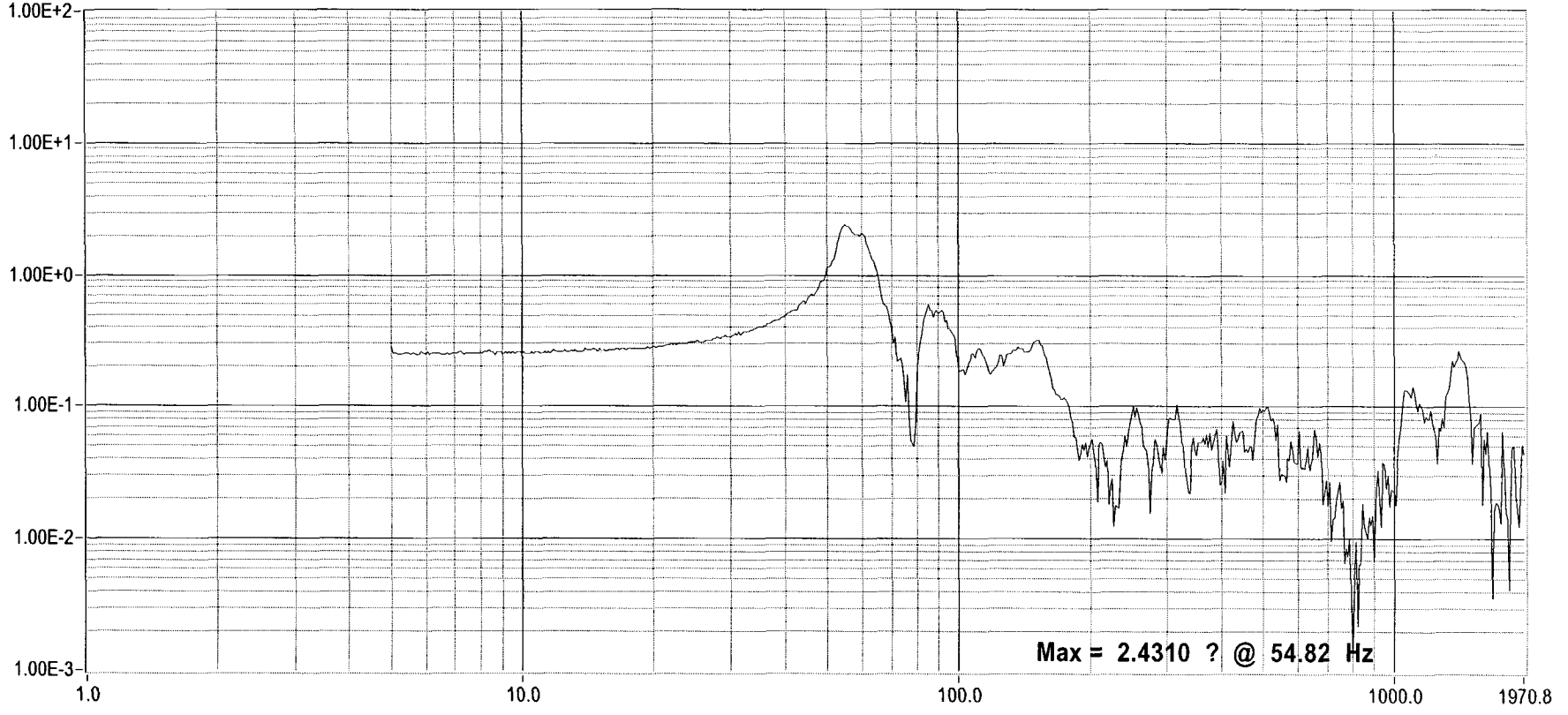
Channel #: 49 **Node Number:** 0049

Channel Description: BOX 4 CH 1 SN=AF57

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:20 PM

Frequency HZ

A3RY: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: **24-Jun-2002 17:46:12**

A3RZ: +X PANEL UPPER CCU

Test Type: **Sine**

Test: **HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP**

Specimen **HIRDLS VIBRATION TEST**

Test File Number: **062410**

Part Number/ID: **Y4011**

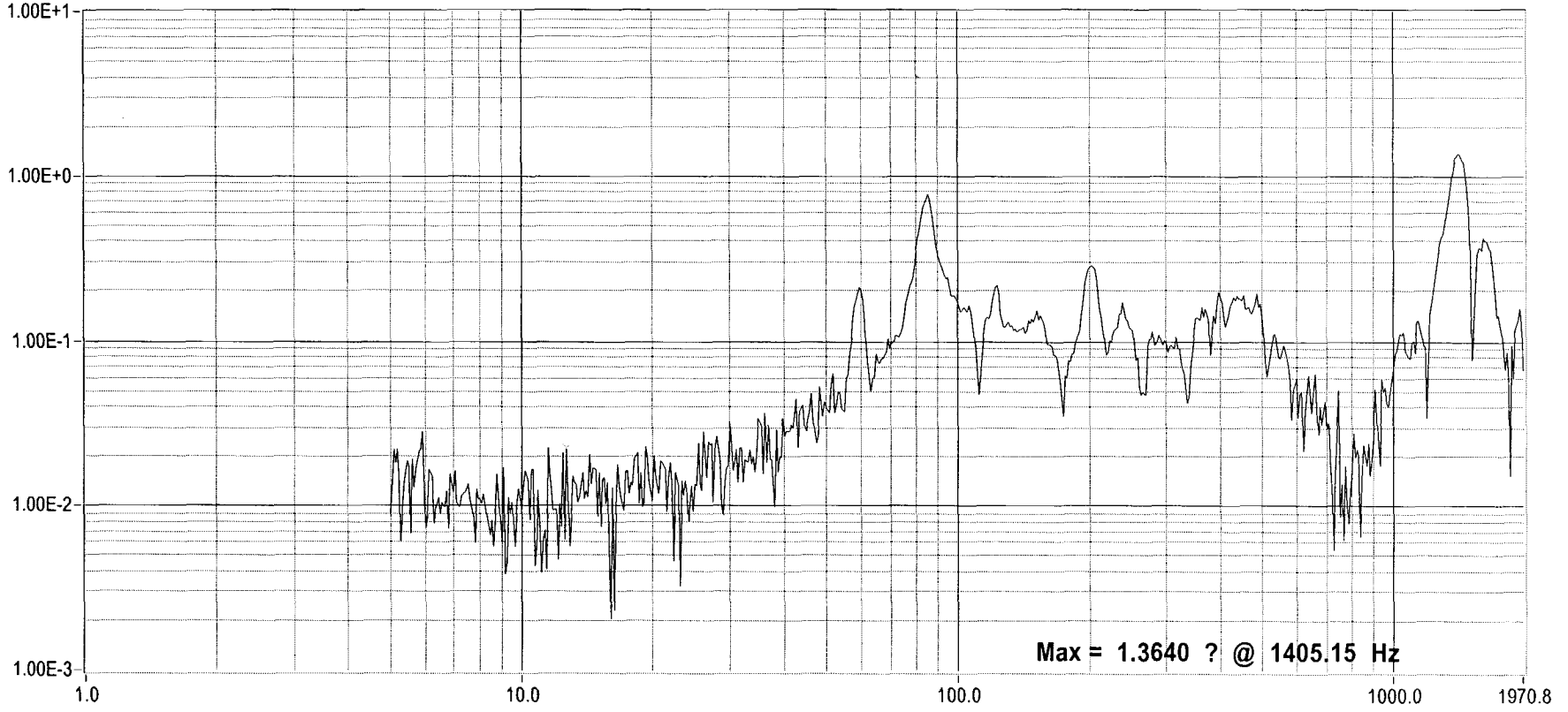
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: **50** **Node Number:** **0050**

Channel Description: **BOX 4 CH 2 SN=AB65**

Test File Name: **D:\Test\Test 2002\Y4011 HIRDLS\SINE.set**

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:20 PM

Frequency HZ

A3RZ: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 51 **Node Number:** 0051

Channel Description: BOX 4 CH 3 SN=AH55

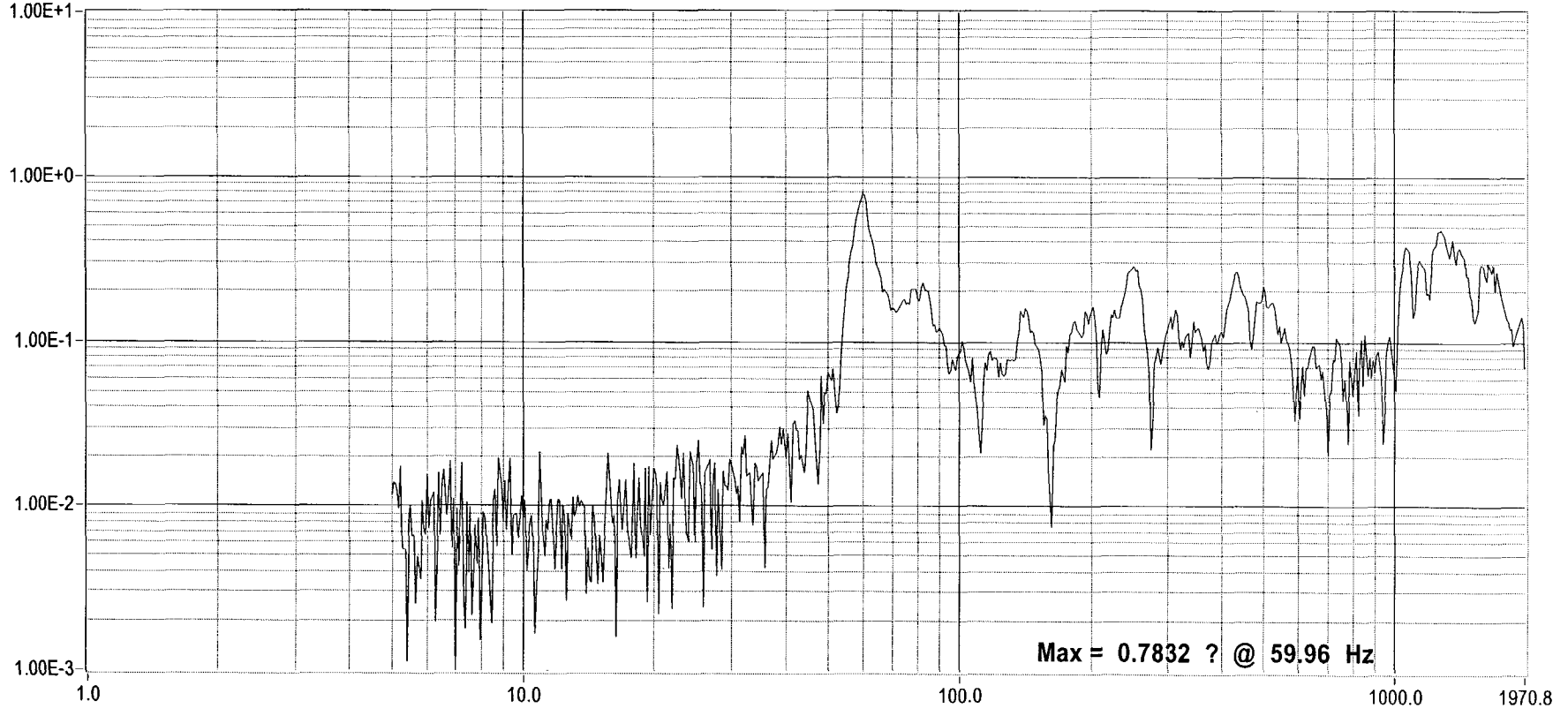
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 17:46:12

A4X: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:21 PM

Frequency HZ

A4X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A4Y: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

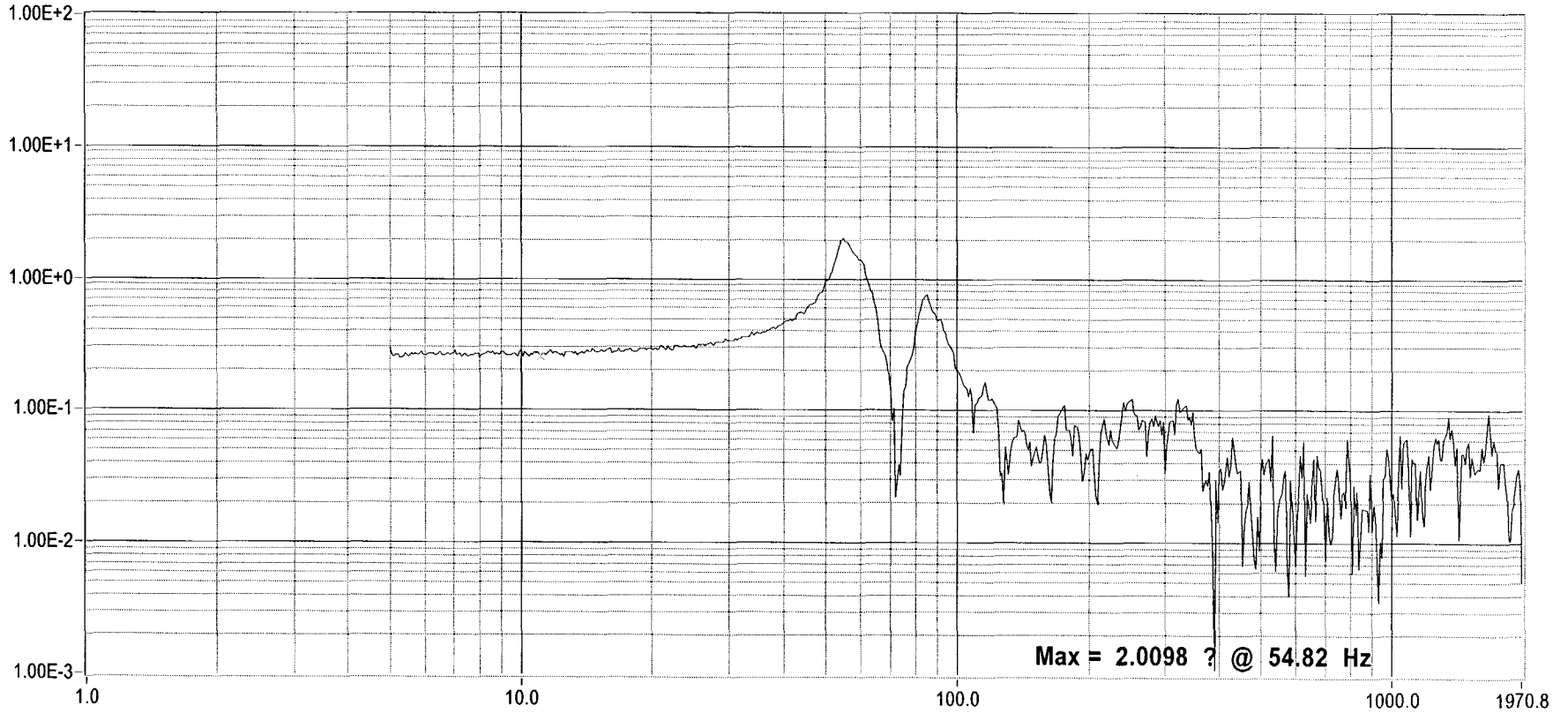
Channel #: 52 **Node Number:** 0052

Channel Description: BOX 4 CH 4 SN=AJ95

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:21 PM

Frequency HZ

A4Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A4Z: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

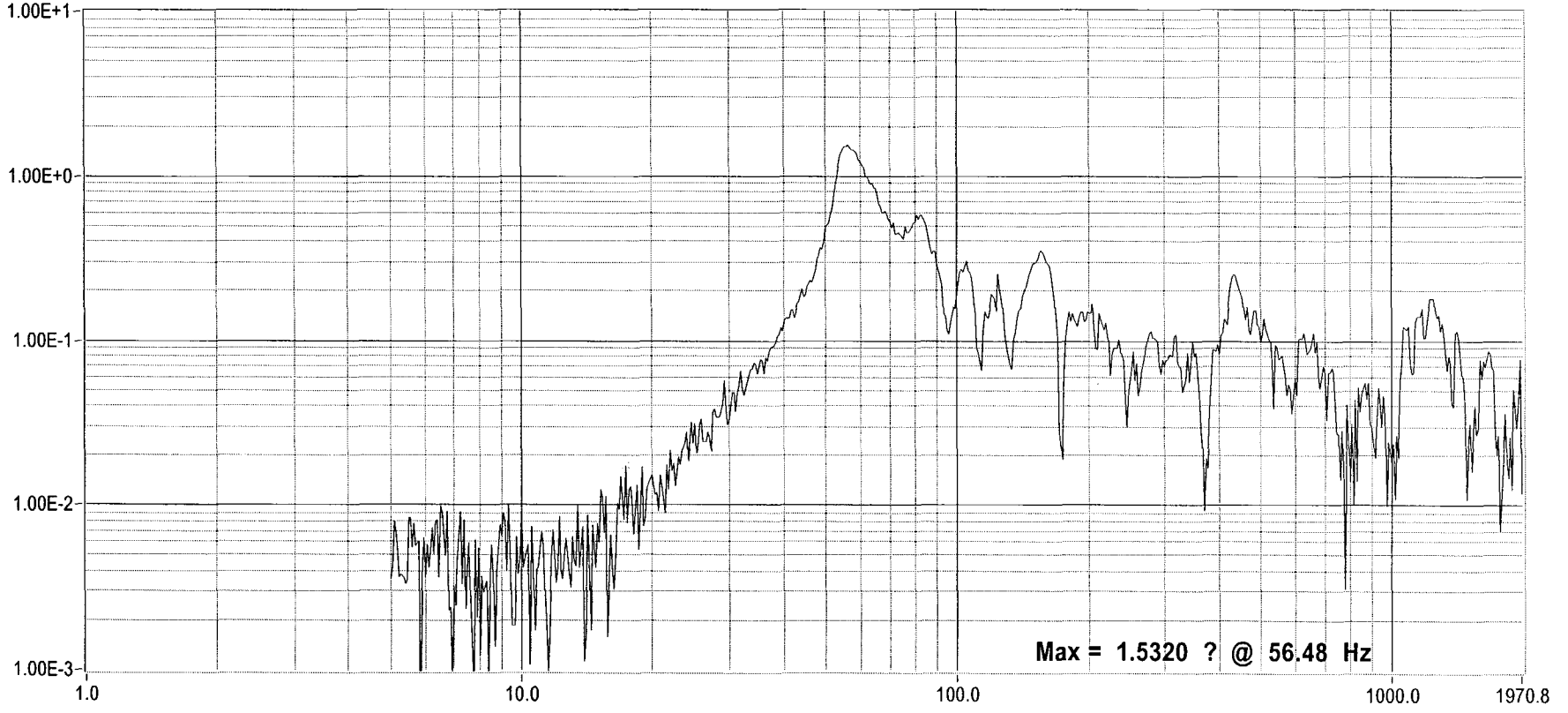
Channel #: 53 **Node Number:** 0053

Channel Description: BOX 4 CH 5 SN=AB55

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:21 PM

Frequency HZ

A4Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 54 **Node Number:** 0054

Channel Description: BOX 4 CH 6 SN=AF10

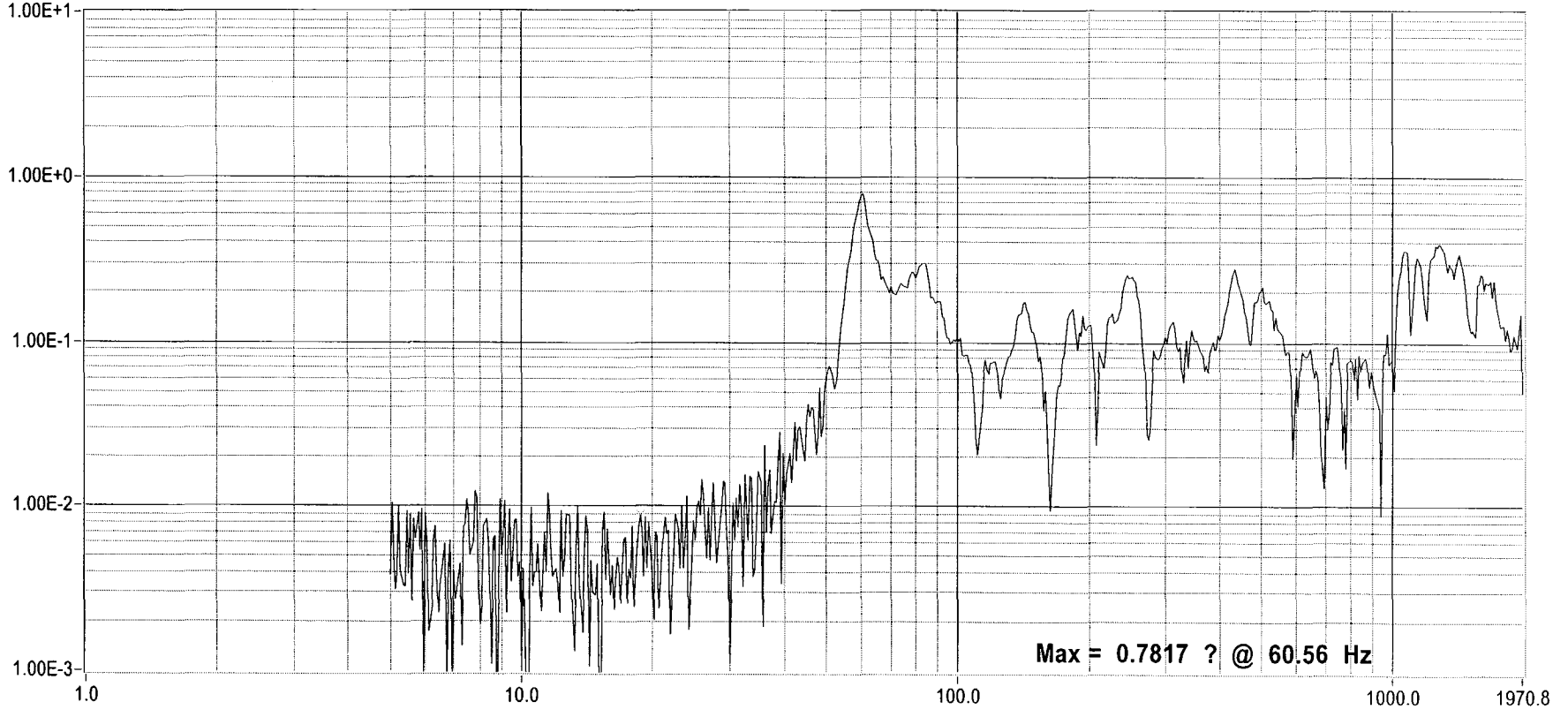
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 17:46:12

A4RX: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:21 PM

Frequency HZ

A4RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

A4RY: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

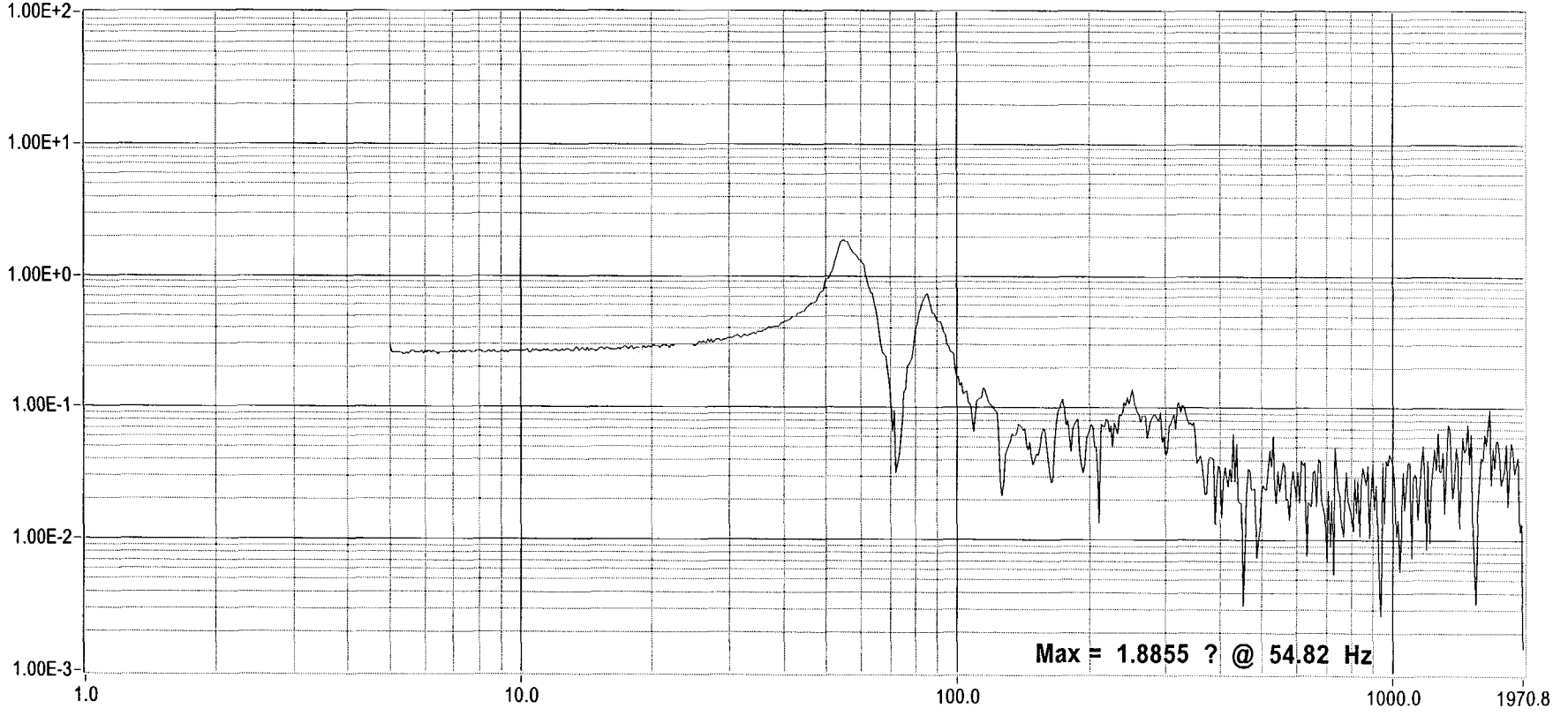
Channel #: 55 **Node Number:** 0055

Channel Description: BOX 4 CH 7 SN=AF56

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:22 PM

Frequency HZ

A4RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

Channel #: 56 **Node Number:** 0056

Channel Description: BOX 4 CH 8 SN=AD53

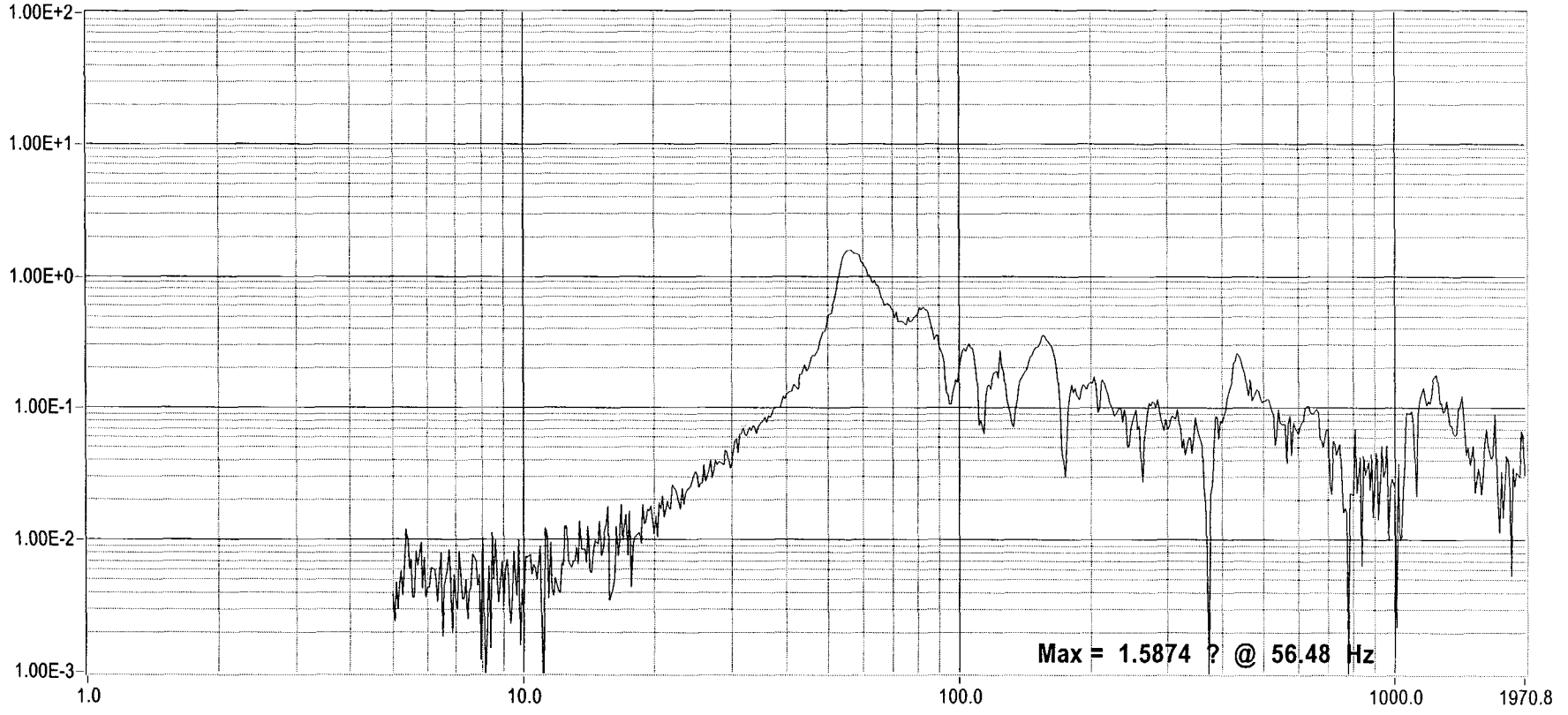
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 17:46:12

A4RZ: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:22 PM

Frequency HZ

A4RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 17:46:12

F1: FLY AWAY

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062410

Part Number/ID: Y4011

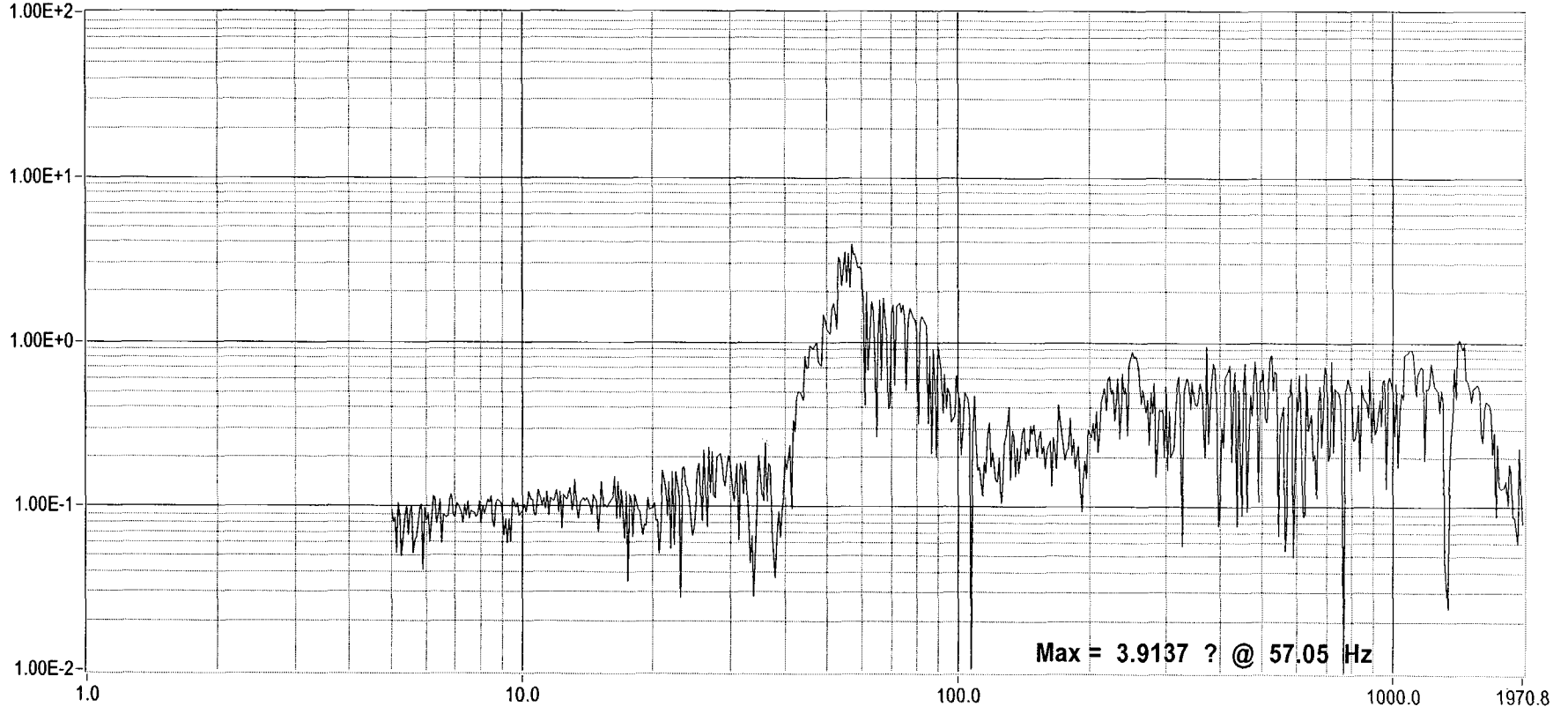
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS .25 SINE SWEEP

Channel #: 57 **Node Number:** 0057

Channel Description: BOX 4 CH 9 SN=BF27

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:22 PM

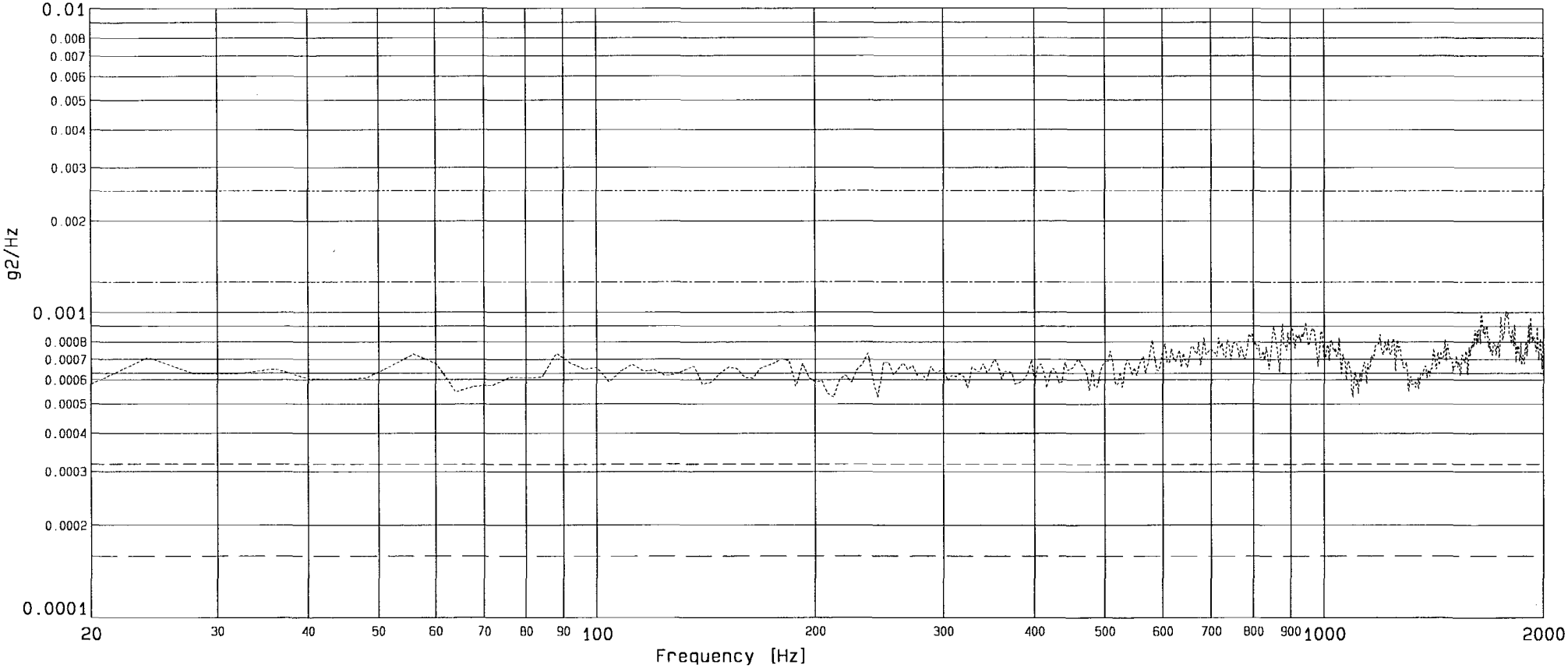
Frequency HZ

F1: FLY AWAY

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date :	24-06-02
Test	: Y_HIRDLS	Time :	18:55:59
Run	: 1 062411	Mode :	Random Vibration Control

Test level	: -12.00dB	Number of lines in alarm	: 0	Trace identification :	Reference
Elapsed time	: 00:00:30.3	Number of lines in abort	: 0		Avg Ctrl
Degrees of freedom	: 280	Reference level RMS	: 1.12 g		Upper Al
Control strategy	: Average	Control level RMS	: 1.19 g		Lower Al
Frequency resolution	: 4 Hz	Nbr of control channels	: 2		Upper Ab
					Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

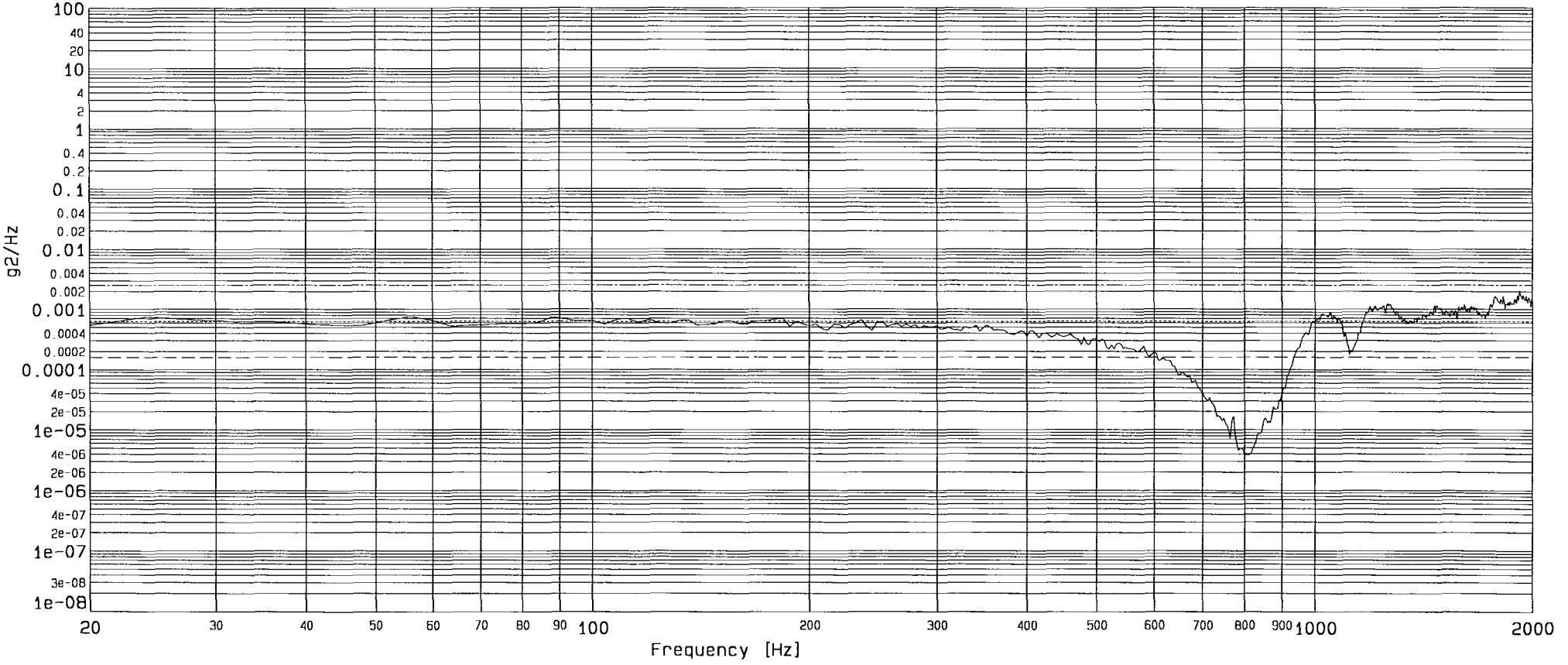
Project : hirdls
Test : Y_HIRDLS
Run : 1 062411

Date : 24-06-02
Time : 18:55:59
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.3
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.13 g
Number of averages : 76

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

LMS

LOCKHEED MARTIN MISSILES & SPACE

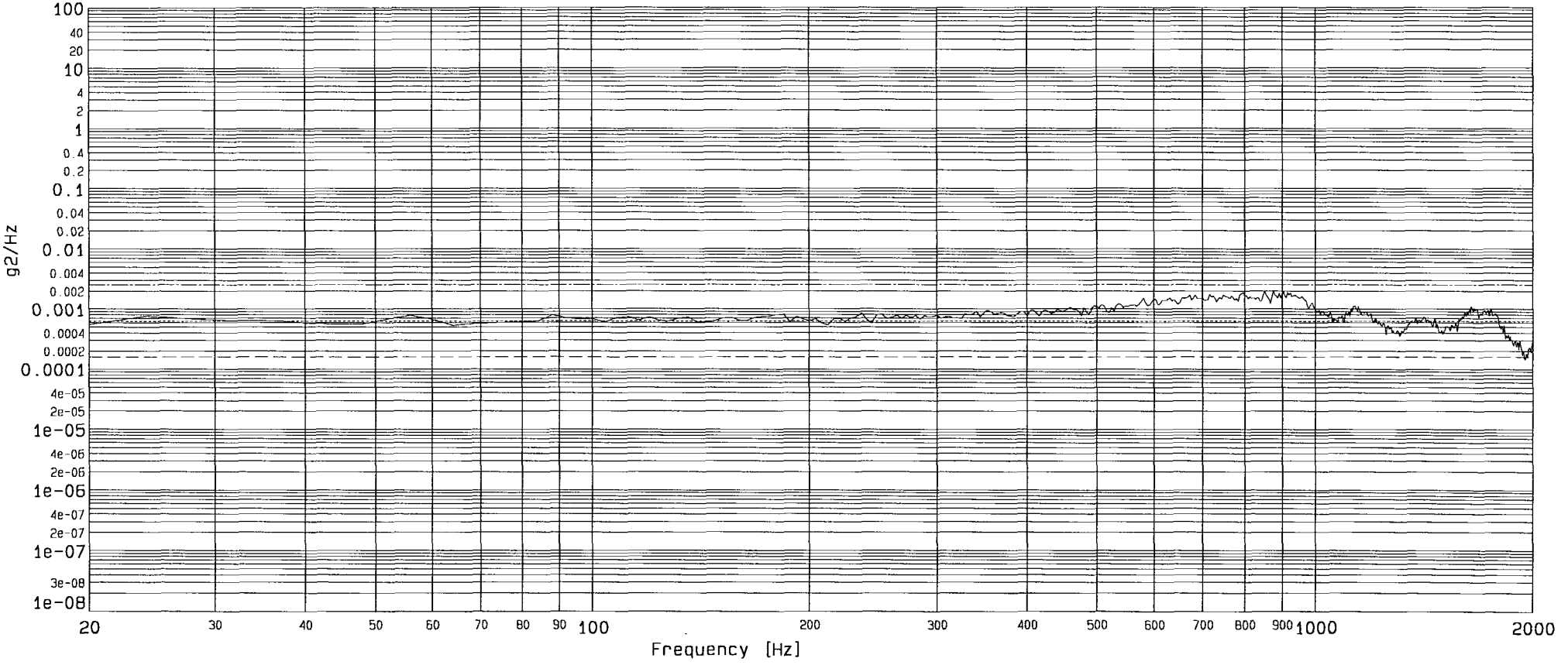
Project : hirdls
Test : Y_HIRDLS
Run : 1 062411

Date : 24-06-02
Time : 18:55:59
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.3
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.30 g
Number of averages : 76

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

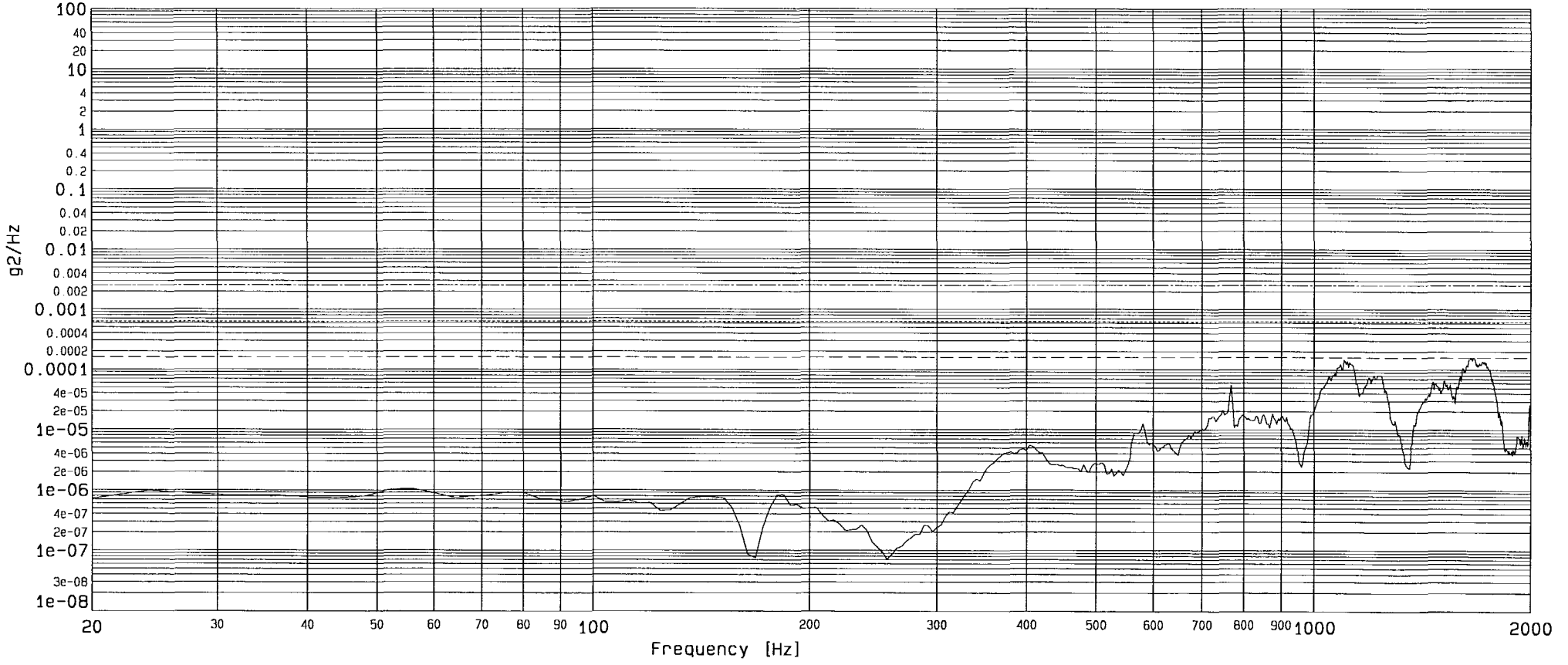
Project : hirdls
Test : Y_HIRDLS
Run : 1 062411

Date : 24-06-02
Time : 18:55:59
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.3
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 243.03e-03 g
Number of averages : 76

Trace identification :
N_CONTROL_X
Reference
Upper Ab
Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

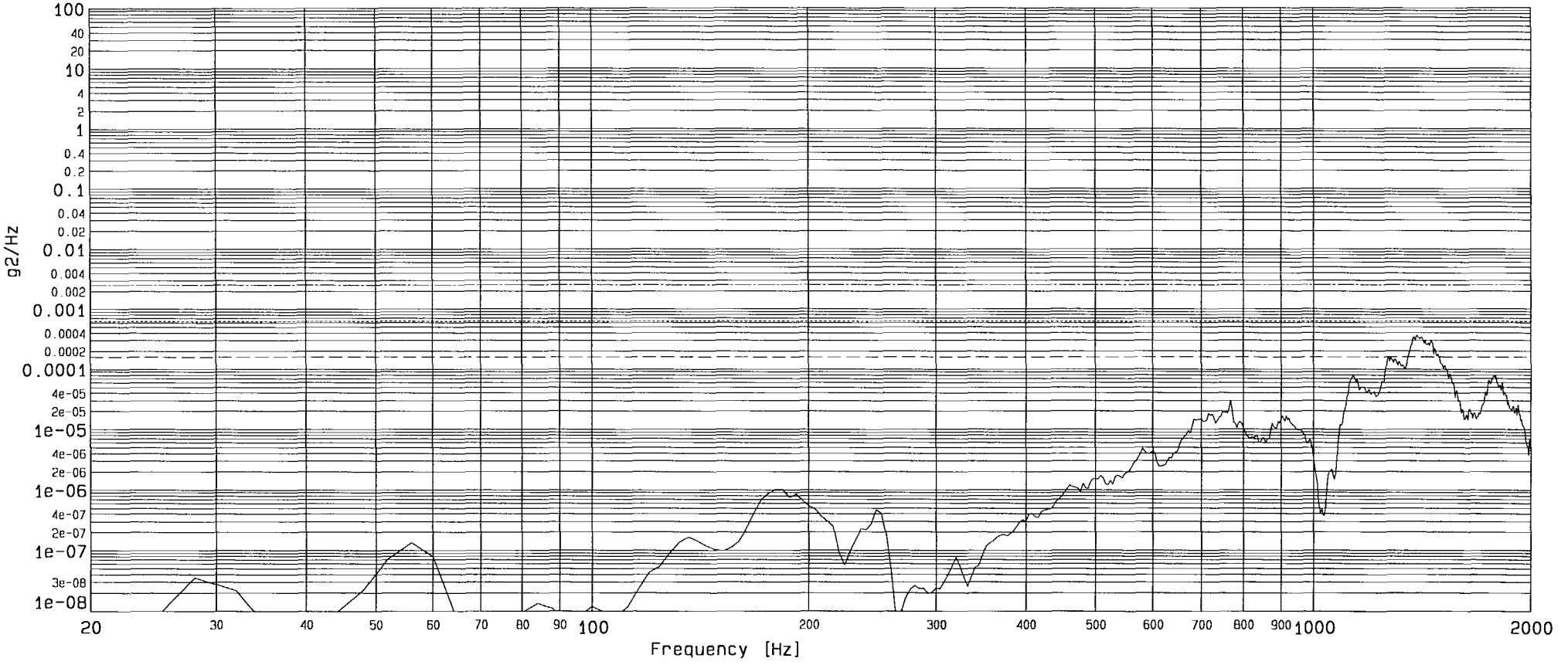
Project : hirdls
Test : Y_HIRDLS
Run : 1 062411

Date : 24-06-02
Time : 18:55:59
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.3
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 287.54e-03 g
Number of averages : 76

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

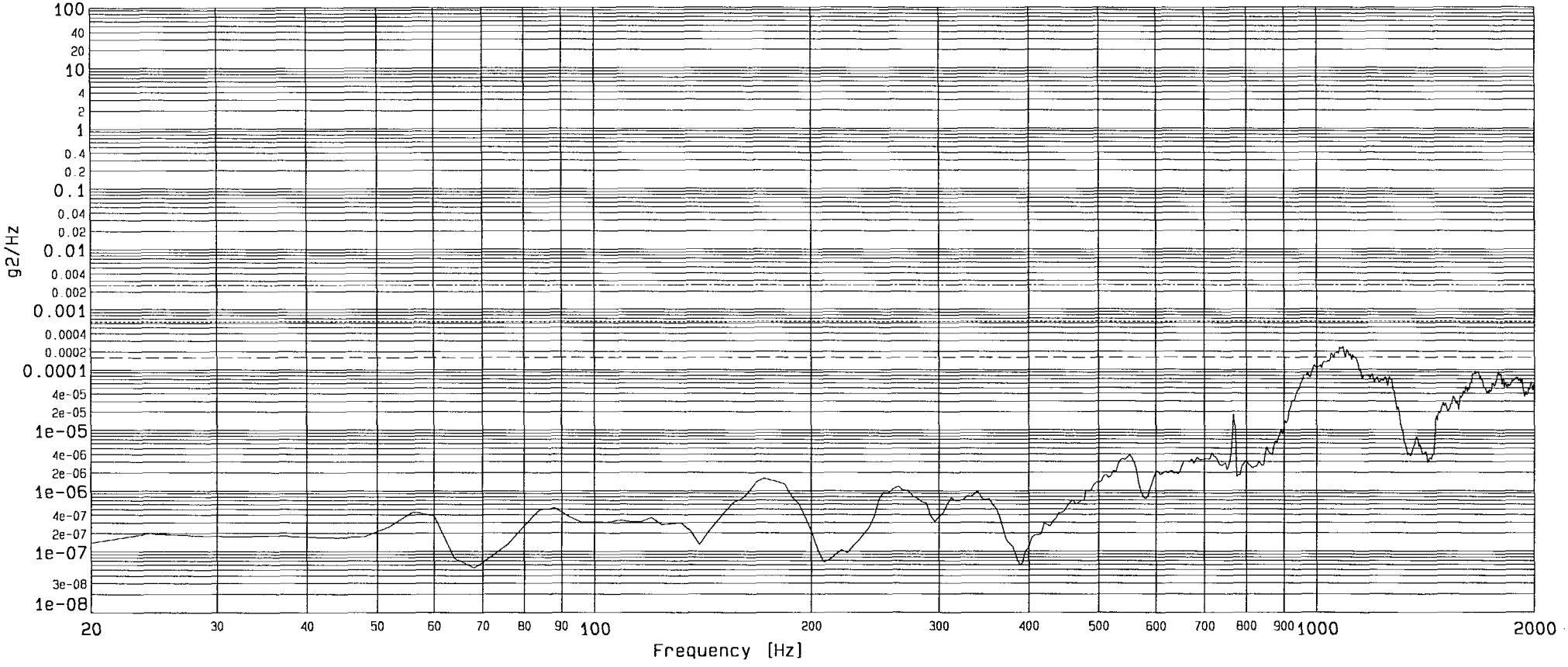
Project : hirdls
Test : Y_HIRDLS
Run : 1 062411

Date : 24-06-02
Time : 18:55:59
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.3
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 264.77e-03 g
Number of averages : 76

Trace identification :
S_CONTROL_X
Reference
Upper Ab
Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

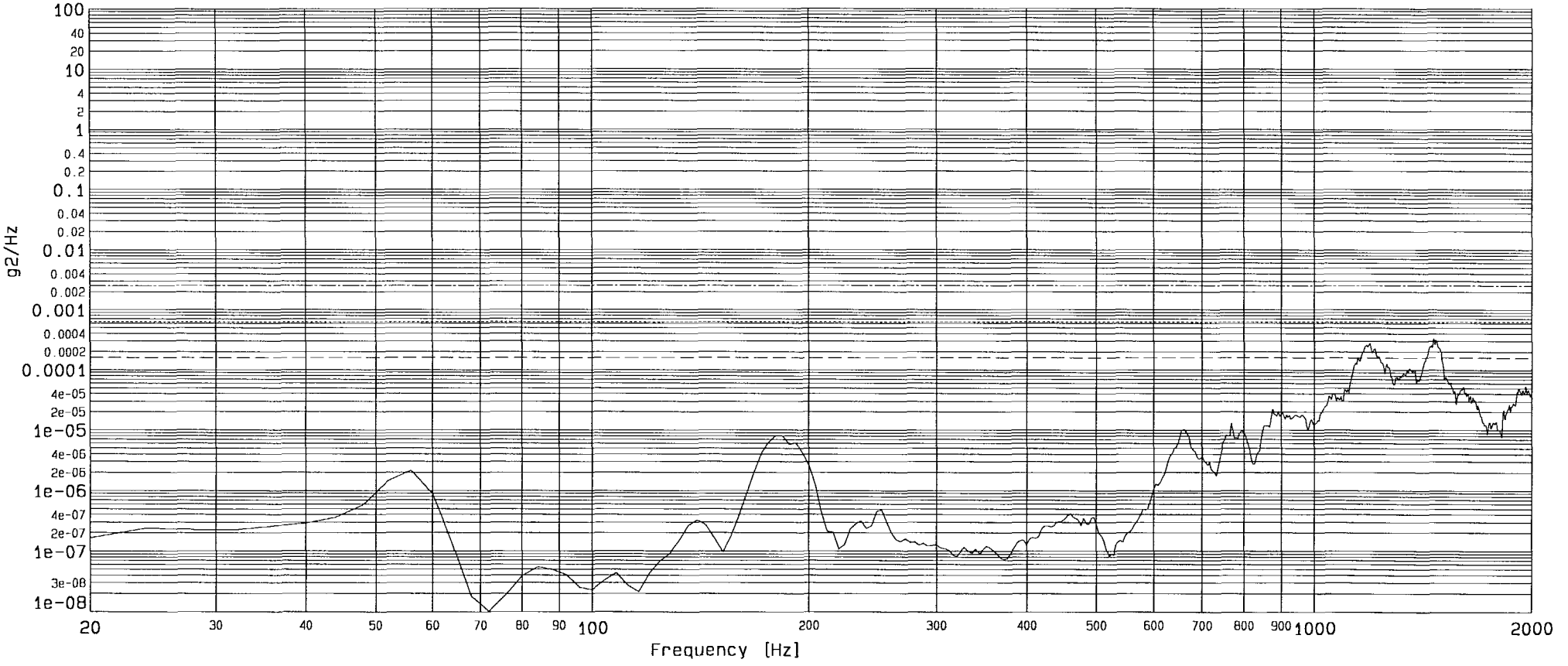
Project : hirdls
Test : Y_HIRDLS
Run : 1 062411

Date : 24-06-02
Time : 18:55:59
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.3
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 283.39e-03 g
Number of averages : 76

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

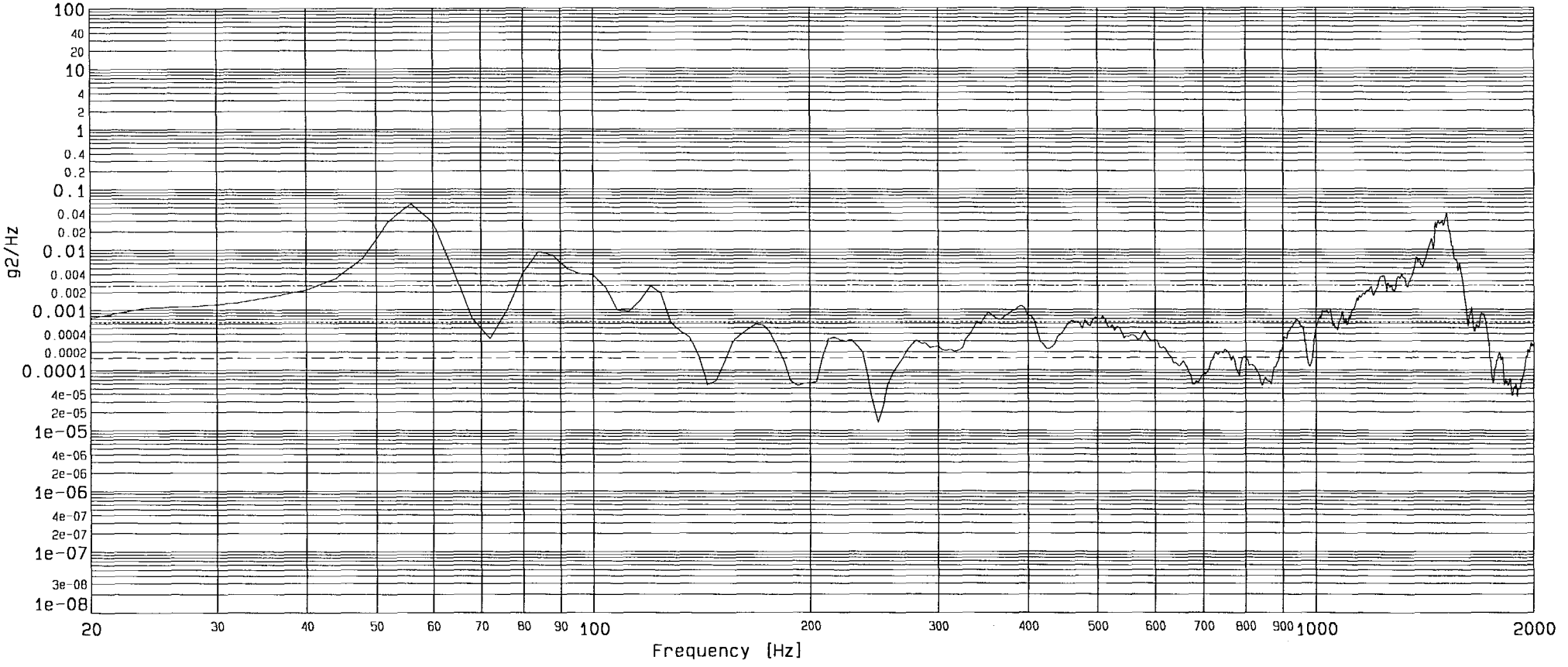
Project : hirdls
Test : Y_HIRDLS
Run : 1 062411

Date : 24-06-02
Time : 18:55:59
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.3
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.27 g
Number of averages : 76

Trace identification :
- A1Y_YPANEL_UPI
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -12dB

run 062411

date 06-24-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

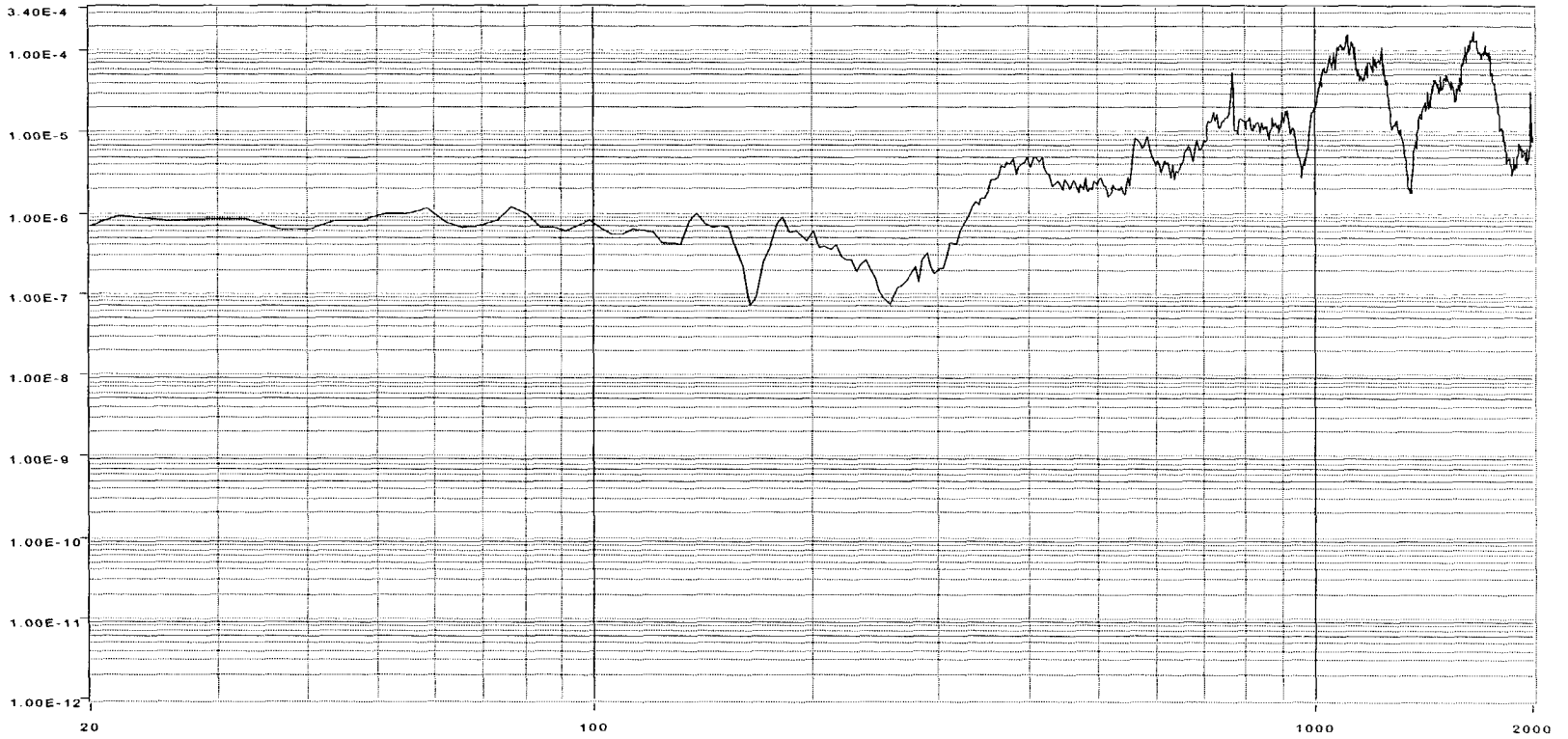
Channel #: 1 Node Number: 0001

Channel Label: North_Control_X

Channel Description:

Start Time: 27.00

RMS= 2.252E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

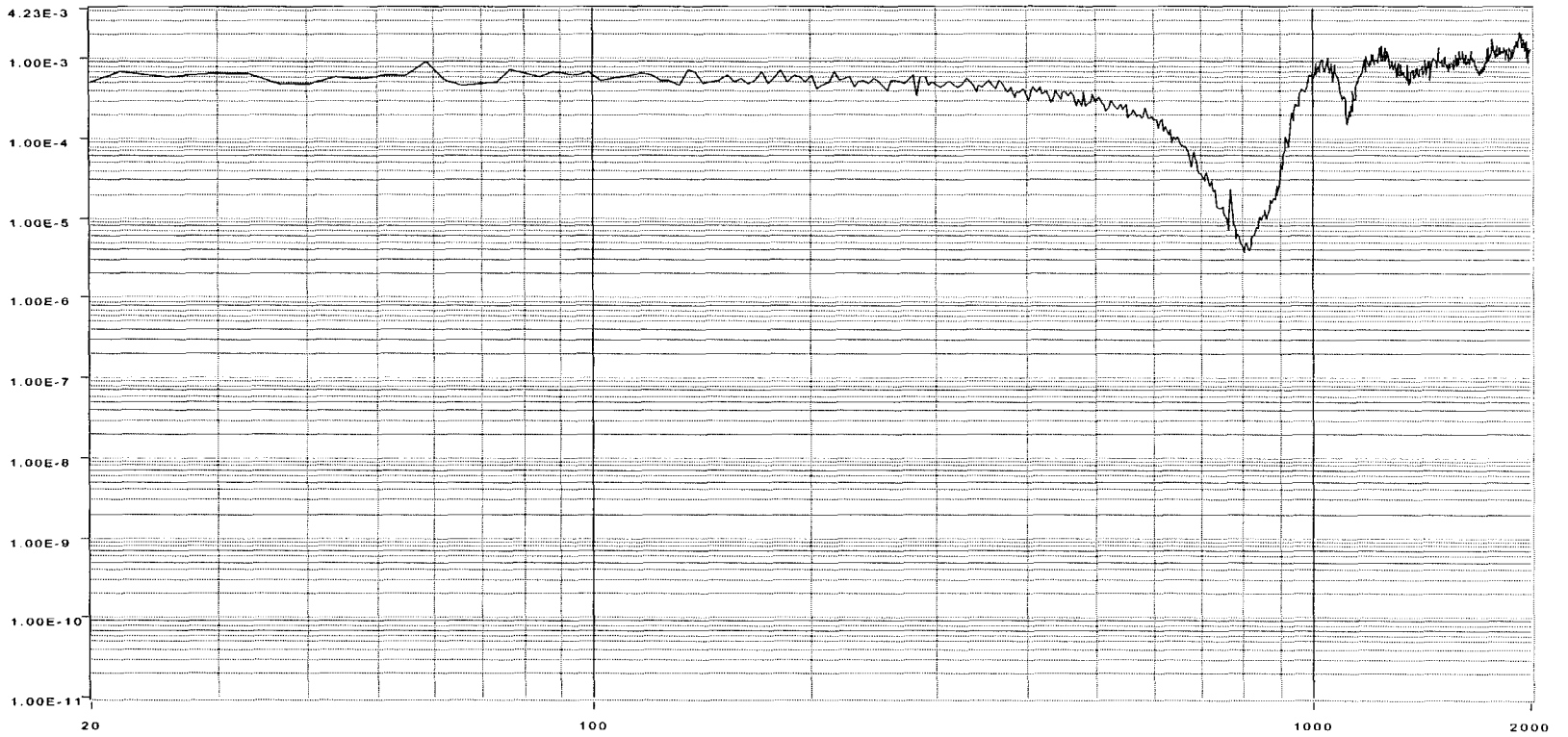
Channel #: 2 **Node Number:** 0002

Channel Label: North_Control_Y

Channel Description:

Start Time: 27.00

RMS= 1.101E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

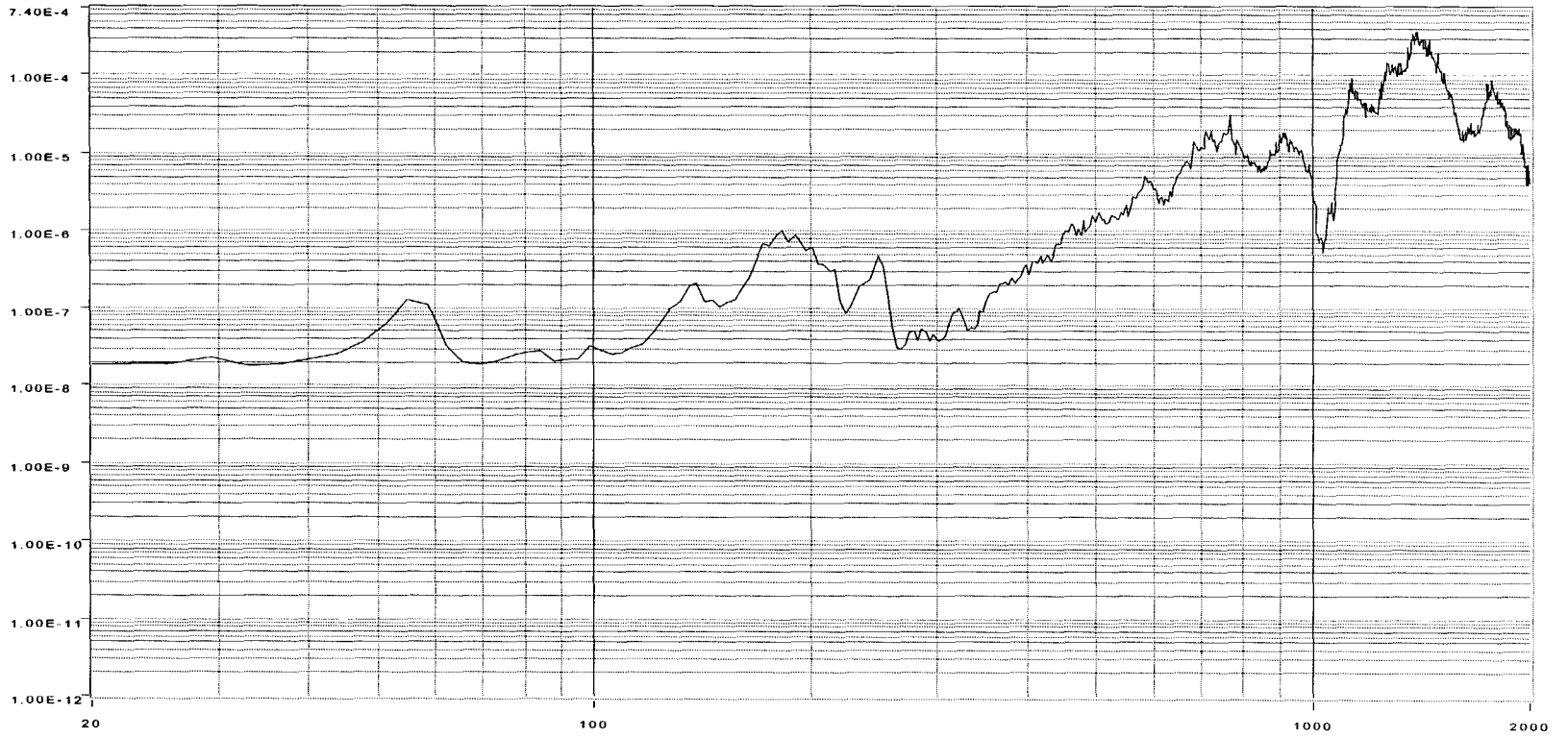
Channel #: 3 **Node Number:** 0003

Channel Label: North_Control_Z

Channel Description:

Start Time: 27.00

RMS= 2.741E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

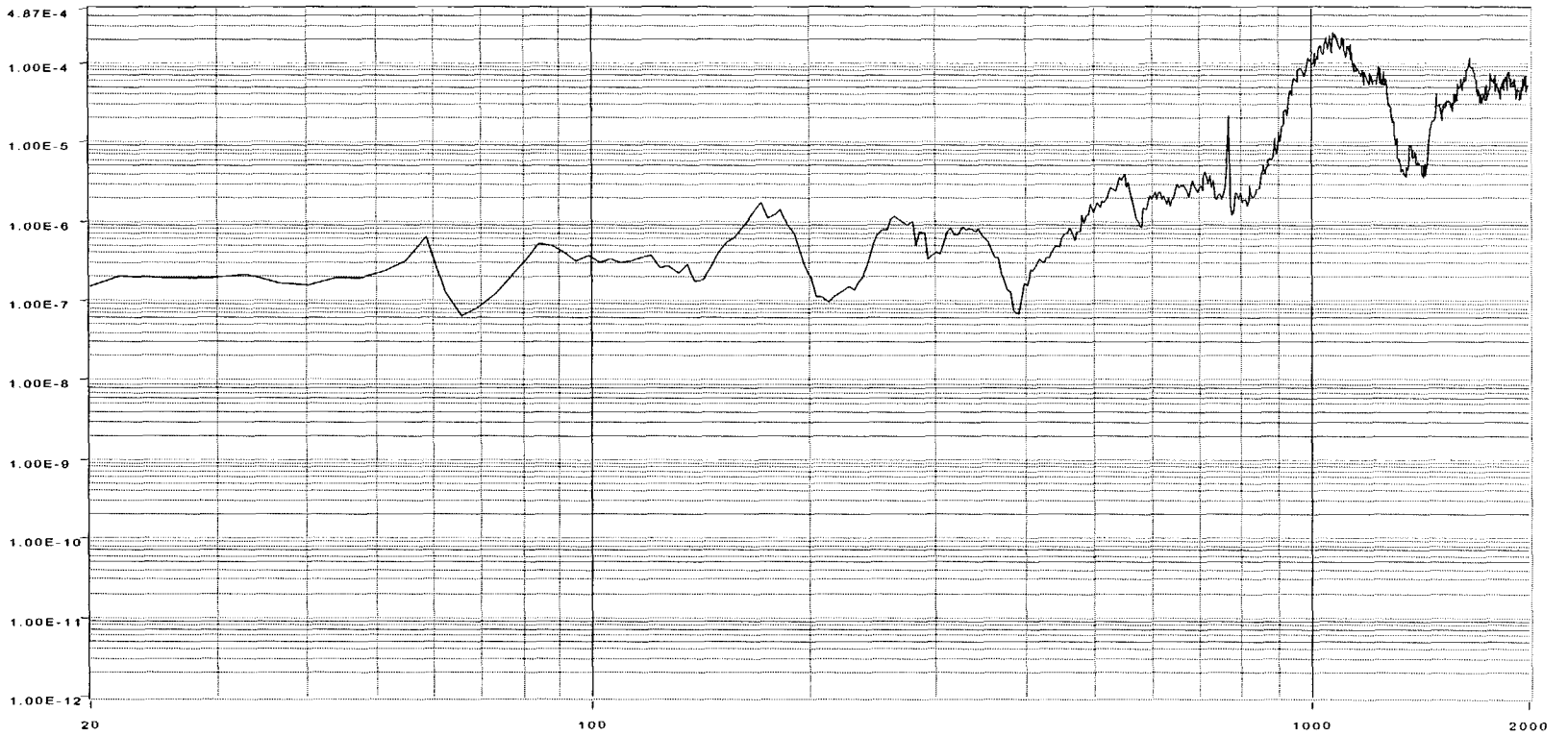
Channel #: 4 Node Number: 0004

Channel Label: South_Control_X

Channel Description: I

Start Time: 27.00

RMS= 2.579E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

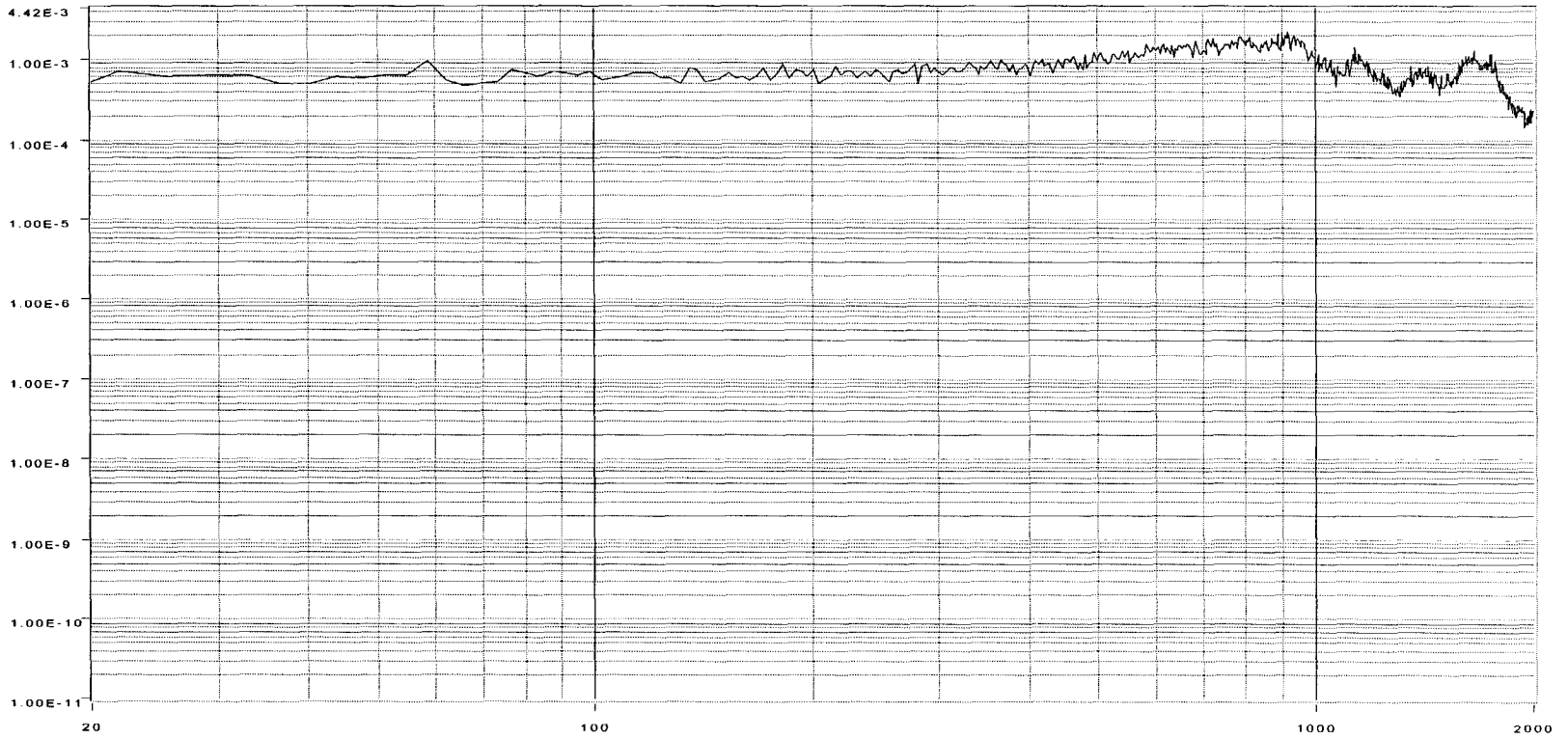
Channel #: 5 **Node Number:** 0005

Channel Label: South_Control_Y

Channel Description:

Start Time: 27.00

RMS= 1.300E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

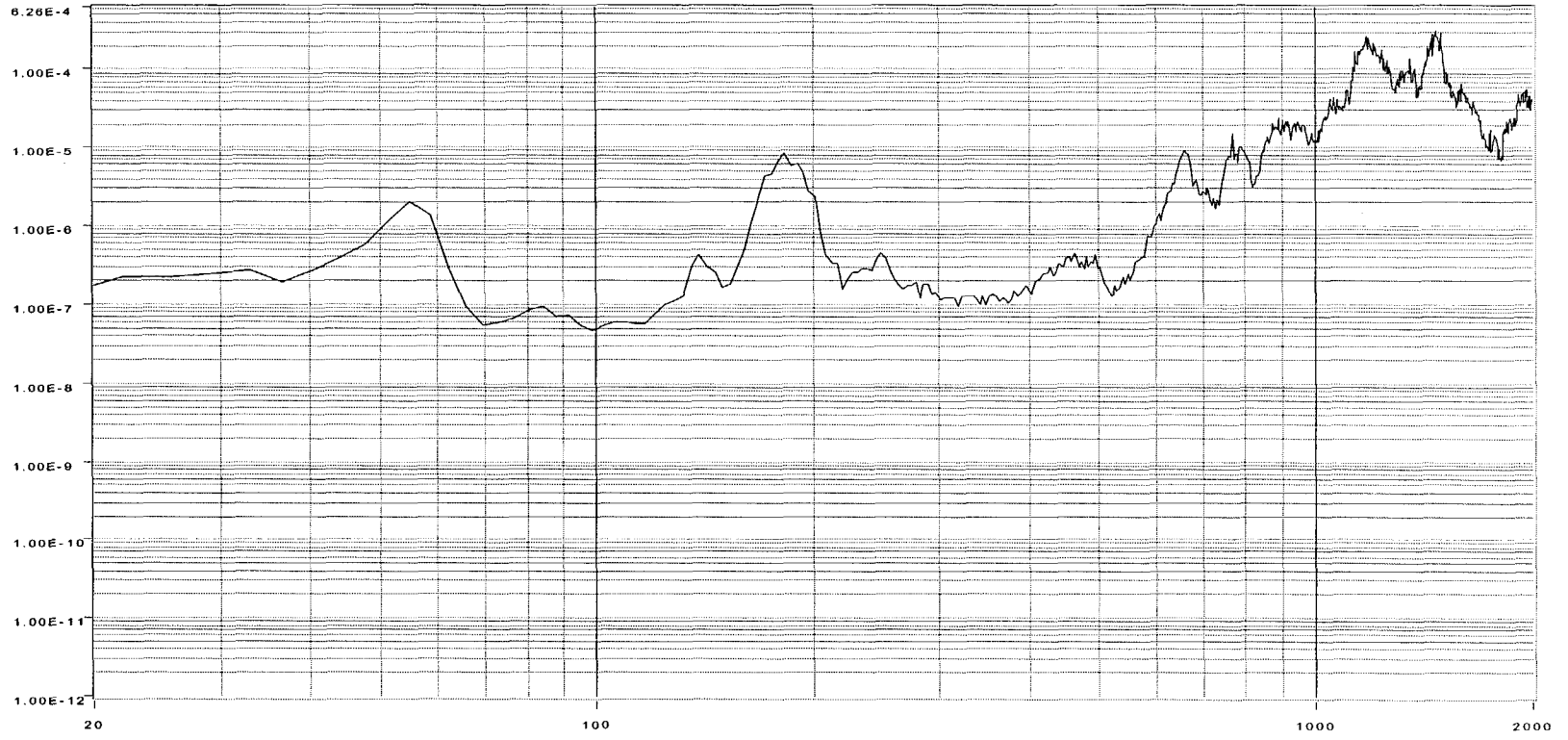
Channel #: 6 **Node Number:** 0006

Channel Label: South_Control_Z

Channel Description:

Start Time: 27.00

RMS= 2.747E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

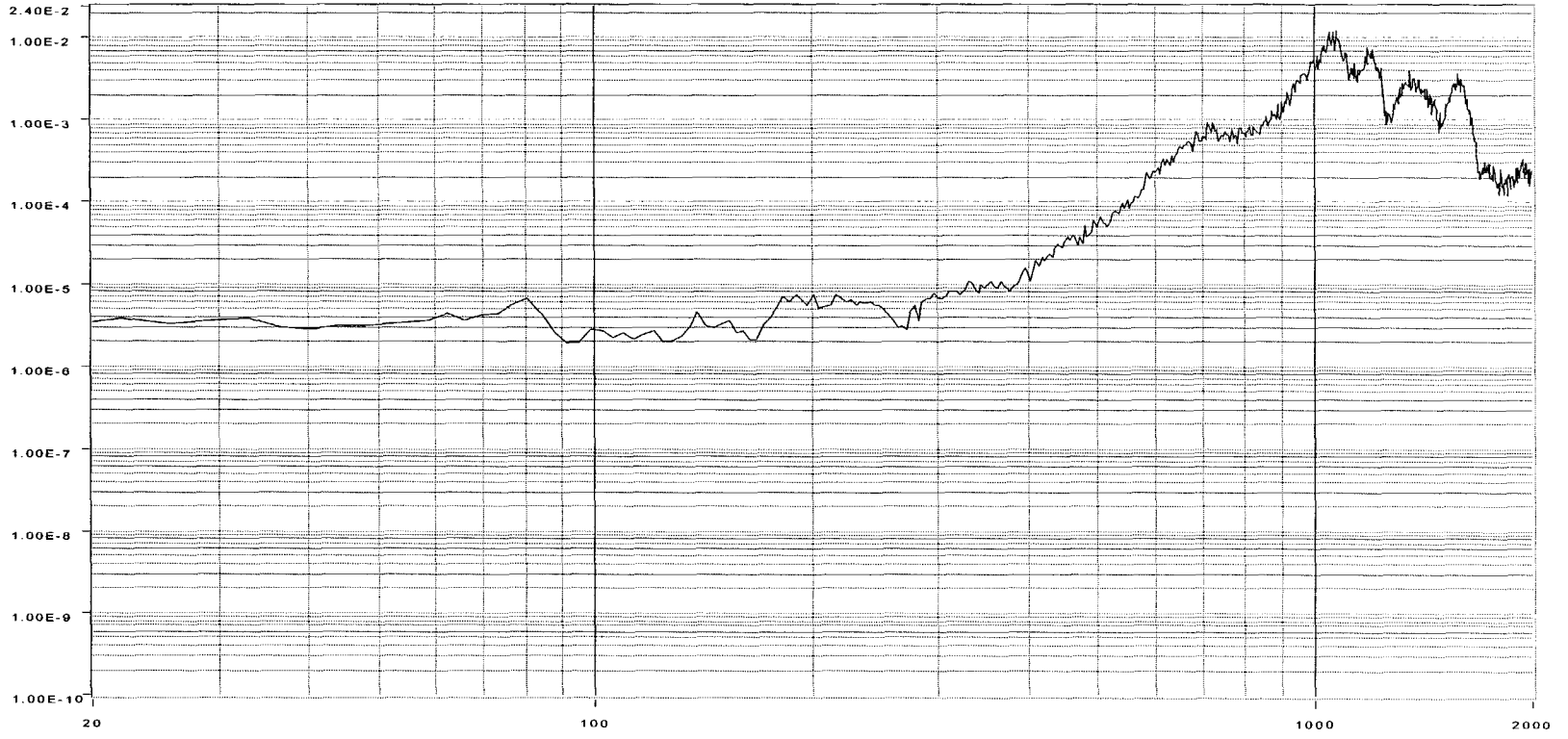
Channel #: 7 Node Number: 0007

Channel Label: A5 X

Channel Description:

Start Time: 27.00

RMS= 1.686E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

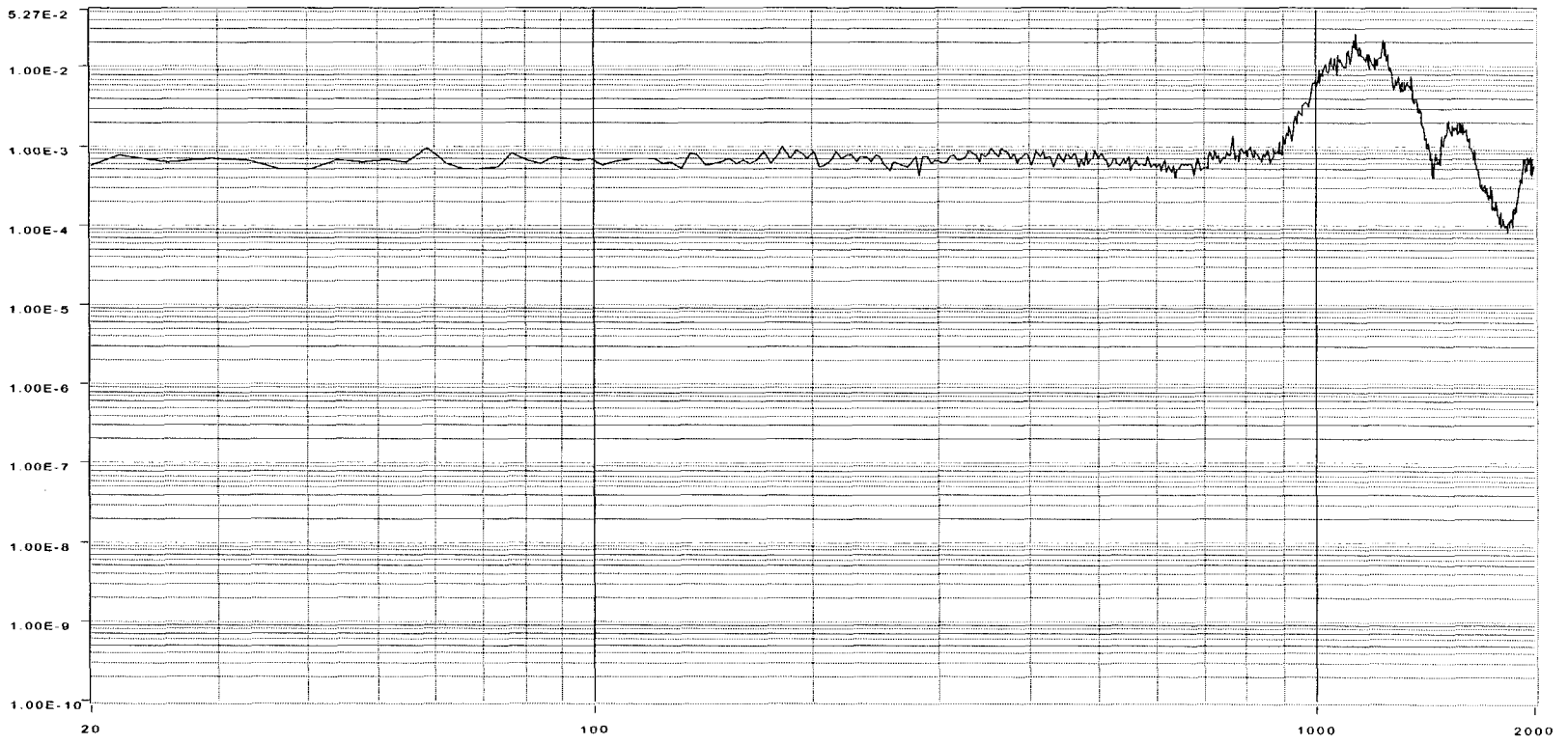
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 27.00

RMS= 2.316E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

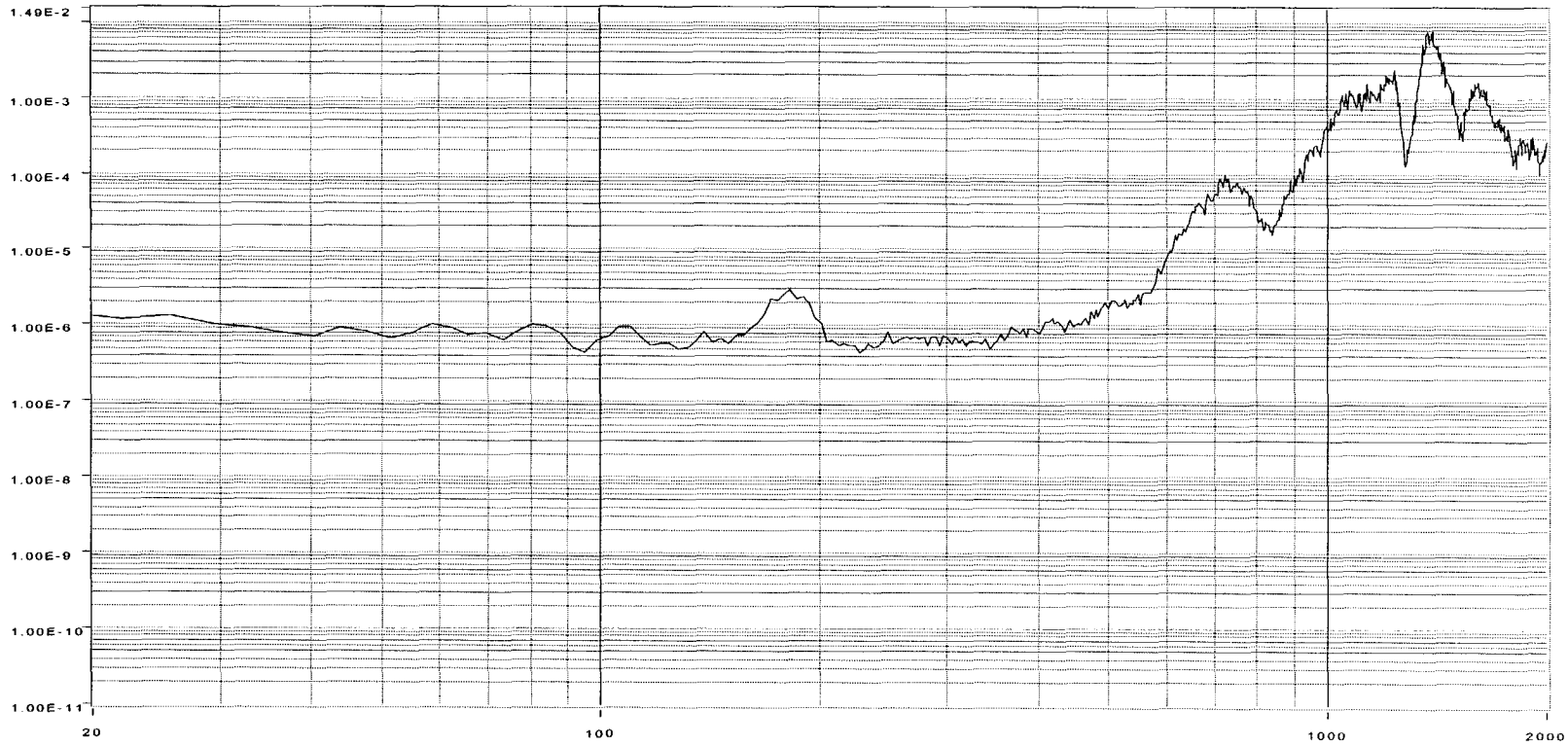
Channel #: 9 Node Number: 0009

Channel Label: A5 Z

Channel Description:

Start Time: 27.00

RMS= 1.089E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

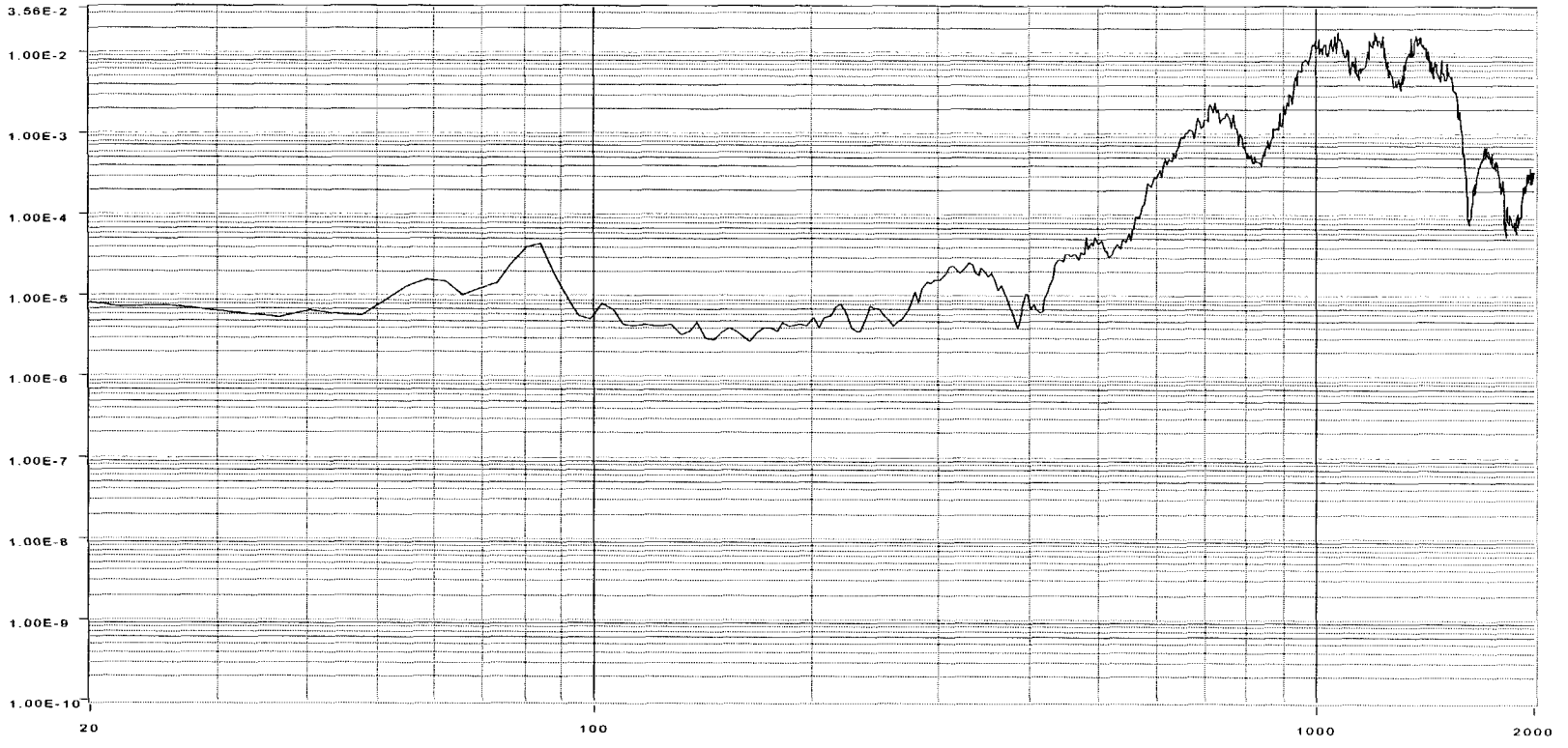
Channel #: 10 **Node Number:** 0010

Channel Label: A6 X

Channel Description:

Start Time: 27.00

RMS= 2.472E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

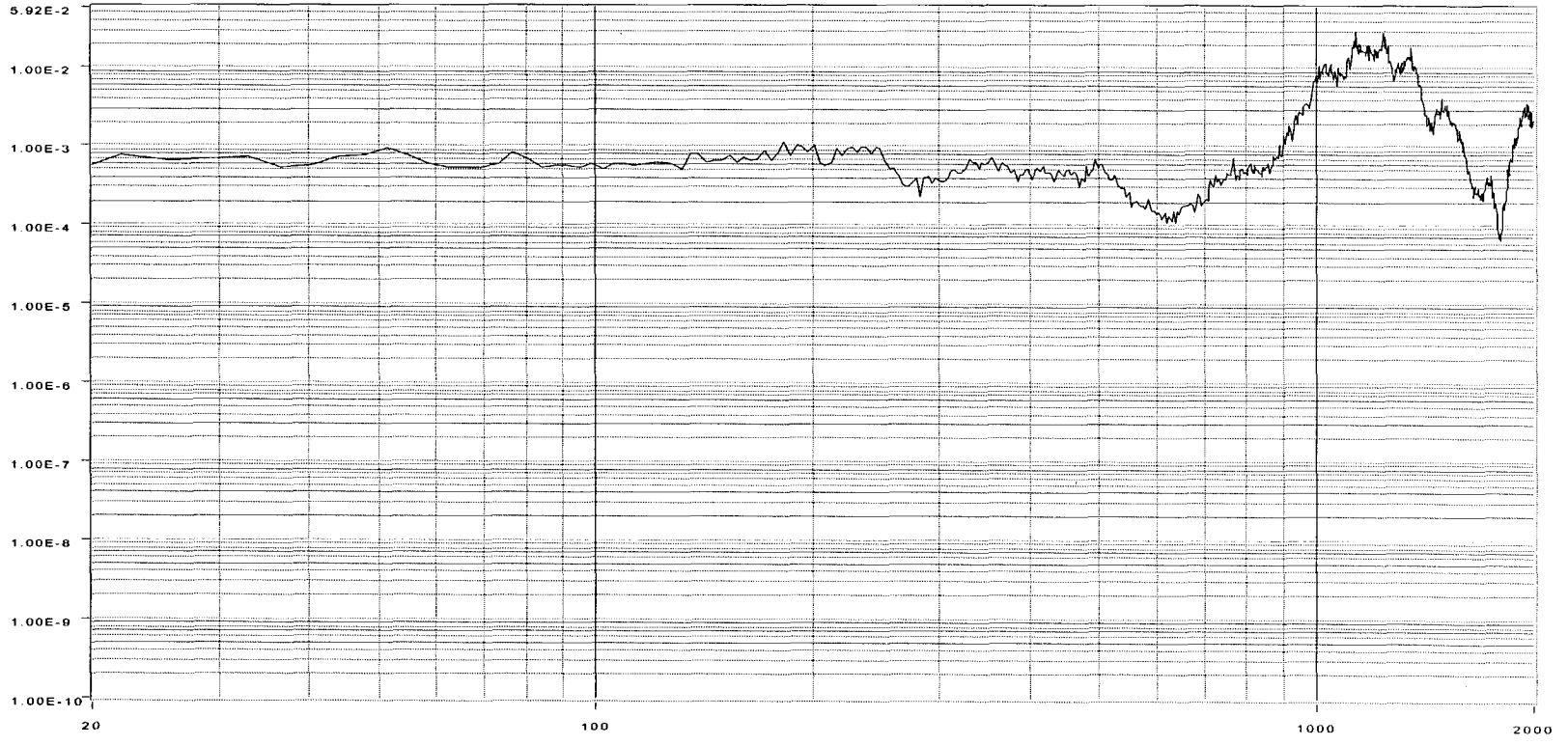
Channel #: 11 **Node Number:** 0011

Channel Label: A6 Y

Channel Description:

Start Time: 27.00

RMS= 2.580E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

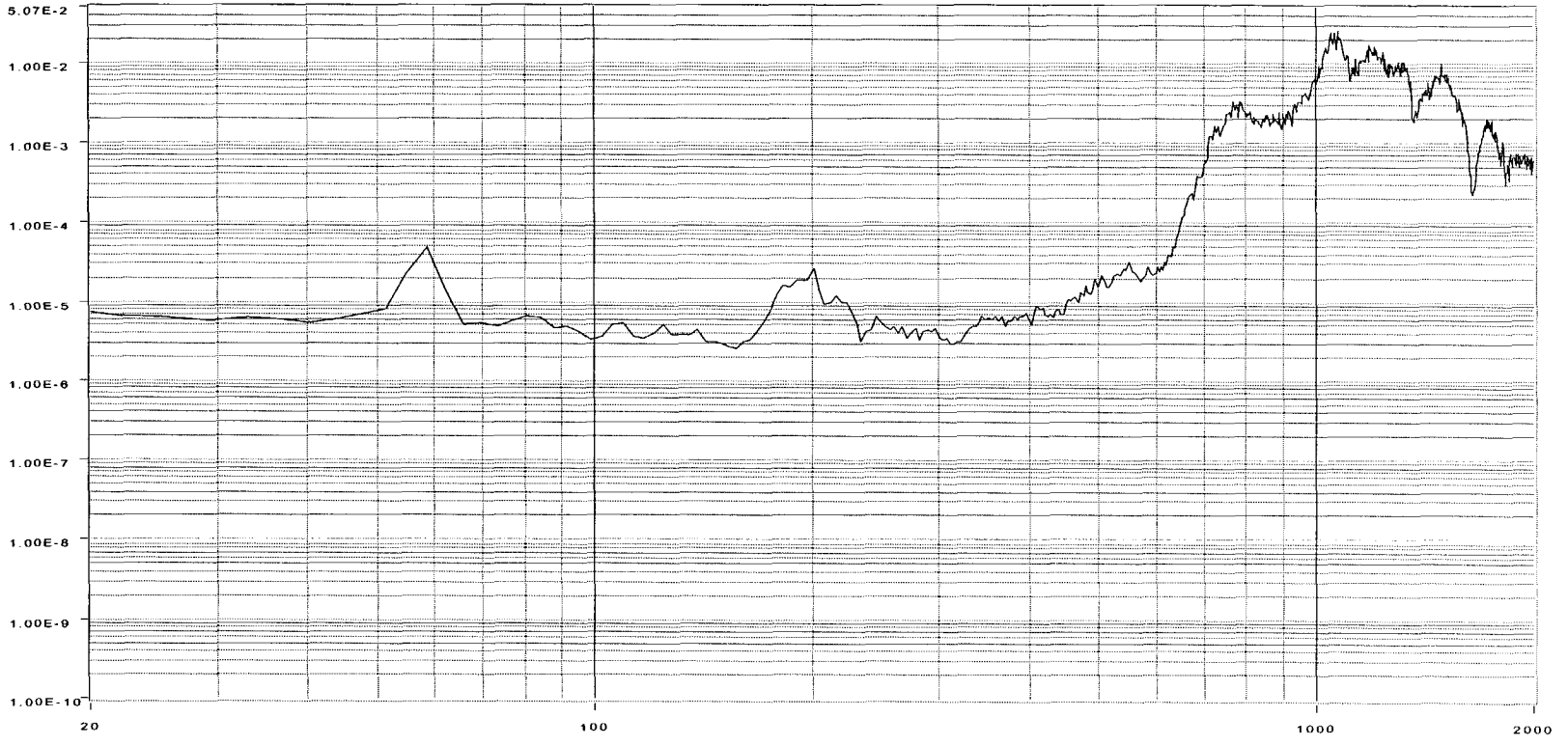
Channel #: 12 **Node Number:** 0012

Channel Label: A6 Z

Channel Description:

Start Time: 27.00

RMS= 2.493E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

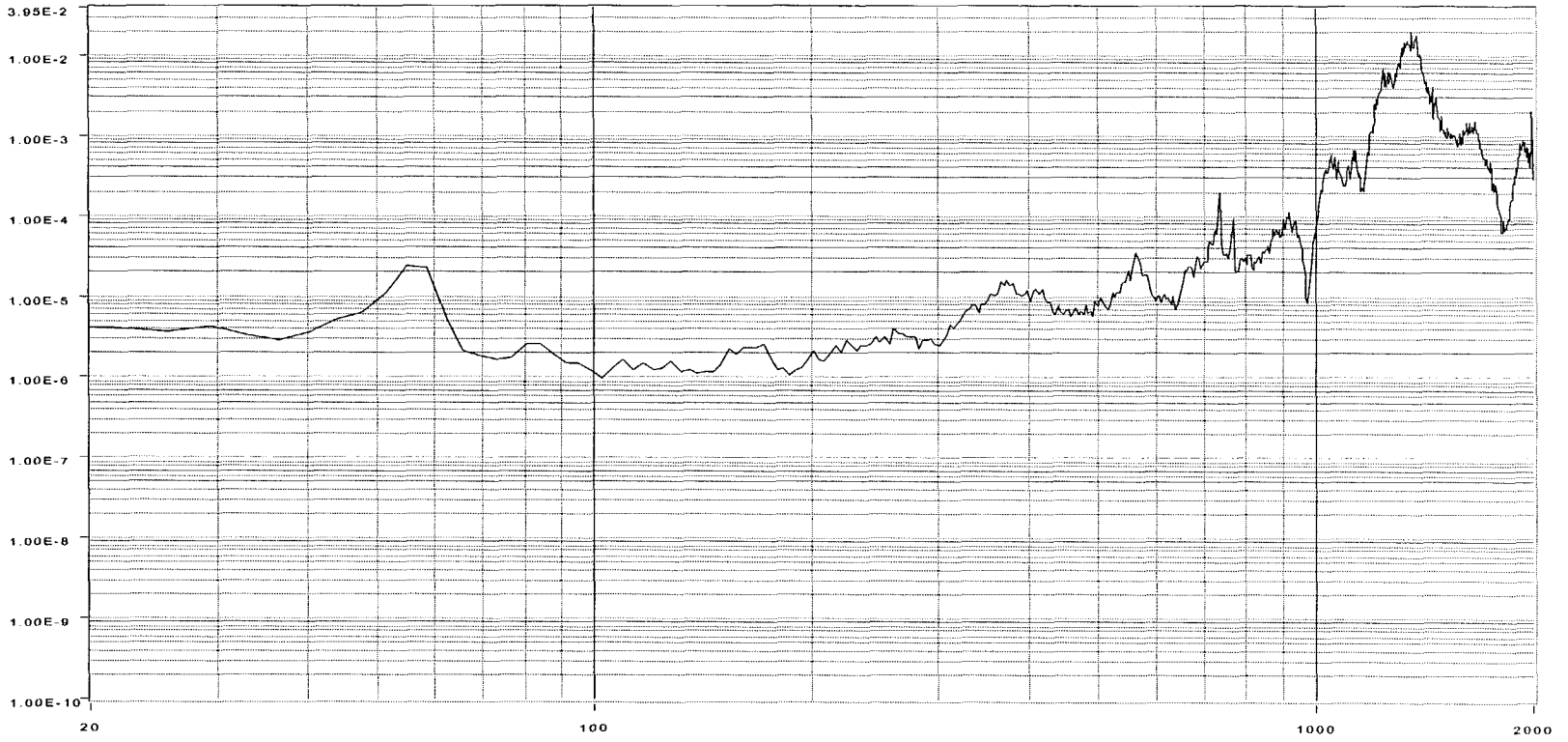
Channel #: 17 **Node Number:** 0017

Channel Label: A7 X

Channel Description:

Start Time: 27.00

RMS= 1.570E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

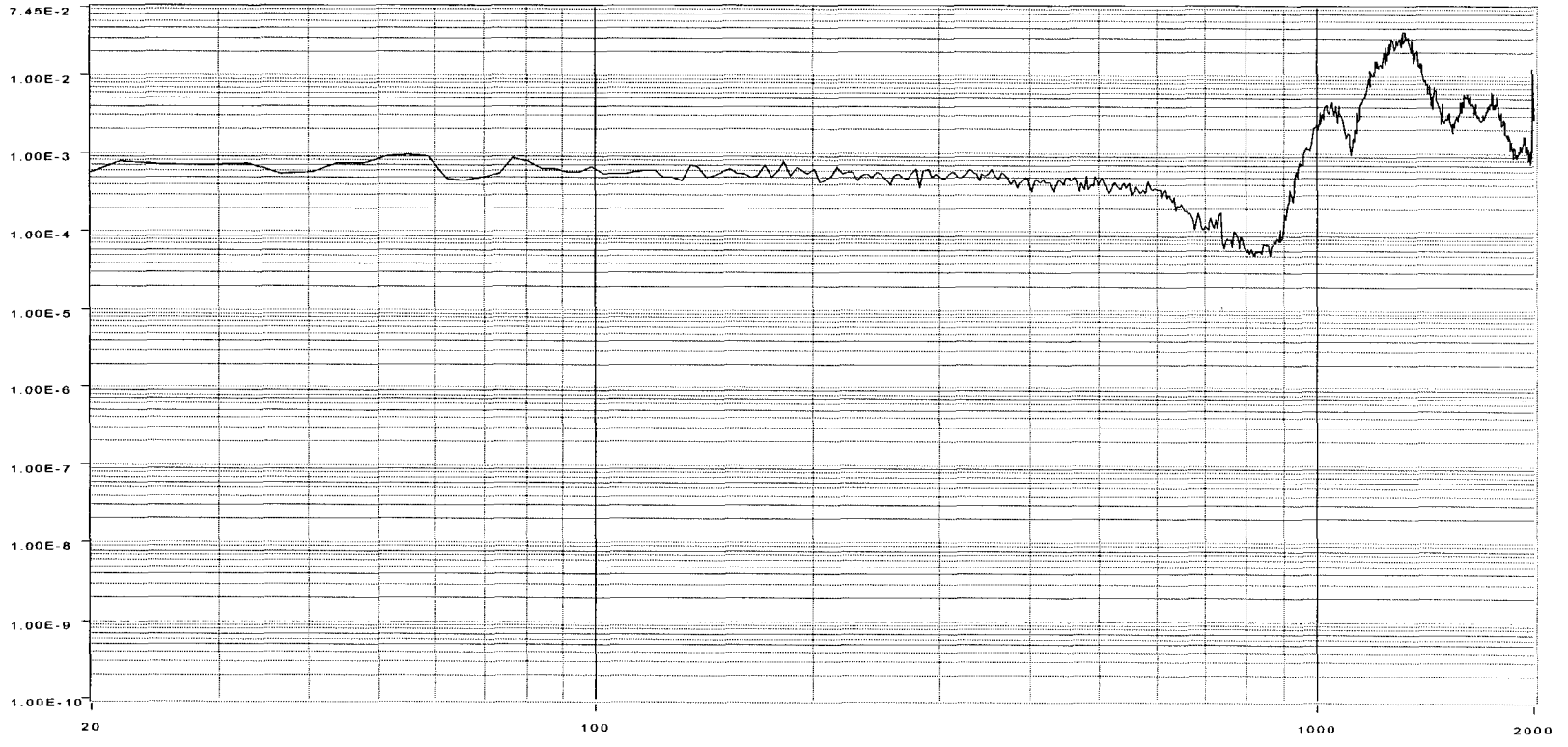
Channel #: 18 **Node Number:** 0018

Channel Label: A7 Y

Channel Description:

Start Time: 27.00

RMS= 2.724E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

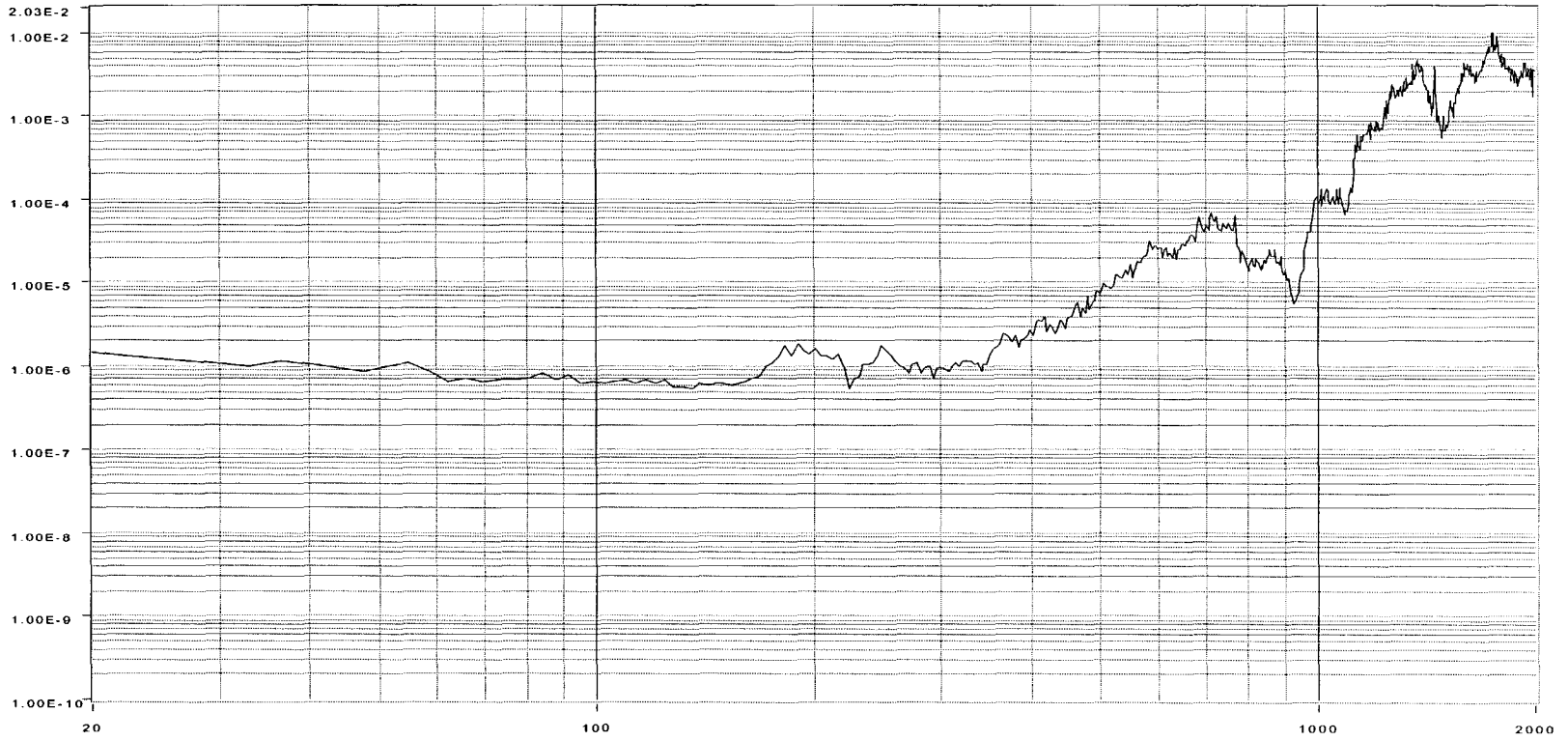
Channel #: 19 **Node Number:** 0019

Channel Label: A7 Z

Channel Description:

Start Time: 27.00

RMS= 1.580E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

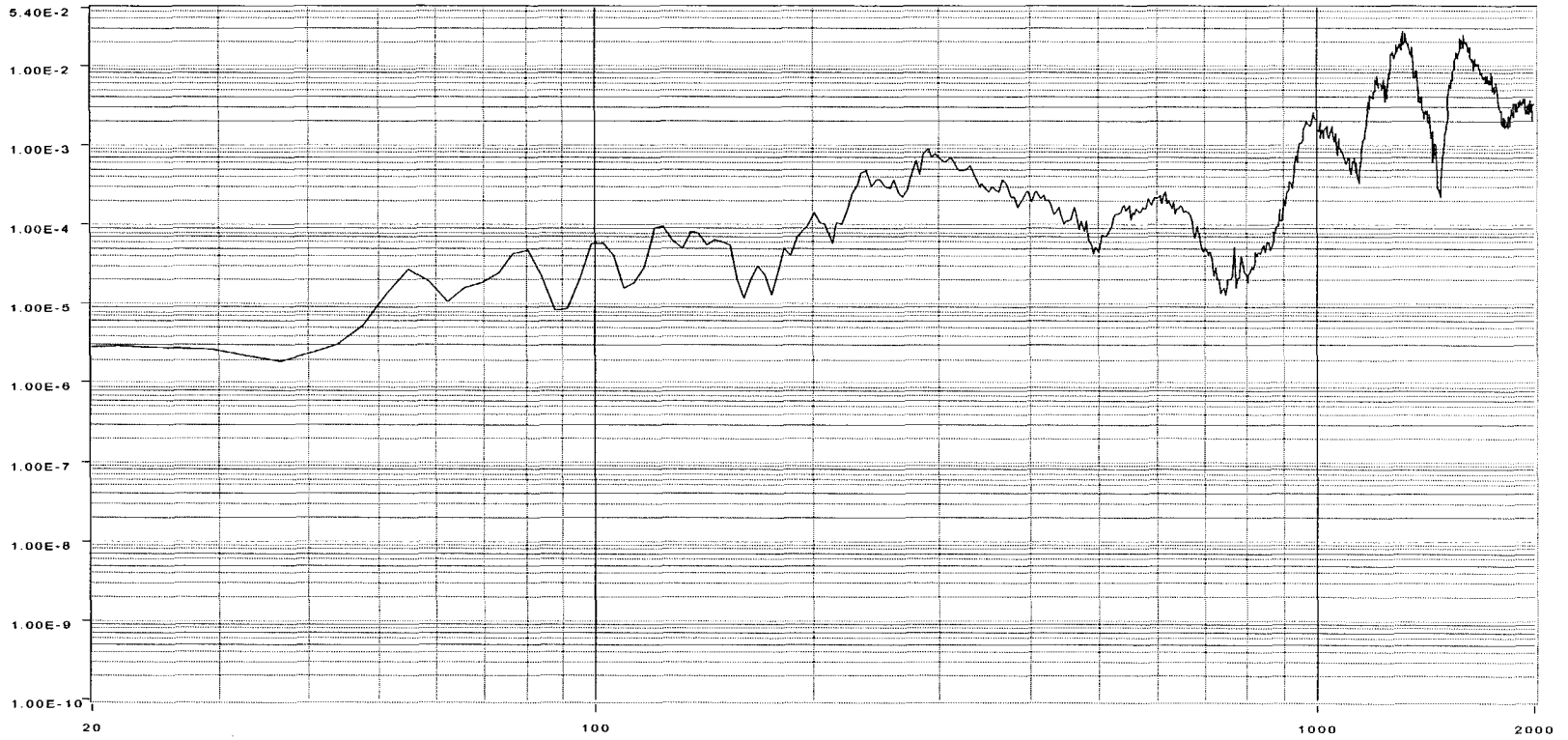
Channel #: 20 **Node Number:** 0020

Channel Label: A8 X

Channel Description:

Start Time: 27.00

RMS= 2.478E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

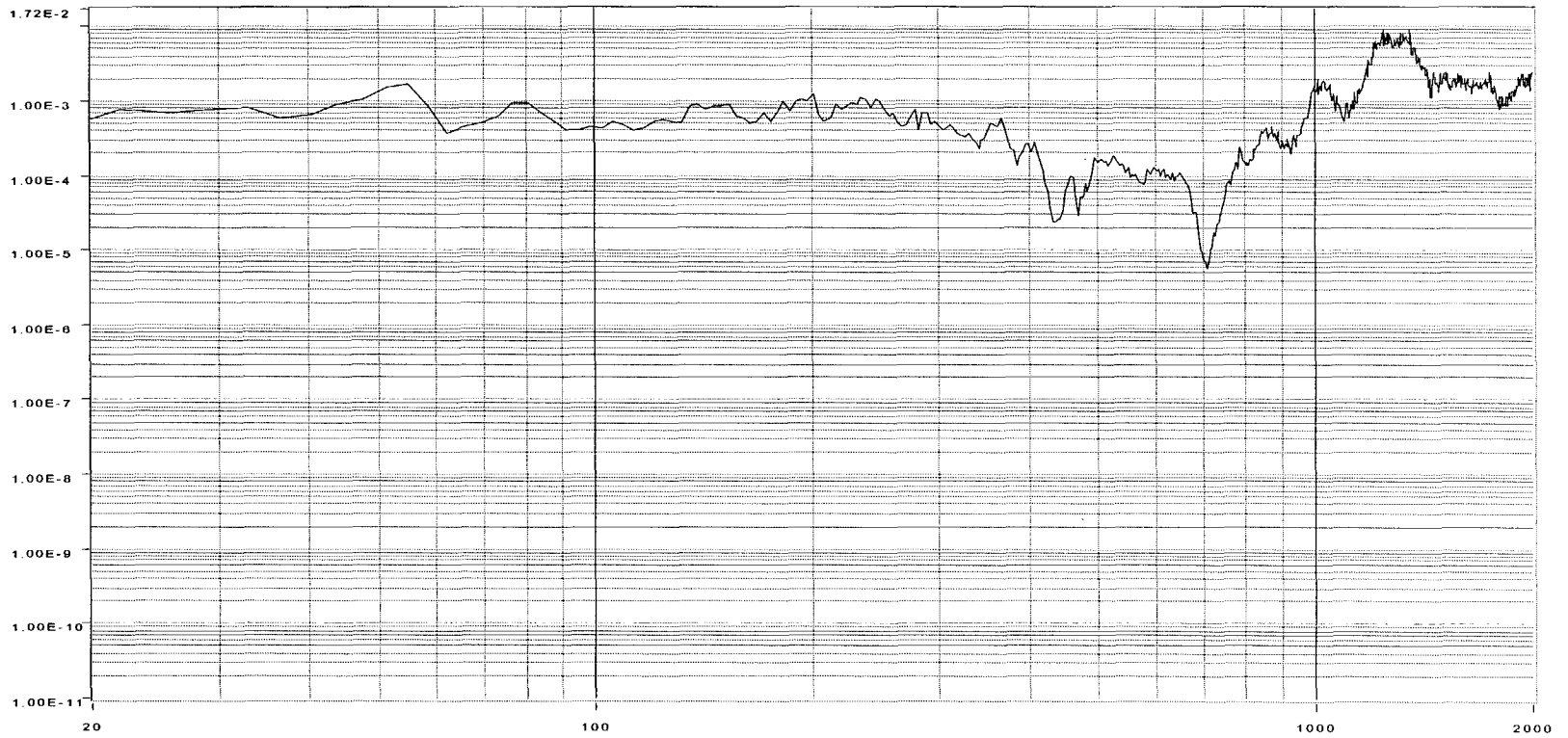
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 27.00

RMS= 1.670E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

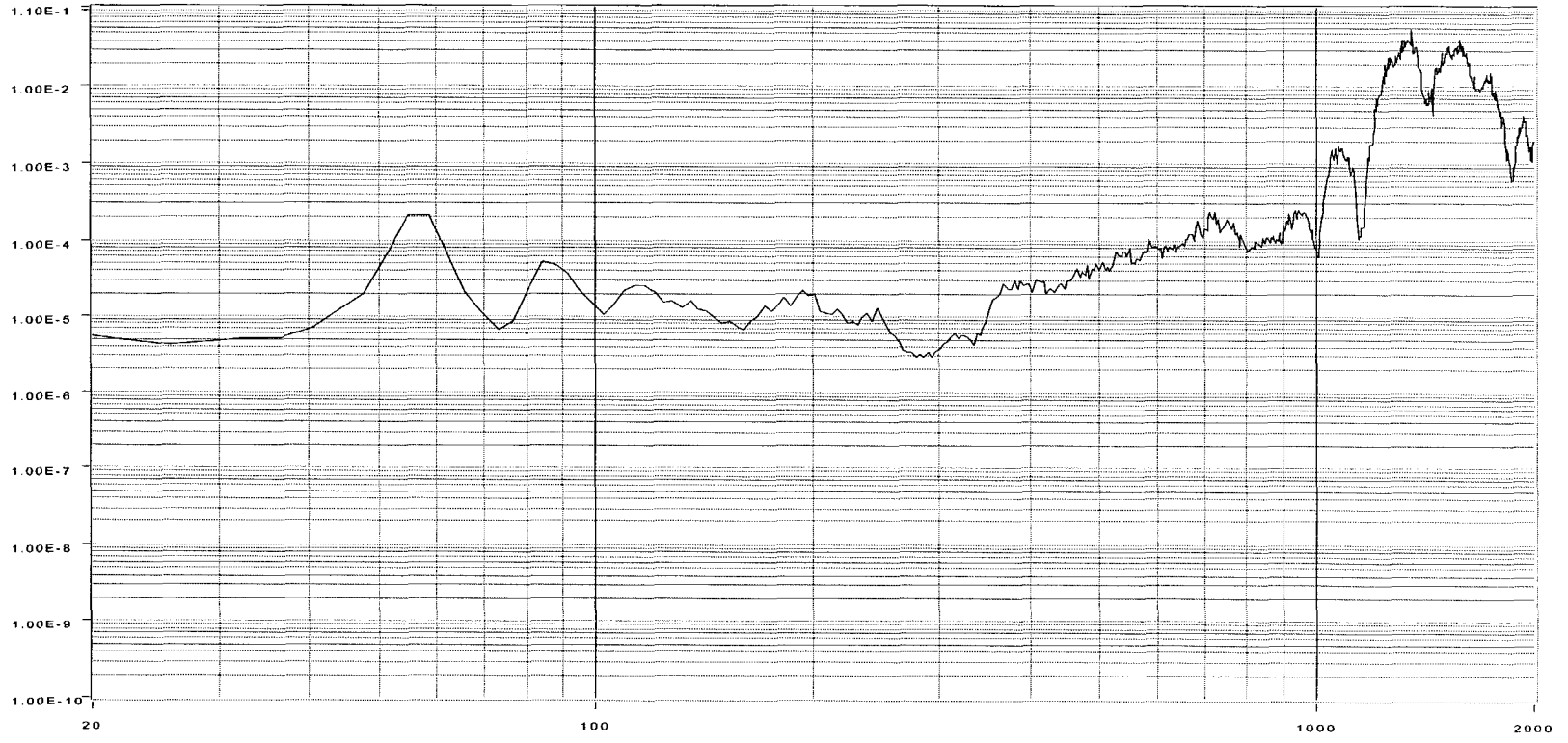
Channel #: 22 Node Number: 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 27.00

RMS= 3.436E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

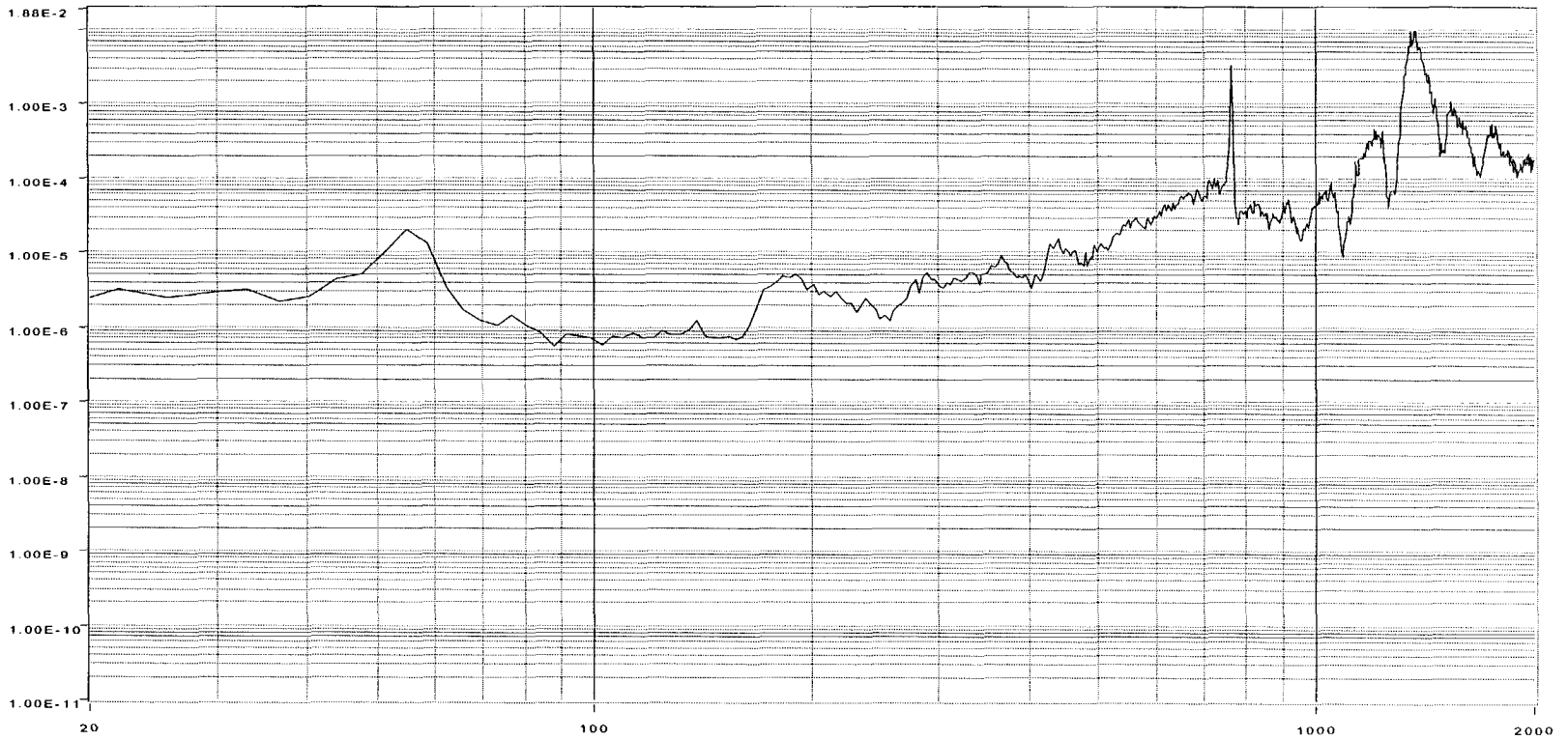
Channel #: 23 Node Number: 0023

Channel Label: A9 X

Channel Description:

Start Time: 27.00

RMS= 9.304E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

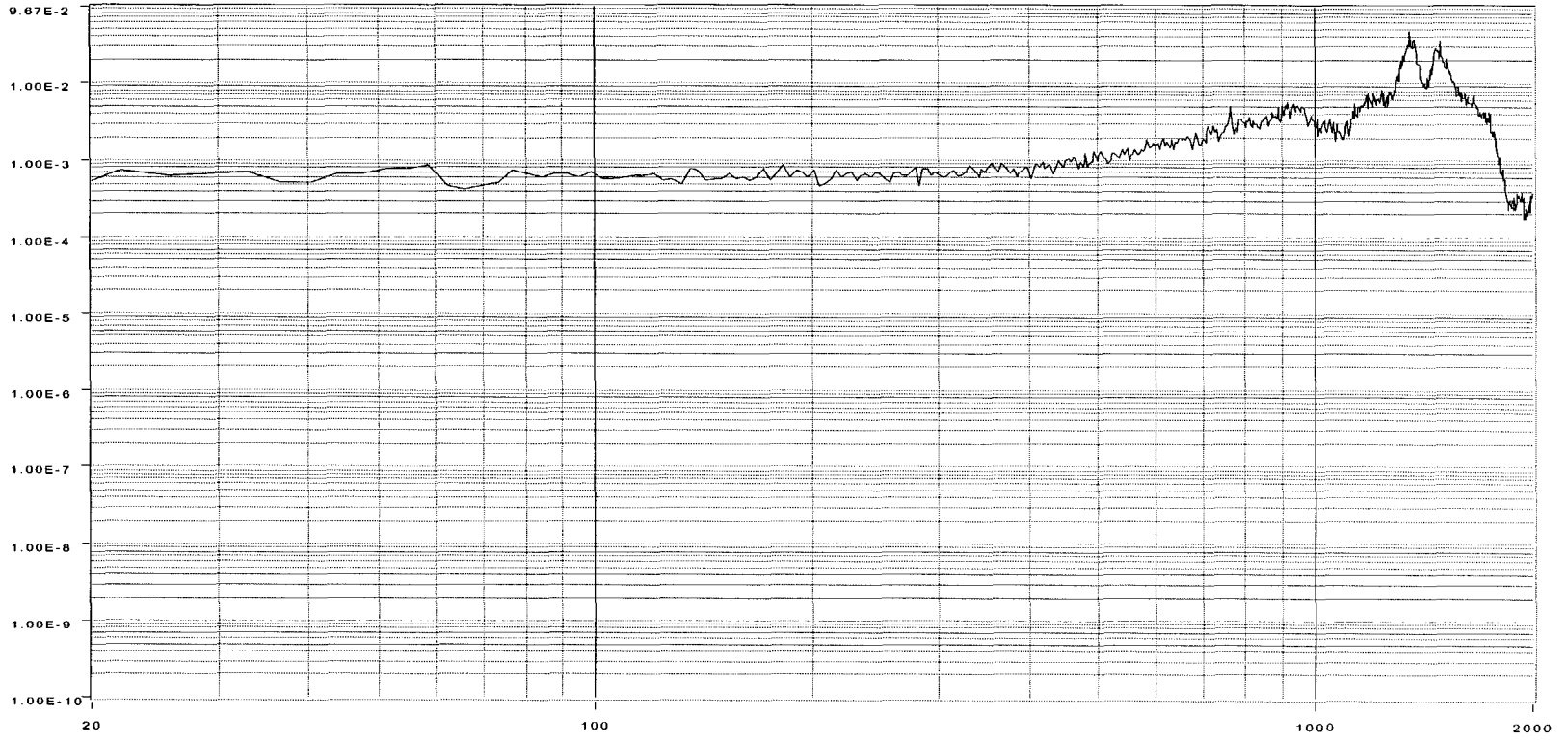
Channel #: 24 **Node Number:** 0024

Channel Label: A9 Y

Channel Description:

Start Time: 27.00

RMS= 3.045E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

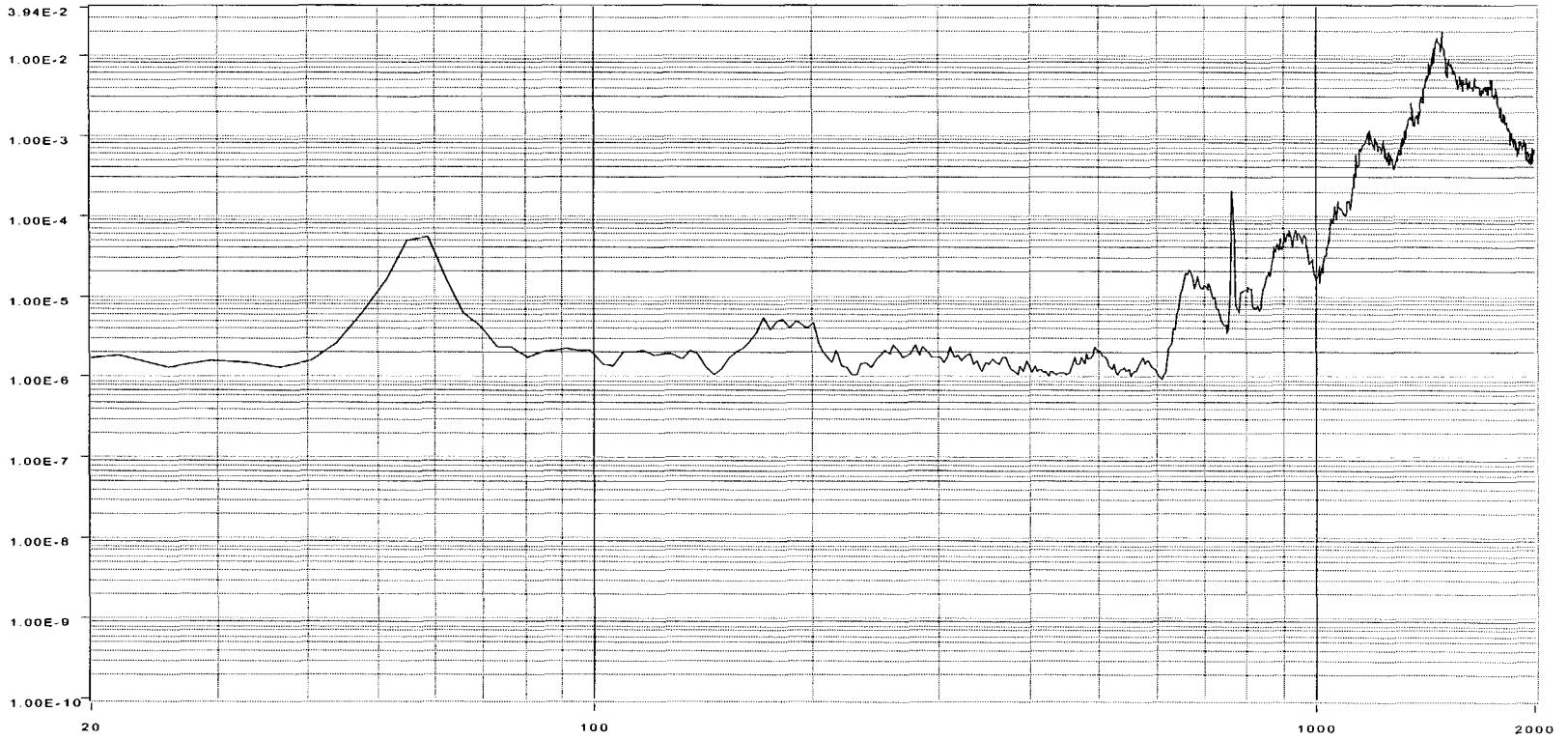
Channel #: 25 Node Number: 0025

Channel Label: A9 Z

Channel Description:

Start Time: 27.00

RMS= 1.664E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

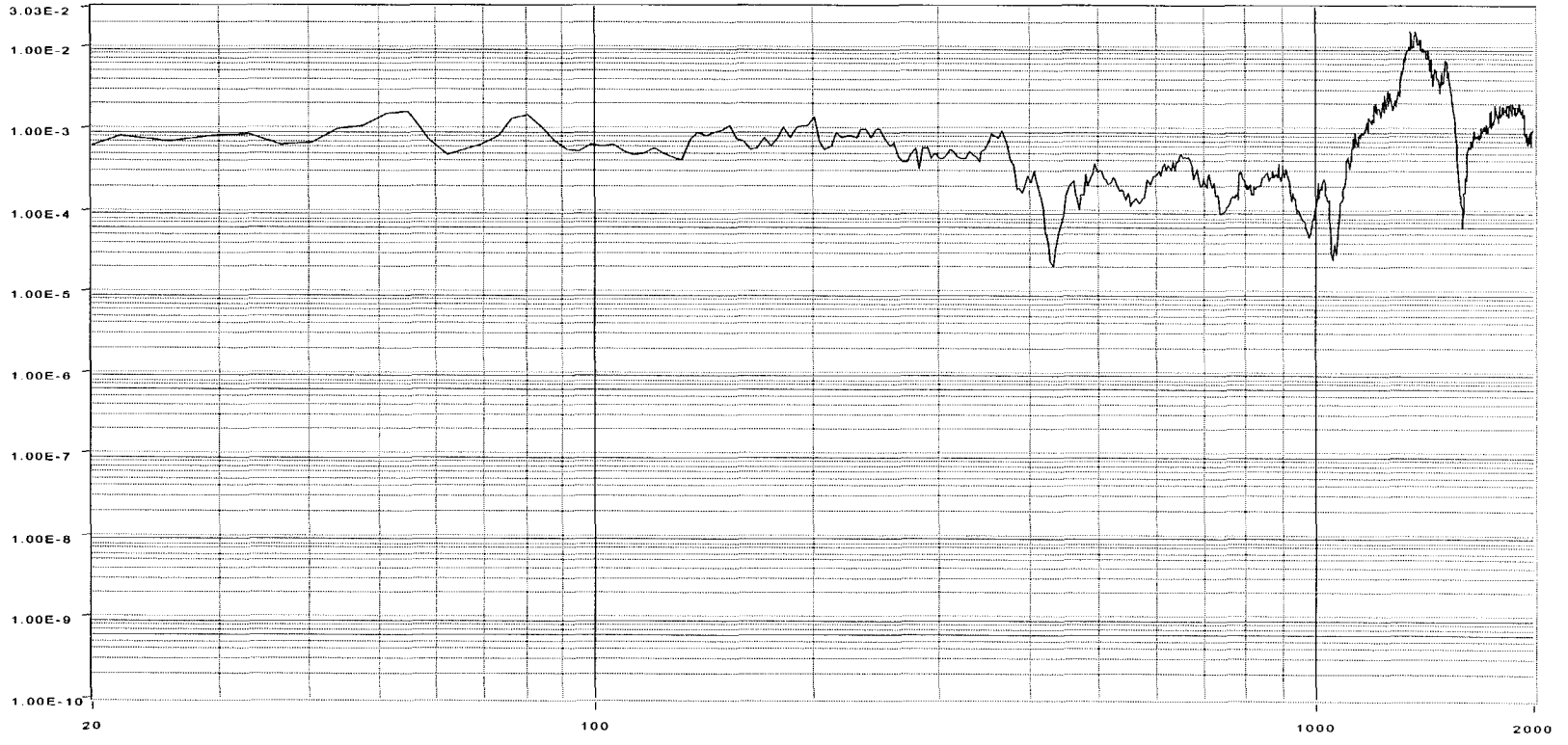
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 27.00

RMS= 1.692E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

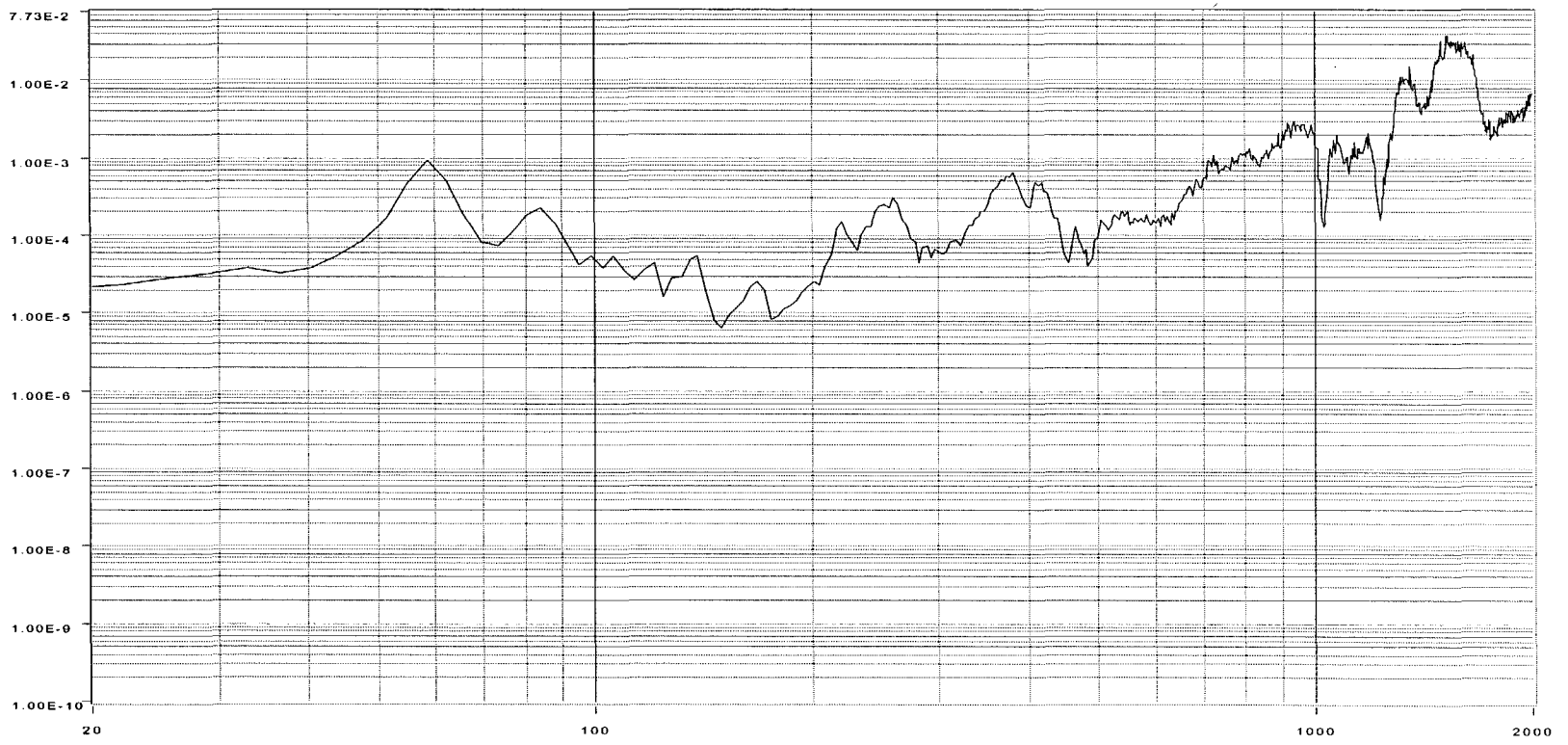
Channel #: 27 **Node Number:** 0027

Channel Label: A10 Y

Channel Description:

Start Time: 27.00

RMS= 2.884E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

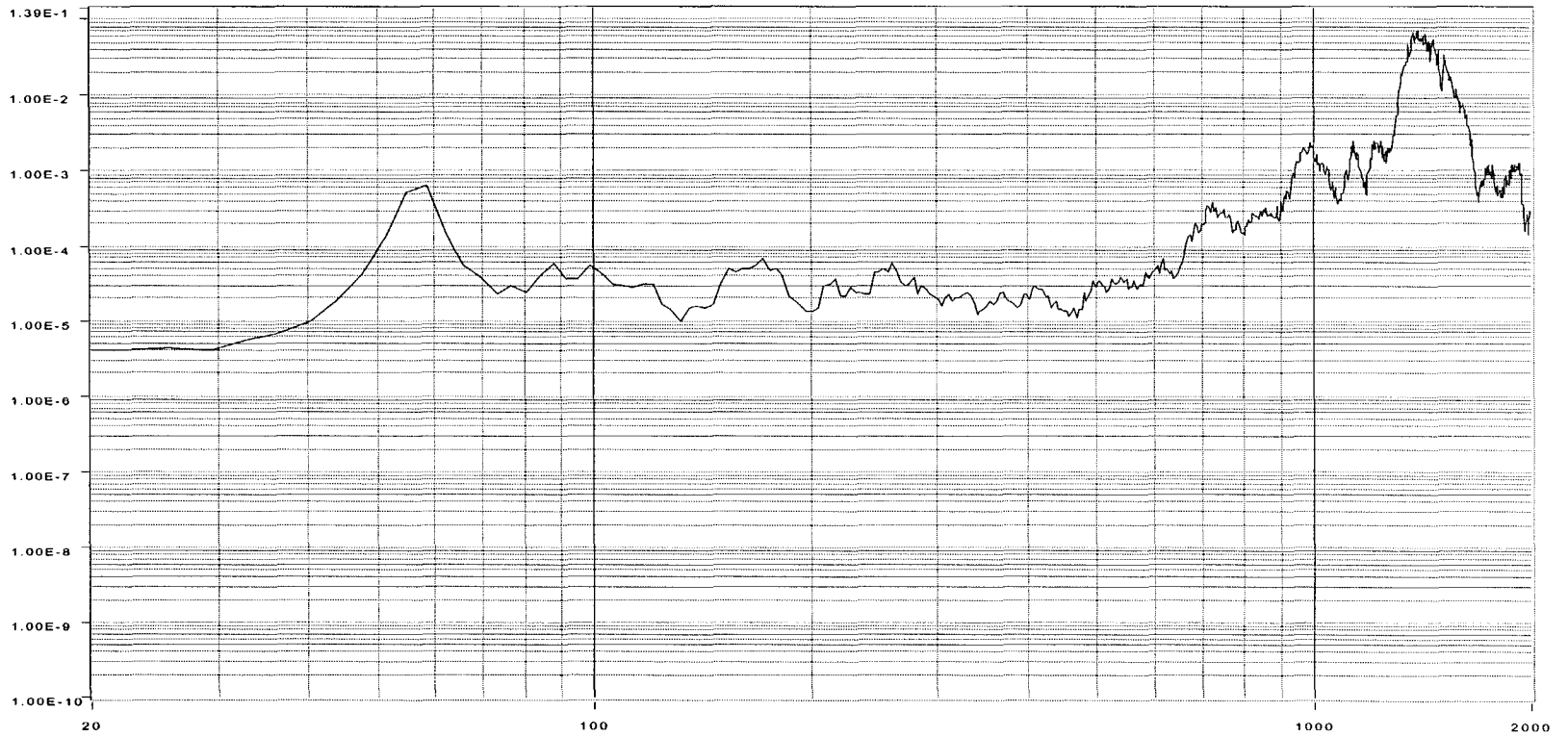
Channel #: 28 Node Number: 0028

Channel Label: A10 Z

Channel Description:

Start Time: 27.00

RMS= 3.259E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

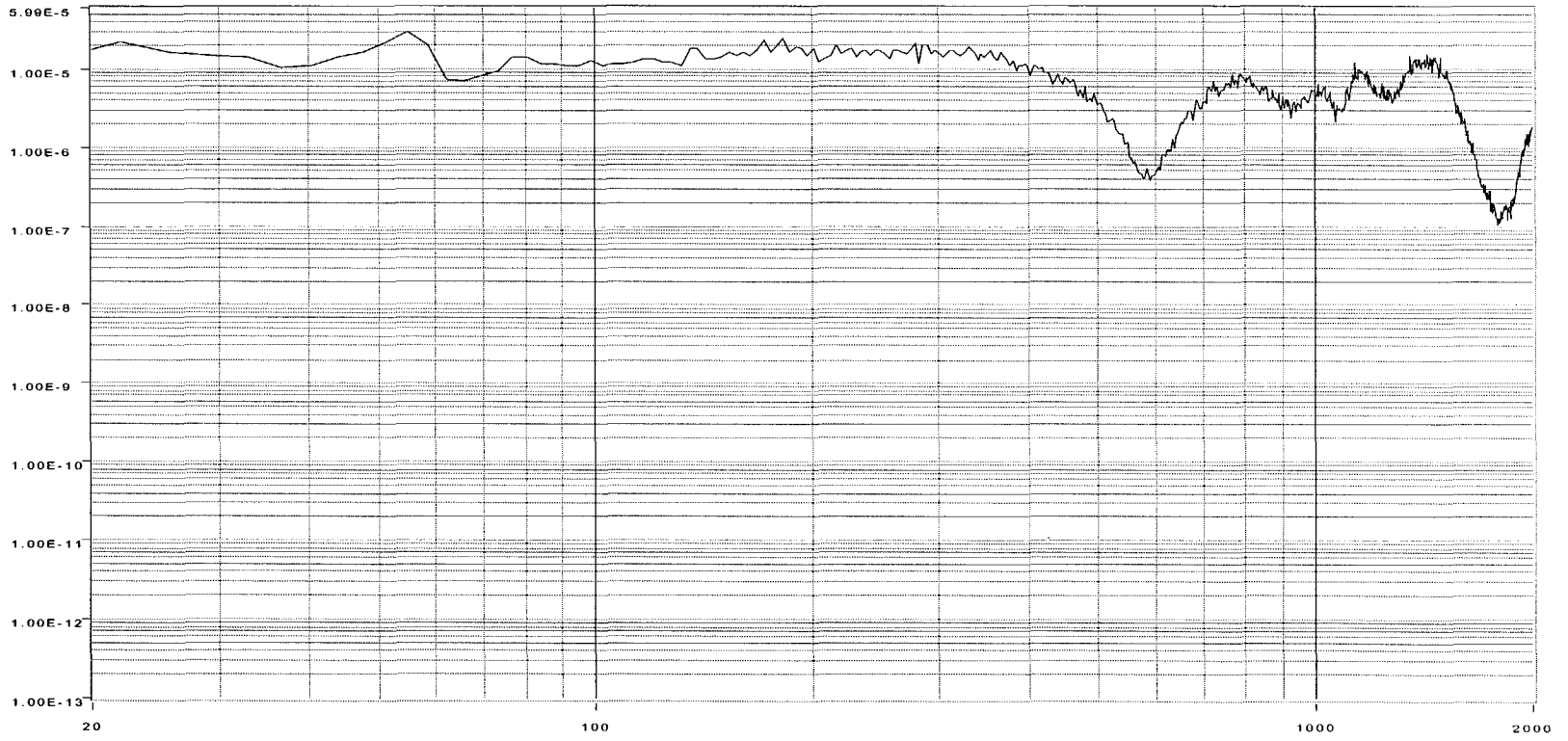
Channel #: 31 **Node Number:** 0031

Channel Label: DRIVE

Channel Description:

Start Time: 27.00

RMS= 1.130E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

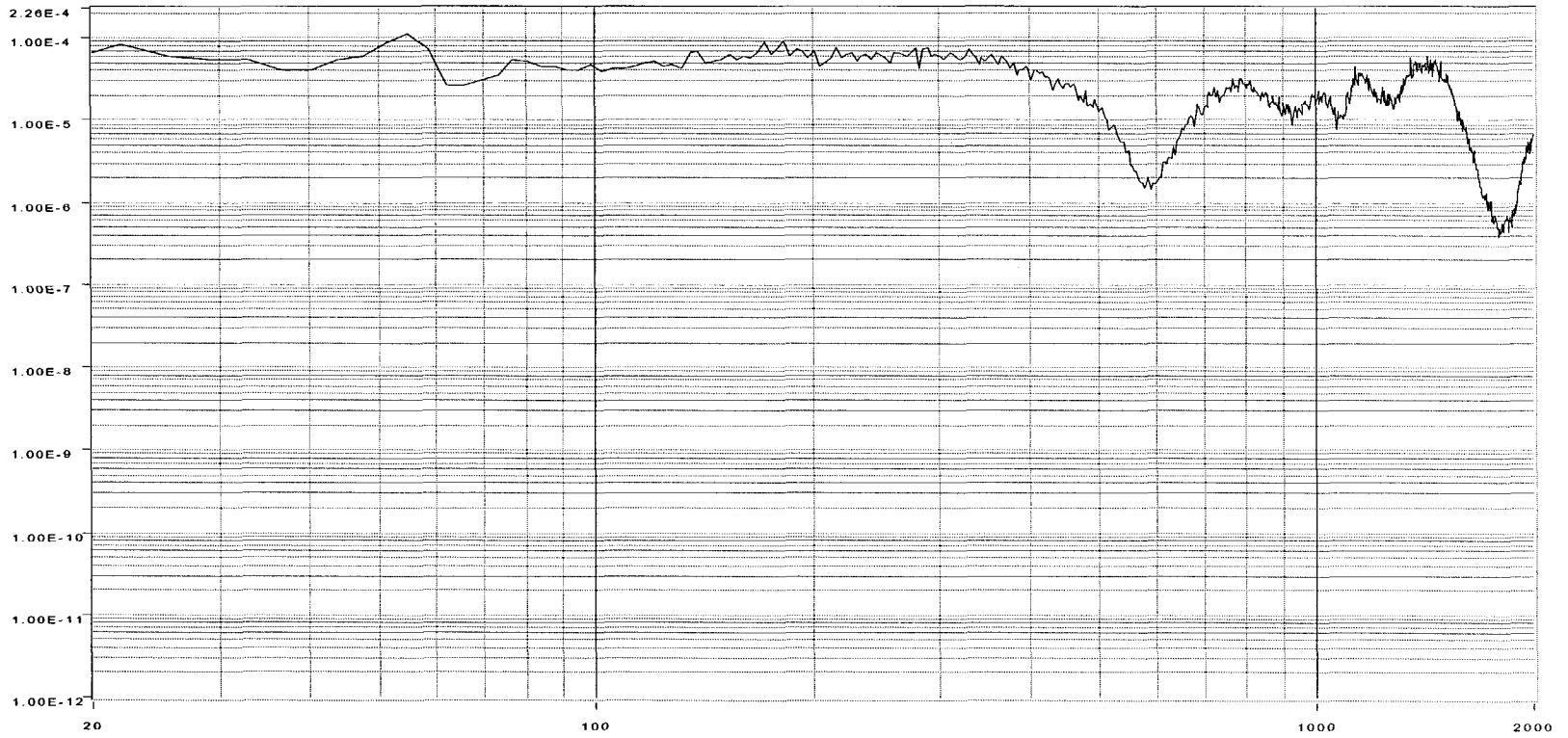
Channel #: 32 **Node Number:** 0032

Channel Label: COLA

Channel Description:

Start Time: 27.00

RMS= 2.192E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

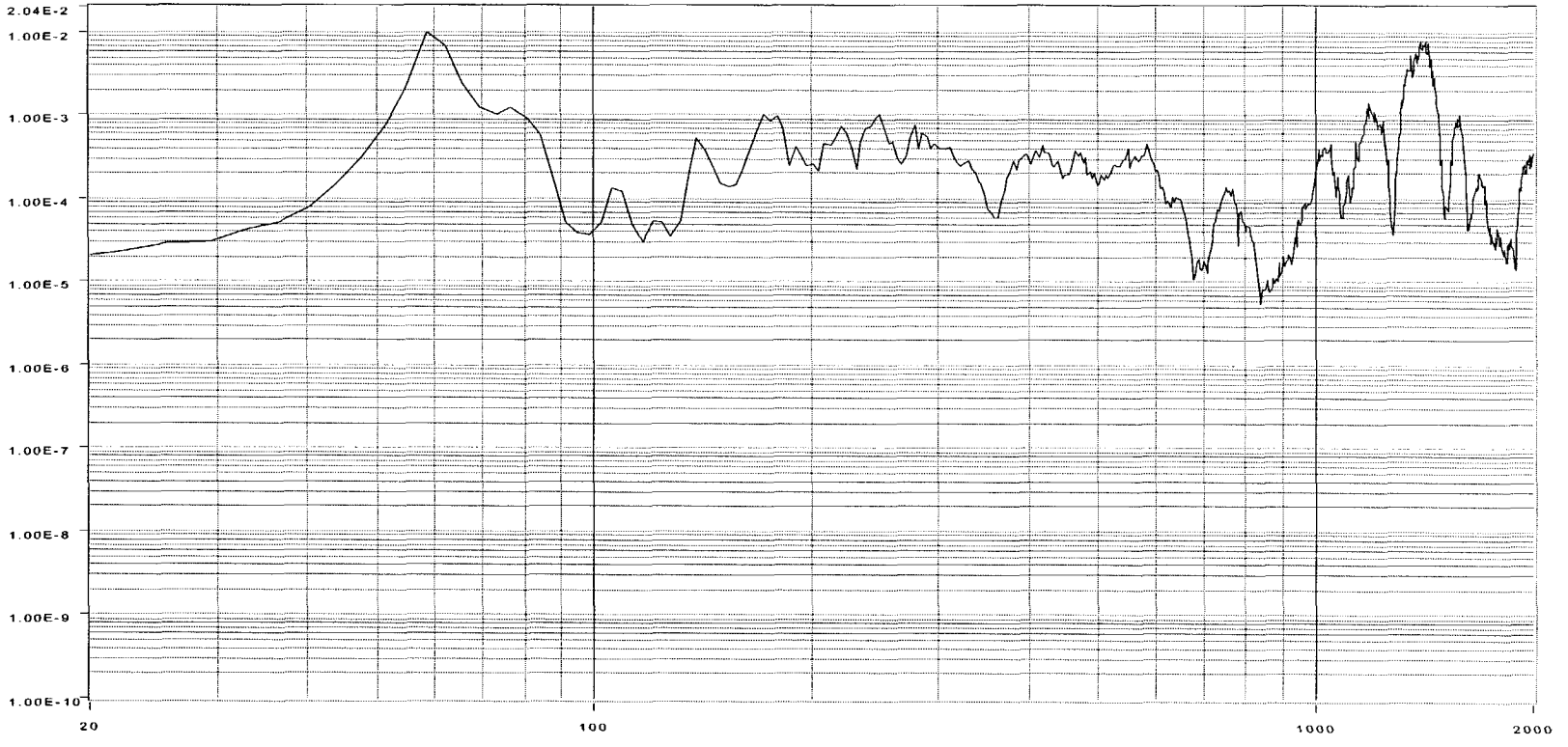
Channel #: 33 Node Number: 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 27.00

RMS= 1.105E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

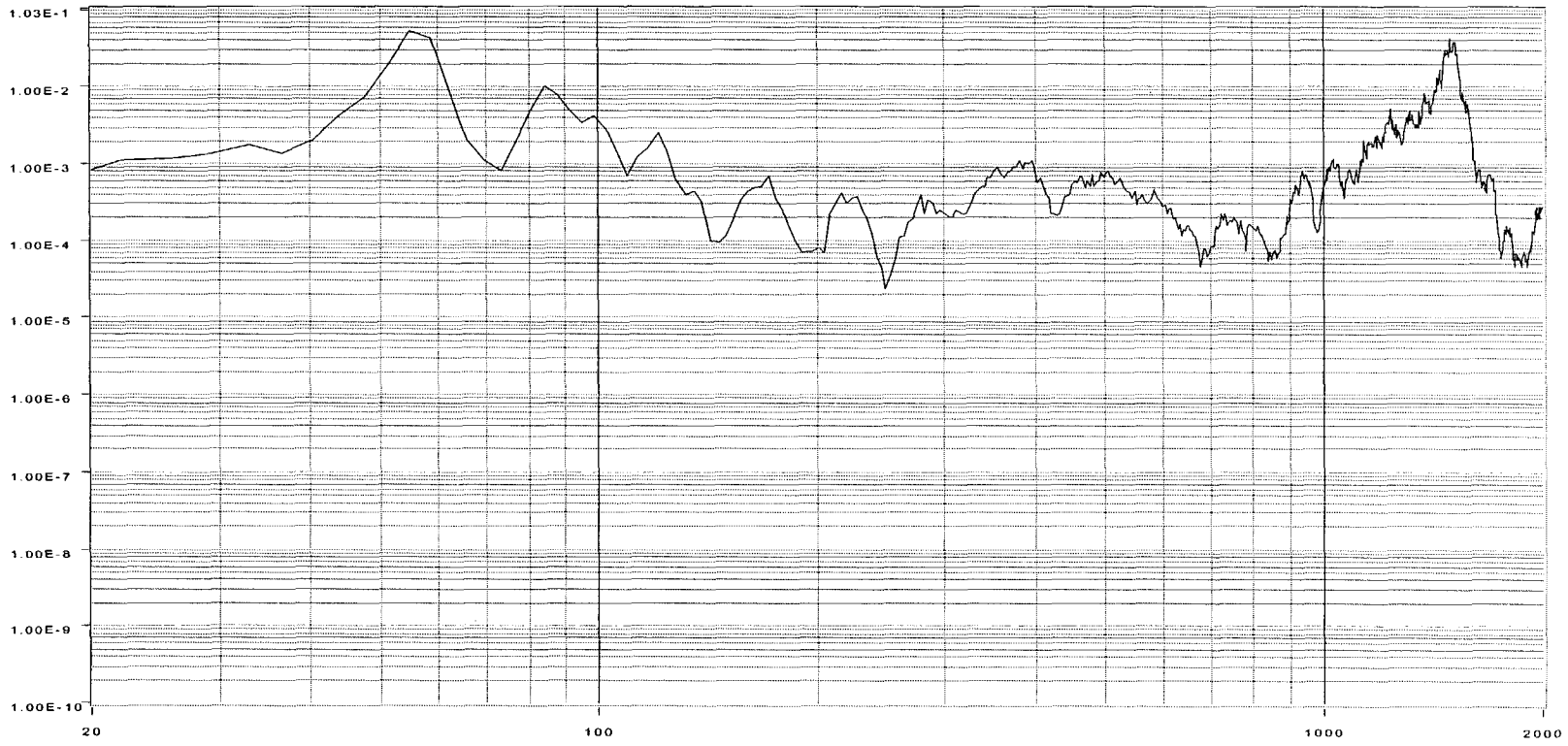
Channel #: 34 Node Number: 0034

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 27.00

RMS= 2.307E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

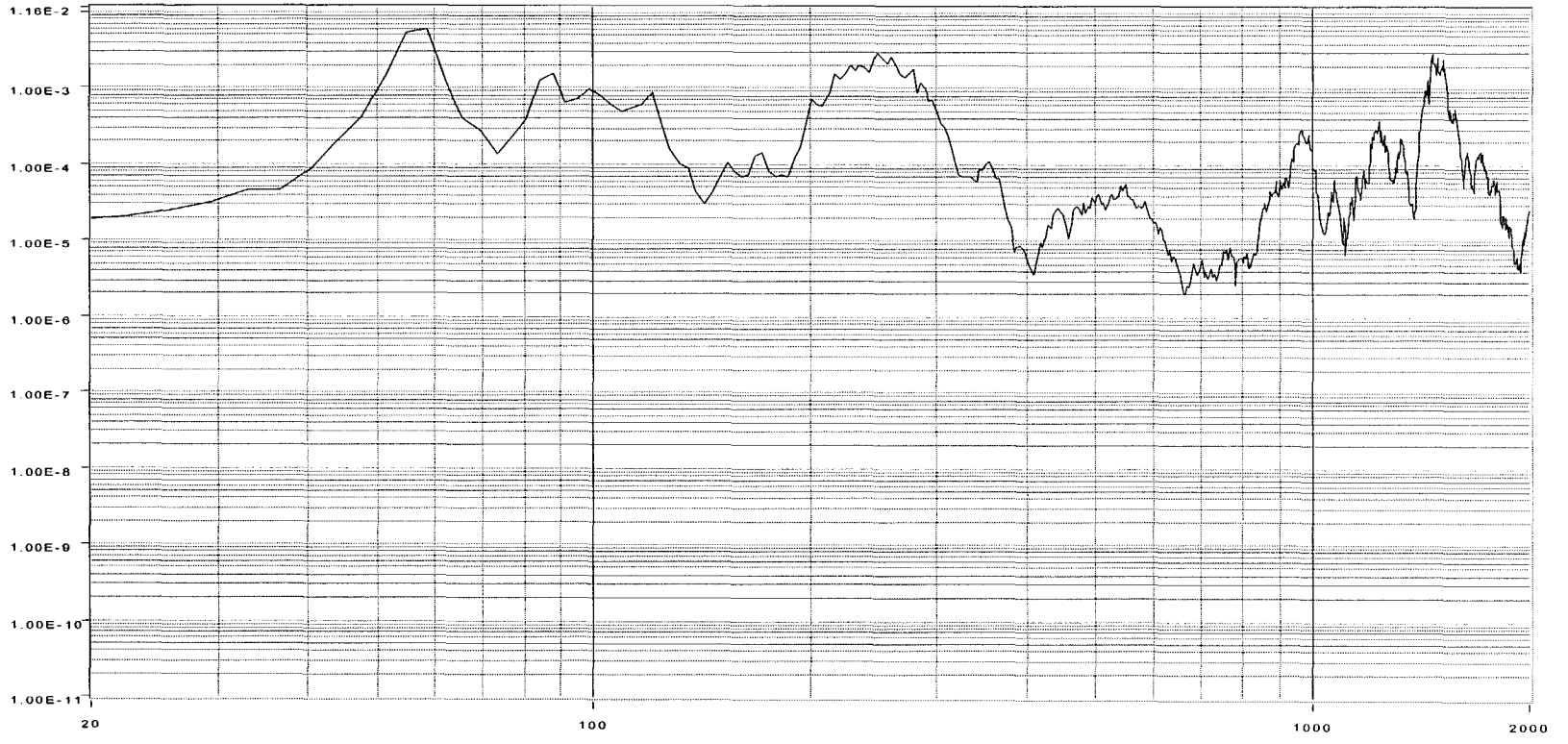
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 27.00

RMS= 7.520E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

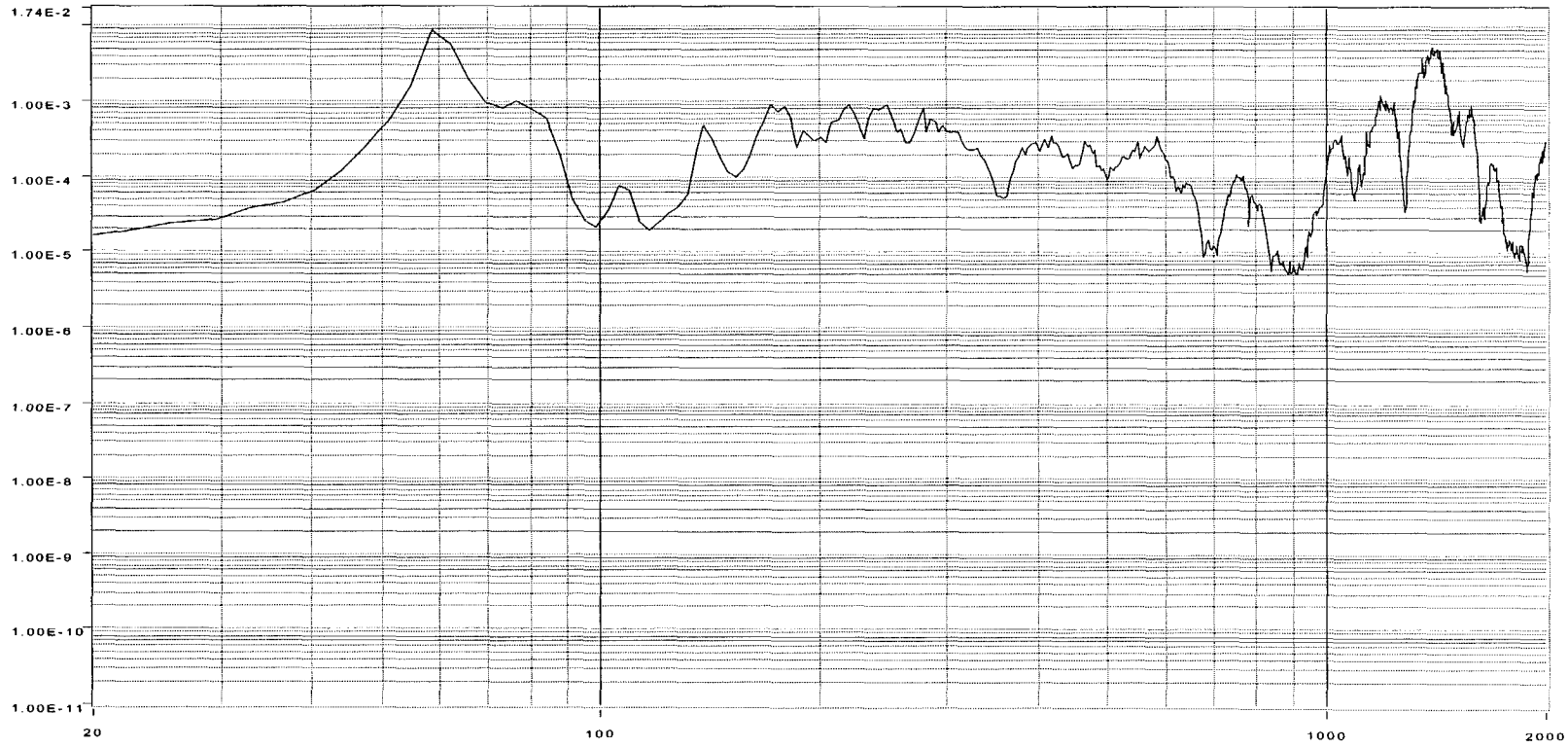
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 27.00

RMS= 9.726E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

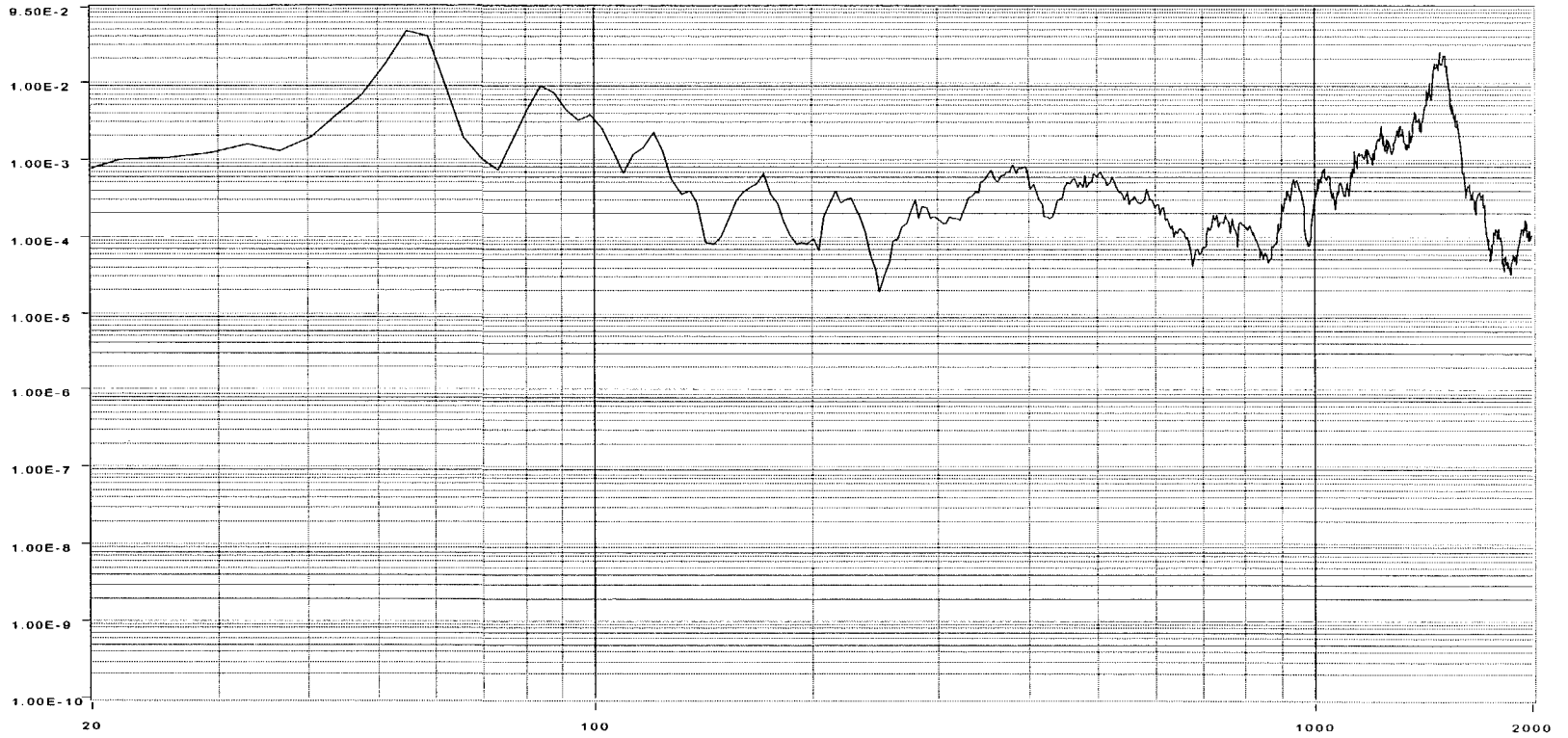
Channel #: 37 Node Number: 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 27.00

RMS= 1.836E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

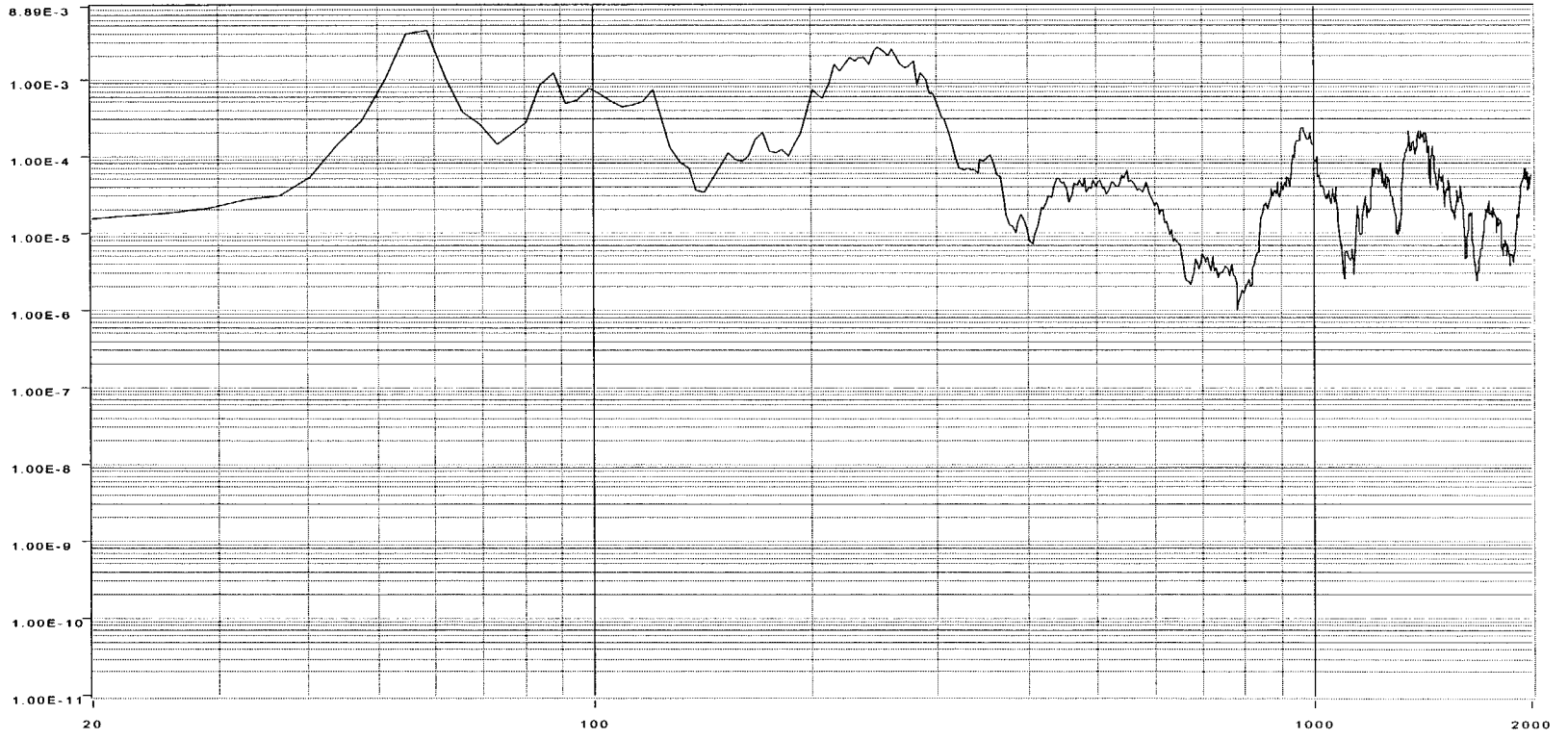
Channel #: 38 **Node Number:** 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 27.00

RMS= 5.499E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

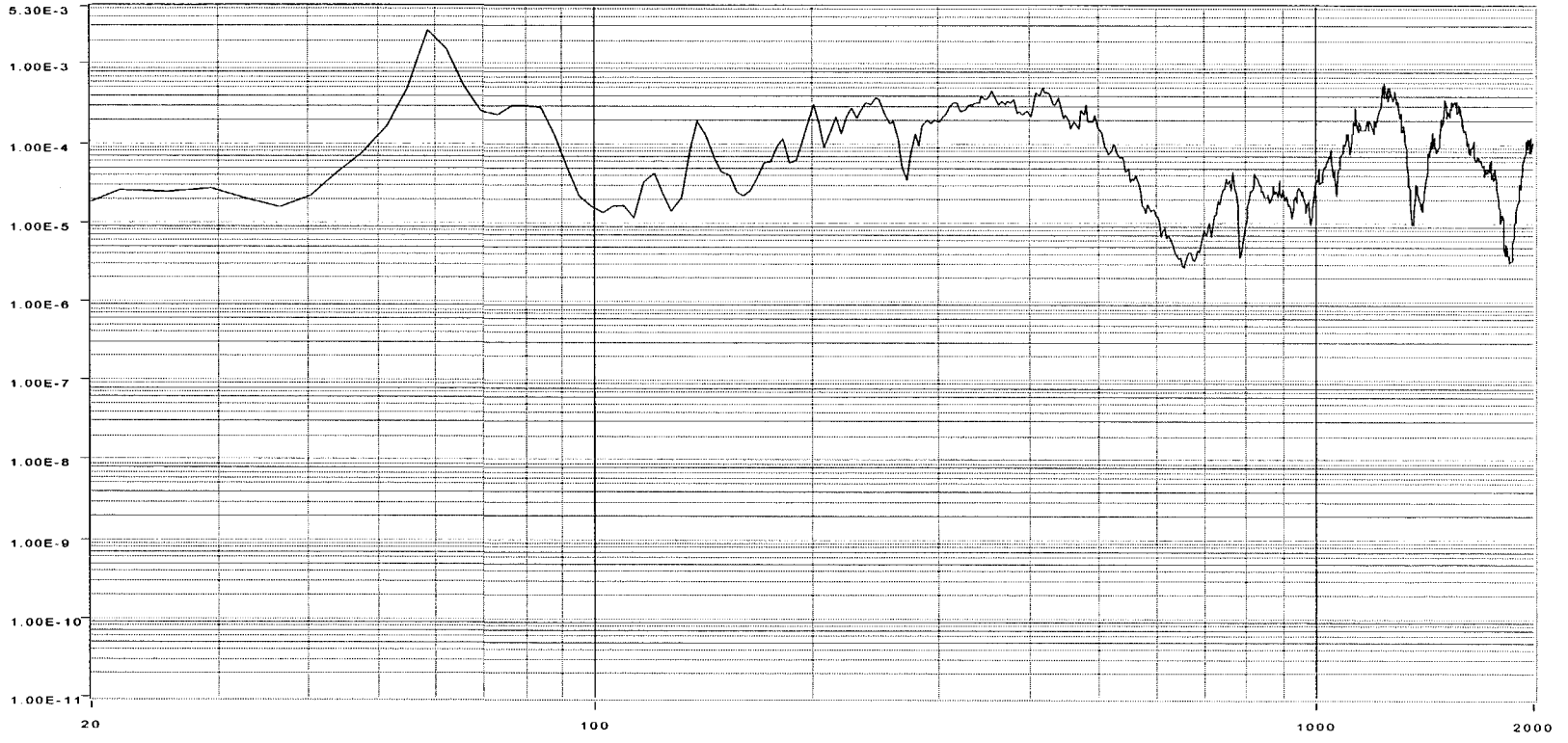
Channel #: 39 **Node Number:** 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 27.00

RMS= 4.917E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:06 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

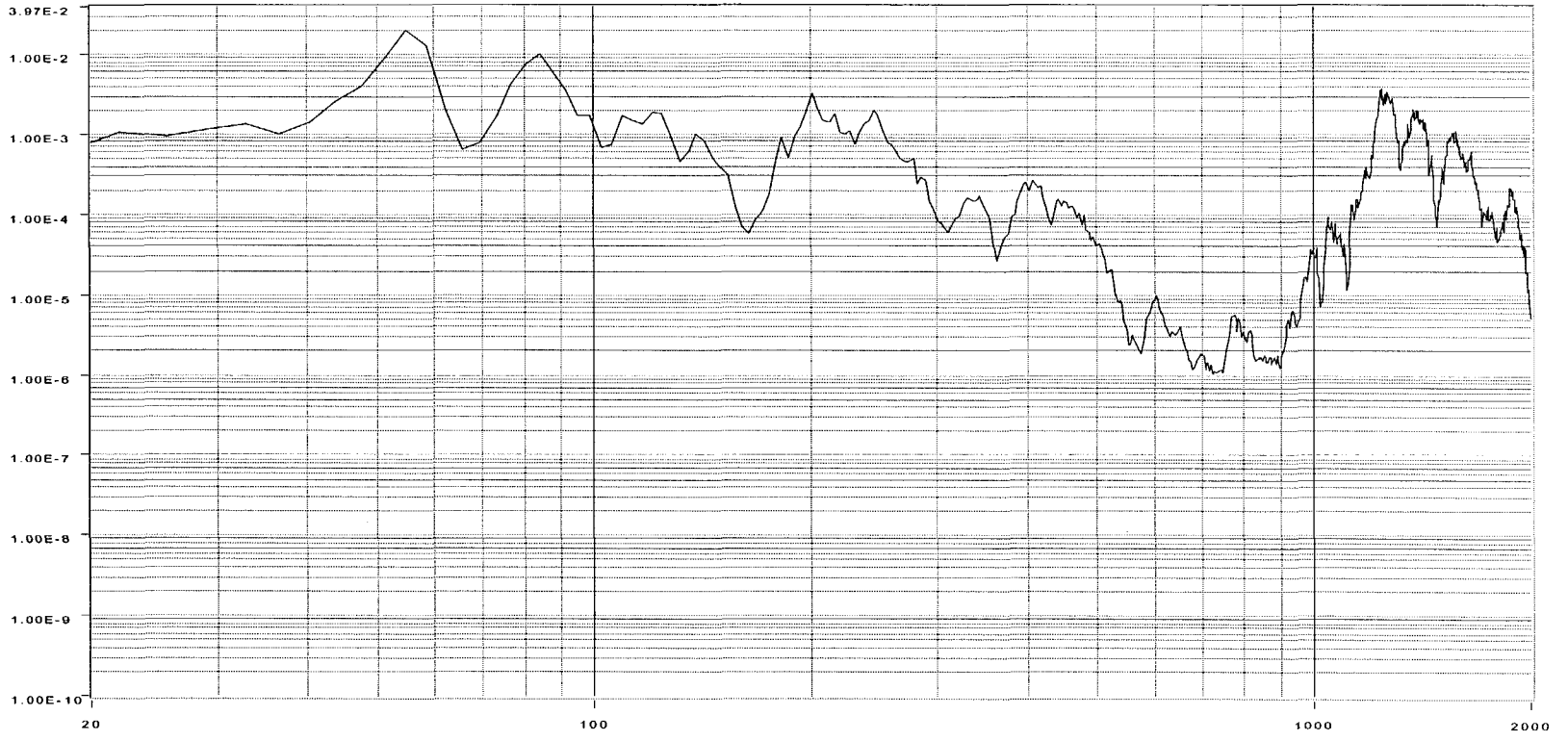
Channel #: 40 Node Number: 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 27.00

RMS= 1.048E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

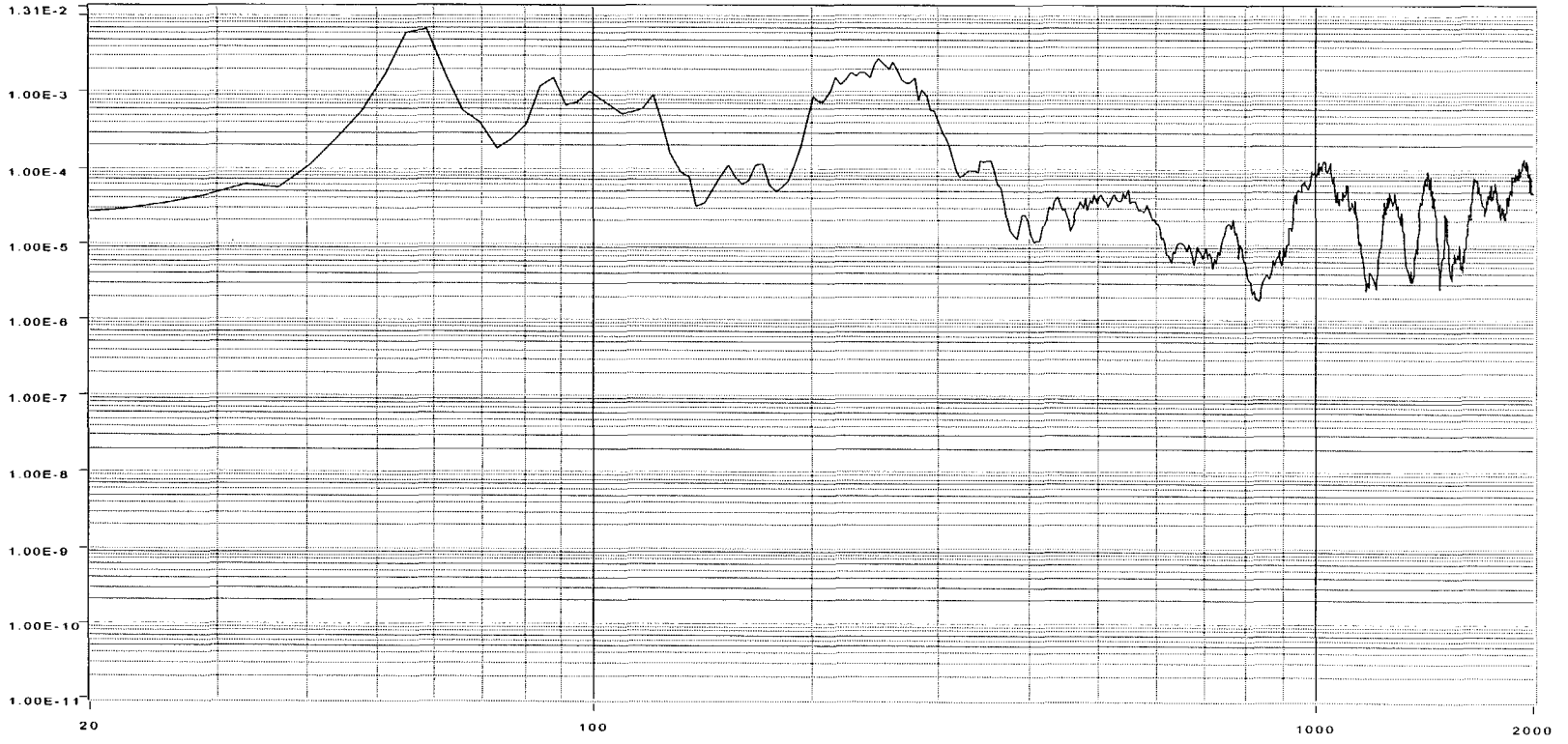
Channel #: 41 **Node Number:** 0041

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 27.00

RMS= 5.658E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

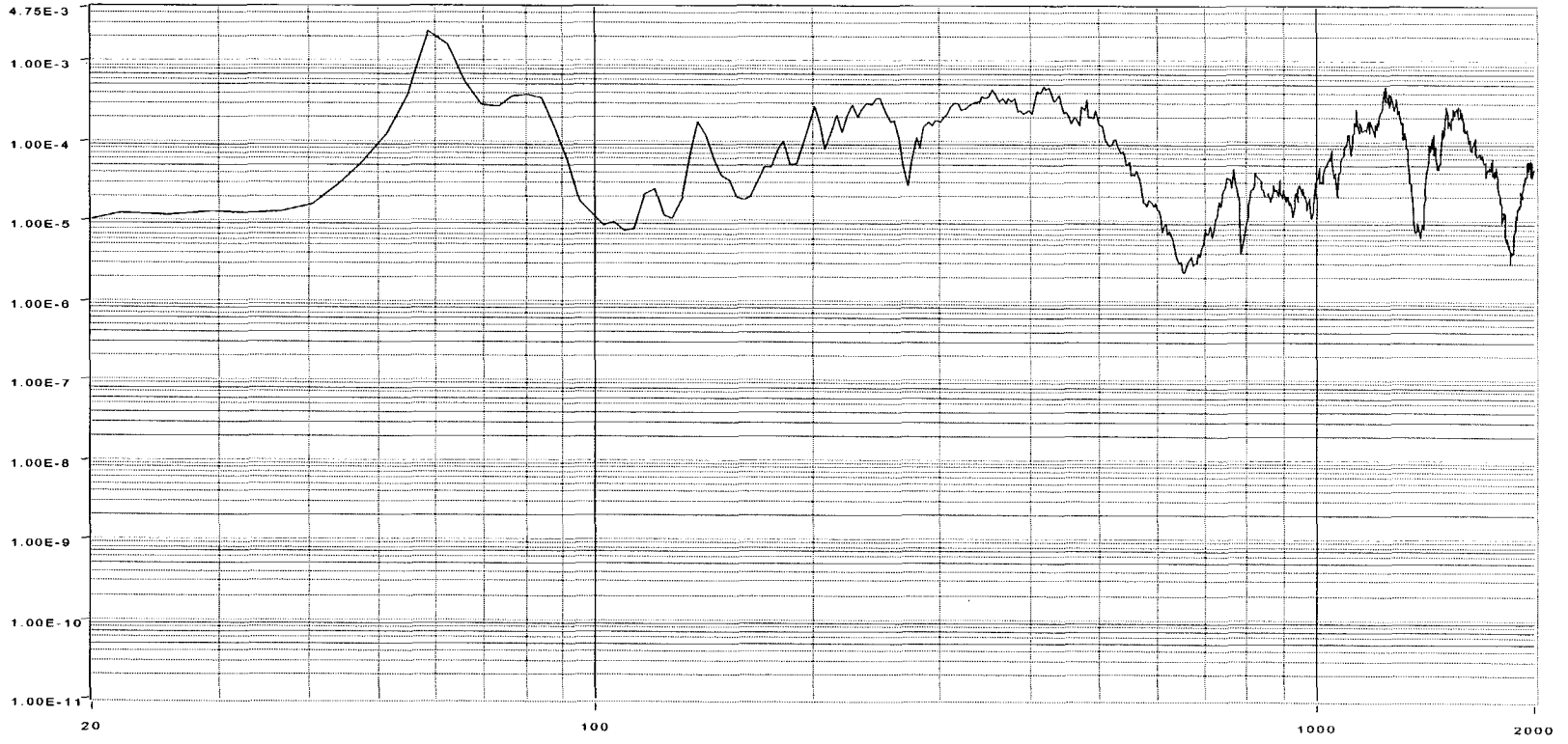
Channel #: 42 **Node Number:** 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 27.00

RMS= 4.643E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

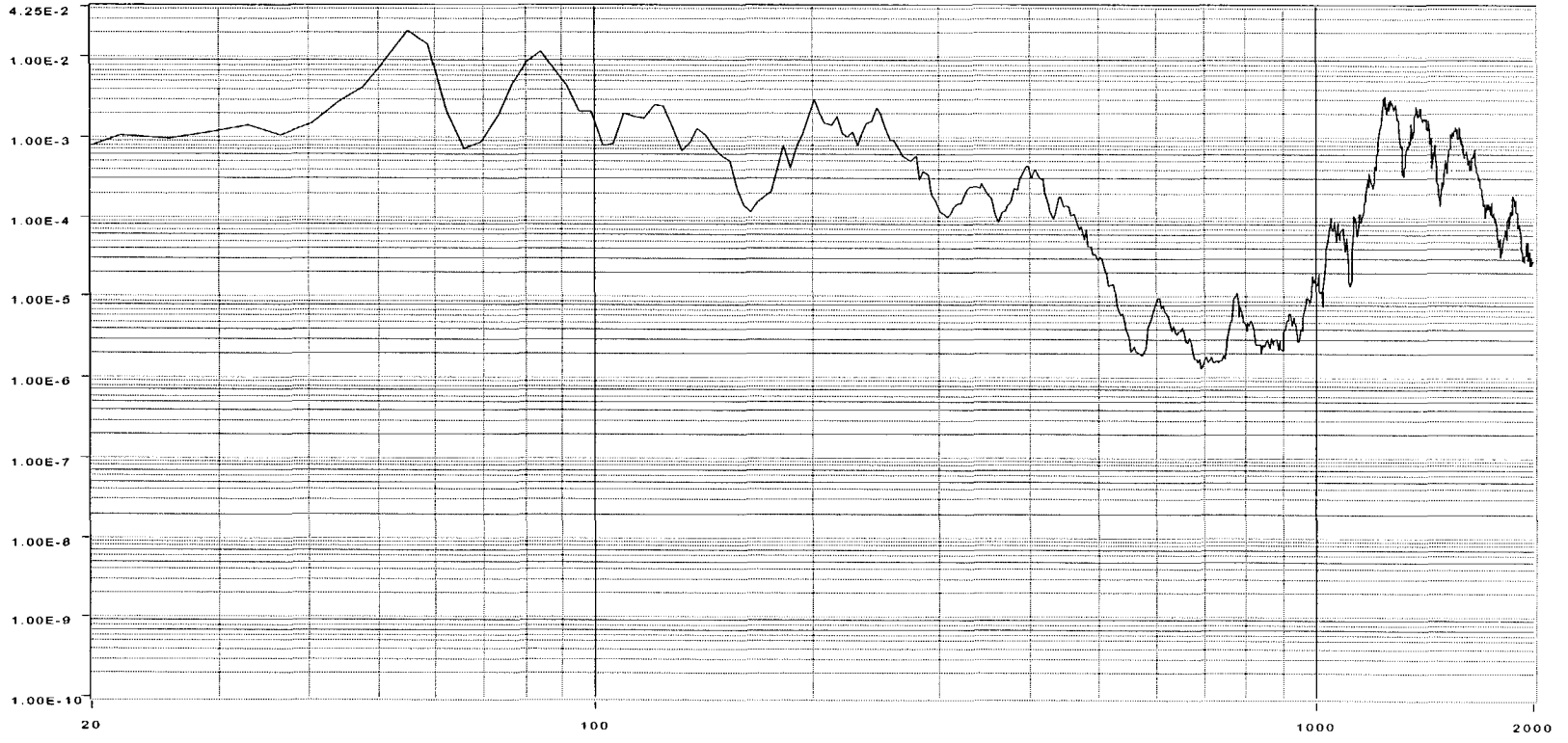
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 27.00

RMS= 1.092E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

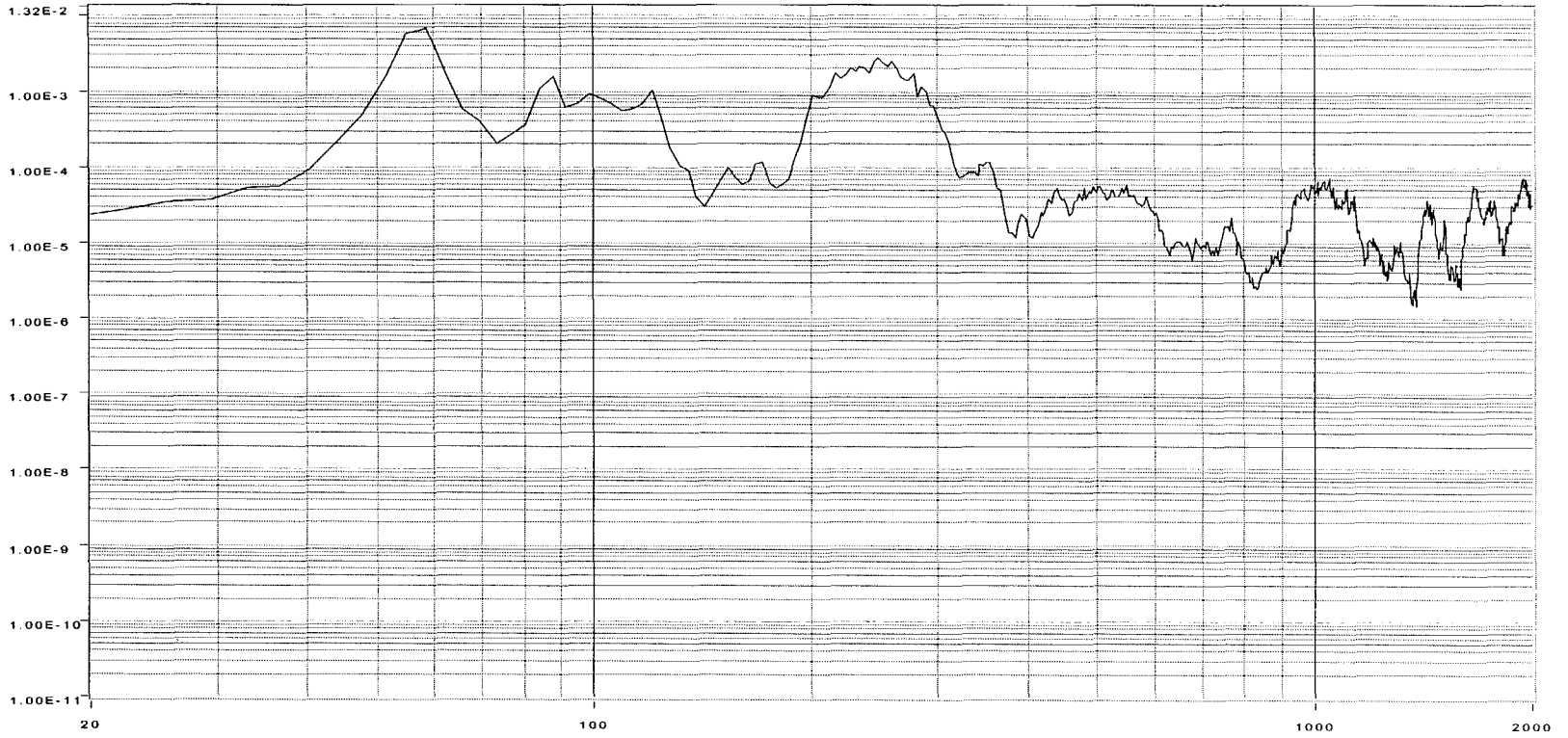
Channel #: 44 Node Number: 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 27.00

RMS= 5.607E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

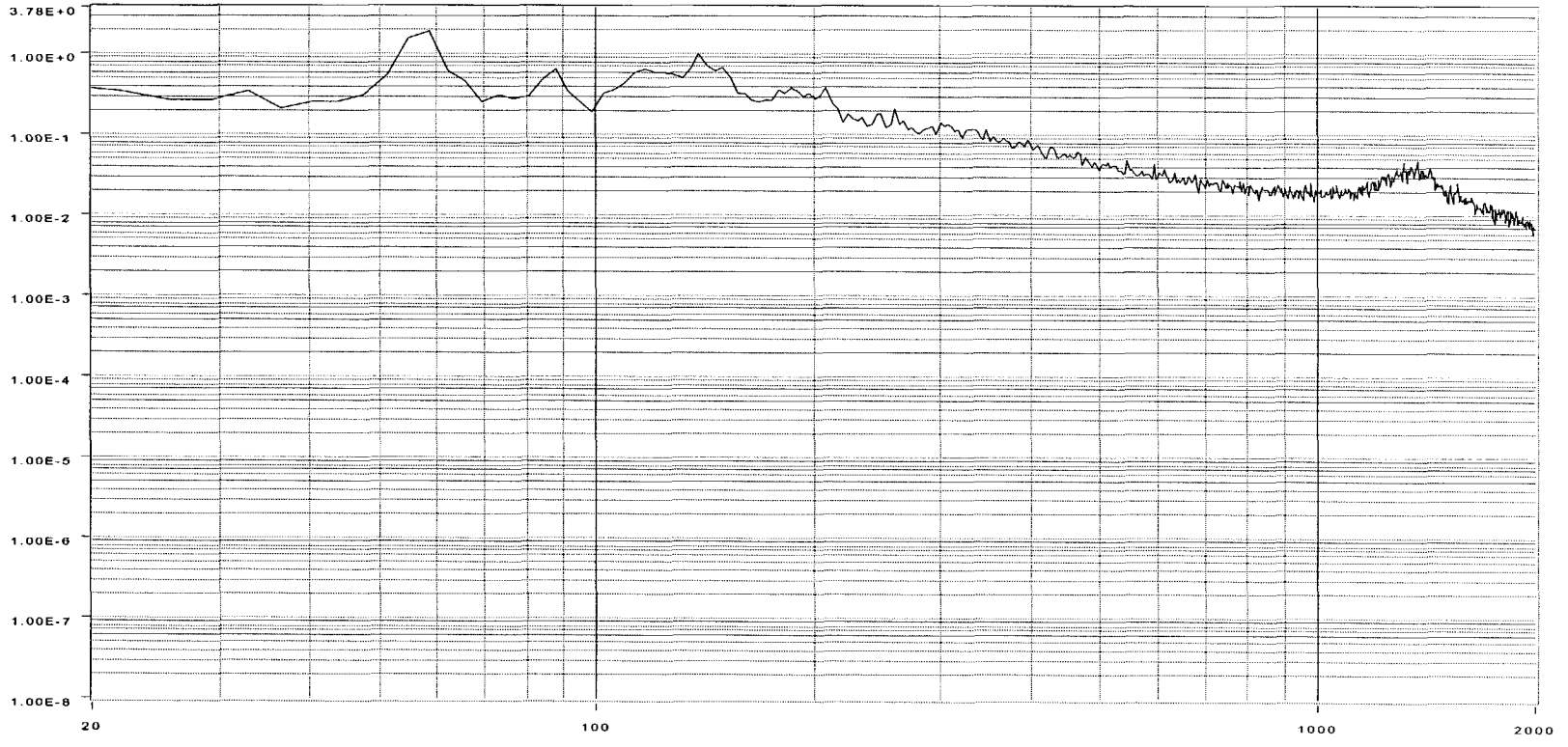
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 27.00

RMS= 1.220E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

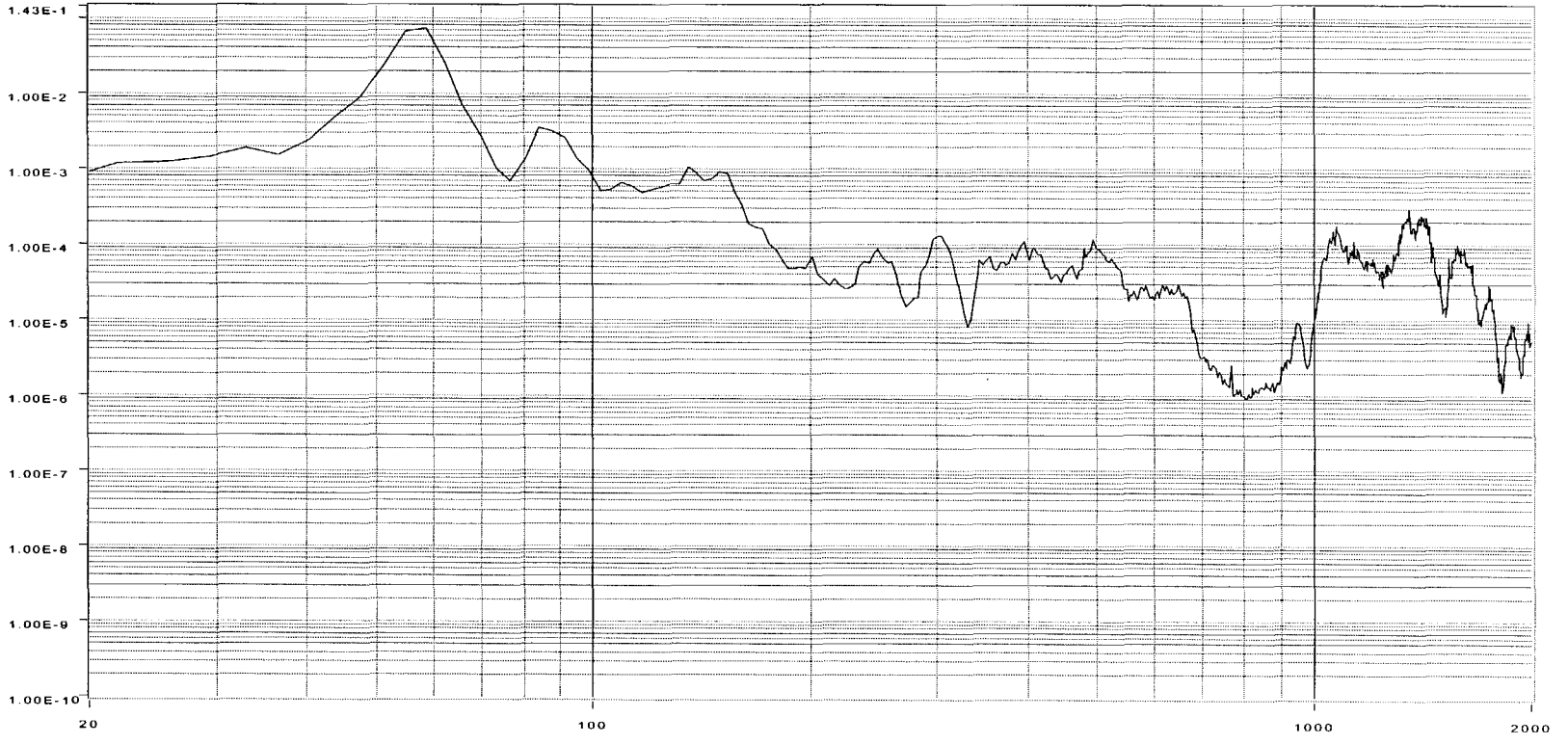
Channel #: 46 **Node Number:** 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 27.00

RMS= 9.960E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

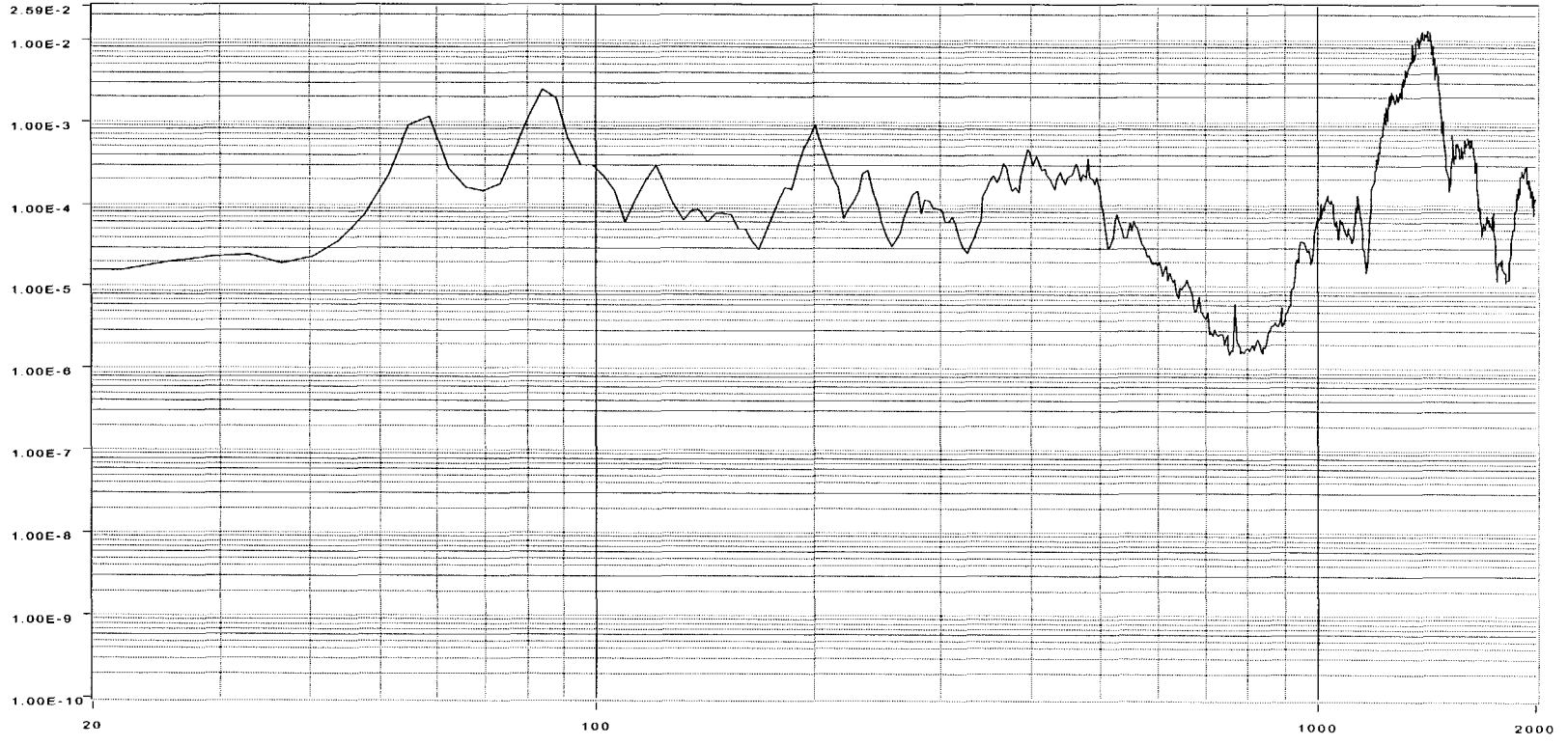
Channel #: 47 **Node Number:** 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 27.00

RMS= 1.268E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

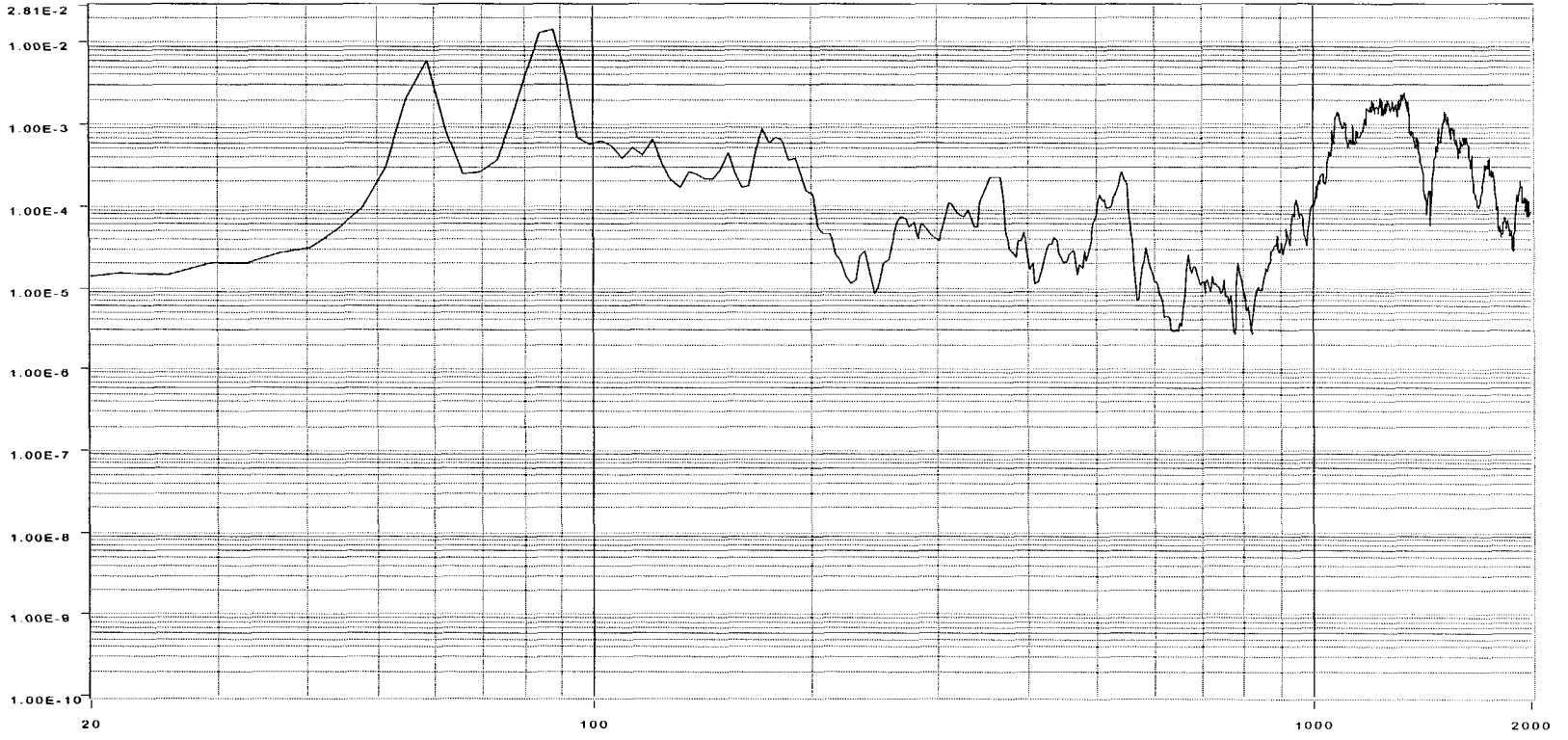
Channel #: 48 Node Number: 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 27.00

RMS= 9.374E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~X~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

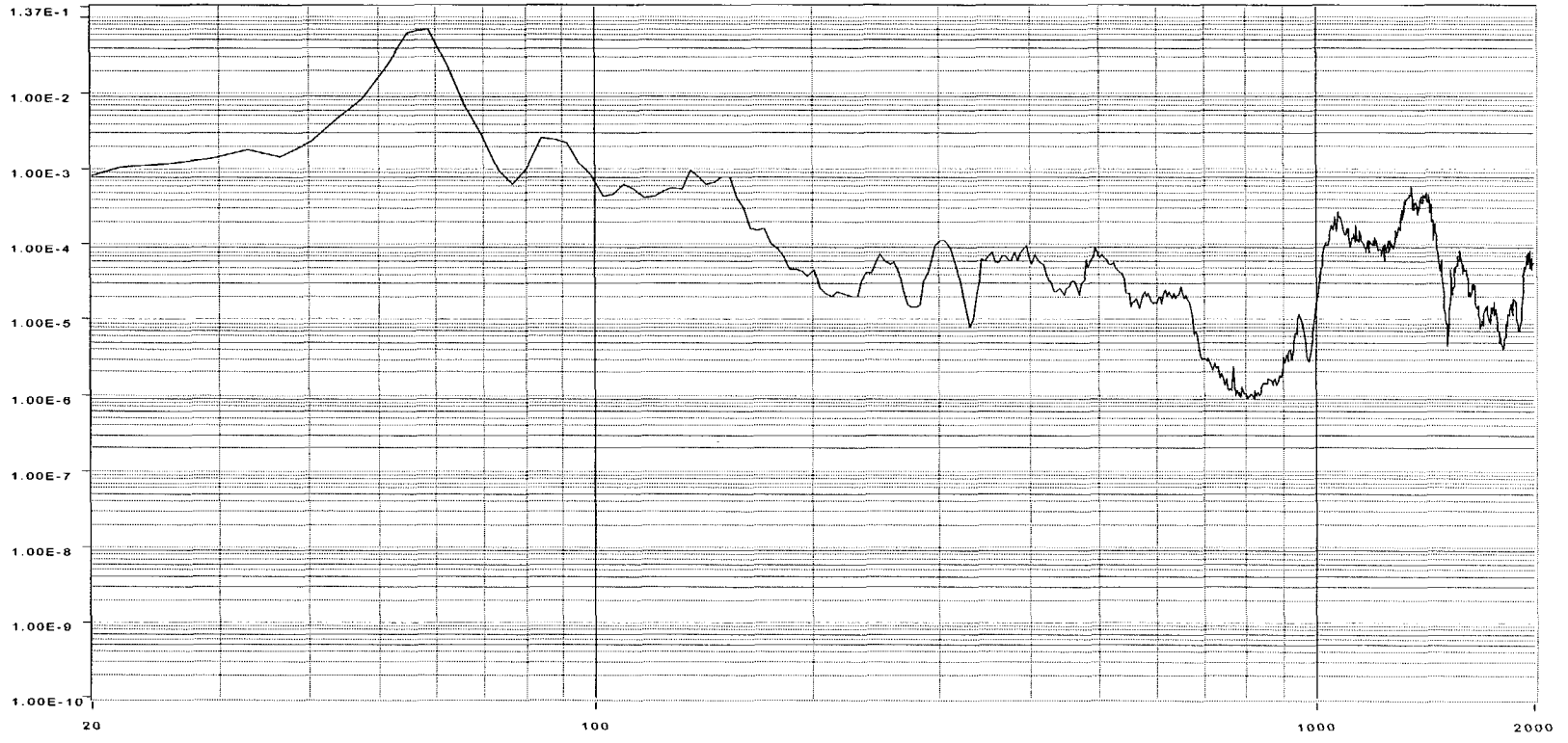
Channel #: 49 **Node Number:** 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 27.00

RMS= 9.922E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

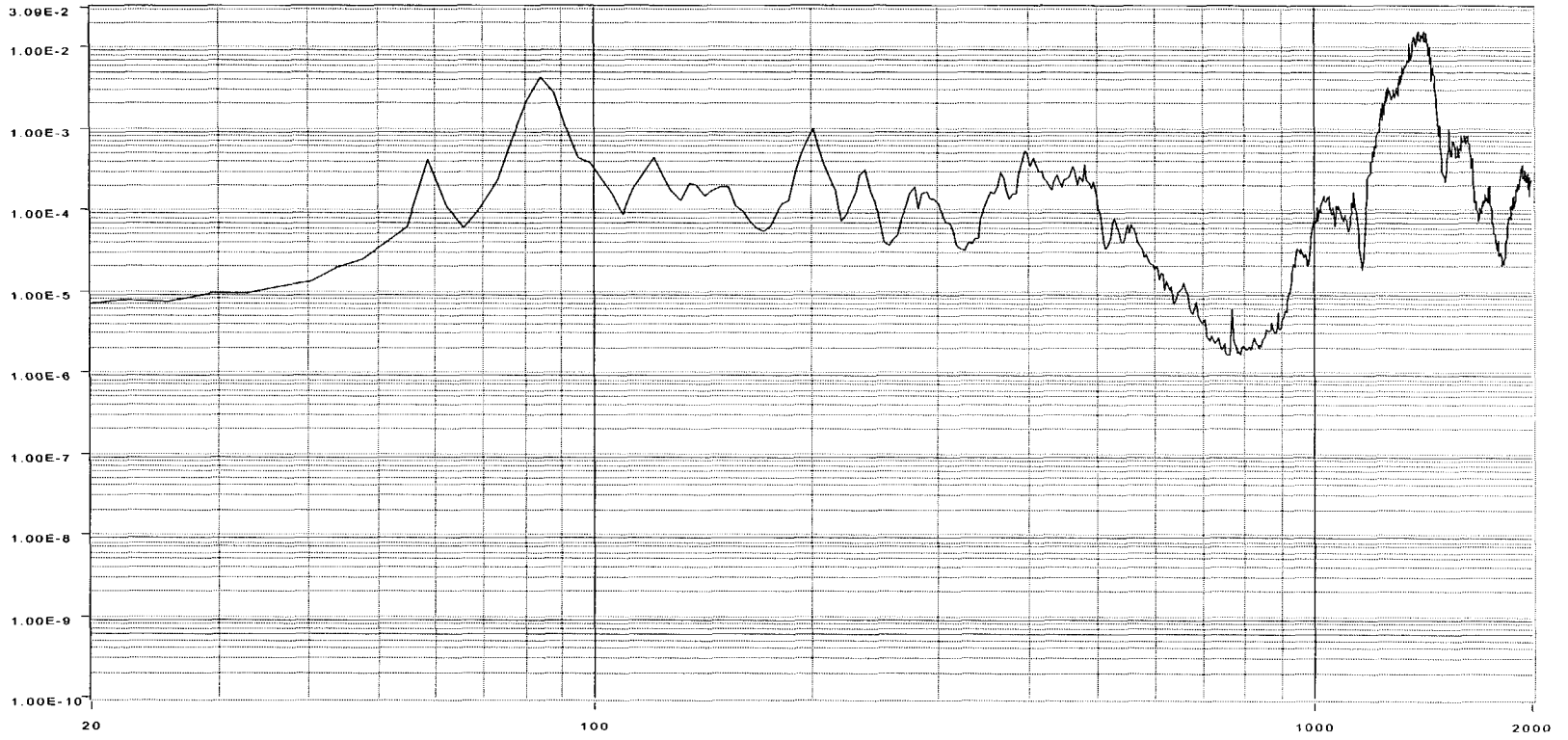
Channel #: 50 Node Number: 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 27.00

RMS= 1.405E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

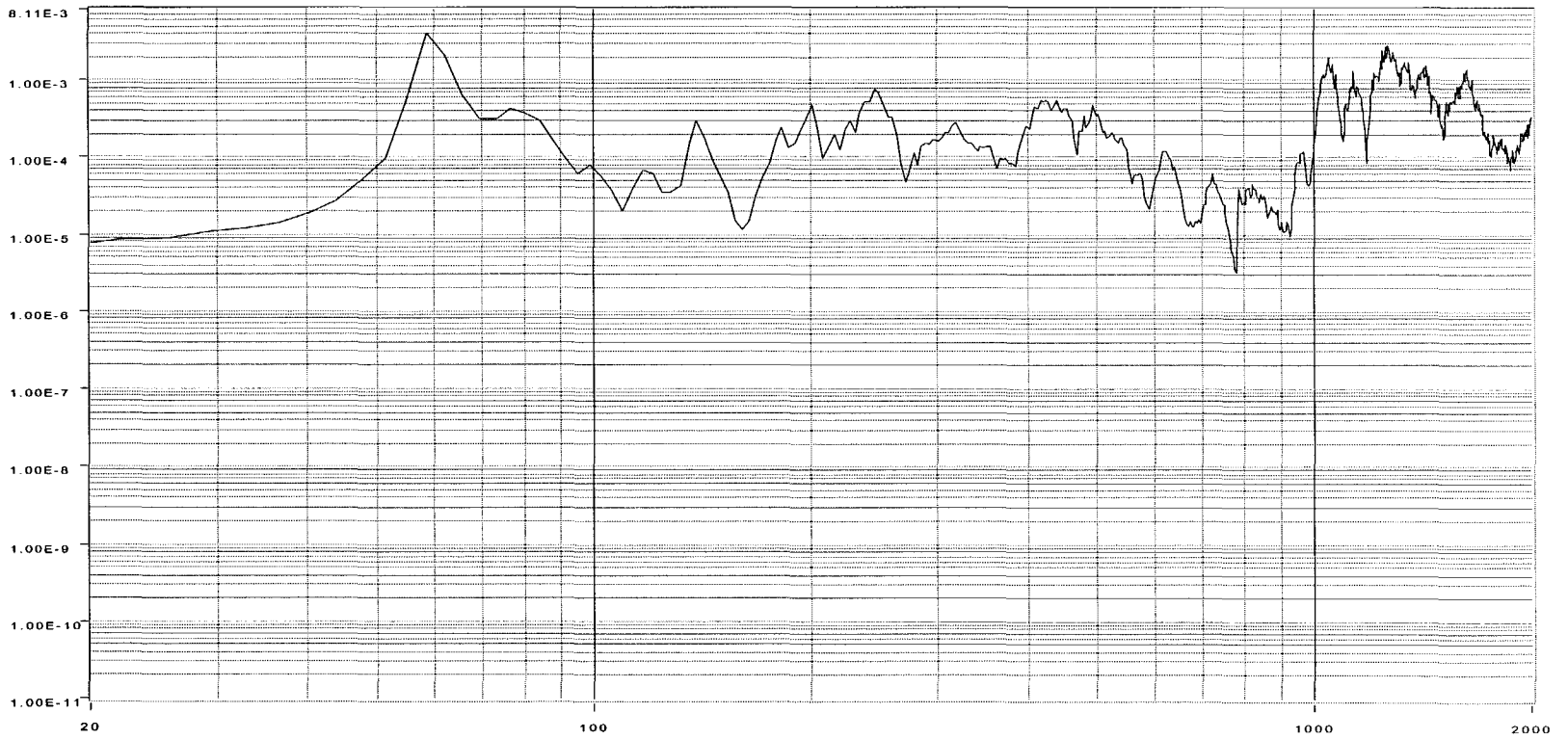
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 27.00

RMS= 9.072E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

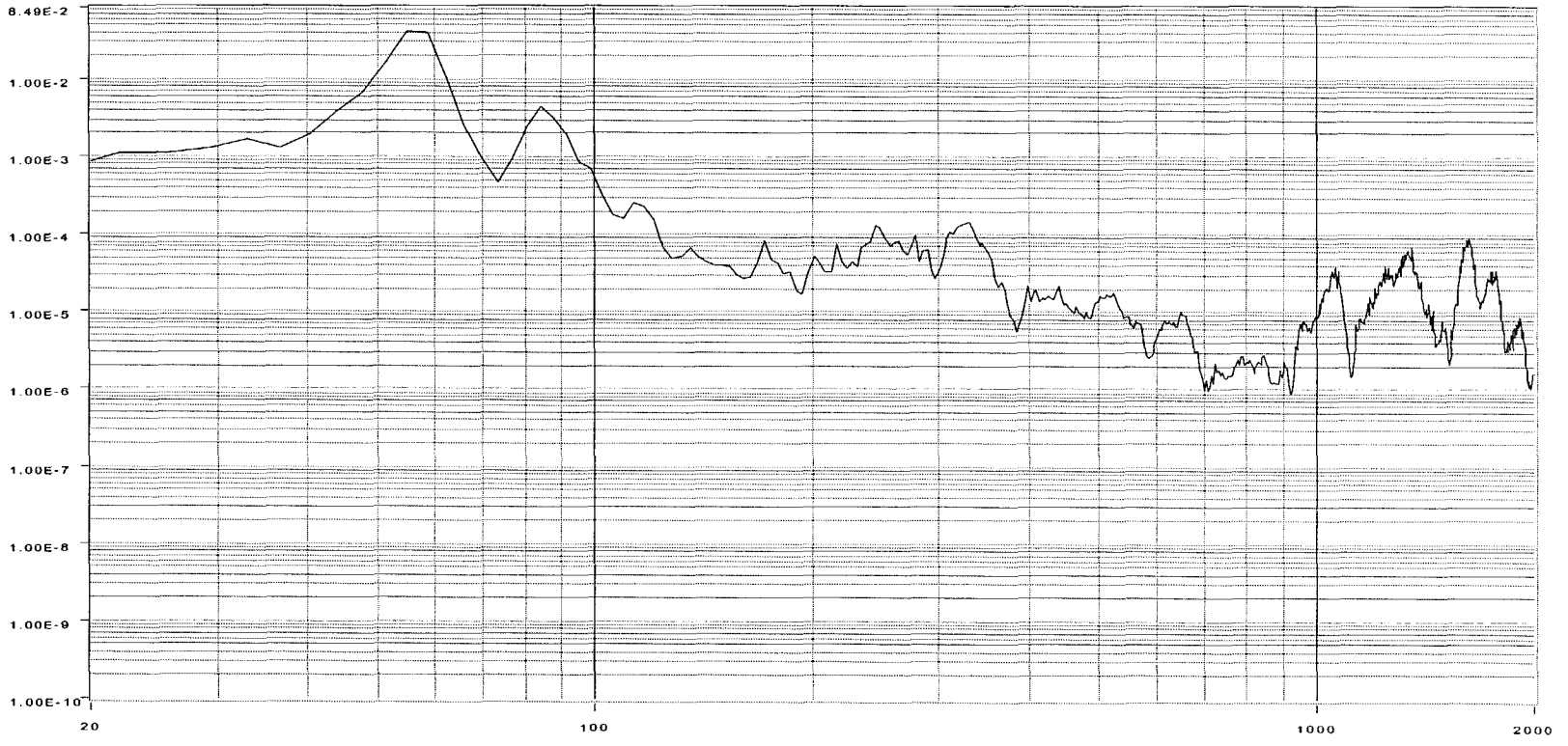
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 27.00

RMS= 7.601E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

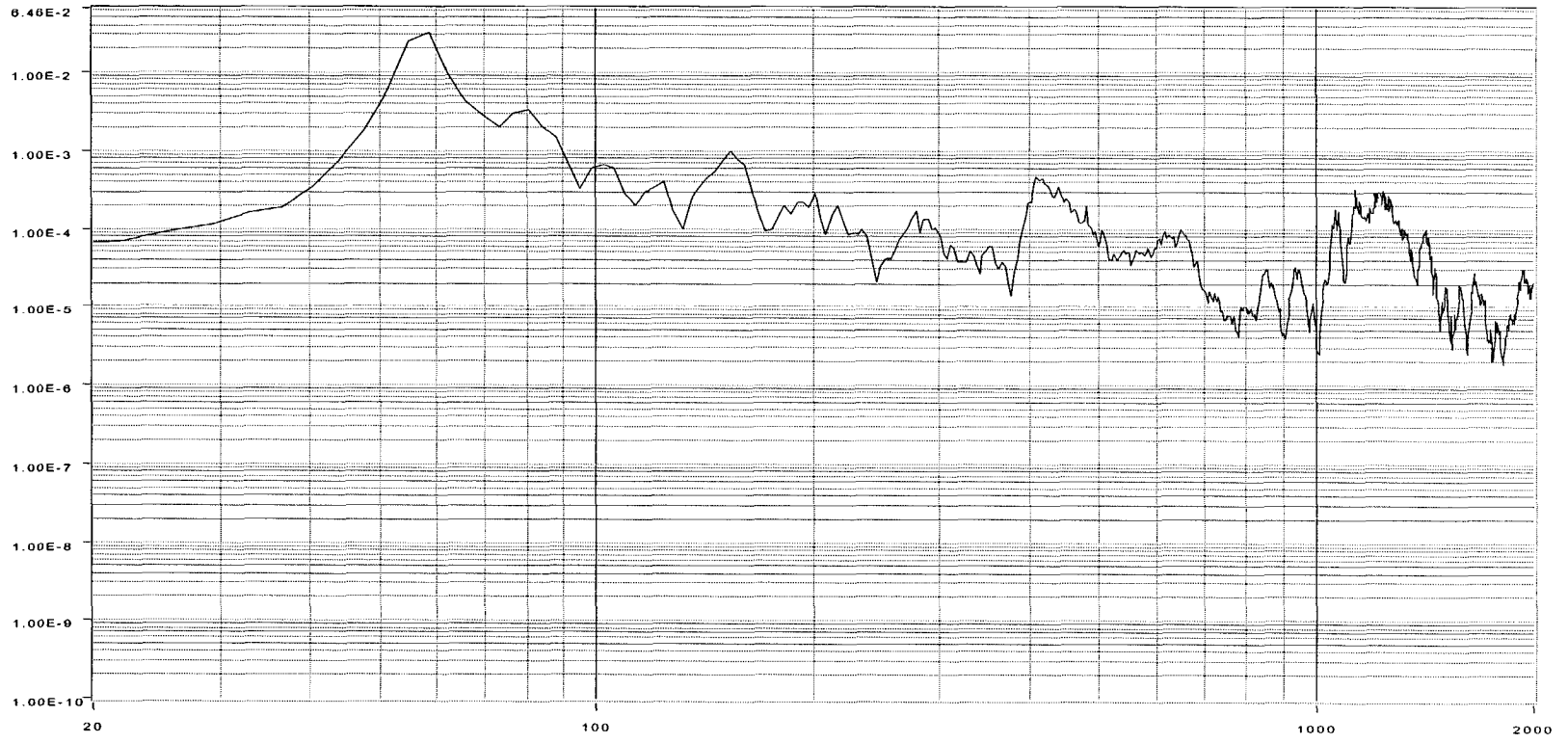
Channel #: 53 Node Number: 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 27.00

RMS= 7.081E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

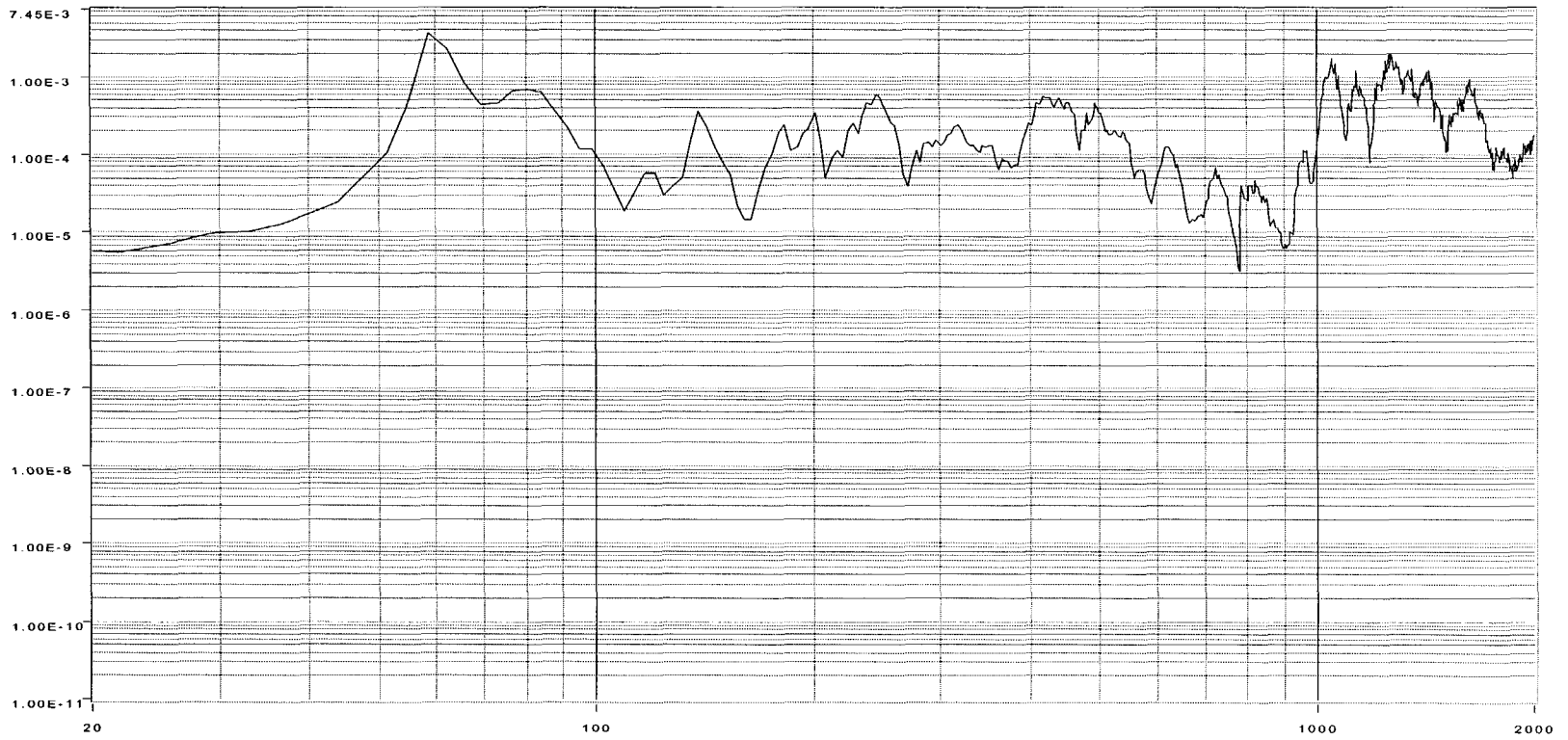
Channel #: 54 **Node Number:** 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 27.00

RMS= 8.040E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

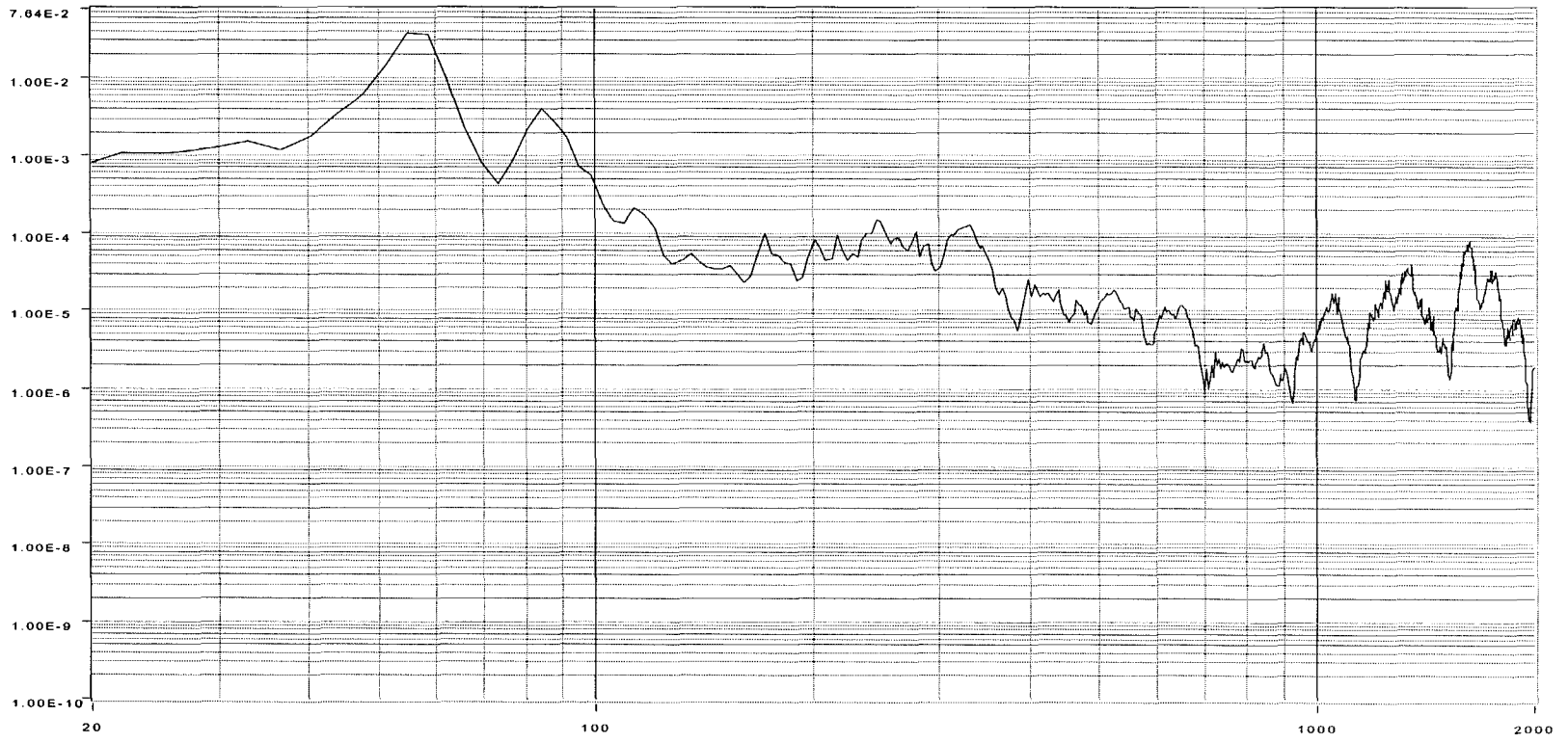
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 27.00

RMS= 7.196E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

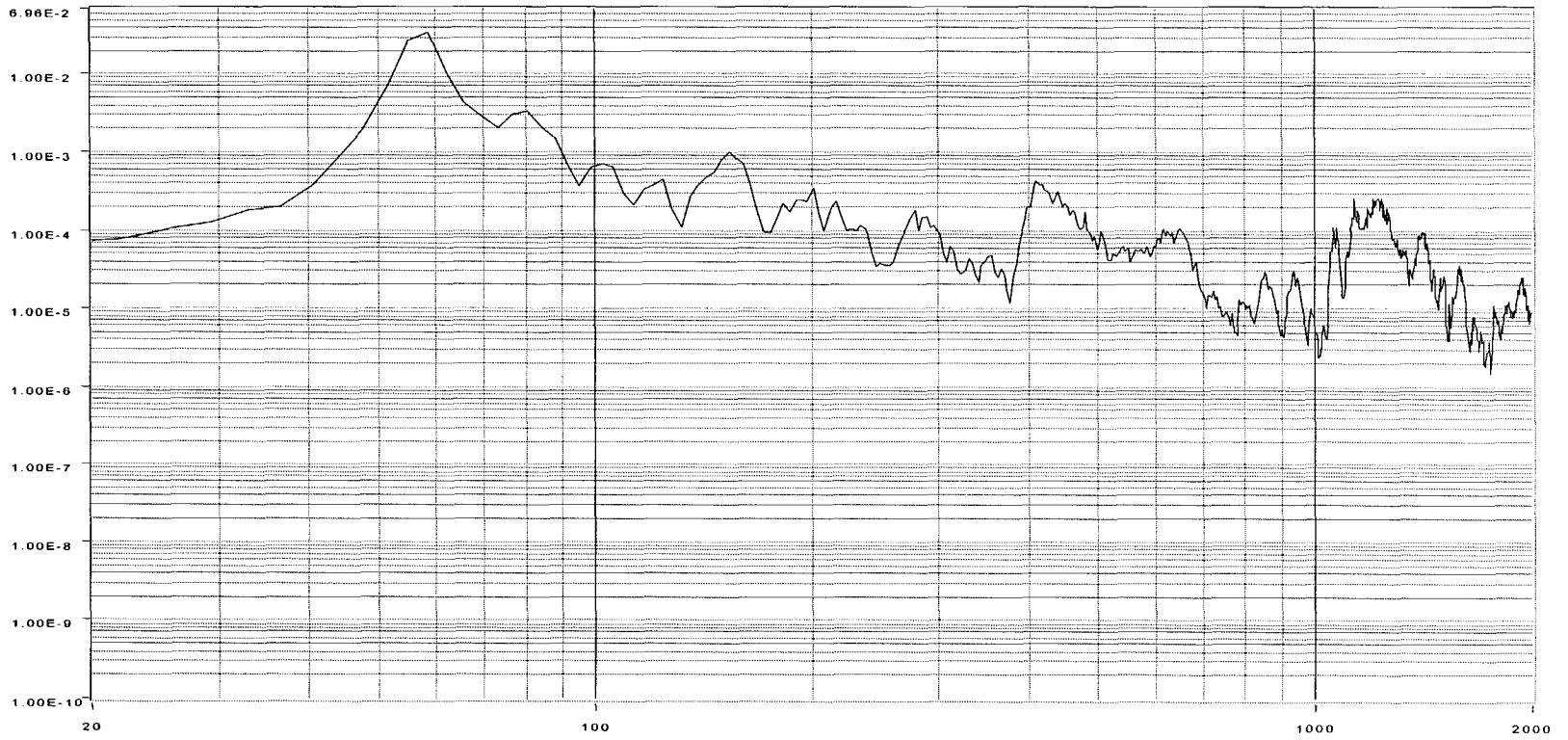
Channel #: 56 Node Number: 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 27.00

RMS= 7.179E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 18:50:26

Test title: HIRDLS VIBRATION TEST: ~~Z~~ Y-AXIS -12db rando

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062411

Test description: HIRDLS VIBRATION TEST: Z-AXIS -12db rando

Part number/id: Y4011

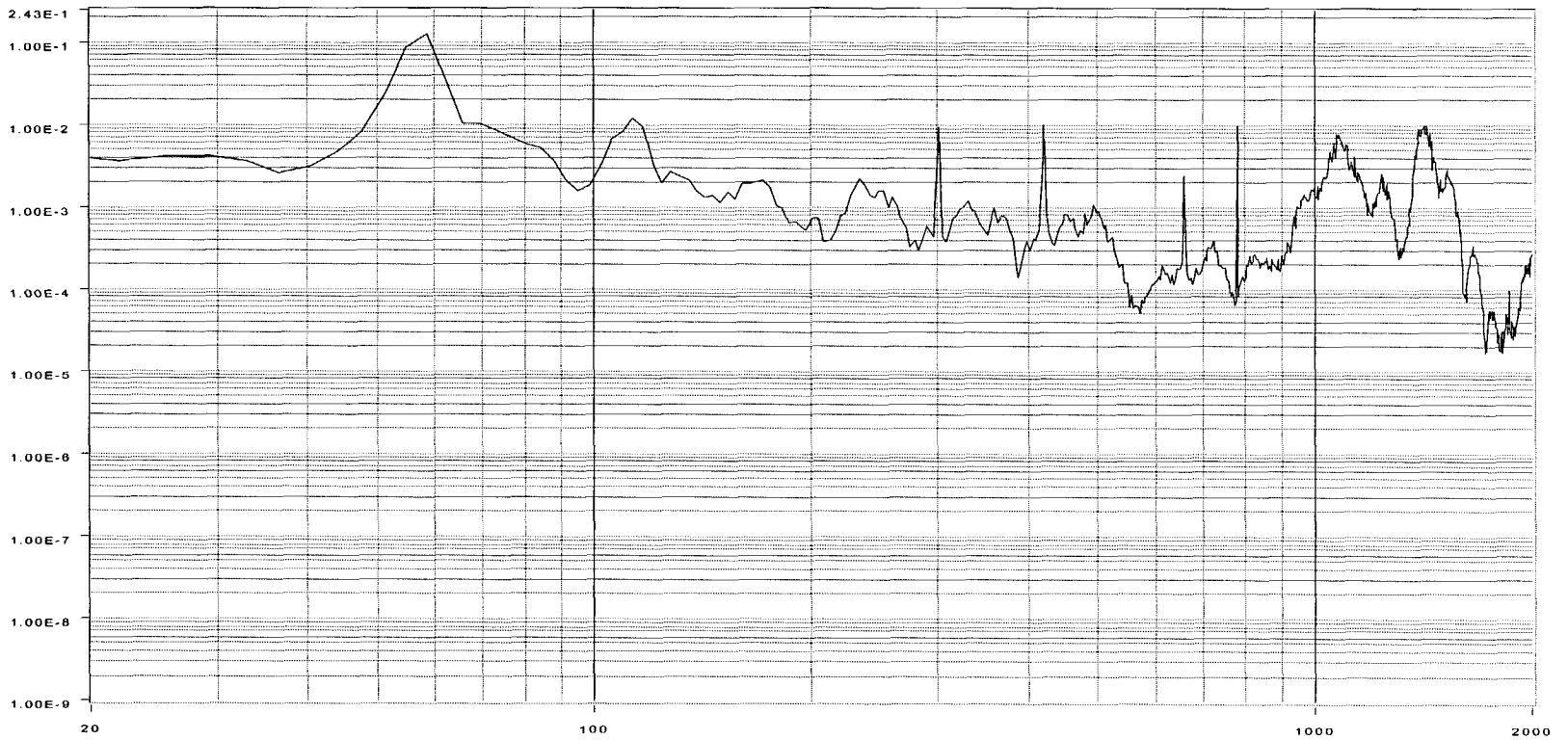
Channel #: 57 **Node Number:** 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 27.00

RMS= 1.946E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

Analysis Date & time: 6/24/02 7:07 PM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

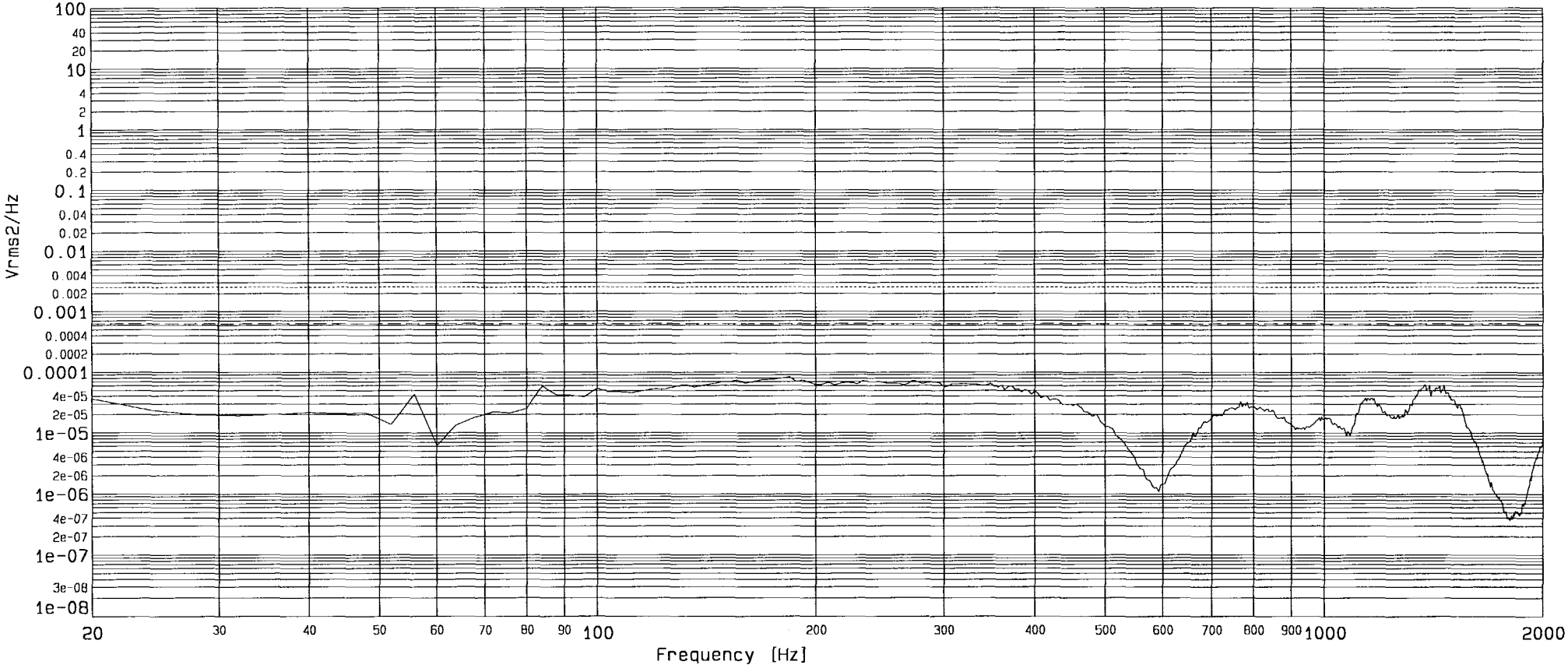
Project : hirdls
Test : Y_HIRDLS
Run : 2 062412

Date : 24-06-02
Time : 19:34:55
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 223.28e-03 Vrms
Number of averages : 5

Trace identification :
- Drive PSD
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -6dB

run 062412

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

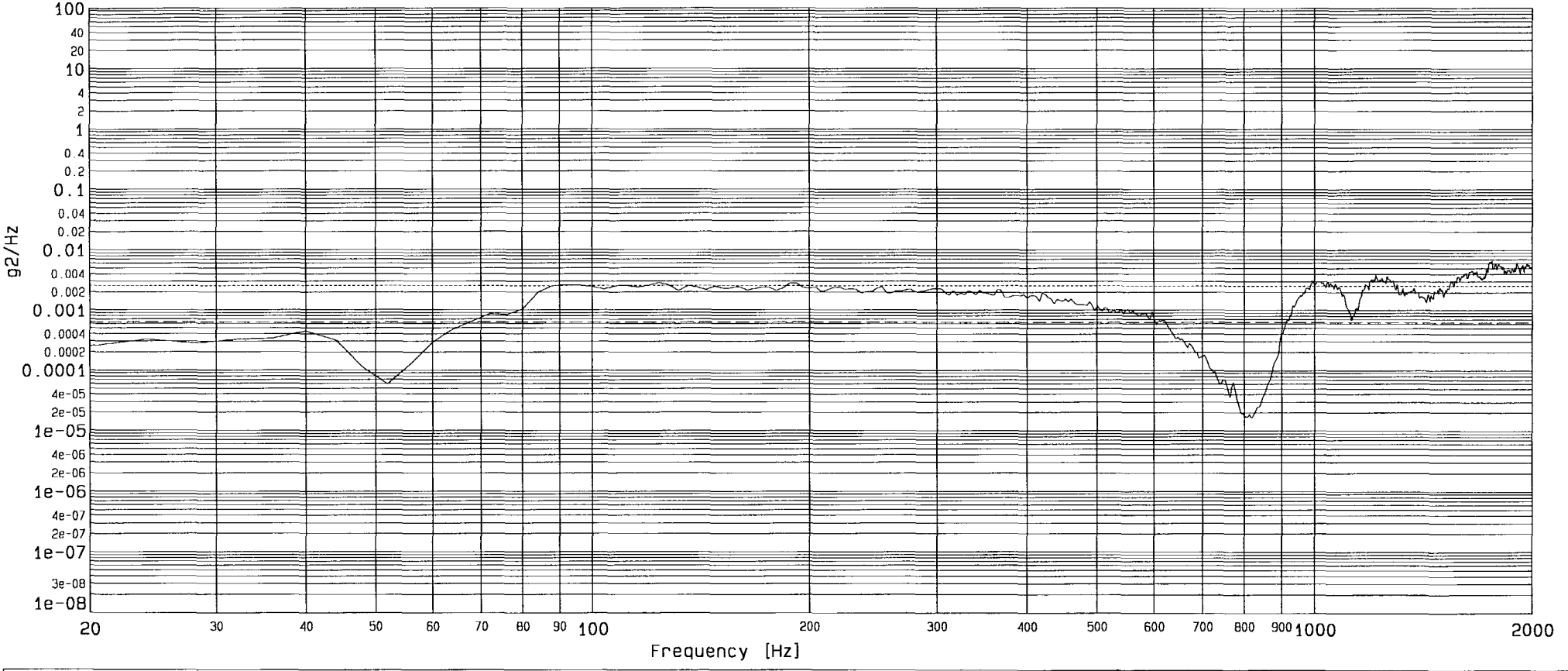
Project : hirdls
Test : Y_HIRDLS
Run : 2 062412

Date : 24-06-02
Time : 19:34:55
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.10 g
Number of averages : 74

Trace identification :
N_CONTROL_Y
Reference
Upper Ab
Lower Ab



HIRDLS Y AXIS -6dB

run 062412

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

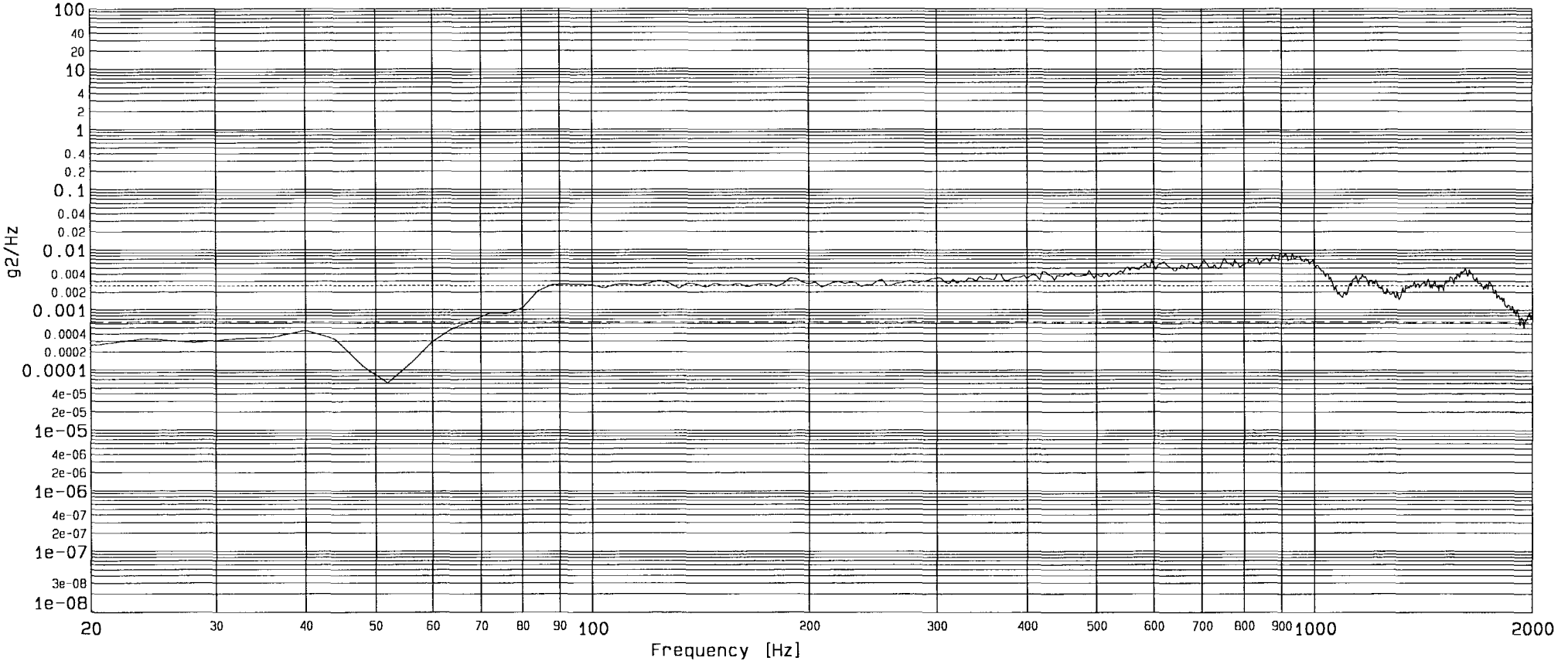
Project : hirdls
Test : Y_HIRDLS
Run : 2 062412

Date : 24-06-02
Time : 19: 34: 55
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.60 g
Number of averages : 74

Trace identification :
S_CONTROL_Y
Reference
Upper Ab
Lower Ab



HIRDLS Y AXIS -6dB

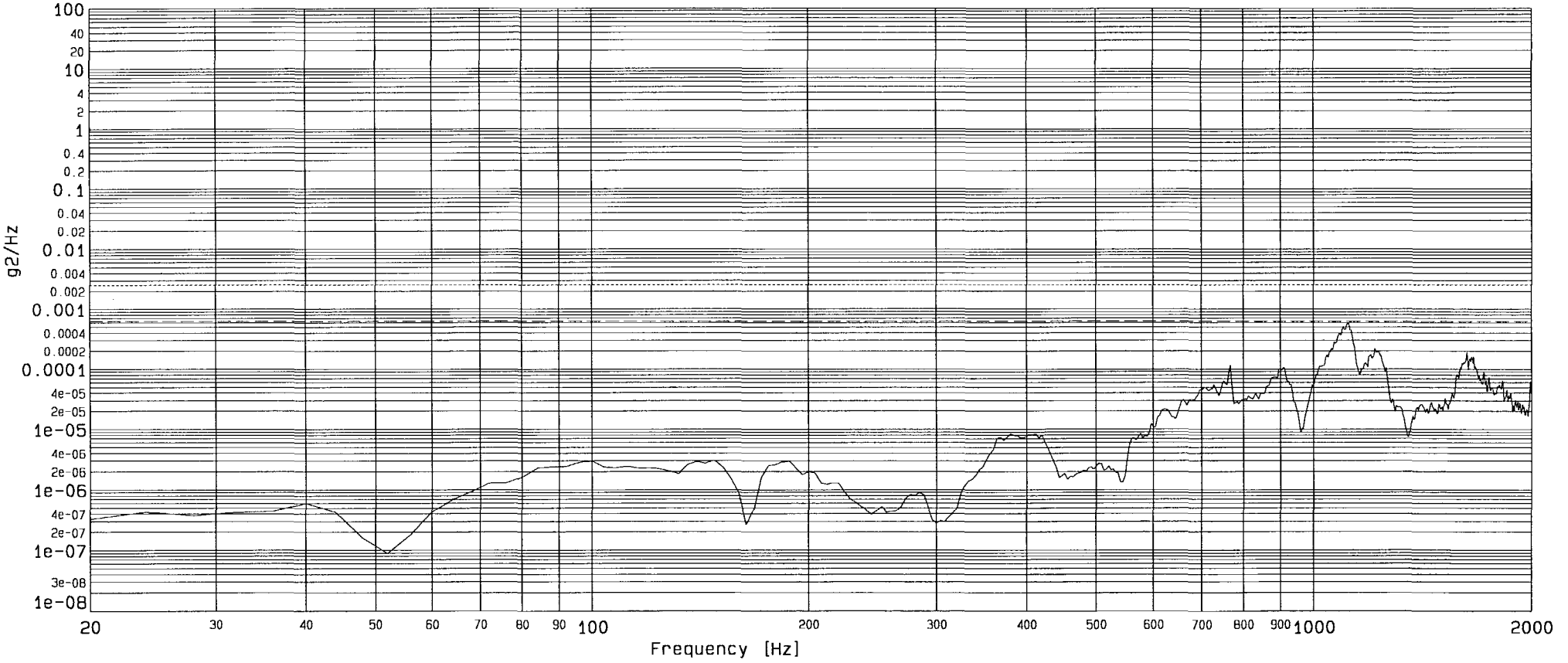
run 062412

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date :	24-06-02
Test	: Y_HIRDLS	Time :	19: 34: 55
Run	: 2 062412	Mode :	Random Vibration Control

Test level	: -6.00 dB	PSD Level (RMS)	: 328.60e-03 g	Trace identification :	N_CONTROL_X
Elapsed time	: 00: 00: 30.1	Number of averages	: 74		Reference
Degrees of freedom	: 280				Upper Ab
Control strategy	: Average				Lower Ab
Frequency resolution	: 4 Hz				



HIRDLS Y AXIS -6dB

run 062412

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

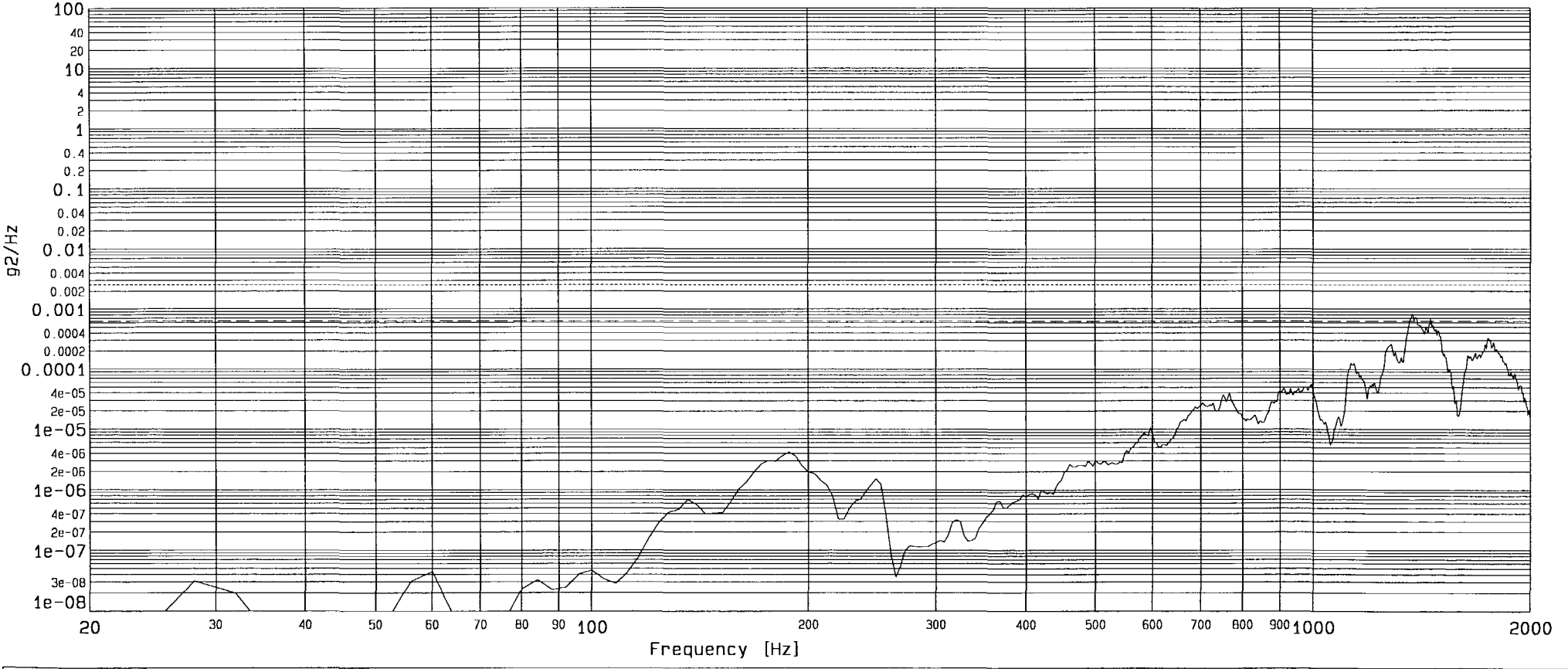
Project : hirdls
Test : Y_HIRDLS
Run : 2 062412

Date : 24-06-02
Time : 19:34:55
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 429.28e-03 g
Number of averages : 74

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -6dB

run 062412

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

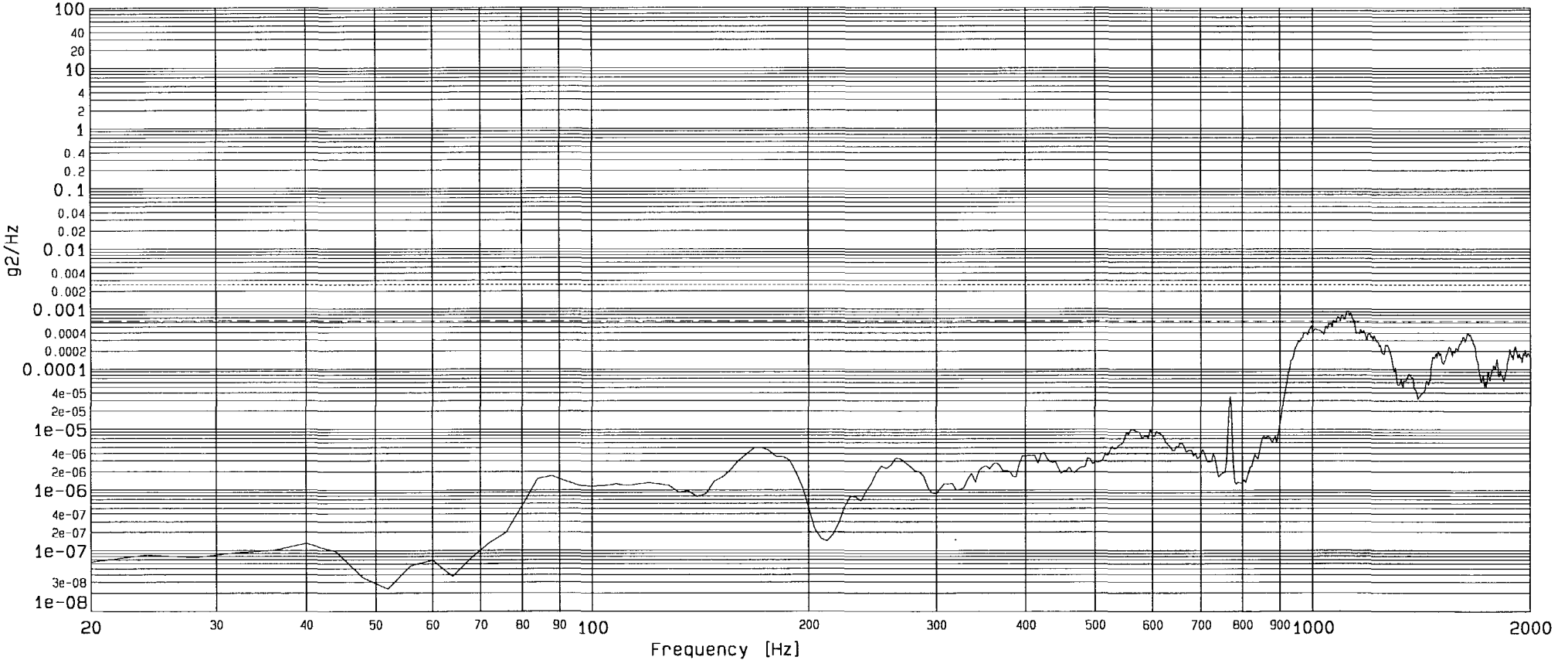
Project : hirdls
Test : Y_HIRDLS
Run : 2 062412

Date : 24-06-02
Time : 19:34:55
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 512.43e-03 g
Number of averages : 74

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -6dB

run 062412

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

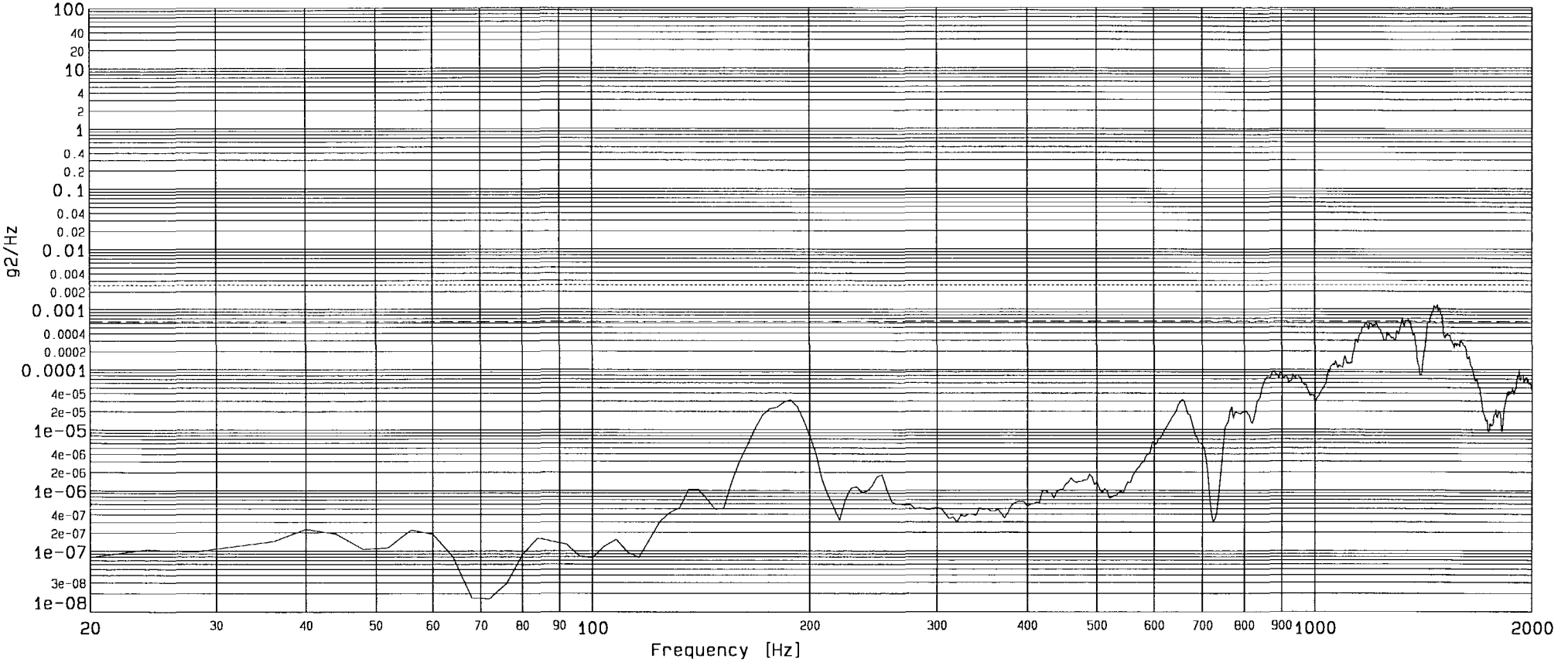
Project : hirdls
Test : Y_HIRDLS
Run : 2 062412

Date : 24-06-02
Time : 19:34:55
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 517.76e-03 g
Number of averages : 74

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -6dB

run 062412

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

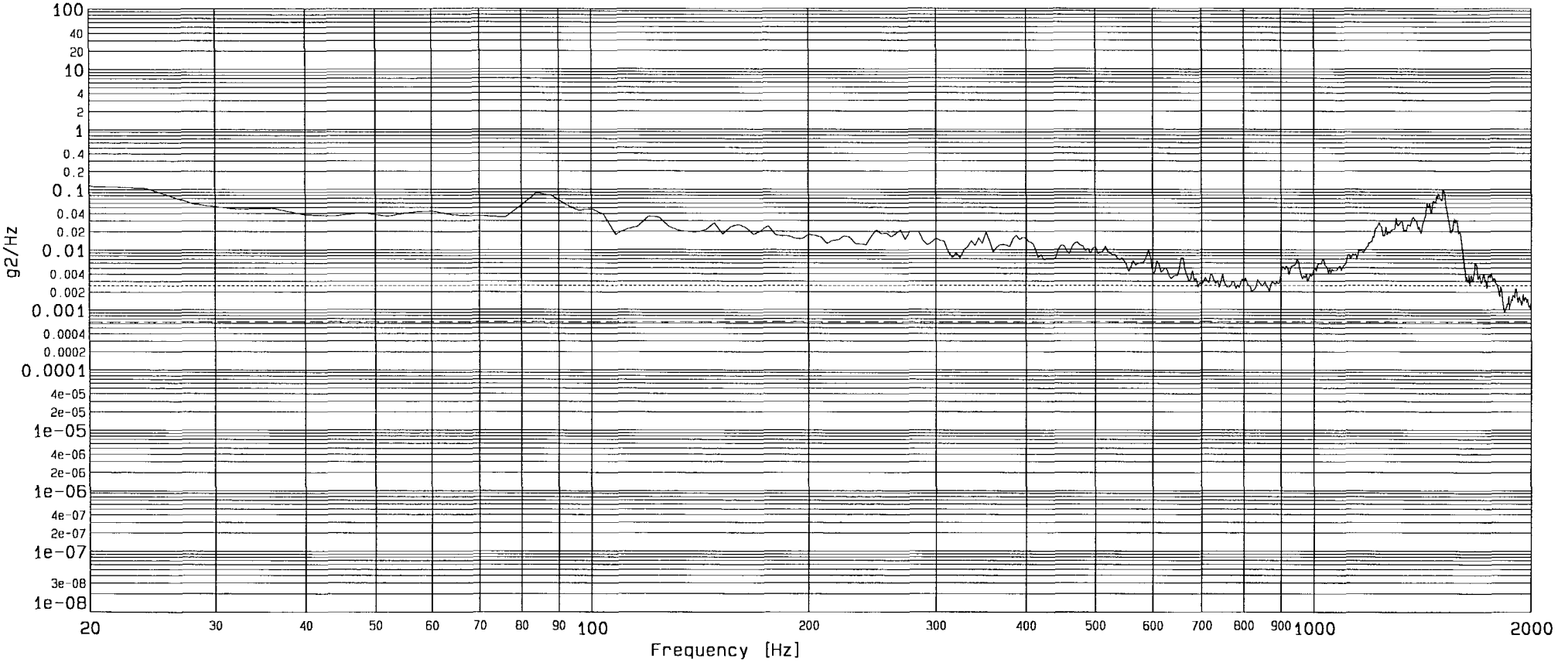
Project : hirdls
Test : Y_HIRDLS
Run : 2 062412

Date : 24-06-02
Time : 19:34:55
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 5.37 g
Number of averages : 74

Trace identification :
- A1Y_YPANEL_UPI
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS -6dB

run 062412

date 06-24-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

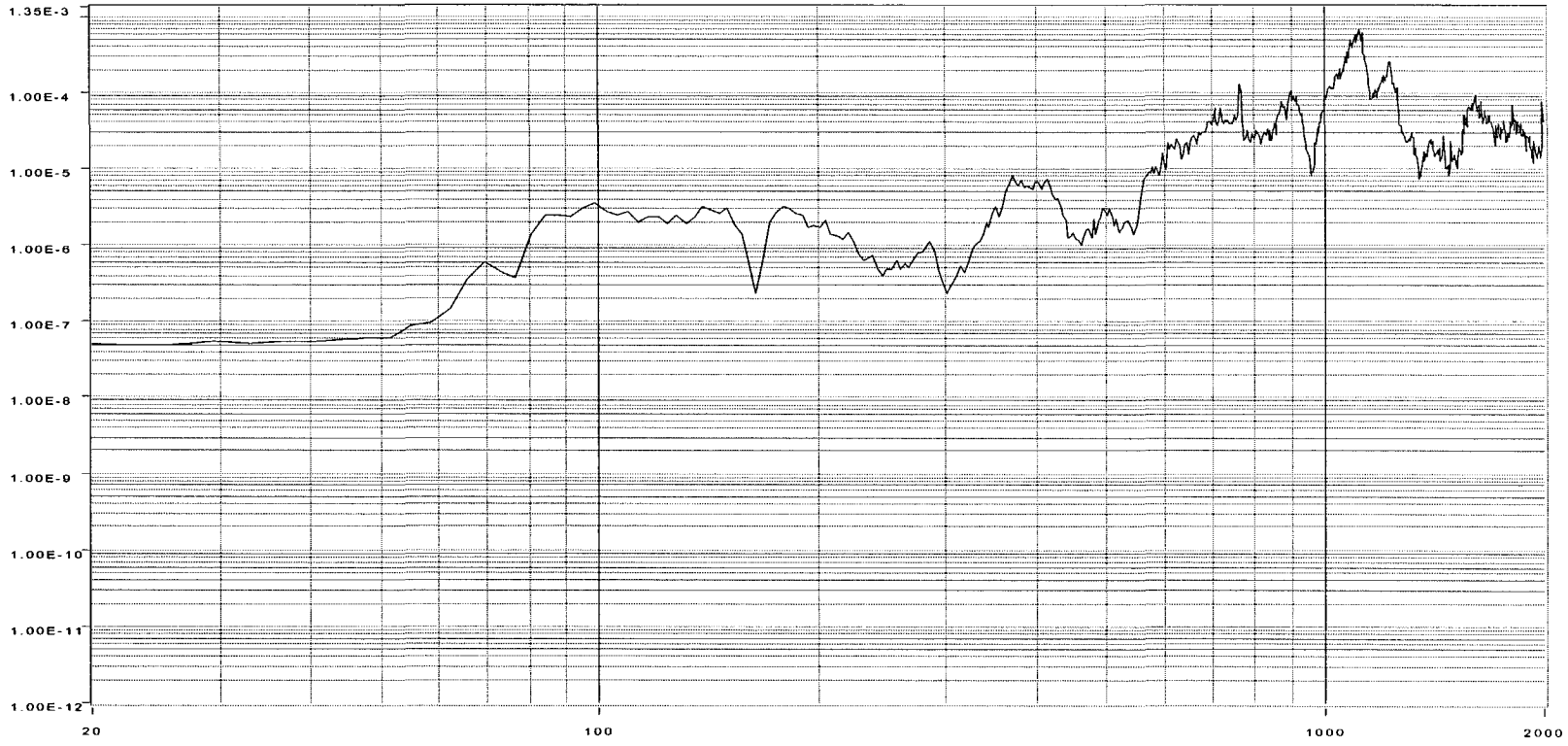
Channel #: 1 Node Number: 0001

Channel Label: North_Control_X

Channel Description:

Start Time: 48.00

RMS= 3.114E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_X

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

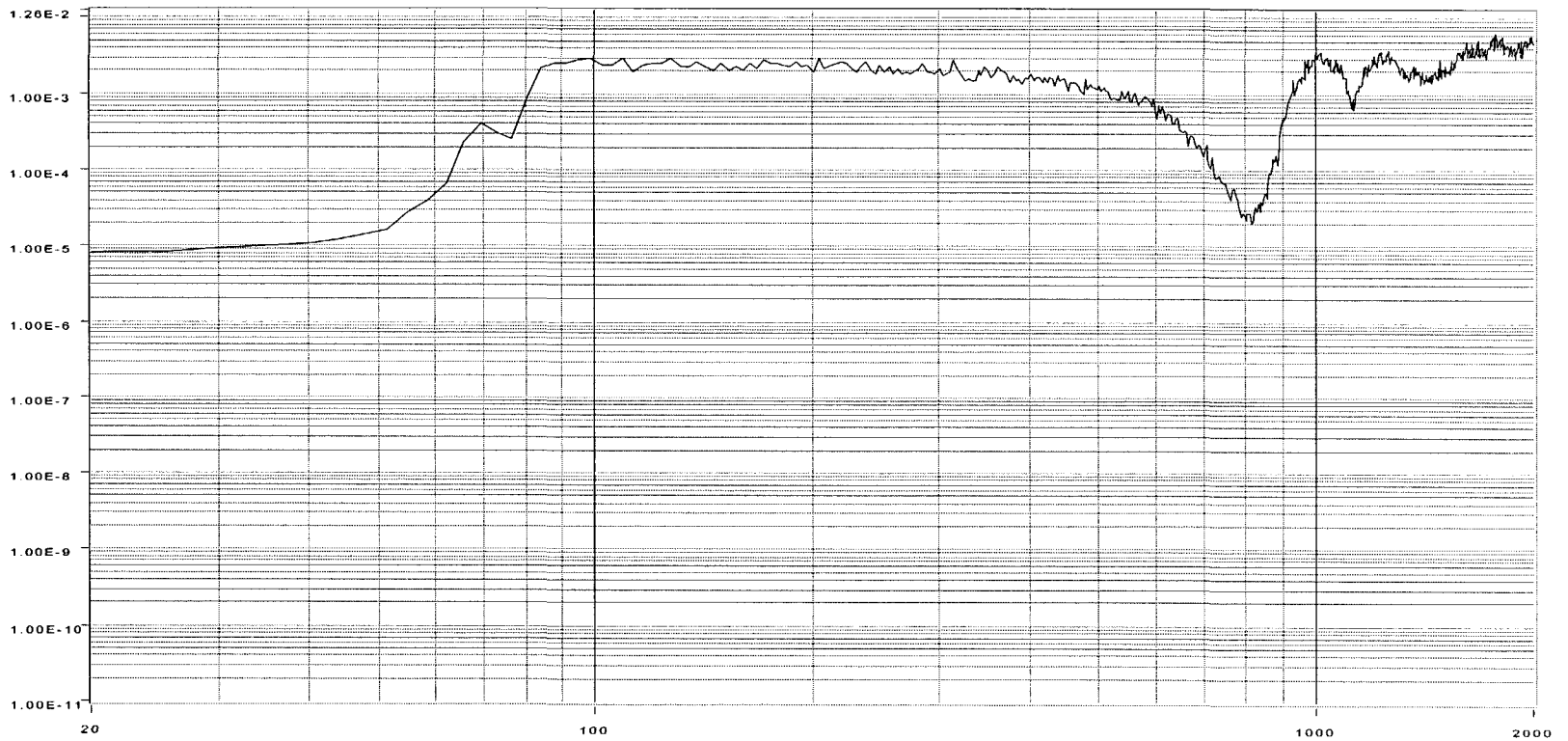
Channel #: 2 Node Number: 0002

Channel Label: North_Control_Y

Channel Description:

Start Time: 48.00

RMS= 2.035E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Y

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

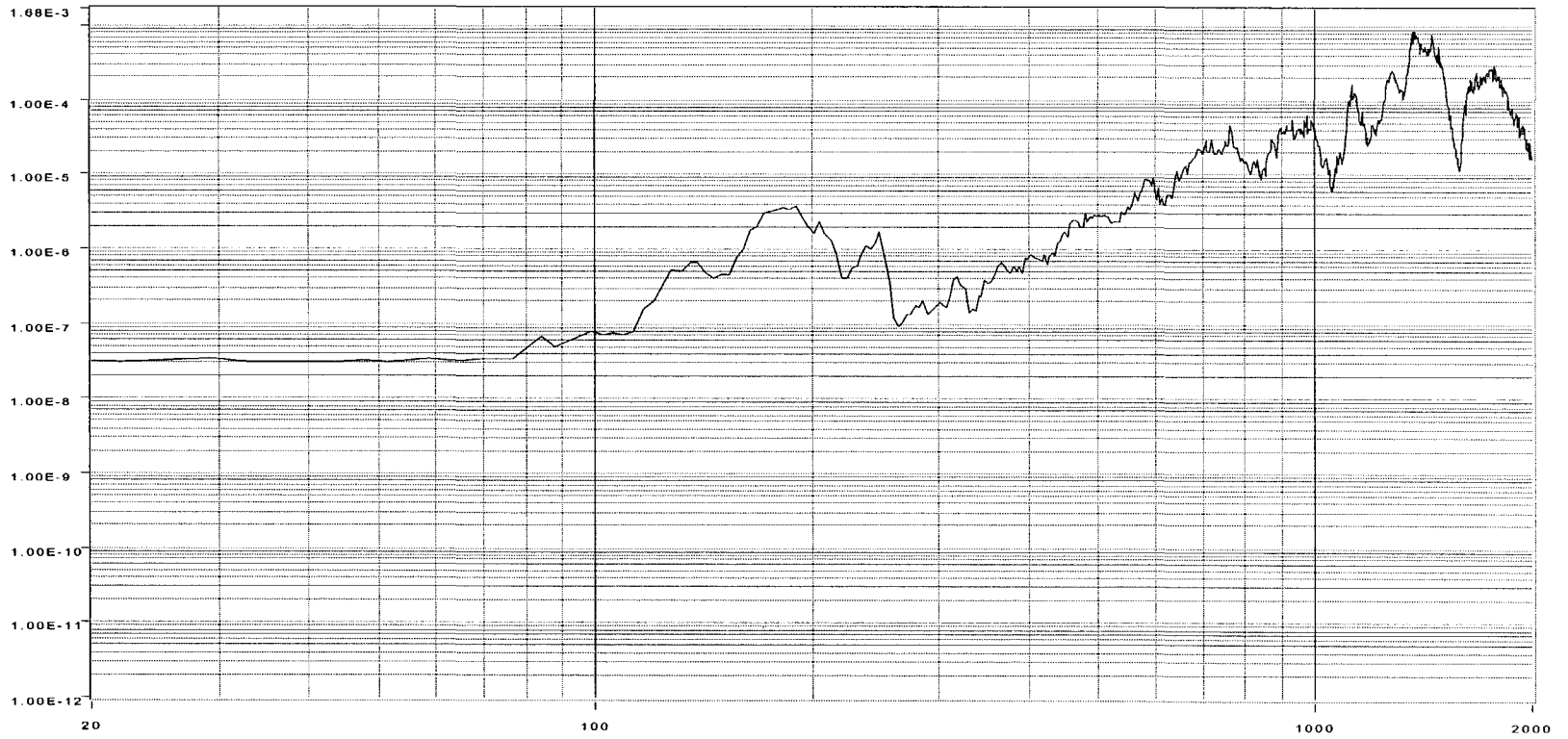
Channel #: 3 **Node Number:** 0003

Channel Label: North_Control_Z

Channel Description:

Start Time: 48.00

RMS= 4.200E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Z

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

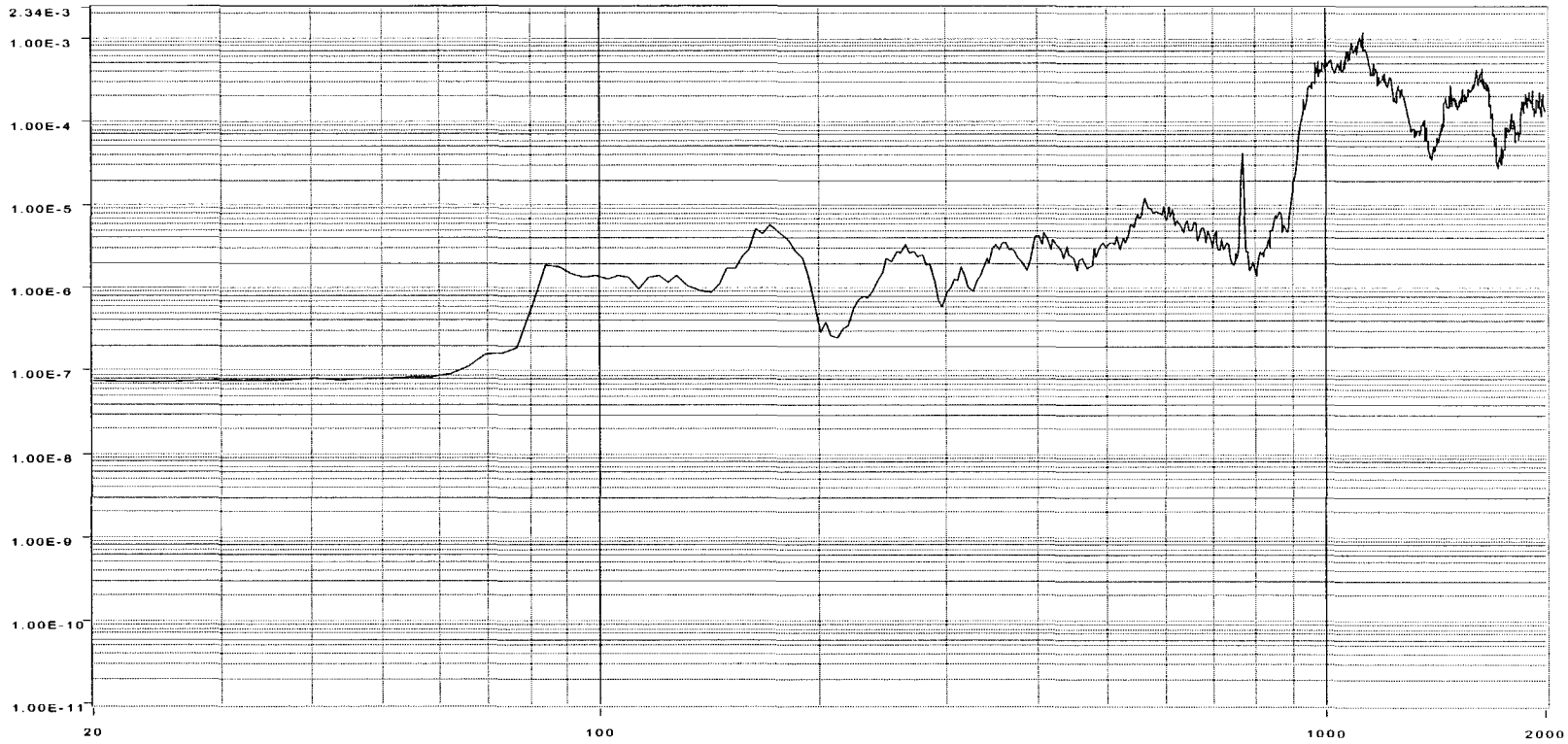
Channel #: 4 **Node Number:** 0004

Channel Label: South_Control_X

Channel Description: I

Start Time: 48.00

RMS= 5.123E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_X

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

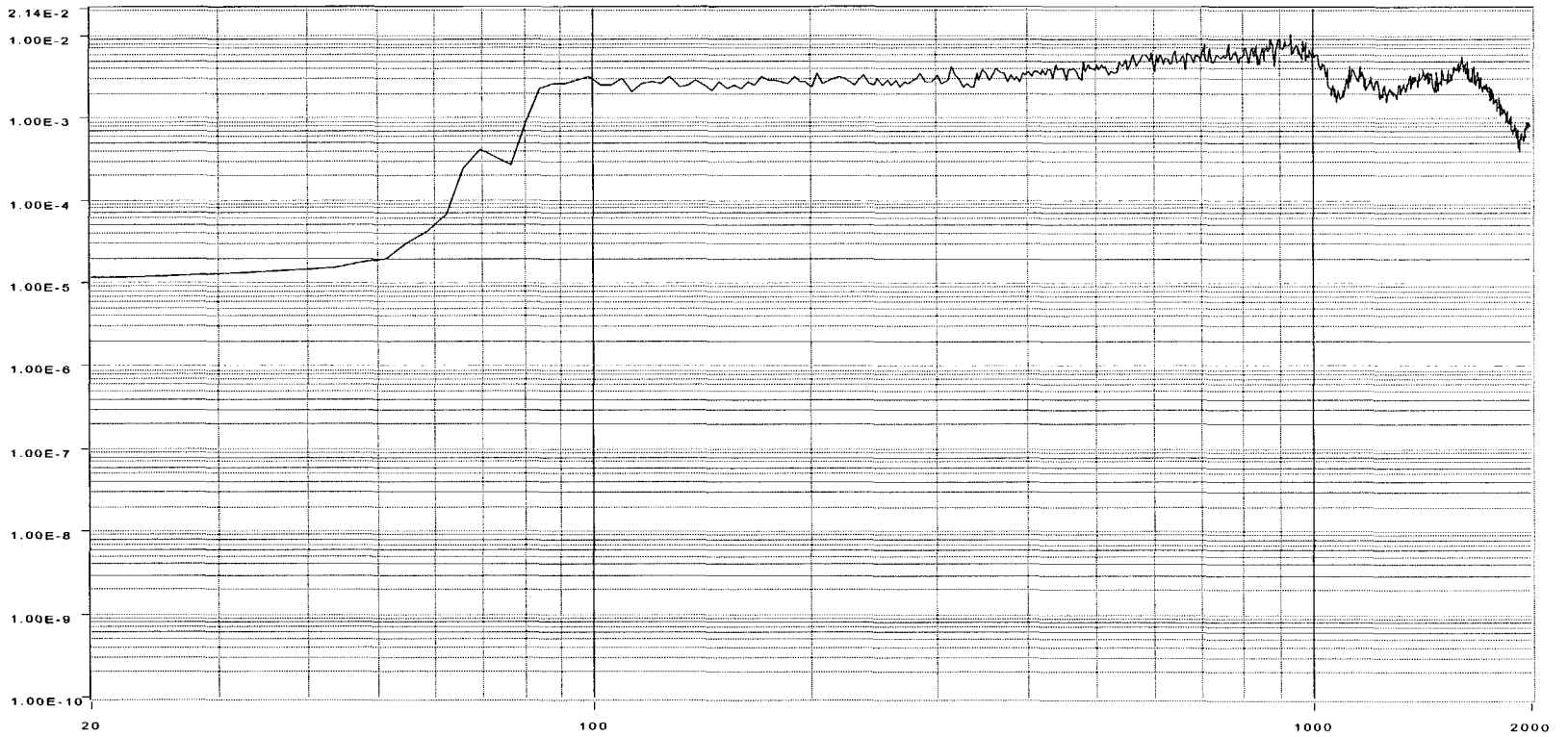
Channel #: 5 **Node Number:** 0005

Channel Label: South_Control_Y

Channel Description:

Start Time: 48.00

RMS= 2.595E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Y

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

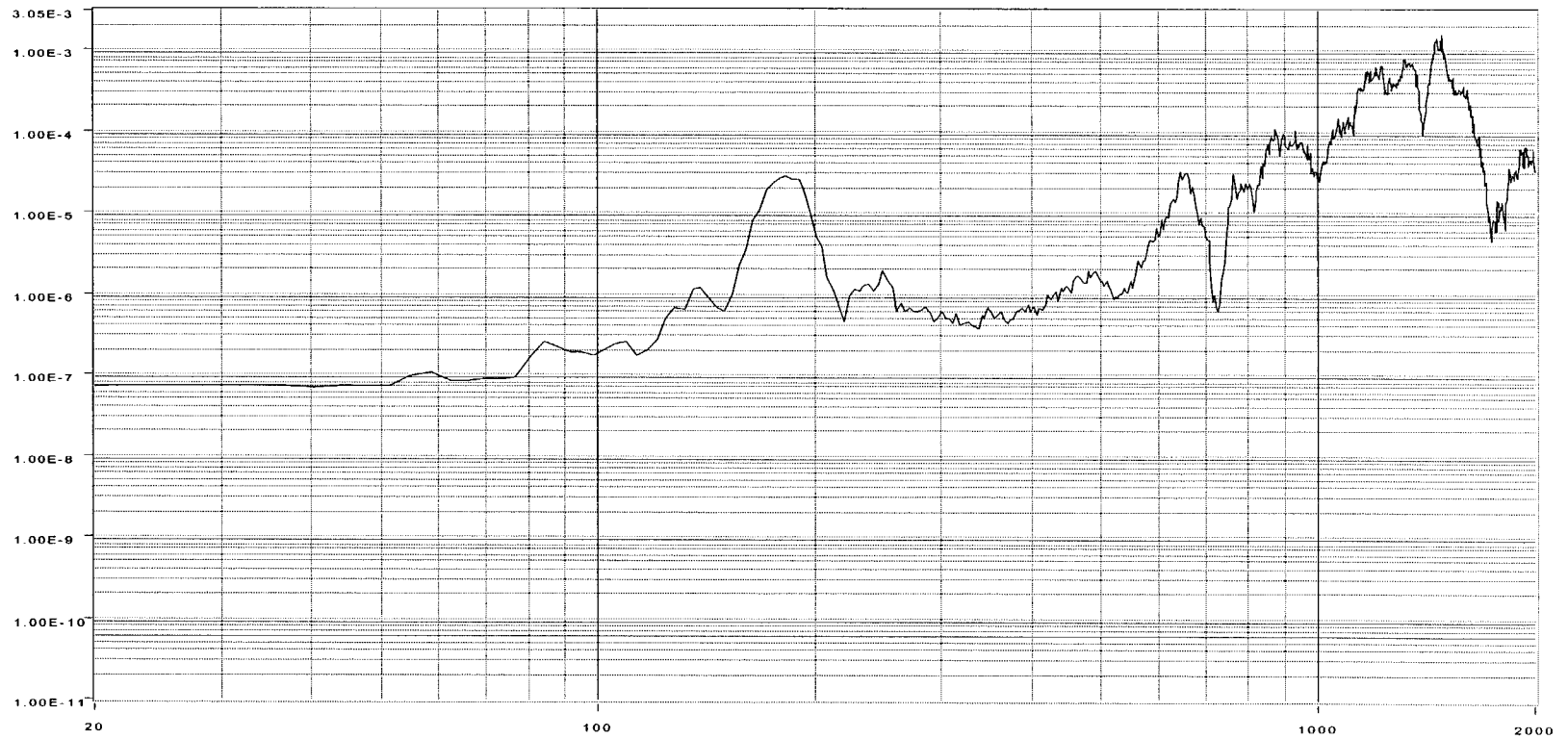
Channel #: 6 Node Number: 0006

Channel Label: South_Control_Z

Channel Description:

Start Time: 48.00

RMS= 5.332E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Z

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

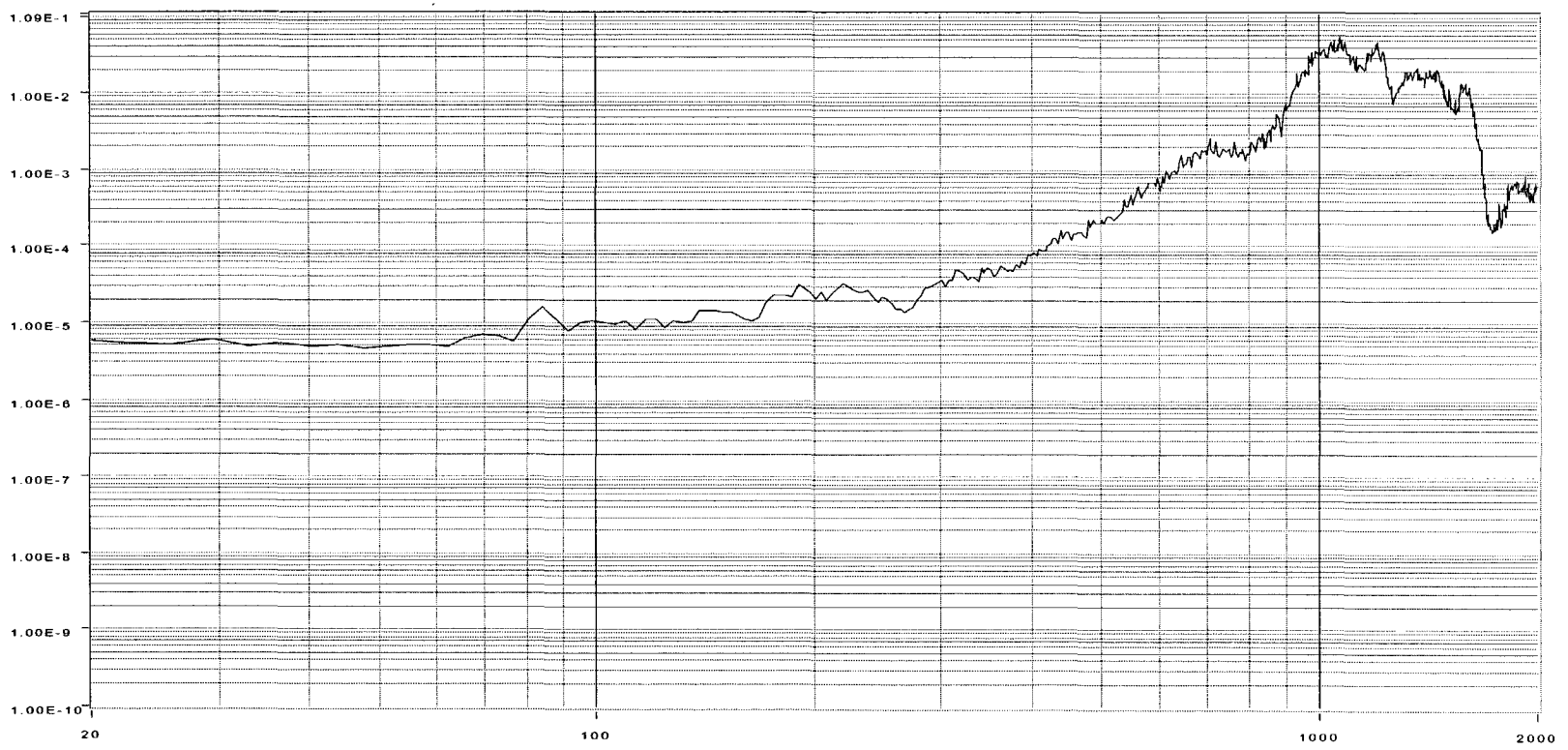
Channel #: 7 Node Number: 0007

Channel Label: A5 X

Channel Description:

Start Time: 48.00

RMS= 4.024E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

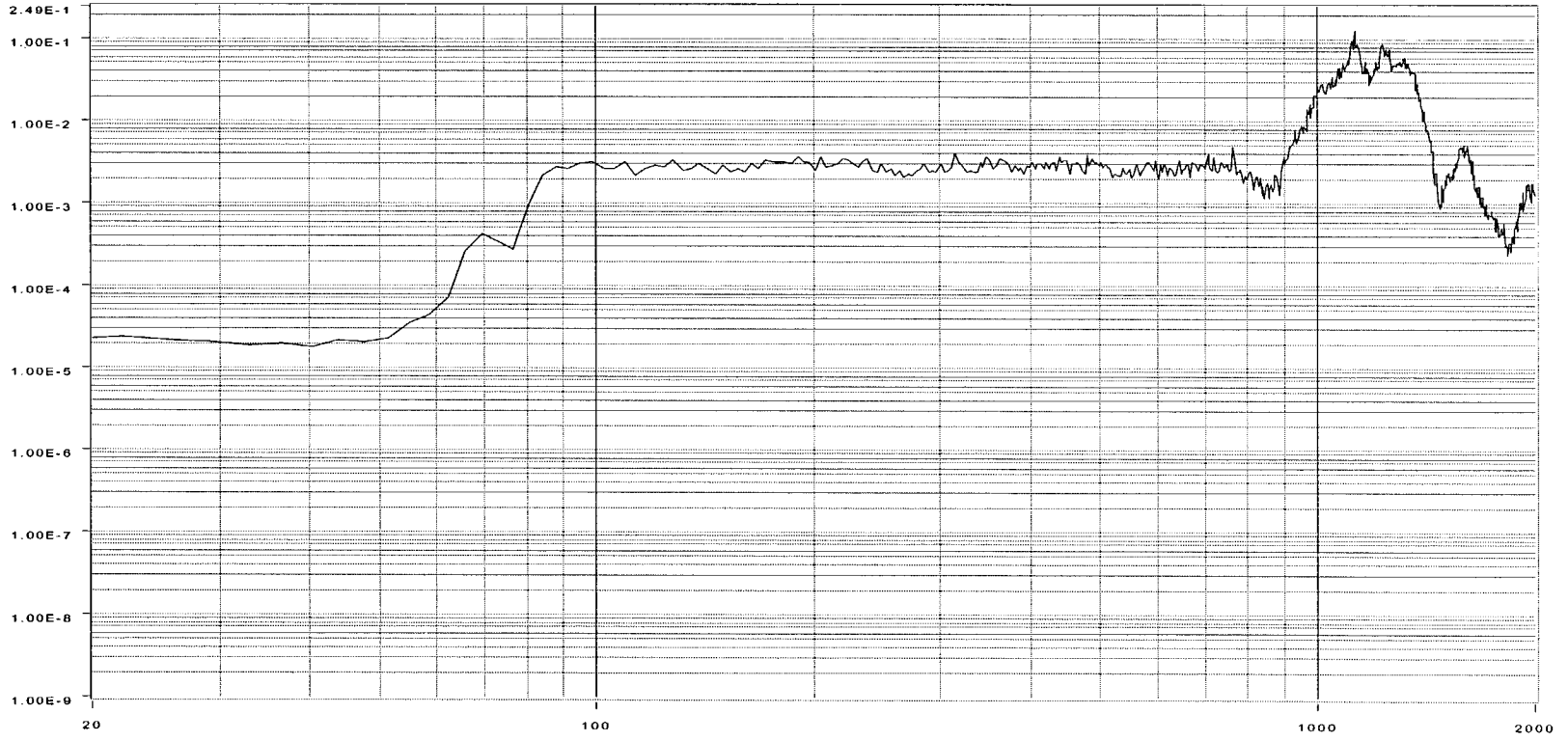
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 48.00

RMS= 4.778E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

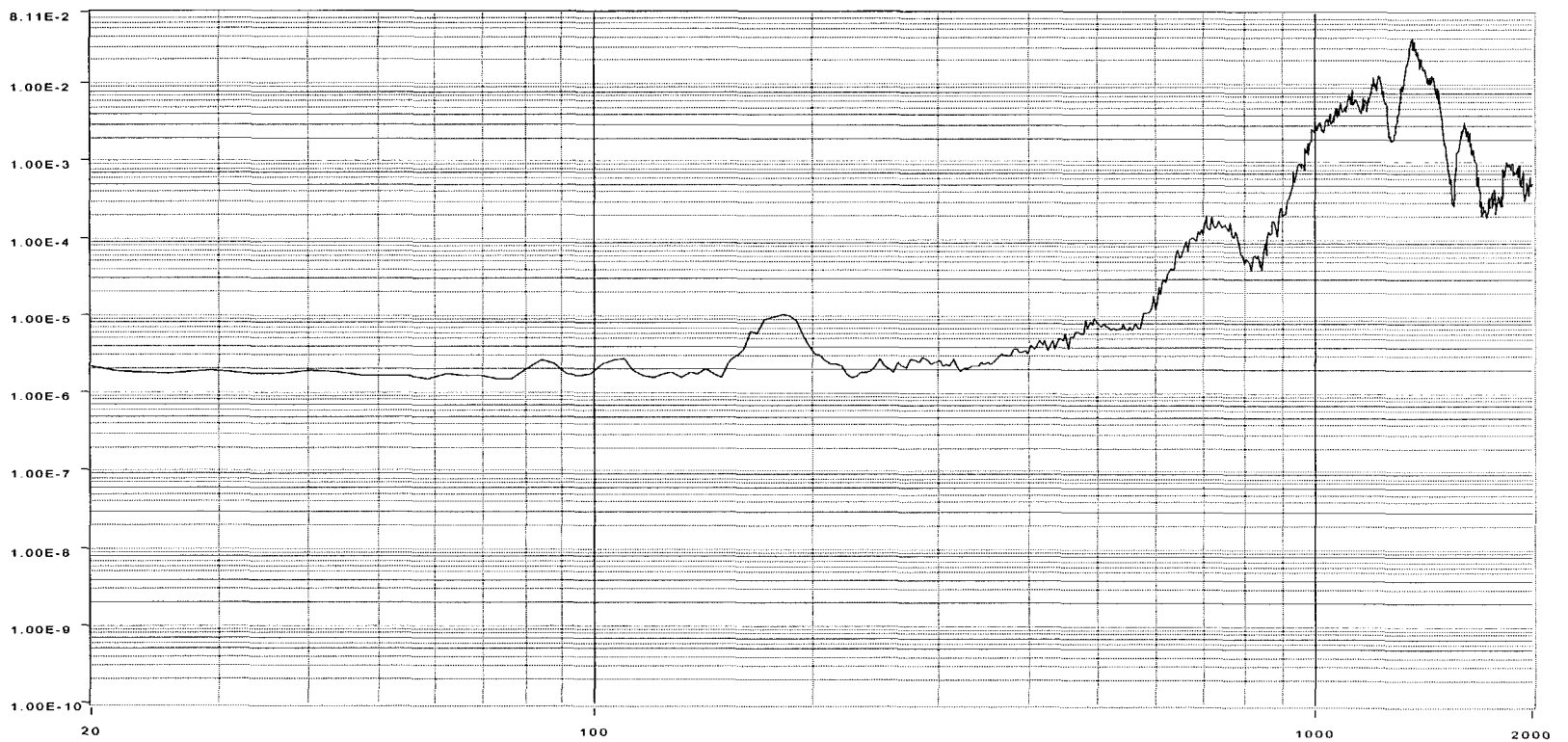
Channel #: 9 Node Number: 0009

Channel Label: A5 Z

Channel Description:

Start Time: 48.00

RMS= 2.303E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Z

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

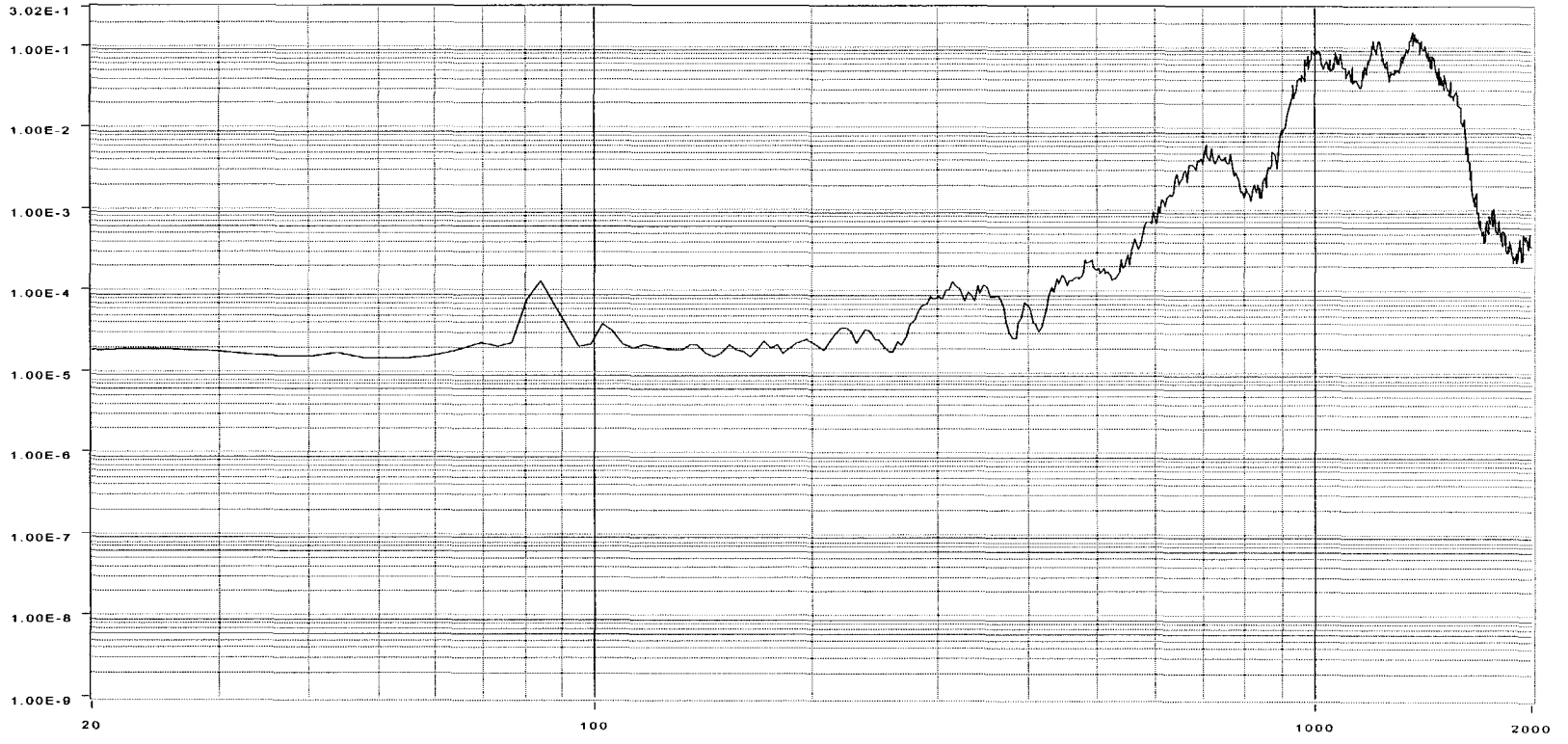
Channel #: 10 Node Number: 0010

Channel Label: A6 X

Channel Description:

Start Time: 48.00

RMS= 6.618E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

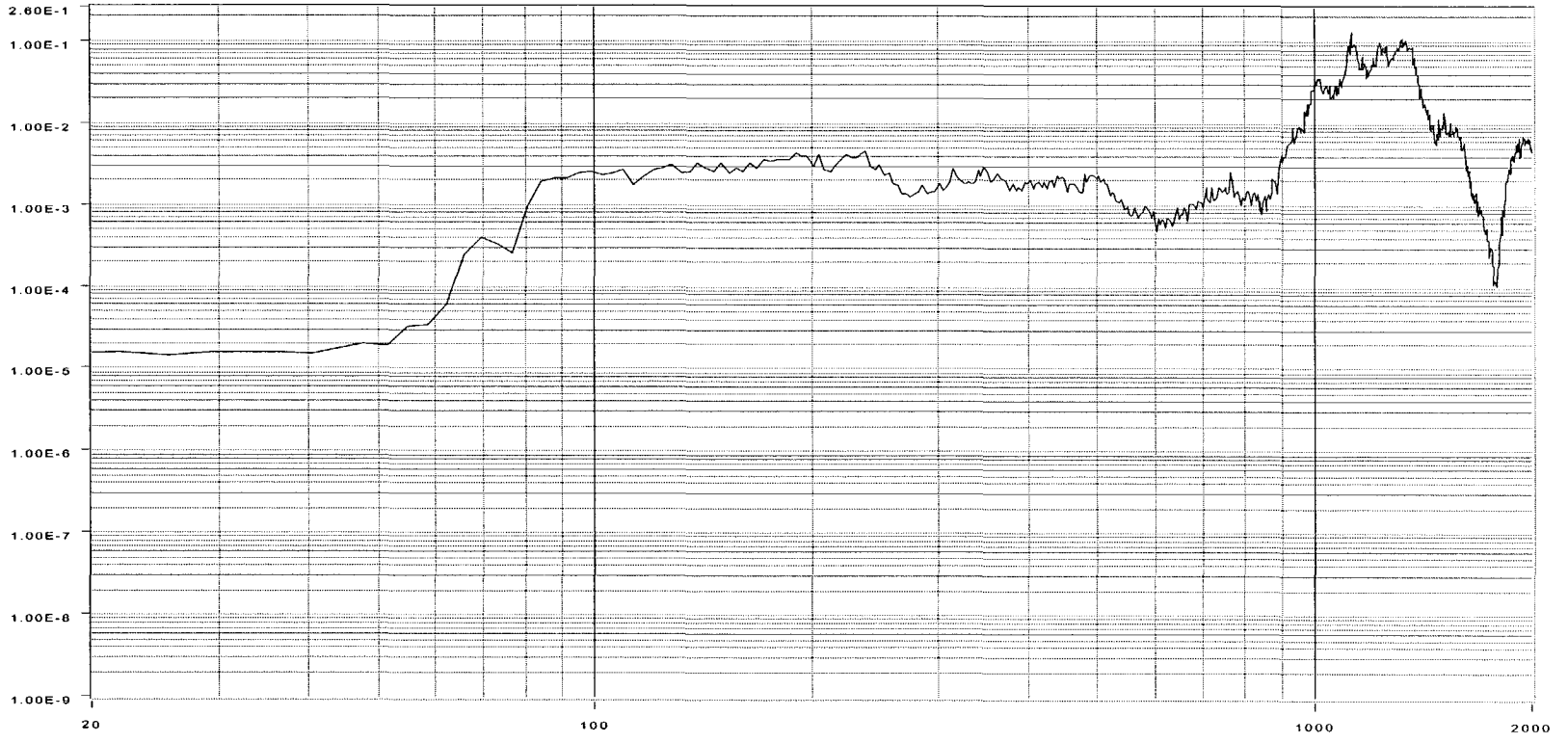
Channel #: 11 **Node Number:** 0011

Channel Label: A6 Y

Channel Description:

Start Time: 48.00

RMS= 5.407E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

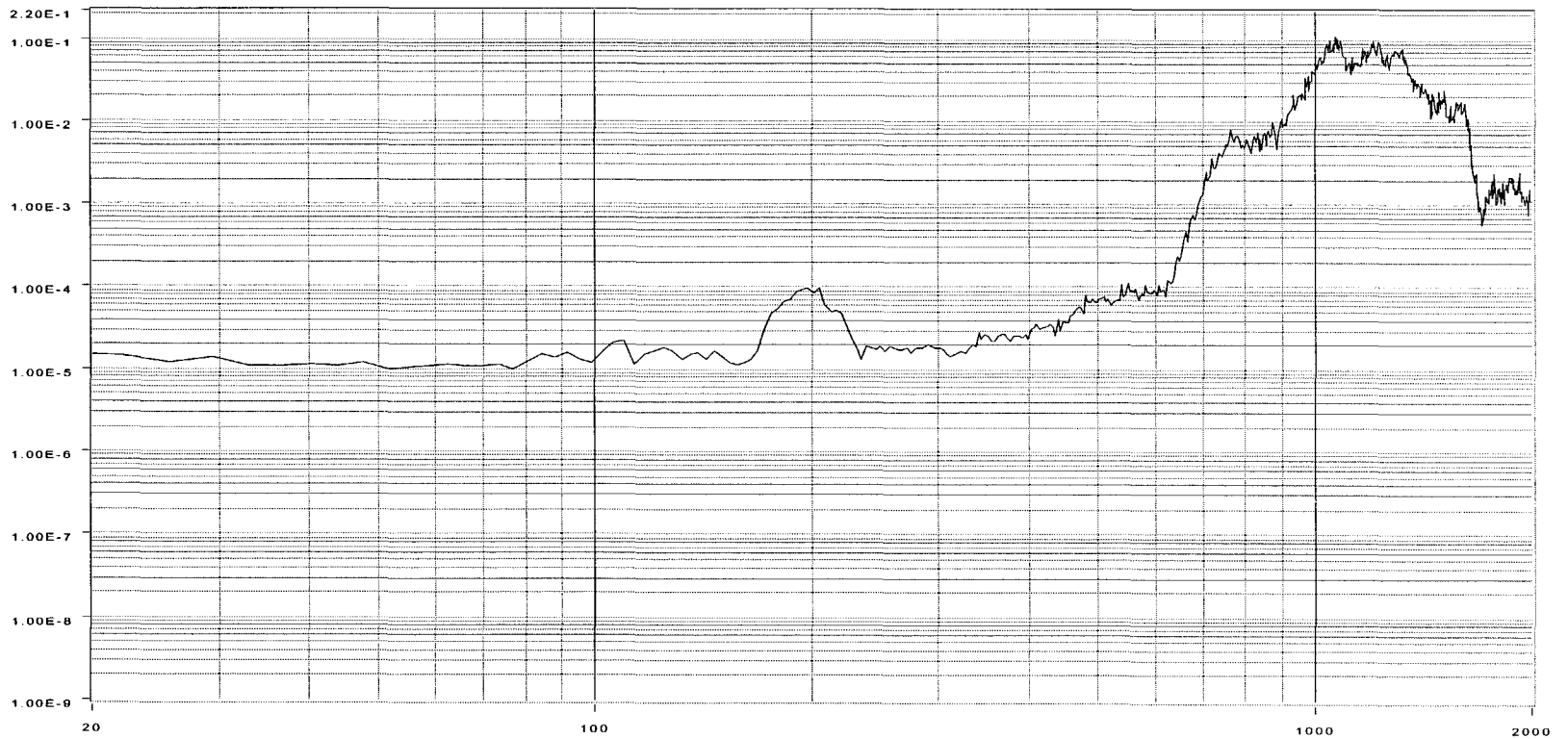
Channel #: 12 Node Number: 0012

Channel Label: A6 Z

Channel Description:

Start Time: 48.00

RMS= 5.621E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/24/02 7:40 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

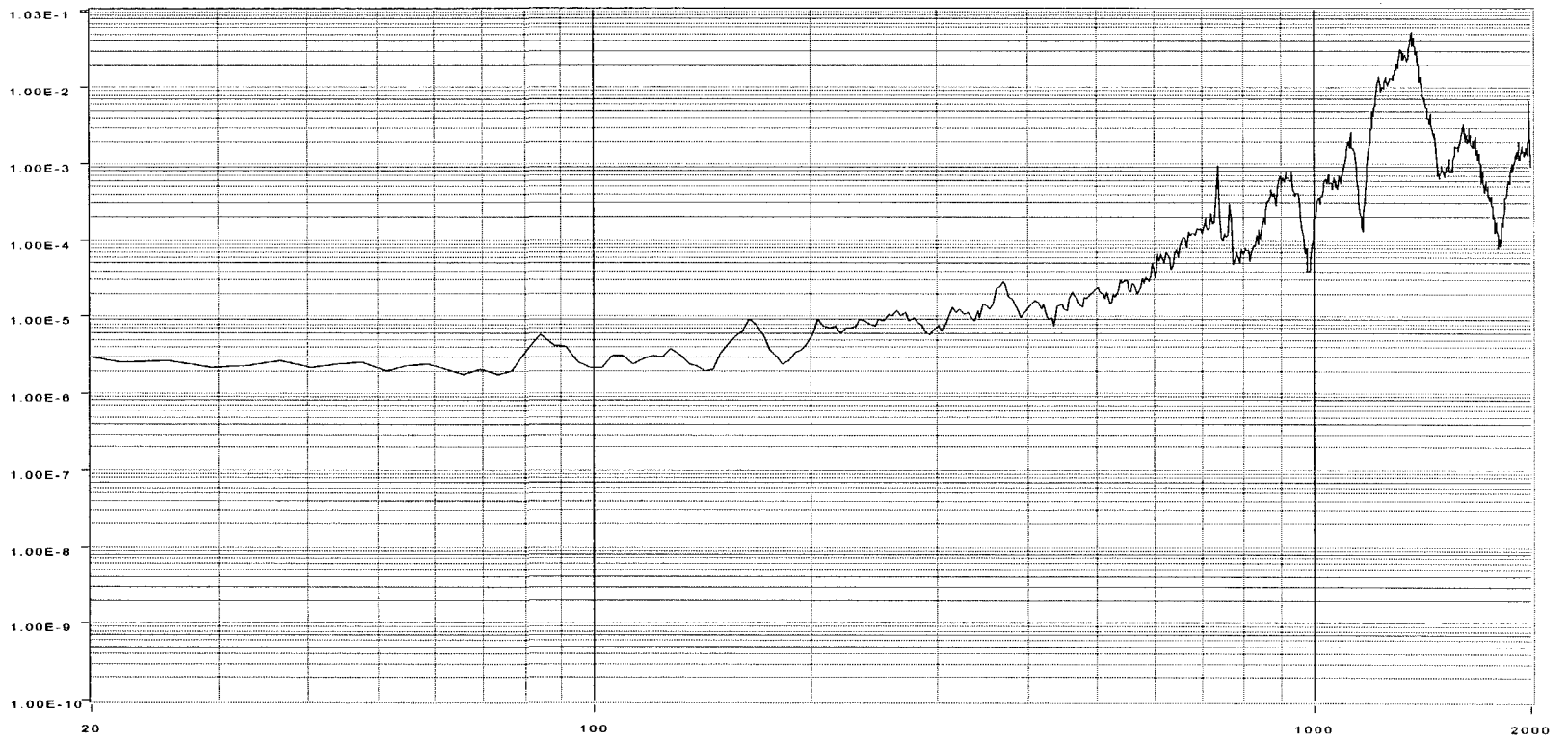
Channel #: 17 Node Number: 0017

Channel Label: A7 X

Channel Description:

Start Time: 48.00

RMS= 2.286E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

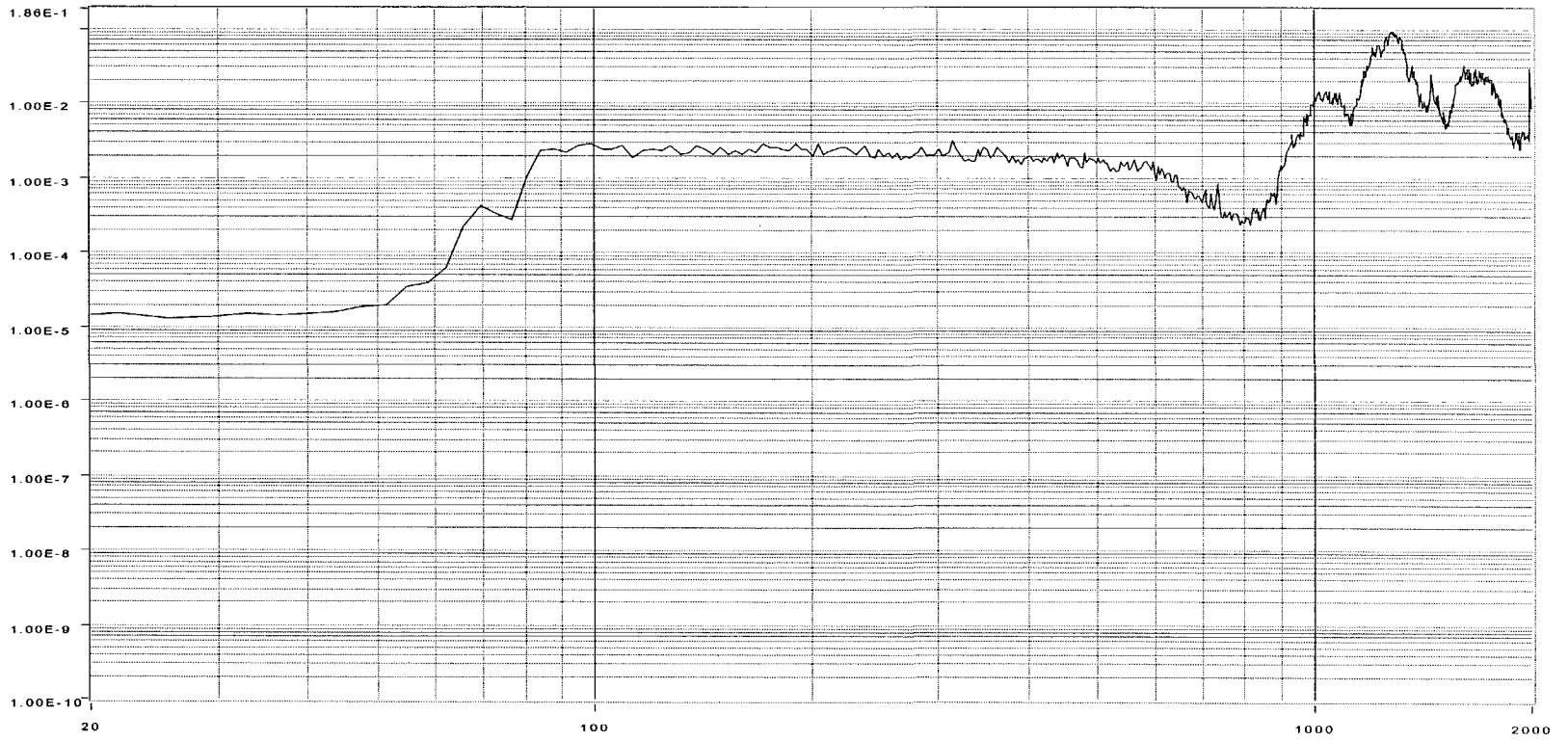
Channel #: 18 Node Number: 0018

Channel Label: A7 Y

Channel Description:

Start Time: 48.00

RMS= 4.710E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

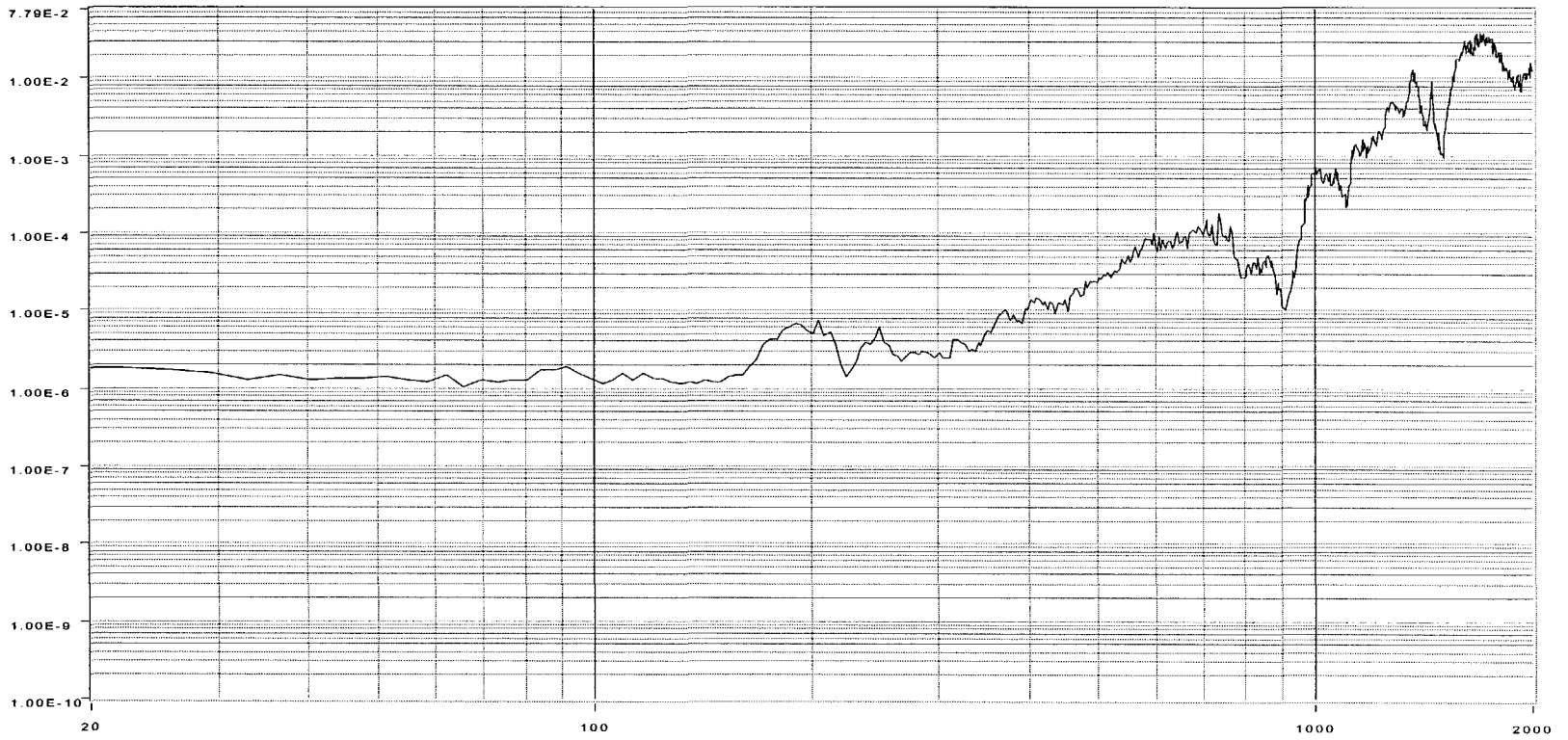
Channel #: 19 **Node Number:** 0019

Channel Label: A7 Z

Channel Description:

Start Time: 48.00

RMS= 3.204E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

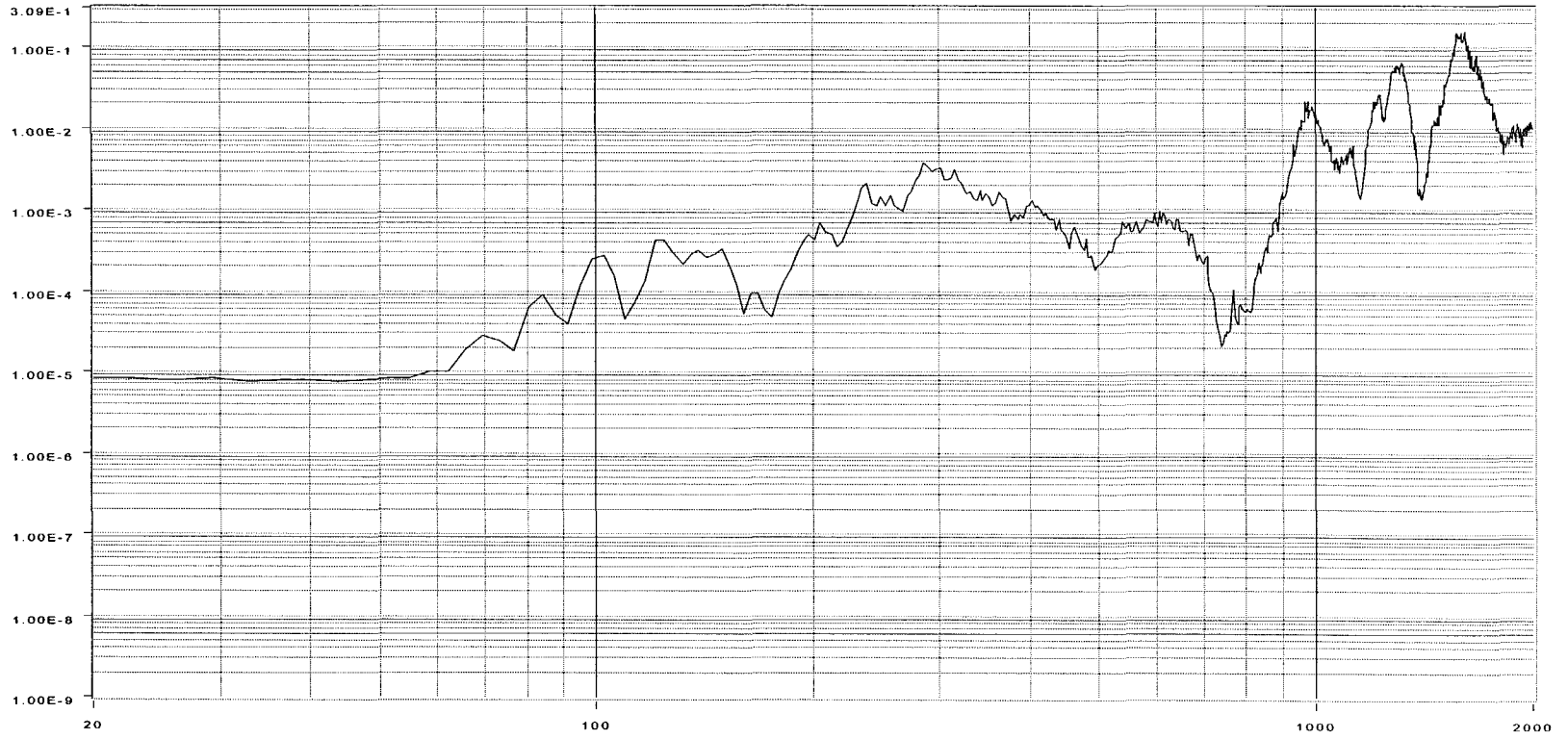
Channel #: 20 **Node Number:** 0020

Channel Label: A8 X

Channel Description:

Start Time: 48.00

RMS= 5.332E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

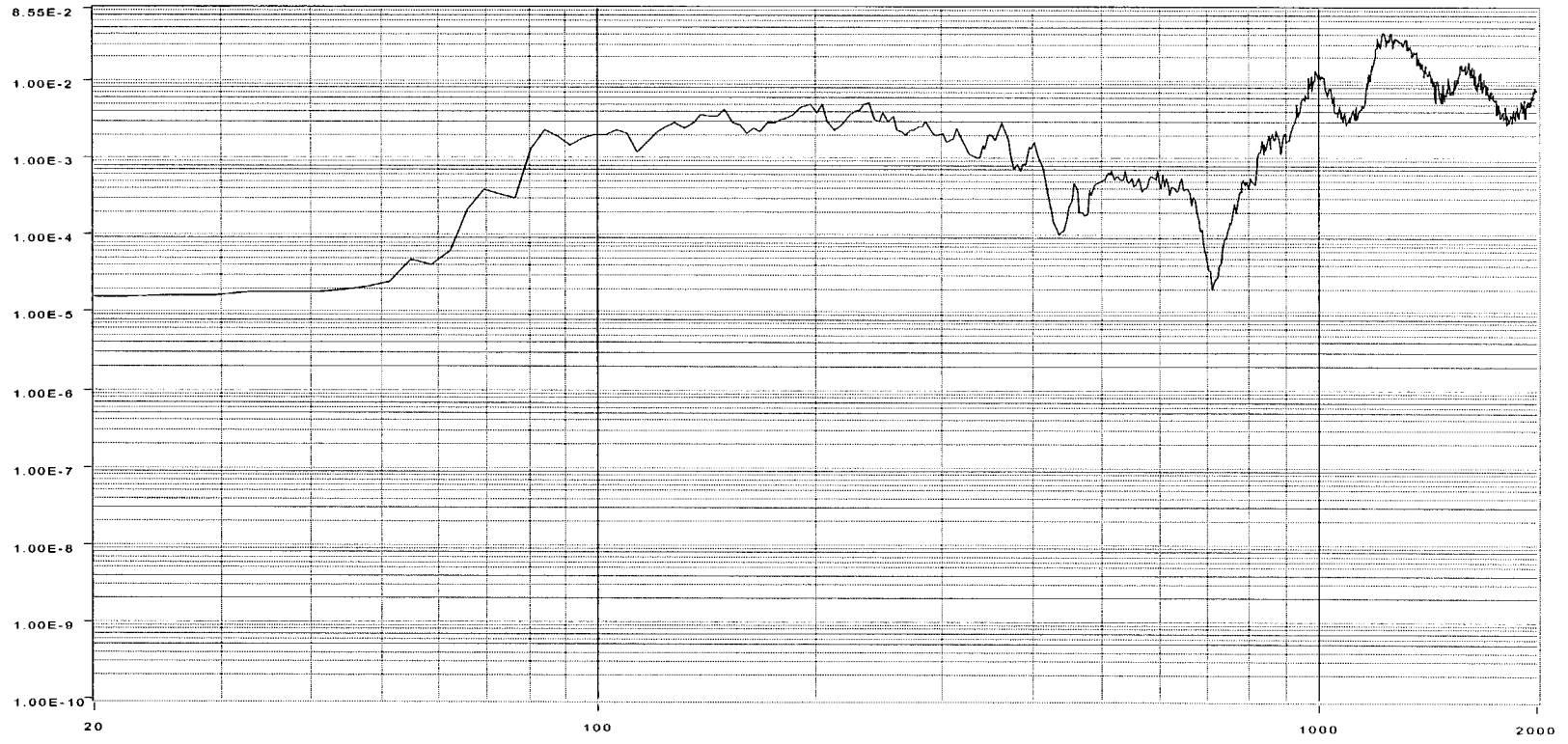
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 48.00

RMS= 3.631E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

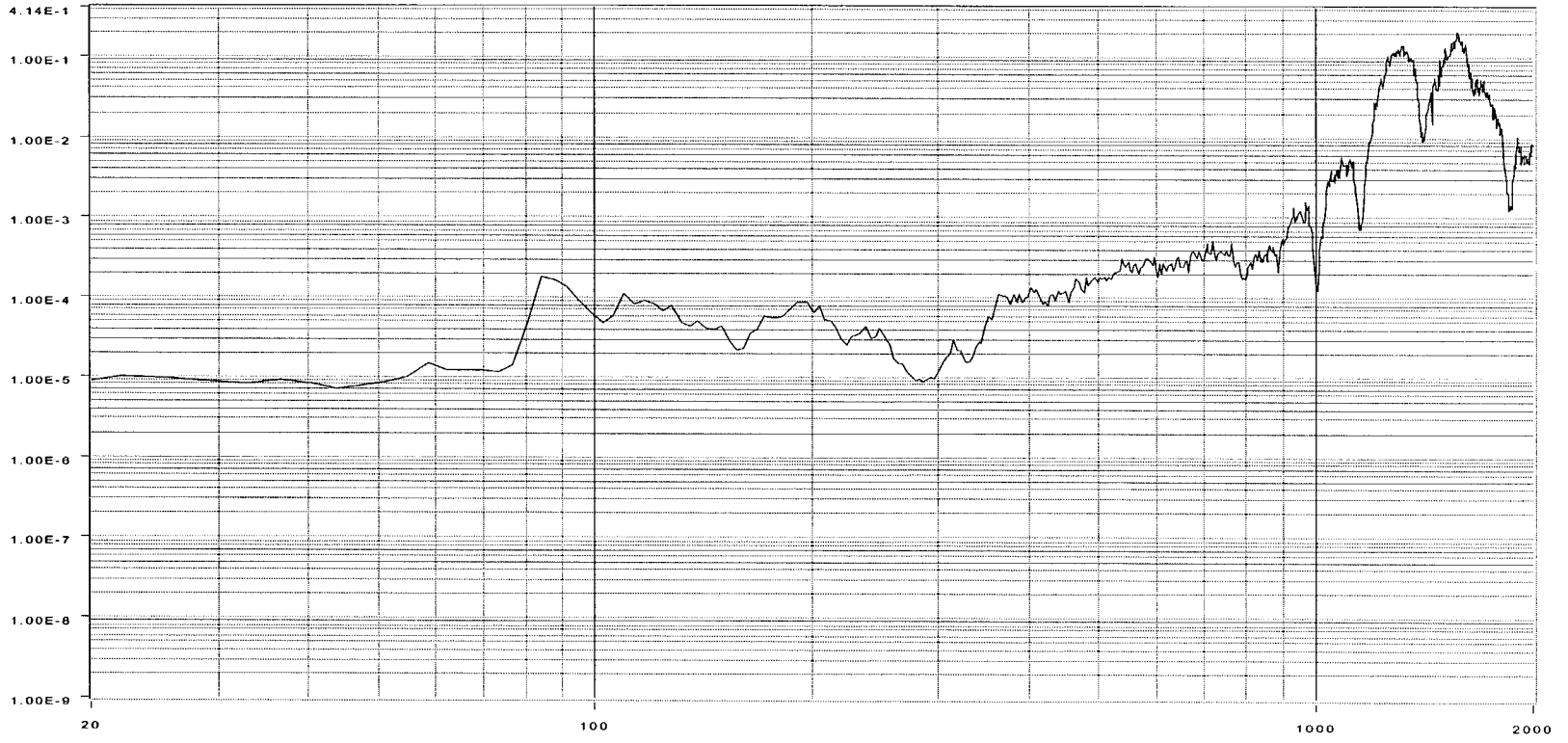
Channel #: 22 Node Number: 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 48.00

RMS= 6.647E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

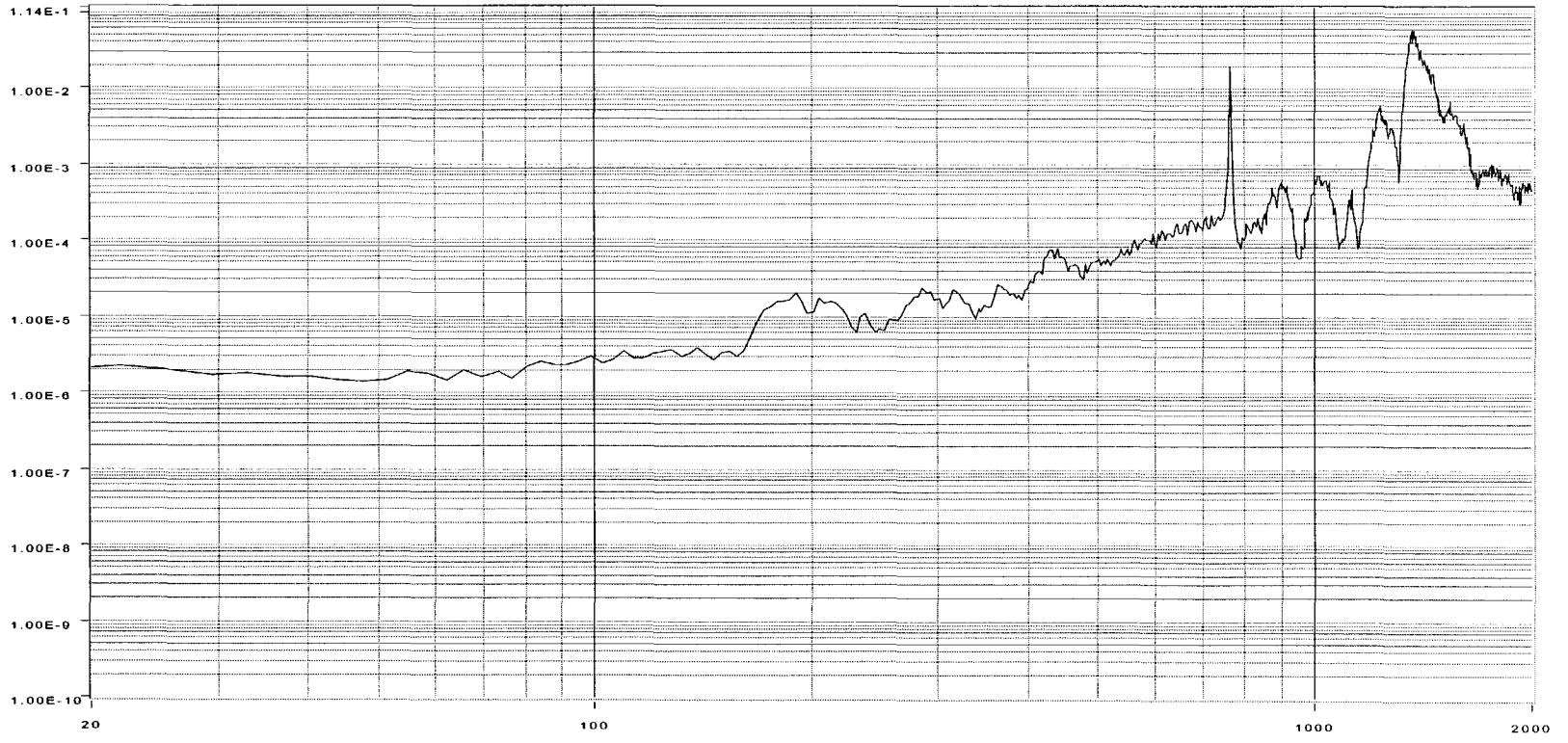
Channel #: 23 Node Number: 0023

Channel Label: A9 X

Channel Description:

Start Time: 48.00

RMS= 2.339E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

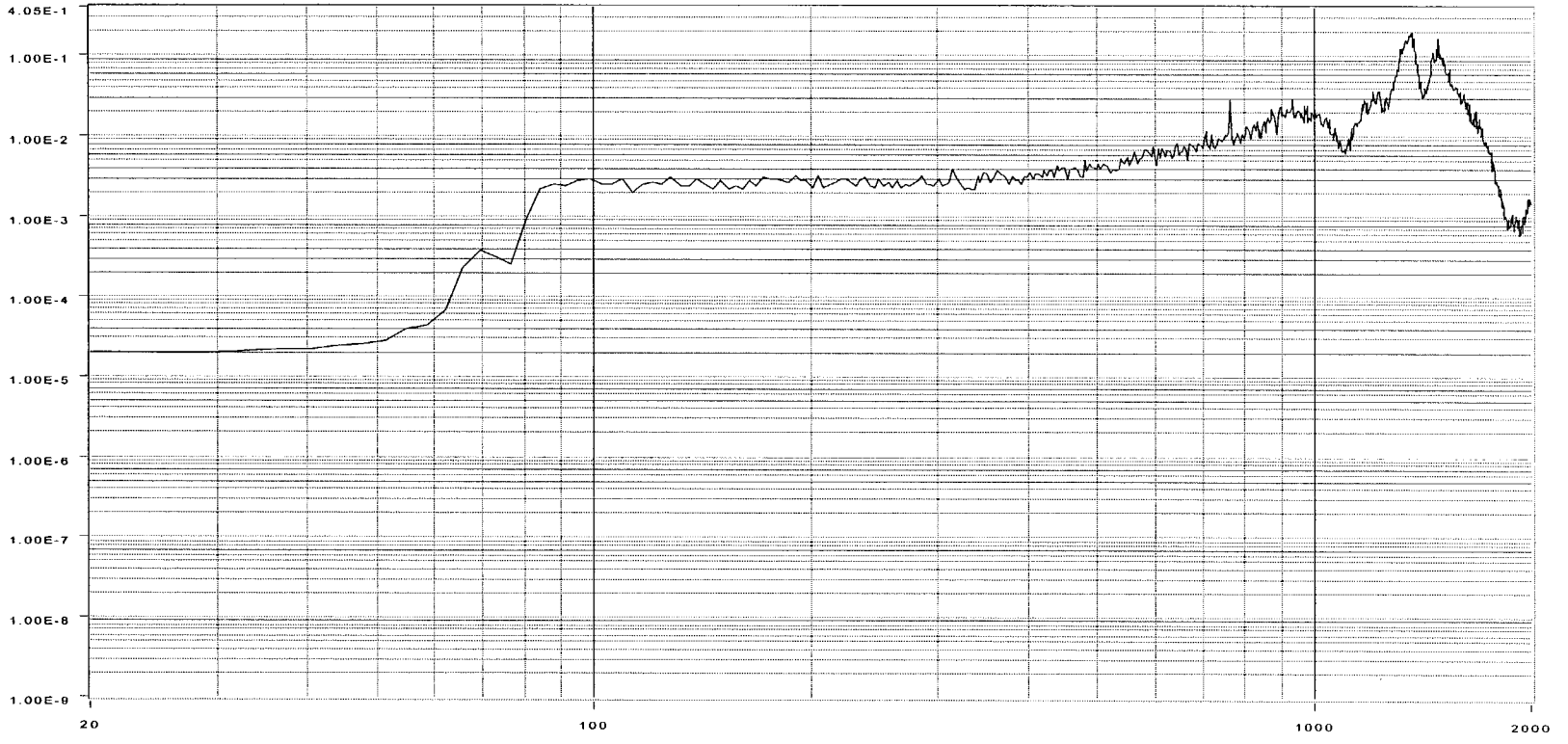
Channel #: 24 Node Number: 0024

Channel Label: A9 Y

Channel Description:

Start Time: 48.00

RMS= 6.378E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

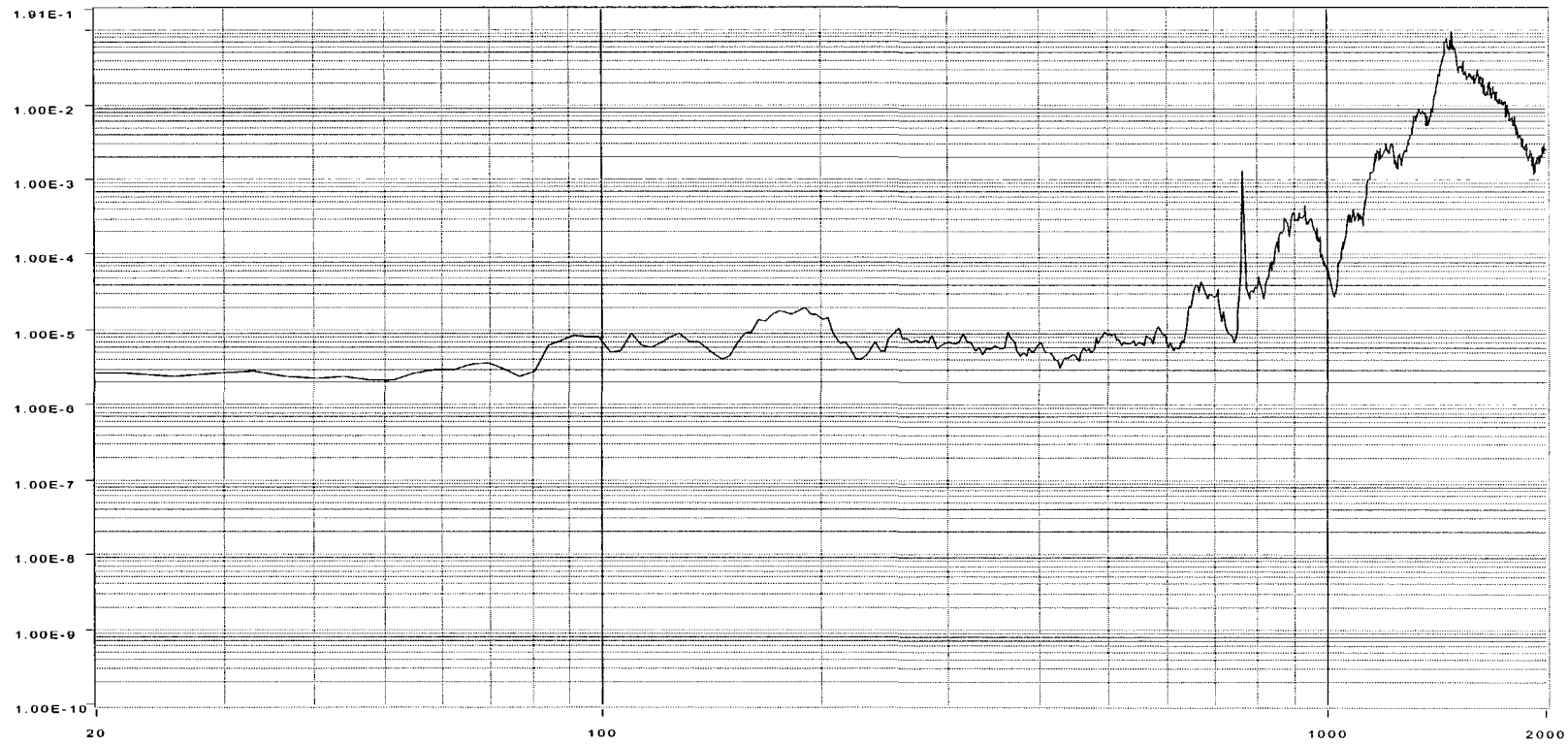
Channel #: 25 **Node Number: 0025**

Channel Label: A9 Z

Channel Description:

Start Time: 48.00

RMS= 3.457E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

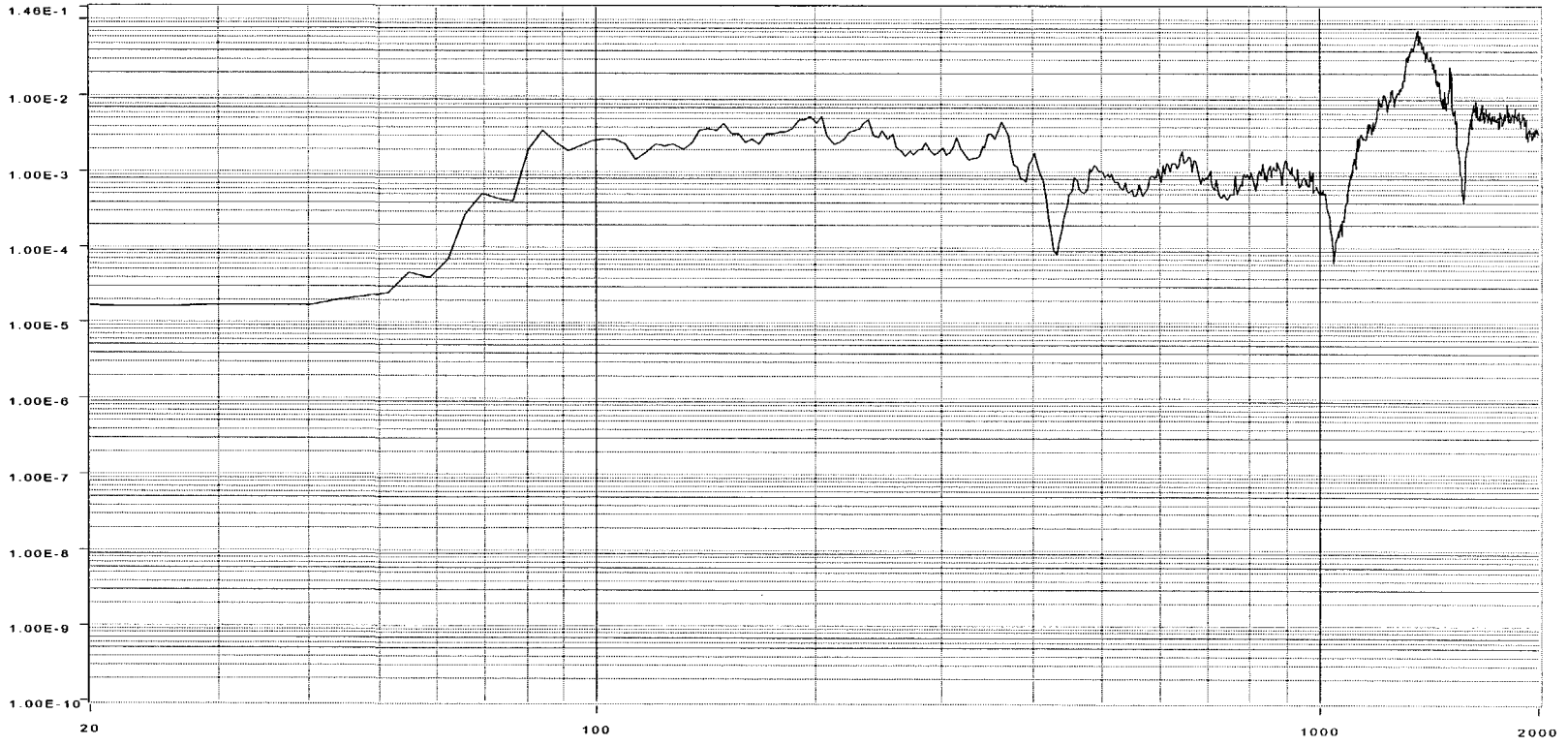
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 48.00

RMS= 3.350E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

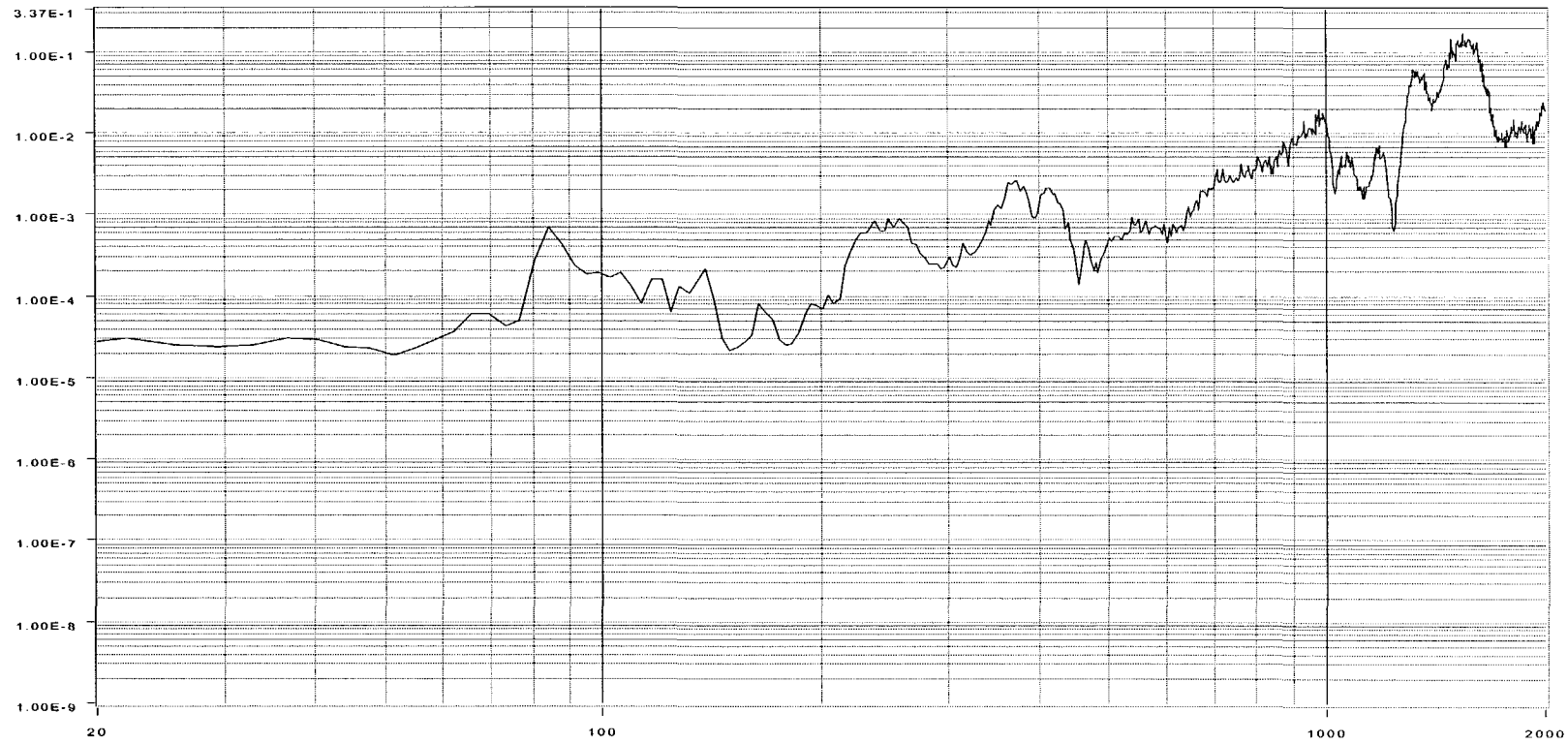
Channel #: 27 Node Number: 0027

Channel Label: A10 Y

Channel Description:

Start Time: 48.00

RMS= 5.921E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

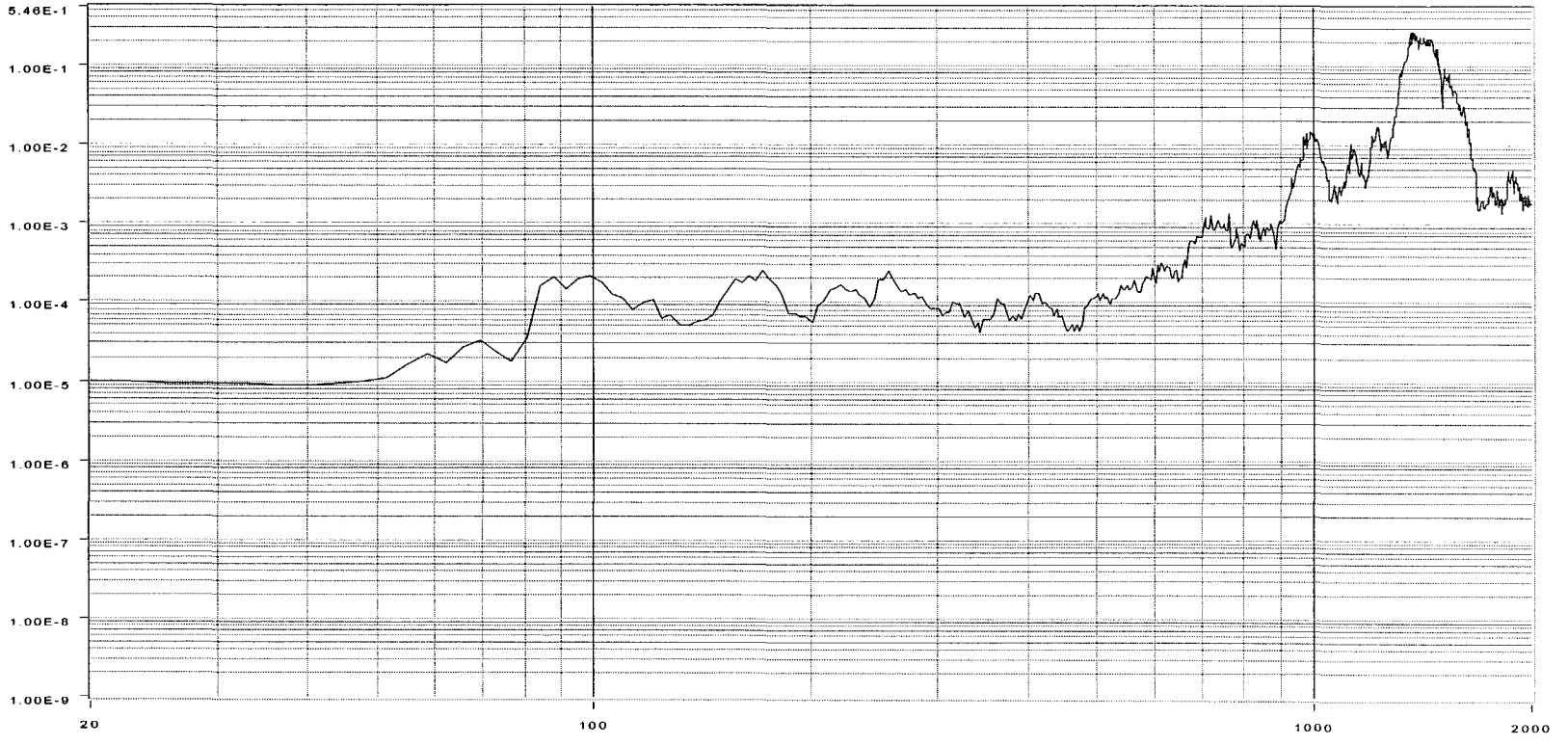
Channel #: 28 Node Number: 0028

Channel Label: A10 Z

Channel Description:

Start Time: 48.00

RMS= 6.575E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

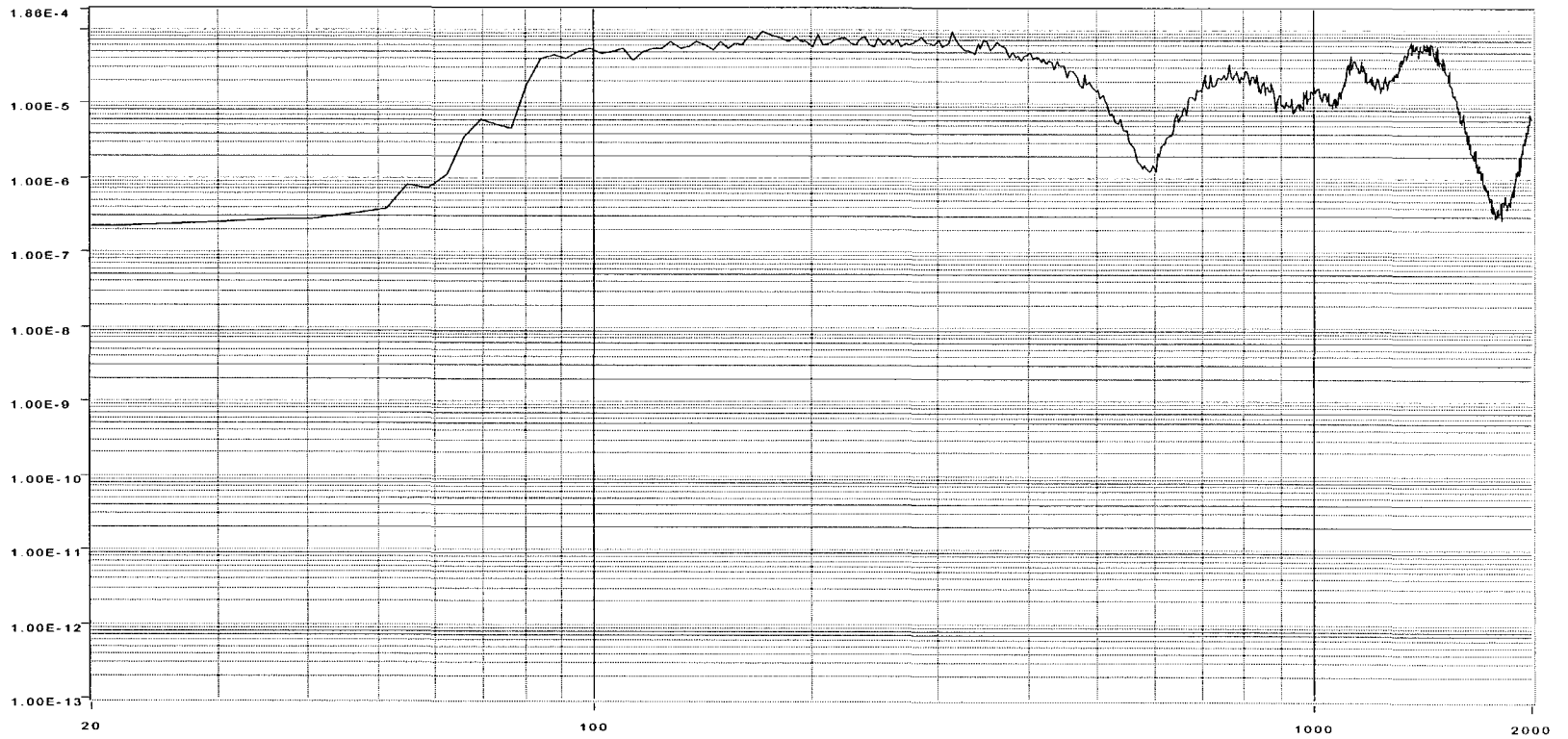
Channel #: 31 **Node Number:** 0031

Channel Label: DRIVE

Channel Description:

Start Time: 48.00

RMS= 2.179E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

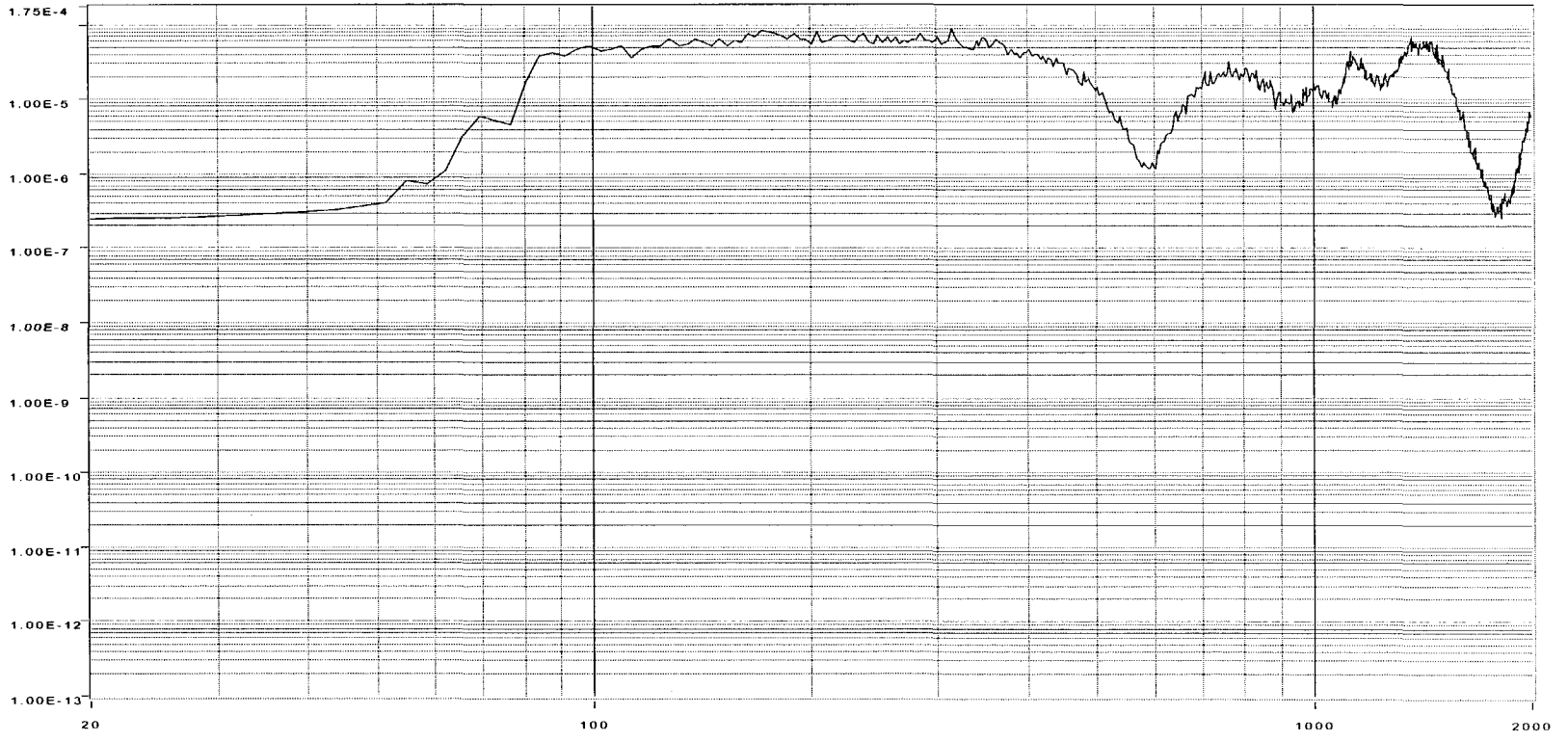
Channel #: 32 Node Number: 0032

Channel Label: COLA

Channel Description:

Start Time: 48.00

RMS= 2.119E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

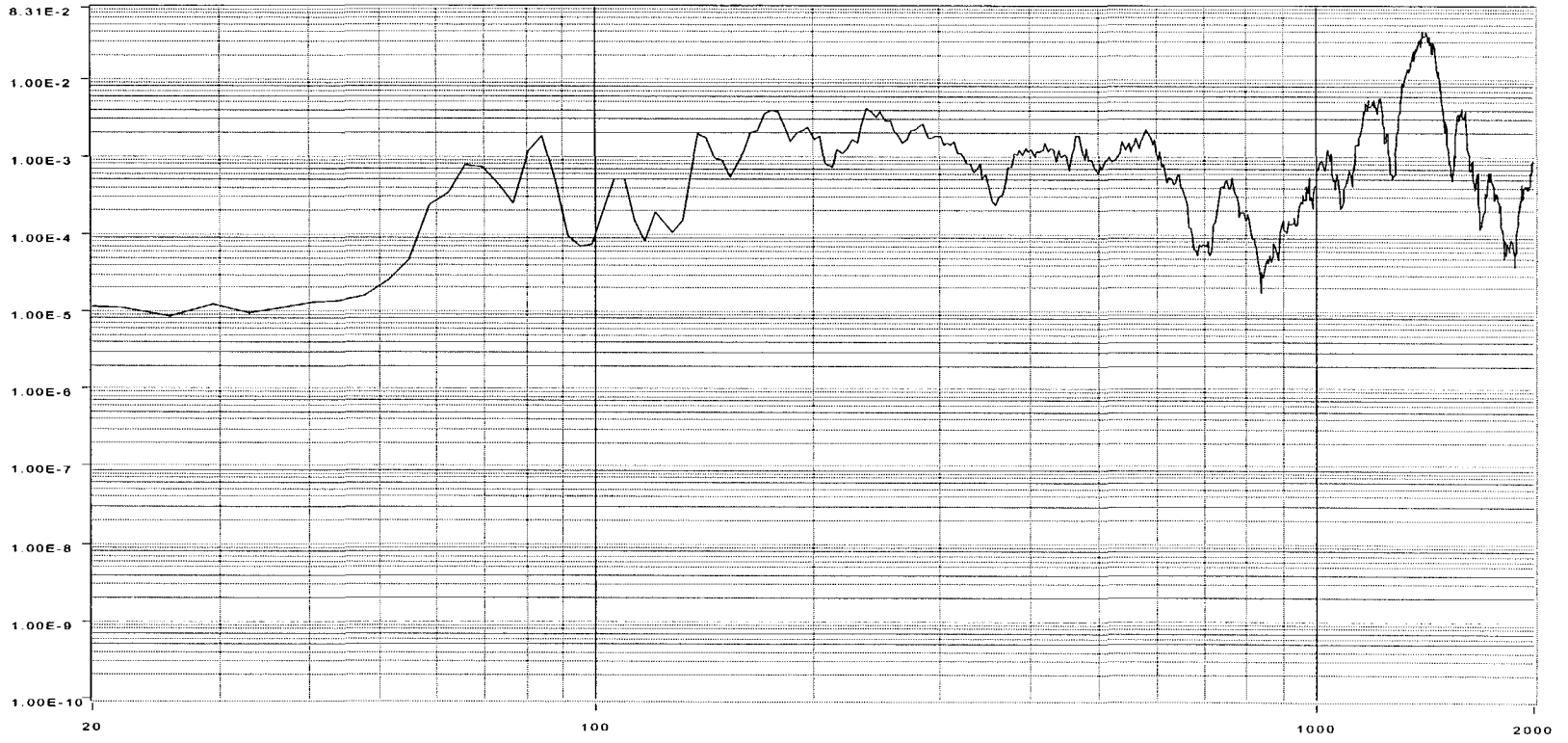
Channel #: 33 Node Number: 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 48.00

RMS= 2.385E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

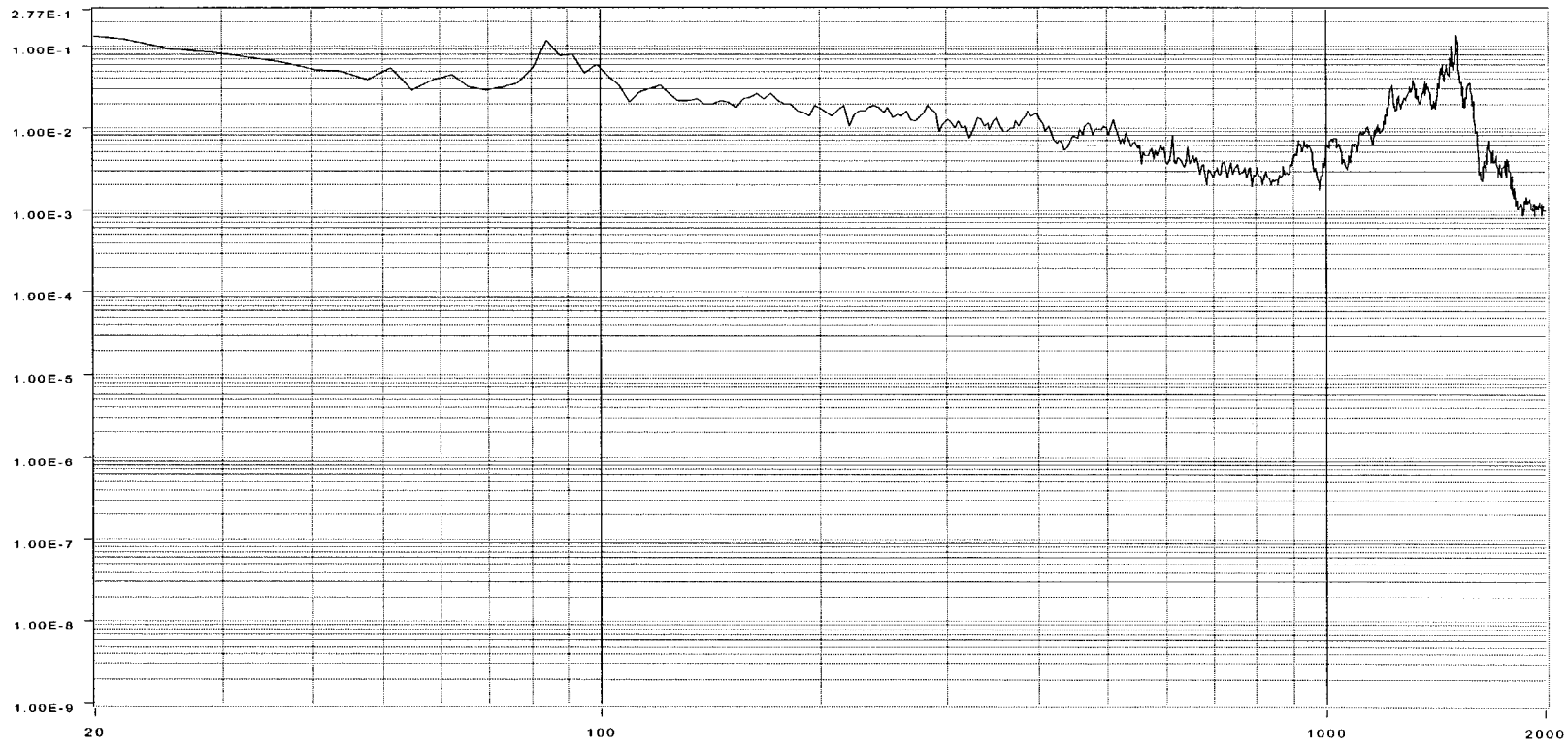
Channel #: 34 Node Number: 0034

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 48.00

RMS= 5.359E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

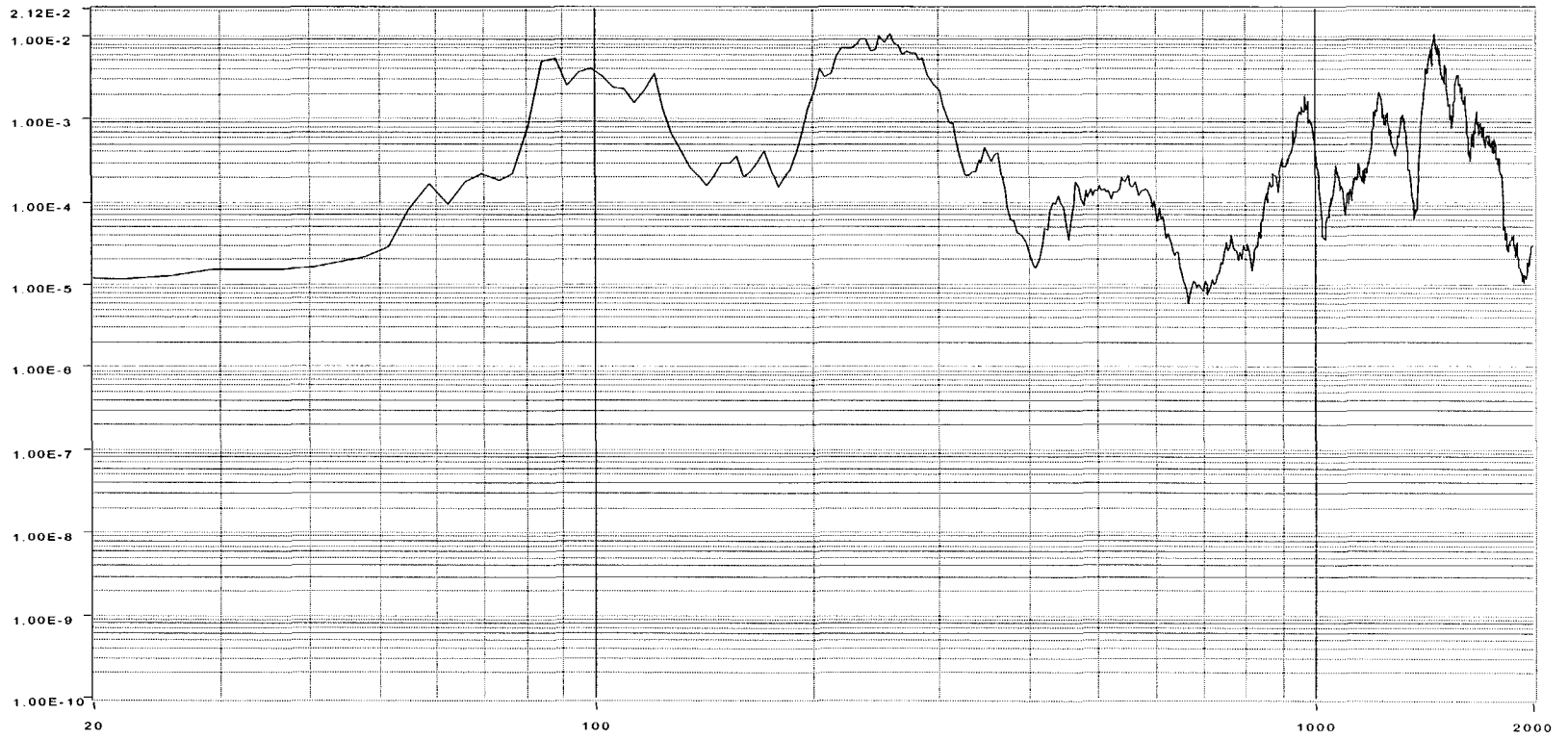
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 48.00

RMS= 1.404E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

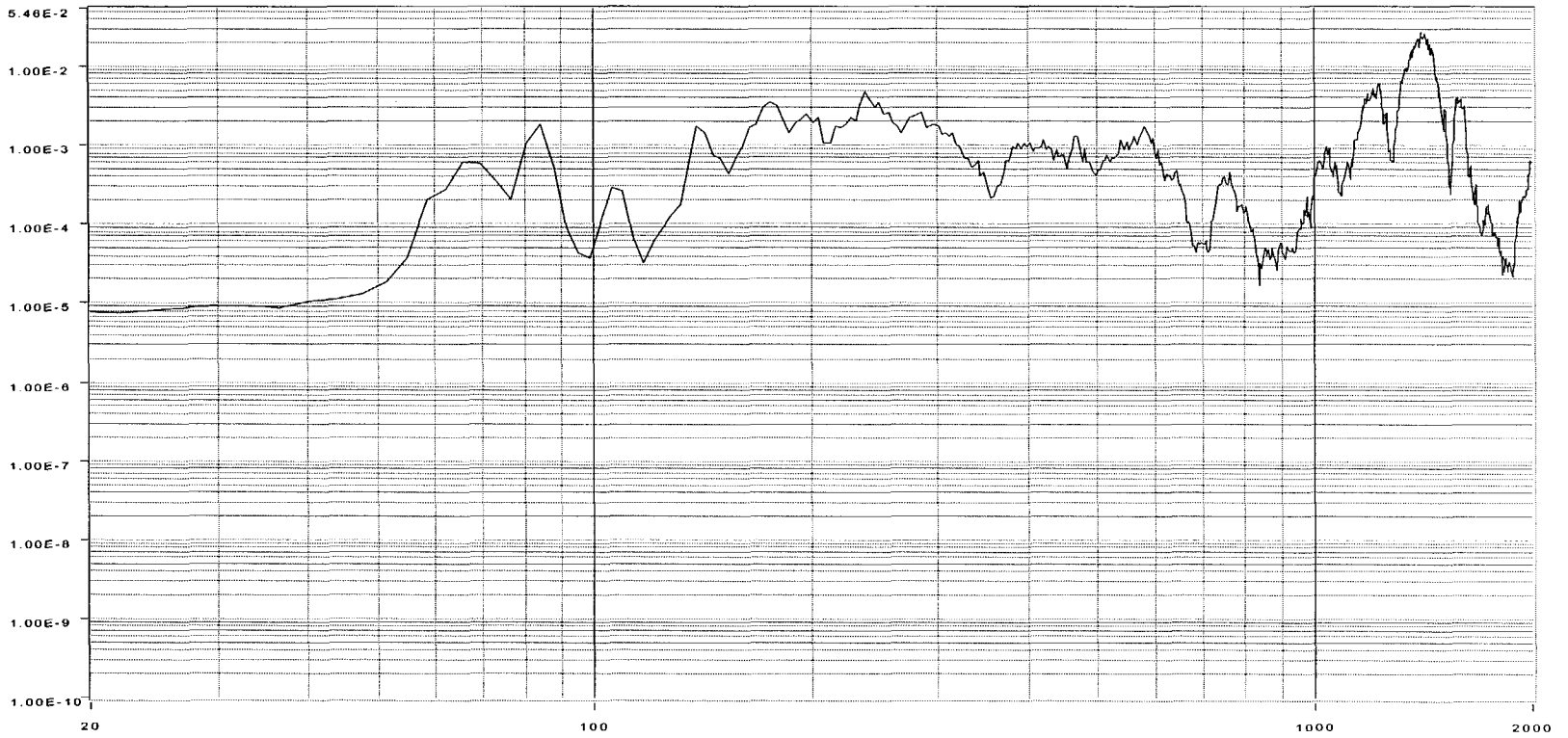
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 48.00

RMS= 2.053E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

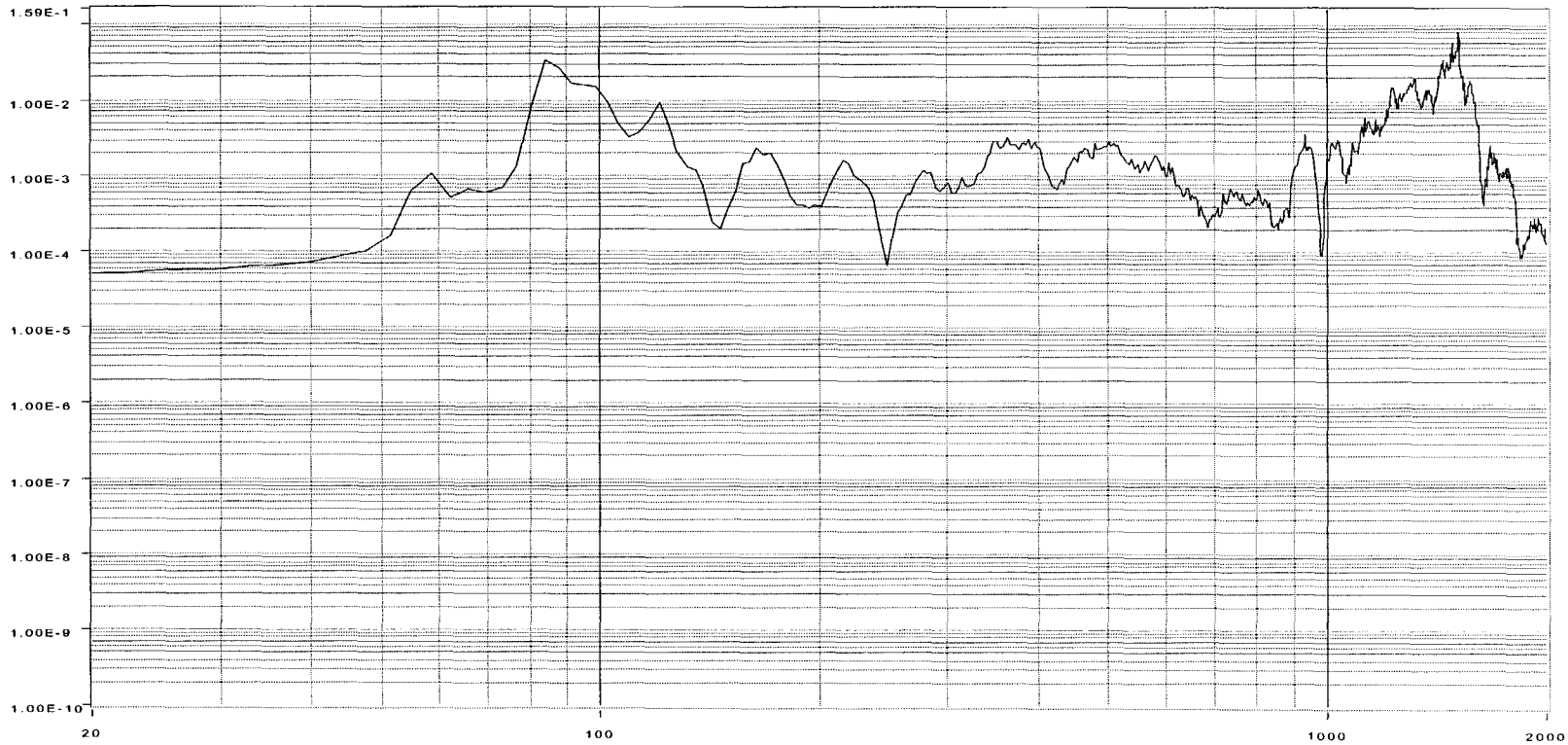
Channel #: 37 Node Number: 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 48.00

RMS= 3.133E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

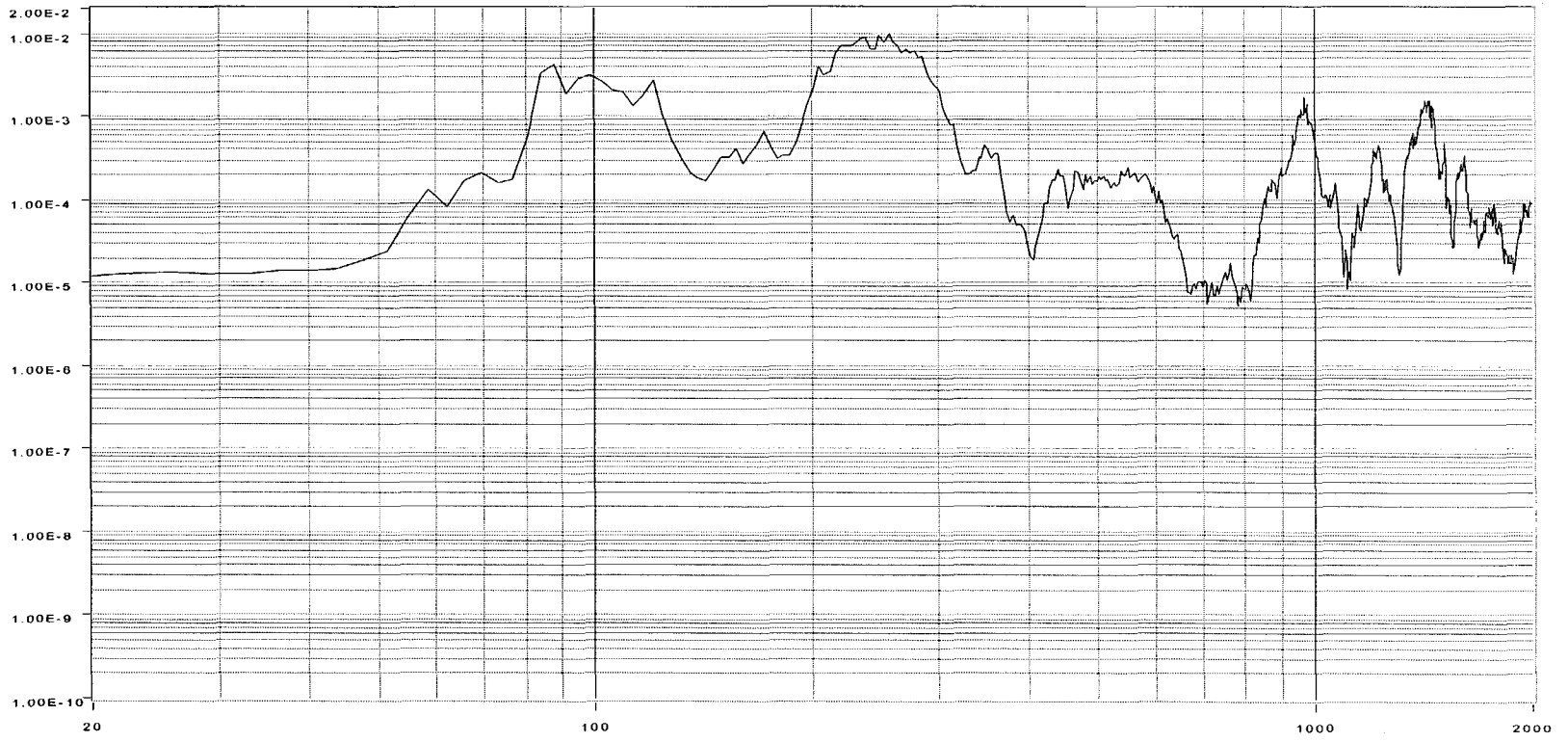
Channel #: 38 Node Number: 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 48.00

RMS= 1.046E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

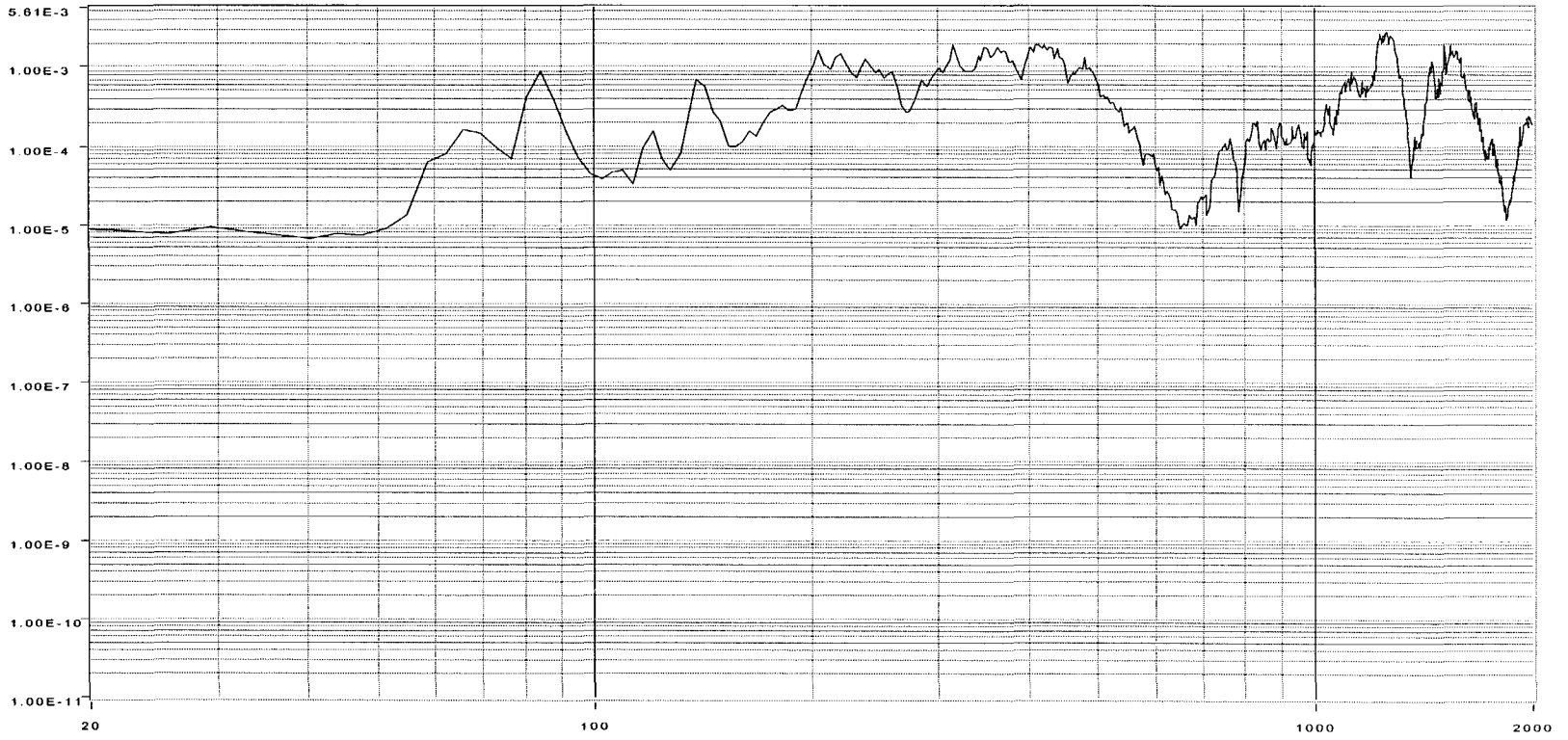
Channel #: 39 Node Number: 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 48.00

RMS= 9.856E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

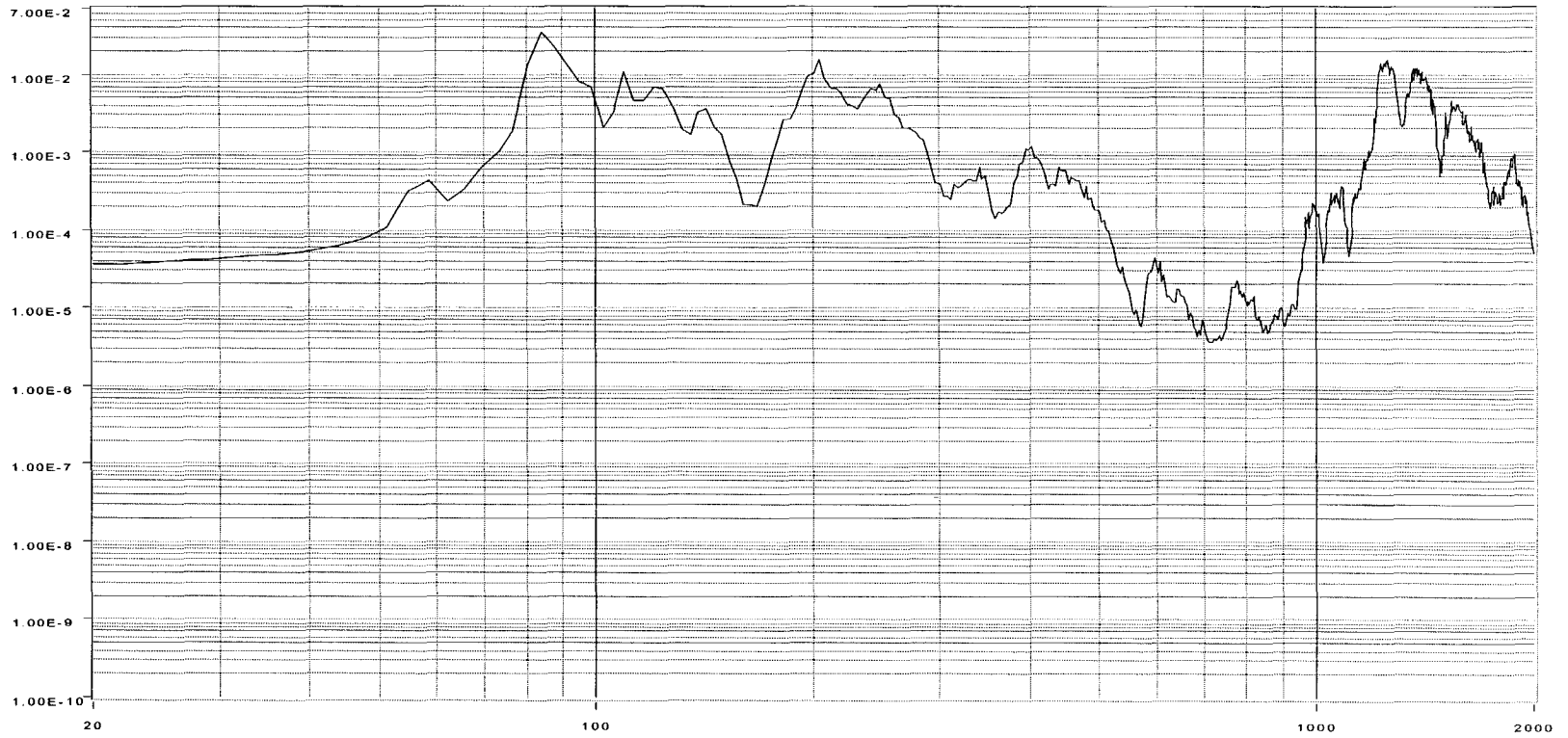
Channel #: 40 Node Number: 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 48.00

RMS= 1.986E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

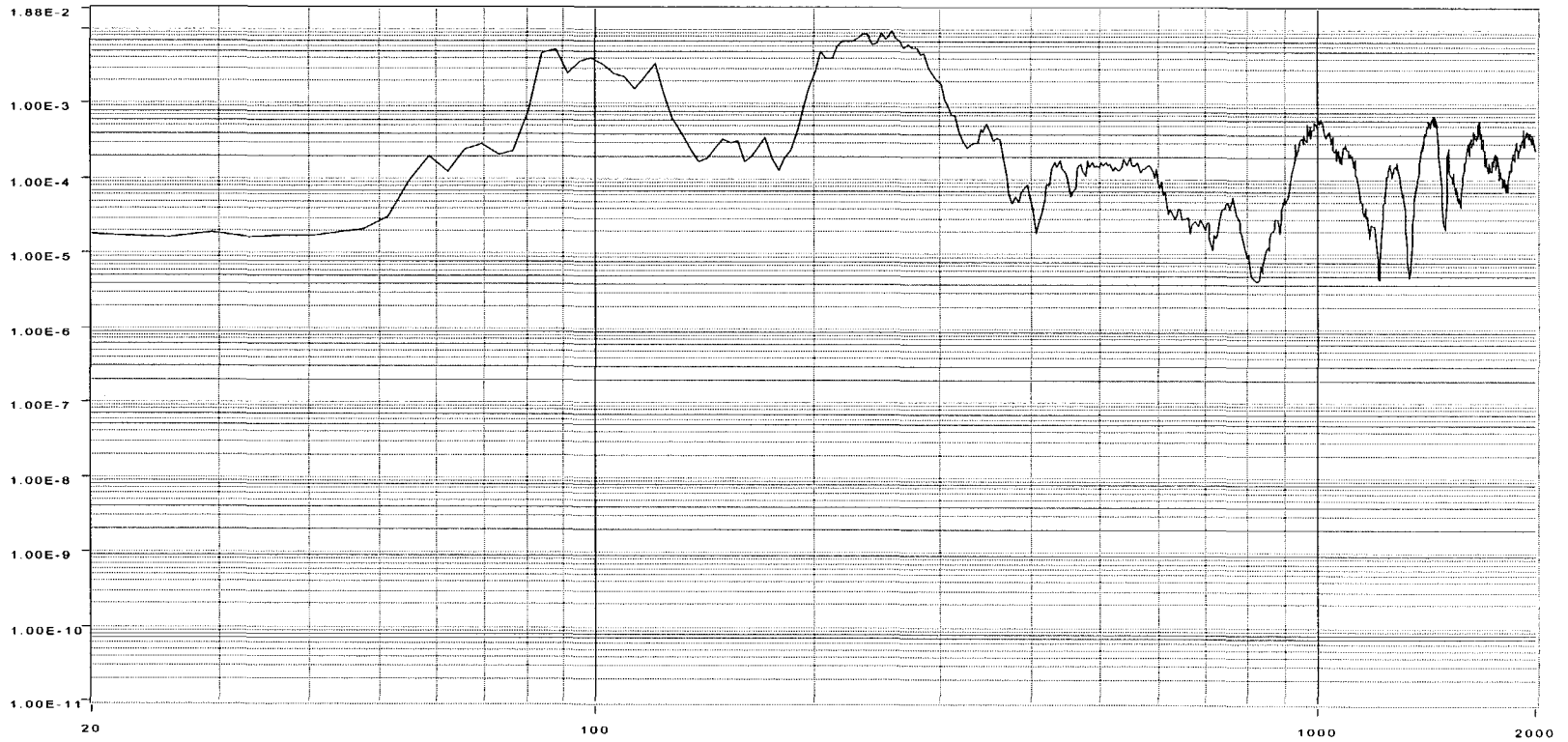
Channel #: 41 Node Number: 0041

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 48.00

RMS= 1.033E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

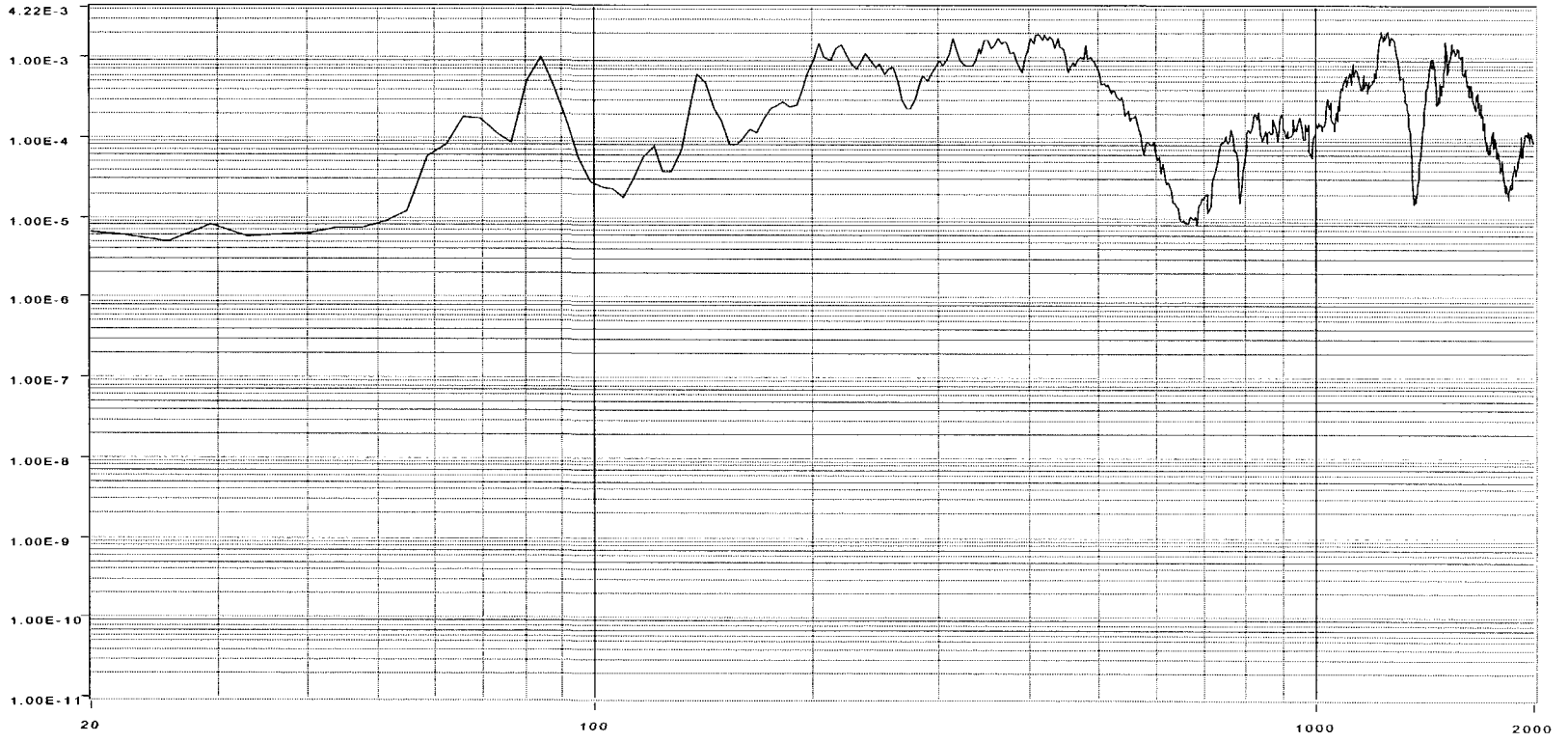
Channel #: 42 Node Number: 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 48.00

RMS= 9.244E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

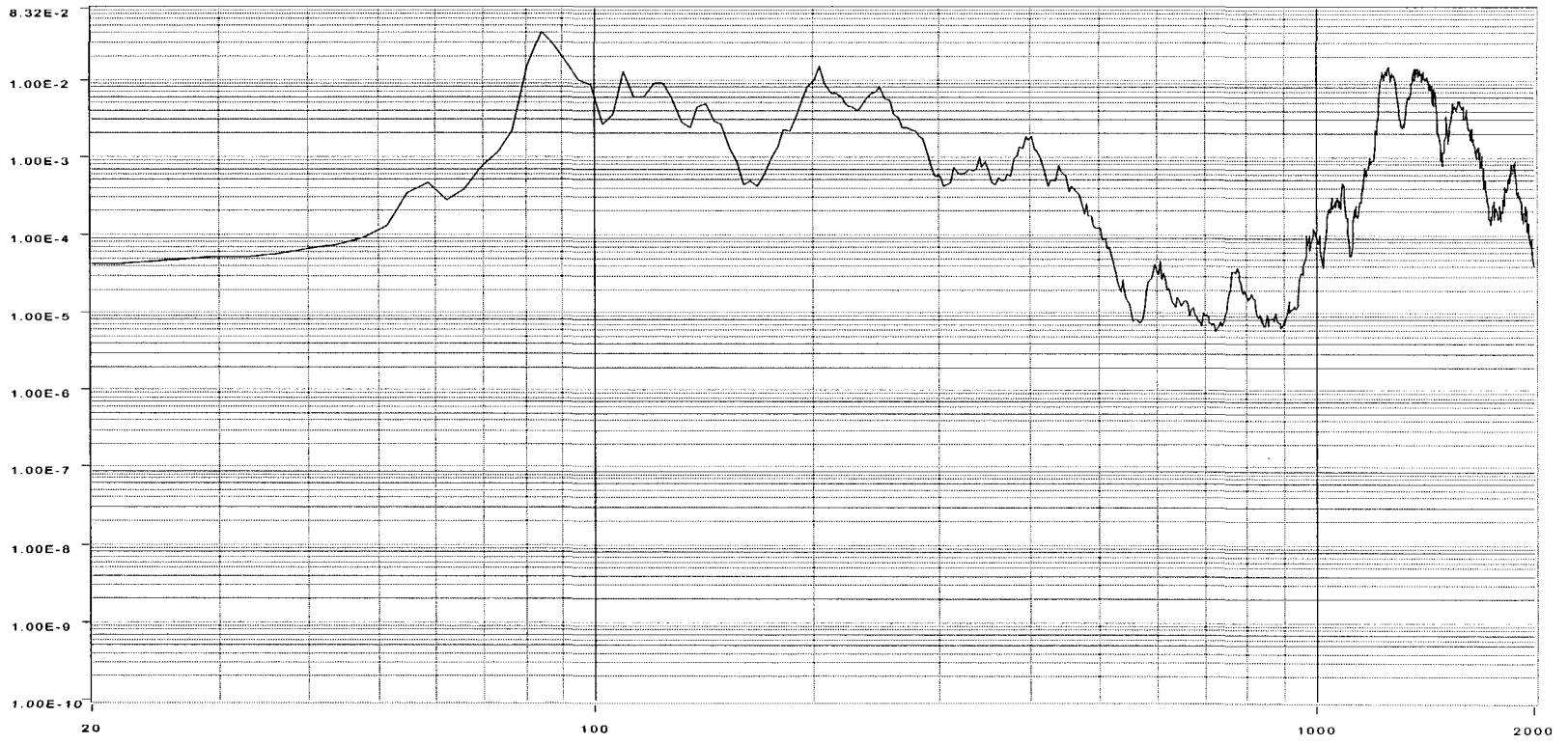
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 48.00

RMS= 2.086E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

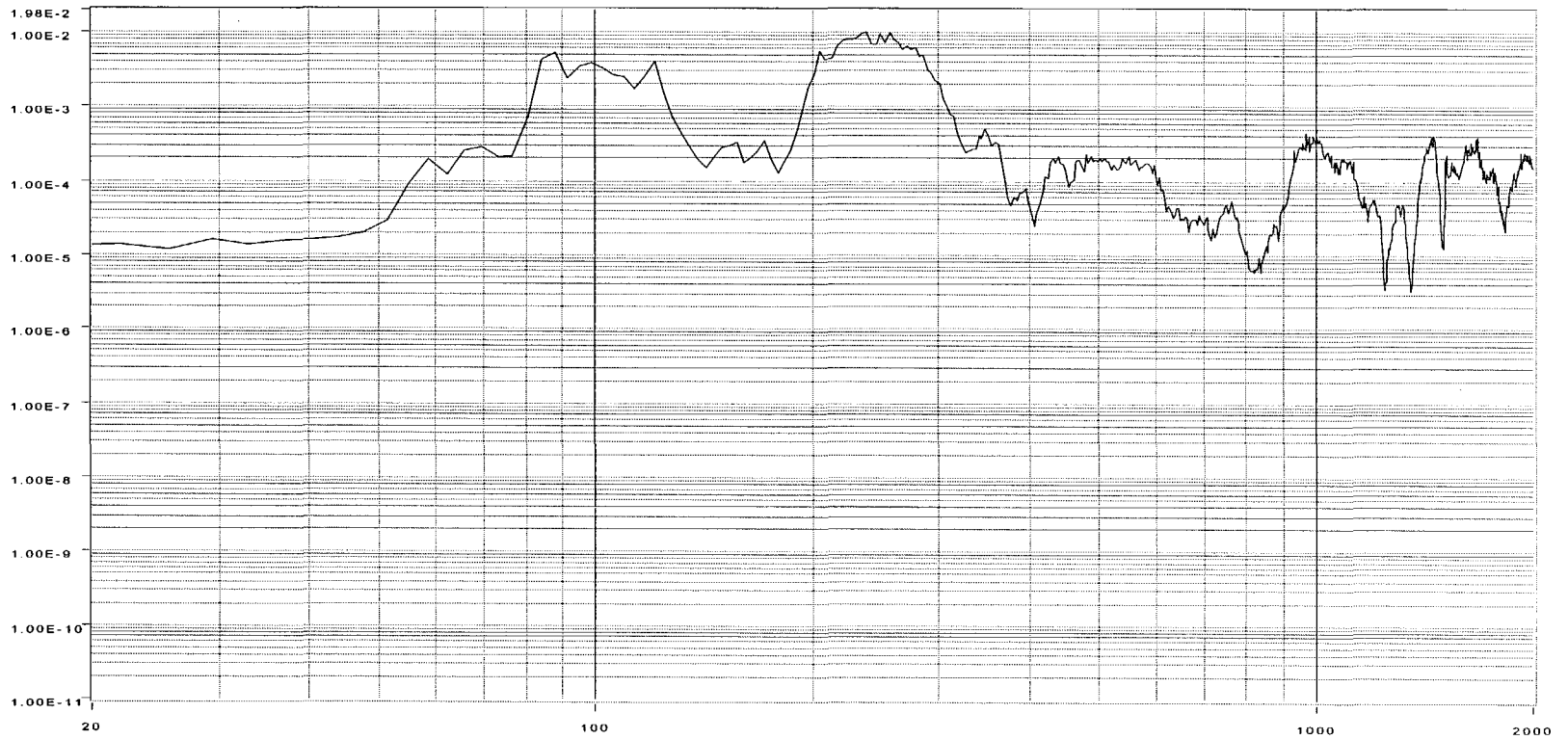
Channel #: 44 Node Number: 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 48.00

RMS= 1.020E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

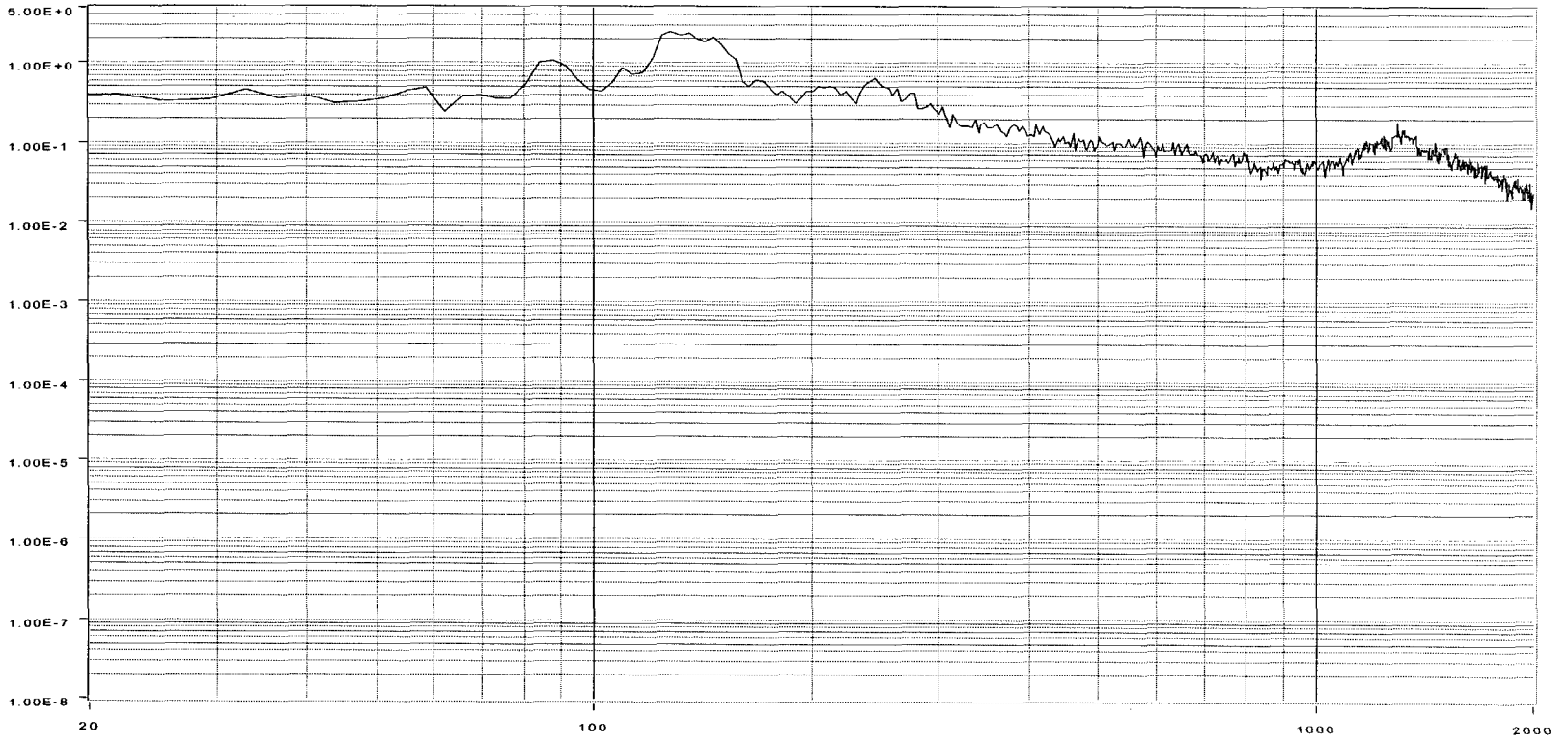
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 48.00

RMS= 1.772E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

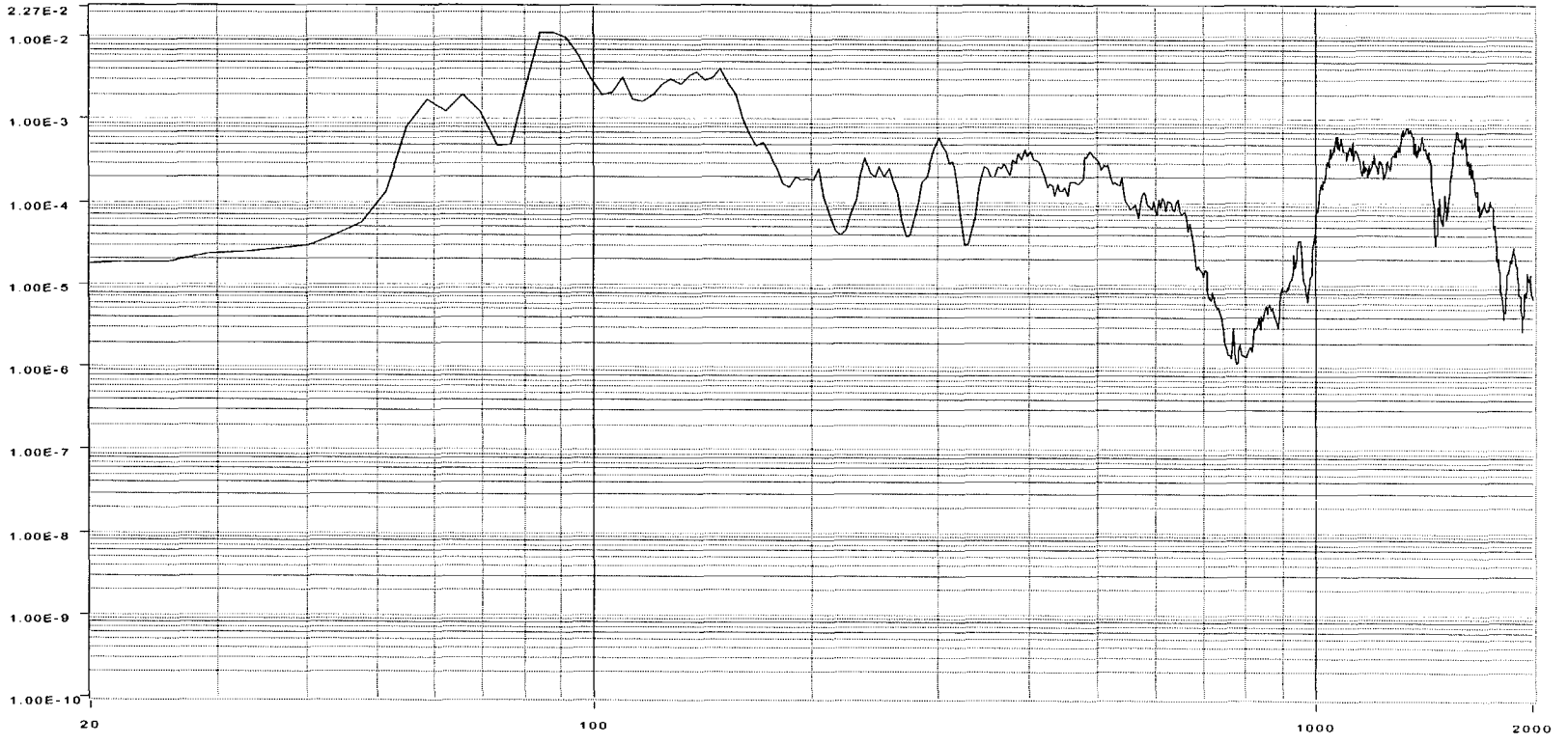
Channel #: 46 Node Number: 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 48.00

RMS= 8.354E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

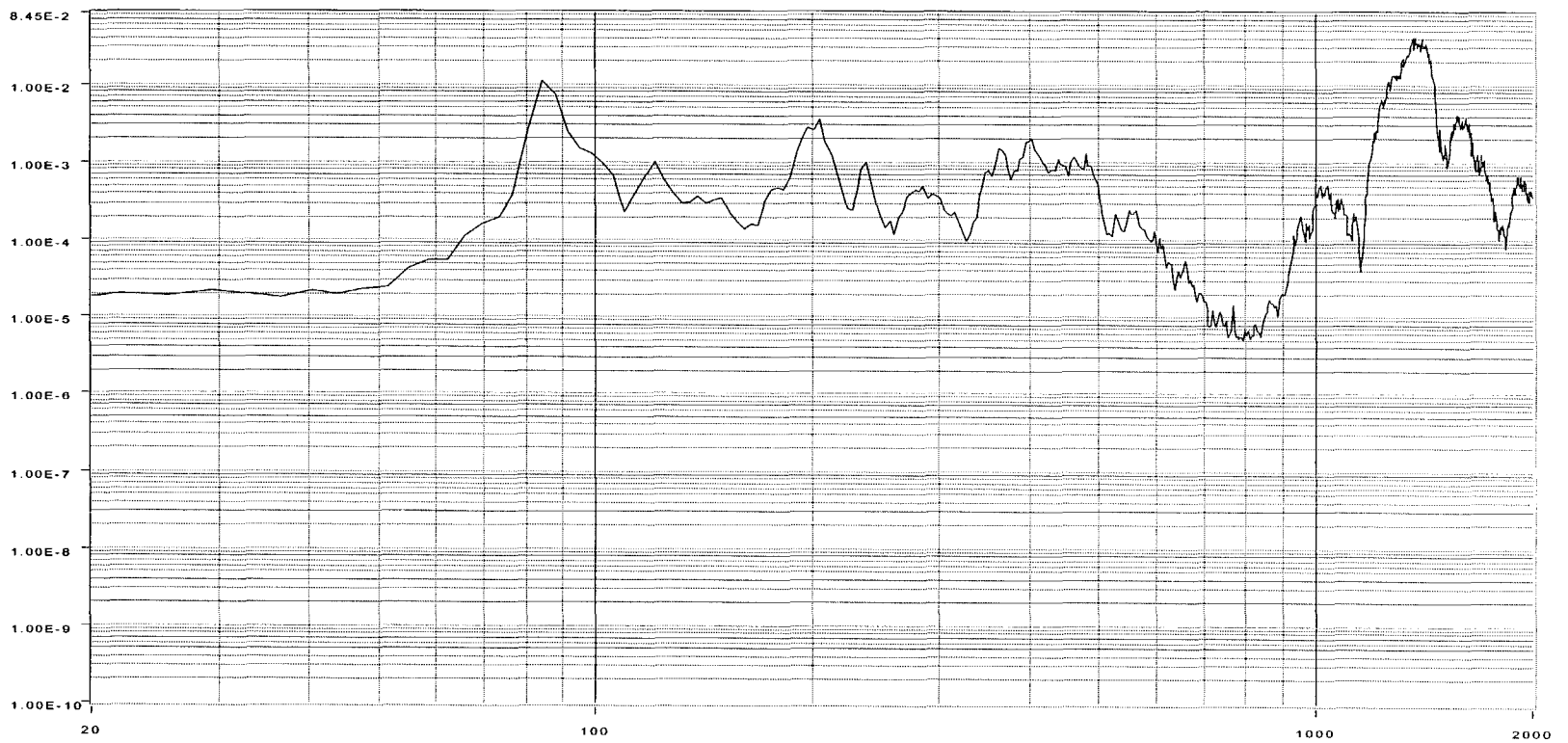
Channel #: 47 Node Number: 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 48.00

RMS= 2.467E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

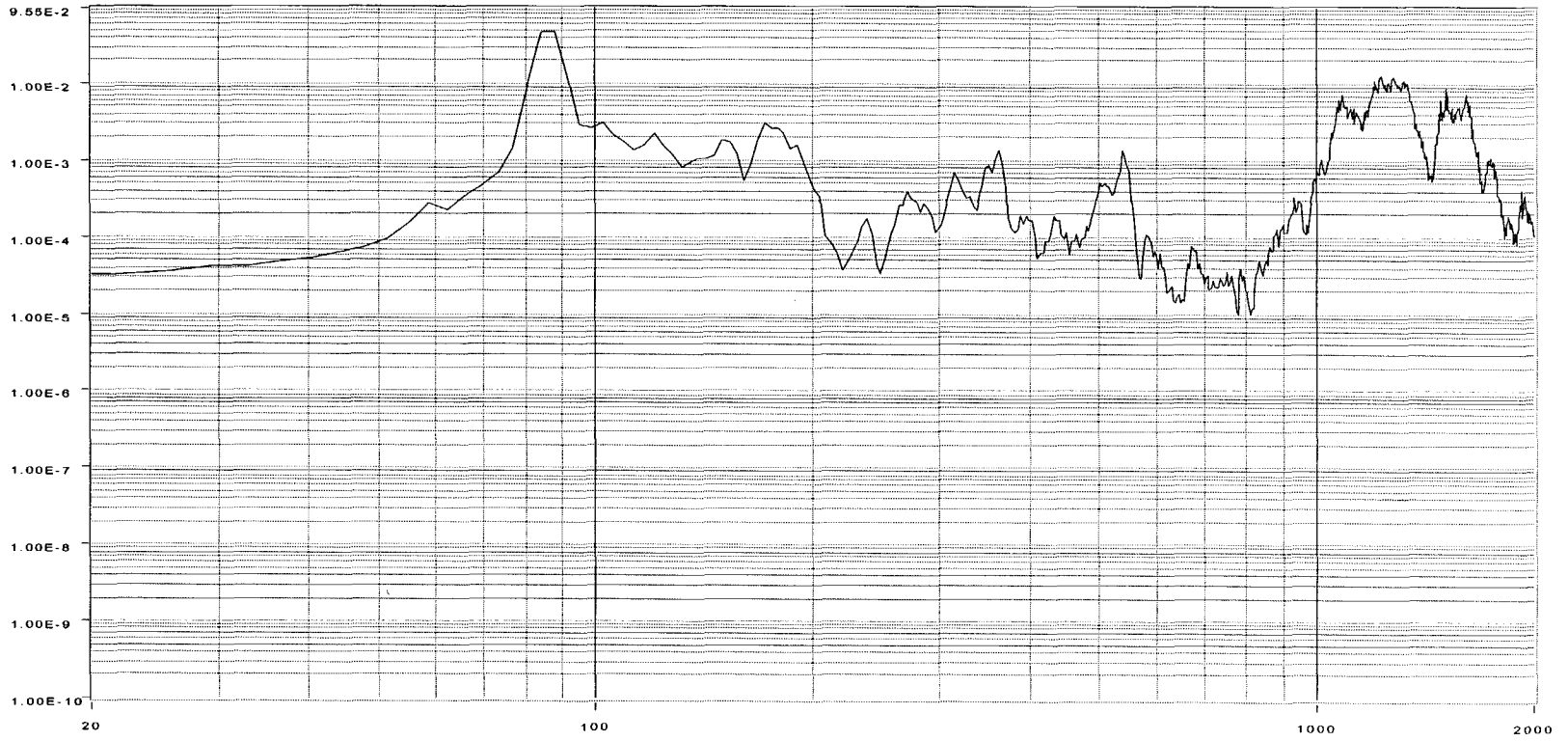
Channel #: 48 Node Number: 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 48.00

RMS= 2.028E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

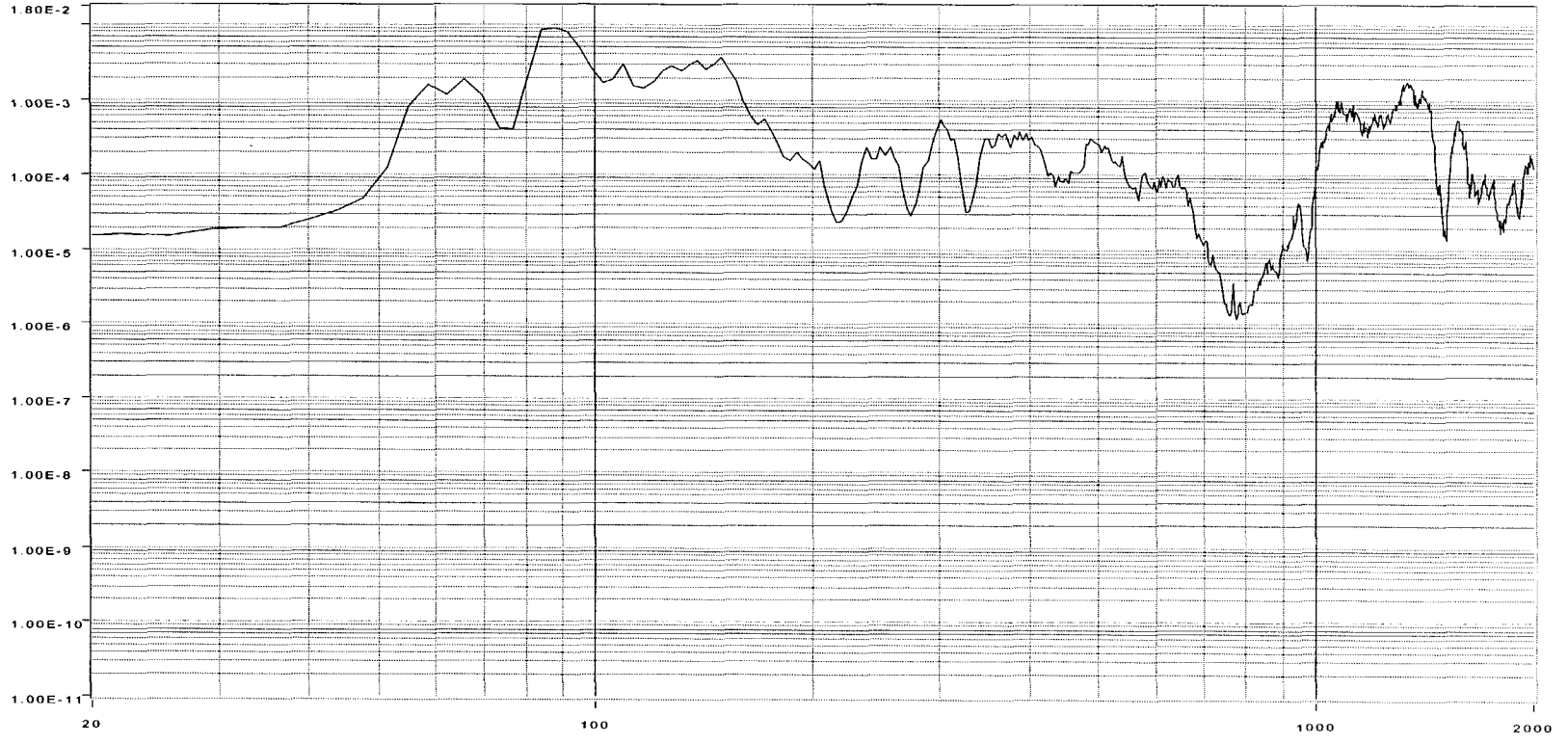
Channel #: 49 Node Number: 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 48.00

RMS= 8.918E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

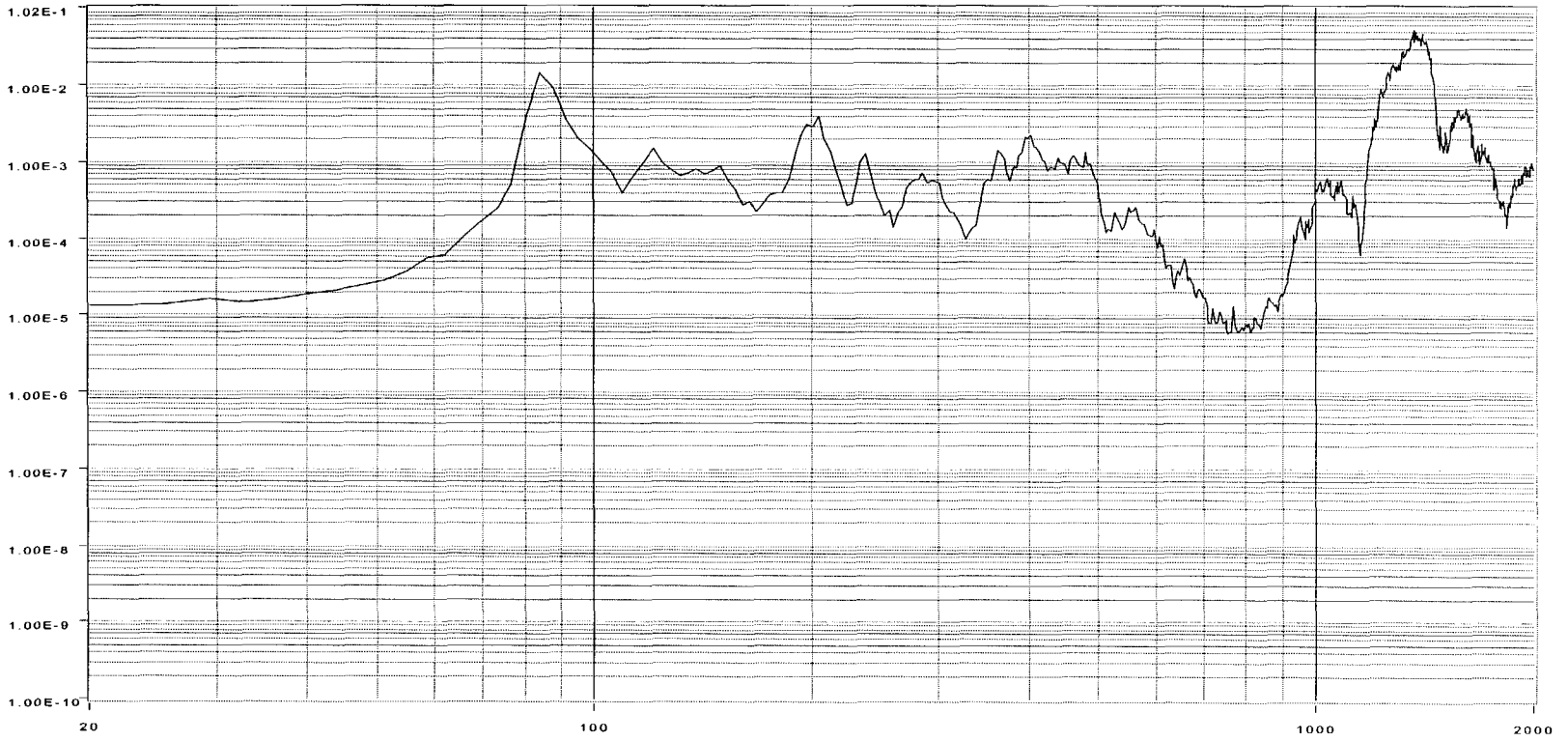
Channel #: 50 Node Number: 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 48.00

RMS= 2.742E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 7:41 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

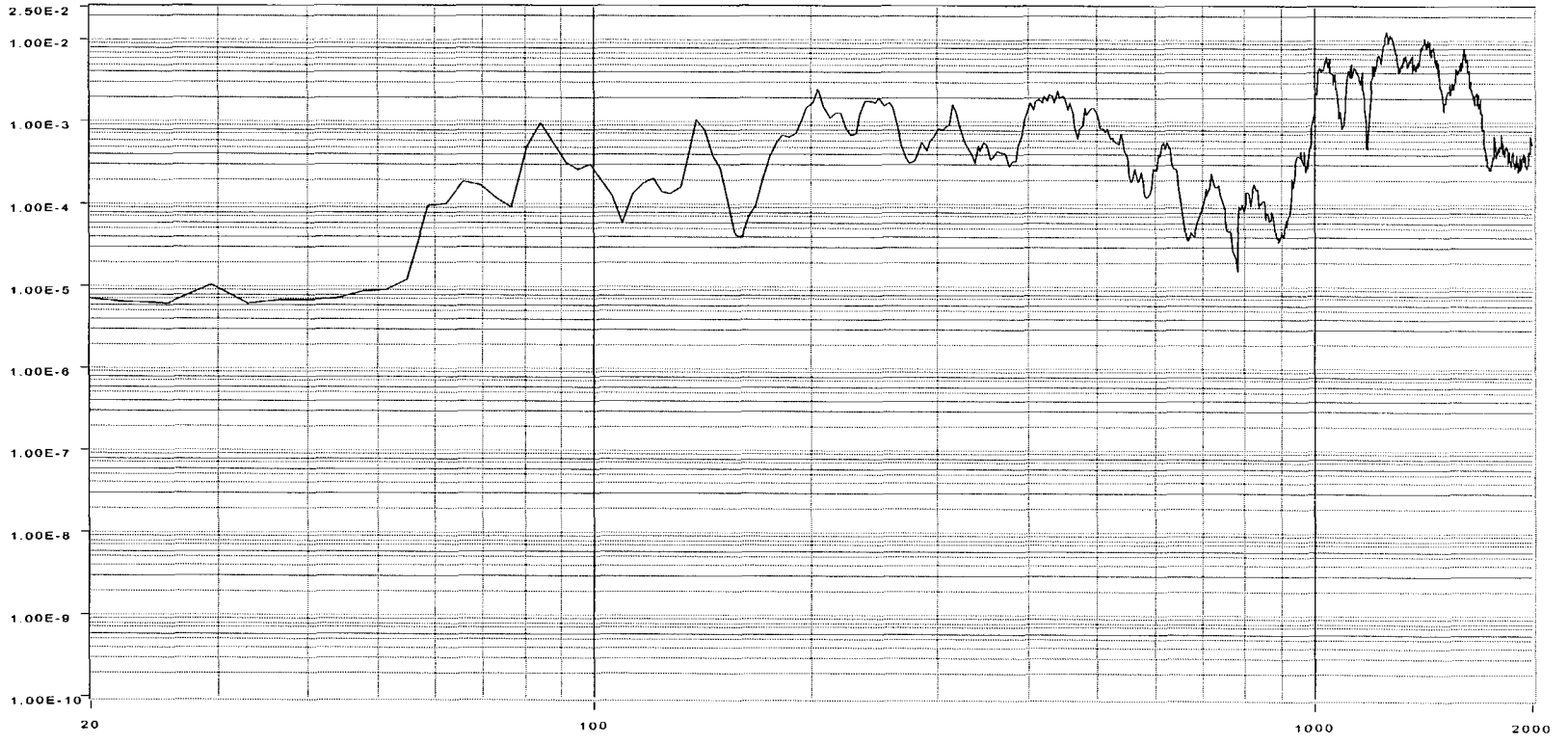
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 48.00

RMS= 1.964E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:42 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

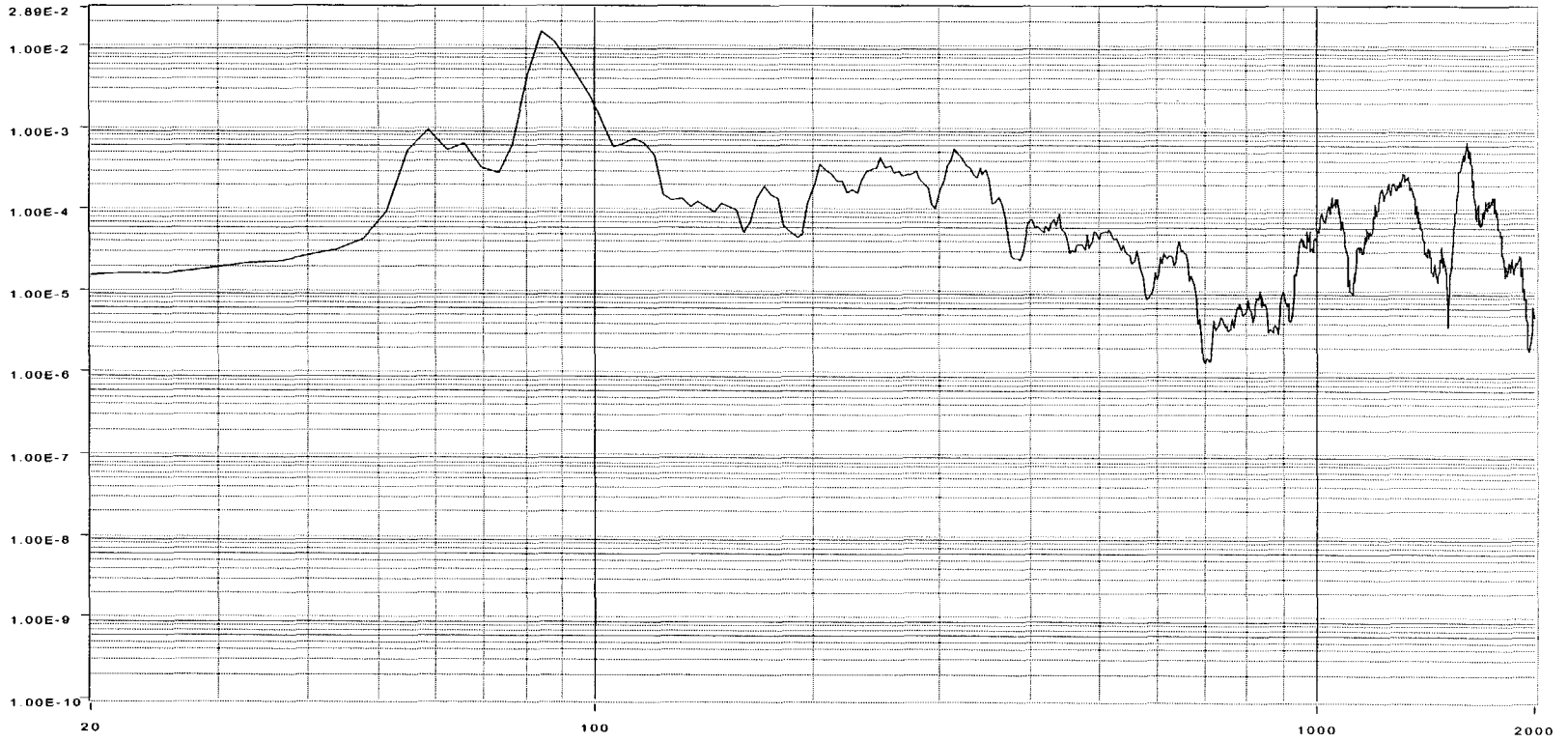
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 48.00

RMS= 5.955E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:42 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

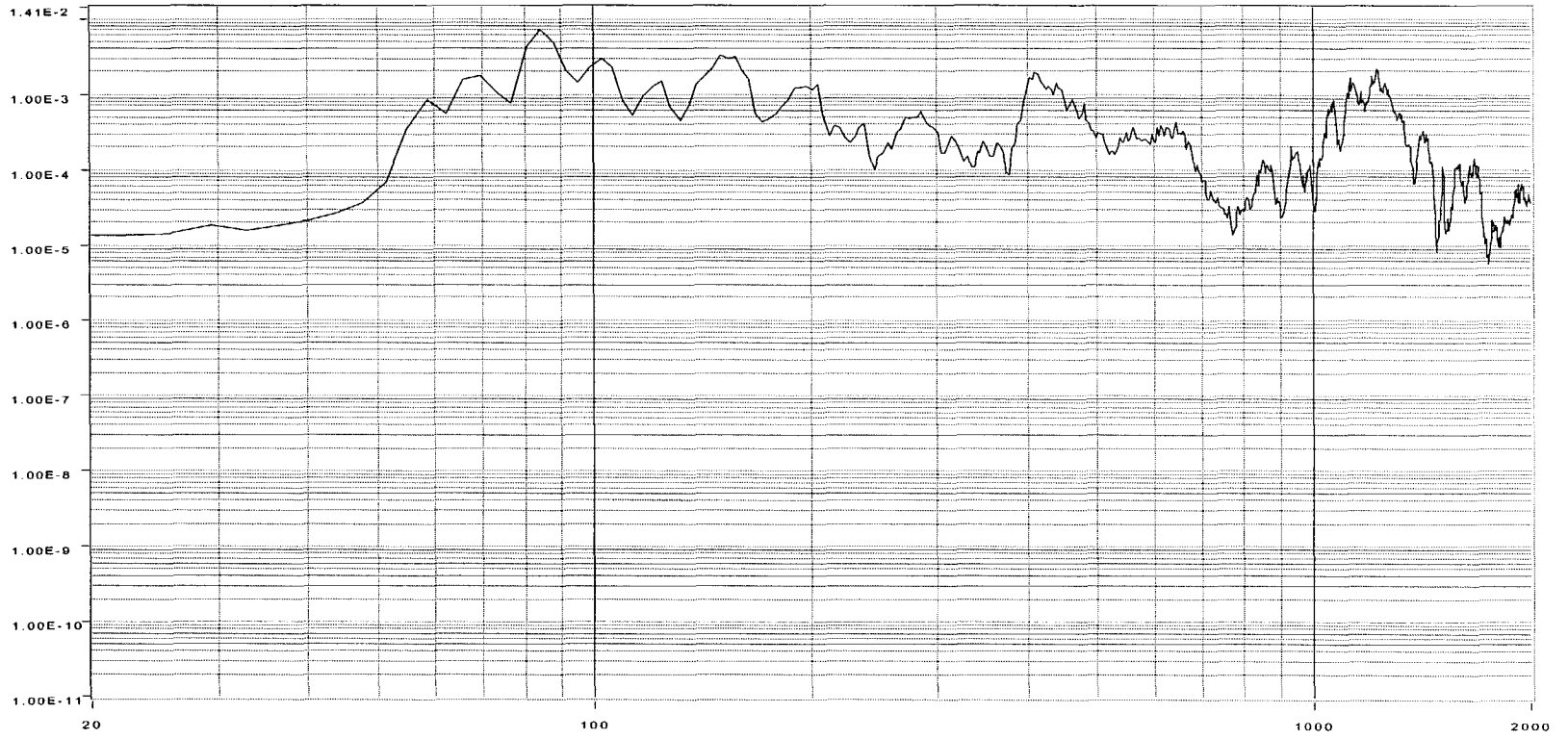
Channel #: 53 Node Number: 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 48.00

RMS= 8.862E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:42 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

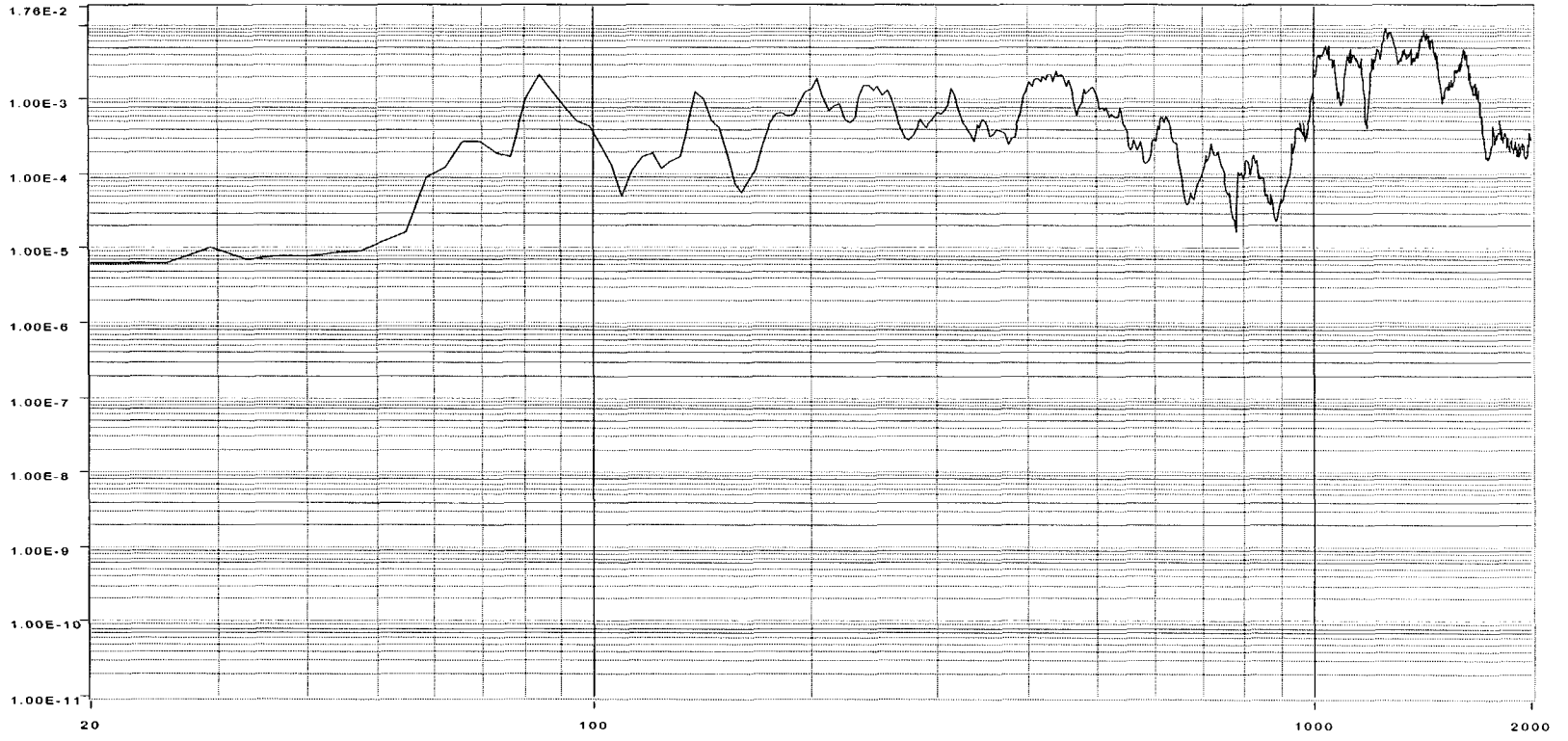
Channel #: 54 Node Number: 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 48.00

RMS= 1.721E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:42 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

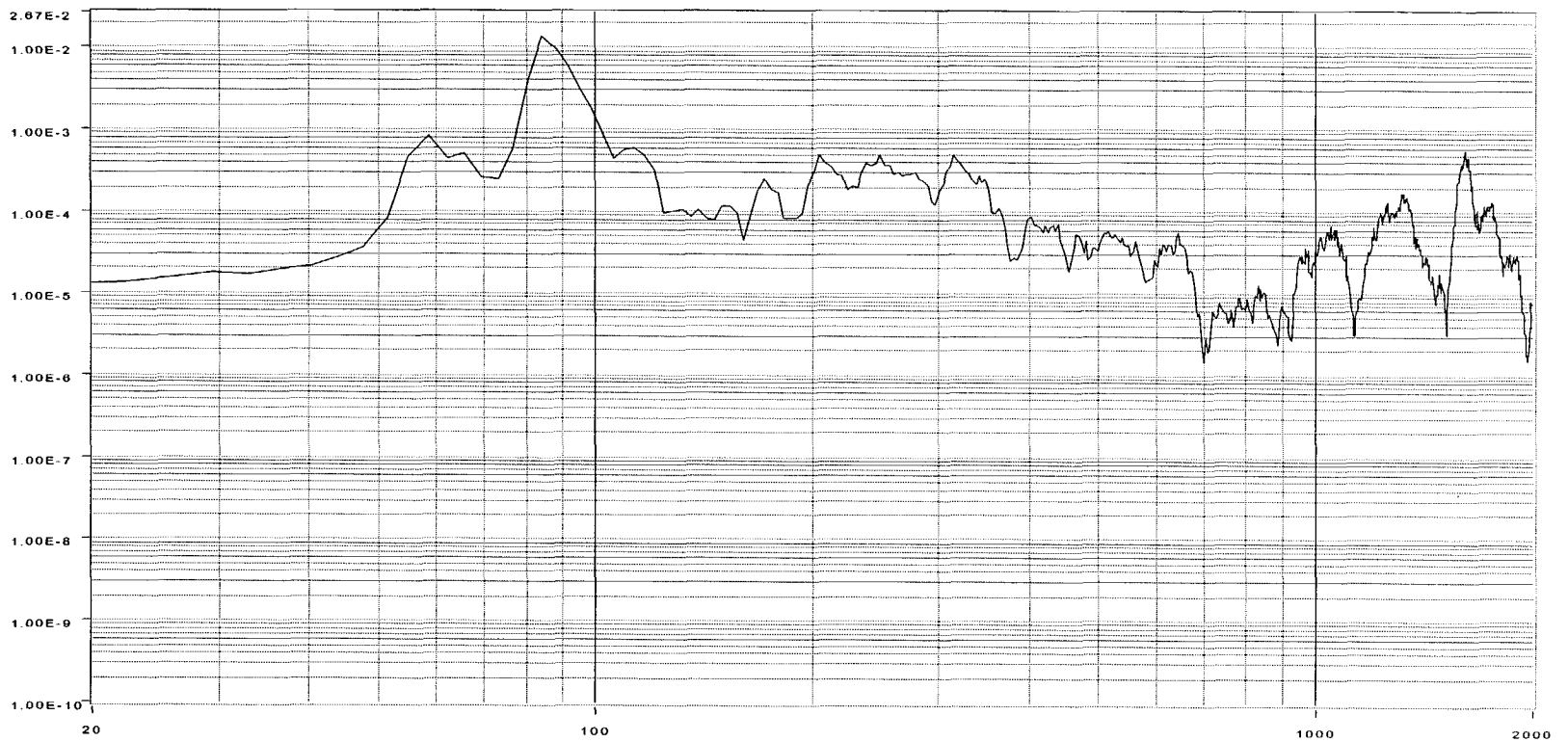
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 48.00

RMS= 5.555E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:42 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

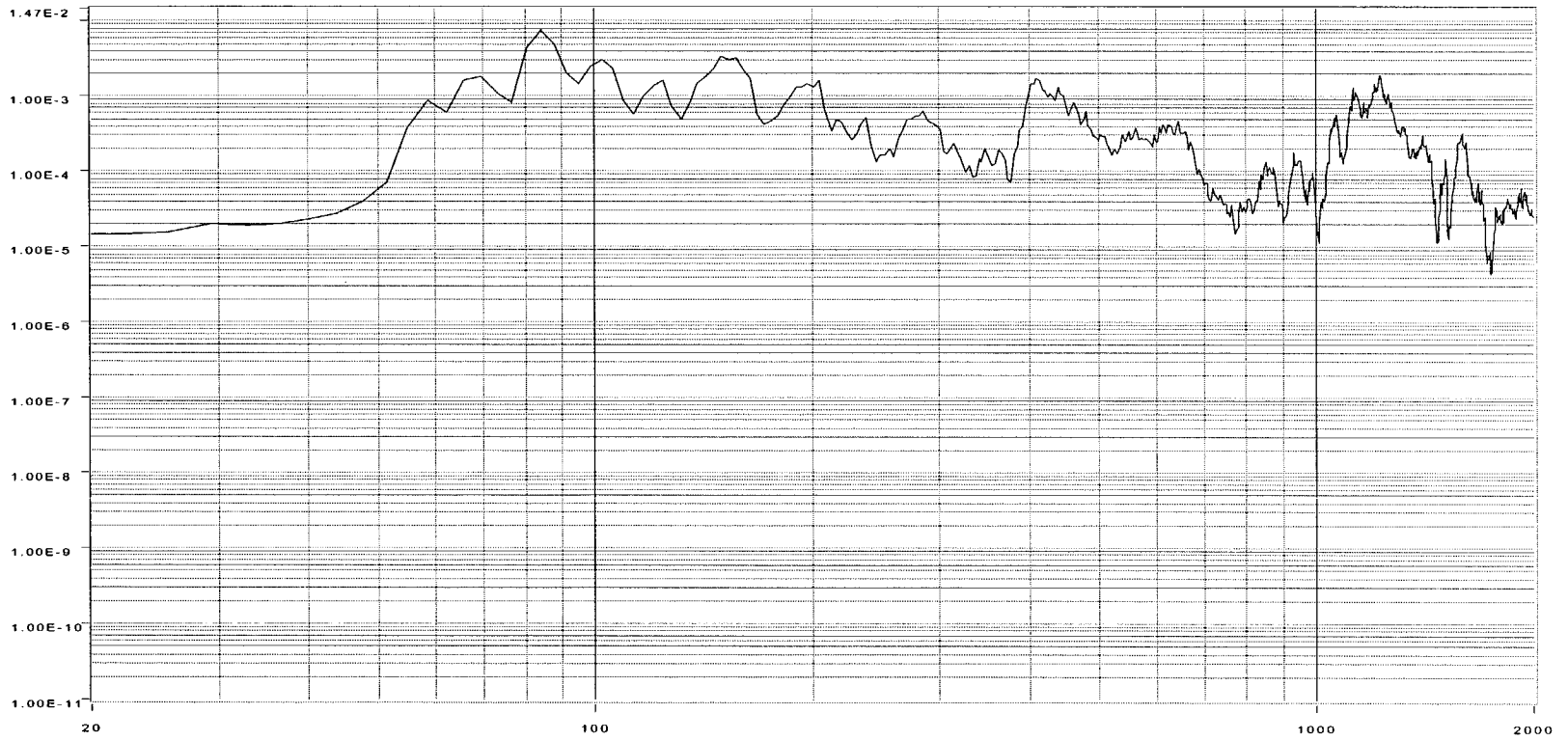
Channel #: 56 Node Number: 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 48.00

RMS= 8.592E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 7:42 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 19:26:55

Test title: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062412

Test description: HIRDLS VIBRATION TEST: Y-AXIS -6db random

Part number/id: Y4011

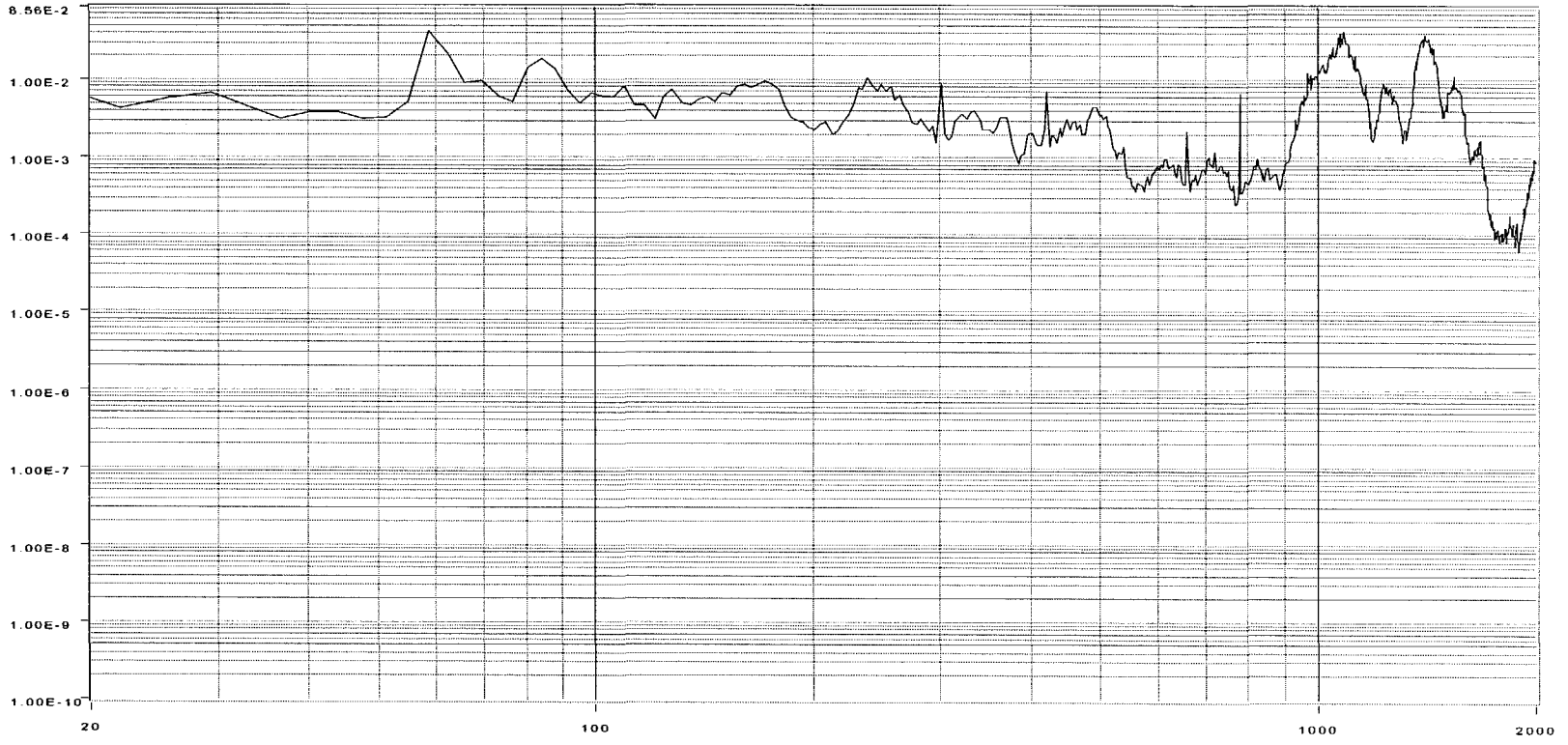
Channel #: 57 Node Number: 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 48.00

RMS= 3.293E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

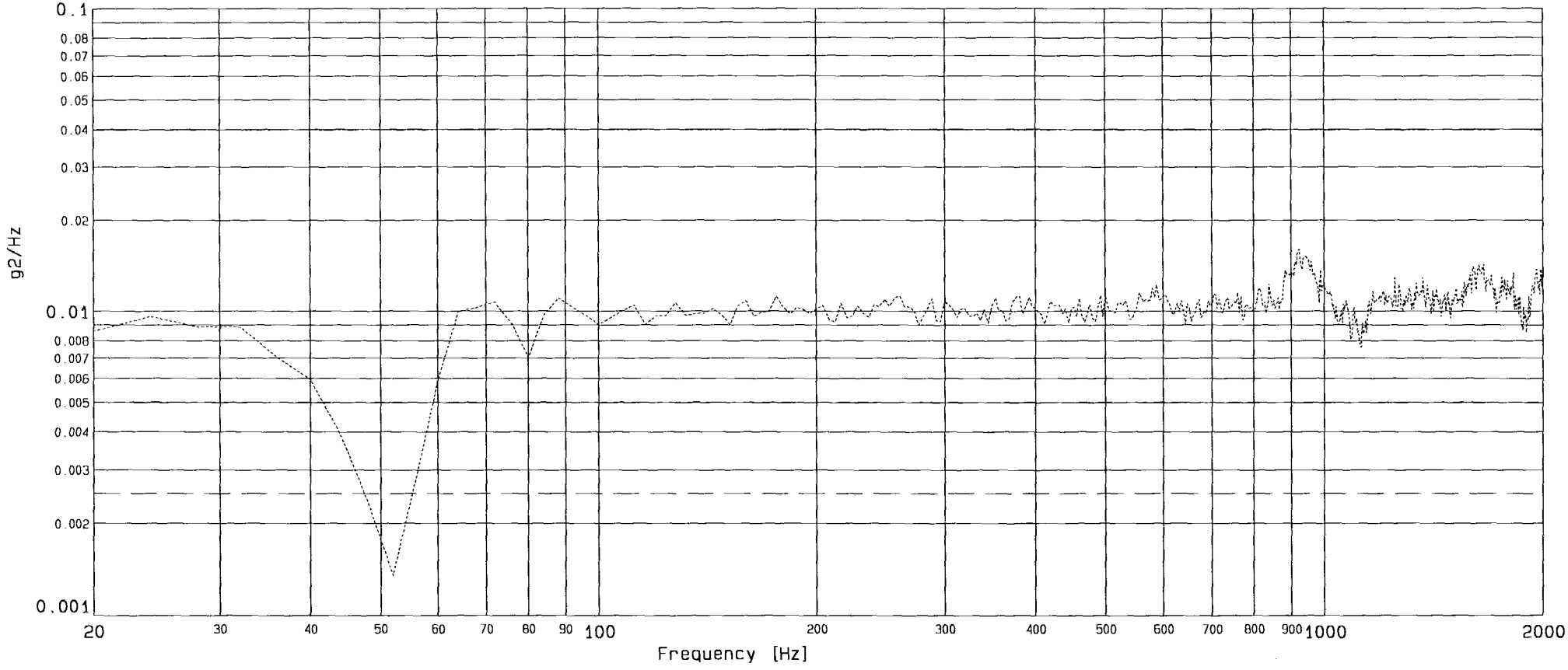
Analysis Date & time: 6/24/02 7:42 PM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

Project : hirdls
Test : Y_HIRDLS
Run : 4 062414

Date : 24-06-02
Time : 21:12:55
Mode : Random Vibration Control

Test level	: 0.00 dB	Number of lines in alarm	: 0	Trace identification :	Reference
Elapsed time	: 00:01:00.2	Number of lines in abort	: 0		Avg Ctrl
Degrees of freedom	: 280	Reference level RMS	: 4.45 g		Upper Al
Control strategy	: Average	Control level RMS	: 4.63 g		Lower Al
Frequency resolution	: 4 Hz	Nbr of control channels	: 2		Upper Ab
					Lower Ab



HIRDLS Y AXIS 0dB

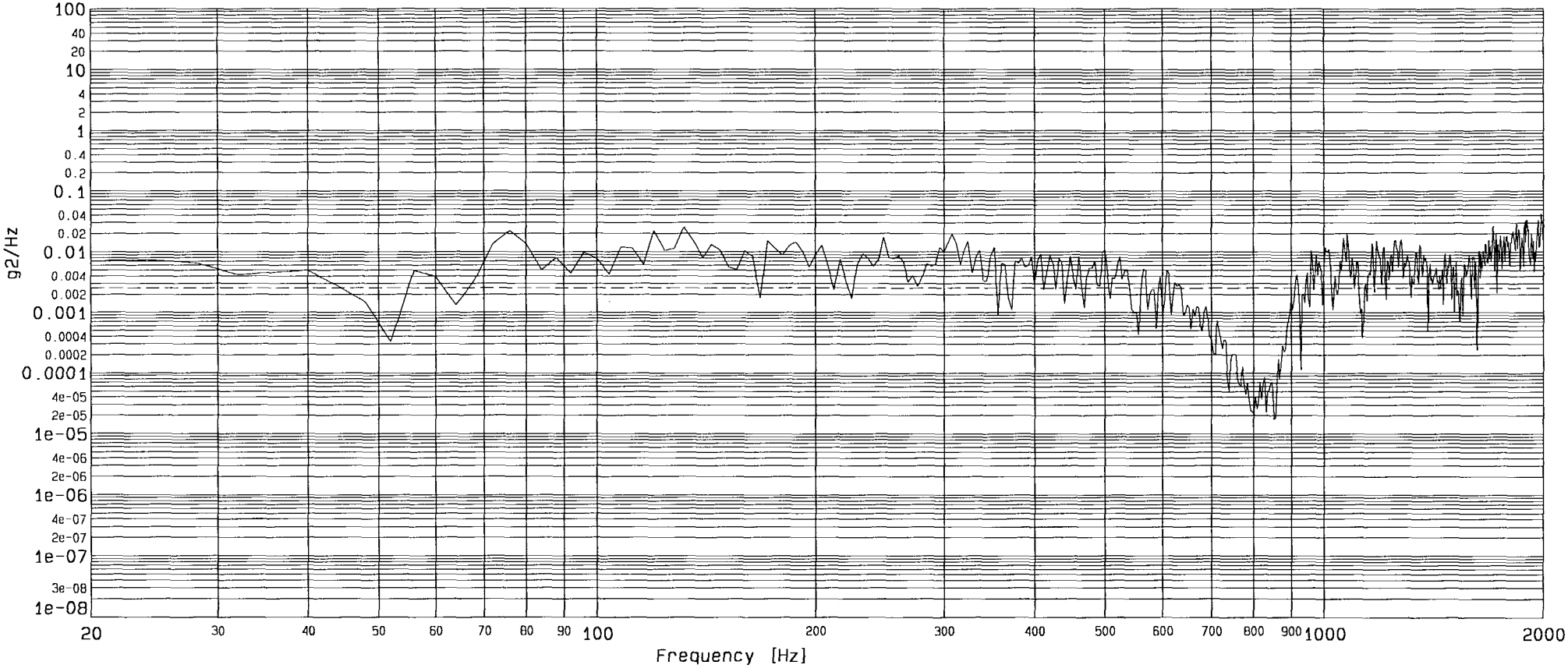
run 062414

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date	: 24-06-02
Test	: Y_HIRDLS	Time	: 21: 12: 55
Run	: 4 062414	Mode	: Random Vibration Control

Test level	: 0.00 dB	PSD Level (RMS)	: 3.69 g	Trace identification :	N_CONTROL_Y
Elapsed time	: 00: 01: 00.2	Number of averages	: 3		Reference
Degrees of freedom	: 280				Upper Ab
Control strategy	: Average				Lower Ab
Frequency resolution	: 4 Hz				



HIRDLS Y AXIS 0dB

run 062414

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

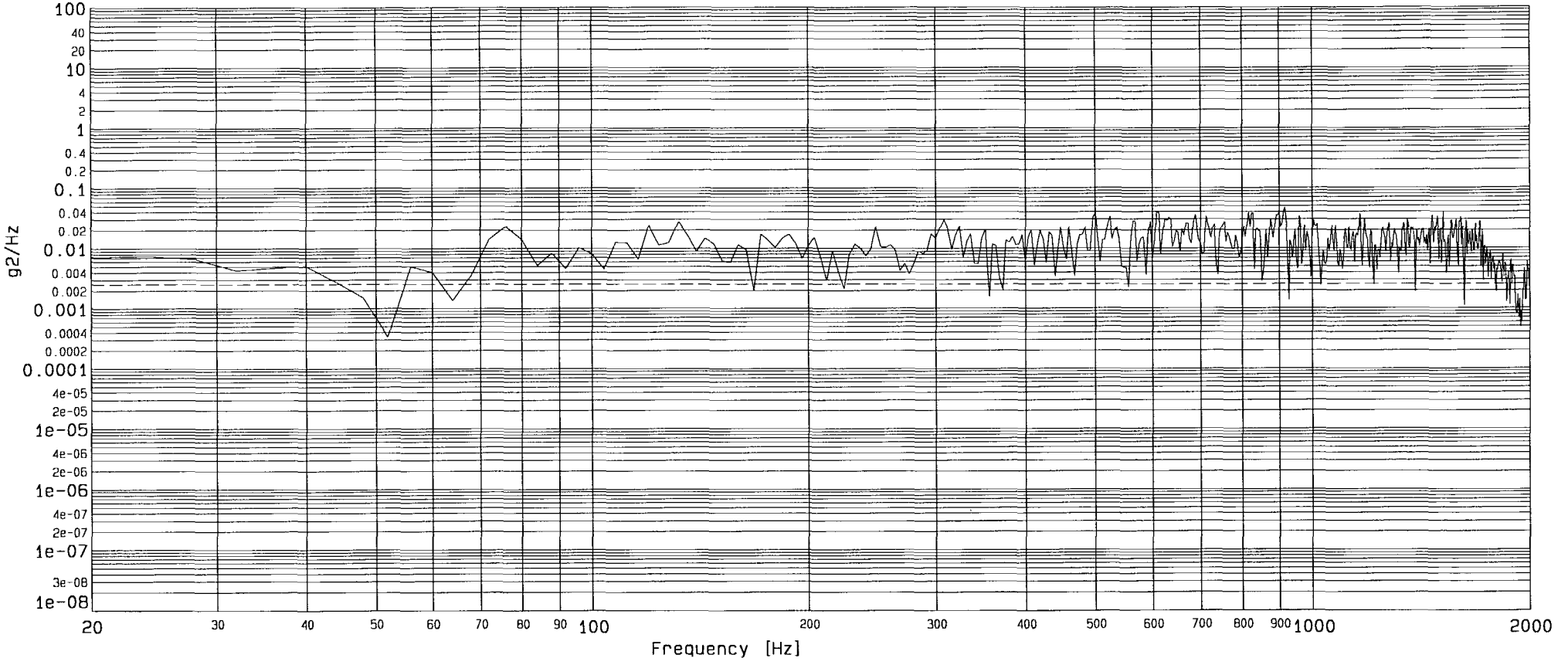
Project : hirdls
Test : Y_HIRDLS
Run : 4 062414

Date : 24-06-02
Time : 21:12:55
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:01:00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 5.13 g
Number of averages : 3

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS 0dB

run 062414

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

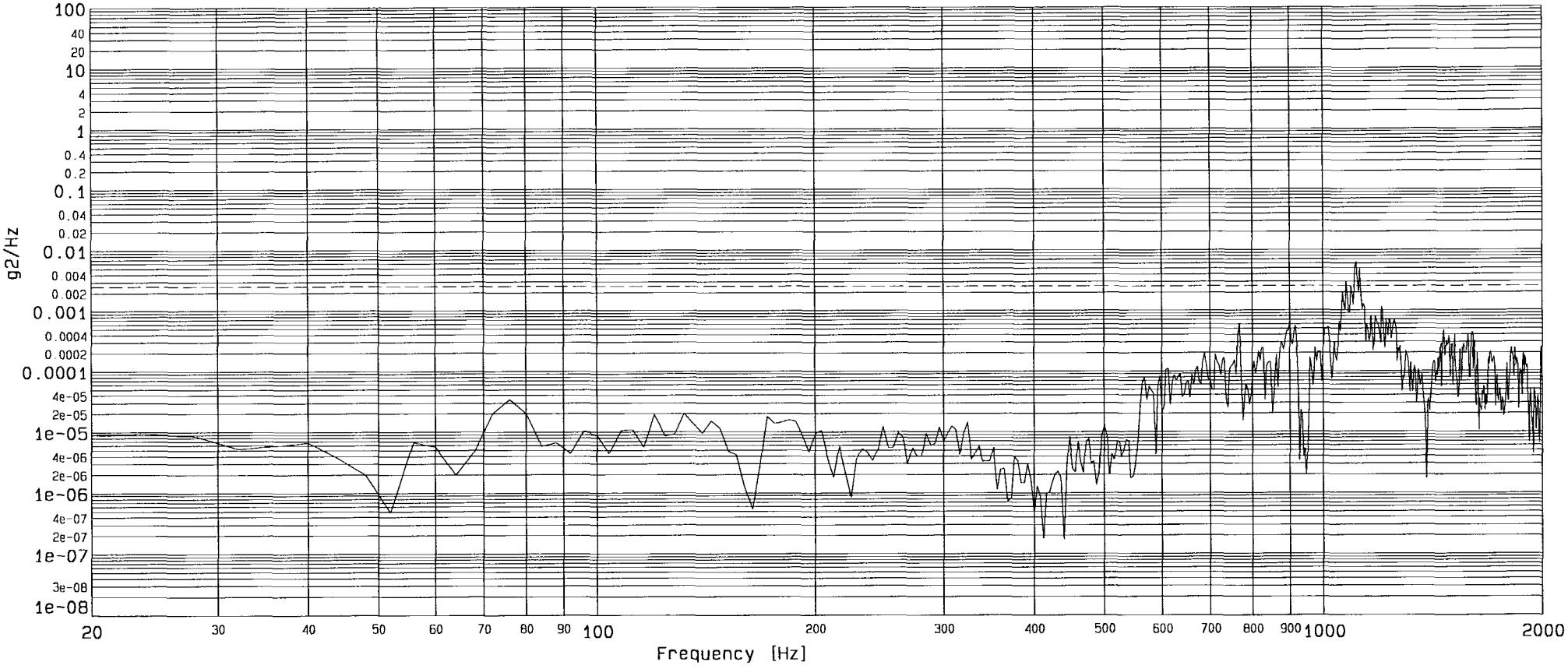
Project : hirdls
Test : Y_HIRDLS
Run : 4 062414

Date : 24-06-02
Time : 21:12:55
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:01:00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 647.13e-03 g
Number of averages : 3

Trace identification :
N_CONTROL_X
Reference
Upper Ab
Lower Ab



HIRDLS Y AXIS 0dB

run 062414

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

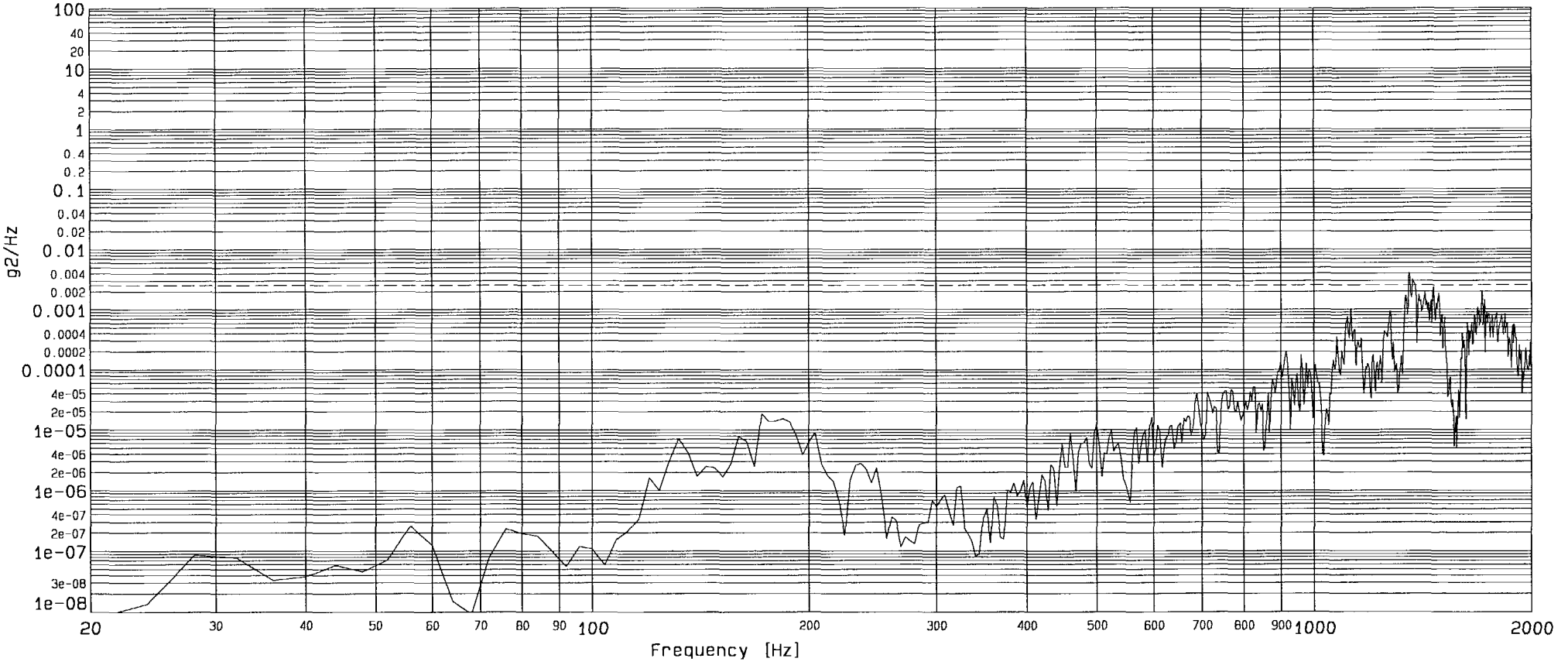
Project : hirdls
Test : Y_HIRDLS
Run : 4 062414

Date : 24-06-02
Time : 21:12:55
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:01:00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 736.37e-03 g
Number of averages : 3

Trace identification :
N_CONTROL_Z
Reference
Upper Ab
Lower Ab



HIRDLS Y AXIS 0dB

run 062414

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

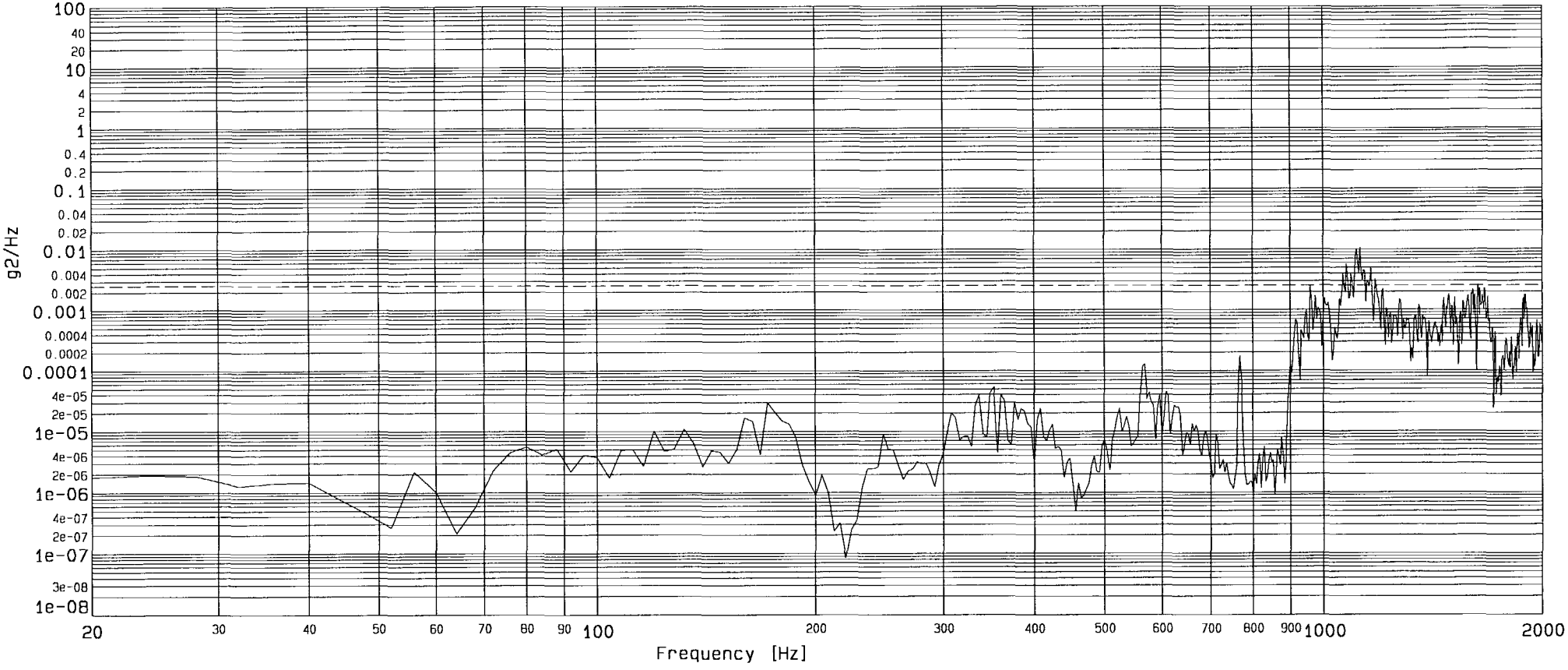
Project : hirdls
Test : Y_HIRDLS
Run : 4 062414

Date : 24-06-02
Time : 21:12:55
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:01:00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.06 g
Number of averages : 3

Trace identification :
S_CONTROL_X
Reference
Upper Ab
Lower Ab



HIRDLS Y AXIS 0dB

run 062414

date 06-24-02

lms

LOCKHEED MARTIN MISSILES & SPACE

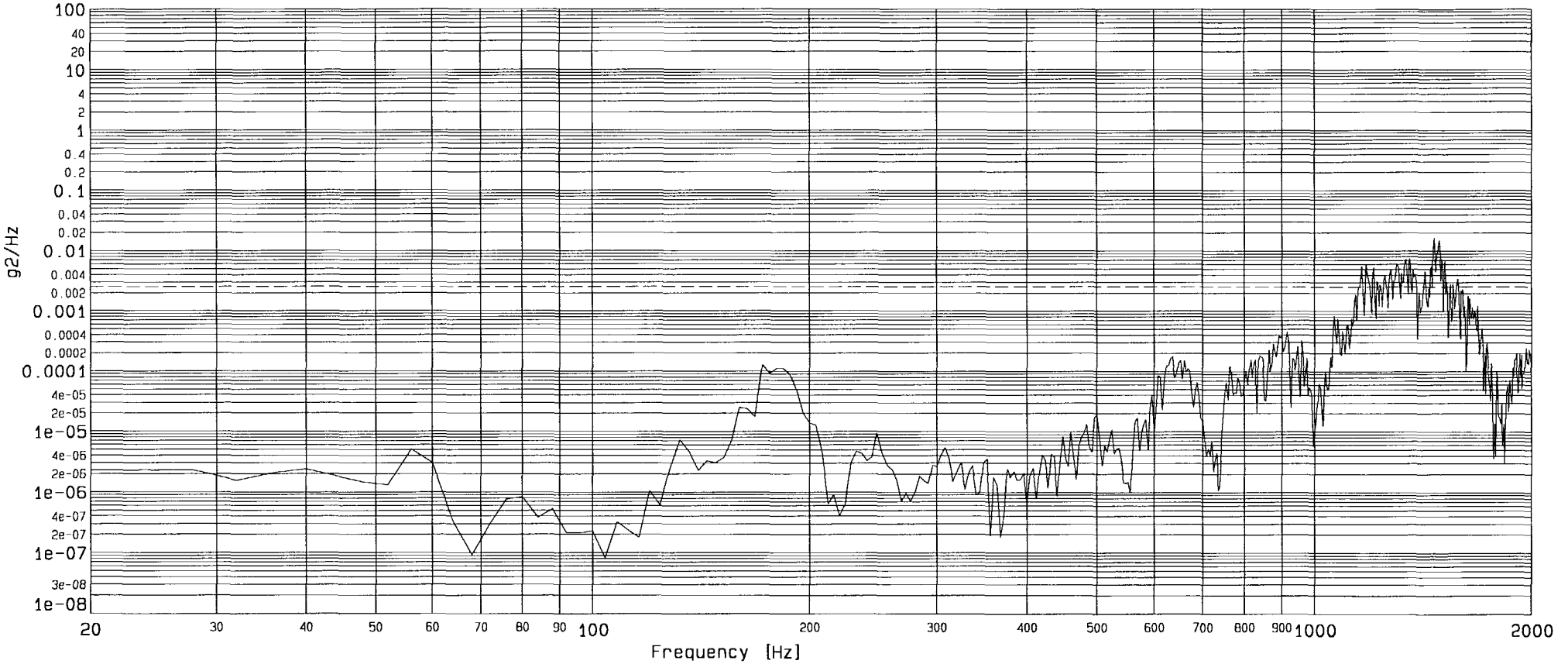
Project : hirdls
Test : Y_HIRDLS
Run : 4 062414

Date : 24-06-02
Time : 21:12:55
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:01:00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.36 g
Number of averages : 3

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS 0dB

run 062414

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

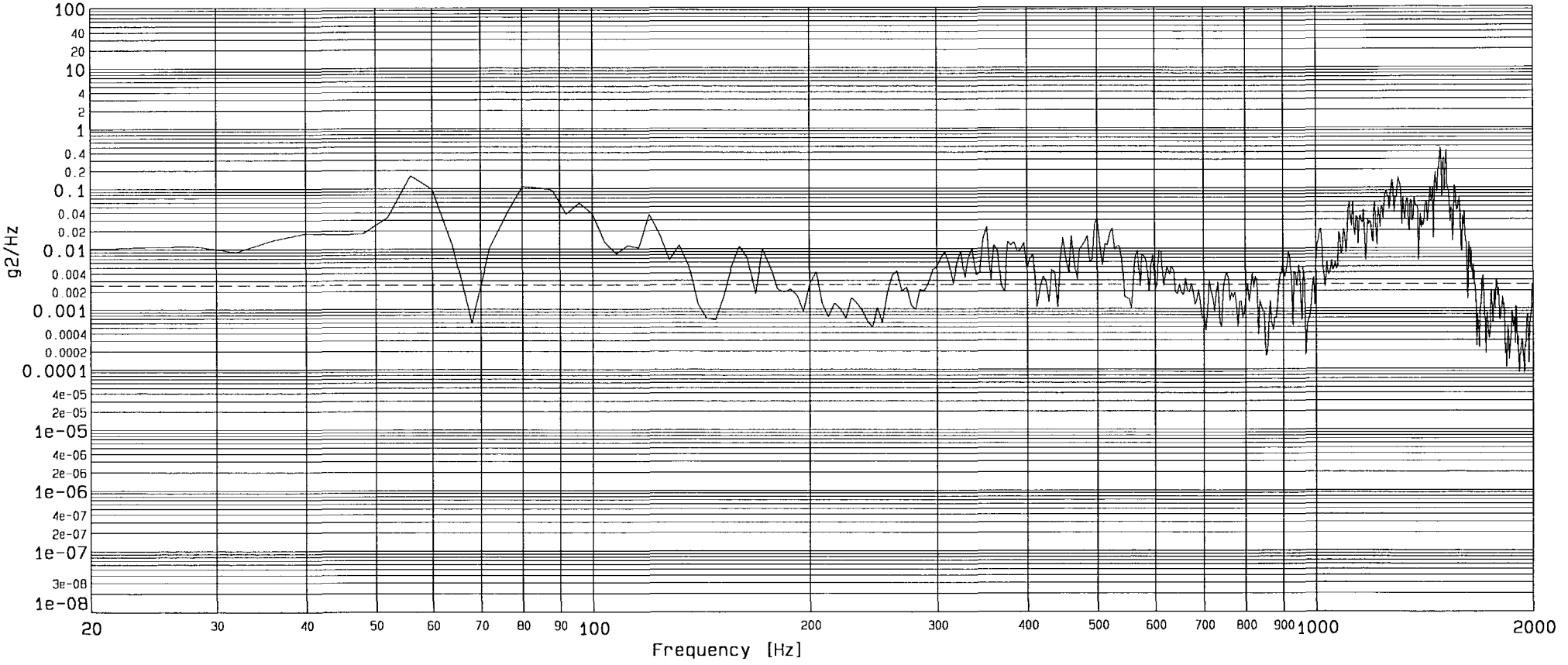
Project : hirdls
Test : Y_HIRDLS
Run : 4 062414

Date : 24-06-02
Time : 21:12:55
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:01:00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 6.68 g
Number of averages : 3

Trace identification :
- A1YR_YPANEL_UI
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y AXIS 0dB

run 062414

date 06-24-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

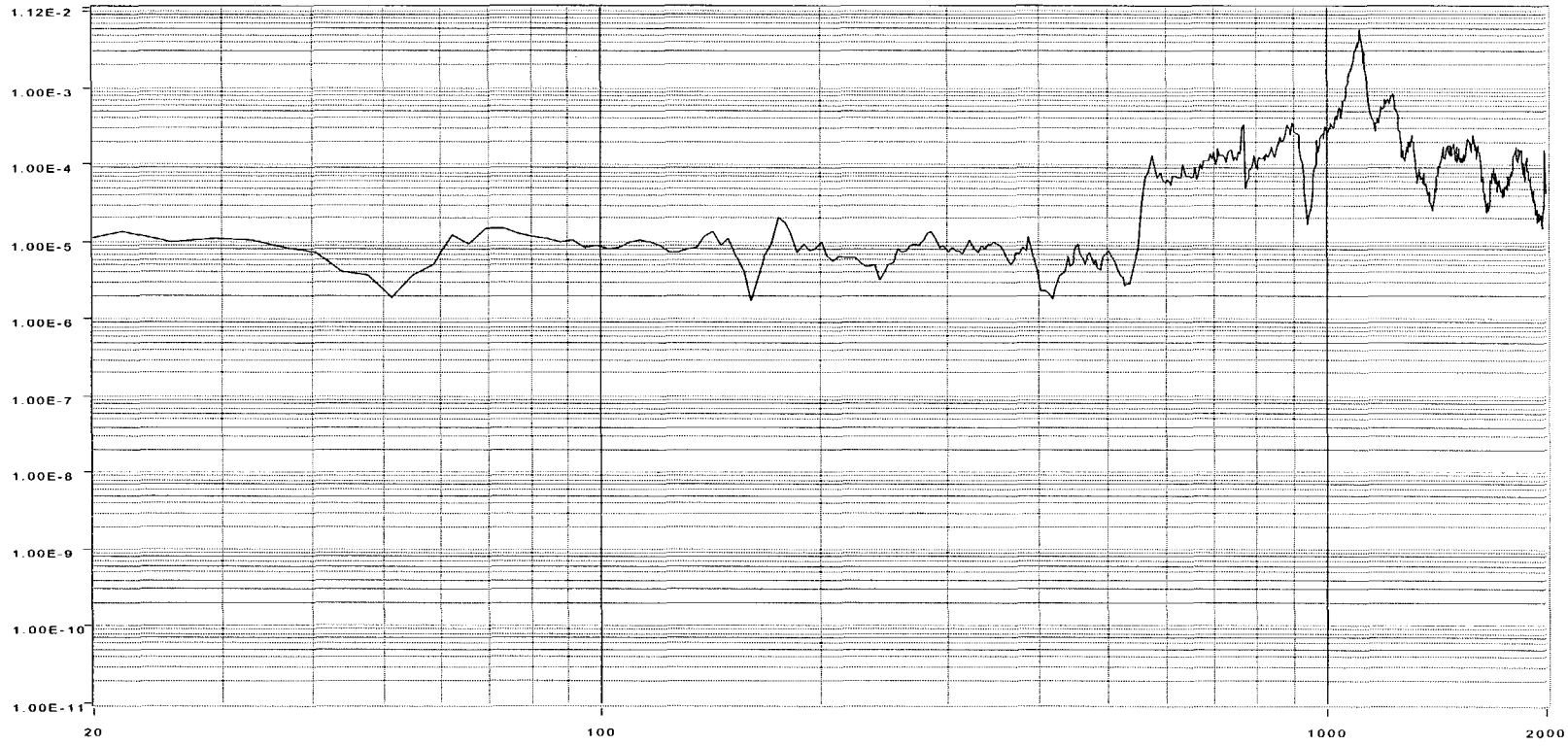
Channel #: 1 **Node Number:** 0001

Channel Label: North_Control_X

Channel Description:

Start Time: 94.00

RMS= 6.476E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

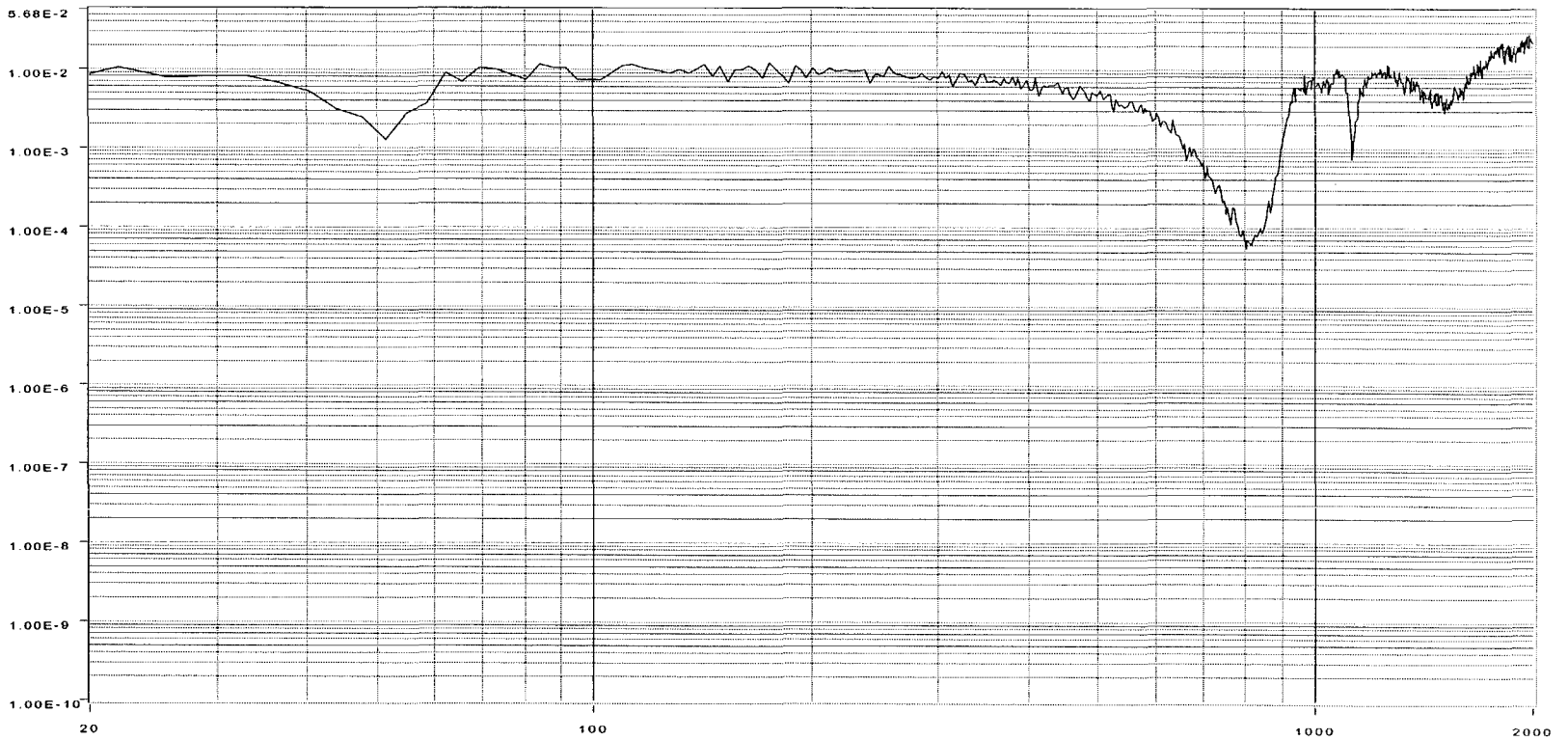
Channel #: 2 Node Number: 0002

Channel Label: North_Control_Y

Channel Description:

Start Time: 94.00

RMS= 3.798E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

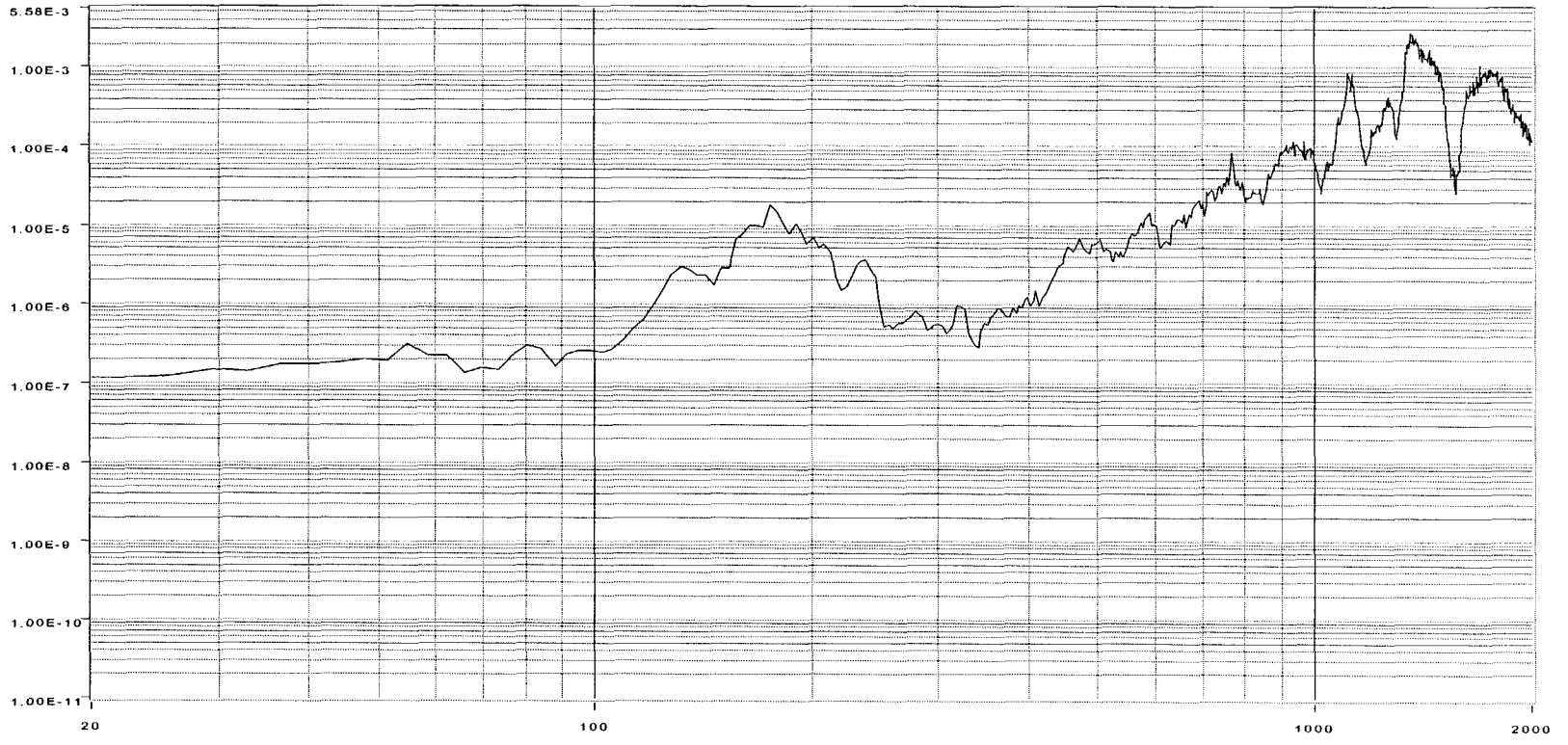
Channel #: 3 Node Number: 0003

Channel Label: North_Control_Z

Channel Description:

Start Time: 94.00

RMS= 7.500E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

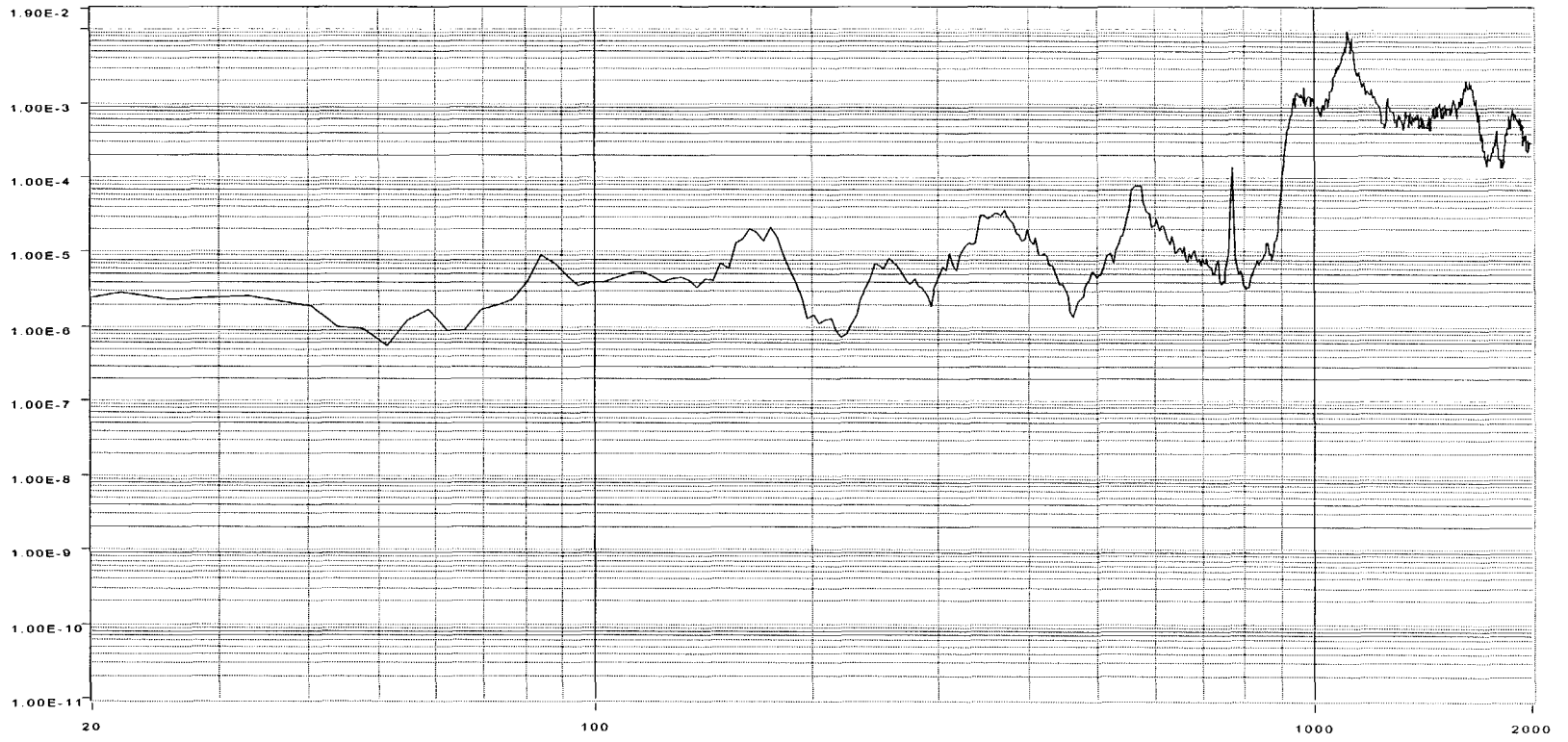
Channel #: 4 Node Number: 0004

Channel Label: South_Control_X

Channel Description: I

Start Time: 94.00

RMS= 1.093E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

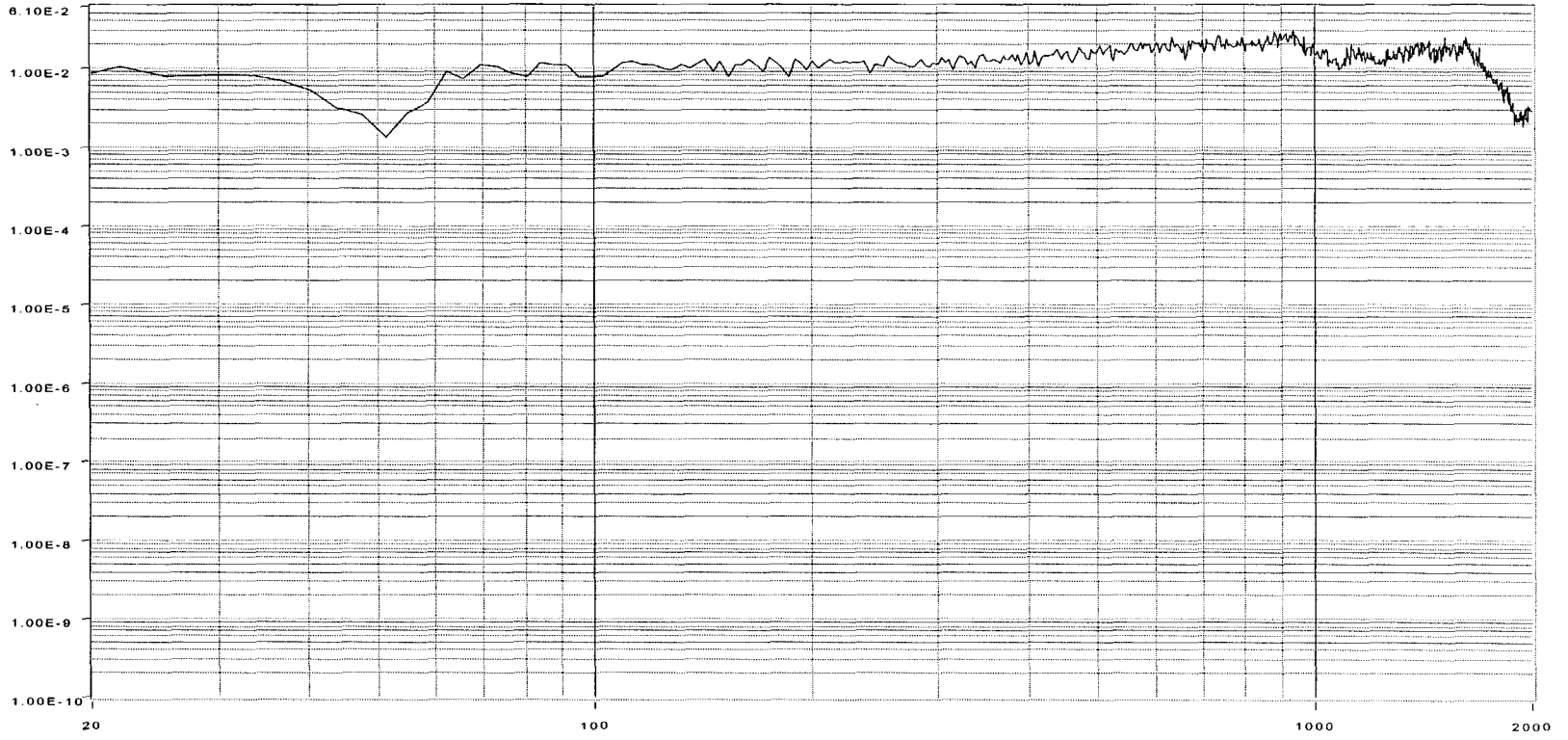
Channel #: 5 Node Number: 0005

Channel Label: South_Control_Y

Channel Description:

Start Time: 94.00

RMS= 5.280E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

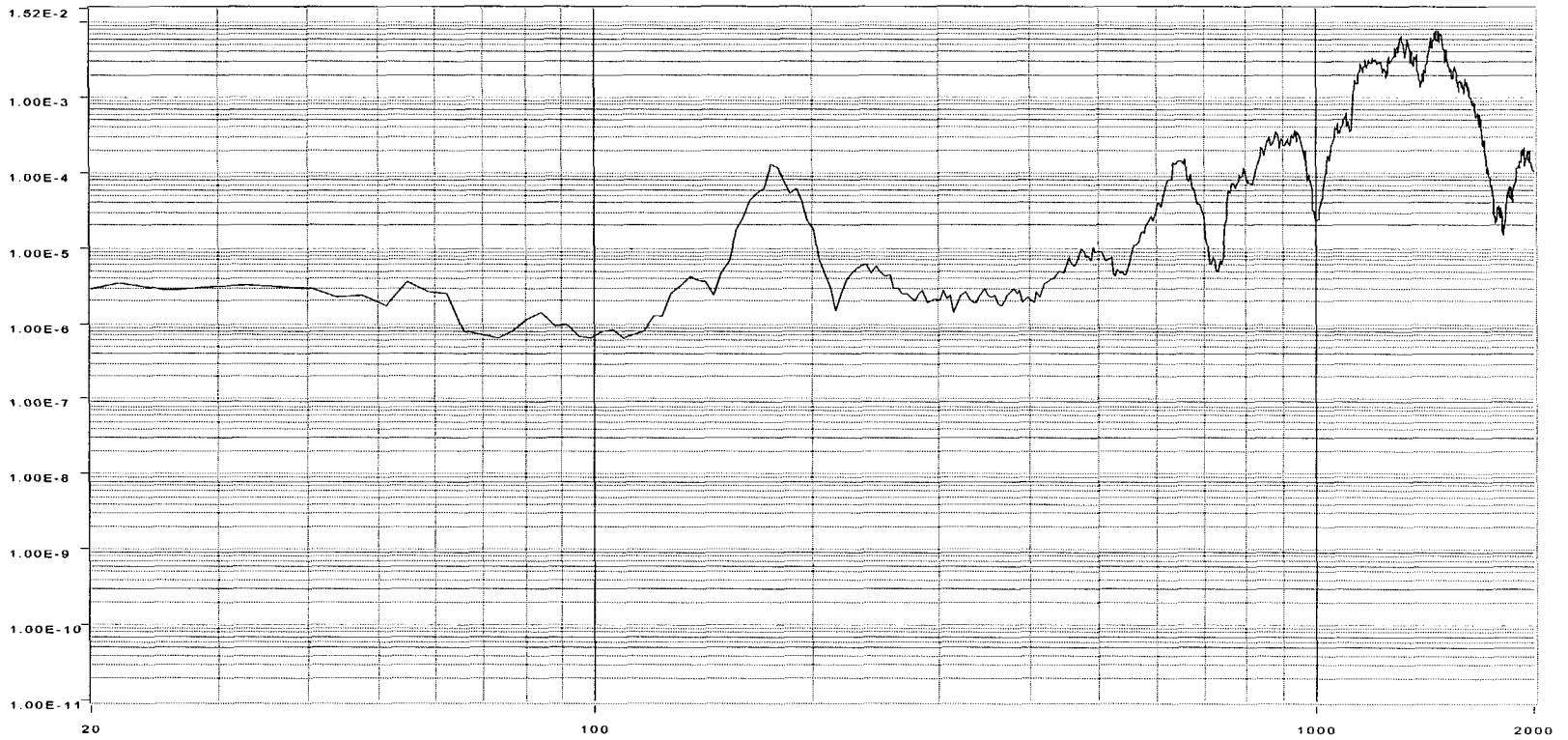
Channel #: 6 Node Number: 0006

Channel Label: South_Control_Z

Channel Description:

Start Time: 94.00

RMS= 1.335E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

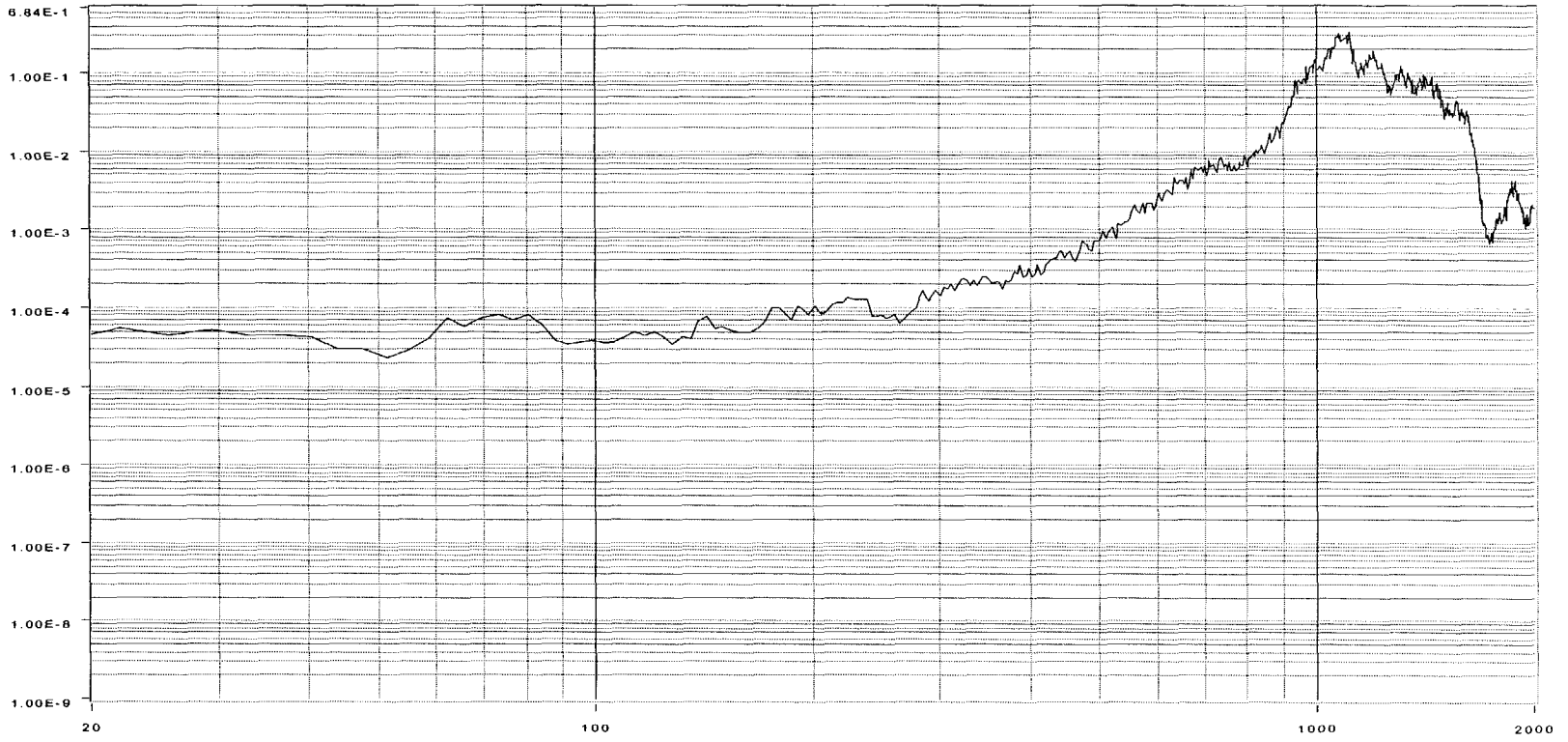
Channel #: 7 **Node Number:** 0007

Channel Label: A5 X

Channel Description:

Start Time: 94.00

RMS= 8.709E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

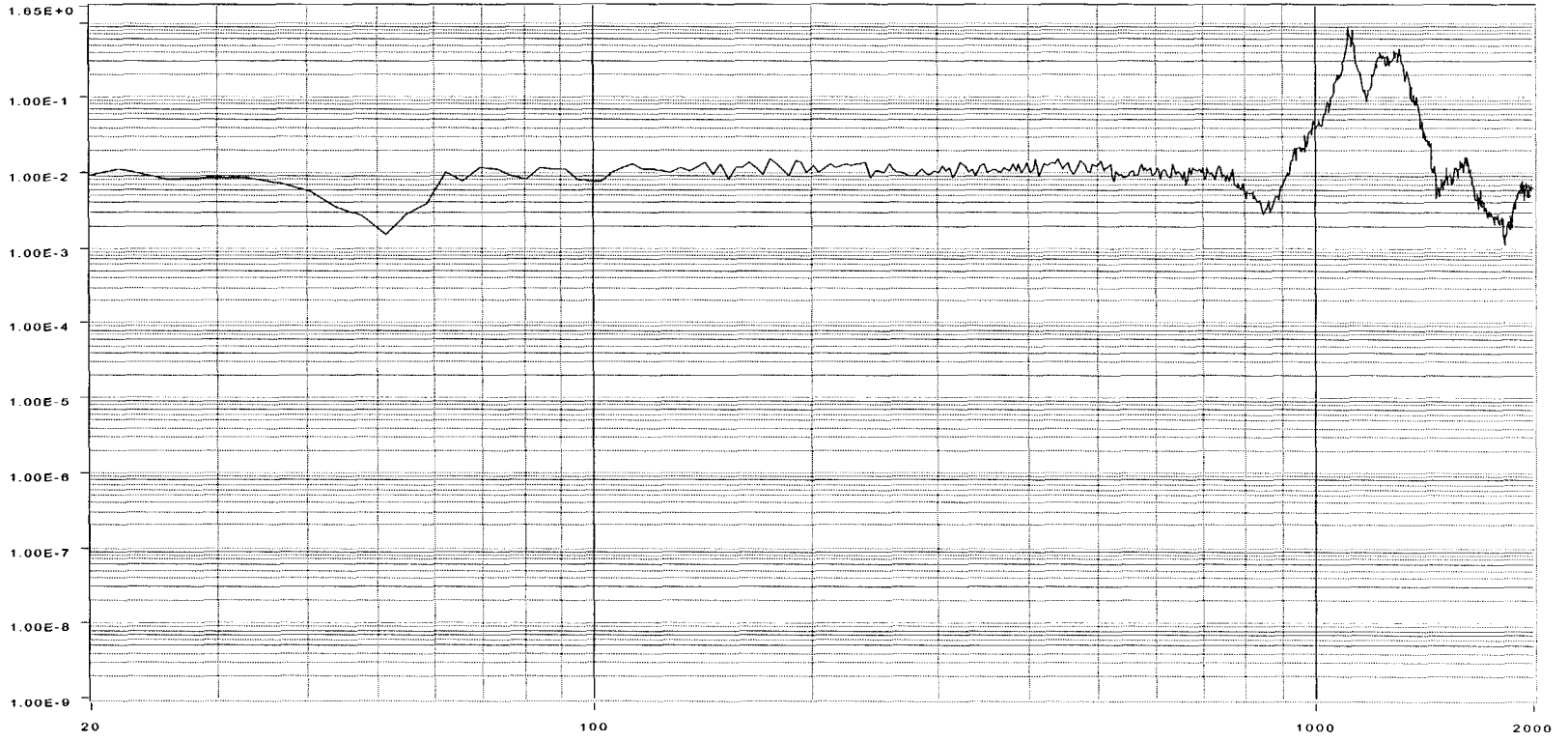
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 94.00

RMS= 1.039E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

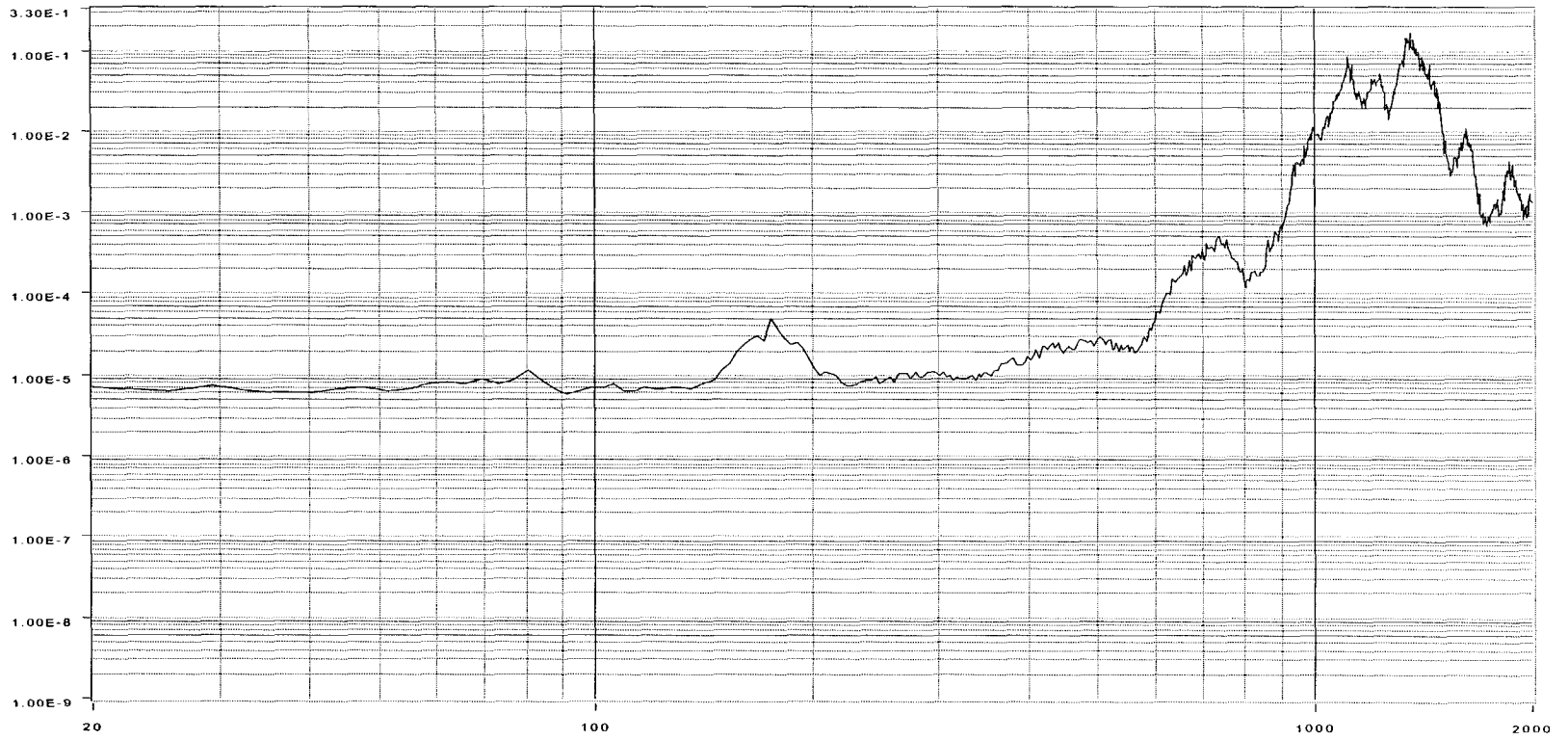
Channel #: 9 Node Number: 0009

Channel Label: A5 Z

Channel Description:

Start Time: 94.00

RMS= 5.006E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

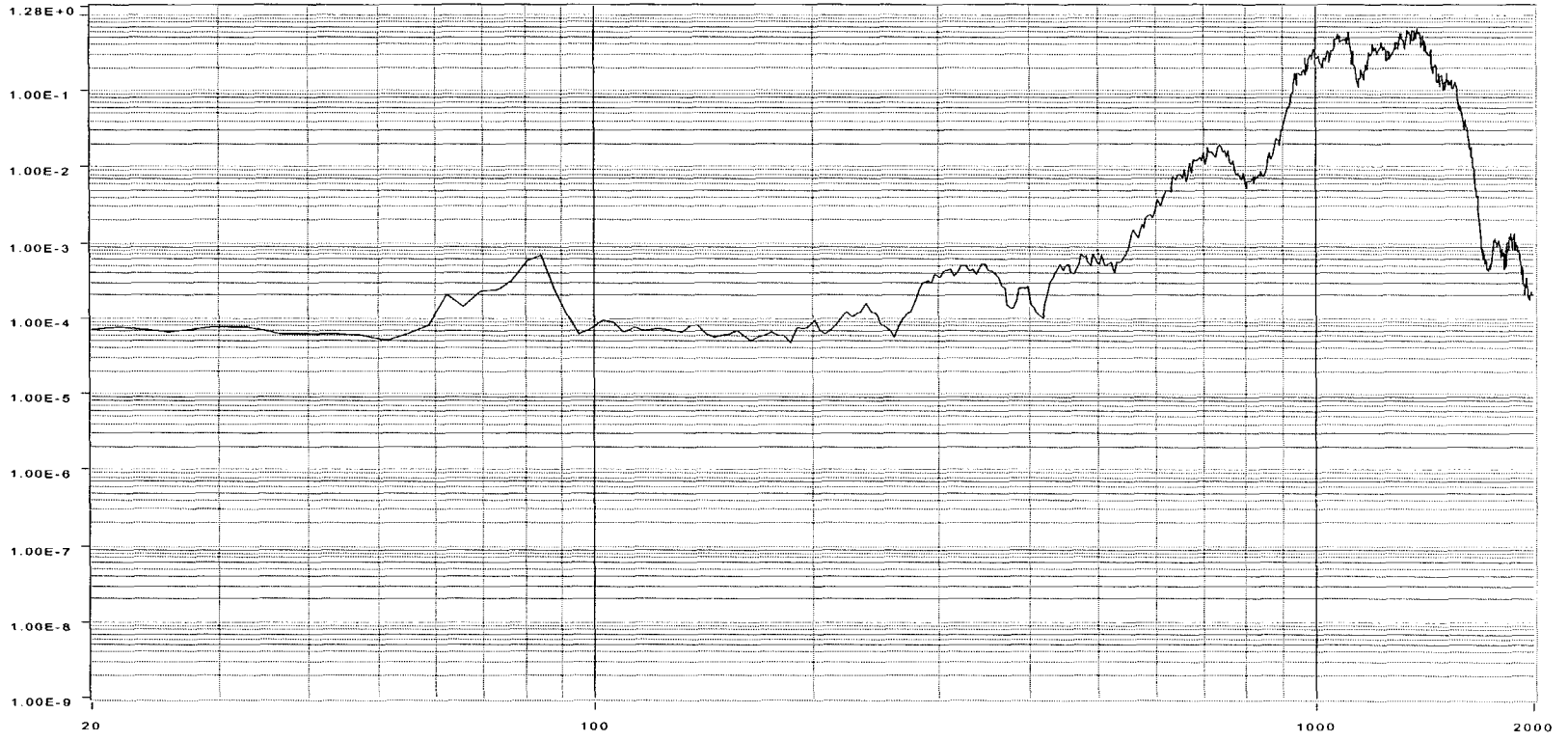
Channel #: 10 Node Number: 0010

Channel Label: A6 X

Channel Description:

Start Time: 94.00

RMS= 1.430E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

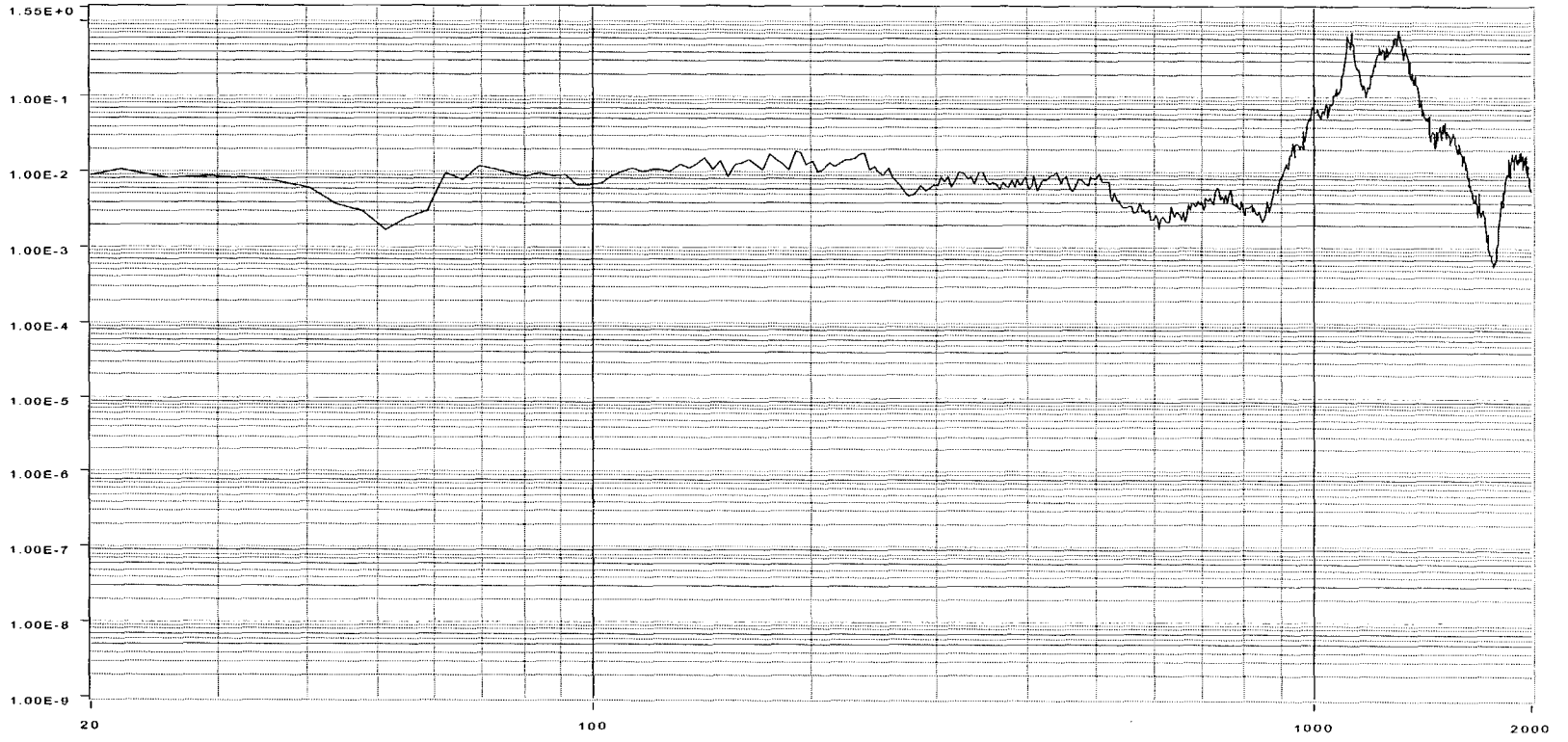
Channel #: 11 Node Number: 0011

Channel Label: A6 Y

Channel Description:

Start Time: 94.00

RMS= 1.145E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

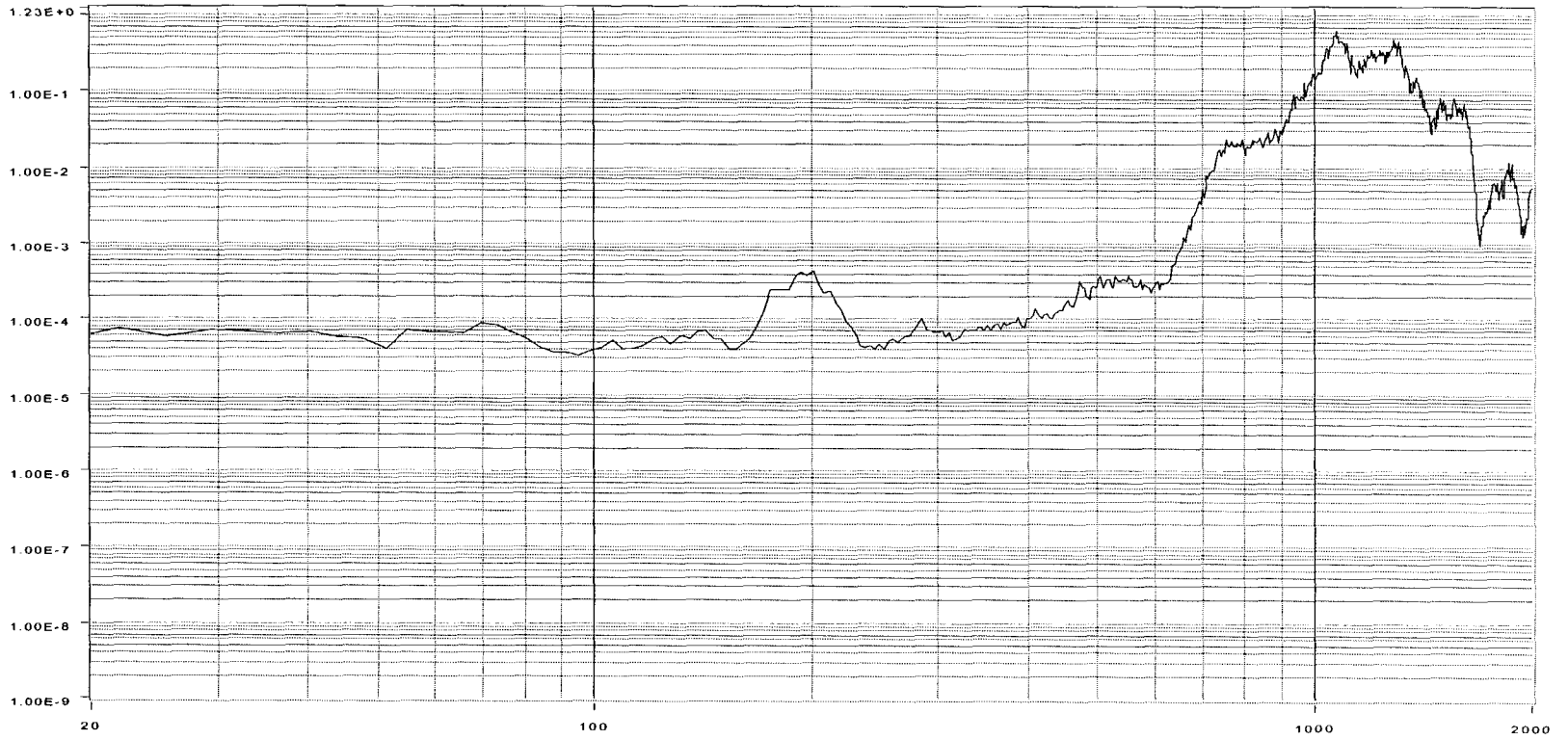
Channel #: 12 Node Number: 0012

Channel Label: A6 Z

Channel Description:

Start Time: 94.00

RMS= 1.185E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

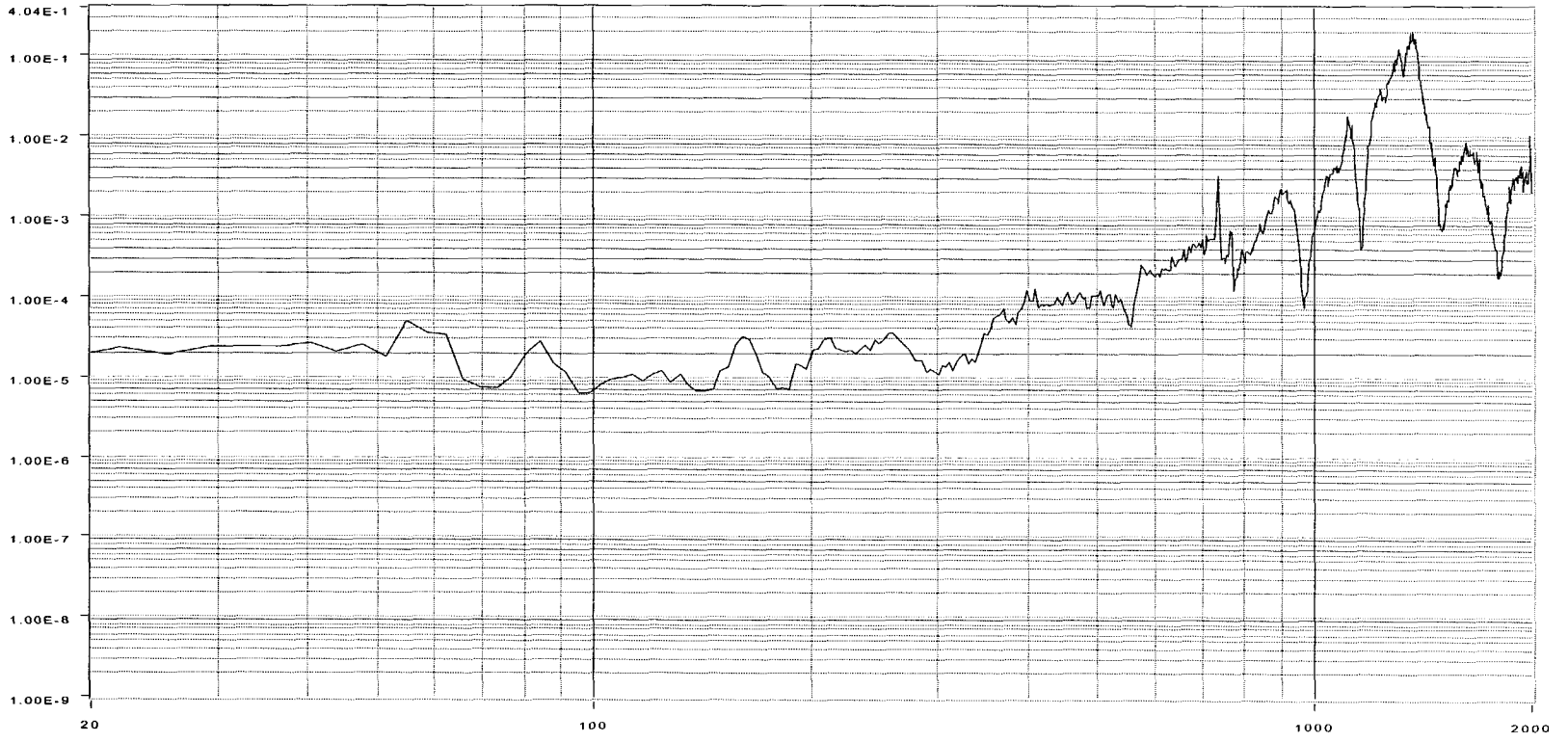
Channel #: 17 **Node Number:** 0017

Channel Label: A7 X

Channel Description:

Start Time: 94.00

RMS= 4.505E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

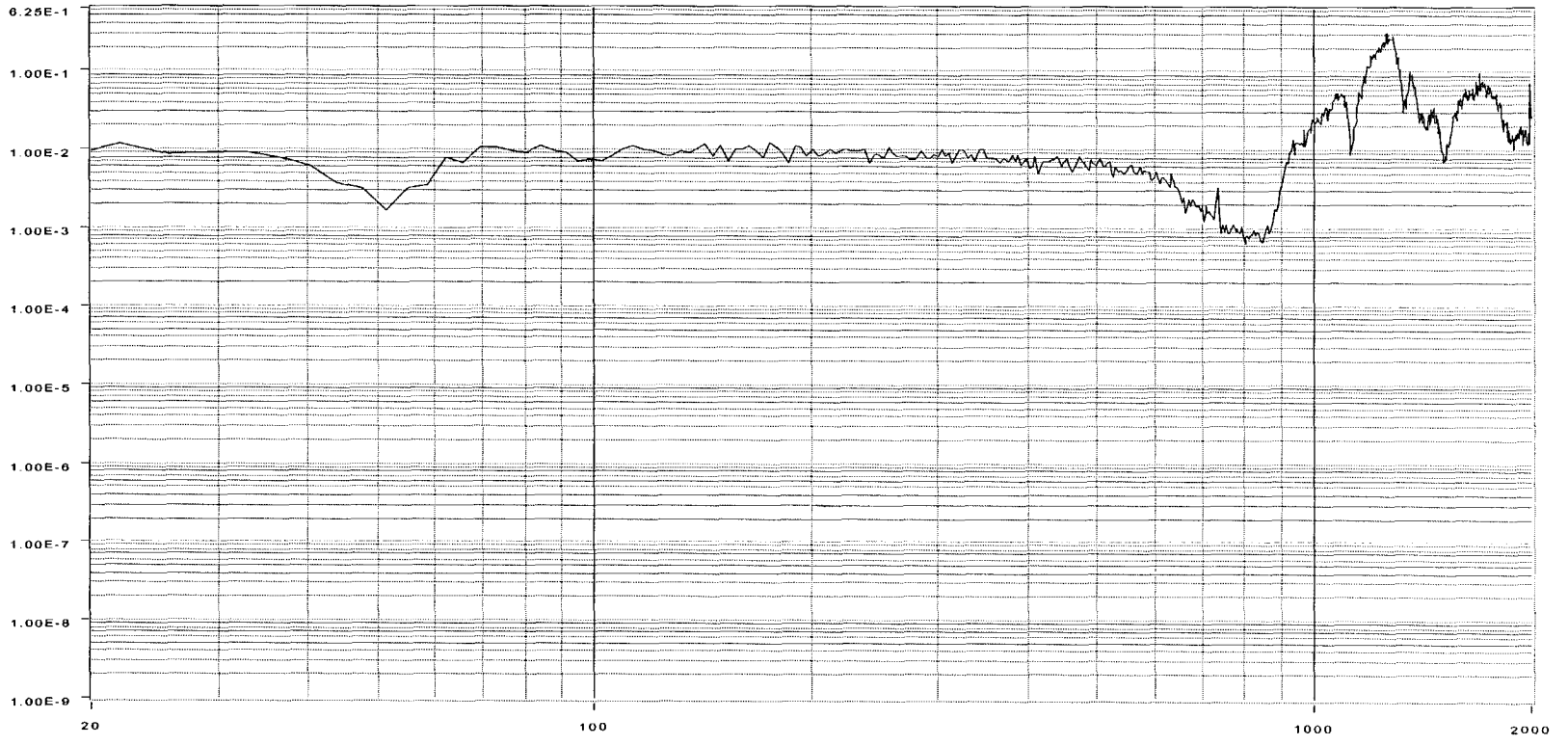
Channel #: 18 Node Number: 0018

Channel Label: A7 Y

Channel Description:

Start Time: 94.00

RMS= 7.921E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

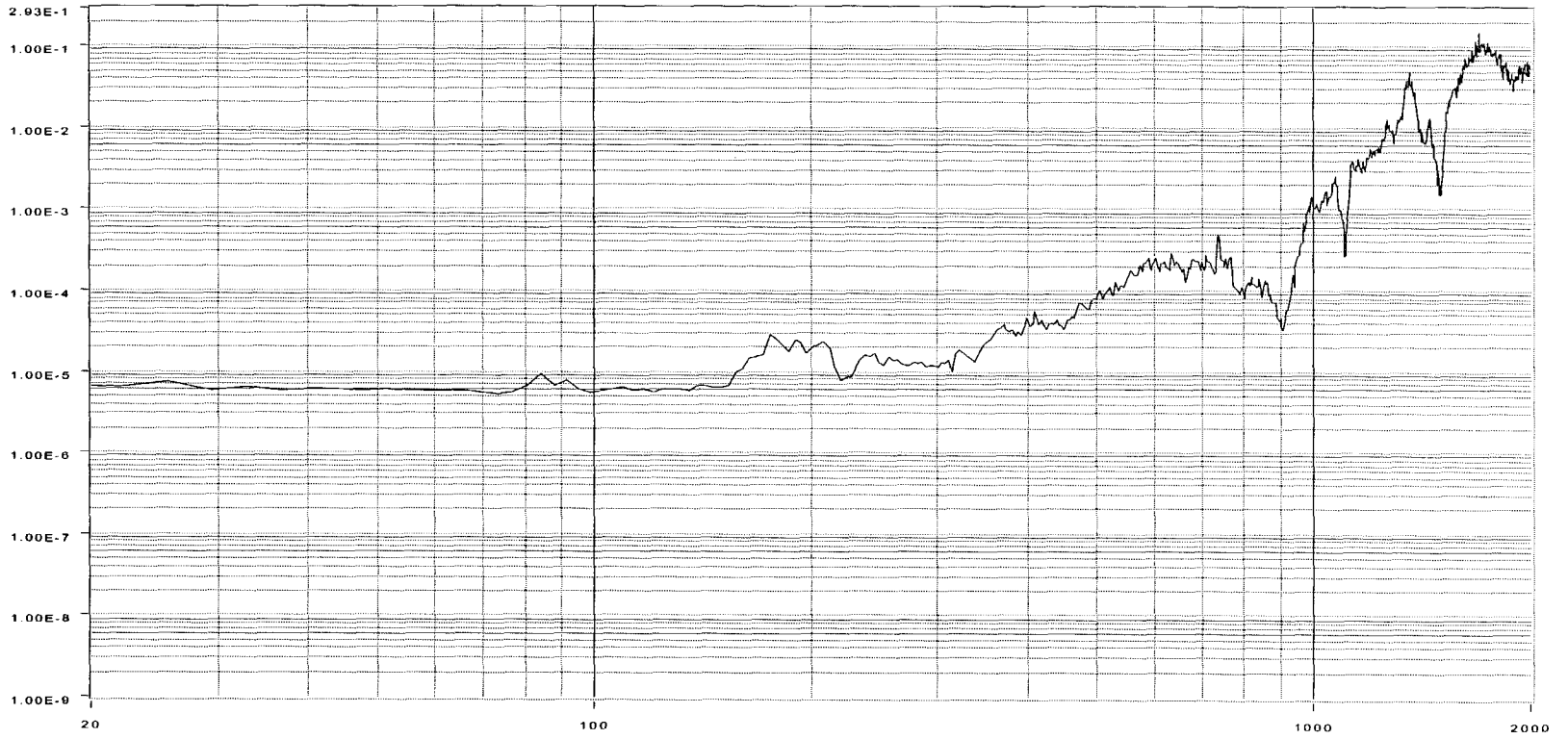
Channel #: 19 Node Number: 0019

Channel Label: A7 Z

Channel Description:

Start Time: 94.00

RMS= 5.720E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

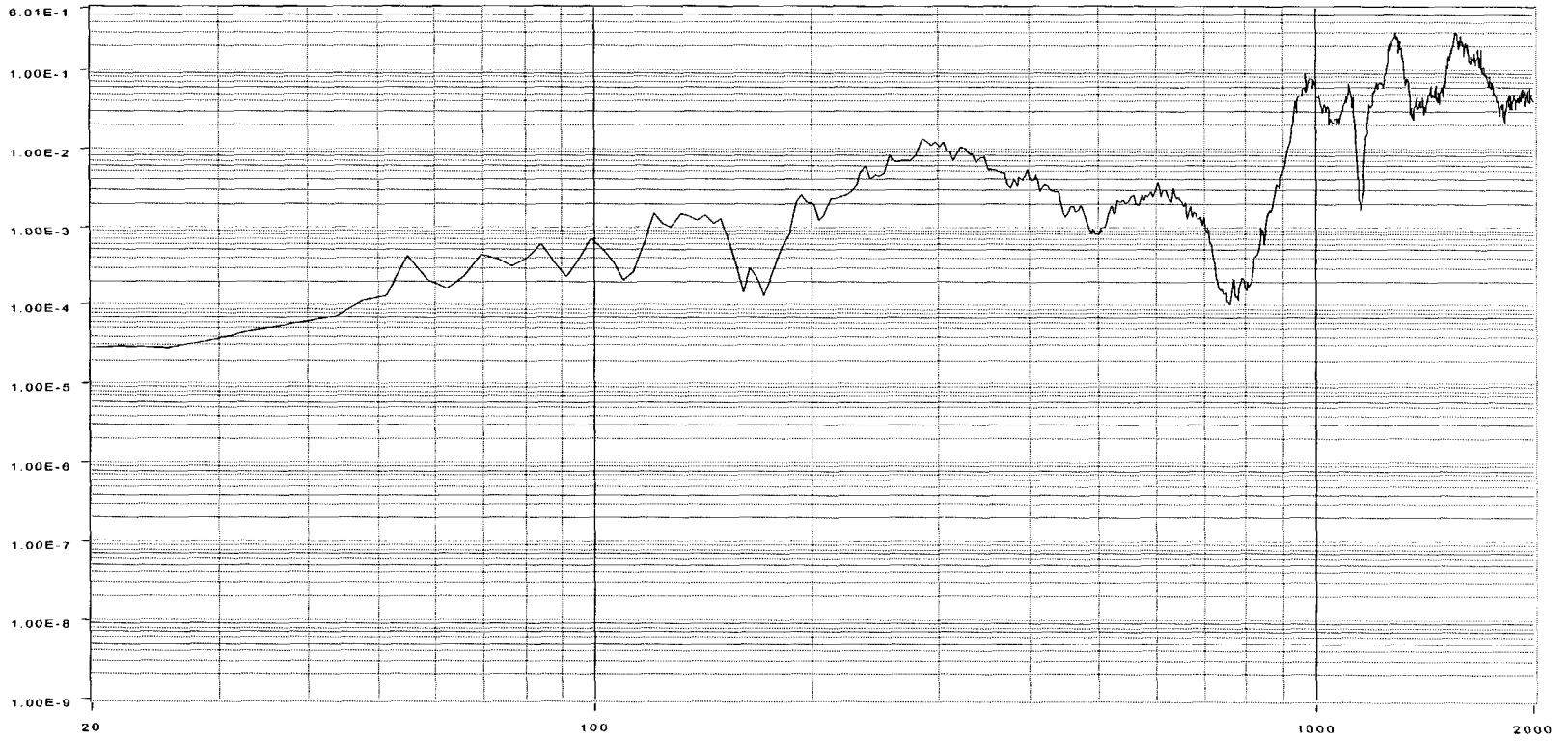
Channel #: 20 Node Number: 0020

Channel Label: A8 X

Channel Description:

Start Time: 94.00

RMS= 9.223E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

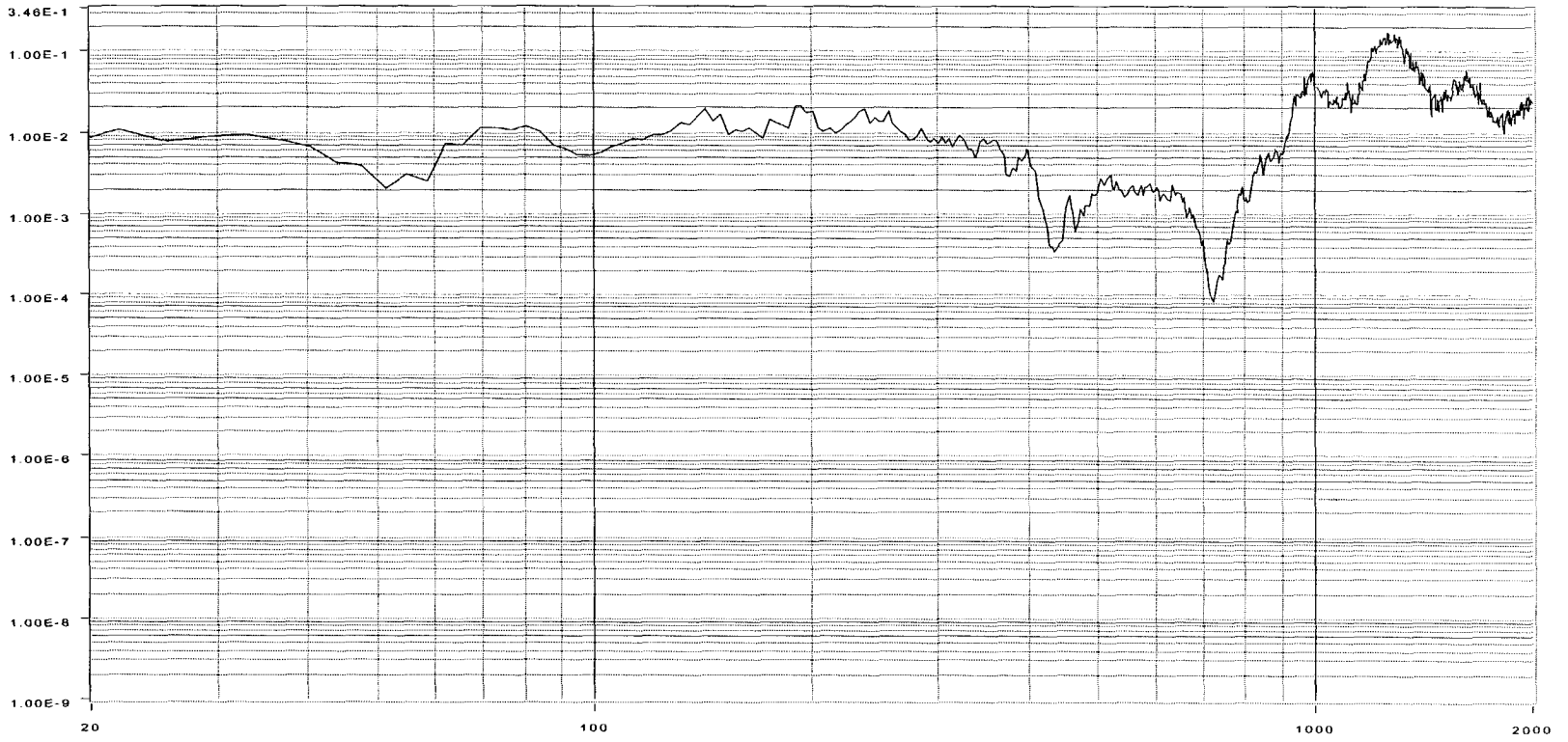
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 94.00

RMS= 7.220E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

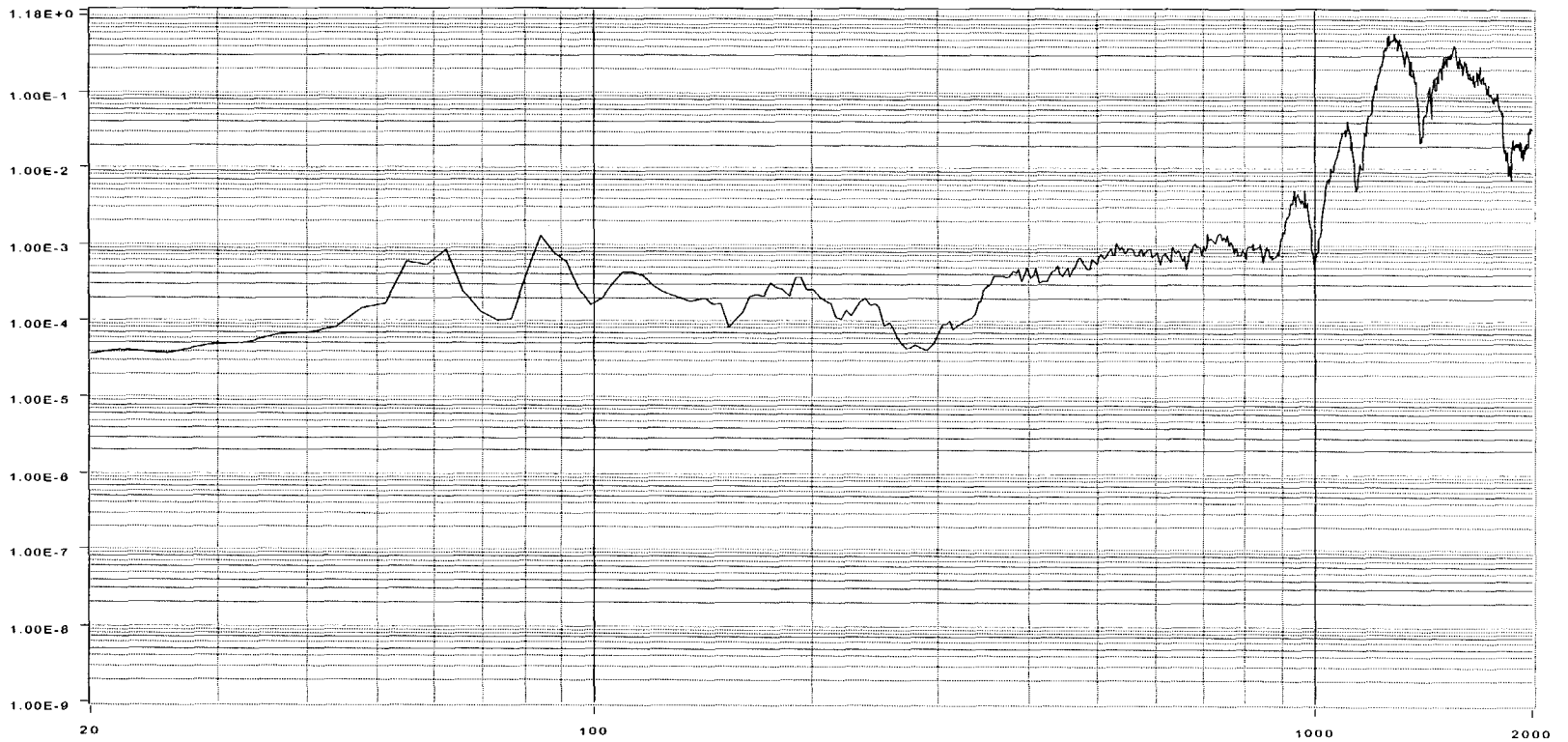
Channel #: 22 Node Number: 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 94.00

RMS= 1.154E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

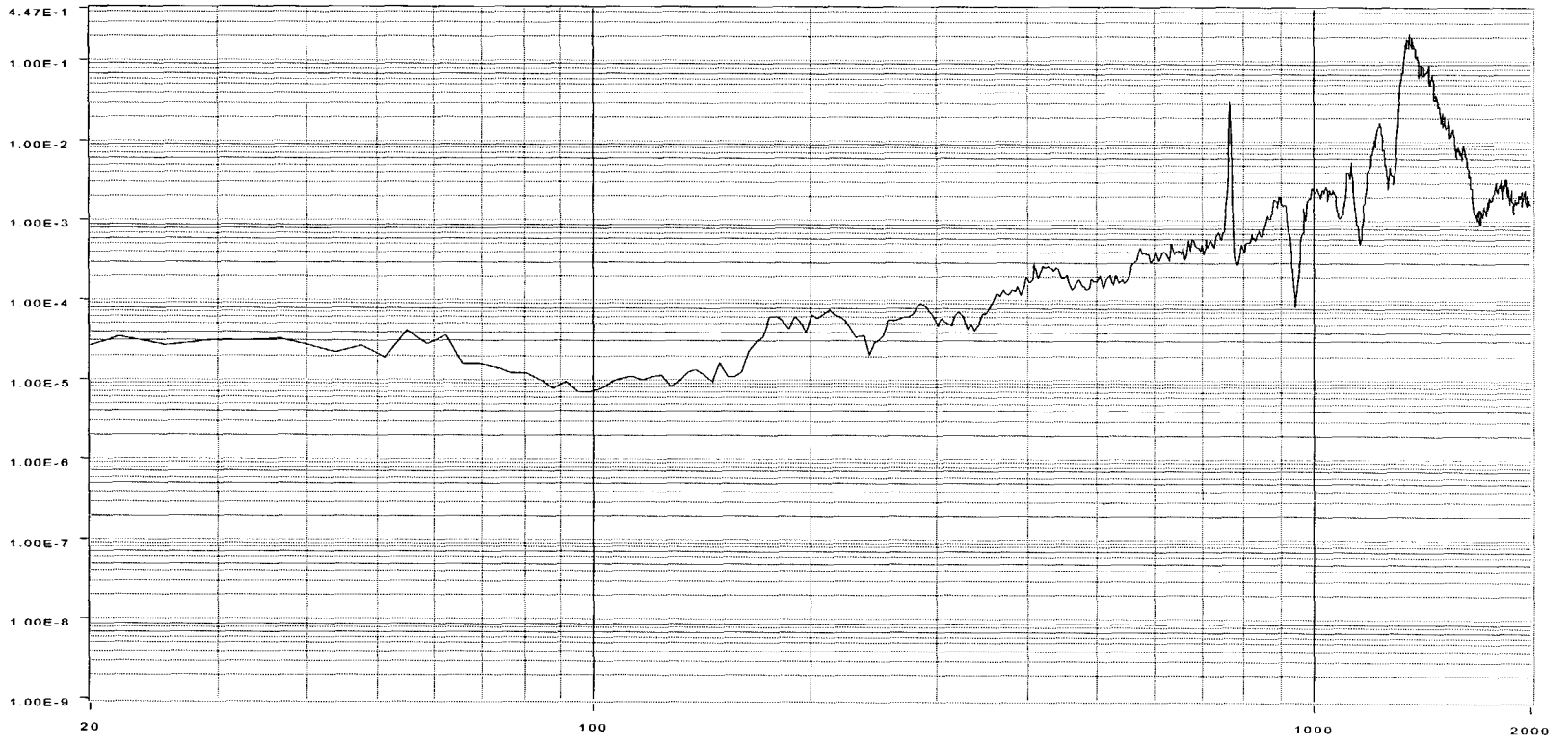
Channel #: 23 Node Number: 0023

Channel Label: A9 X

Channel Description:

Start Time: 94.00

RMS= 4.600E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

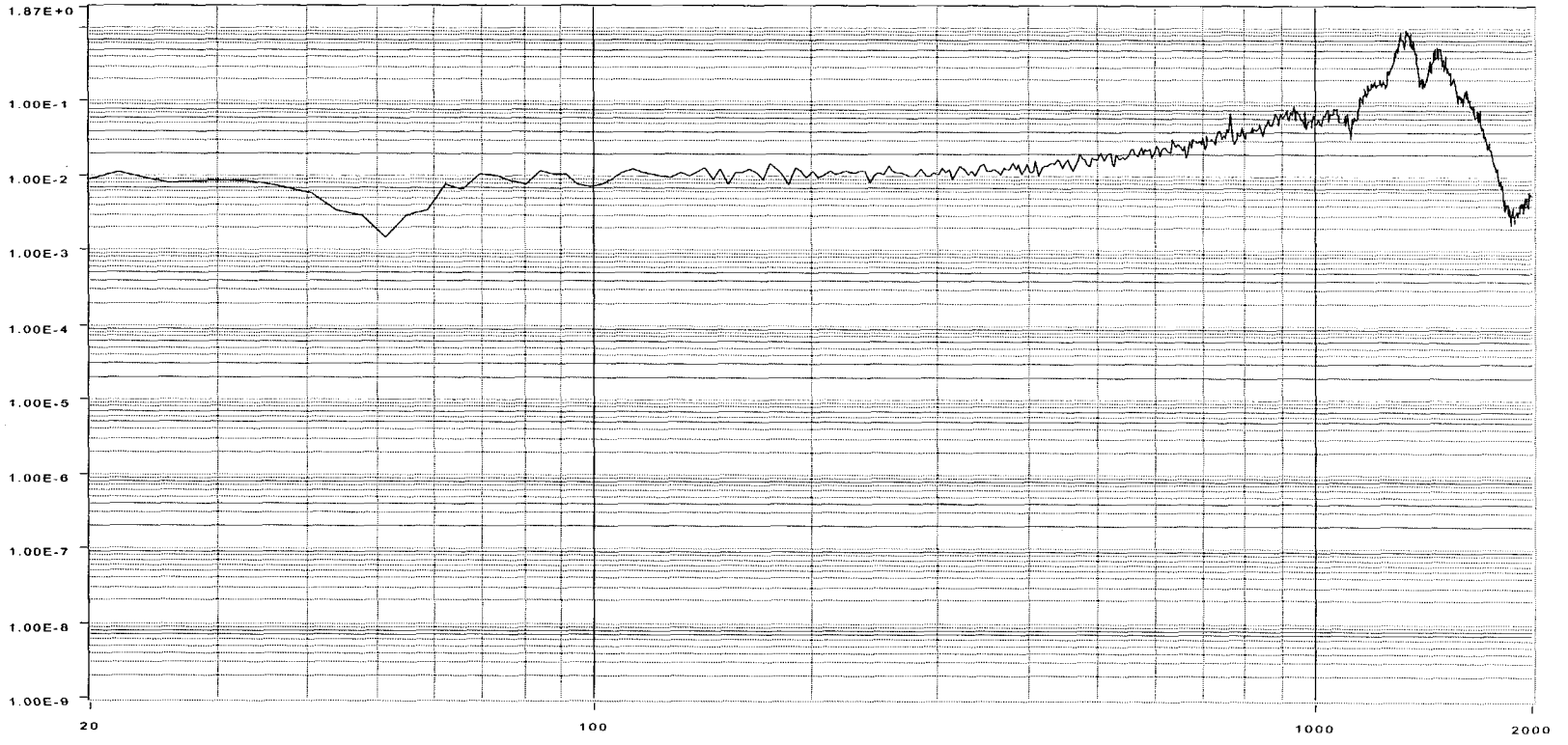
Channel #: 24 Node Number: 0024

Channel Label: A9 Y

Channel Description:

Start Time: 94.00

RMS= 1.383E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

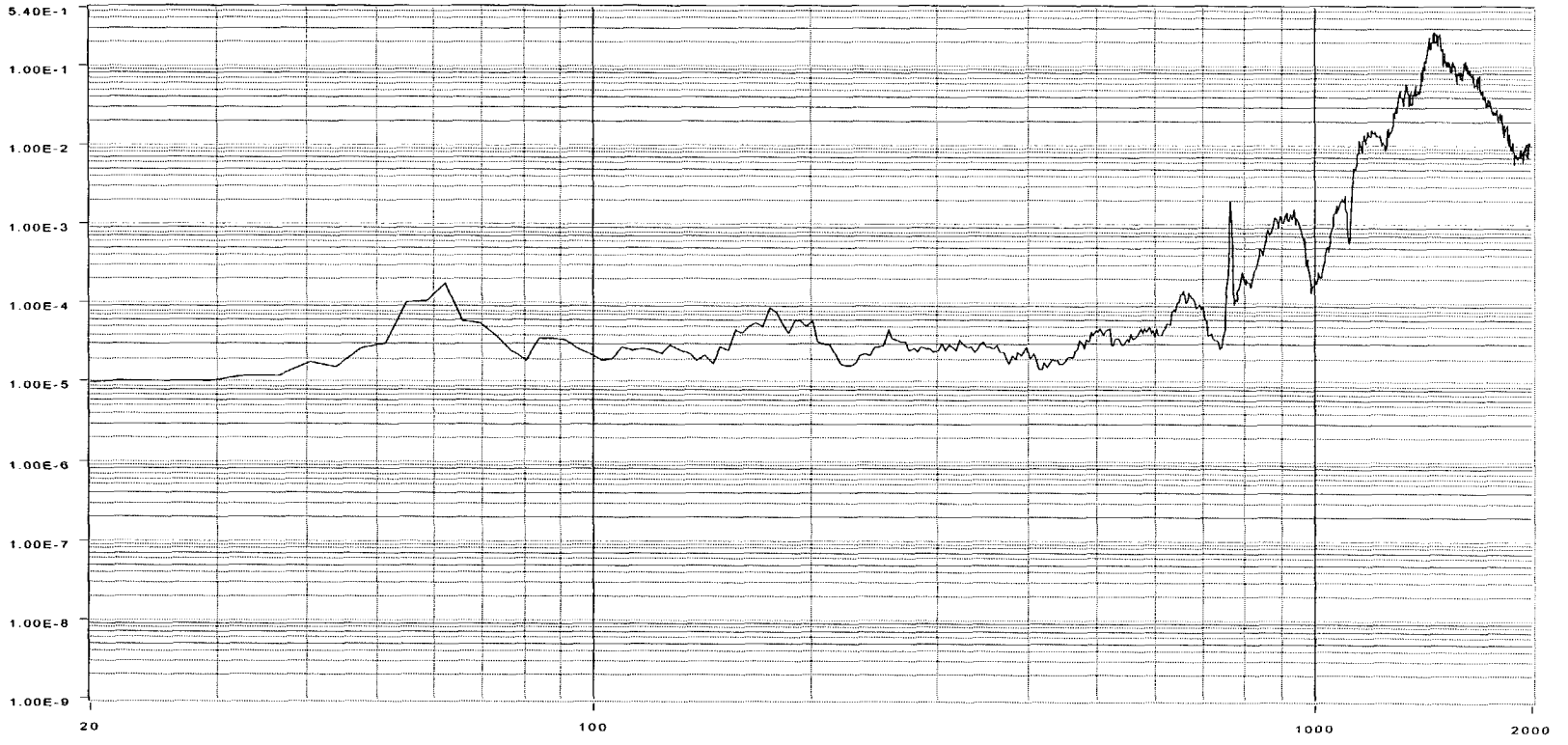
Channel #: 25 Node Number: 0025

Channel Label: A9 Z

Channel Description:

Start Time: 94.00

RMS= 6.870E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

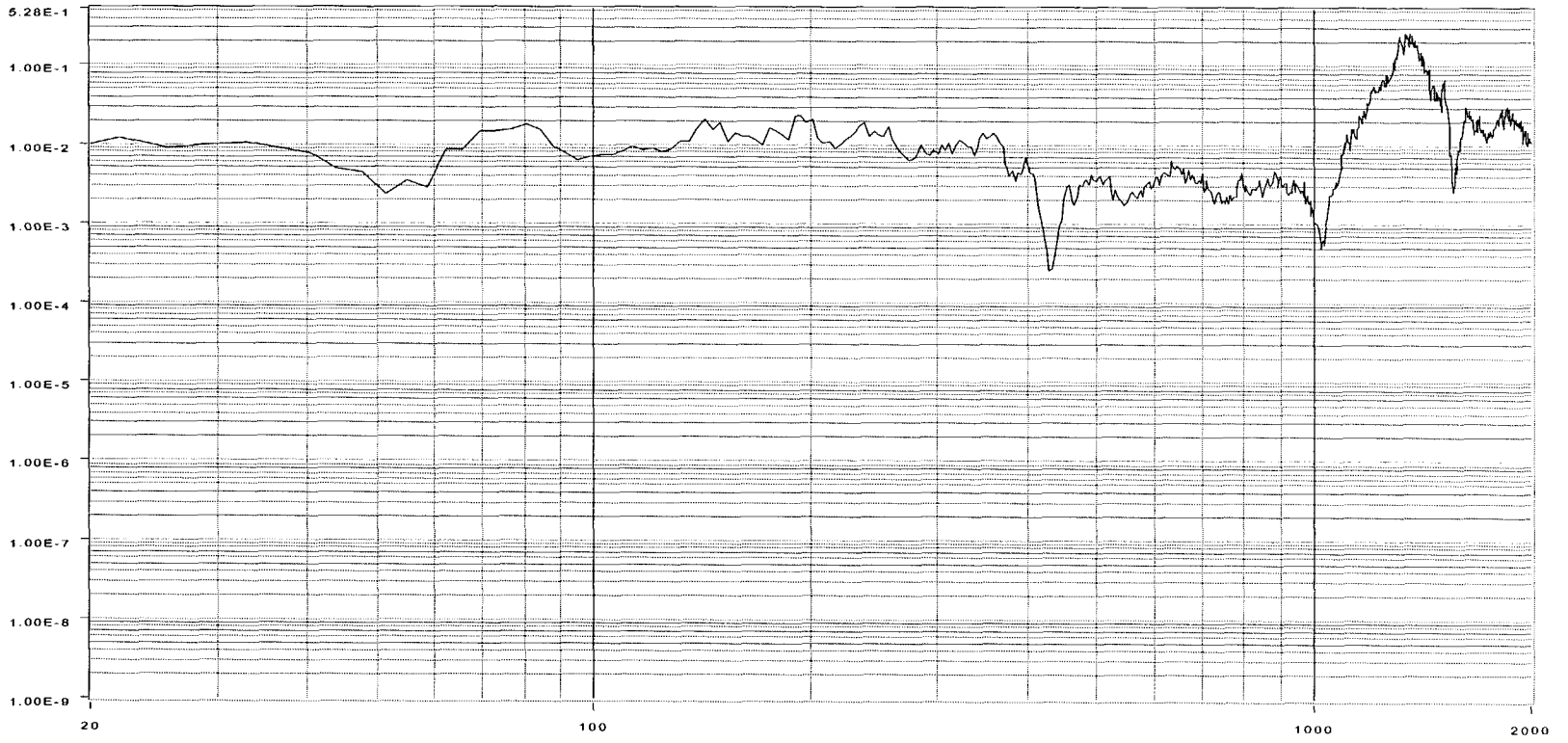
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 94.00

RMS= 7.144E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

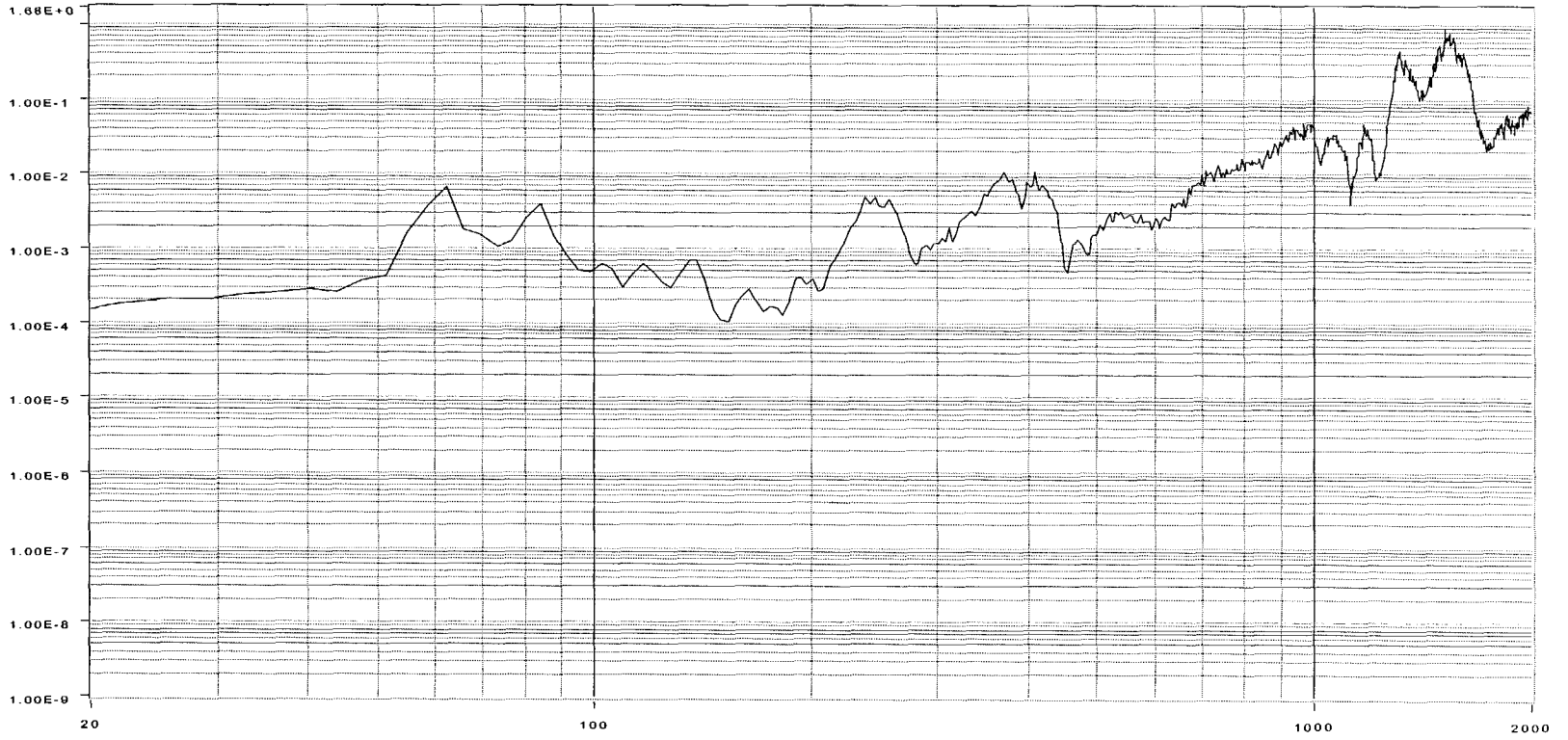
Channel #: 27 Node Number: 0027

Channel Label: A10 Y

Channel Description:

Start Time: 94.00

RMS= 1.225E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

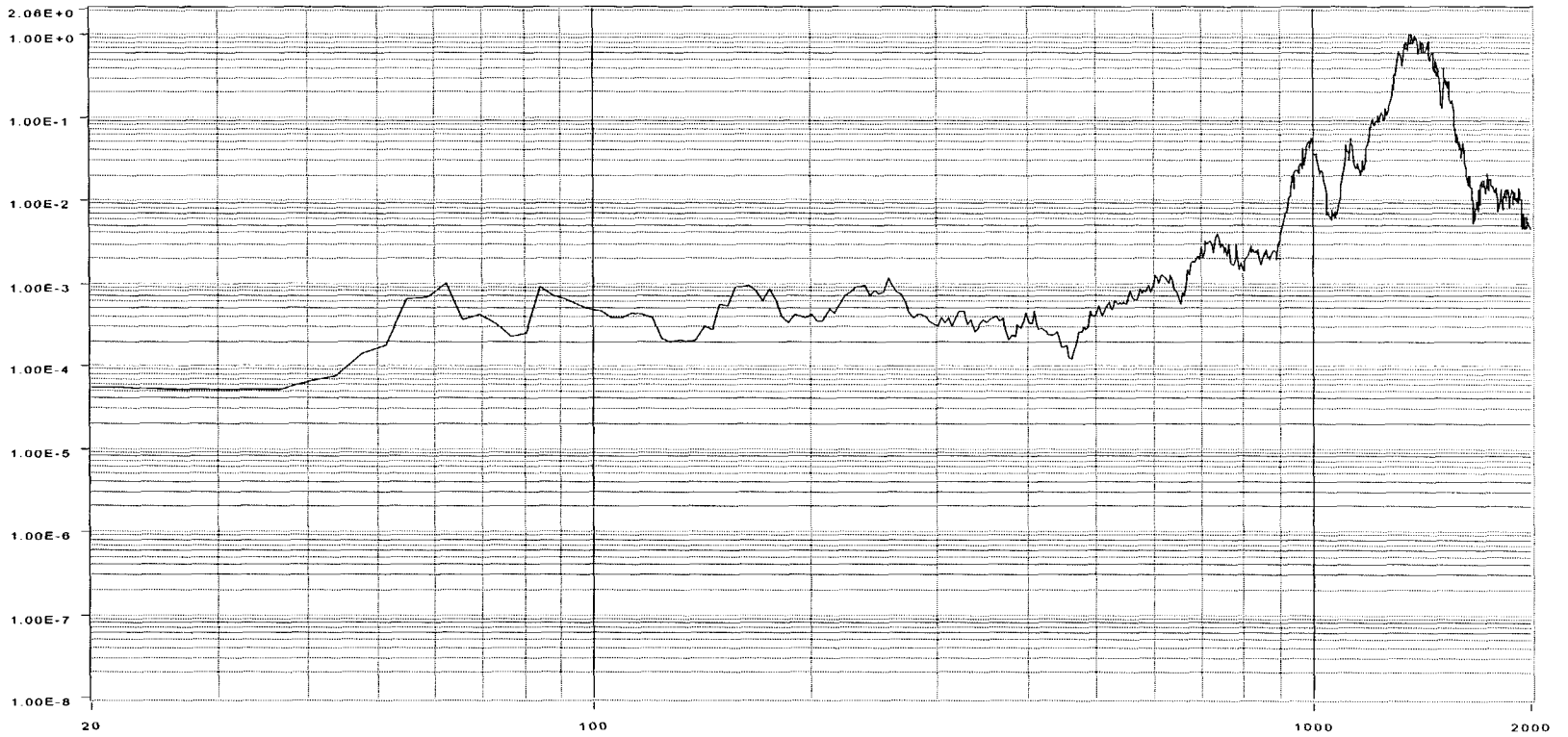
Channel #: 28 Node Number: 0028

Channel Label: A10 Z

Channel Description:

Start Time: 94.00

RMS= 1.292E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

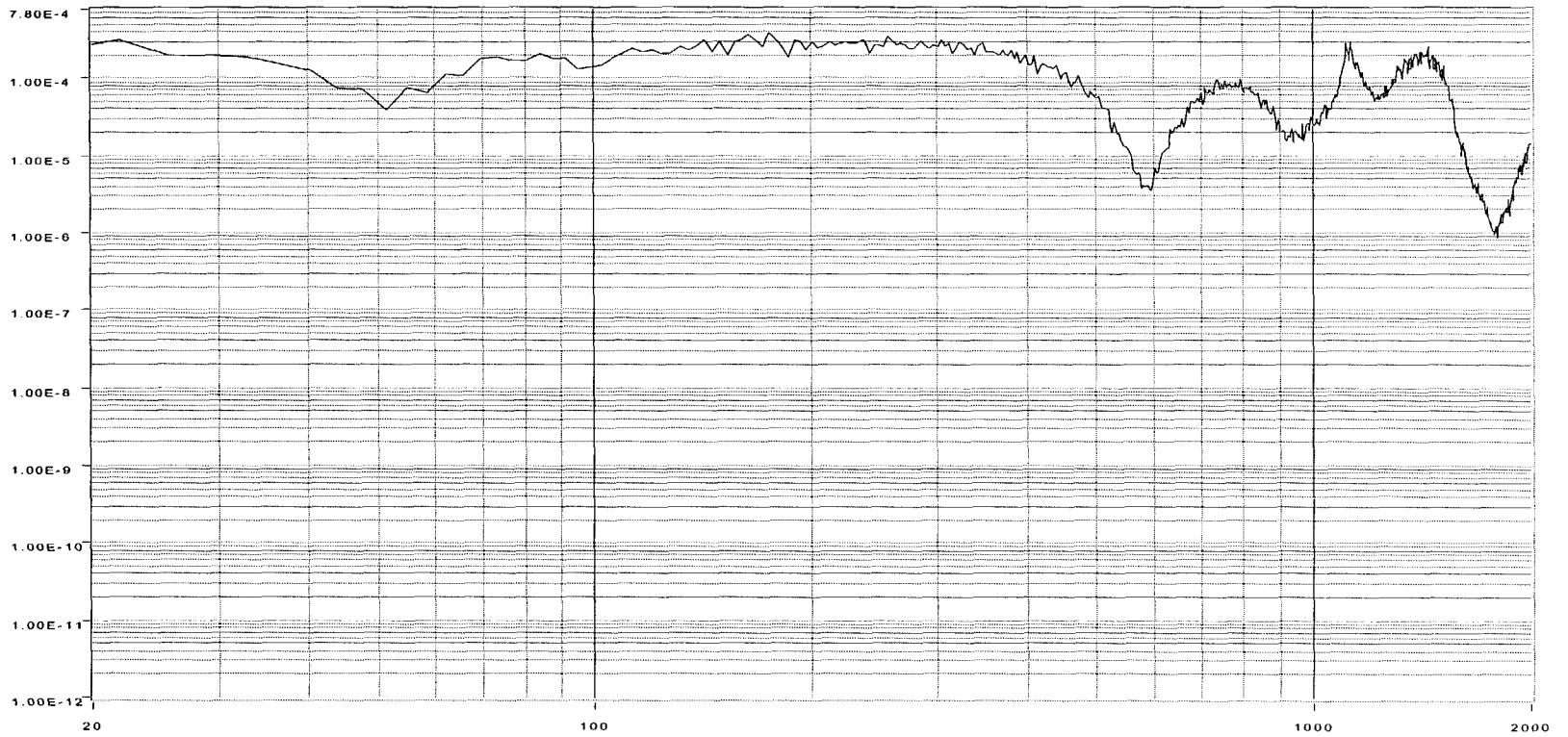
Channel #: 31 Node Number: 0031

Channel Label: DRIVE

Channel Description:

Start Time: 94.00

RMS= 4.320E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

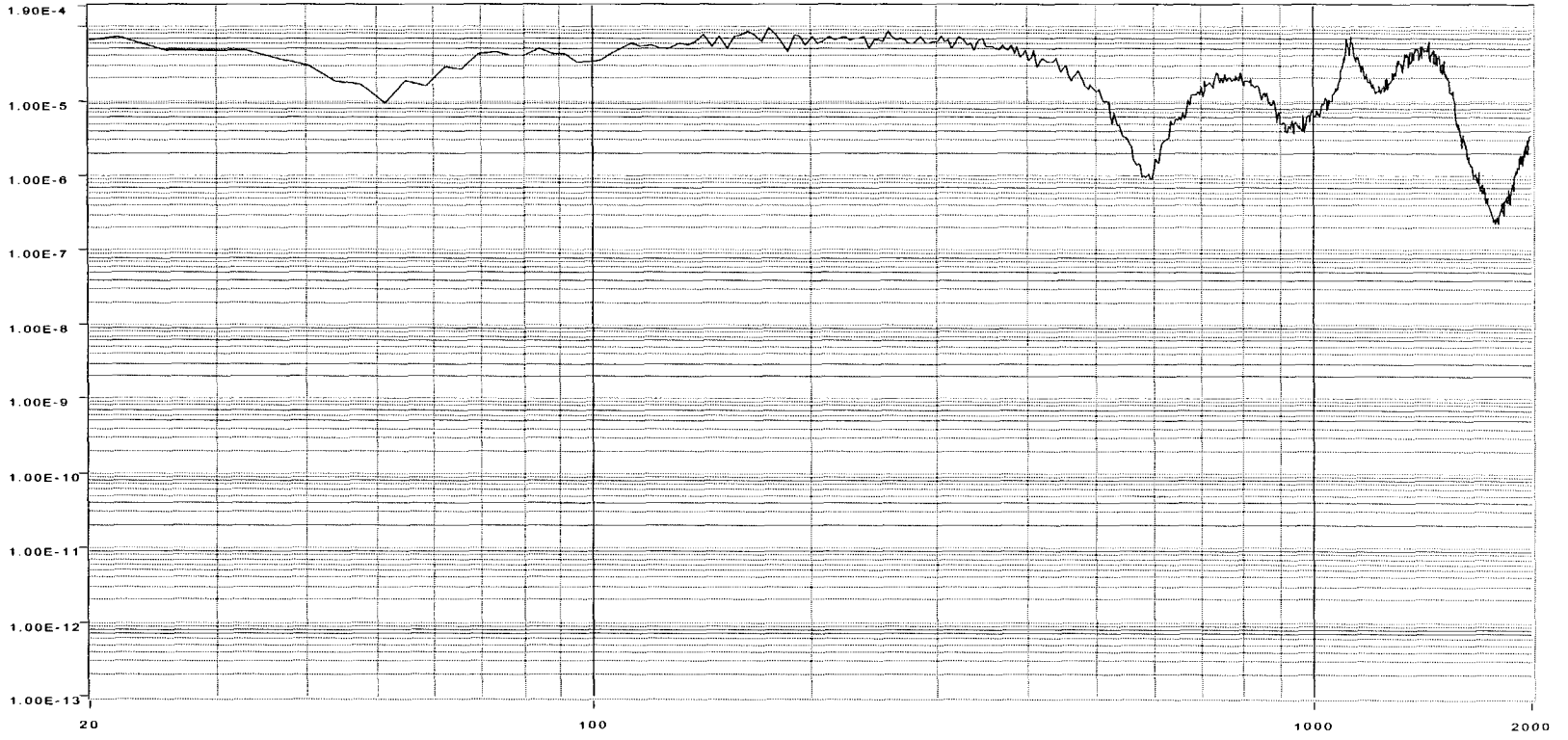
Channel #: 32 Node Number: 0032

Channel Label: COLA

Channel Description:

Start Time: 94.00

RMS= 2.131E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/24/02 9:27 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

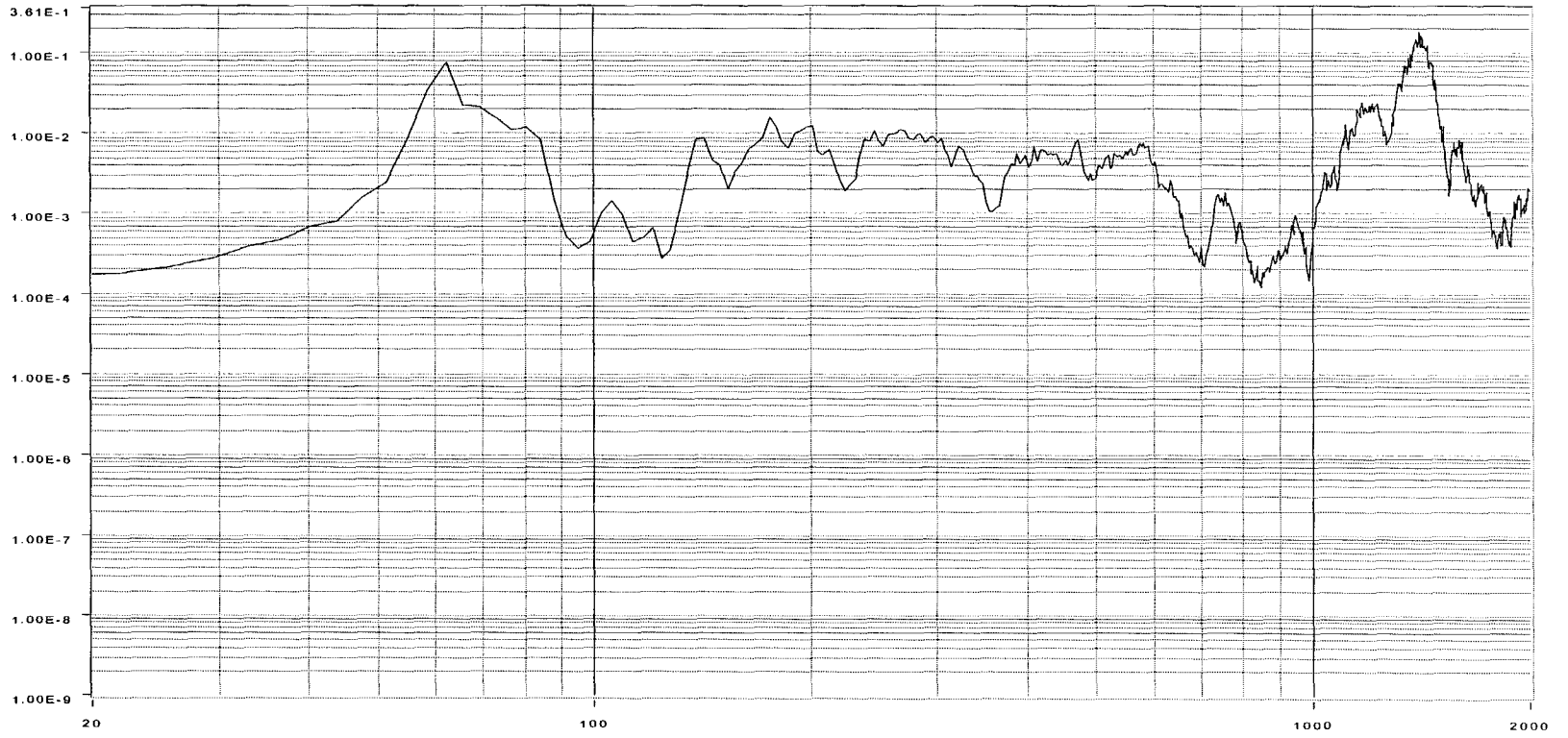
Channel #: 33 **Node Number:** 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 94.00

RMS= 4.898E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

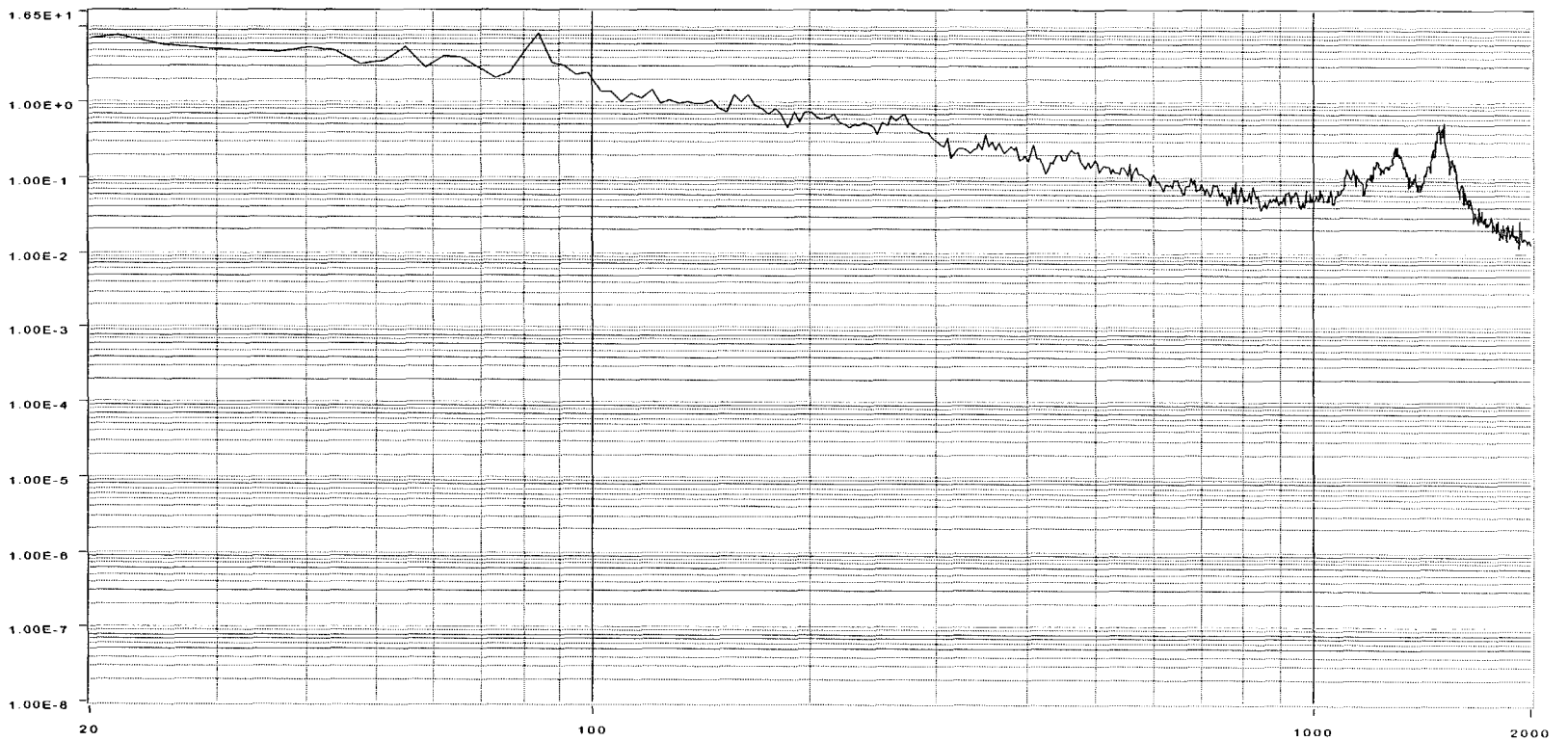
Channel #: 34 Node Number: 0034

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 94.00

RMS= 2.596E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

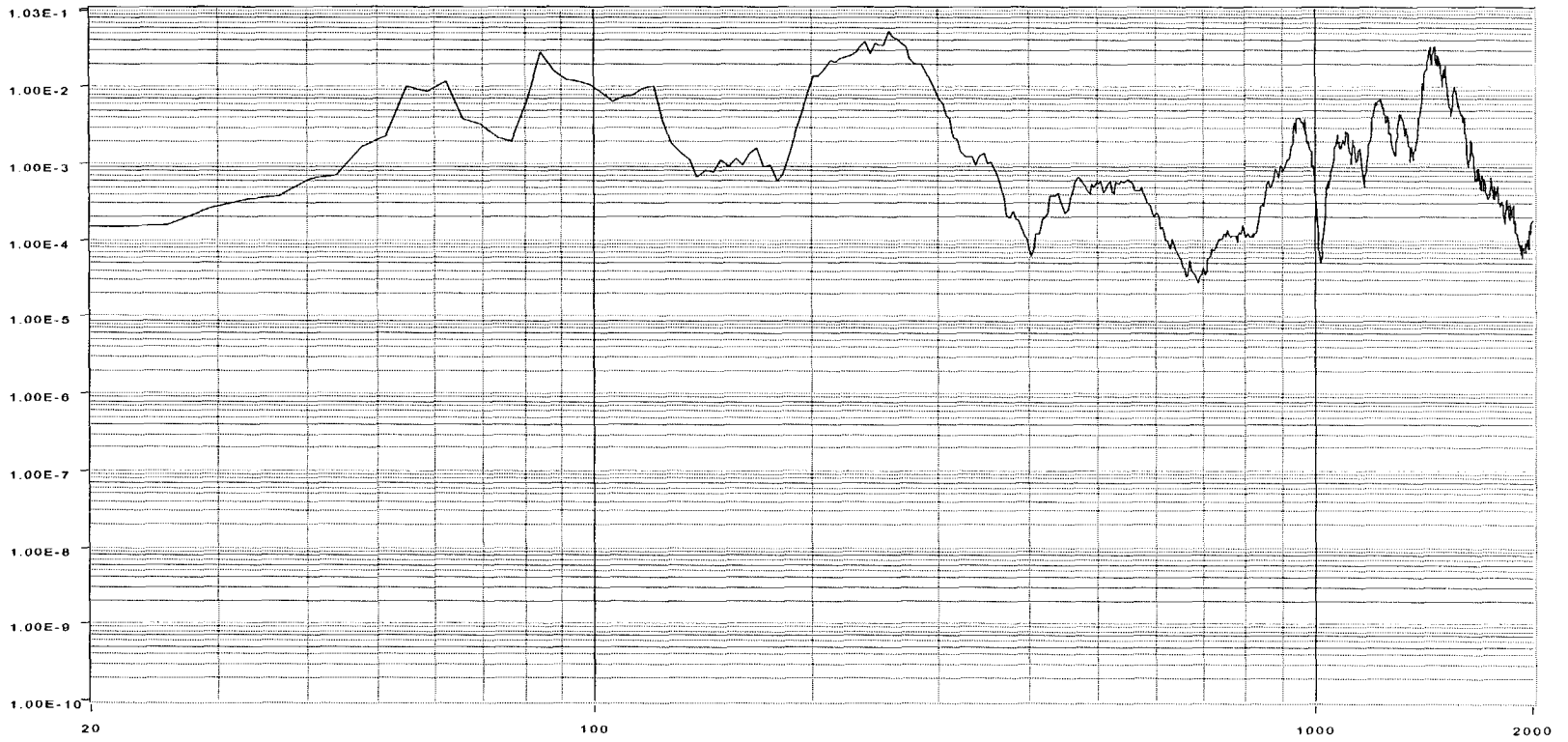
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 94.00

RMS= 2.831E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

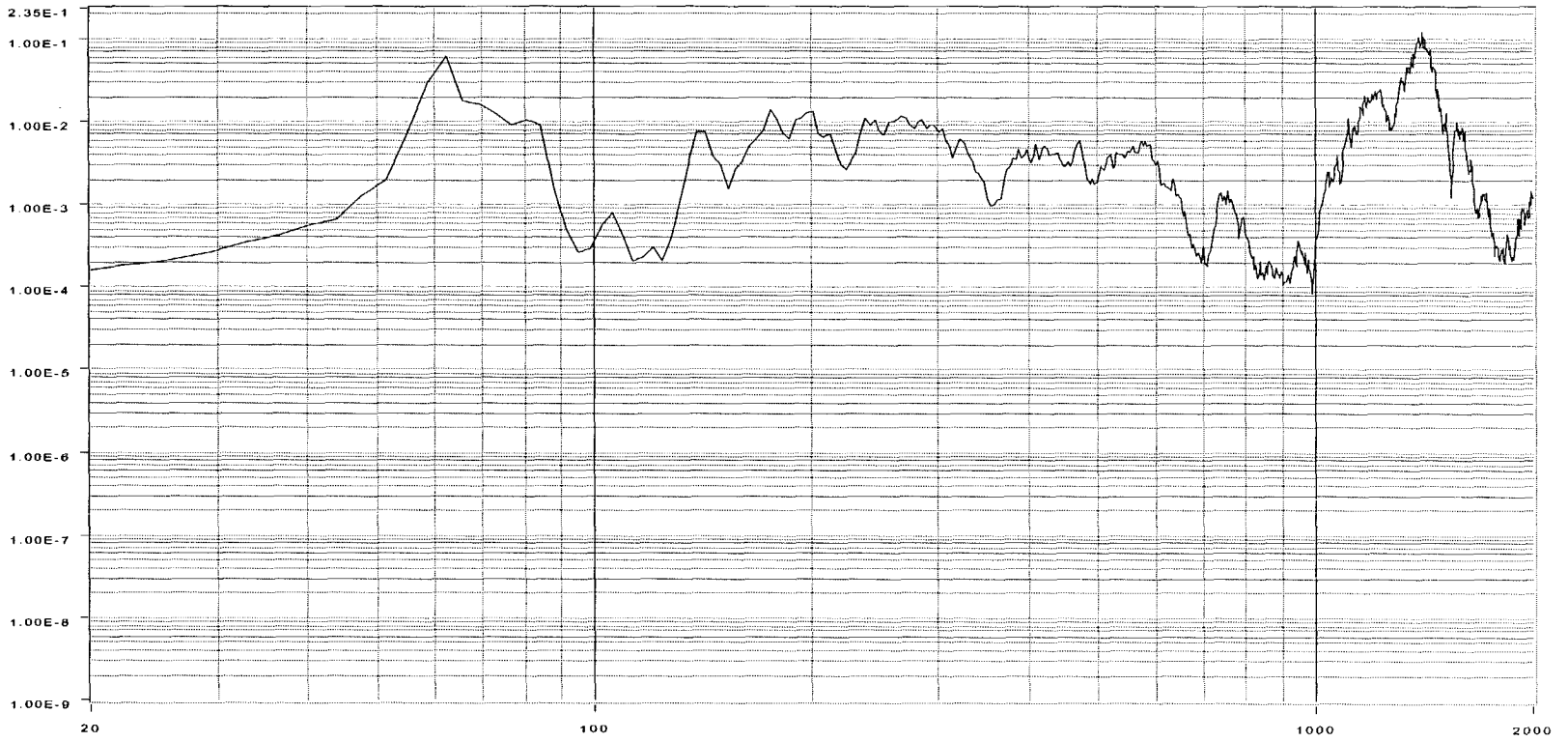
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 94.00

RMS= 4.224E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

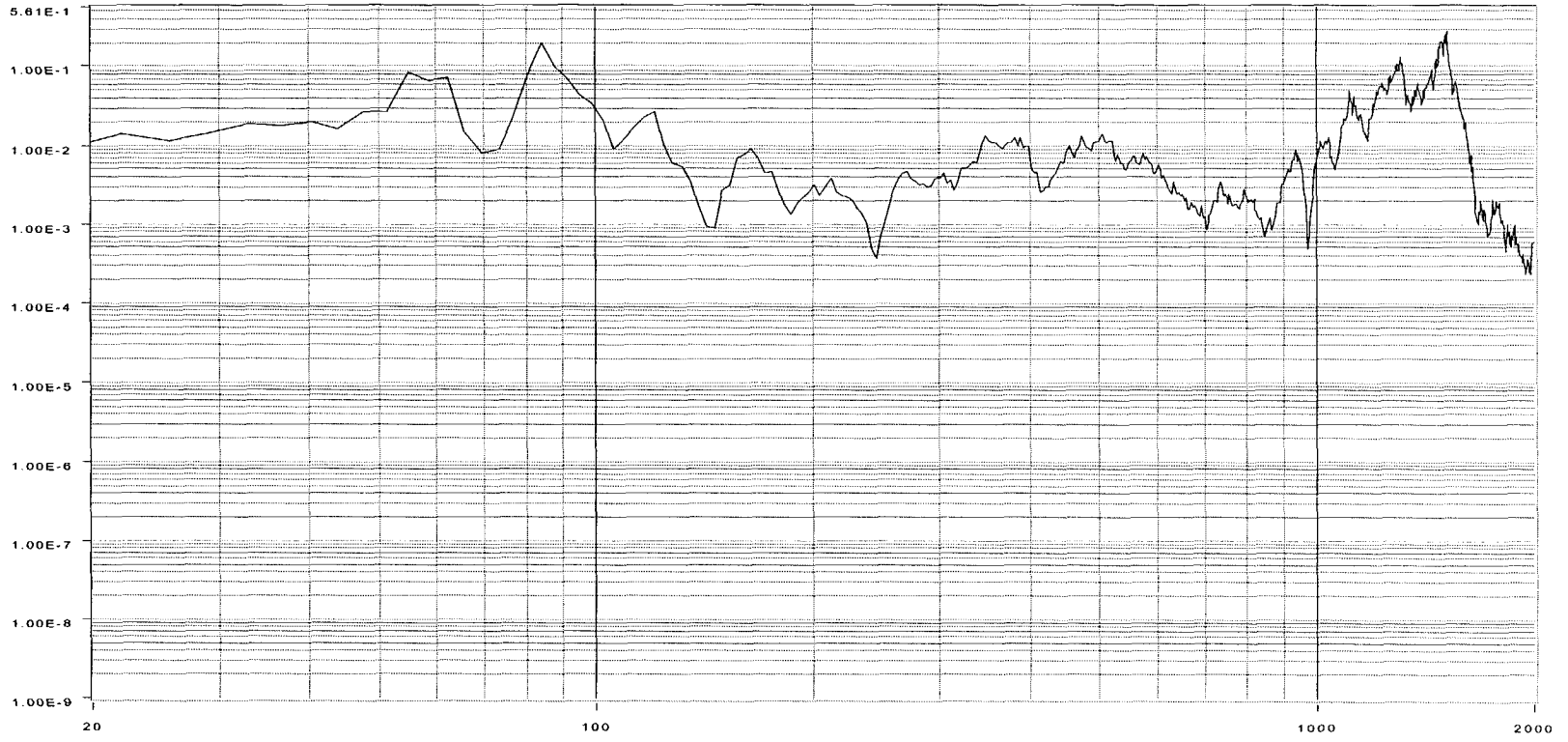
Channel #: 37 **Node Number:** 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 94.00

RMS= 6.571E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

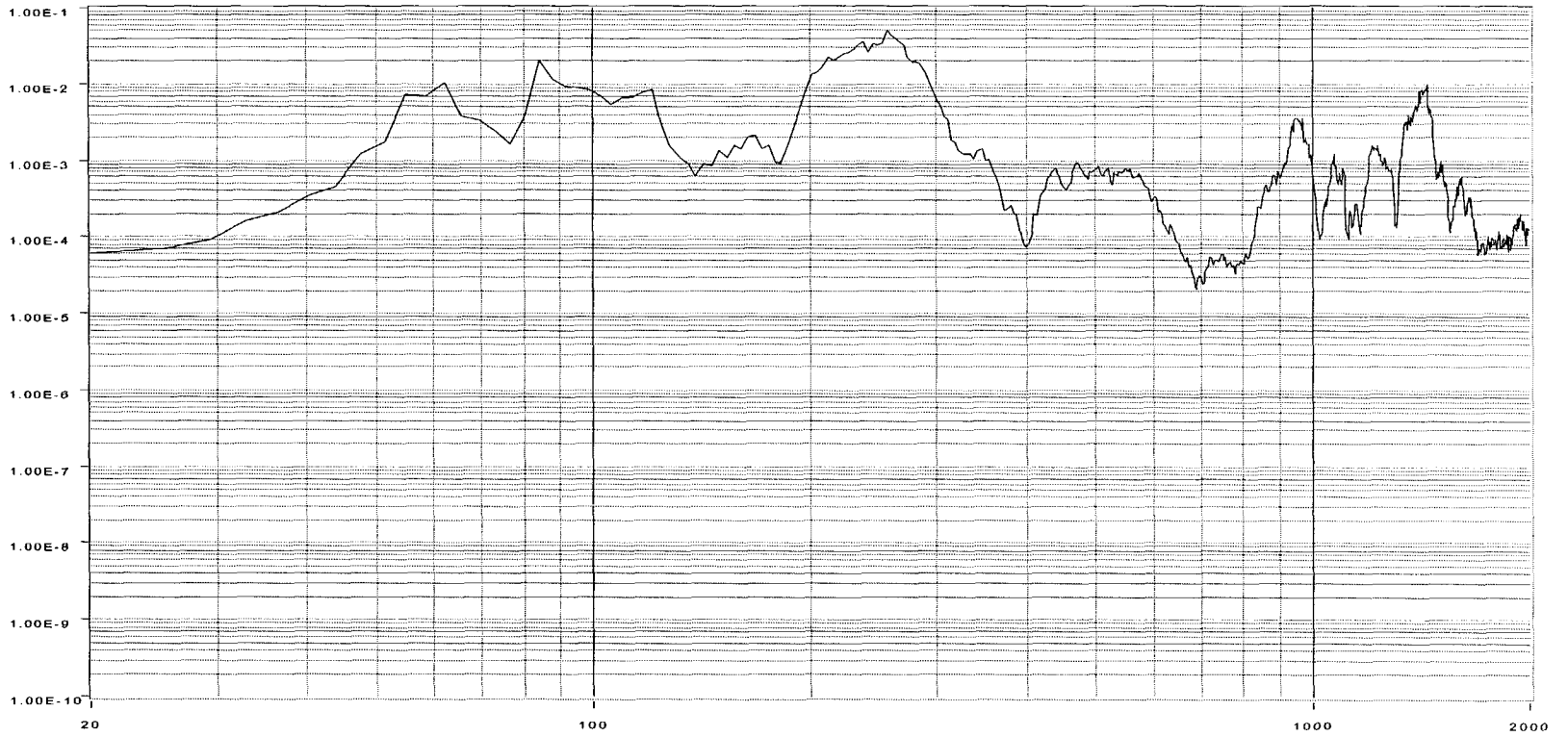
Channel #: 38 Node Number: 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 94.00

RMS= 2.175E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

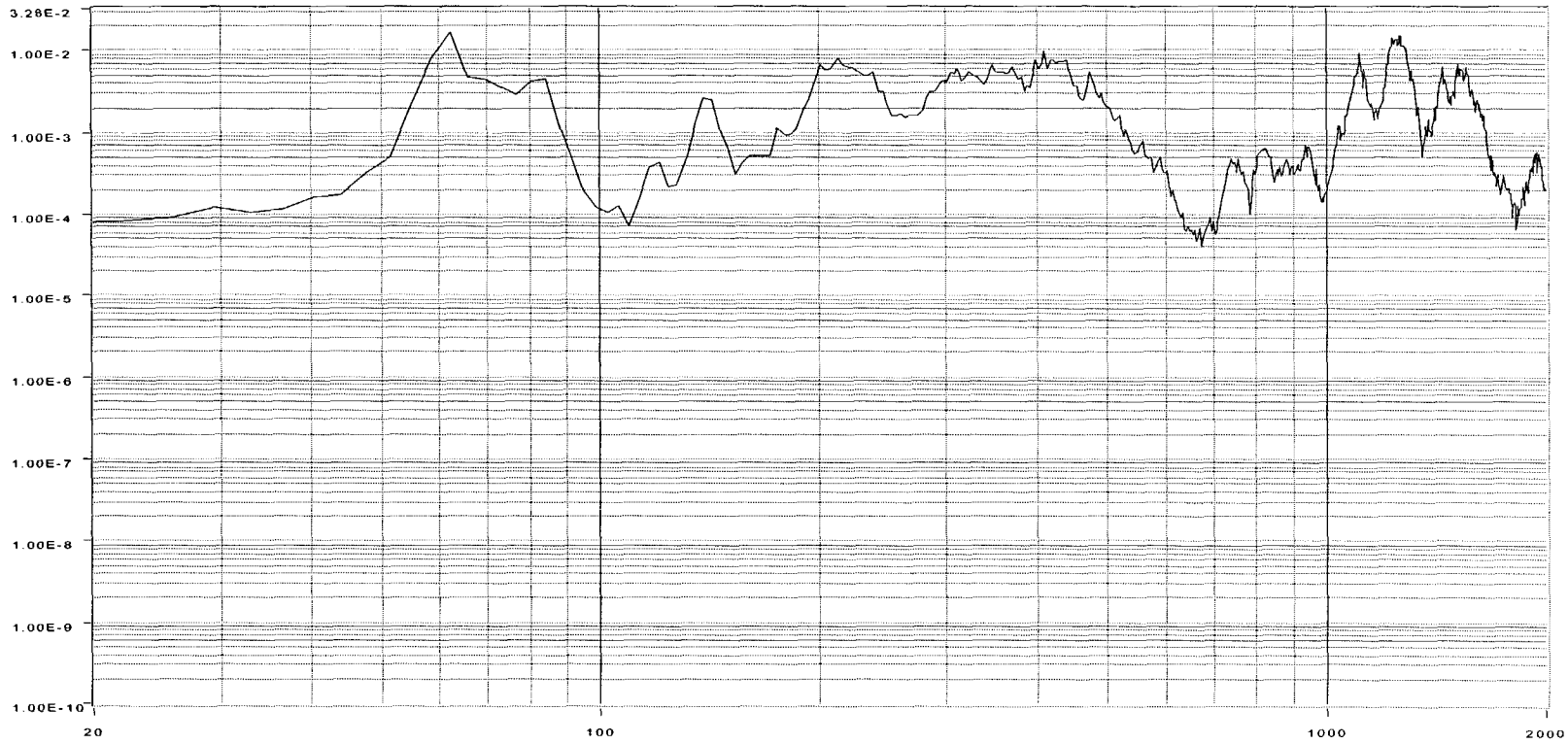
Channel #: 39 Node Number: 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 94.00

RMS= 2.136E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

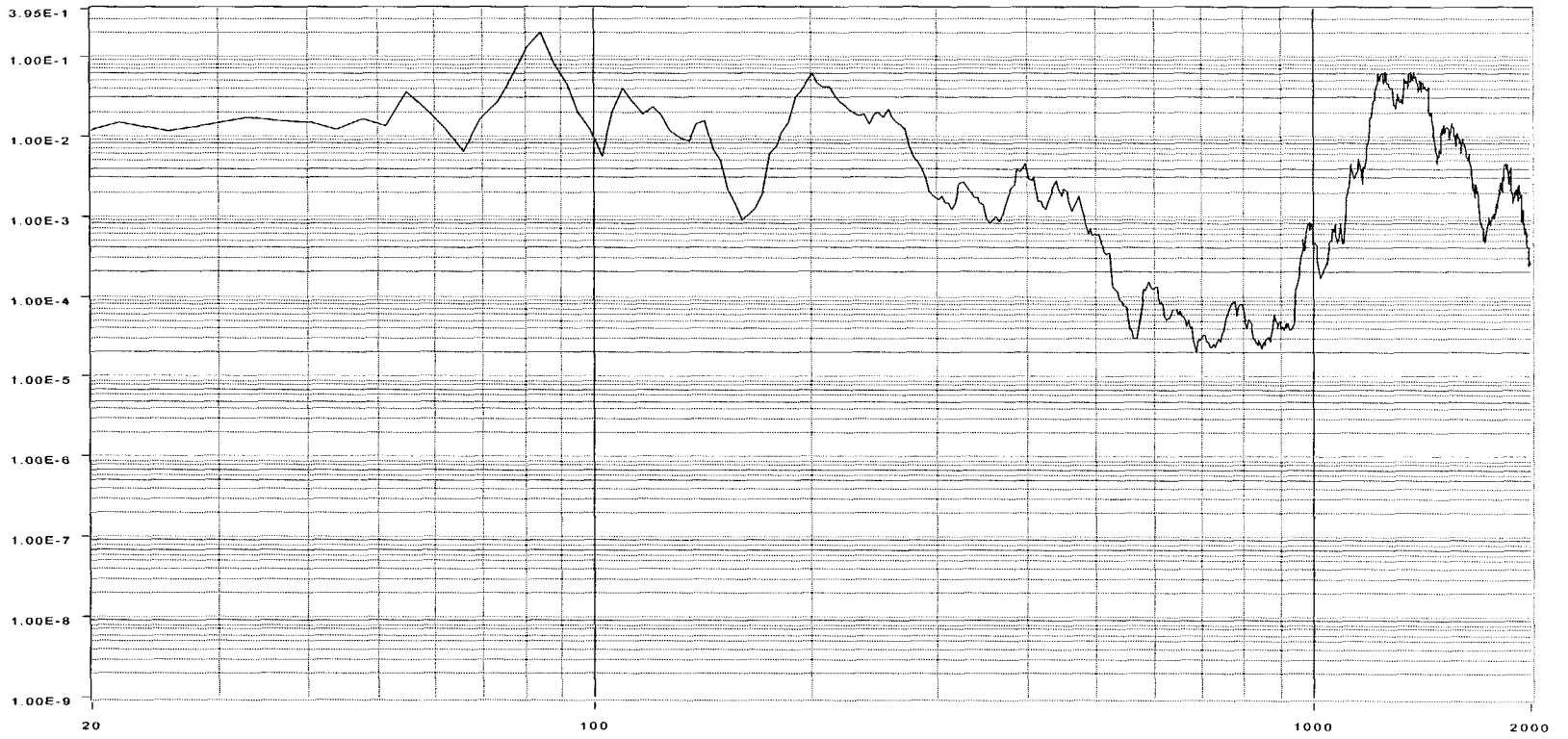
Channel #: 40 Node Number: 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 94.00

RMS= 4.488E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

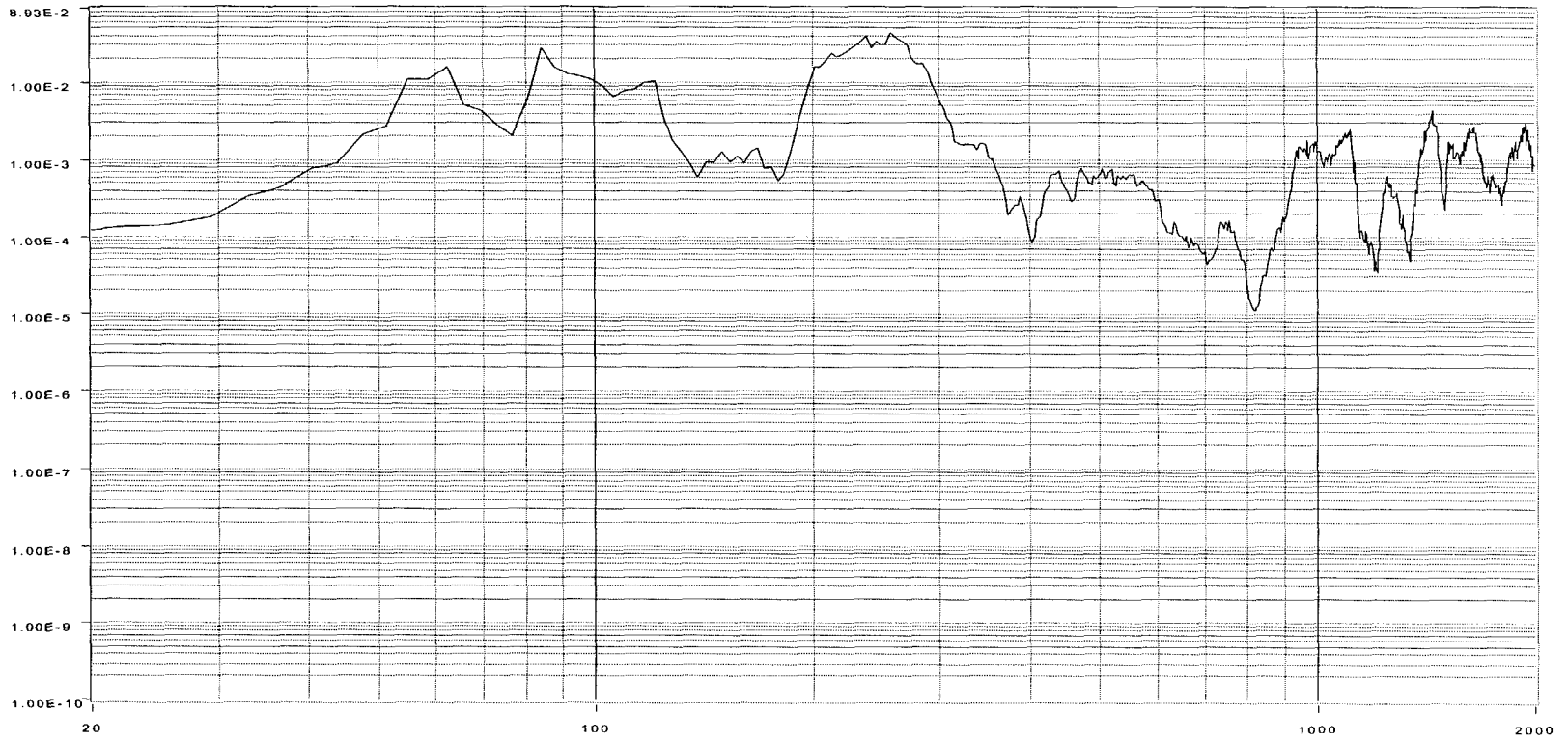
Channel #: 41 **Node Number: 0041**

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 94.00

RMS= 2.190E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

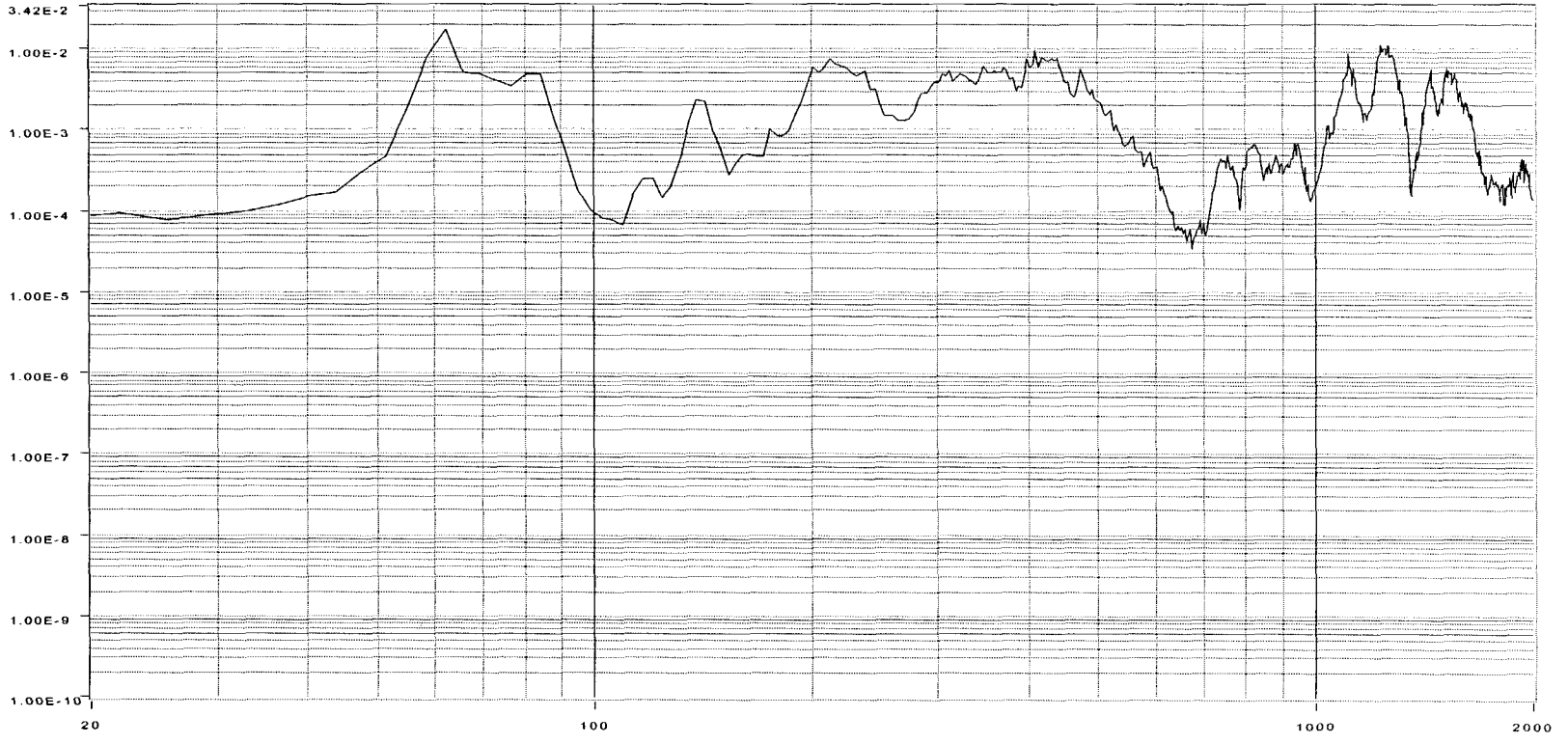
Channel #: 42 Node Number: 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 94.00

RMS= 2.004E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

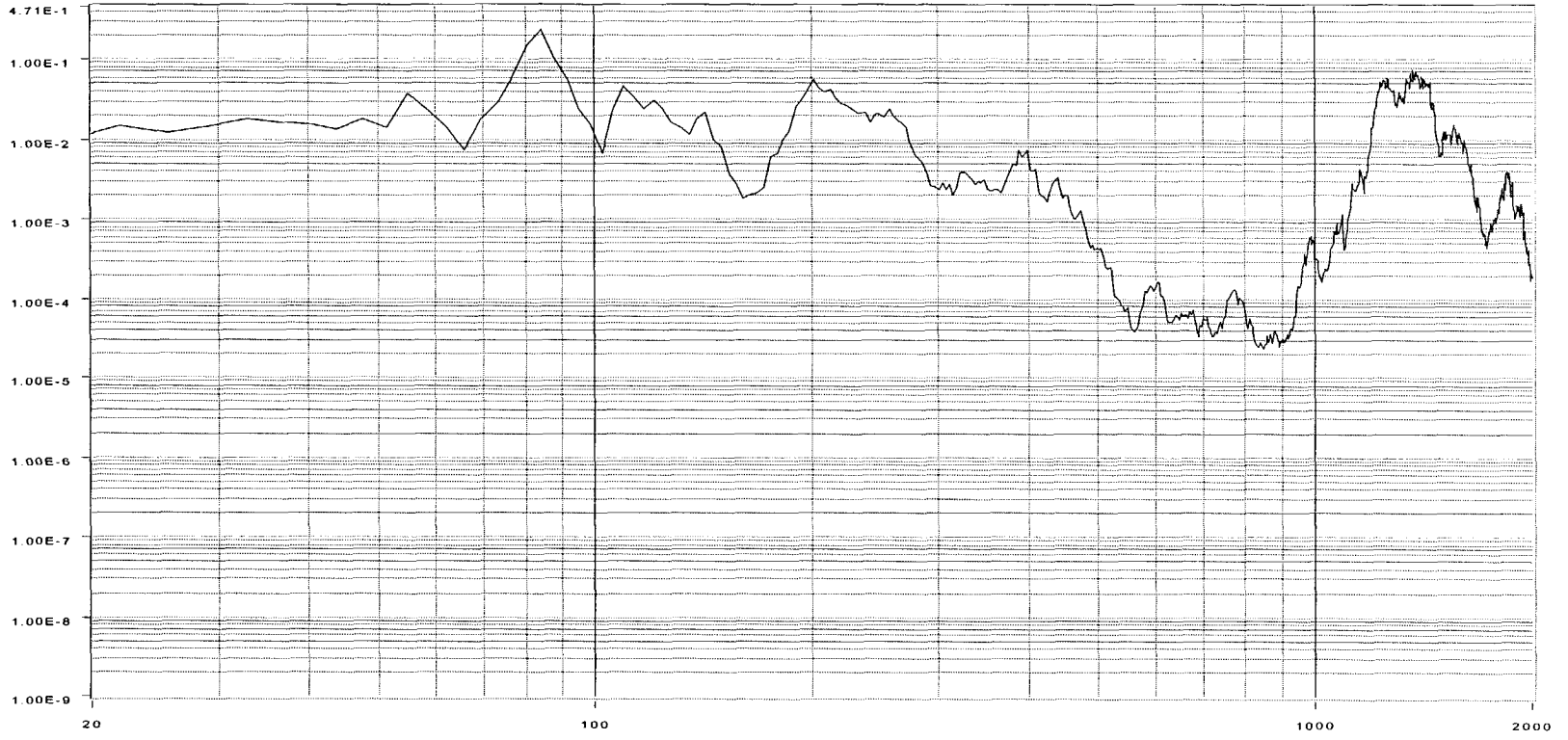
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 94.00

RMS= 4.680E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

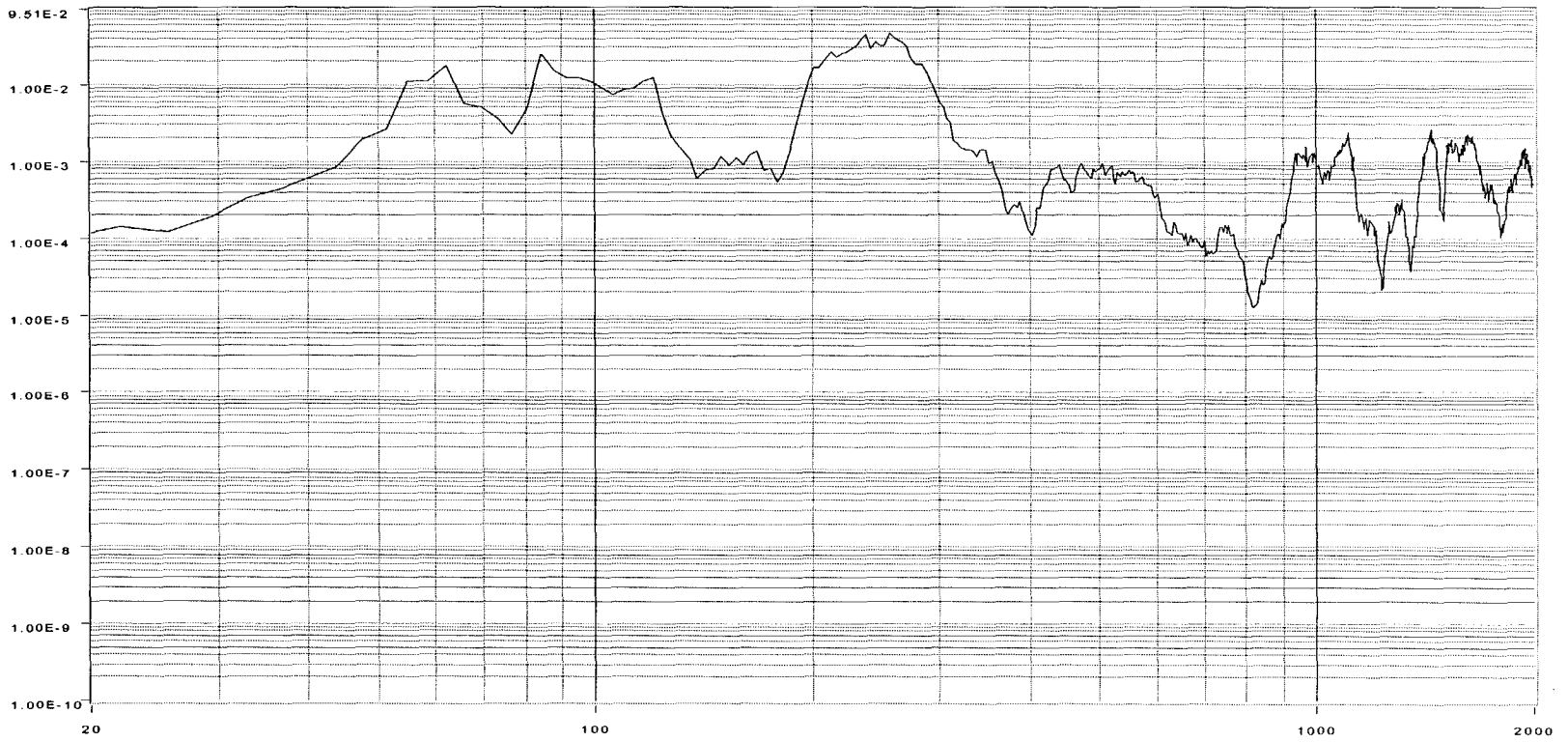
Channel #: 44 Node Number: 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 94.00

RMS= 2.163E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

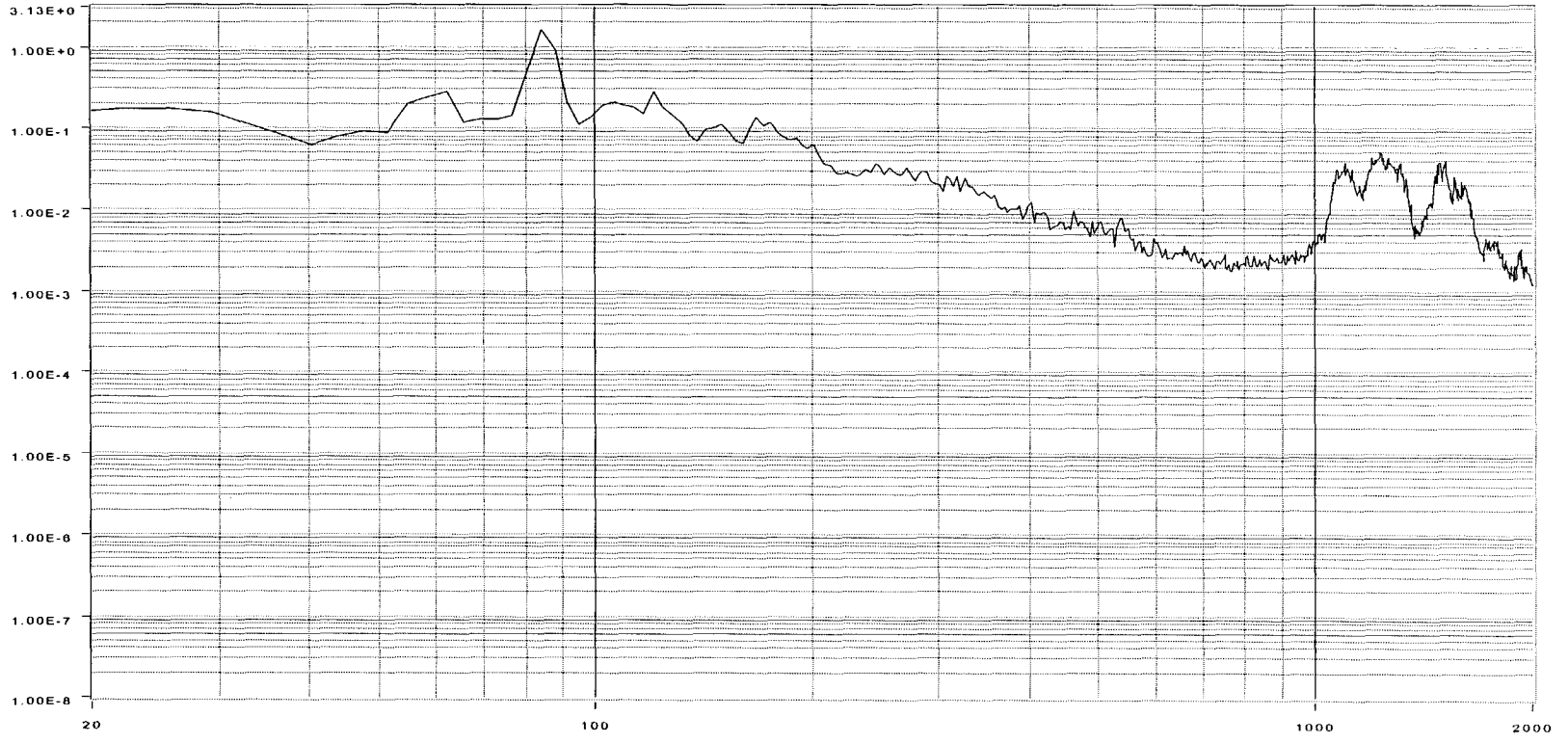
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 94.00

RMS= 7.376E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

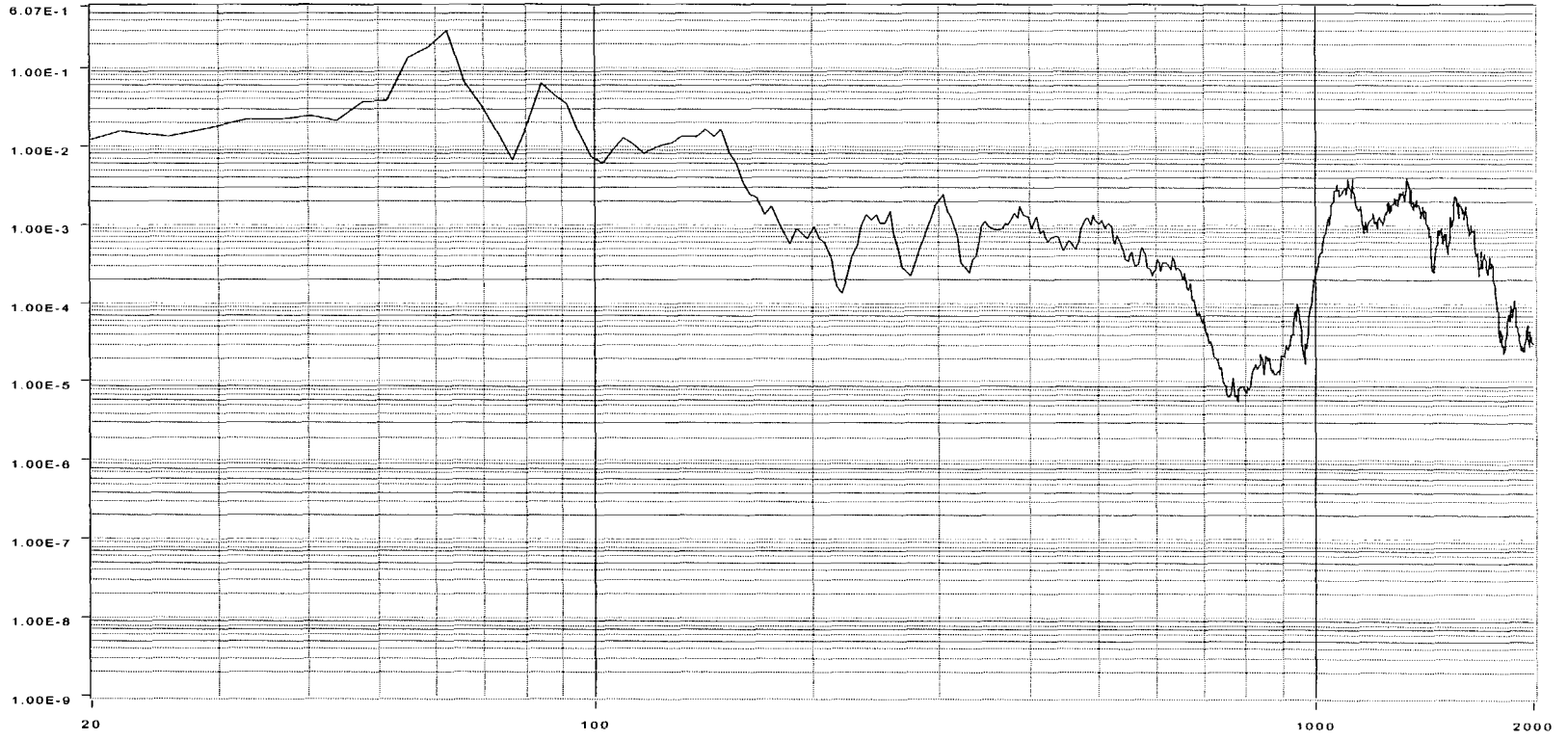
Channel #: 46 Node Number: 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 94.00

RMS= 2.505E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

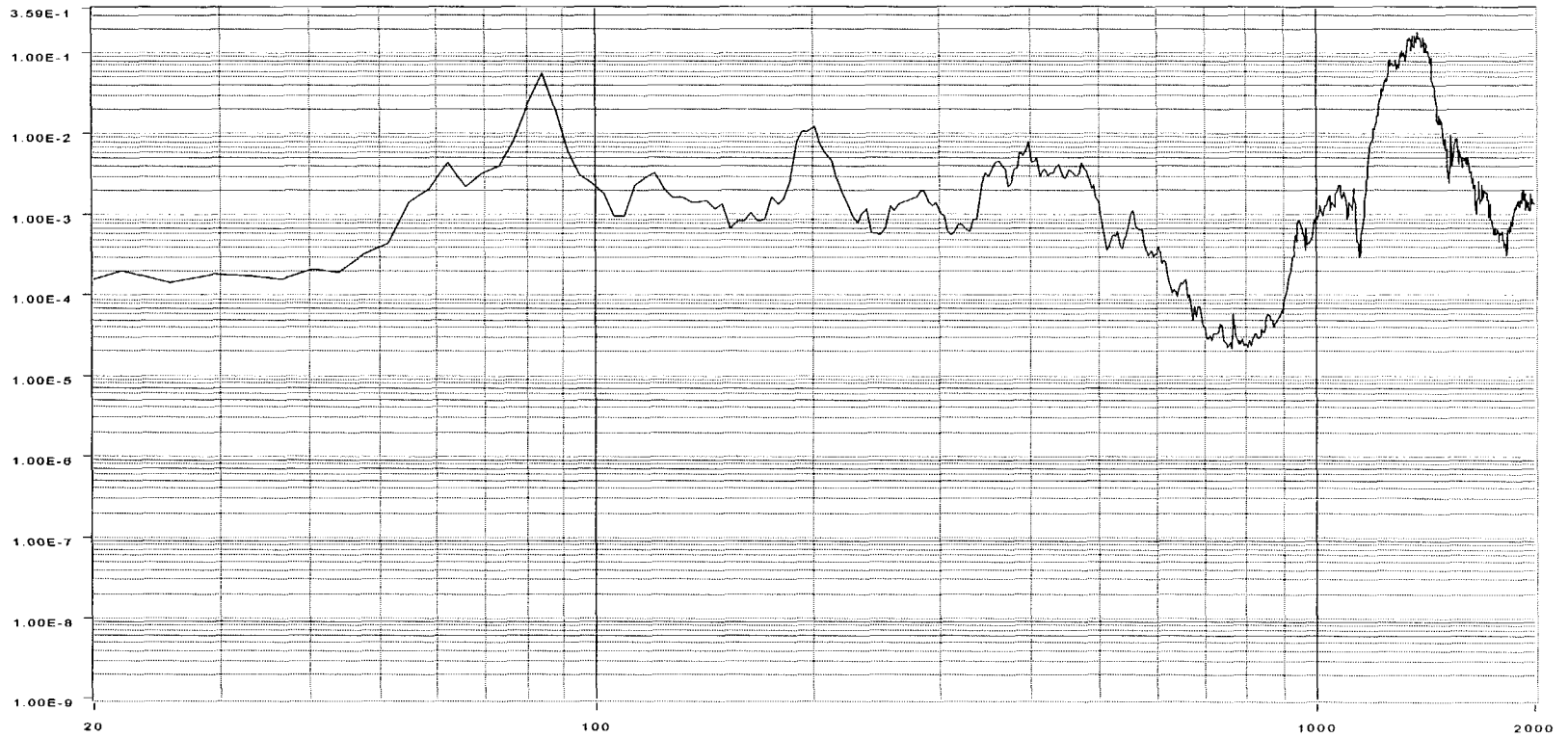
Channel #: 47 Node Number: 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 94.00

RMS= 5.178E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

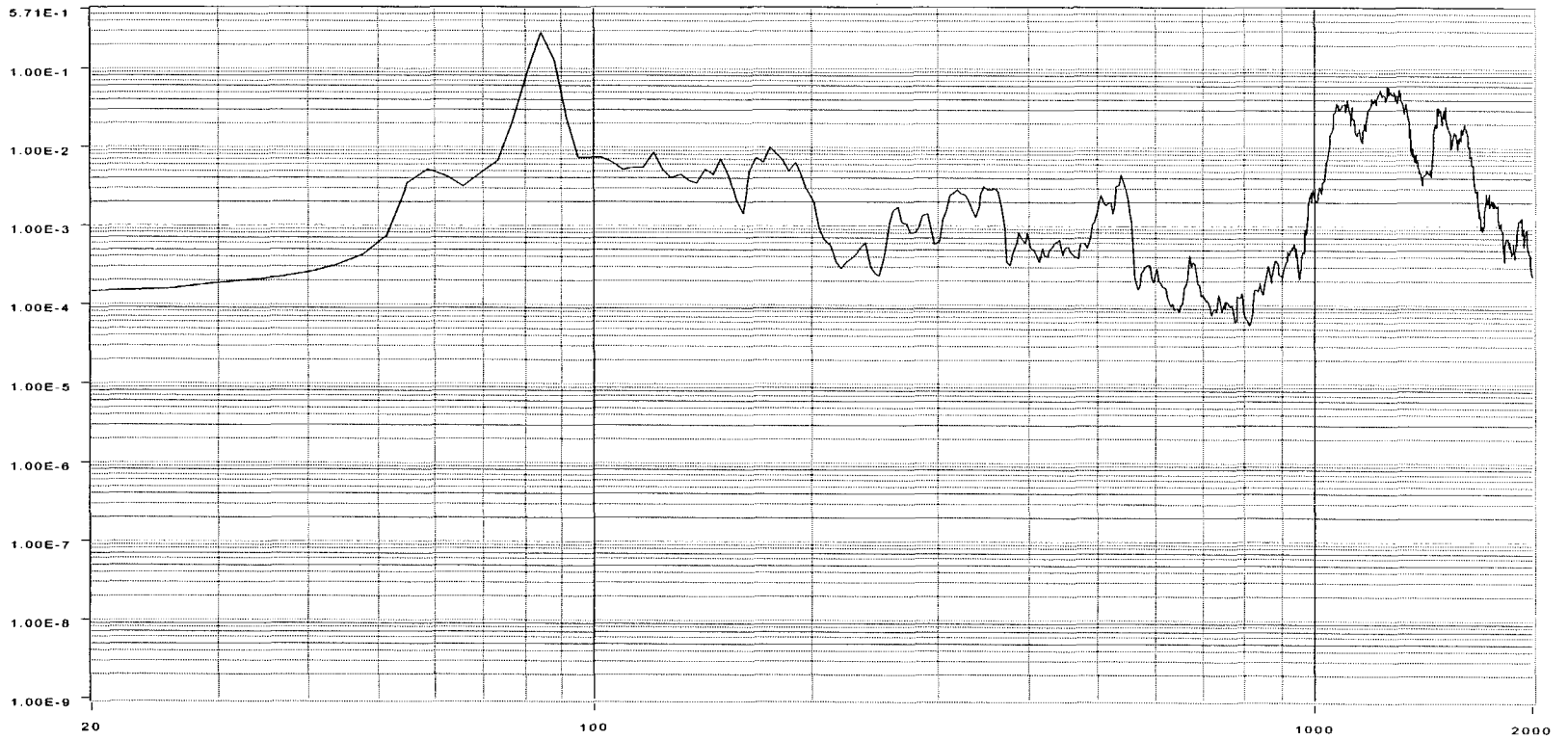
Channel #: 48 Node Number: 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 94.00

RMS= 4.263E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

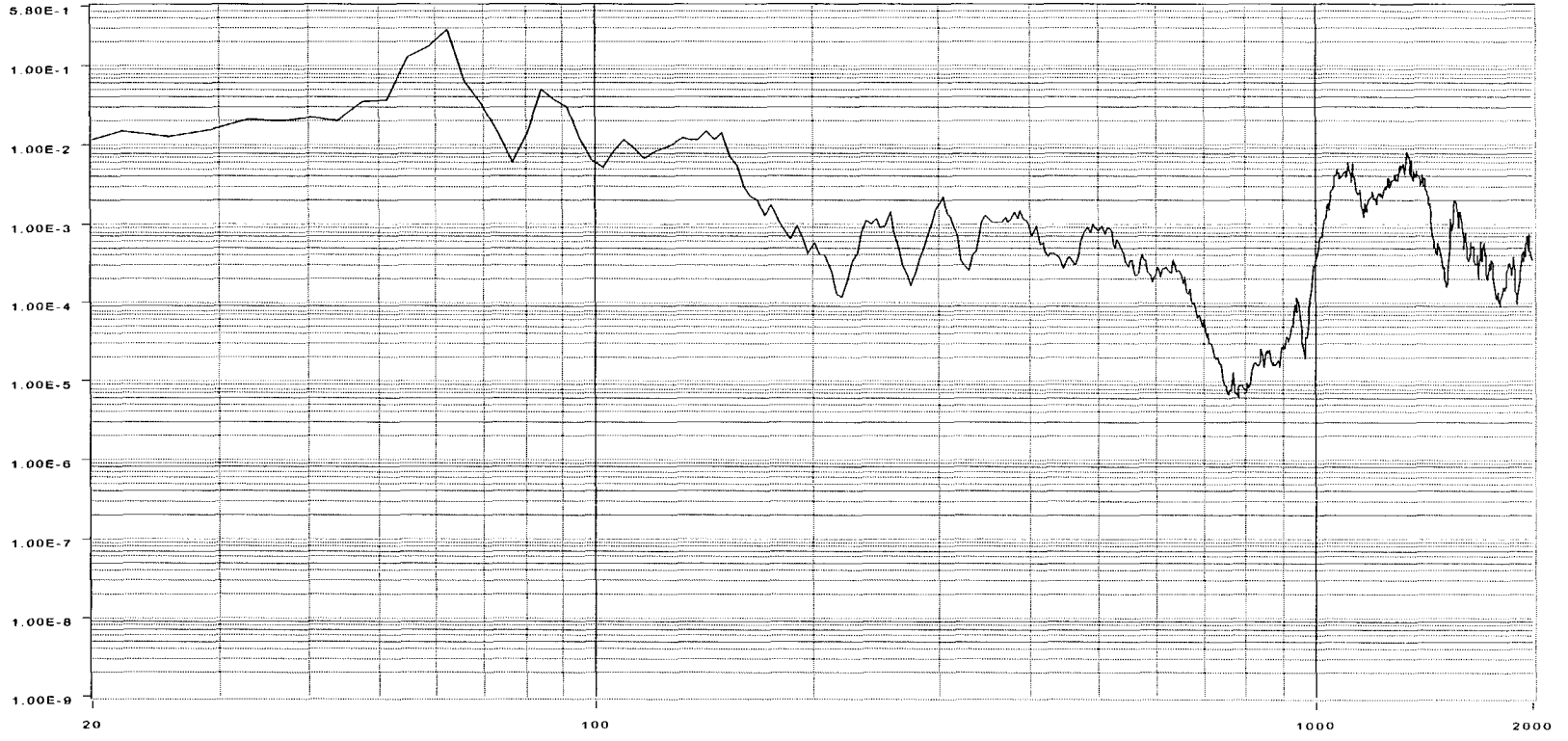
Channel #: 49 Node Number: 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 94.00

RMS= 2.559E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

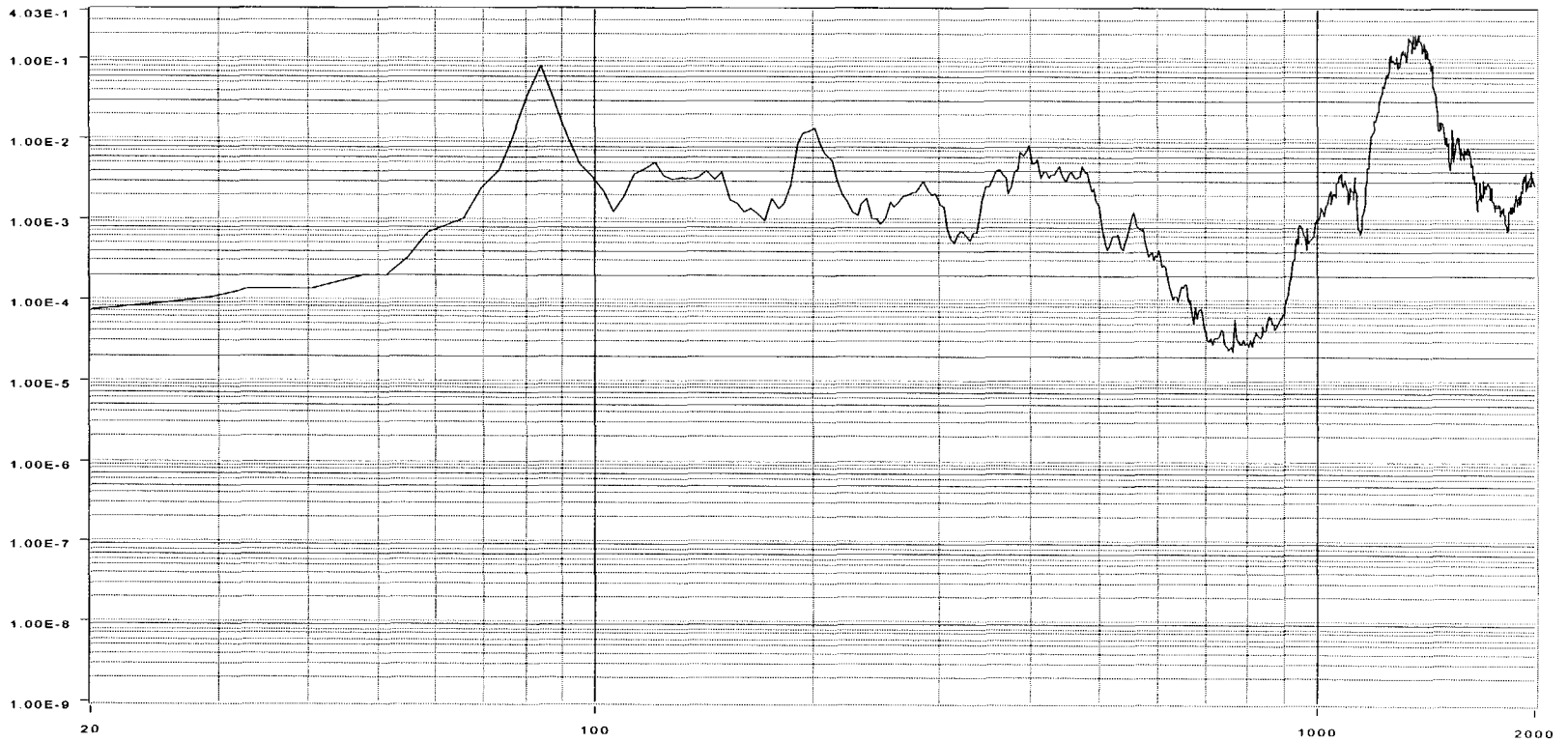
Channel #: 50 **Node Number:** 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 94.00

RMS= 5.601E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

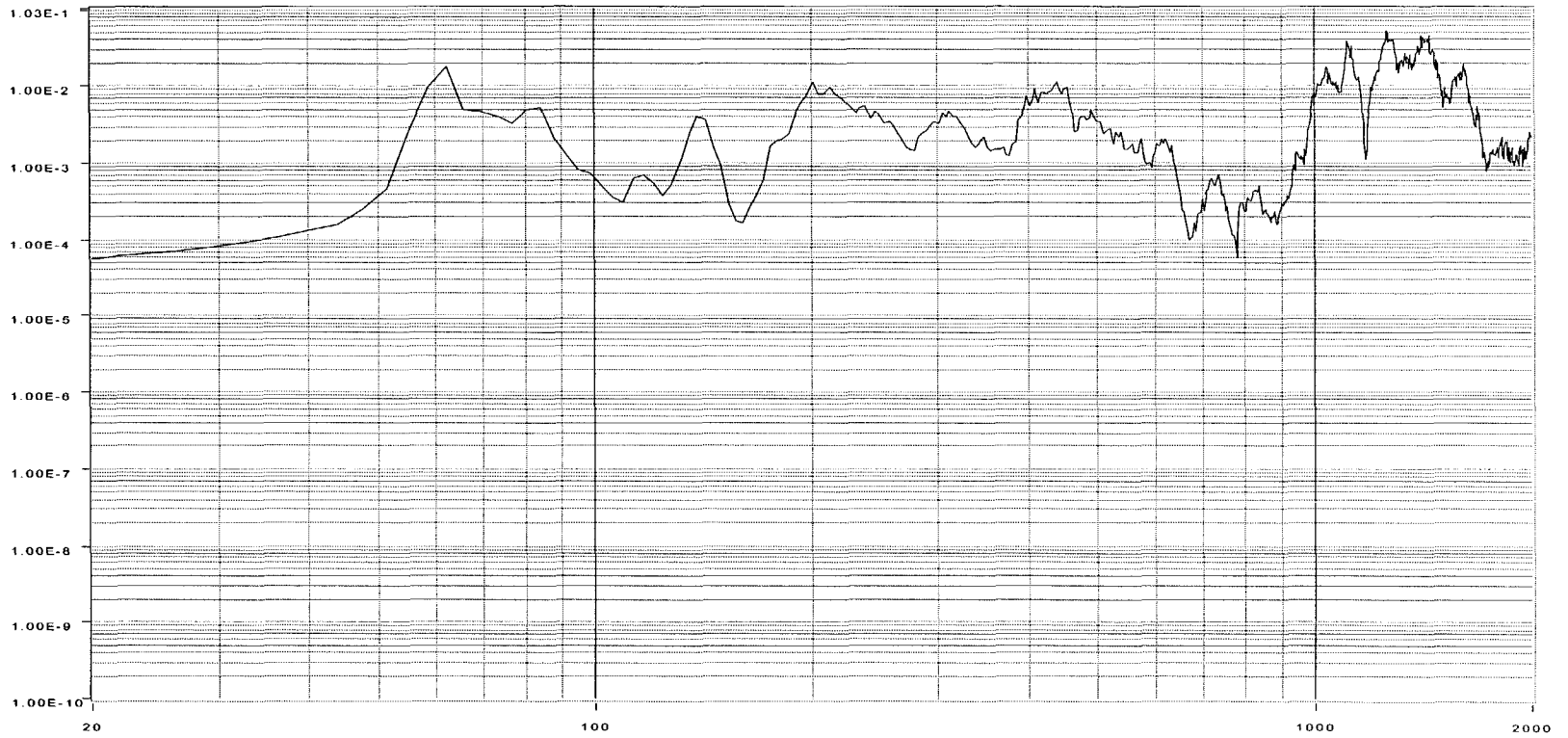
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 94.00

RMS= 3.846E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

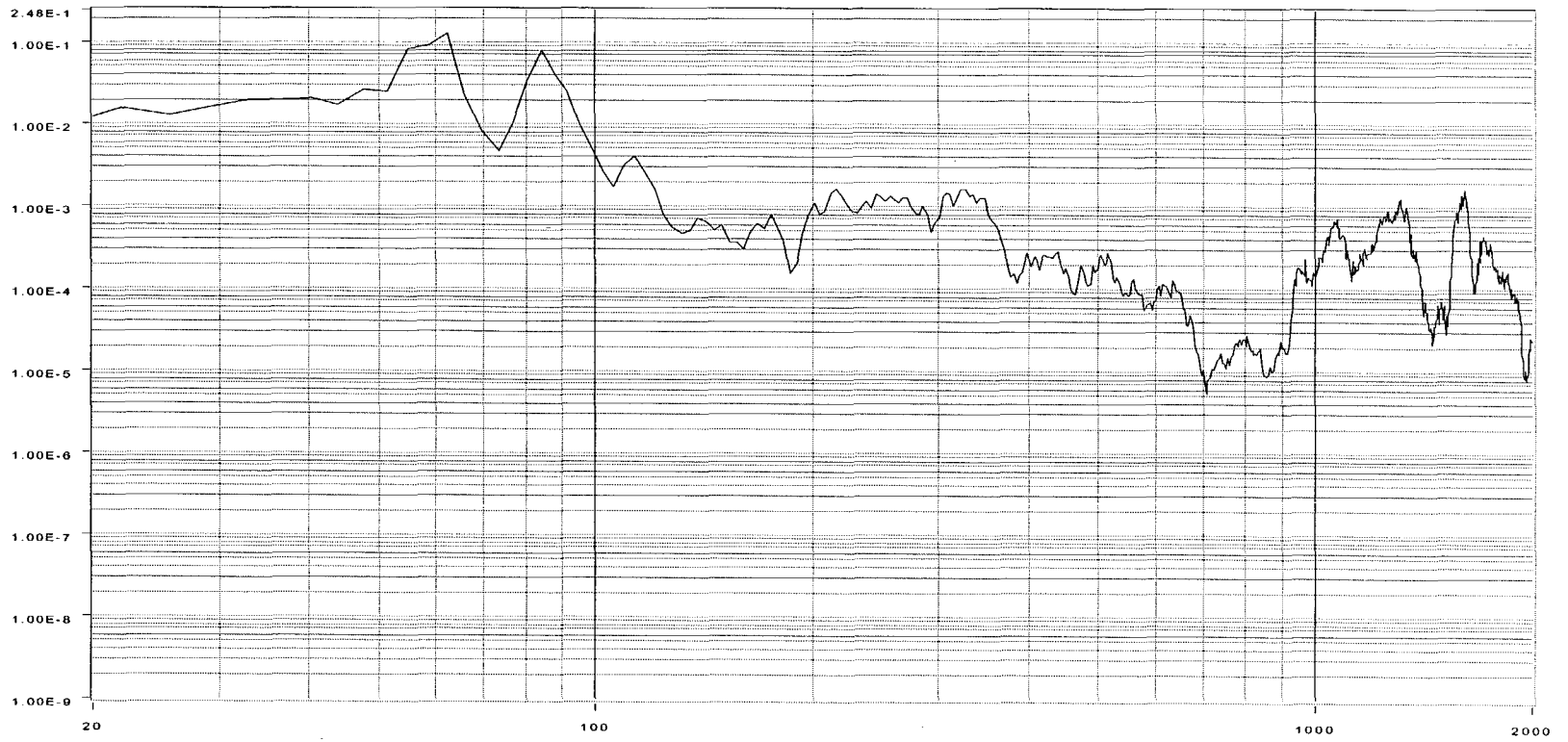
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 94.00

RMS= 1.816E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

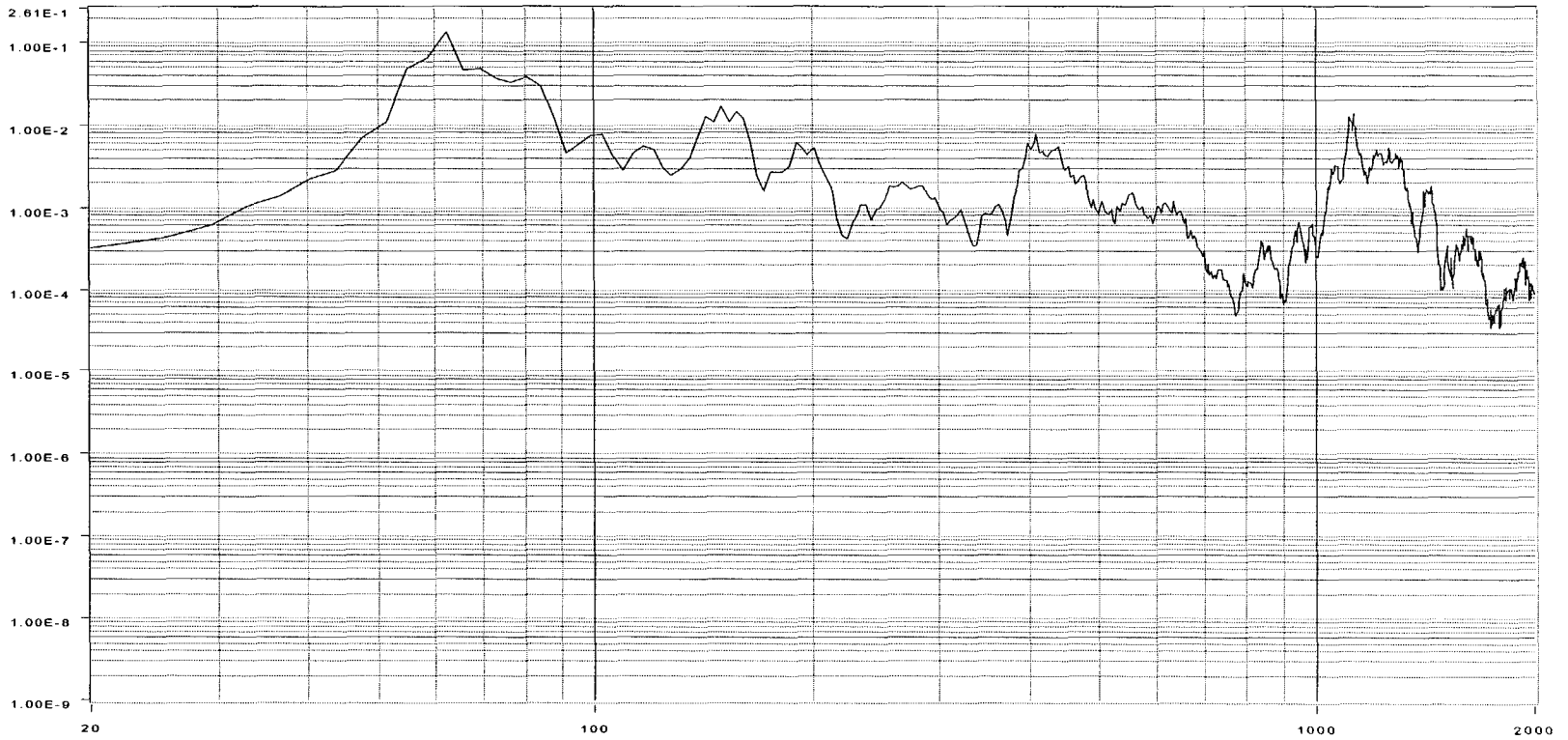
Channel #: 53 **Node Number:** 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 94.00

RMS= 2.219E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

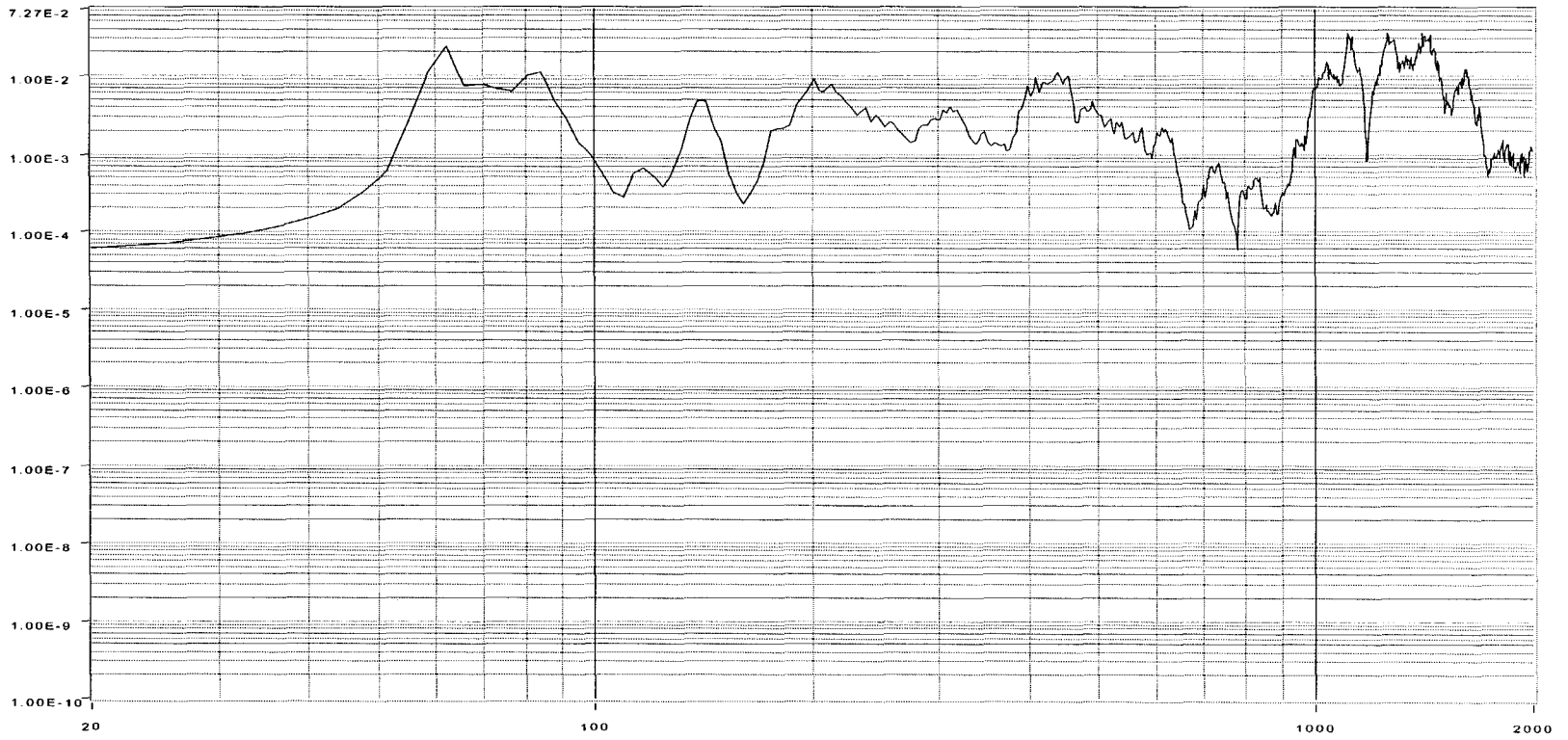
Channel #: 54 Node Number: 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 94.00

RMS= 3.428E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

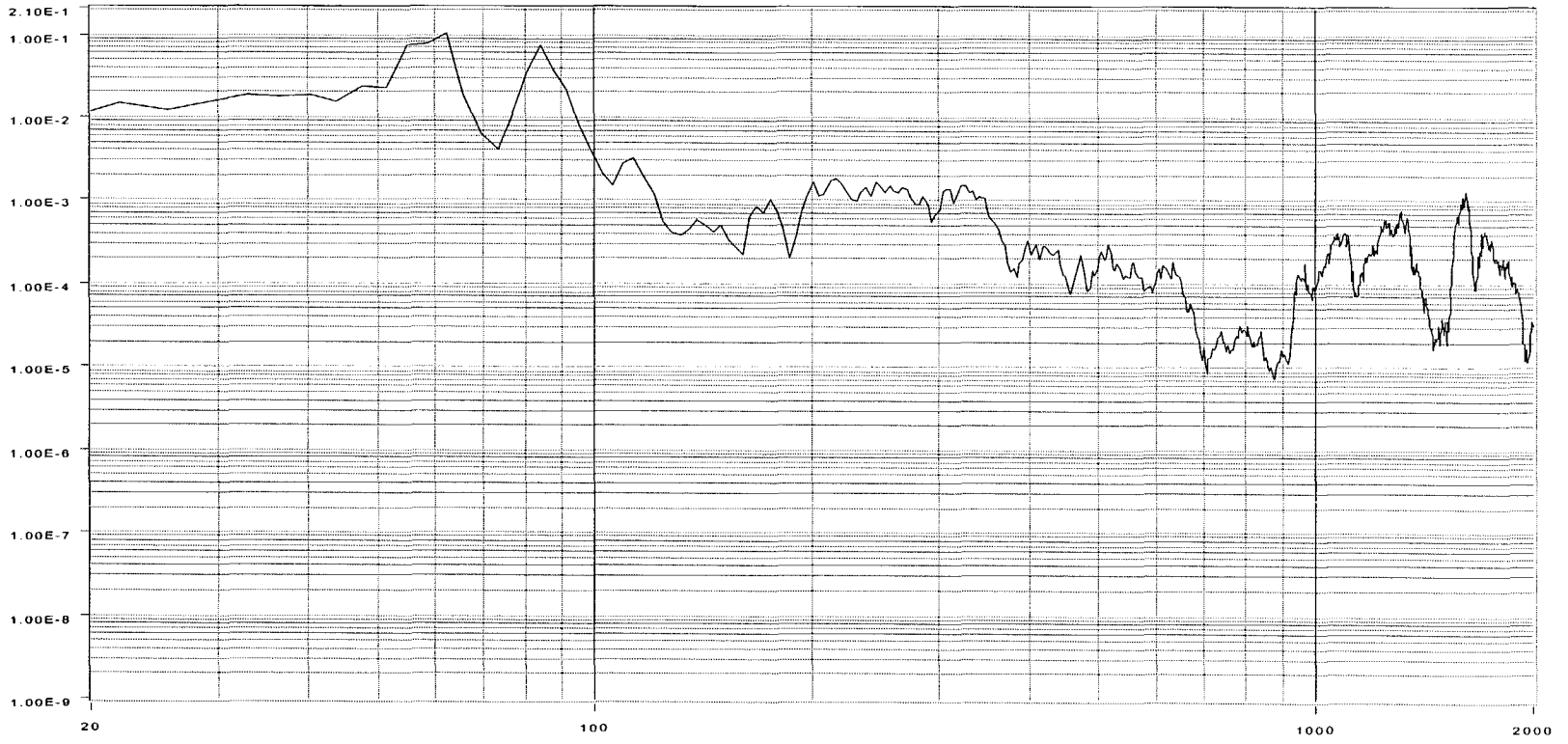
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 94.00

RMS= 1.711E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

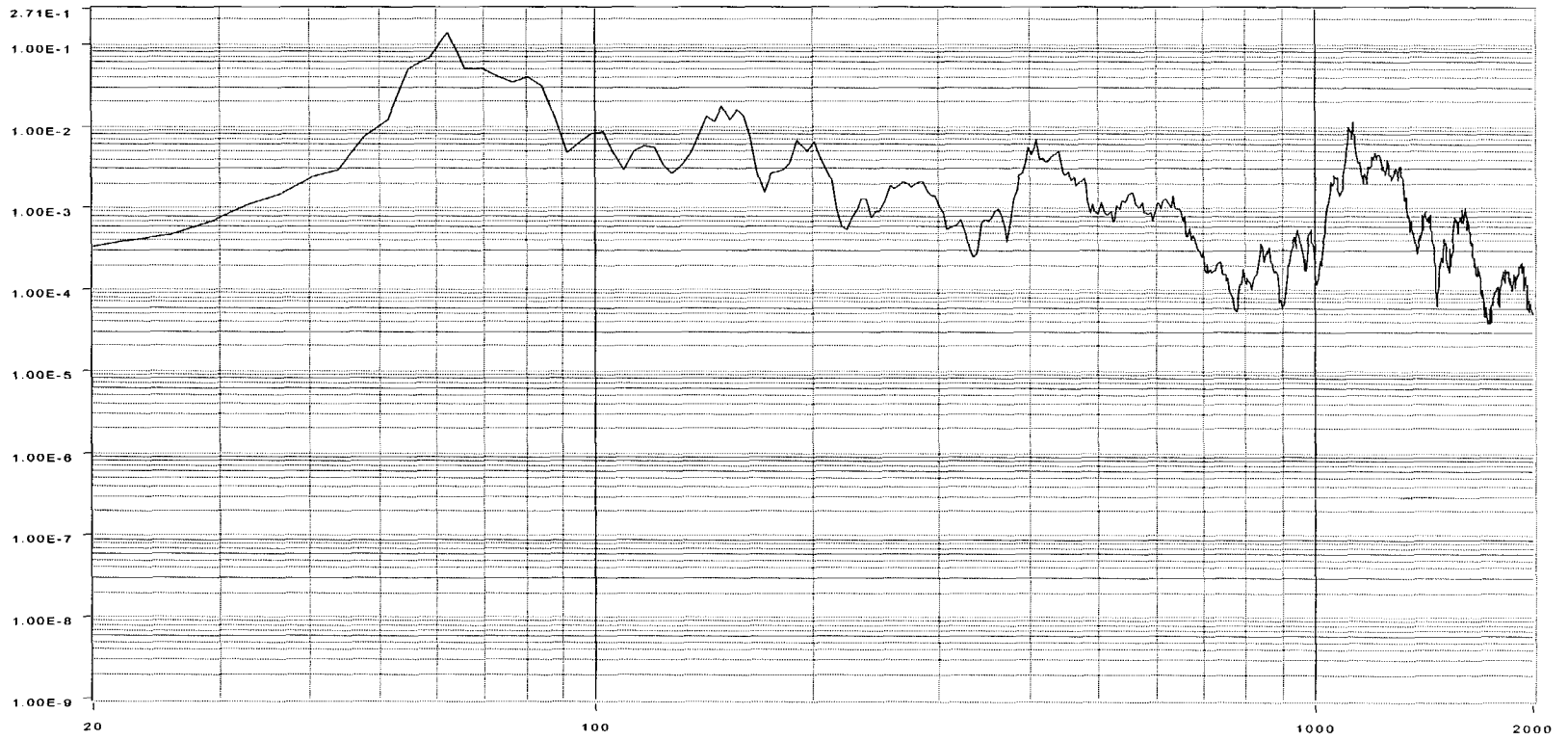
Channel #: 56 Node Number: 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 94.00

RMS= 2.181E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 21:3:43

Test title: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062414

Test description: HIRDLS VIBRATION TEST: Y-AXIS 0db random

Part number/id: Y4011

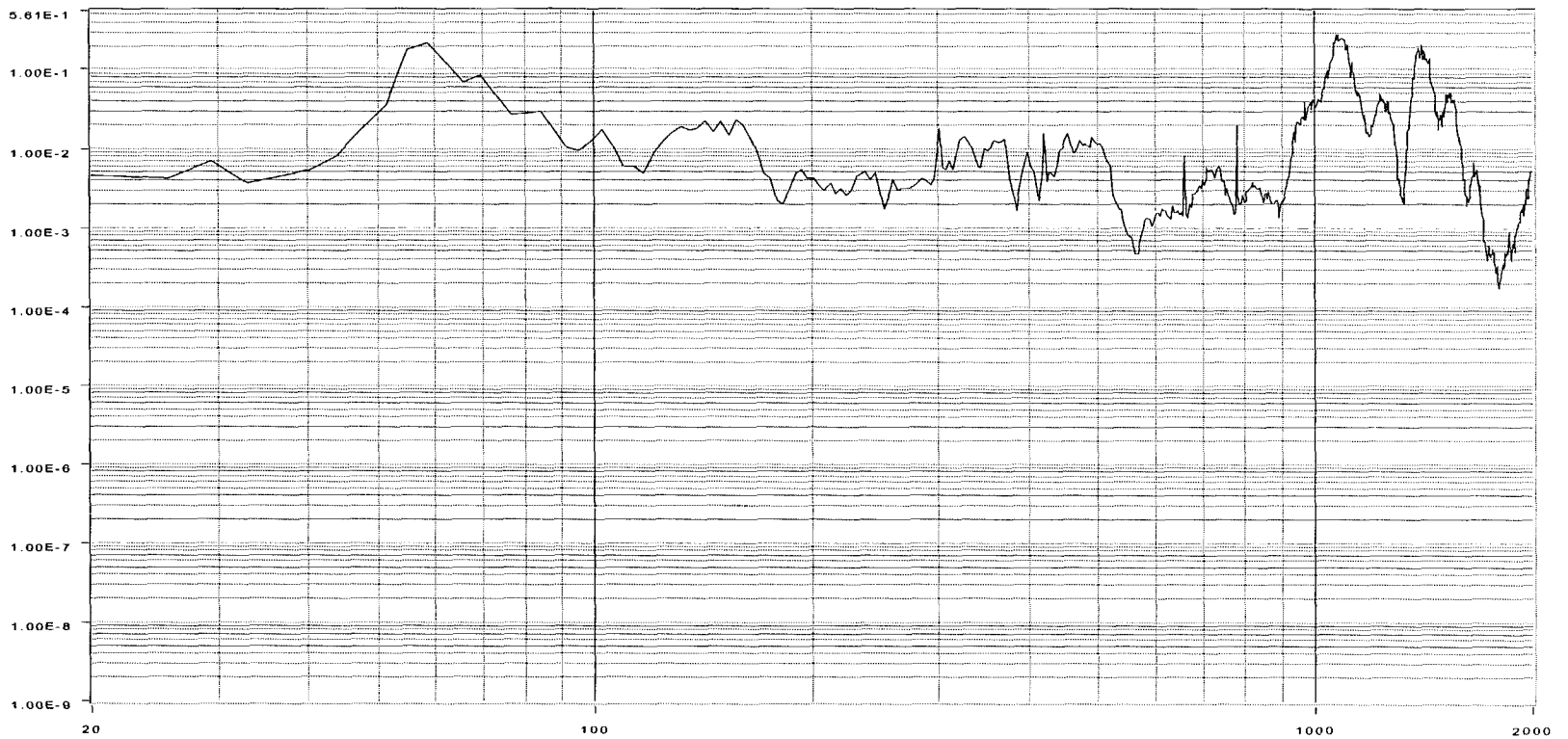
Channel #: 57 **Node Number:** 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 94.00

RMS= 7.176E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

Analysis Date & time: 6/24/02 9:28 PM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

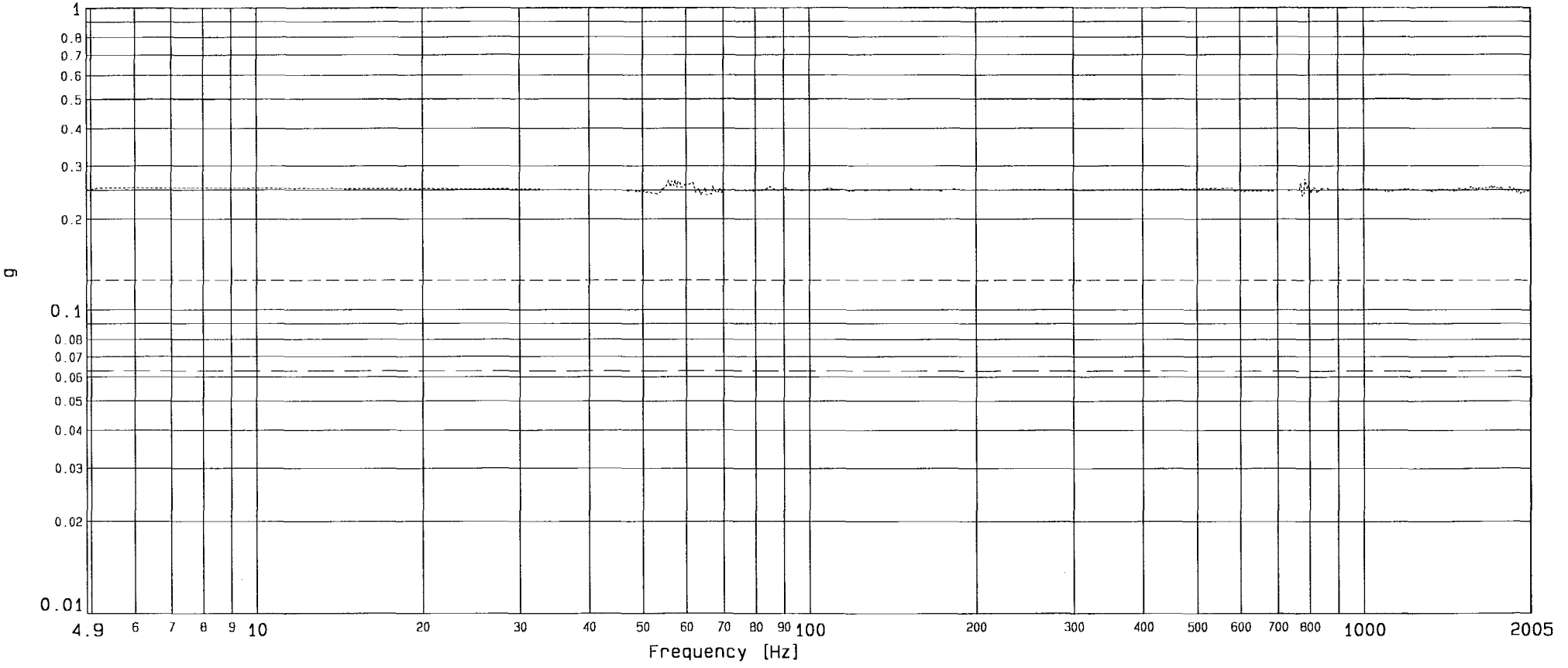
Project : hirdls
Test : Y_Signature
Run : 3 062415

Date : 24-06-02
Time : 22: 05: 45
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G MID SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062415

LOCKHEED MARTIN MISSILES & SPACE

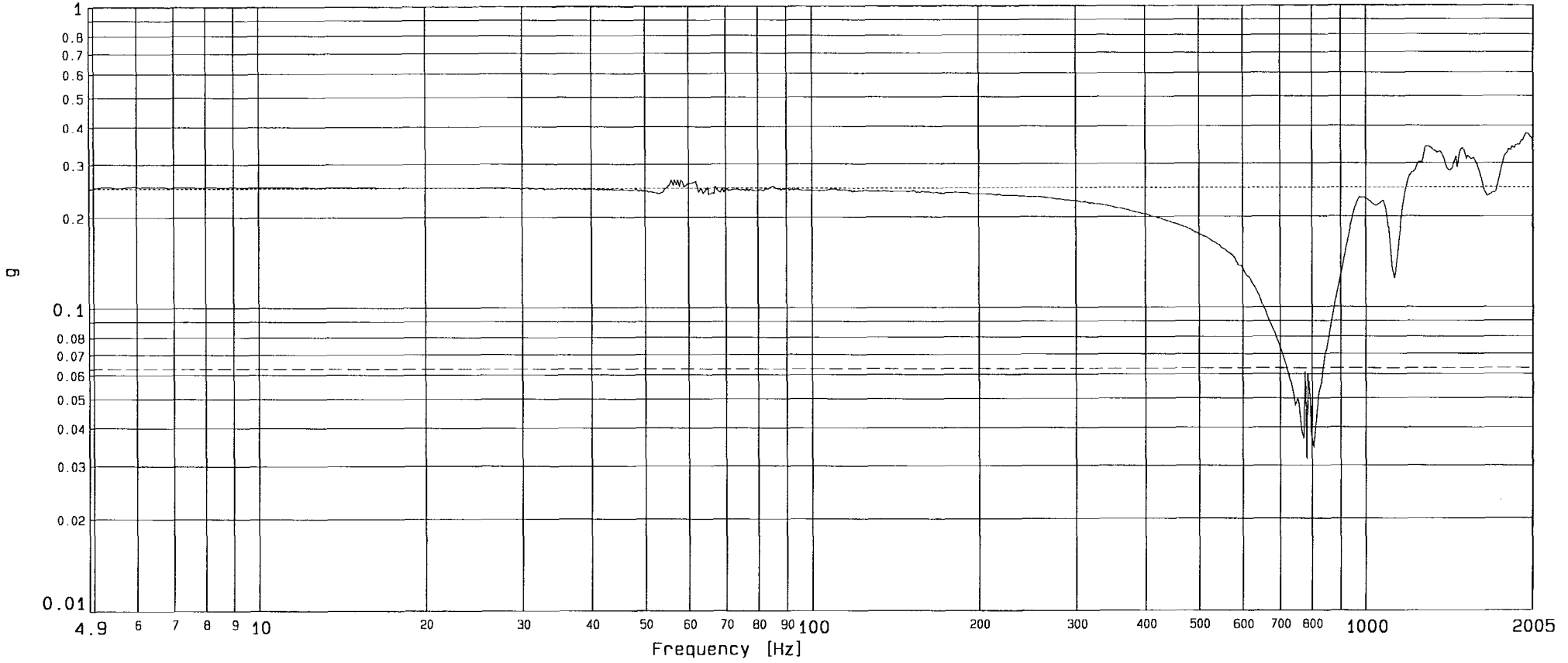
Project : hirdls
Test : Y_Signature
Run : 3 062415

Date : 24-06-02
Time : 22: 05: 45
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 376.77e-03 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G MID SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062415

LOCKHEED MARTIN MISSILES & SPACE

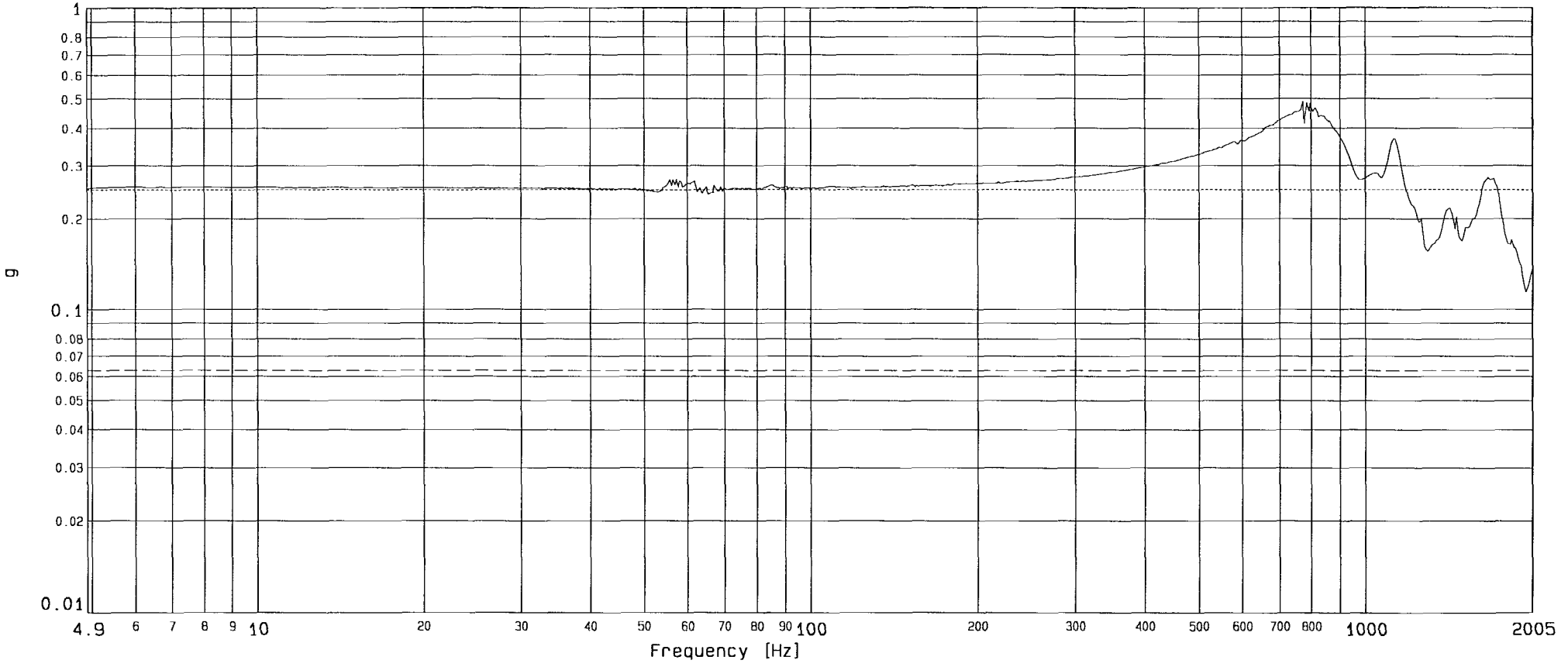
Project : hirdls
Test : Y_Signature
Run : 3 062415

Date : 24-06-02
Time : 22: 05: 45
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 489.52e-03 g

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIADLS Y 0.25G MID SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062415

LOCKHEED MARTIN MISSILES & SPACE

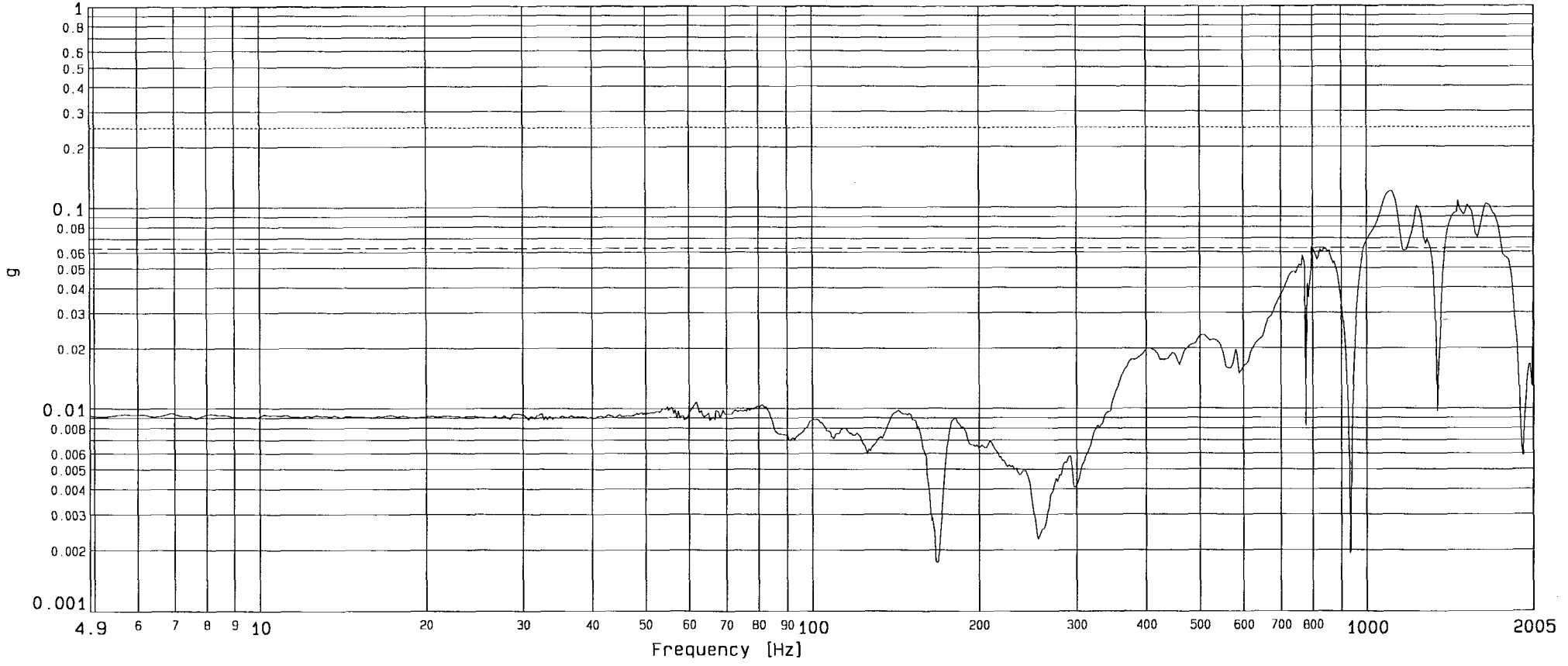
Project : hirdls
Test : Y_Signature
Run : 3 062415

Date : 24-06-02
Time : 22: 05: 45
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 120.13e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G MID SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062415

LMS

LOCKHEED MARTIN MISSILES & SPACE

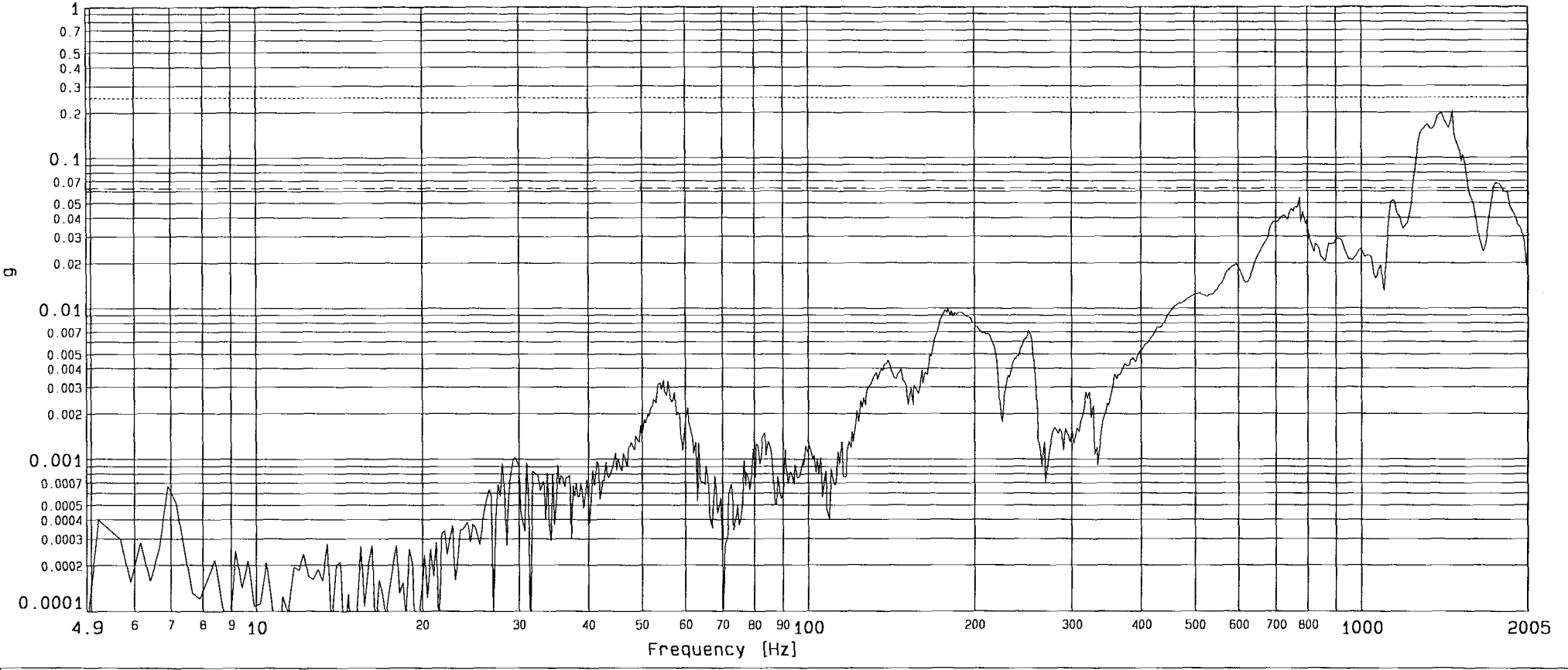
Project : hirdls
Test : Y_Signature
Run : 3 062415

Date : 24-06-02
Time : 22:05:45
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 204.19e-03 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G MID SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062415

LMS

LOCKHEED MARTIN MISSILES & SPACE

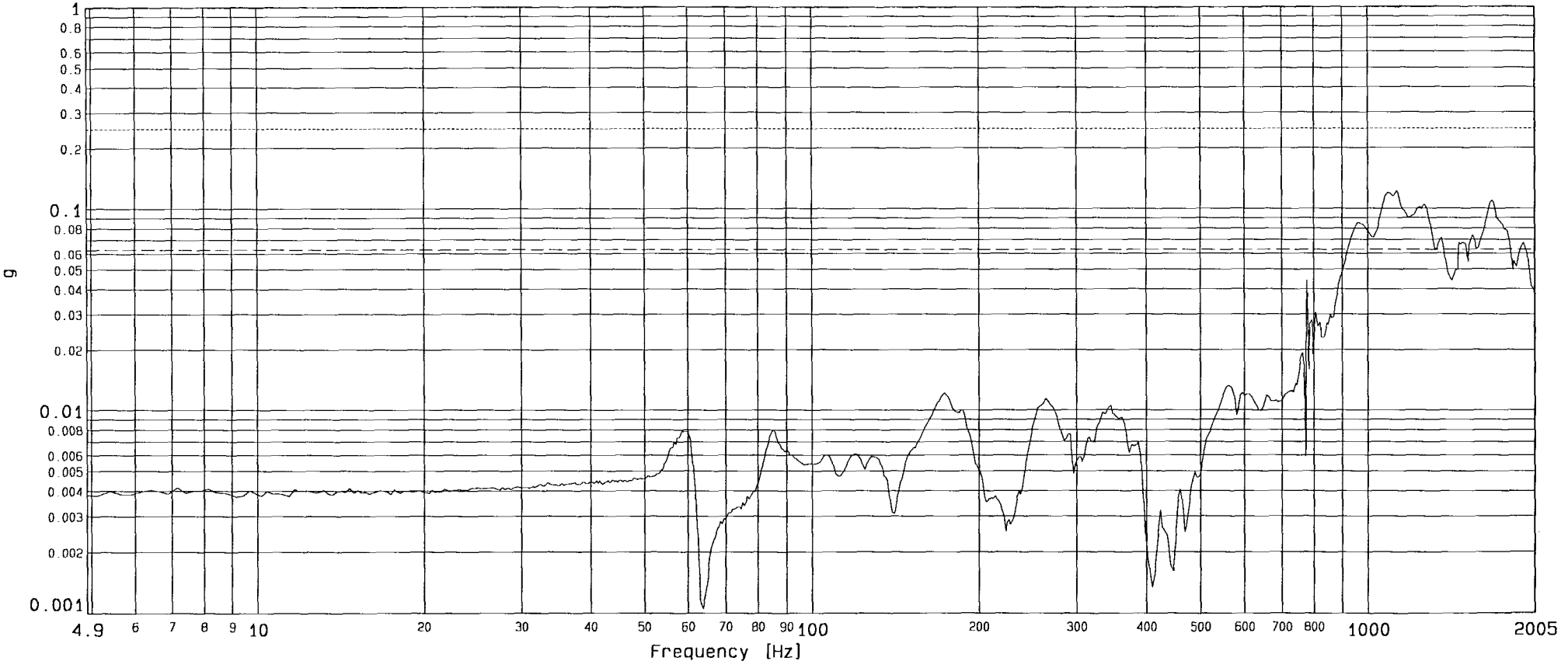
Project : hirdls
Test : Y_Signature
Run : 3 062415

Date : 24-06-02
Time : 22: 05: 45
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 122.41e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G MID SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062415

LOCKHEED MARTIN MISSILES & SPACE

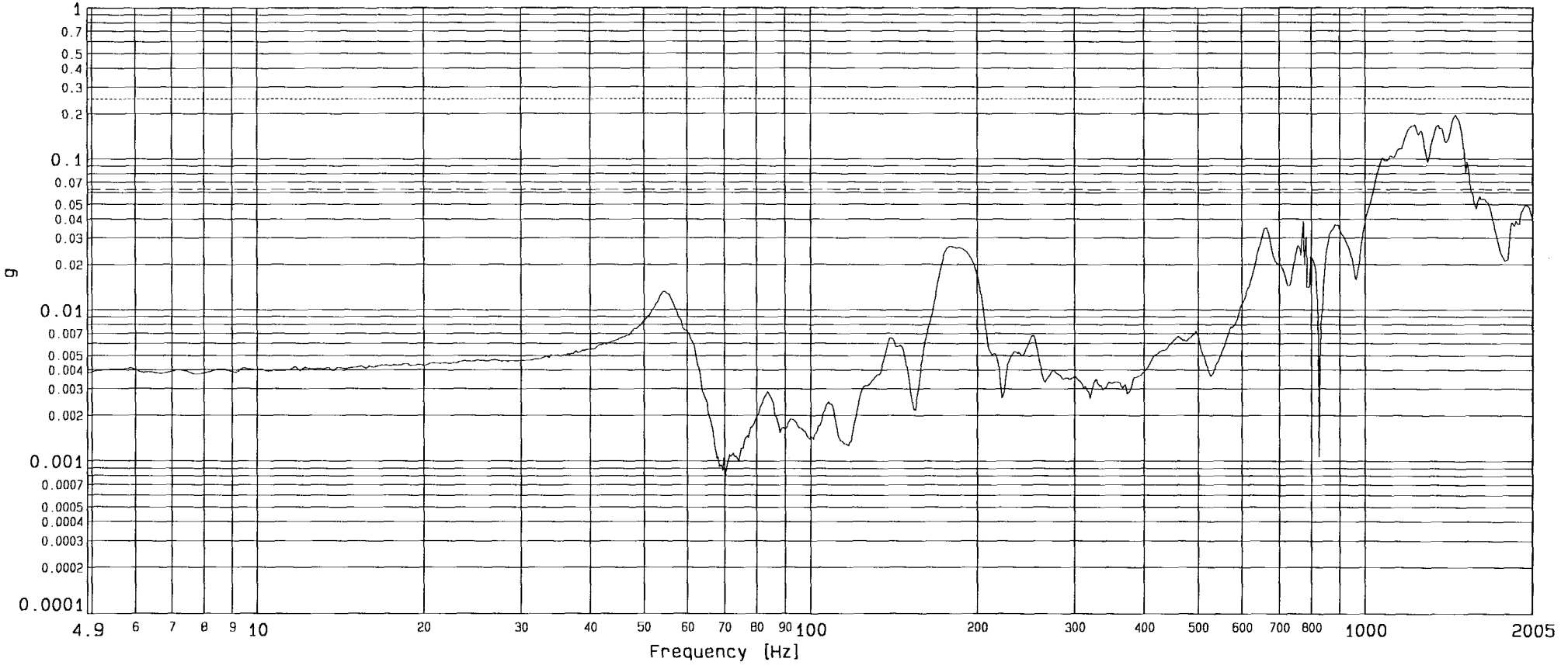
Project : hirdls
Test : Y_Signature
Run : 3 062415

Date : 24-06-02
Time : 22: 05: 45
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 195.83e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G MID SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062415

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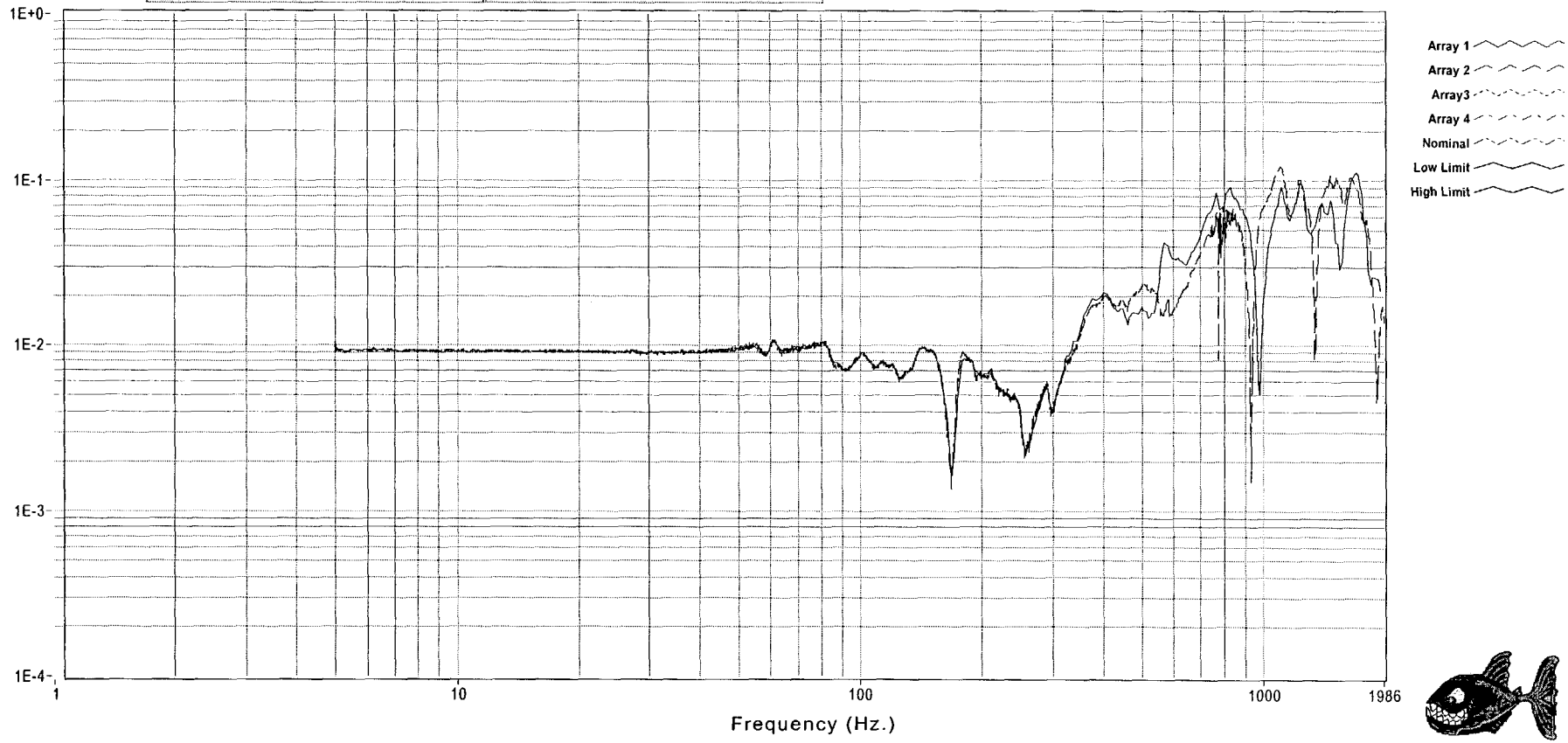
	Array 1 sine_Sine062410 North_Control_X Channel #1	Array 2 sine_Sine062415 North_Control_X Channel #1
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.117E-1 at 1698.0 Hz.	Maximum = 1.224E-1 at 1105.0 Hz.
Overall or RMS	N/A	N/A



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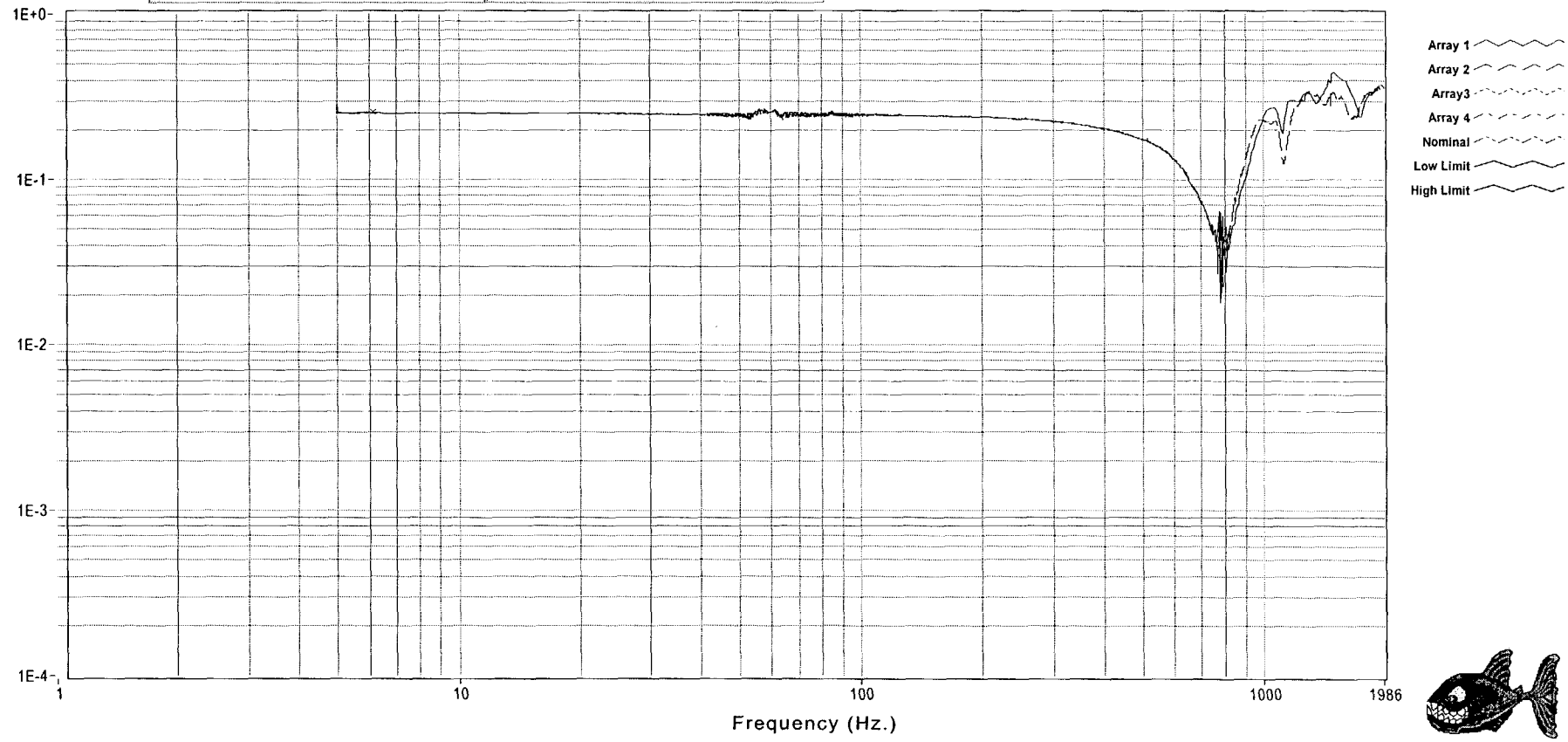
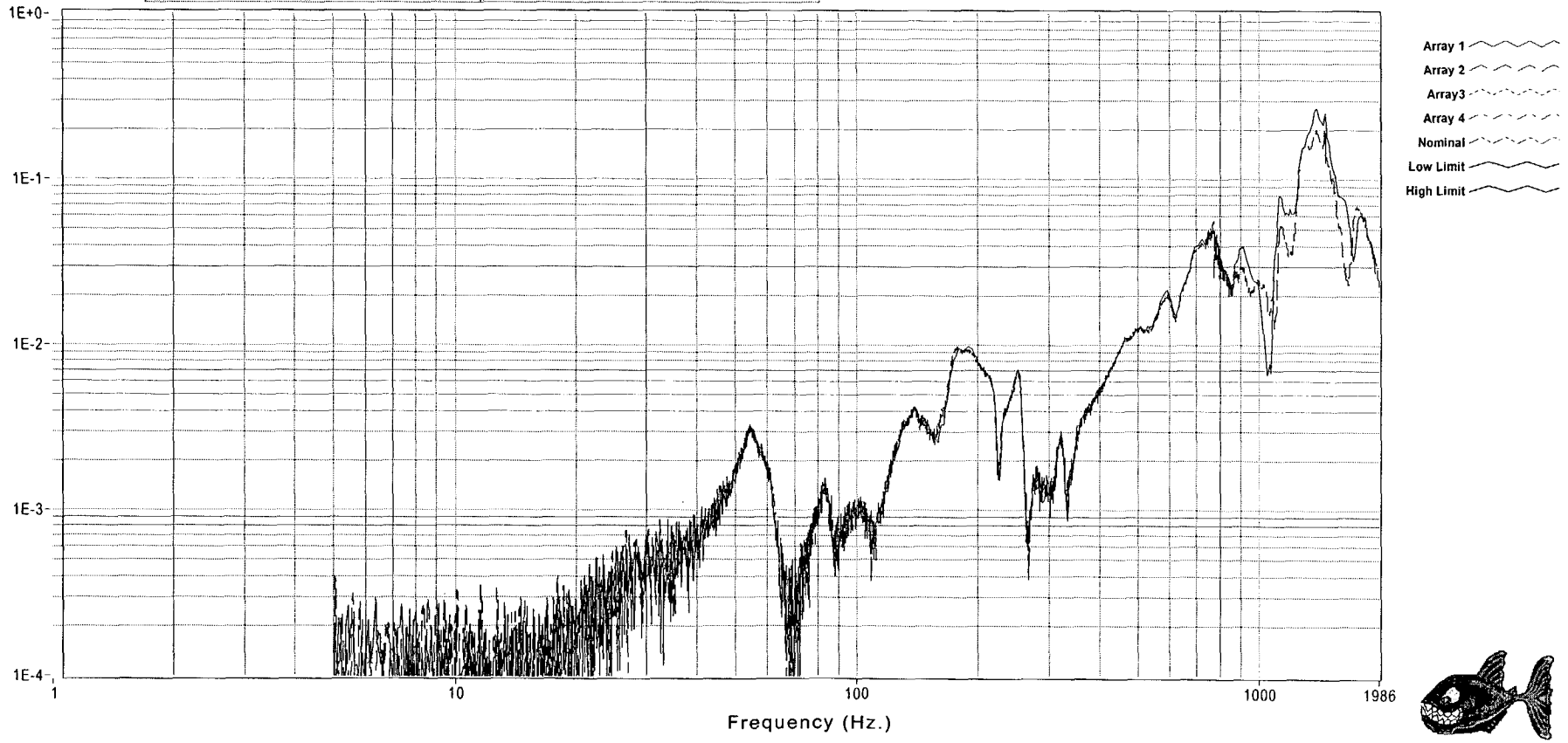
	Array 1 sine_Sine062410 North_Control_Y Channel #2	Array 2 sine_Sine062415 North_Control_Y Channel #2
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.495E-1 at 1492.0 Hz.	Maximum = 3.779E-1 at 1953.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	North_Control_Z Channel #3	North_Control_Z Channel #3
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.695E-1 at 1391.0 Hz.	Maximum = 2.038E-1 at 1460.0 Hz.
Overall or RMS	N/A	N/A



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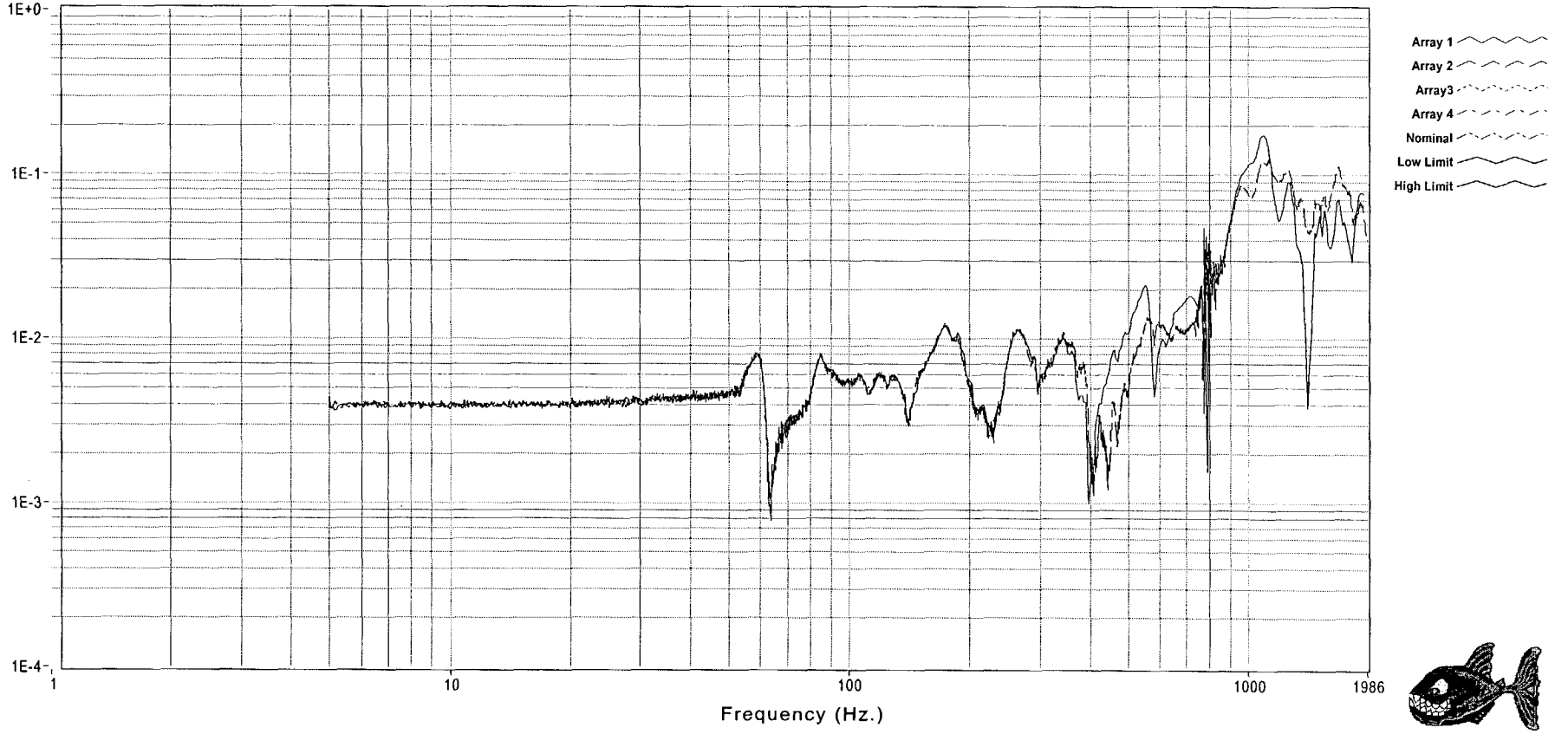
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	South_Control_X Channel #4	South_Control_X Channel #4
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	1	1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.750E-1 at 1085.0 Hz.	Maximum = 1.237E-1 at 1125.0 Hz.
Overall or RMS	N/A	N/A



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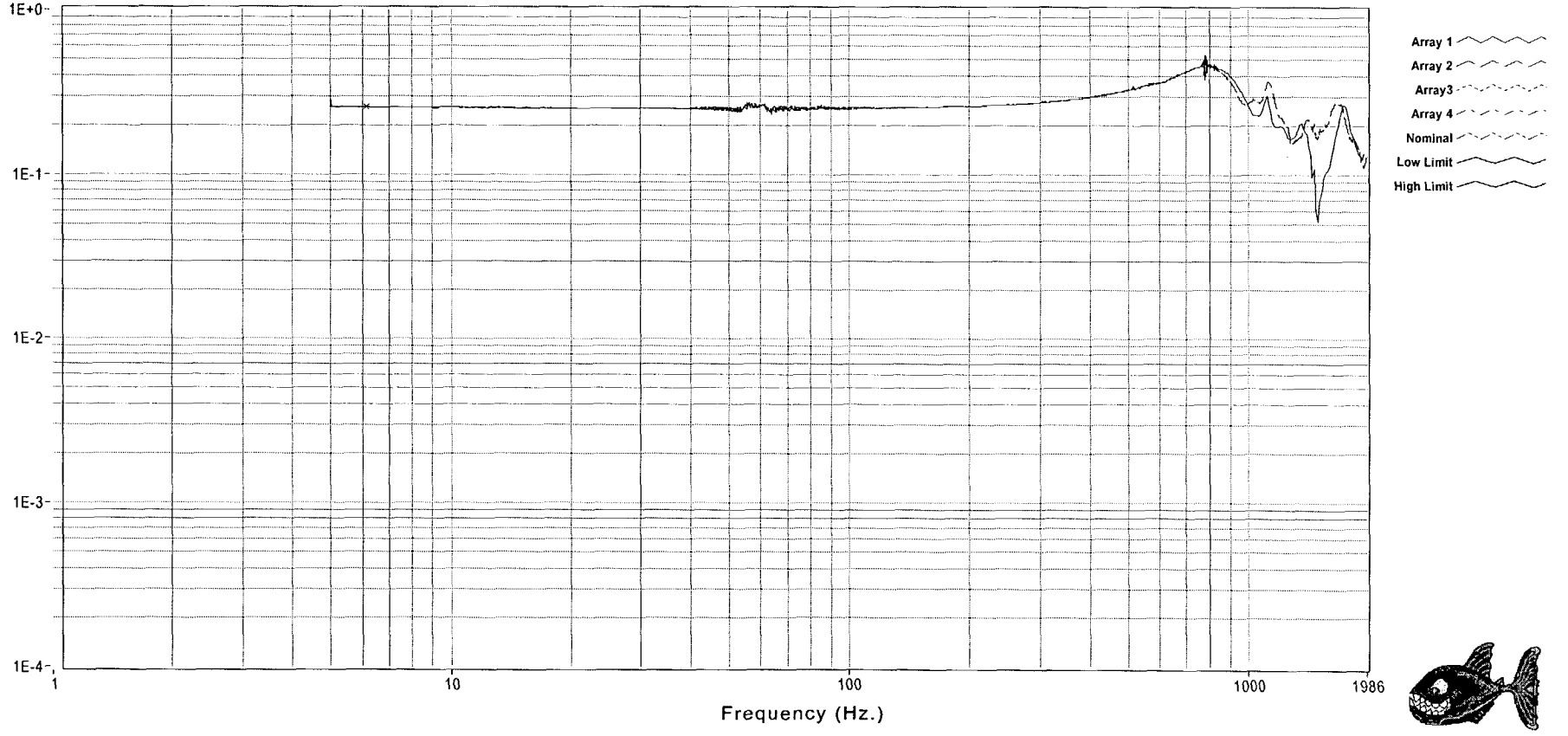
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	South_Control_Y Channel #5	South_Control_Y Channel #5
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.968E-1 at 773.5 Hz.	Maximum = 5.335E-1 at 782.4 Hz.
Overall or RMS	N/A	N/A



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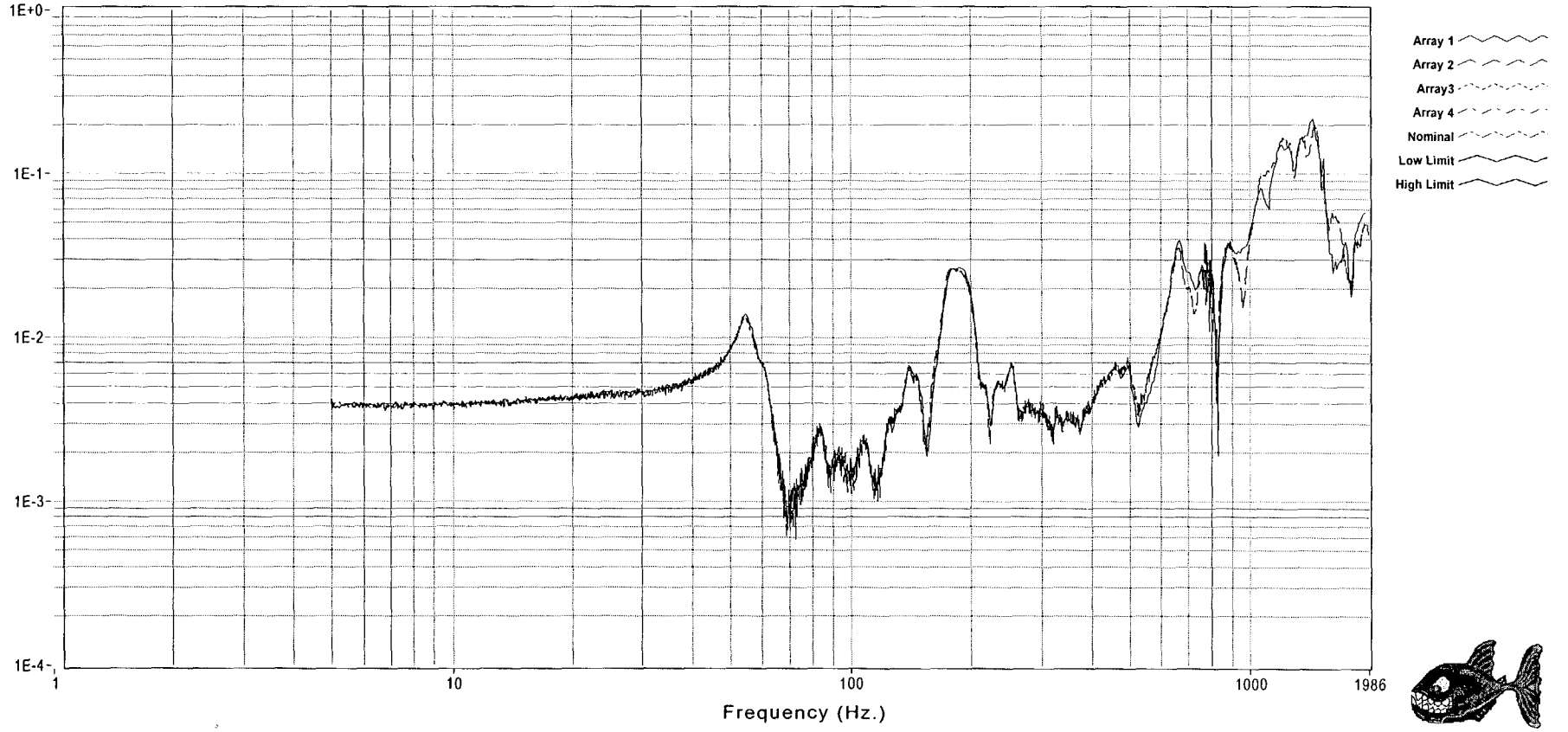
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	South_Control_Z Channel #6	South_Control_Z Channel #6
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.173E-1 at 1433.0 Hz.	Maximum = 1.977E-1 at 1454.0 Hz.
Overall or RMS	N/A	N/A



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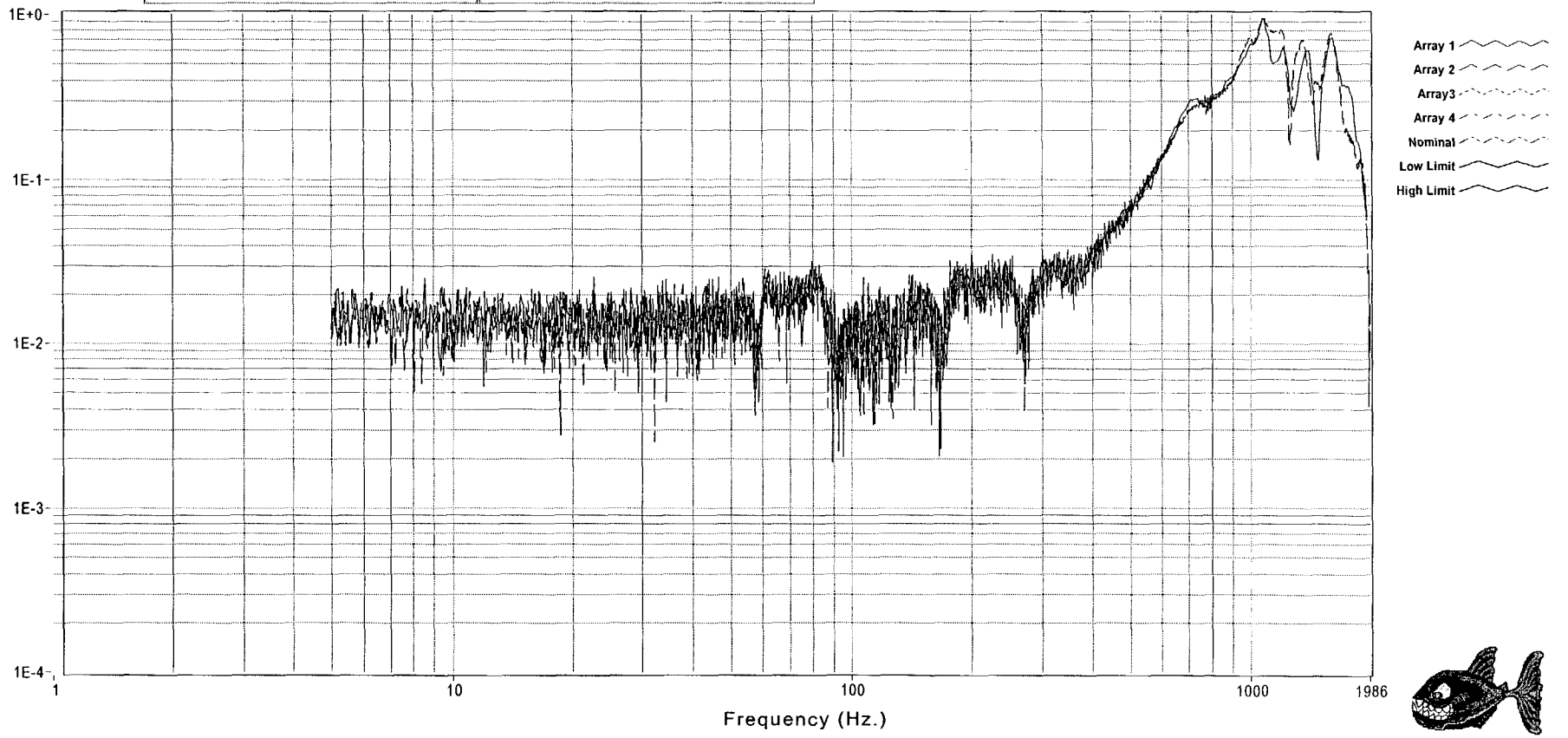
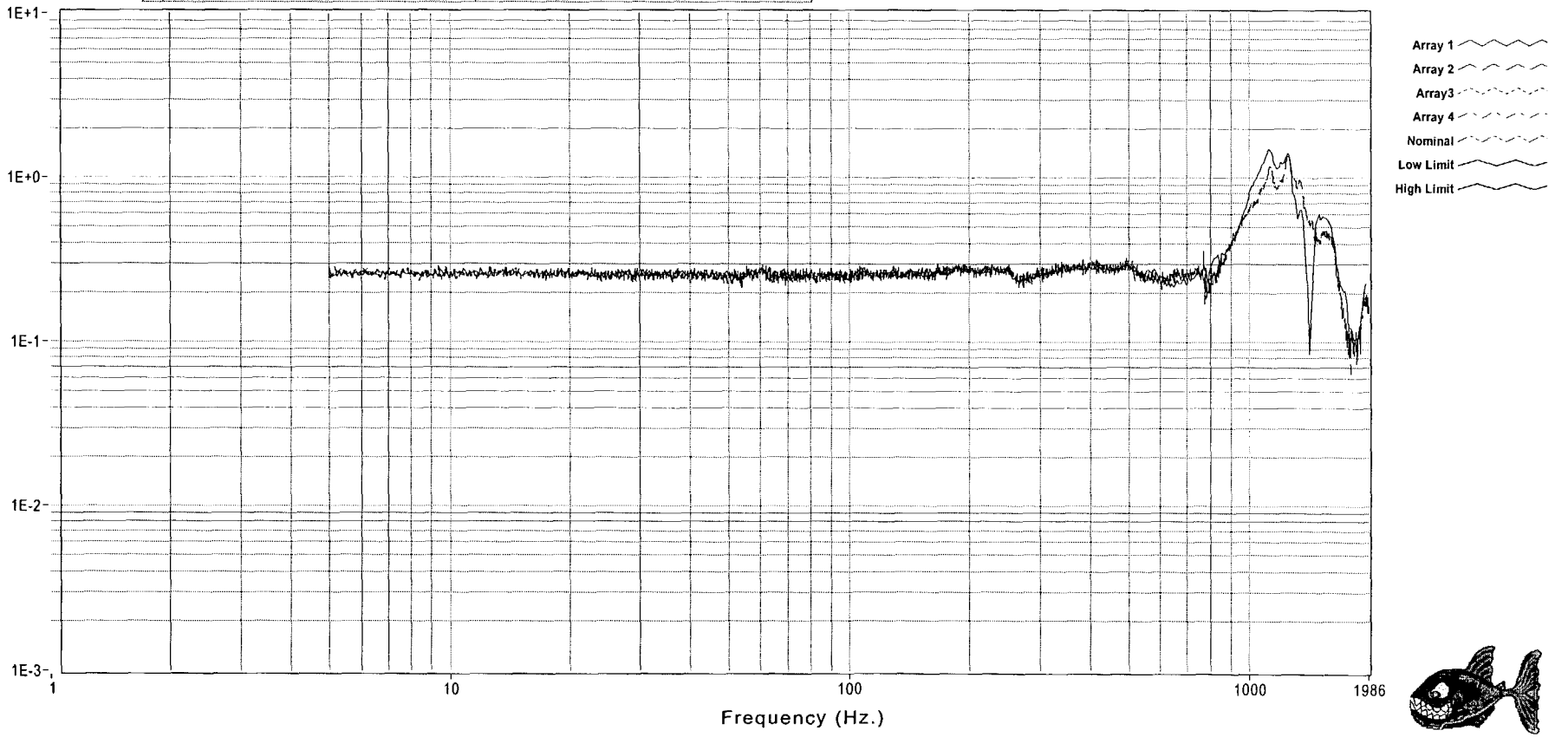
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A5 X Channel #7	A5 X Channel #7
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.444E-1 at 1074.0 Hz.	Maximum = 9.567E-1 at 1074.0 Hz.
Overall or RMS	N/A	N/A



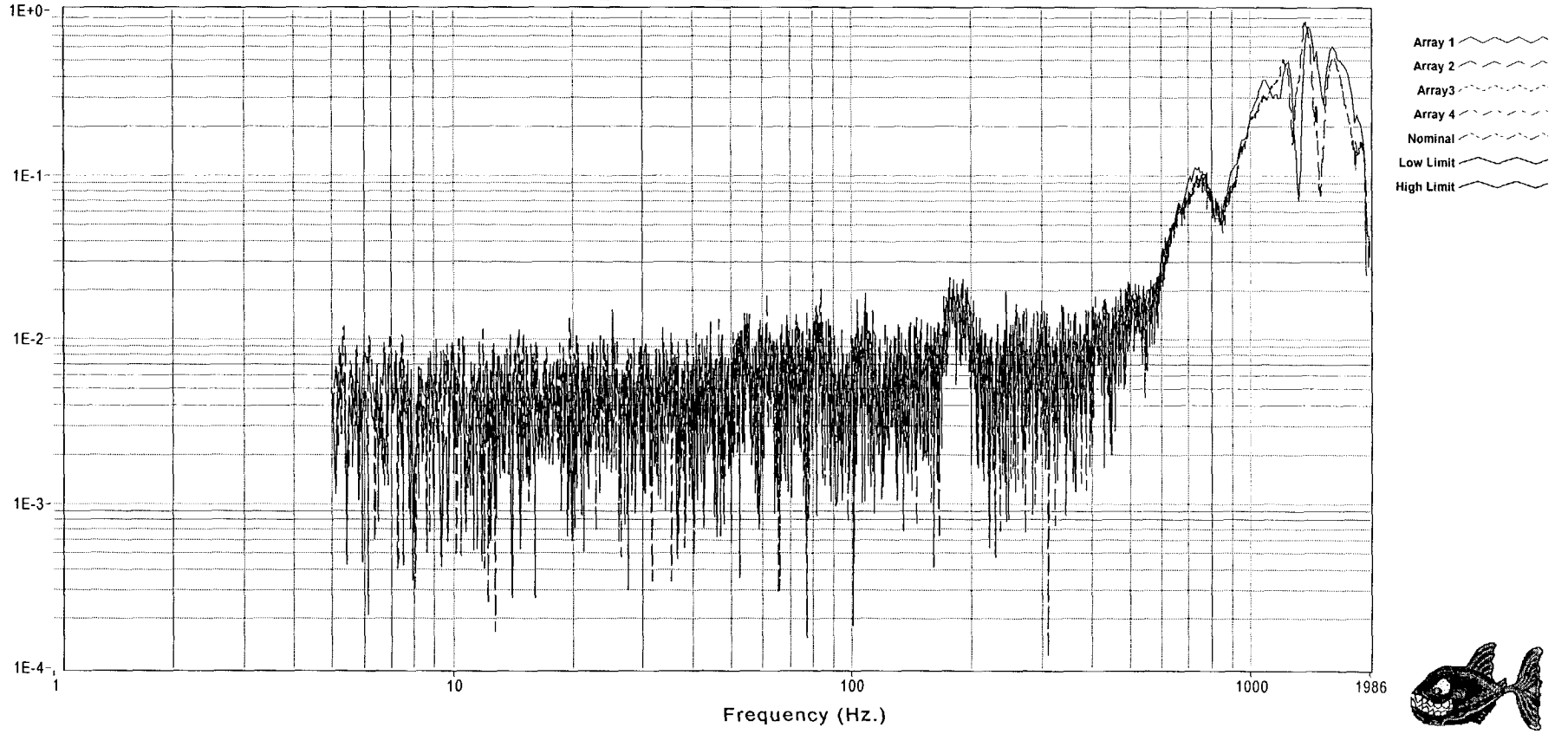
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A5 Y Channel #8	A5 Y Channel #8
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.498E+0 at 1129.0 Hz.	Maximum = 1.379E+0 at 1254.0 Hz.
Overall or RMS	N/A	N/A



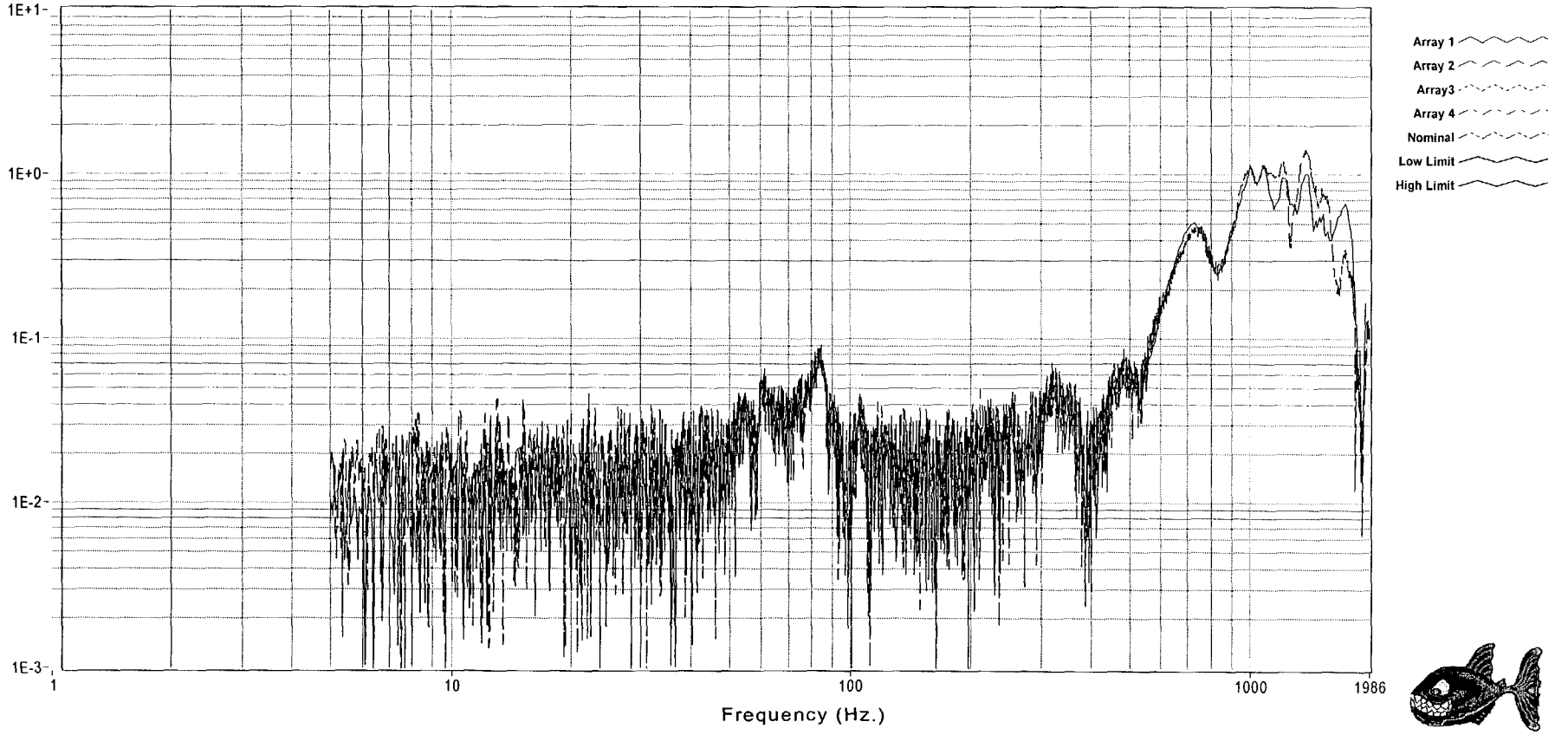
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A5 Z Channel #9	A5 Z Channel #9
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.988E-1 at 1391.0 Hz.	Maximum = 8.910E-1 at 1372.0 Hz.
Overall or RMS	N/A	N/A



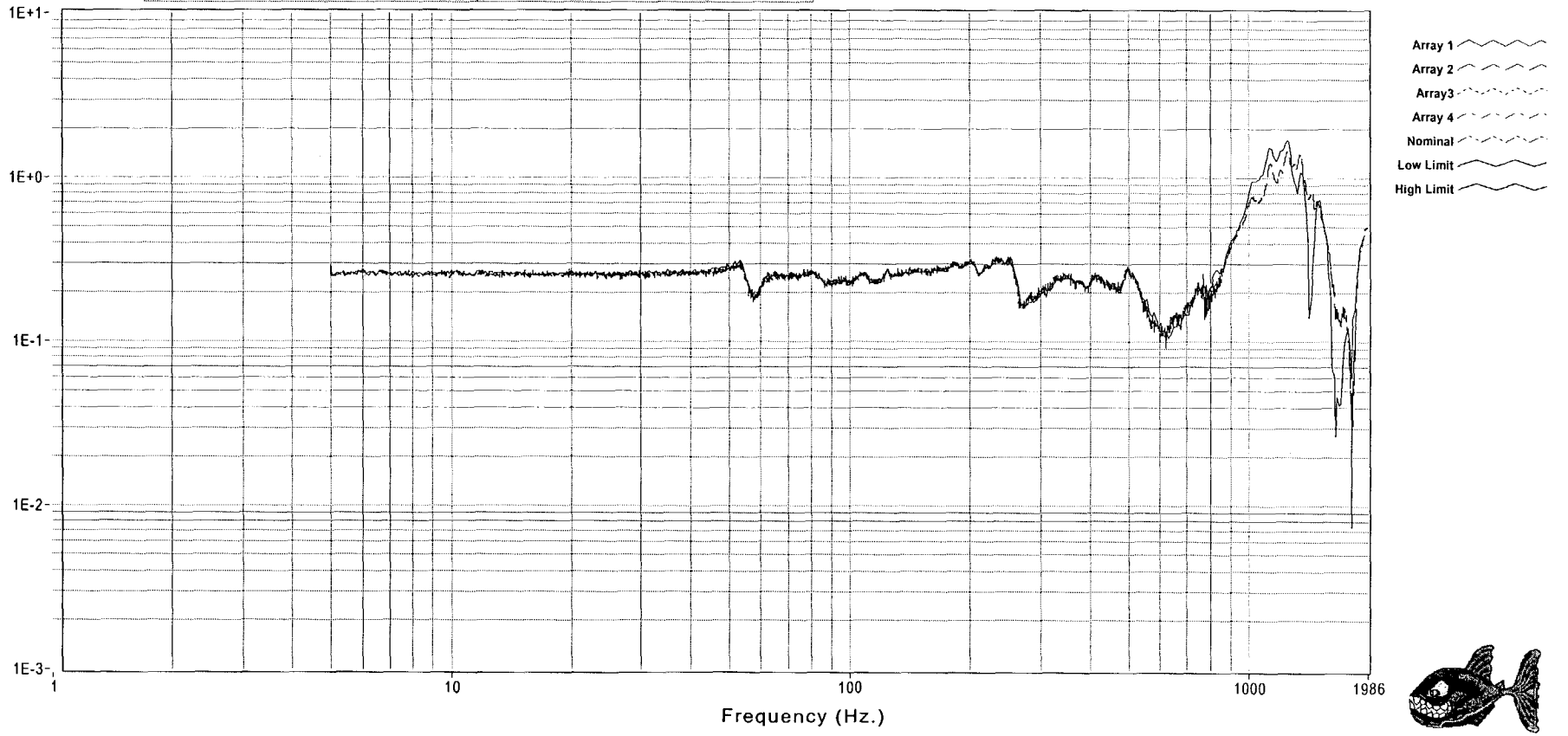
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A6 X Channel #10	A6 X Channel #10
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.111E+0 at 1085.0 Hz.	Maximum = 1.412E+0 at 1382.0 Hz.
Overall or RMS	N/A	N/A



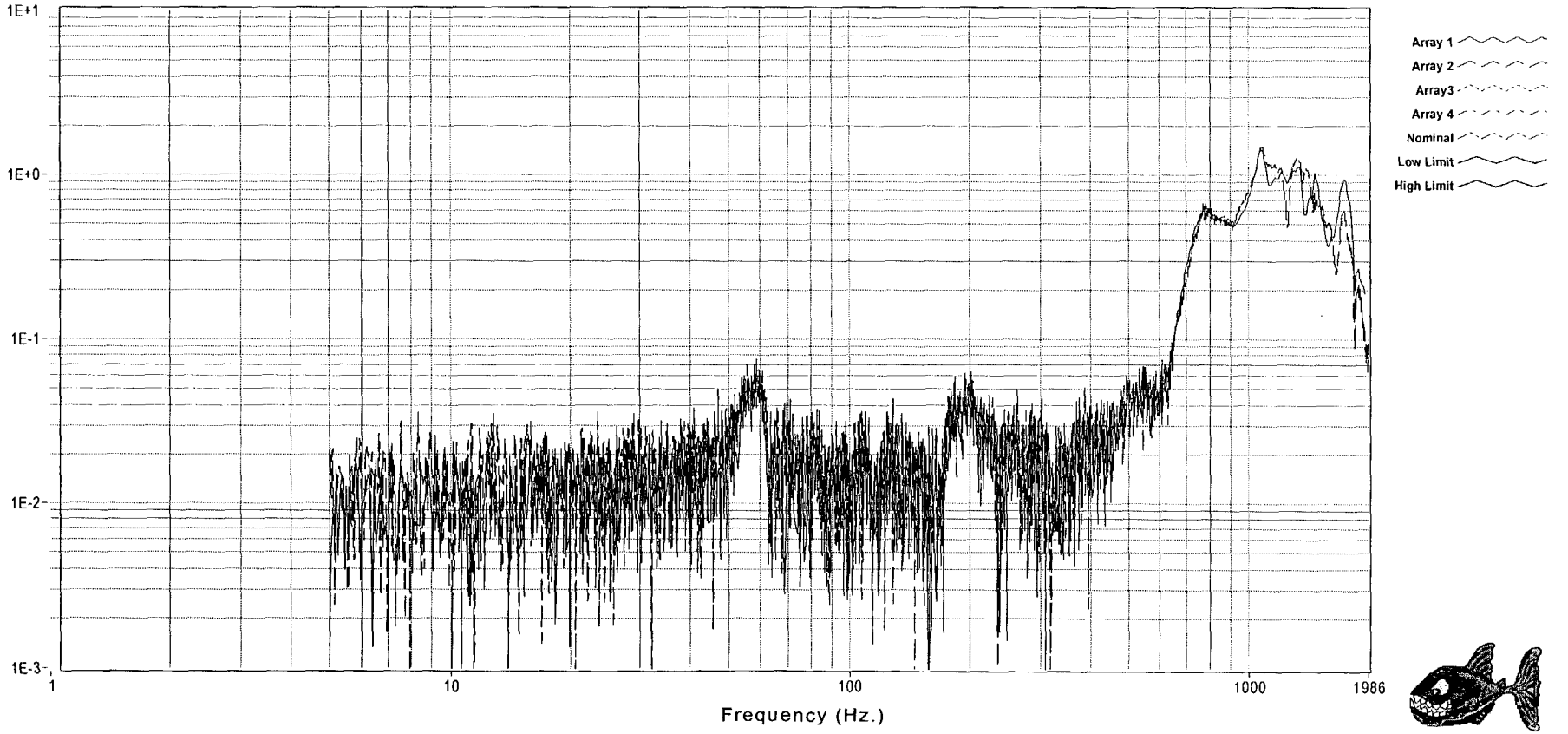
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A6 Y Channel #11	A6 Y Channel #11
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.727E+0 at 1247.0 Hz.	Maximum = 1.477E+0 at 1245.0 Hz.
Overall or RMS	N/A	N/A



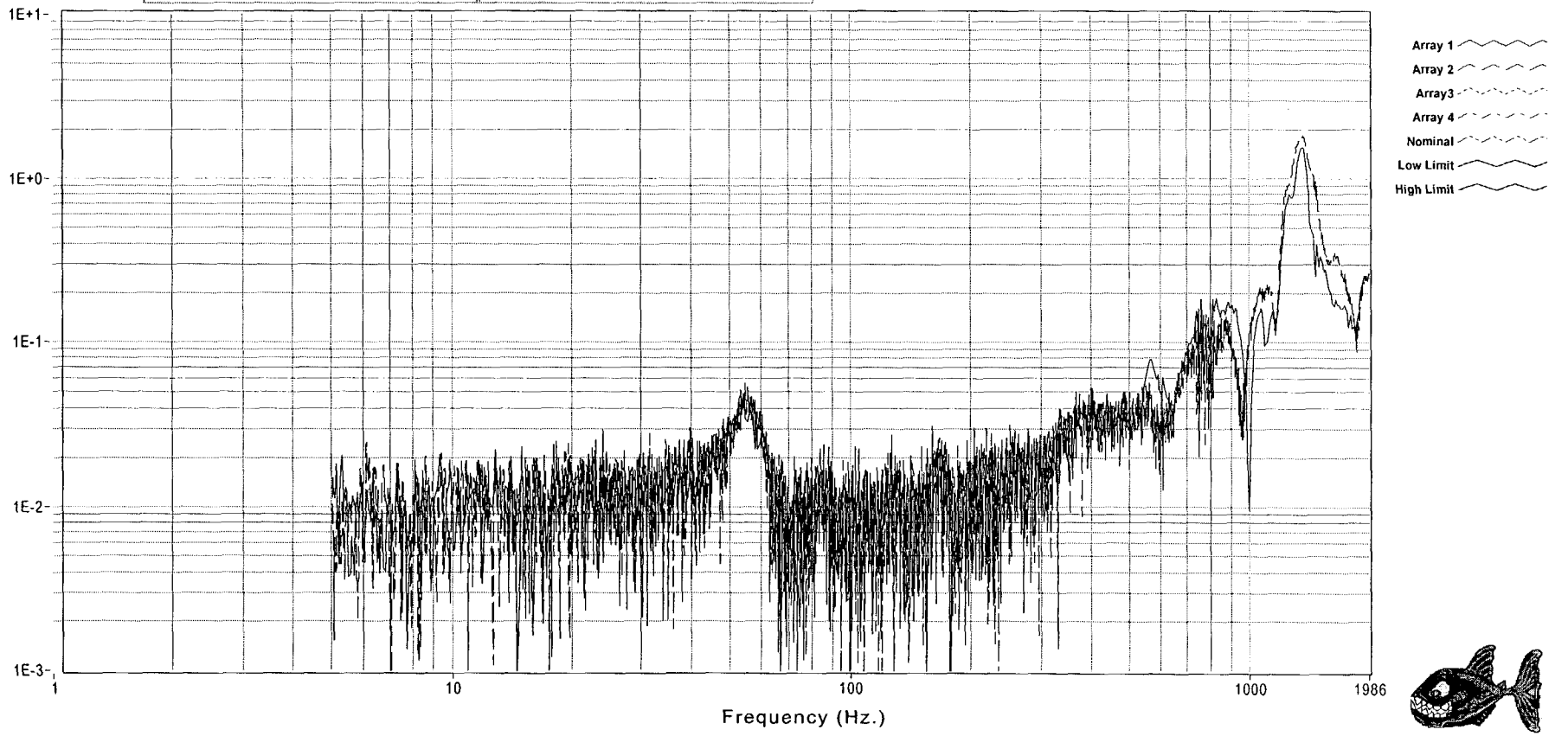
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A6 Z Channel #12	A6 Z Channel #12
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.441E+0 at 1074.0 Hz.	Maximum = 1.492E+0 at 1084.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A7 X Channel #17	A7 X Channel #17
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.554E+0 at 1364.0 Hz.	Maximum = 1.819E+0 at 1364.0 Hz.
Overall or RMS	N/A	N/A



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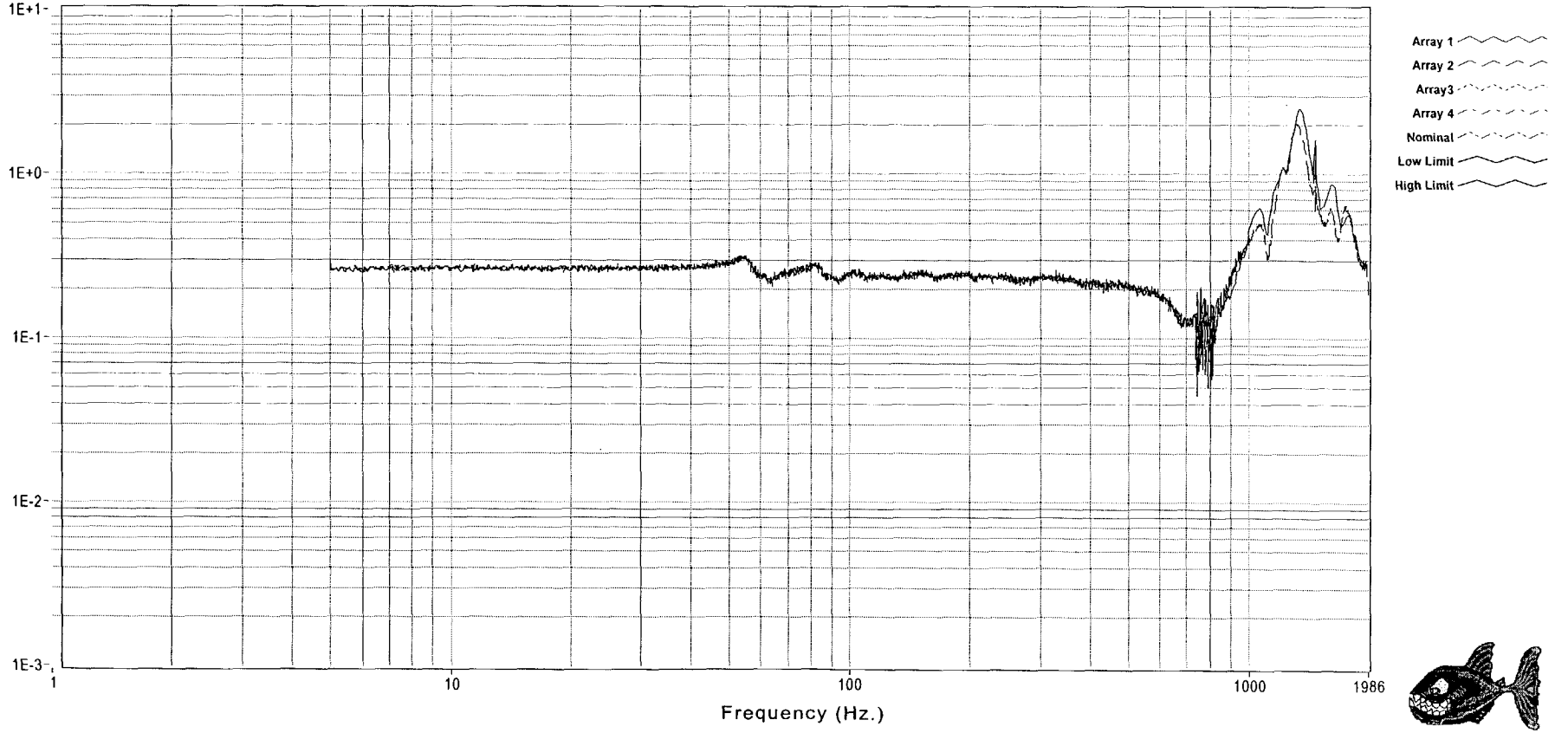
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A7 Y Channel #18	A7 Y Channel #18
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.508E+0 at 1337.0 Hz.	Maximum = 2.019E+0 at 1329.0 Hz.
Overall or RMS	N/A	N/A



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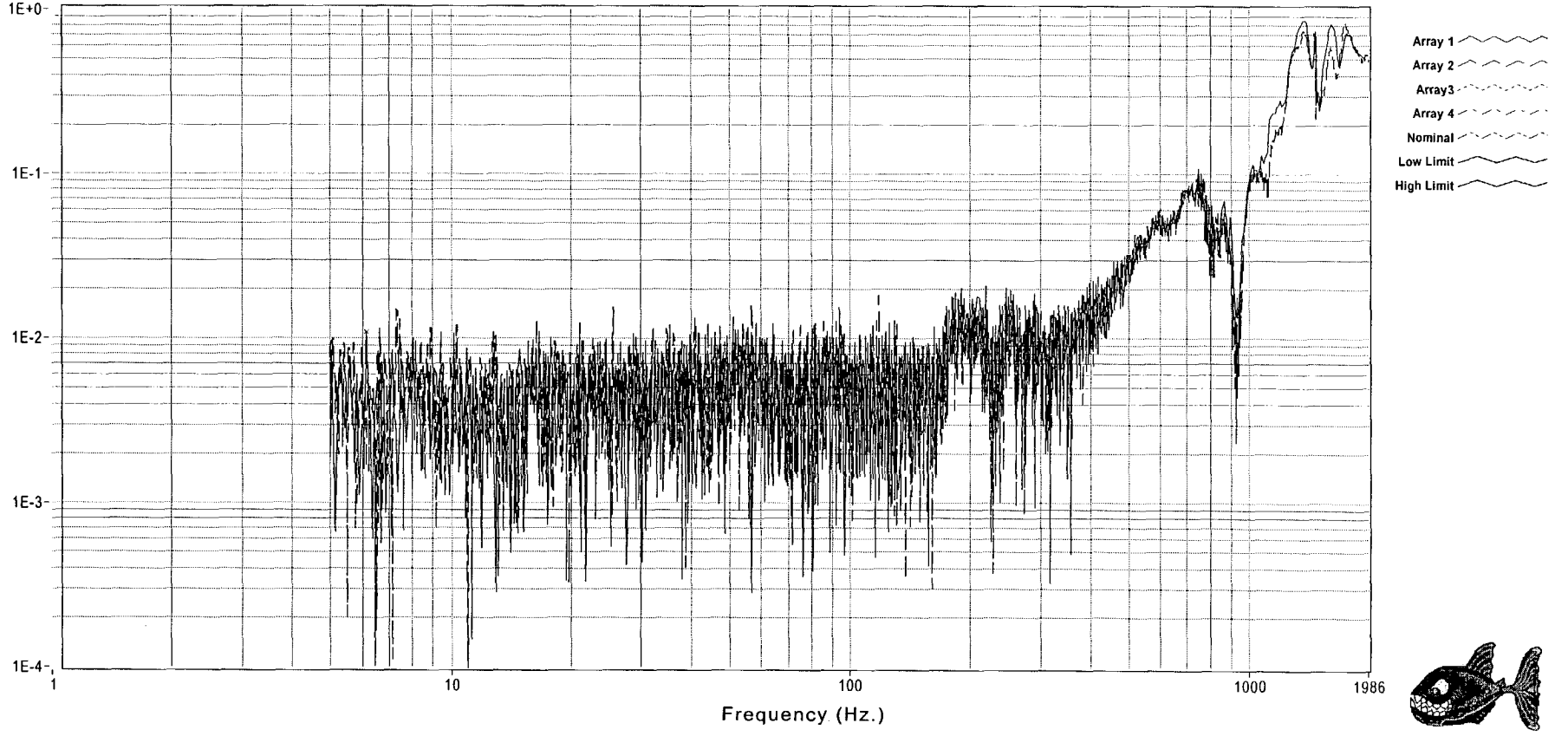
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A7 Z Channel #19	A7 Z Channel #19
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.587E-1 at 1377.0 Hz.	Maximum = 8.325E-1 at 1739.0 Hz.
Overall or RMS	N/A	N/A



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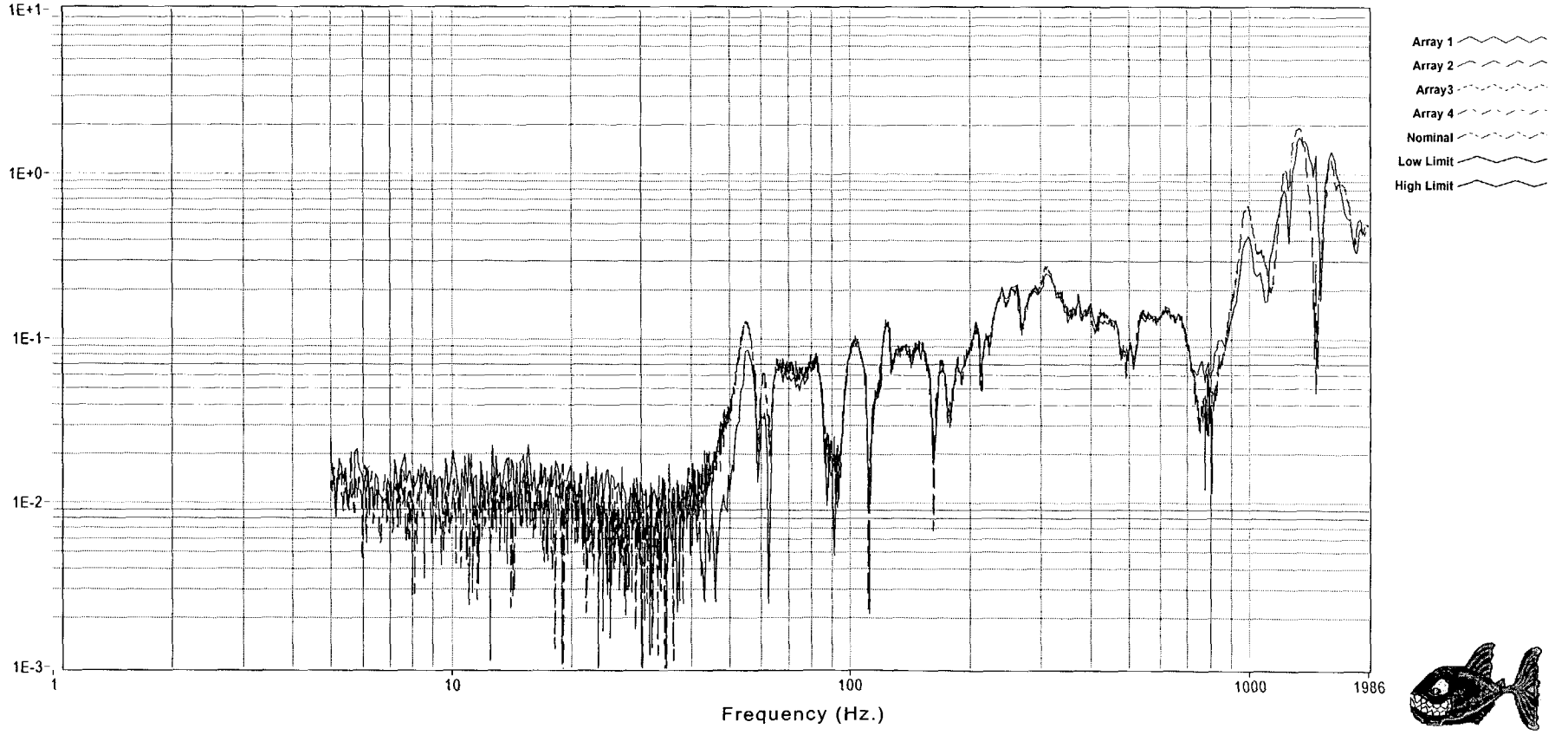
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A8 X Channel #20	A8 X Channel #20
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.679E+0 at 1337.0 Hz.	Maximum = 1.930E+0 at 1330.0 Hz.
Overall or RMS	N/A	N/A



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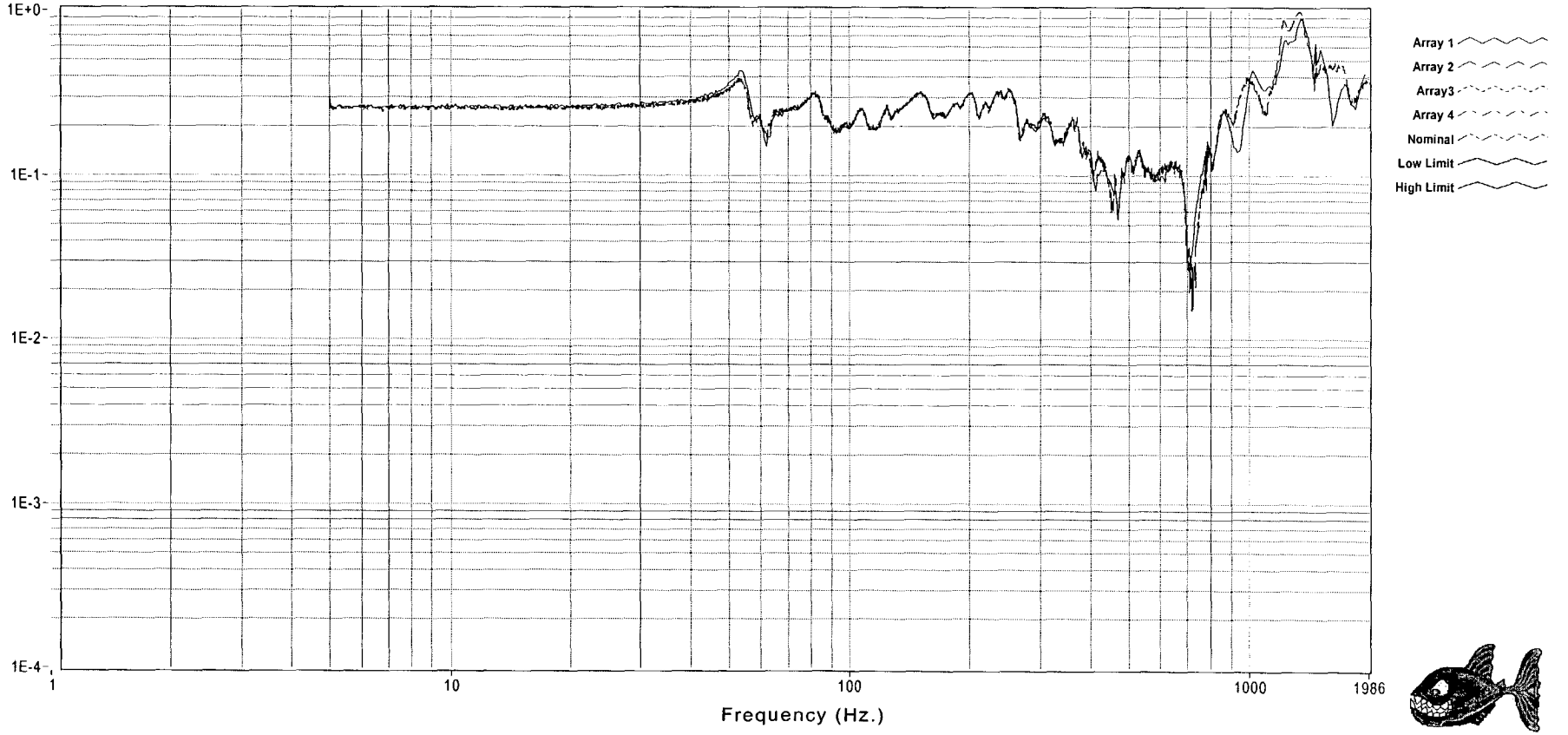
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A8 Y Channel #21	A8 Y Channel #21
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	0.01034	0.01034
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.016E-1 at 1350.0 Hz.	Maximum = 9.967E-1 at 1337.0 Hz.
Overall or RMS	N/A	N/A



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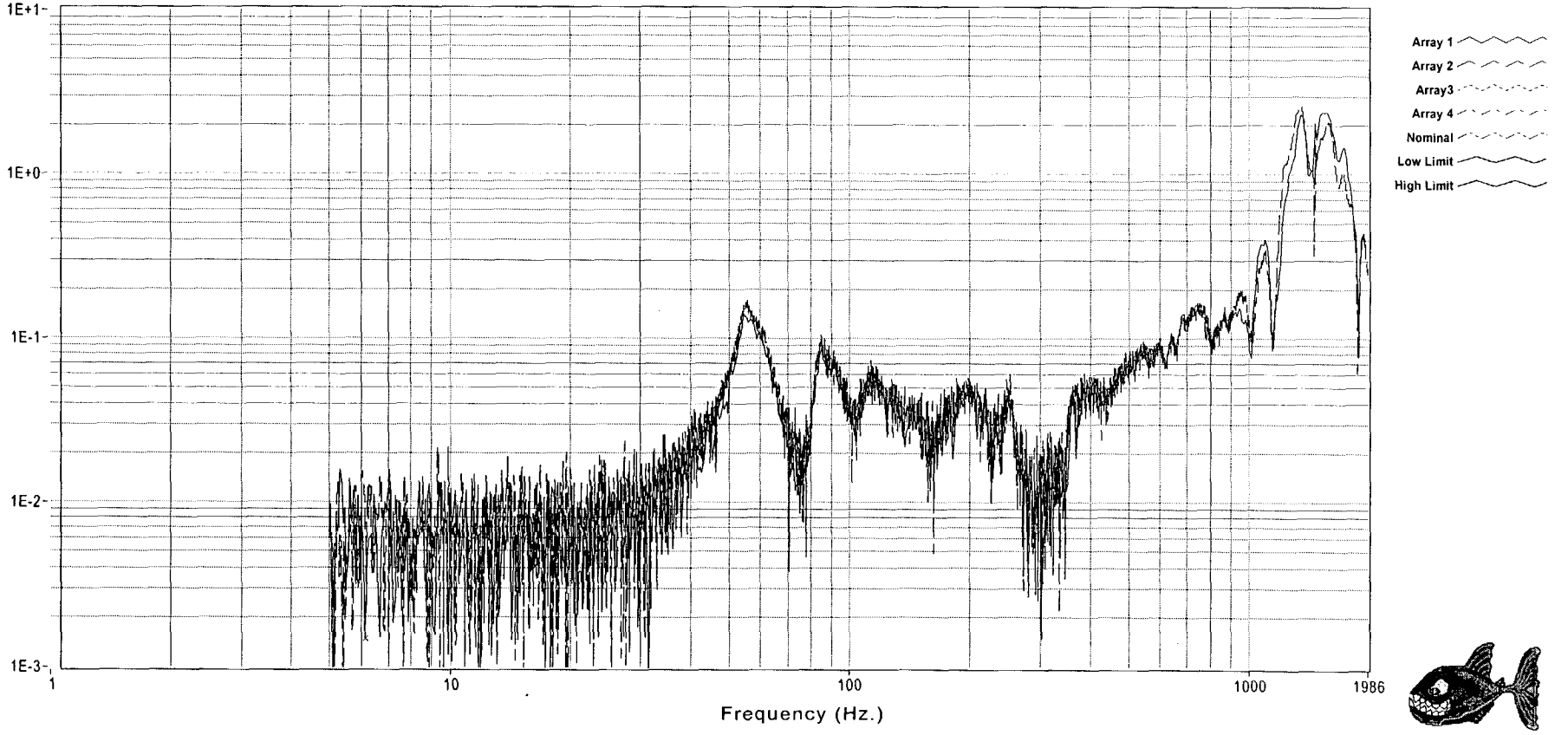
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A8 Z Channel #22	A8 Z Channel #22
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	0.01029	0.01029
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.417E+0 at 1568.0 Hz.	Maximum = 2.619E+0 at 1346.0 Hz.
Overall or RMS	N/A	N/A



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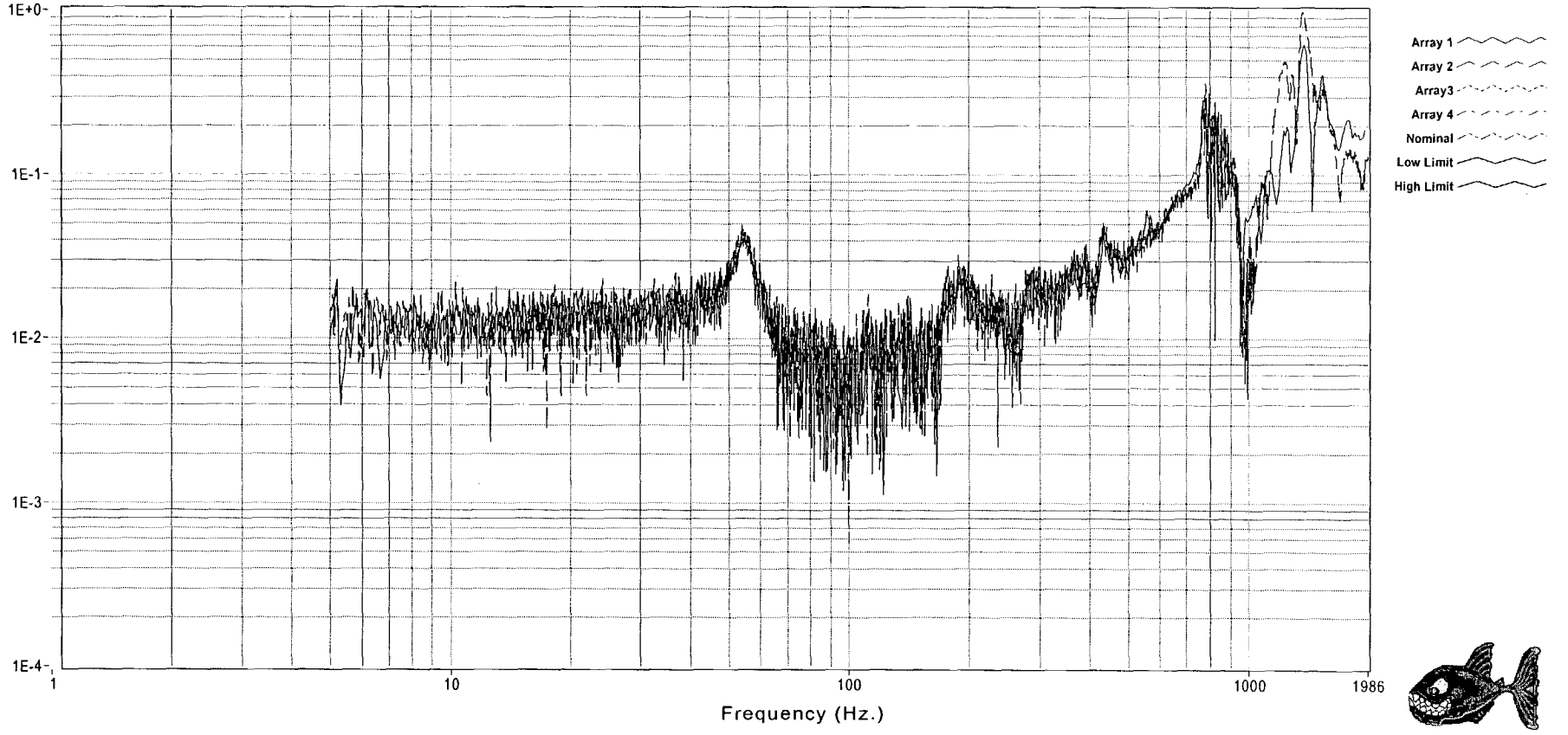
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A9 X Channel #23	A9 X Channel #23
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.255E-1 at 1377.0 Hz.	Maximum = 9.809E-1 at 1371.0 Hz.
Overall or RMS	N/A	N/A



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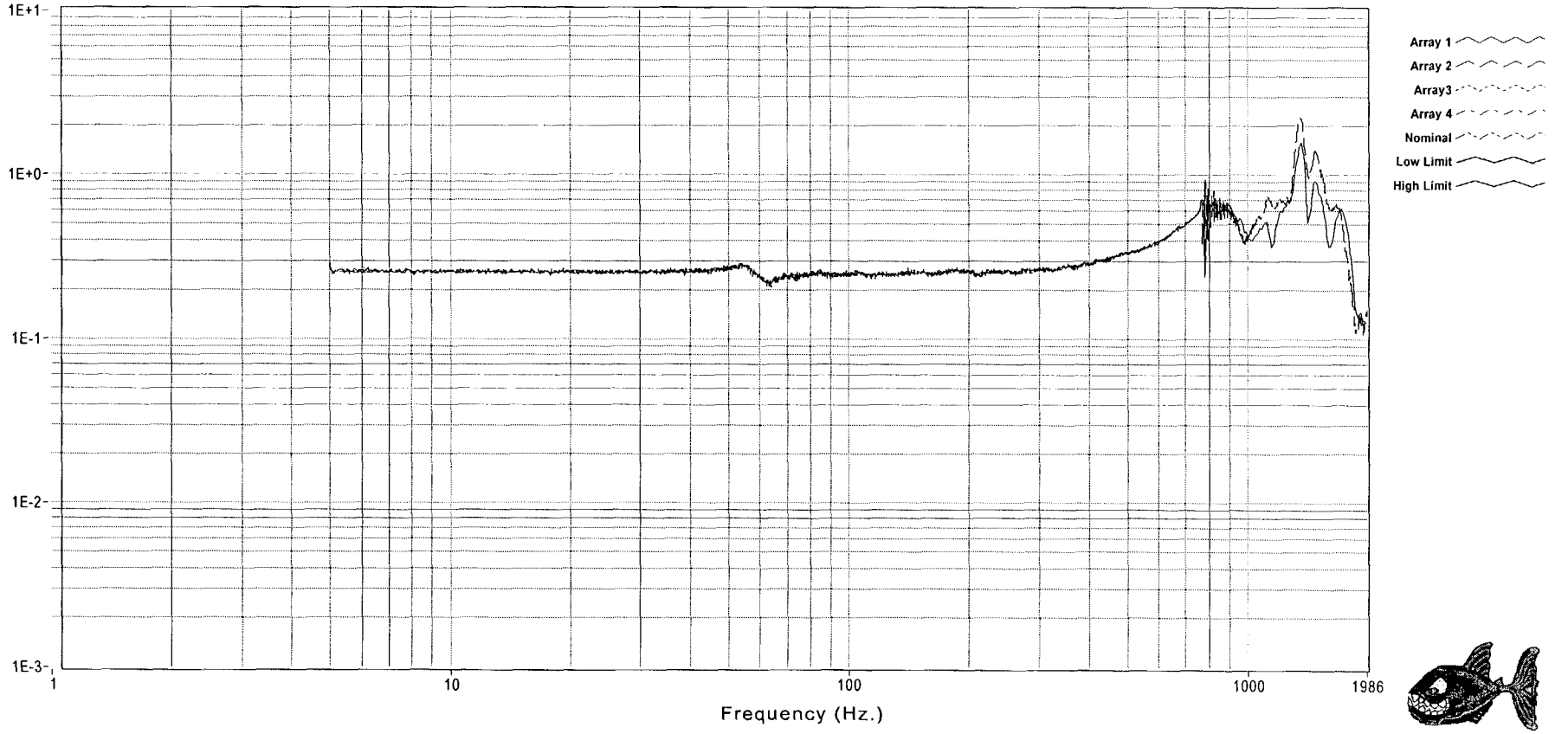
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A9 Y Channel #24	A9 Y Channel #24
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.584E+0 at 1364.0 Hz.	Maximum = 2.223E+0 at 1357.0 Hz.
Overall or RMS	N/A	N/A



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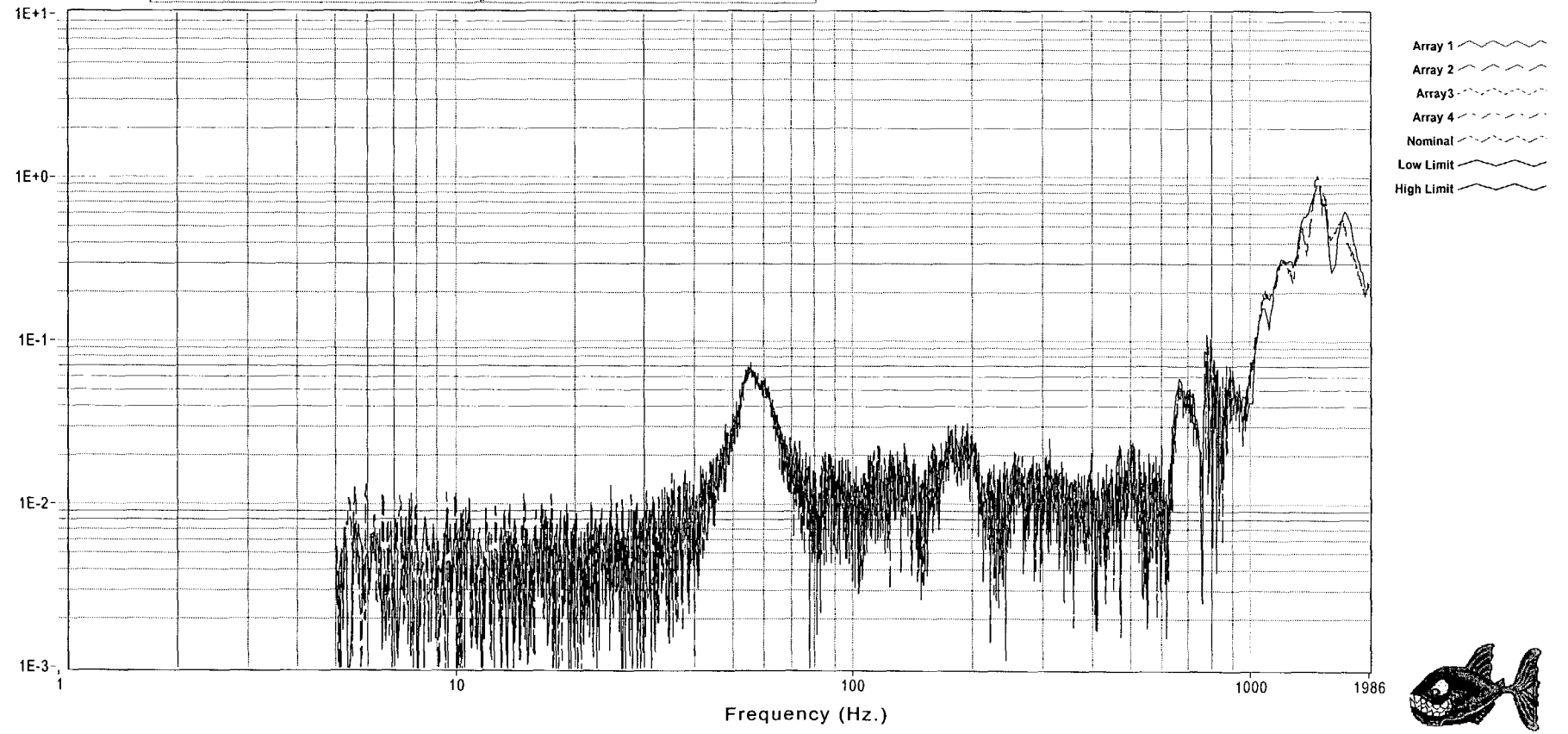
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A9 Z Channel #25	A9 Z Channel #25
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.094E-1 at 1477.0 Hz.	Maximum = 1.026E+0 at 1476.0 Hz.
Overall or RMS	N/A	N/A



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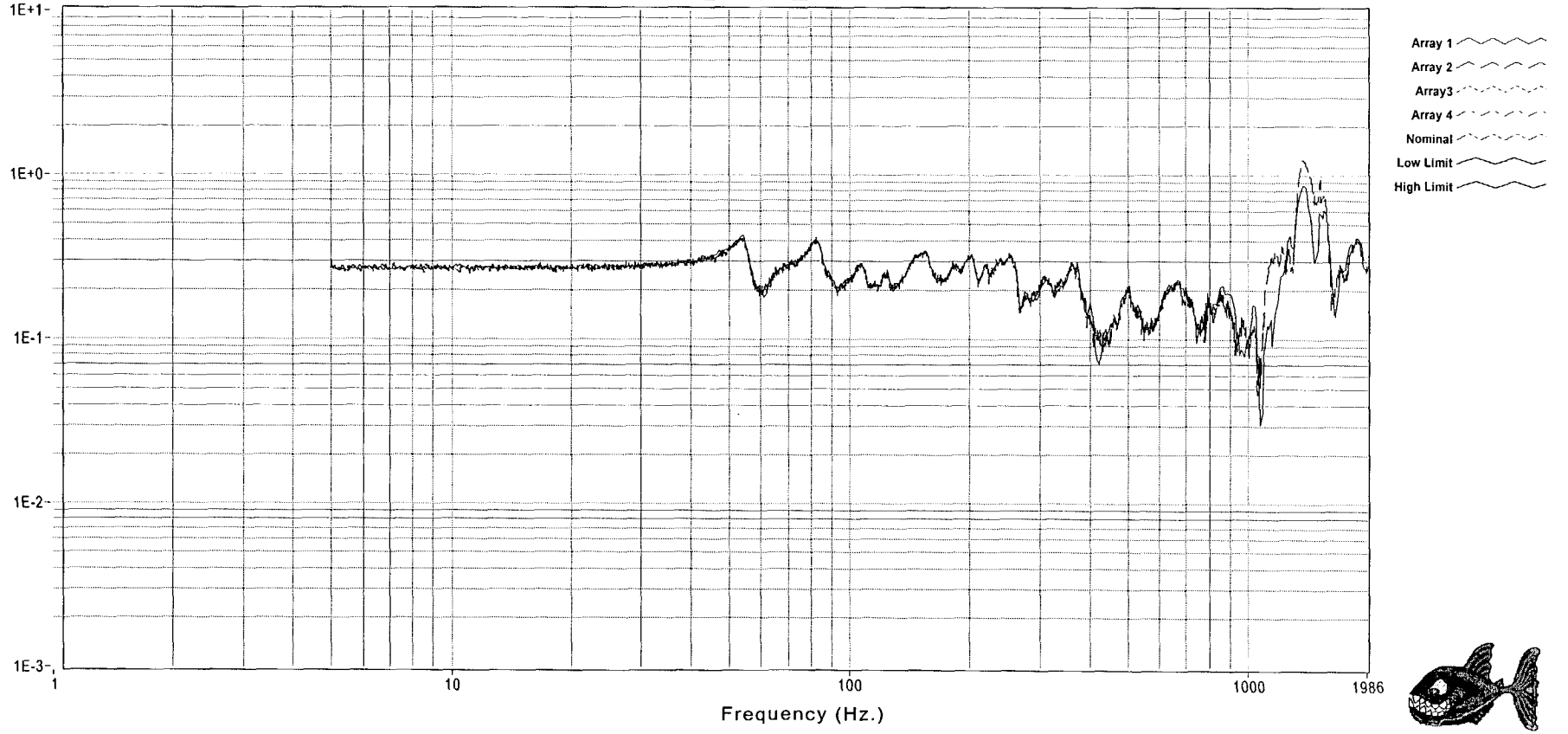
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A10 X Channel #26	A10 X Channel #26
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.744E-1 at 1377.0 Hz.	Maximum = 1.254E+0 at 1374.0 Hz.
Overall or RMS	N/A	N/A



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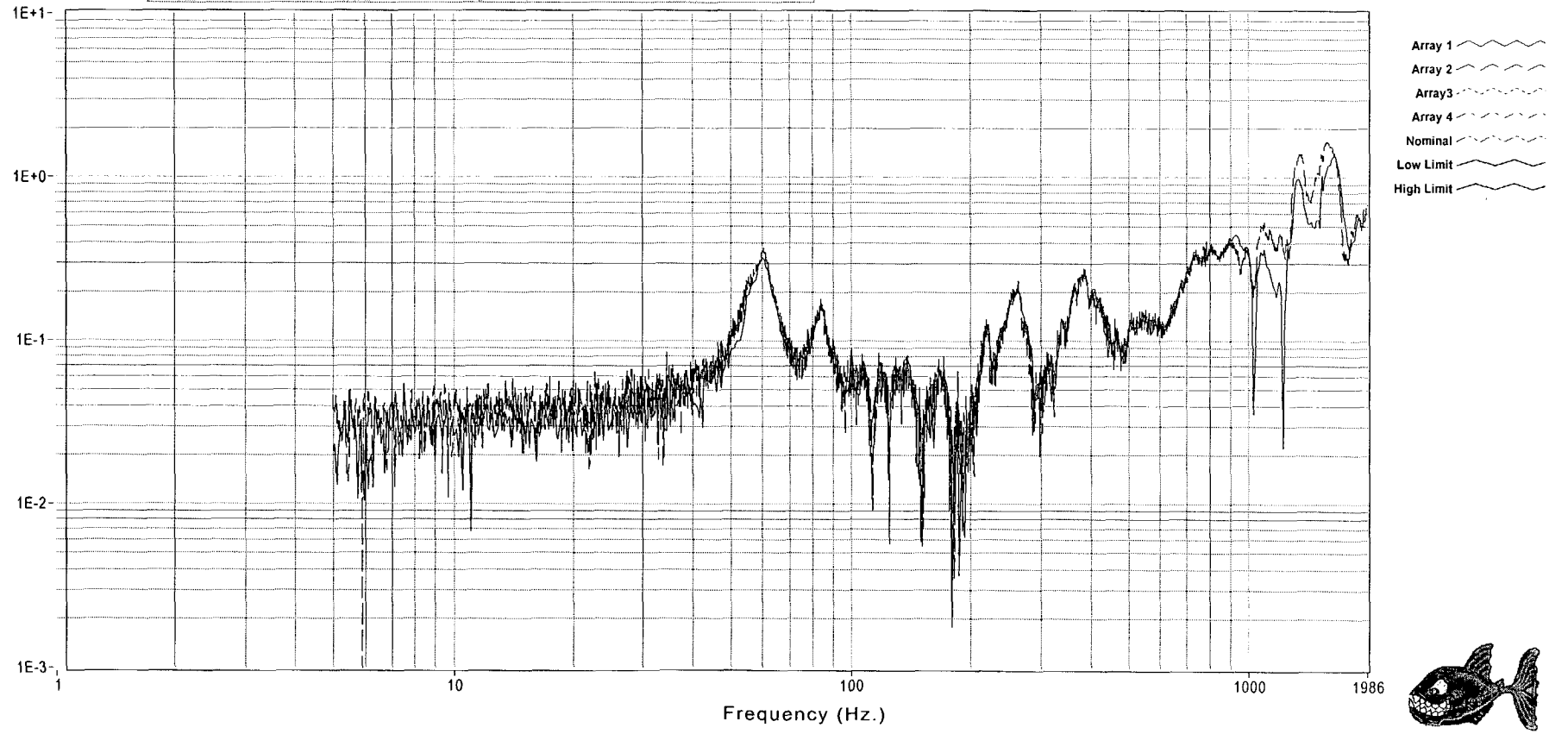
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A10 Y Channel #27	A10 Y Channel #27
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.363E+0 at 1648.0 Hz.	Maximum = 1.668E+0 at 1575.0 Hz.
Overall or RMS	N/A	N/A



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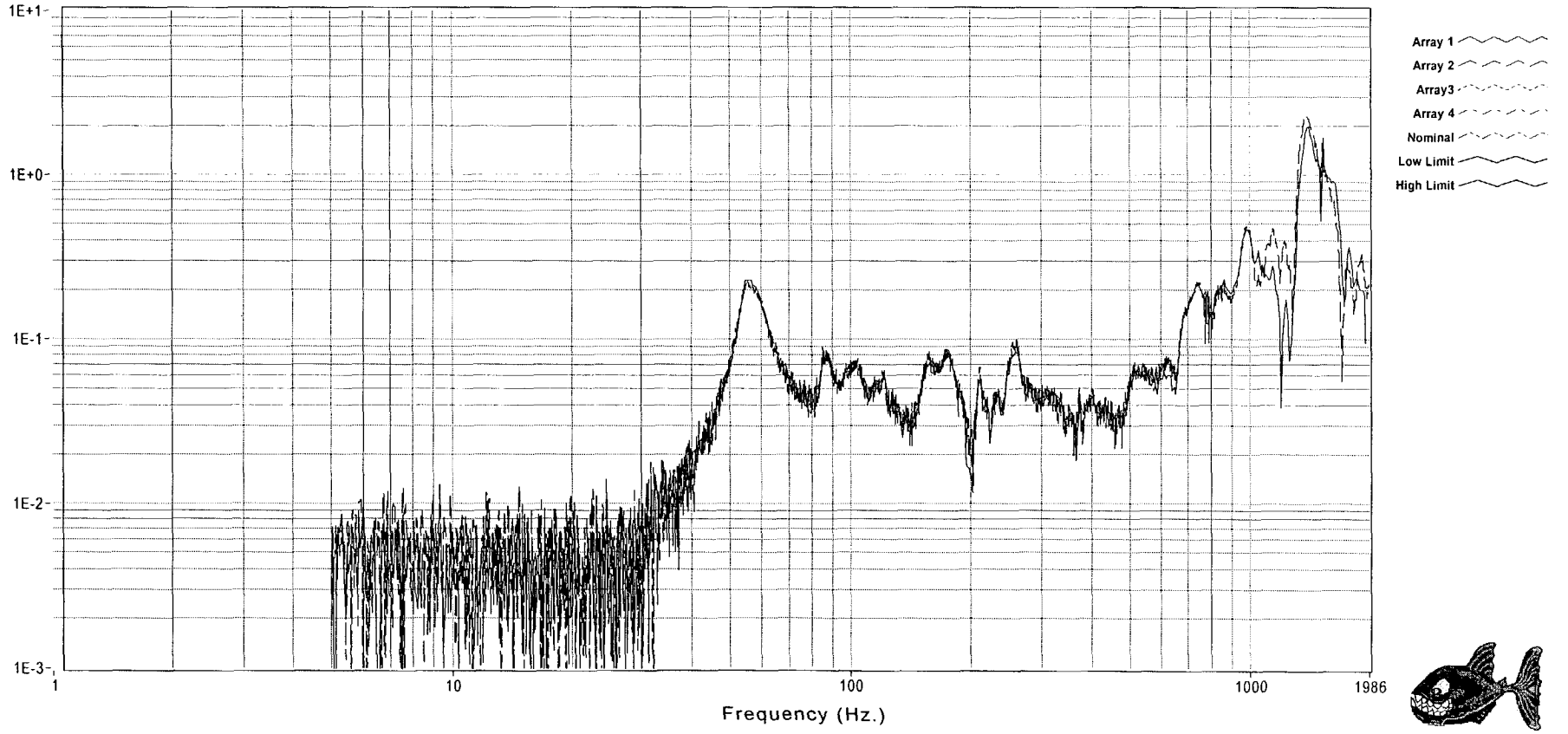
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A10 Z Channel #28	A10 Z Channel #28
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.955E+0 at 1391.0 Hz.	Maximum = 2.288E+0 at 1390.0 Hz.
Overall or RMS	N/A	N/A



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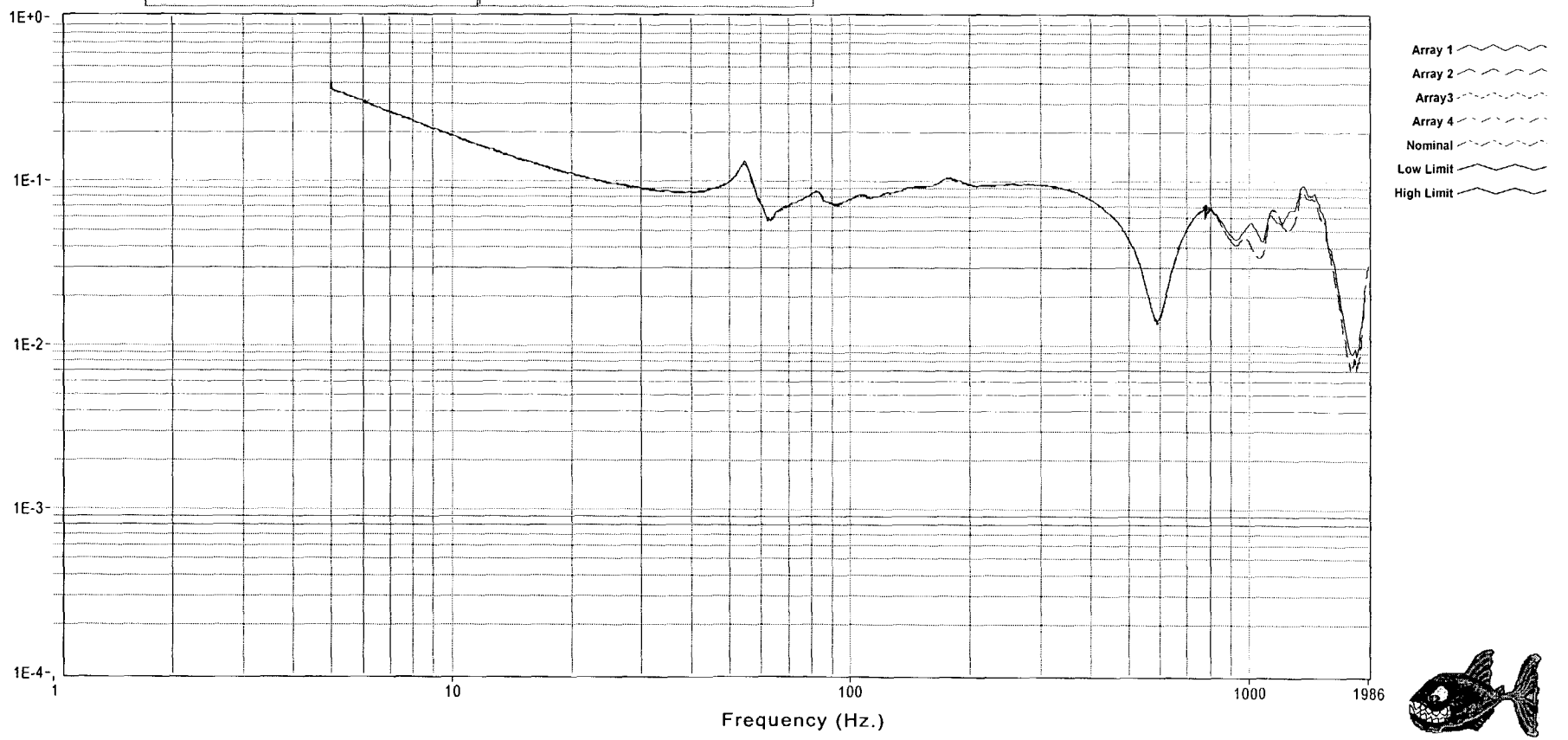
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	DRIVE Channel #31	DRIVE Channel #31
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.118E-1 at 5.0 Hz.	Maximum = 4.013E-1 at 5.0 Hz.
Overall or RMS	N/A	N/A



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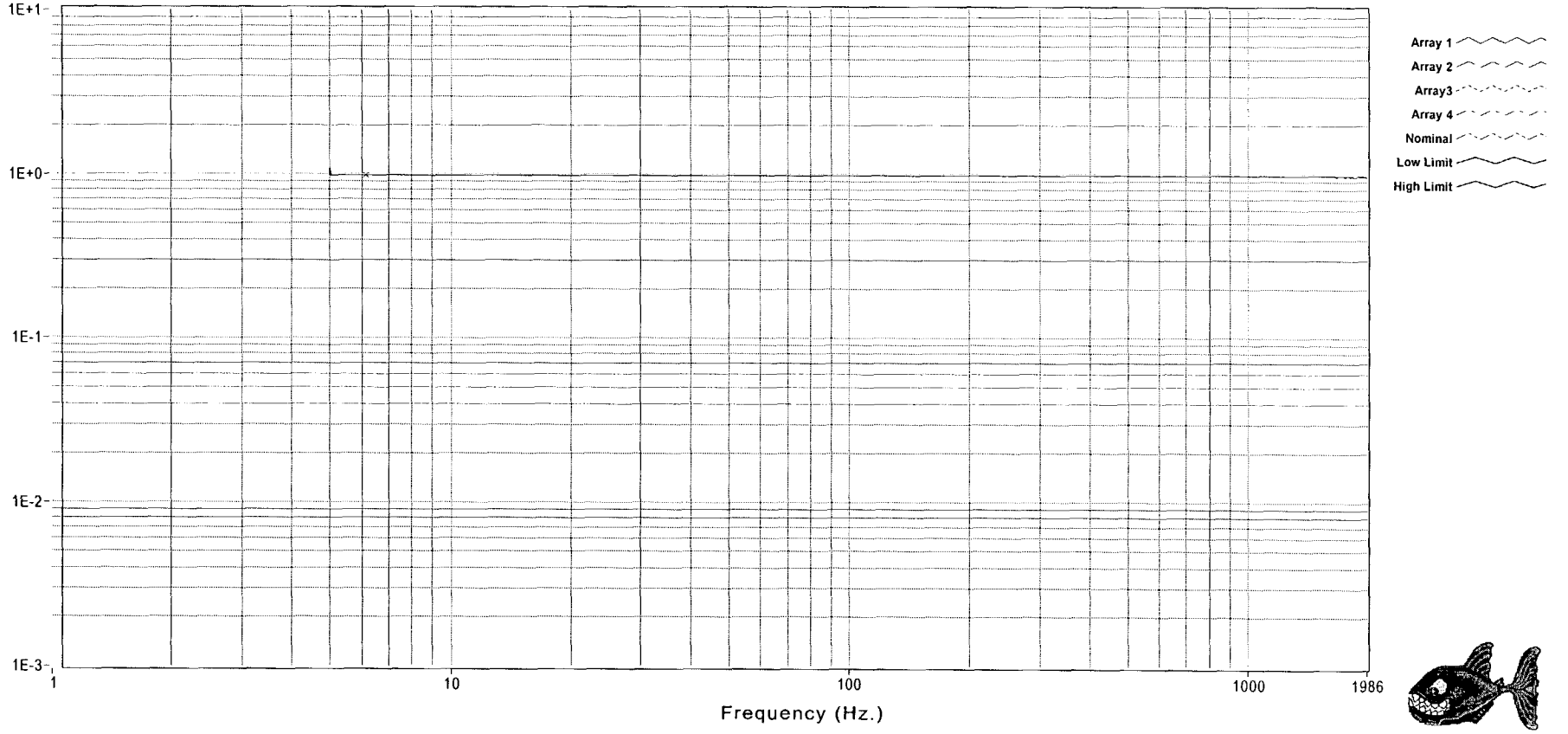
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	COLA Channel #32	COLA Channel #32
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.094E+0 at 5.0 Hz.	Maximum = 1.080E+0 at 5.0 Hz.
Overall or RMS	N/A	N/A



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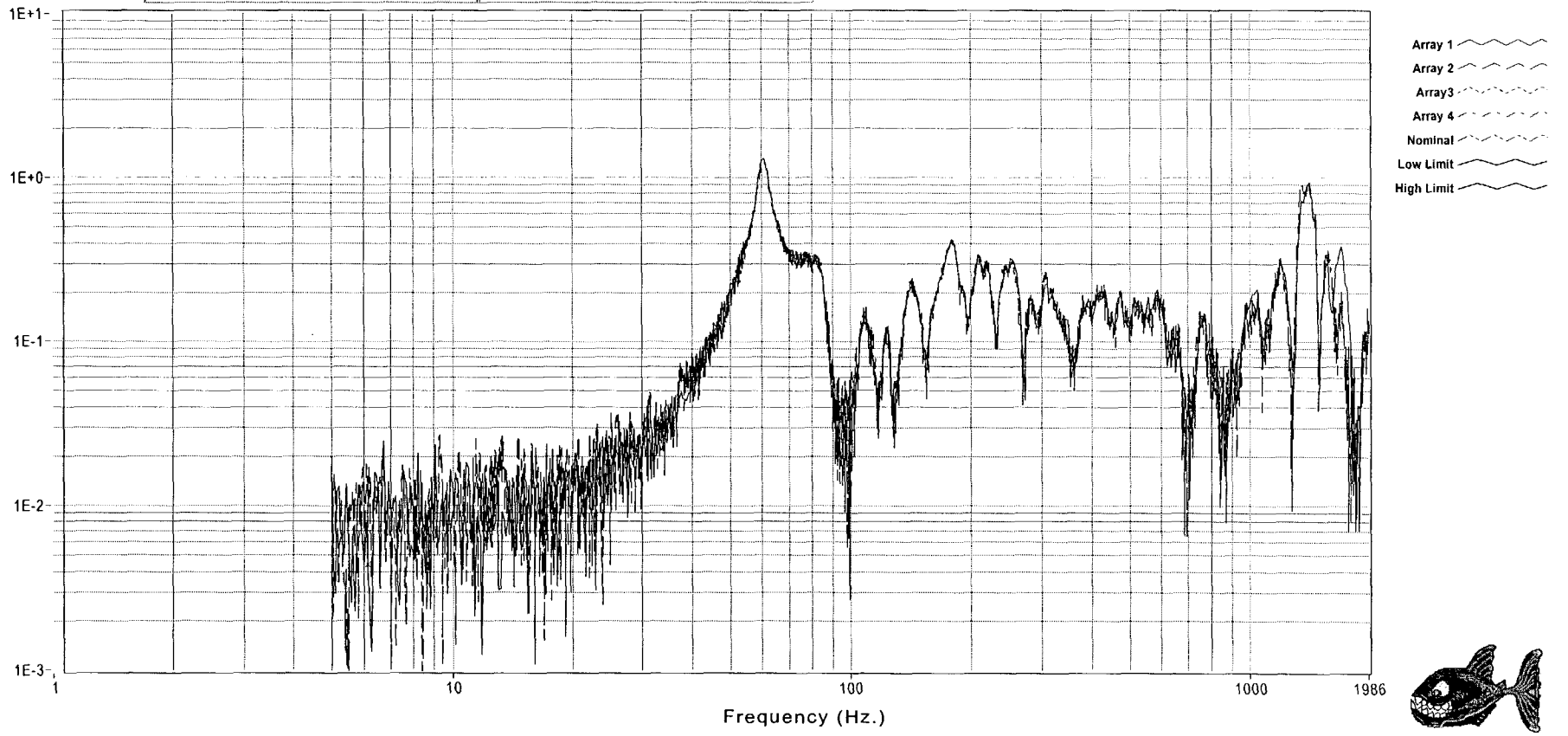
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A1X: +Y PANEL UPPER Channel #33	A1X: +Y PANEL UPPER Channel #33
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 1 SN=AE71-1	BOX 3 CH 1 SN=AE71-1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.305E+0 at 60.6 Hz.	Maximum = 1.309E+0 at 60.4 Hz.
Overall or RMS	N/A	N/A



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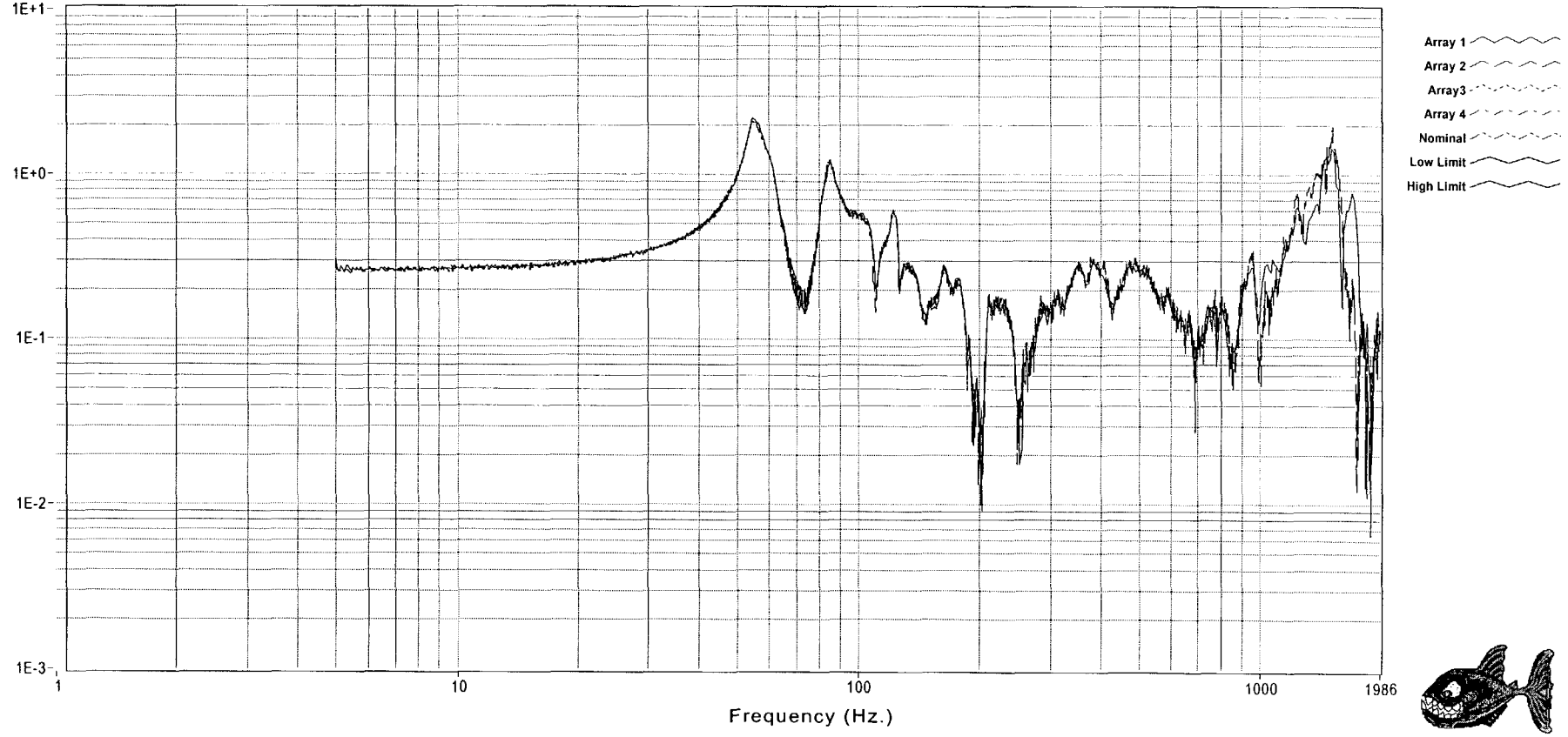
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A1Y: +Y PANEL UPPER Channel #34	A1Y: +Y PANEL UPPER Channel #34
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 2 SN=AC40	BOX 3 CH 2 SN=AC40
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.221E+0 at 54.8 Hz.	Maximum = 2.100E+0 at 54.9 Hz.
Overall or RMS	N/A	N/A



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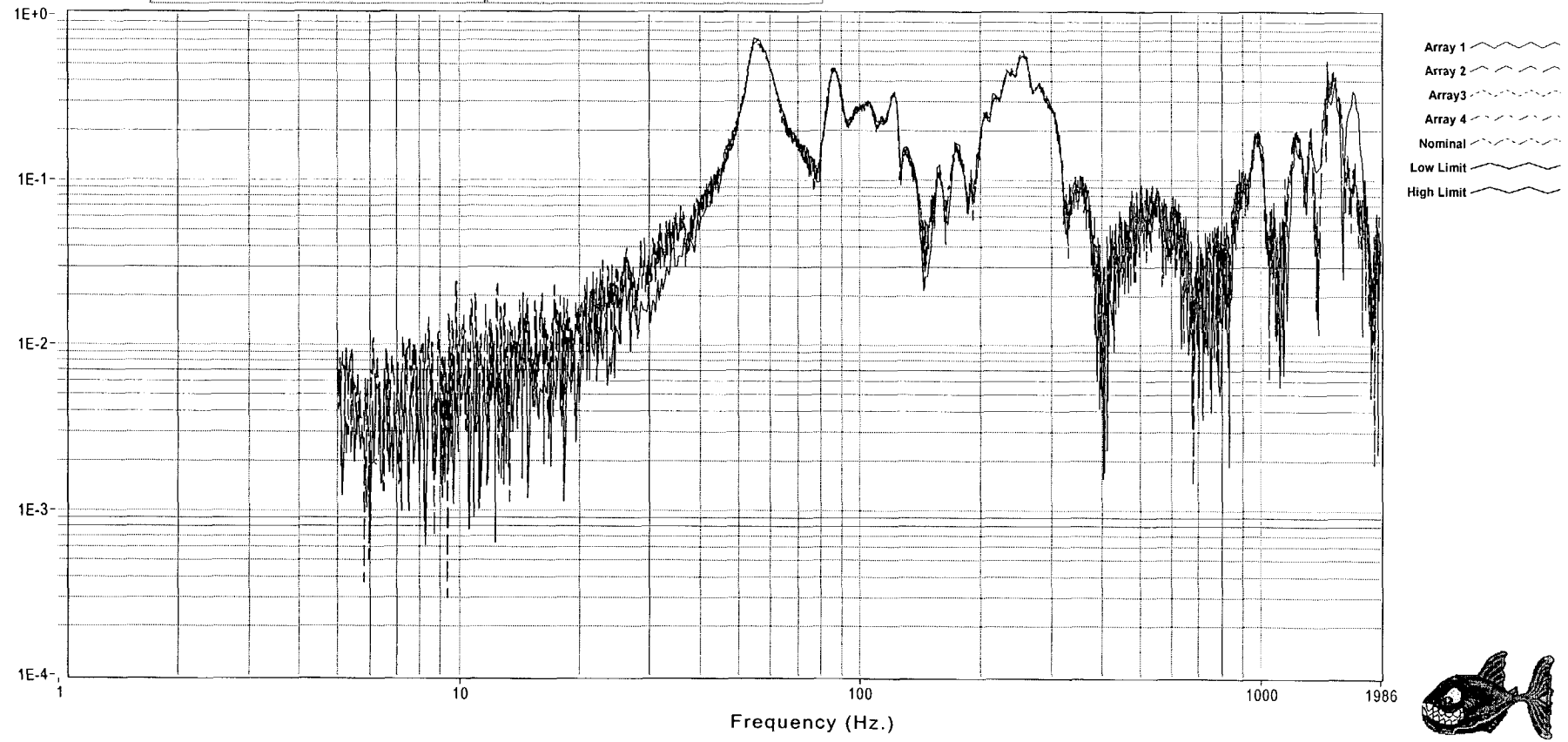
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A1Z: +Y PANEL UPPER Channel #35	A1Z: +Y PANEL UPPER Channel #35
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 3 SN=AD72	BOX 3 CH 3 SN=AD72
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.217E-1 at 54.8 Hz.	Maximum = 6.970E-1 at 55.6 Hz.
Overall or RMS	N/A	N/A



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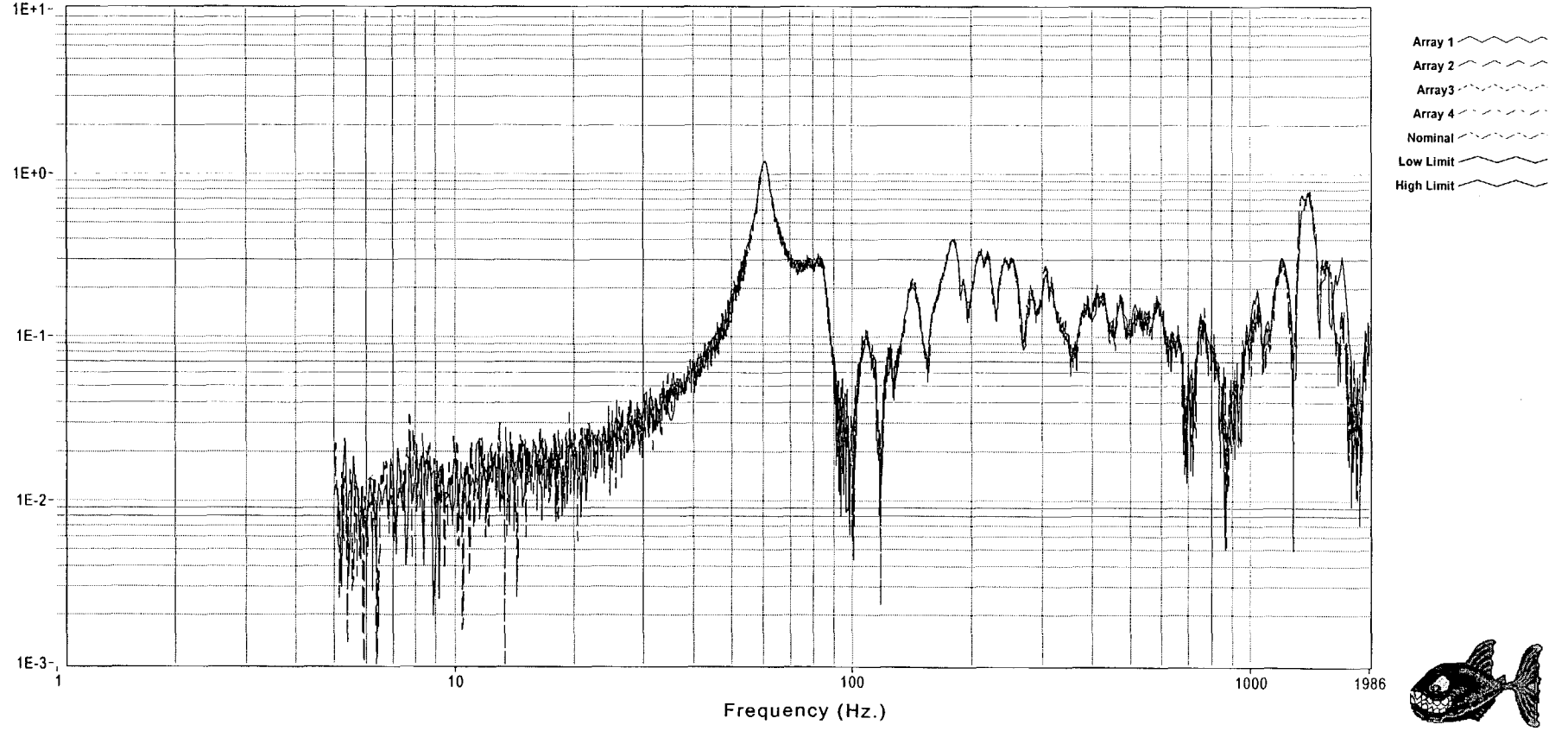
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A1RX: +Y PANEL UPPERChannel #36	A1RX: +Y PANEL UPPERChannel #36
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 4 SN=AF35	BOX 3 CH 4 SN=AF35
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.208E+0 at 60.6 Hz.	Maximum = 1.211E+0 at 60.4 Hz.
Overall or RMS	N/A	N/A



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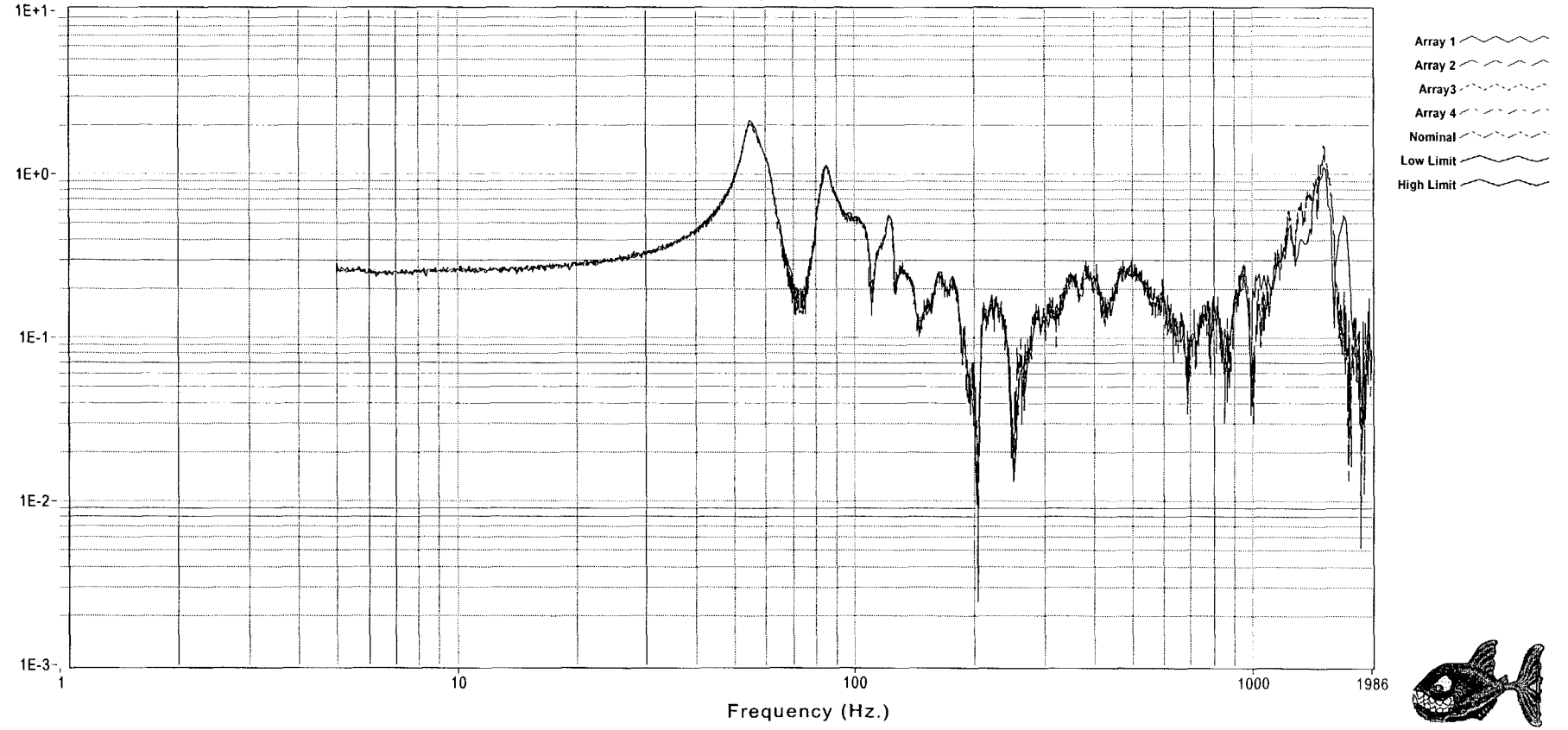
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A1RY: +Y PANEL UPPERChannel #37	A1RY: +Y PANEL UPPERChannel #37
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 5 SN=AB88	BOX 3 CH 5 SN=AB88
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.129E+0 at 54.8 Hz.	Maximum = 2.015E+0 at 54.9 Hz.
Overall or RMS	N/A	N/A



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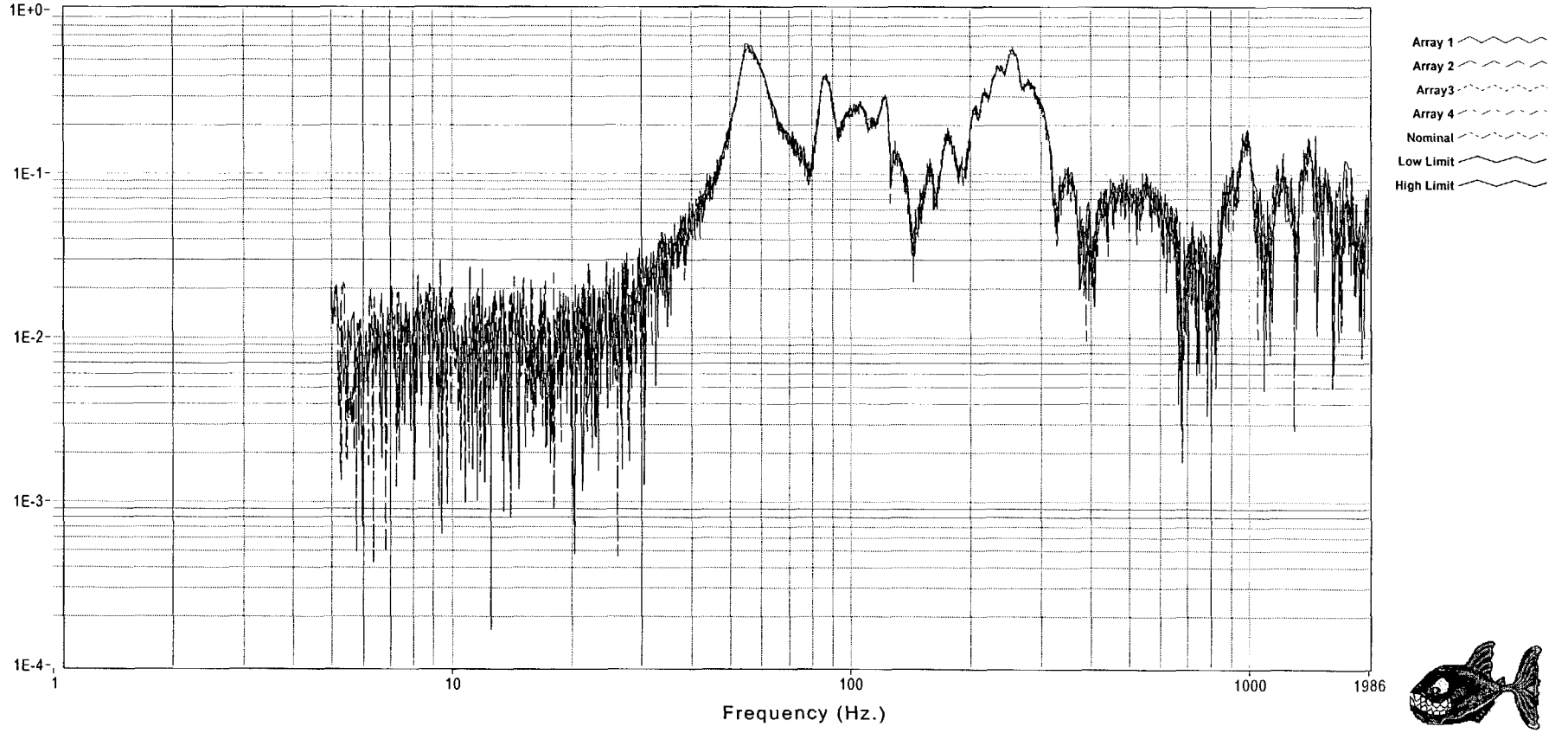
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A1RZ: +Y PANEL UPPERChannel #38	A1RZ: +Y PANEL UPPERChannel #38
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 6 SN=AG51	BOX 3 CH 6 SN=AG51
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.250E-1 at 54.8 Hz.	Maximum = 6.081E-1 at 55.0 Hz.
Overall or RMS	N/A	N/A



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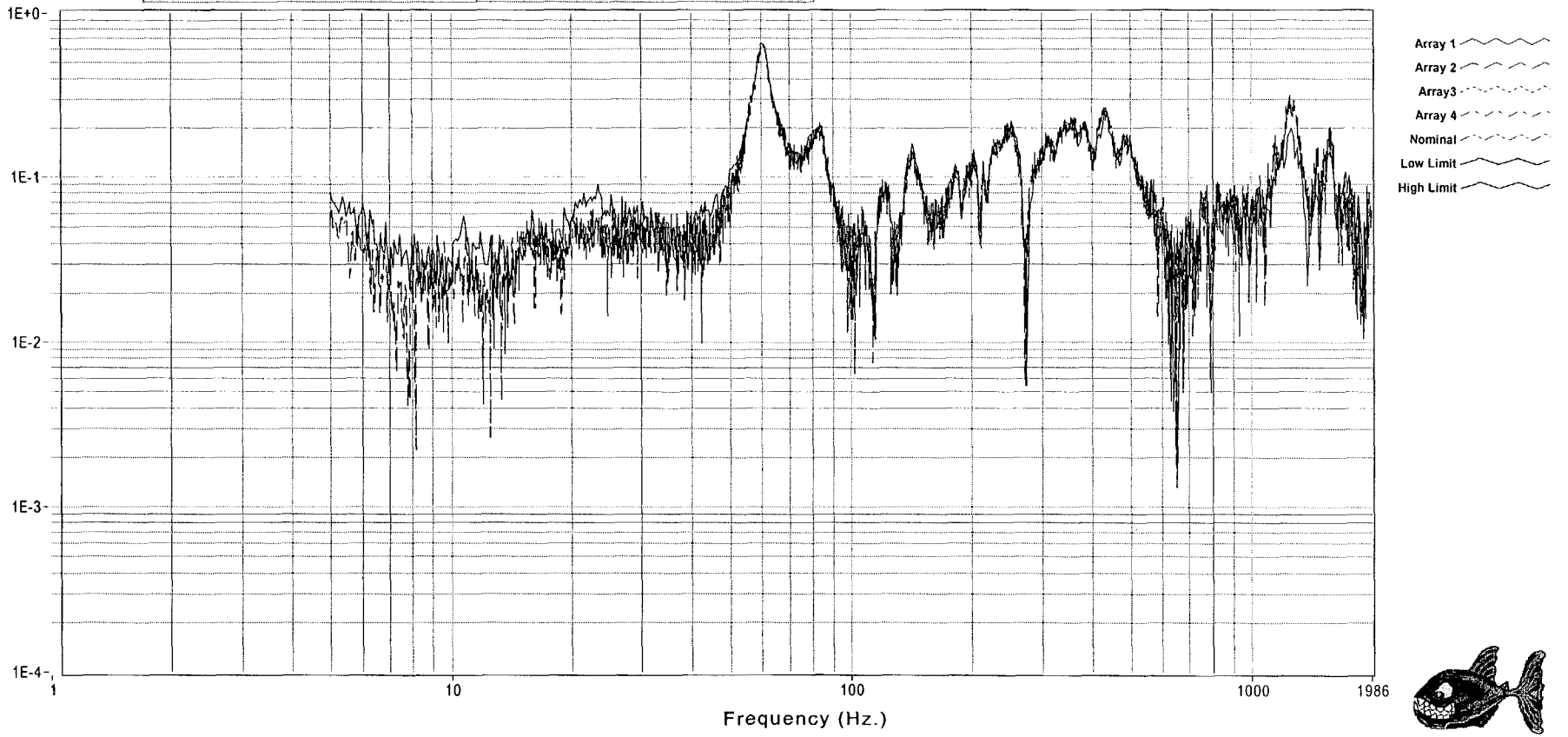
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A2X: +Y PANEL LOWER TEST Channel #39	A2X: +Y PANEL LOWER TEST Channel #39
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 7 SN=AK10	BOX 3 CH 7 SN=AK10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.538E-1 at 60.0 Hz.	Maximum = 6.420E-1 at 60.4 Hz.
Overall or RMS	N/A	N/A



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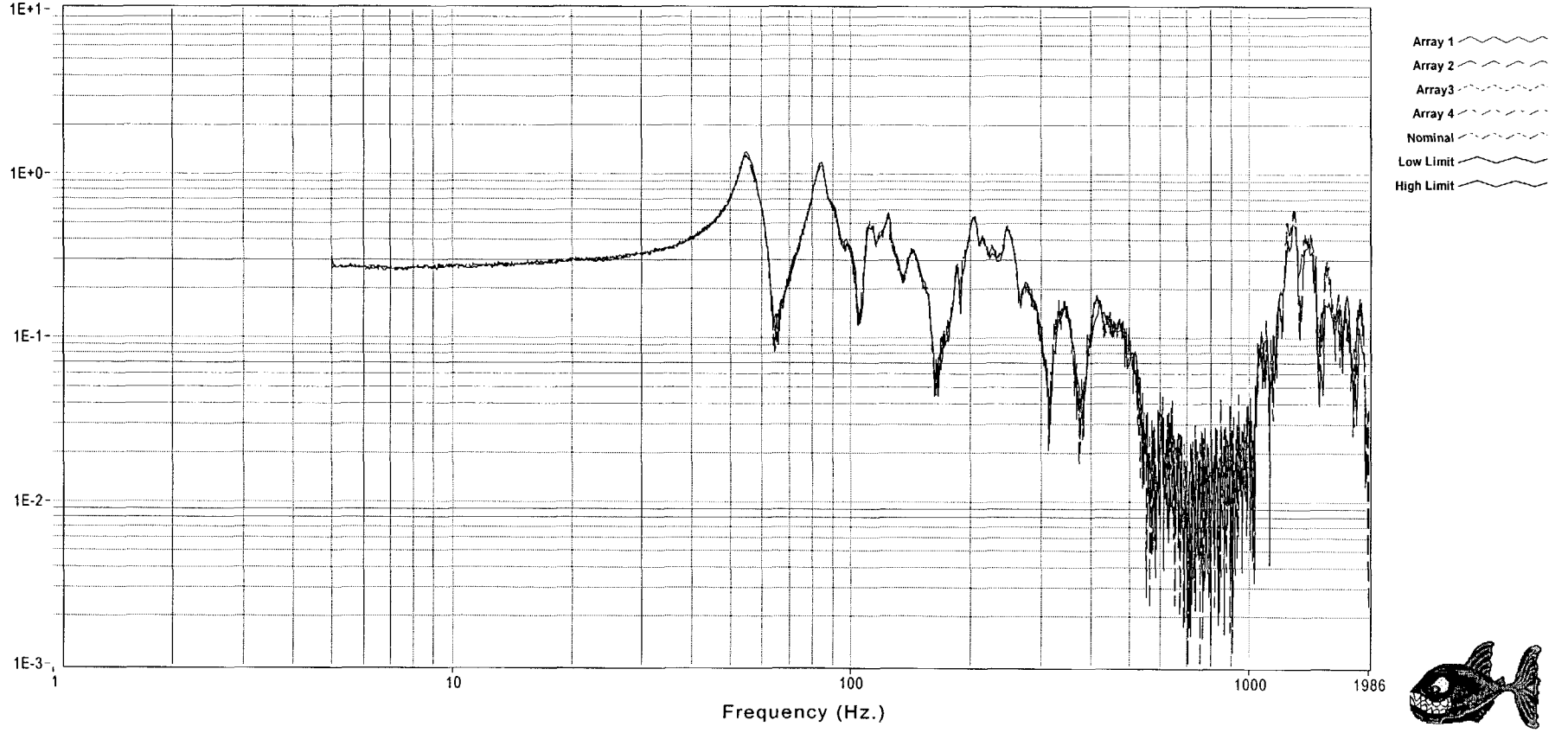
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A2Y: +Y PANEL LOWER CEN Channel #40	A2Y: +Y PANEL LOWER CEN Channel #40
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 8 SN=AB06	BOX 3 CH 8 SN=AB06
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.378E+0 at 54.8 Hz.	Maximum = 1.307E+0 at 54.5 Hz.
Overall or RMS	N/A	N/A



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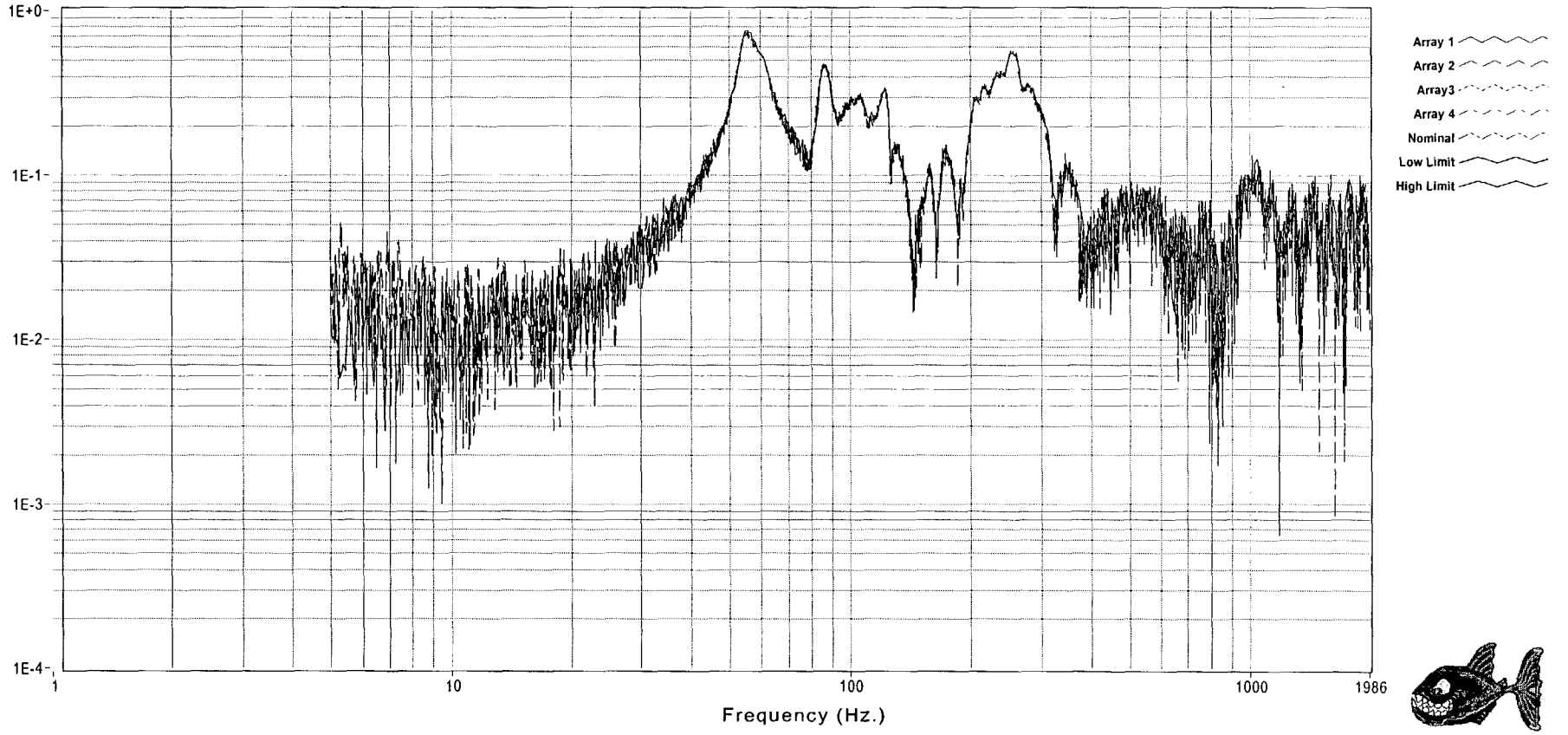
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A2Z: +Y PANEL LOWER Channel #41	A2Z: +Y PANEL LOWER Channel #41
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 9 SN=AF28	BOX 3 CH 9 SN=AF28
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.623E-1 at 55.4 Hz.	Maximum = 7.411E-1 at 55.6 Hz.
Overall or RMS	N/A	N/A



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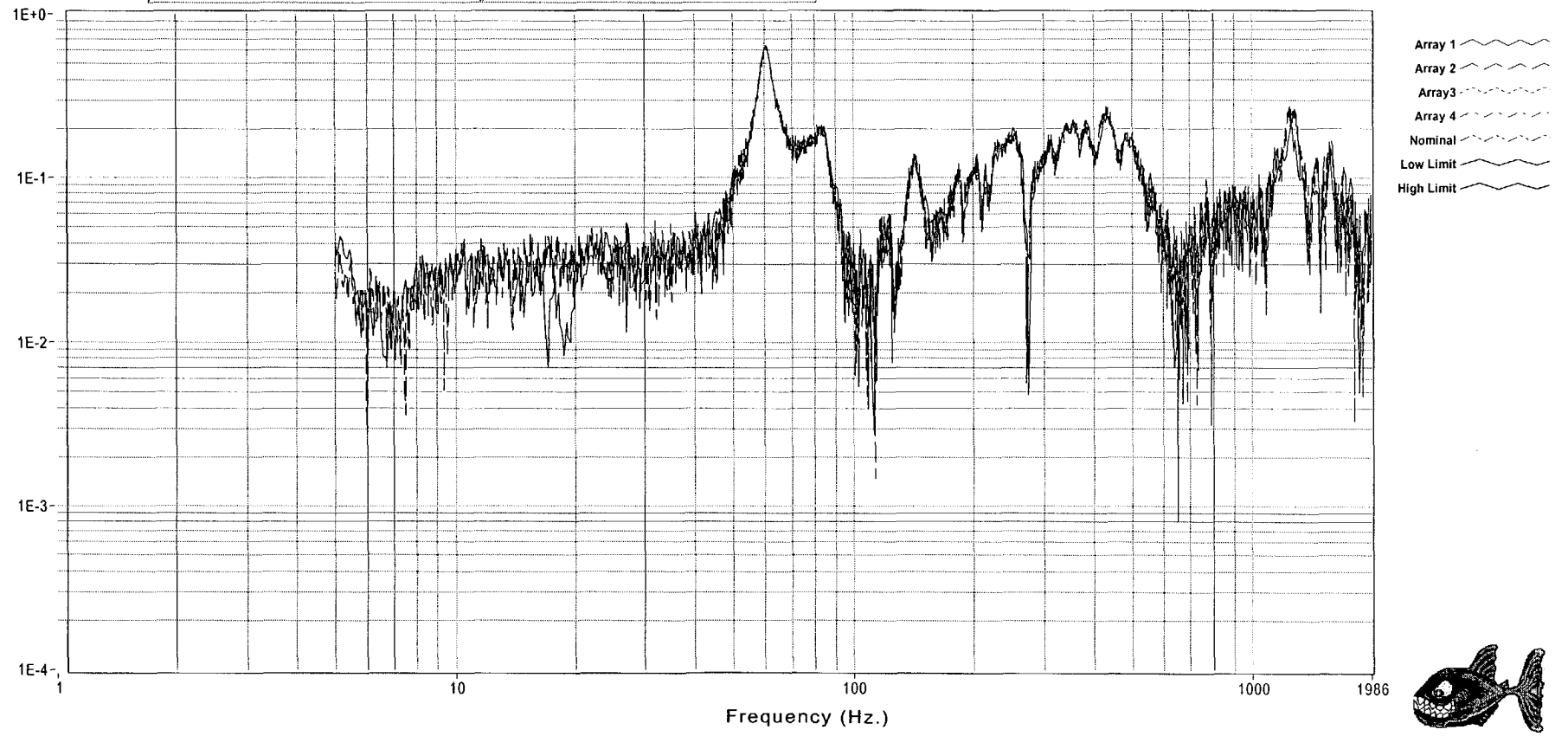
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A2RX: +Y PANEL LOWER CTE Channel #42	A2RX: +Y PANEL LOWER CTE Channel #42
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 10 SN=AJ30	BOX 3 CH 10 SN=AJ30
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.222E-1 at 60.0 Hz.	Maximum = 6.406E-1 at 60.4 Hz.
Overall or RMS	N/A	N/A



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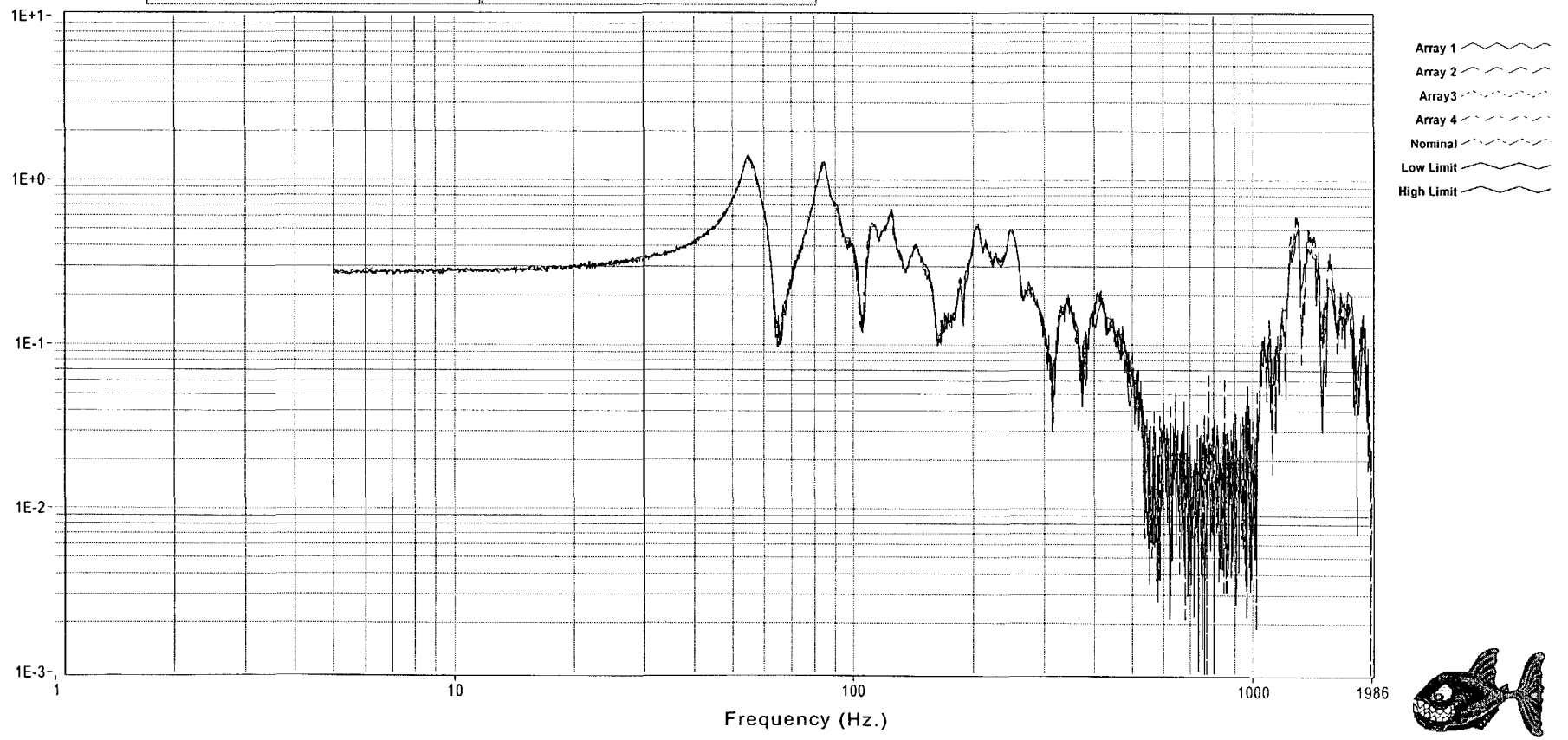
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A2RY: +Y PANEL LOWER CTE Chel #43	A2RY: +Y PANEL LOWER CTE Chel #43
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 11 SN=AE60	BOX 3 CH 11 SN=AE60
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.427E+0 at 54.8 Hz.	Maximum = 1.376E+0 at 54.5 Hz.
Overall or RMS	N/A	N/A



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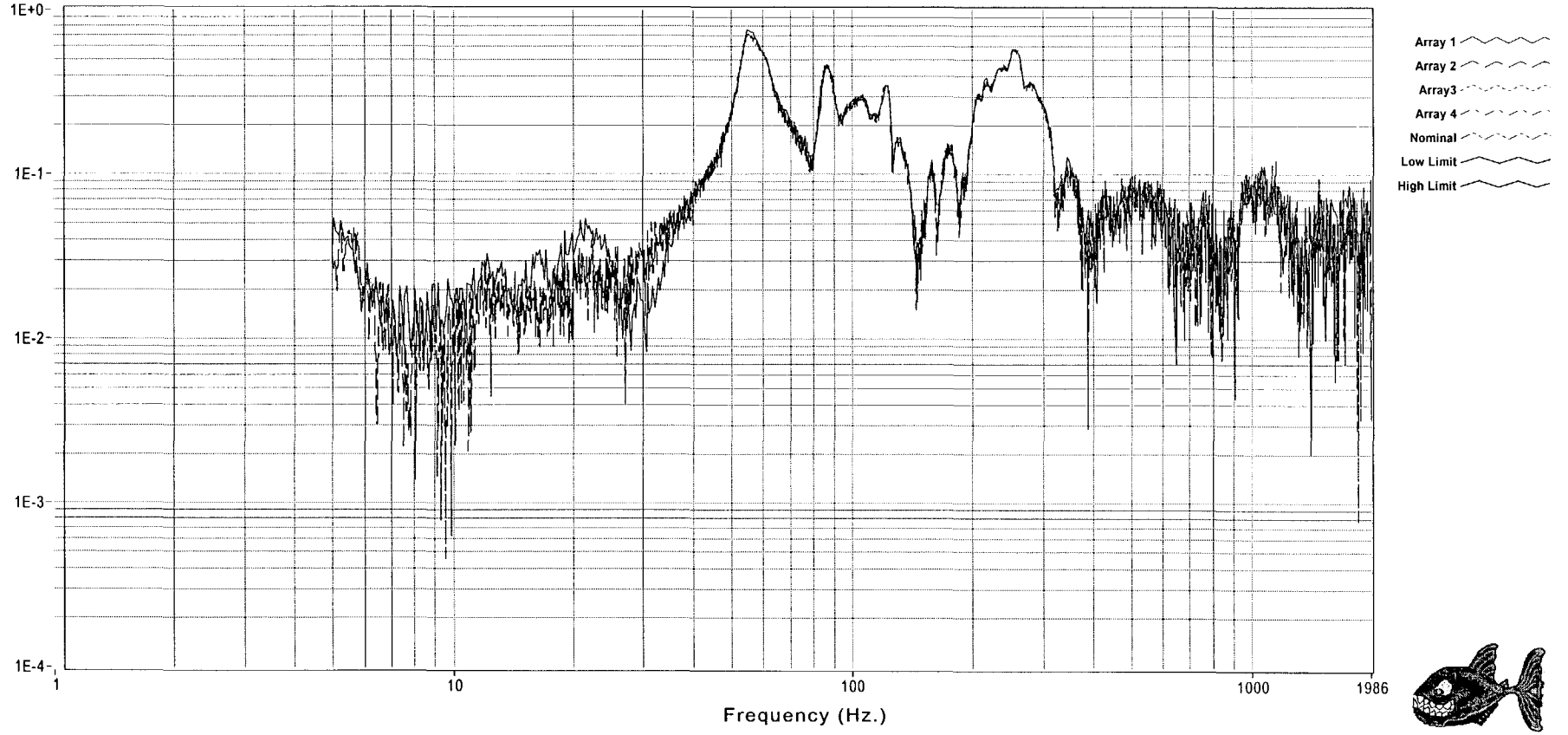
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A2RZ: +Y PANEL LOWER CTE Channel #44	A2RZ: +Y PANEL LOWER CTE Channel #44
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 12 SN=AG01	BOX 3 CH 12 SN=AG01
Analysis Description	*Log Analysis Sweep dF= 0.01 x* Frequency; Proportional Bandwidth	*Log Analysis Sweep dF= 0.00 x* Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.590E-1 at 54.8 Hz.	Maximum = 7.317E-1 at 55.6 Hz.
Overall or RMS	N/A	N/A



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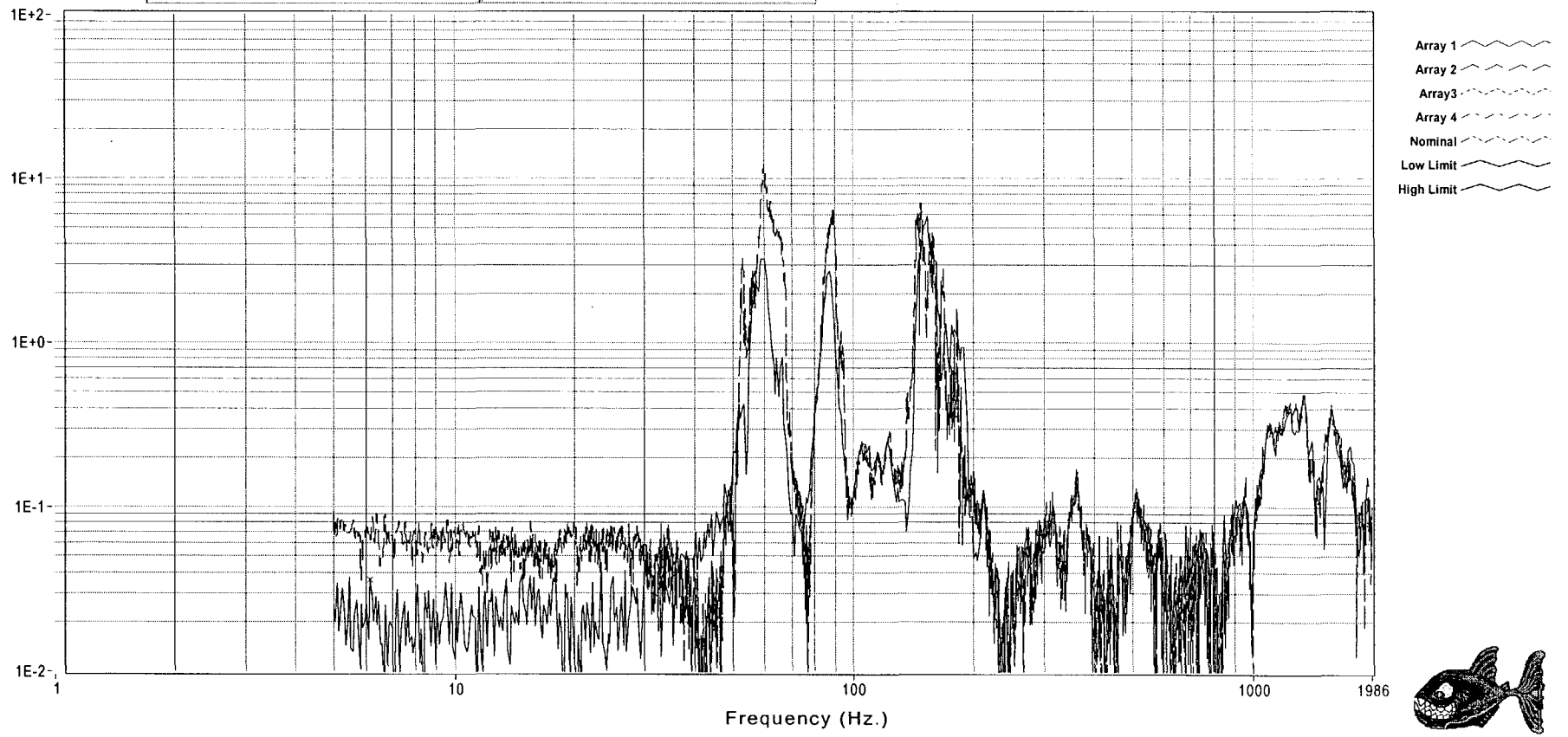
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A3X: +X PANEL UPPER CCChannel #45	A3X: +X PANEL UPPER CCChannel #45
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 13 SN=BC39
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.930E+0 at 152.8 Hz.	Maximum = 1.216E+1 at 59.9 Hz.
Overall or RMS	N/A	N/A



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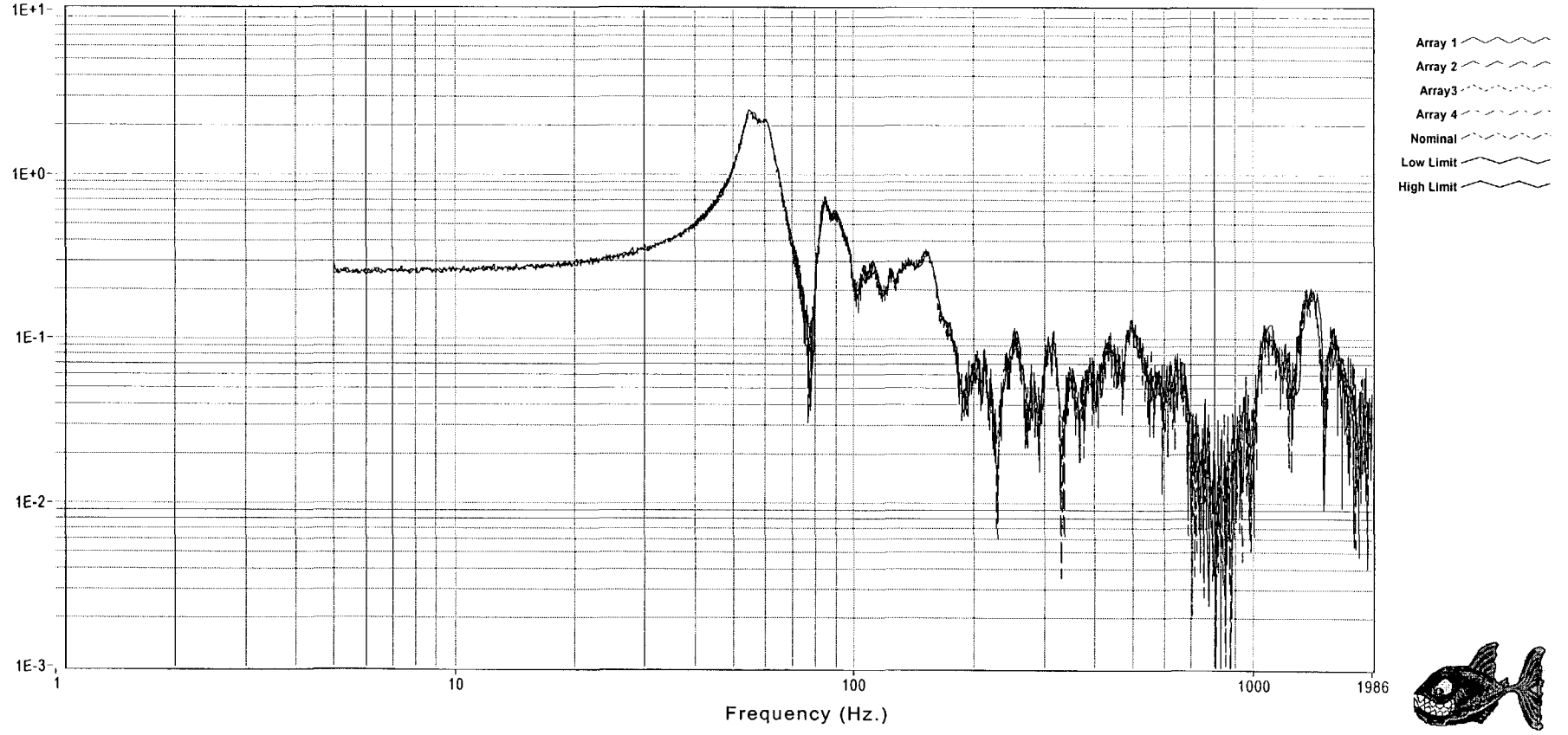
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A3Y: +X PANEL UPPER CCChannel #46	A3Y: +X PANEL UPPER CCChannel #46
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 14 SN=AG02	BOX 3 CH 14 SN=AG02
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.492E+0 at 54.8 Hz.	Maximum = 2.394E+0 at 55.6 Hz.
Overall or RMS	N/A	N/A



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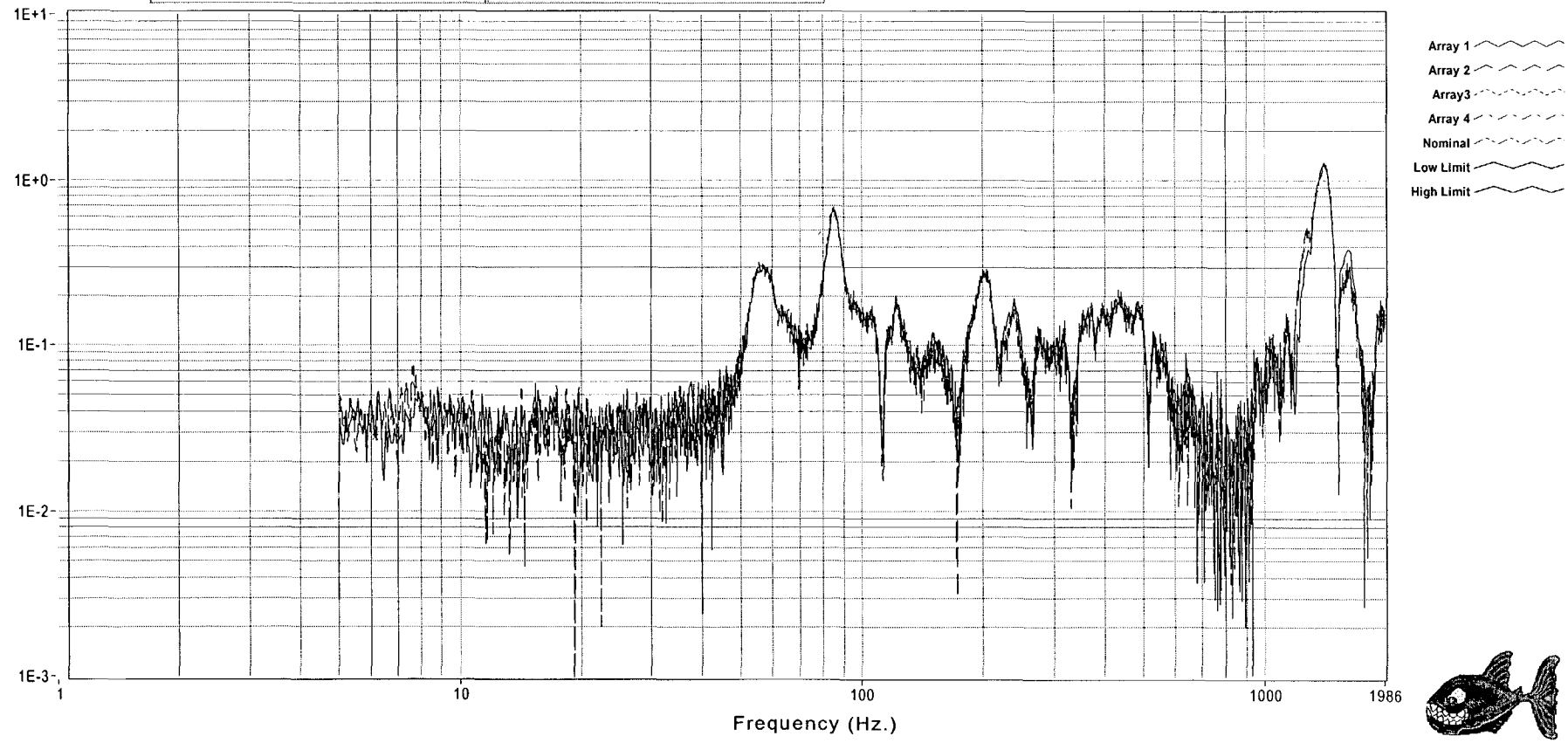
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A3Z: +X PANEL UPPER CCChannel #47	A3Z: +X PANEL UPPER CCChannel #47
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 15 SN=BC12	BOX 3 CH 15 SN=BC12
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.279E+0 at 1405.0 Hz.	Maximum = 1.272E+0 at 1414.0 Hz.
Overall or RMS	N/A	N/A



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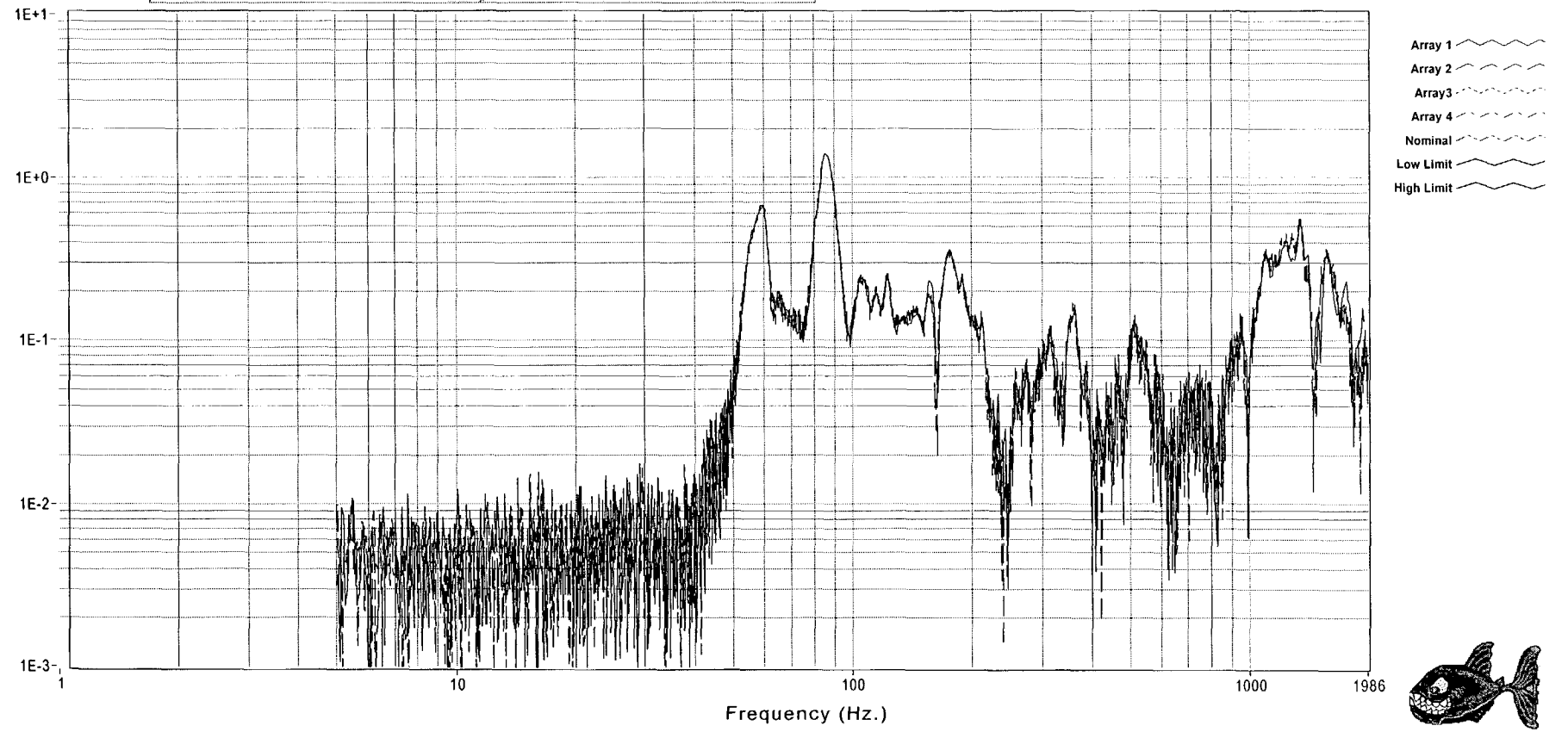
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A3RX: +X PANEL UPPER CGU Channel #48	A3RX: +X PANEL UPPER CGU Channel #48
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 3 CH 16 SN=AE43	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.411E+0 at 85.8 Hz.	Maximum = 1.410E+0 at 85.3 Hz.
Overall or RMS	N/A	N/A



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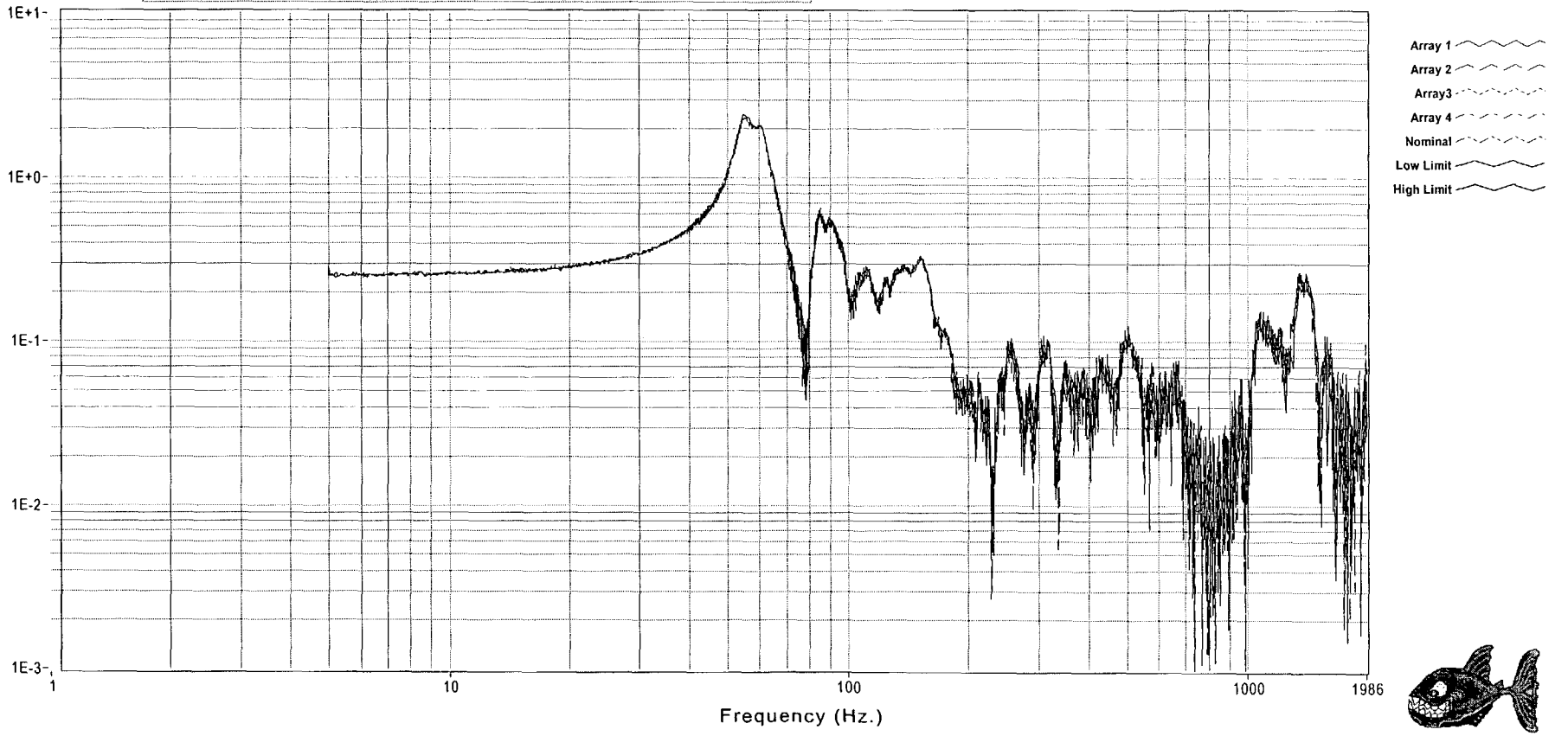
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A3RY: +X PANEL UPPER CGU Channel #49	A3RY: +X PANEL UPPER CGU Channel #49
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 1 SN=AF57	BOX 4 CH 1 SN=AF57
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.431E+0 at 54.8 Hz.	Maximum = 2.334E+0 at 55.6 Hz.
Overall or RMS	N/A	N/A



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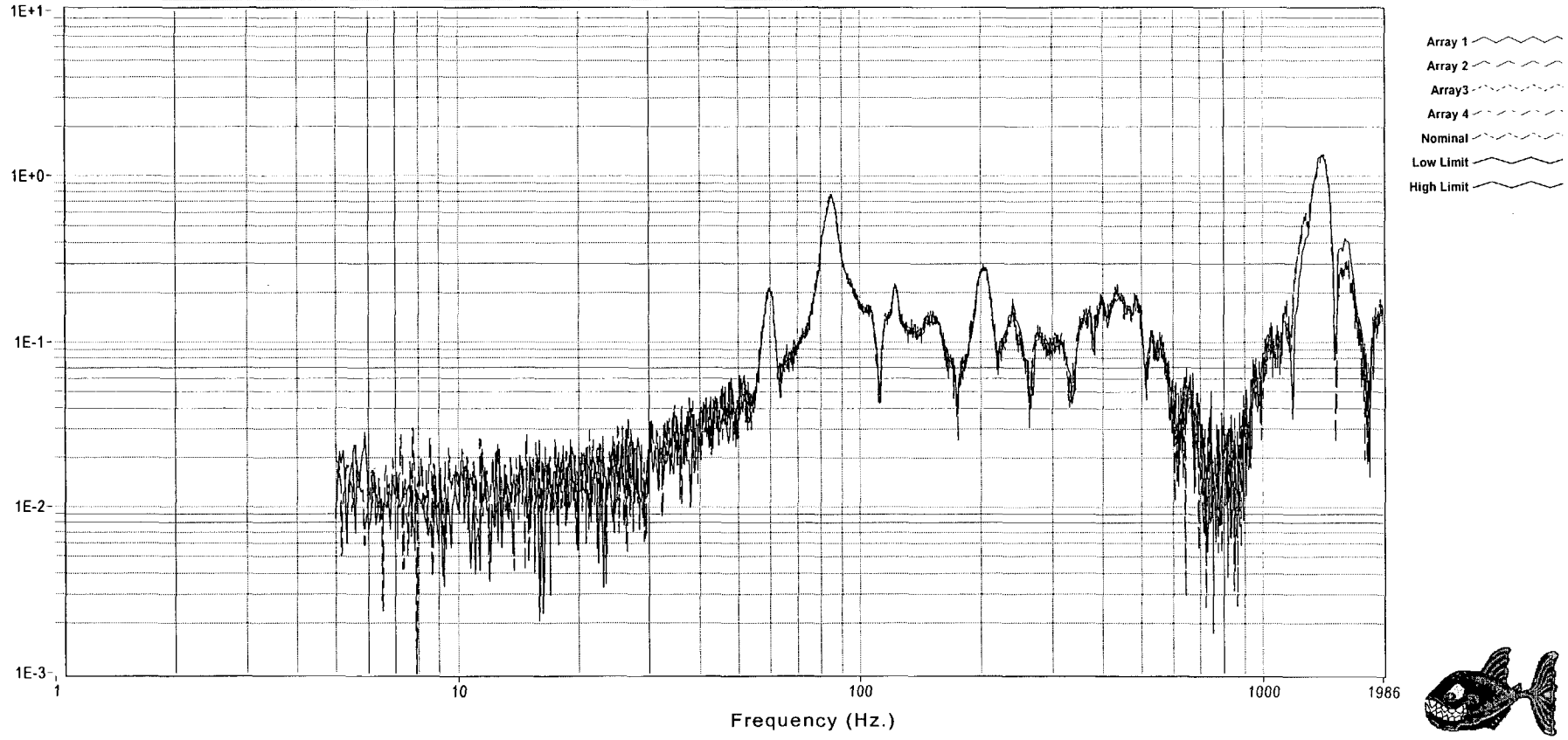
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A3RZ: +X PANEL UPPER CCAhannel #50	A3RZ: +X PANEL UPPER CCAhannel #50
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 2 SN=AB65	BOX 4 CH 2 SN=AB65
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.364E+0 at 1405.0 Hz.	Maximum = 1.356E+0 at 1414.0 Hz.
Overall or RMS	N/A	N/A



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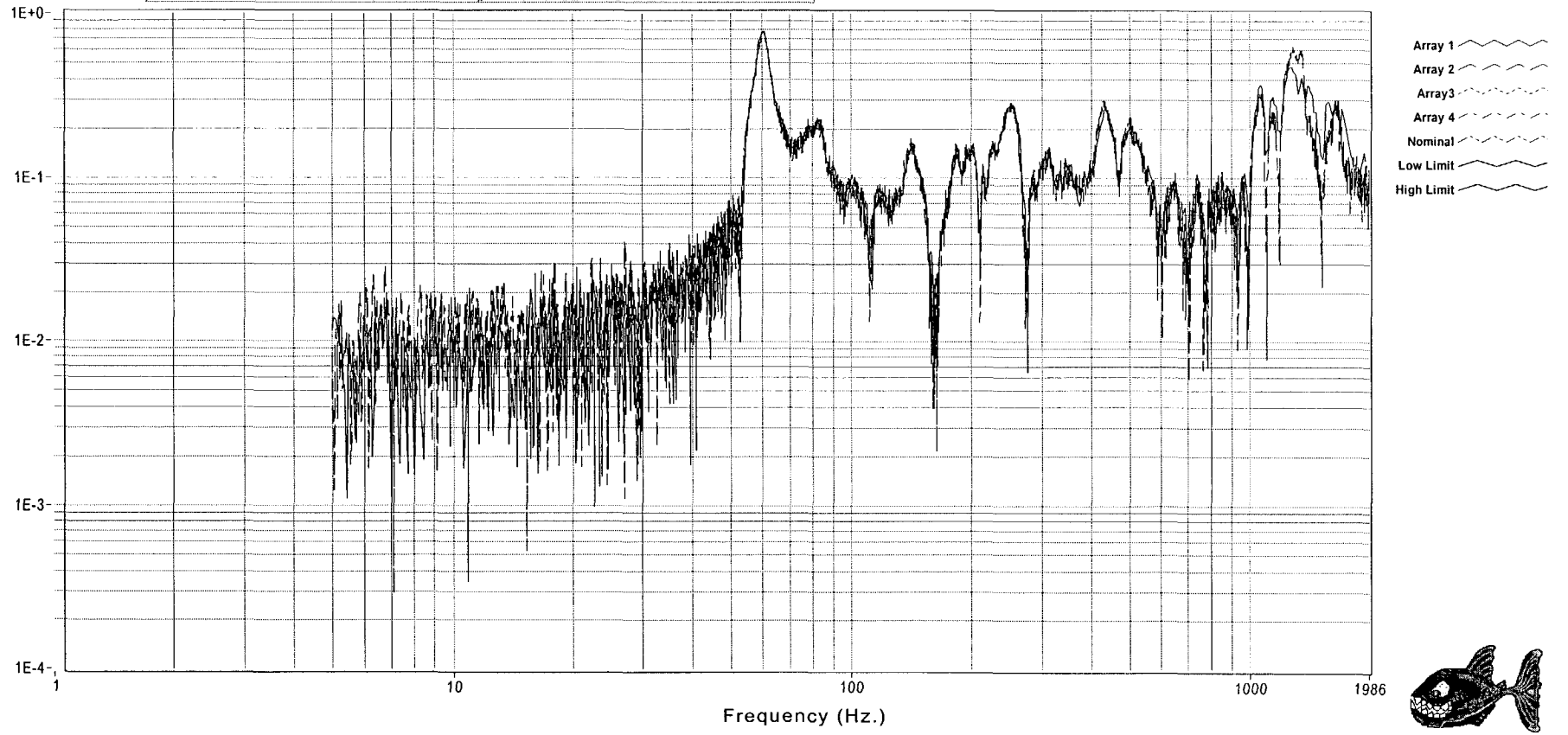
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A4X: +Y PANEL MID-CMUChannel #51	A4X: +Y PANEL MID-CMUChannel #51
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 3 SN=AH55	BOX 4 CH 3 SN=AH55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.832E-1 at 60.0 Hz.	Maximum = 7.726E-1 at 60.2 Hz.
Overall or RMS	N/A	N/A



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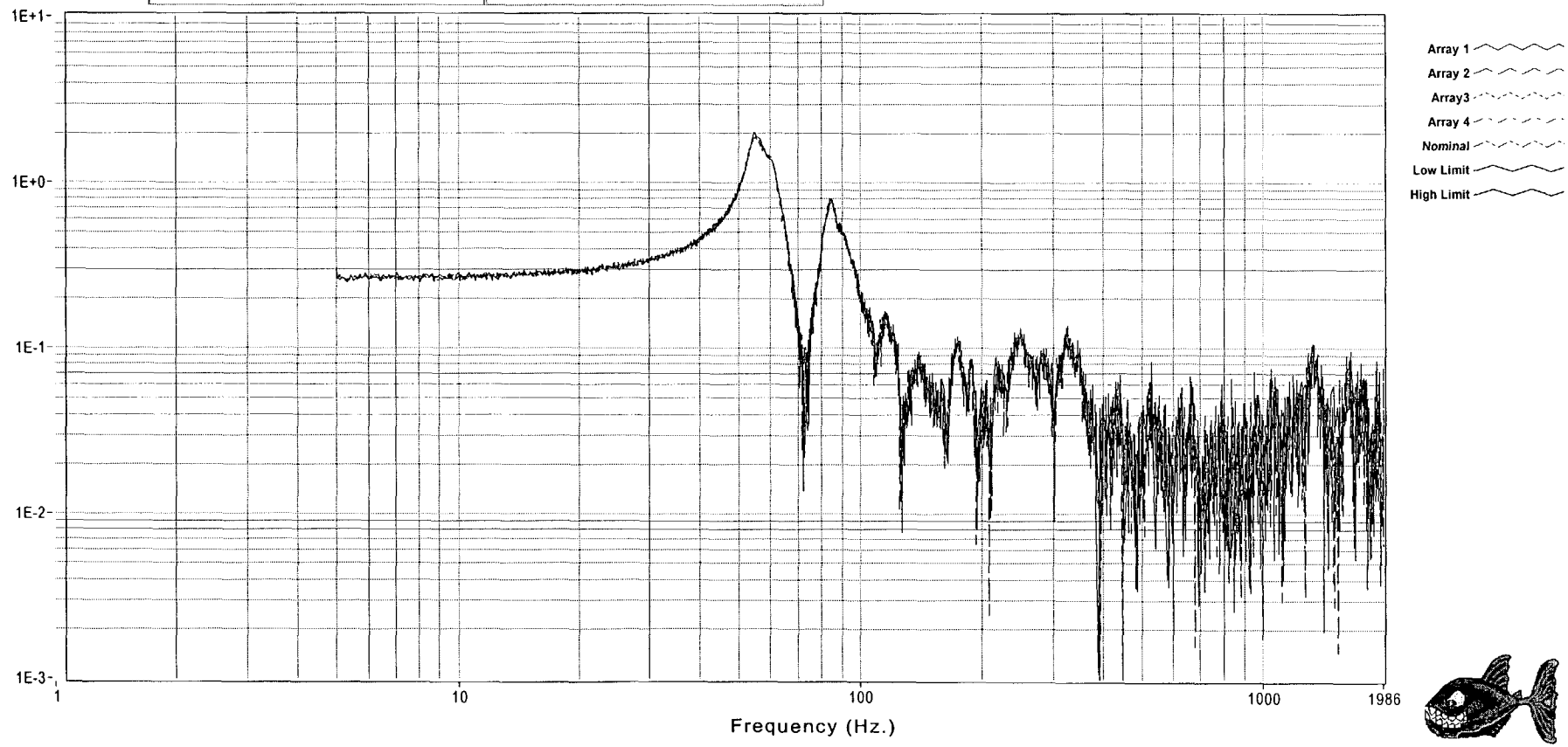
	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A4Y: +Y PANEL MID-CMUChannel #52	A4Y: +Y PANEL MID-CMUChannel #52
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 4 SN=AJ95	BOX 4 CH 4 SN=AJ95
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.010E+0 at 54.8 Hz.	Maximum = 1.891E+0 at 55.0 Hz.
Overall or RMS	N/A	N/A



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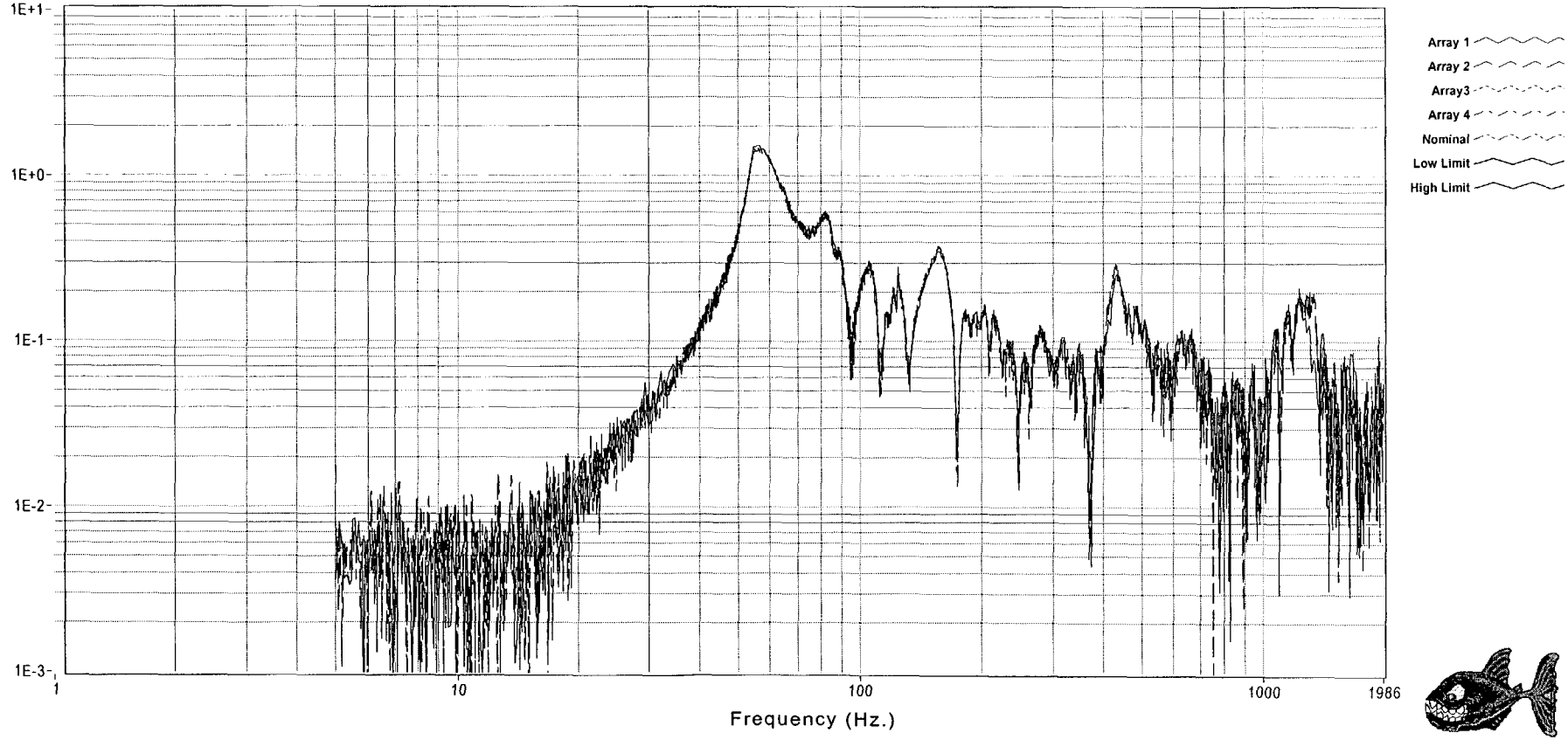
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A4Z: +Y PANEL MID-CMUChannel #53	A4Z: +Y PANEL MID-CMUChannel #53
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 5 SN=AB55	BOX 4 CH 5 SN=AB55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.532E+0 at 56.5 Hz.	Maximum = 1.483E+0 at 55.6 Hz.
Overall or RMS	N/A	N/A



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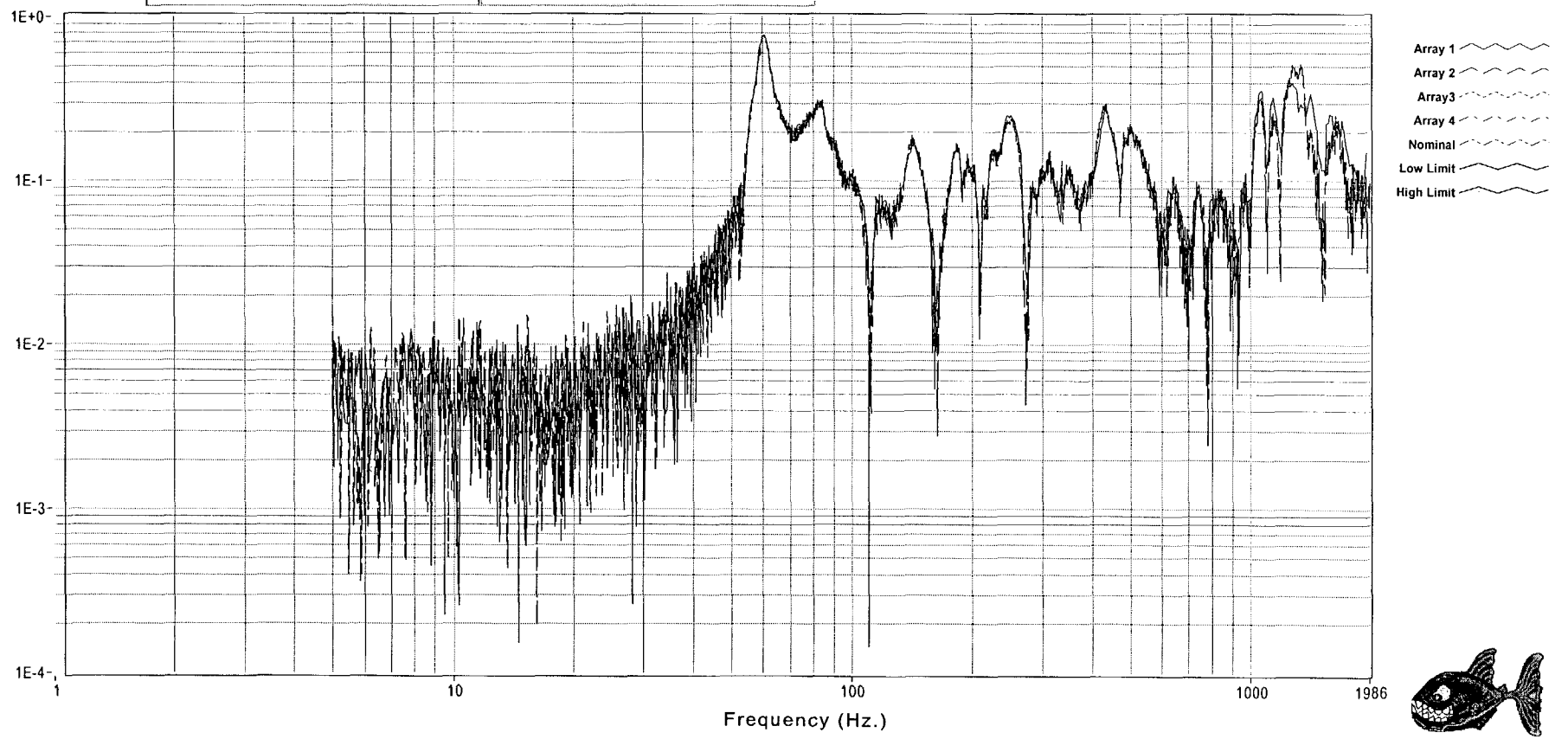
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A4RX: +Y PANEL MID-CMOChannel #54	A4RX: +Y PANEL MID-CMOChannel #54
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 6 SN=AF10	BOX 4 CH 6 SN=AF10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.817E-1 at 60.6 Hz.	Maximum = 7.735E-1 at 60.3 Hz.
Overall or RMS	N/A	N/A



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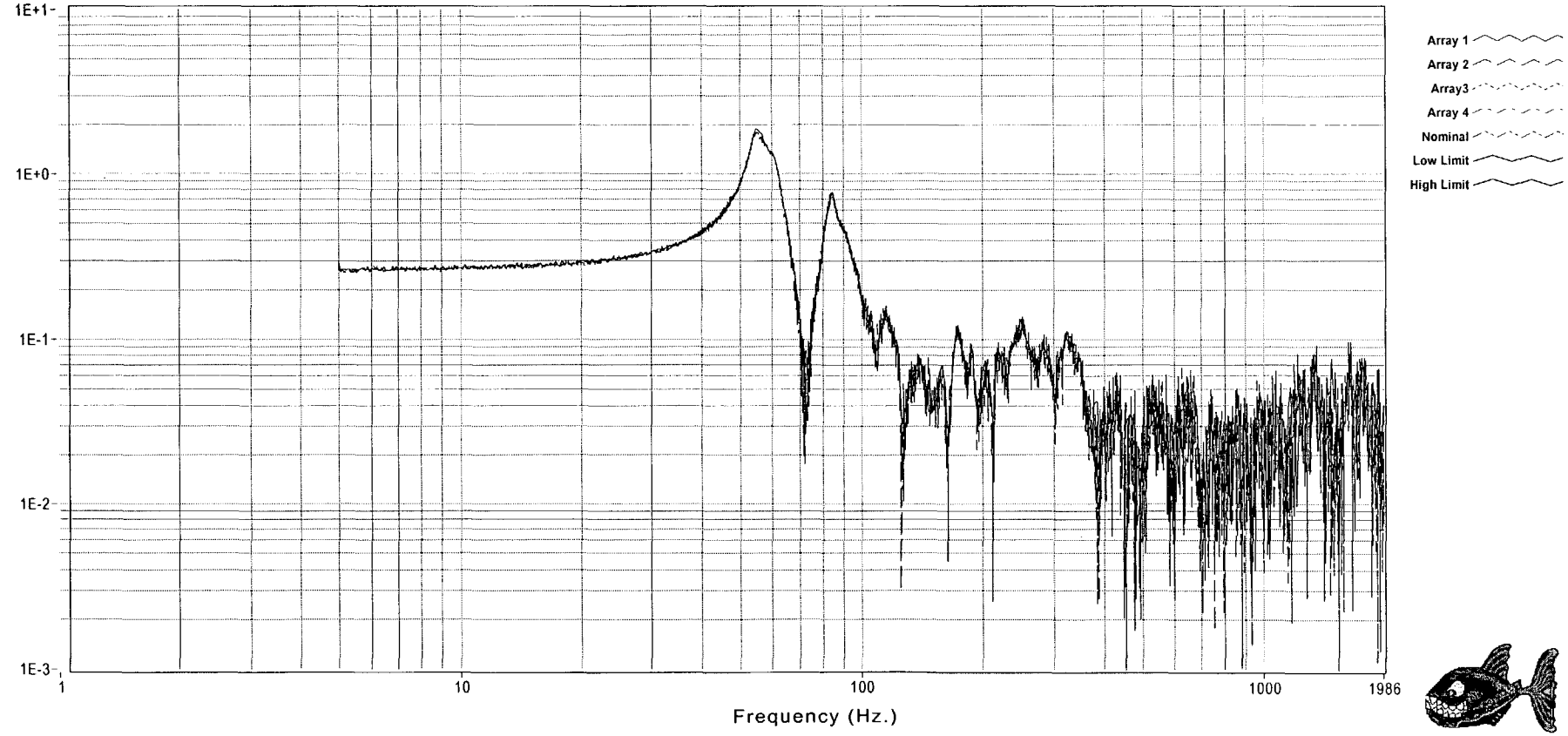
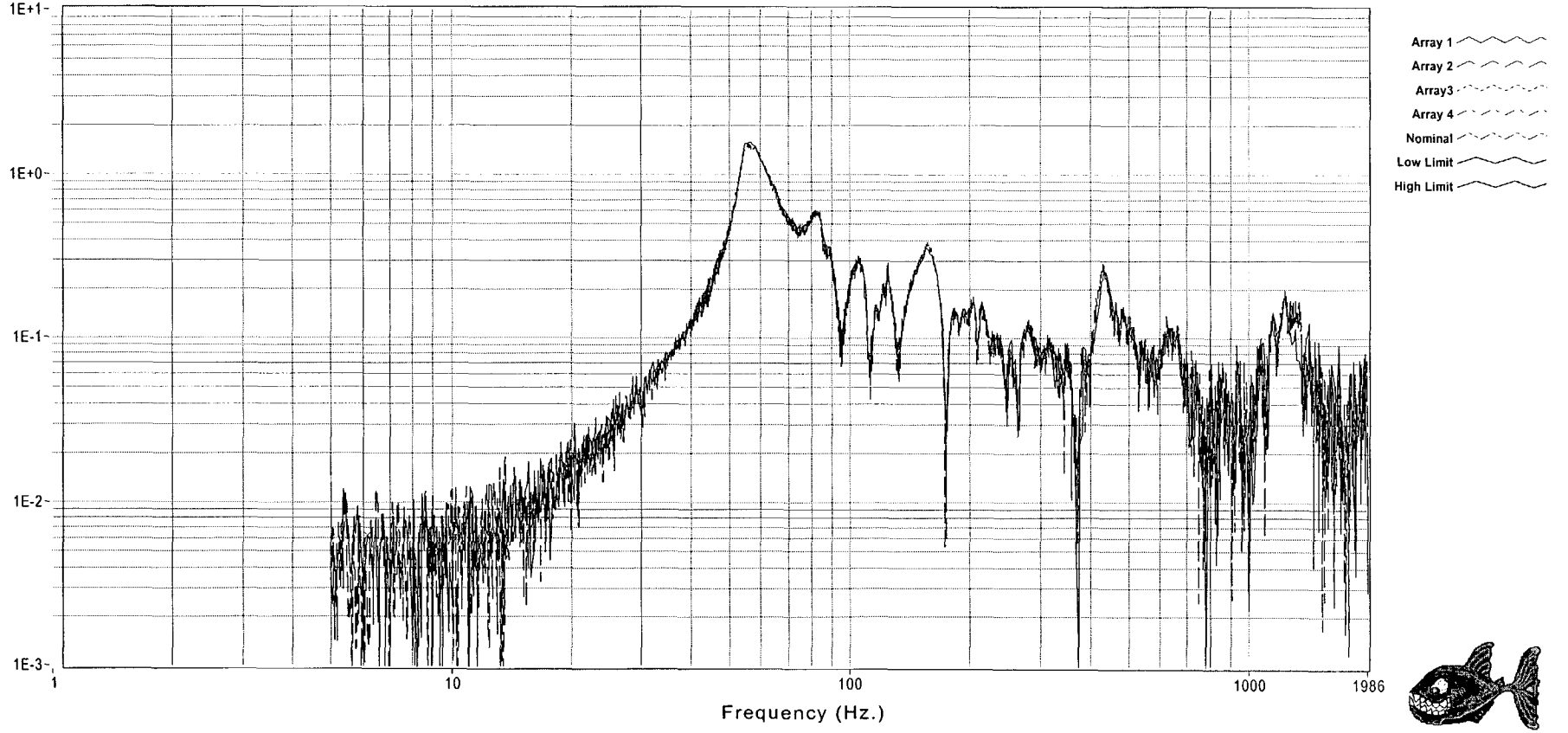
	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	A4RY: +Y PANEL MID-CMCChannel #55	A4RY: +Y PANEL MID-CMCChannel #55
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 7 SN=AF56	BOX 4 CH 7 SN=AF56
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.886E+0 at 54.8 Hz.	Maximum = 1.799E+0 at 54.9 Hz.
Overall or RMS	N/A	N/A



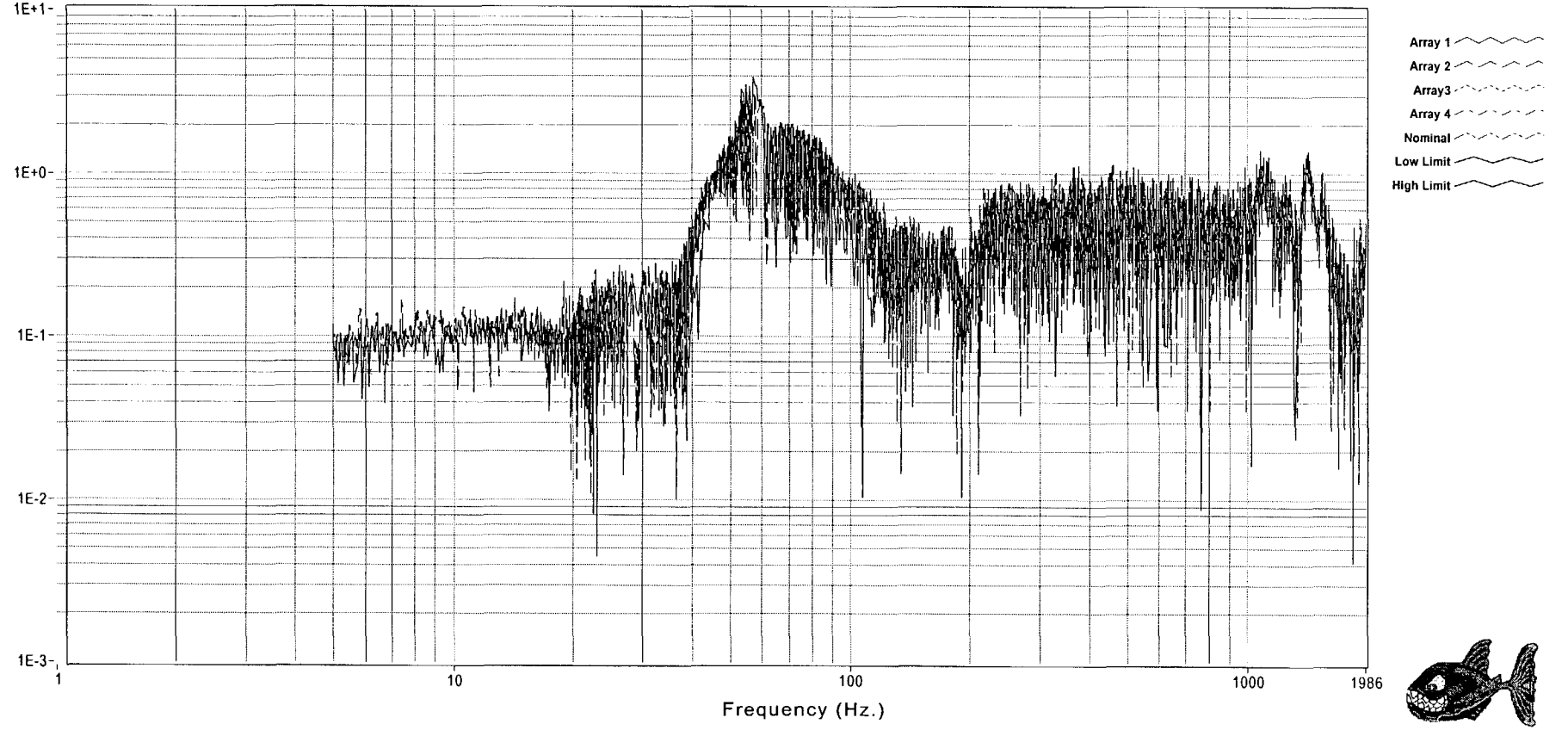
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062410	sine_Sine062415
	A4RZ: +Y PANEL MID-CMCChannel #56	A4RZ: +Y PANEL MID-CMCChannel #56
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 8 SN=AD53	BOX 4 CH 8 SN=AD53
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.587E+0 at 56.5 Hz.	Maximum = 1.541E+0 at 55.6 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062415
	F1: FLY AWAY Channel #57	F1: FLY AWAY Channel #57
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS .25
Test File Number	062410	062415
Test Date/Time	24-Jun-2002 17:46:12	24-Jun-2002 21:53:12
Channel Description	BOX 4 CH 9 SN=BF27	BOX 4 CH 9 SN=BF27
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.914E+0 at 57.0 Hz.	Maximum = 3.255E+0 at 54.8 Hz.
Overall or RMS	N/A	N/A



LOCKHEED MARTIN MISSILES & SPACE

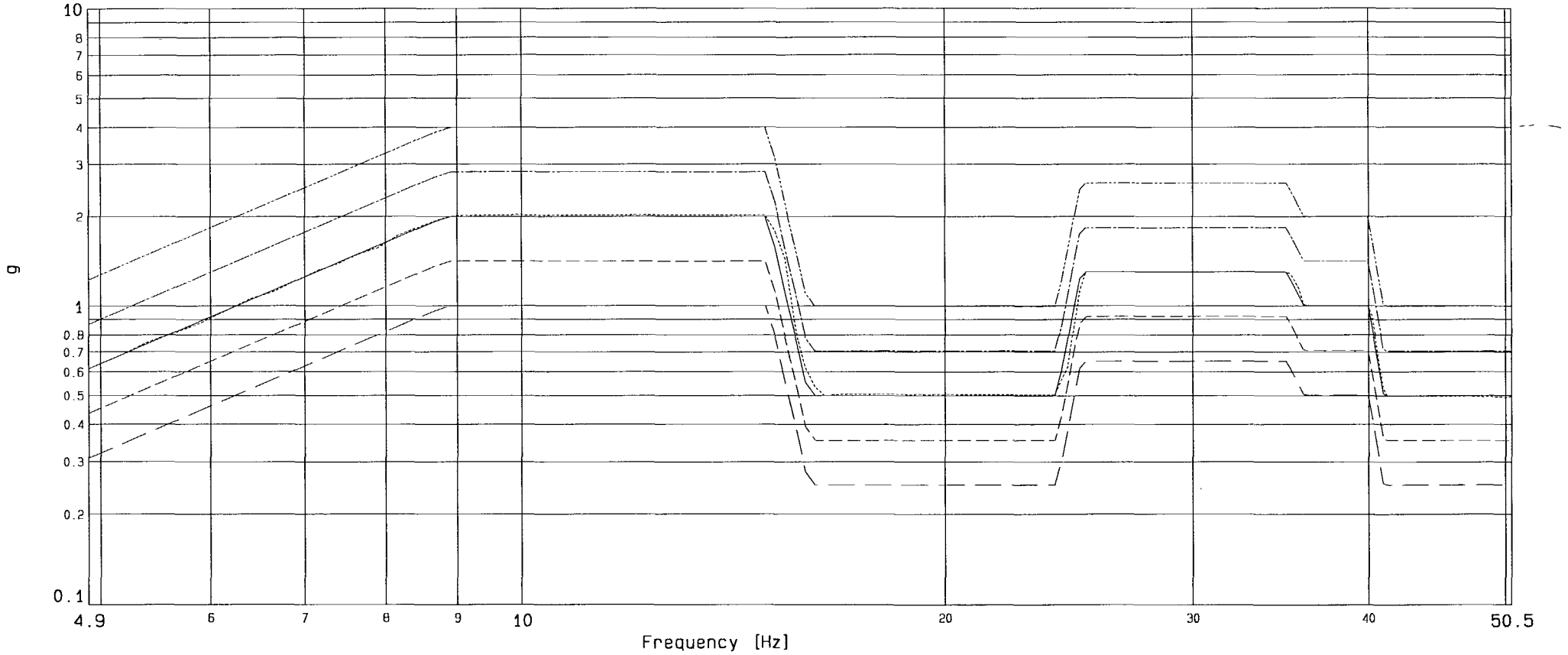
Project : hirdls
Test : Shaped_SINE
Run : 7 062416

Date : 24-06-02
Time : 23:35:06
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250549 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Y SHAPE SINE

date 06-24-02

4.90 to 50.50 hz

062416

LOCKHEED MARTIN MISSILES & SPACE

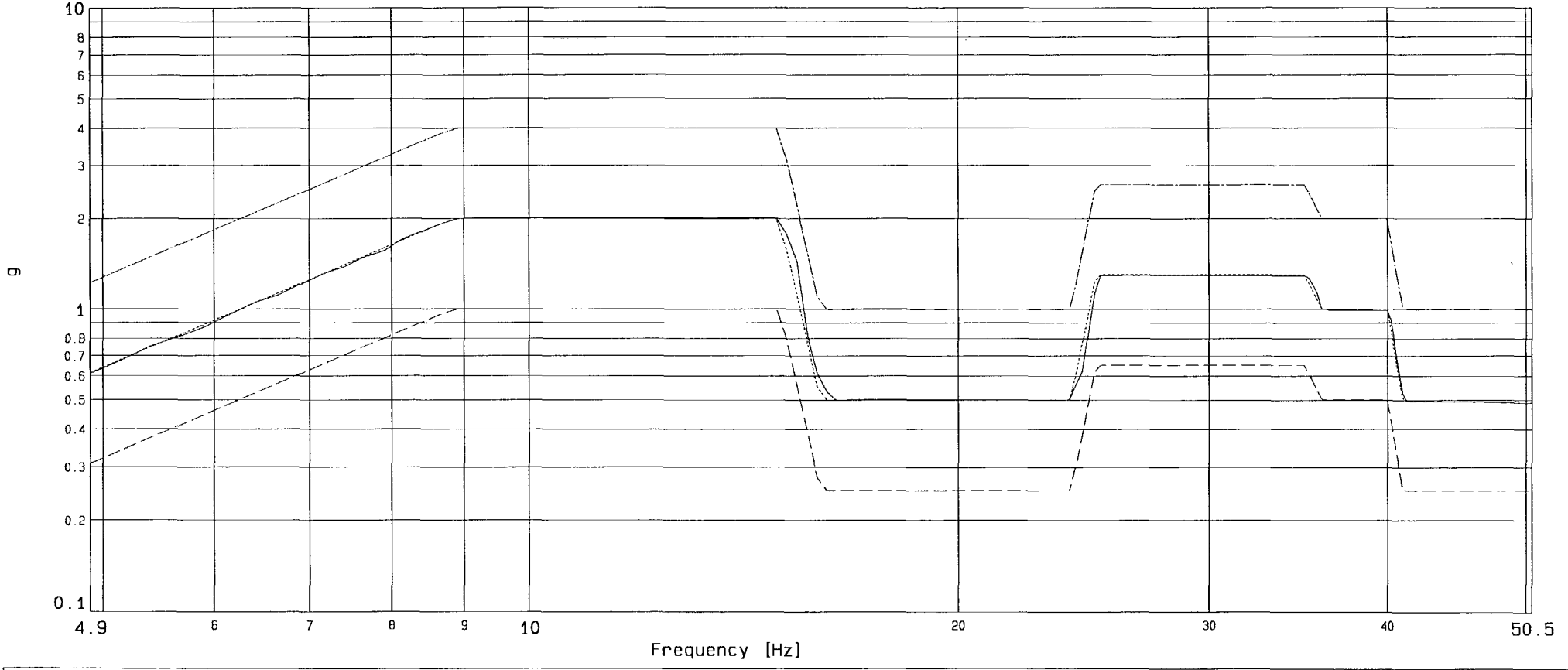
Project : hirdls
Test : Shaped_SINE
Run : 7 062416

Date : 24-06-02
Time : 23:35:06
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250549 Hz

Maximum value : 2.02 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y SHAPE SINE

date 06-24-02

4.90 to 50.50 hz

062416

LOCKHEED MARTIN MISSILES & SPACE

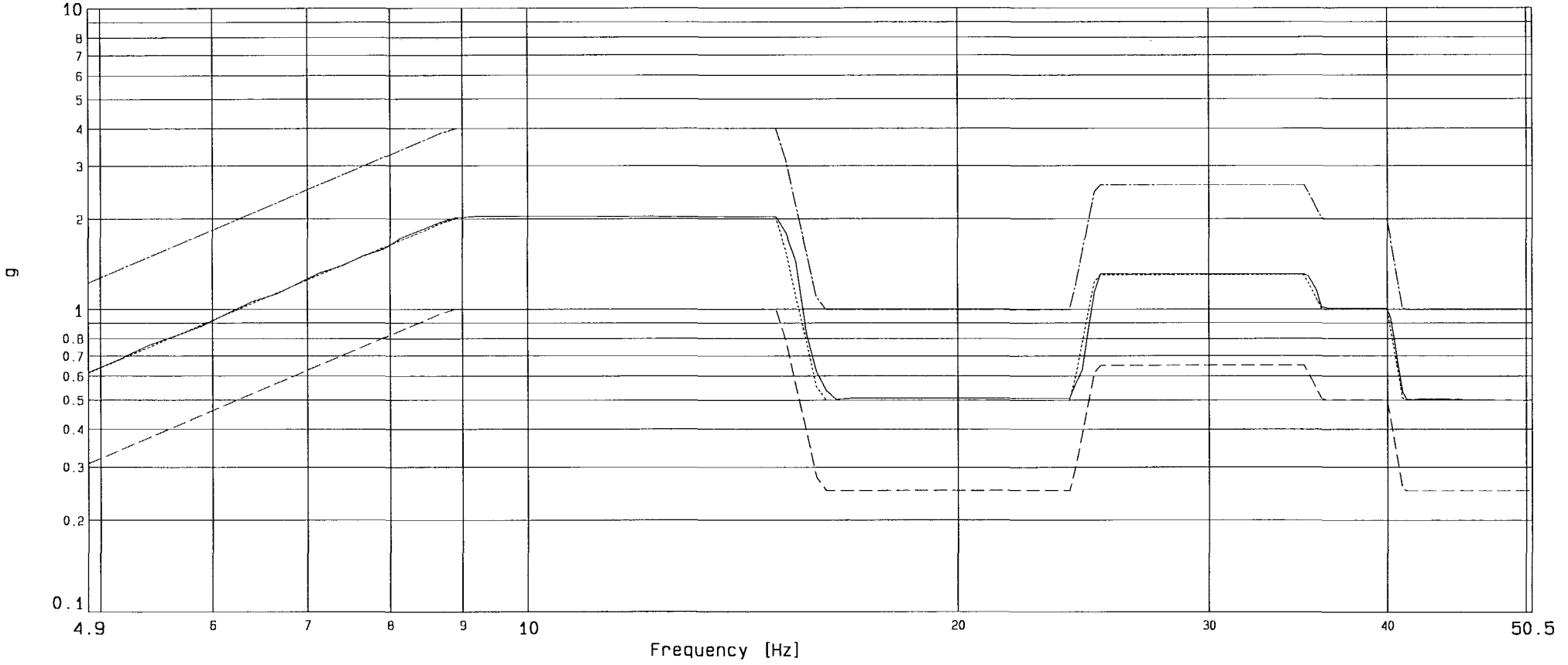
Project : hirdls
Test : Shaped_SINE
Run : 7 062416

Date : 24-06-02
Time : 23: 35: 06
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250549 Hz

Maximum value : 2.04 g

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y SHAPE SINE

date 06-24-02

4.90 to 50.50 hz

062416

LOCKHEED MARTIN MISSILES & SPACE

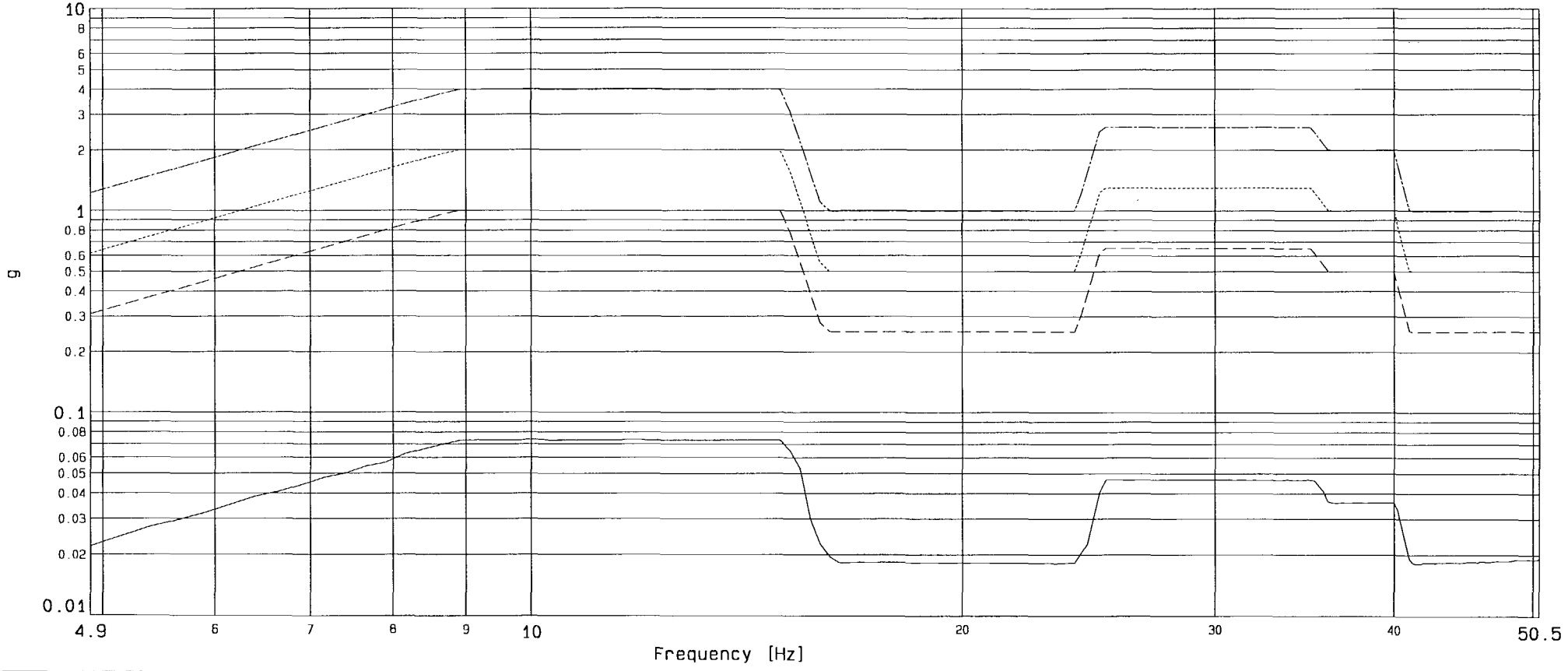
Project : hirdls
Test : Shaped_SINE
Run : 7 062416

Date : 24-06-02
Time : 23: 35: 06
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250549 Hz

Maximum value : 73.36e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y SHAPE SINE

date 06-24-02

4.90 to 50.50 hz

062416

LOCKHEED MARTIN MISSILES & SPACE

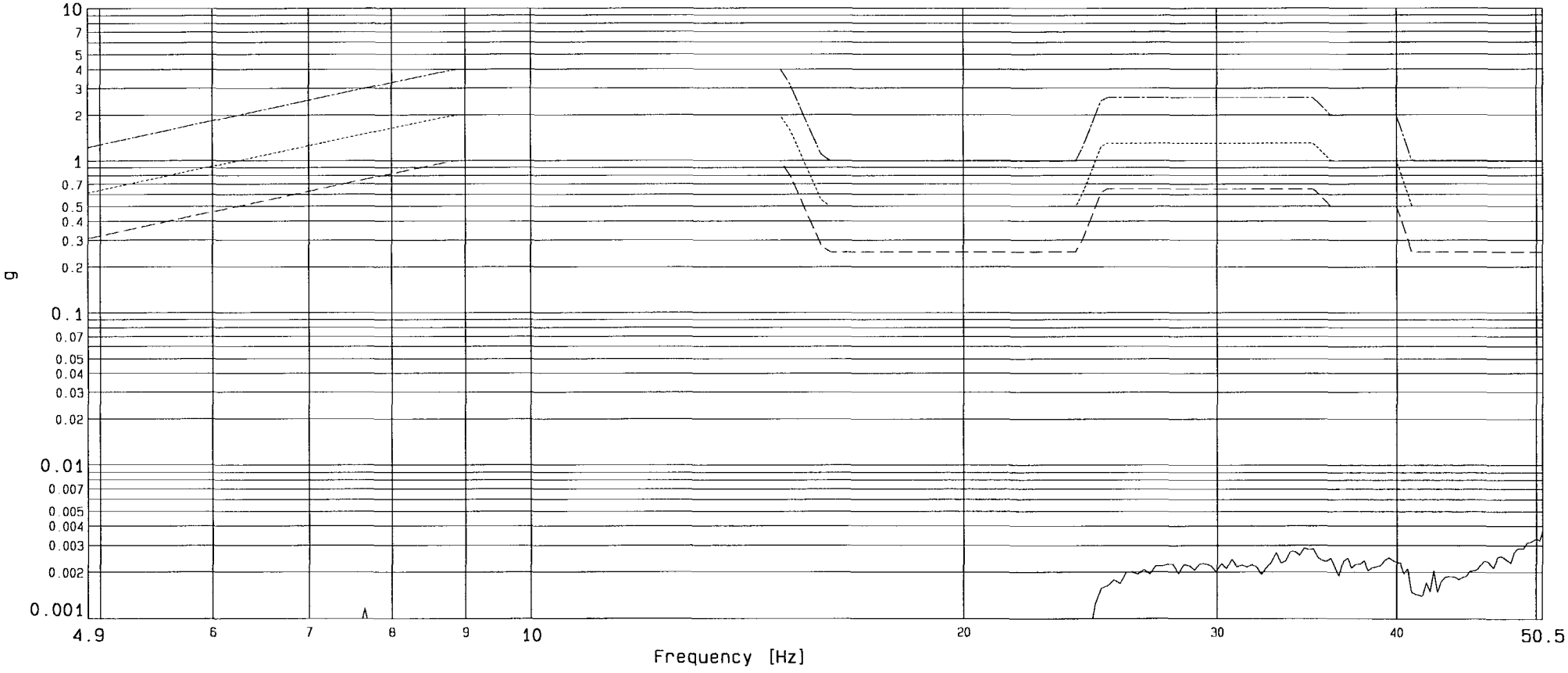
Project : hirdls
Test : Shaped_SINE
Run : 7 062416

Date : 24-06-02
Time : 23: 35: 06
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250549 Hz

Maximum value : 3.72e-03 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y SHAPE SINE

date 06-24-02

4.90 to 50.50 hz

062416

LOCKHEED MARTIN MISSILES & SPACE

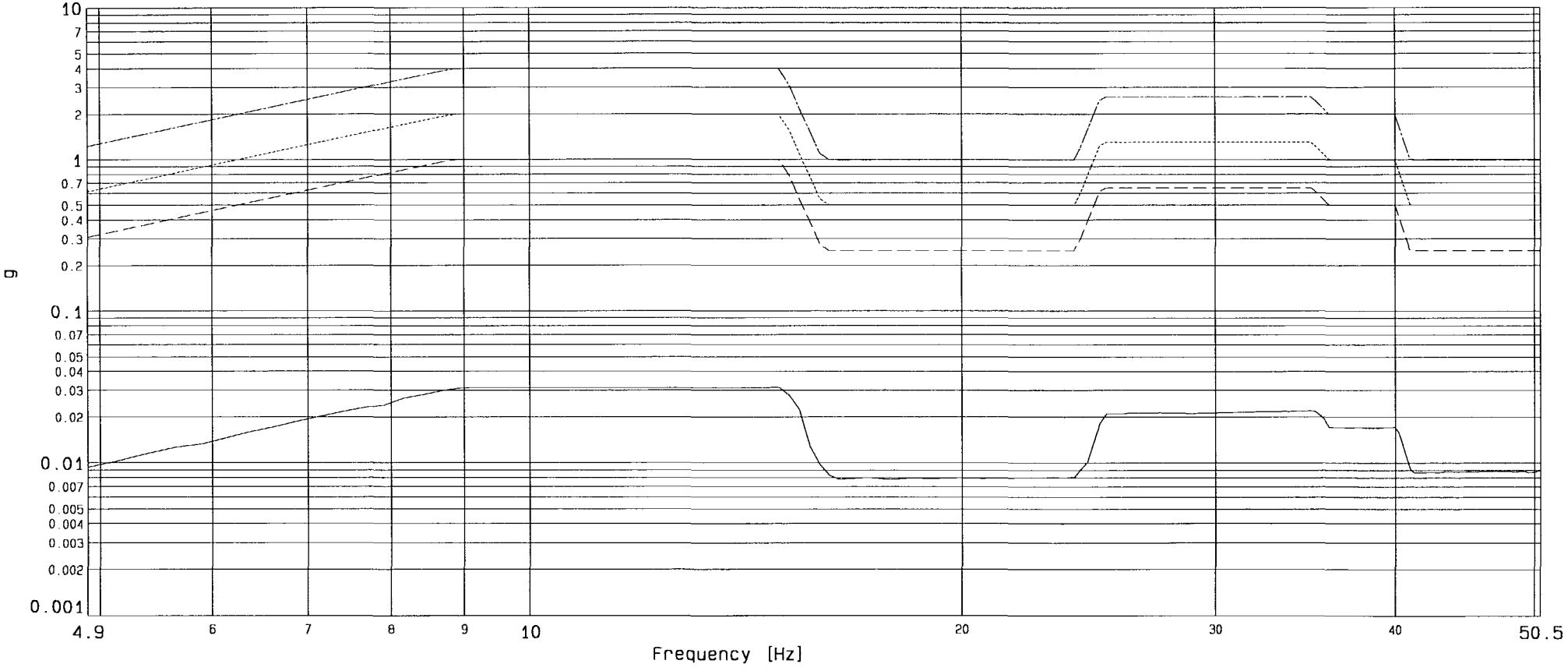
Project : hirdls
Test : Shaped_SINE
Run : 7 062416

Date : 24-06-02
Time : 23:35:06
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250549 Hz

Maximum value : 31.46e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y SHAPE SINE

date 06-24-02

4.90 to 50.50 hz

062416

LMS

LOCKHEED MARTIN MISSILES & SPACE

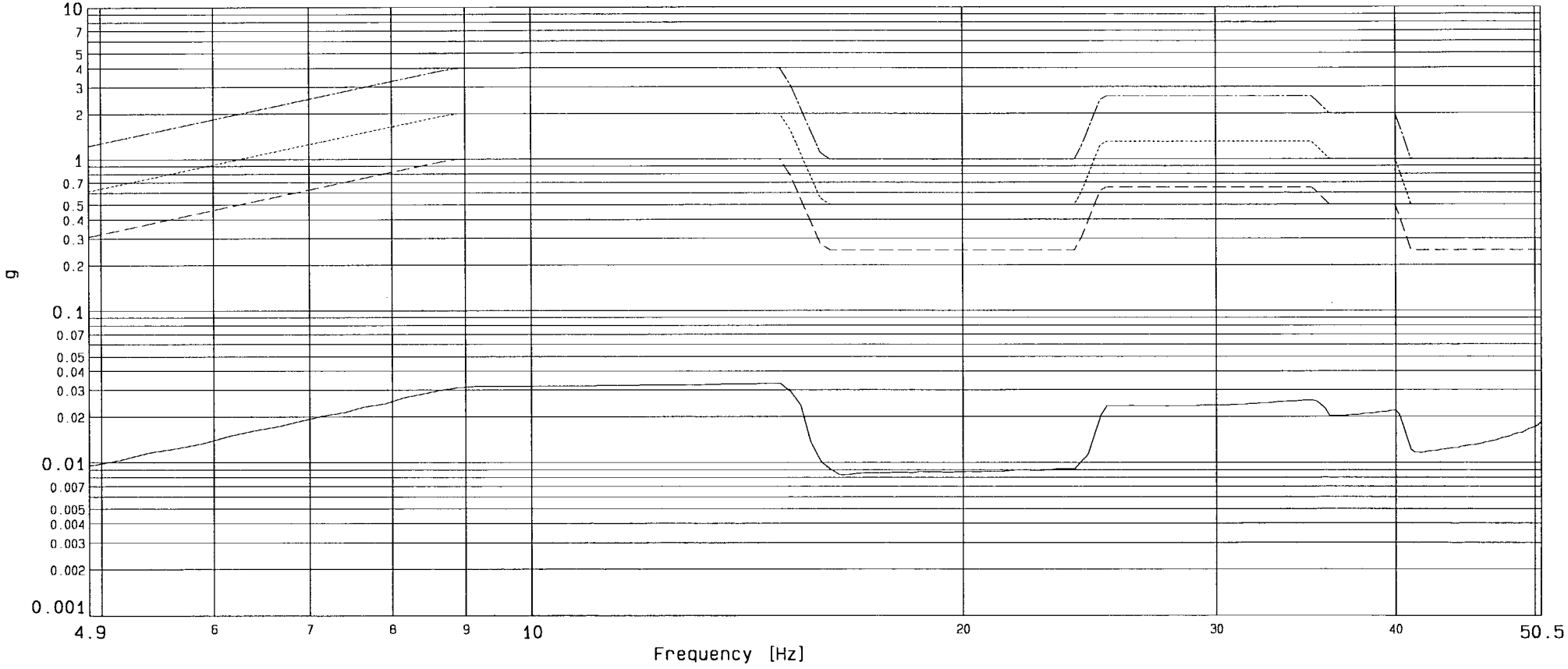
Project : hirdls
Test : Shaped_SINE
Run : 7 062416

Date : 24-06-02
Time : 23:35:06
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250549 Hz

Maximum value : 33.17e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y SHAPE SINE

date 06-24-02

4.90 to 50.50 hz

062416

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

North_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

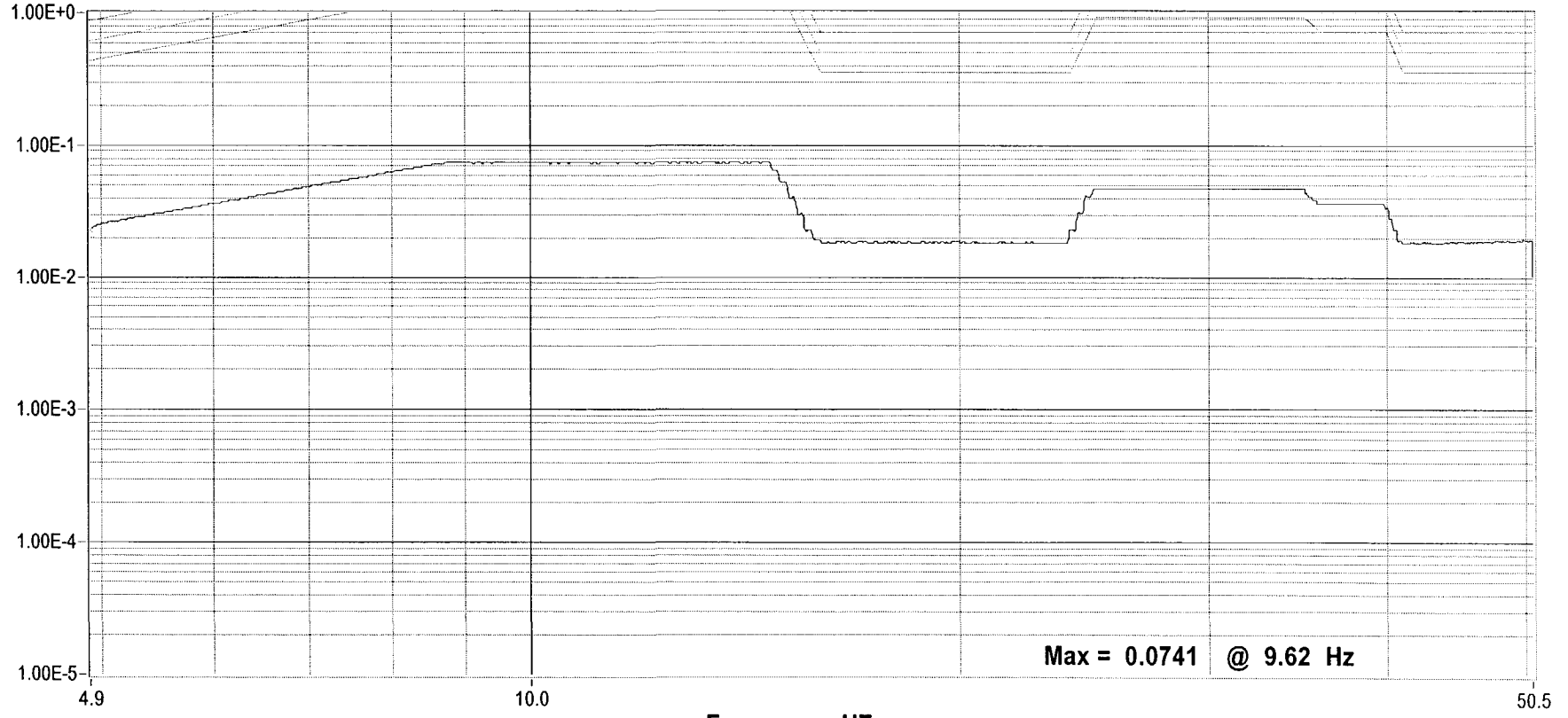
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 1 **Node Number:** 0001

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:39 PM

North_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

North_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

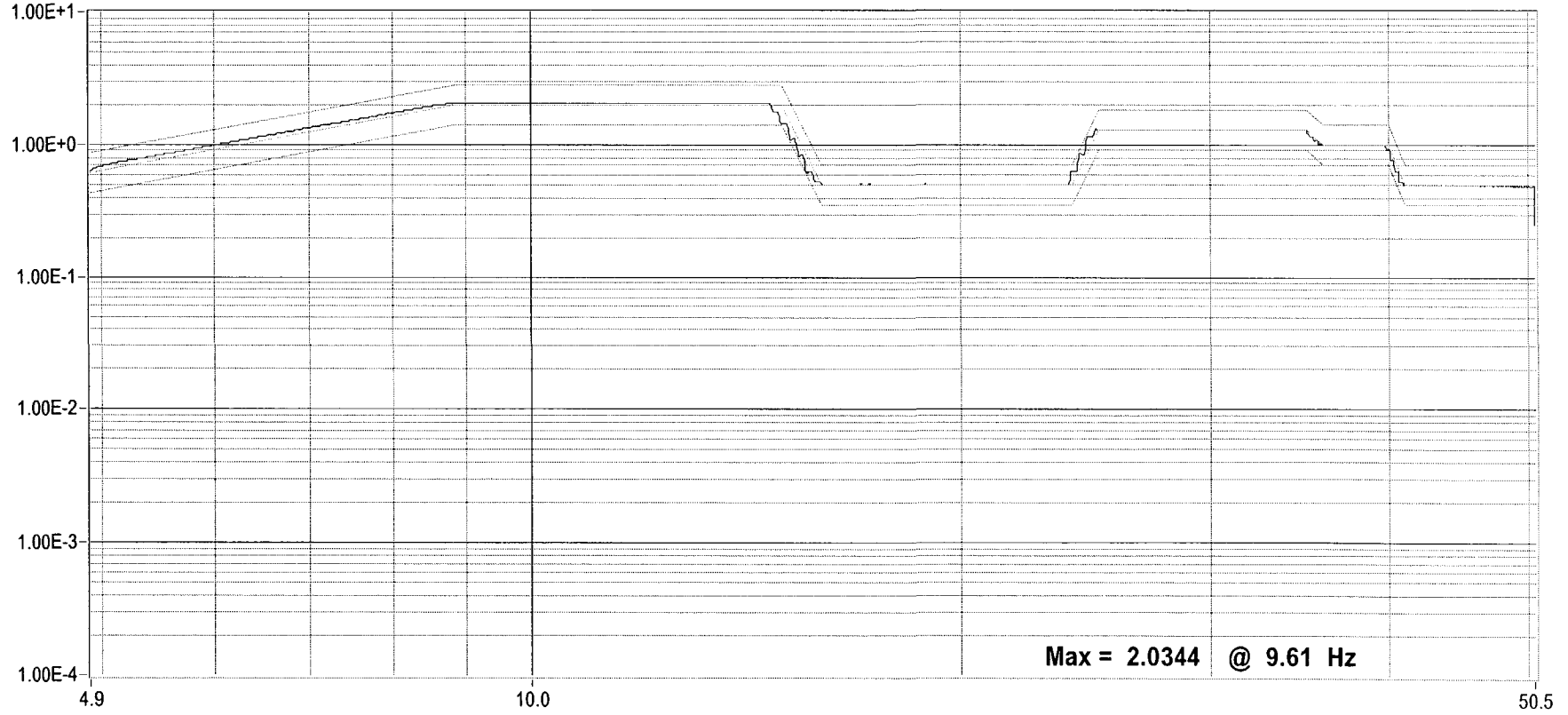
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 2 **Node Number:** 0002

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:39 PM

North_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: **24-Jun-2002 23:27:45**

North_Control_Z

Test Type: **Sine**

Test: **HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE**

Specimen **HIRDLS VIBRATION TEST**

Test File Number: **062416**

Part Number/ID: **Y4011**

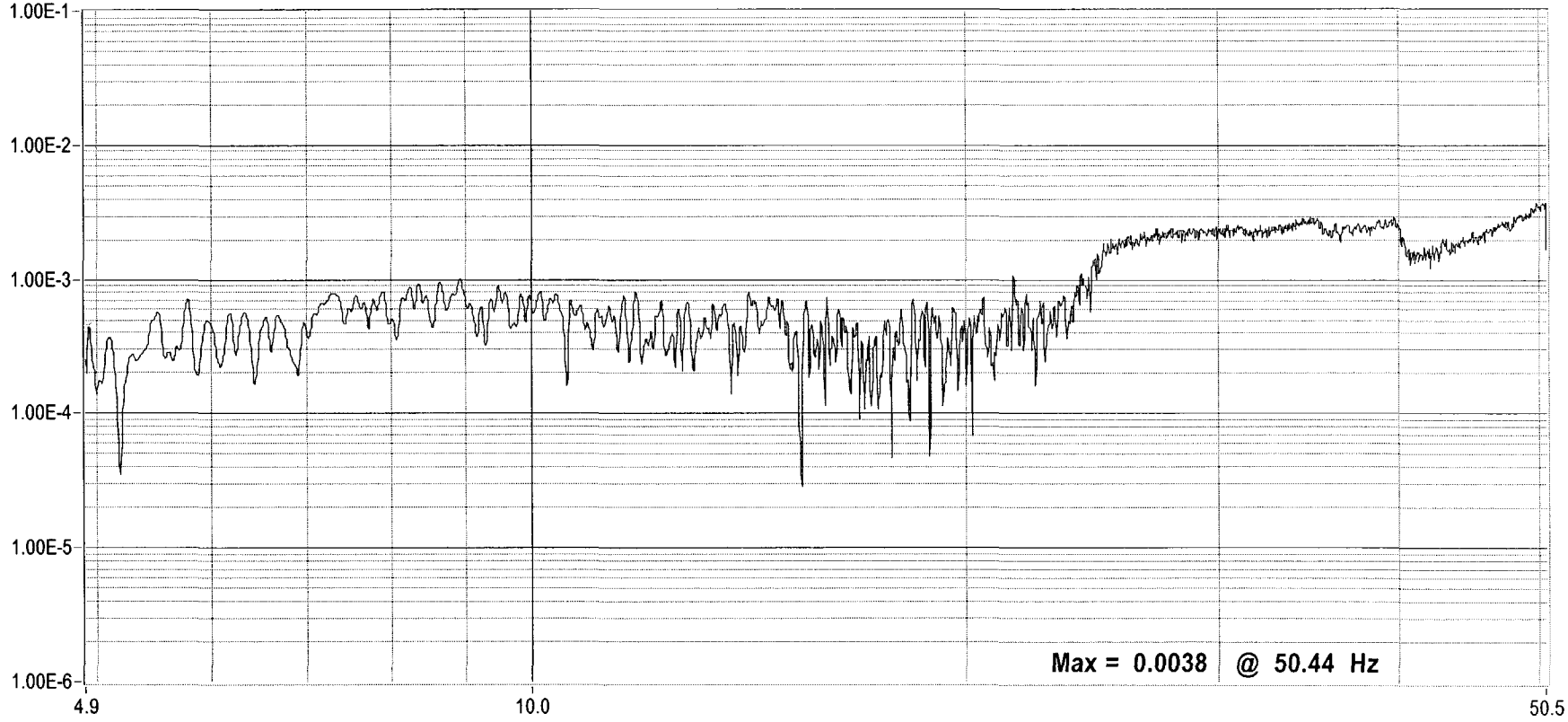
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: **3** **Node Number:** **0003**

Channel Description: **na**

Test File Name: **D:\Test\Test 2002\Y4011 HIRDLS\SINE.set**

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:39 PM

North_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

South_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

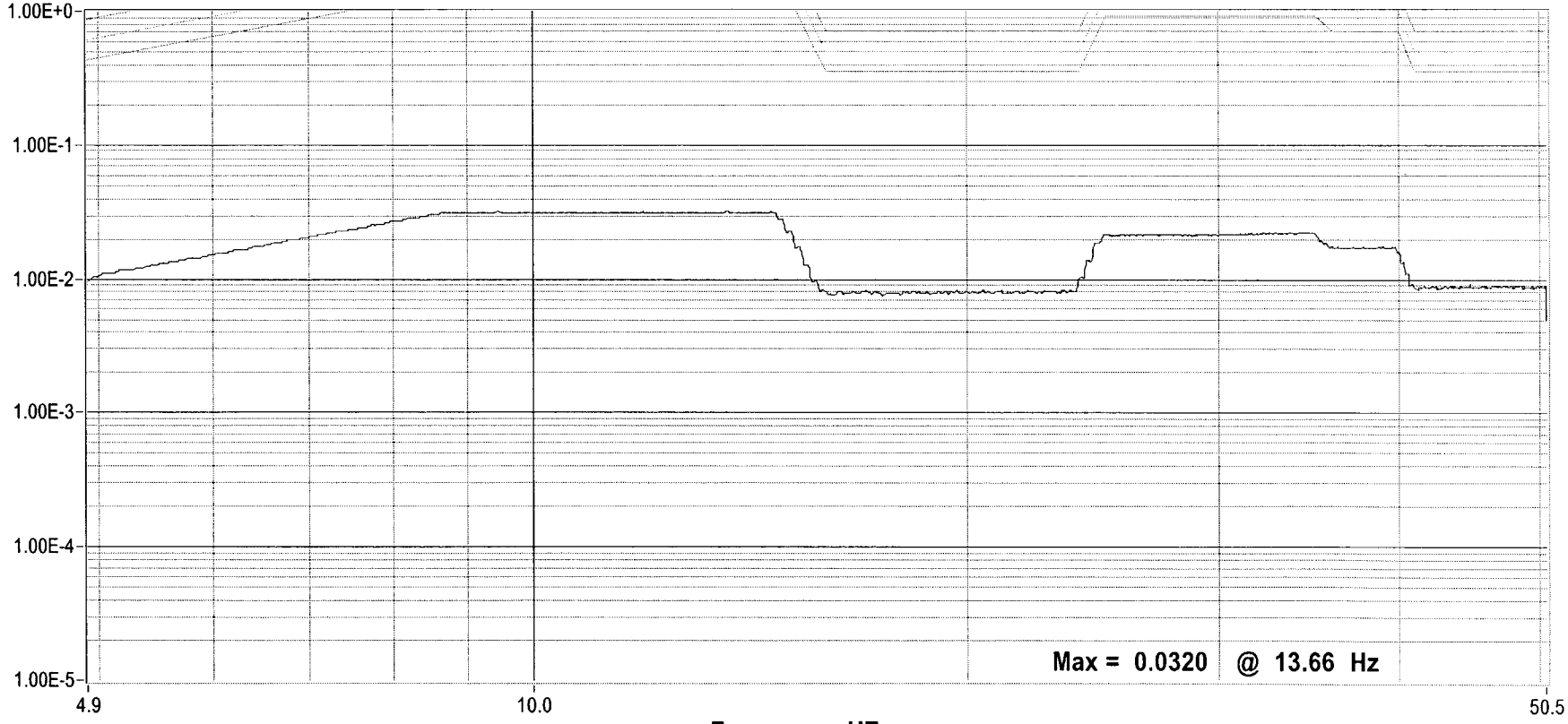
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 4 **Node Number:** 0004

Channel Description: I

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

South_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

South_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

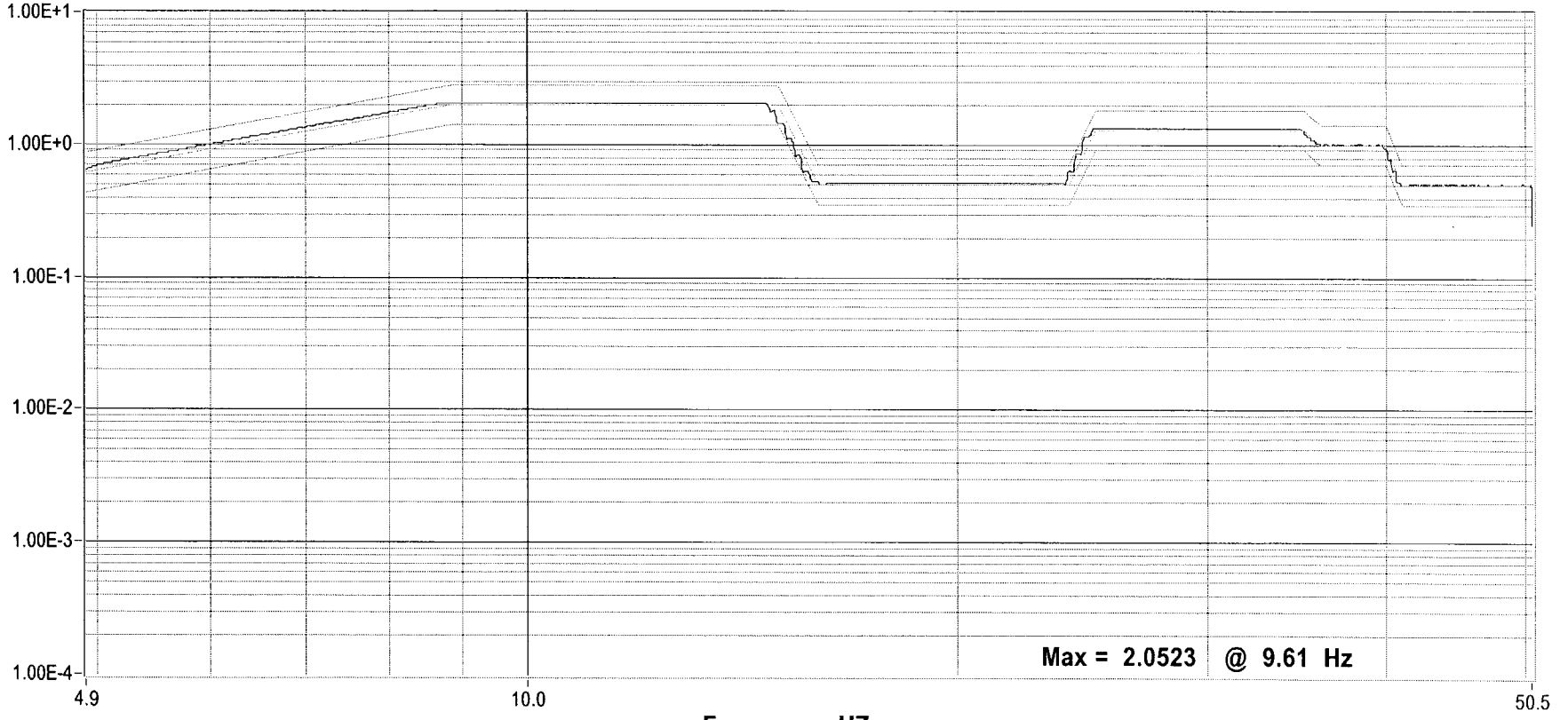
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 5 **Node Number:** 0005

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

South_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

South_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

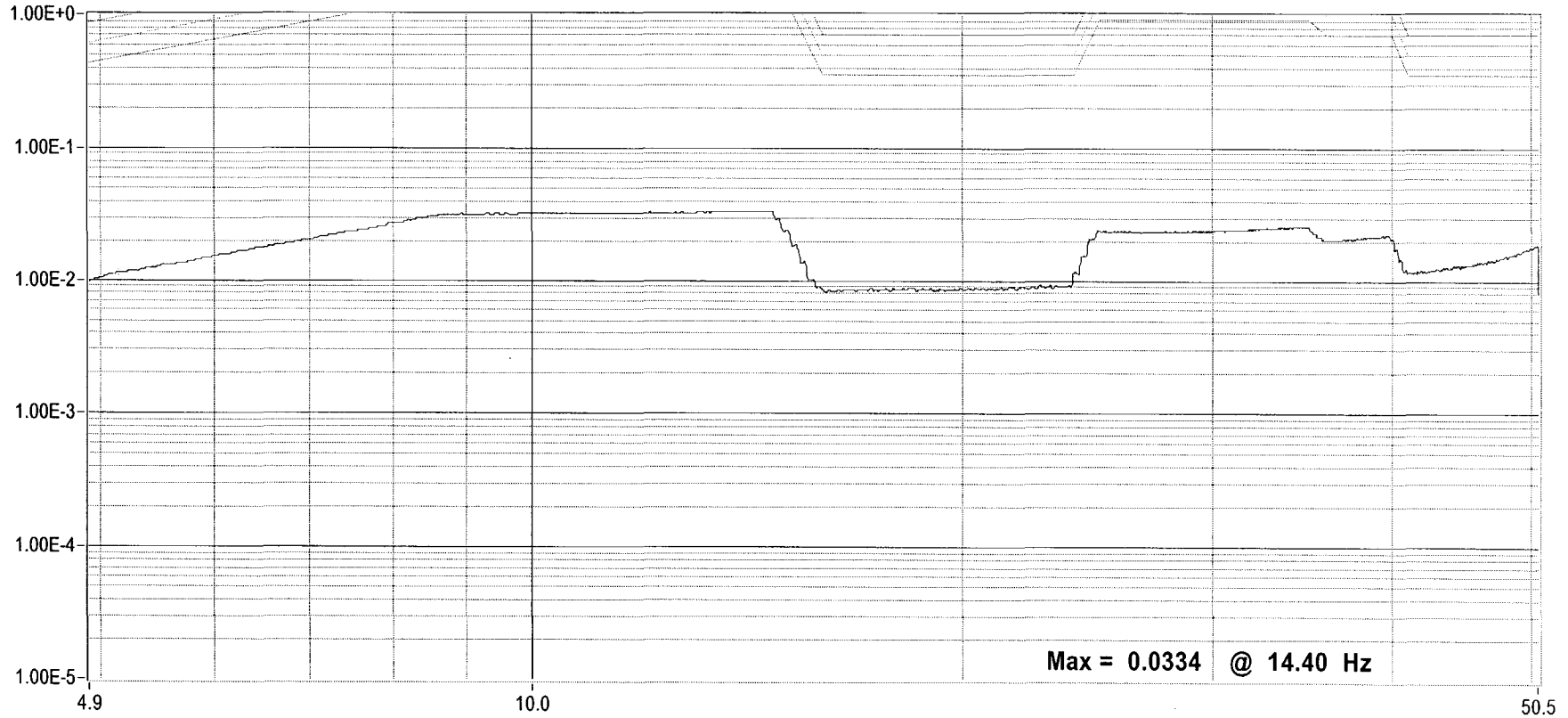
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 6 **Node Number:** 0006

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

South_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A5 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

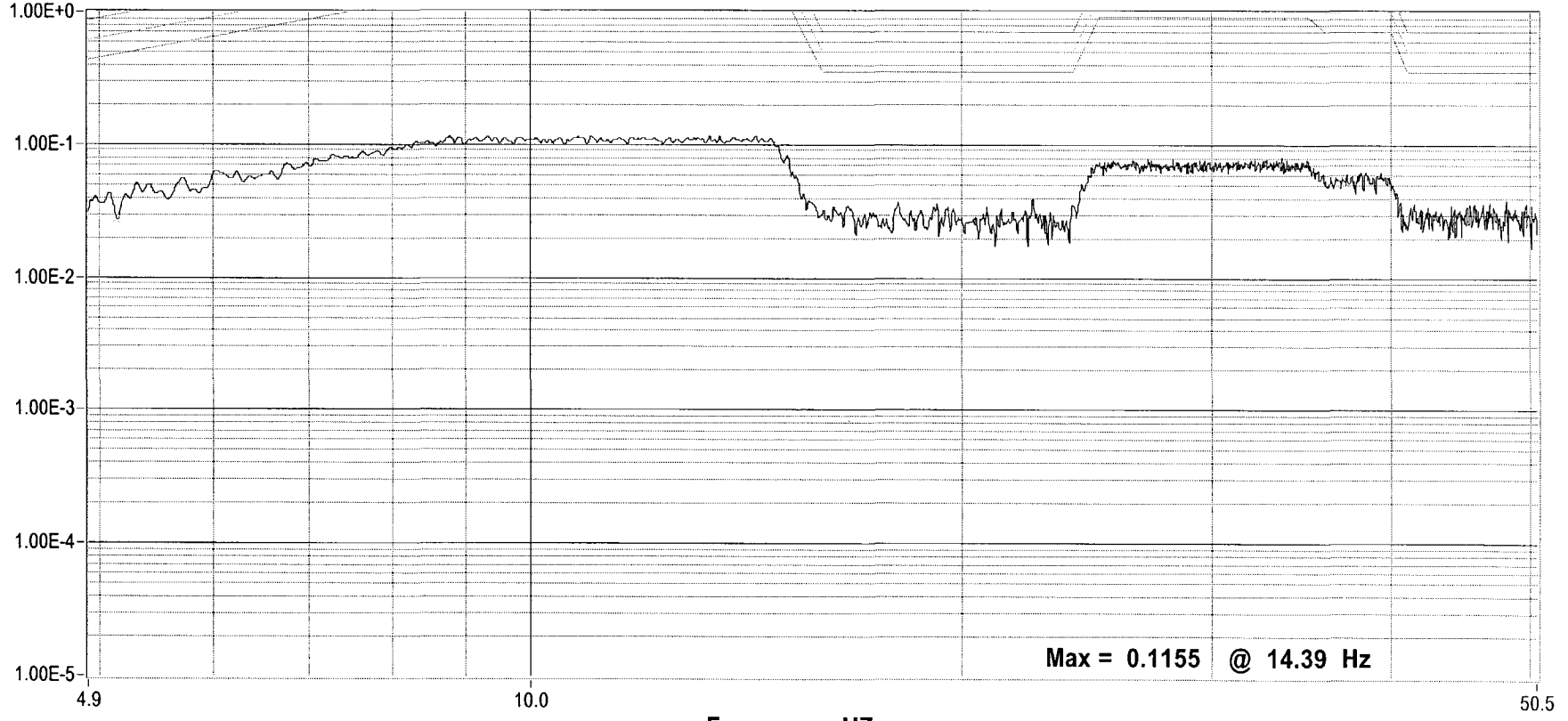
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 7 **Node Number:** 0007

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

A5 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A5 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

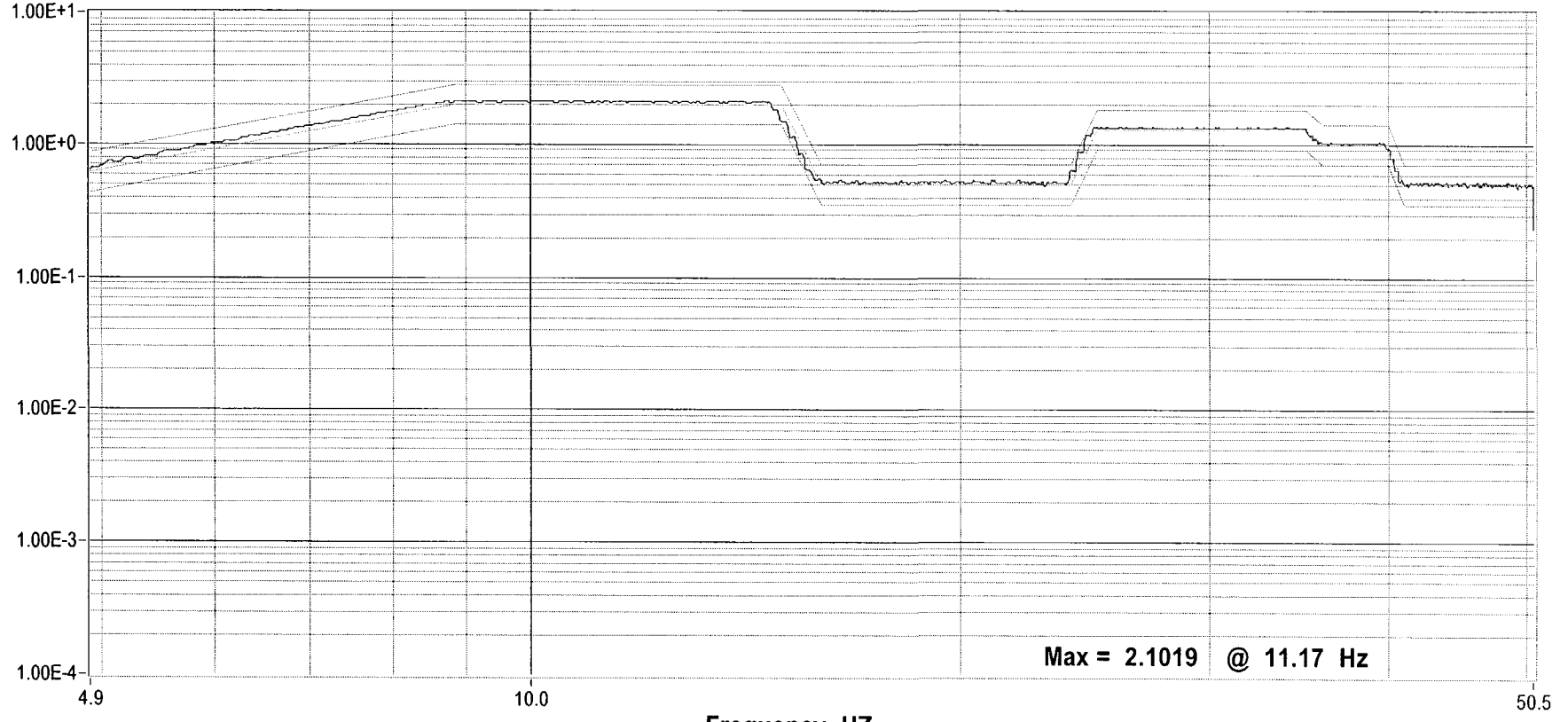
Channel #: 8 **Node Number:** 0008

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

A5 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A5 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

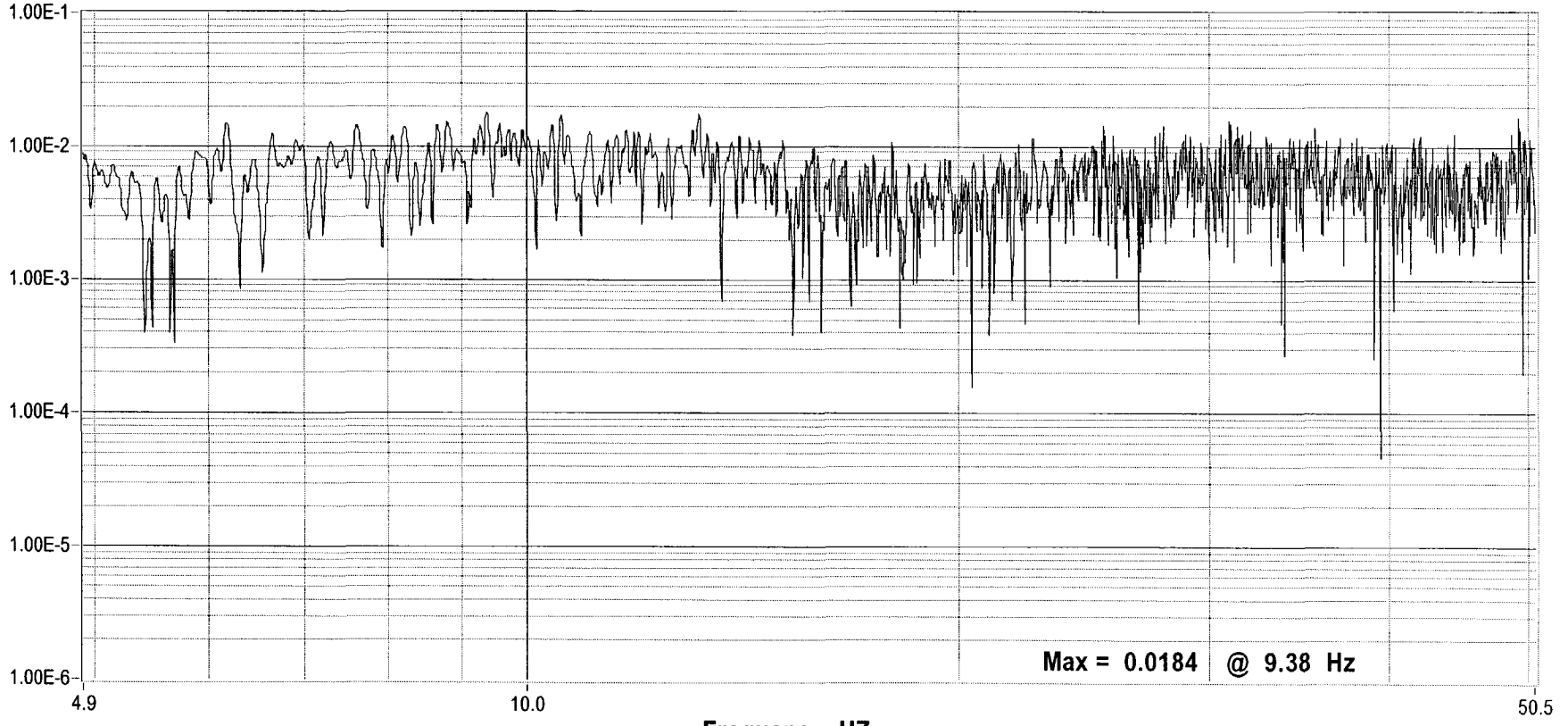
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 9 **Node Number:** 0009

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

A5 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A6 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

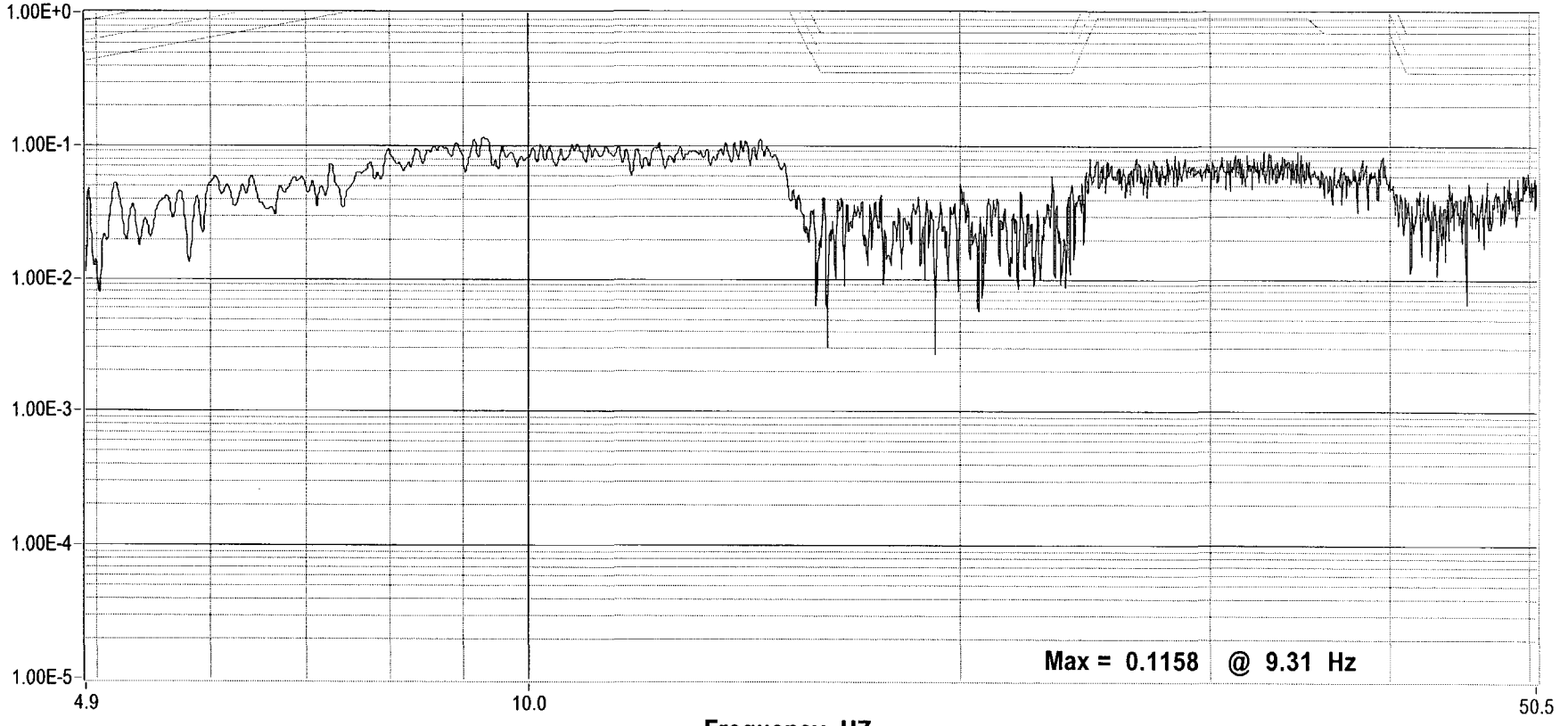
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 10 **Node Number:** 0010

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

A6 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A6 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

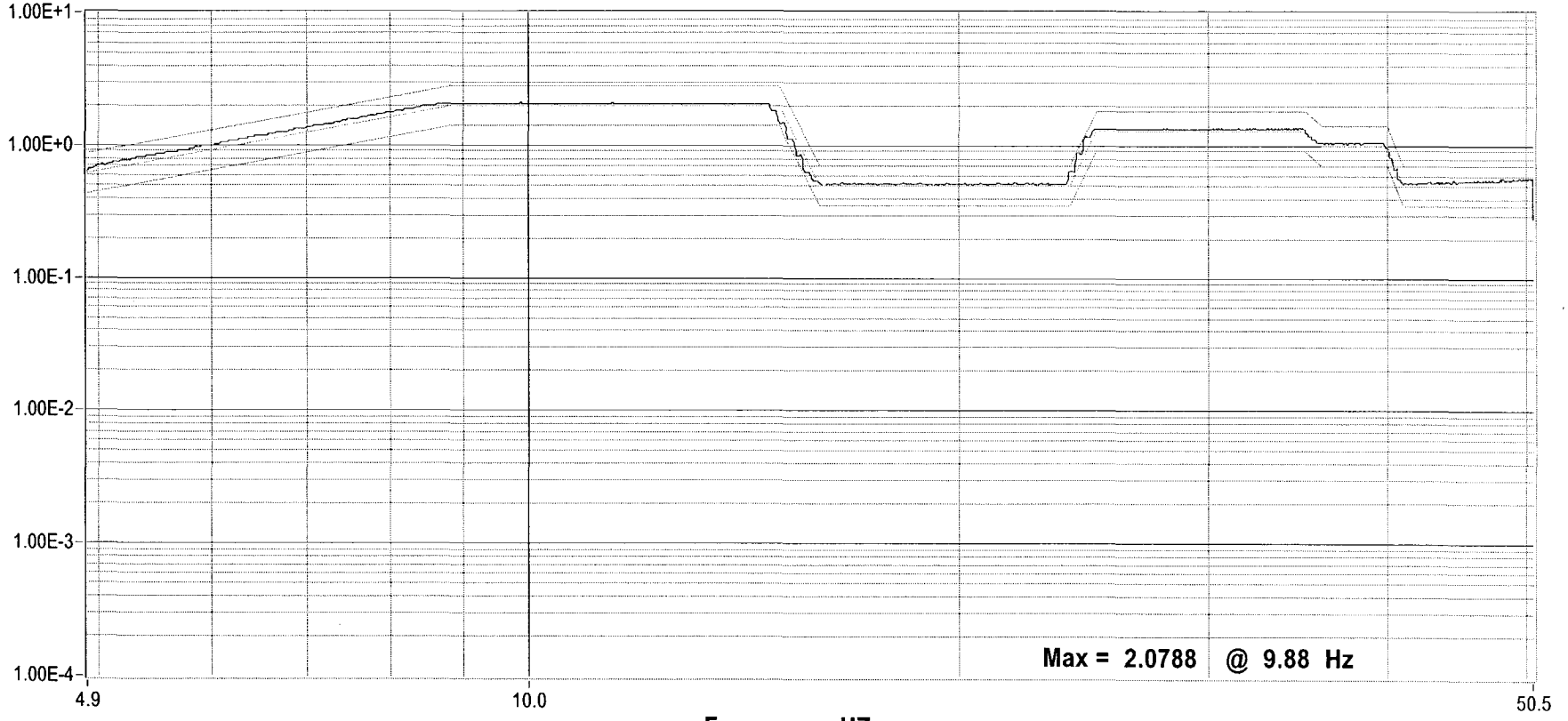
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 11 **Node Number:** 0011

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

A6 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A6 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

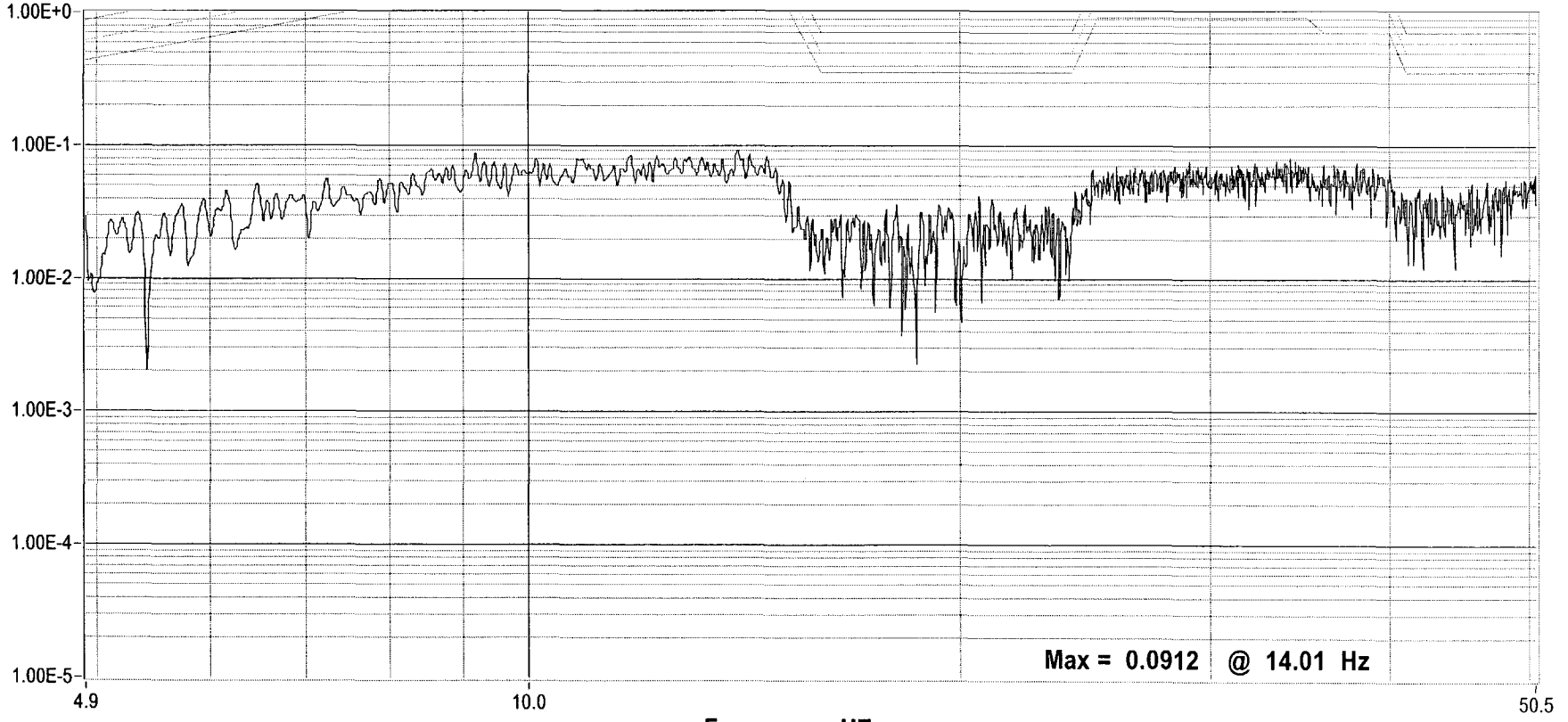
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 12 **Node Number:** 0012

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:40 PM

A6 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A7 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

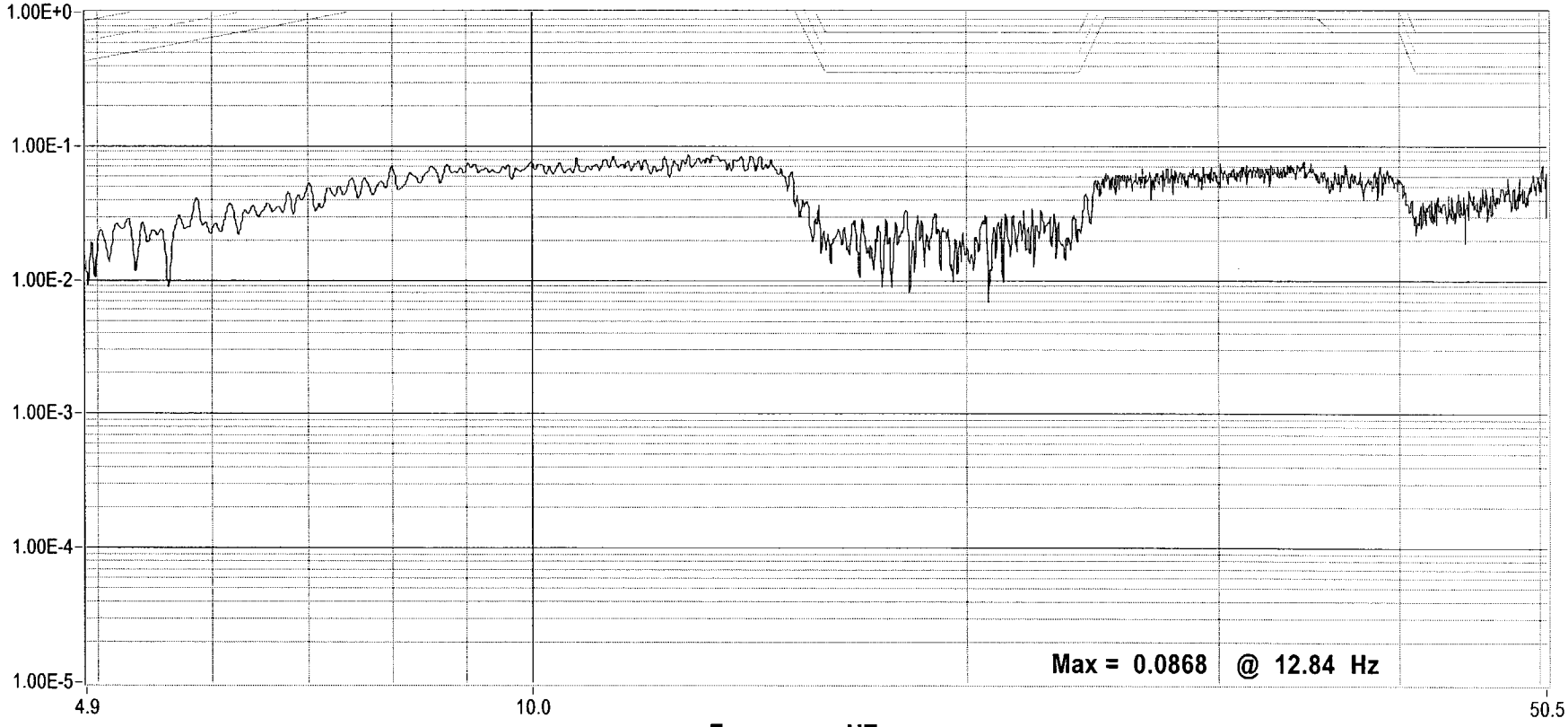
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 17 **Node Number:** 0017

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A7 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A7 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

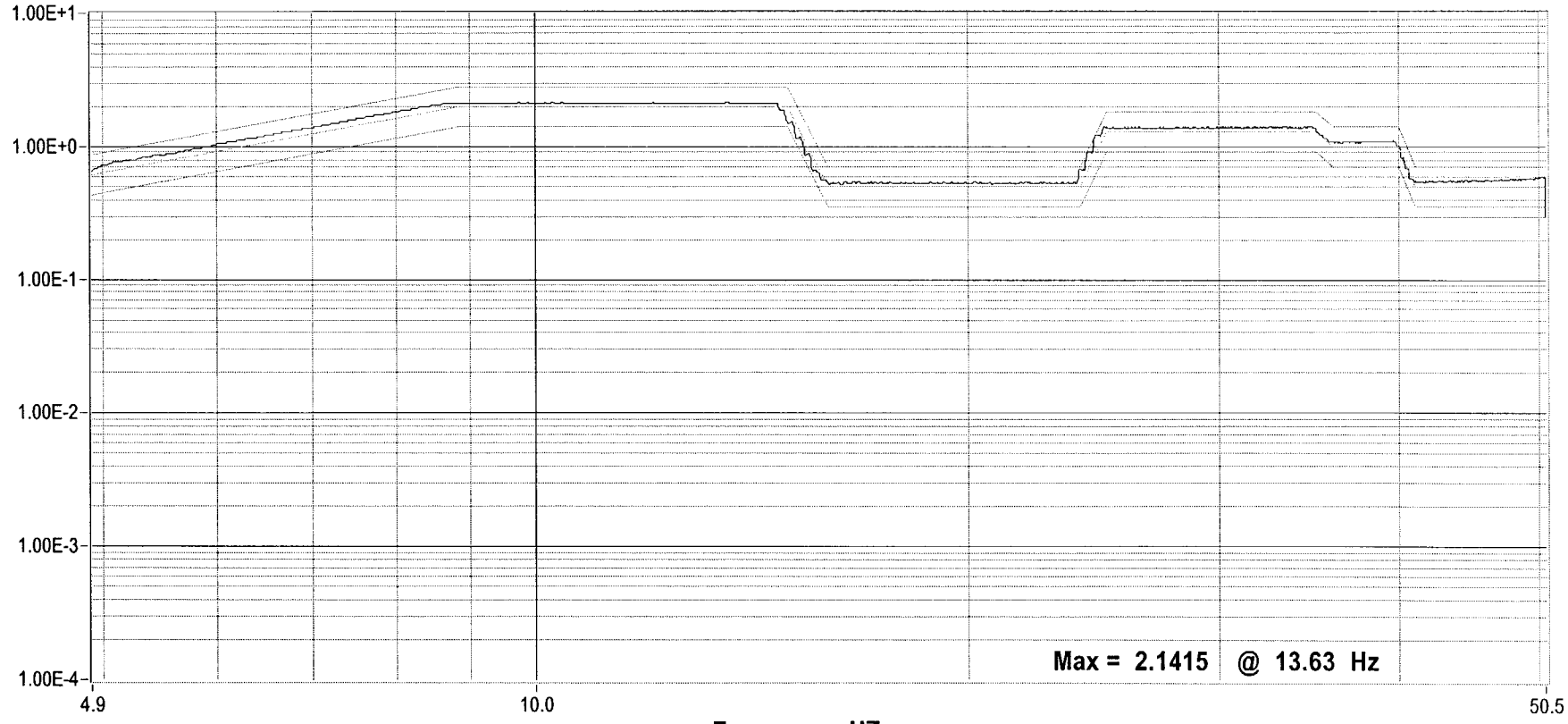
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 18 **Node Number:** 0018

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A7 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A7 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

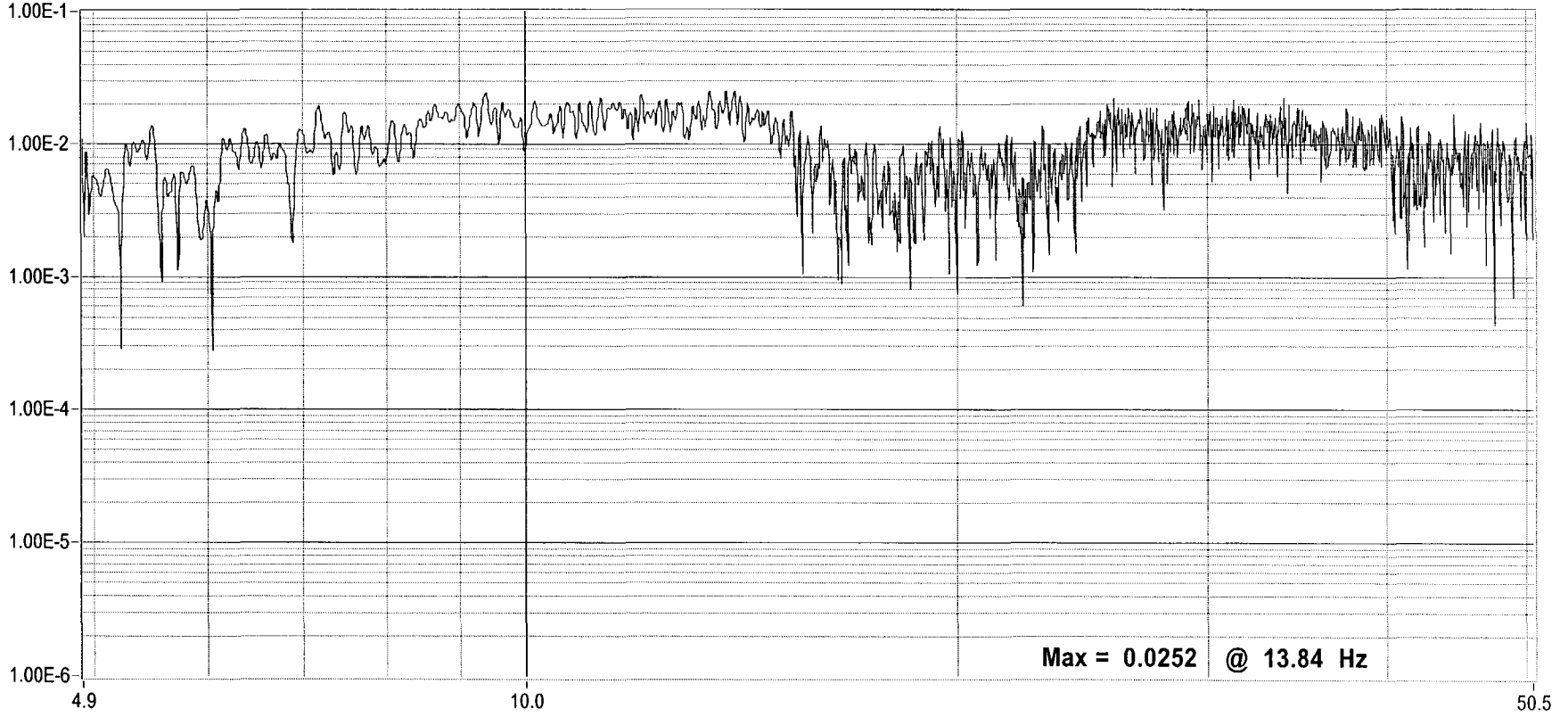
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 19 **Node Number:** 0019

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A7 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A8 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

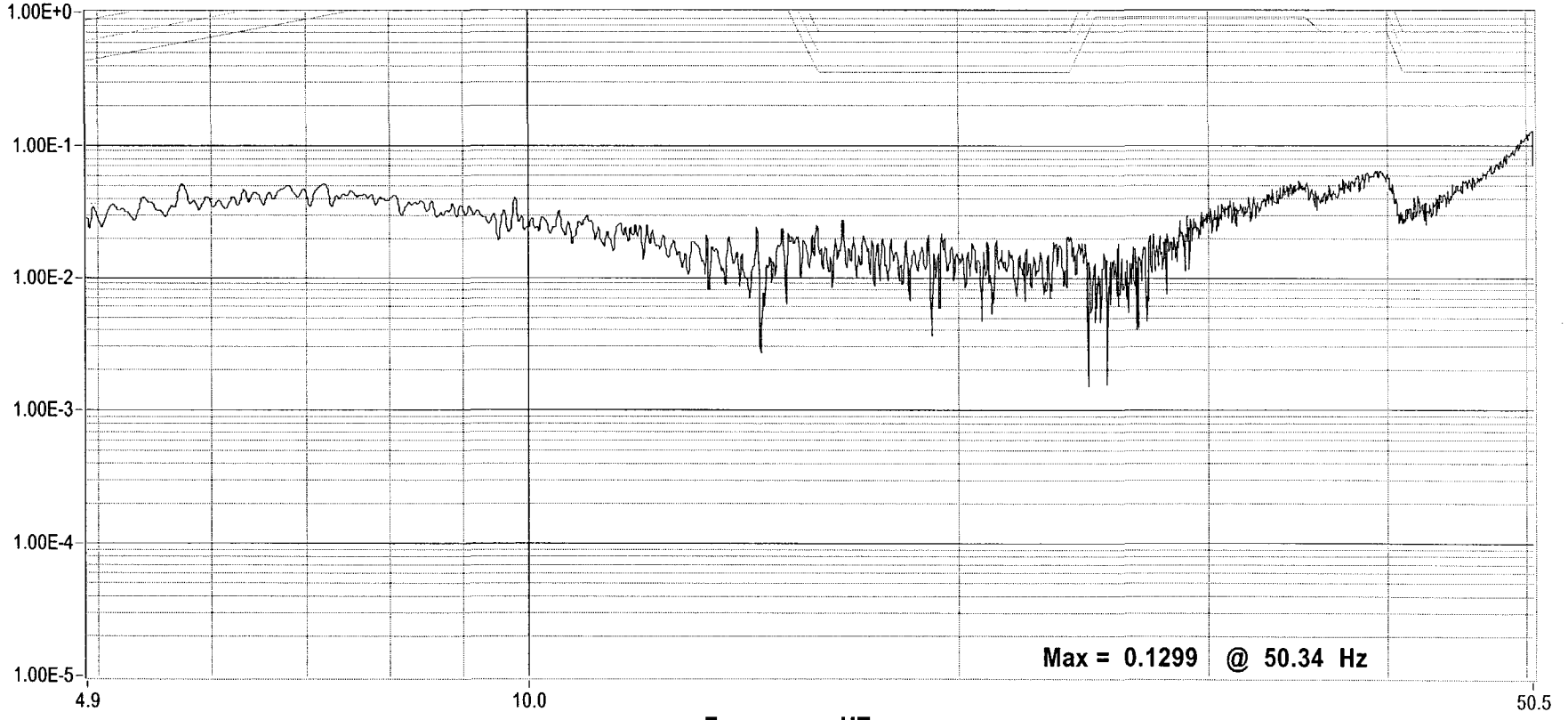
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 20 **Node Number:** 0020

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A8 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A8 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

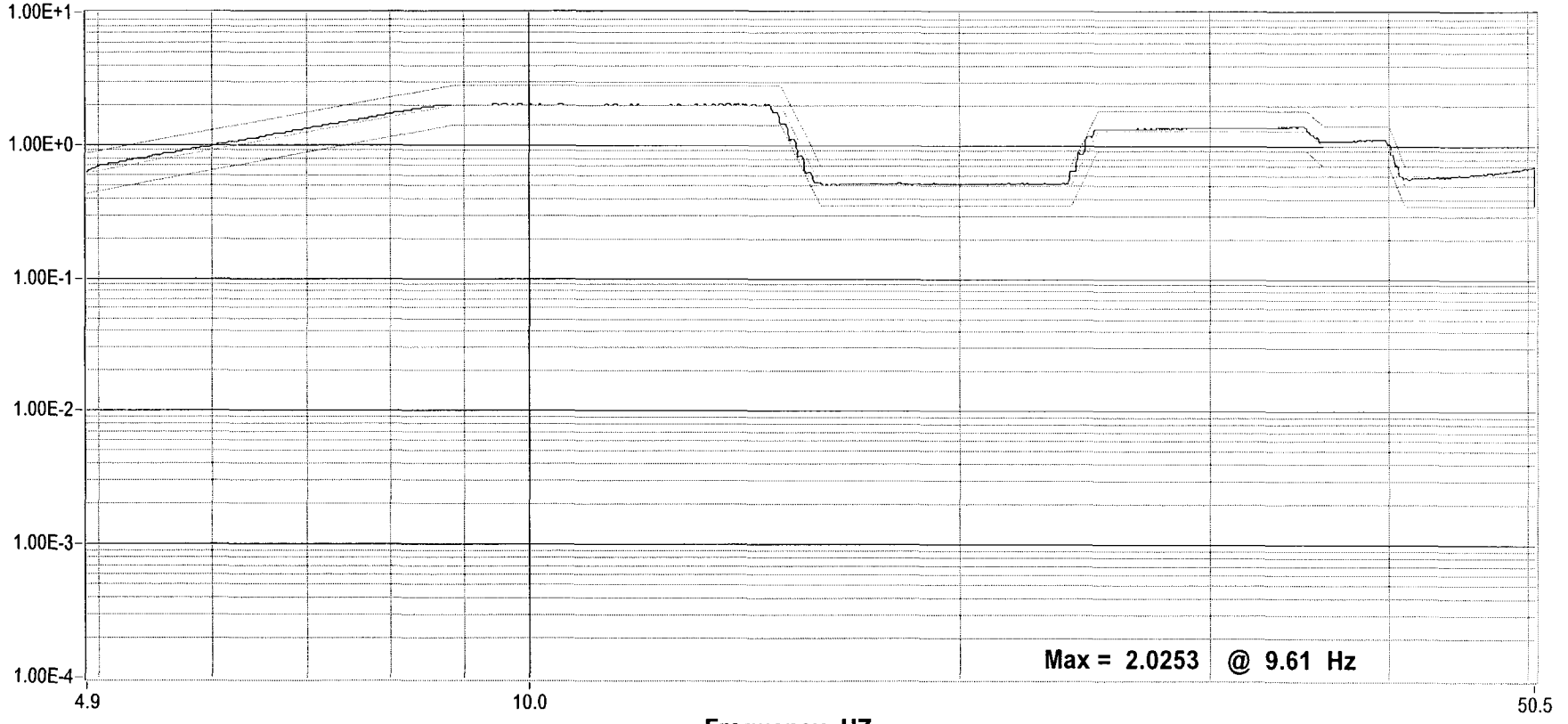
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 21 **Node Number:** 0021

Channel Description: 0.01034

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A8 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A8 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

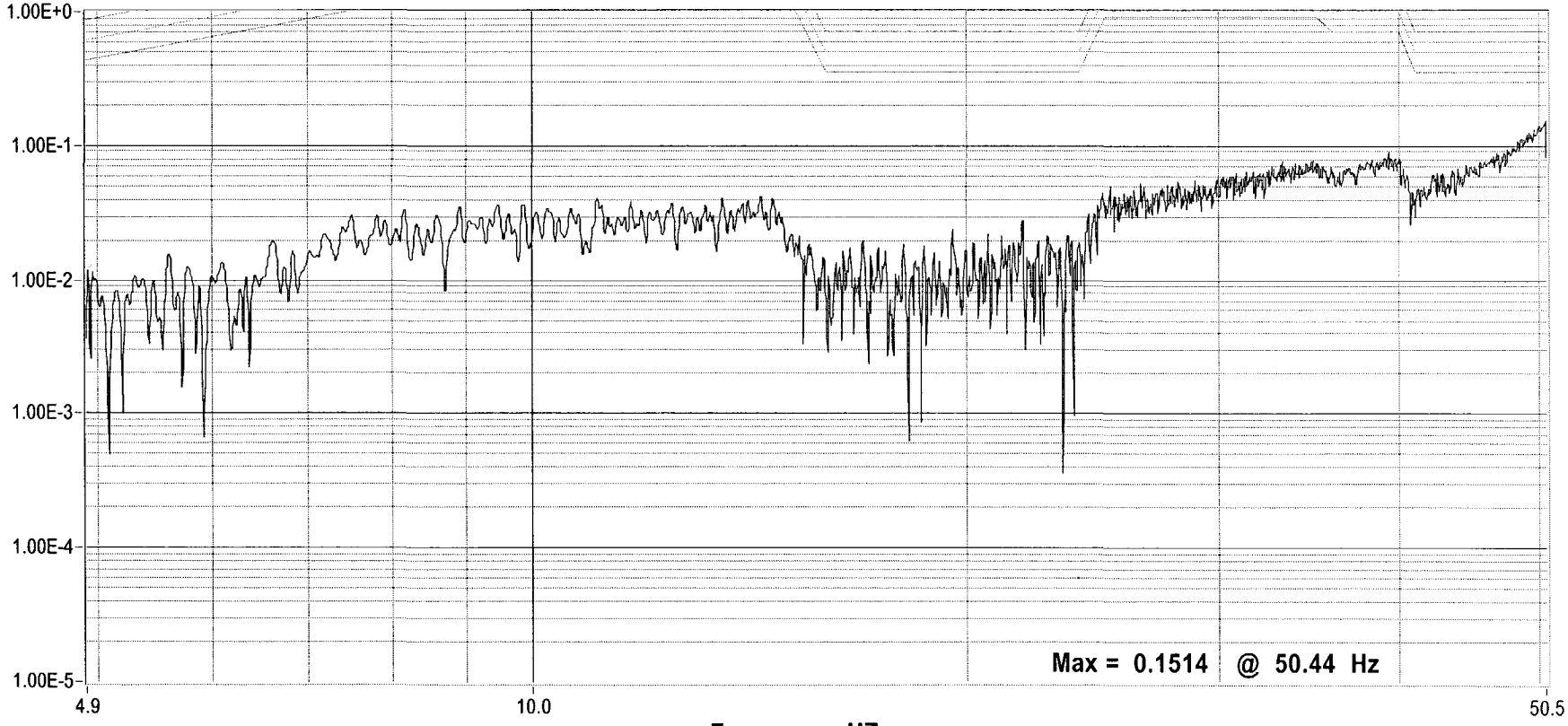
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 22 **Node Number:** 0022

Channel Description: 0.01029

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A8 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A9 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

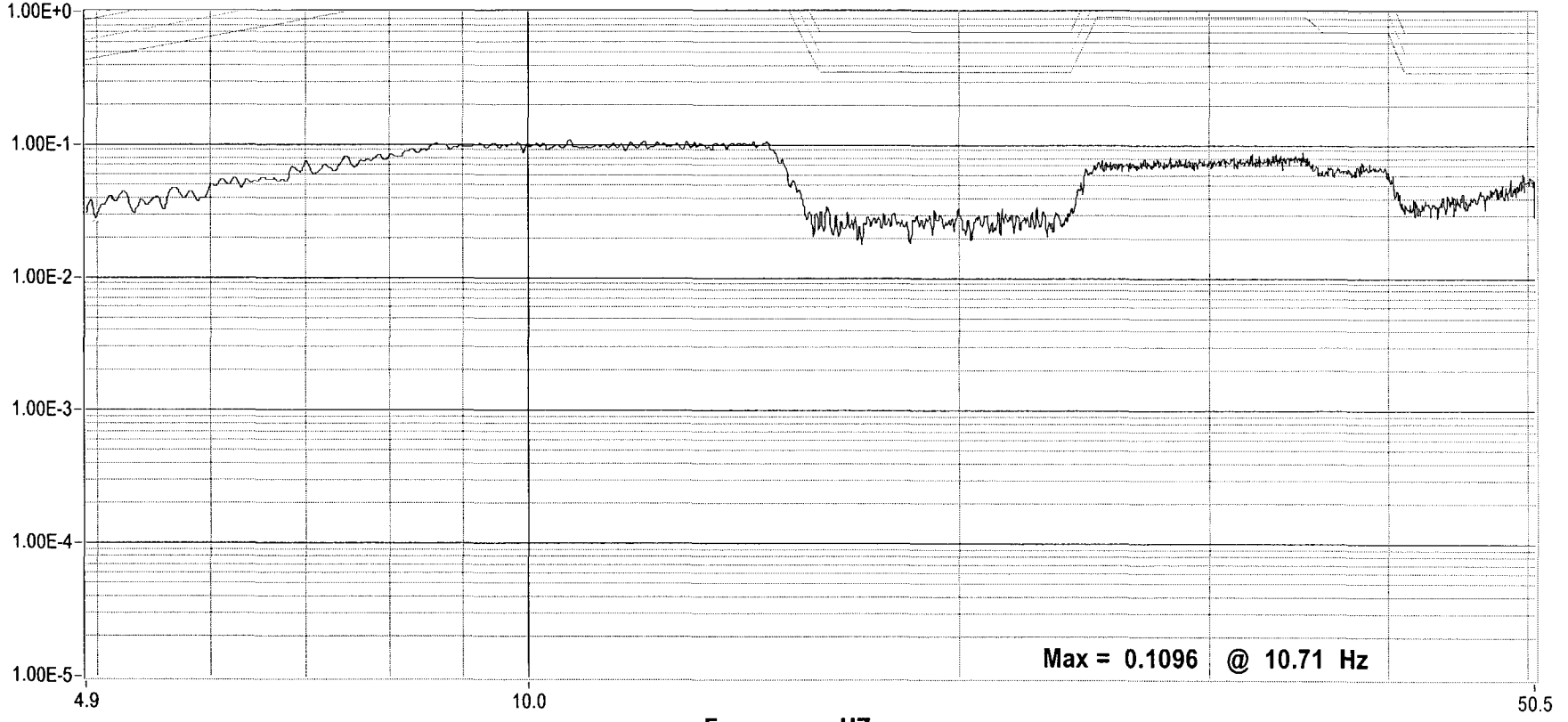
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 23 **Node Number:** 0023

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A9 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A9 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

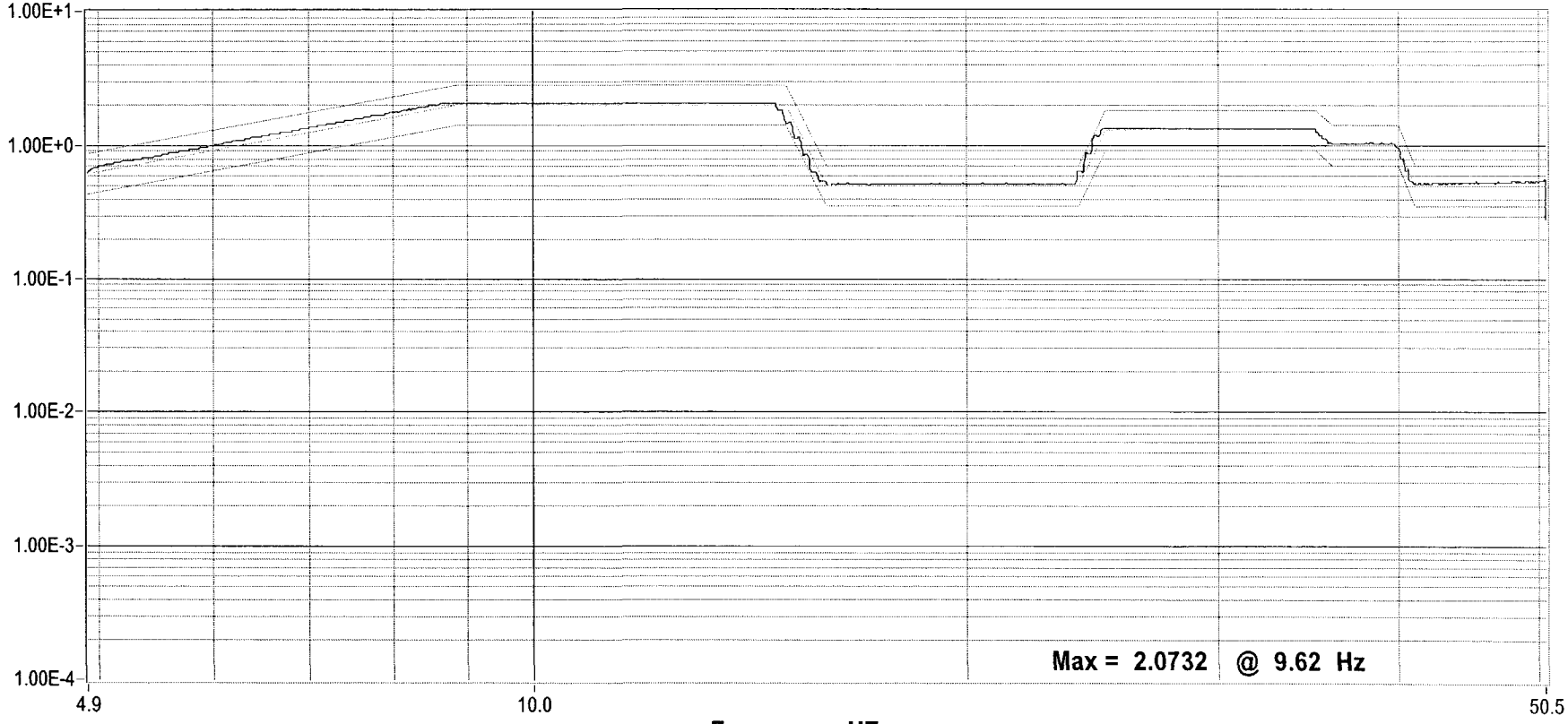
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 24 **Node Number:** 0024

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:41 PM

A9 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A9 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

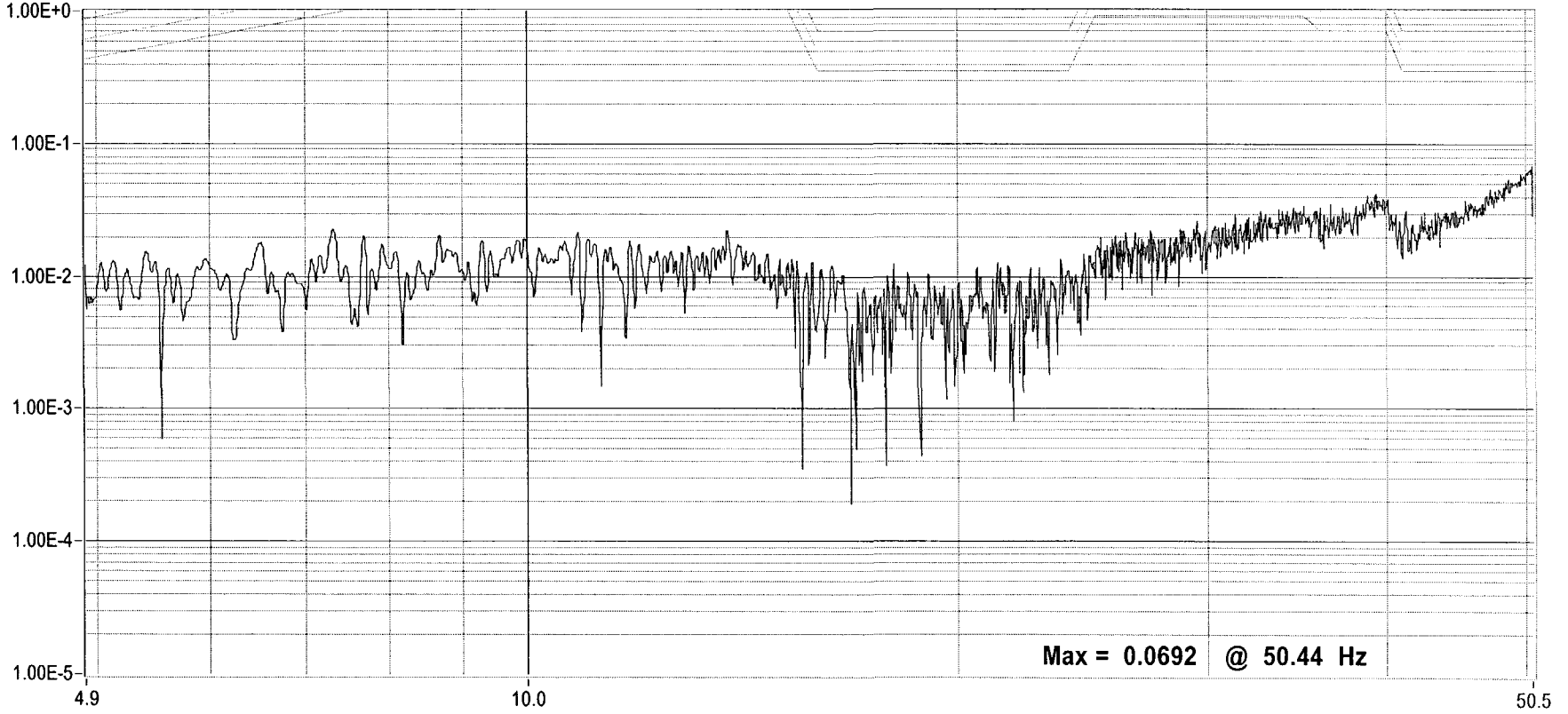
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 25 **Node Number:** 0025

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

A9 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A10 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

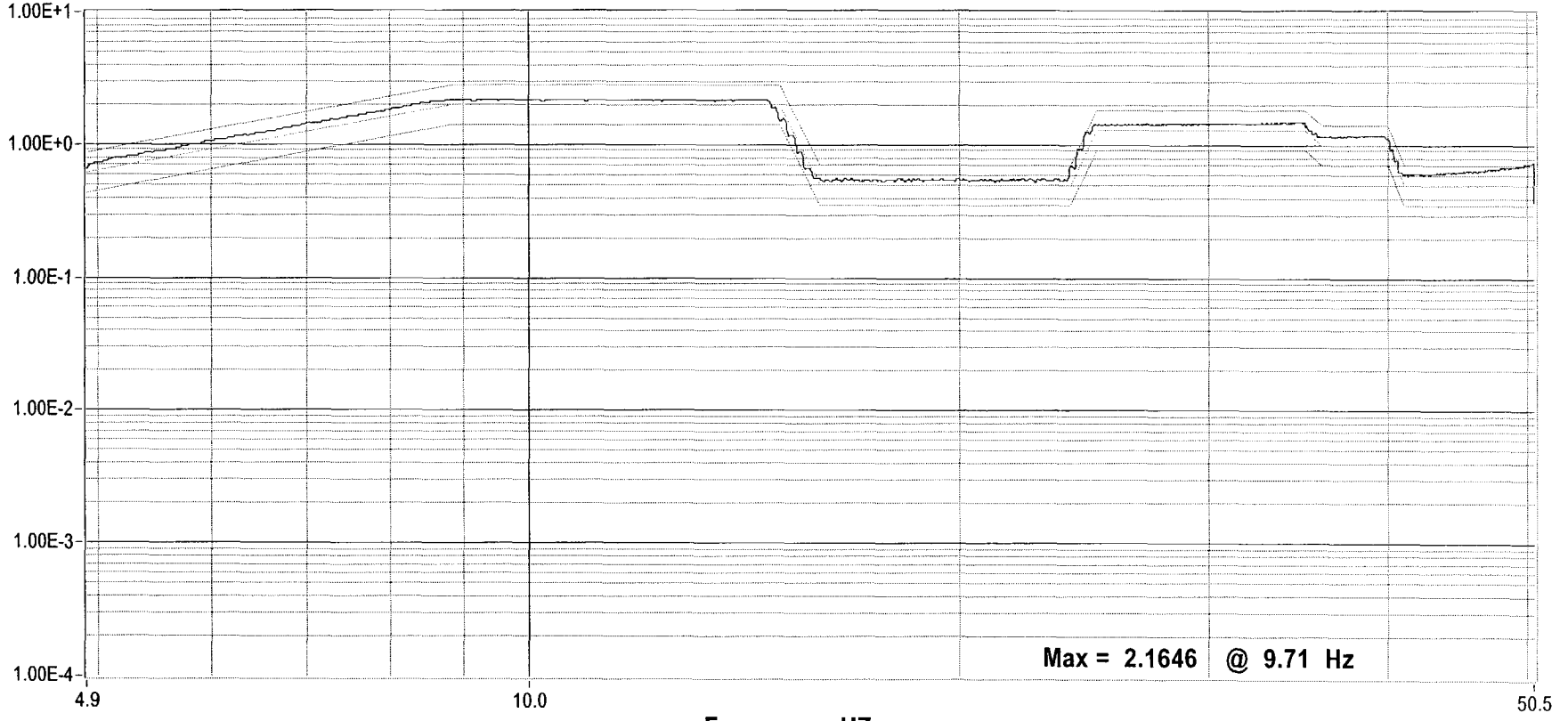
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 26 **Node Number:** 0026

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

A10 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A10 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

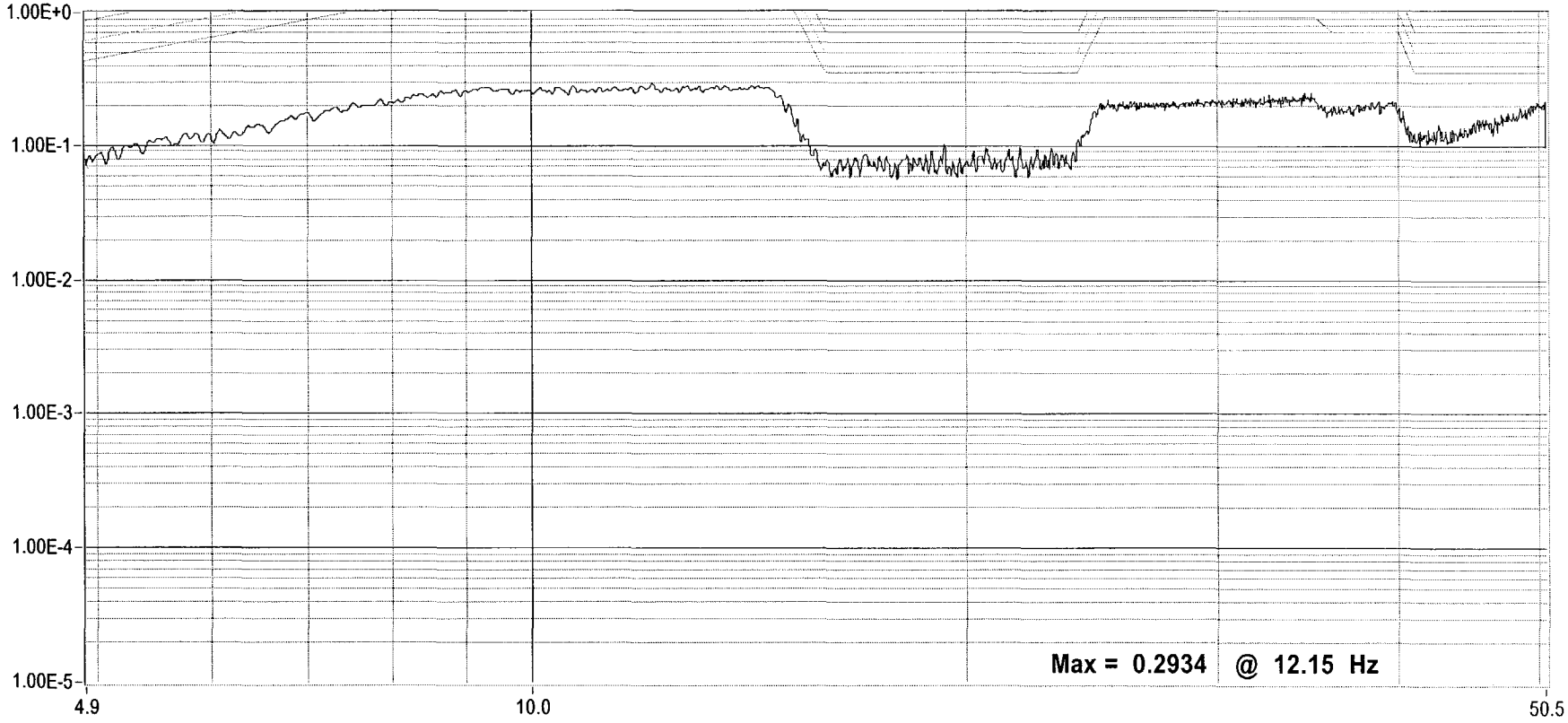
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 27 **Node Number:** 0027

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

A10 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A10 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

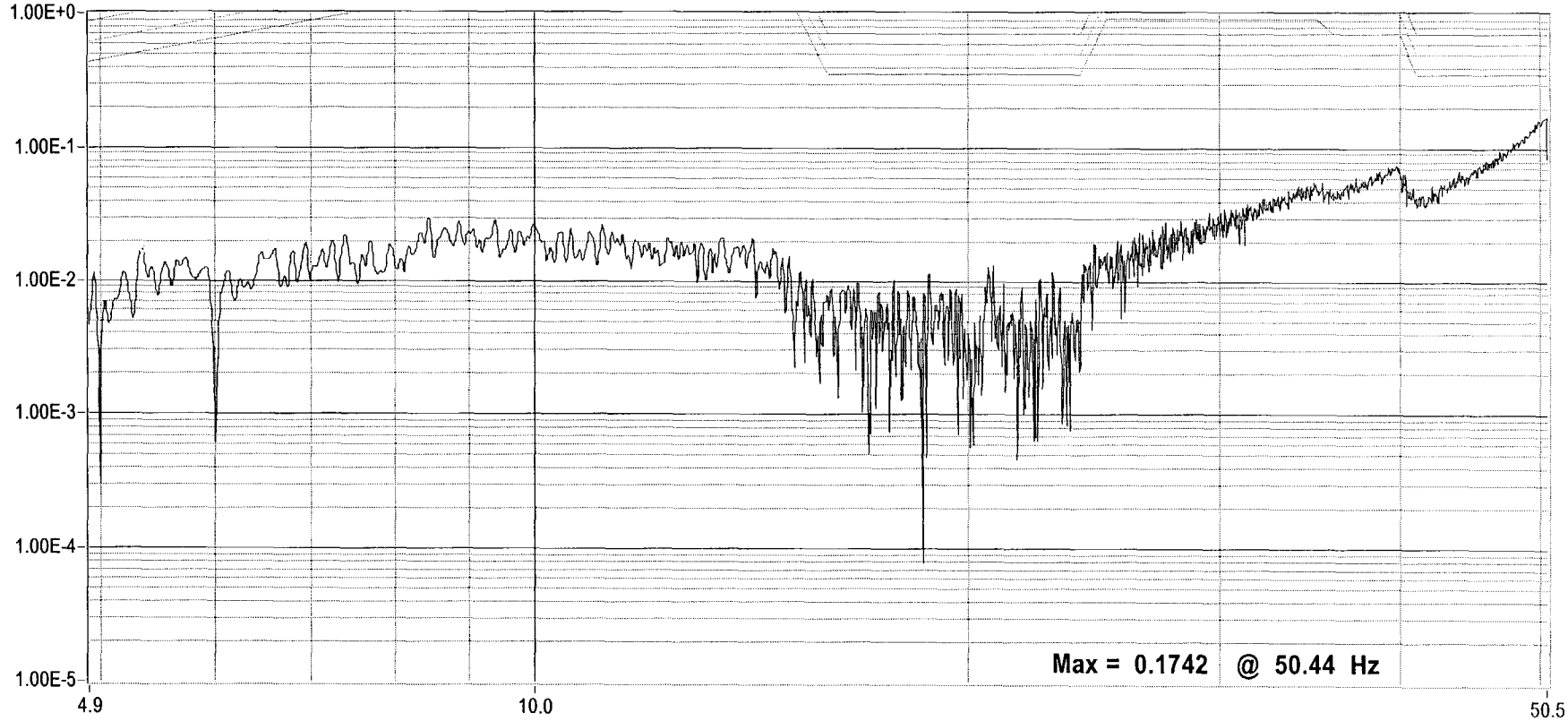
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 28 **Node Number:** 0028

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

A10 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

DRIVE

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

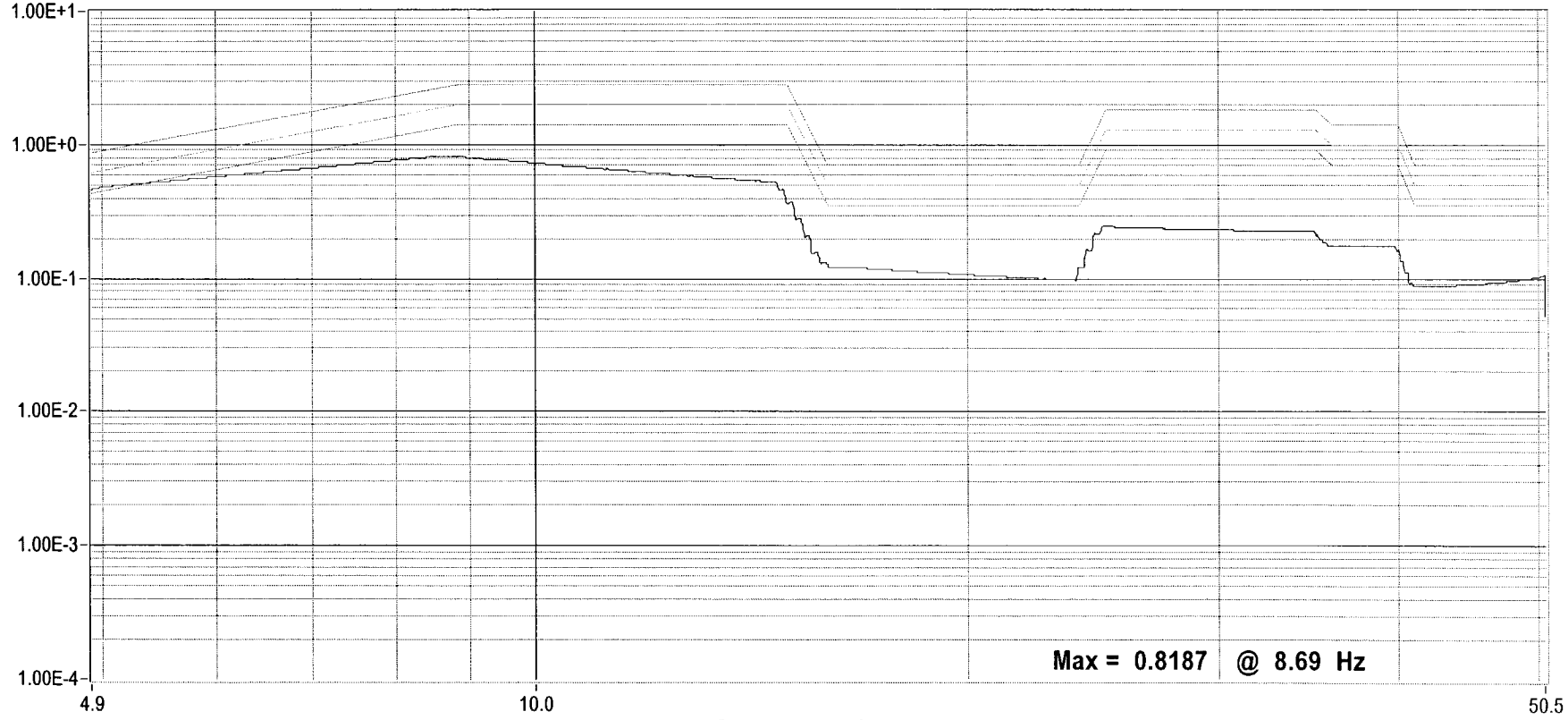
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 31 **Node Number:** 0031

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

DRIVE

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

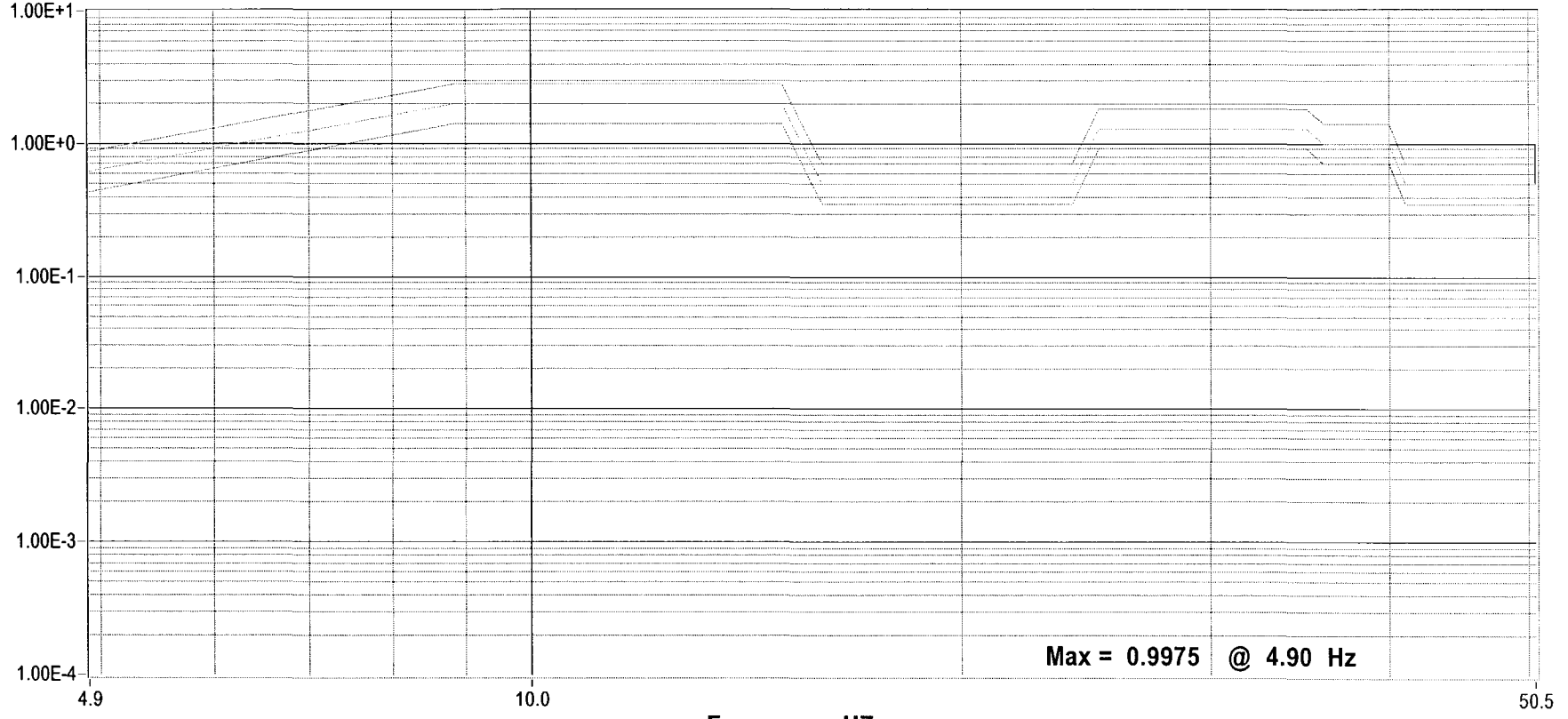
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 32 **Node Number:** 0032

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A1X: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

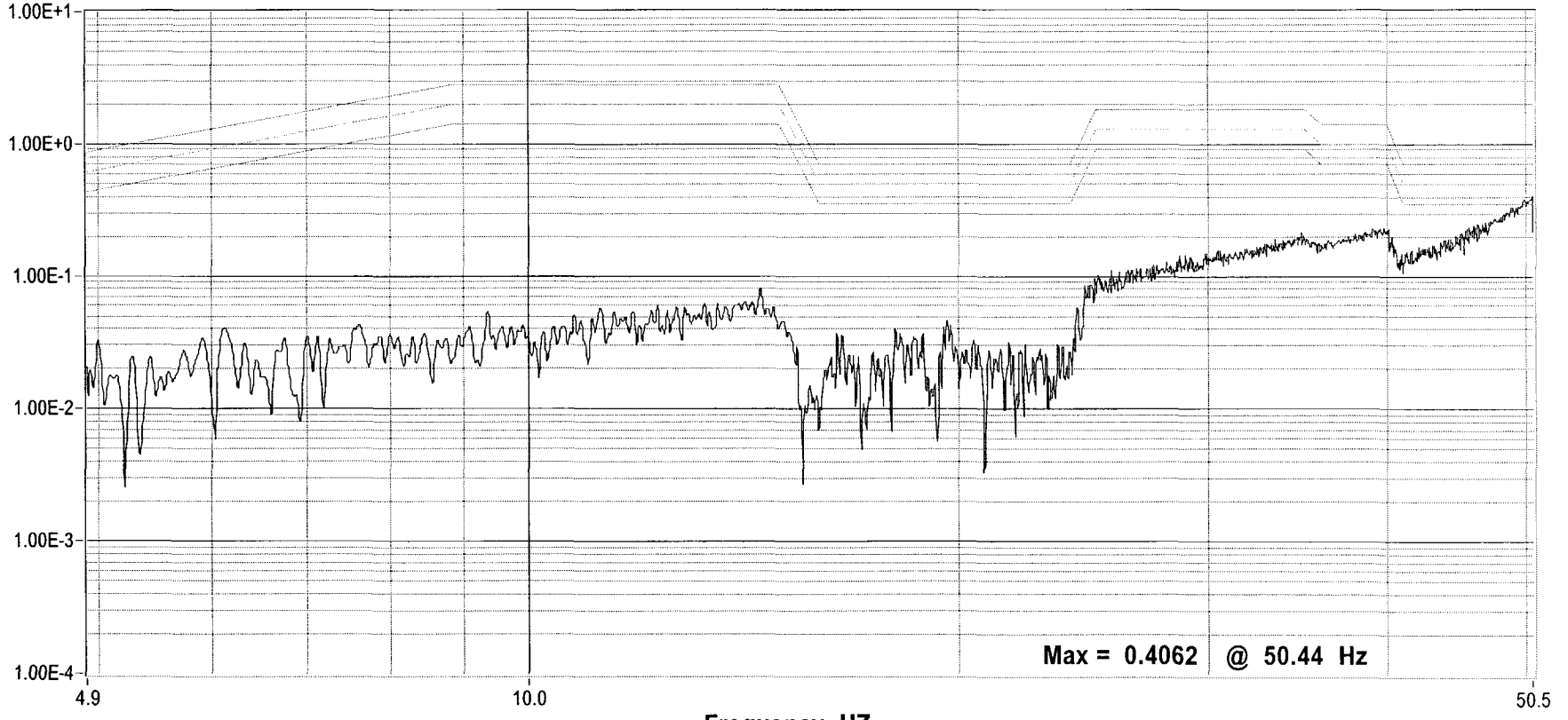
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 33 **Node Number:** 0033

Channel Description: BOX 3 CH 1 SN=AE71-1

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

A1X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A1Y: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

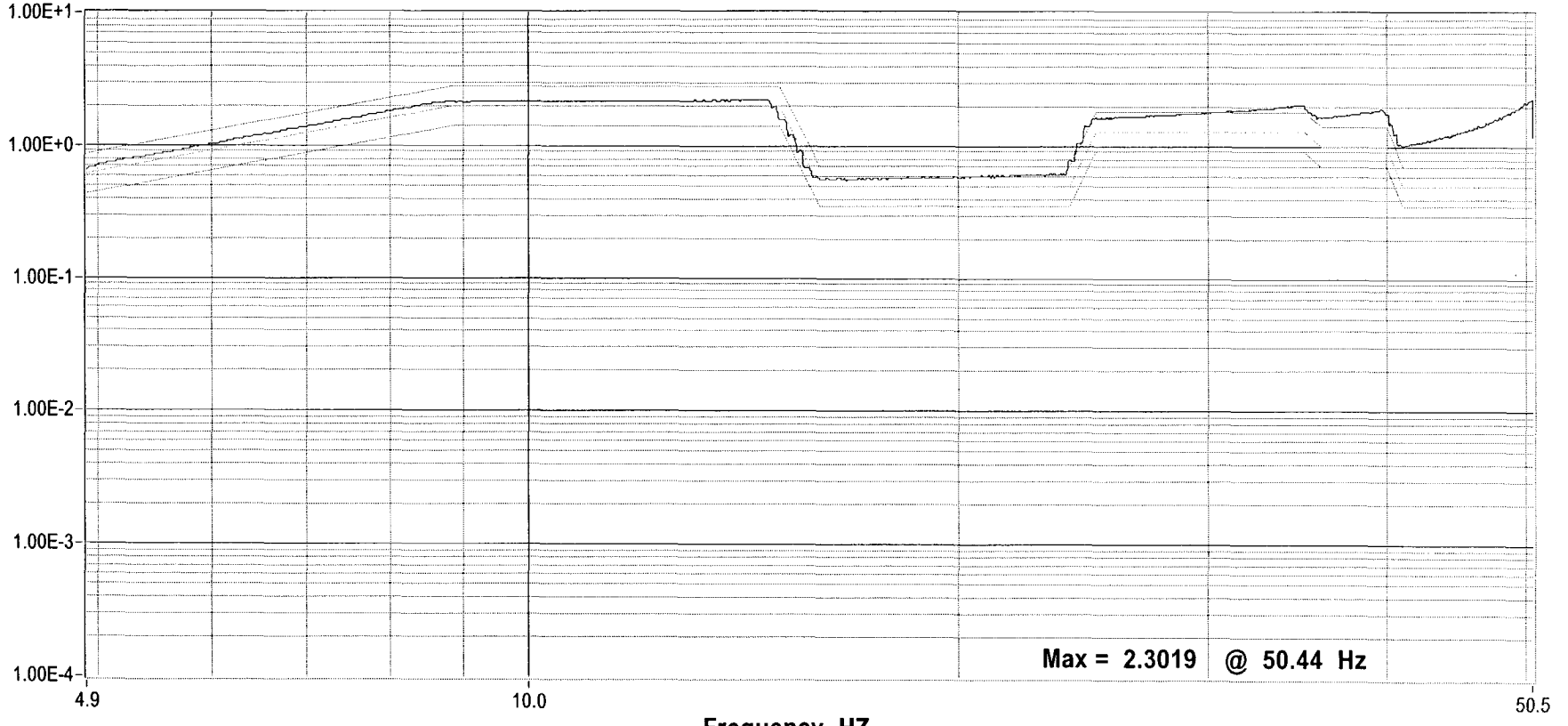
Channel #: 34 **Node Number:** 0034

Channel Description: BOX 3 CH 2 SN=AC40

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

A1Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A1Z: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

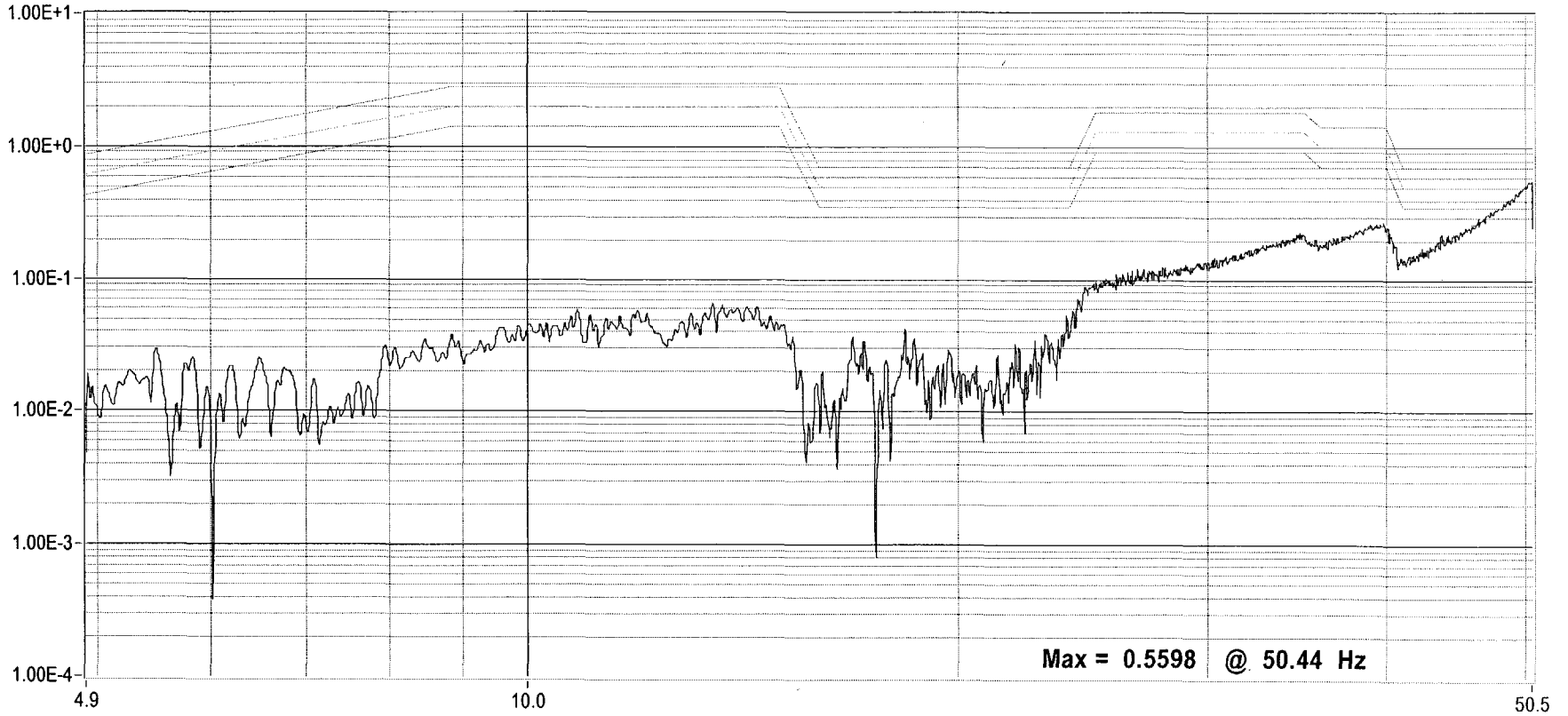
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 35 **Node Number:** 0035

Channel Description: BOX 3 CH 3 SN=AD72

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:42 PM

A1Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A1RX: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

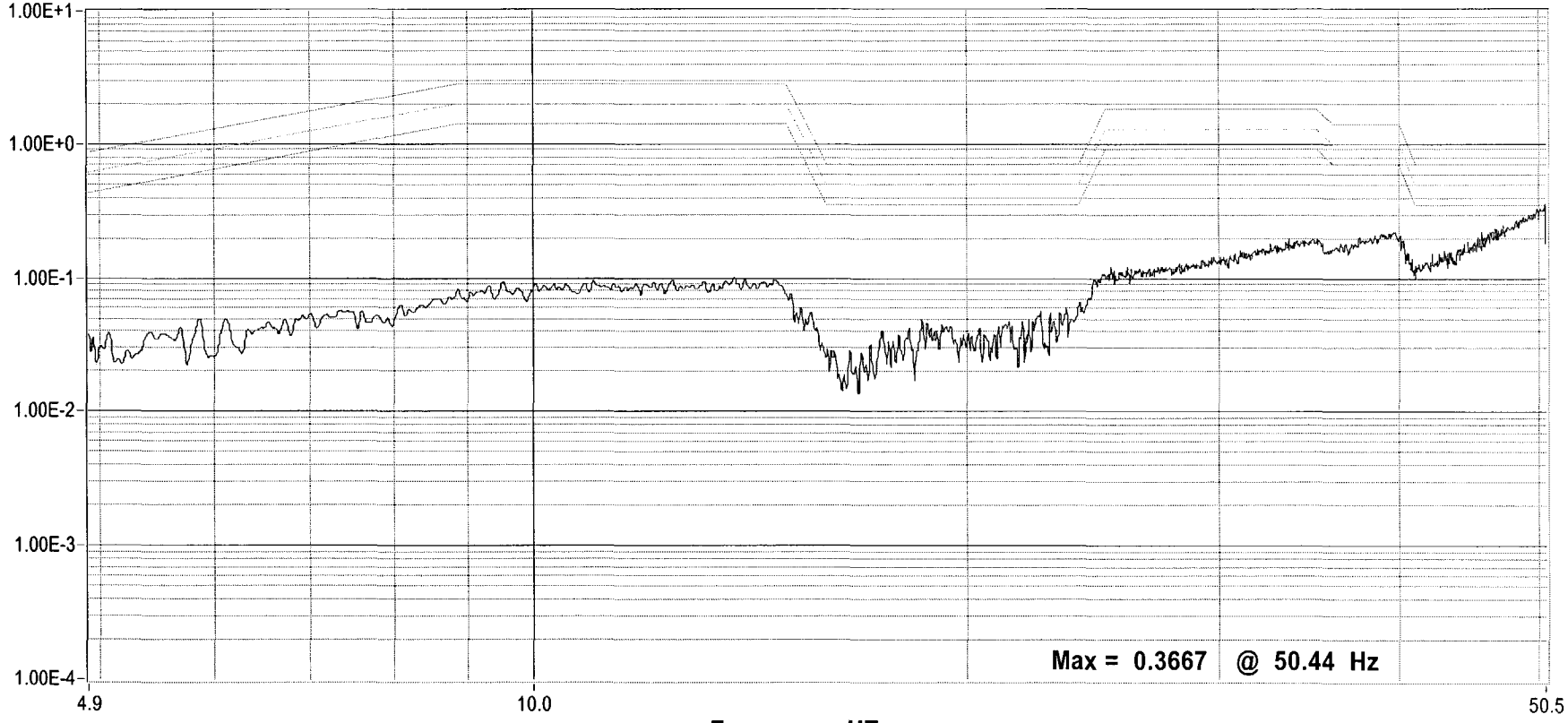
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 36 **Node Number:** 0036

Channel Description: BOX 3 CH 4 SN=AF35

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A1RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A1RY: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

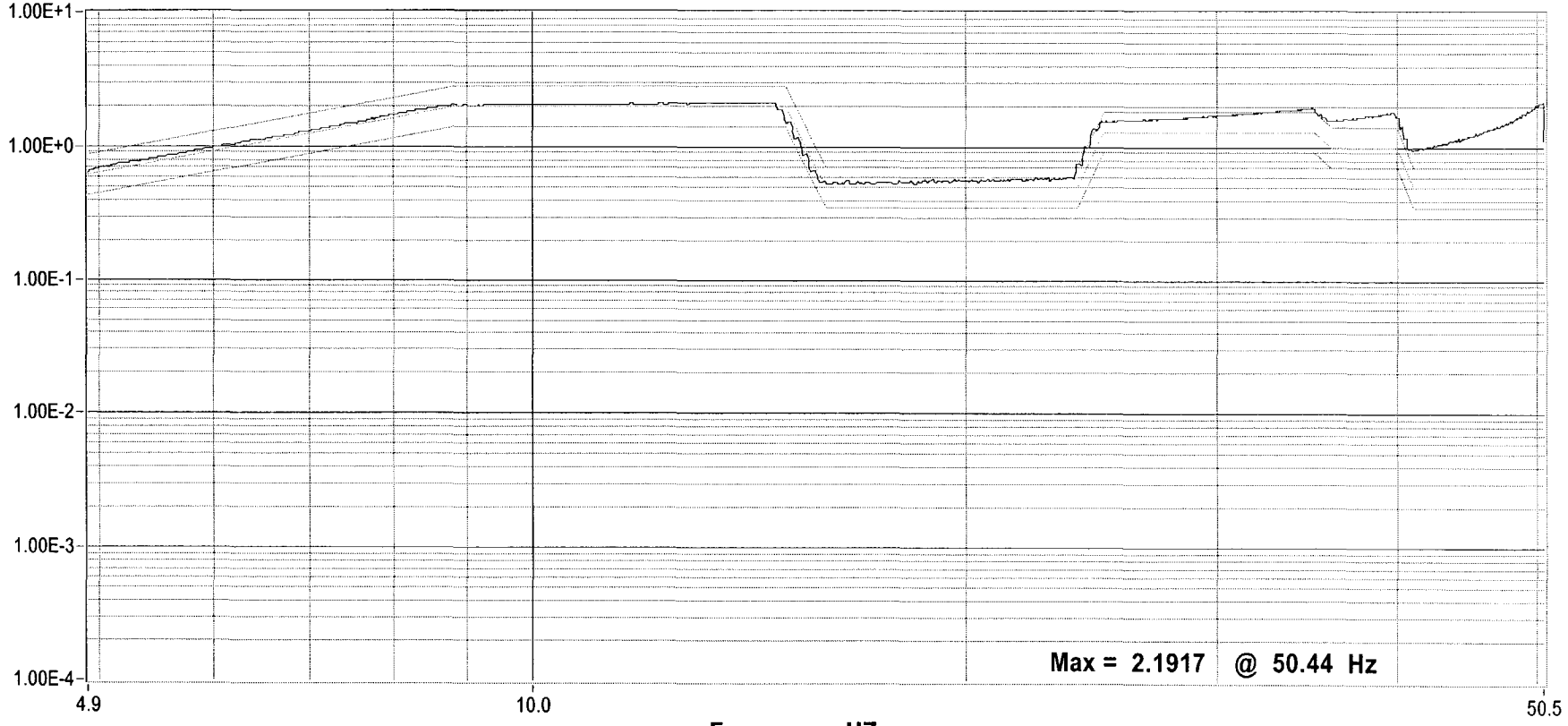
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 37 **Node Number:** 0037

Channel Description: BOX 3 CH 5 SN=AB88

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A1RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A1RZ: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

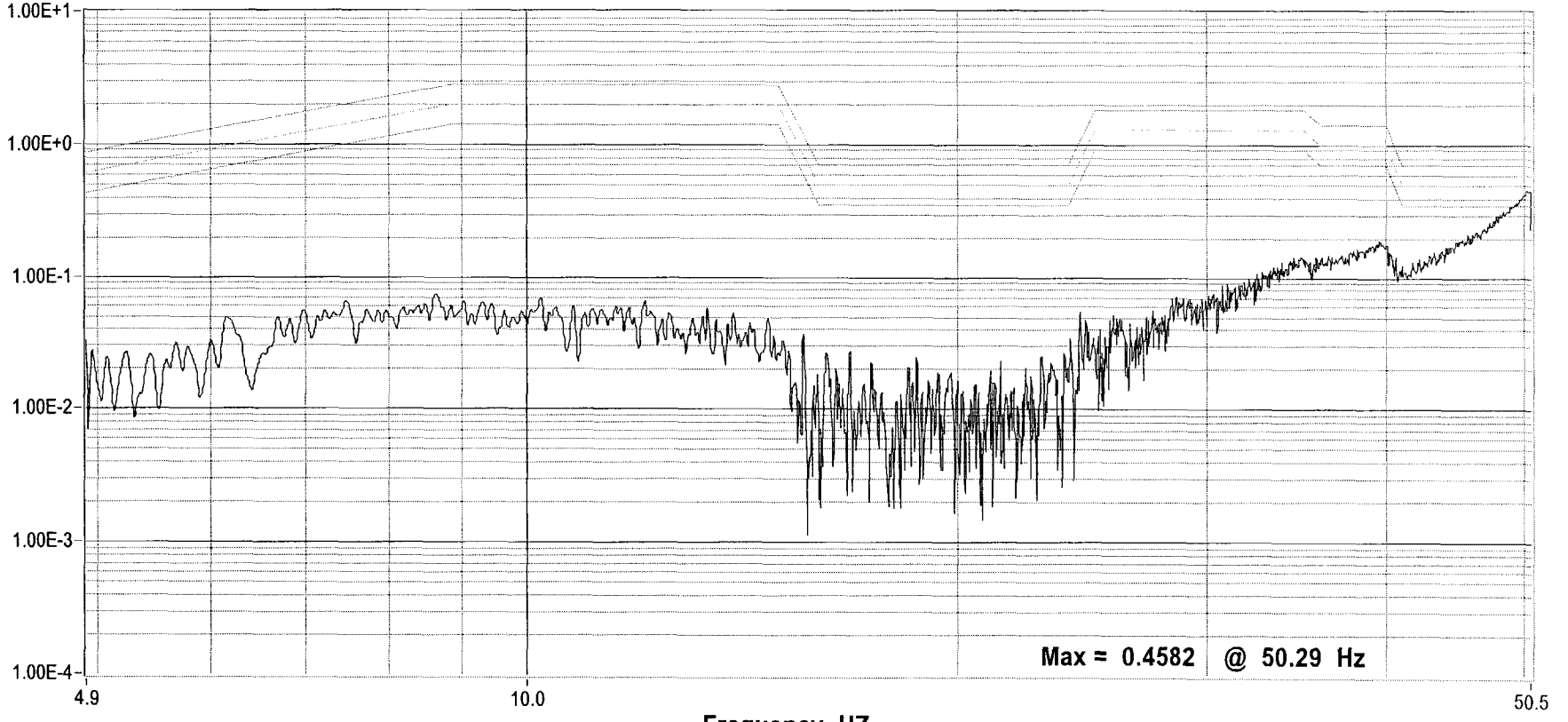
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 38 **Node Number:** 0038

Channel Description: BOX 3 CH 6 SN=AG51

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A1RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 39 **Node Number:** 0039

Channel Description: BOX 3 CH 7 SN=AK10

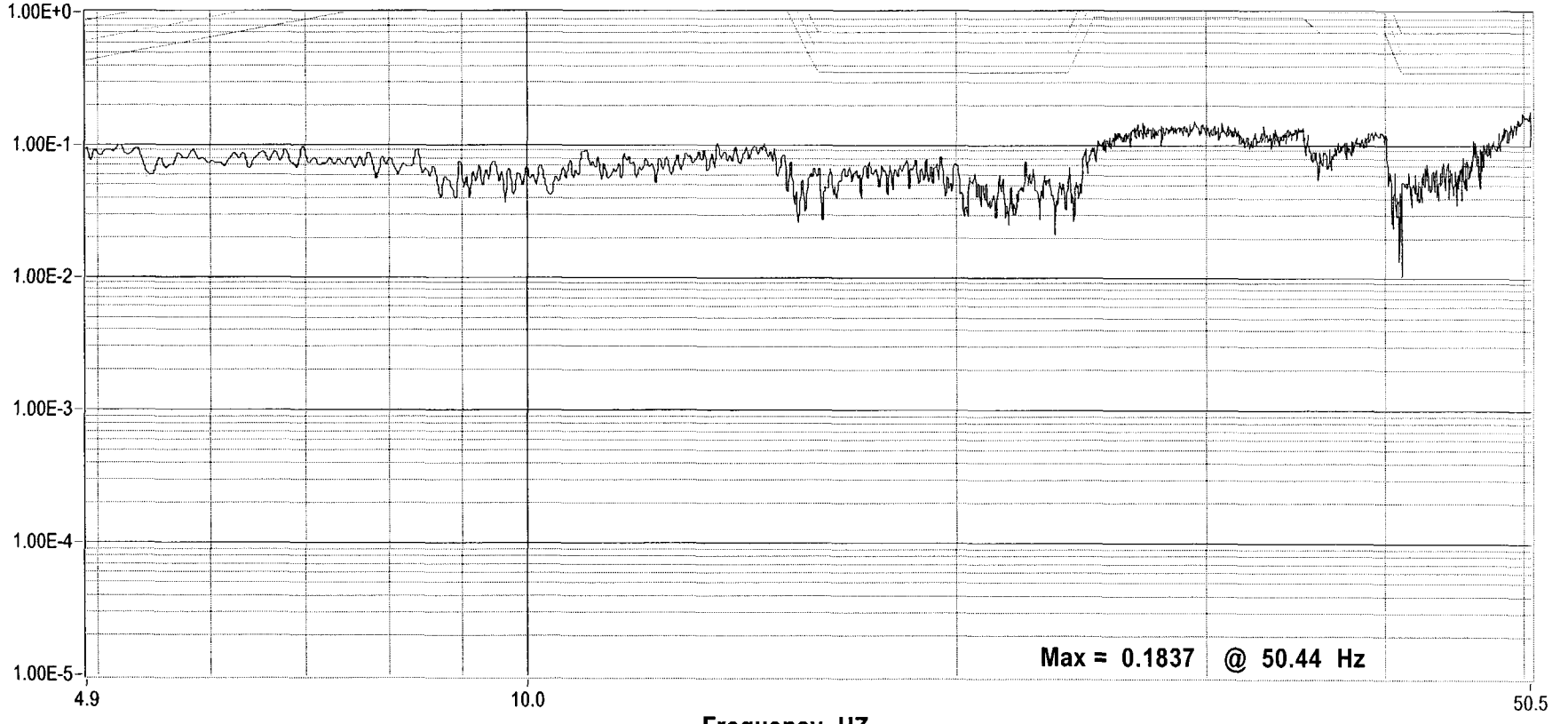
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A2X: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A2X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 40 **Node Number:** 0040

Channel Description: BOX 3 CH 8 SN=AB06

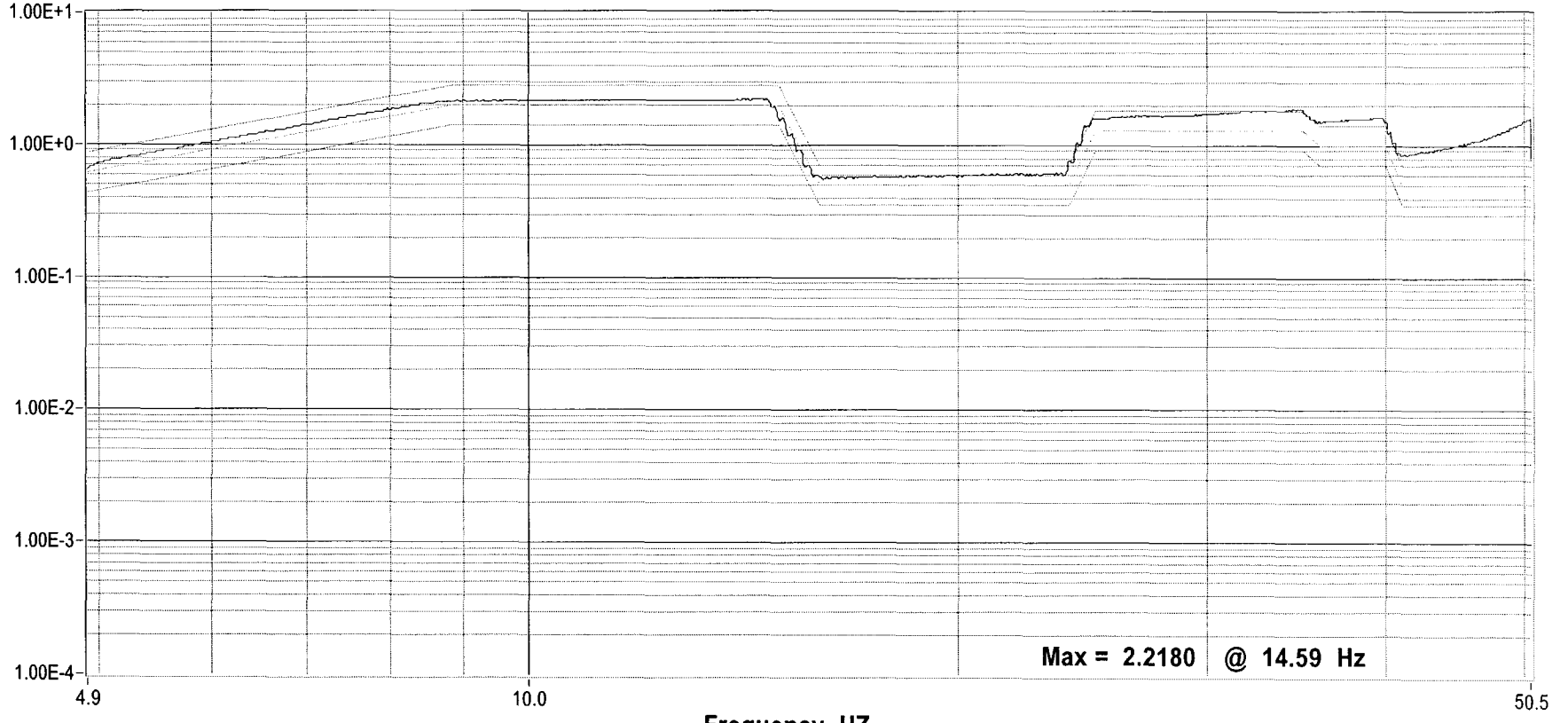
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A2Y: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A2Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 41 **Node Number:** 0041

Channel Description: BOX 3 CH 9 SN=AF28

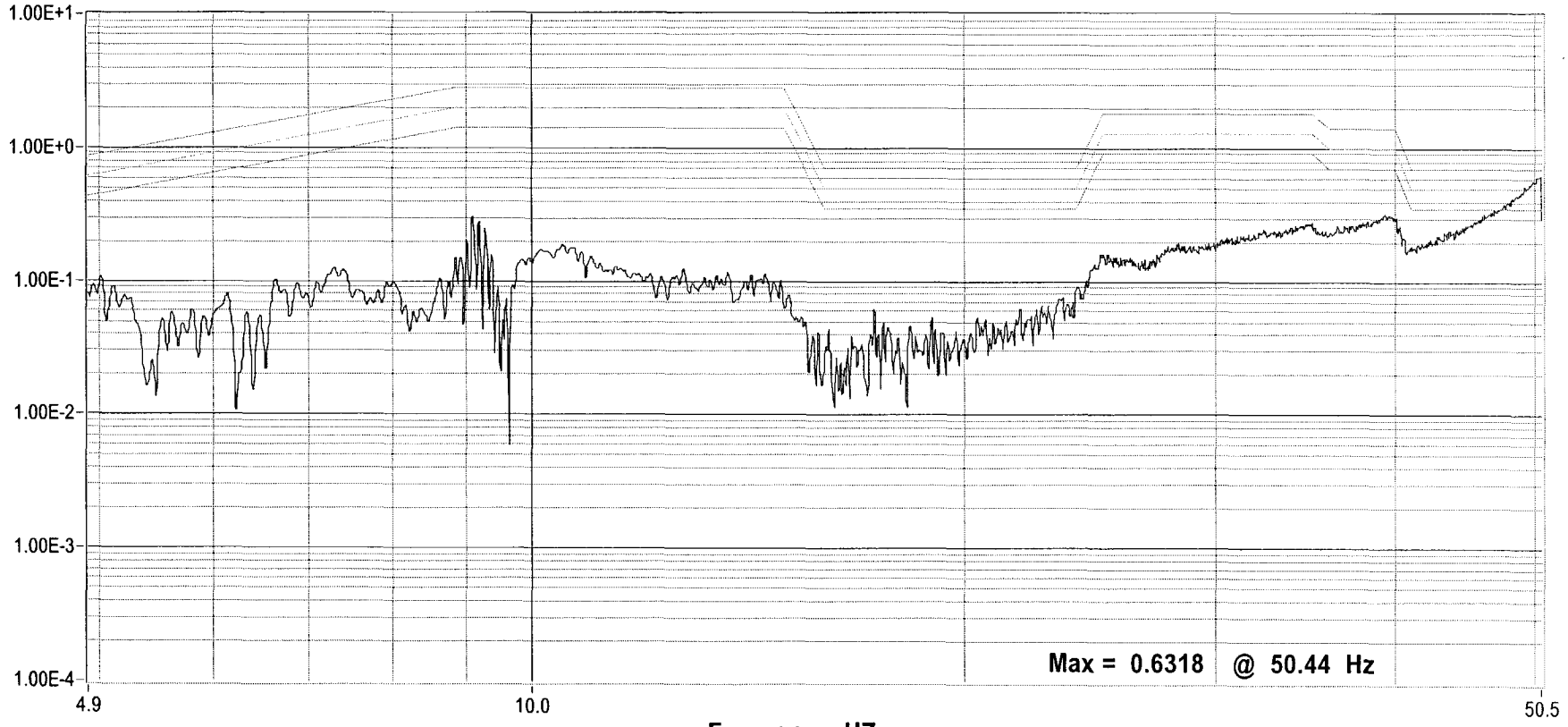
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A2Z: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A2Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A2RX: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

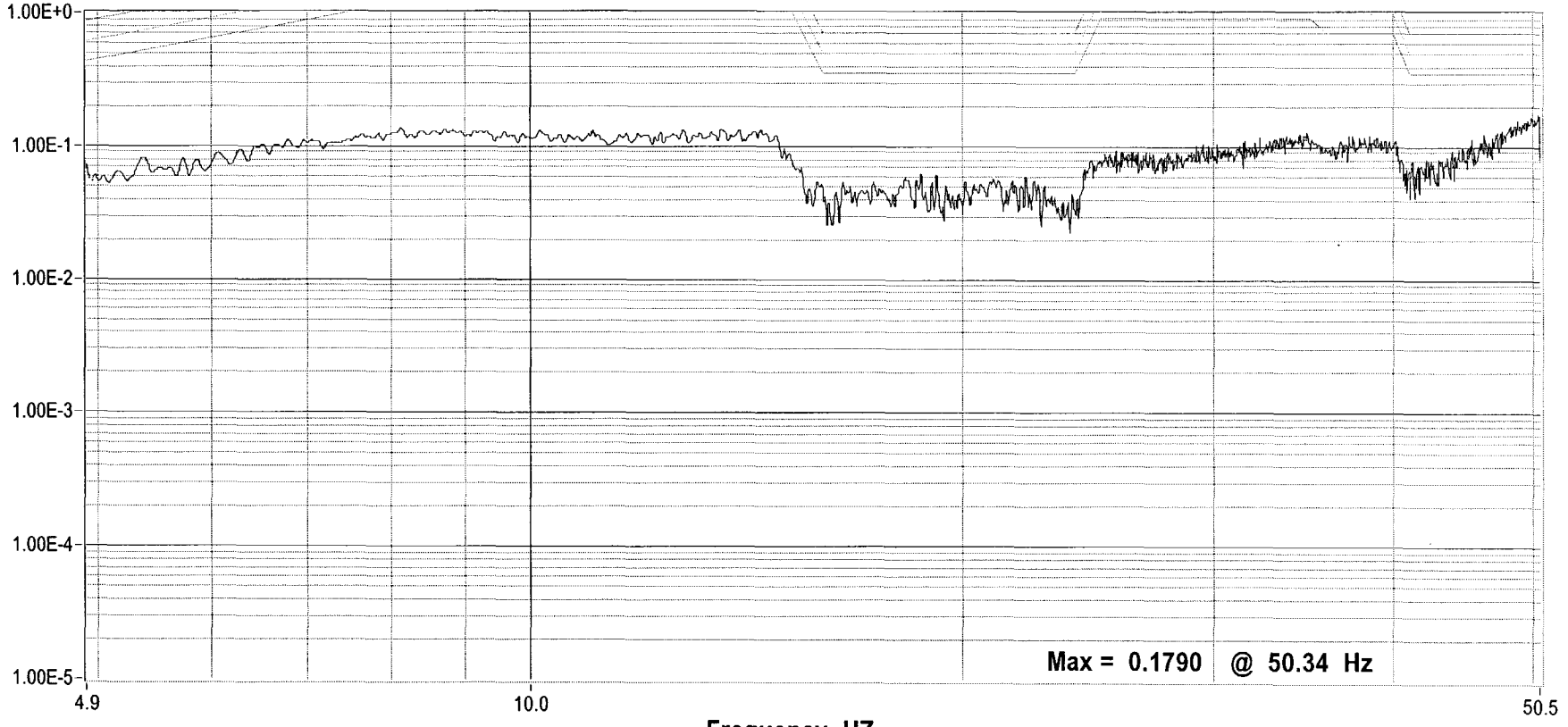
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 42 **Node Number:** 0042

Channel Description: BOX 3 CH 10 SN=AJ30

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A2RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A2RY: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

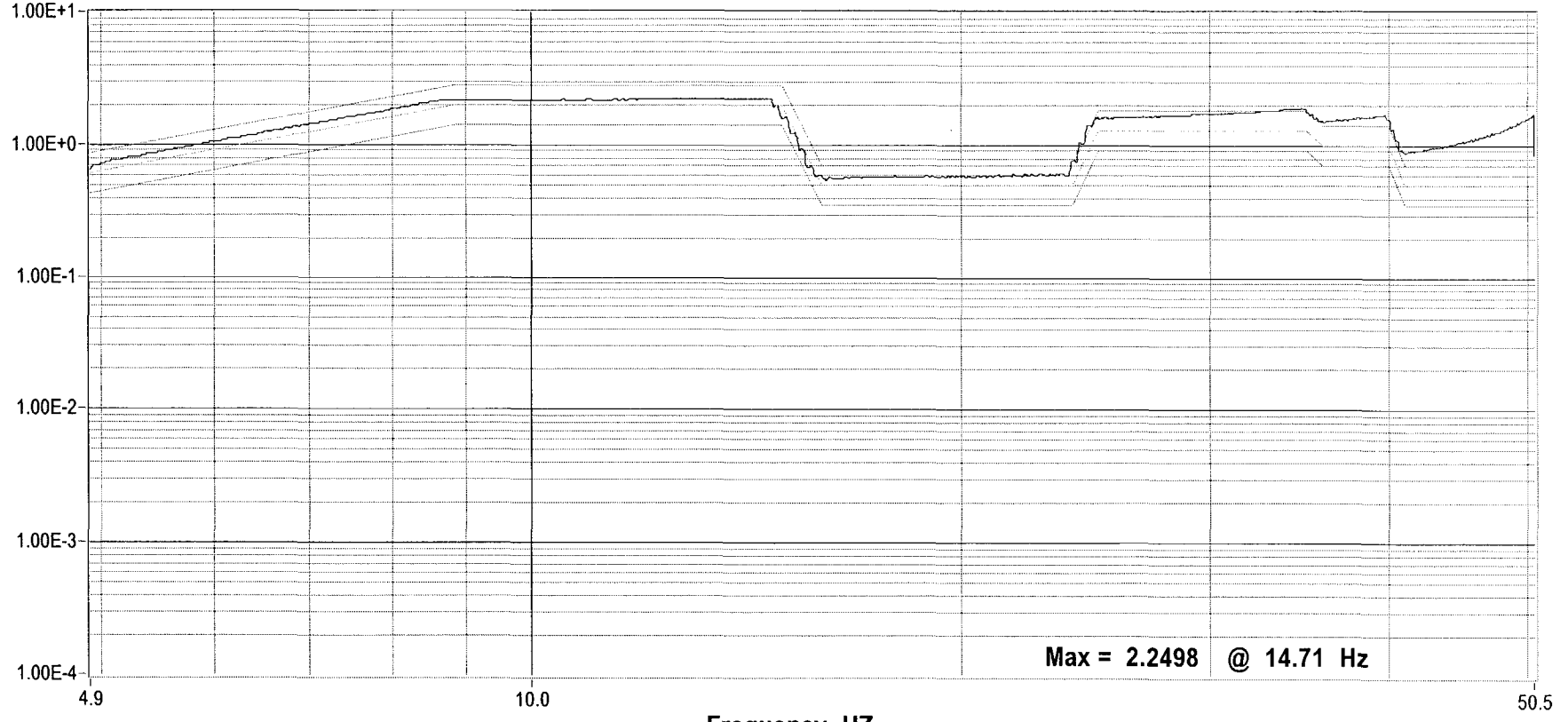
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 43 **Node Number:** 0043

Channel Description: BOX 3 CH 11 SN=AE60

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:43 PM

A2RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A2RZ: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

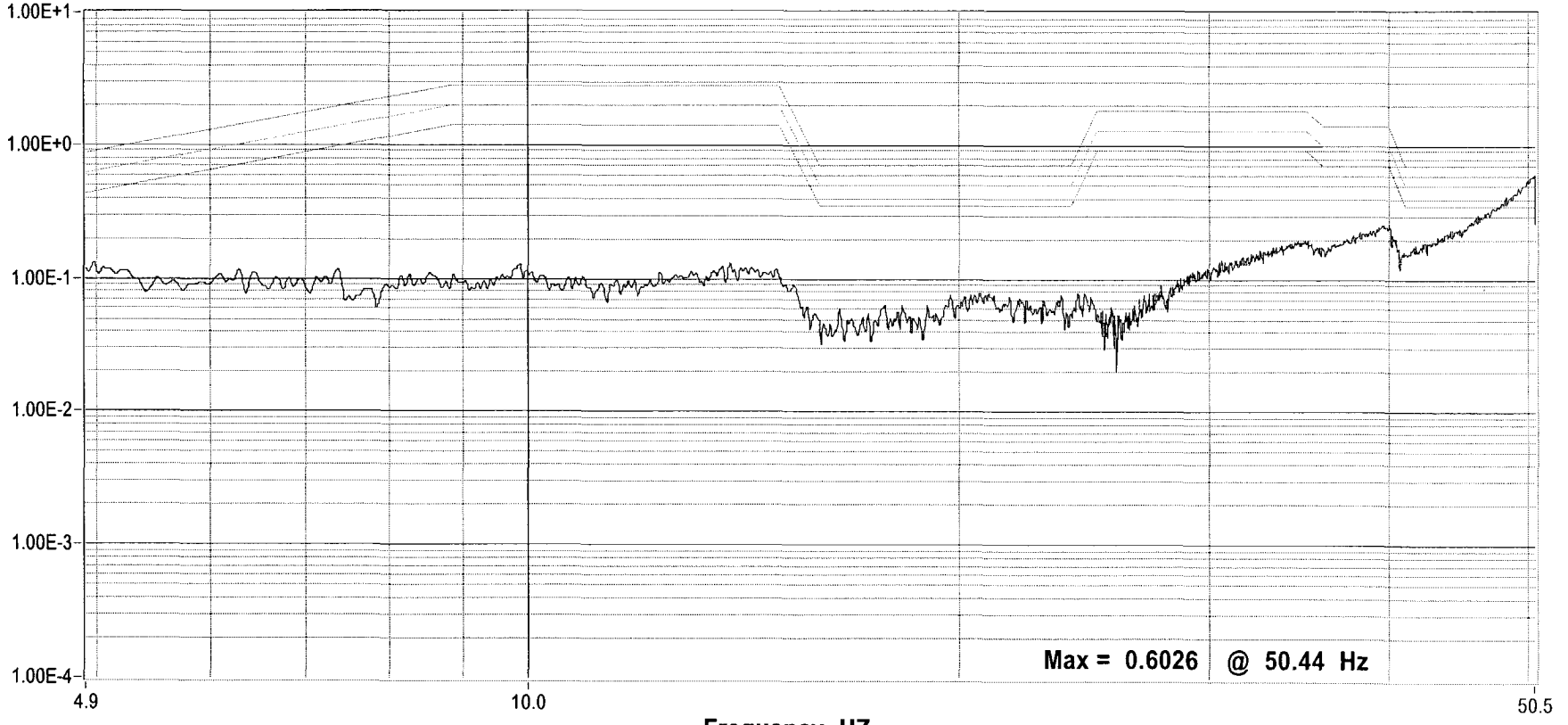
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 44 **Node Number:** 0044

Channel Description: BOX 3 CH 12 SN=AG01

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A2RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

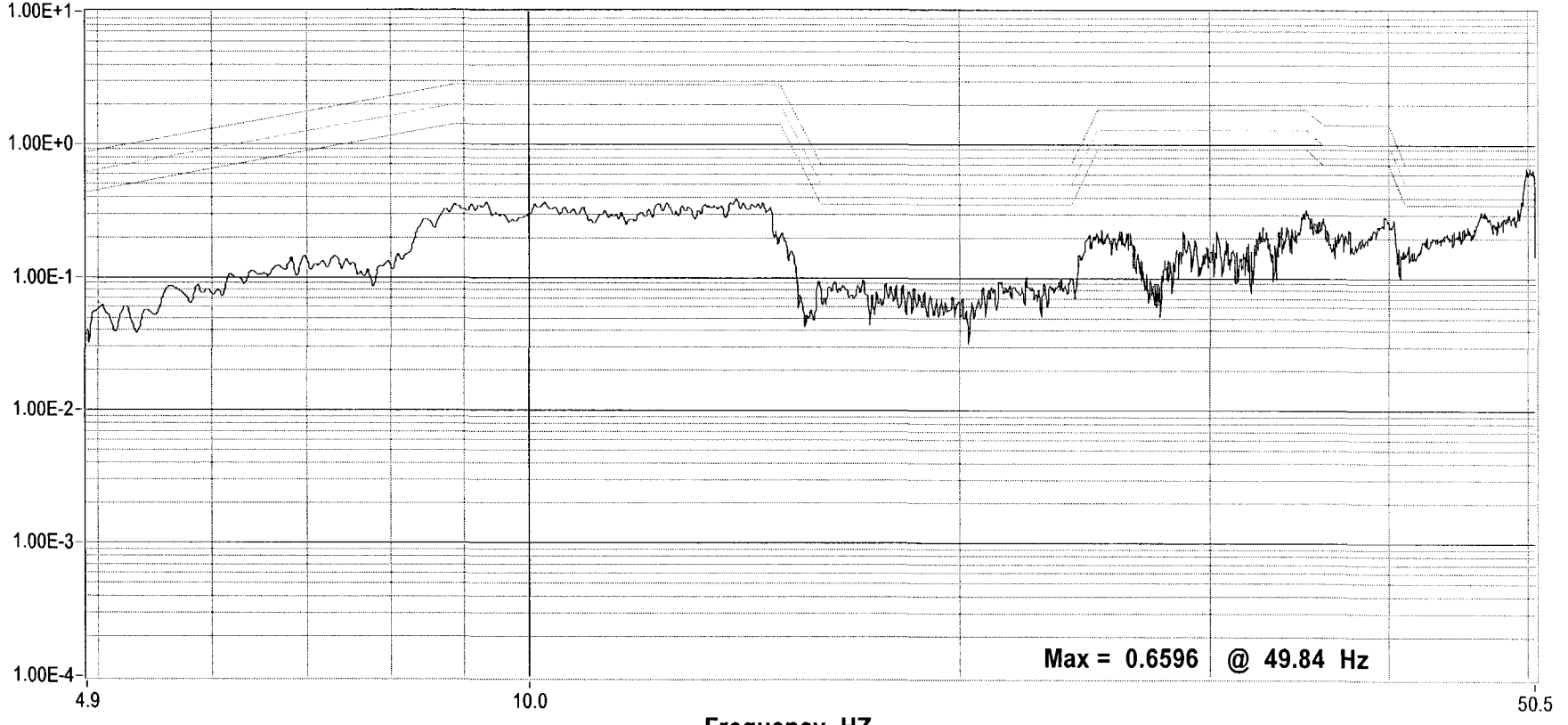
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A3X: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 46 **Node Number:** 0046

Channel Description: BOX 3 CH 14 SN=AG02

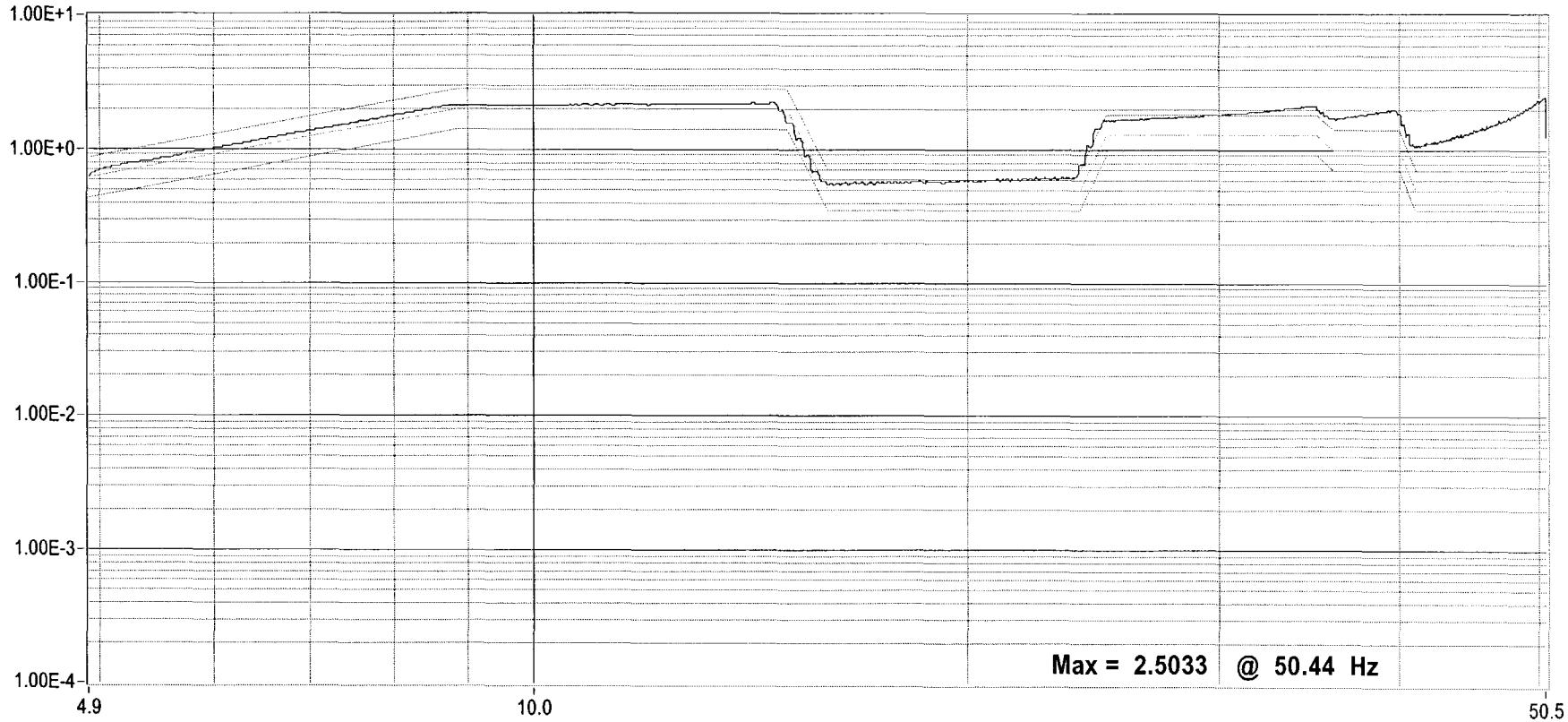
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A3Y: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A3Y: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 47 **Node Number:** 0047

Channel Description: BOX 3 CH 15 SN=BC12

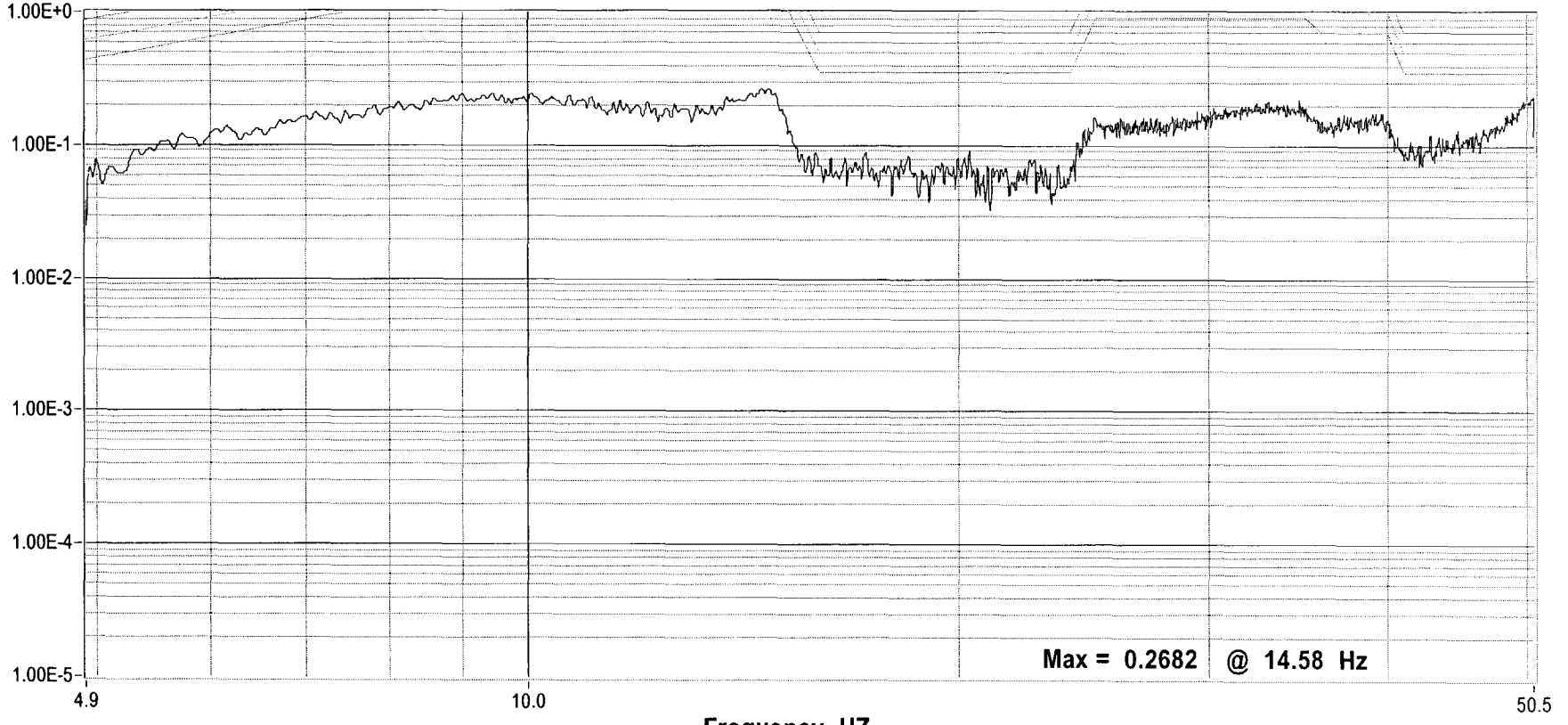
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A3Z: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A3Z: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A3RX: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

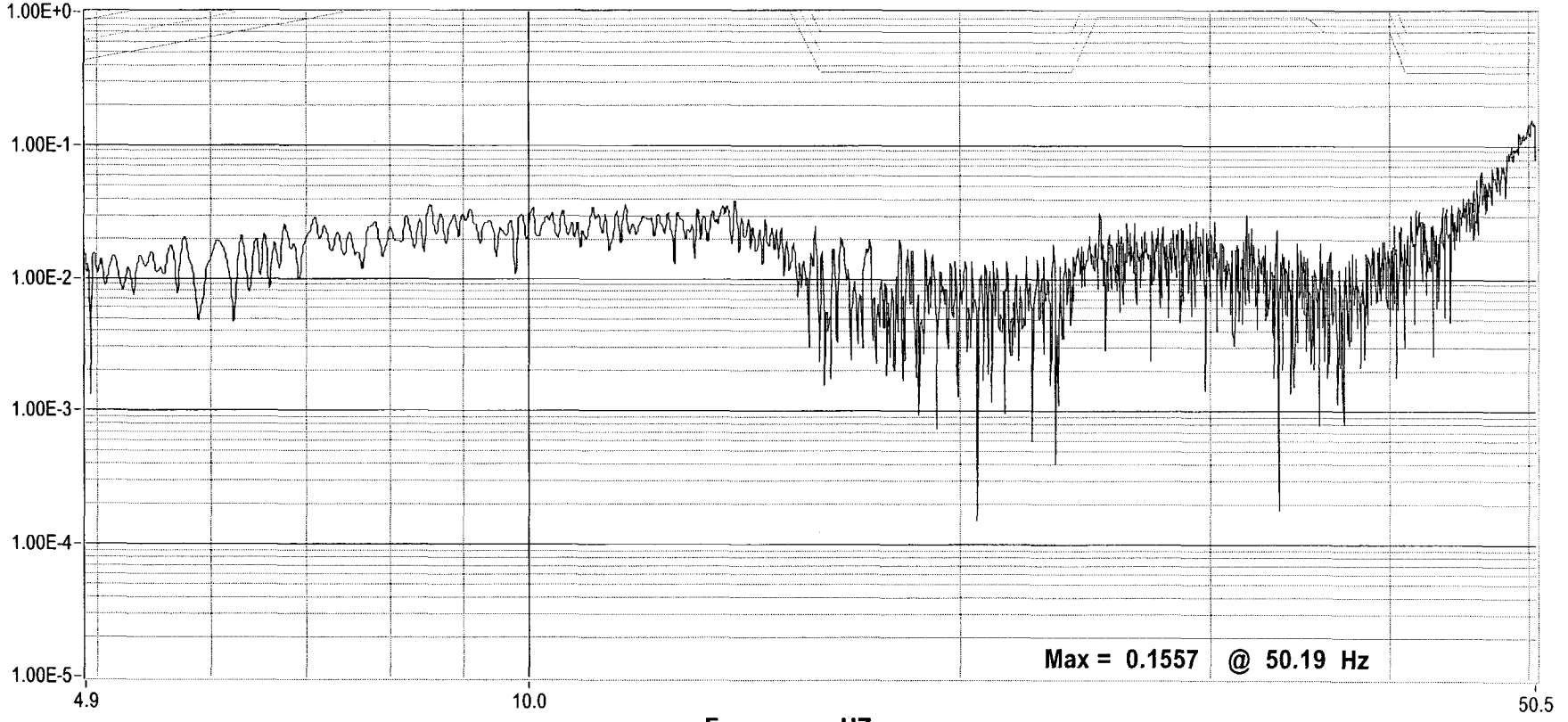
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 48 **Node Number:** 0048

Channel Description: BOX 3 CH 16 SN=AE43

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A3RX: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A3RY: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

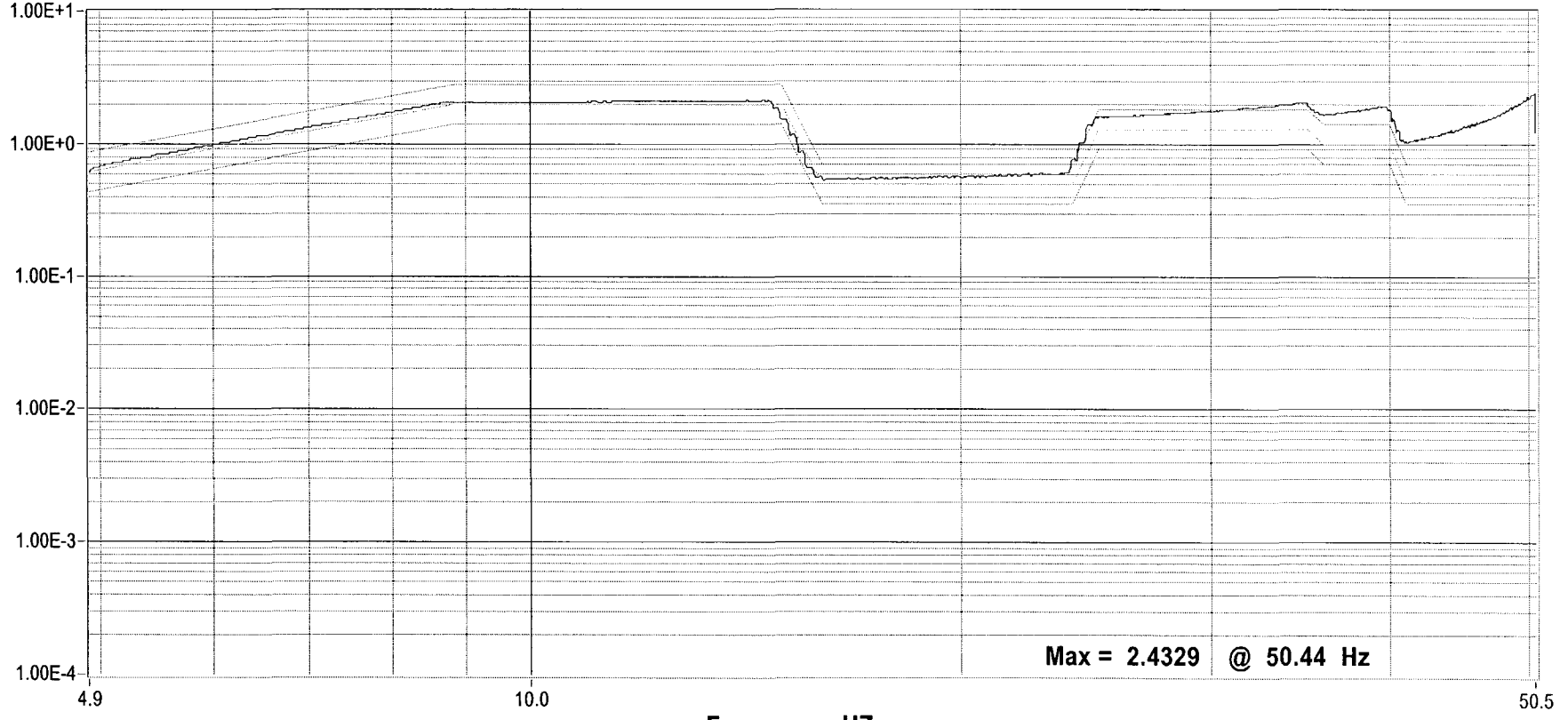
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 49 **Node Number:** 0049

Channel Description: BOX 4 CH 1 SN=AF57

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A3RY: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A3RZ: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

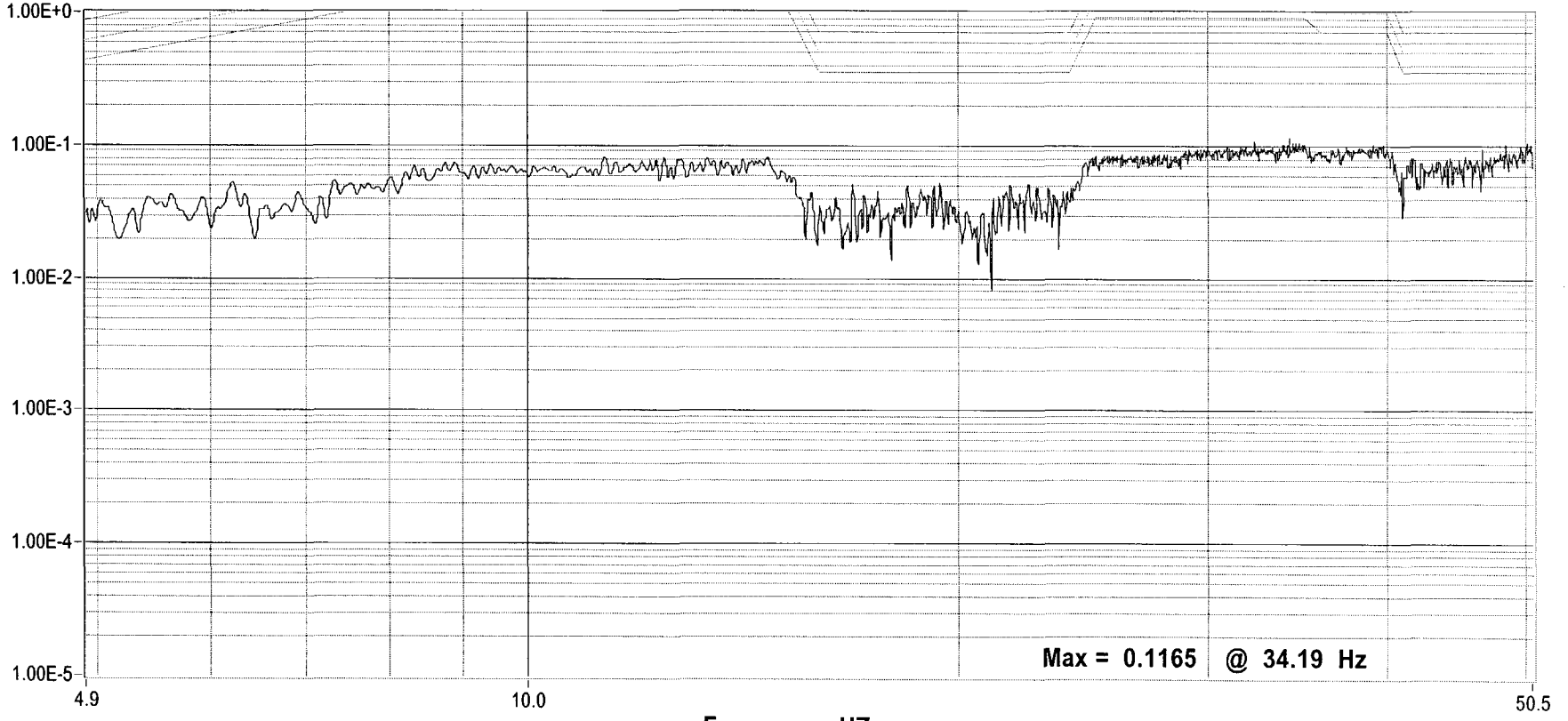
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 50 **Node Number:** 0050

Channel Description: BOX 4 CH 2 SN=AB65

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A3RZ: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A4X: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

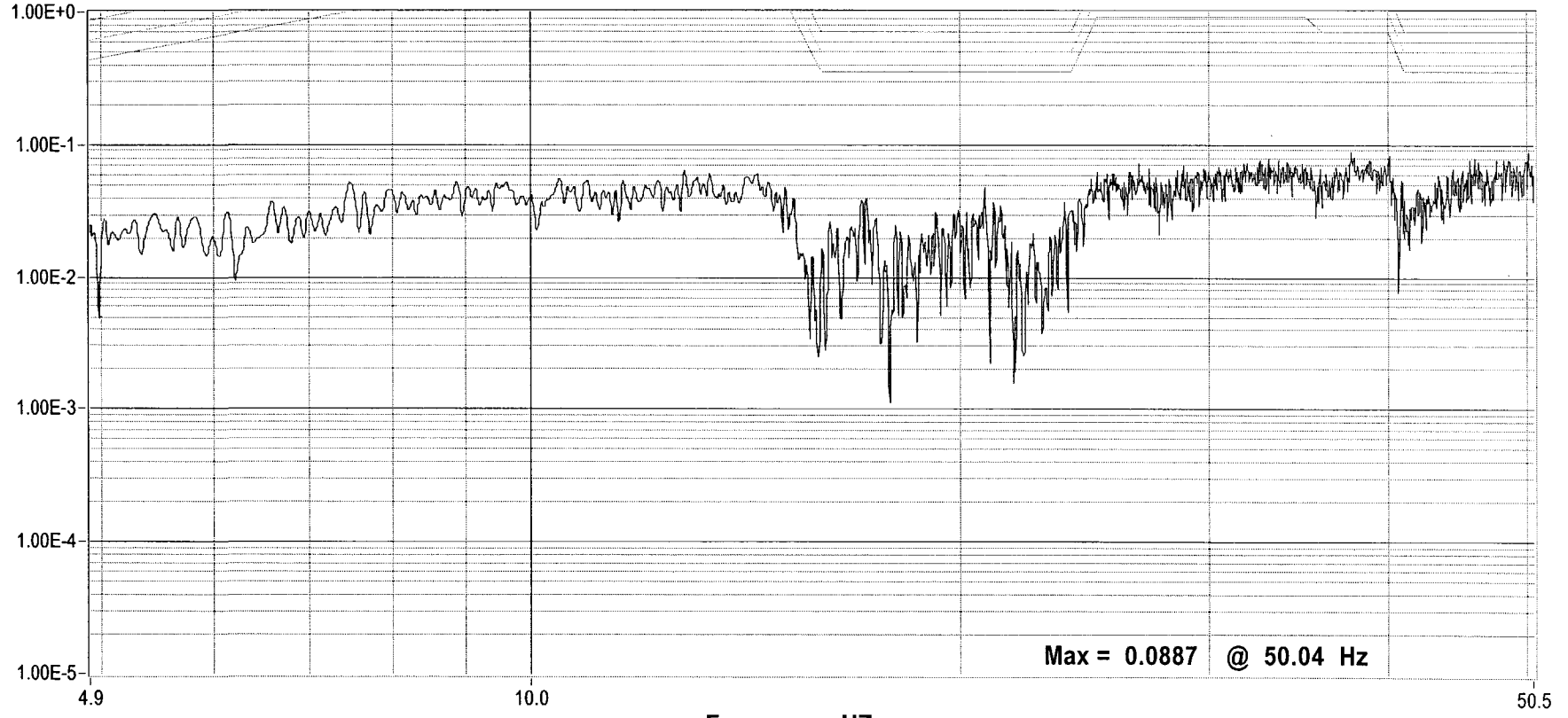
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 51 **Node Number:** 0051

Channel Description: BOX 4 CH 3 SN=AH55

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A4X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 52 **Node Number:** 0052

Channel Description: BOX 4 CH 4 SN=AJ95

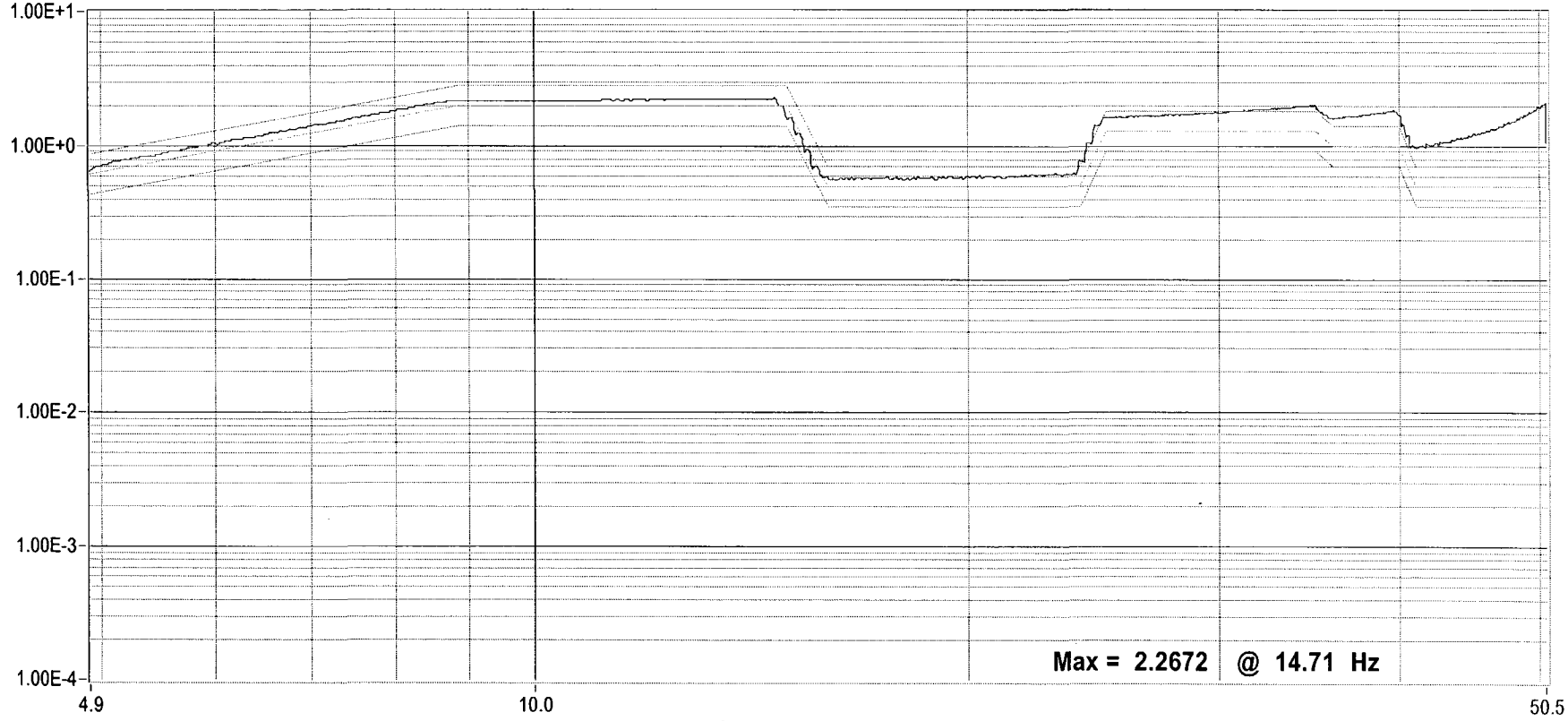
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A4Y: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:44 PM

A4Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 53 **Node Number:** 0053

Channel Description: BOX 4 CH 5 SN=AB55

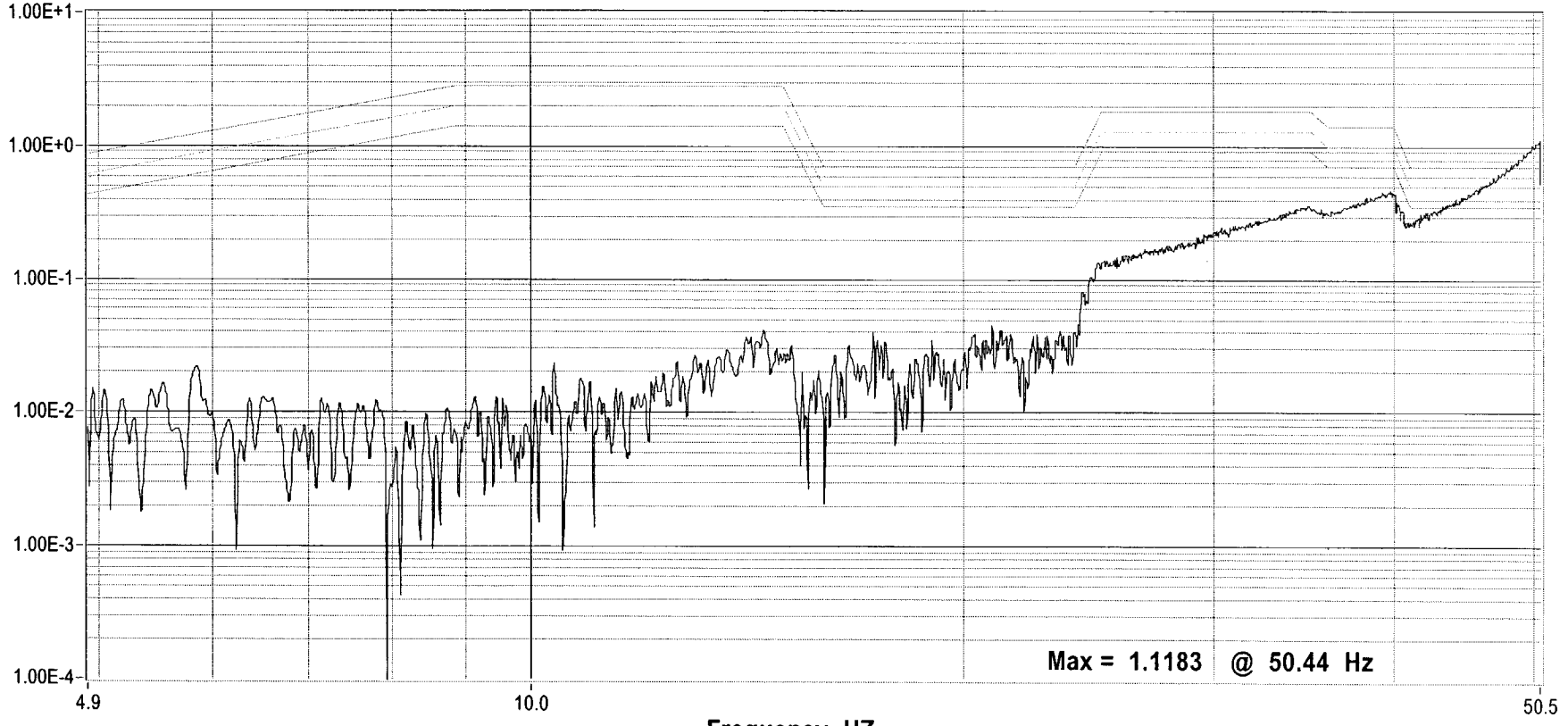
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A4Z: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:45 PM

A4Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 54 **Node Number:** 0054

Channel Description: BOX 4 CH 6 SN=AF10

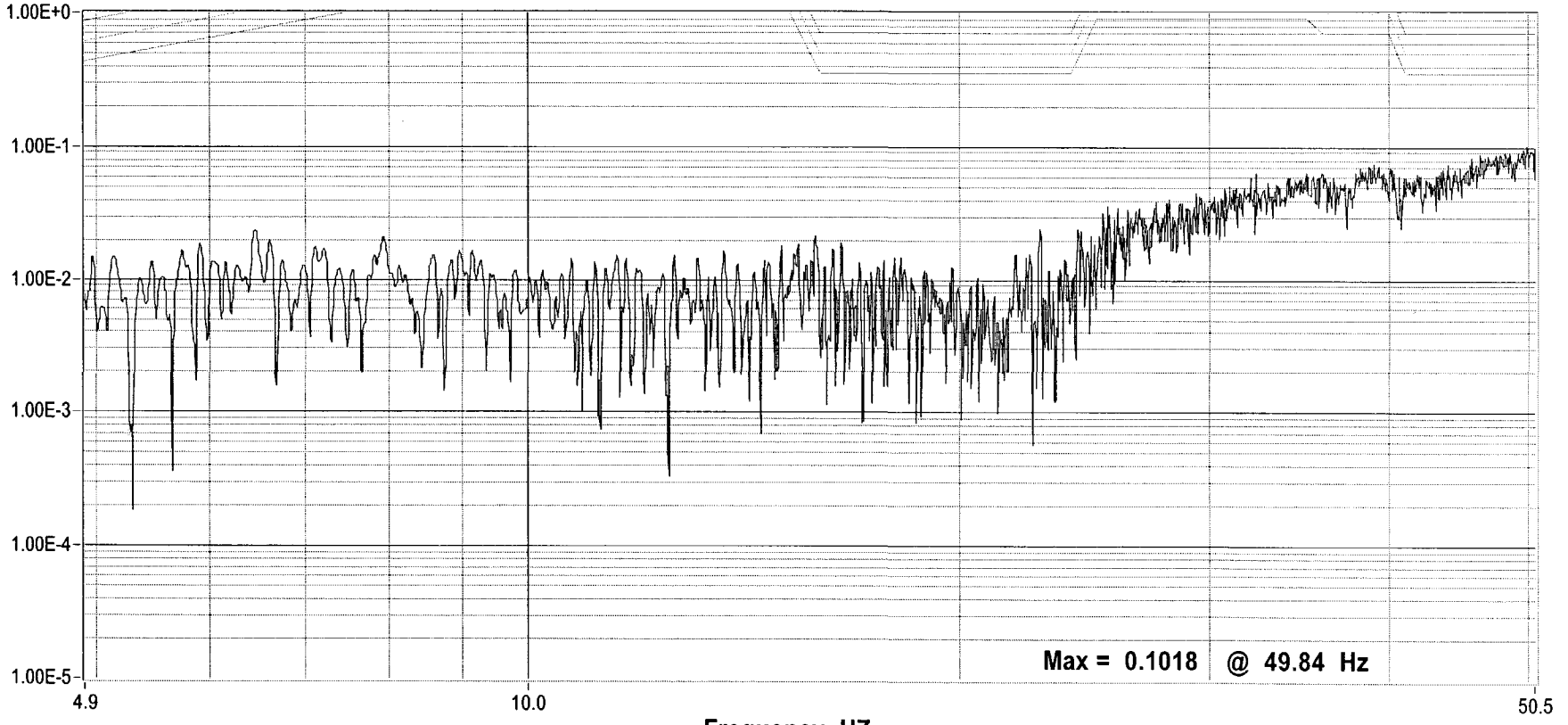
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A4RX: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:45 PM

A4RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

Channel #: 55 **Node Number:** 0055

Channel Description: BOX 4 CH 7 SN=AF56

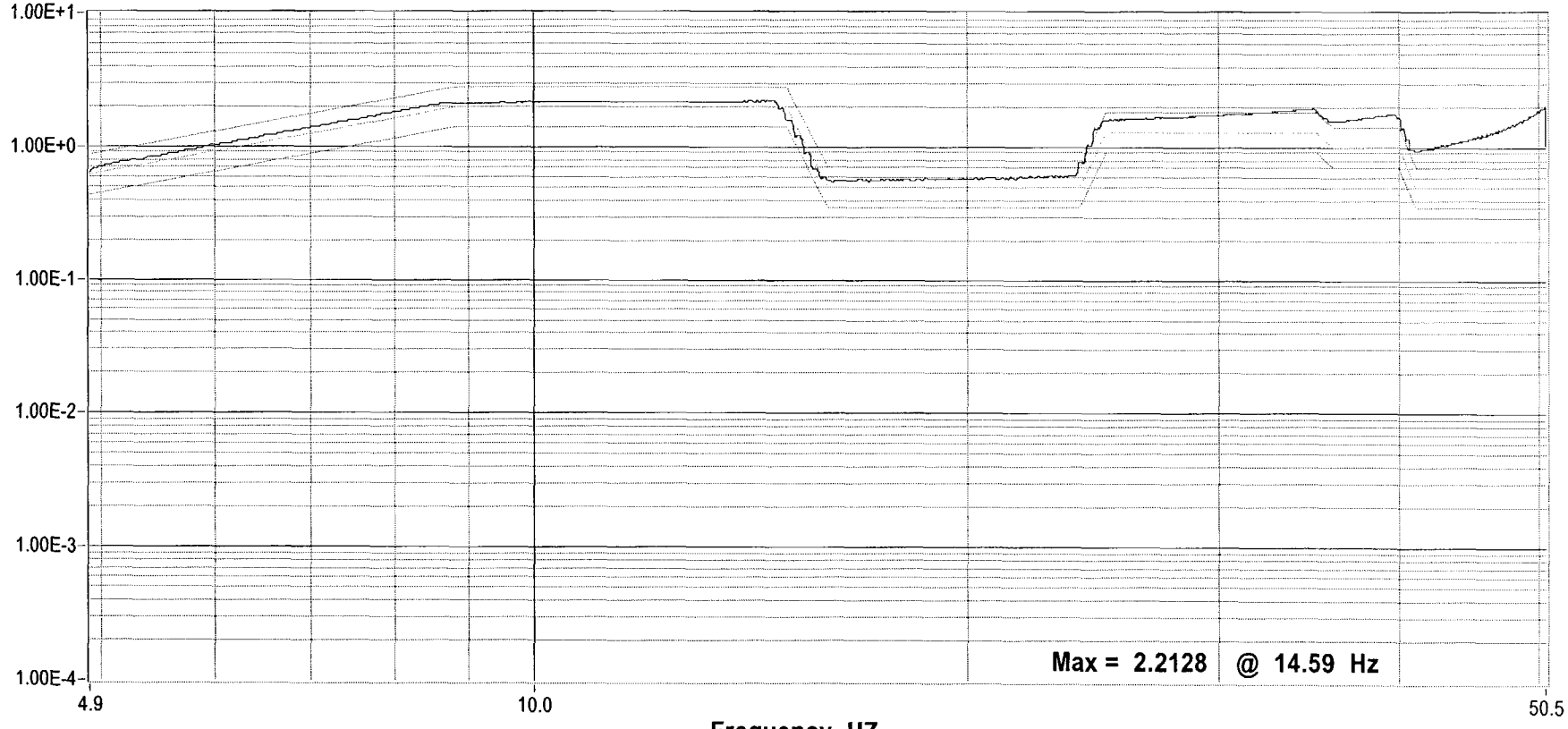
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 23:27:45

A4RY: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:45 PM

A4RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

A4RZ: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

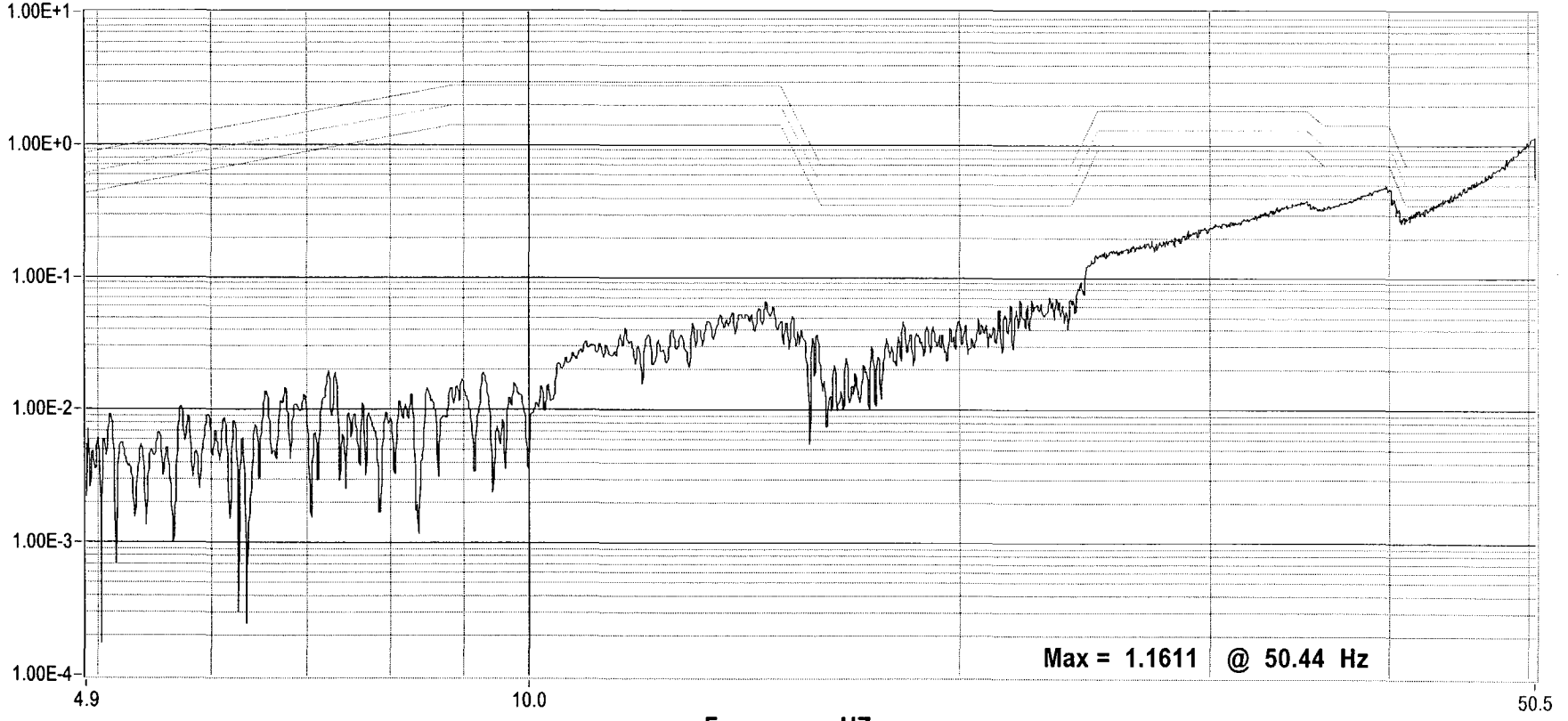
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 56 **Node Number:** 0056

Channel Description: BOX 4 CH 8 SN=AD53

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:45 PM

A4RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 23:27:45

F1: FLY AWAY

Test Type: Sine

Test: HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Specimen HIRDLS VIBRATION TEST

Test File Number: 062416

Part Number/ID: Y4011

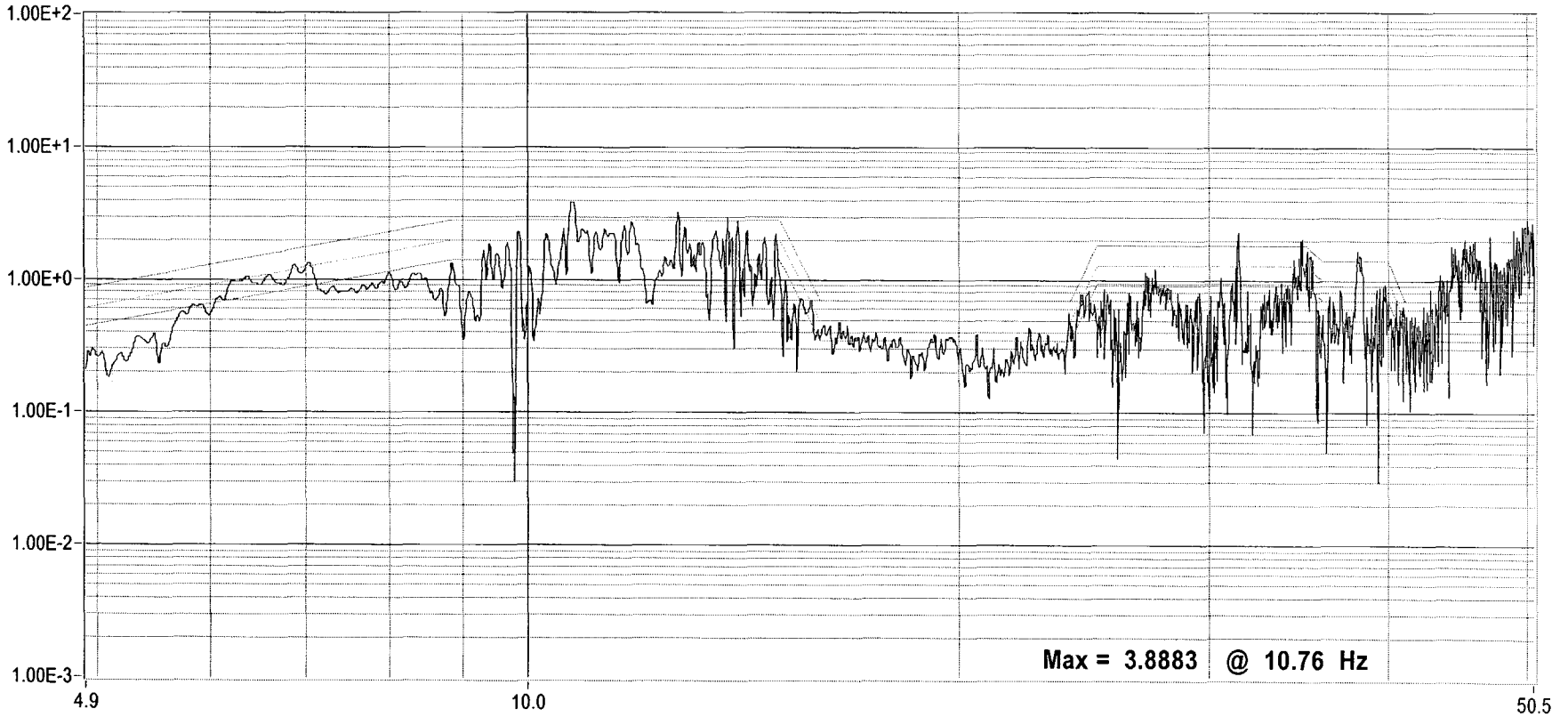
Test Description:
HIRDLS VIBRATION TEST: Y-AXIS SHAPE SINE

Channel #: 57 **Node Number:** 0057

Channel Description: BOX 4 CH 9 SN=BF27

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 11:45 PM

F1: FLY AWAY

LOCKHEED MARTIN MISSILES & SPACE

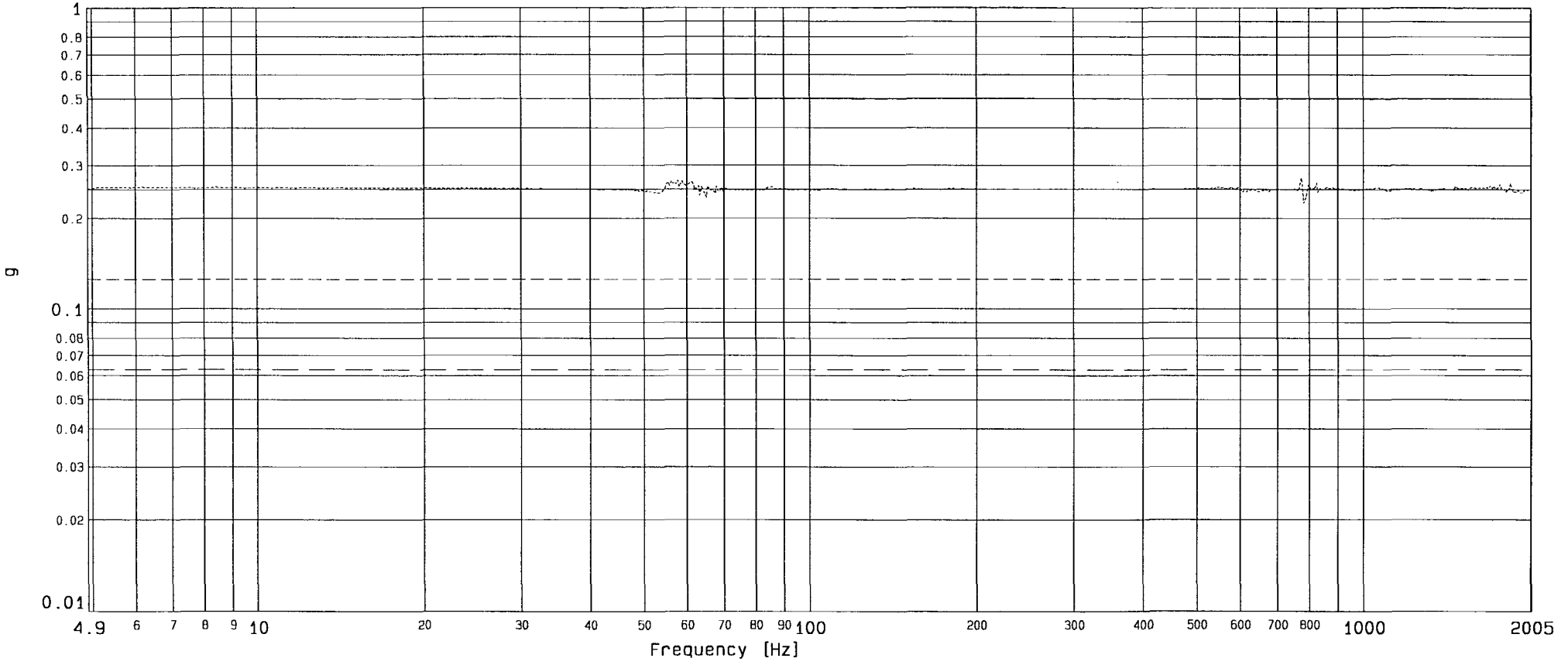
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 10
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

LOCKHEED MARTIN MISSILES & SPACE

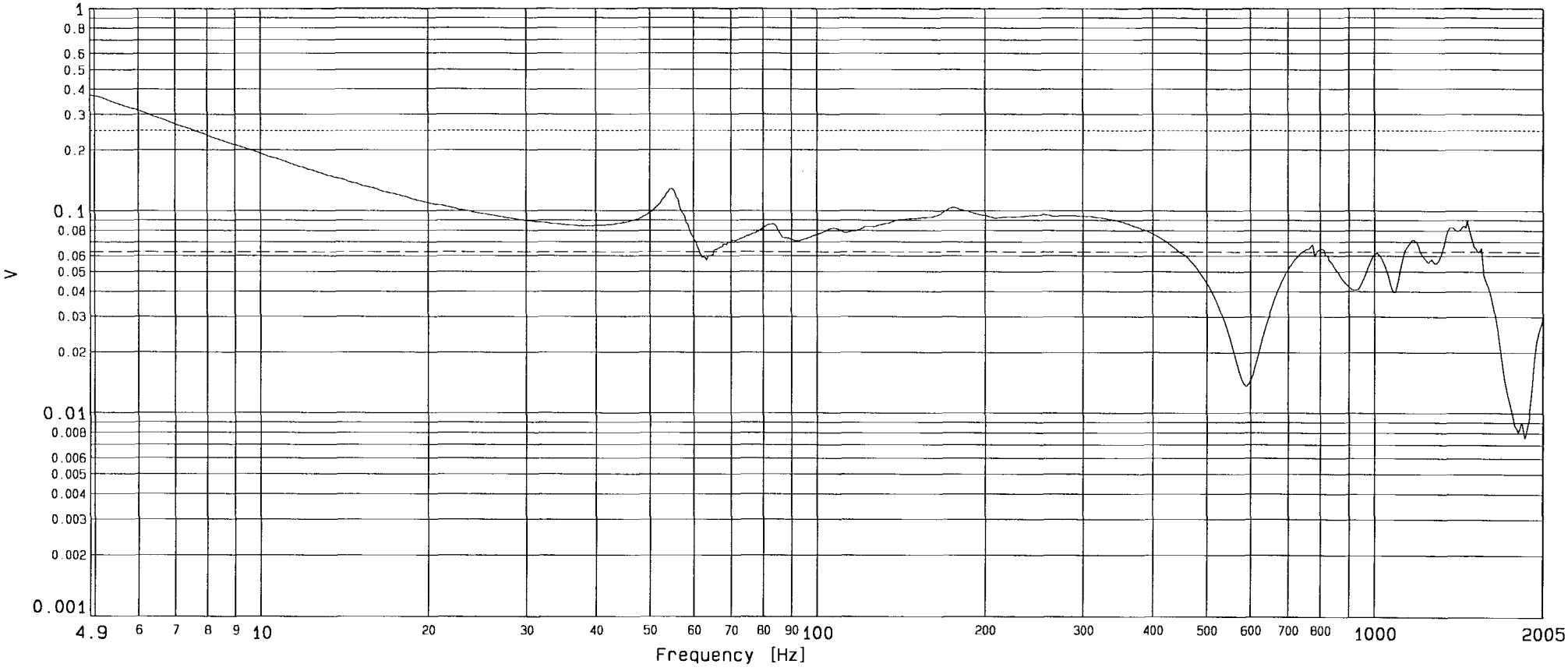
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 11
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 375.74e-03 V

Trace identification :
- Drive
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

LOCKHEED MARTIN MISSILES & SPACE

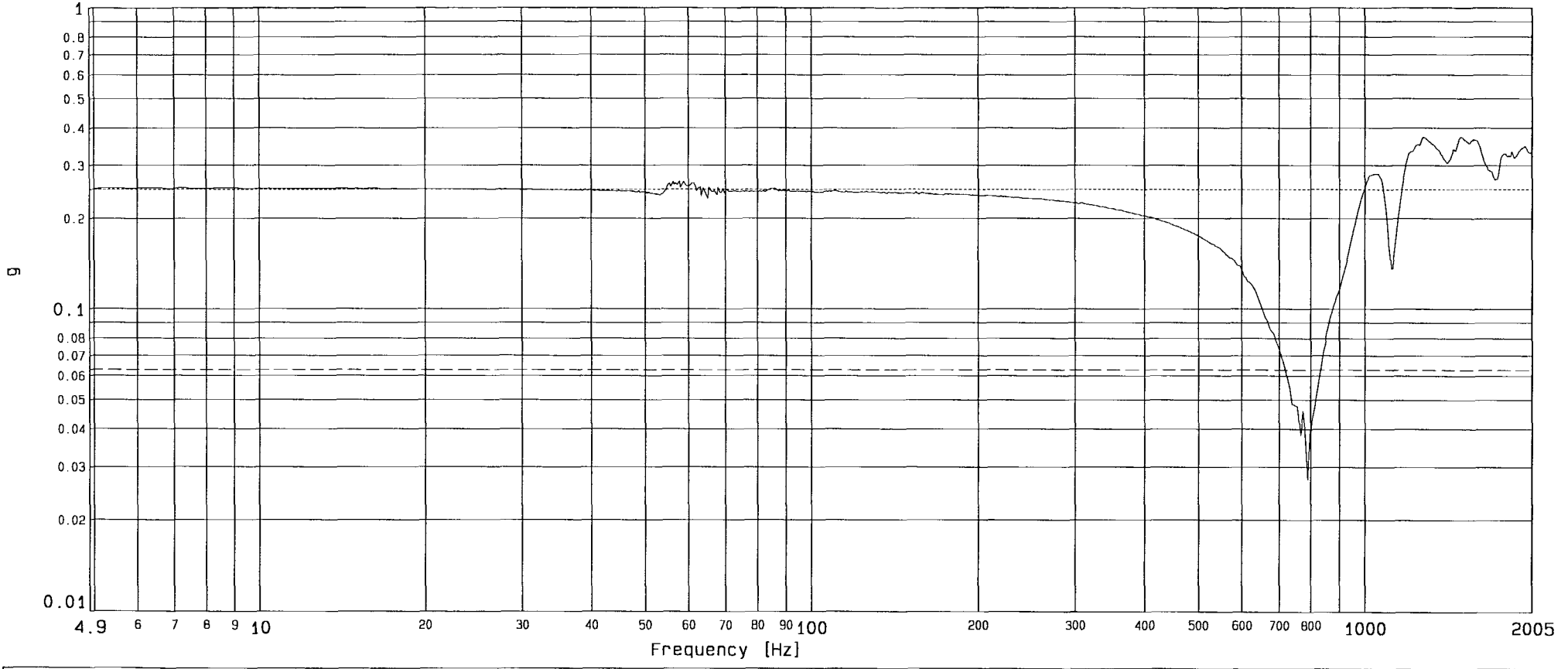
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 11
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 373.56e-03 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

LOCKHEED MARTIN MISSILES & SPACE

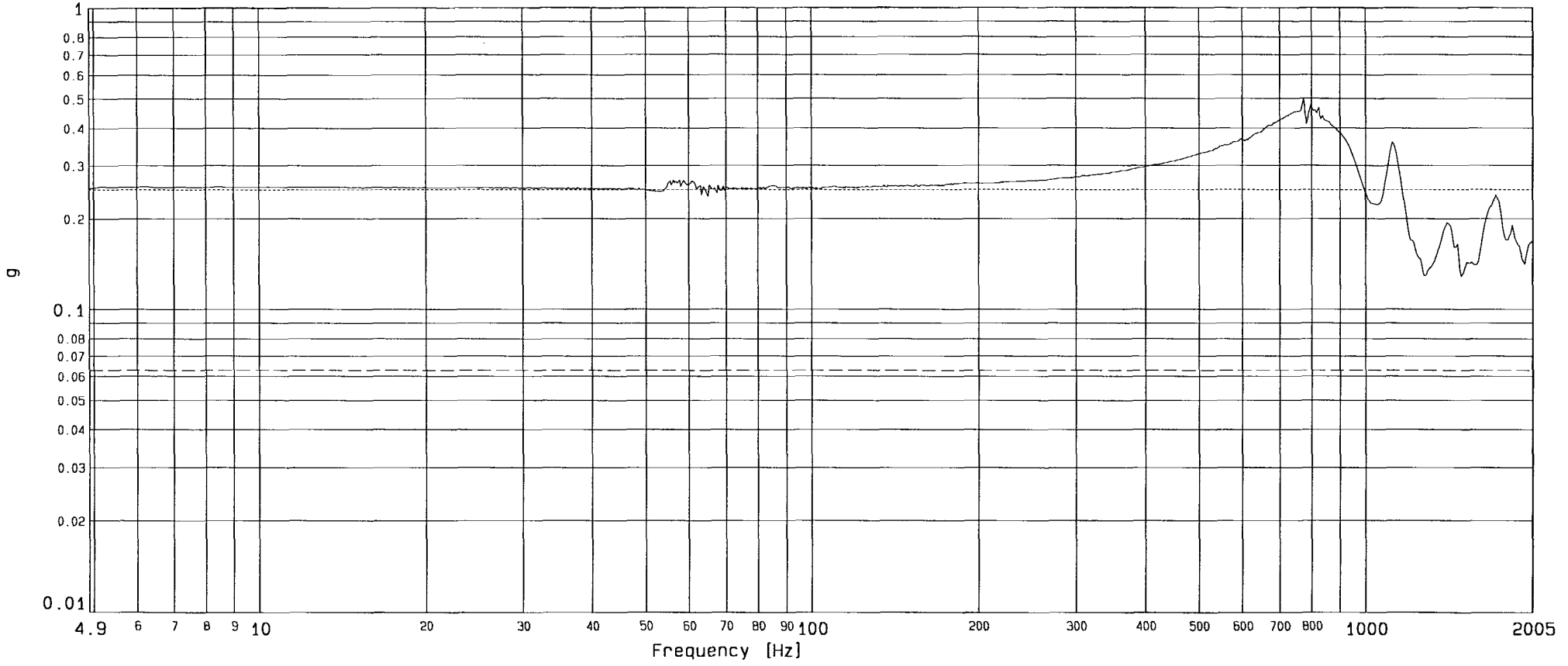
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 11
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 499.06e-03 g

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

LOCKHEED MARTIN MISSILES & SPACE

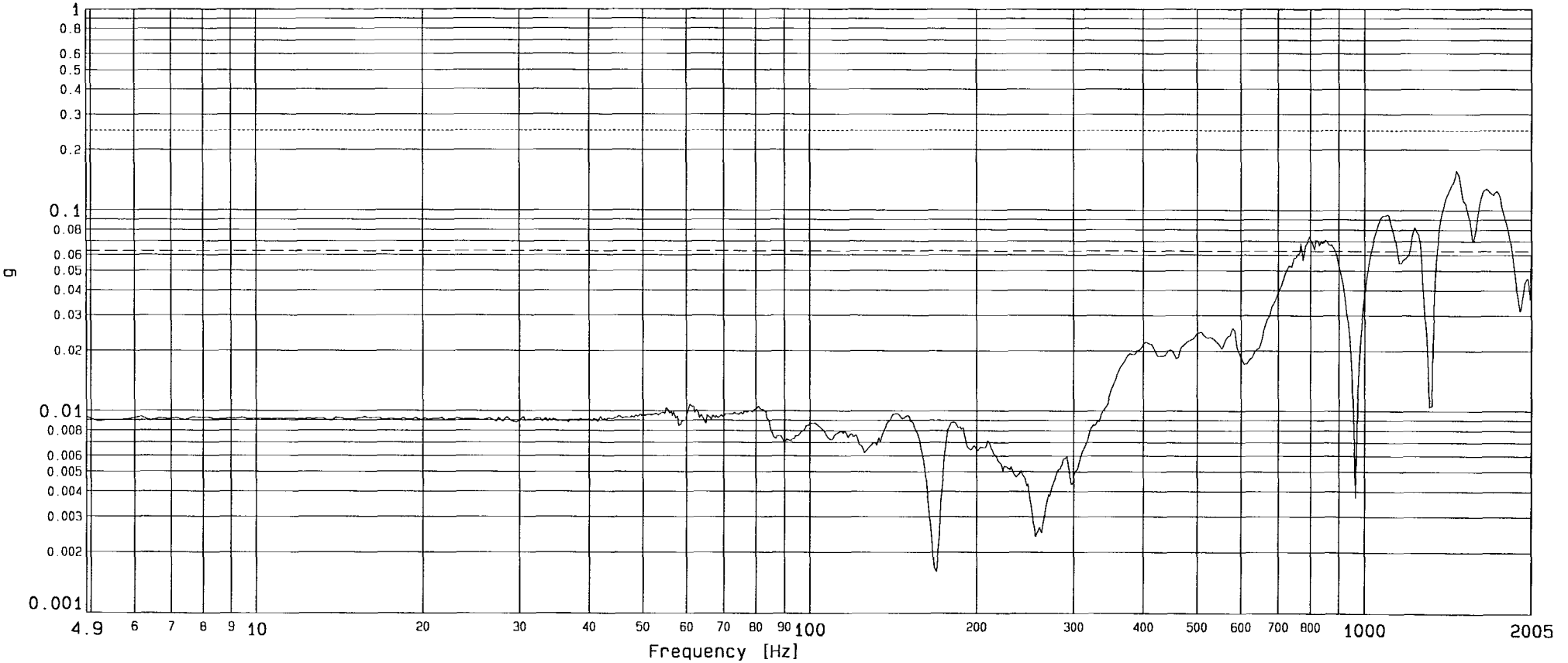
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 11
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 157.68e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

LOCKHEED MARTIN MISSILES & SPACE

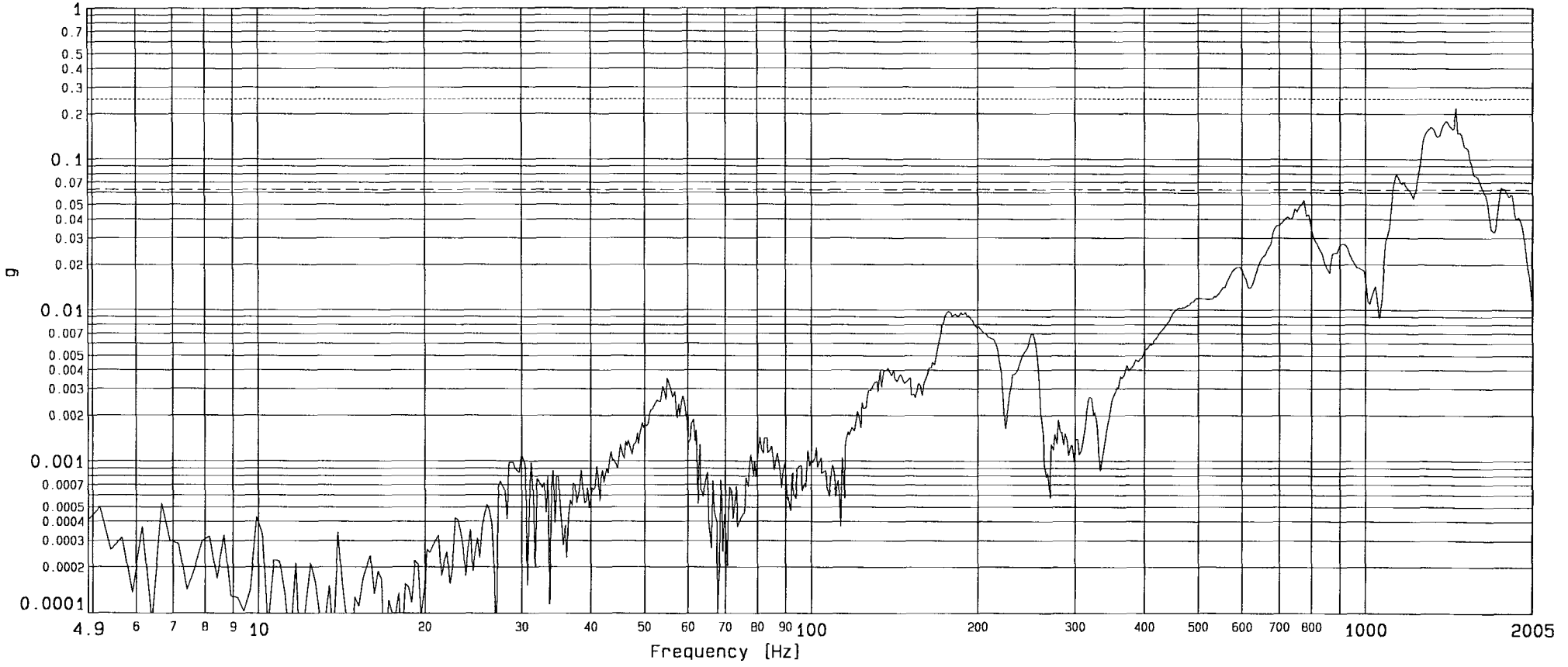
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 11
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 218.63e-03 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

LMS

LOCKHEED MARTIN MISSILES & SPACE

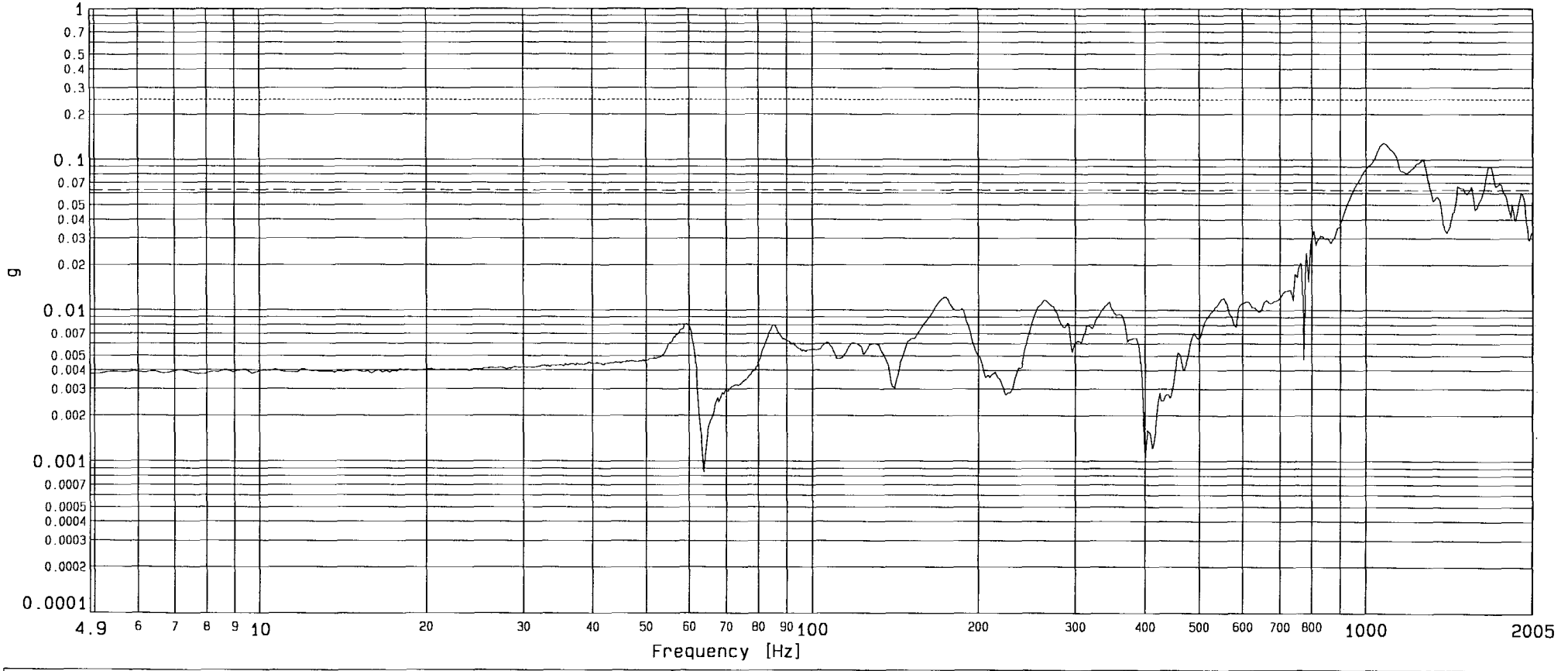
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 11
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 128.15e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

LOCKHEED MARTIN MISSILES & SPACE

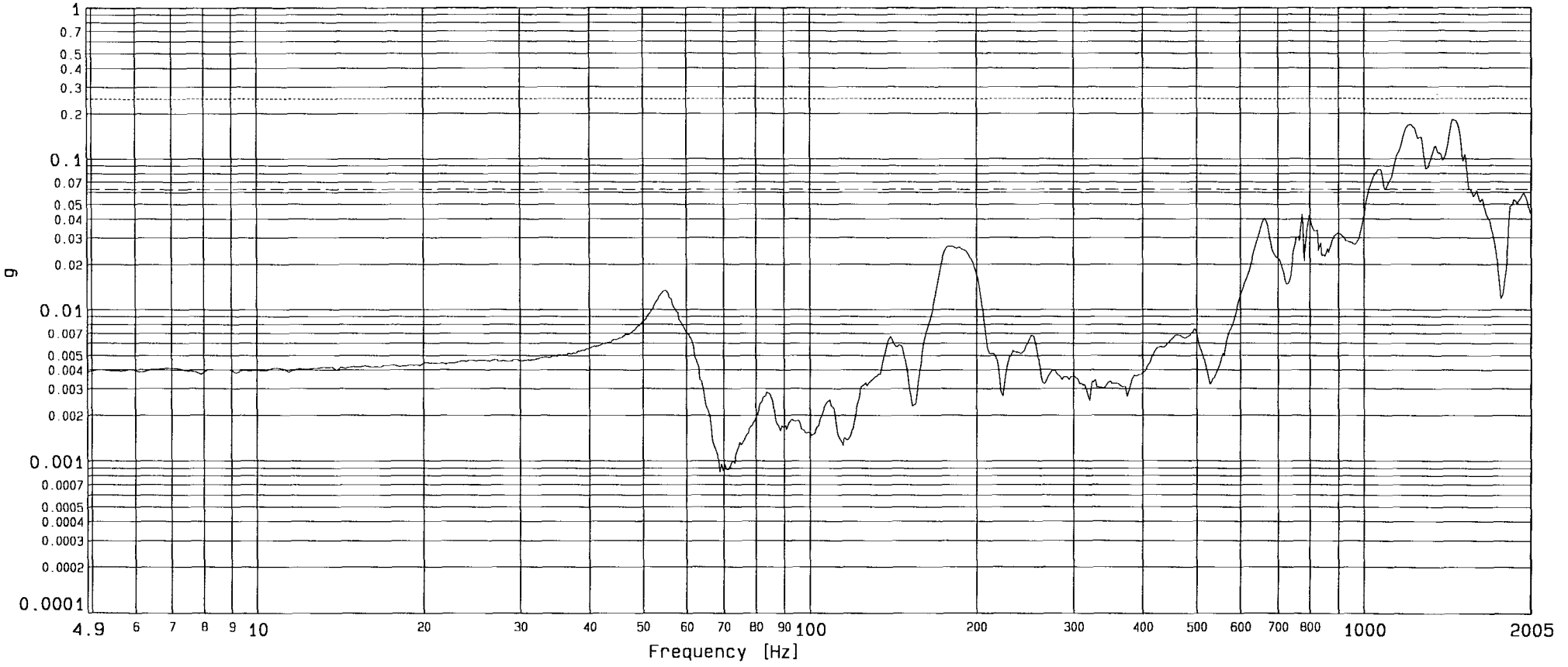
Project : hirdls
Test : Y_Signature
Run : 4 062501

Date : 25-06-02
Time : 00: 11: 11
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 182.21e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Y 0.25G POST SIGNATURE

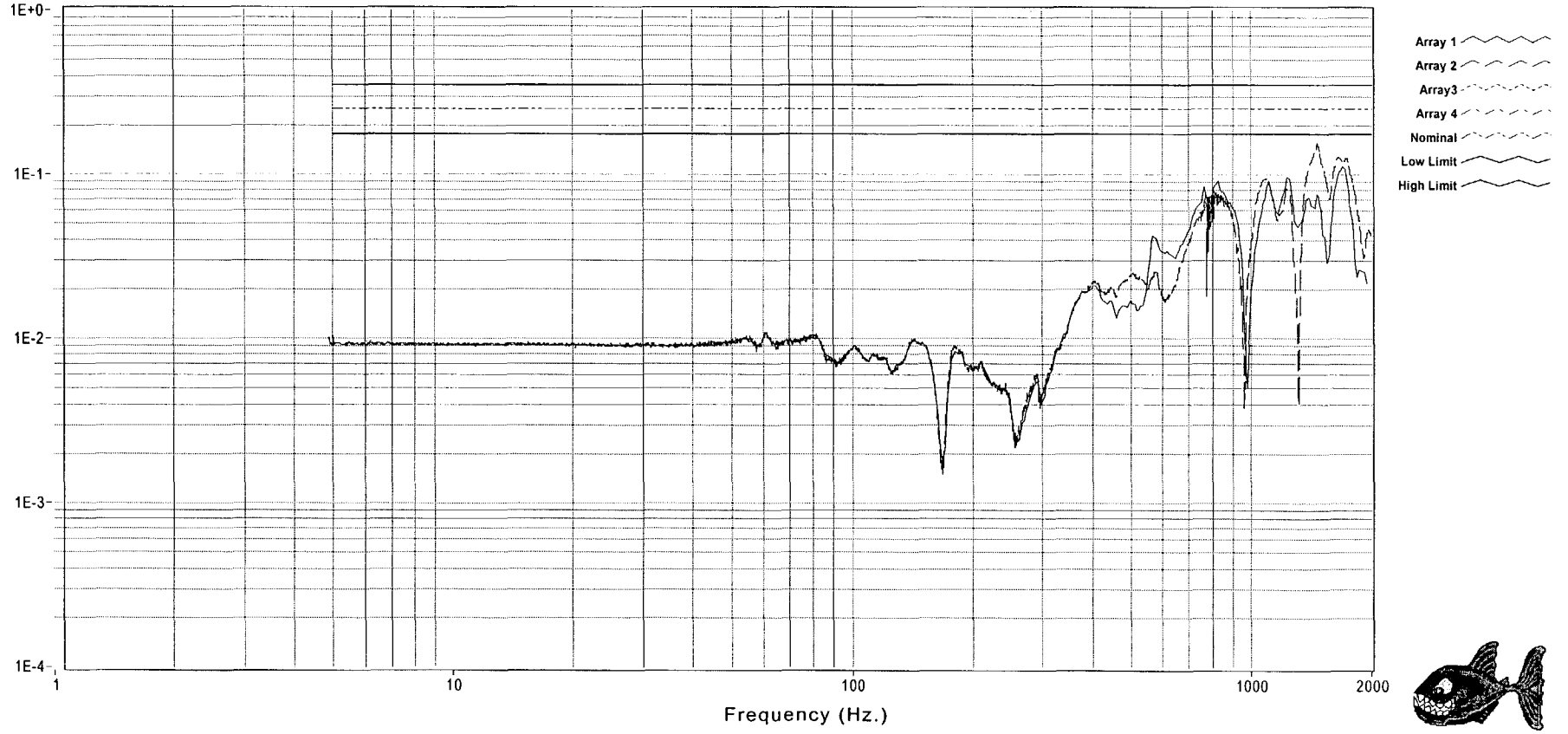
gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062501

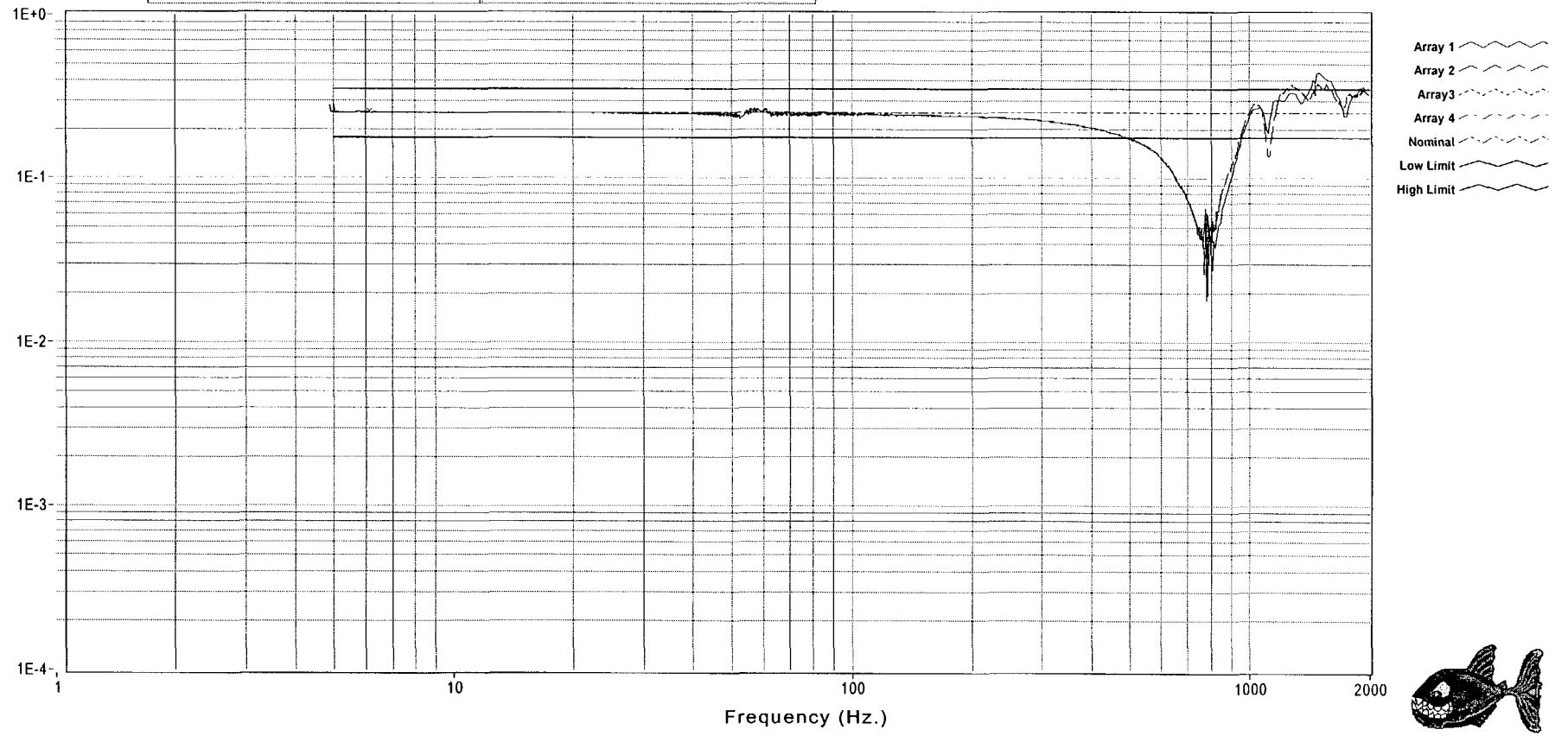
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410 North_Control_X Channel #1	Array 2 sine_Sine062501 North_Control_X Channel #1
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.117E-1 at 1698.0 Hz.	Maximum = 1.576E-1 at 1461.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	North_Control_Y Channel #2	North_Control_Y Channel #2
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.495E-1 at 1492.0 Hz.	Maximum = 3.821E-1 at 1483.0 Hz.
Overall or RMS	N/A	N/A



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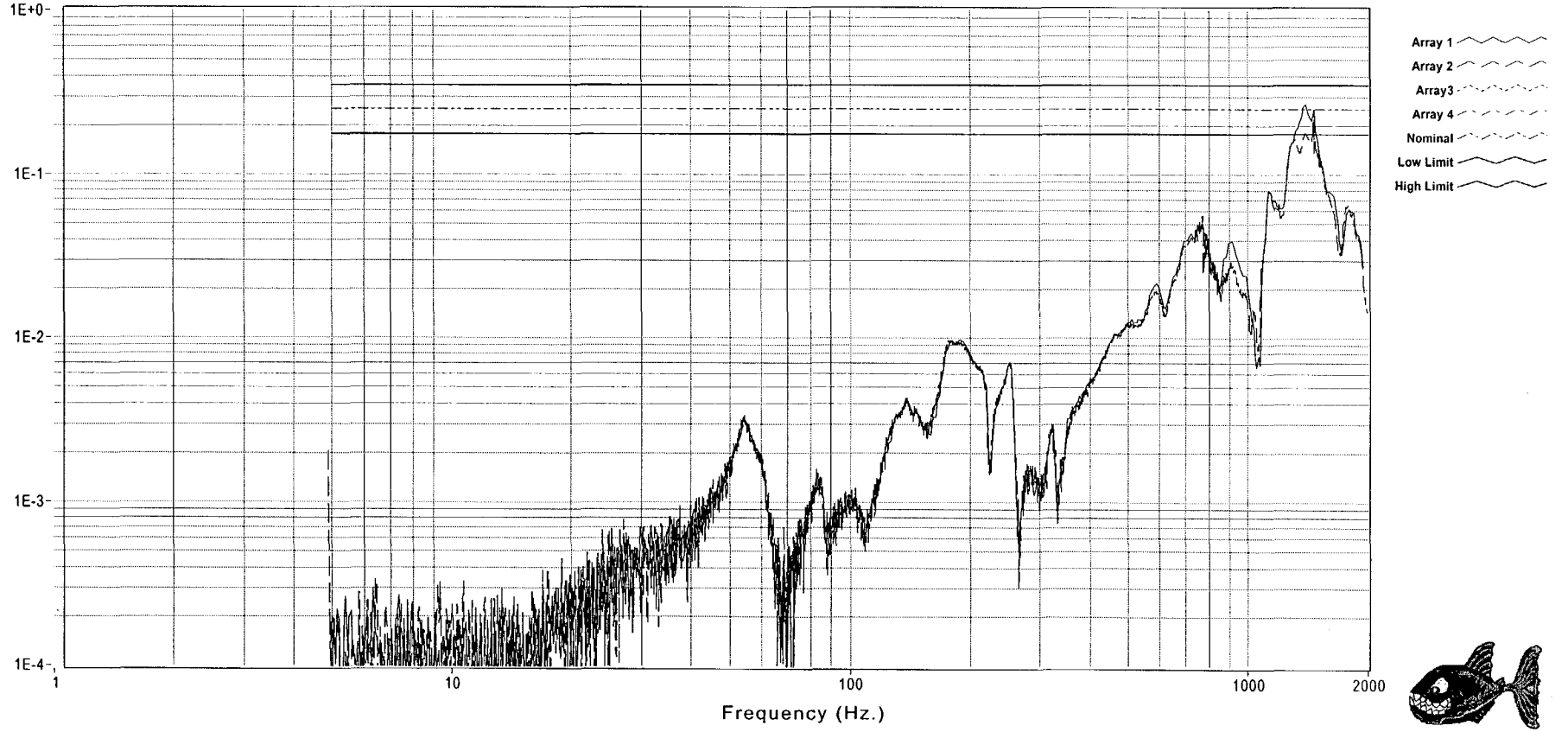
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	North_Control_Z Channel #3	North_Control_Z Channel #3
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.695E-1 at 1391.0 Hz.	Maximum = 2.239E-1 at 1458.0 Hz.
Overall or RMS	N/A	N/A



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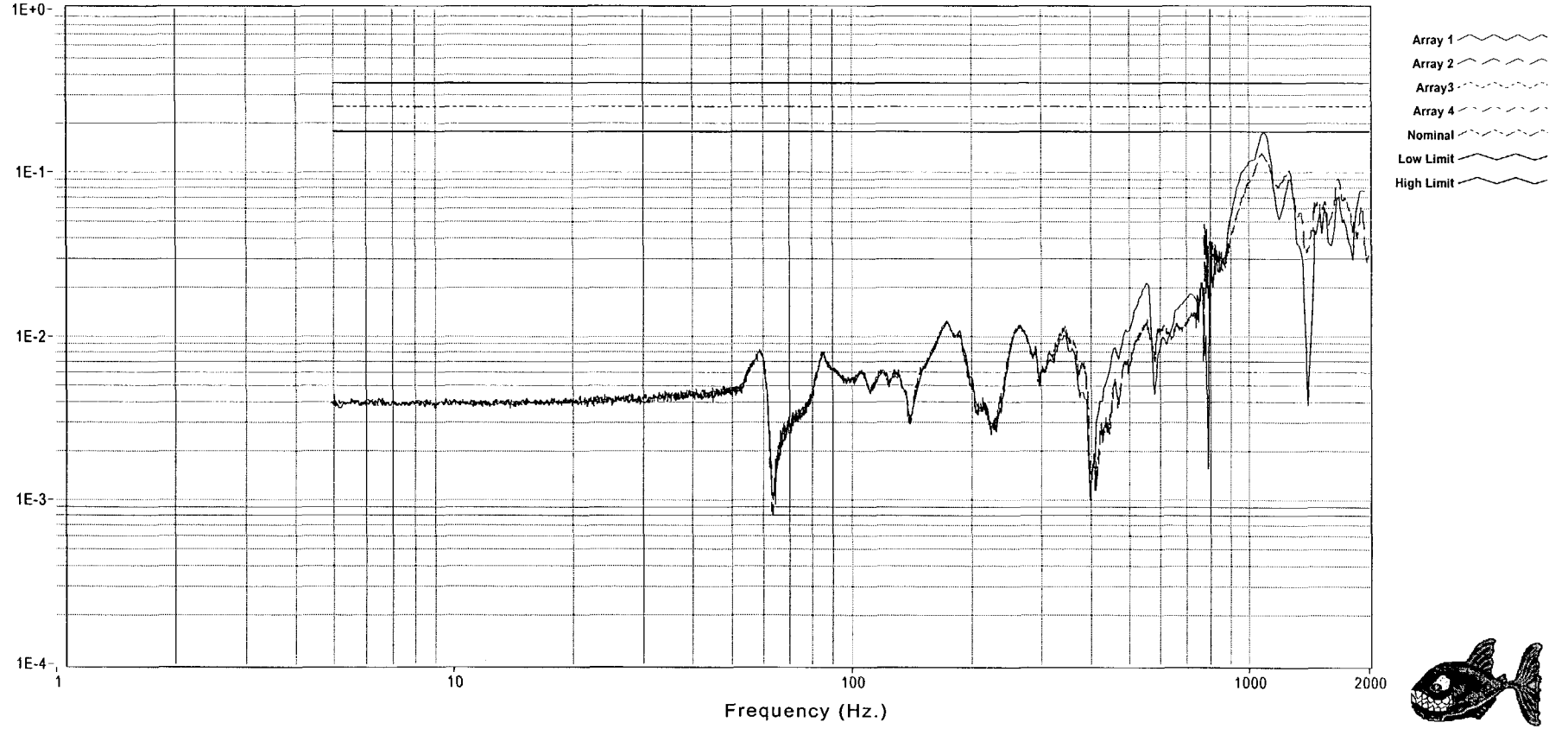
	Array 1 sine_Sine062410 South_Control_X Channel #4	Array 2 sine_Sine062501 South_Control_X Channel #4
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	1	1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.750E-1 at 1085.0 Hz.	Maximum = 1.298E-1 at 1076.0 Hz.
Overall or RMS	N/A	N/A



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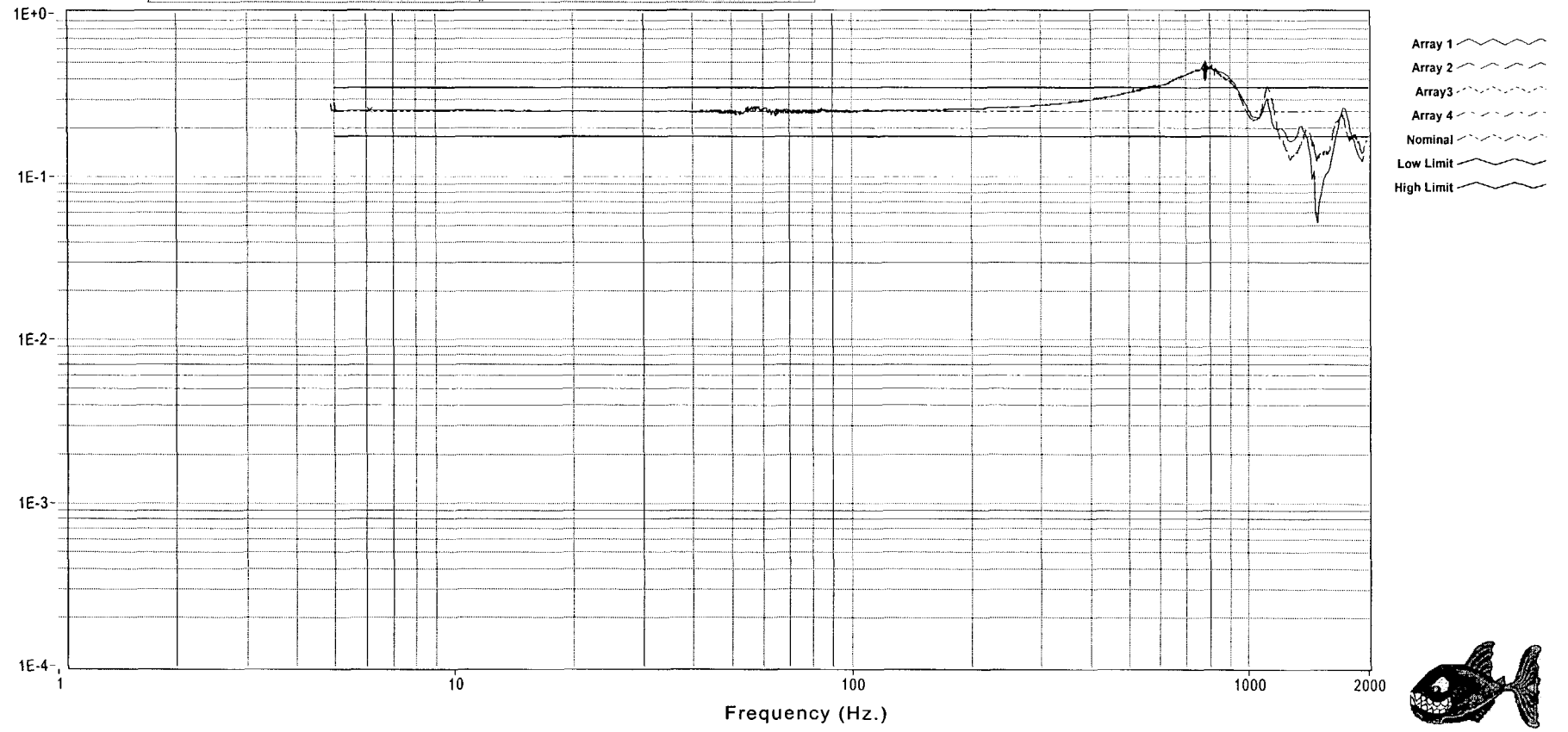
	Array 1 sine_Sine062410 South_Control_Y Channel #5	Array 2 sine_Sine062501 South_Control_Y Channel #5
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.968E-1 at 773.5 Hz.	Maximum = 5.067E-1 at 779.3 Hz.
Overall or RMS	N/A	N/A



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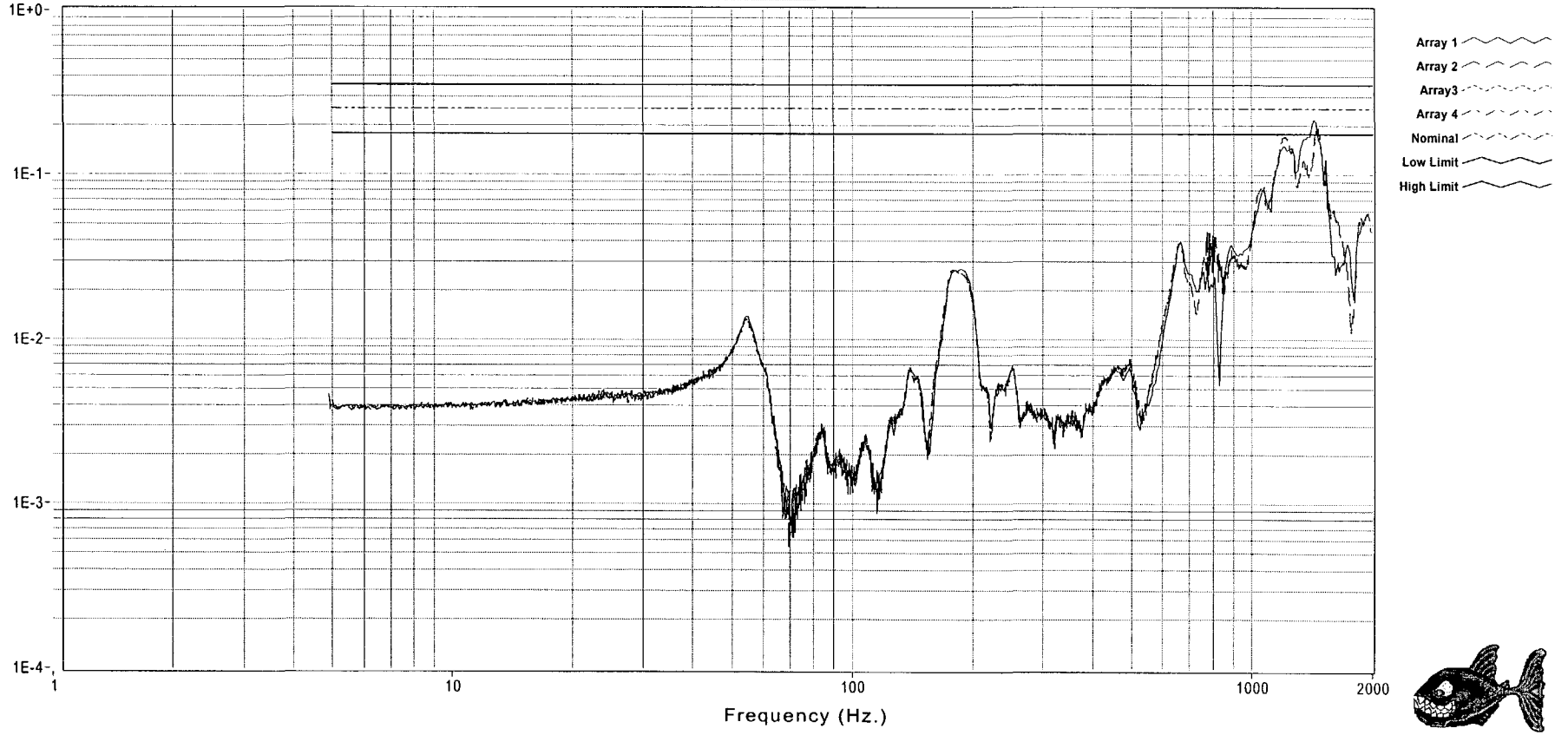
	Array 1 sine_Sine062410 South_Control_Z Channel #6	Array 2 sine_Sine062501 South_Control_Z Channel #6
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.173E-1 at 1433.0 Hz.	Maximum = 1.914E-1 at 1466.0 Hz.
Overall or RMS	N/A	N/A



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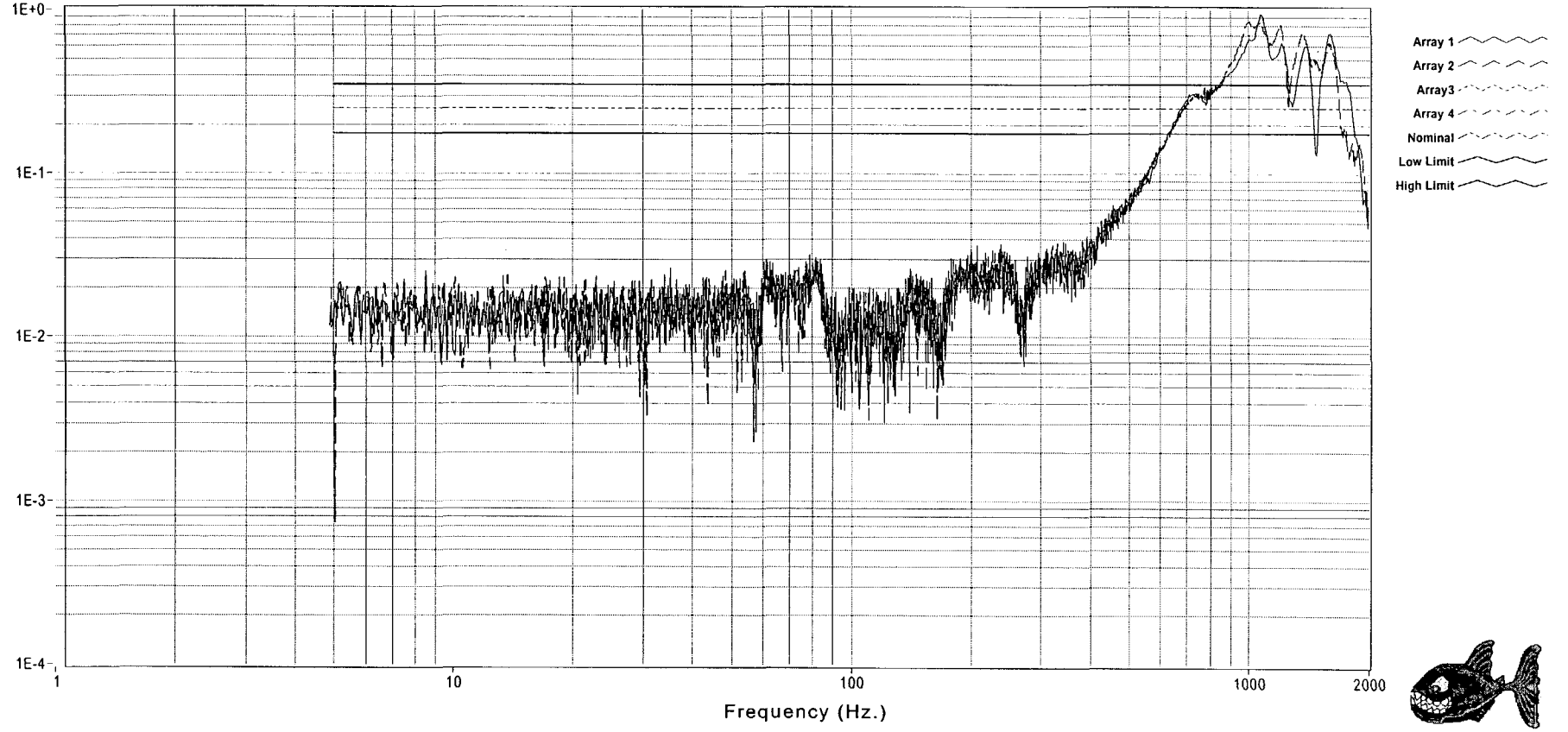
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A5 X Channel #7	A5 X Channel #7
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.444E-1 at 1074.0 Hz.	Maximum = 8.625E-1 at 1005.0 Hz.
Overall or RMS	N/A	N/A



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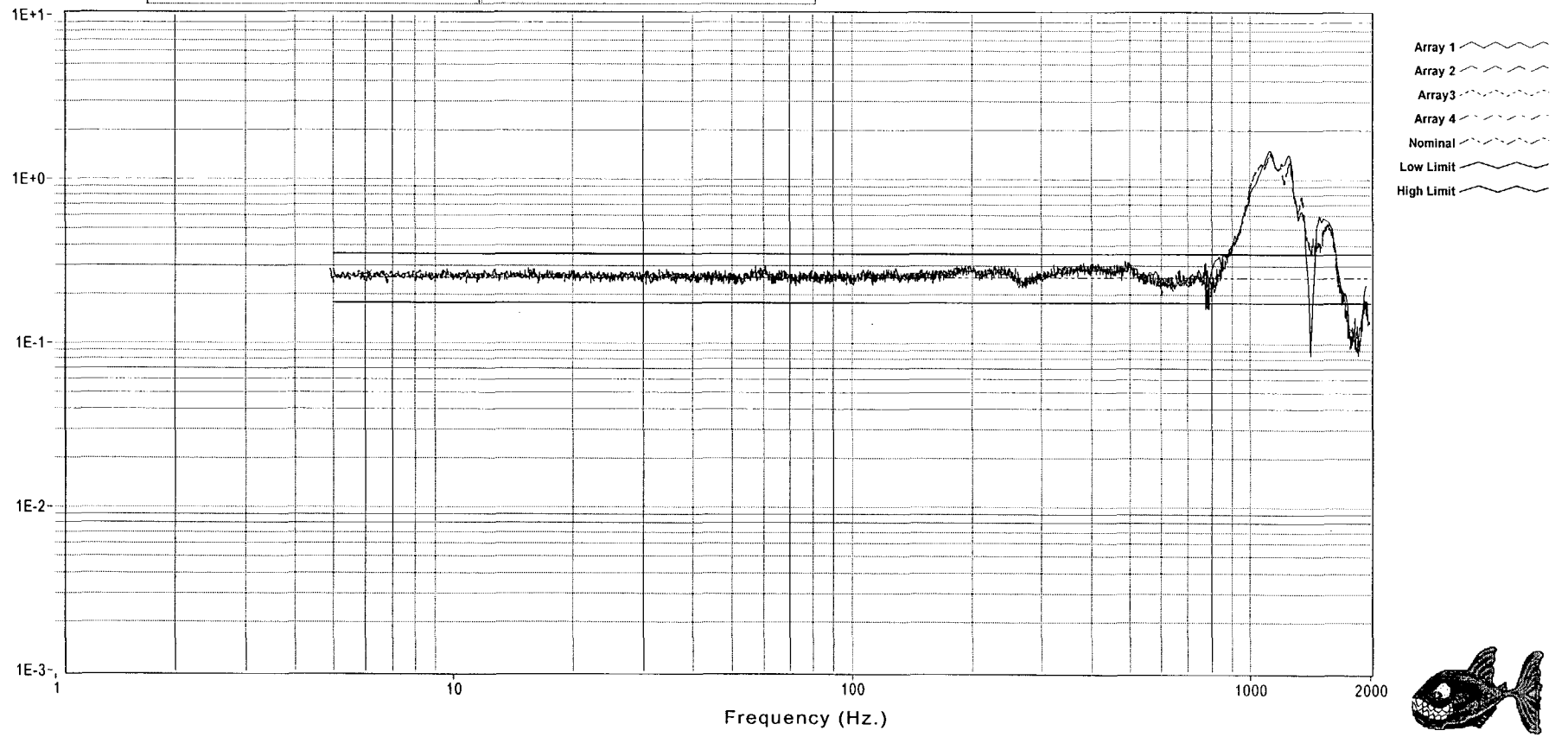
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A5 Y Channel #8	A5 Y Channel #8
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.498E+0 at 1129.0 Hz.	Maximum = 1.437E+0 at 1126.0 Hz.
Overall or RMS	N/A	N/A



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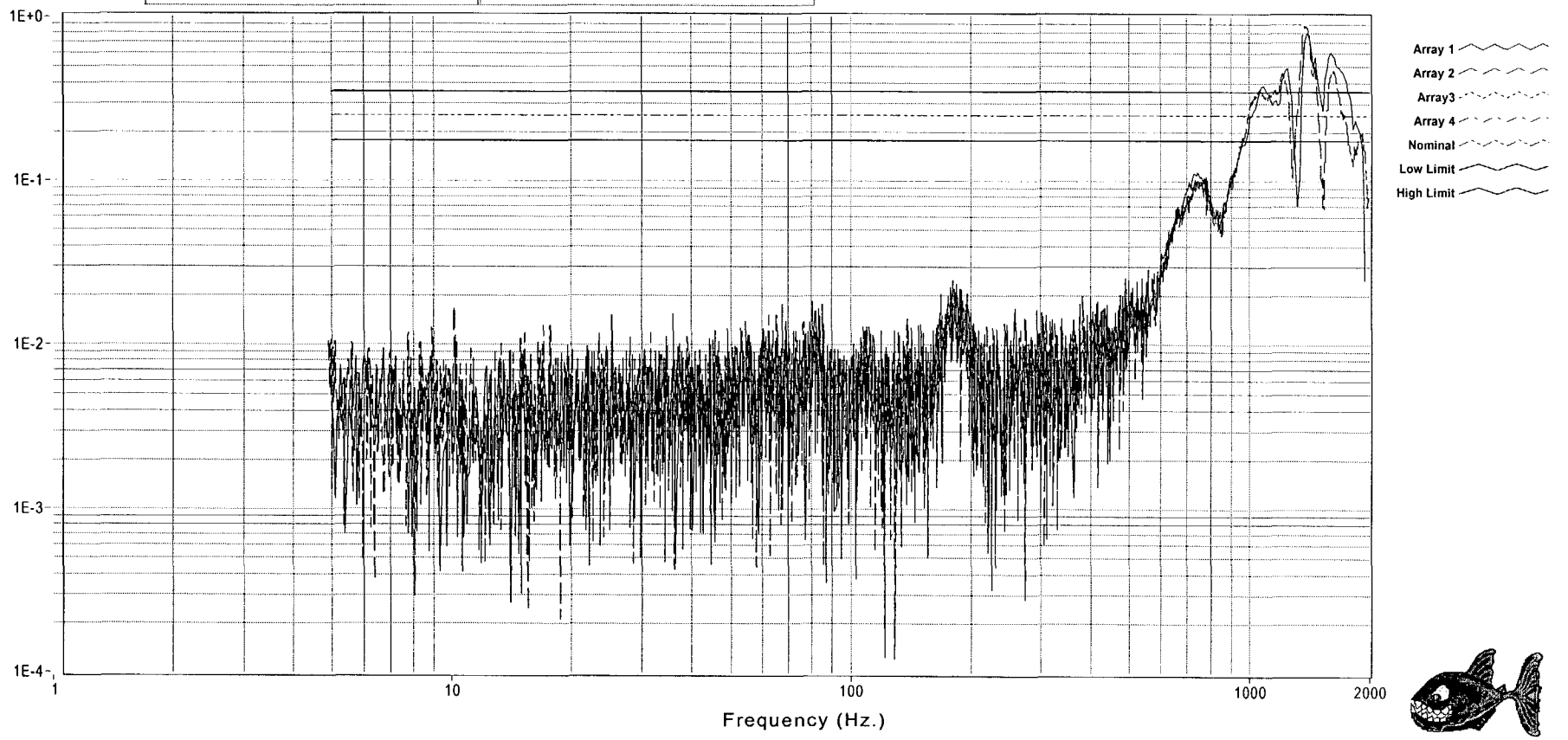
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A5 Z Channel #9	A5 Z Channel #9
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.988E-1 at 1391.0 Hz.	Maximum = 8.883E-1 at 1375.0 Hz.
Overall or RMS	N/A	N/A



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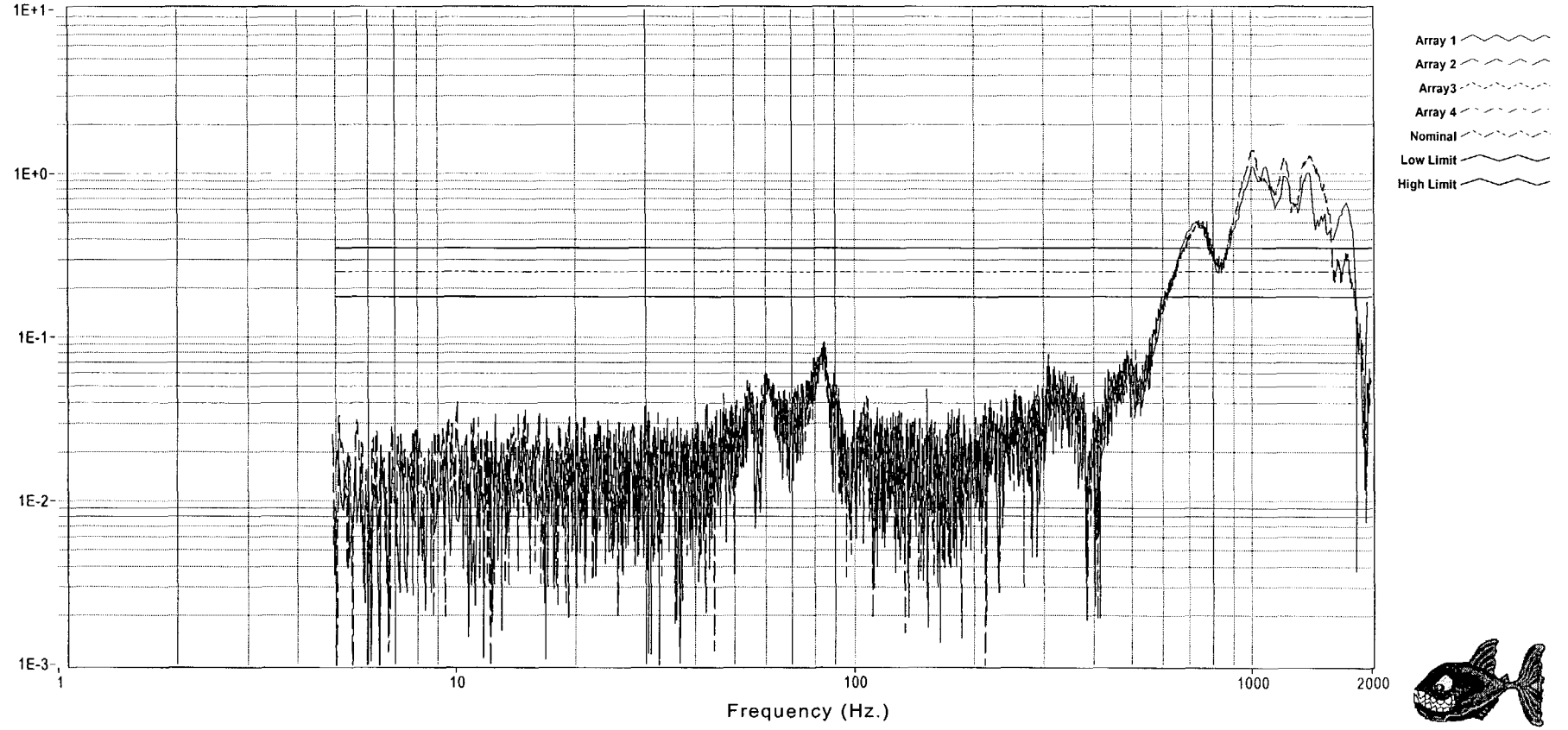
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A6 X Channel #10	A6 X Channel #10
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.111E+0 at 1085.0 Hz.	Maximum = 1.409E+0 at 1005.0 Hz.
Overall or RMS	N/A	N/A



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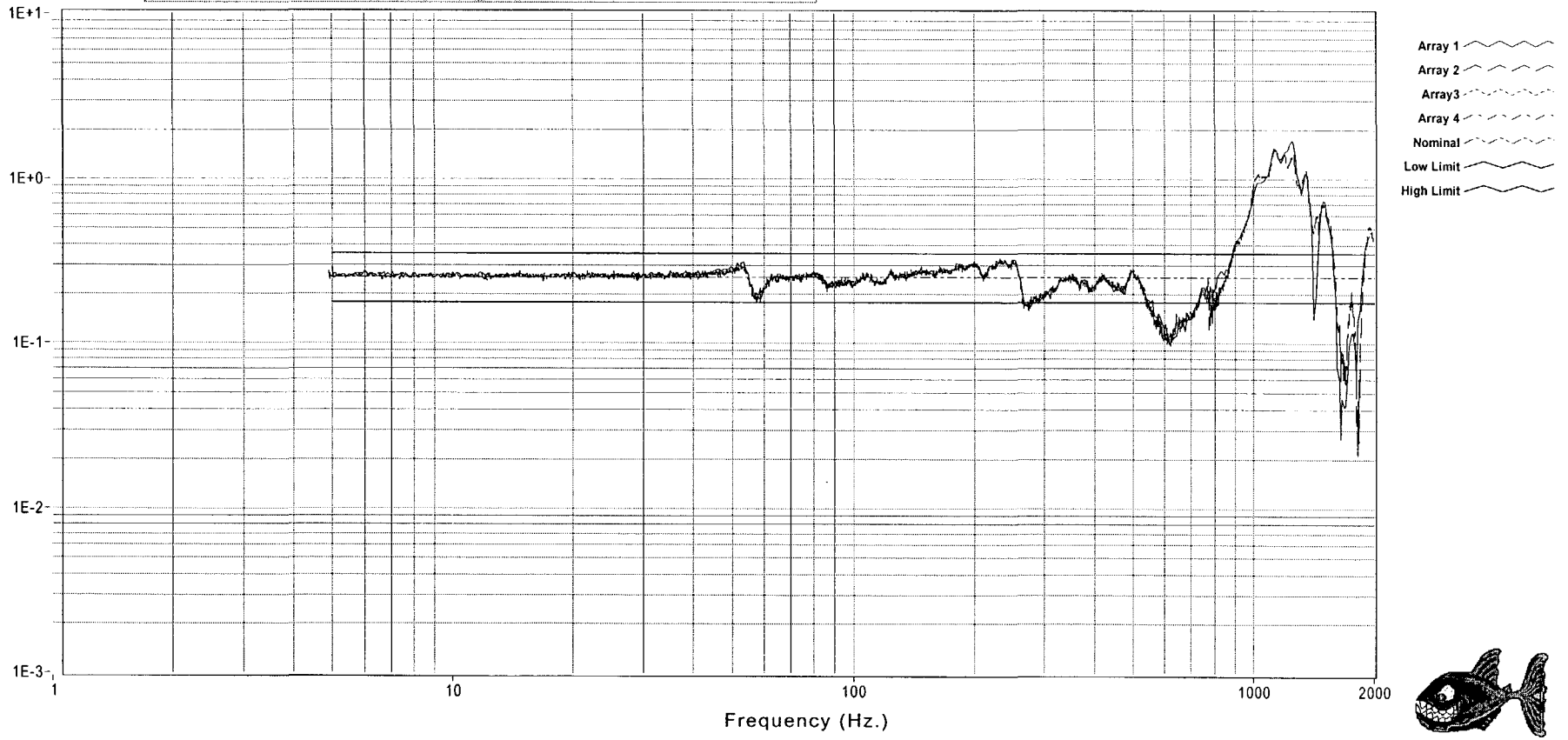
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A6 Y Channel #11	A6 Y Channel #11
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.727E+0 at 1247.0 Hz.	Maximum = 1.507E+0 at 1134.0 Hz.
Overall or RMS	N/A	N/A



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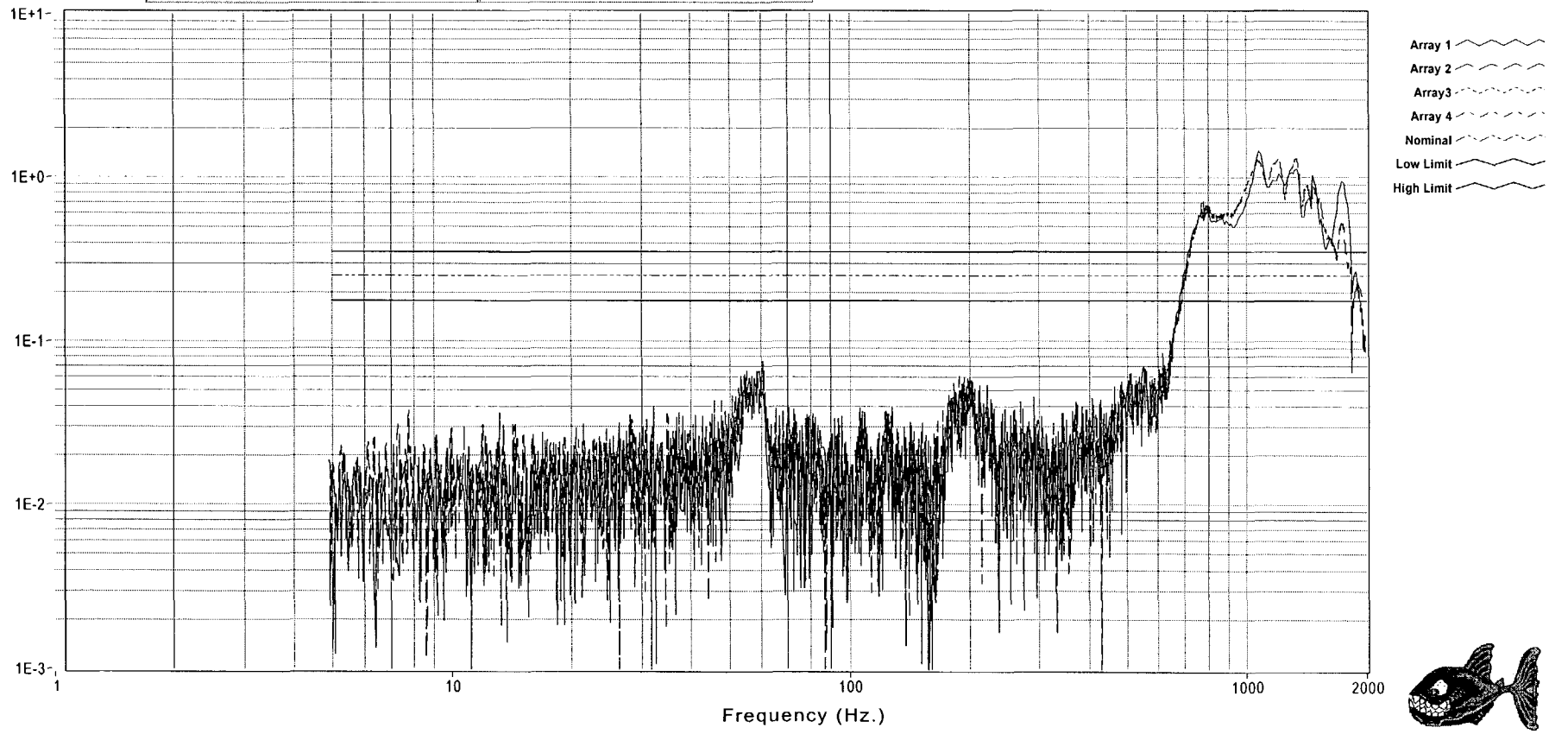
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A6 Z Channel #12	A6 Z Channel #12
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.441E+0 at 1074.0 Hz.	Maximum = 1.311E+0 at 1329.0 Hz.
Overall or RMS	N/A	N/A



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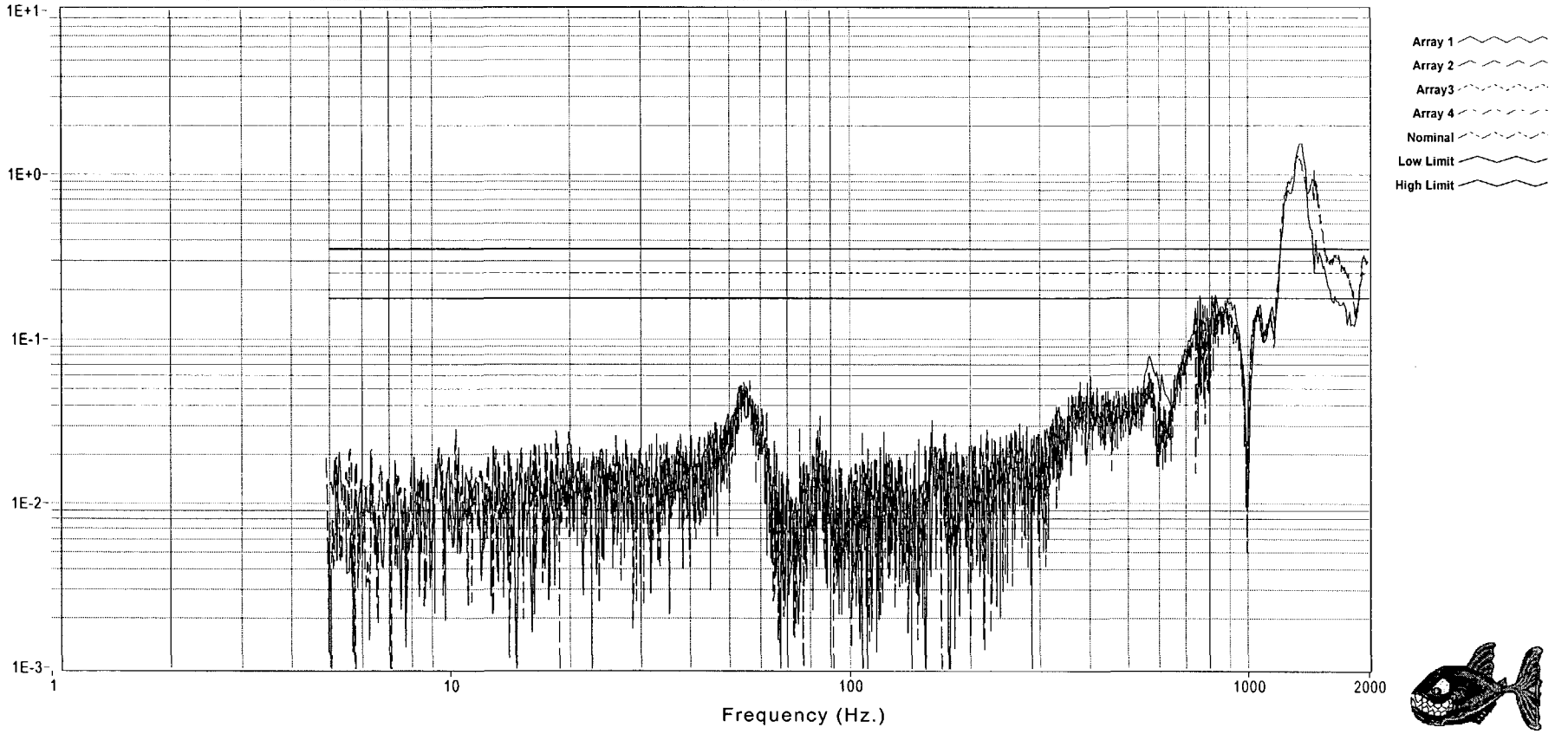
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A7 X Channel #17	A7 X Channel #17
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.554E+0 at 1364.0 Hz.	Maximum = 1.307E+0 at 1338.0 Hz.
Overall or RMS	N/A	N/A



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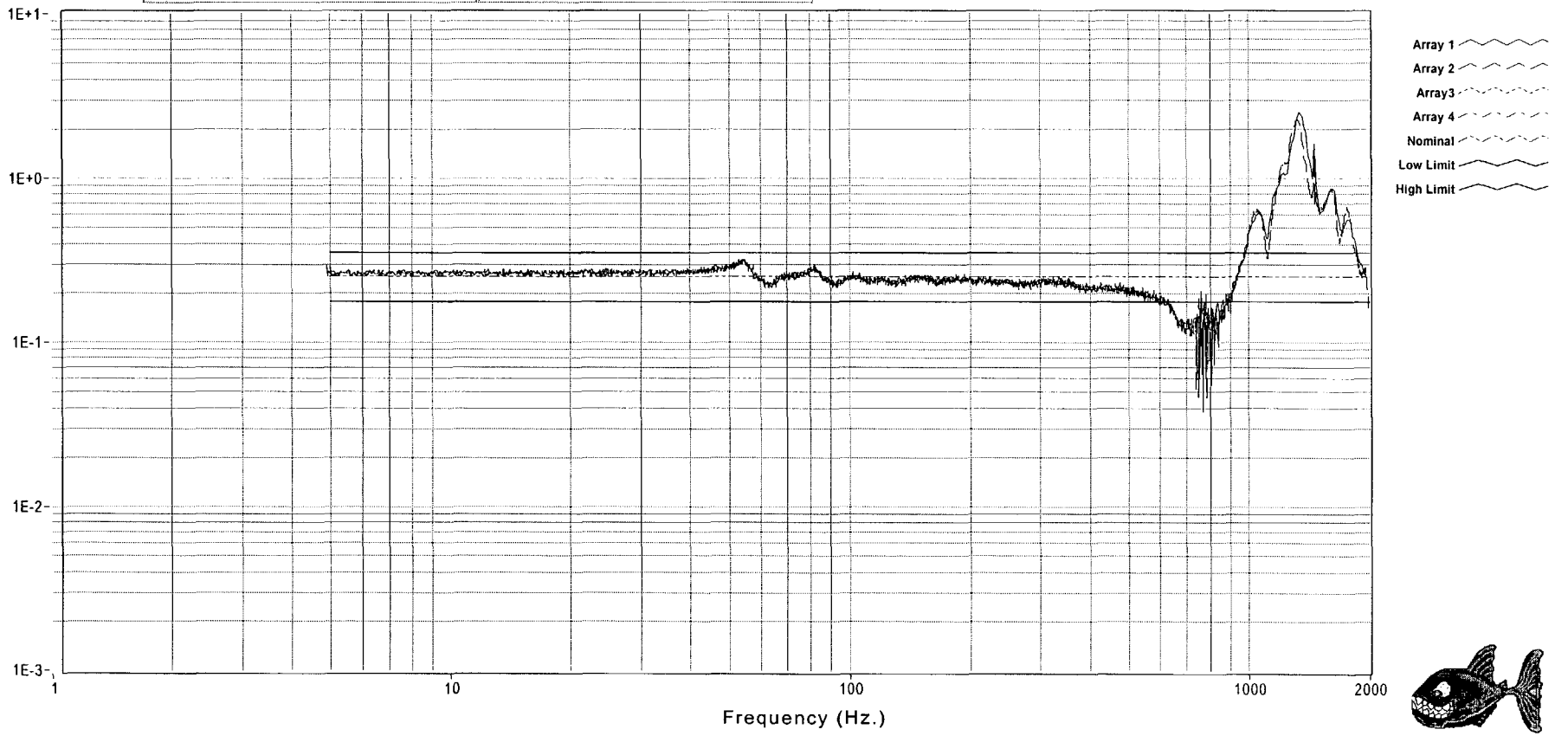
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A7 Y Channel #18	A7 Y Channel #18
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.508E+0 at 1337.0 Hz.	Maximum = 2.273E+0 at 1328.0 Hz.
Overall or RMS	N/A	N/A



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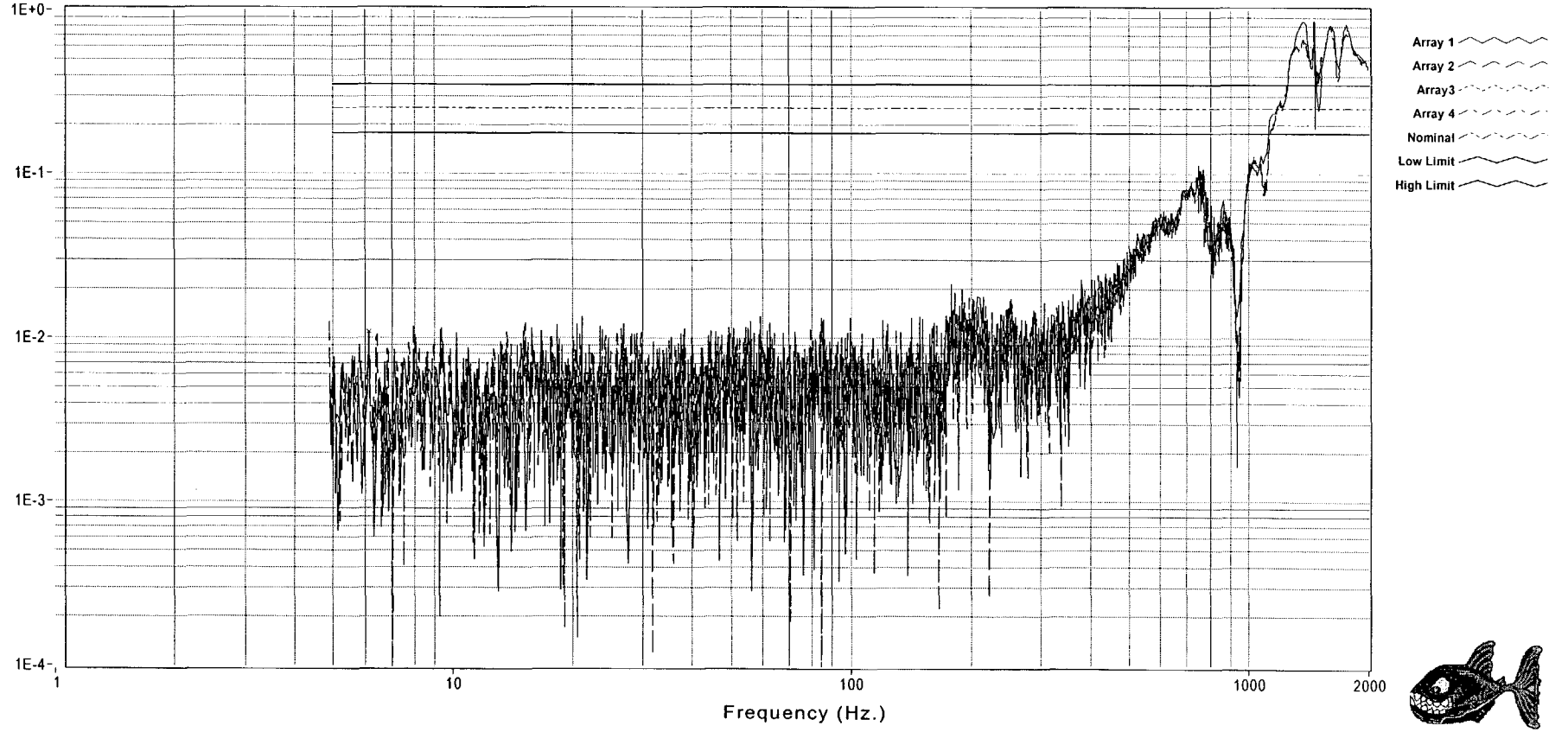
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A7 Z Channel #19	A7 Z Channel #19
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.587E-1 at 1377.0 Hz.	Maximum = 9.011E-1 at 1458.0 Hz.
Overall or RMS	N/A	N/A



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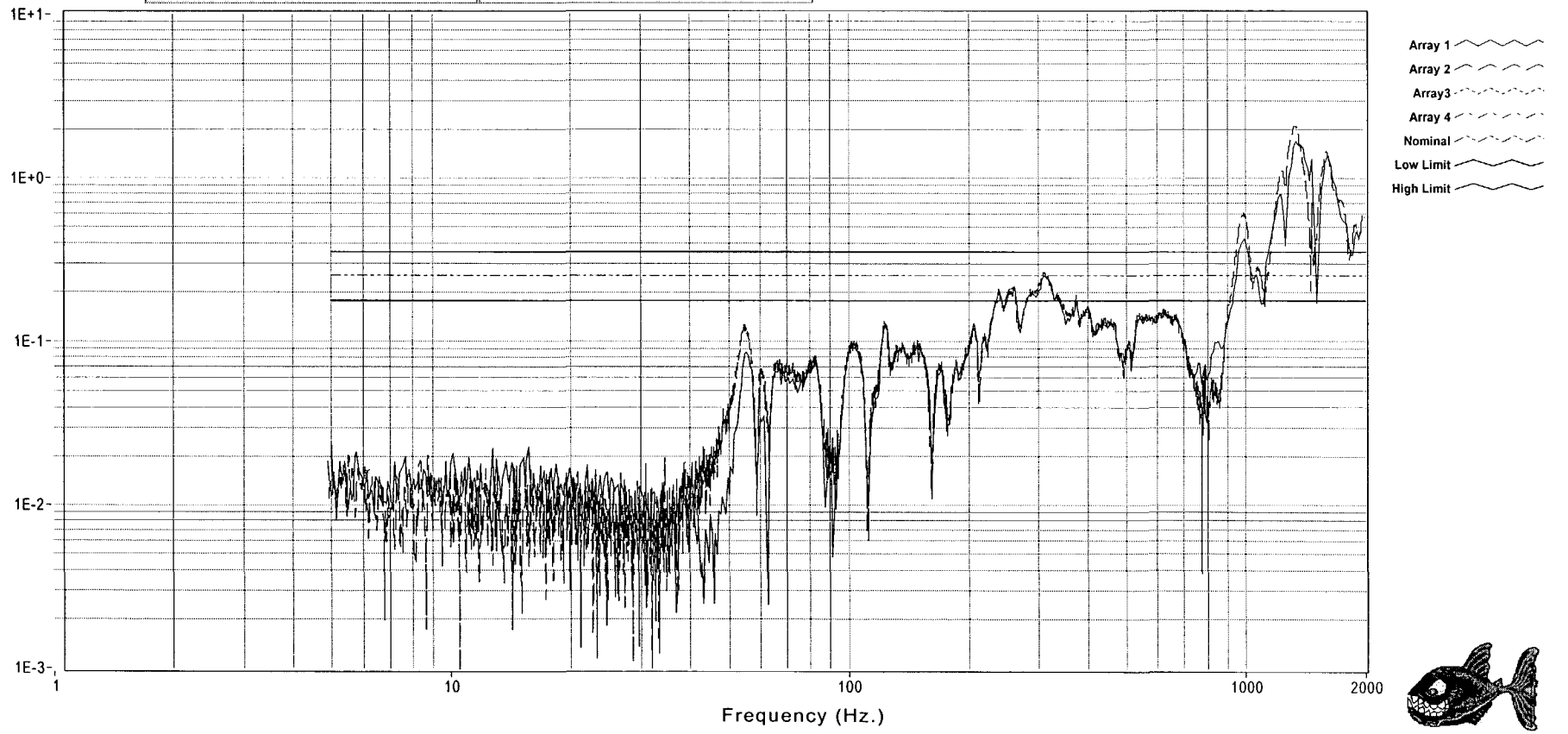
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A8 X Channel #20	A8 X Channel #20
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.679E+0 at 1337.0 Hz.	Maximum = 2.108E+0 at 1328.0 Hz.
Overall or RMS	N/A	N/A



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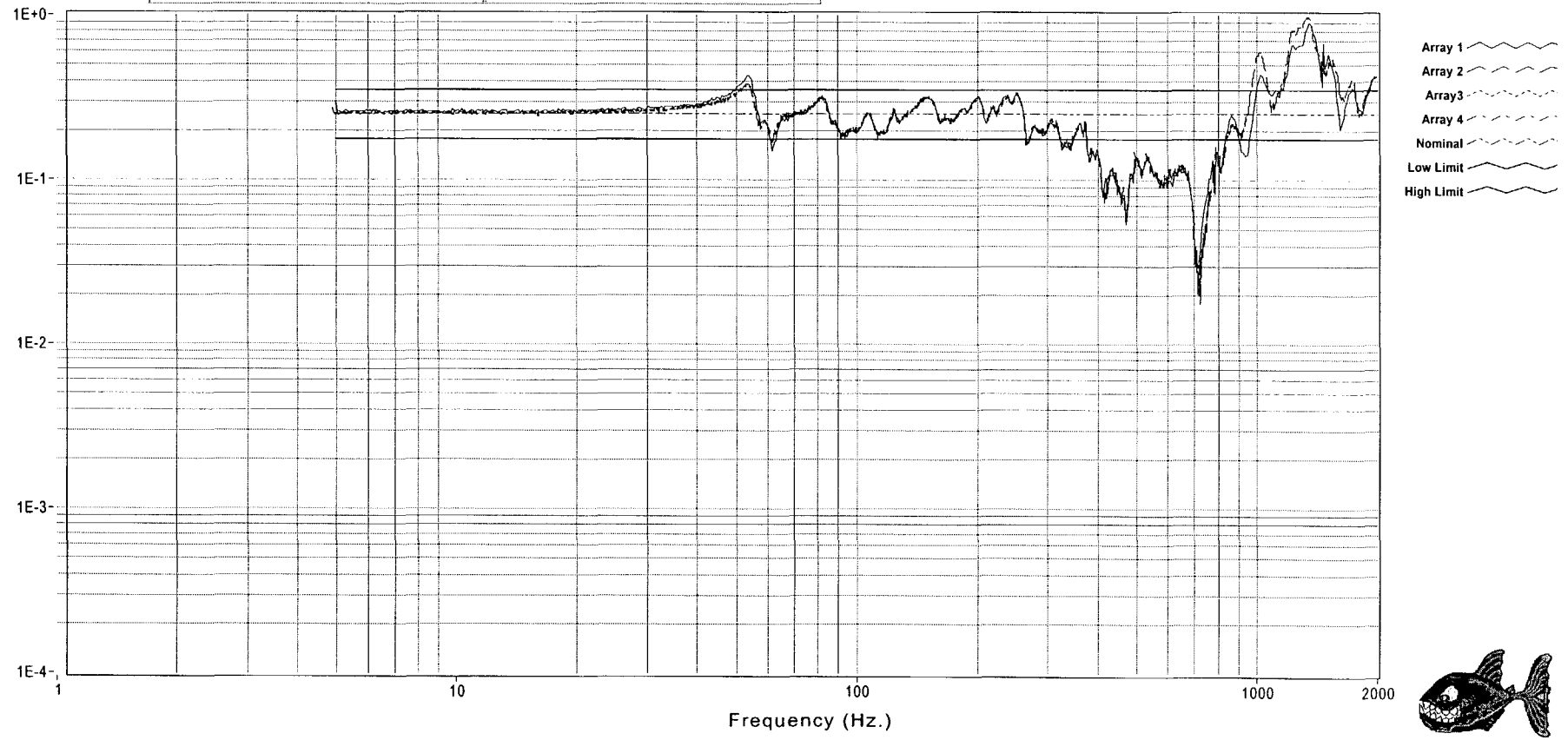
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A8 Y Channel #21	A8 Y Channel #21
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	0.01034	0.01034
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.016E-1 at 1350.0 Hz.	Maximum = 9.867E-1 at 1341.0 Hz.
Overall or RMS	N/A	N/A



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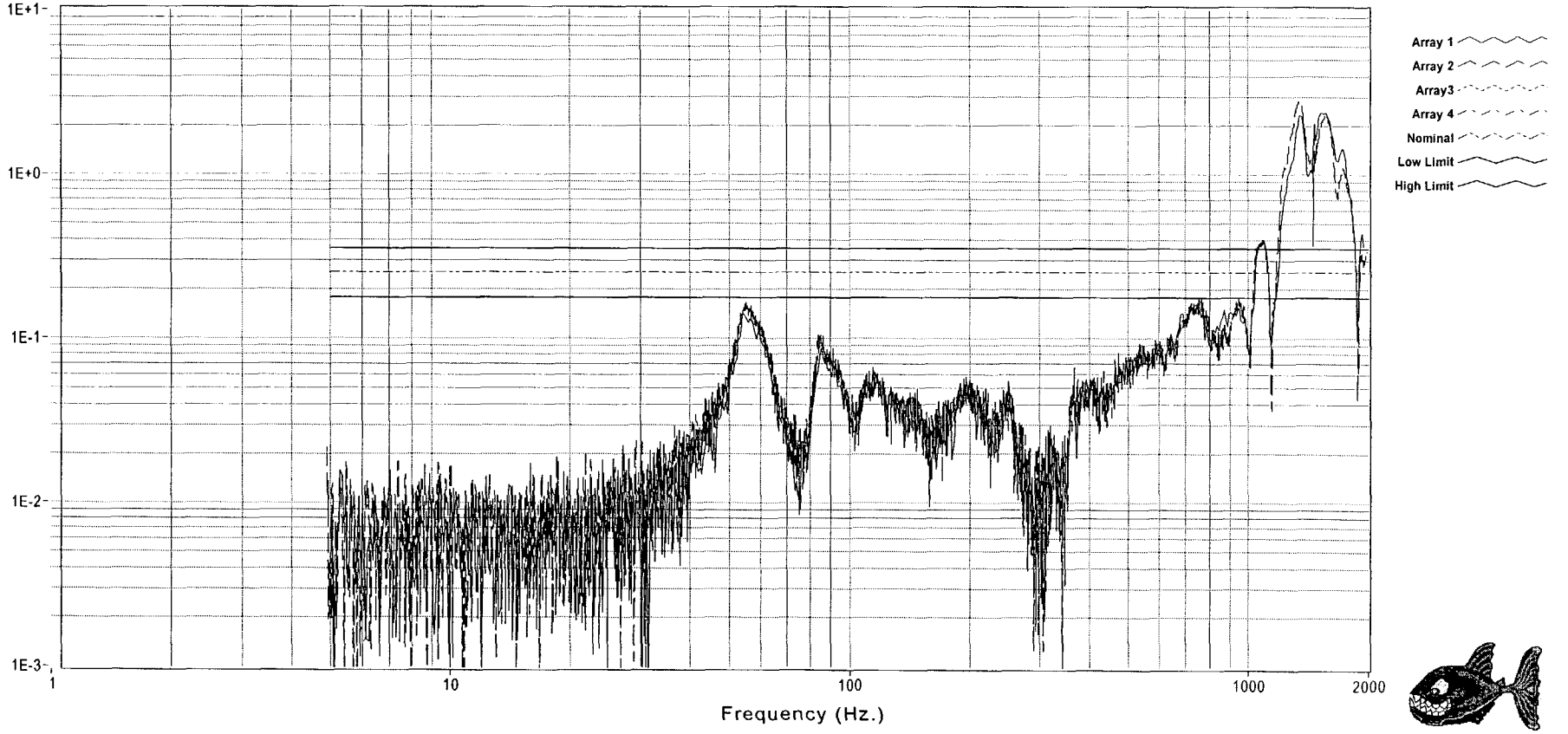
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A8 Z Channel #22	A8 Z Channel #22
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	0.01029	0.01029
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.417E+0 at 1568.0 Hz.	Maximum = 2.858E+0 at 1350.0 Hz.
Overall or RMS	N/A	N/A



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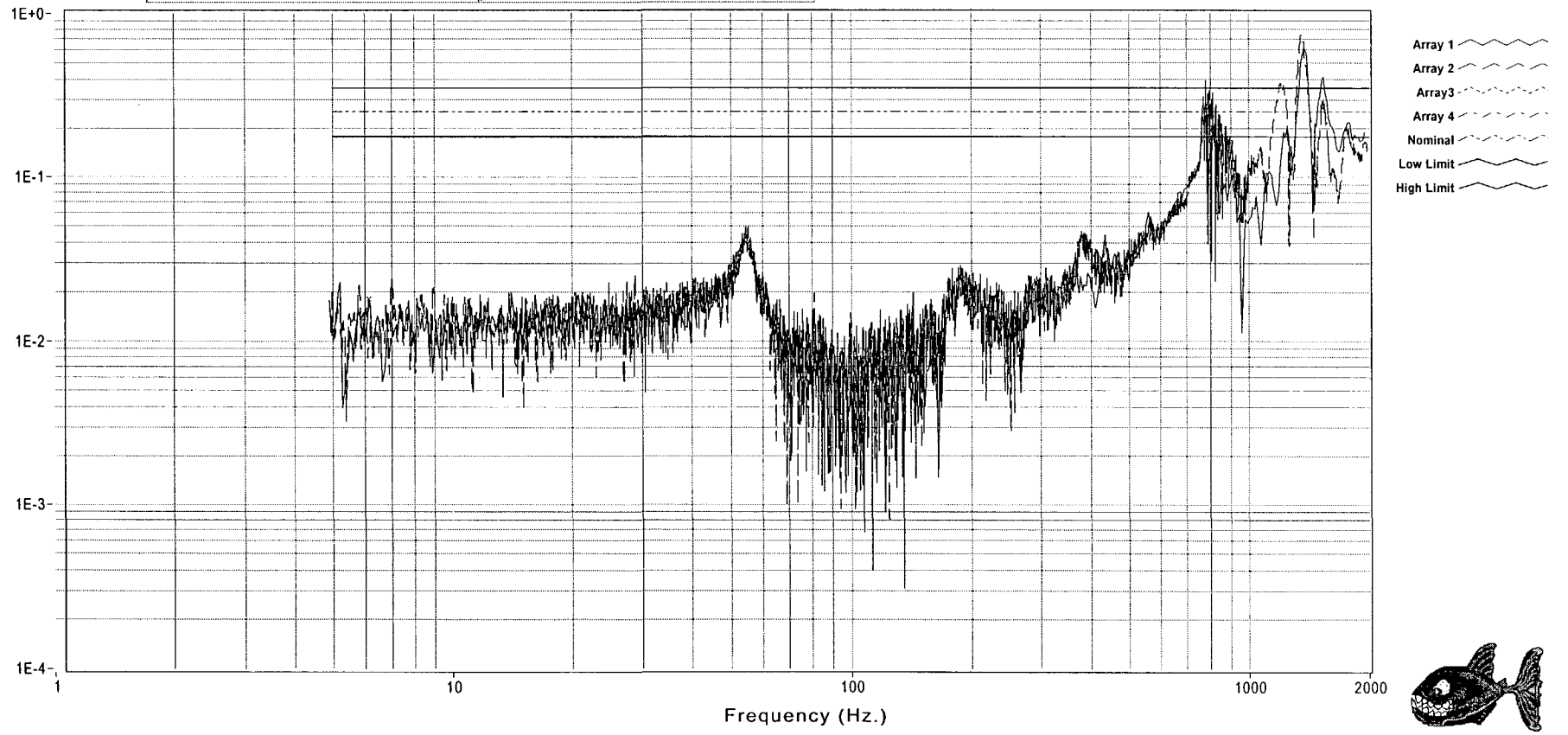
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A9 X Channel #23	A9 X Channel #23
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.255E-1 at 1377.0 Hz.	Maximum = 7.431E-1 at 1353.0 Hz.
Overall or RMS	N/A	N/A



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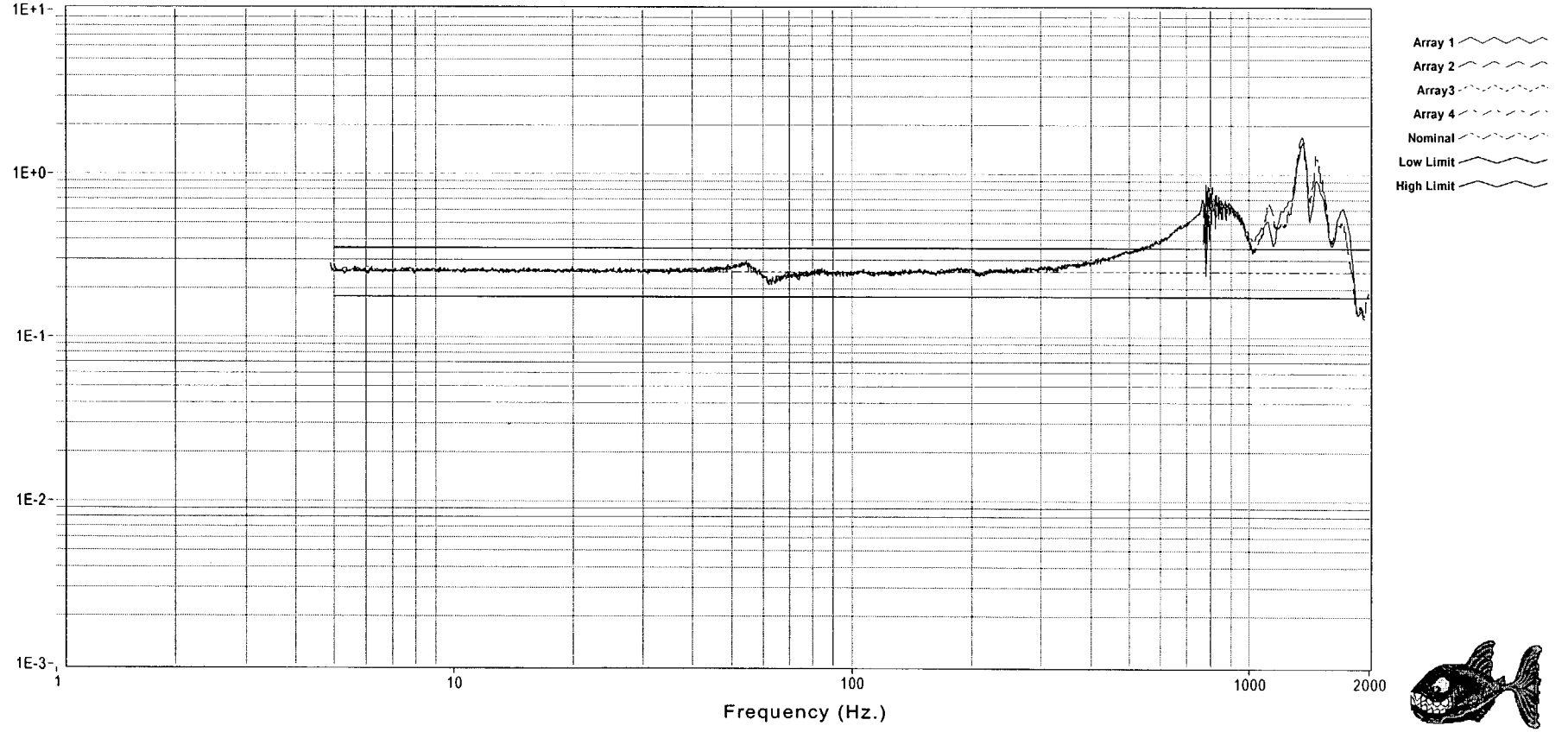
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A9 Y Channel #24	A9 Y Channel #24
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.584E+0 at 1364.0 Hz.	Maximum = 1.702E+0 at 1358.0 Hz.
Overall or RMS	N/A	N/A



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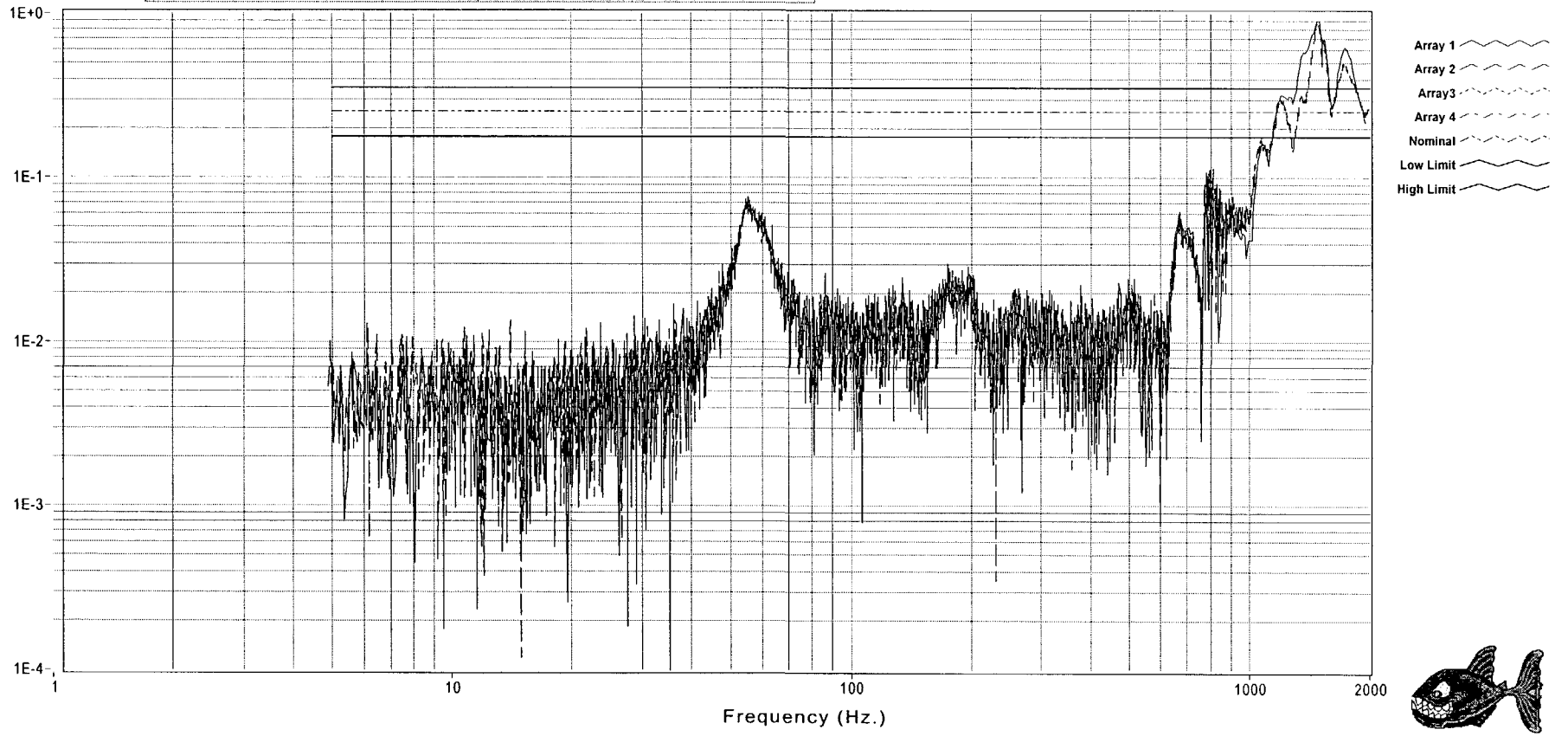
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A9 Z Channel #25	A9 Z Channel #25
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.094E-1 at 1477.0 Hz.	Maximum = 8.734E-1 at 1470.0 Hz.
Overall or RMS	N/A	N/A



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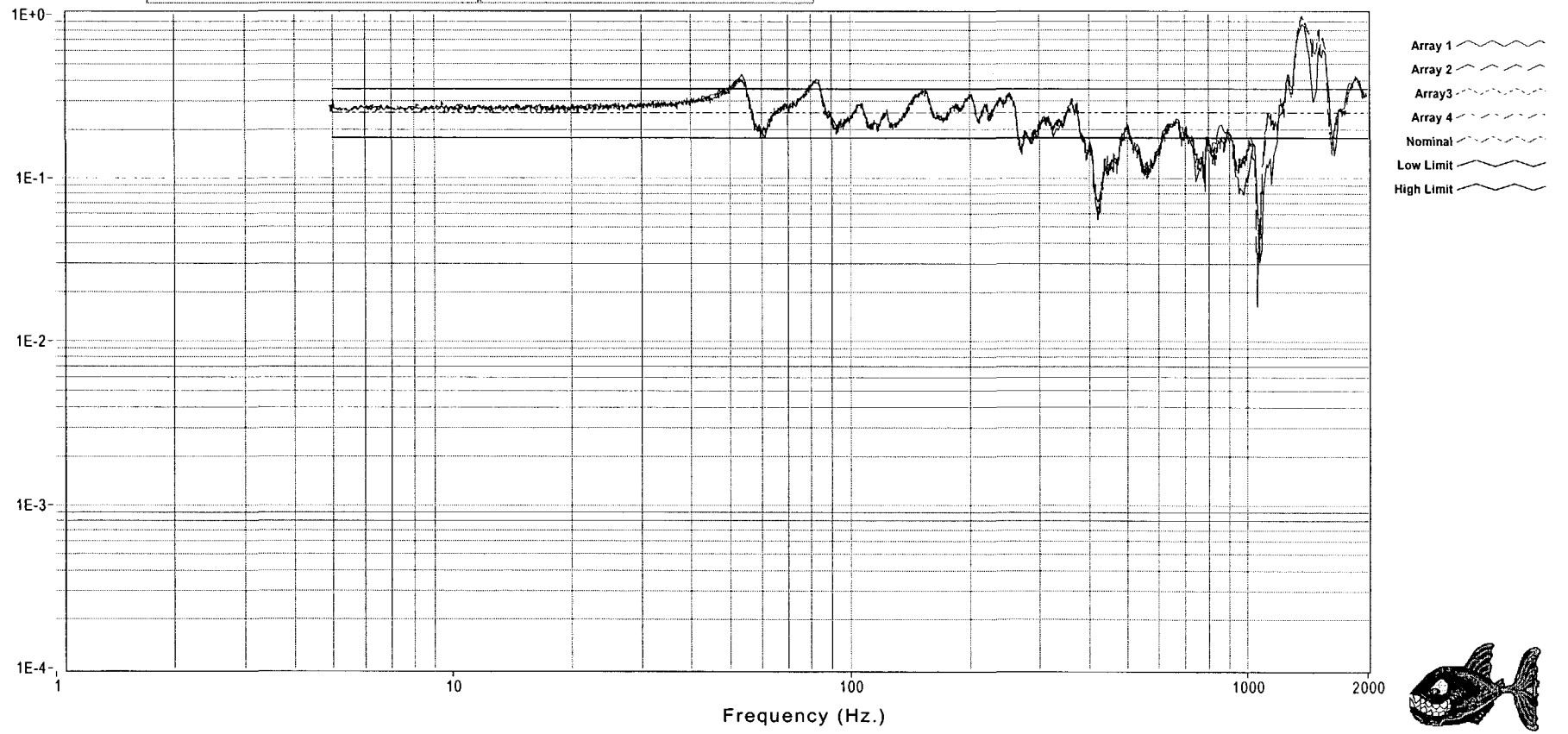
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A10 X Channel #26	A10 X Channel #26
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.744E-1 at 1377.0 Hz.	Maximum = 9.832E-1 at 1376.0 Hz.
Overall or RMS	N/A	N/A



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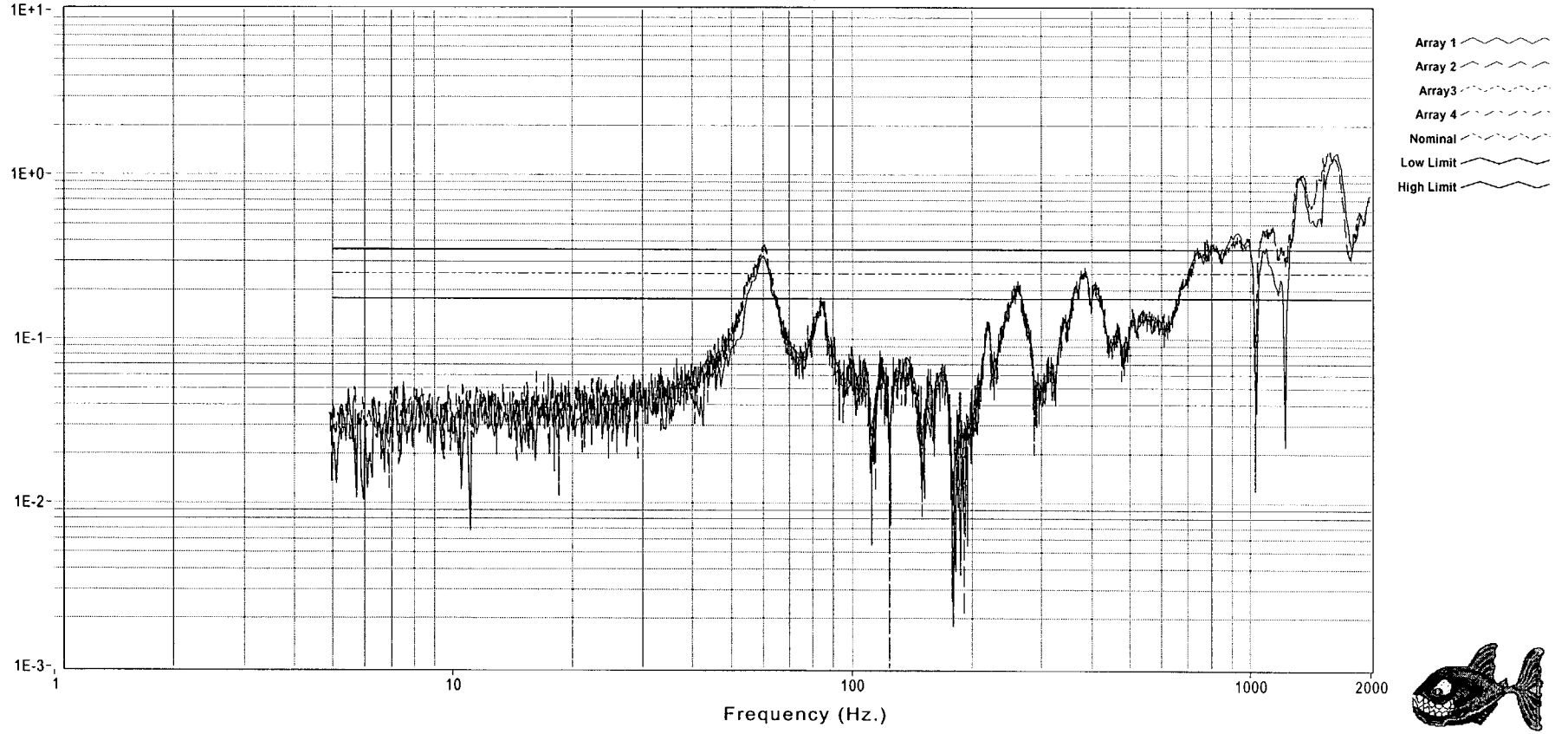
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A10 Y Channel #27	A10 Y Channel #27
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.363E+0 at 1648.0 Hz.	Maximum = 1.405E+0 at 1570.0 Hz.
Overall or RMS	N/A	N/A



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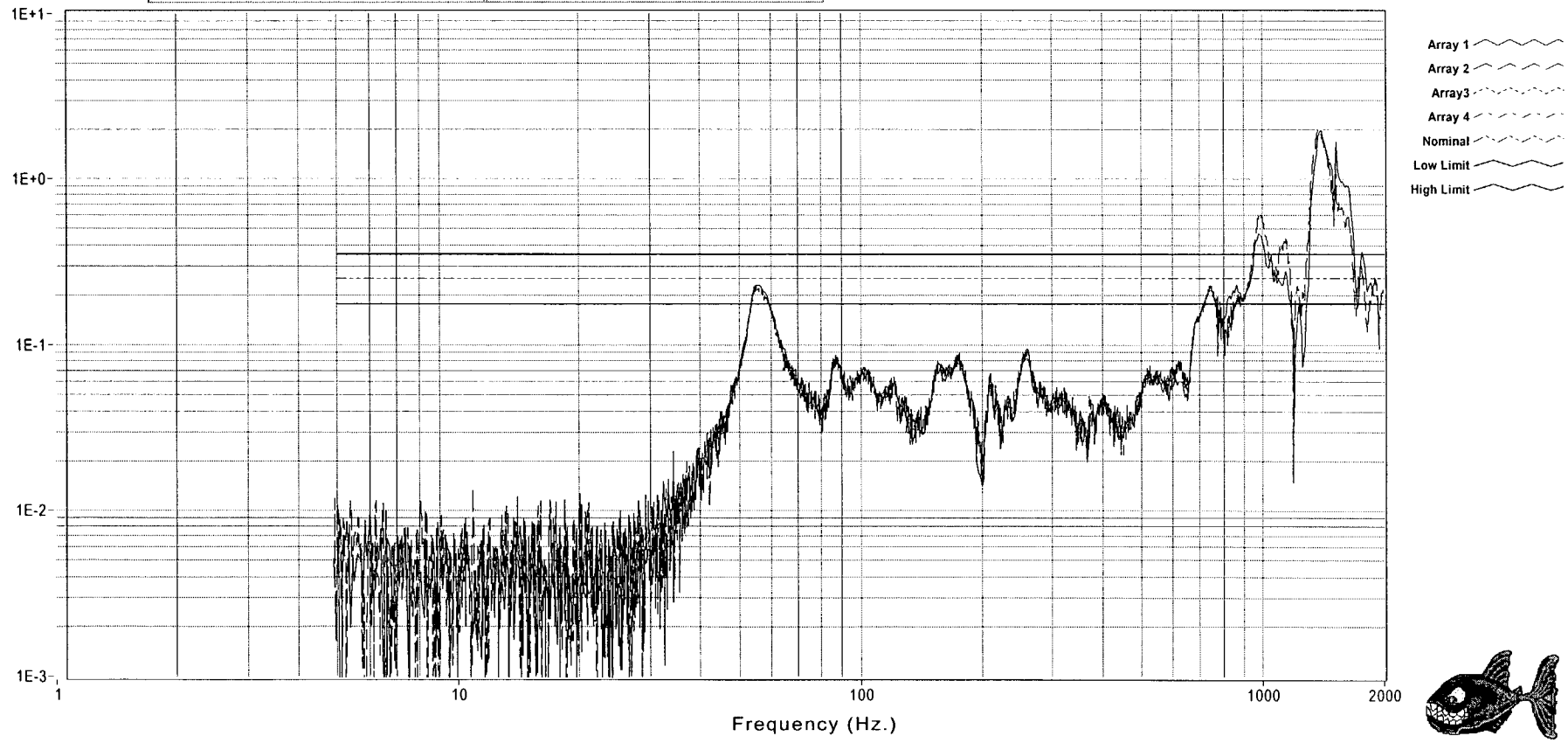
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A10 Z Channel #28	A10 Z Channel #28
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.955E+0 at 1391.0 Hz.	Maximum = 1.982E+0 at 1376.0 Hz.
Overall or RMS	N/A	N/A



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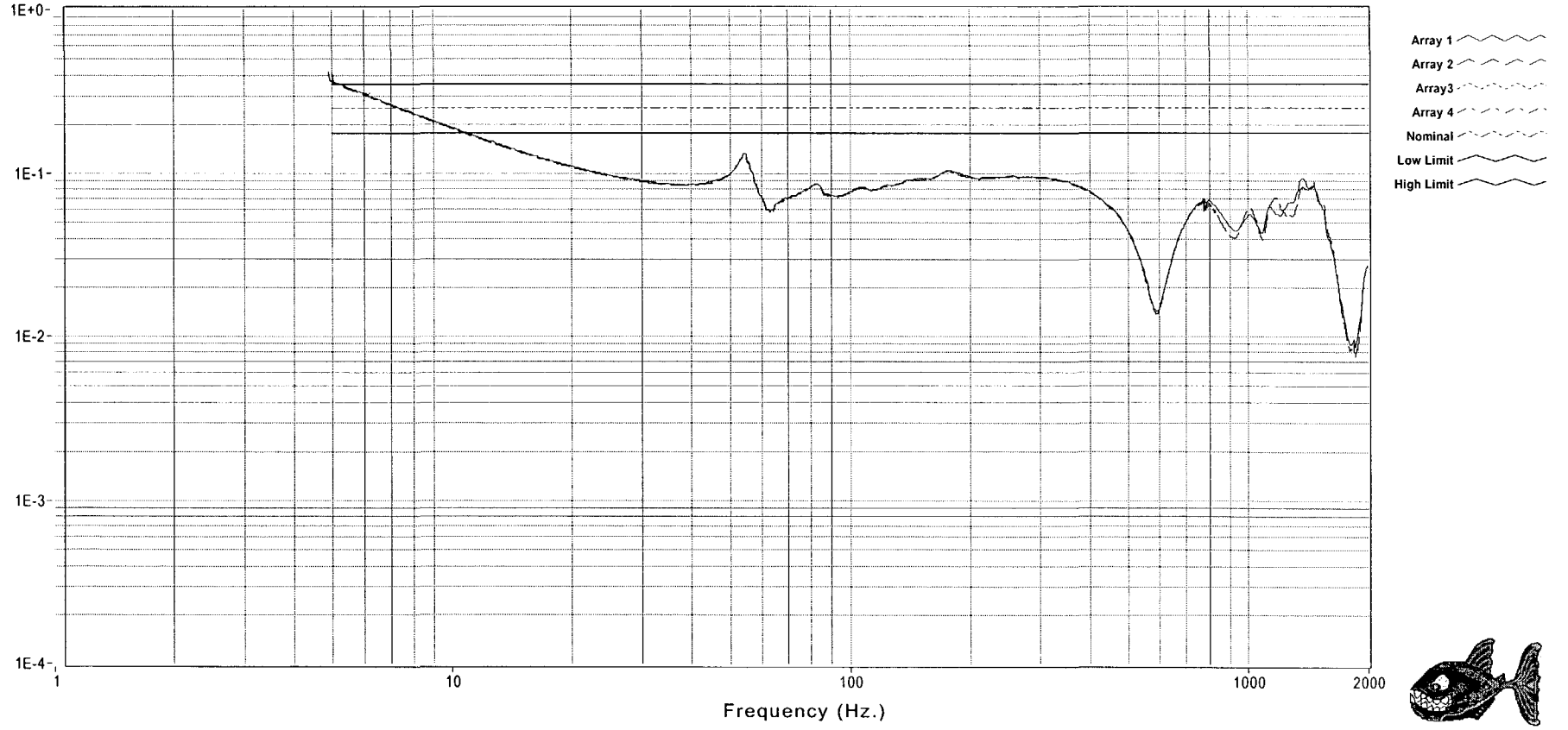
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	DRIVE Channel #31	DRIVE Channel #31
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.118E-1 at 5.0 Hz.	Maximum = 4.156E-1 at 4.9 Hz.
Overall or RMS	N/A	N/A



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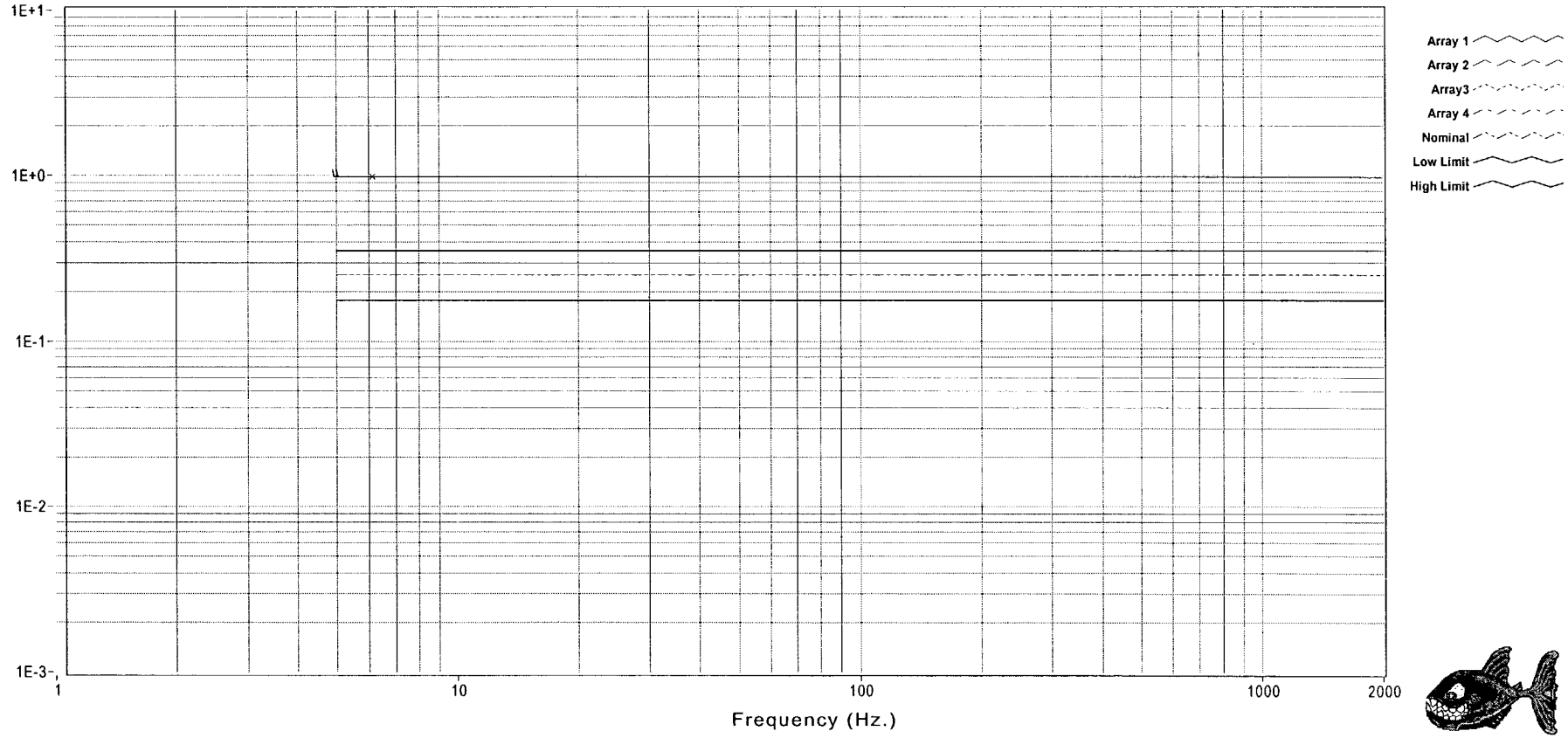
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	COLA Channel #32	COLA Channel #32
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.094E+0 at 5.0 Hz.	Maximum = 1.090E+0 at 4.9 Hz.
Overall or RMS	N/A	N/A



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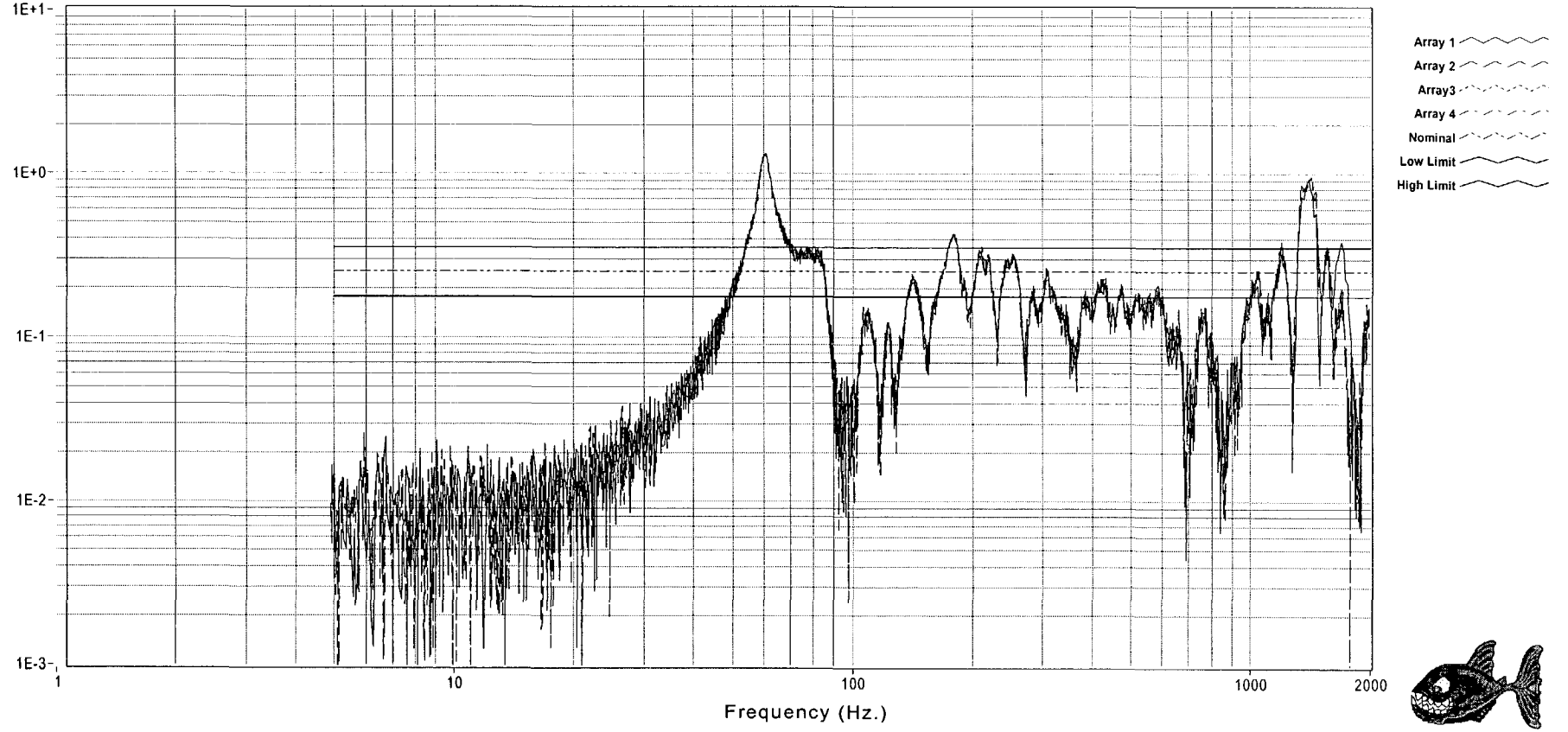
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A1X: +Y PANEL UPPER Channel #33	A1X: +Y PANEL UPPER Channel #33
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 1 SN=AE71-1	BOX 3 CH 1 SN=AE71-1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.305E+0 at 60.6 Hz.	Maximum = 1.324E+0 at 60.7 Hz.
Overall or RMS	N/A	N/A



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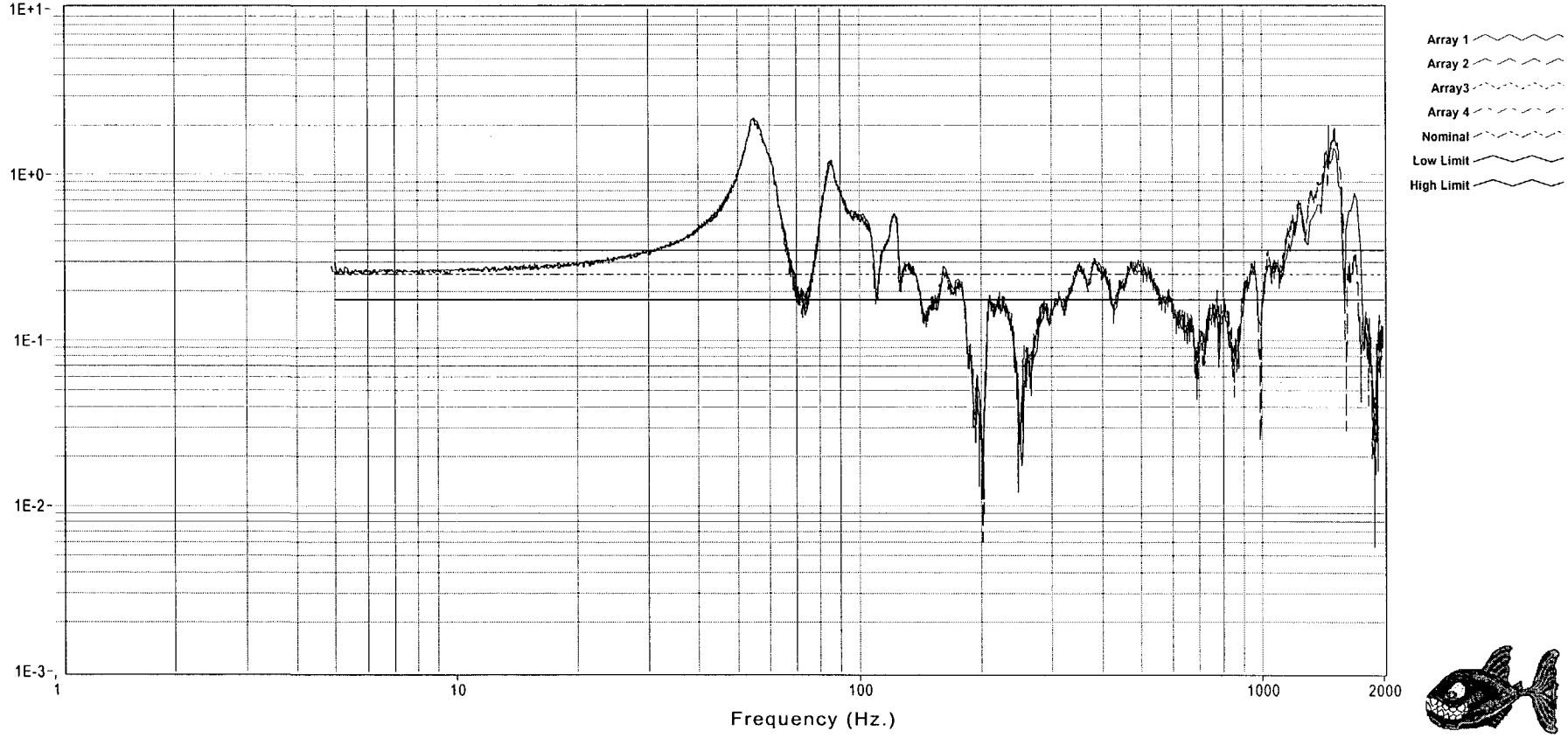
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A1Y: +Y PANEL UPPER Channel #34	A1Y: +Y PANEL UPPER Channel #34
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 2 SN=AC40	BOX 3 CH 2 SN=AC40
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.221E+0 at 54.8 Hz.	Maximum = 2.153E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



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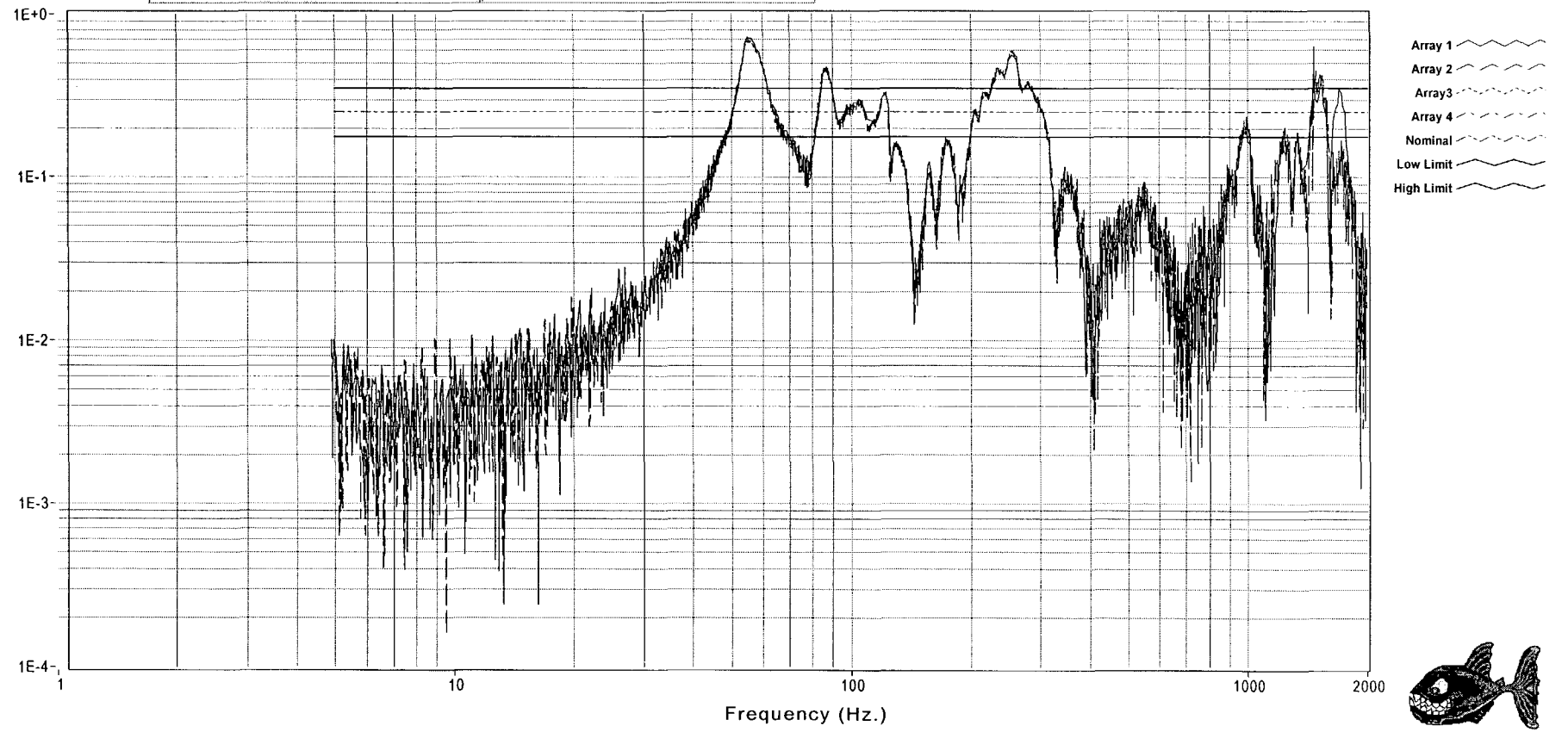
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A1Z: +Y PANEL UPPER Channel #35	A1Z: +Y PANEL UPPER Channel #35
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 3 SN=AD72	BOX 3 CH 3 SN=AD72
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.217E-1 at 54.8 Hz.	Maximum = 7.013E-1 at 55.2 Hz.
Overall or RMS	N/A	N/A



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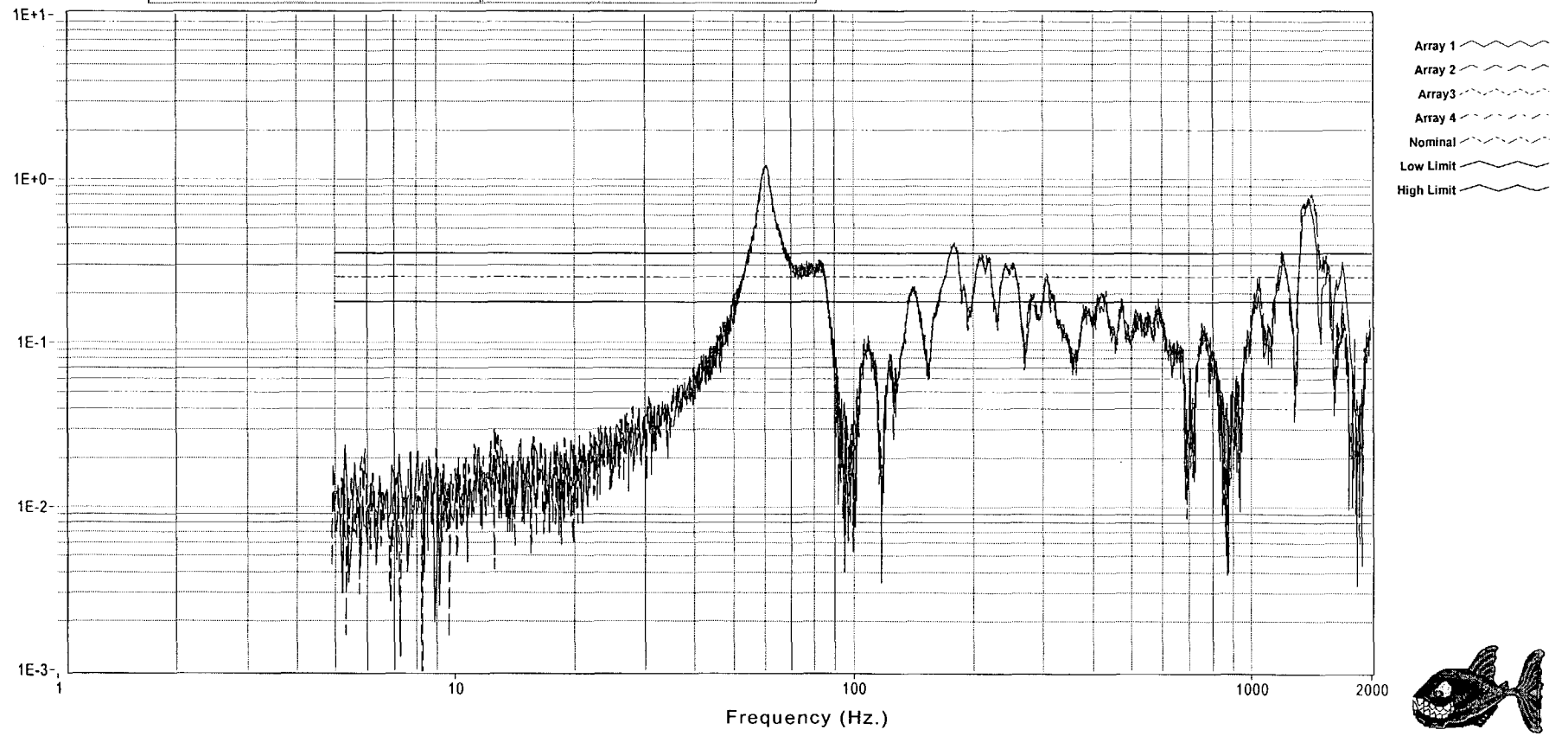
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A1RX: +Y PANEL UPPERChannel #36	A1RX: +Y PANEL UPPERChannel #36
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 4 SN=AF35	BOX 3 CH 4 SN=AF35
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.208E+0 at 60.6 Hz.	Maximum = 1.219E+0 at 60.4 Hz.
Overall or RMS	N/A	N/A



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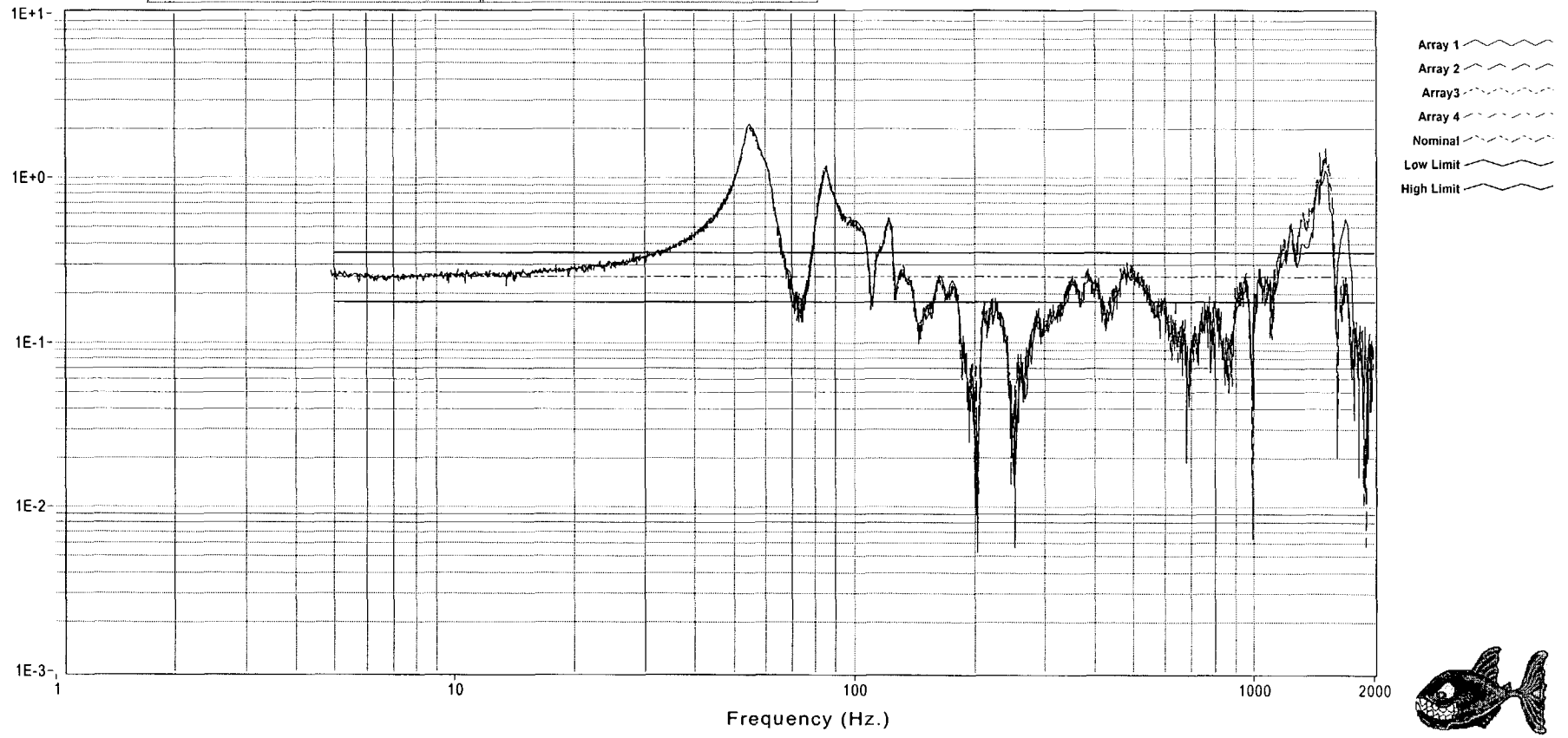
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A1RY: +Y PANEL UPPERChannel #37	A1RY: +Y PANEL UPPERChannel #37
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 5 SN=AB88	BOX 3 CH 5 SN=AB88
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.129E+0 at 54.8 Hz.	Maximum = 2.058E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



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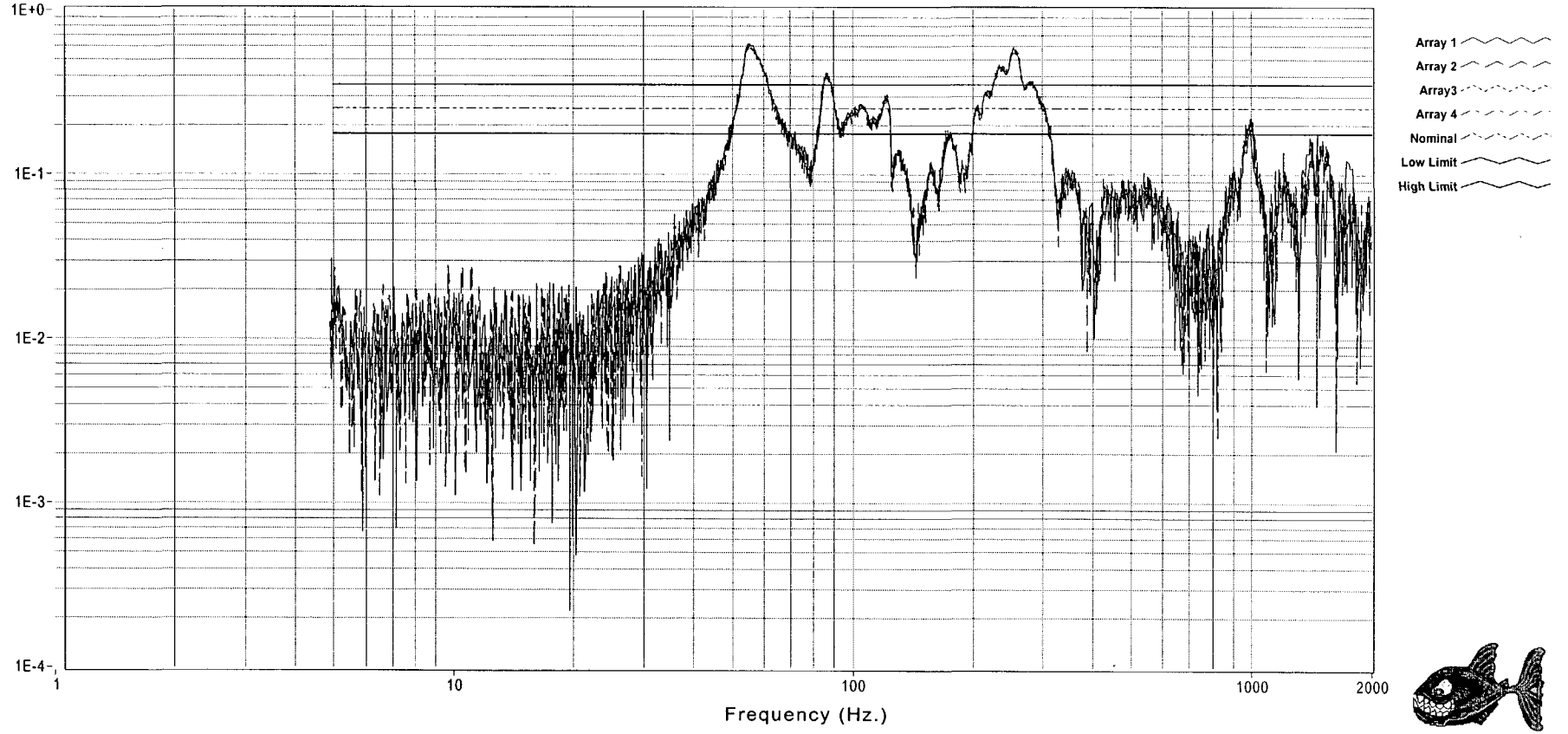
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A1RZ: +Y PANEL UPPERChannel #38	A1RZ: +Y PANEL UPPERChannel #38
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 6 SN=AG51	BOX 3 CH 6 SN=AG51
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.250E-1 at 54.8 Hz.	Maximum = 6.157E-1 at 55.2 Hz.
Overall or RMS	N/A	N/A



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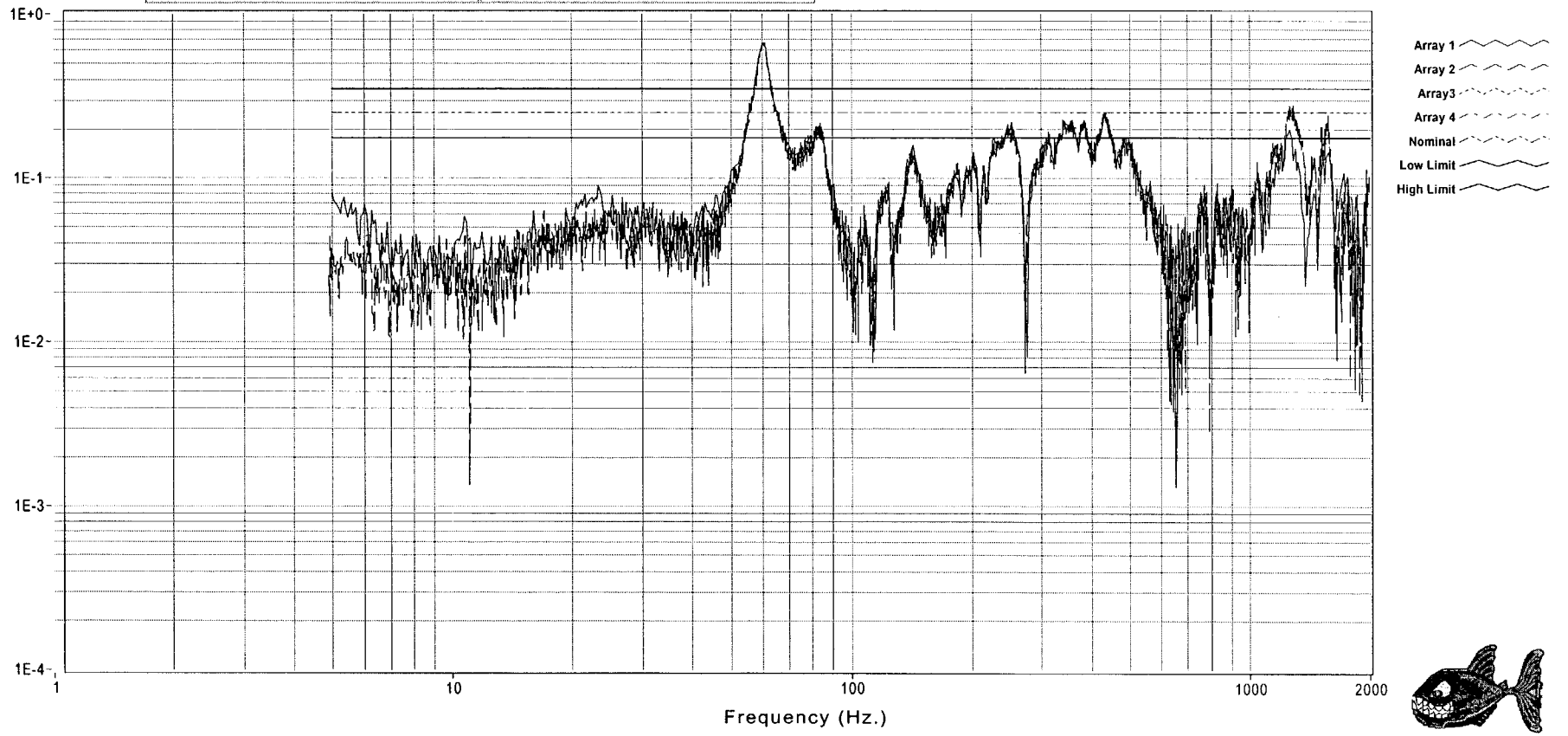
	Array 1	Array 2
	sine_Sine062410	sine_Sine062501
	A2X: +Y PANEL LOWER TEN Channel #39	A2X: +Y PANEL LOWER TEN Channel #39
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 7 SN=AK10	BOX 3 CH 7 SN=AK10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.538E-1 at 60.0 Hz.	Maximum = 6.666E-1 at 60.3 Hz.
Overall or RMS	N/A	N/A



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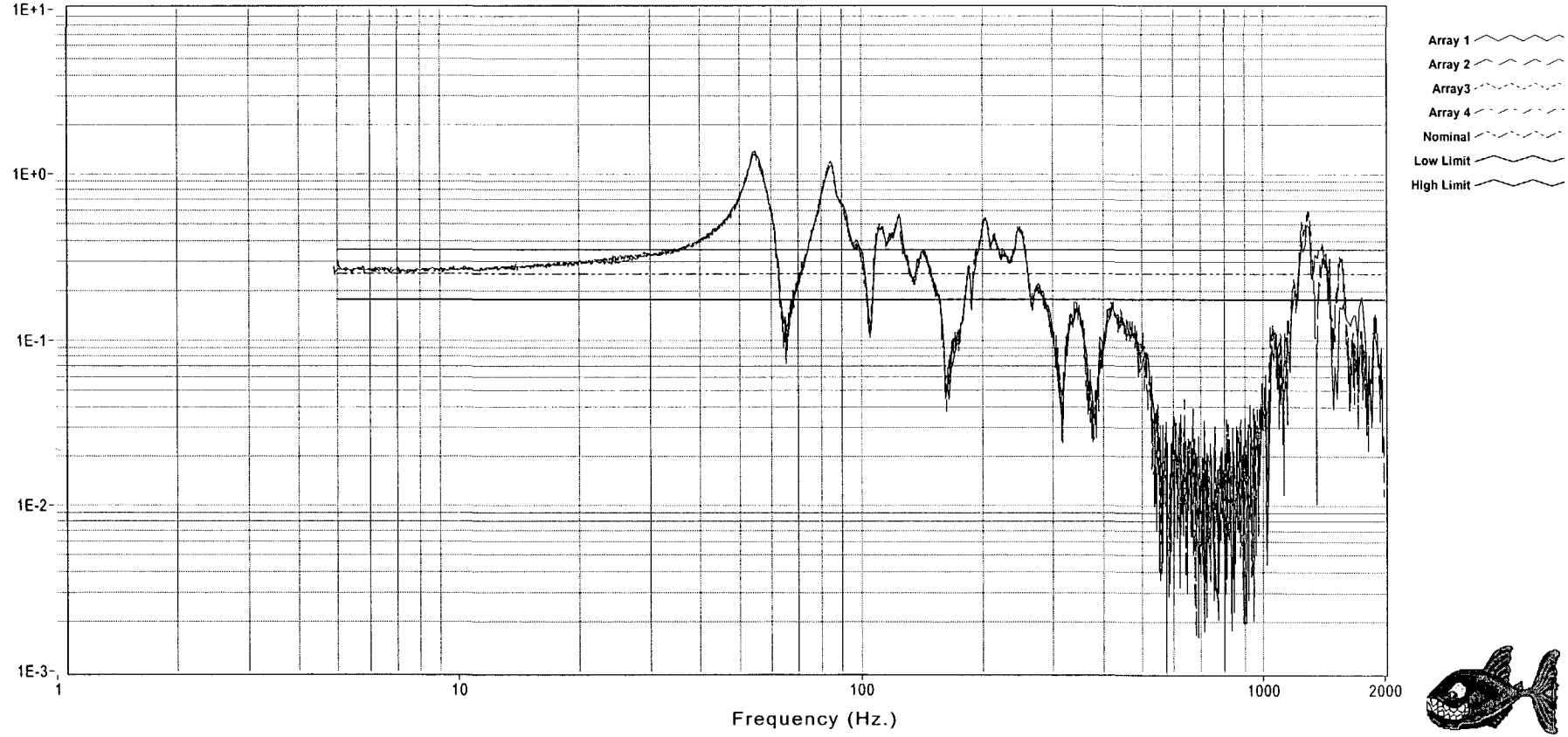
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A2Y: +Y PANEL LOWER CEU Channel #40	A2Y: +Y PANEL LOWER CEU Channel #40
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 8 SN=AB06	BOX 3 CH 8 SN=AB06
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.378E+0 at 54.8 Hz.	Maximum = 1.323E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



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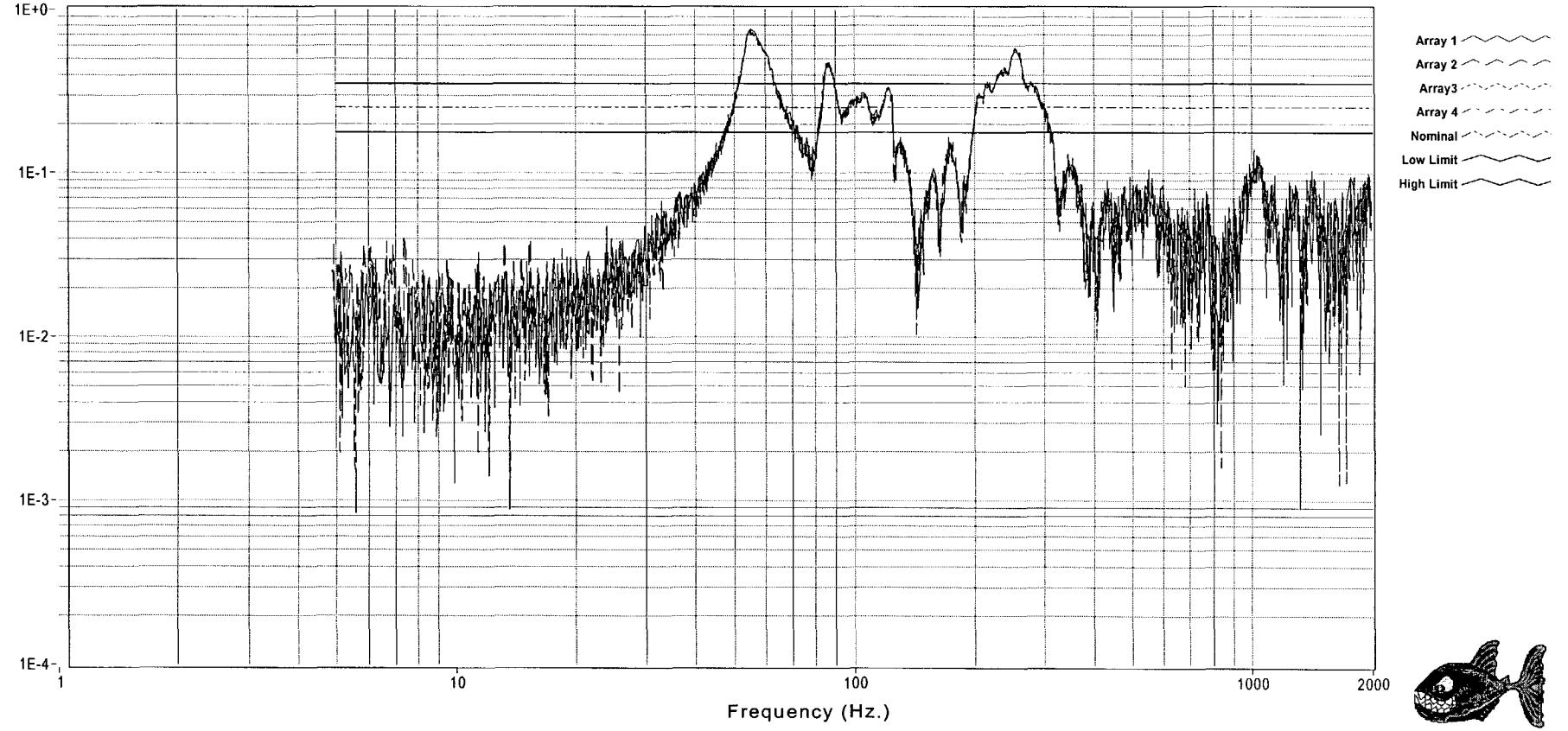
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A2Z: +Y PANEL LOWER CEU Channel #41	A2Z: +Y PANEL LOWER CEU Channel #41
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 9 SN=AF28	BOX 3 CH 9 SN=AF28
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.623E-1 at 55.4 Hz.	Maximum = 7.511E-1 at 55.2 Hz.
Overall or RMS	N/A	N/A



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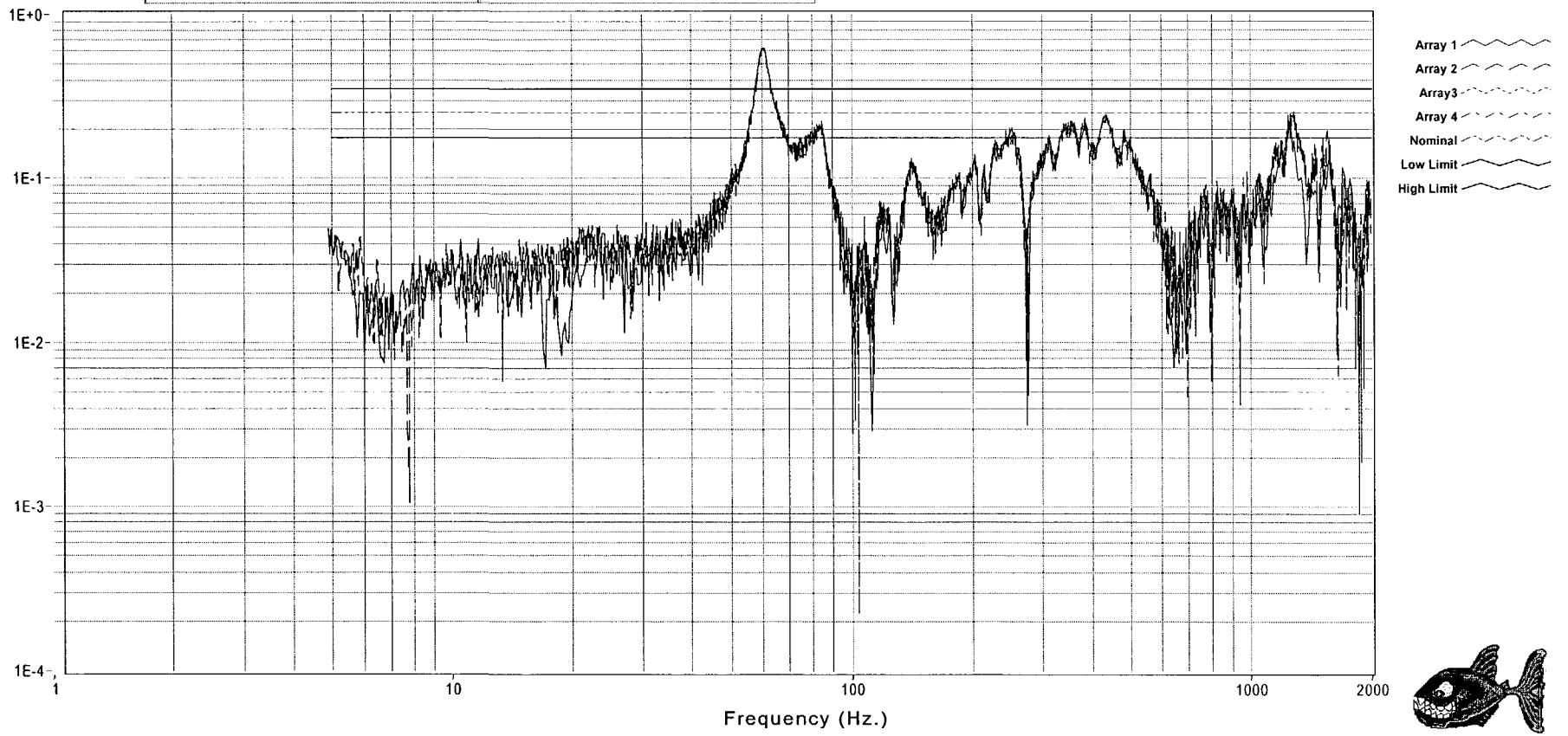
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A2RX: +Y PANEL LOWER TEST Channel #42	A2RX: +Y PANEL LOWER TEST Channel #42
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 10 SN=AJ30	BOX 3 CH 10 SN=AJ30
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.222E-1 at 60.0 Hz.	Maximum = 6.304E-1 at 60.4 Hz.
Overall or RMS	N/A	N/A



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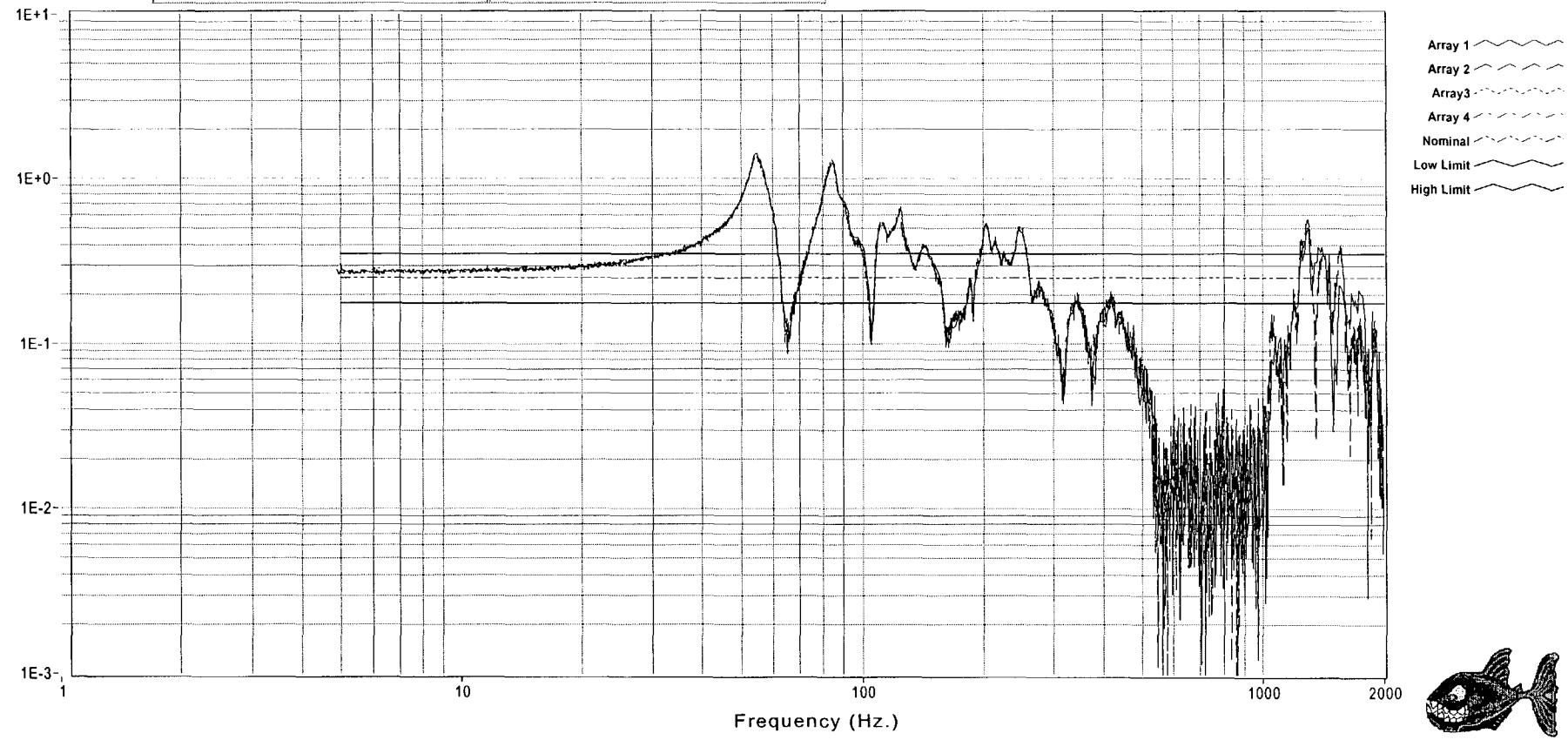
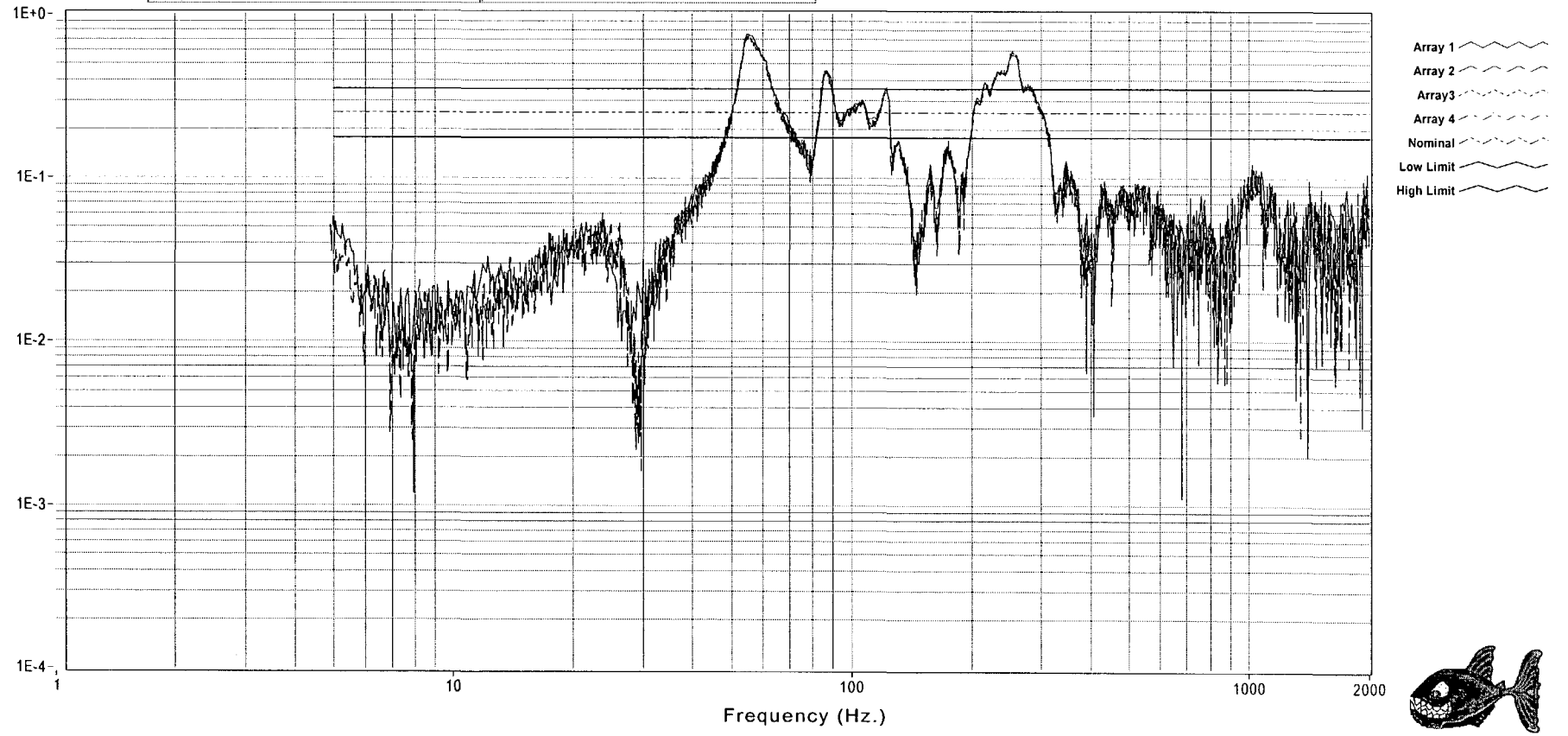
	Array 1	Array 2
	sine_Sine062410	sine_Sine062501
	A2RY: +Y PANEL LOWER CTE Chamber #43	A2RY: +Y PANEL LOWER CTE Chamber #43
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 11 SN=AE60	BOX 3 CH 11 SN=AE60
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.427E+0 at 54.8 Hz.	Maximum = 1.385E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



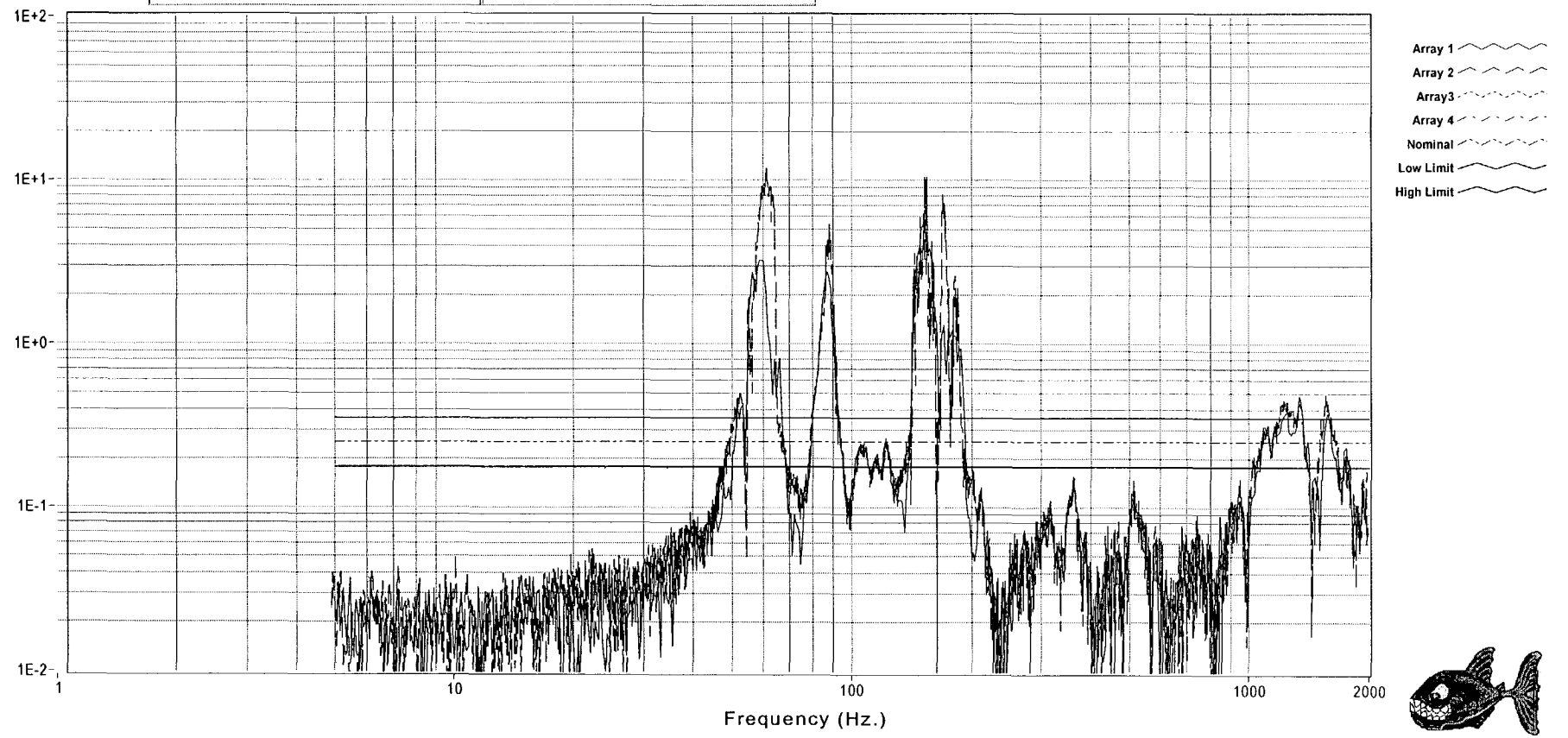
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A2RZ: +Y PANEL LOWER TEST Channel #44	A2RZ: +Y PANEL LOWER TEST Channel #44
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 12 SN=AG01	BOX 3 CH 12 SN=AG01
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.590E-1 at 54.8 Hz.	Maximum = 7.336E-1 at 55.1 Hz.
Overall or RMS	N/A	N/A



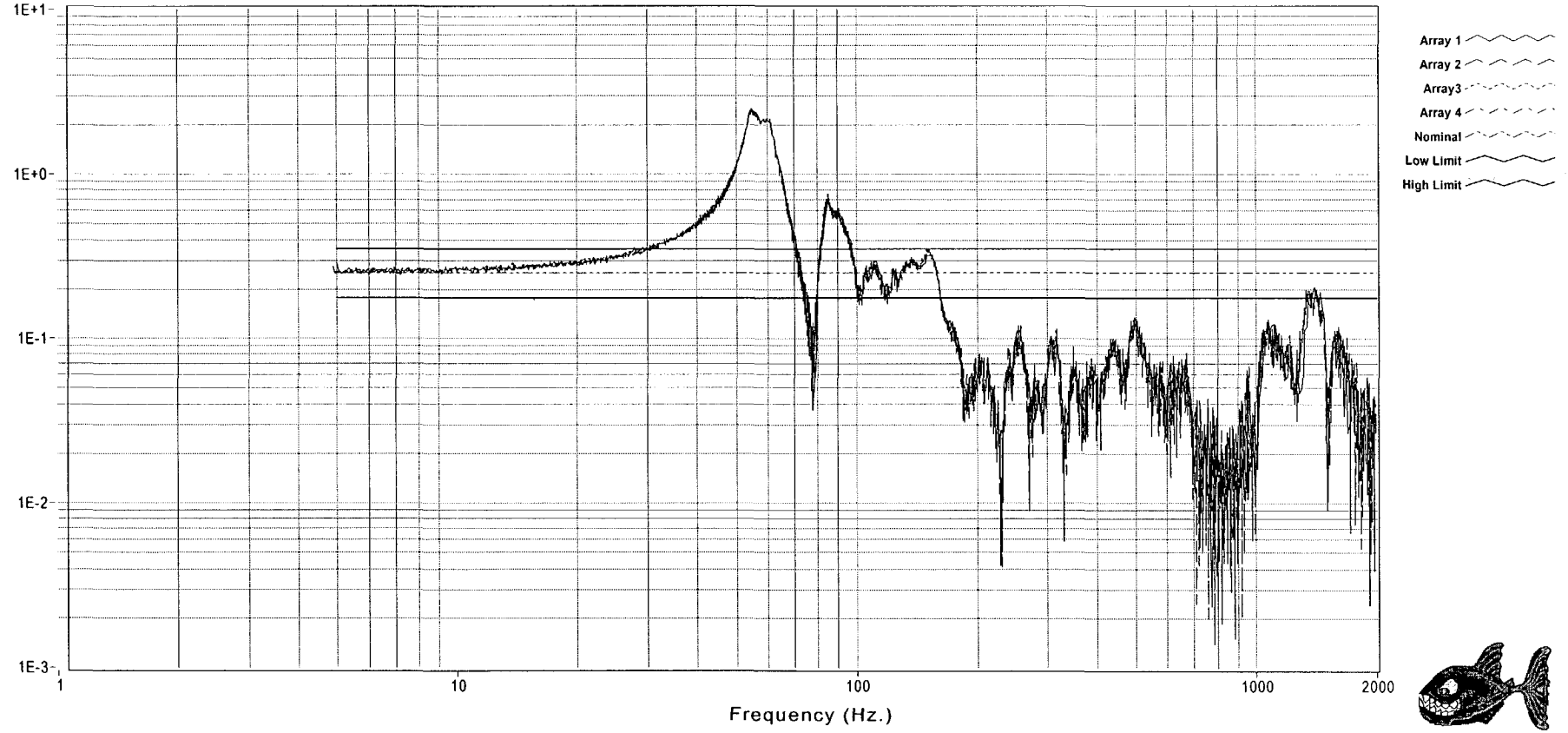
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A3X: +X PANEL UPPER CCChannel #45	A3X: +X PANEL UPPER CCChannel #45
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 13 SN=BC39
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.930E+0 at 152.8 Hz.	Maximum = 1.174E+1 at 61.2 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A3Y: +X PANEL UPPER CCChannel #46	A3Y: +X PANEL UPPER CCChannel #46
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 14 SN=AG02	BOX 3 CH 14 SN=AG02
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.492E+0 at 54.8 Hz.	Maximum = 2.434E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



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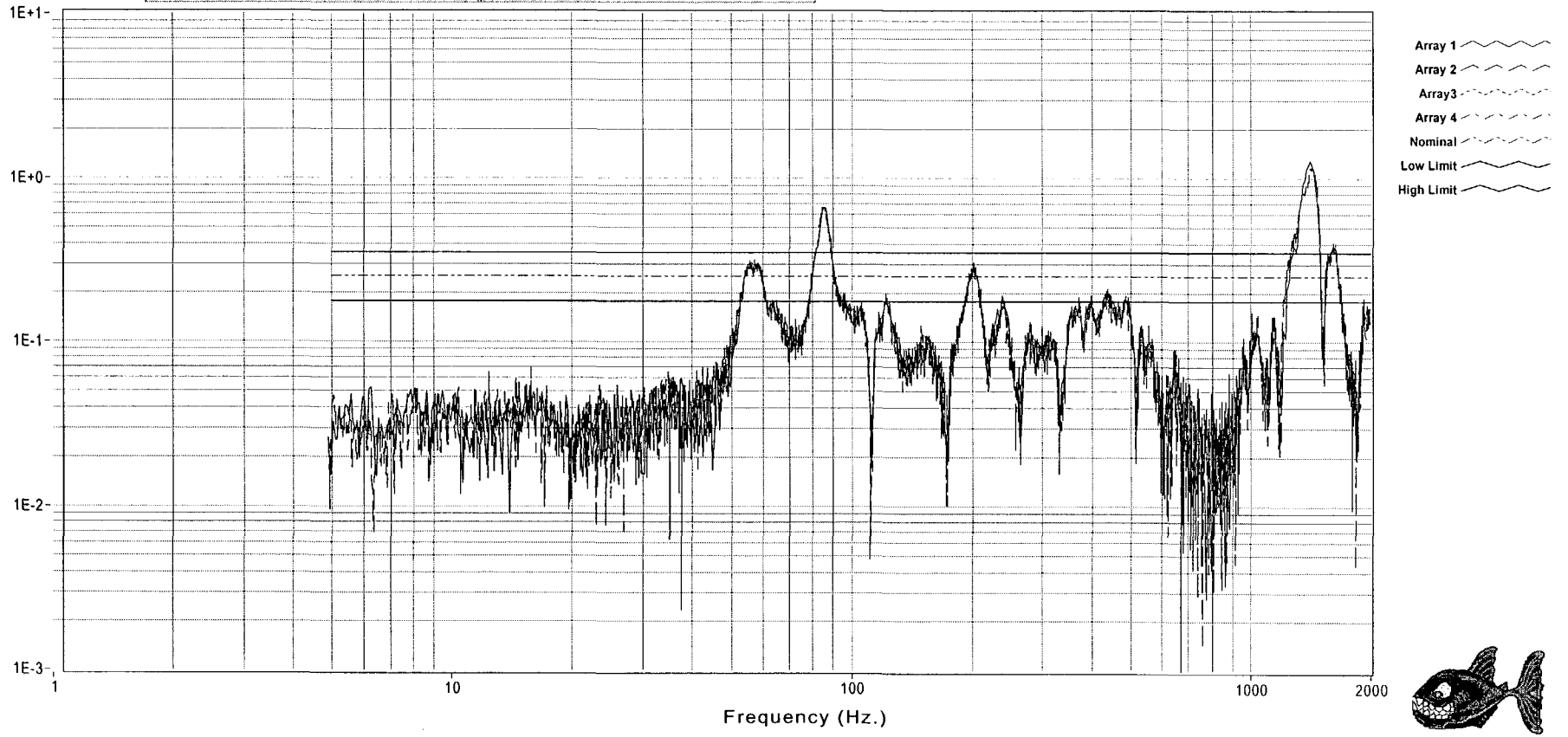
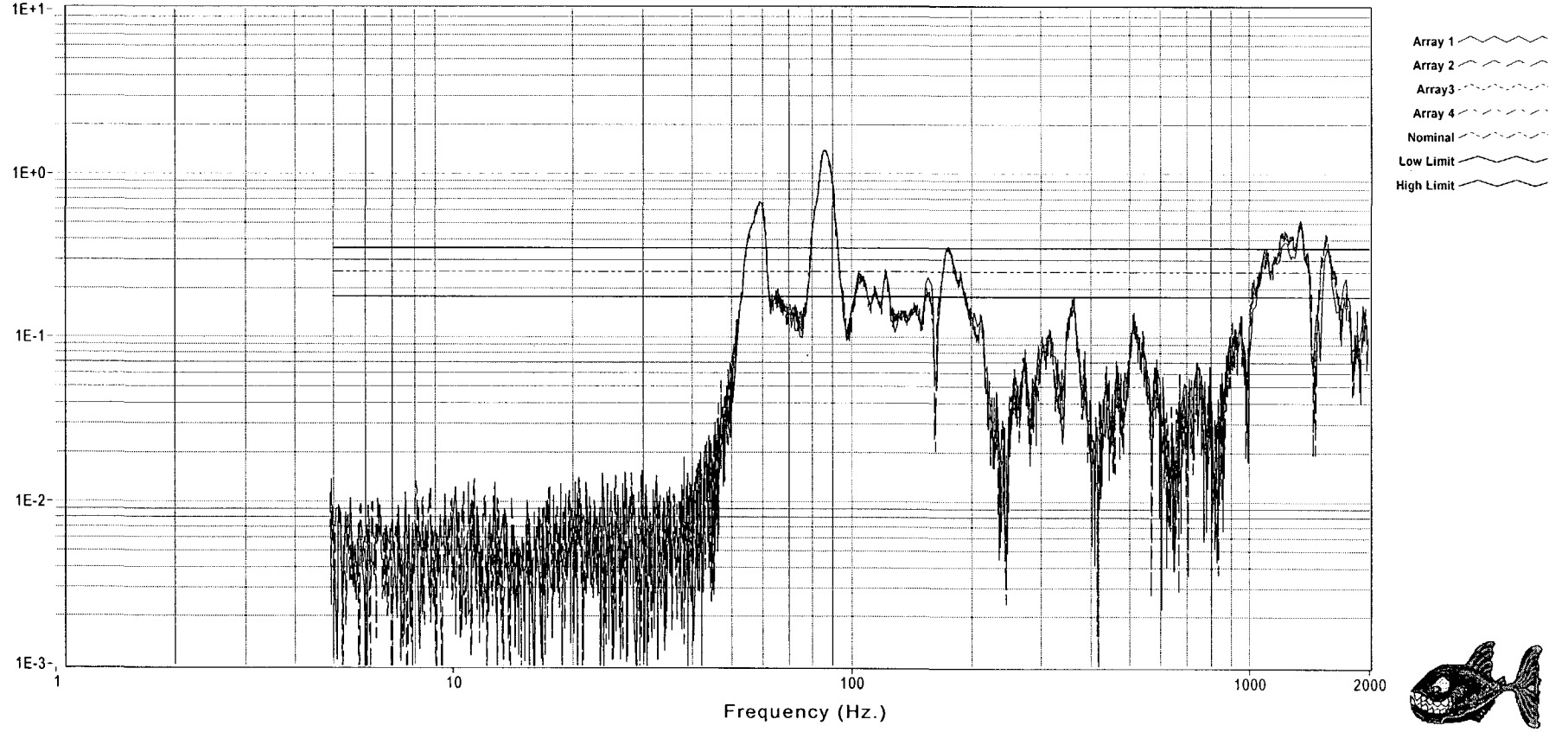
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A3Z: +X PANEL UPPER CCChannel #47	A3Z: +X PANEL UPPER CCChannel #47
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 15 SN=BC12	BOX 3 CH 15 SN=BC12
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.279E+0 at 1405.0 Hz.	Maximum = 1.172E+0 at 1422.0 Hz.
Overall or RMS	N/A	N/A



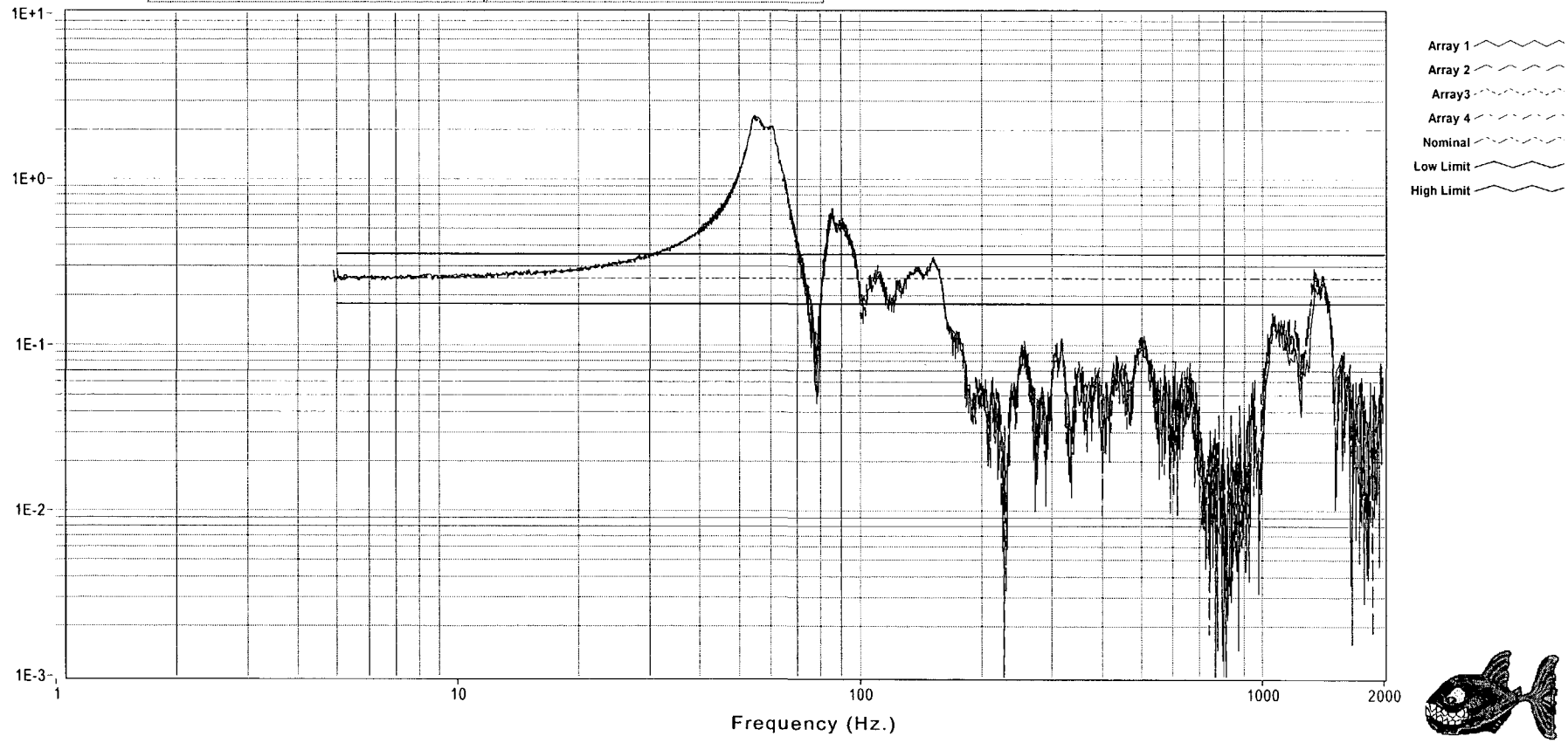
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062410	sine_Sine062501
	A3RX: +X PANEL UPPER CCU Channel #48	A3RX: +X PANEL UPPER CCU Channel #48
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 3 CH 16 SN=AE43	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.411E+0 at 85.8 Hz.	Maximum = 1.410E+0 at 85.3 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062410	sine_Sine062501
	A3RY: +X PANEL UPPER CCU Channel #49	A3RY: +X PANEL UPPER CCU Channel #49
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 1 SN=AF57	BOX 4 CH 1 SN=AF57
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.431E+0 at 54.8 Hz.	Maximum = 2.384E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



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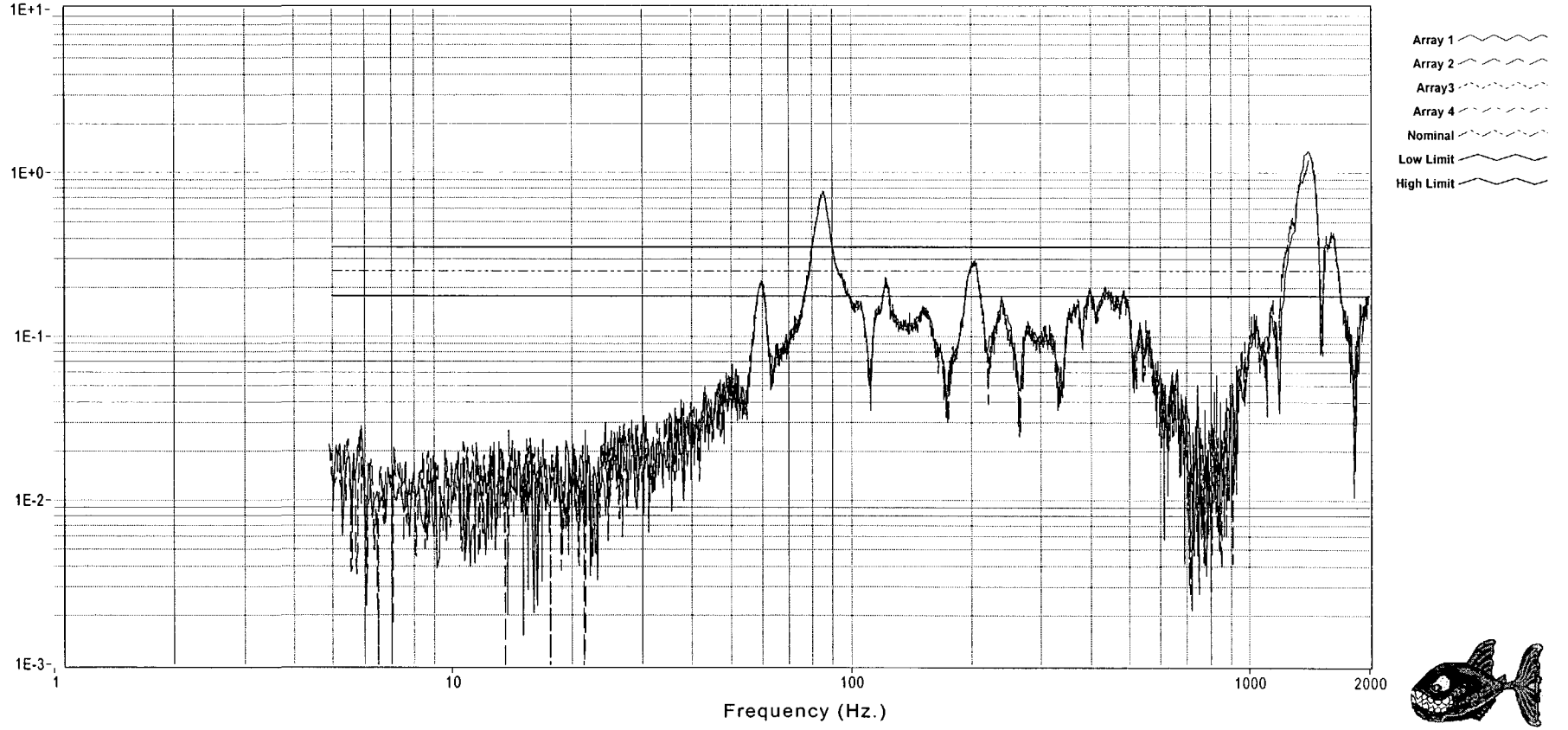
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A3RZ: +X PANEL UPPER CG Channel #50	A3RZ: +X PANEL UPPER CG Channel #50
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 2 SN=AB65	BOX 4 CH 2 SN=AB65
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.364E+0 at 1405.0 Hz.	Maximum = 1.262E+0 at 1417.0 Hz.
Overall or RMS	N/A	N/A



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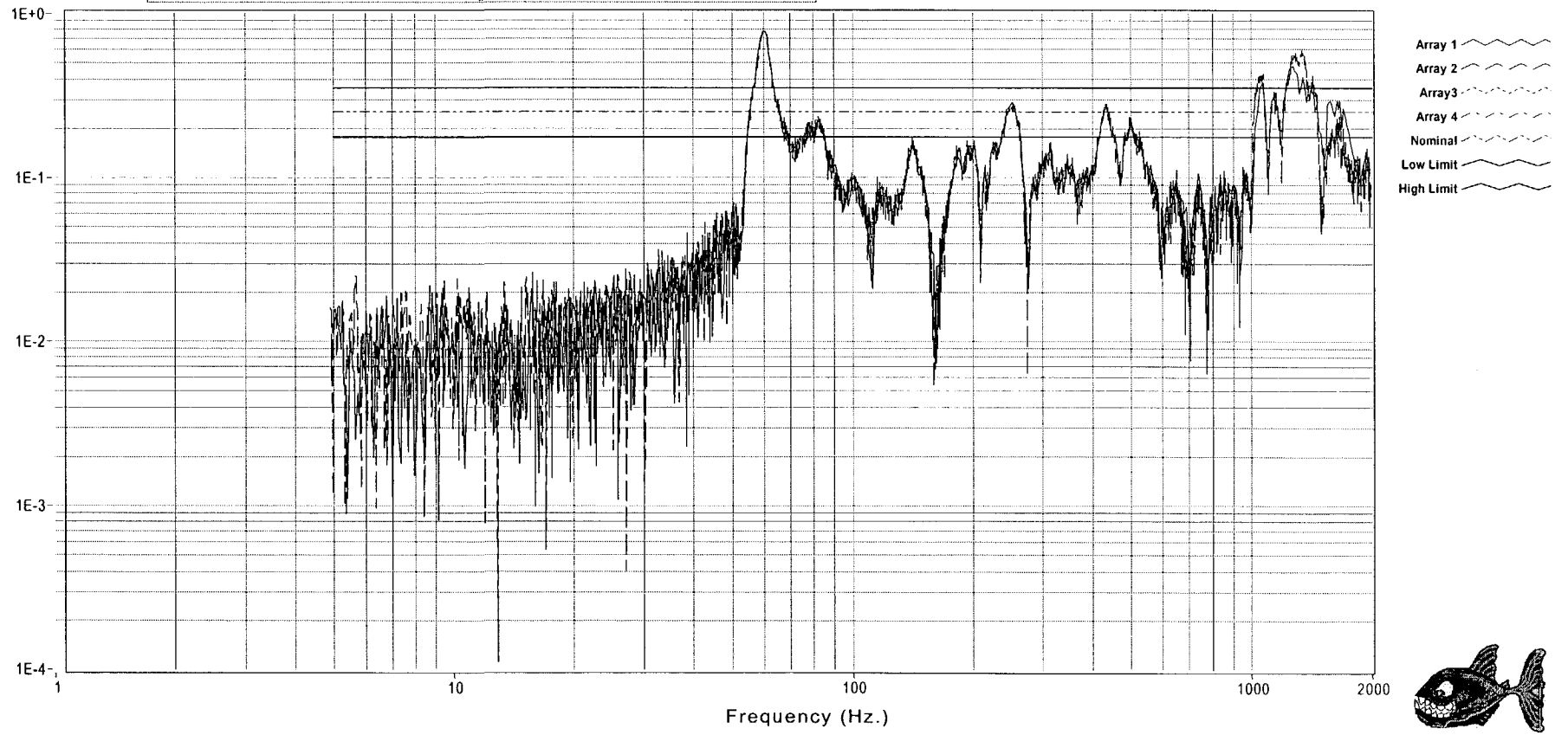
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A4X: +Y PANEL MID-CMUChannel #51	A4X: +Y PANEL MID-CMUChannel #51
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 3 SN=AH55	BOX 4 CH 3 SN=AH55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.832E-1 at 60.0 Hz.	Maximum = 7.885E-1 at 60.0 Hz.
Overall or RMS	N/A	N/A



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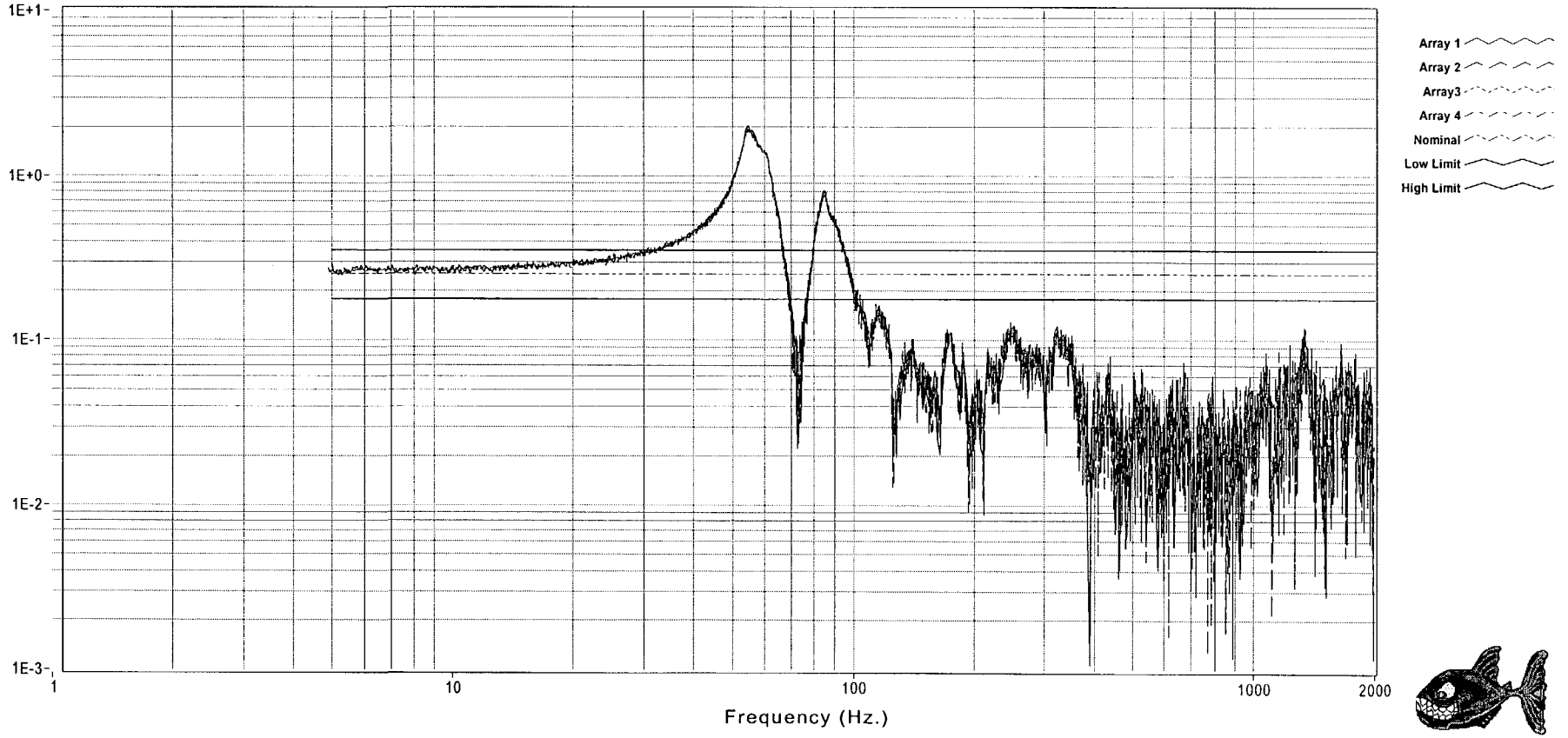
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A4Y: +Y PANEL MID-CMUChannel #52	A4Y: +Y PANEL MID-CMUChannel #52
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 4 SN=AJ95	BOX 4 CH 4 SN=AJ95
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.010E+0 at 54.8 Hz.	Maximum = 1.928E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



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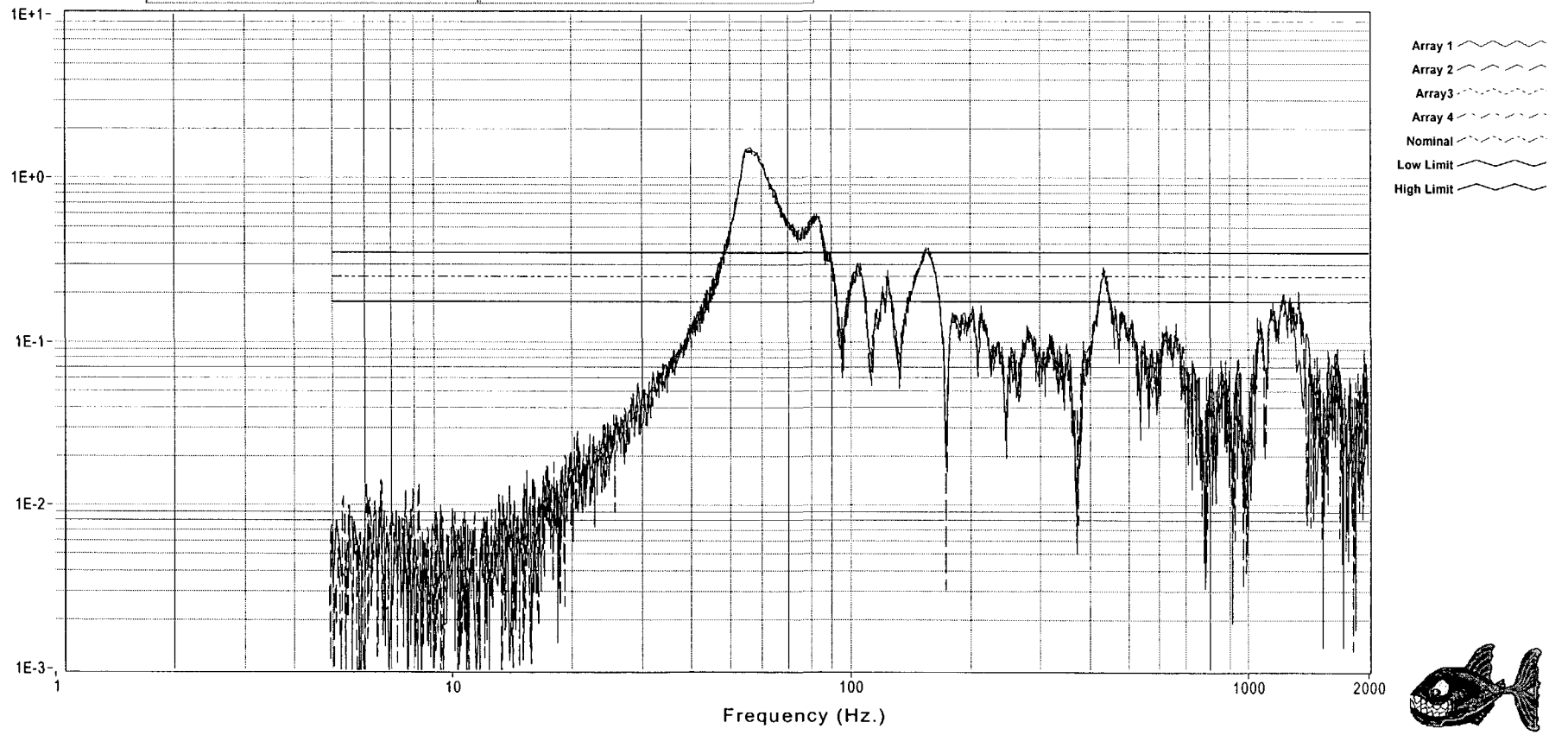
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A4Z: +Y PANEL MID-CMUChannel #53	A4Z: +Y PANEL MID-CMUChannel #53
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 5 SN=AB55	BOX 4 CH 5 SN=AB55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.532E+0 at 56.5 Hz.	Maximum = 1.480E+0 at 55.2 Hz.
Overall or RMS	N/A	N/A



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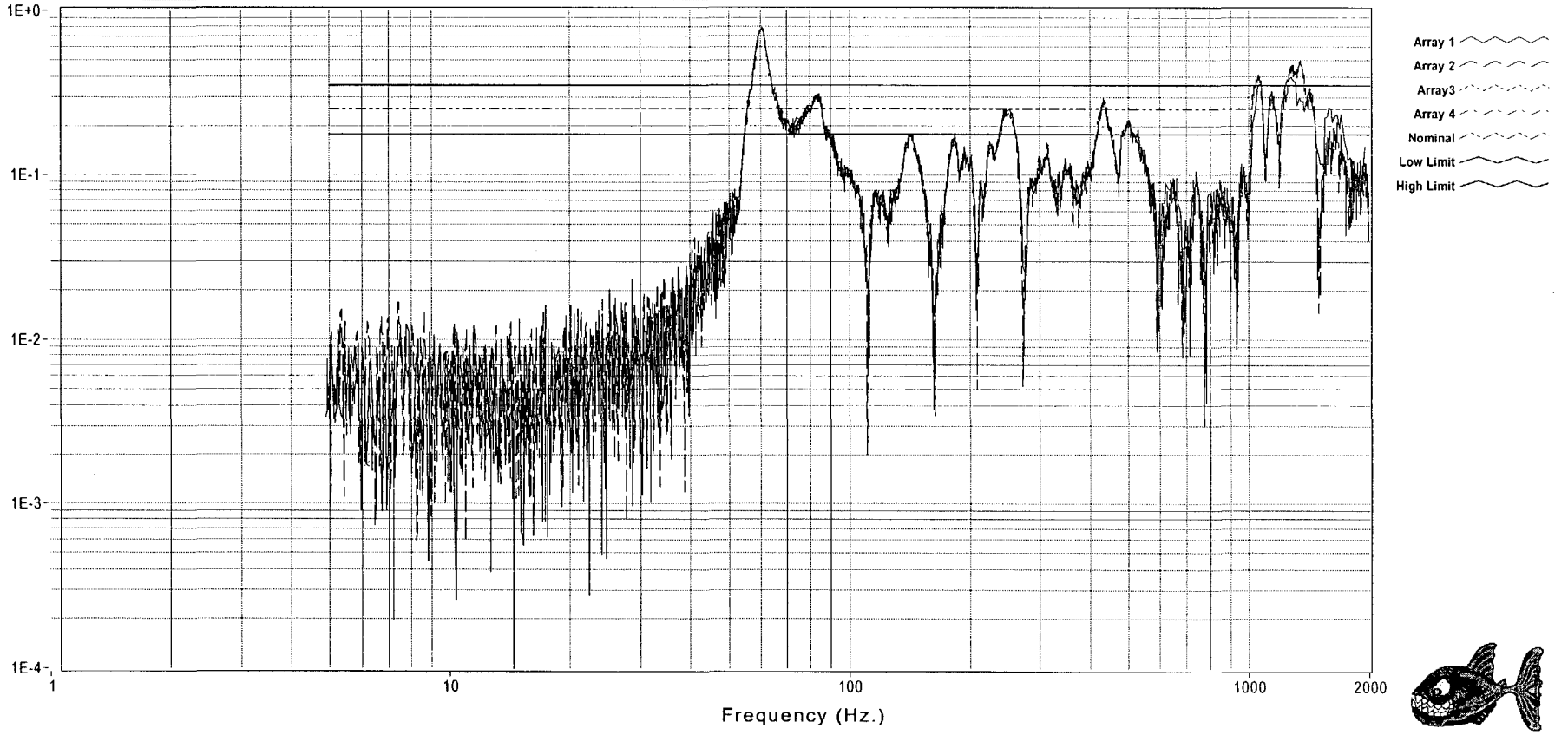
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A4RX: +Y PANEL MID-CMCChannel #54	A4RX: +Y PANEL MID-CMCChannel #54
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 6 SN=AF10	BOX 4 CH 6 SN=AF10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.817E-1 at 60.6 Hz.	Maximum = 7.875E-1 at 60.6 Hz.
Overall or RMS	N/A	N/A



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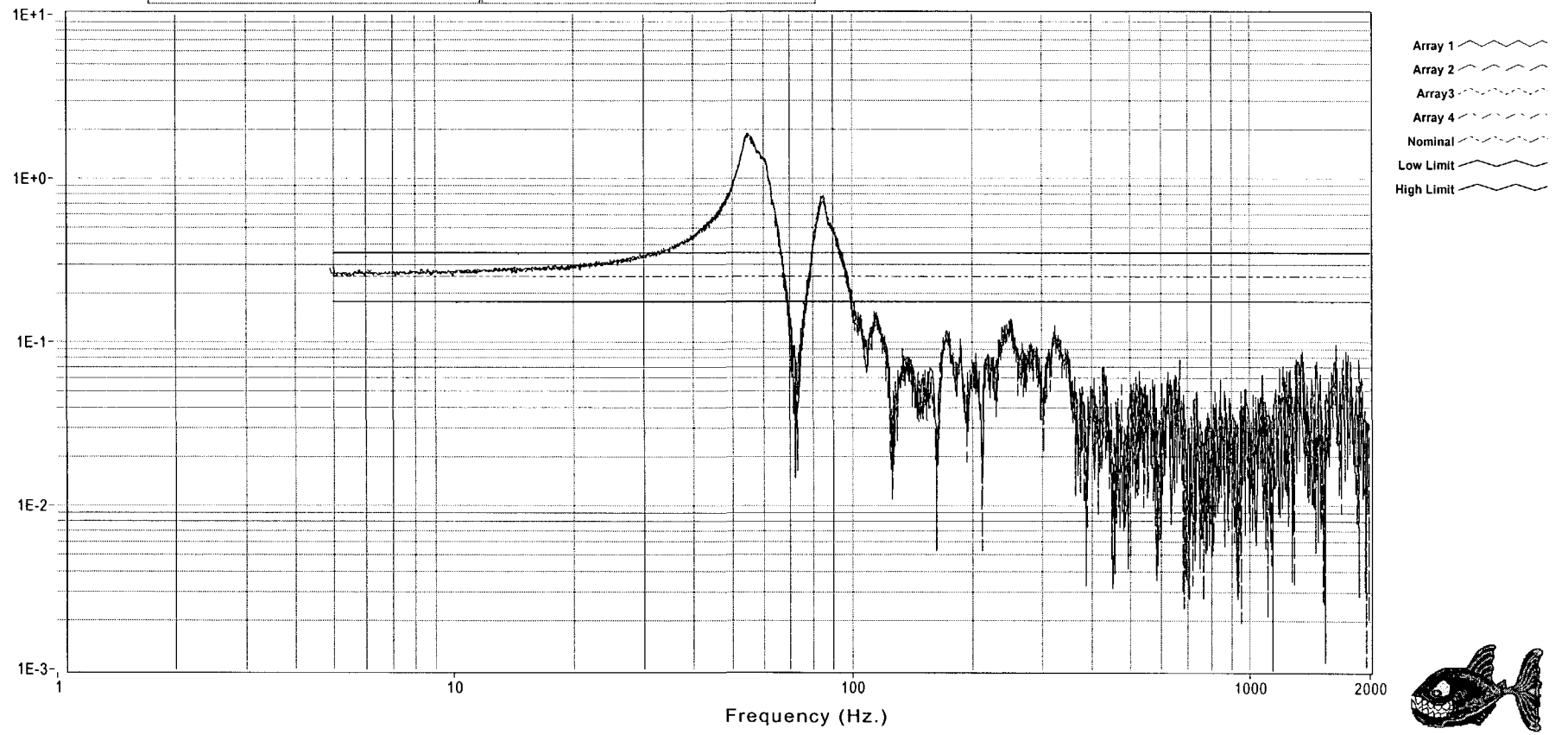
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A4RY: +Y PANEL MID-CMCChannel #55	A4RY: +Y PANEL MID-CMCChannel #55
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 7 SN=AF56	BOX 4 CH 7 SN=AF56
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.886E+0 at 54.8 Hz.	Maximum = 1.836E+0 at 54.6 Hz.
Overall or RMS	N/A	N/A



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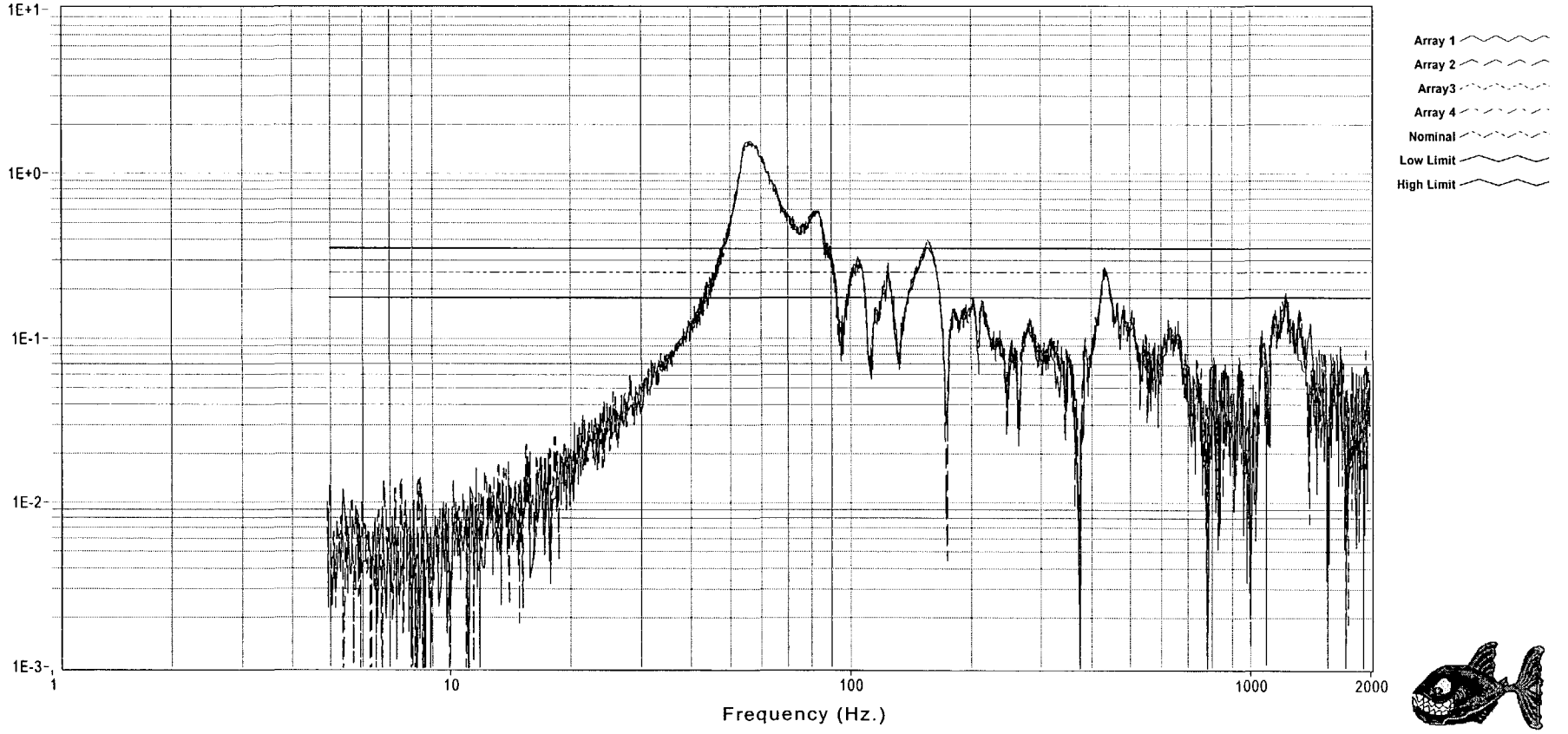
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	A4RZ: +Y PANEL MID-CMOchannel #56	A4RZ: +Y PANEL MID-CMOchannel #56
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 8 SN=AD53	BOX 4 CH 8 SN=AD53
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.587E+0 at 56.5 Hz.	Maximum = 1.546E+0 at 55.8 Hz.
Overall or RMS	N/A	N/A



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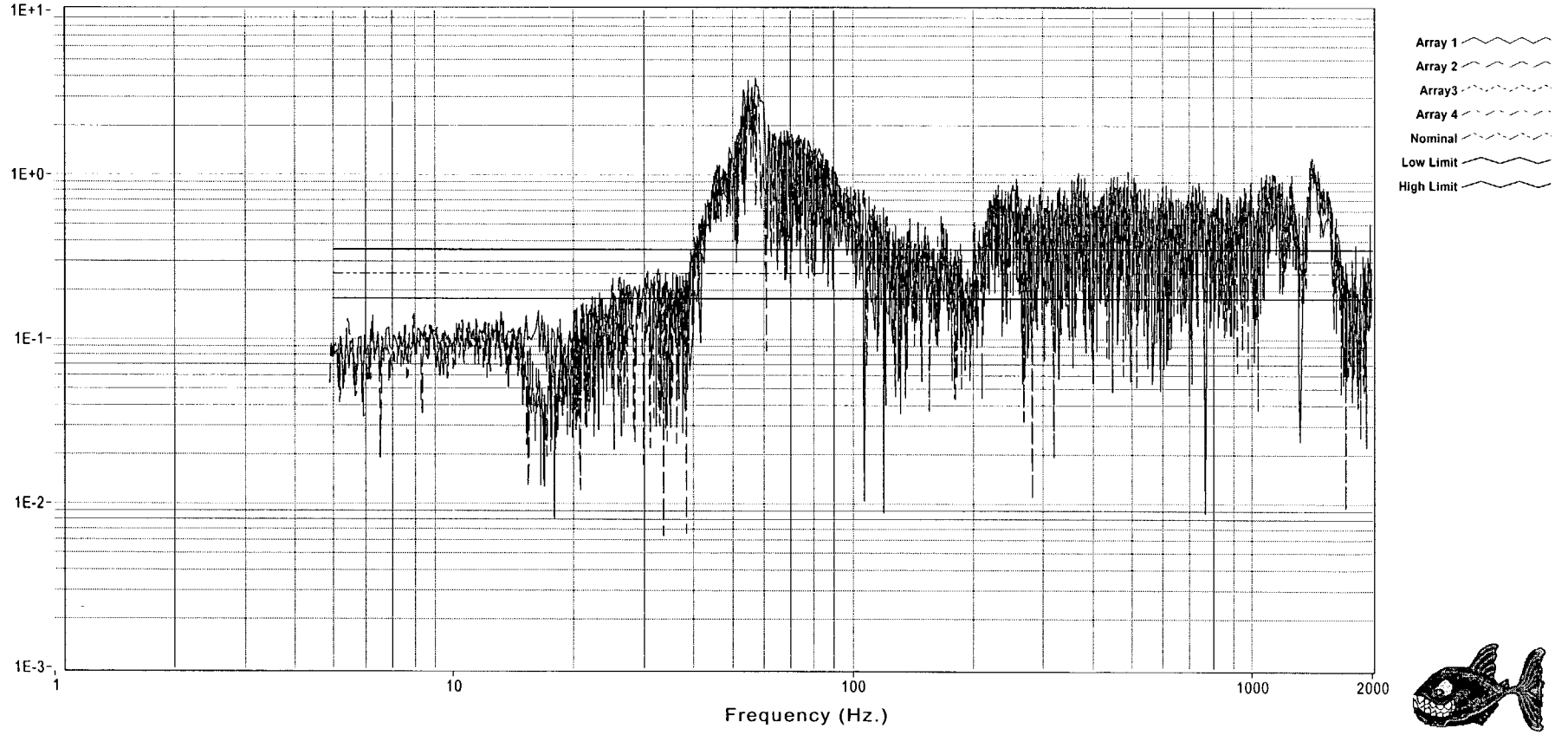
	Array 1 sine_Sine062410	Array 2 sine_Sine062501
	F1: FLY AWAY Channel #57	F1: FLY AWAY Channel #57
Test Title	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test ID	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test Description	HIRDLS VIBRATION TEST: Y-AXIS .25	HIRDLS VIBRATION TEST: Y-AXIS POST
Test File Number	062410	062501
Test Date/Time	24-Jun-2002 17:46:12	25-Jun-2002 0:5:36
Channel Description	BOX 4 CH 9 SN=BF27	BOX 4 CH 9 SN=BF27
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.00 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.914E+0 at 57.0 Hz.	Maximum = 3.793E+0 at 55.0 Hz.
Overall or RMS	N/A	N/A



TR-LOC-1025
Volume 3

HIRDLS Instrument

Vibration Test

Data

X Axis

80 COLUMN WORK SHEET

MODULE	ORGN.	BLDG.	FAC.	PAGE OF	PROGRAMMER	ORGN.	EXT.	JOB NO.	REQUEST DATE	DISPATCH NO.	PROGRAM/DESCRIPTION	OPER. CONTROL NO.	DATE NEEDED	PRIORITY

Hang) Please Include this information in your test report

Minh Phan

62407 ⇒ Post sig
62405 ⇒ Mid "
62401 ⇒ Pre "

(301) 286-8325

Monday 6/24/08

1) Review Pre & Post Signature overlay from the X-Axis Vib Test.

- Noticed the large Signature change in chanel 45 (43X) both in magnitude & Freq.
  - * Pre Signature shows double peaks @ 70Hz, and Post Signature does not
  - * " " " a large amplitude change in the Freq Range From 136 Hz to 200 Hz
- Further investigation of the test data:
  - a) Replot the overlay of chanel 45 (Pre & Post Signature Overlay; using diff scale for Frequency Axis)
    ⇒ Shows Signature change
  - b) Replot the Signature plot of each individual Pre & Post signature for Chanel 45
    ⇒ Shows Signature change
  - c) Plot the overlay of Post X-Axis Signatures of Chanel 45 (43X) and Chanel 48 (Redundant 43X)
    ⇒ Same Signatures for chanels 45 & 48.
  - d) Plot the overlay of Mid X-axis signature for chanel 45 and chanel 48
    ⇒ Same Signatures for chanel 45 & 48
- Conclusion:
  - a) Signatures show no problem with the HIRDLS Structure.
  - b) Pre X-Axis signature of chanel 45 shall not be used for any evaluation
  - c) There is an unditerminied problem of chanel 45 accelerometer @ the begining of X-Axis shake. Problem disappear (Acc. settled) after Pre X-axis shake, and performed normally from the mid signature test

d). 48 channel looks fine; 48 is the redundant

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FORM LMSC 2374-2

80 COLUMN WORK SHEET

MODULE	ORGN.	BLDG.	FAC.	PAGE OF	PROGRAMMER	ORGN.	EXT.	JOB NO.	REQUEST DATE	DISPATCH NO.	PROGRAM/DESCRIPTION	OPER. CONTROL NO.	DATE NEEDED	PRIORITY

Monday 6/24/02

2) Reviewed Plots of chanel 57 (Fly away acc)

* The sine sweep test data still shows that there is some undetermine problem of chanel 57 (bad acc., or wire, or noise, ??)

* However, random test data (lower resolution) shows the accelerometer/chanel 57 tracked the structure response during the -12, -6, 0 db random test well.

* => Still do Not know the problem of chanel 57

* => If certained close-out panel of the HIRDLS is removed in the feutere, it is recommend that LMCO to inspect/replace/or remove this accelerometer.

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FORM LMSC 2374-2

80 COLUMN WORK SHEET

MODULE	ORGN.	BLDG.	FAC.	PAGE OF	PROGRAMMER	ORGN.	EXT.	JOB NO.	REQUEST DATE	DISPATCH NO.	PROGRAM/DESCRIPTION	OPER. CONTROL NO.	DATE NEEDED	PRIORITY

X - Axis (Sunday, 6/23/02 → Monday, 6/24/02)

Mount interface plate to shaker slip 5:15 pm

Bare Fixture 1/4 g Sine Sweep 10:30 pm

Mount the interface GSE to fixture place 10:45 pm

1/4 g Sine Sweep 12:30 PM

Random Vibration -12dB 2:43 Am (Monday, 6/24/02)

Random Vibration -6dB 3:30 AM

Check ~~torque~~ 4:00 Am

Random Vibration 0 dB 4:10 Am

1/4 sine Sweep 4:44 Am

Sine Sweep 6:00 Am

1/4g Sine Sweep 6:30 AM

Remove test article from the shaker table [Authorize to break the test conf @ 8:30 AM
Dremed & went in @ 11:00 AM to Remove Instrumat & Reconfigure for Y-axis test

LOCKHEED AIRCRAFT CORPORATION

FORM LMSC 237

CYGinn

HIRDLS RANDOM ANALYSIS, 3/19/02

- X, Y AND Z AXIS BASEDRIVES PERFORMED TO DETERMINE NOTCHING GUIDELINES FOR HIRDLS INSTRUMENT TESTING
- ANALYSIS PERFORMED ON HIRDLS VLA MODEL WITH TRW FLIGHT MOUNT STIFFNESS INCORPORATED
- ANALYSIS PARAMETERS
  - MODES RETAINED TO 500 HZ
  - Q = 20
  - ANALYSIS INPUT PSD SPEC: .01 G^2/HZ, 20 TO 500 HZ
  - PSD LIMITS PLACED ON EXISTING ACCELEROMETER LOCATIONS TO KEEP INSTRUMENT INTERFACE LOADS CONSISTENT WITH 1.25 X CLA RESULTS
- RESULTS
  - NOTCHING WILL BE NECESSARY AT INSTRUMENT PRIMARY (HIGH MASS) MODES FOR X, Y AND Z AXIS RANDOM TESTING

-12 dB w/ notch
Adjust notch manual

  - X-AXIS: 0.04 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR TEU (GRID 303779) Channel ~~33~~ 39
    - LIMITS PRIMARY X-AXIS MODE PREDICTED AT 56.8 HZ
  - Y-AXIS: 0.02 G^2/HZ LIMIT <50 HZ, 0.08 G^2/HZ >50<80 HZ ON ACCELEROMETER NEAR EEA (GRID 303727) Chanel 34 (37 Redundancy)
    - LIMITS HIGH MASS Y-AXIS MODES PREDICTED AT 46.9 HZ AND 65.1 HZ
  - Z-AXIS: 0.01 G^2/HZ LIMIT <100 HZ ON ACCELEROMETER NEAR CCU (GRID 302139) AND ACCELEROMETER NEAR TEU (GRID 303779)
    - LIMITS HIGH MASS Z-AXIS MODES AT 56.8 HZ, 65.1 HZ, AND 82.2 HZ TO 88.8 HZ

CCU channel 47 + 50 TEU channel 41 or 44

- RESPONSES ARE BASED ON ANALYTICAL PREDICTIONS AND MAY NEED ADJUSTING DURING TESTING
  - ACTUAL INPUT NOTCHES DURING TESTING SHOULD NOT EXCEED 14 DB
- RESPONSE SUMMARIES, PLOTS, AND MODAL EFFECTIVE WEIGHTS ARE PROVIDED IN THE FOLLOWING PAGES

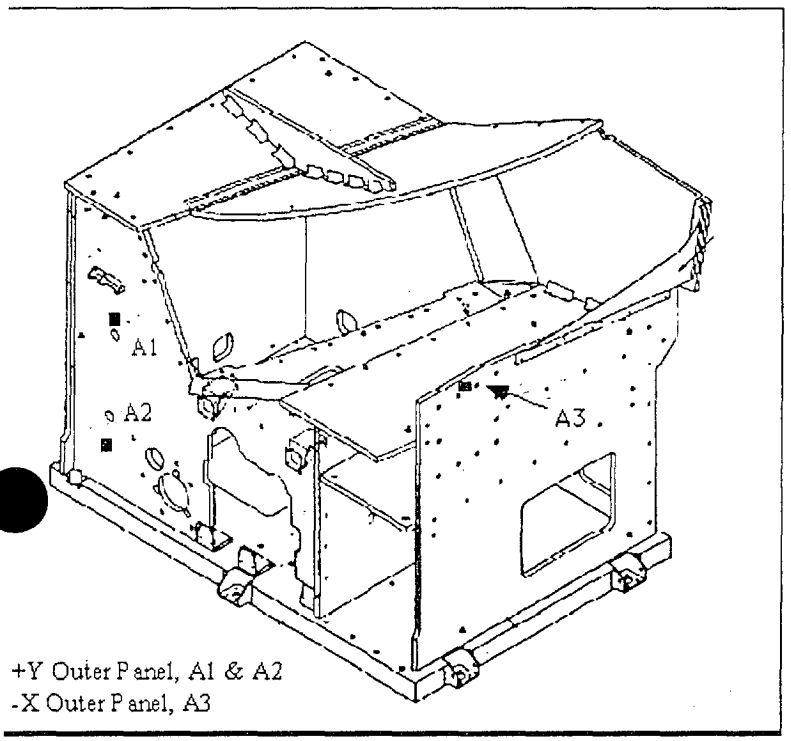
INSTRUMENTATION FOR HIRDLS INST. VIBRATION TEST

H. Nguyen/T. Curry 6/22/2002

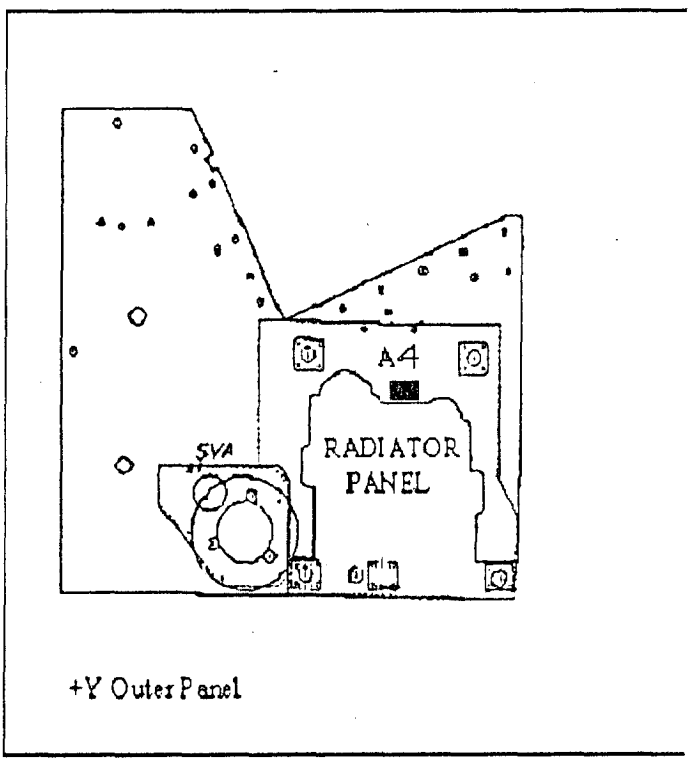
Accel No.	Location	Axes			Channel	Reserve
A1	Positive Y Panel, Near EEA	X	>=====>	CH:	33	36
	Positive Y Panel, Near EEA	Y	>=====>	CH:	34	37
	Positive Y Panel, Near EEA	Z	>=====>	CH:	35	38
A2	Positive Y Panel, Near TEU	X	>=====>	CH:	39	42
	Positive Y Panel, Near TEU	Y	>=====>	CH:	40	43
	Positive Y Panel, Near TEU	Z	>=====>	CH:	41	44
A3	Negative X Panel, Near CCU	X	>=====>	CH:	45	48
	Negative X Panel, Near CCU	Y	>=====>	CH:	46	49
	Negative X Panel, Near CCU	Z	>=====>	CH:	47	50
A4	Positive Y Panel, Near CMA	X	>=====>	CH:	51	54
	Positive Y Panel, Near CMA	Y	>=====>	CH:	52	55
	Positive Y Panel, Near CMA	Z	>=====>	CH:	53	56
A5	Kinematic Mount KM3, GSE	X	>=====>	CH:	7	N/A
	Kinematic Mount KM3, GSE	Y	>=====>	CH:	8	N/A
	Kinematic Mount KM3, GSE	Z	>=====>	CH:	9	N/A
A6	Kinematic Mount KM3, HIRDLS Instrument Base Plate	X	>=====>	CH:	10	N/A
	Kinematic Mount KM3, HIRDLS Instrument Base Plate	Y	>=====>	CH:	11	N/A
	Kinematic Mount KM3, HIRDLS Instrument Base Plate	Z	>=====>	CH:	12	N/A
A7	Kinematic Mount KM2-Y, GSE	X	>=====>	CH:	17	N/A
	Kinematic Mount KM2-Y, GSE	Y	>=====>	CH:	18	N/A
	Kinematic Mount KM2-Y, GSE	Z	>=====>	CH:	19	N/A
A8	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	X	>=====>	CH:	20	N/A
	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	Y	>=====>	CH:	21	N/A
	Kinematic Mount KM2-Y, HIRDLS Instrument Base Plate	Z	>=====>	CH:	22	N/A
A9	Kinematic Mount KM2+Y, GSE	X	>=====>	CH:	23	N/A
	Kinematic Mount KM2+Y, GSE	Y	>=====>	CH:	24	N/A
	Kinematic Mount KM2+Y, GSE	Z	>=====>	CH:	25	N/A
A10	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	X	>=====>	CH:	26	N/A
	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	Y	>=====>	CH:	27	N/A
	Kinematic Mount KM+Y, HIRDLS Instrument Base Plate	Z	>=====>	CH:	28	N/A
F1	FLY AWAY, HIRDLS INSTRUMENT HOOD	Z		CH:	57	N/A

5.1.4 Axis Alignment and Accelerometer Location

In the diagrams below (RE: Figure 5.1.4-1(a) & (b)) are provided the HIRDLS Instrument, the coordinate axes, and the approximate location of the accelerometers. (NOTE: This may be subject to change) Following that (see Figure 5.1.4-2.1 - 2.3) are depicted the Interface Fixture, Interface GSE, and the KMs respectively. The control accelerometer is not shown for clarity.



(a) Accelerometers A1, A2, & A3



(b) Accelerometer A4

Figure 5.1.4-1. HIRDLS Instrument Accelerometer Locations.

(Note: Accelerometer locations will be subject to change)

LOCKHEED MARTIN MISSILES & SPACE

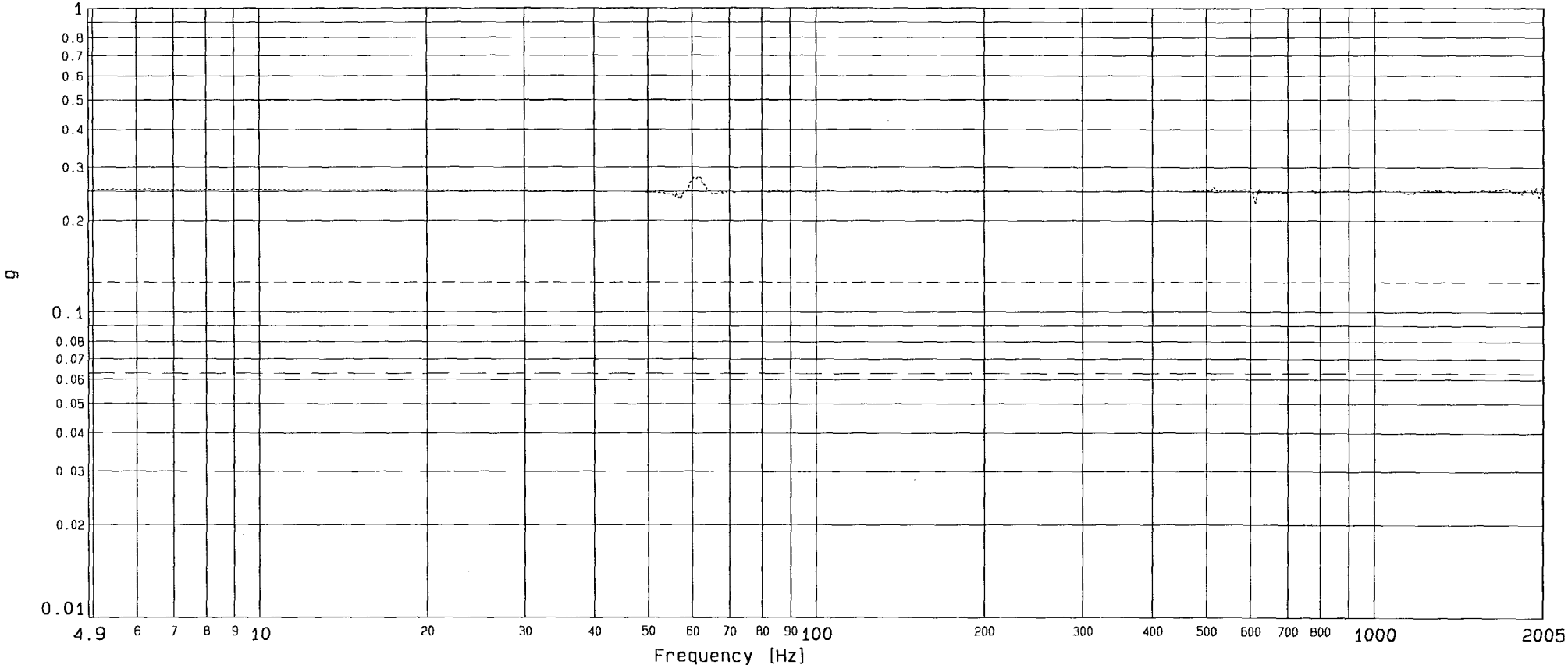
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

LOCKHEED MARTIN MISSILES & SPACE

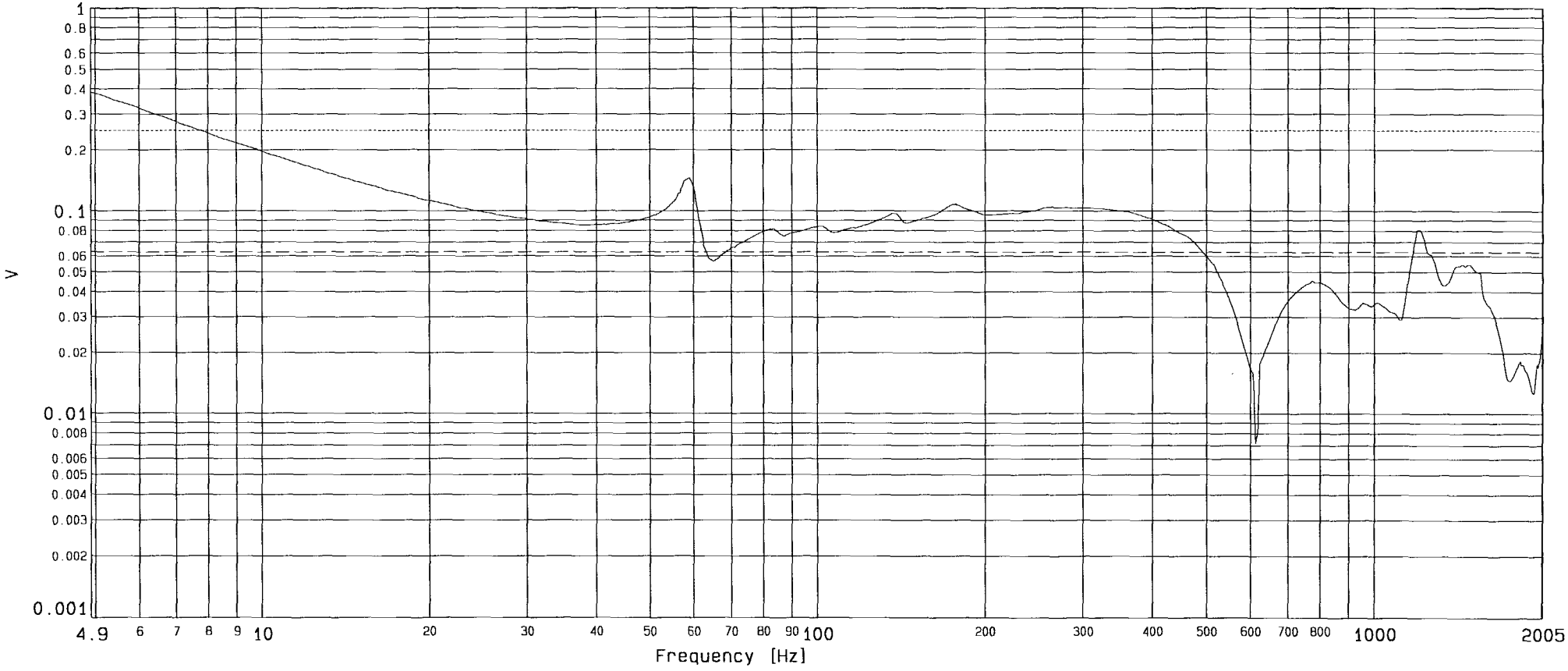
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 384.74e-03 V

Trace identification :
- Drive
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

LMS

LOCKHEED MARTIN MISSILES & SPACE

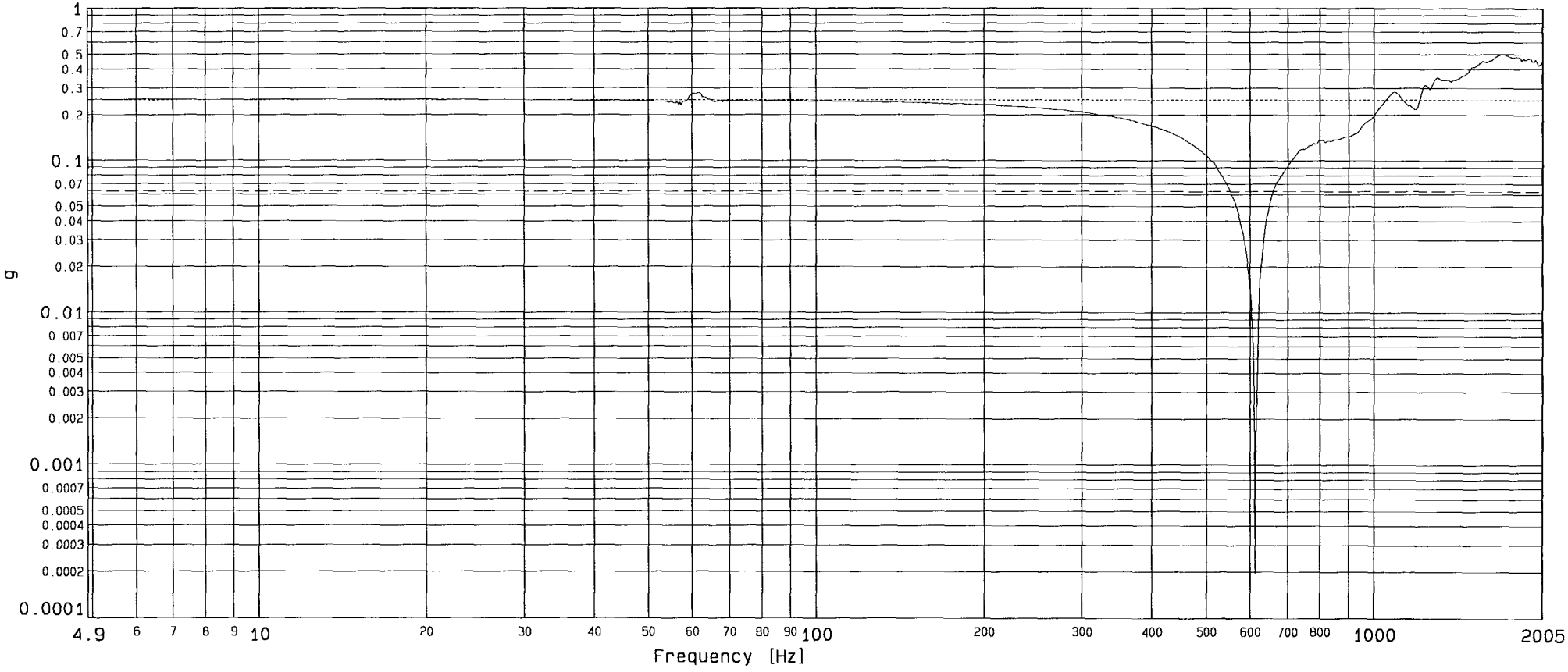
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 502.84e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

LOCKHEED MARTIN MISSILES & SPACE

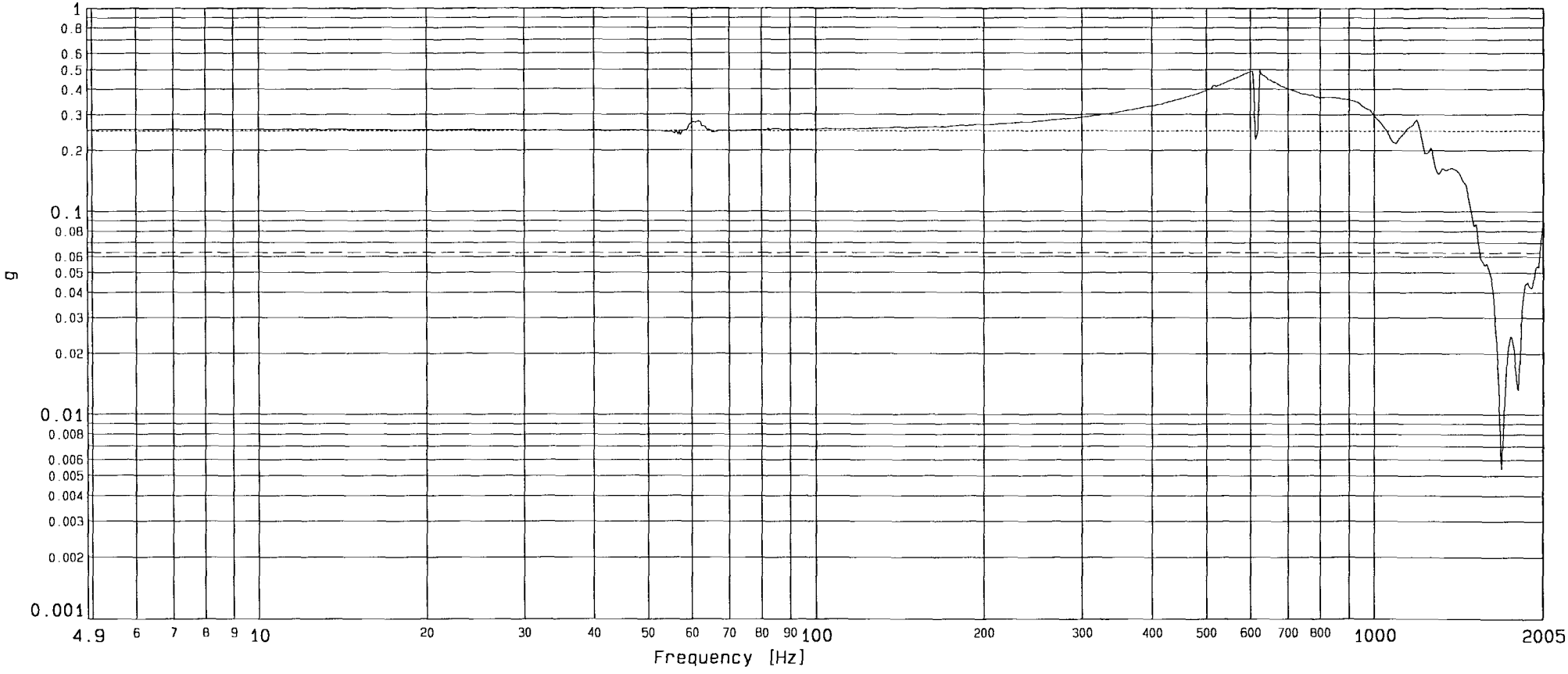
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 495.11e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

LMS

LOCKHEED MARTIN MISSILES & SPACE

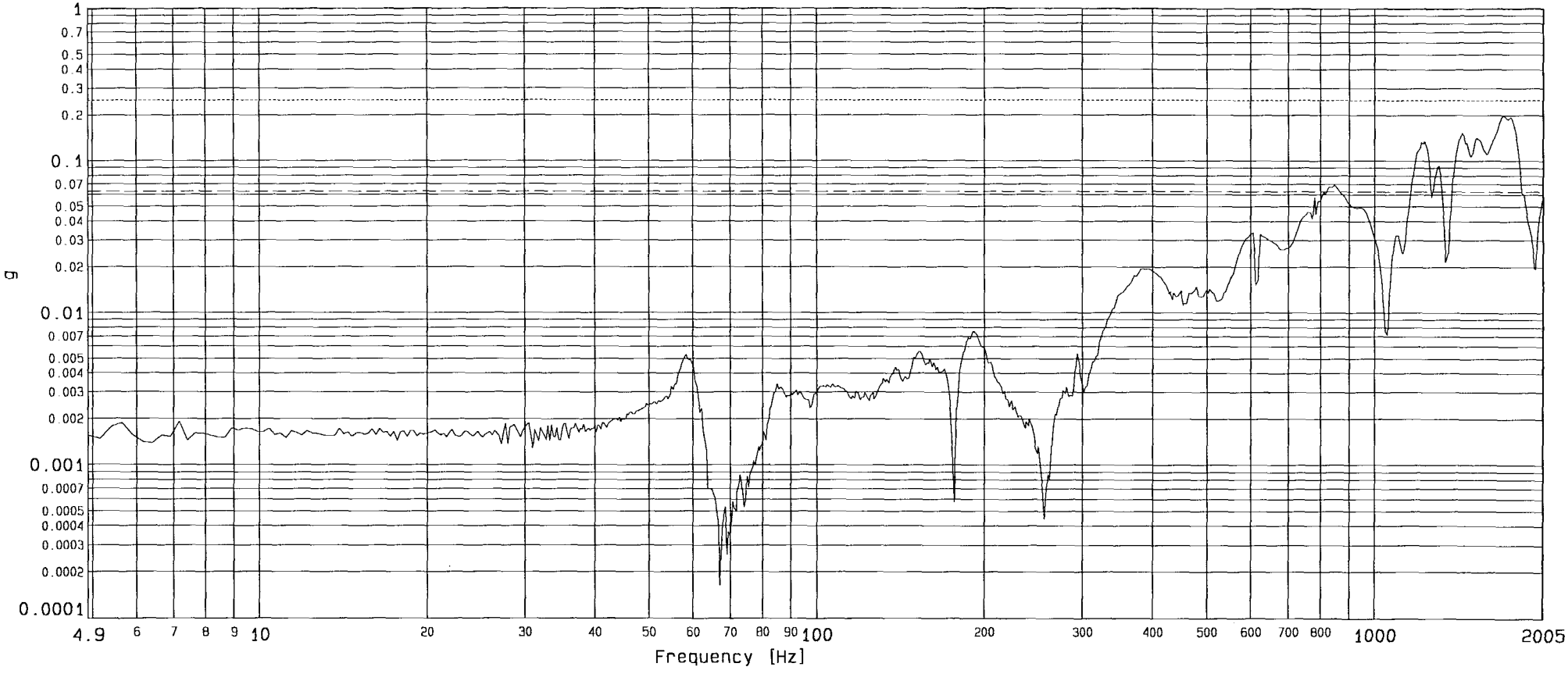
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 198.35e-03 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

LMS

LOCKHEED MARTIN MISSILES & SPACE

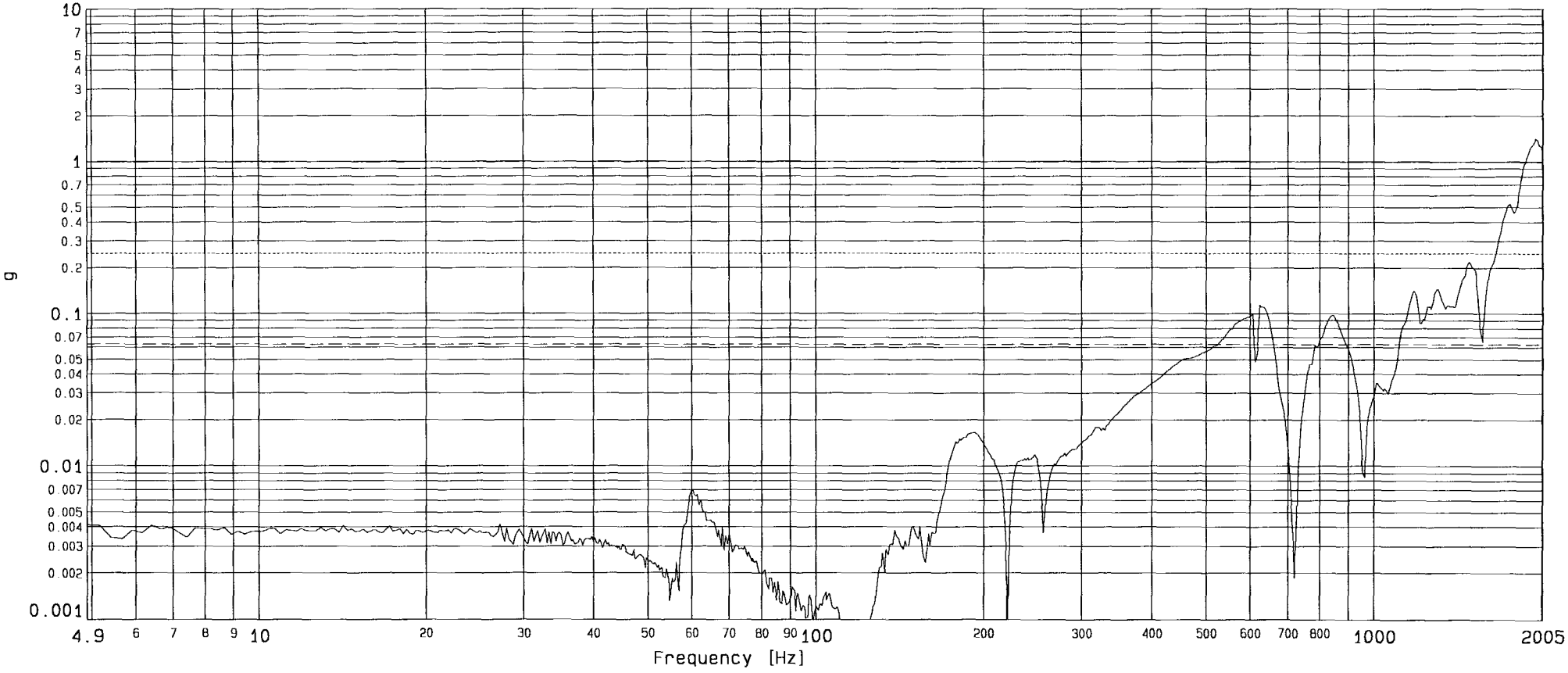
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 1.42 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

LOCKHEED MARTIN MISSILES & SPACE

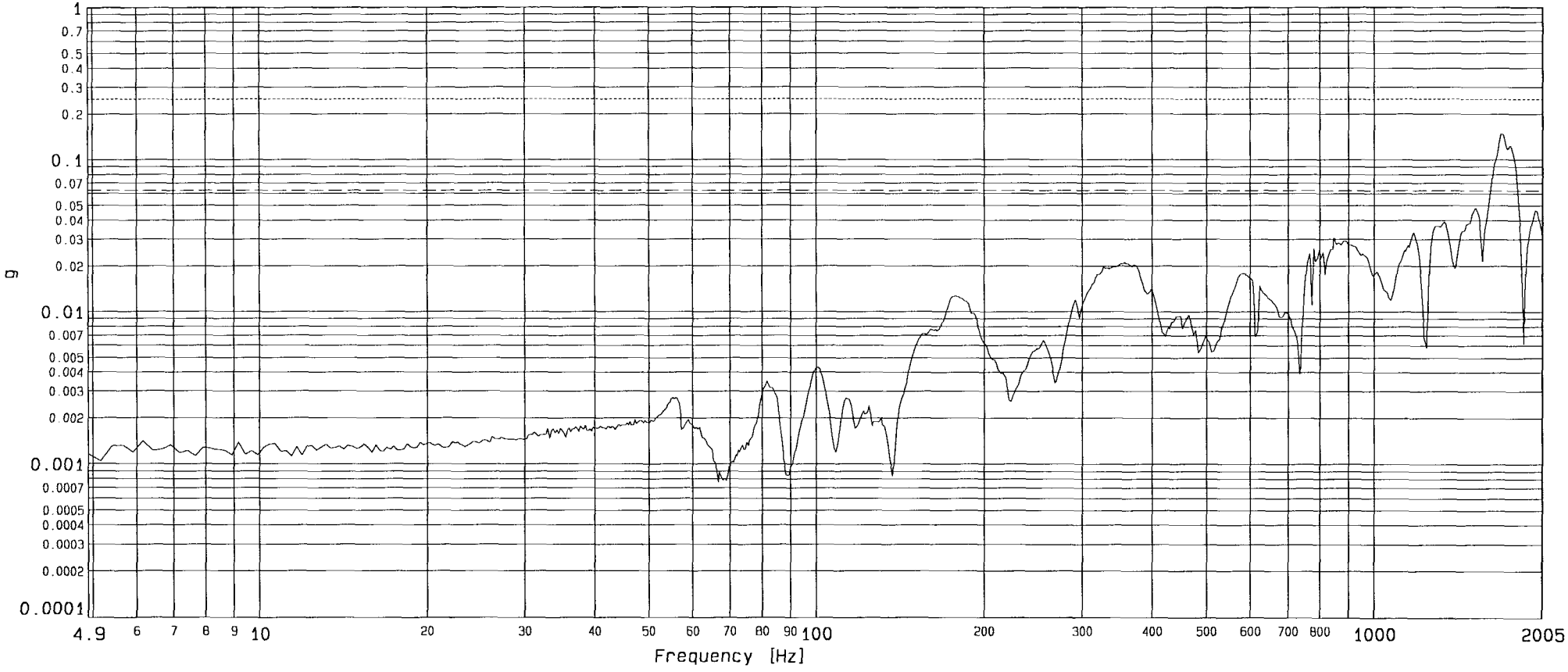
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 148.06e-03 g

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

LOCKHEED MARTIN MISSILES & SPACE

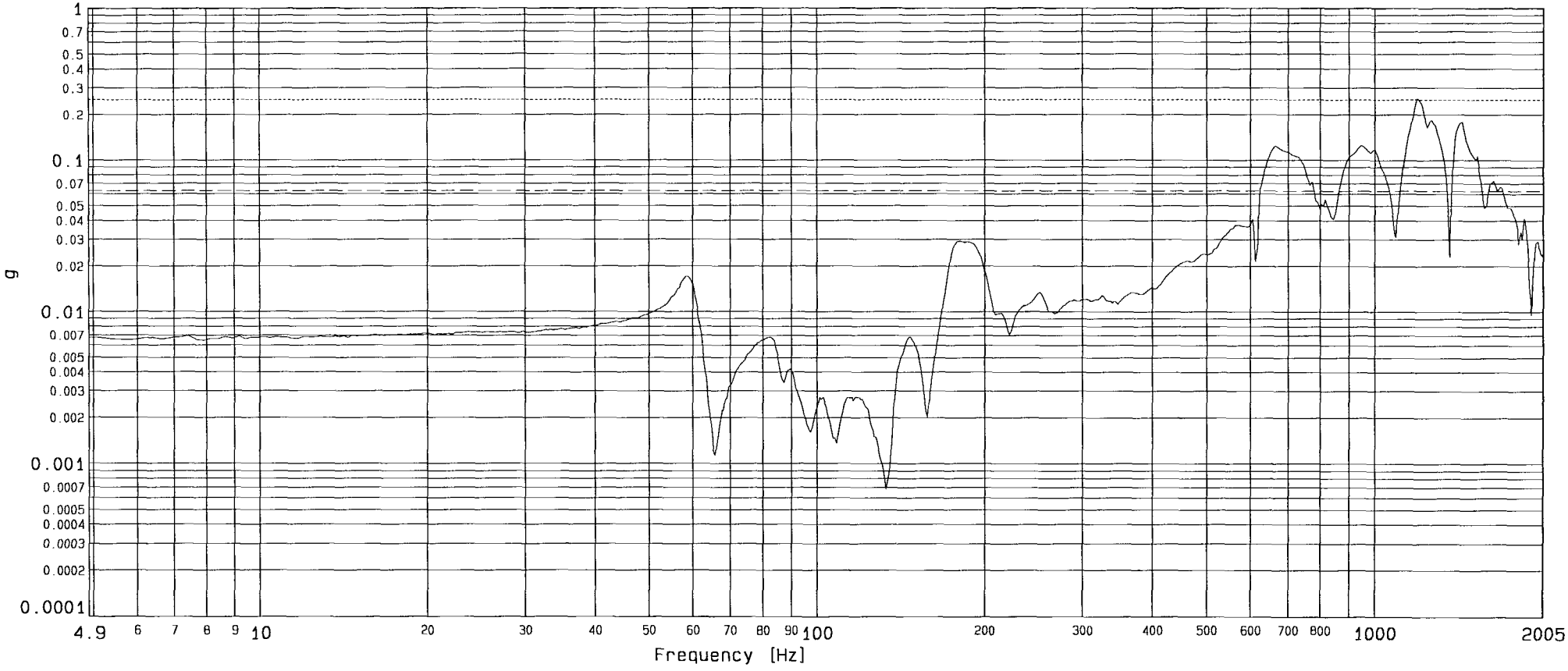
Project : hirdls
Test : X_Signature
Run : 2 062401

Date : 24-06-02
Time : 00:55:30
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 255.10e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep Fixture Trials

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062401

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

North_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

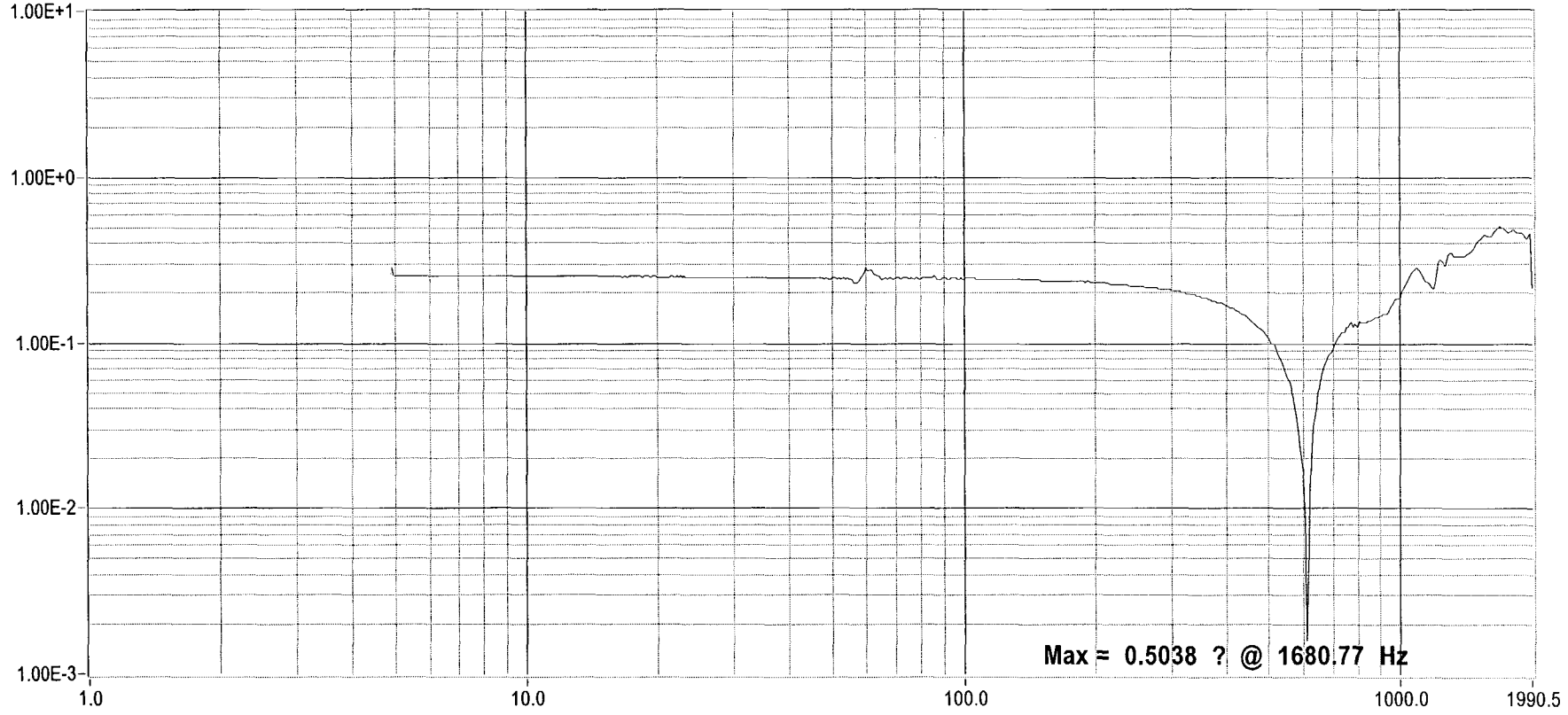
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 1 **Node Number:** 0001

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:13 AM

Frequency HZ

North_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

North_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

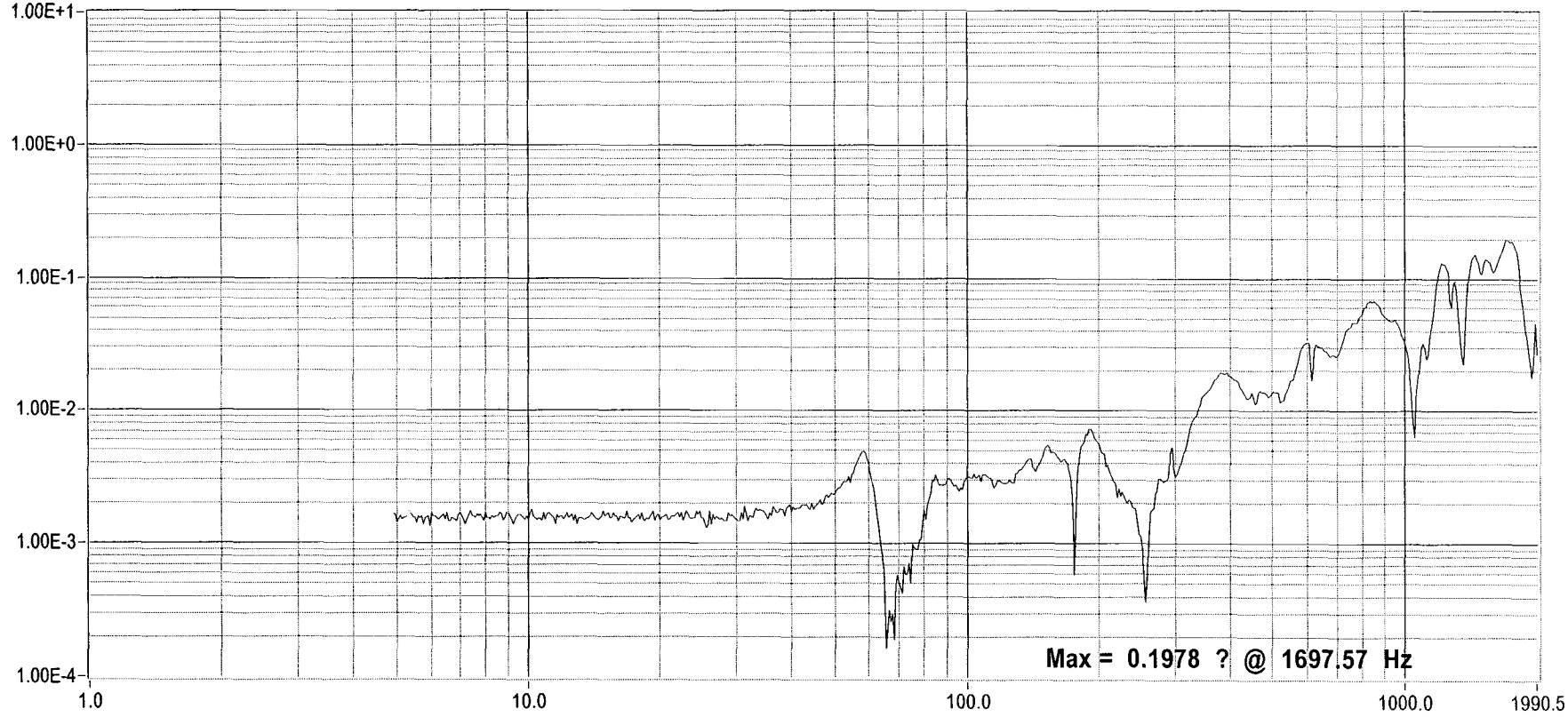
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 2 **Node Number:** 0002

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:13 AM

North_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

North_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

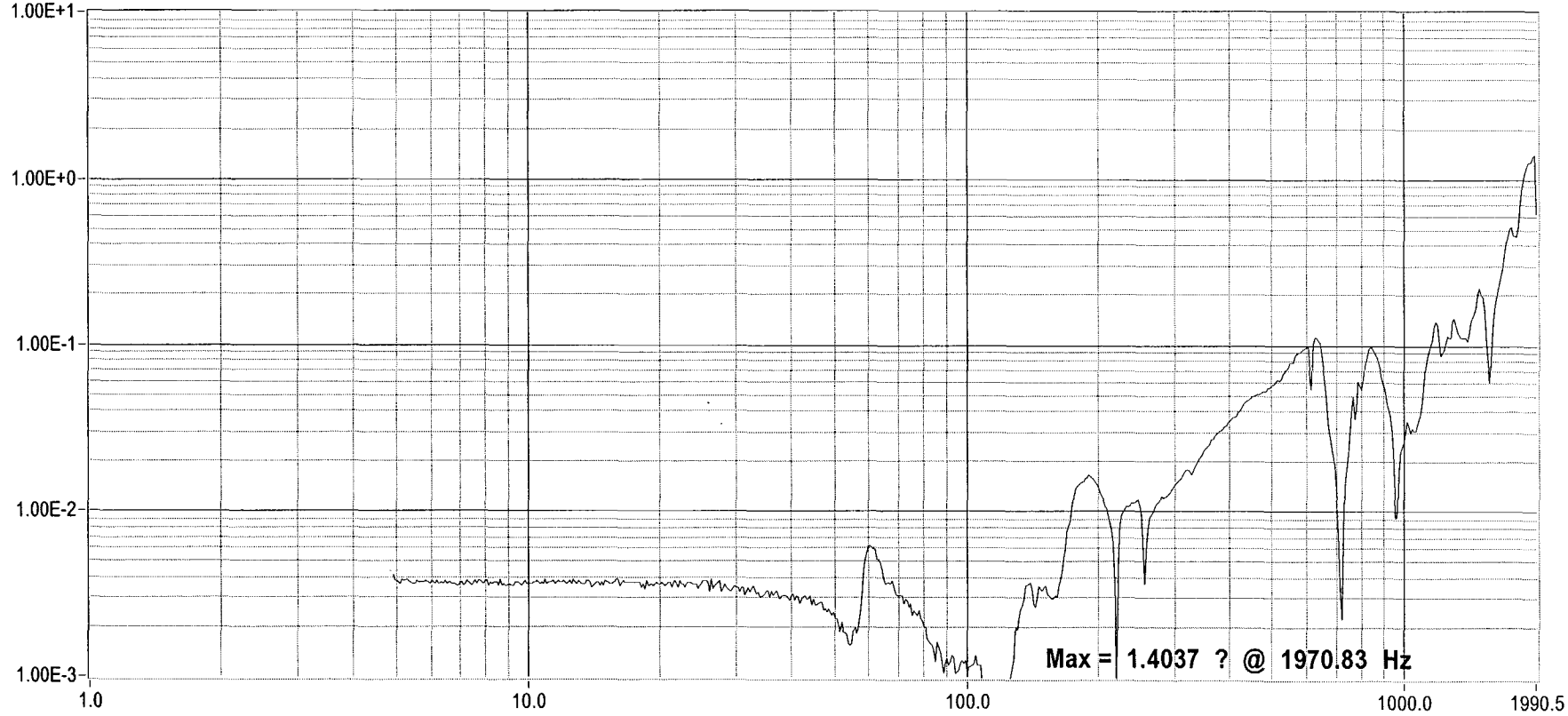
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 3 **Node Number:** 0003

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:13 AM

Frequency HZ

North_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

South_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

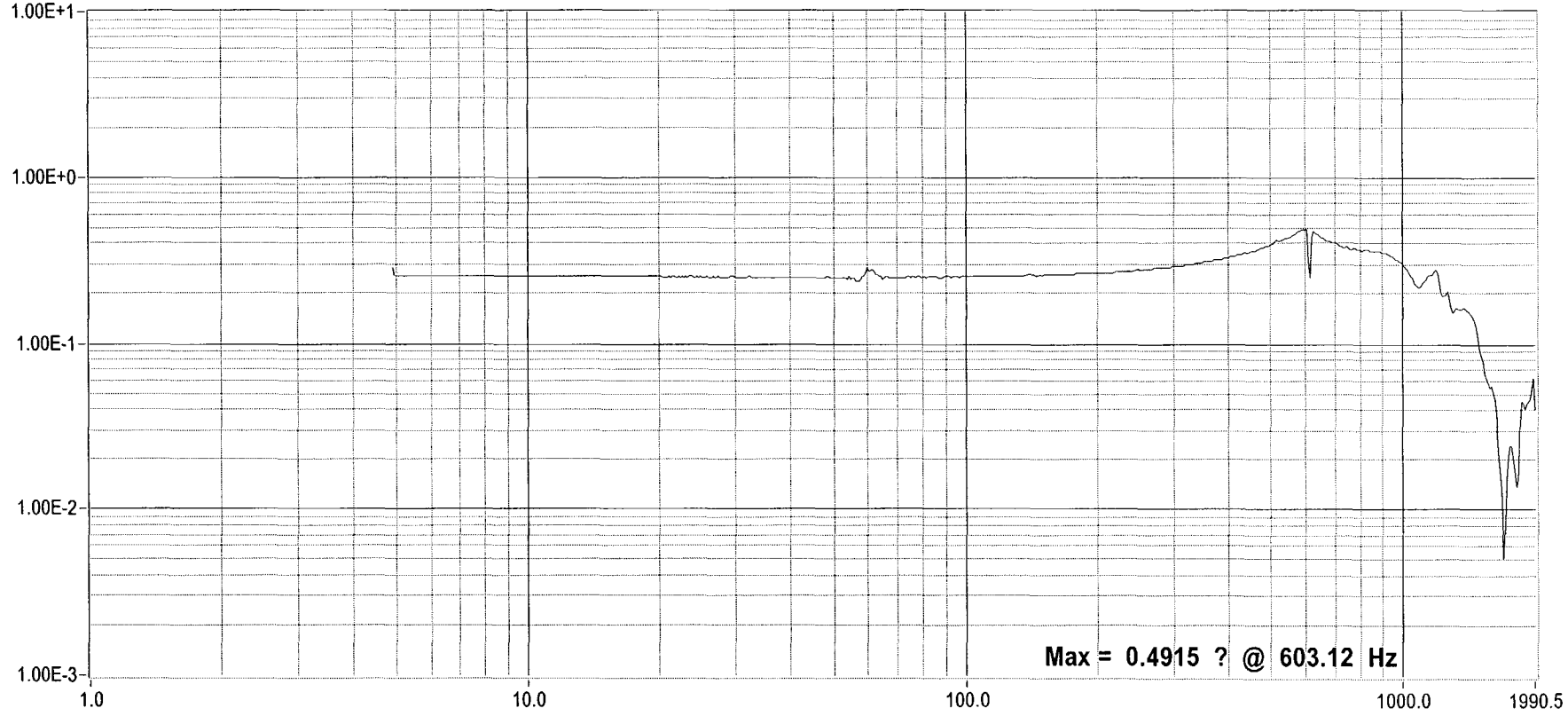
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 4 **Node Number:** 0004

Channel Description: I

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:14 AM

Frequency HZ

South_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

South_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

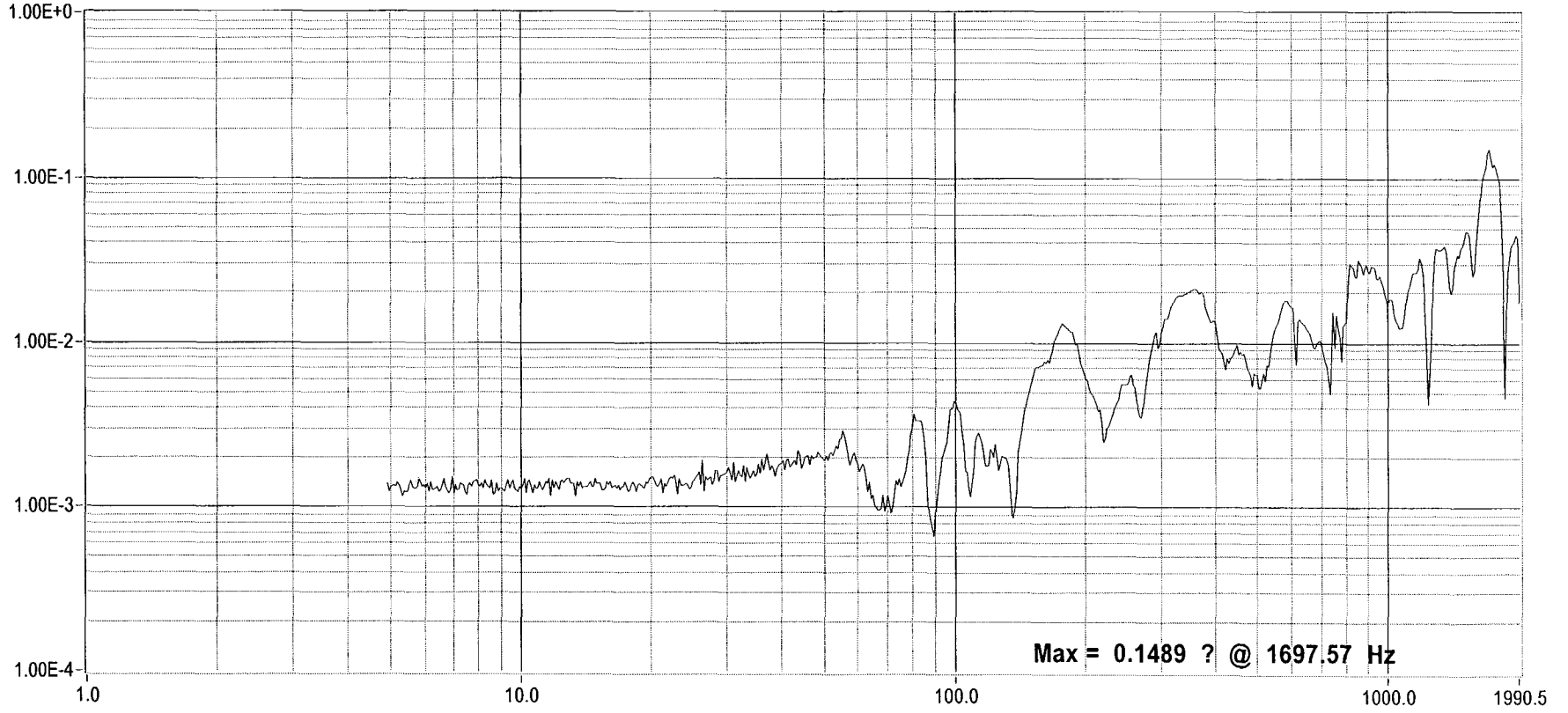
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 5 **Node Number:** 0005

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:14 AM

Frequency HZ

South_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

South_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

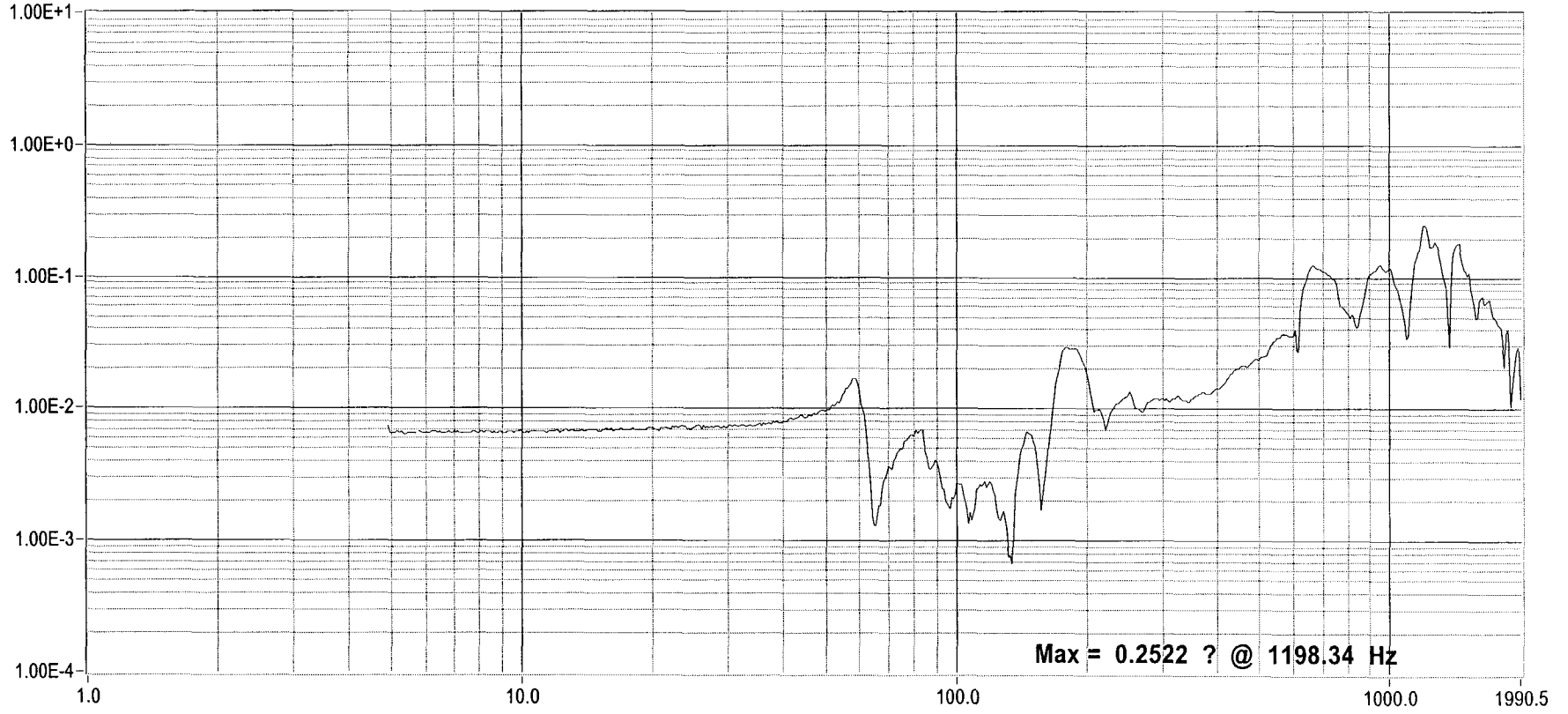
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 6 **Node Number:** 0006

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:14 AM

South_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A5 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

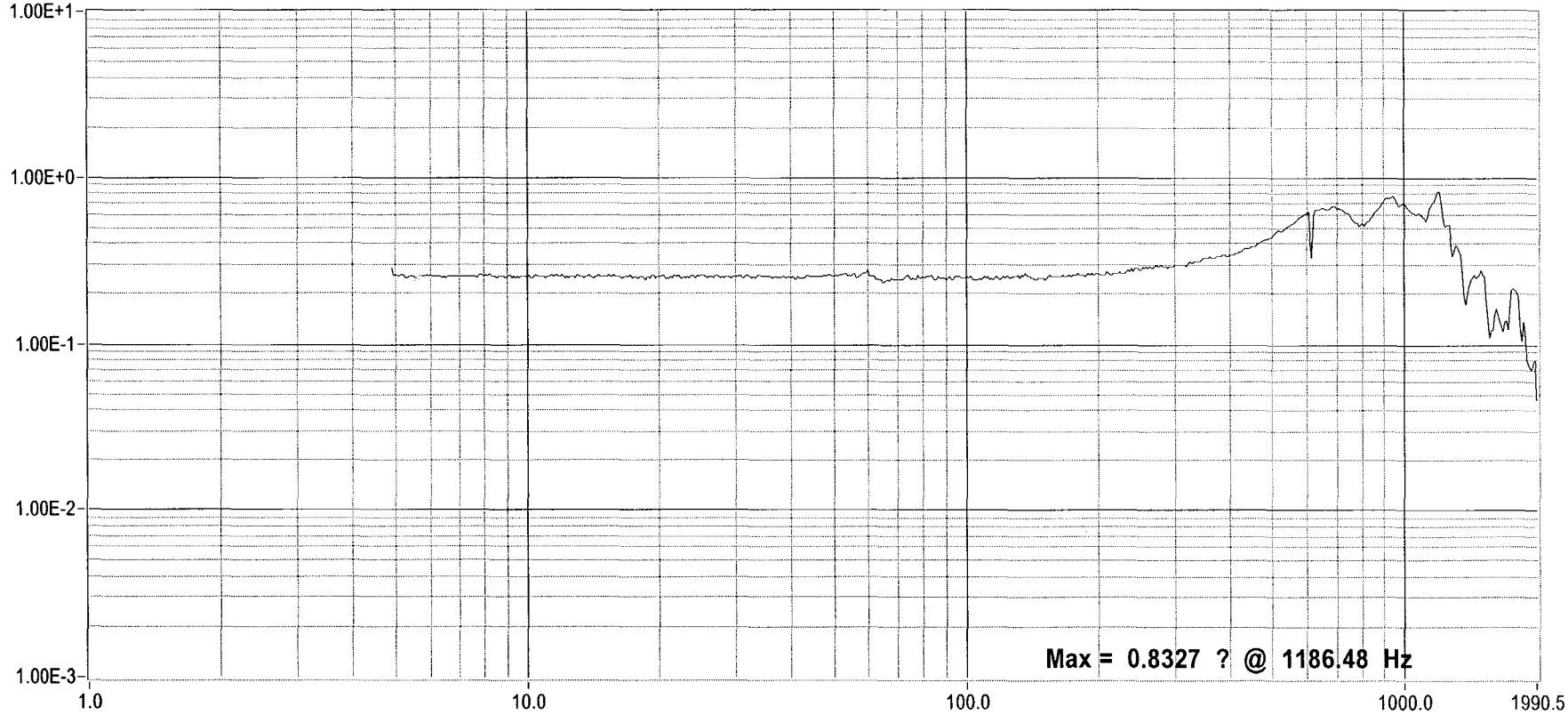
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 7 **Node Number:** 0007

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:14 AM

Frequency HZ

A5 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A5 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

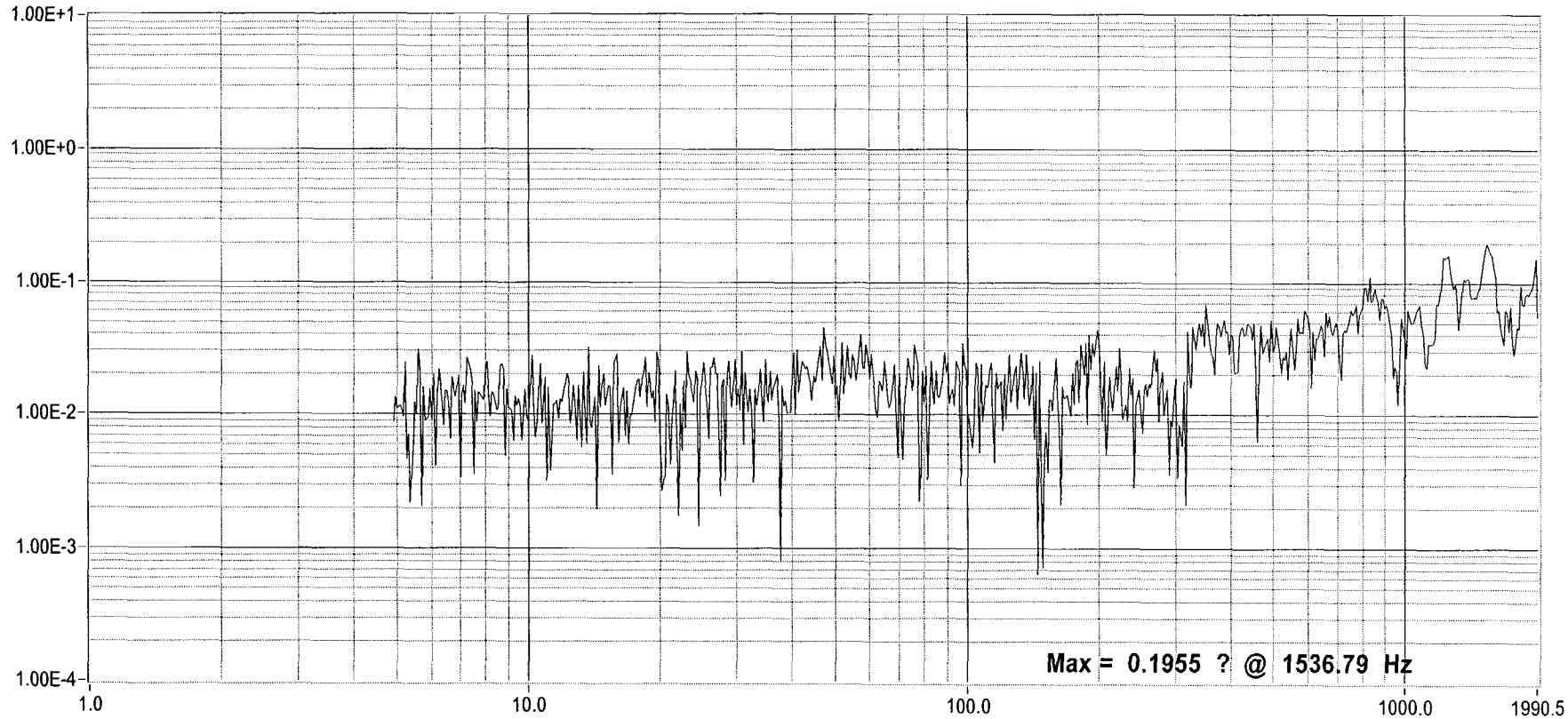
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 8 **Node Number:** 0008

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:15 AM

Frequency HZ

A5 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A5 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

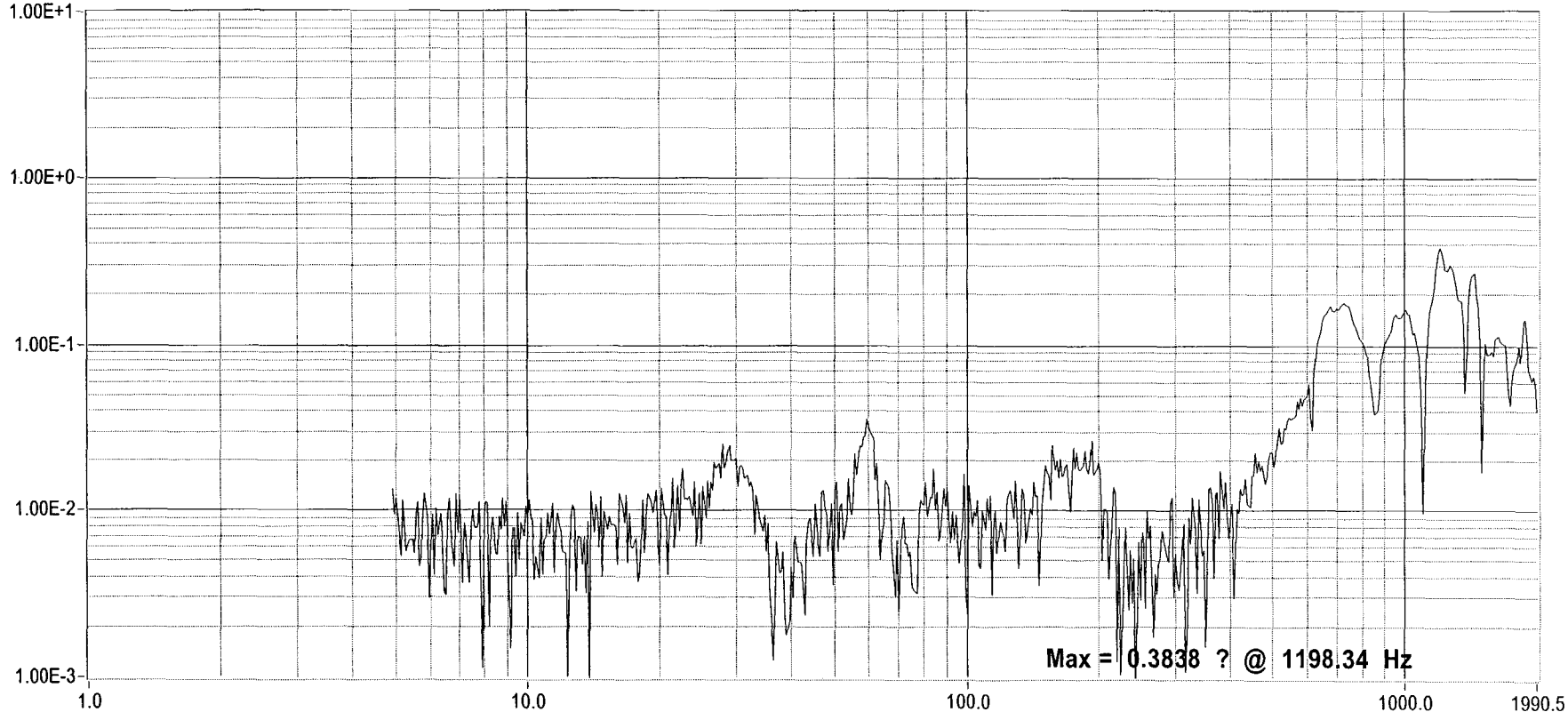
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 9 **Node Number:** 0009

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:15 AM

Frequency HZ

A5 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A6 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

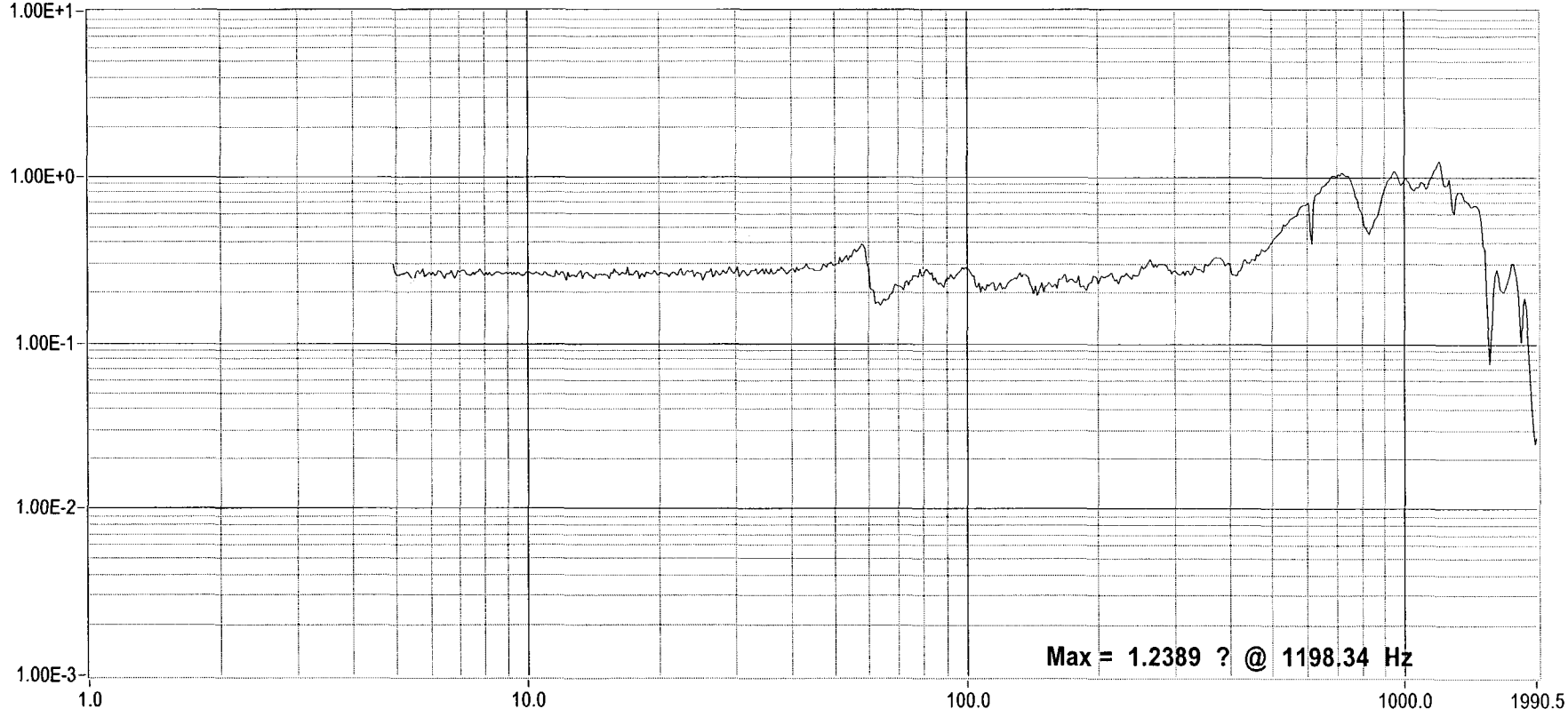
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 10 **Node Number:** 0010

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:15 AM

Frequency HZ

A6 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A6 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

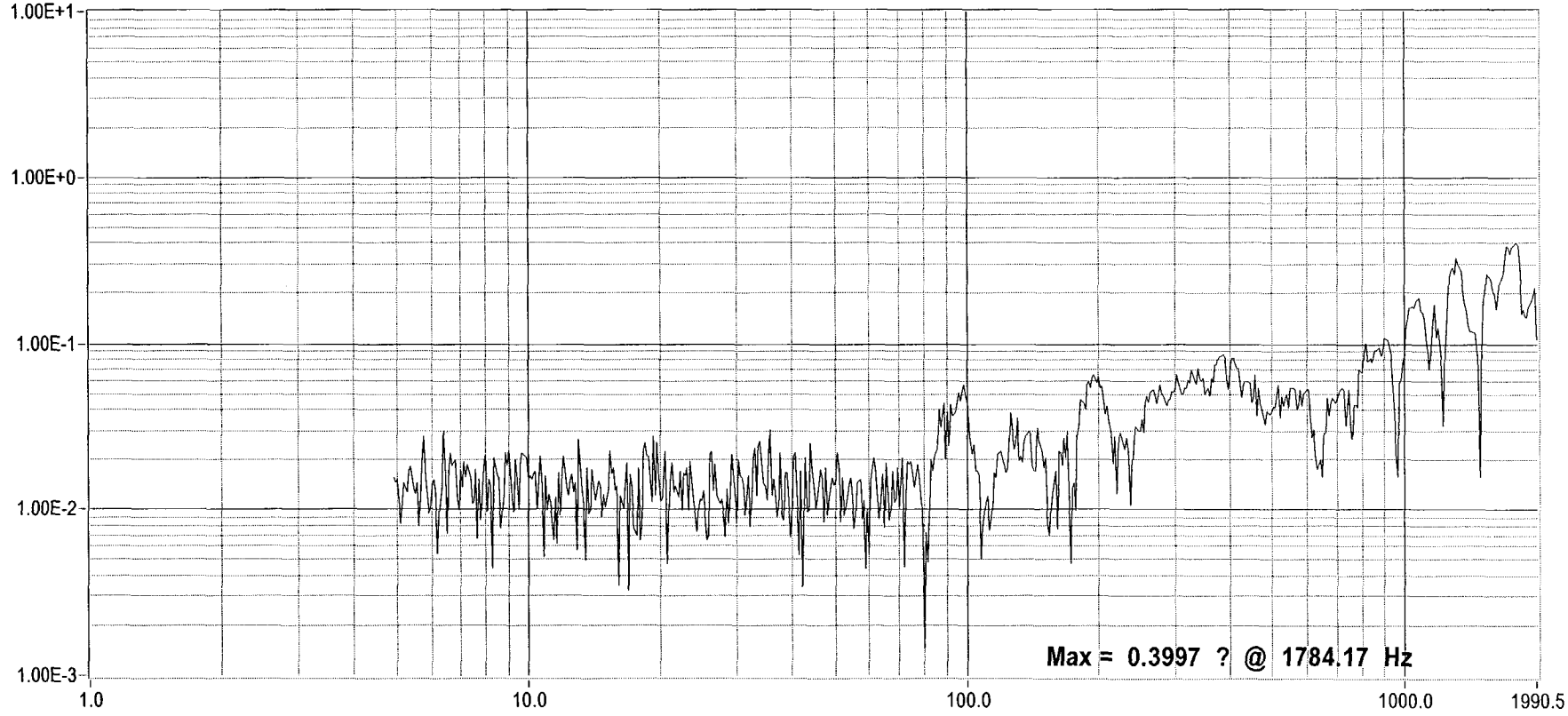
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 11 **Node Number:** 0011

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:15 AM

Frequency HZ

A6 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A6 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

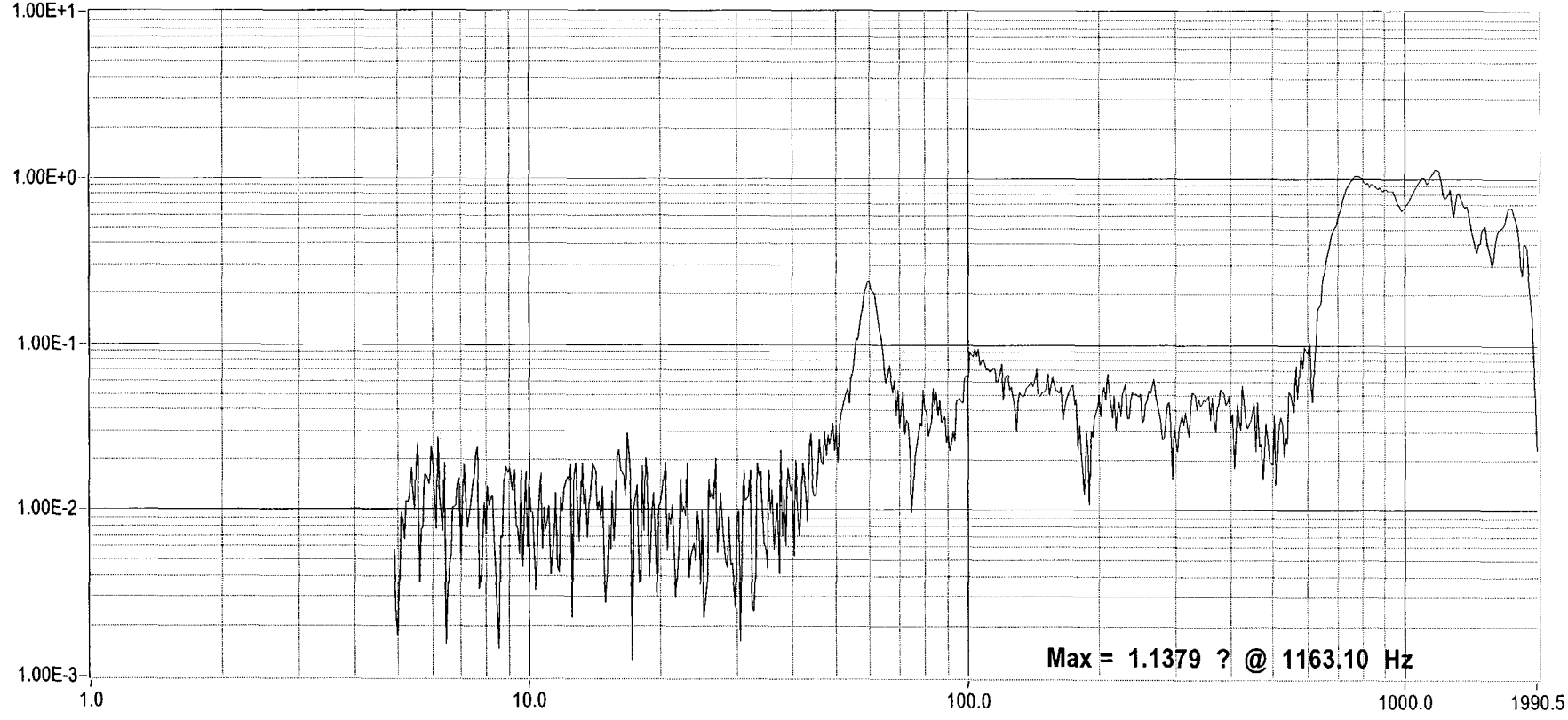
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 12 **Node Number:** 0012

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:16 AM

Frequency HZ

A6 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A7 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

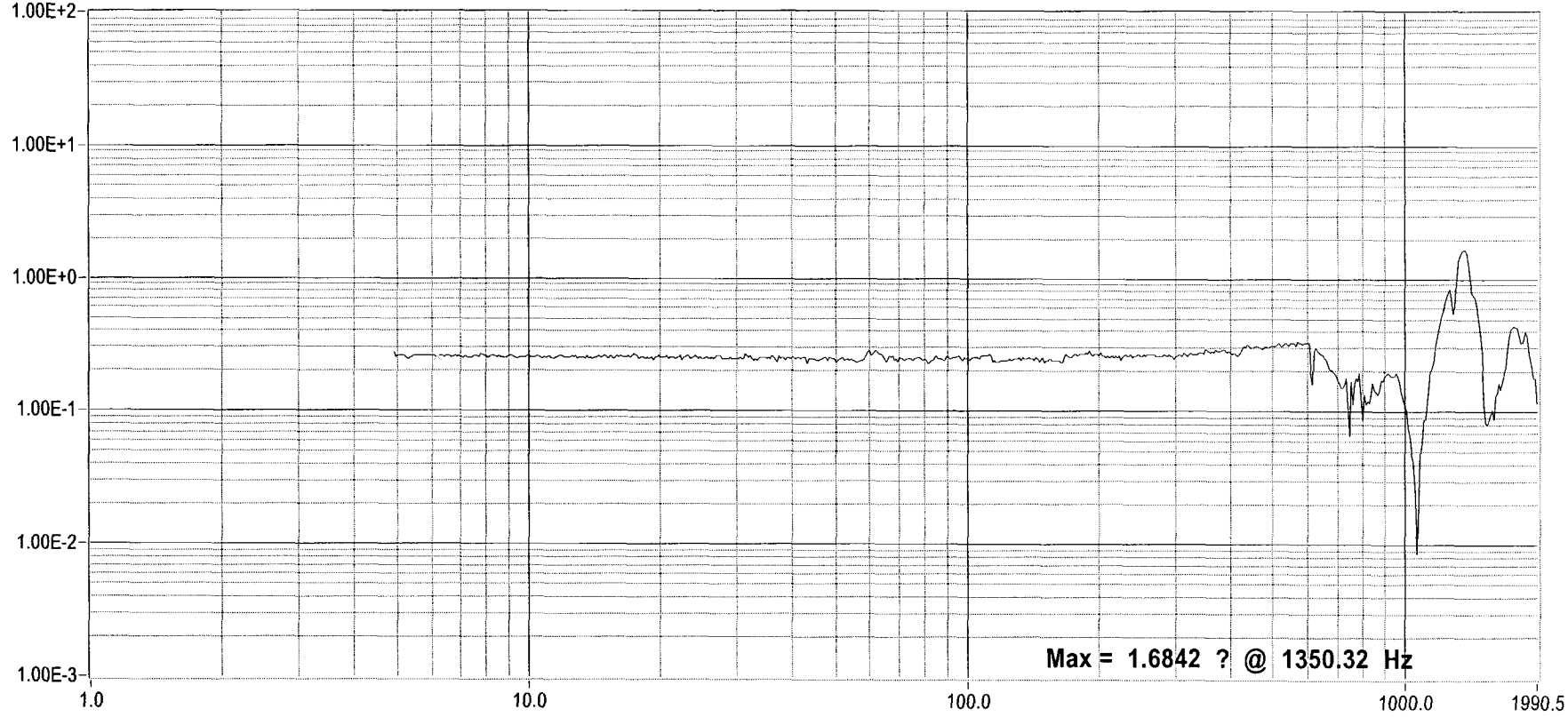
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 17 **Node Number:** 0017

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:16 AM

A7 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A7 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

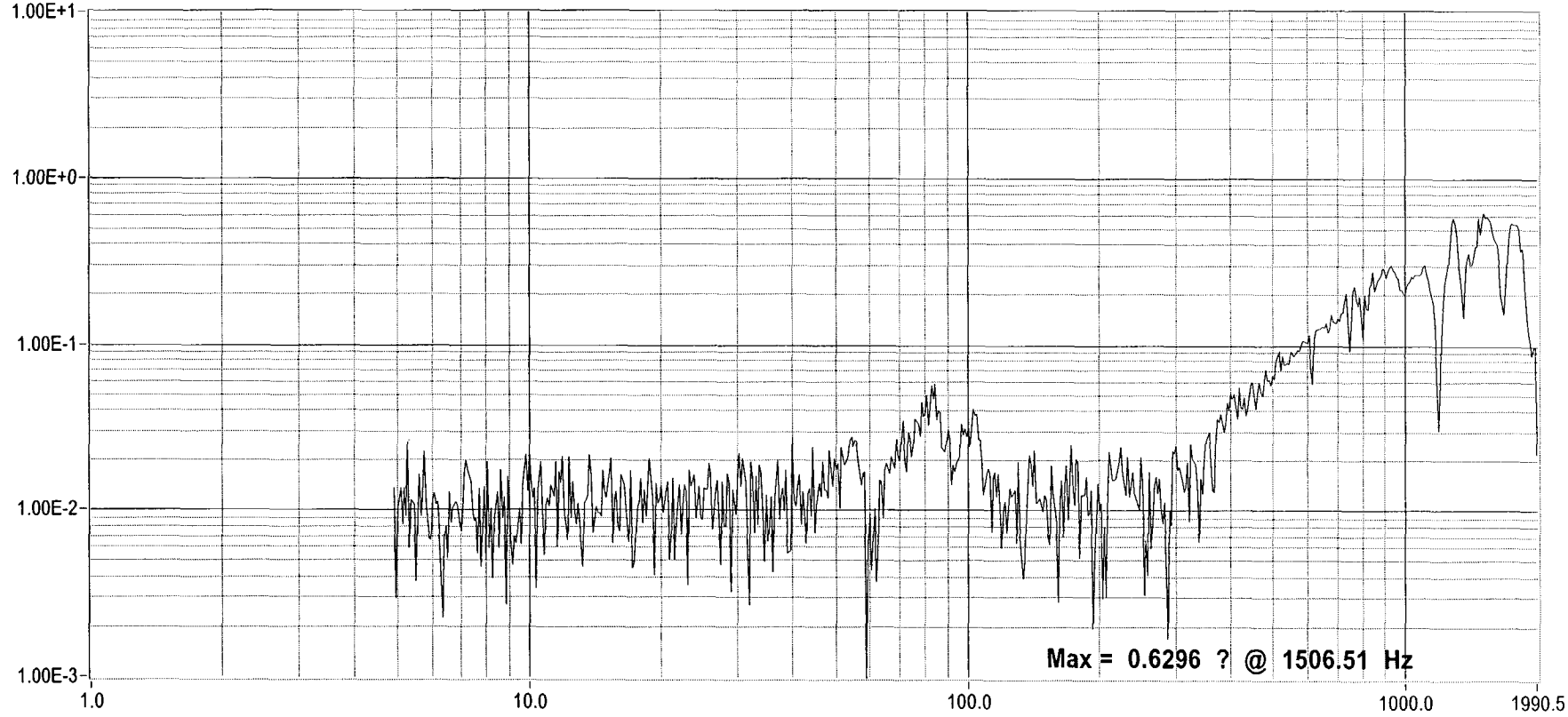
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 18 **Node Number:** 0018

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:16 AM

Frequency HZ

A7 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A7 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

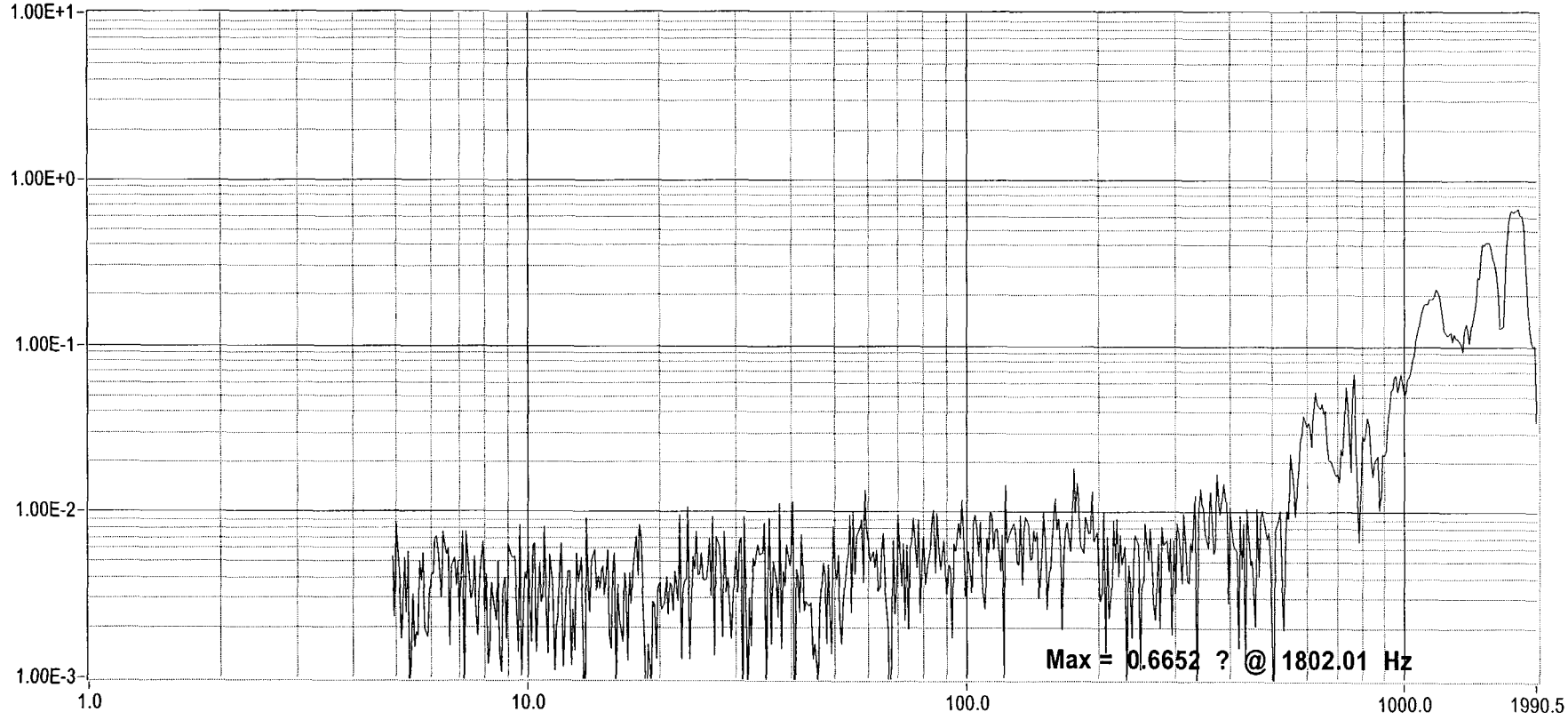
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 19 **Node Number:** 0019

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:16 AM

Frequency HZ

A7 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A8 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

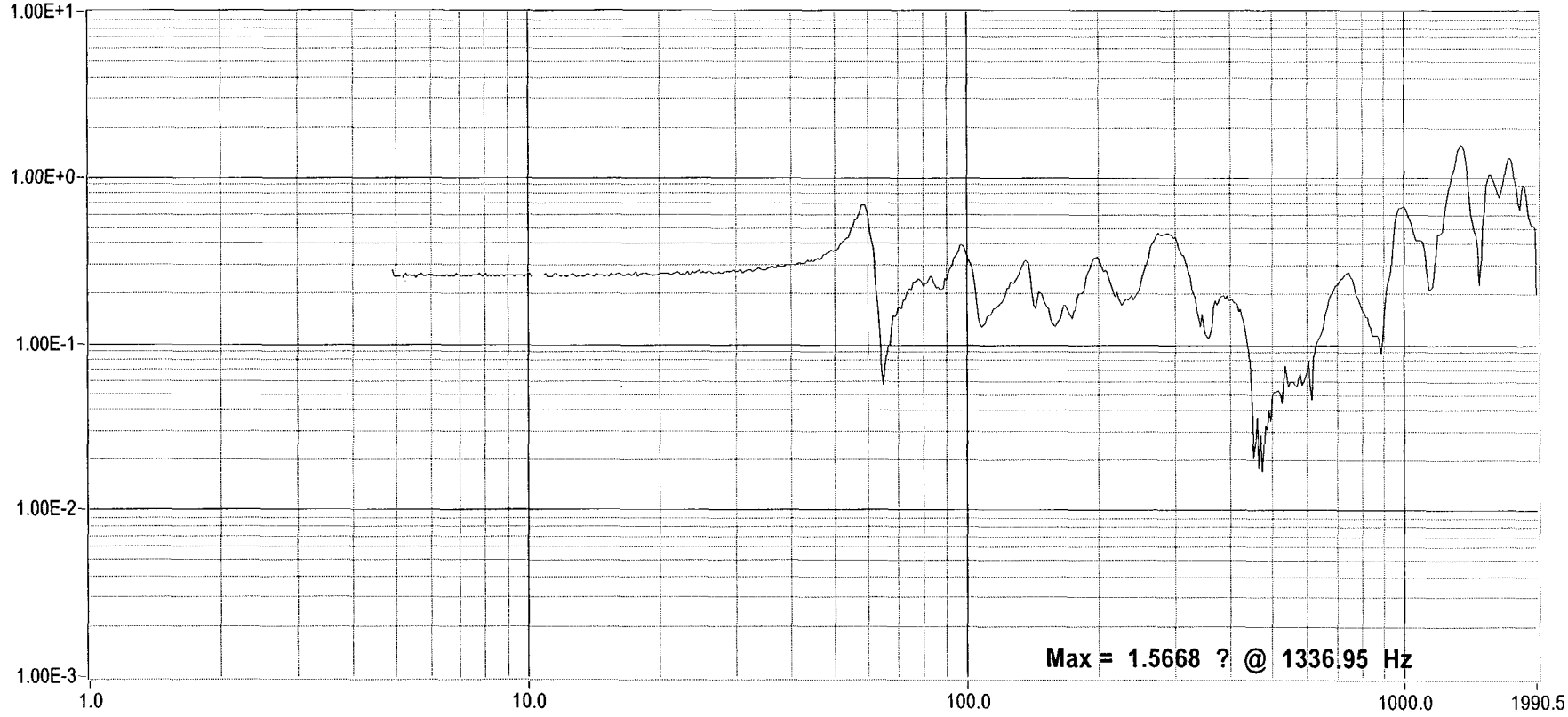
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 20 **Node Number:** 0020

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:17 AM

Frequency HZ

A8 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A8 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

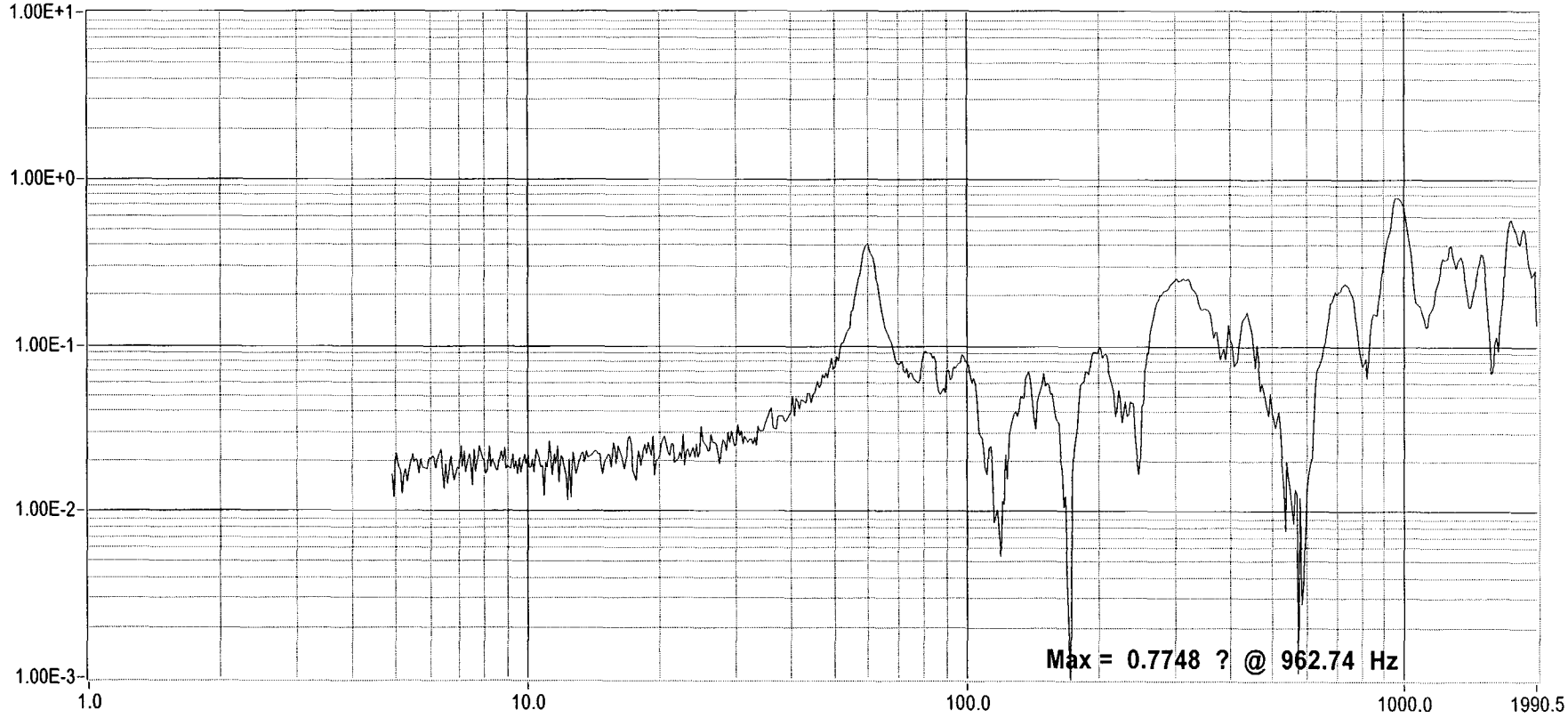
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 21 **Node Number:** 0021

Channel Description: 0.01034

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:17 AM

Frequency HZ

A8 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A8 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

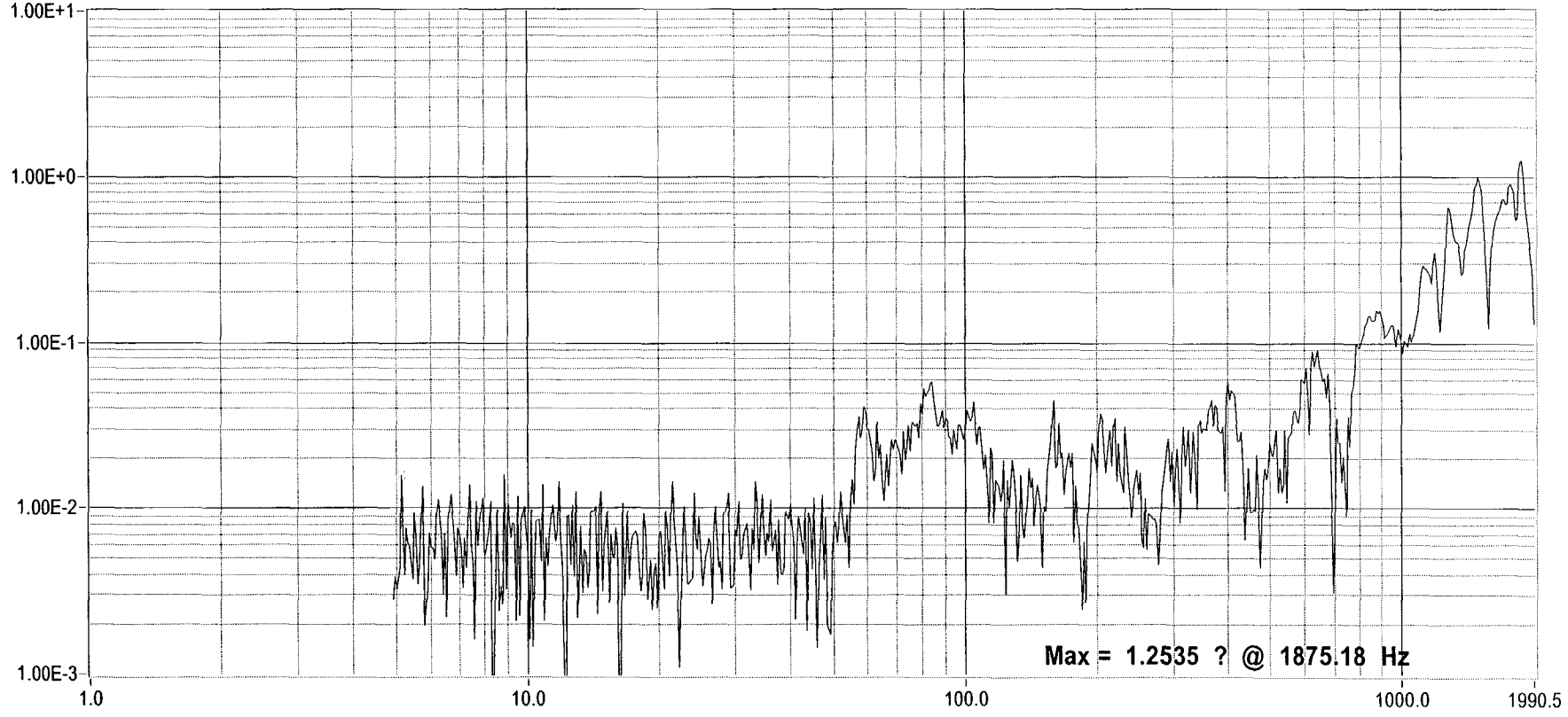
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 22 **Node Number:** 0022

Channel Description: 0.01029

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:17 AM

Frequency HZ

A8 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A9 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

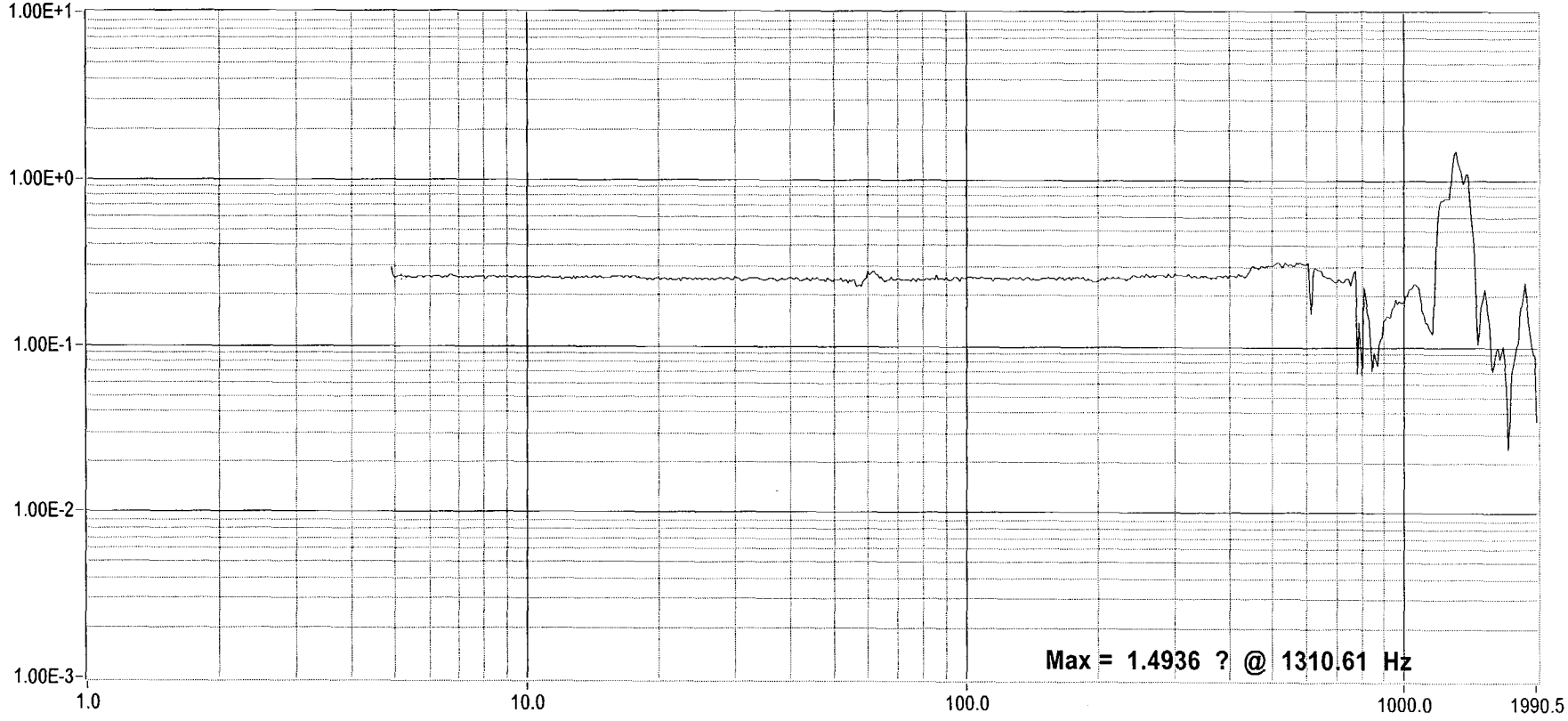
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 23 **Node Number:** 0023

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:18 AM

Frequency HZ

A9 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A9 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

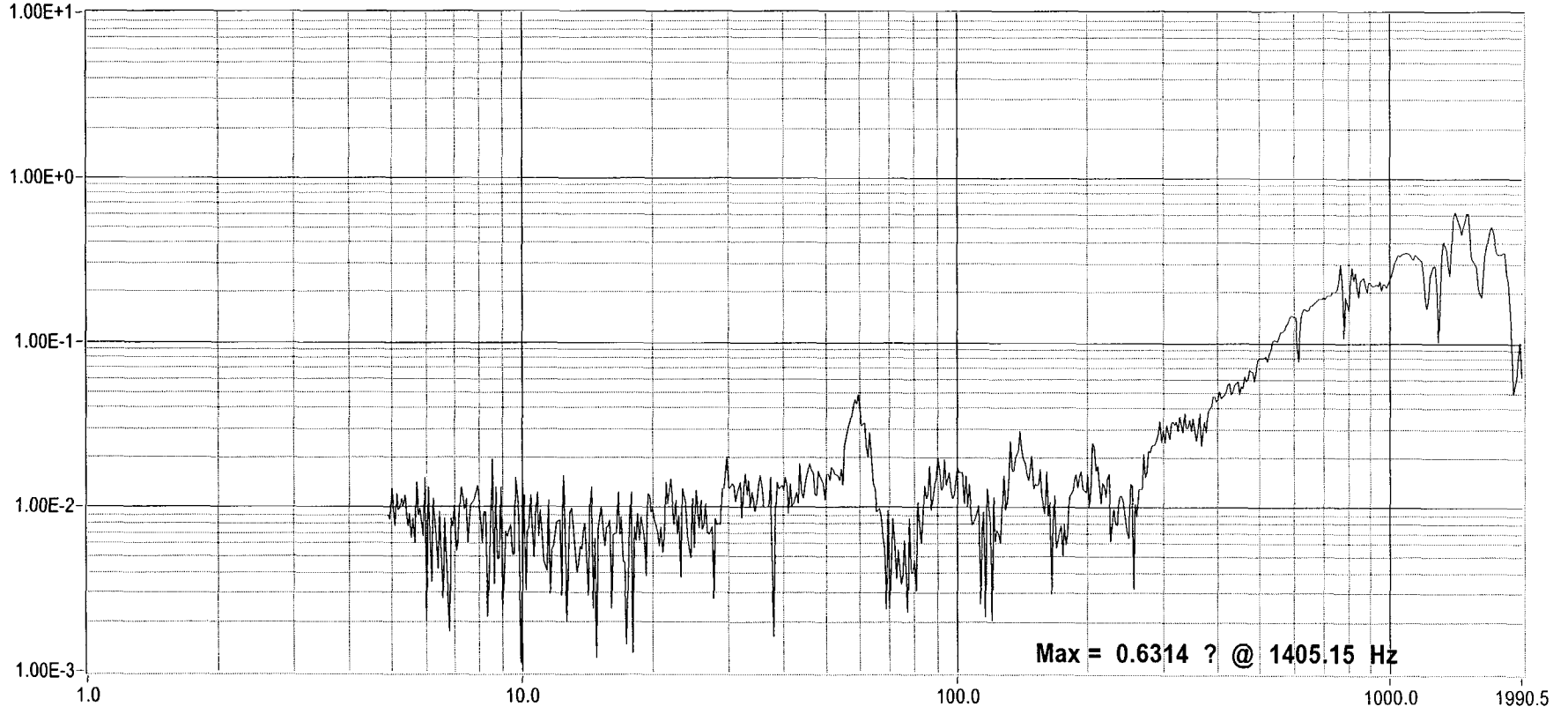
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 24 **Node Number:** 0024

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:18 AM

Frequency HZ

A9 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A9 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

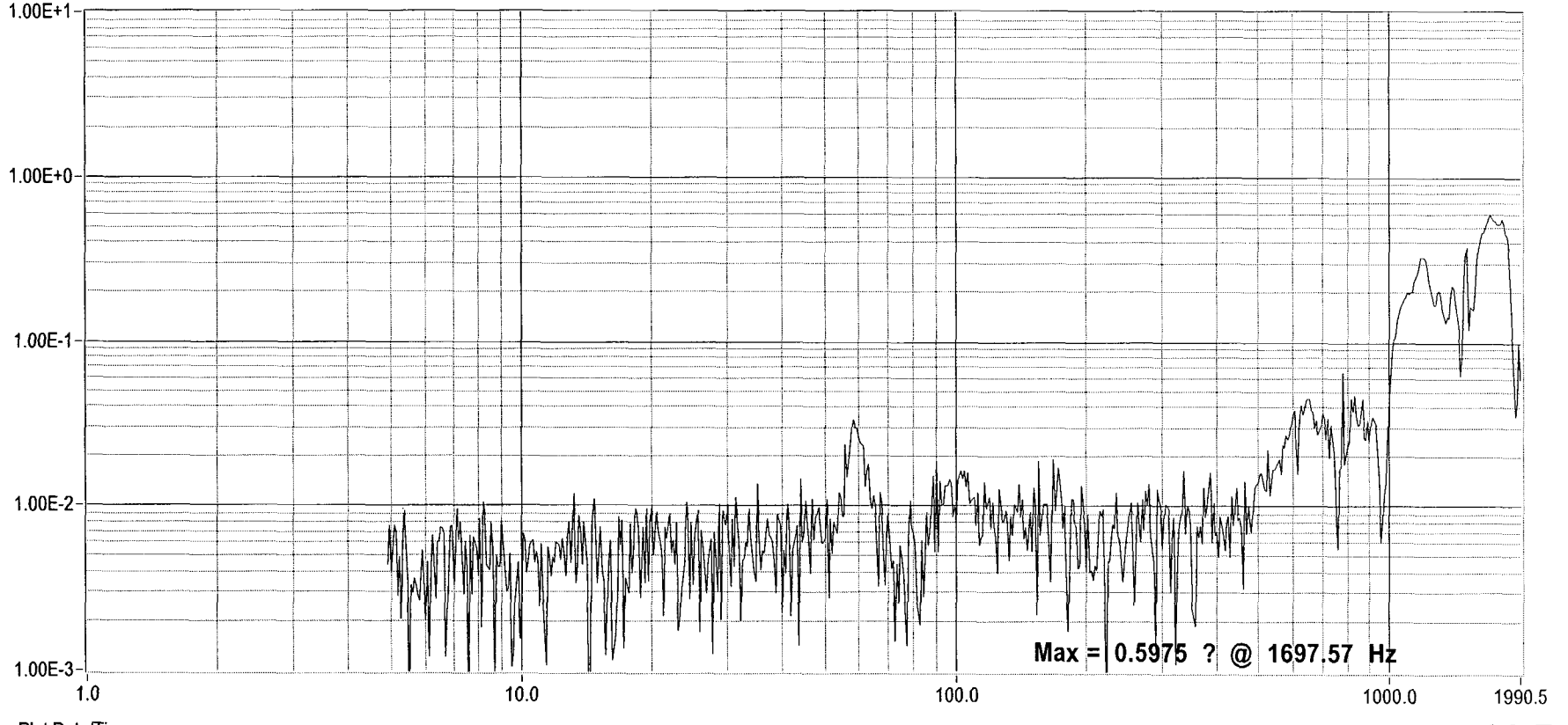
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 25 **Node Number:** 0025

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:18 AM

Frequency HZ

A9 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A10 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

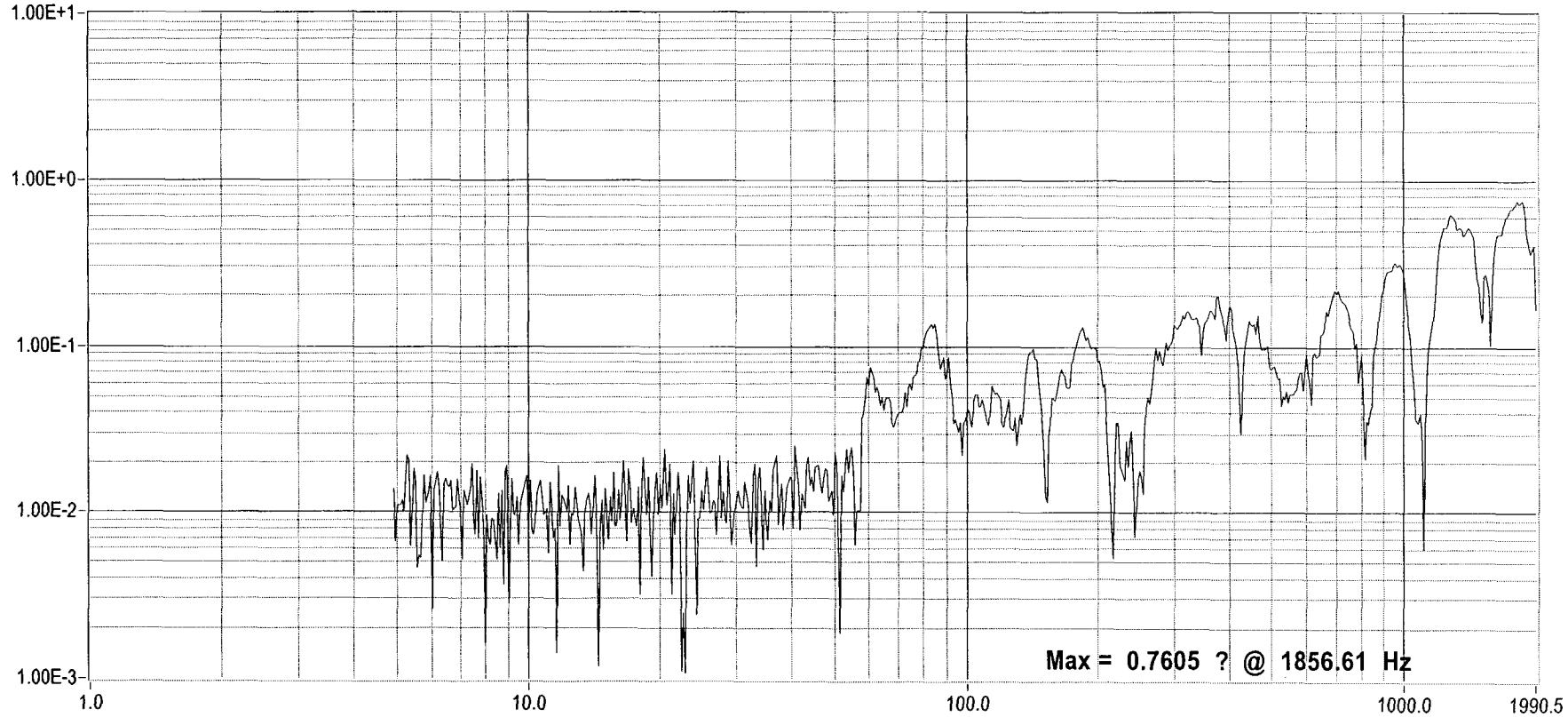
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 26 **Node Number:** 0026

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:18 AM

Frequency HZ

A10 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A10 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

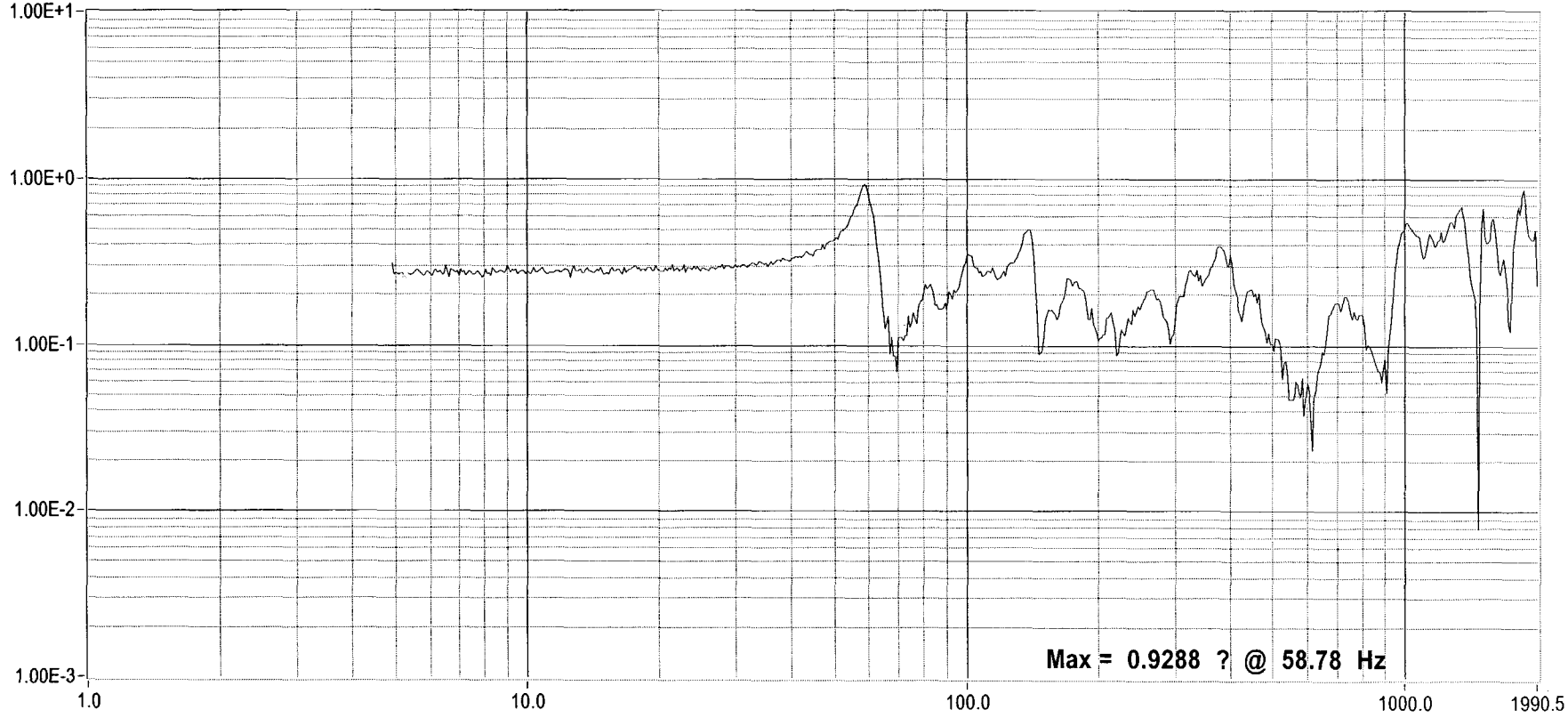
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 27 **Node Number:** 0027

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:19 AM

Frequency HZ

A10 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A10 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

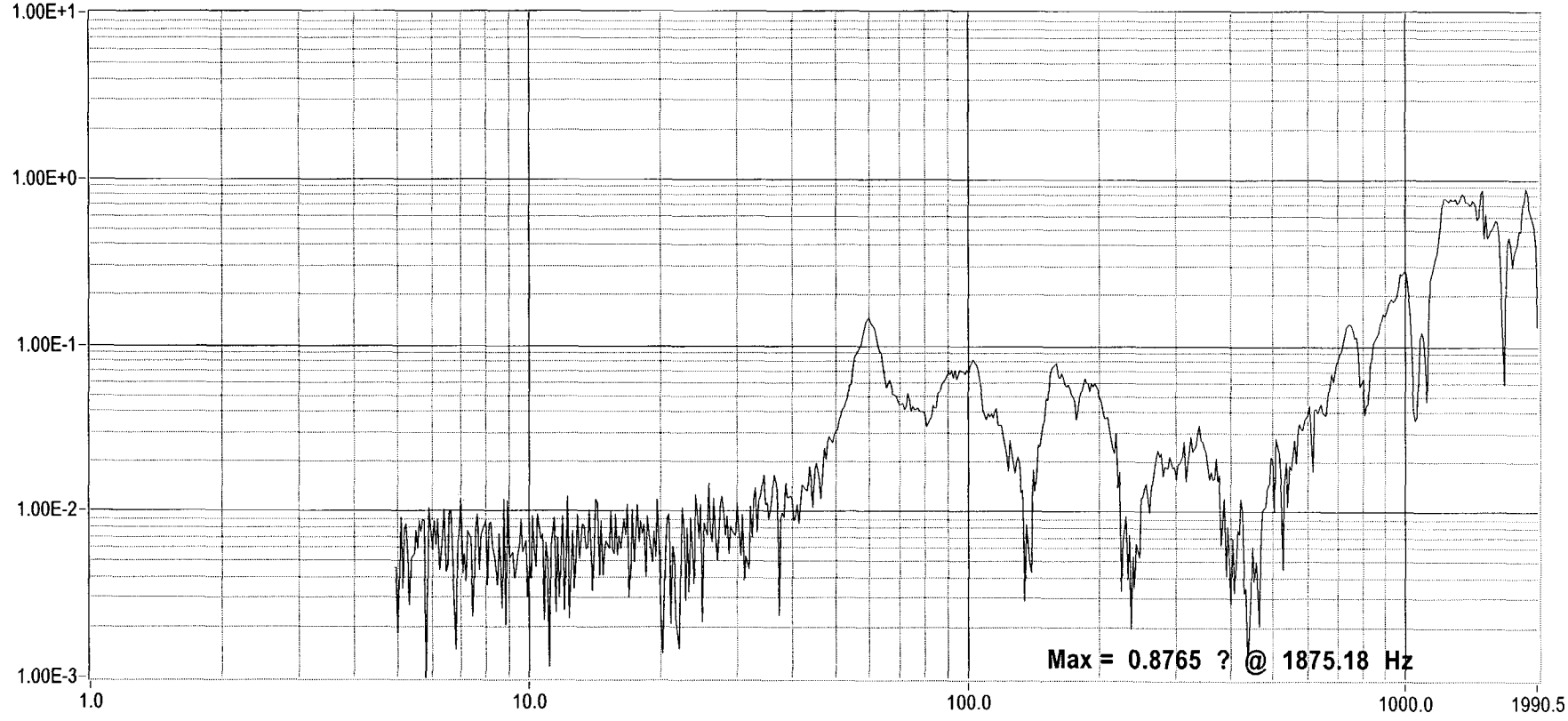
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 28 **Node Number:** 0028

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:19 AM

Frequency HZ

A10 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

DRIVE

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

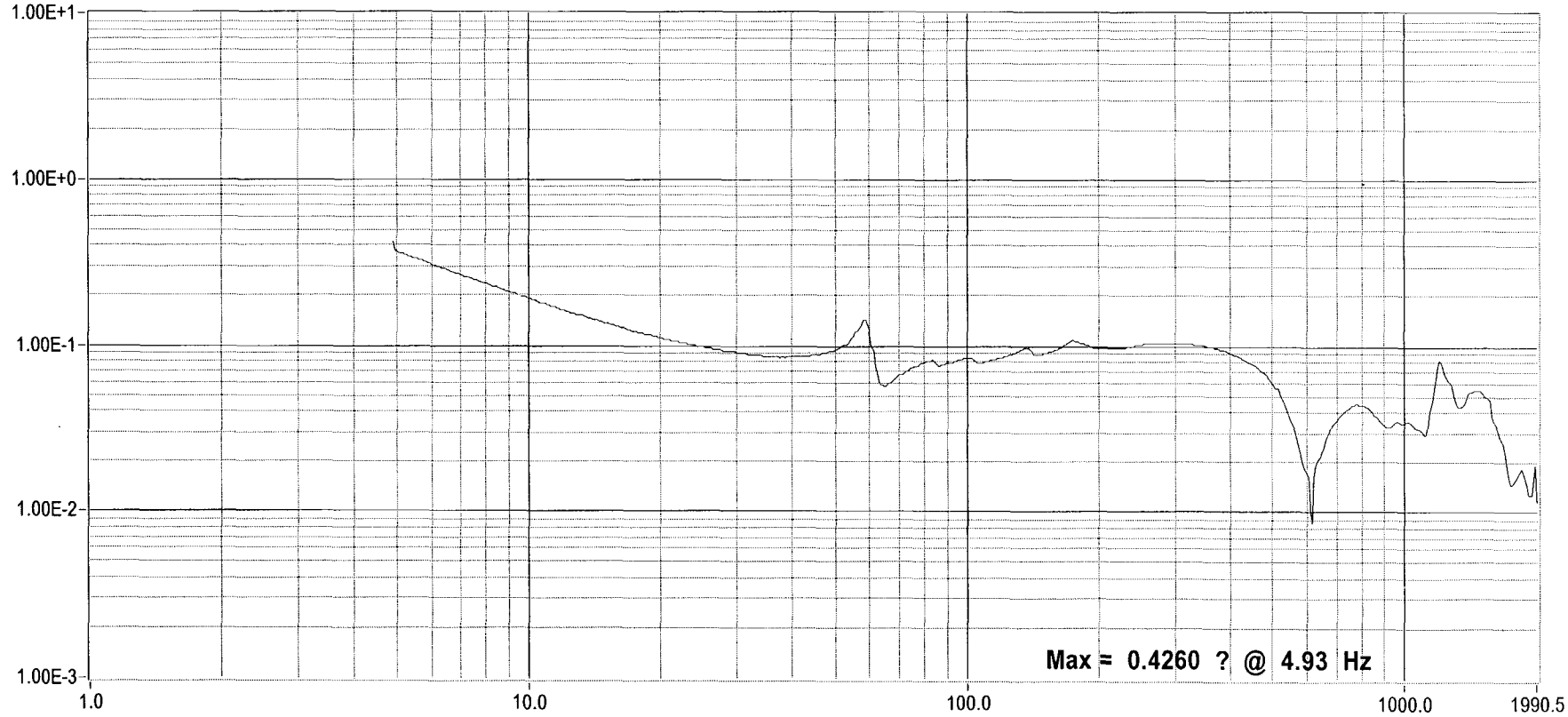
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 31 **Node Number:** 0031

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:19 AM

Frequency HZ

DRIVE

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

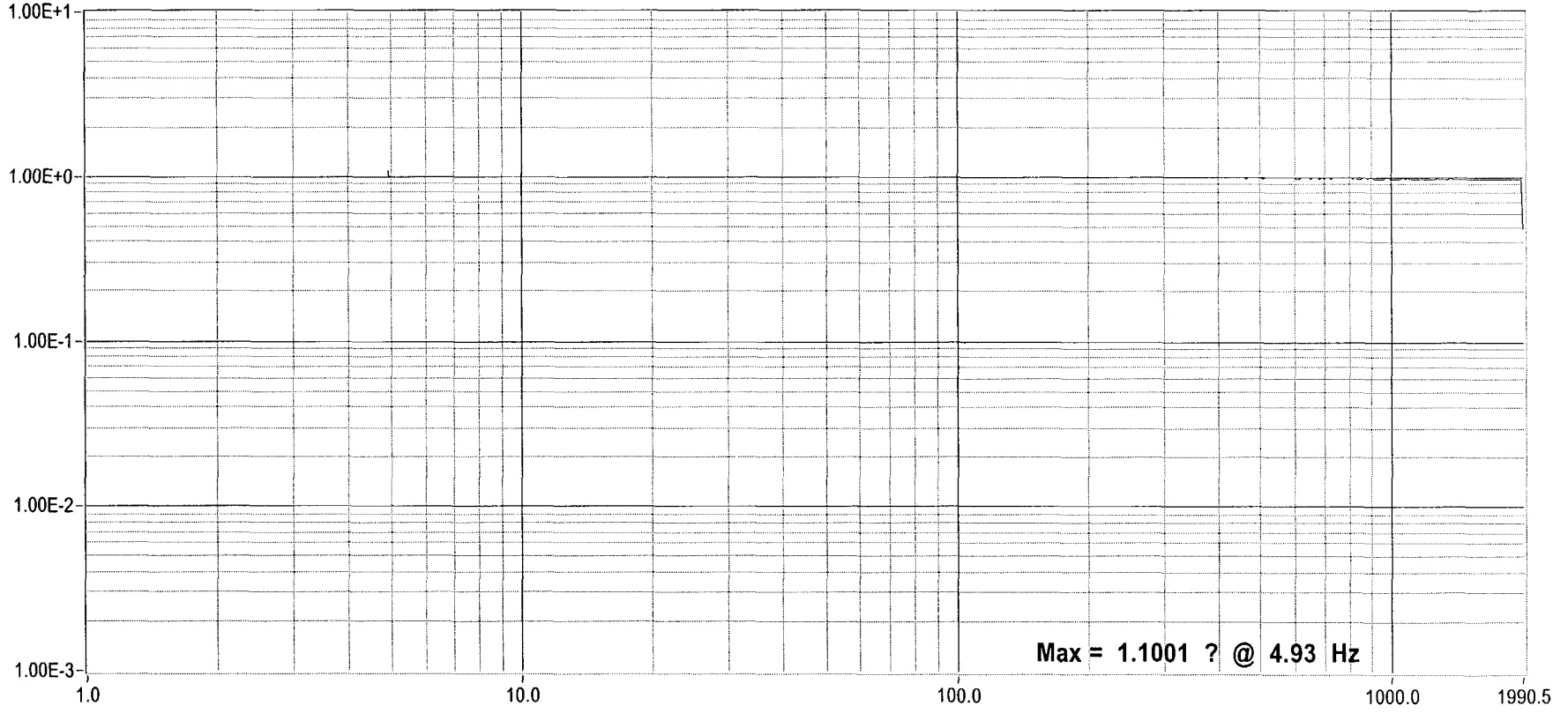
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 32 **Node Number:** 0032

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:19 AM

Frequency HZ

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A1X: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

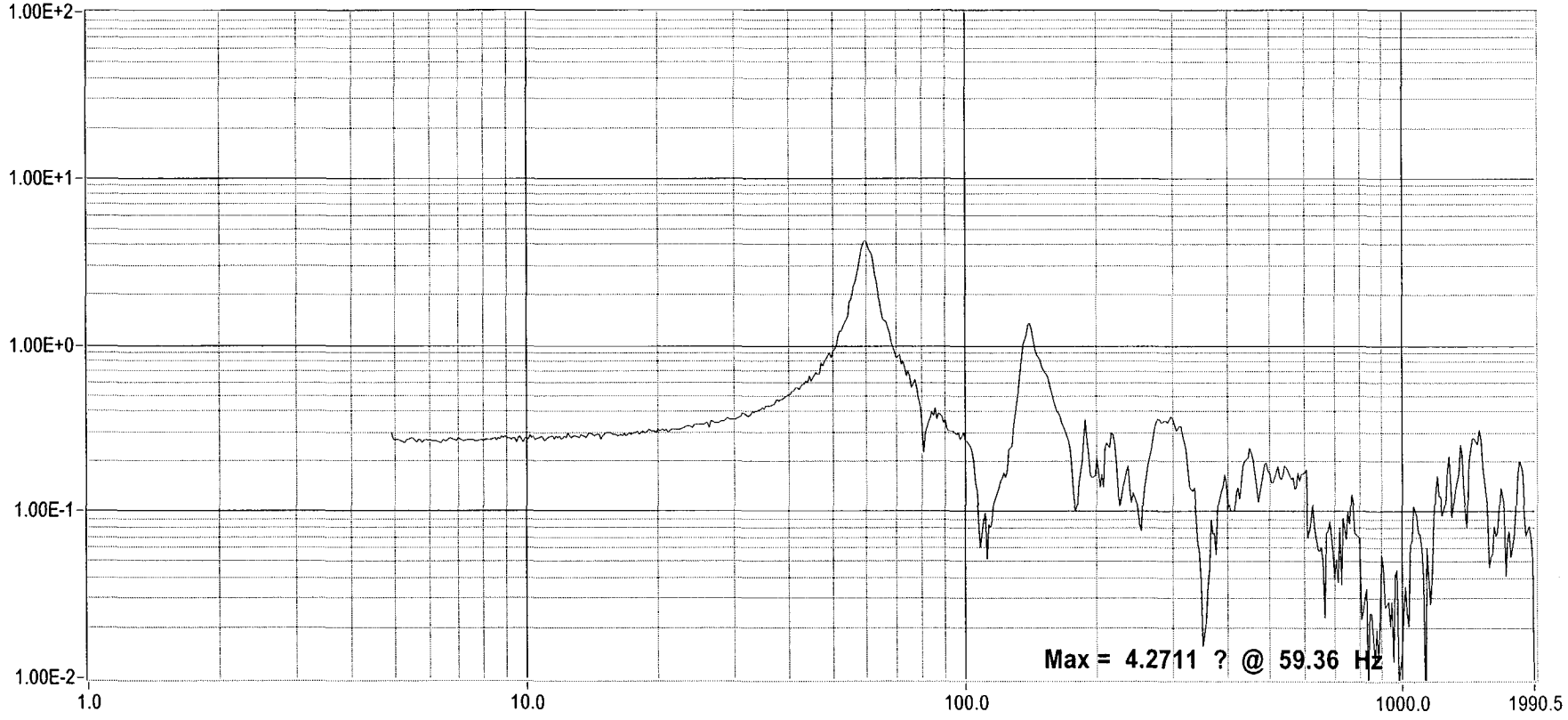
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 33 **Node Number:** 0033

Channel Description: BOX 3 CH 1 SN=AE71-1

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:20 AM

A1X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 34 **Node Number:** 0034

Channel Description: BOX 3 CH 2 SN=AC40

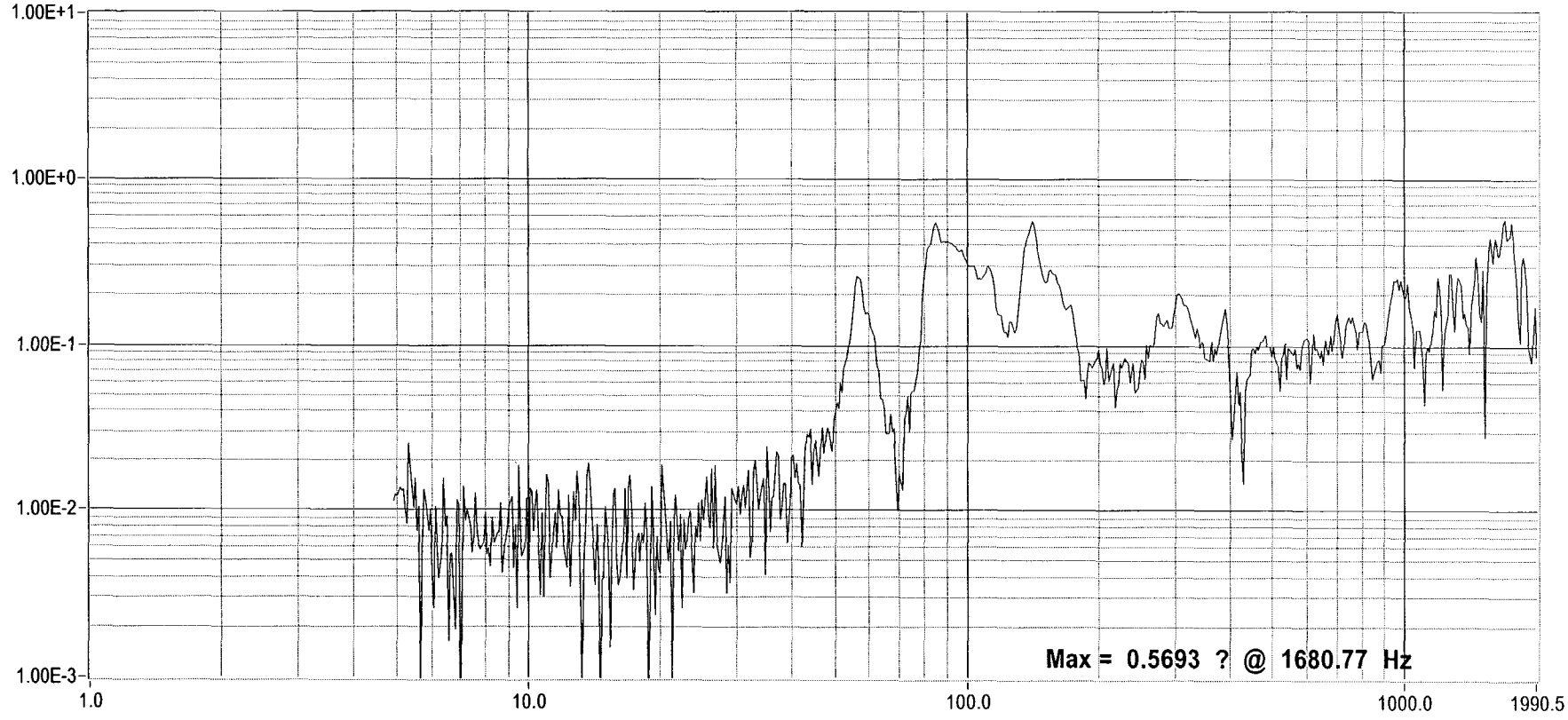
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 0:50:18

A1Y: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 1:20 AM

Frequency HZ

A1Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 35 **Node Number:** 0035

Channel Description: BOX 3 CH 3 SN=AD72

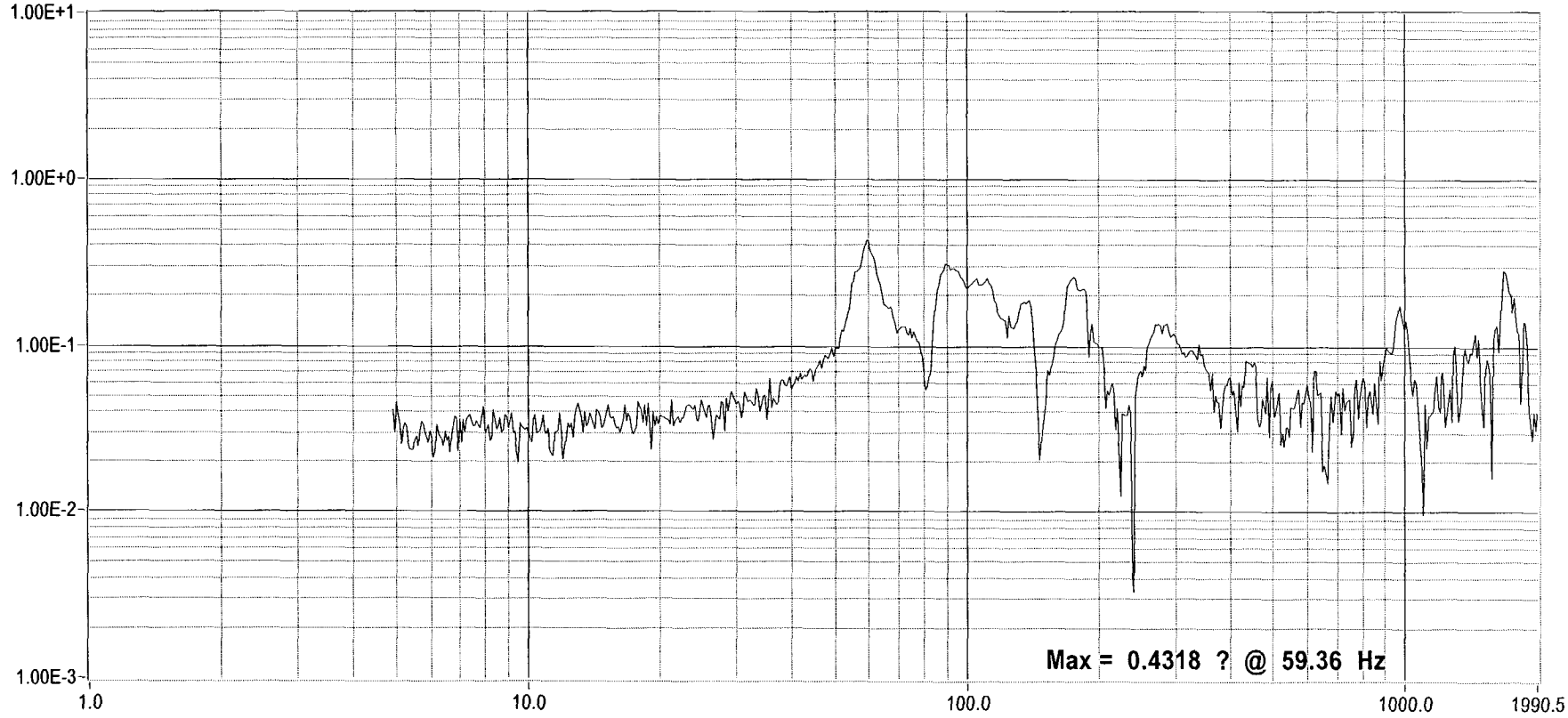
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A1Z: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:20 AM

Frequency HZ

A1Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 36 **Node Number:** 0036

Channel Description: BOX 3 CH 4 SN=AF35

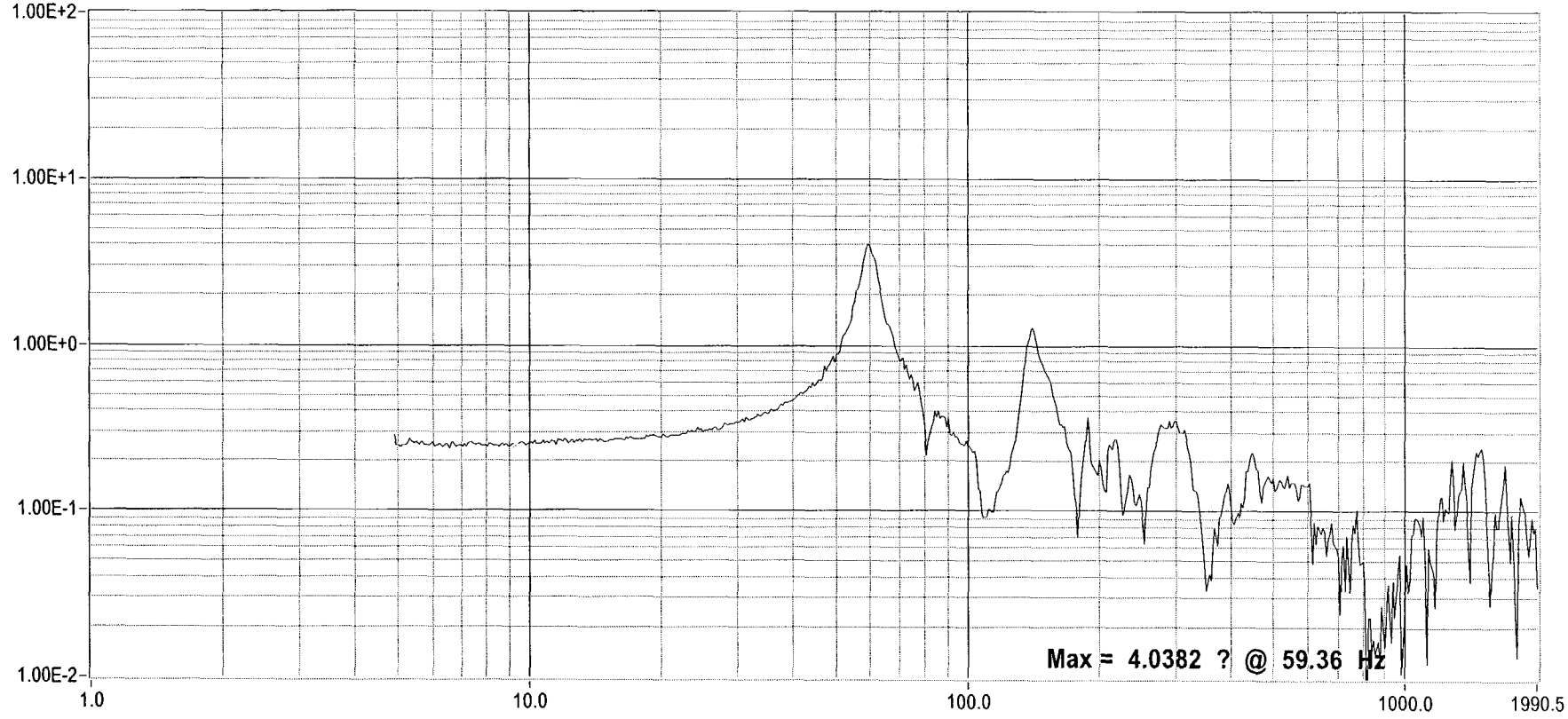
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A1RX: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:20 AM

Frequency HZ

A1RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 37 **Node Number:** 0037

Channel Description: BOX 3 CH 5 SN=AB88

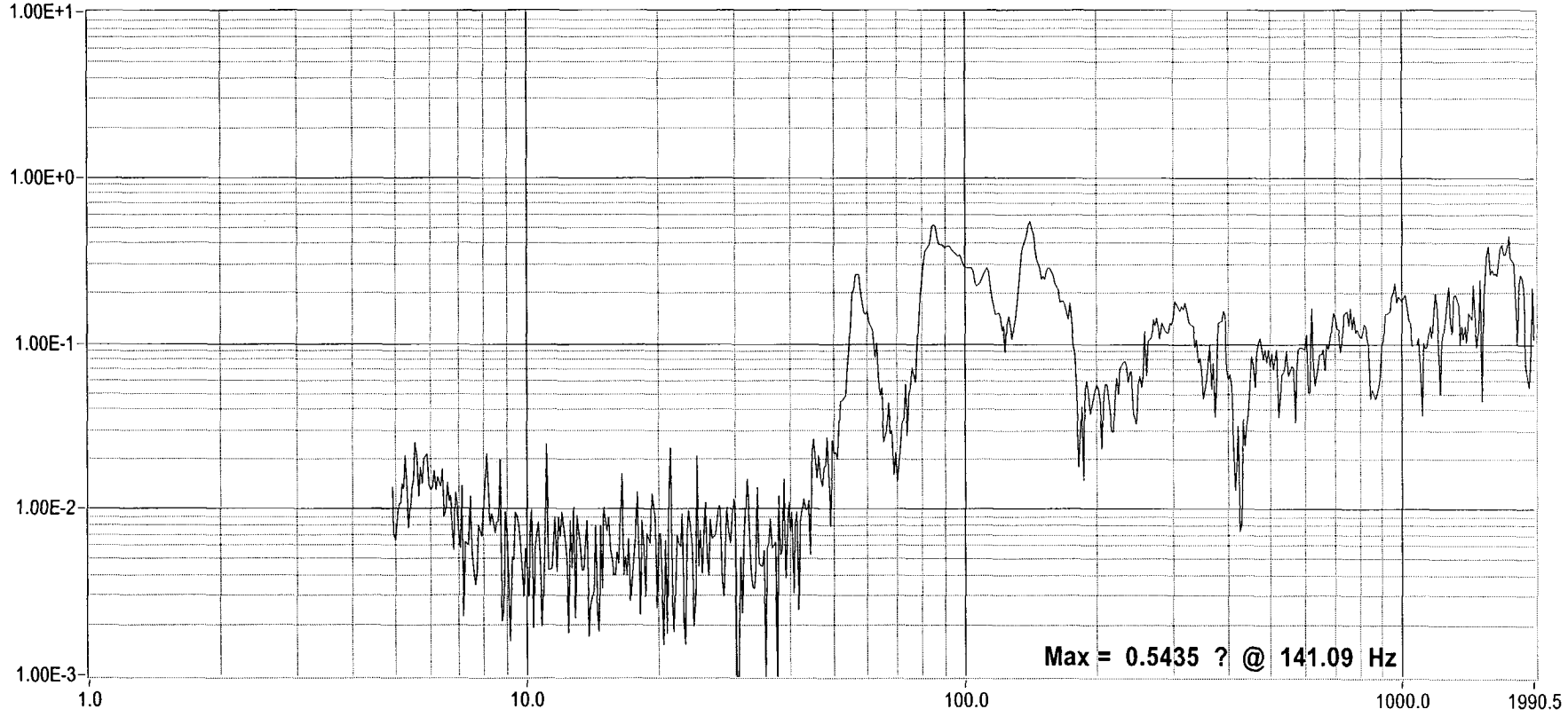
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A1RY: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:21 AM

Frequency HZ

A1RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 38 **Node Number:** 0038

Channel Description: BOX 3 CH 6 SN=AG51

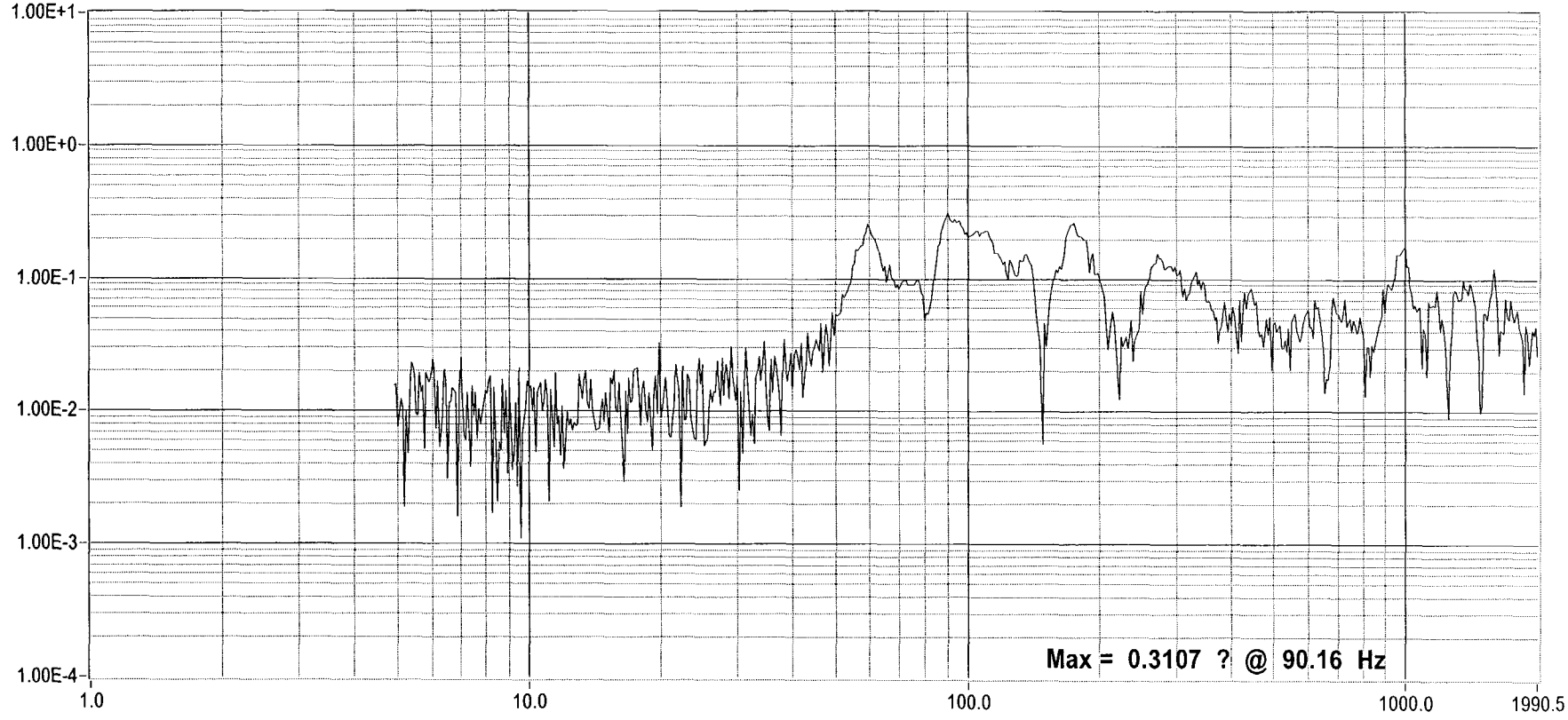
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A1RZ: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:21 AM

Frequency HZ

A1RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 39 **Node Number:** 0039

Channel Description: BOX 3 CH 7 SN=AK10

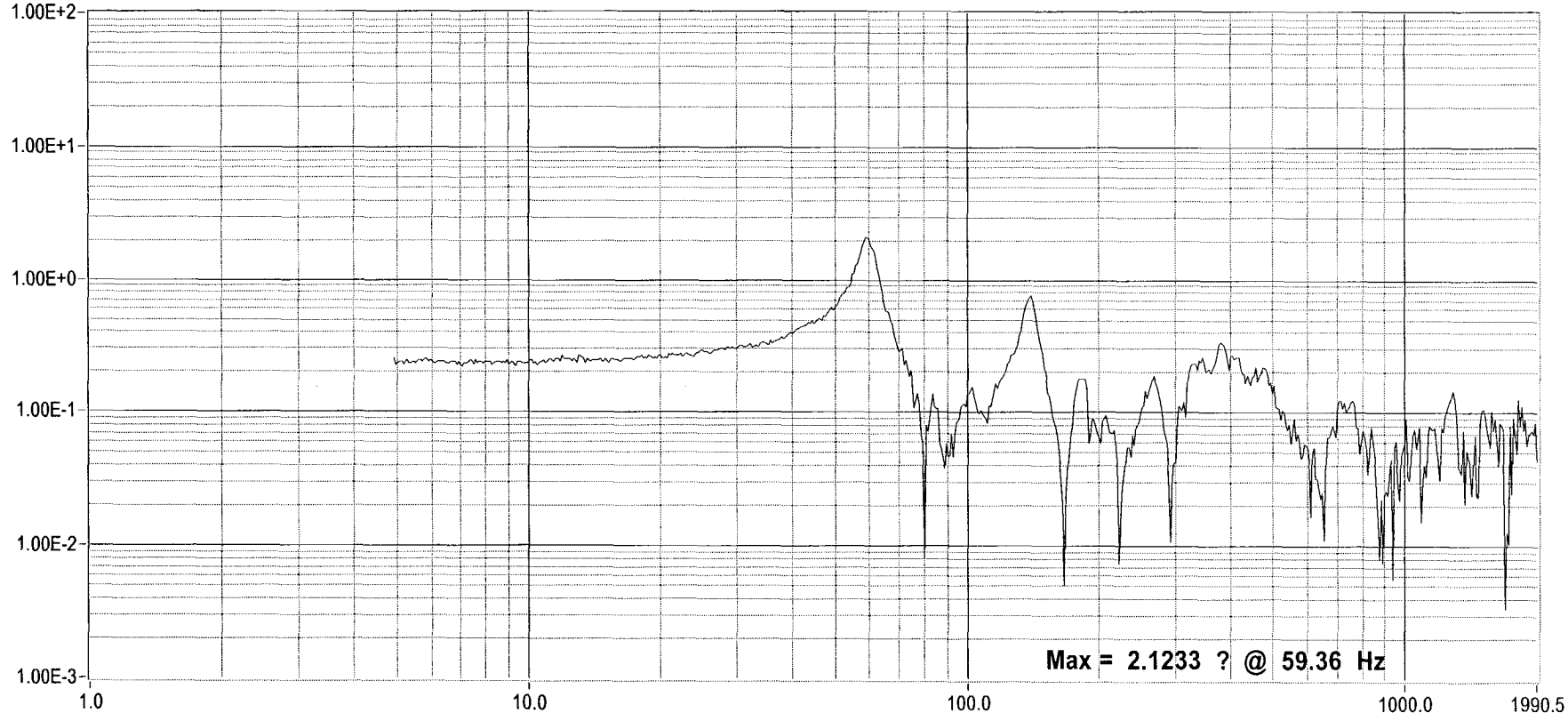
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A2X: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:21 AM

Frequency HZ

A2X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 40 **Node Number:** 0040

Channel Description: BOX 3 CH 8 SN=AB06

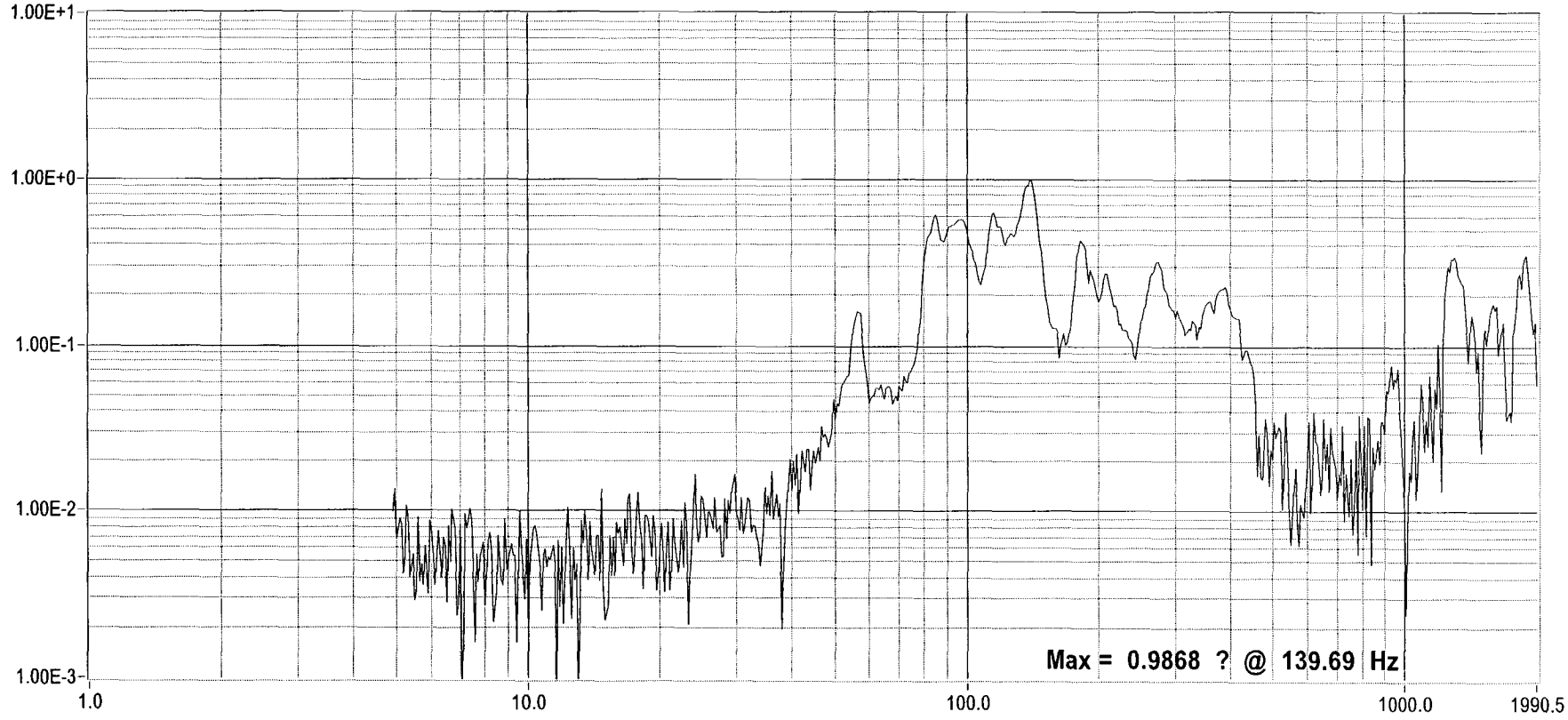
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A2Y: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:21 AM

Frequency HZ

A2Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 41 **Node Number:** 0041

Channel Description: BOX 3 CH 9 SN=AF28

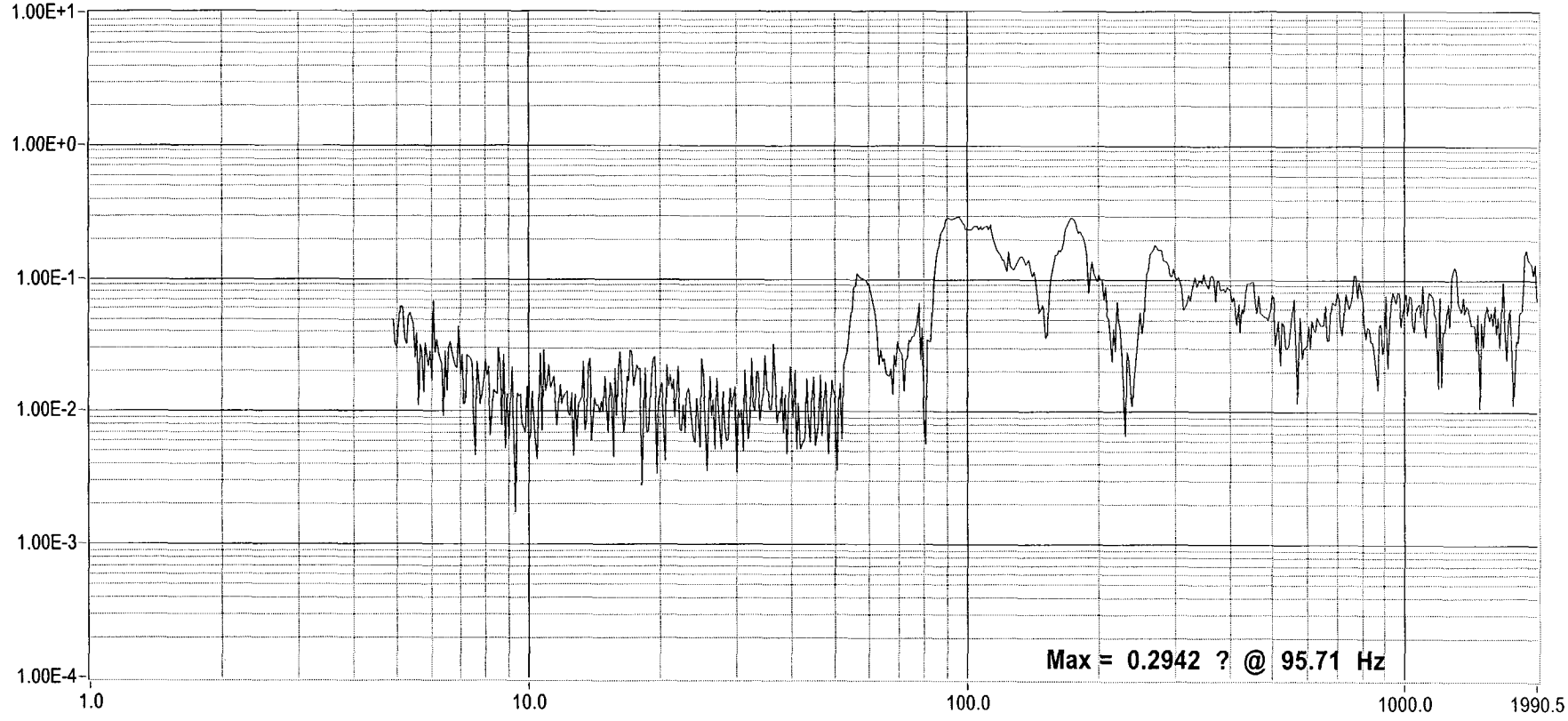
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 0:50:18

A2Z: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 1:22 AM

Frequency HZ

A2Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A2RX: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

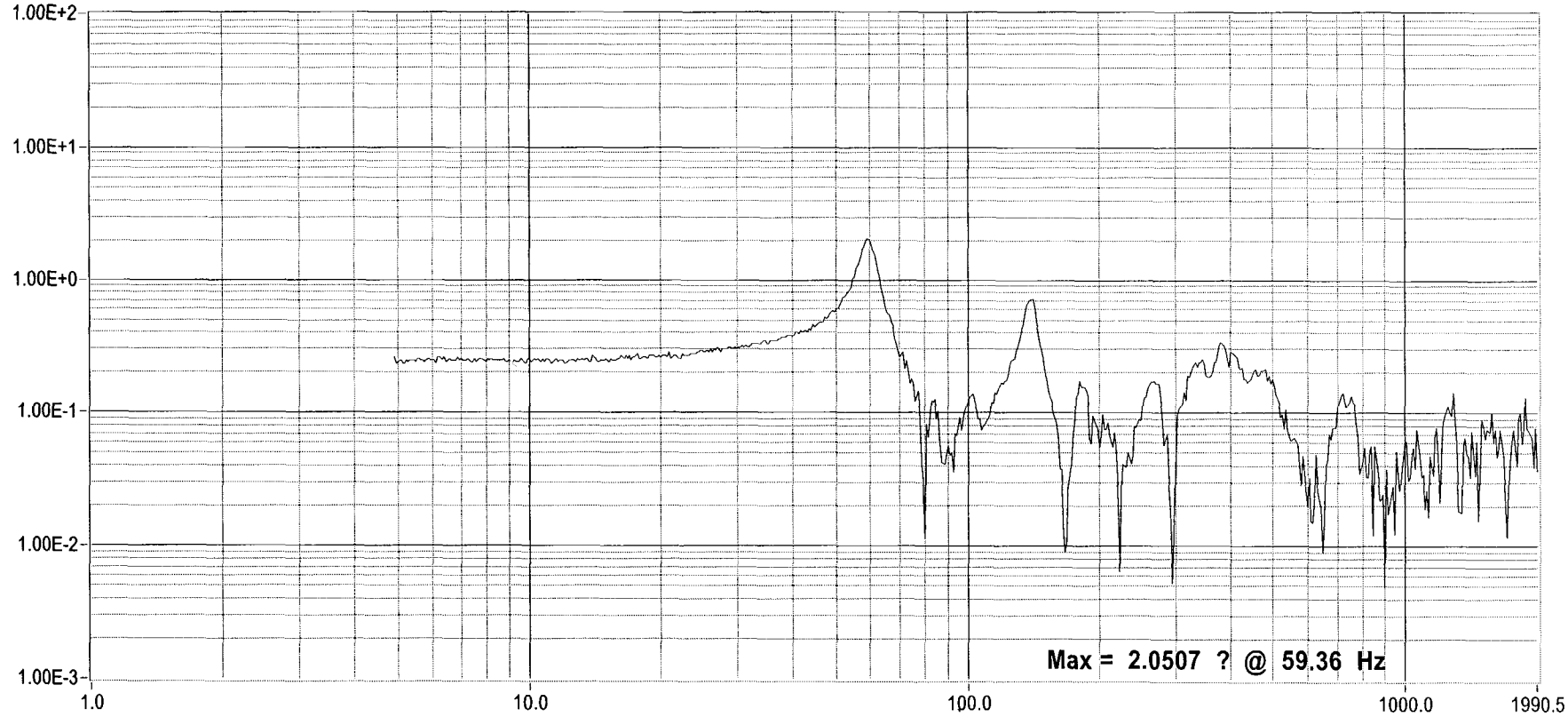
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 42 **Node Number:** 0042

Channel Description: BOX 3 CH 10 SN=AJ30

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:22 AM

Frequency HZ

A2RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A2RY: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

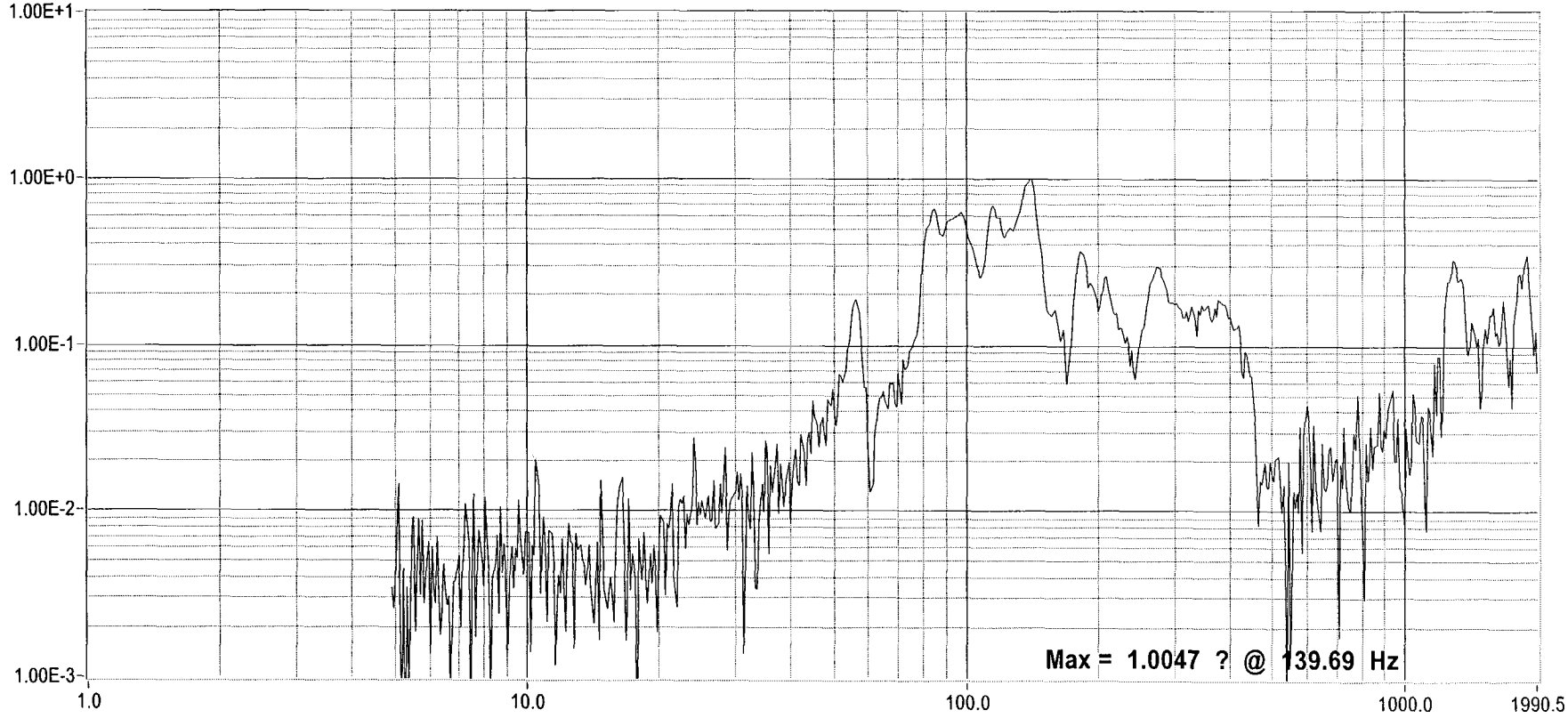
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 43 **Node Number:** 0043

Channel Description: BOX 3 CH 11 SN=AE60

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:22 AM

Frequency HZ

A2RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A2RZ: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

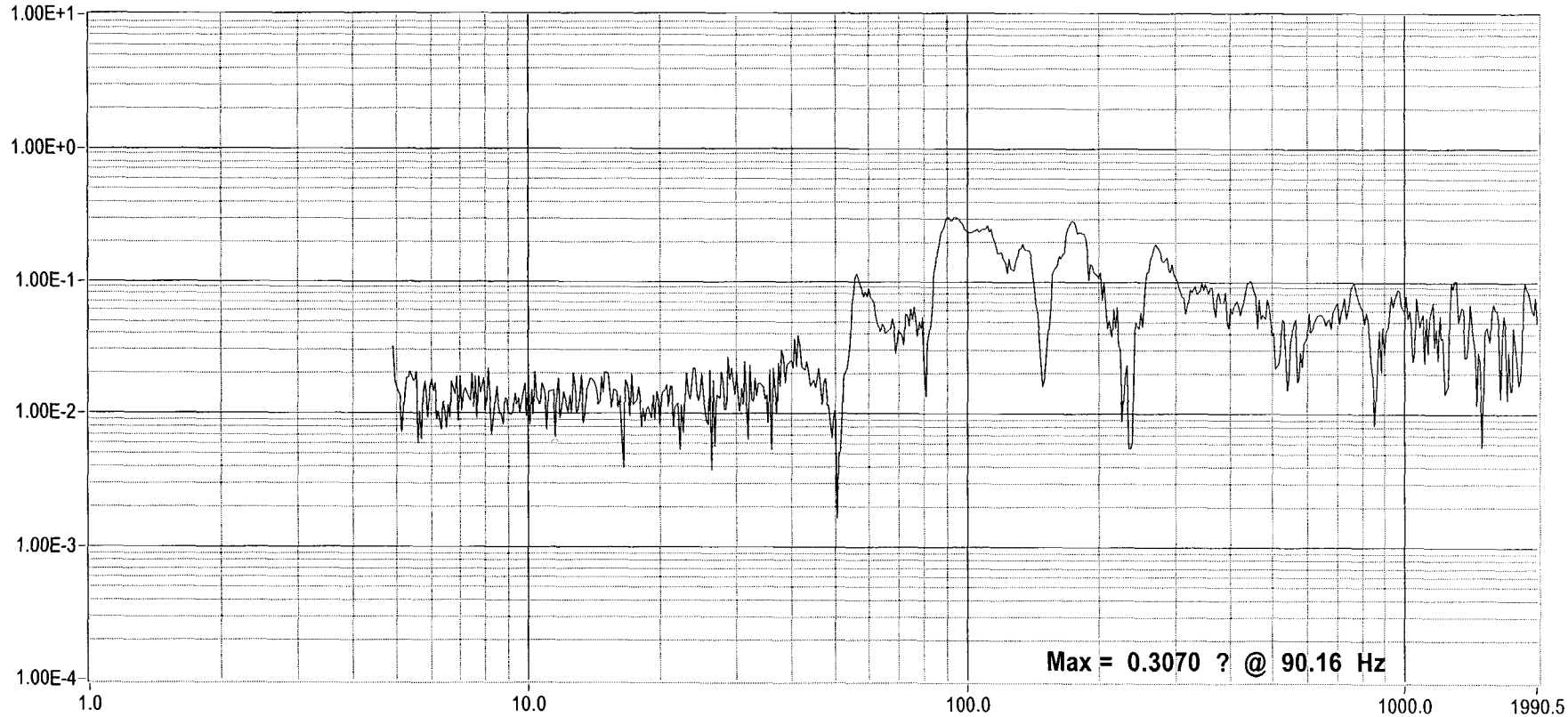
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 44 **Node Number:** 0044

Channel Description: BOX 3 CH 12 SN=AG01

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:22 AM

Frequency HZ

A2RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

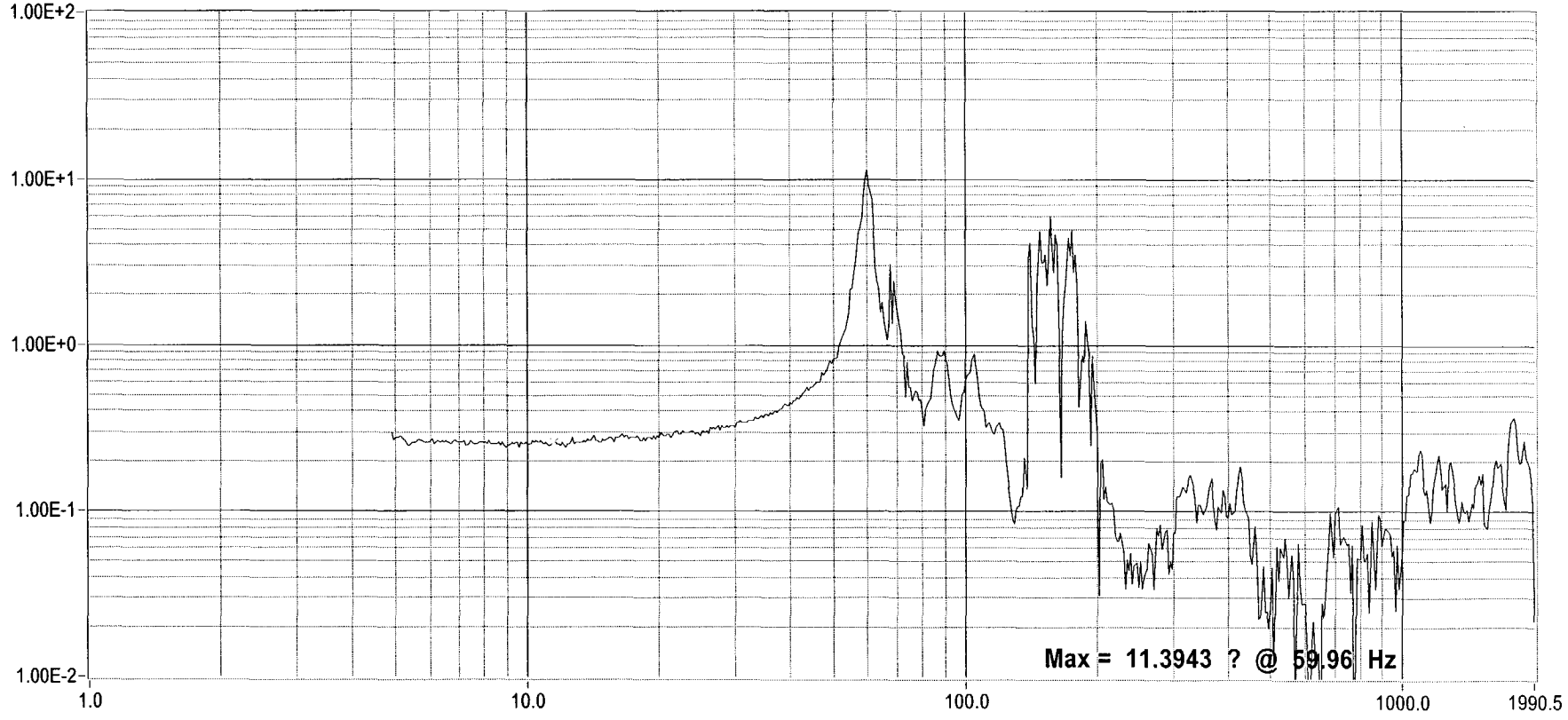
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 0:50:18

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 1:23 AM

Frequency HZ

A3X: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 46 **Node Number:** 0046

Channel Description: BOX 3 CH 14 SN=AG02

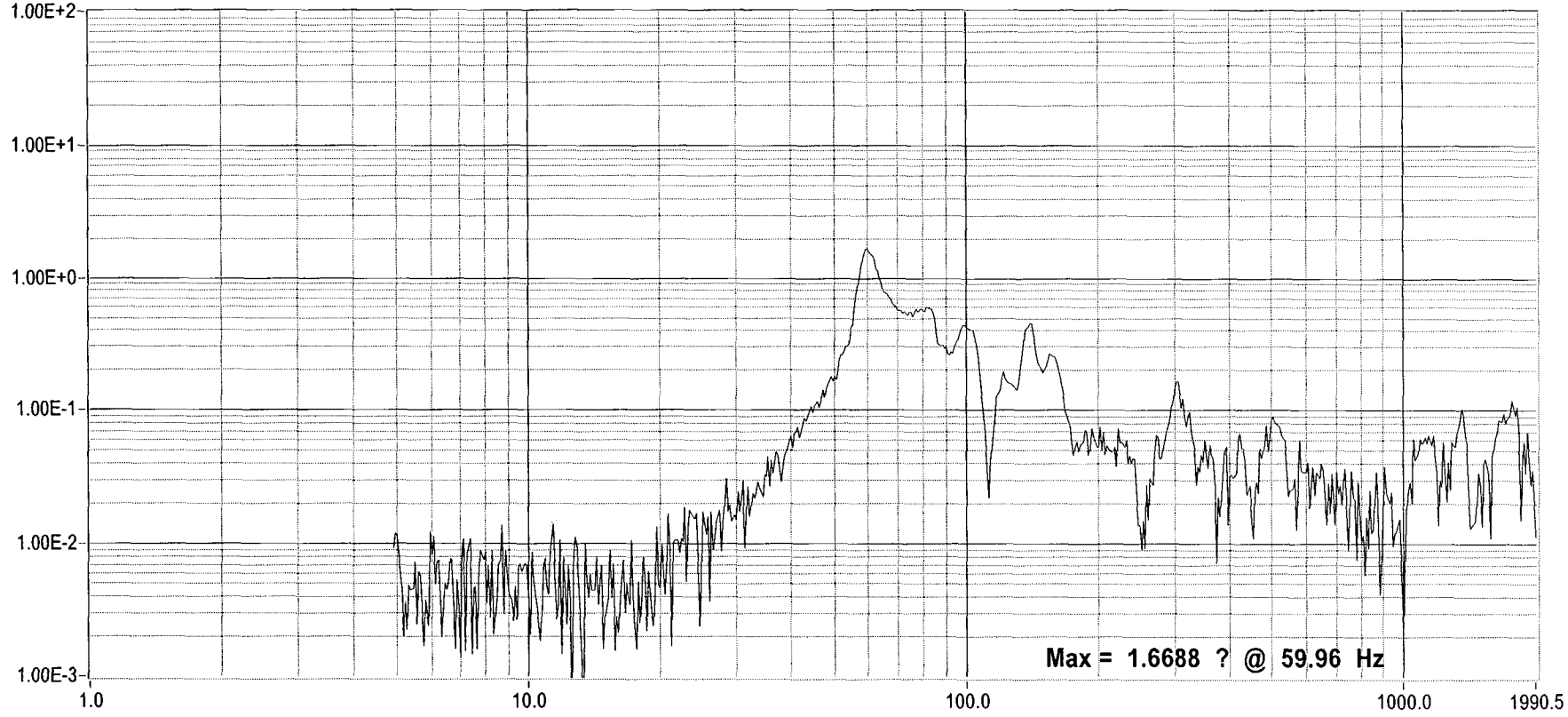
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A3Y: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:23 AM

Frequency HZ

A3Y: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 47 **Node Number:** 0047

Channel Description: BOX 3 CH 15 SN=BC12

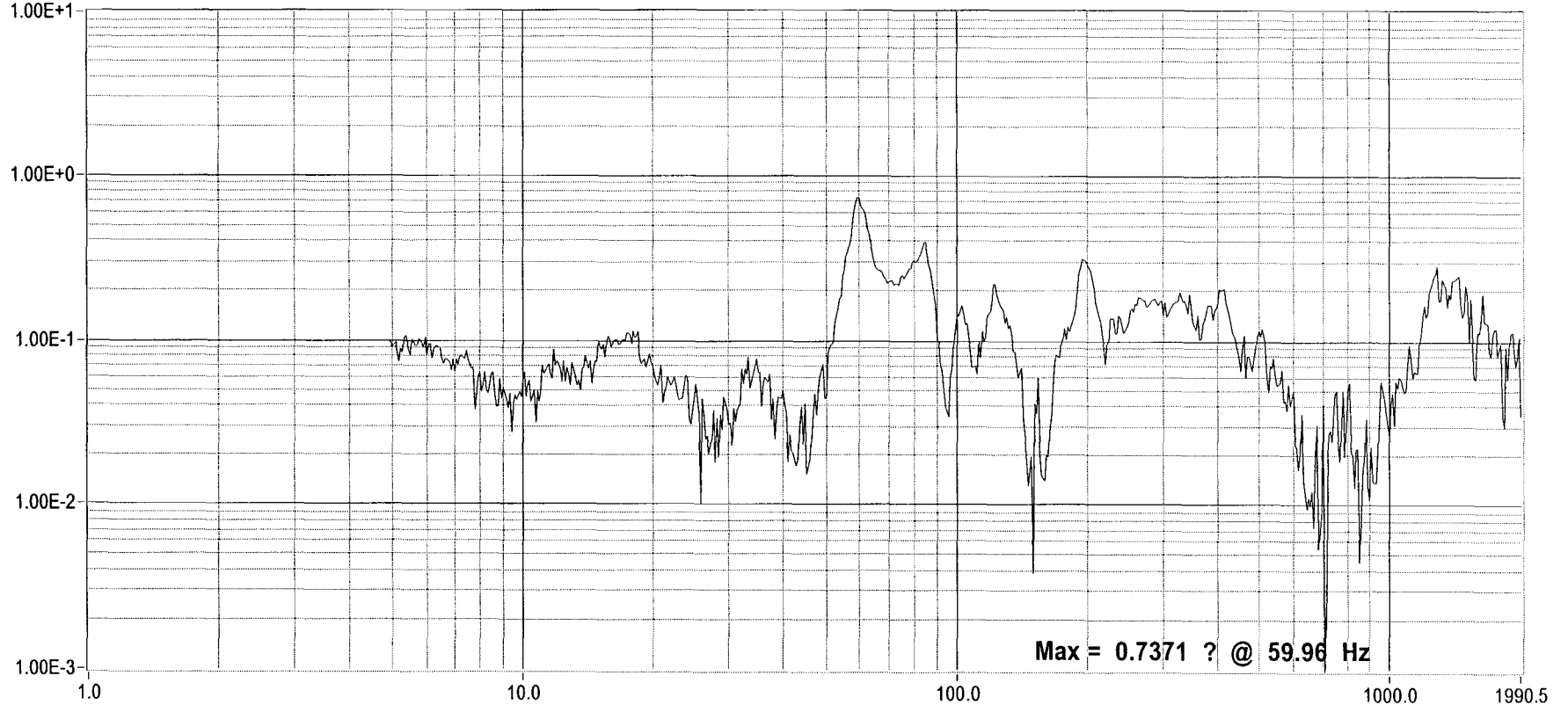
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A3Z: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:23 AM

Frequency HZ

A3Z: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A3RX: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

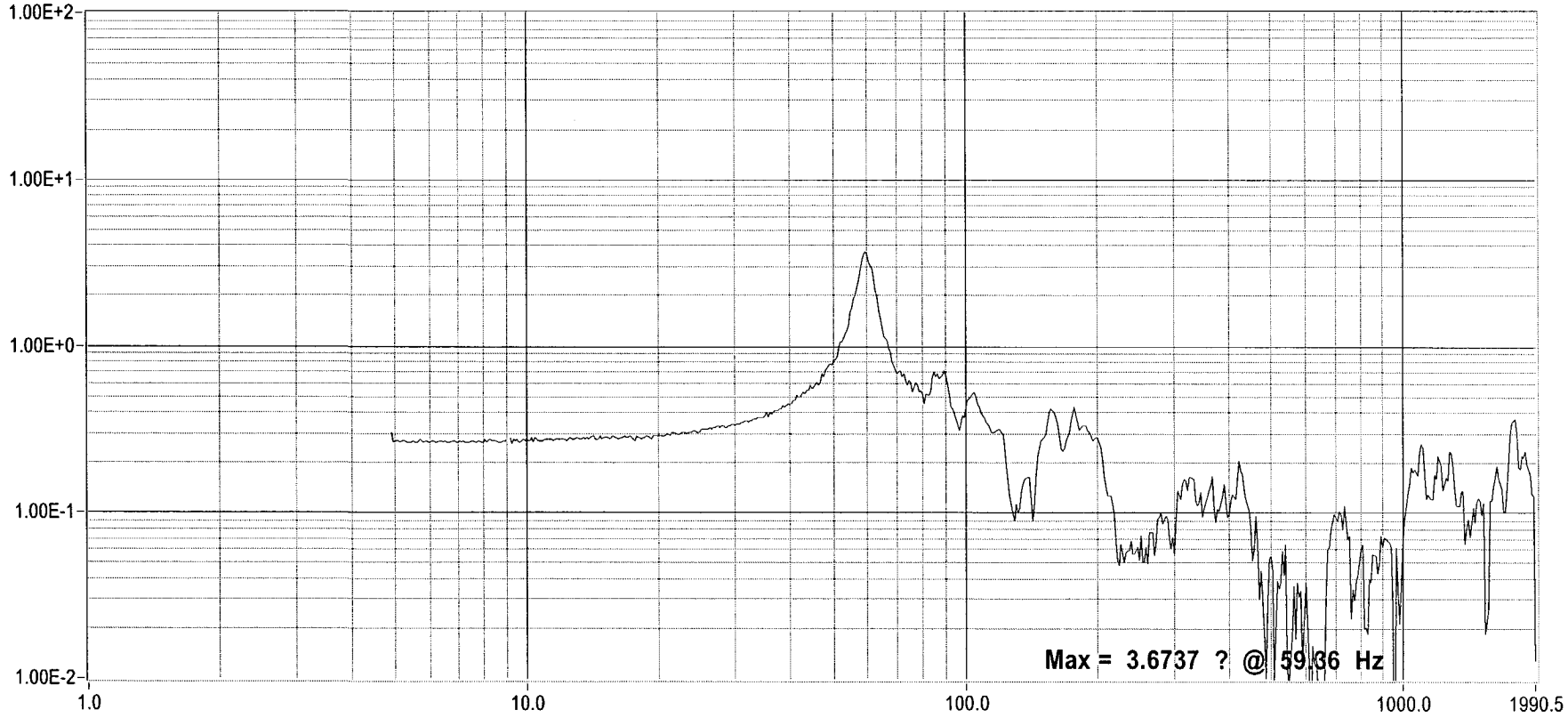
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 48 **Node Number:** 0048

Channel Description: BOX 3 CH 16 SN=AE43

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:24 AM

Frequency HZ

A3RX: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 49 **Node Number:** 0049

Channel Description: BOX 4 CH 1 SN=AF57

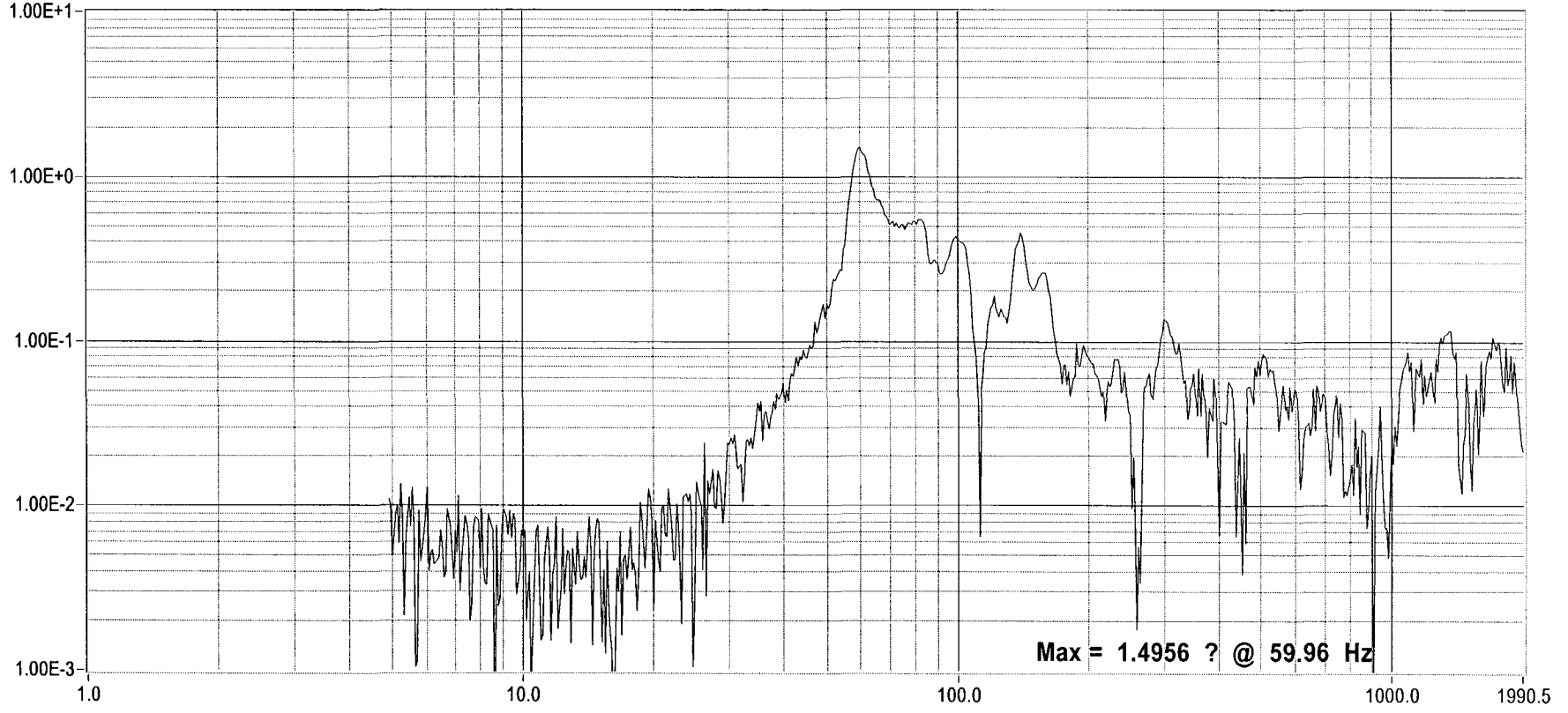
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 0:50:18

A3RY: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 1:24 AM

Frequency HZ

A3RY: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 50 **Node Number:** 0050

Channel Description: BOX 4 CH 2 SN=AB65

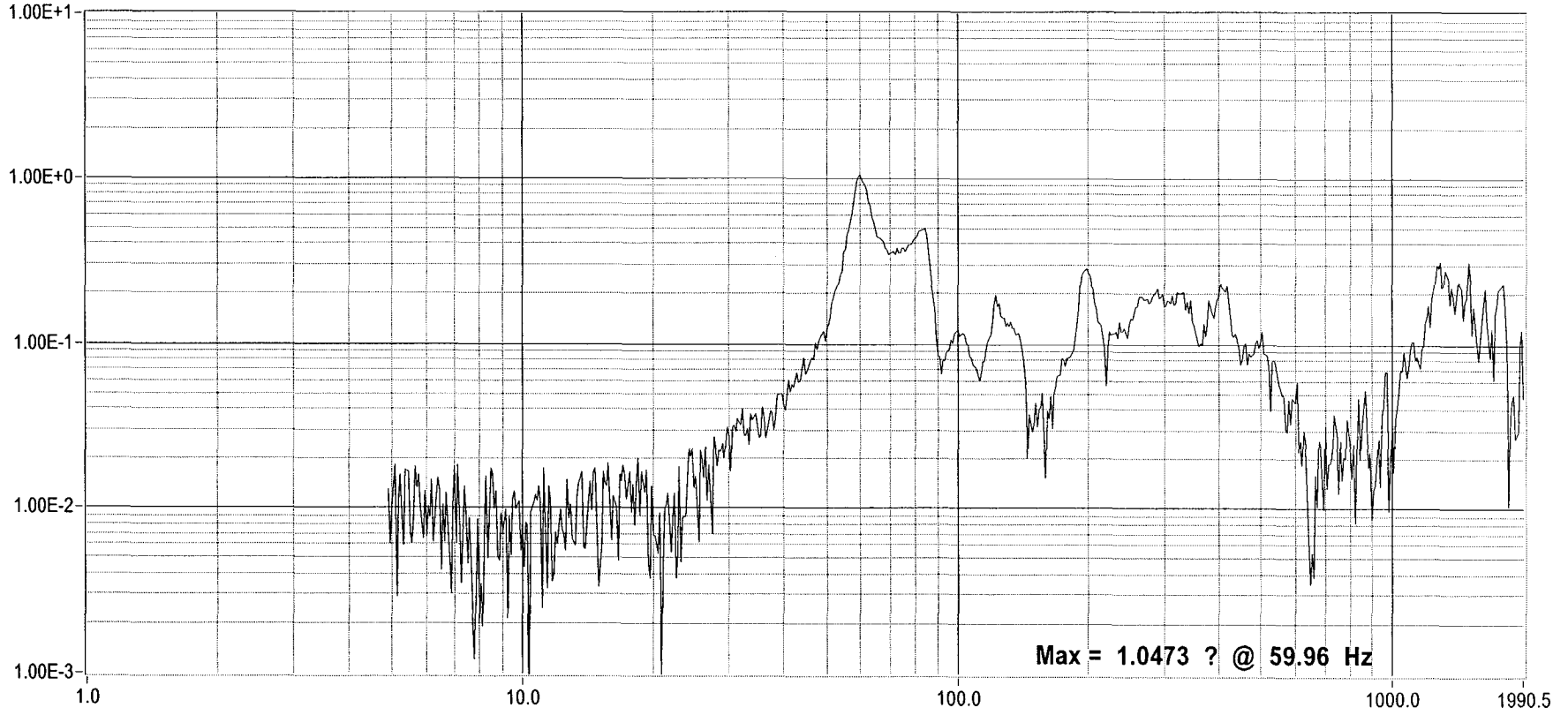
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A3RZ: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:24 AM

Frequency HZ

A3RZ: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A4X: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

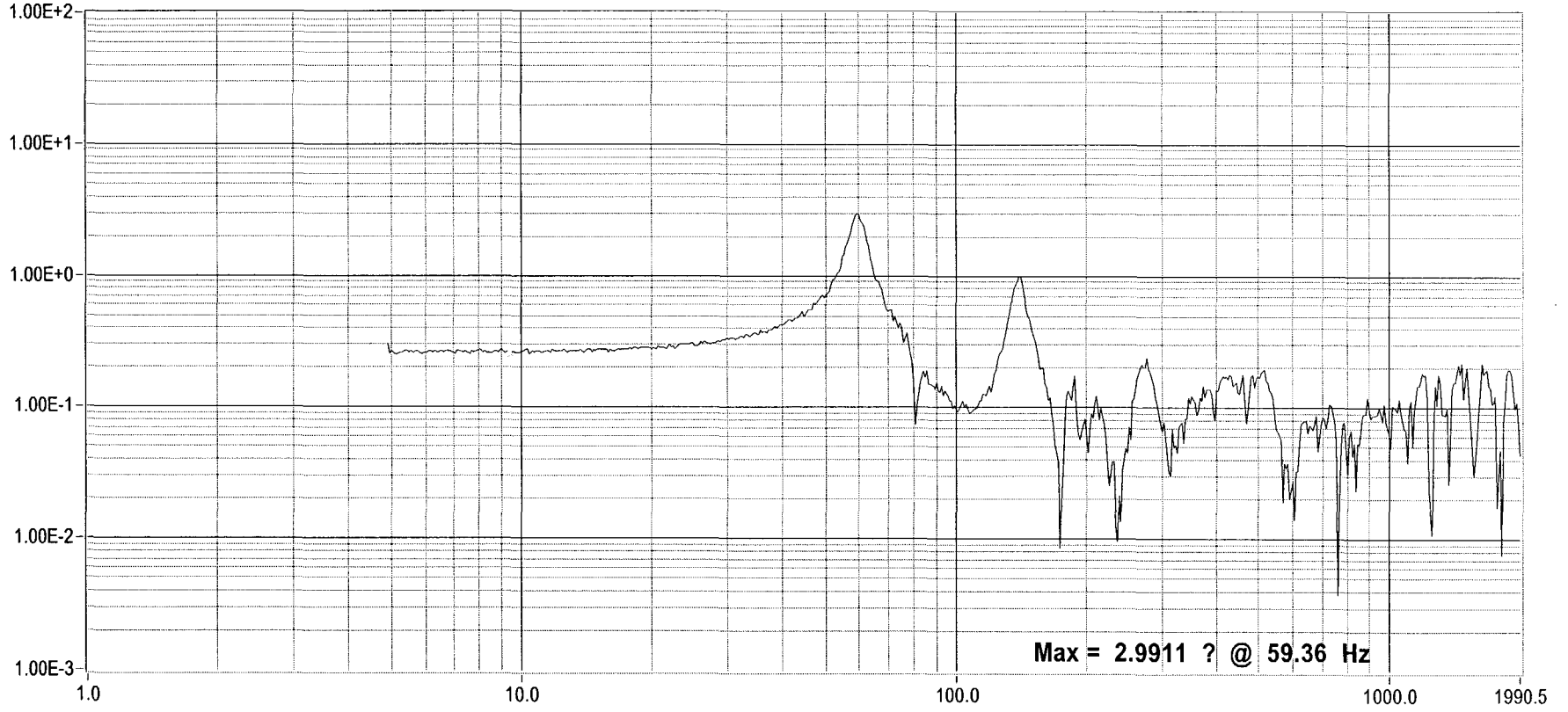
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 51 **Node Number:** 0051

Channel Description: BOX 4 CH 3 SN=AH55

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:24 AM

Frequency HZ

A4X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A4Y: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

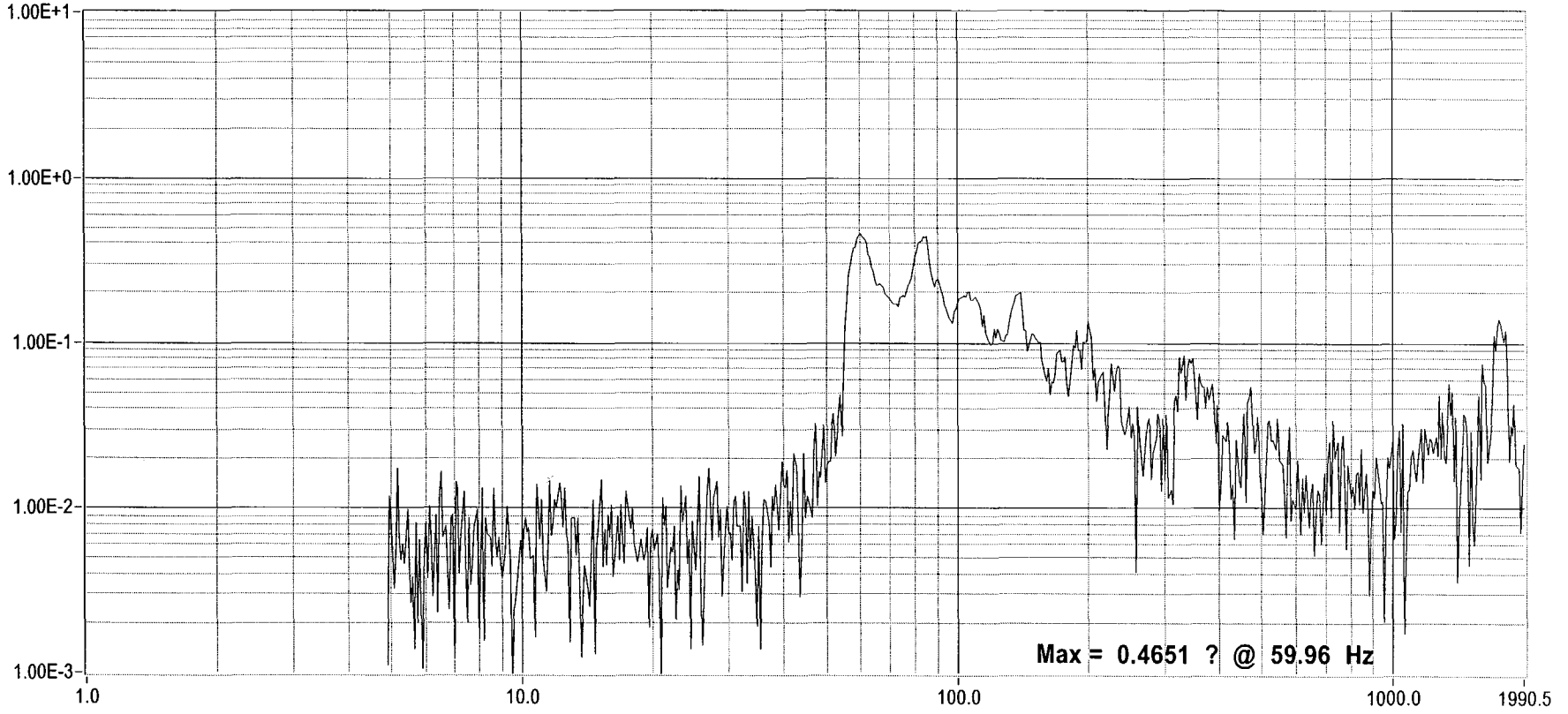
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 52 **Node Number:** 0052

Channel Description: BOX 4 CH 4 SN=AJ95

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:25 AM

Frequency HZ

A4Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 53 **Node Number:** 0053

Channel Description: BOX 4 CH 5 SN=AB55

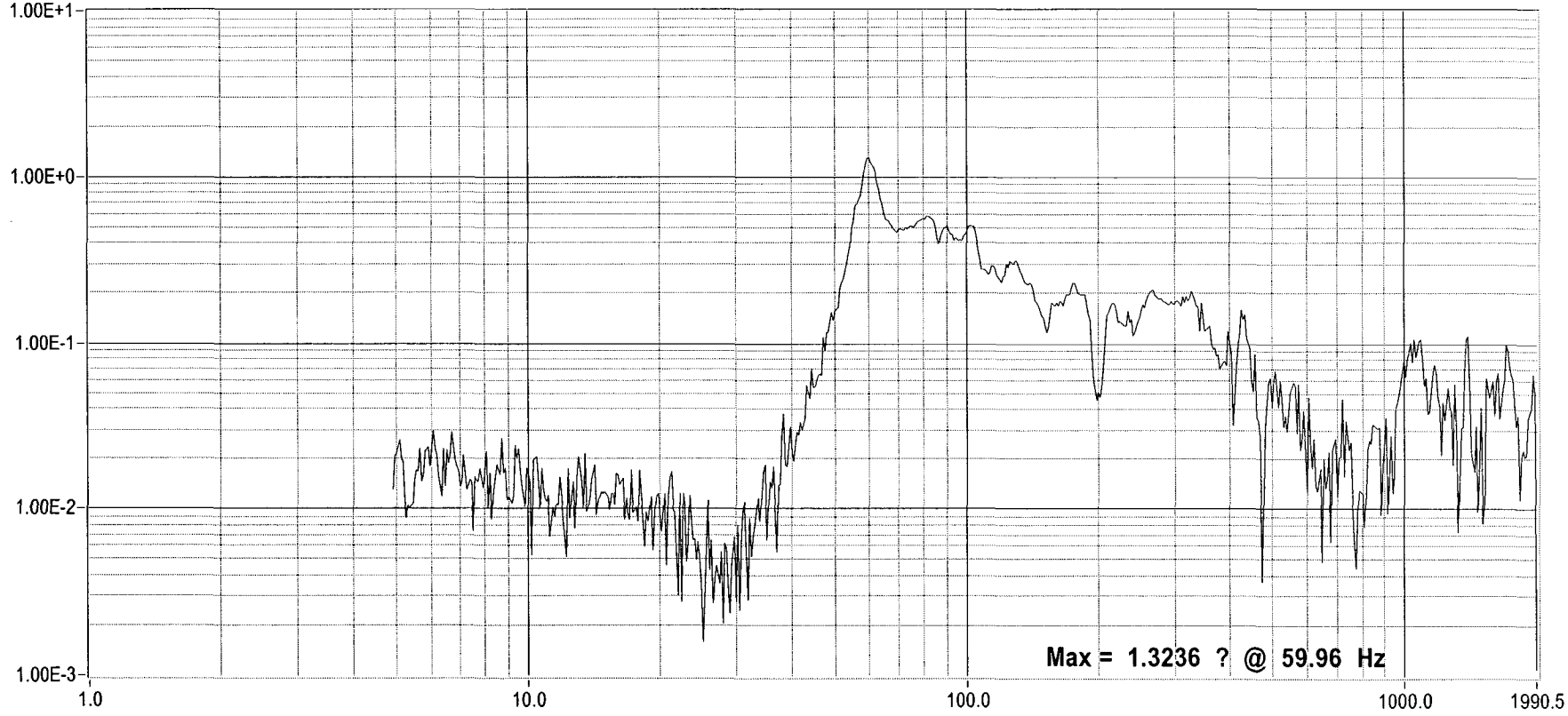
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 0:50:18

A4Z: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 1:25 AM

Frequency HZ

A4Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 0:50:18

A4RX: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

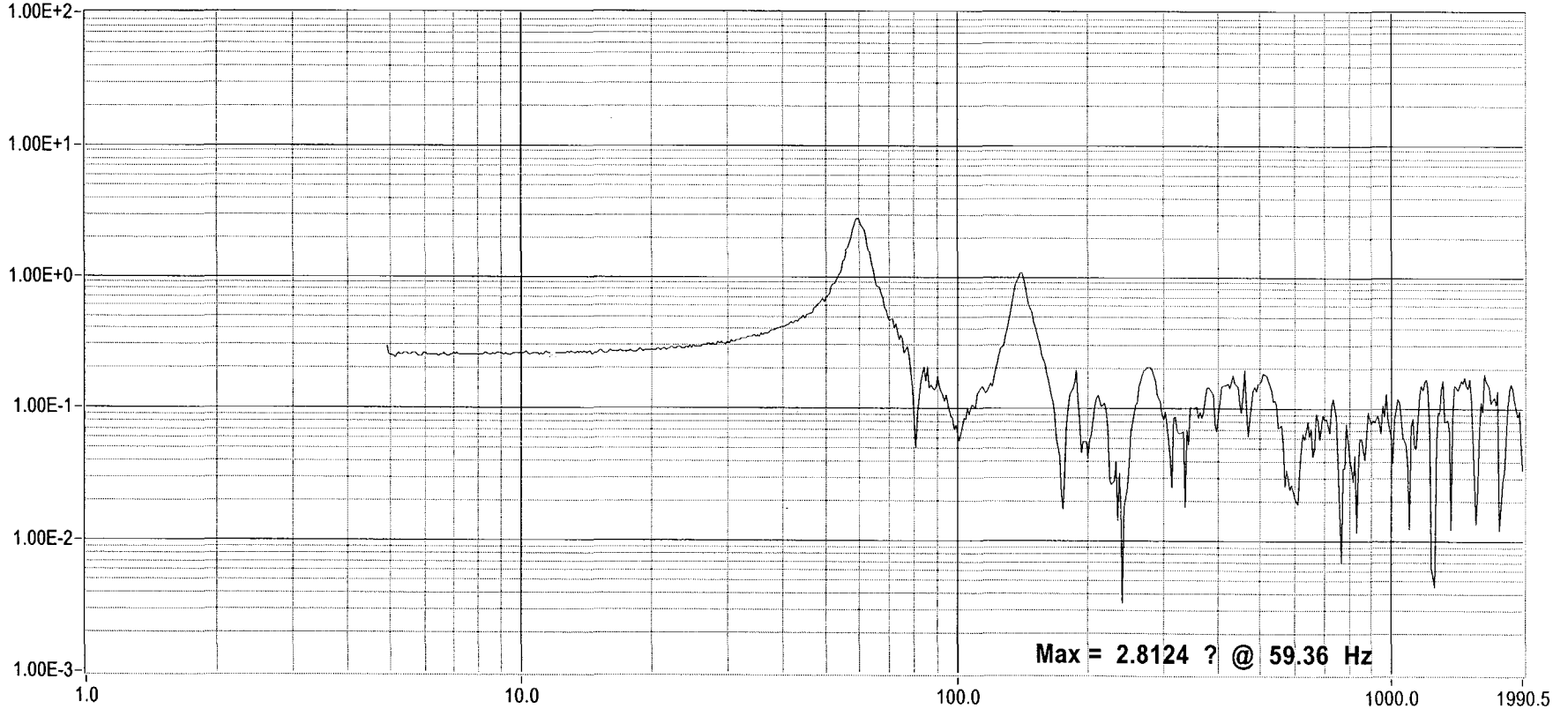
Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Channel #: 54 **Node Number:** 0054

Channel Description: BOX 4 CH 6 SN=AF10

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:25 AM

Frequency HZ

A4RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 55 **Node Number:** 0055

Channel Description: BOX 4 CH 7 SN=AF56

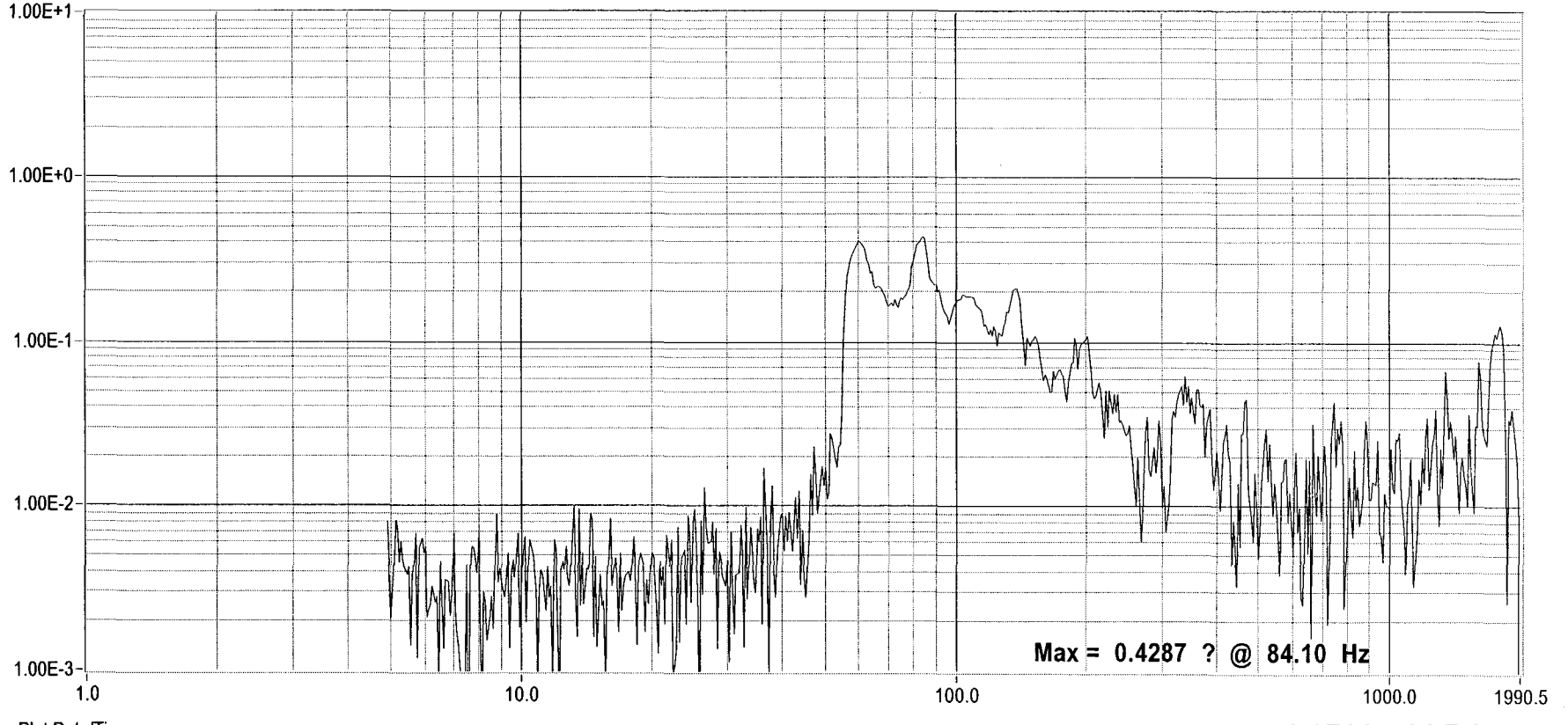
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A4RY: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:25 AM

Frequency HZ

A4RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 56 **Node Number:** 0056

Channel Description: BOX 4 CH 8 SN=AD53

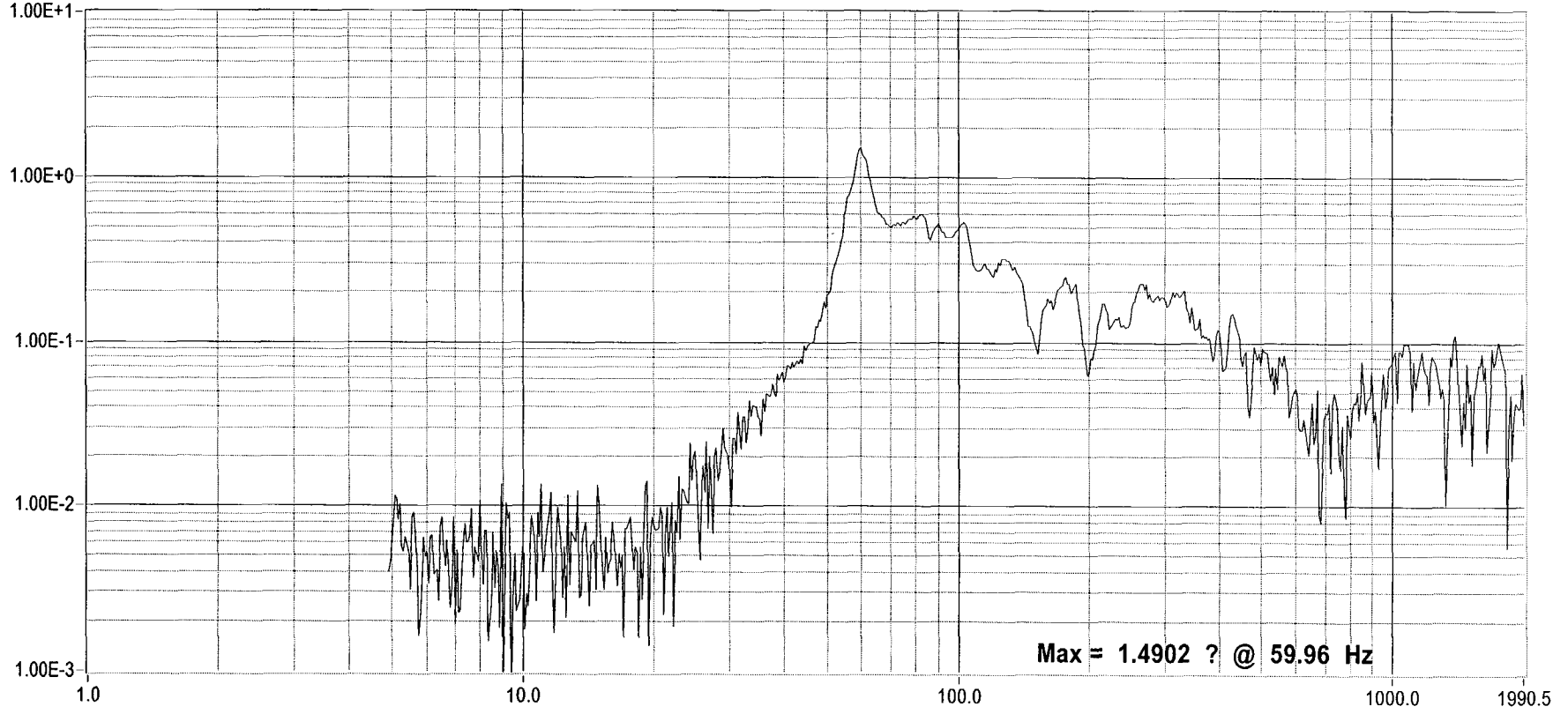
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

A4RZ: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:26 AM

Frequency HZ

A4RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 57 **Node Number:** 0057

Channel Description: BOX 4 CH 9 SN=BF27

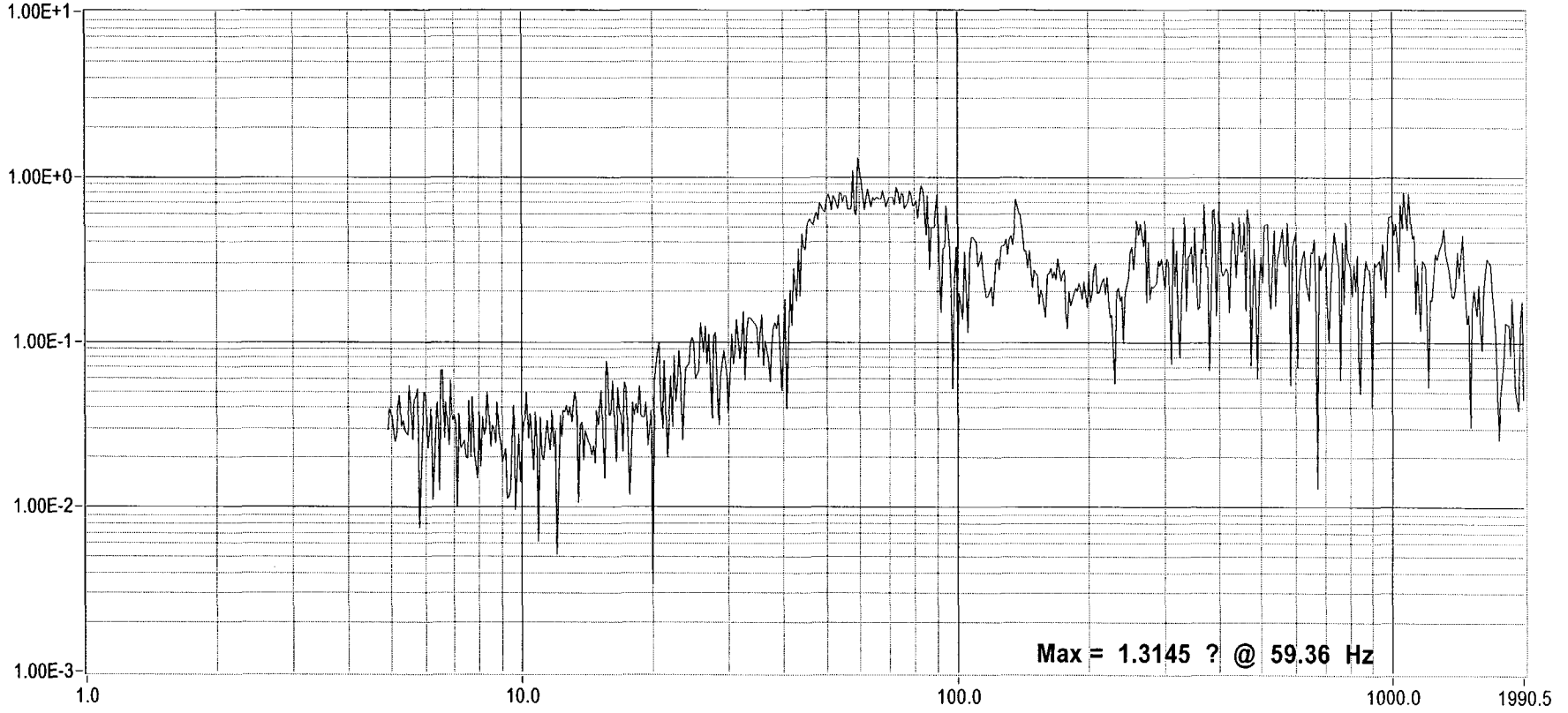
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

F1: FLY AWAY

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:26 AM

Frequency HZ

F1: FLY AWAY

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: **Node Number:**

Channel Description:

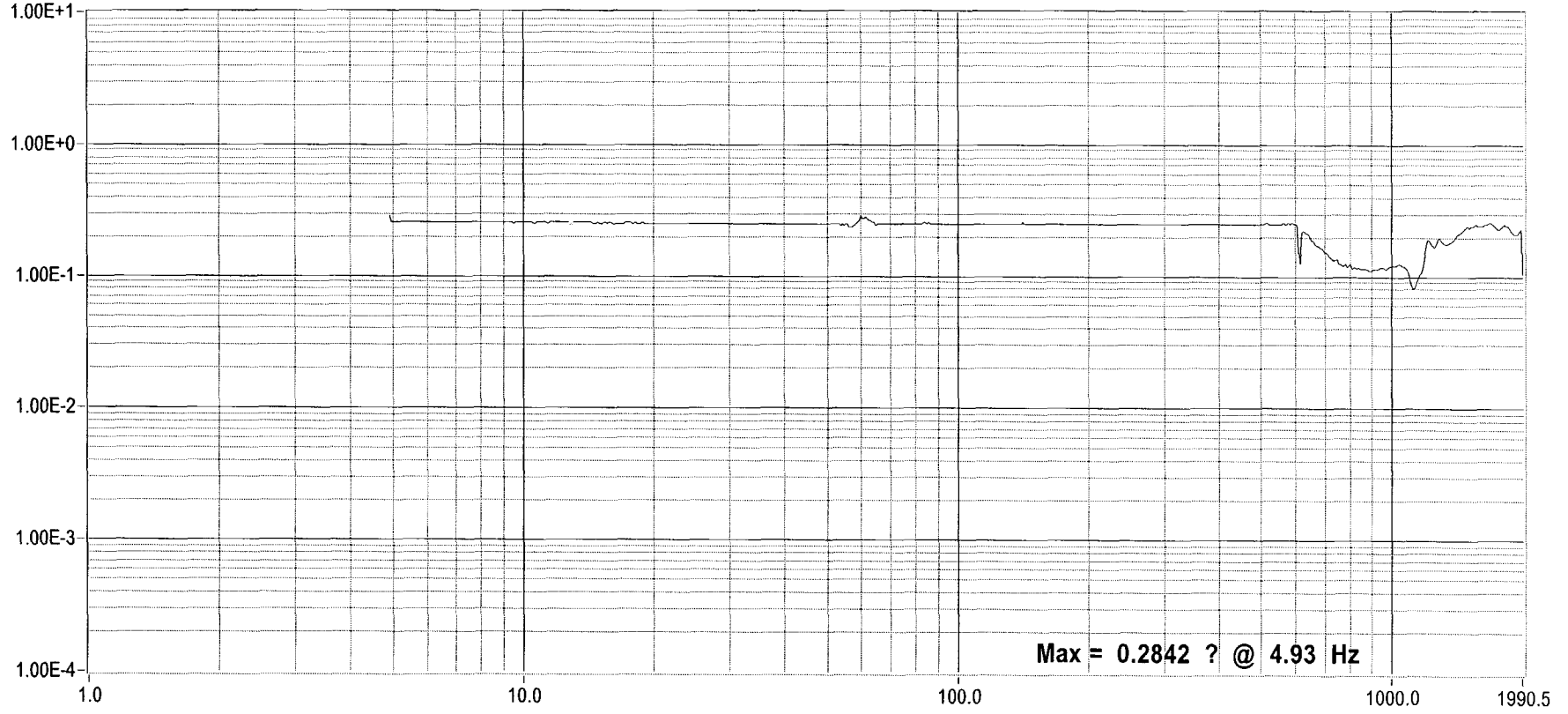
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 0:50:18

Average of Channels 1 & 4

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 1:28 AM

Frequency HZ

Average of Channels

ch_#	channel_label	Max_G_Resp.	Frequency
1	North_Control_X	0.0021	1835.1648
2	North_Control_Y	0.0003	1208.7913
3	North_Control_Z	0.0166	1934.0659
4	South_Control_X	0.0020	637.3626
5	South_Control_Y	0.0002	1695.9707
6	South_Control_Z	0.0004	1179.4872
7	A5 X	0.0082	1179.4872
8	A5 Y	0.0009	1238.0952
9	A5 Z	0.0010	1413.9194
10	A6 X	0.0188	1179.4872
11	A6 Y	0.0013	1260.0732
12	A6 Z	0.0158	1179.4872
17	A7 X	0.0407	1351.6483
18	A7 Y	0.0044	1274.7252
19	A7 Z	0.0022	1783.8828
20	A8 X	0.0312	1351.6483
21	A8 Y	0.0071	948.7180
22	A8 Z	0.0109	1864.4689
23	A9 X	0.0177	1304.0293
24	A9 Y	0.0067	1388.2784
25	A9 Z	0.0020	1179.4872
26	A10 X	0.0043	1351.6483
27	A10 Y	0.0087	58.6081
28	A10 Z	0.0104	1351.6483
31	DRIVE	0.0000	58.6081
32	COLA	0.0001	58.6081
33	A1X: +Y PANEL UPPER	0.1577	58.6081
34	A1Y: +Y PANEL UPPER	0.0032	1655.6776
35	A1Z: +Y PANEL UPPER	0.0014	58.6081
36	A1RX: +Y PANEL UPPER	0.1402	58.6081
37	A1RY: +Y PANEL UPPER	0.0025	139.1941
38	A1RZ: +Y PANEL UPPER	0.0006	95.2381
39	A2X: +Y PANEL LOWER TEU	0.0420	58.6081
40	A2Y: +Y PANEL LOWER TEU	0.0086	139.1941
41	A2Z: +Y PANEL LOWER TEU	0.0007	95.2381
42	A2RX: +Y PANEL LOWER TEU	0.0385	58.6081
43	A2RY: +Y PANEL LOWER TEU	0.0090	139.1941
44	A2RZ: +Y PANEL LOWER TEU	0.0007	95.2381
45	A3X: +X PANEL UPPER CCU	2.3967	58.6081
46	A3Y: +X PANEL UPPER CCU	0.0260	62.2711
47	A3Z: +X PANEL UPPER CCU	0.0043	62.2711
48	A3RX: +X PANEL UPPER CCU	0.1089	58.6081
49	A3RY: +X PANEL UPPER CCU	0.0213	62.2711
50	A3RZ: +X PANEL UPPER CCU	0.0092	62.2711
51	A4X: +Y PANEL MID-CMU	0.0788	58.6081
52	A4Y: +Y PANEL MID-CMU	0.0024	58.6081
53	A4Z: +Y PANEL MID-CMU	0.0138	62.2711
54	A4RX: +Y PANEL MID-CMU	0.0701	58.6081
55	A4RY: +Y PANEL MID-CMU	0.0019	58.6081
56	A4RZ: +Y PANEL MID-CMU	0.0175	62.2711
57	F1: FLY AWAY	0.0816	58.6081

ch_#	channel_label	Max_G_Resp.	Frequency
N/A	Average of Channels: 1 & 4	0.0010	1835.1648

LOCKHEED MARTIN MISSILES & SPACE

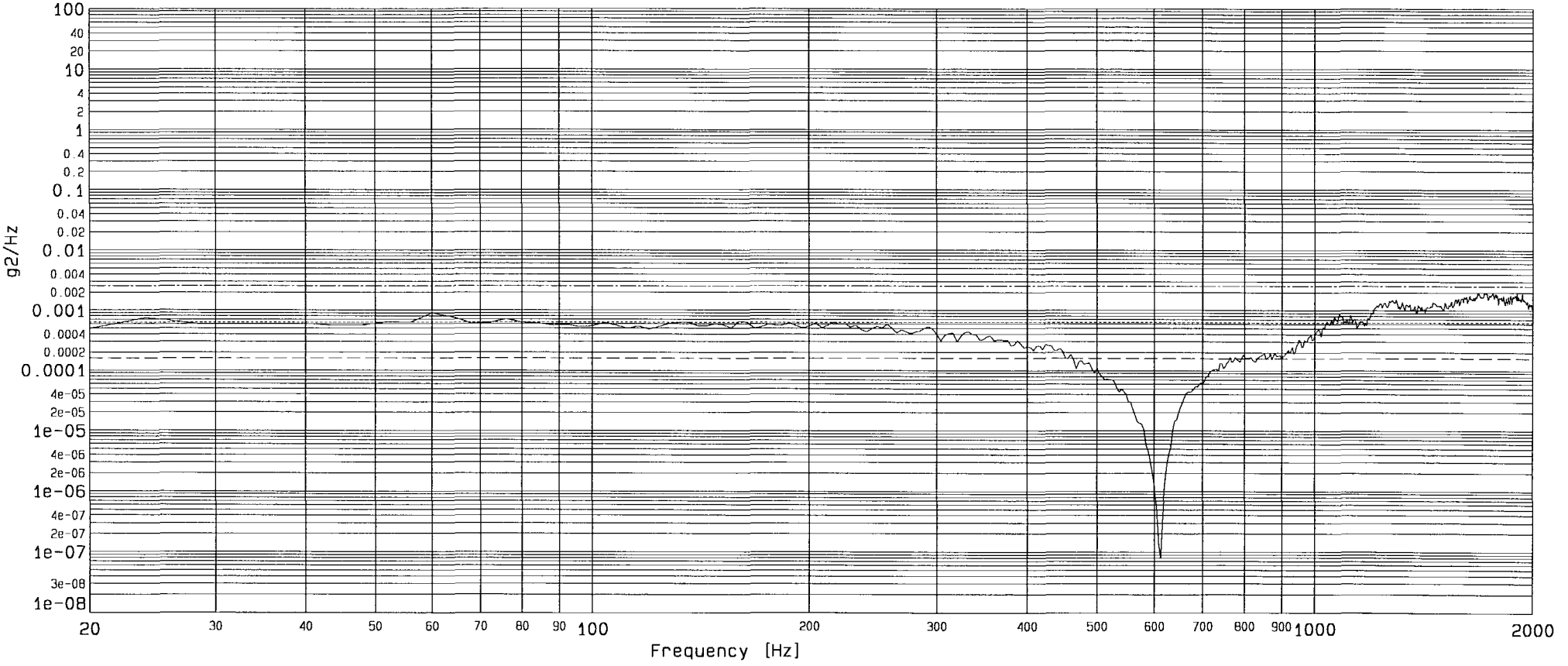
Project : hirdls
Test : X_HIRDLS_RAN
Run : 1 062402

Date : 24-06-02
Time : 02:45:50
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.23 g
Number of averages : 70

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -12dB

run 062402

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

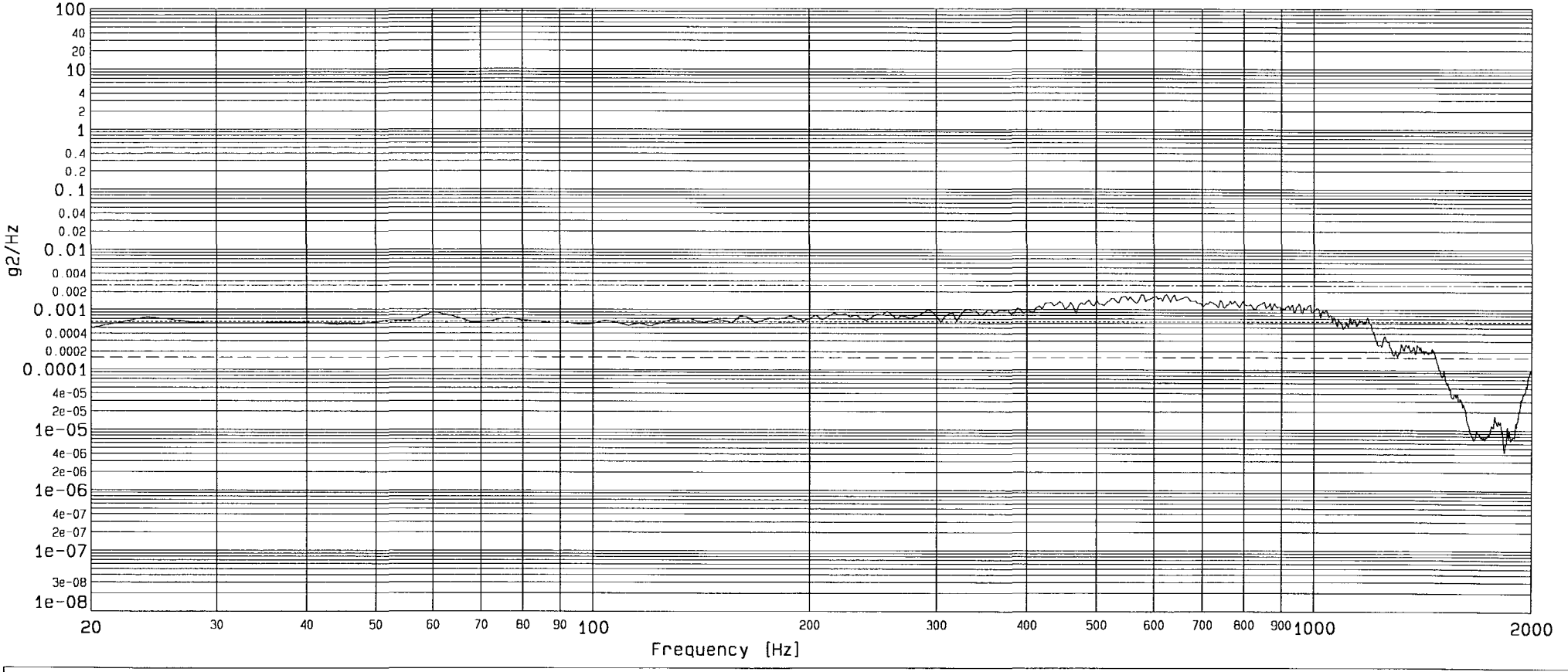
Project : hirdls
Test : X_HIRDLS_RAN
Run : 1 062402

Date : 24-06-02
Time : 02: 45: 50
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00: 00: 30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.13 g
Number of averages : 70

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -12dB

run 062402

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

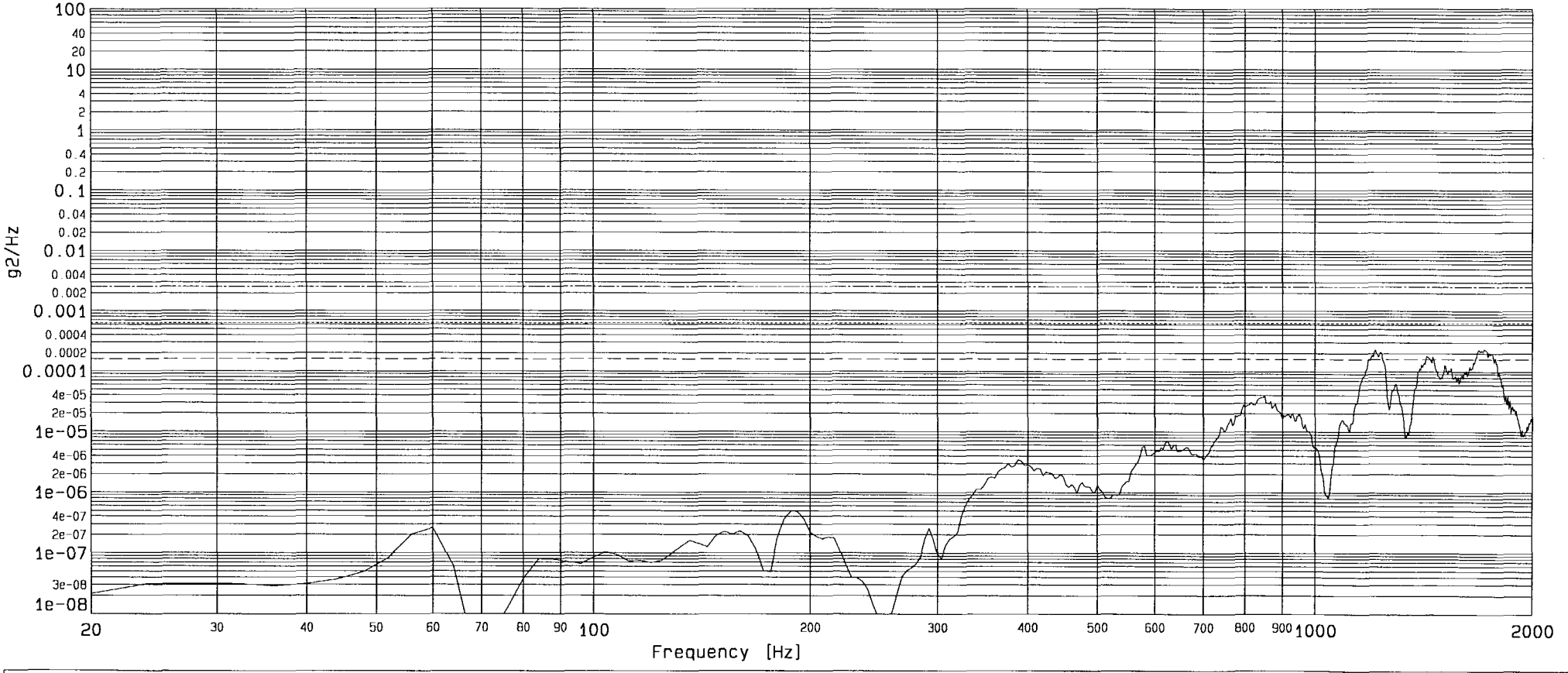
Project : hirdls
Test : X_HIRDLS_RAN
Run : 1 062402

Date : 24-06-02
Time : 02:45:50
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 297.68e-03 g
Number of averages : 70

Trace identification :
N_CONTROL_Y
Reference
Upper Ab
Lower Ab



HIRDLS X AXIS -12dB

run 062402

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

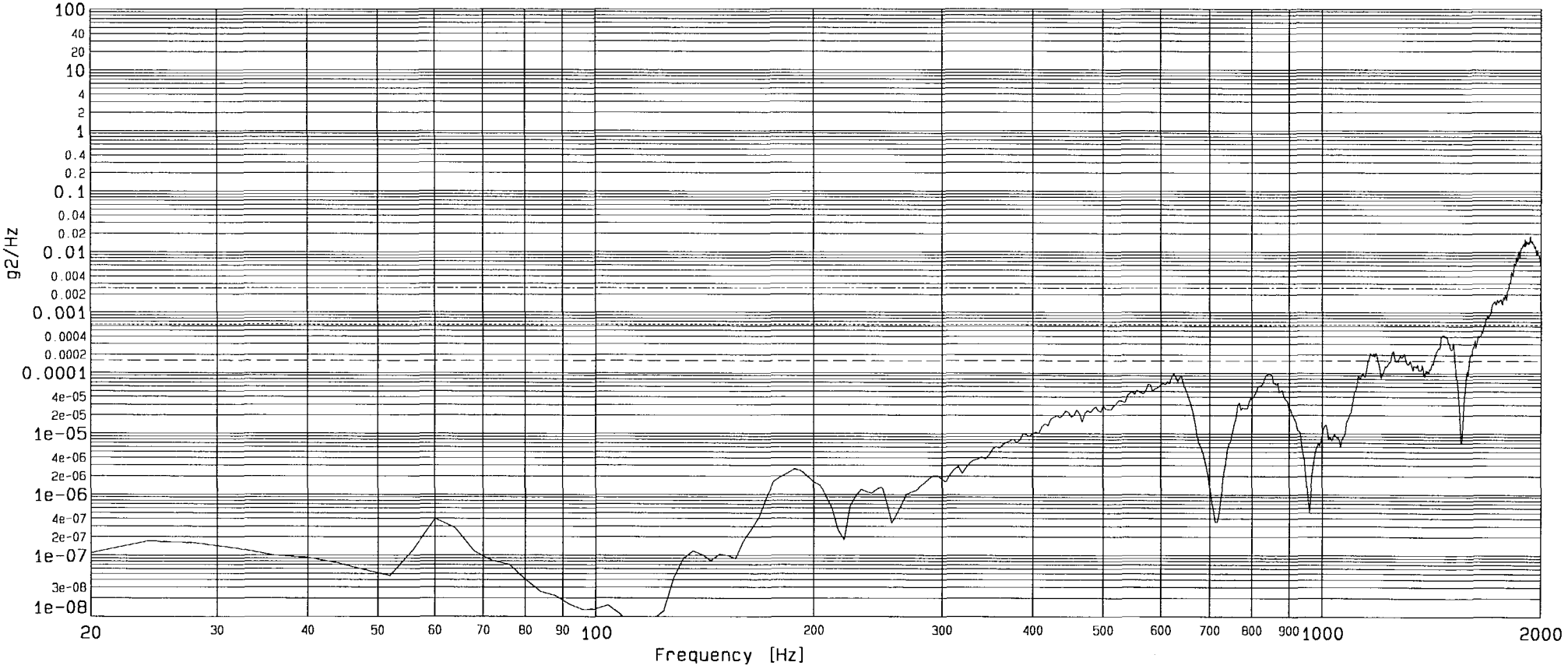
Project : hirdls
Test : X_HIRDLS_RAN
Run : 1 062402

Date : 24-06-02
Time : 02: 45: 50
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00: 00: 30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.52 g
Number of averages : 70

Trace identification :
N_CONTROL_Z
Reference
Upper Ab
Lower Ab



HIRDLS X AXIS -12dB

run 062402

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

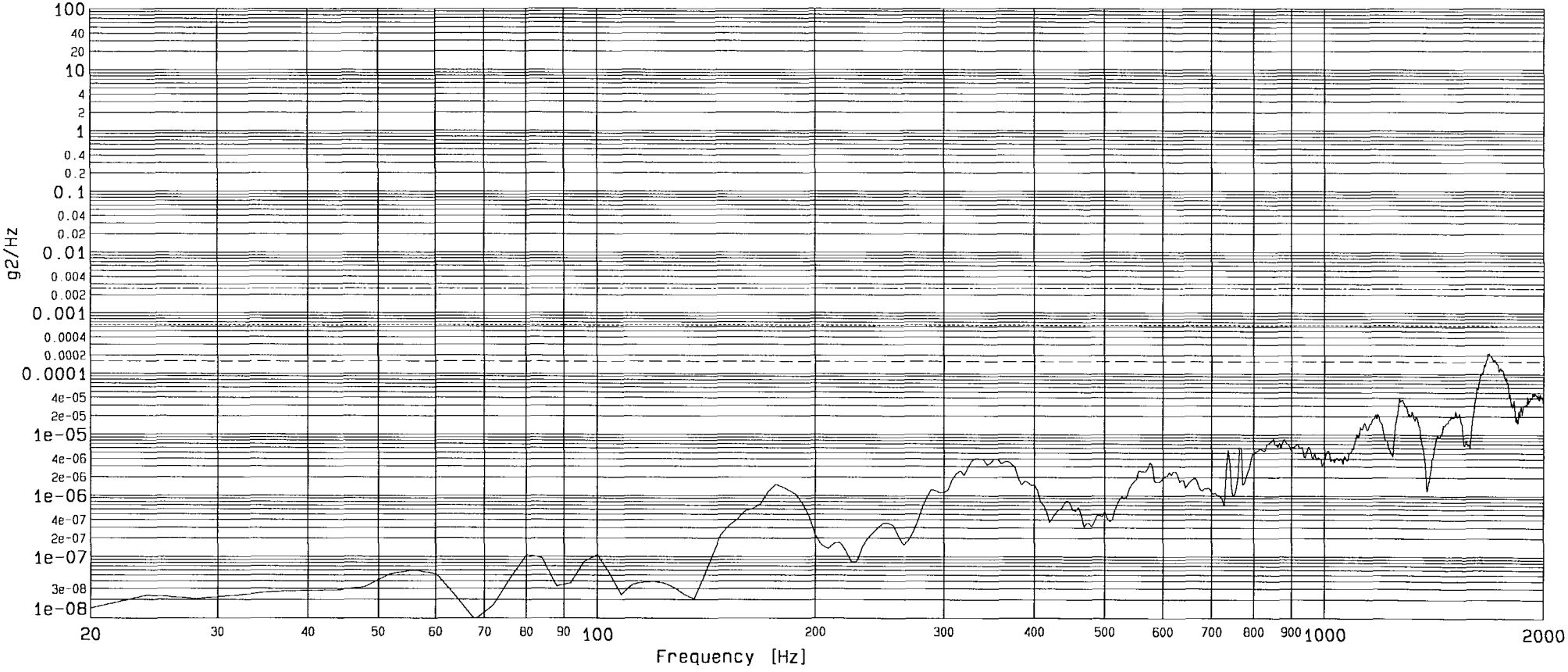
Project : hirdls
Test : X_HIRDLS_RAN
Run : 1 062402

Date : 24-06-02
Time : 02:45:50
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 199.78e-03 g
Number of averages : 70

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -12dB

run 062402

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

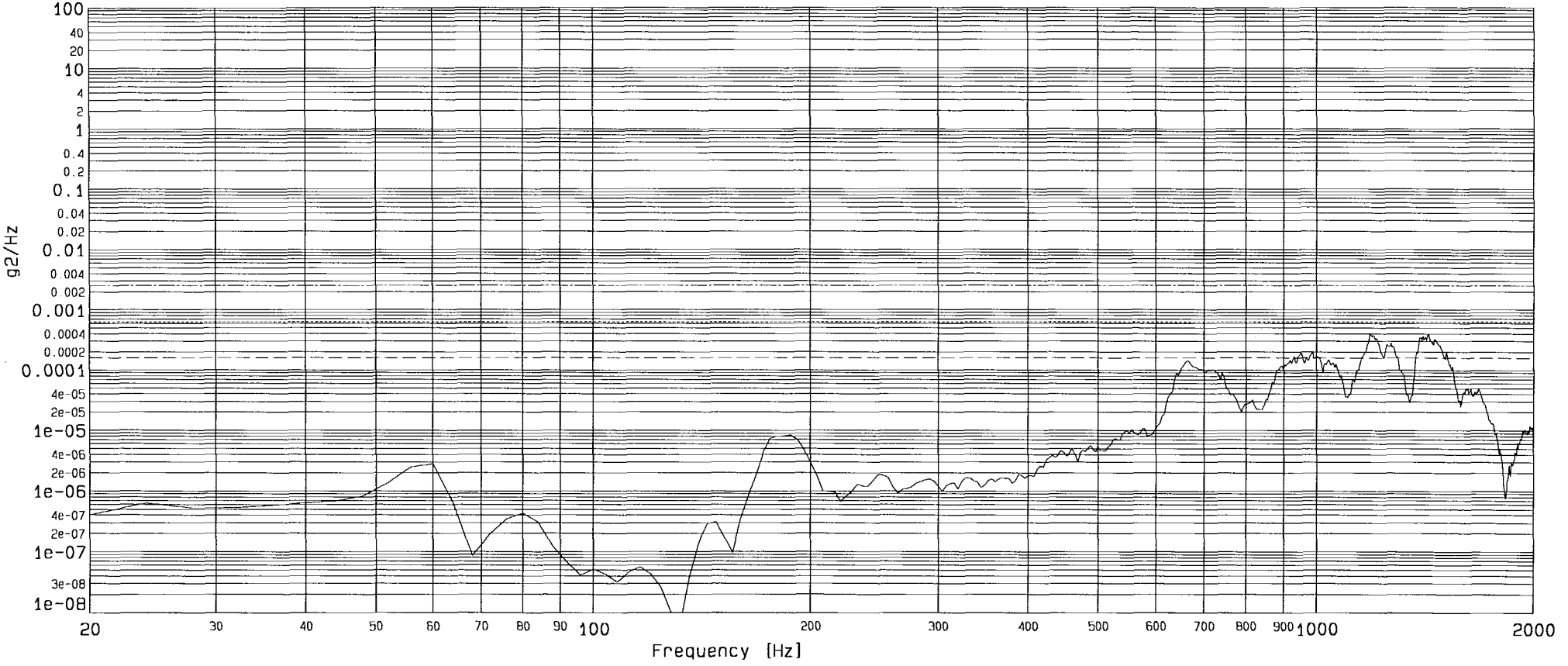
Project : hirdls
Test : X_HIRDLS_RAN
Run : 1 062402

Date : 24-06-02
Time : 02:45:50
Mode : Random Vibration Control

Test level : -12.00dB
Elapsed time : 00:00:30.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 381.28e-03 g
Number of averages : 70

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -12dB

run 062402

date 06-24-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

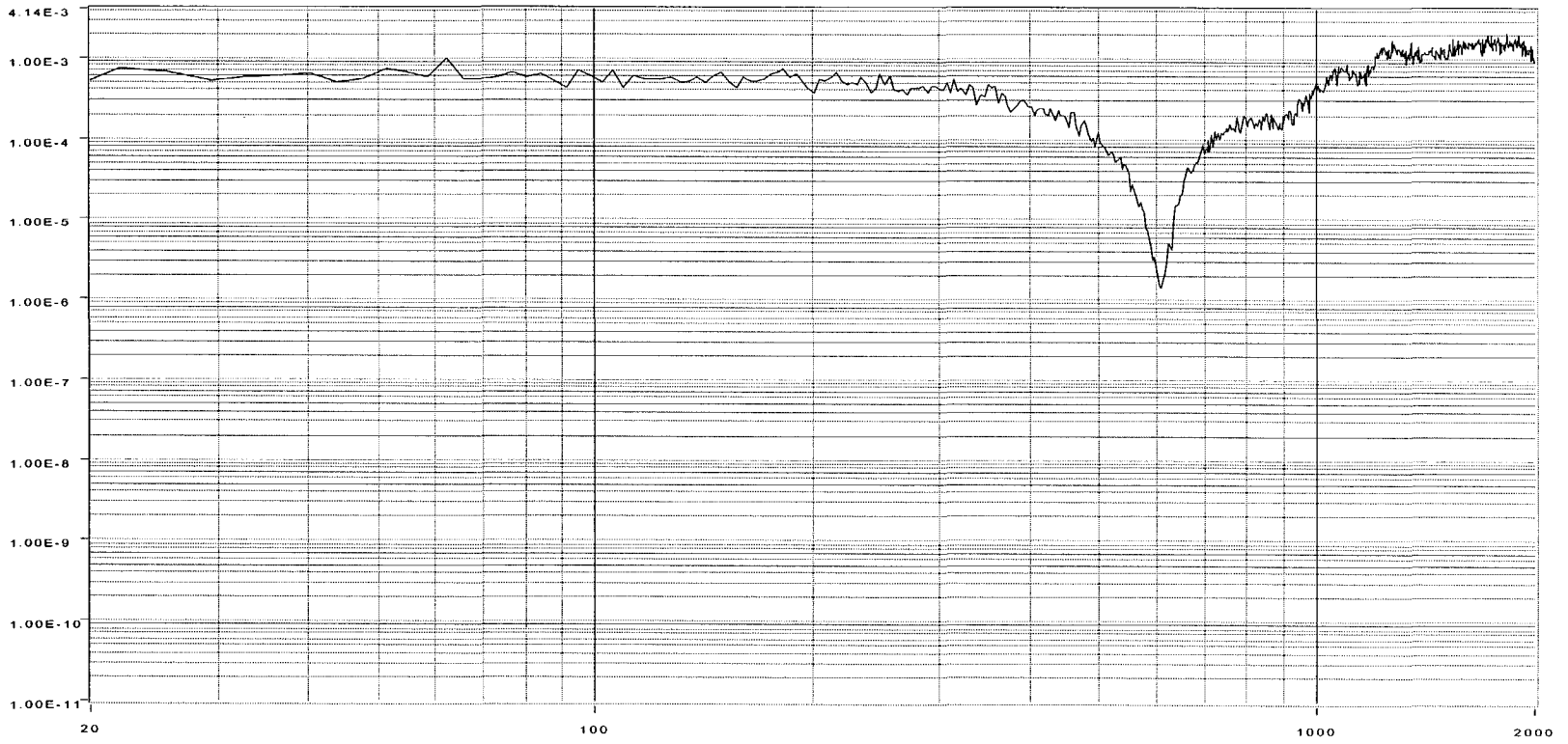
Channel #: 1 **Node Number:** 0001

Channel Label: North_Control_X

Channel Description:

Start Time: 26.00

RMS= 1.210E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_X

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

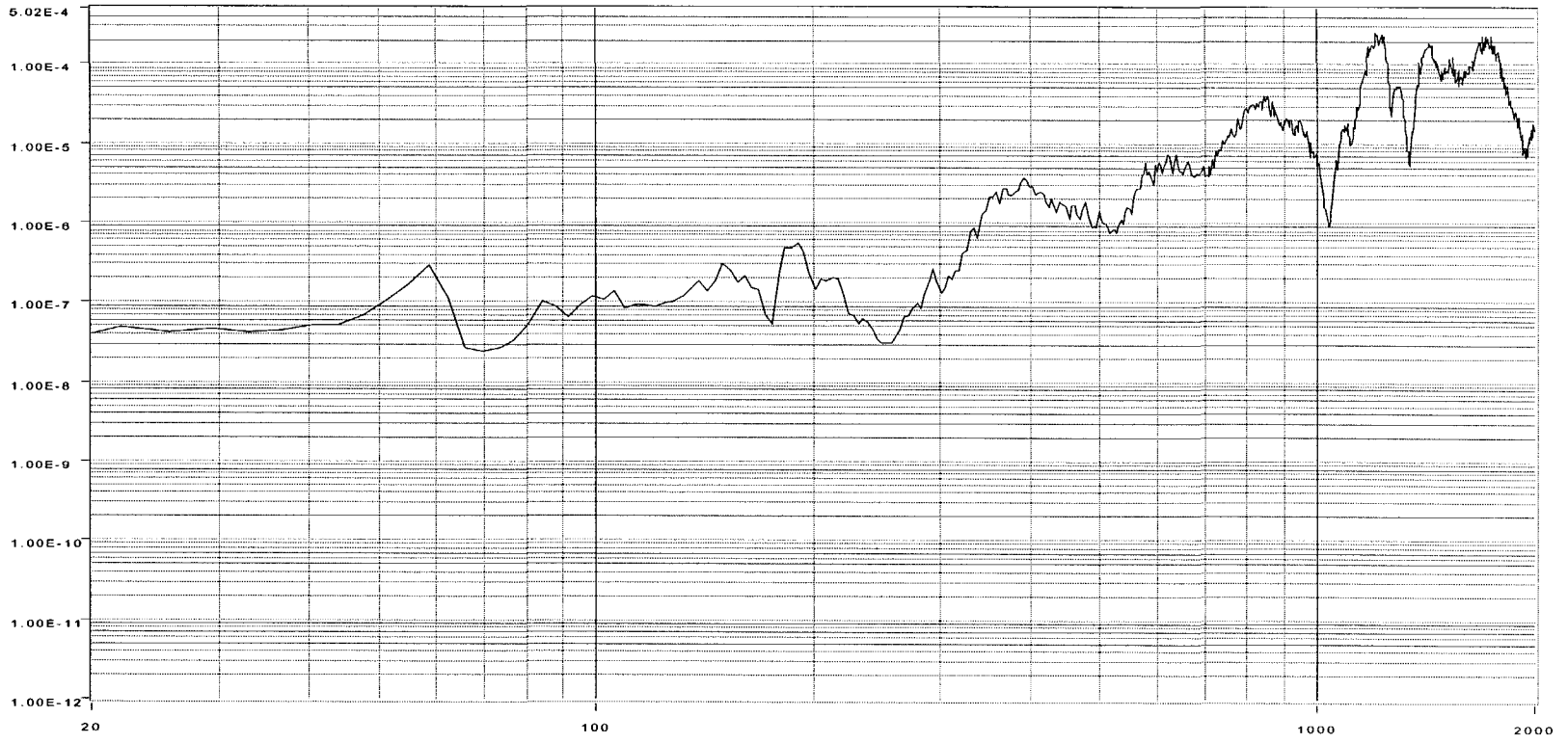
Channel #: 2 **Node Number:** 0002

Channel Label: North_Control_Y

Channel Description:

Start Time: 26.00

RMS= 2.878E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Y

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

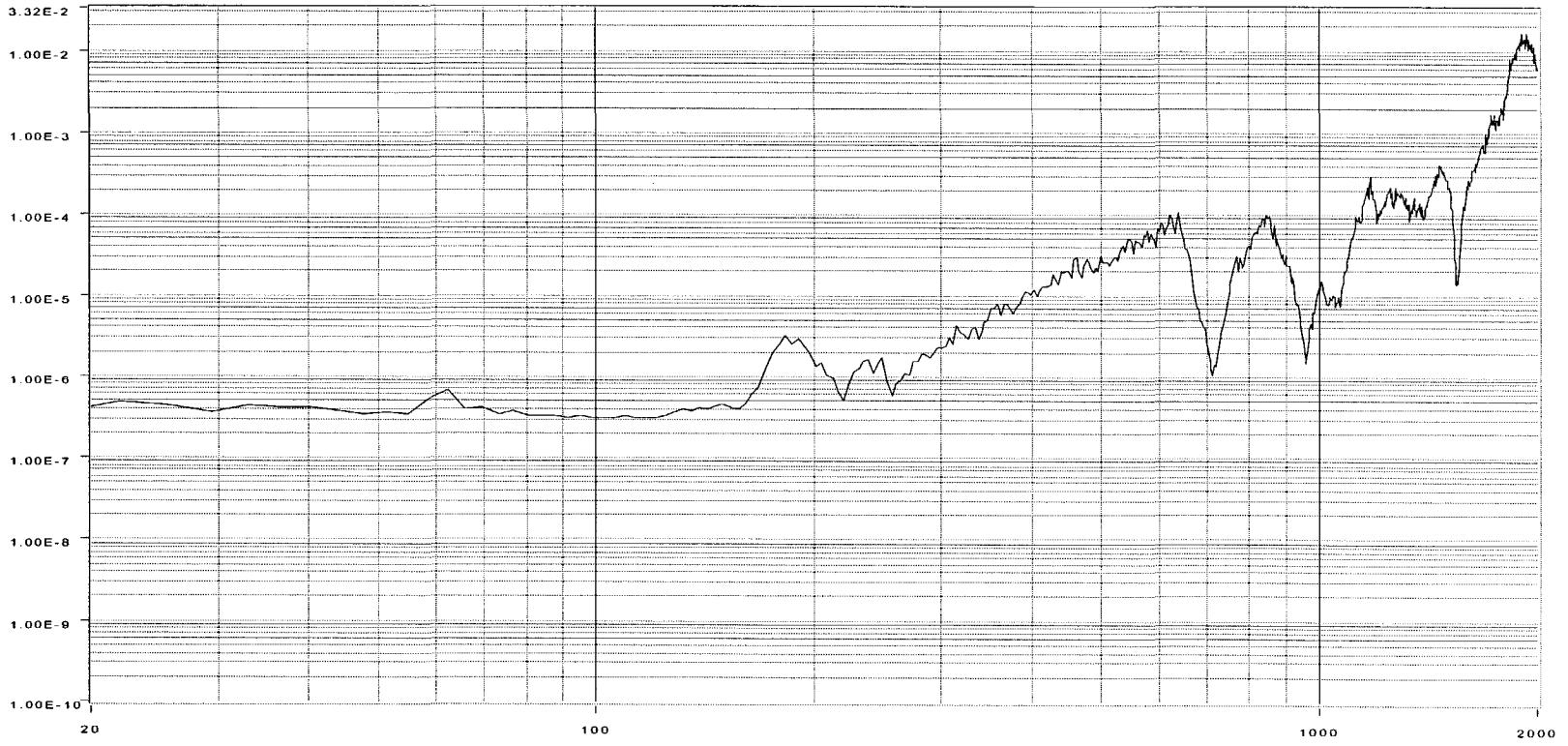
Channel #: 3 Node Number: 0003

Channel Label: North_Control_Z

Channel Description:

Start Time: 26.00

RMS= 1.477E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Z

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

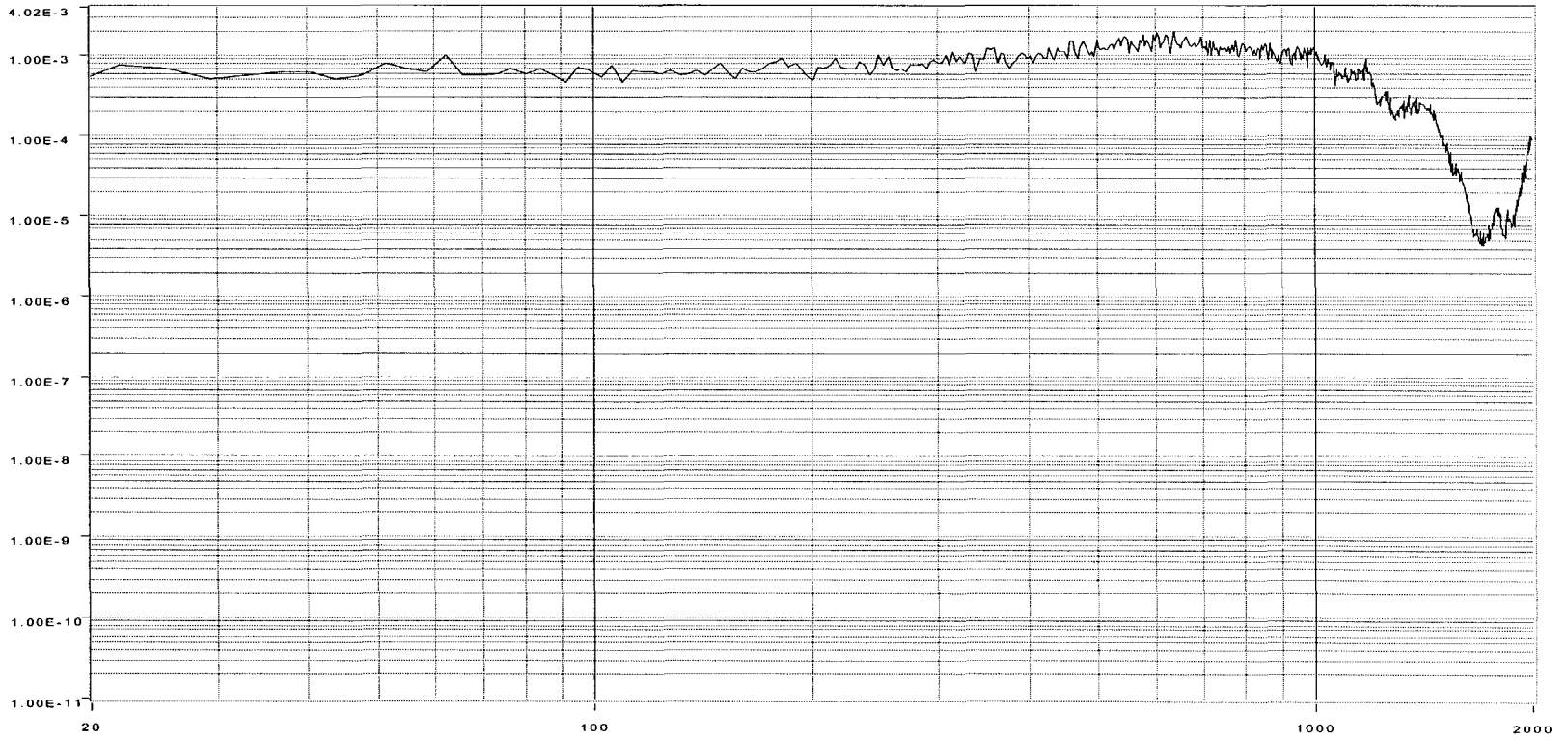
Channel #: 4 Node Number: 0004

Channel Label: South_Control_X

Channel Description: I

Start Time: 26.00

RMS= 1.116E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_X

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

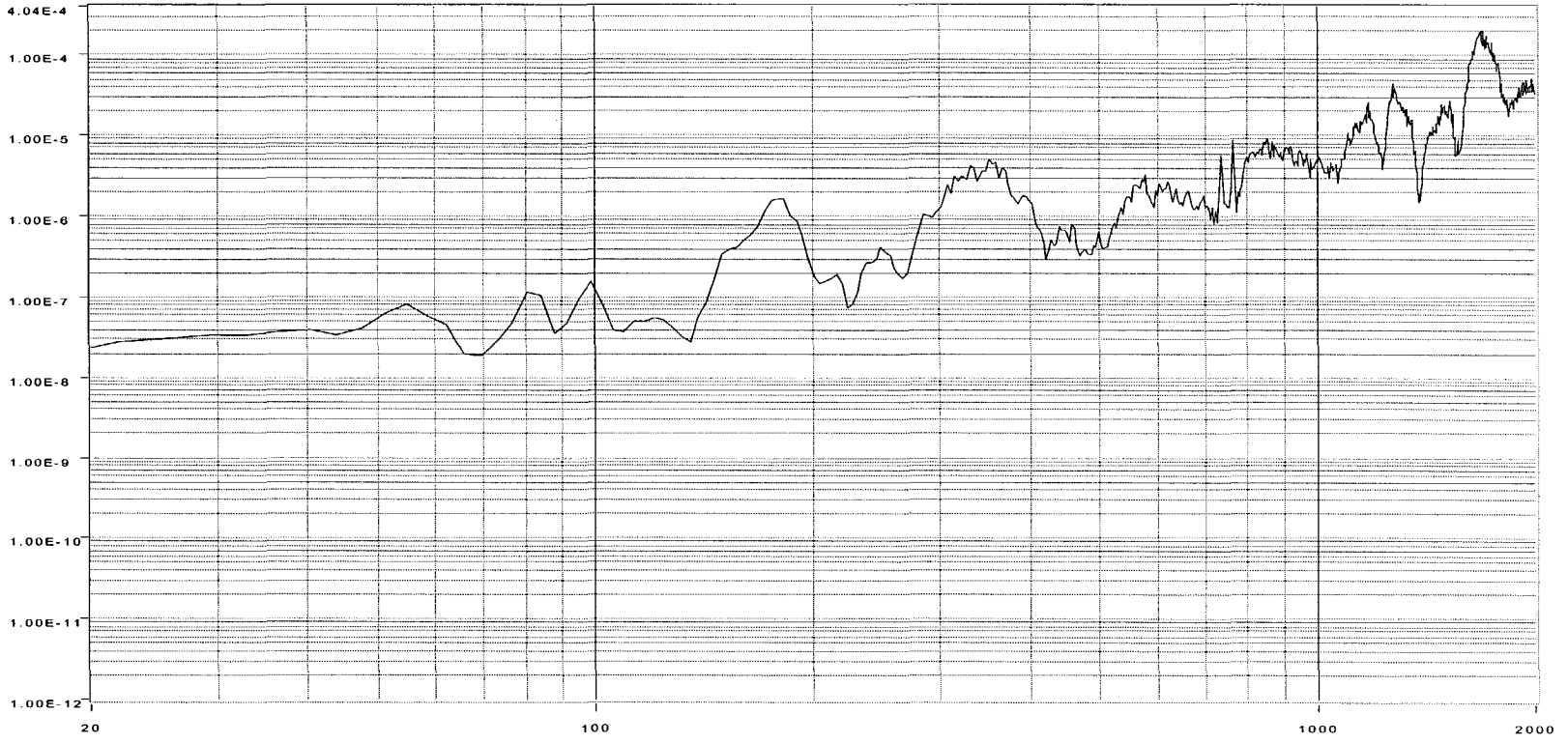
Channel #: 5 Node Number: 0005

Channel Label: South_Control_Y

Channel Description:

Start Time: 26.00

RMS= 1.936E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Y

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

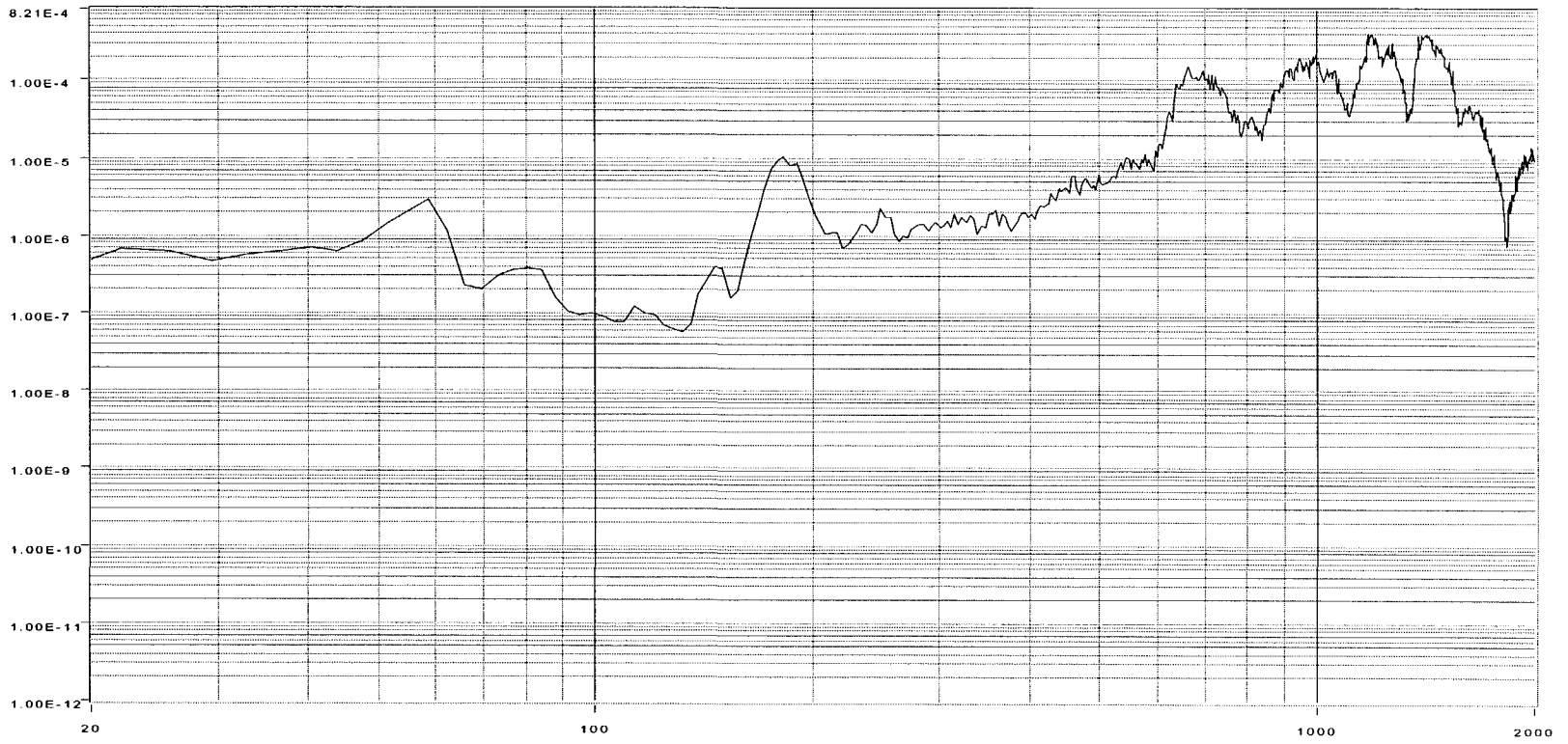
Channel #: 6 Node Number: 0006

Channel Label: South_Control_Z

Channel Description:

Start Time: 26.00

RMS= 3.791E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Z

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

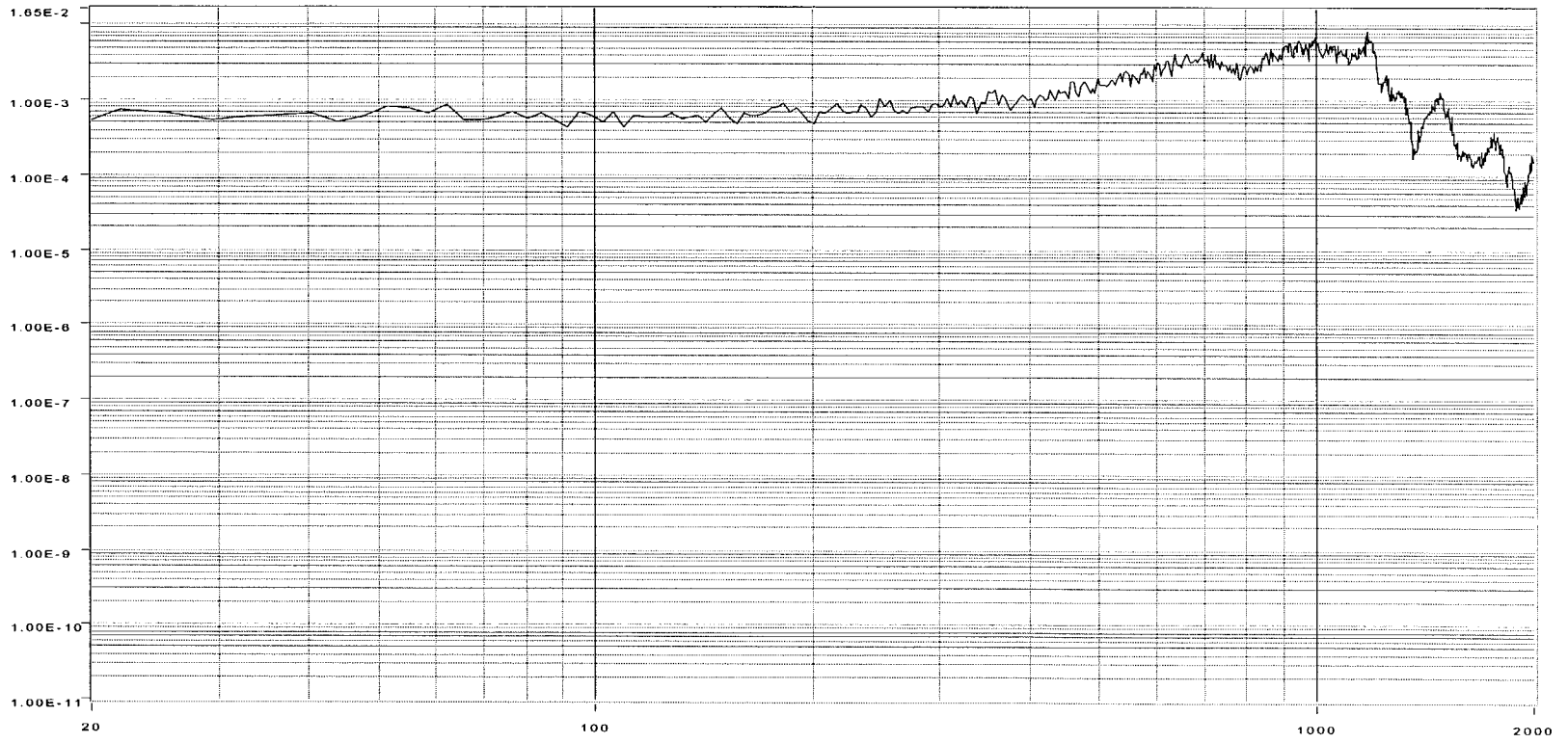
Channel #: 7 Node Number: 0007

Channel Label: A5 X

Channel Description:

Start Time: 26.00

RMS= 1.869E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

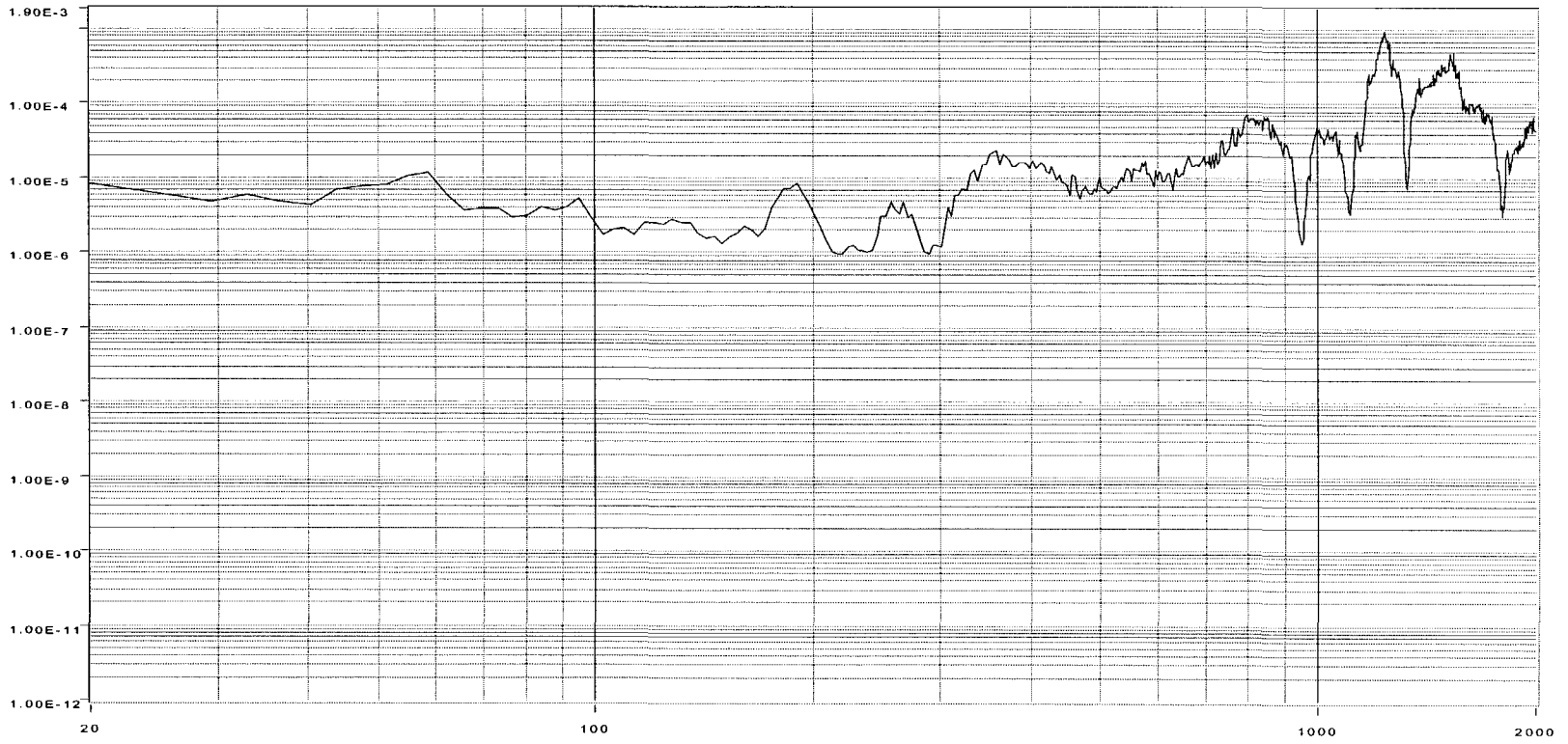
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 26.00

RMS= 3.902E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

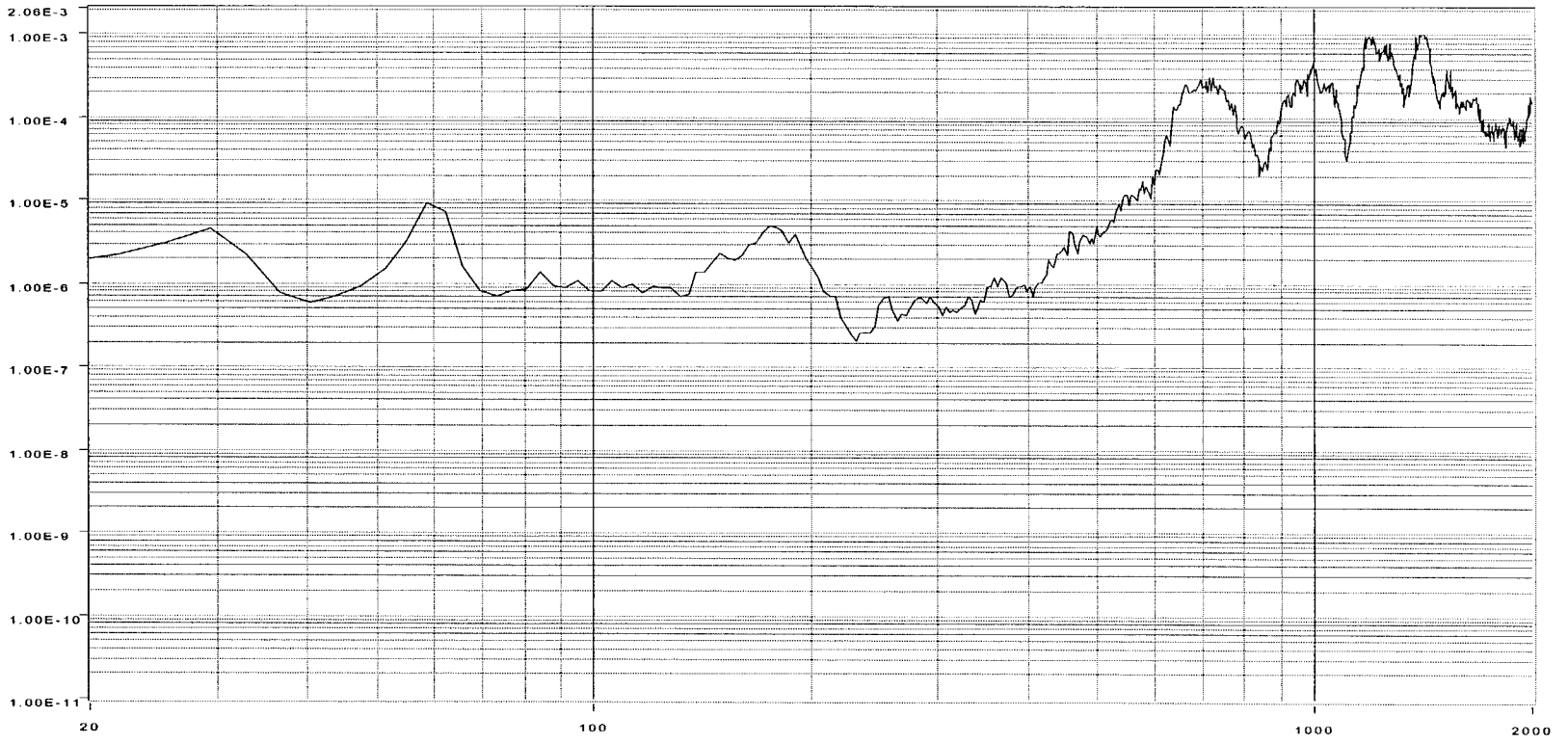
Channel #: 9 Node Number: 0009

Channel Label: A5 Z

Channel Description:

Start Time: 26.00

RMS= 5.787E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Z

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

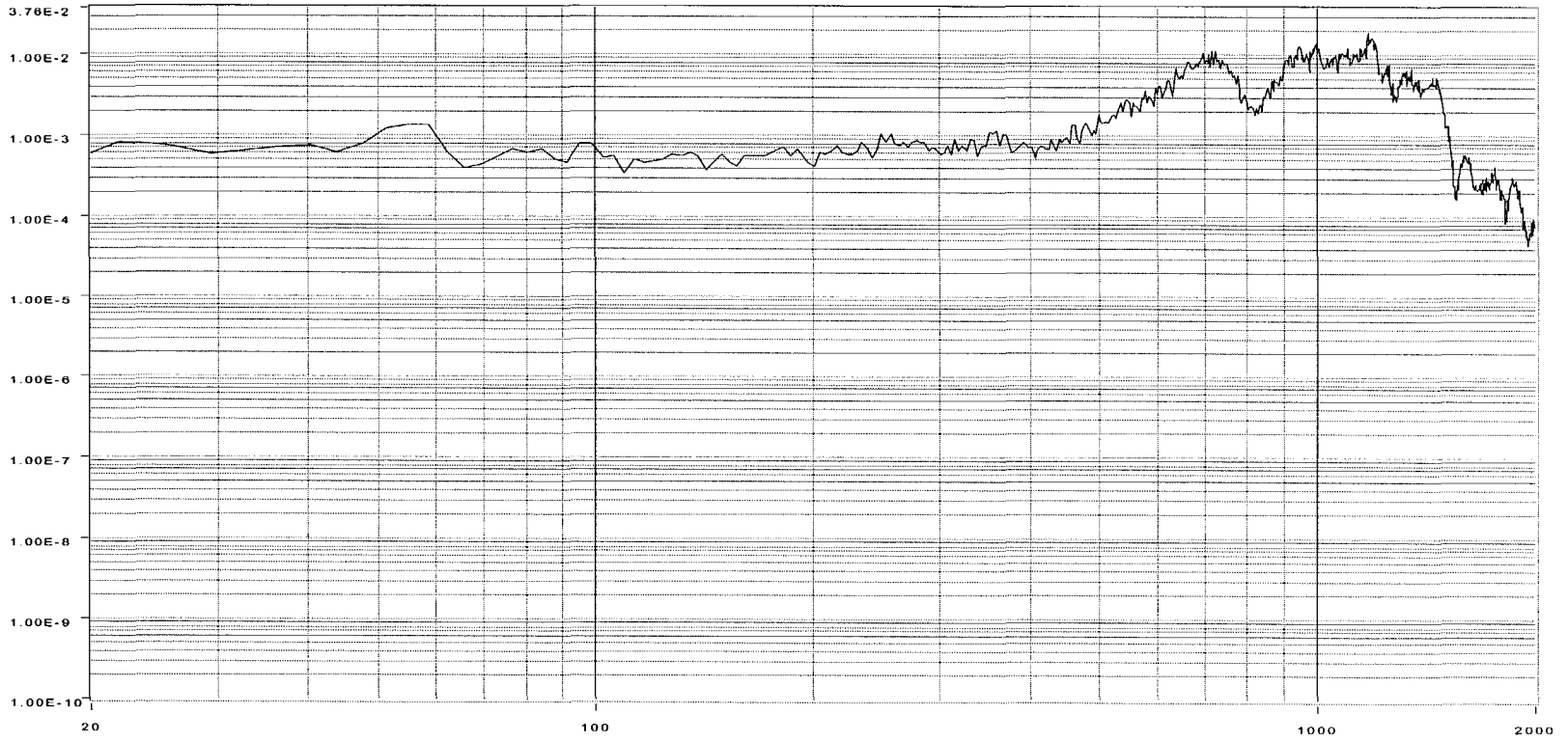
Channel #: 10 Node Number: 0010

Channel Label: A6 X

Channel Description:

Start Time: 26.00

RMS= 2.605E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

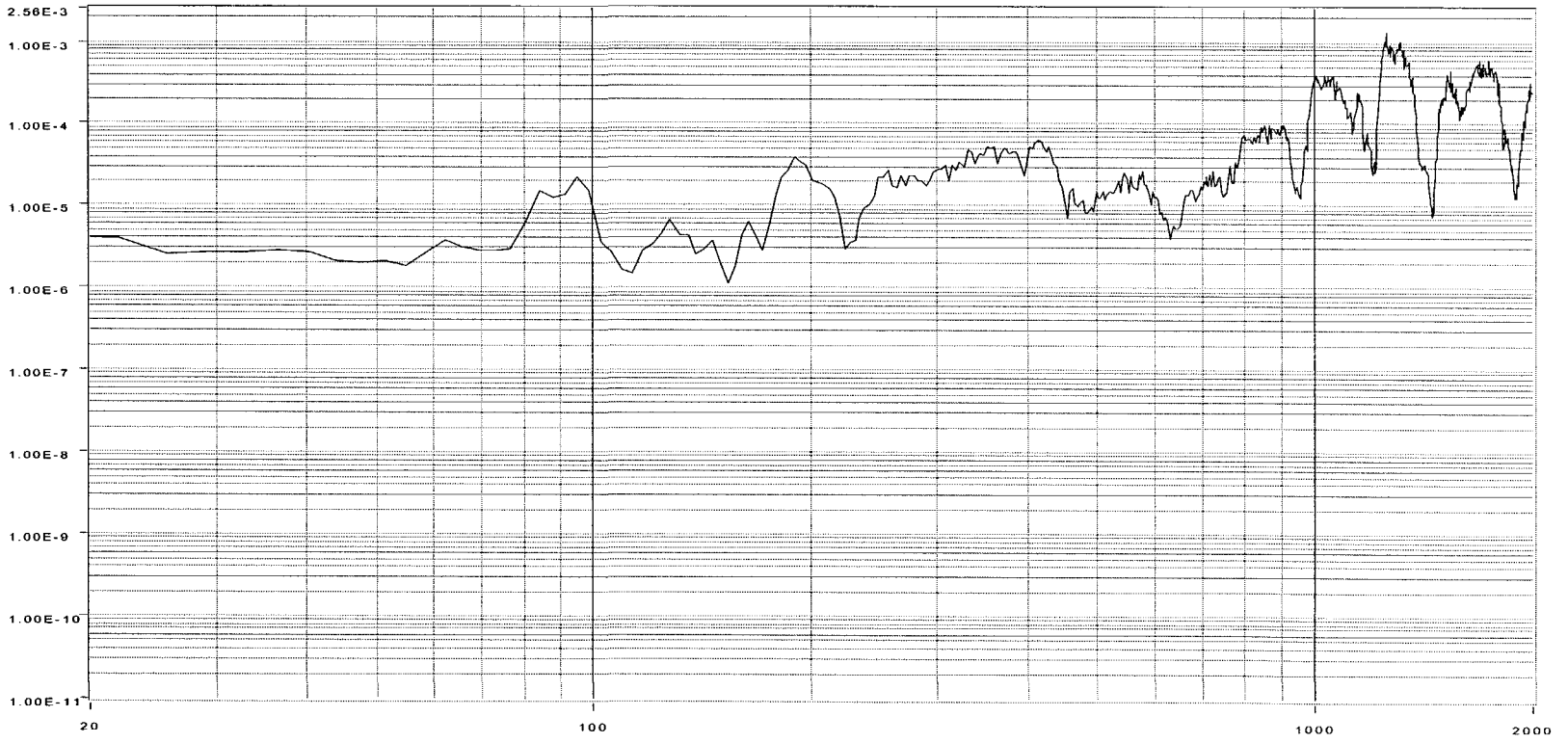
Channel #: 11 Node Number: 0011

Channel Label: A6 Y

Channel Description:

Start Time: 26.00

RMS= 5.456E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

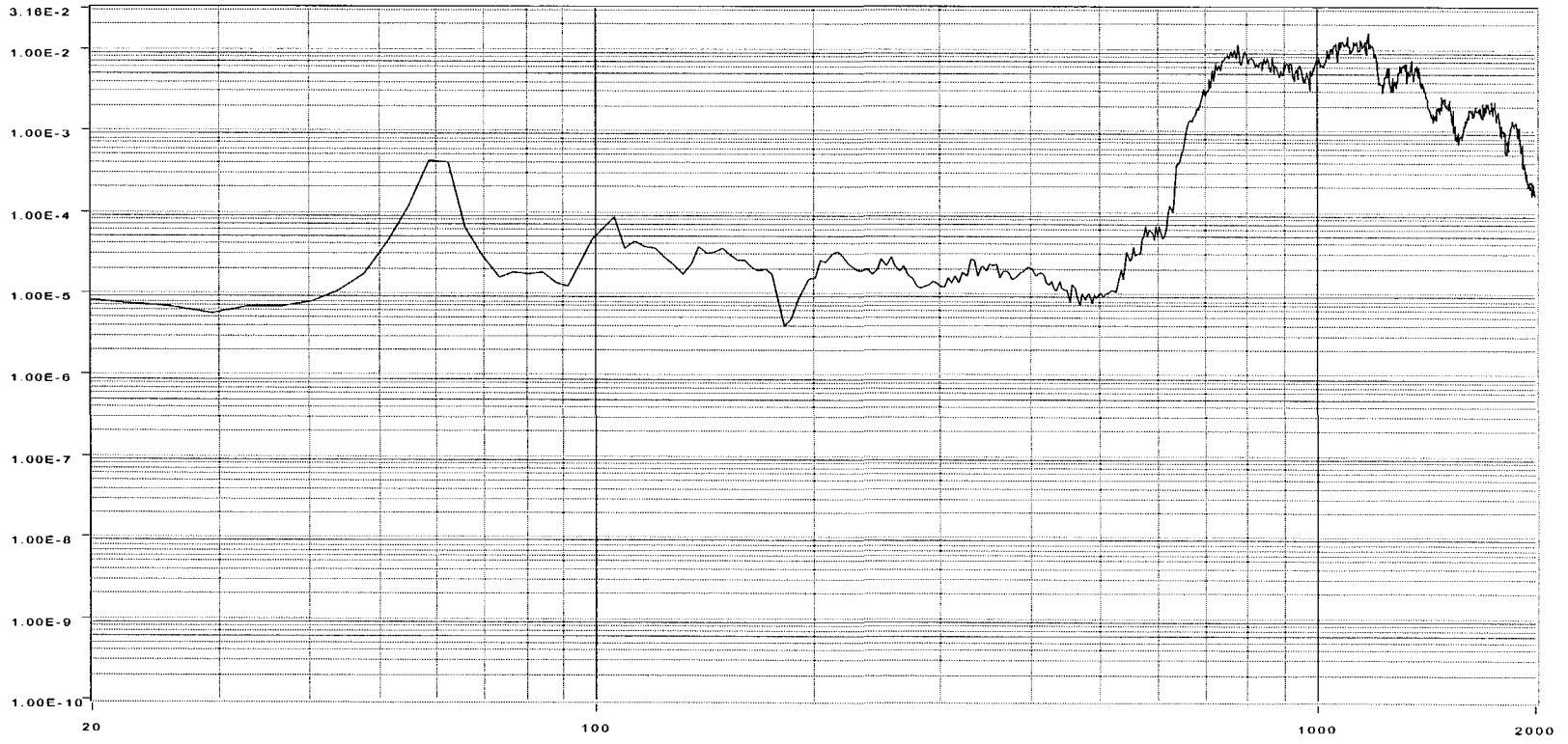
Channel #: 12 Node Number: 0012

Channel Label: A6 Z

Channel Description:

Start Time: 26.00

RMS= 2.421E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

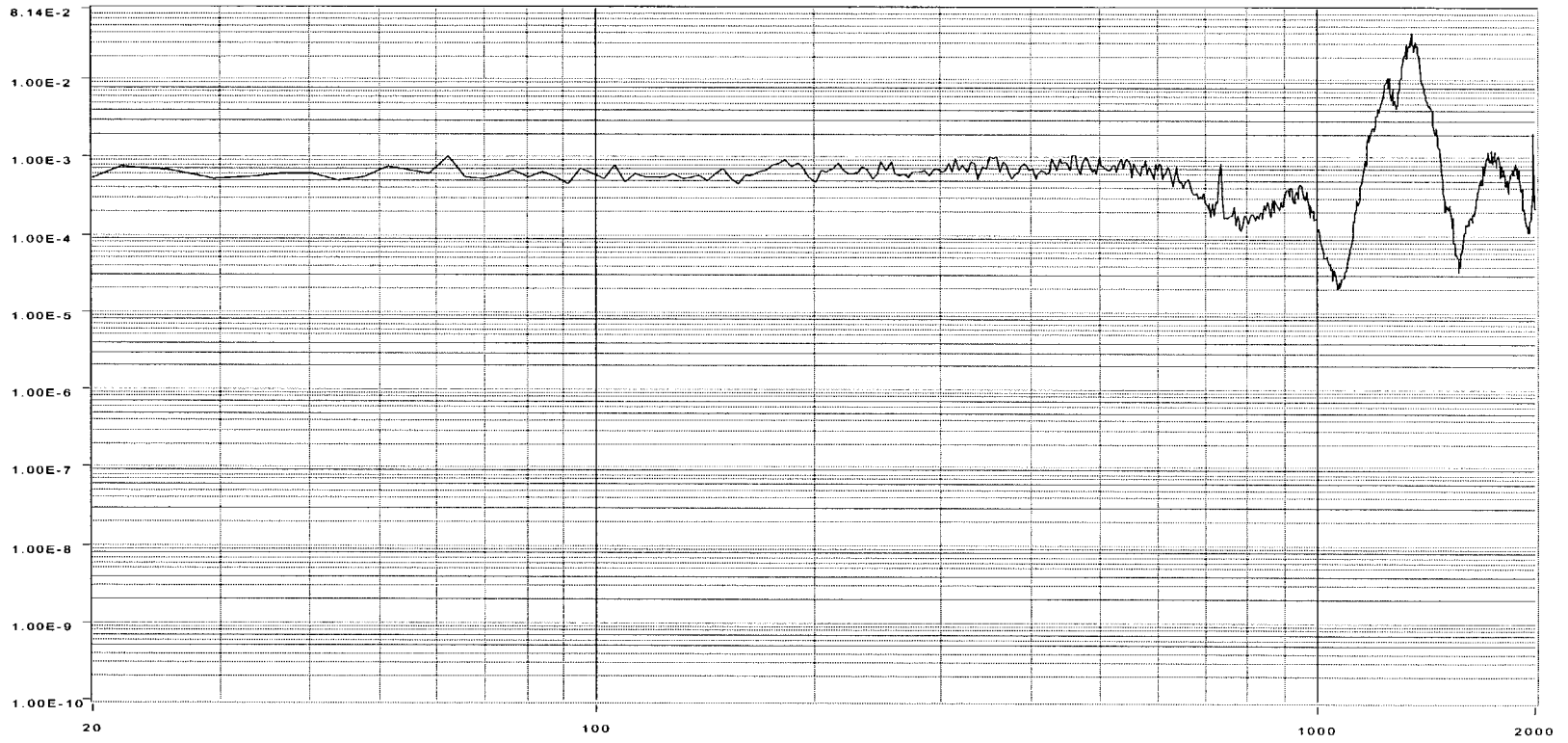
Channel #: 17 Node Number: 0017

Channel Label: A7 X

Channel Description:

Start Time: 26.00

RMS= 1.989E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/24/02 2:55 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

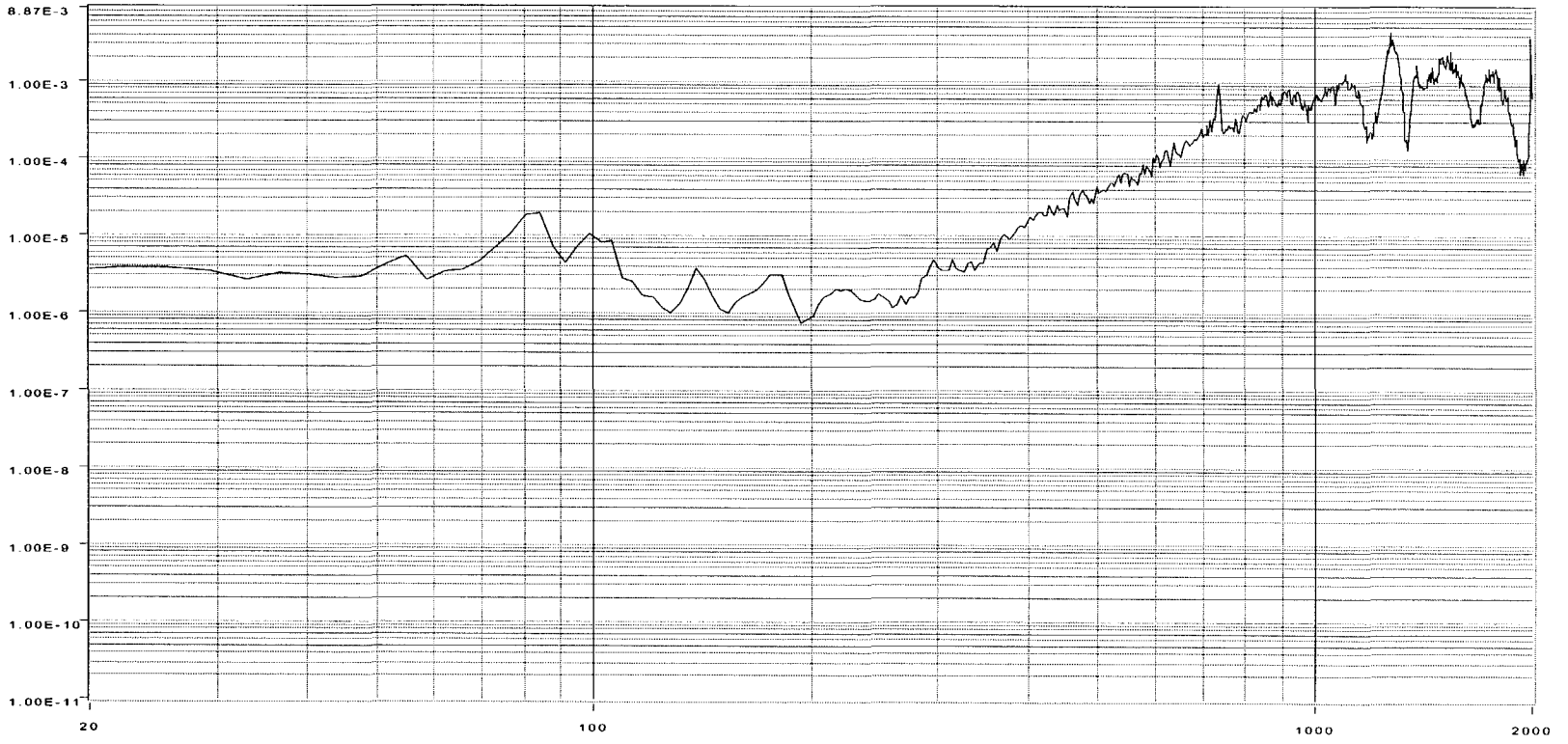
Channel #: 18 Node Number: 0018

Channel Label: A7 Y

Channel Description:

Start Time: 26.00

RMS= 1.027E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

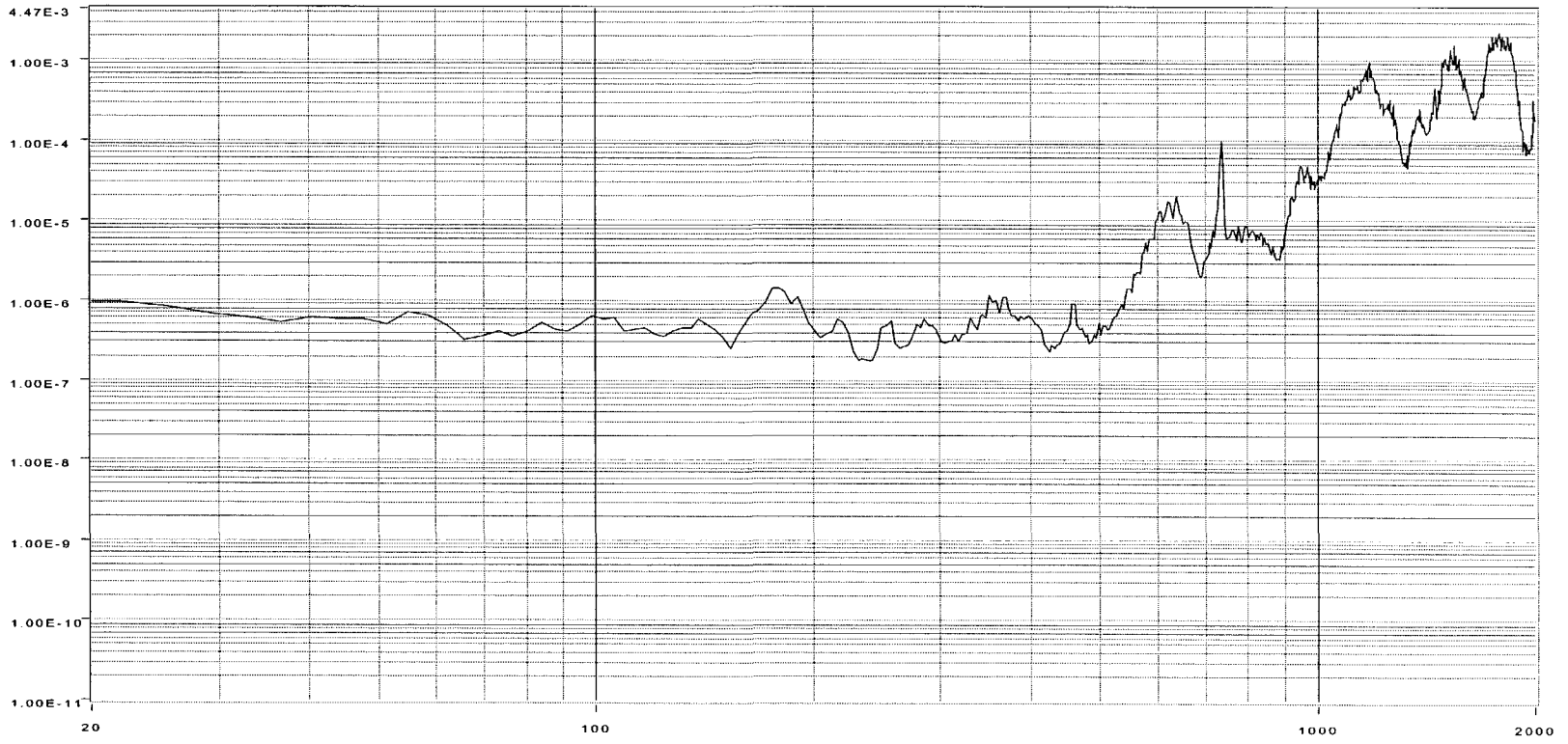
Channel #: 19 Node Number: 0019

Channel Label: A7 Z

Channel Description:

Start Time: 26.00

RMS= 7.410E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

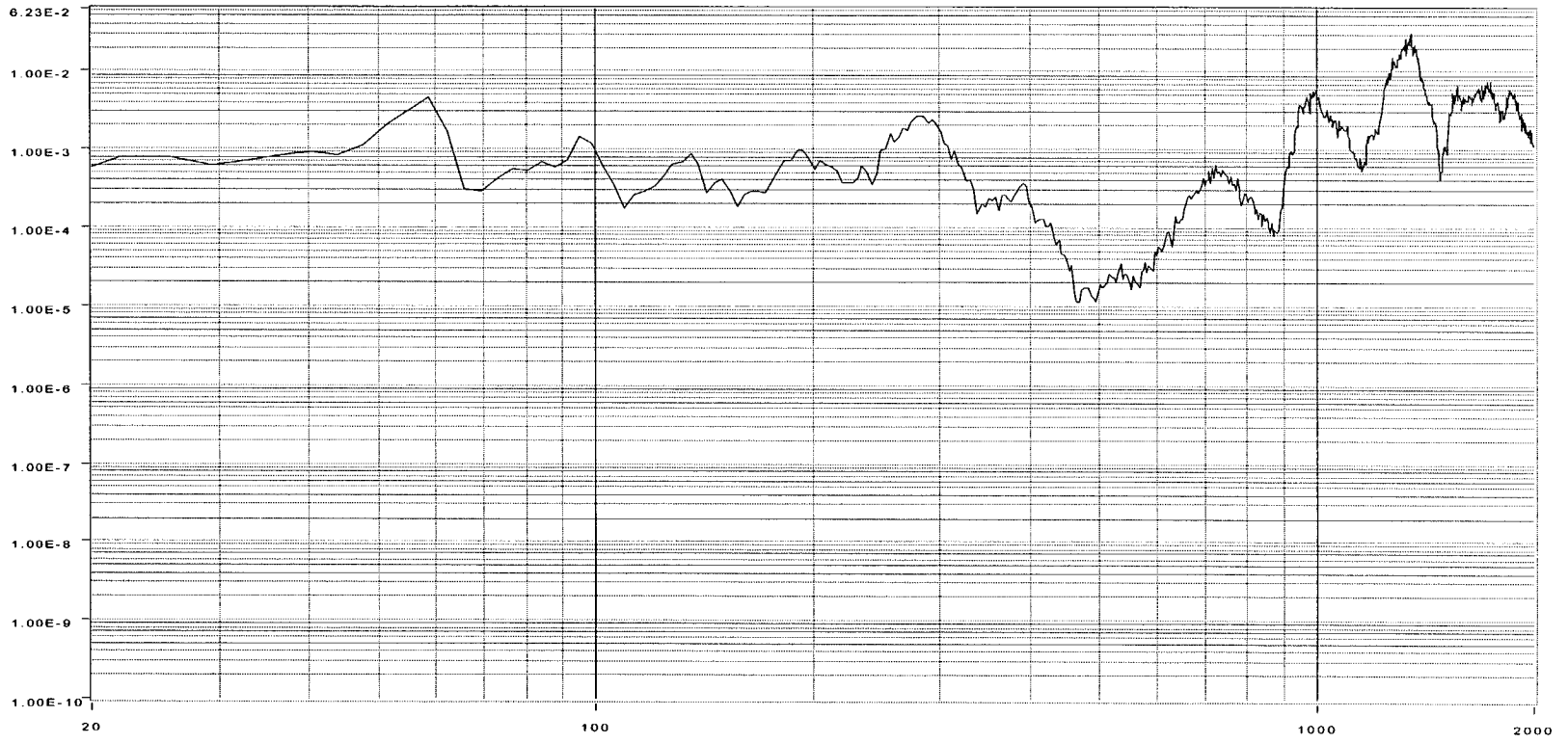
Channel #: 20 Node Number: 0020

Channel Label: A8 X

Channel Description:

Start Time: 26.00

RMS= 2.408E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

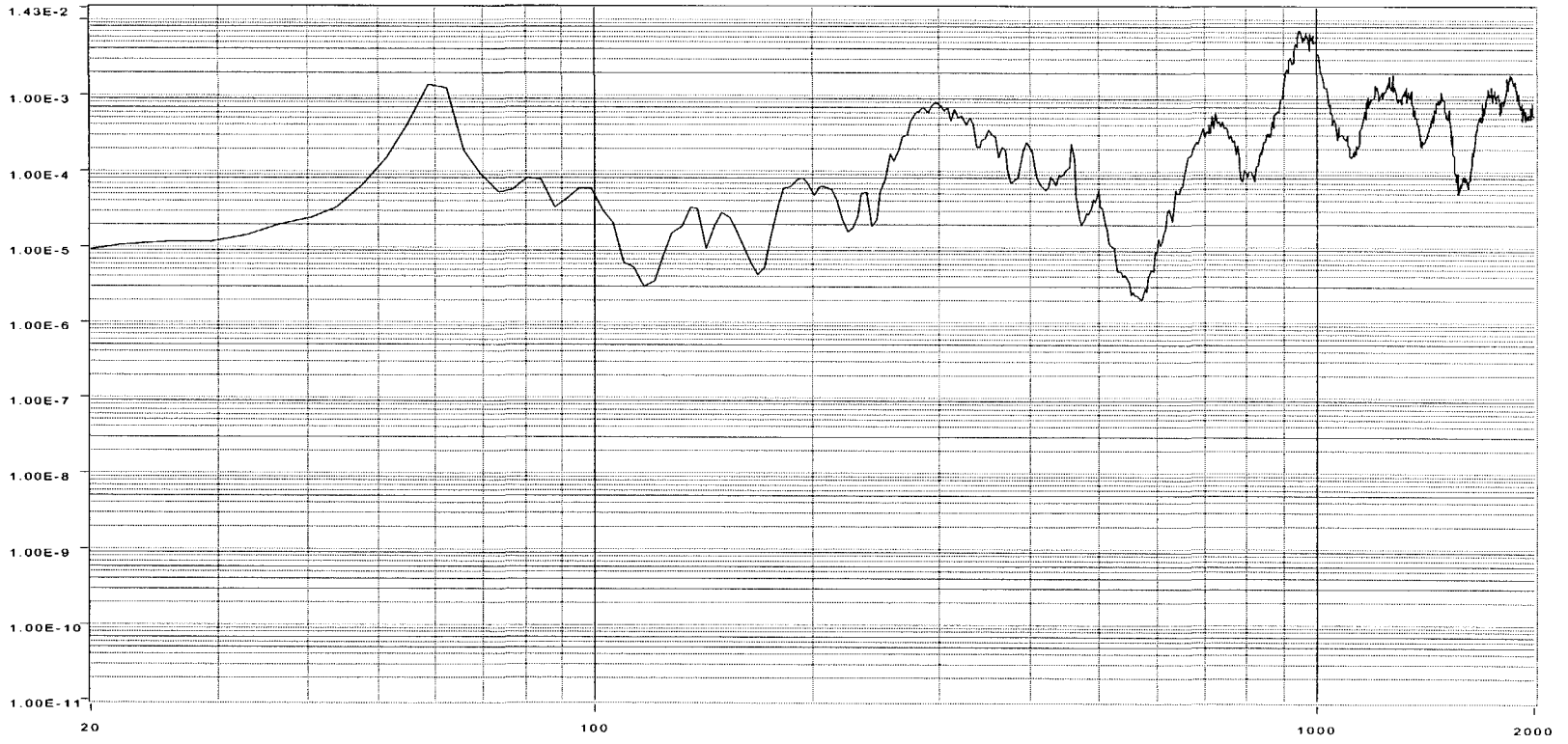
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 26.00

RMS= 1.150E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

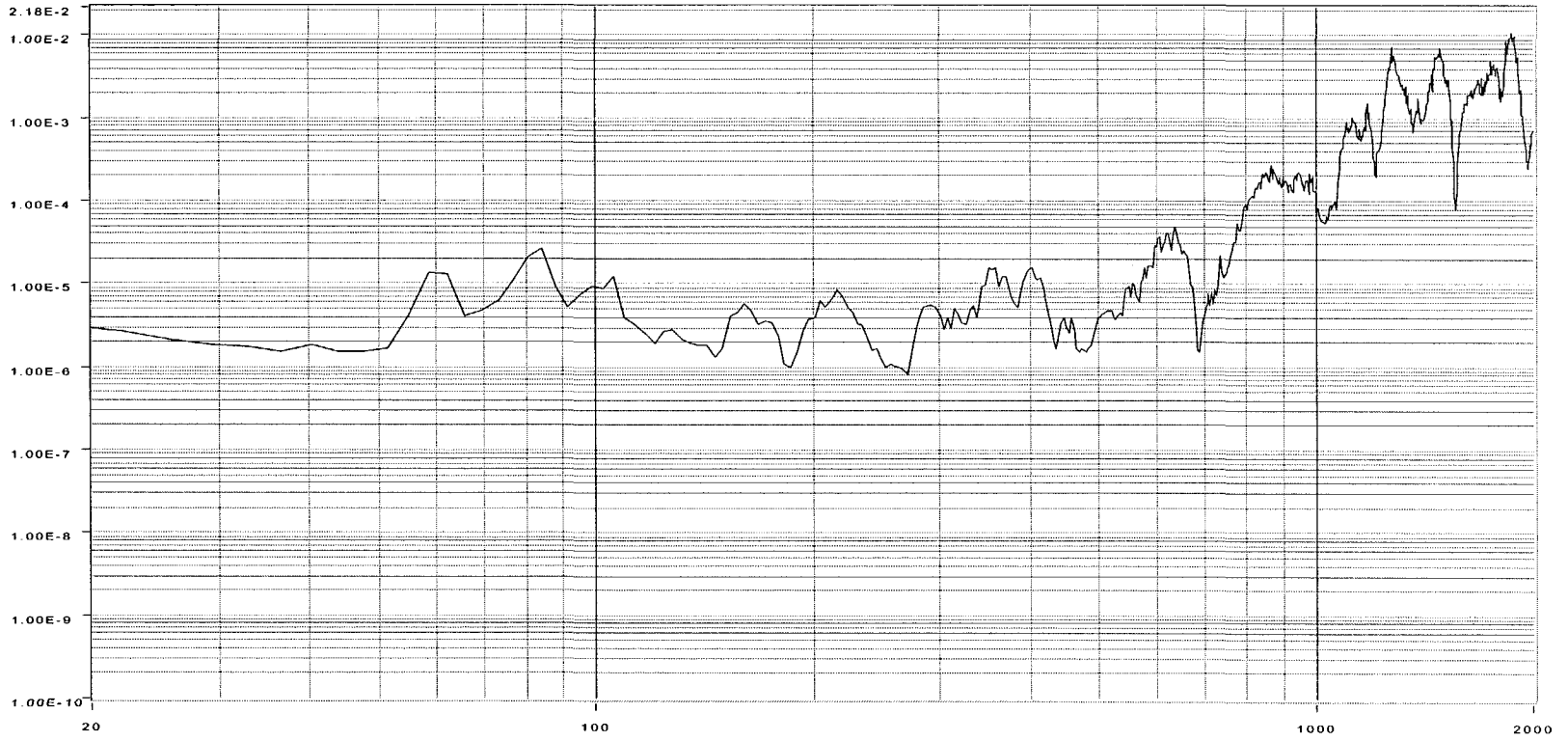
Channel #: 22 Node Number: 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 26.00

RMS= 1.516E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

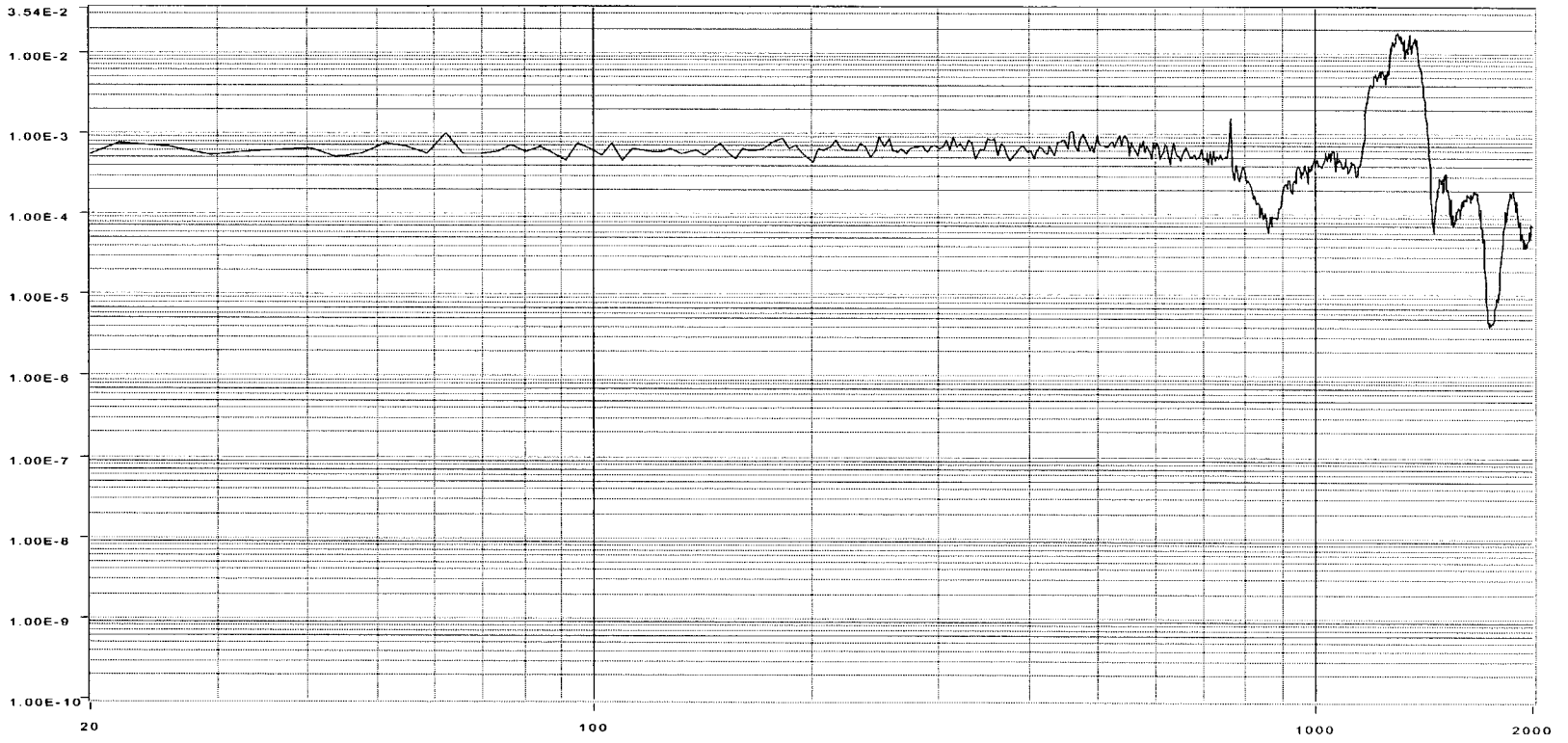
Channel #: 23 **Node Number:** 0023

Channel Label: A9 X

Channel Description:

Start Time: 26.00

RMS= 1.702E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

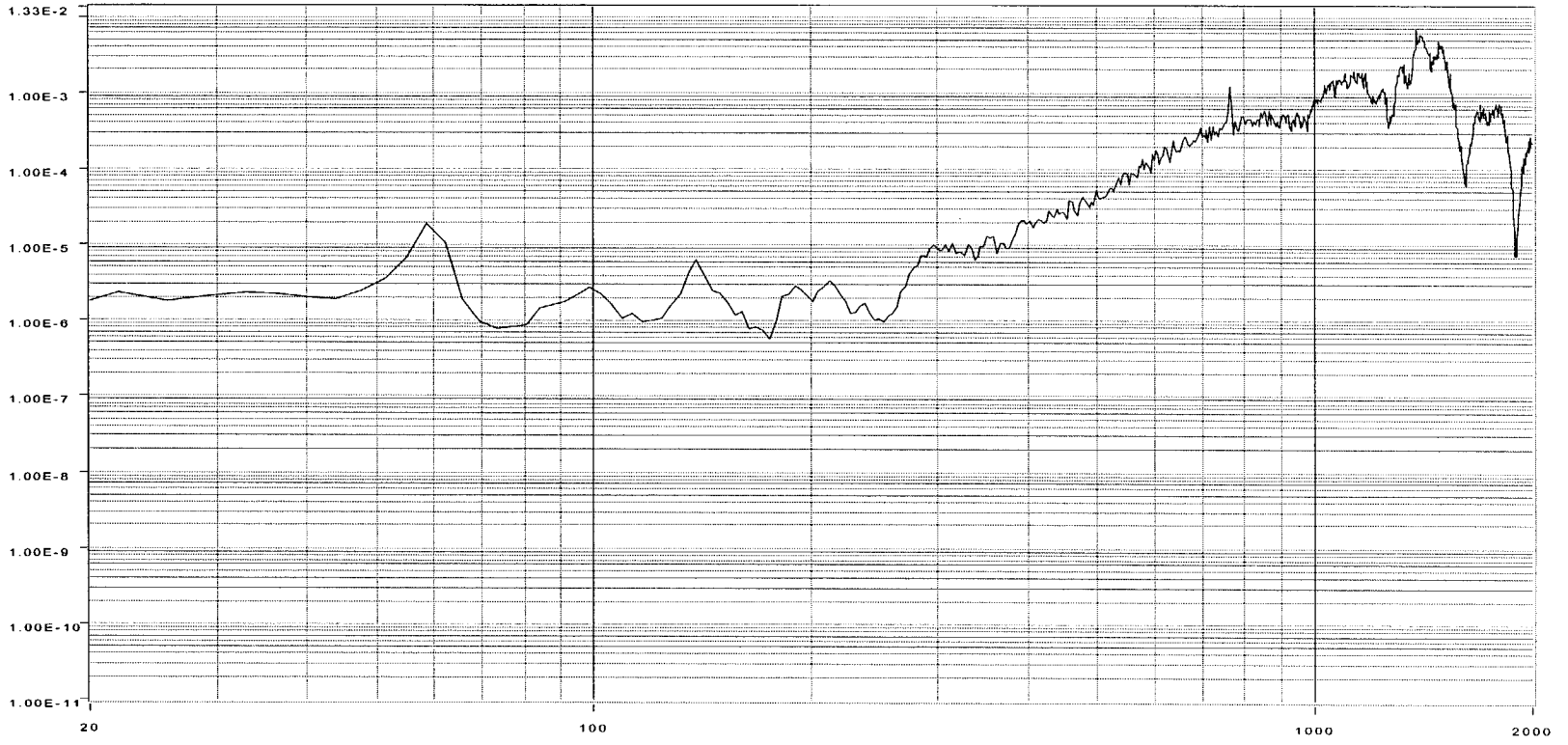
Channel #: 24 Node Number: 0024

Channel Label: A9 Y

Channel Description:

Start Time: 26.00

RMS= 1.184E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

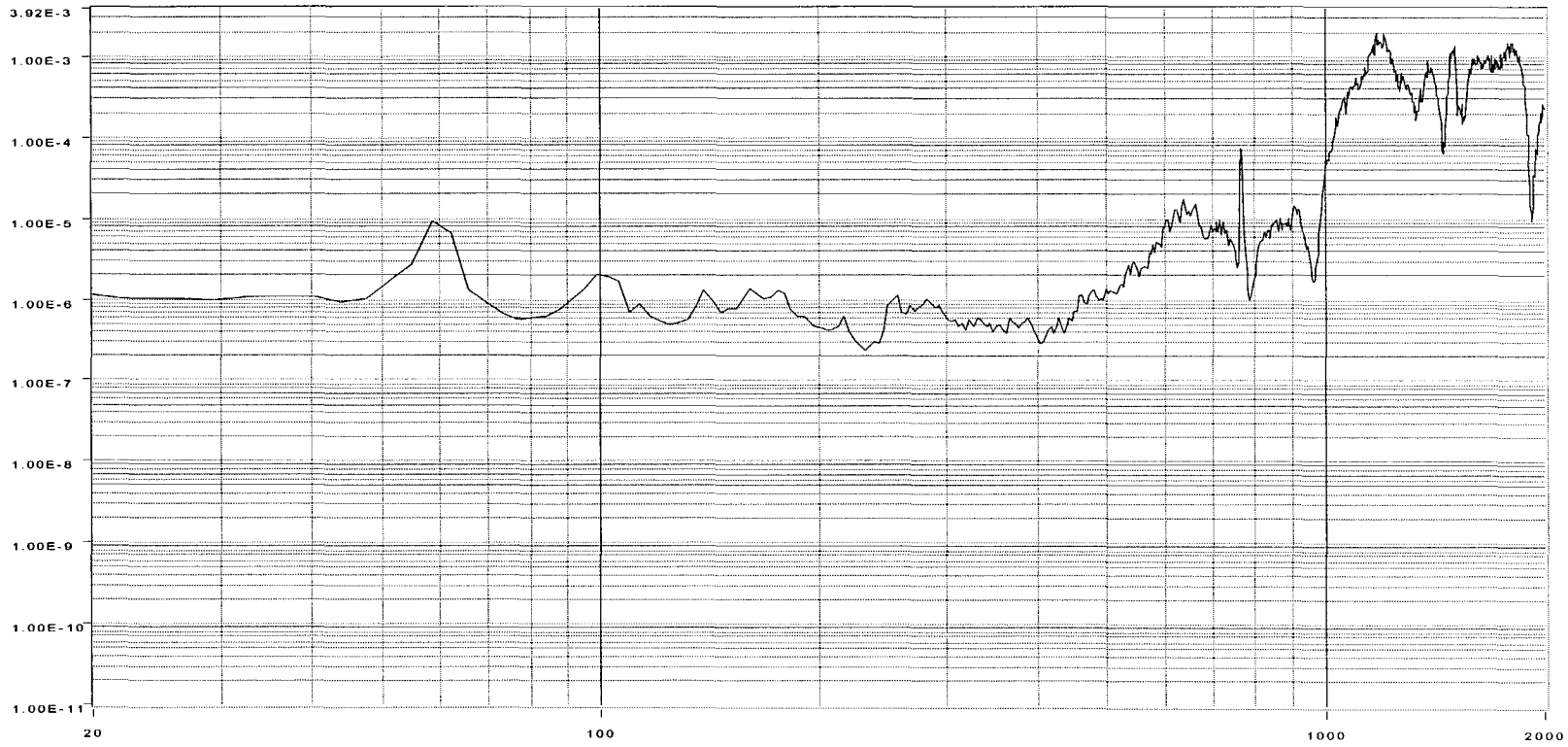
Channel #: 25 Node Number: 0025

Channel Label: A9 Z

Channel Description:

Start Time: 26.00

RMS= 7.803E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

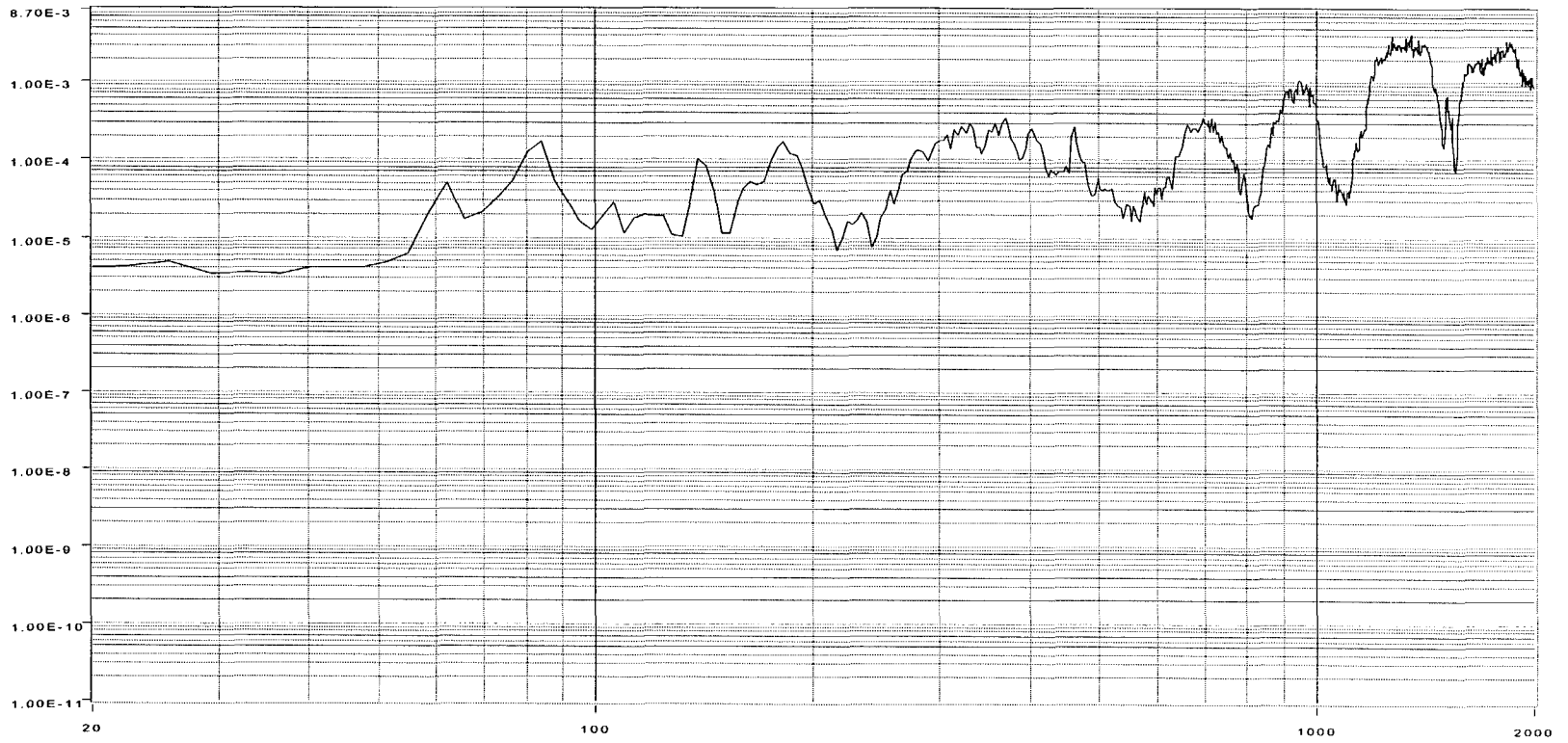
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 26.00

RMS= 1.293E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

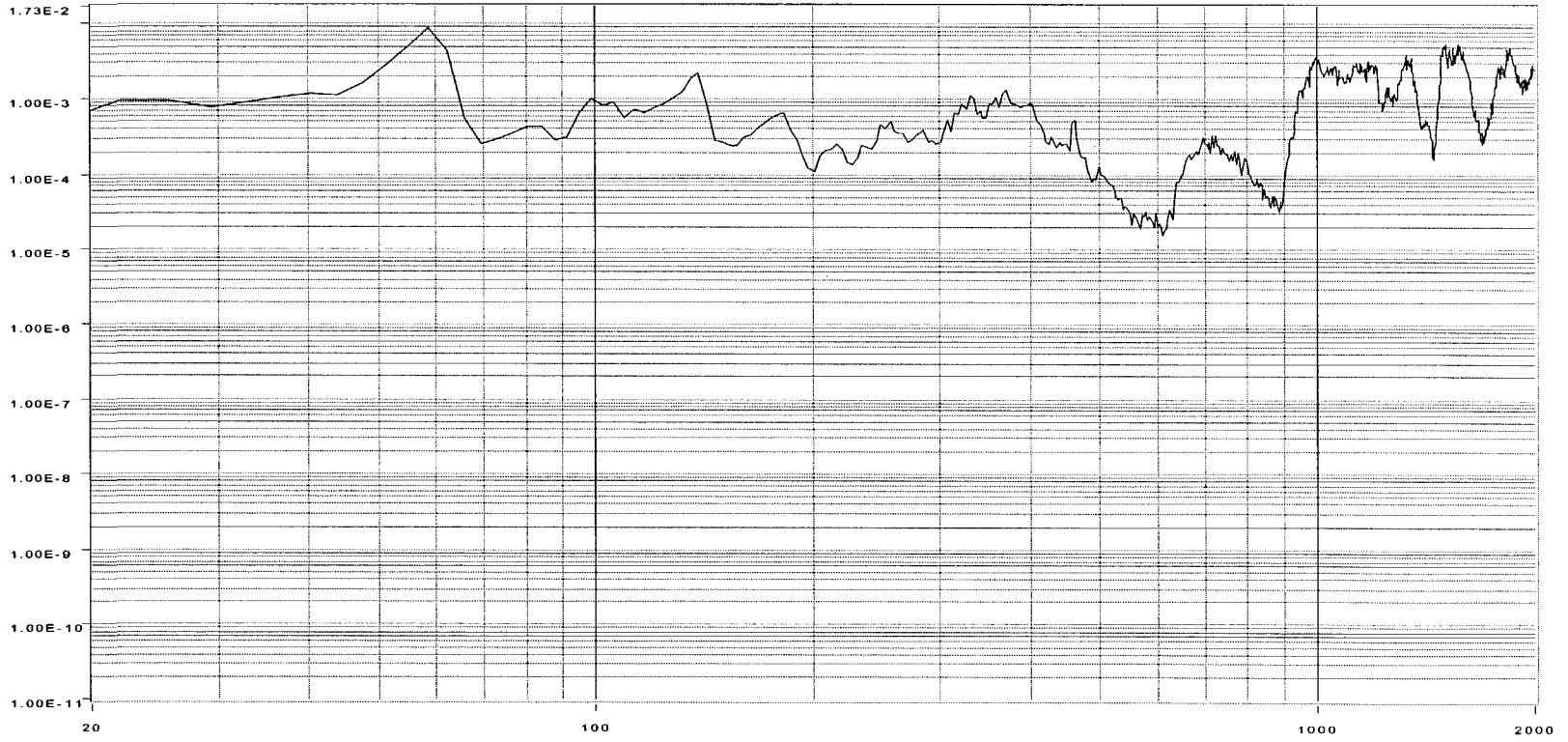
Channel #: 27 Node Number: 0027

Channel Label: A10 Y

Channel Description:

Start Time: 26.00

RMS= 1.585E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

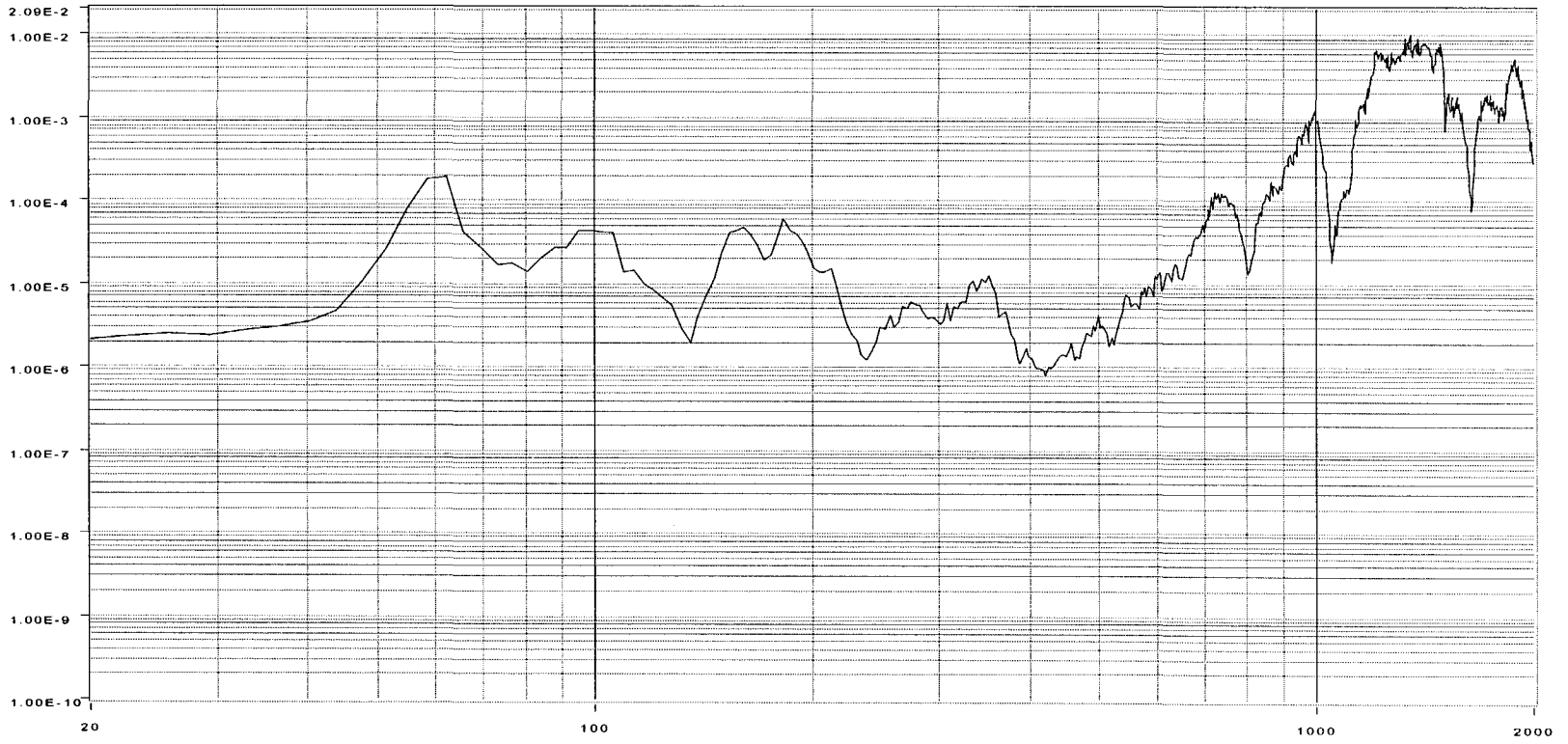
Channel #: 28 Node Number: 0028

Channel Label: A10 Z

Channel Description:

Start Time: 26.00

RMS= 1.695E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

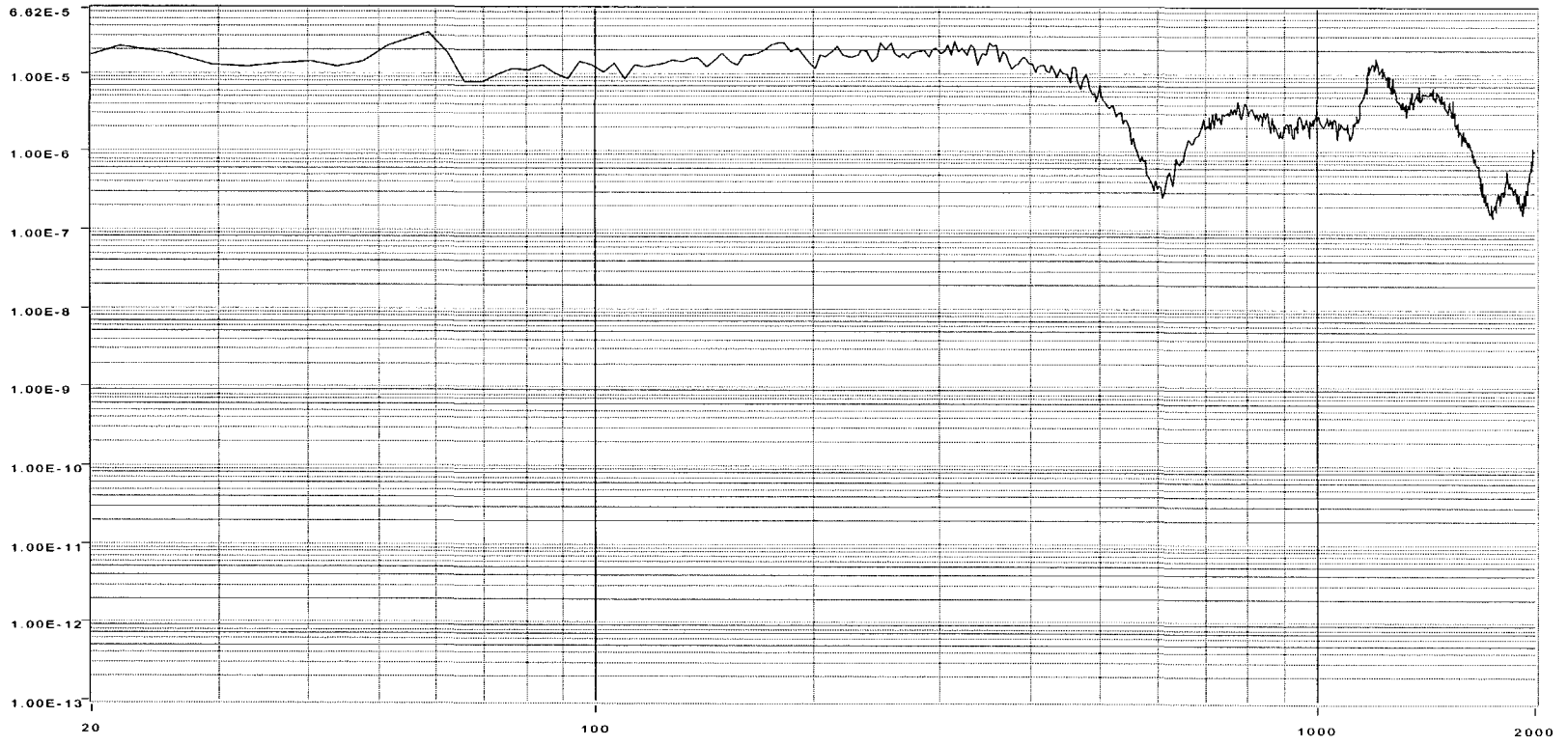
Channel #: 31 **Node Number:** 0031

Channel Label: DRIVE

Channel Description:

Start Time: 26.00

RMS= 1.069E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

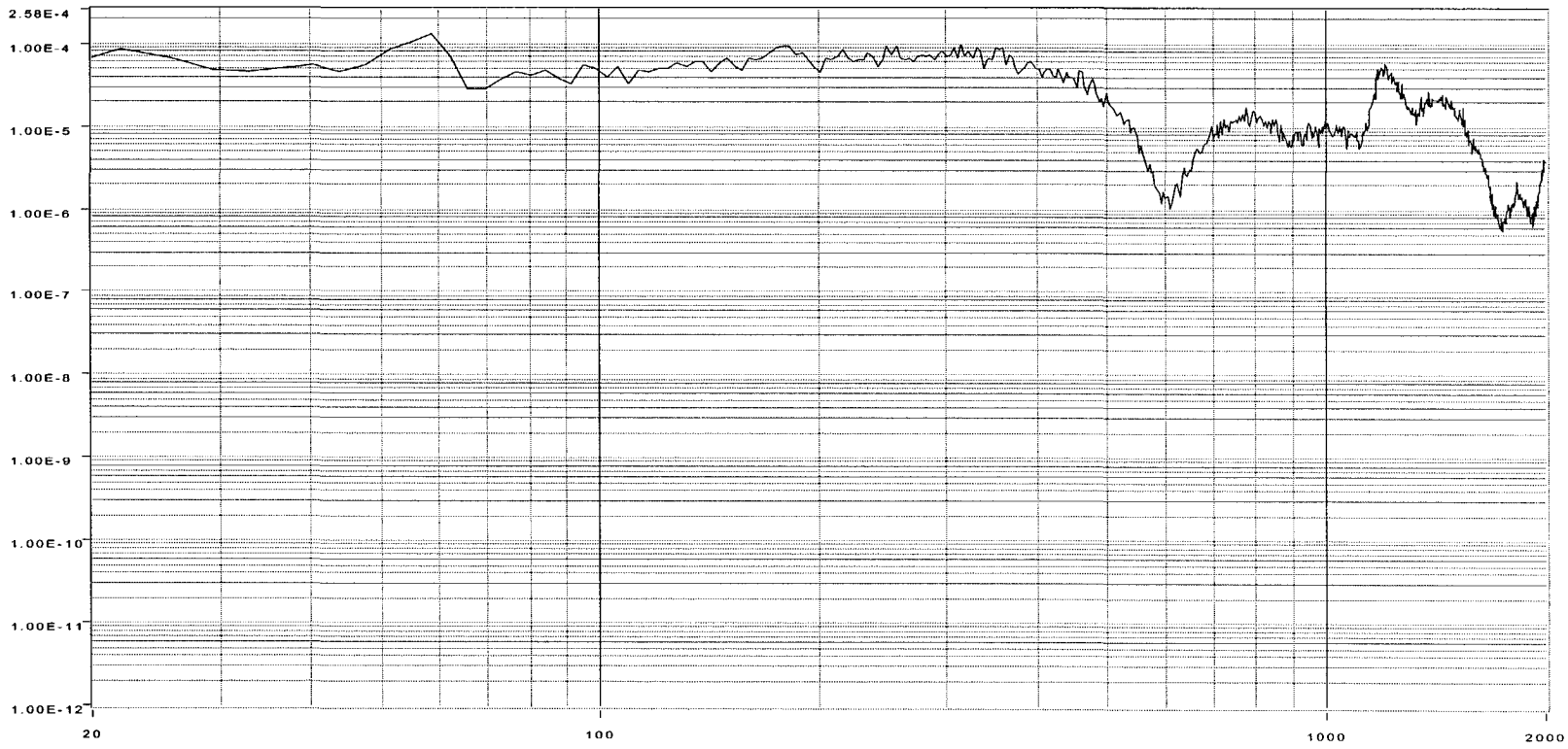
Channel #: 32 **Node Number:** 0032

Channel Label: COLA

Channel Description:

Start Time: 26.00

RMS= 2.107E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

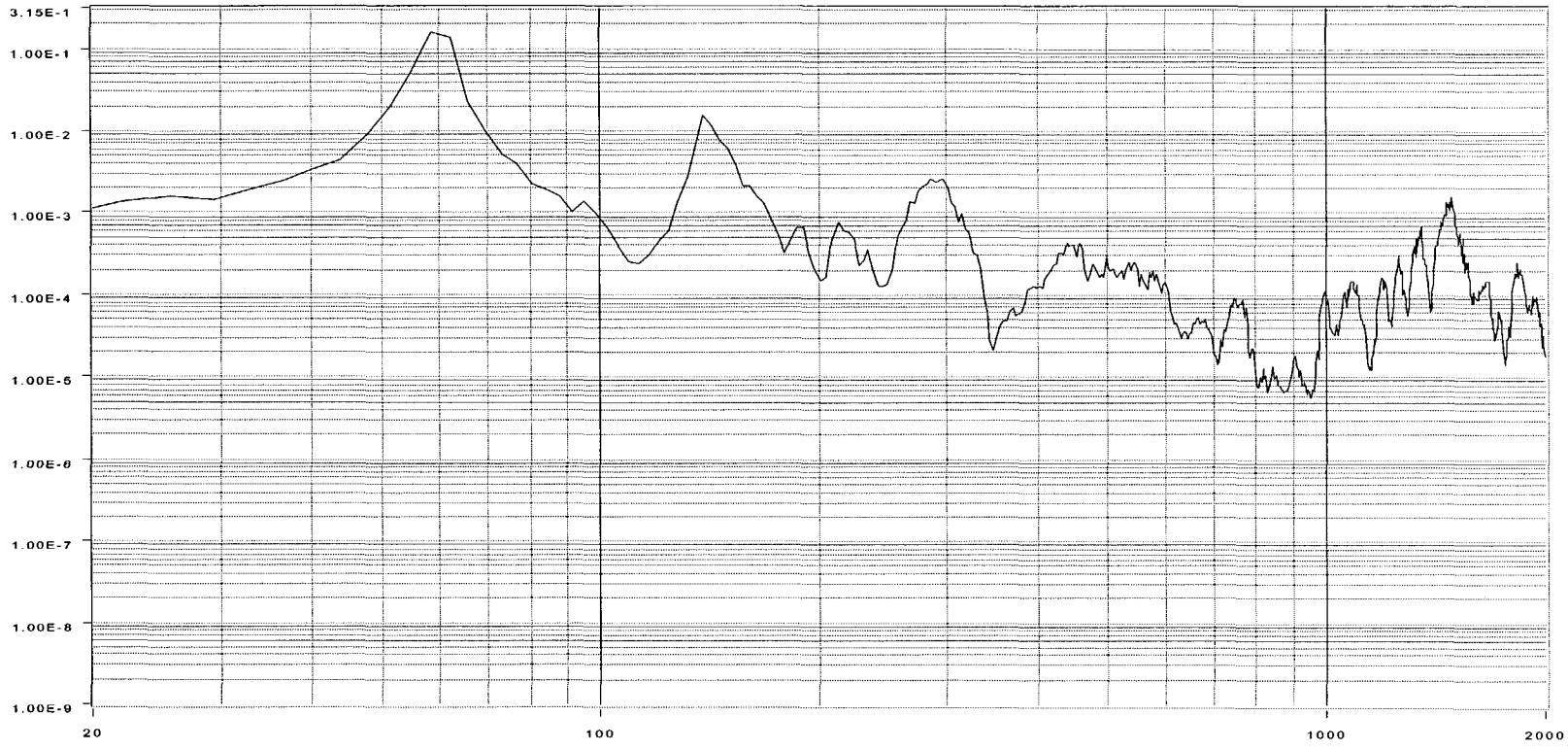
Channel #: 33 Node Number: 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 26.00

RMS= 1.505E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

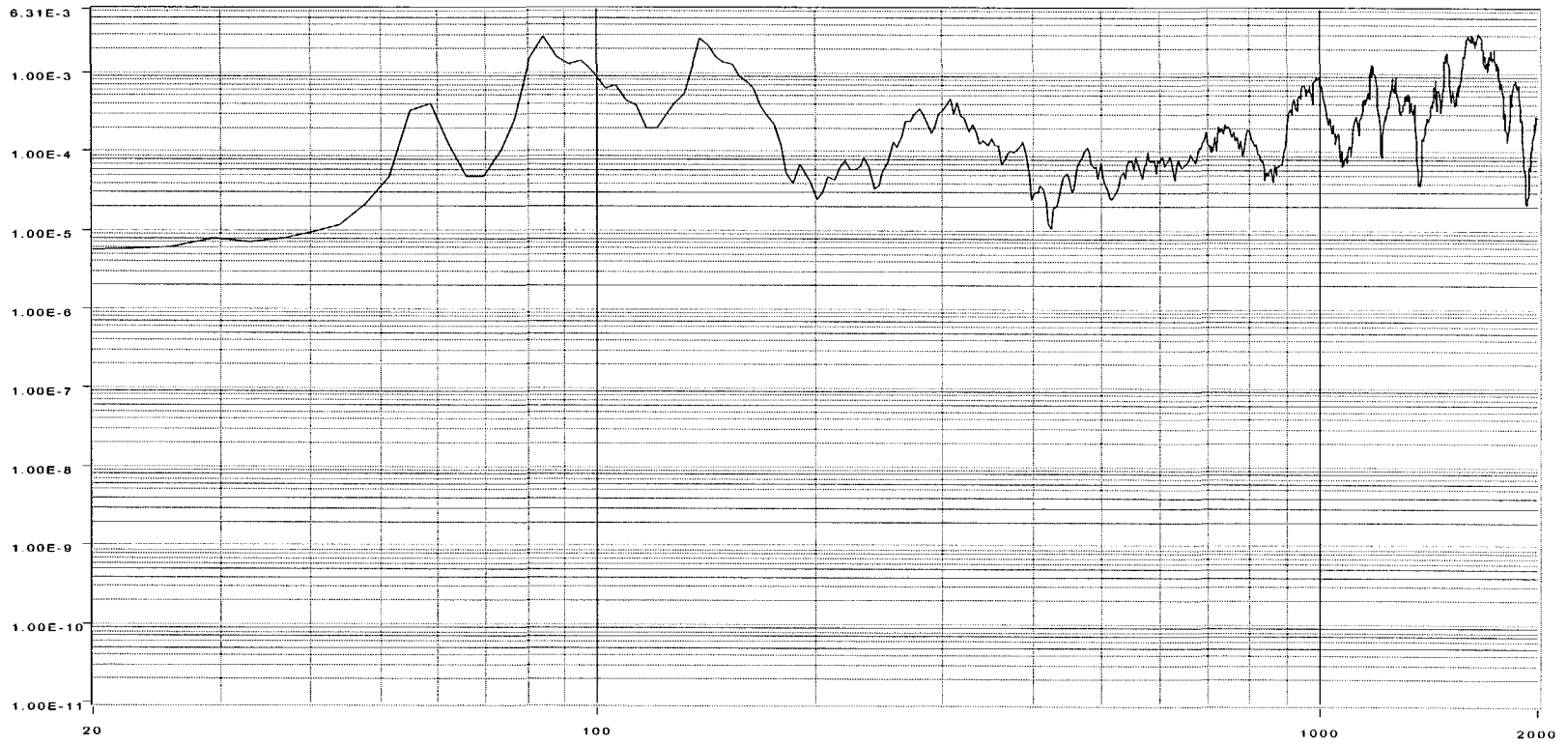
Channel #: 34 Node Number: 0034

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 26.00

RMS= 9.680E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

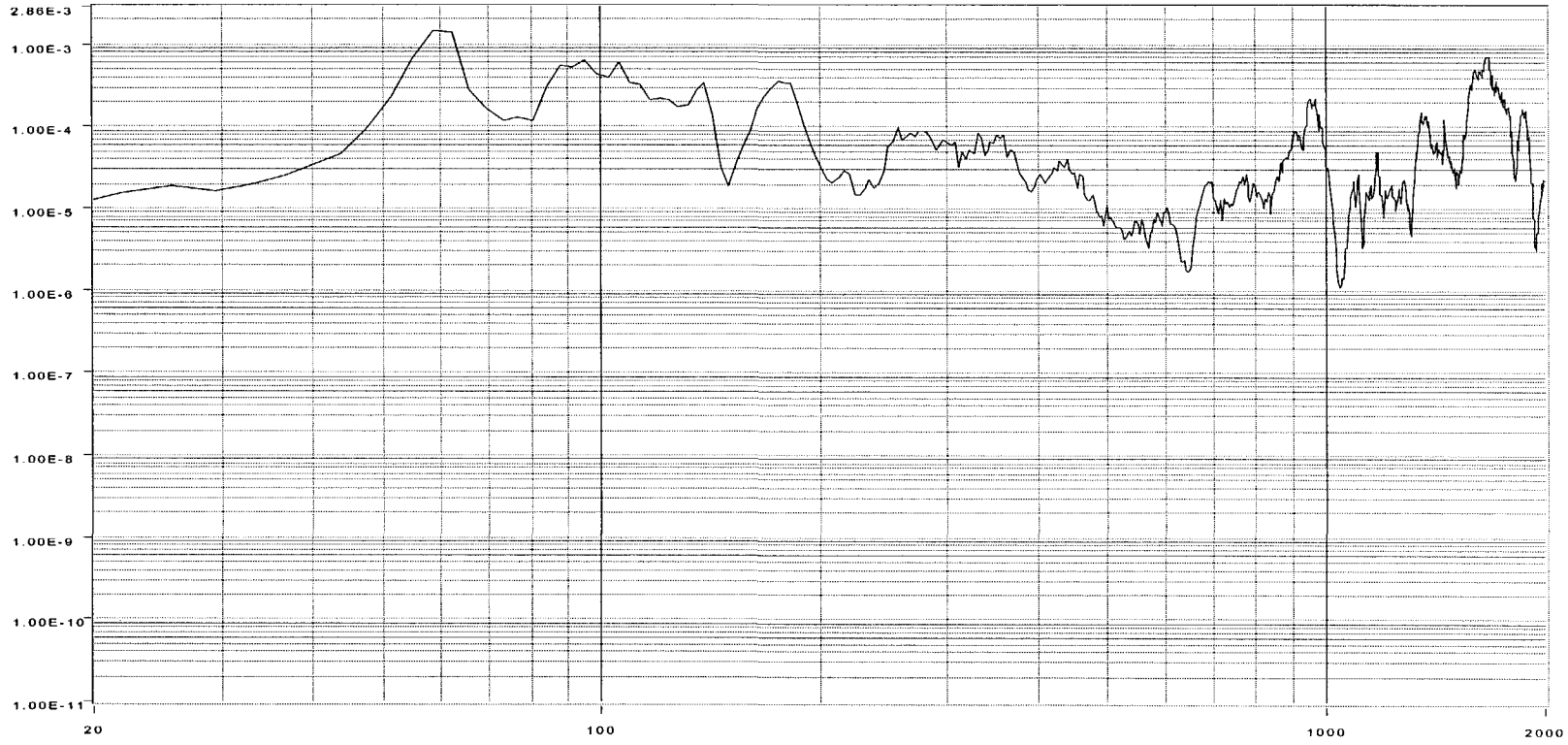
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 26.00

RMS= 4.357E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

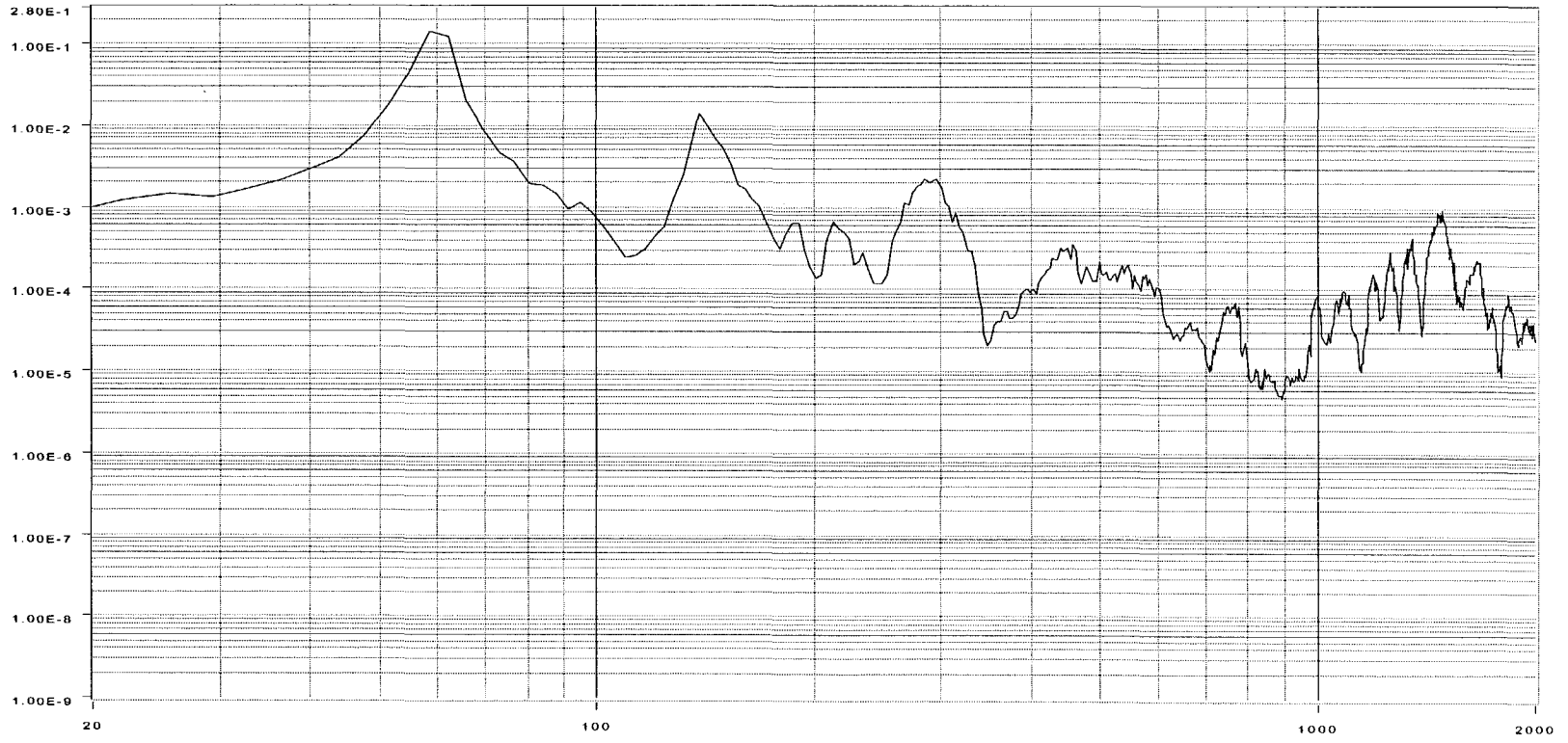
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 26.00

RMS= 1.402E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

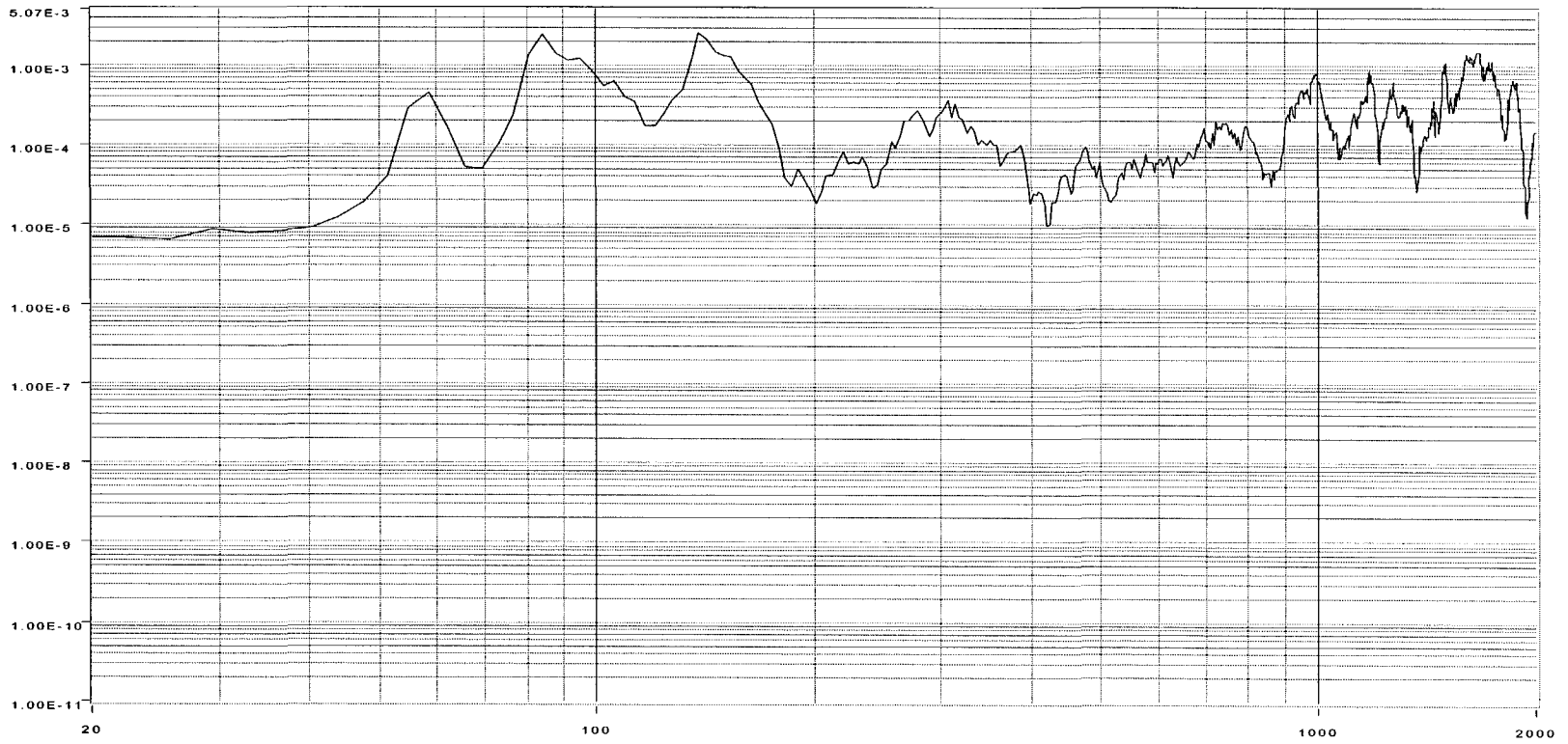
Channel #: 37 Node Number: 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 26.00

RMS= 7.837E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

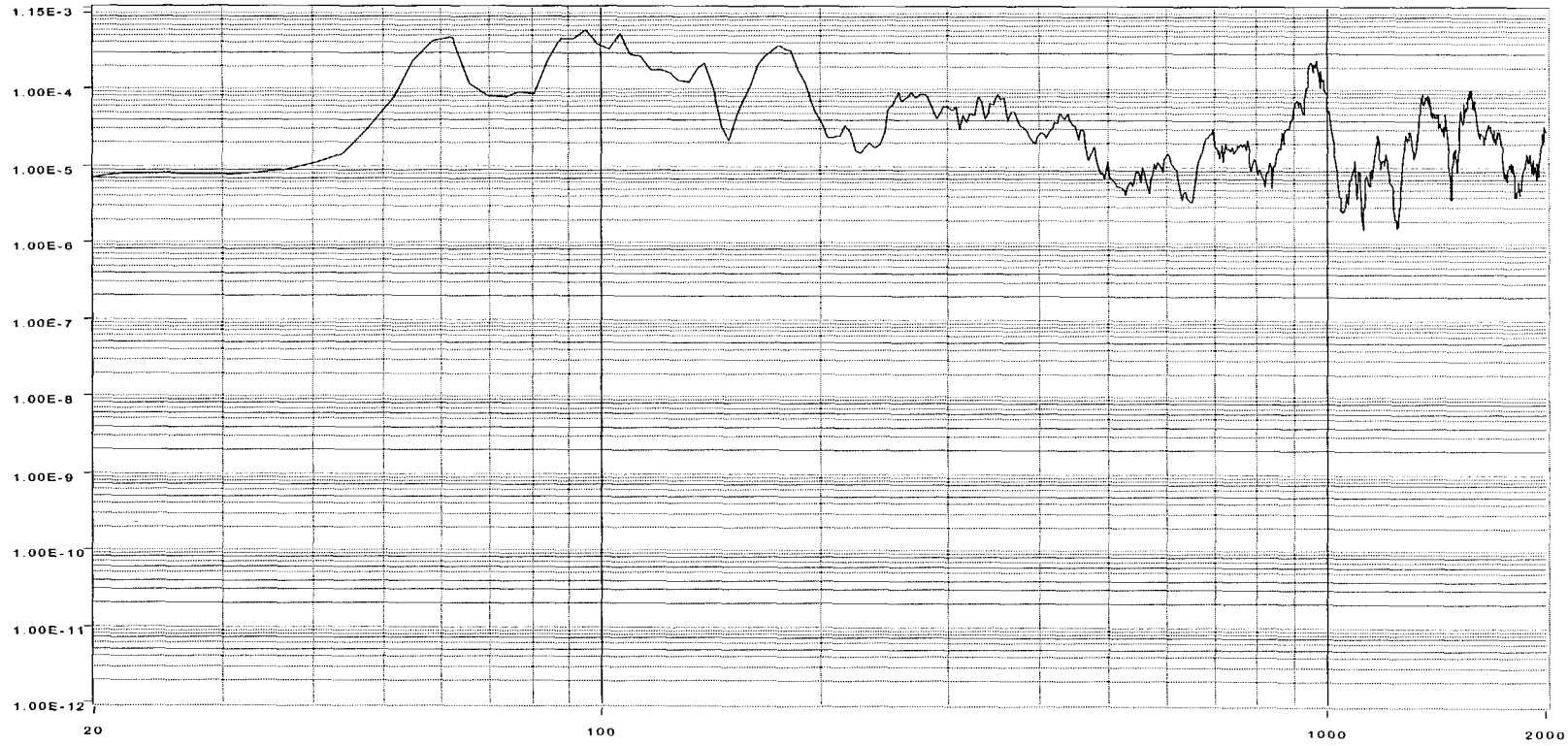
Channel #: 38 Node Number: 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 26.00

RMS= 2.947E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

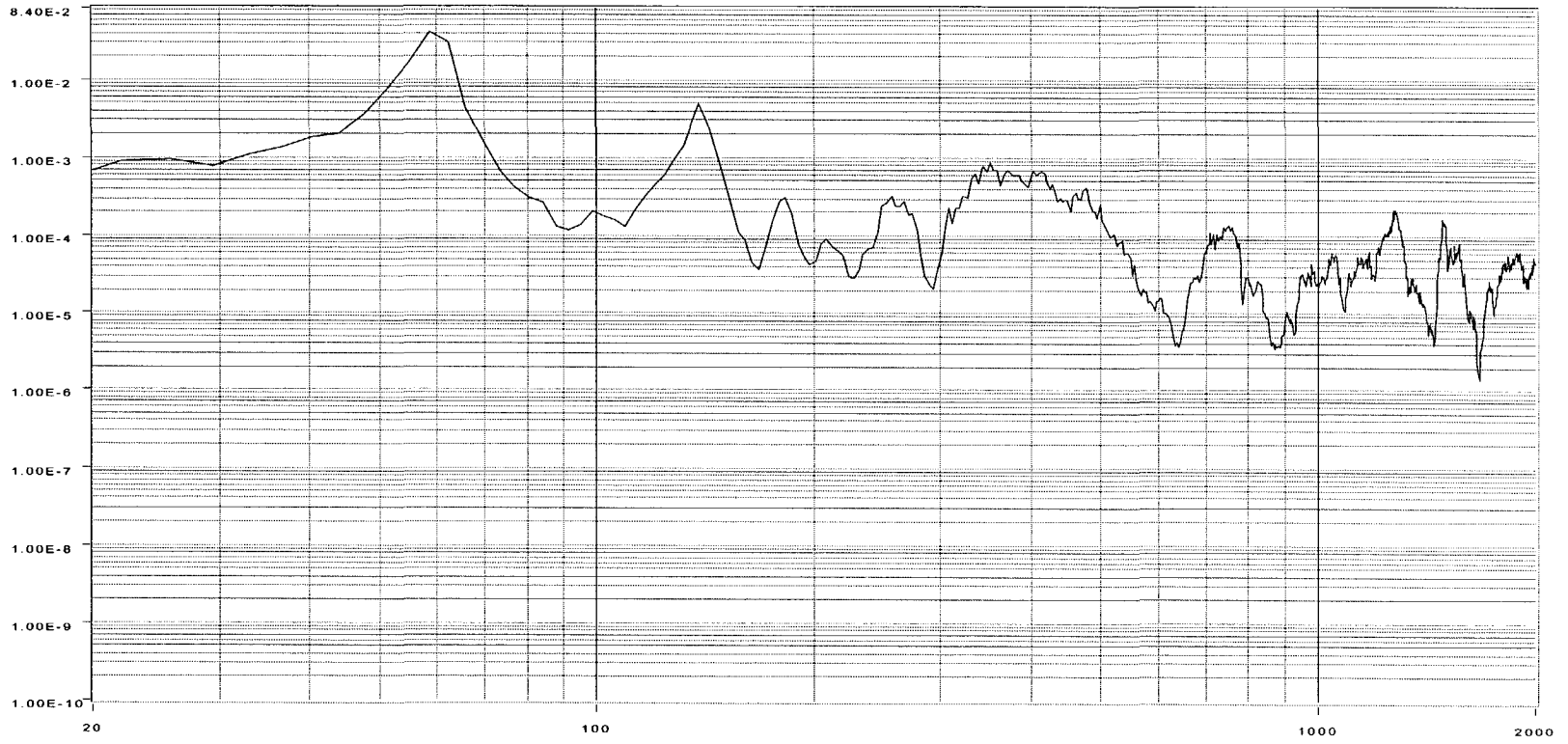
Channel #: 39 Node Number: 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 26.00

RMS= 8.125E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

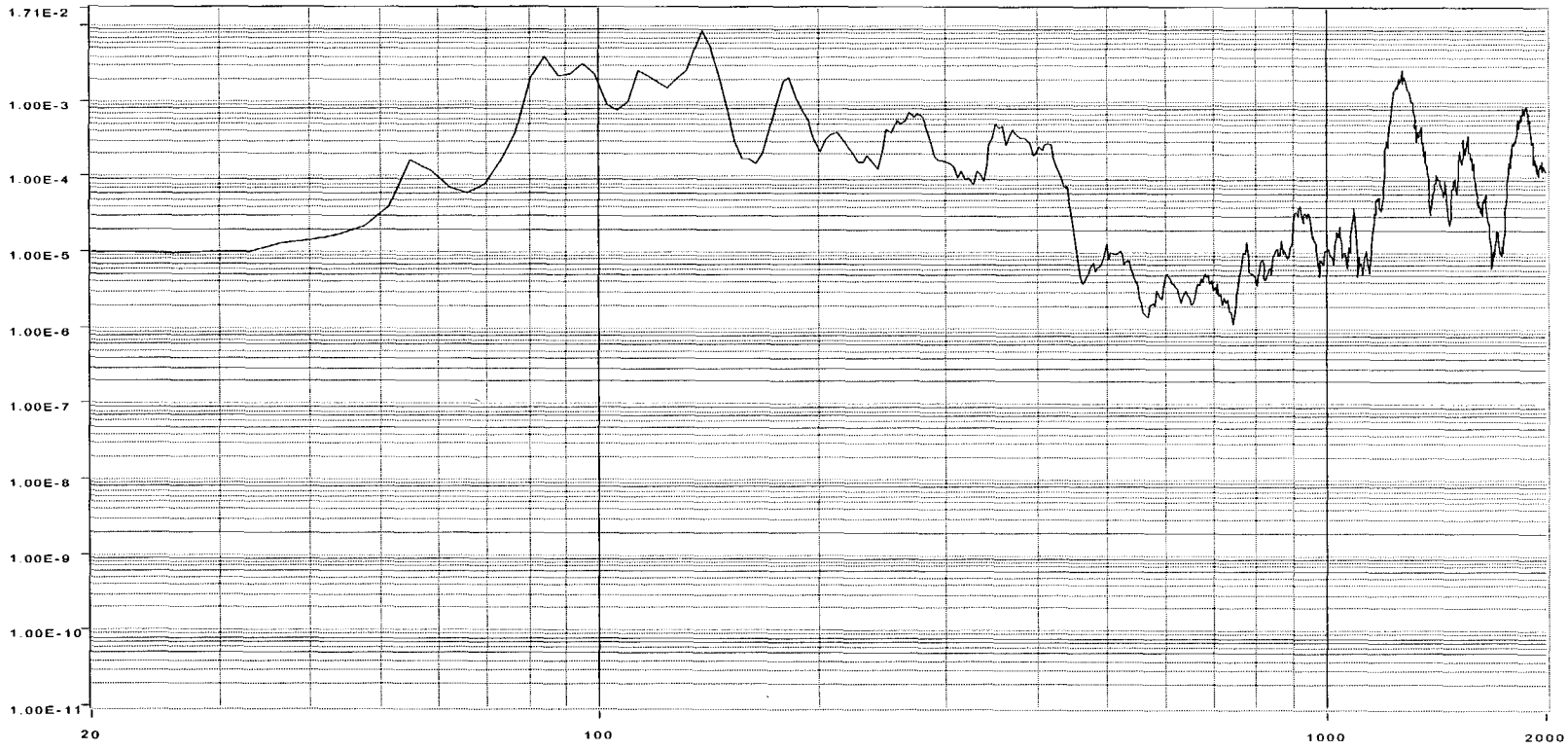
Channel #: 40 Node Number: 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 26.00

RMS= 7.617E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

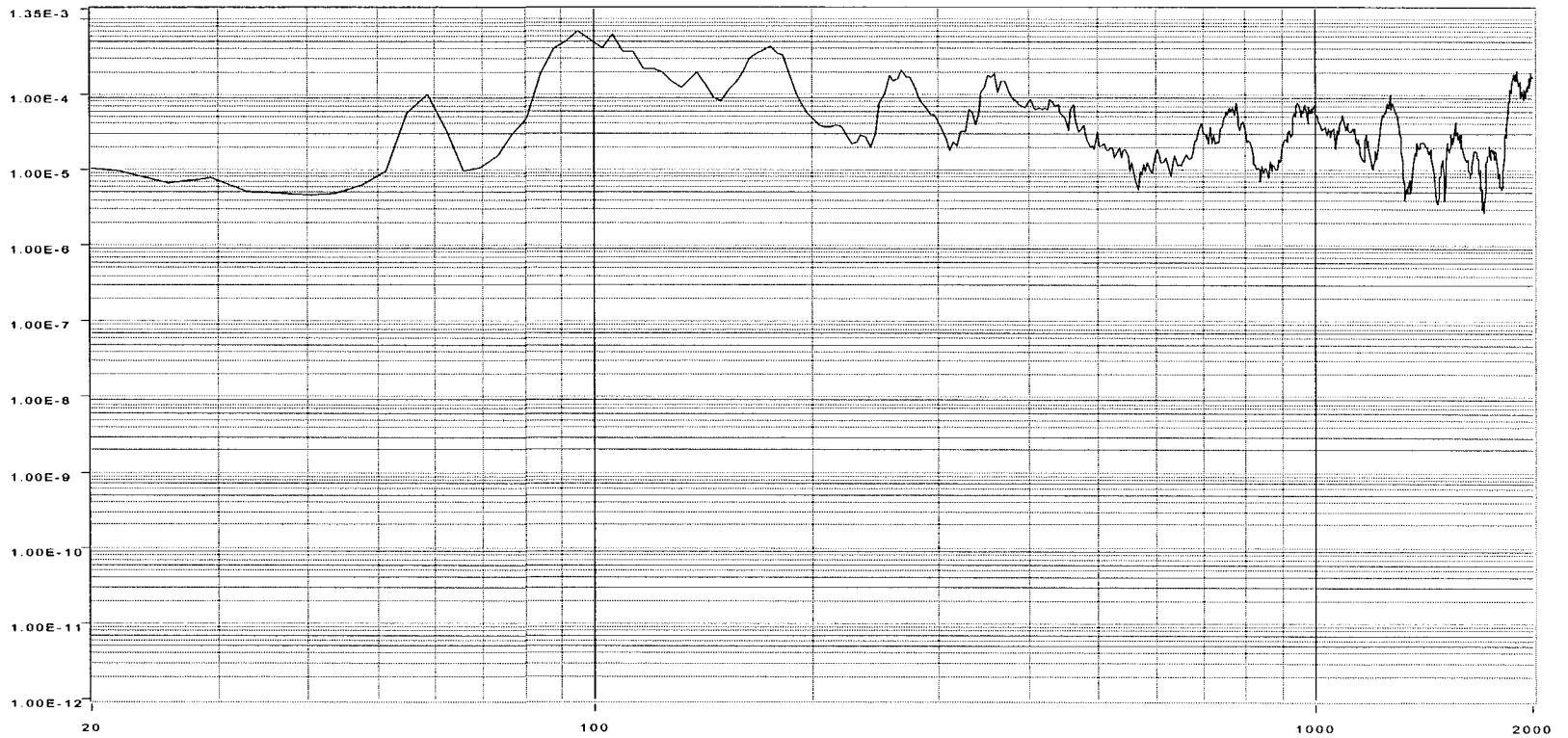
Channel #: 41 Node Number: 0041

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 26.00

RMS= 3.257E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

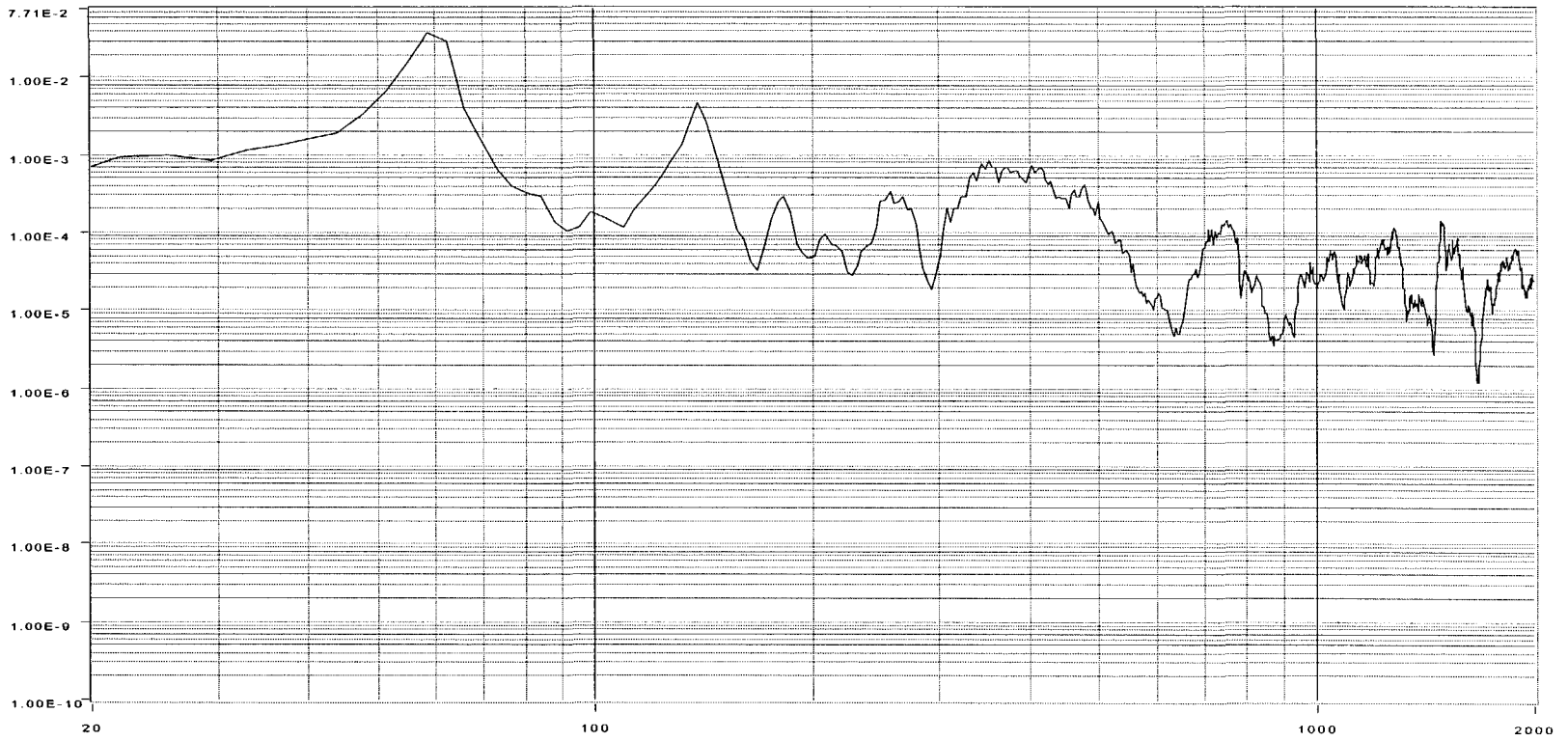
Channel #: 42 Node Number: 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 26.00

RMS= 7.837E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

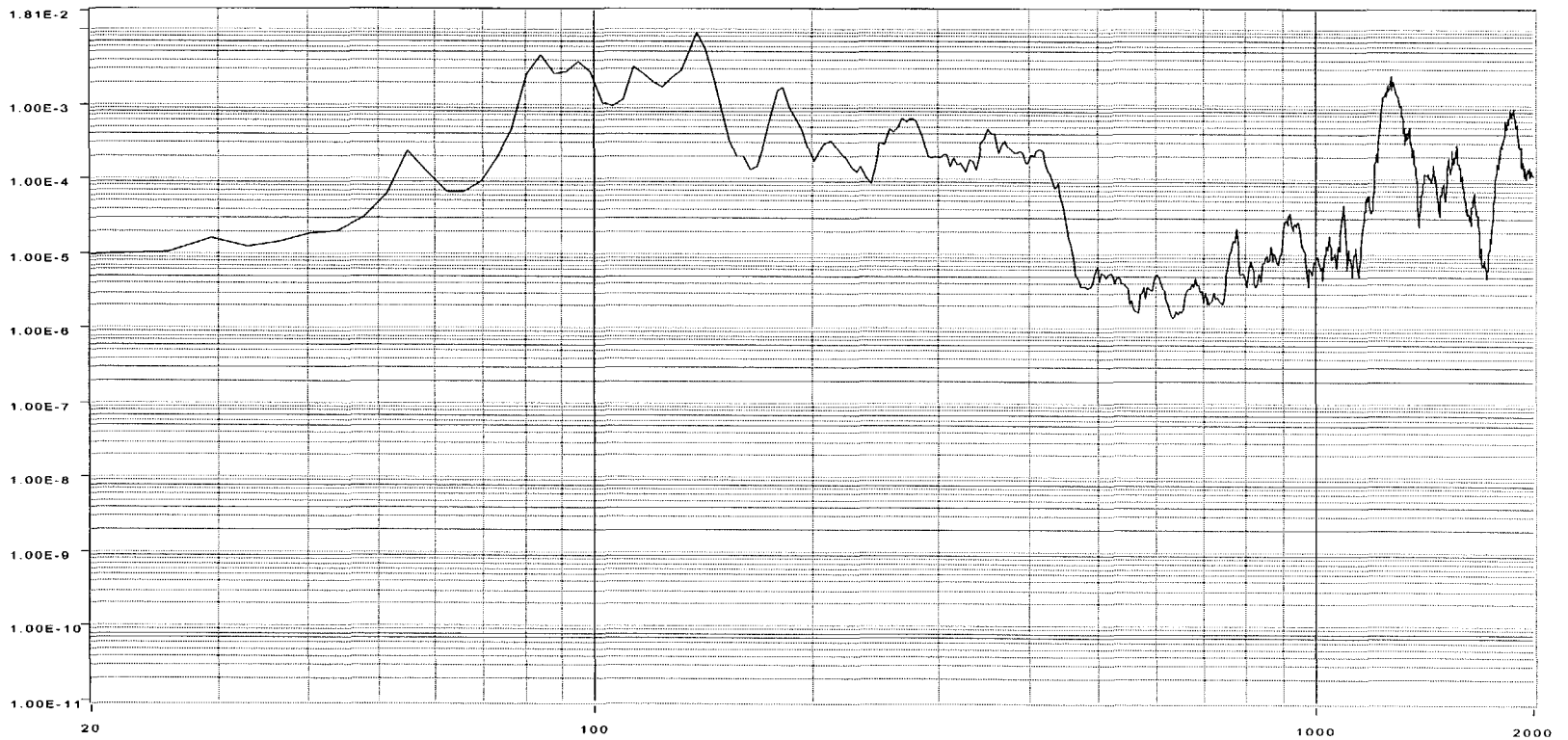
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 26.00

RMS= 7.569E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

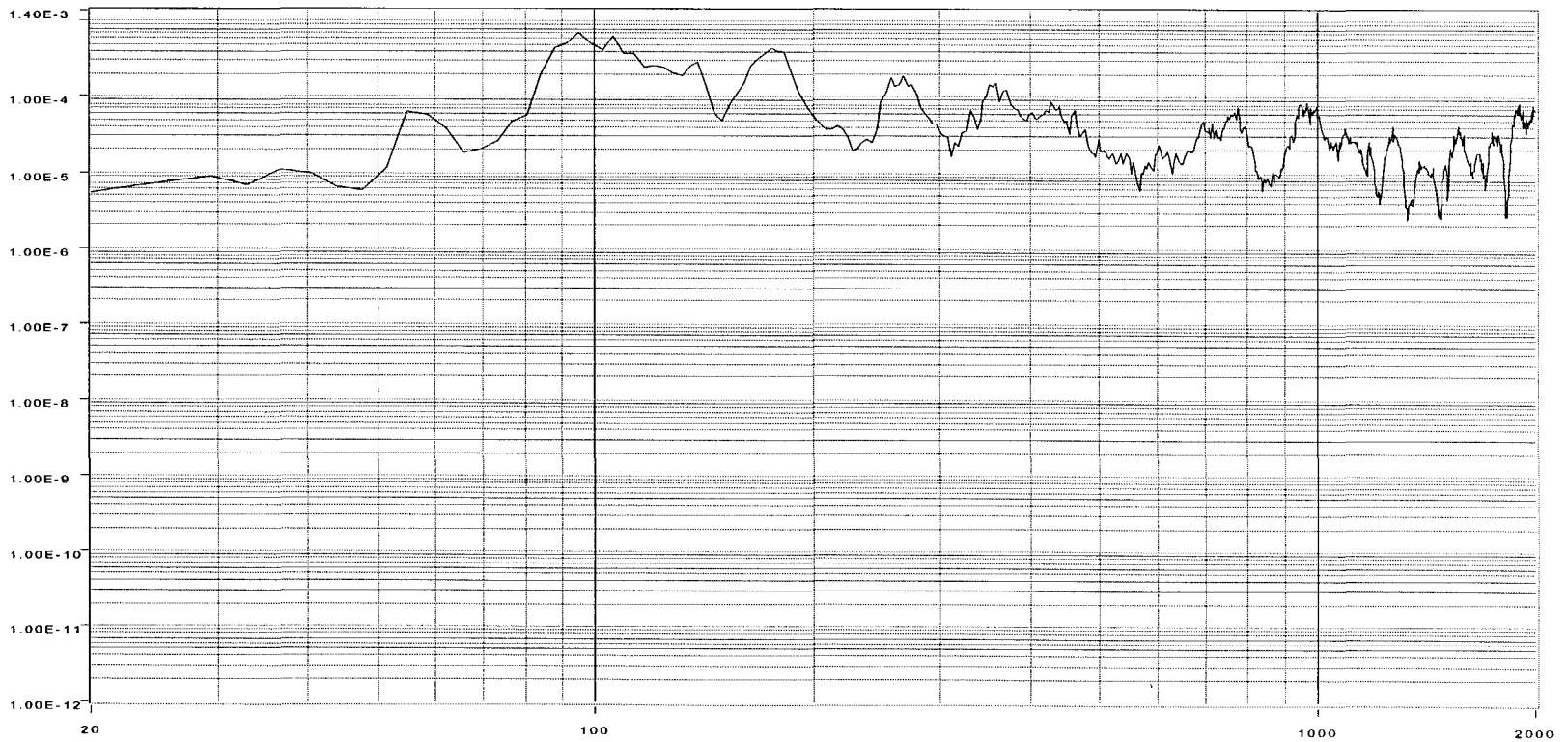
Channel #: 44 **Node Number:** 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 26.00

RMS= 3.027E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

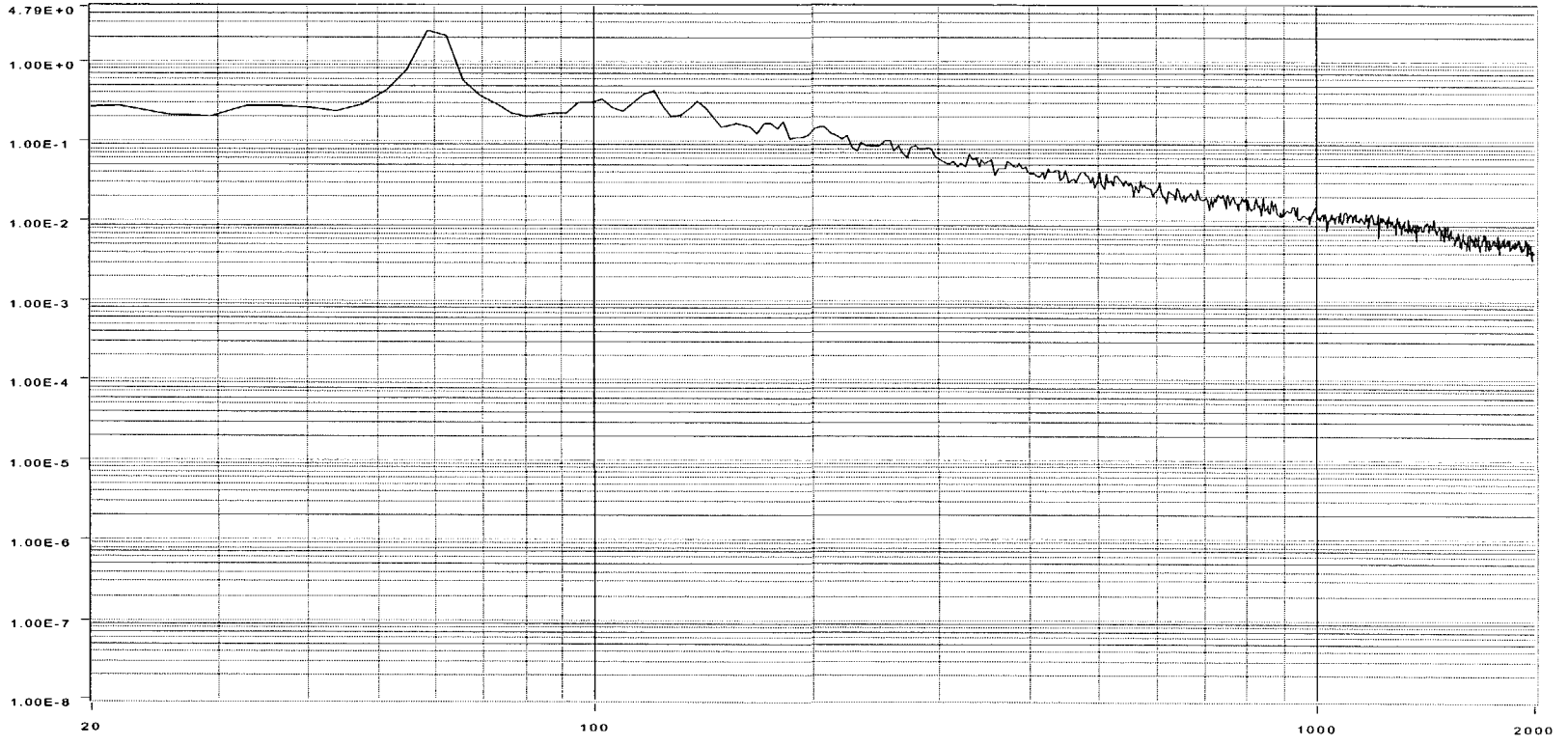
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 26.00

RMS= 9.726E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

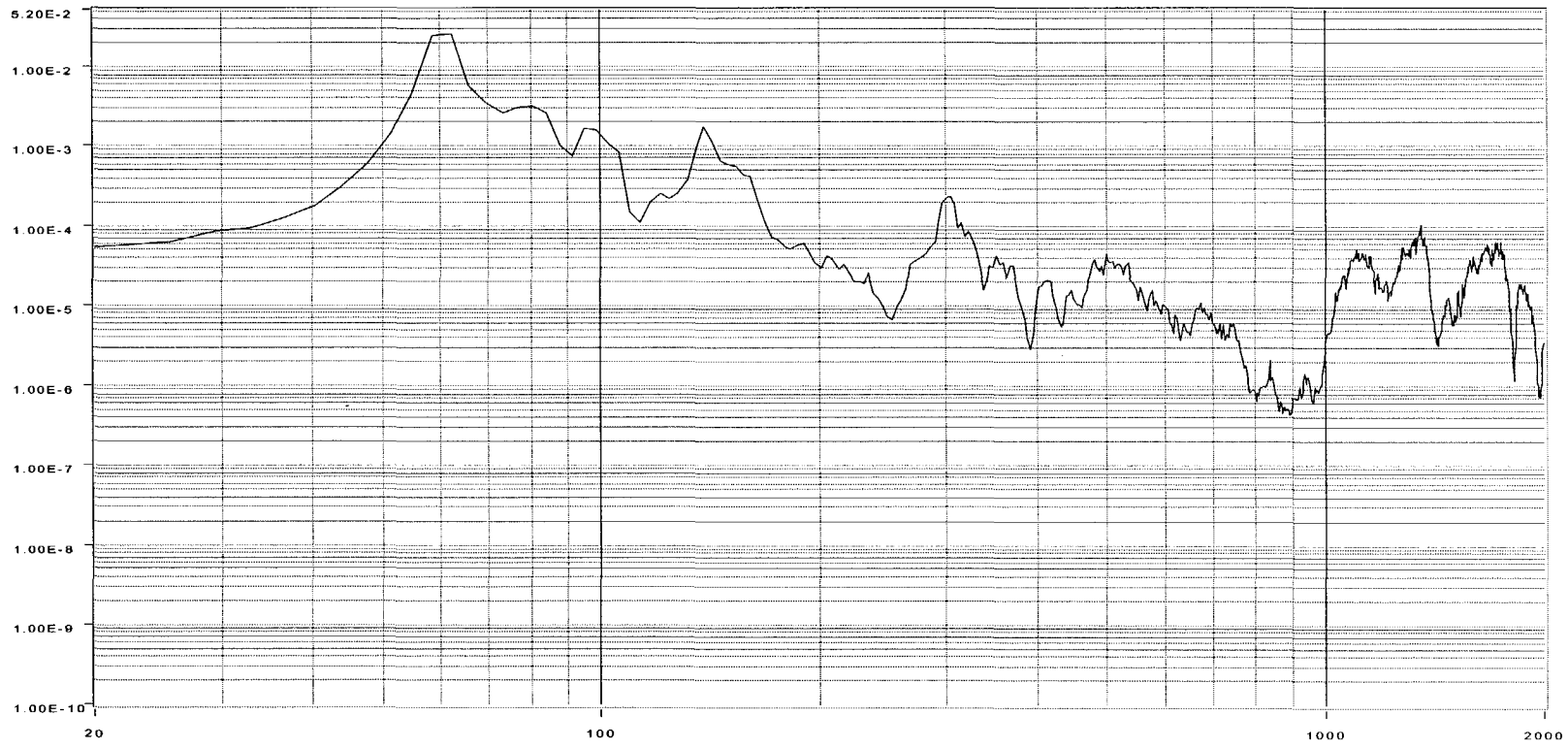
Channel #: 46 **Node Number:** 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 26.00

RMS= 6.222E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

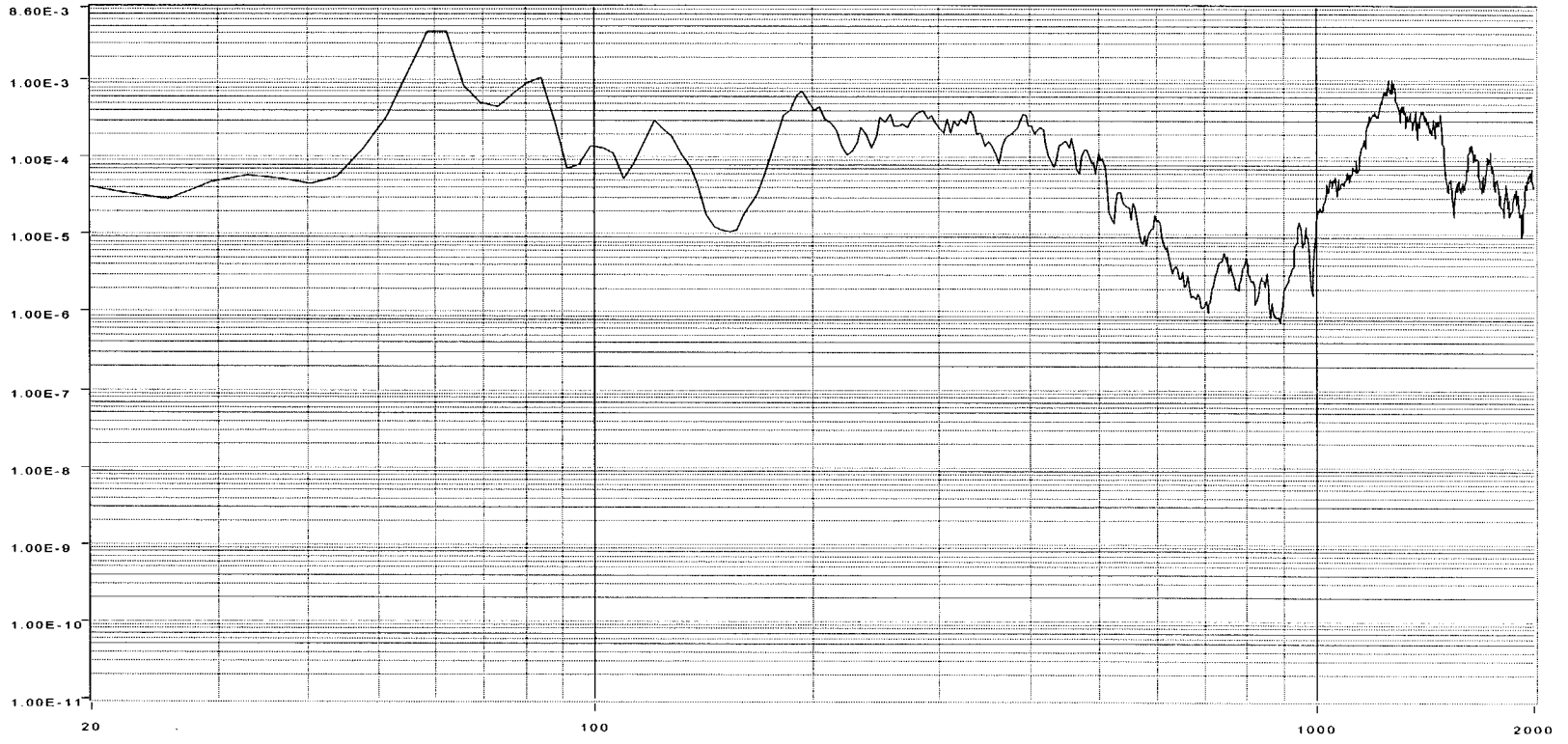
Channel #: 47 Node Number: 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 26.00

RMS= 5.507E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

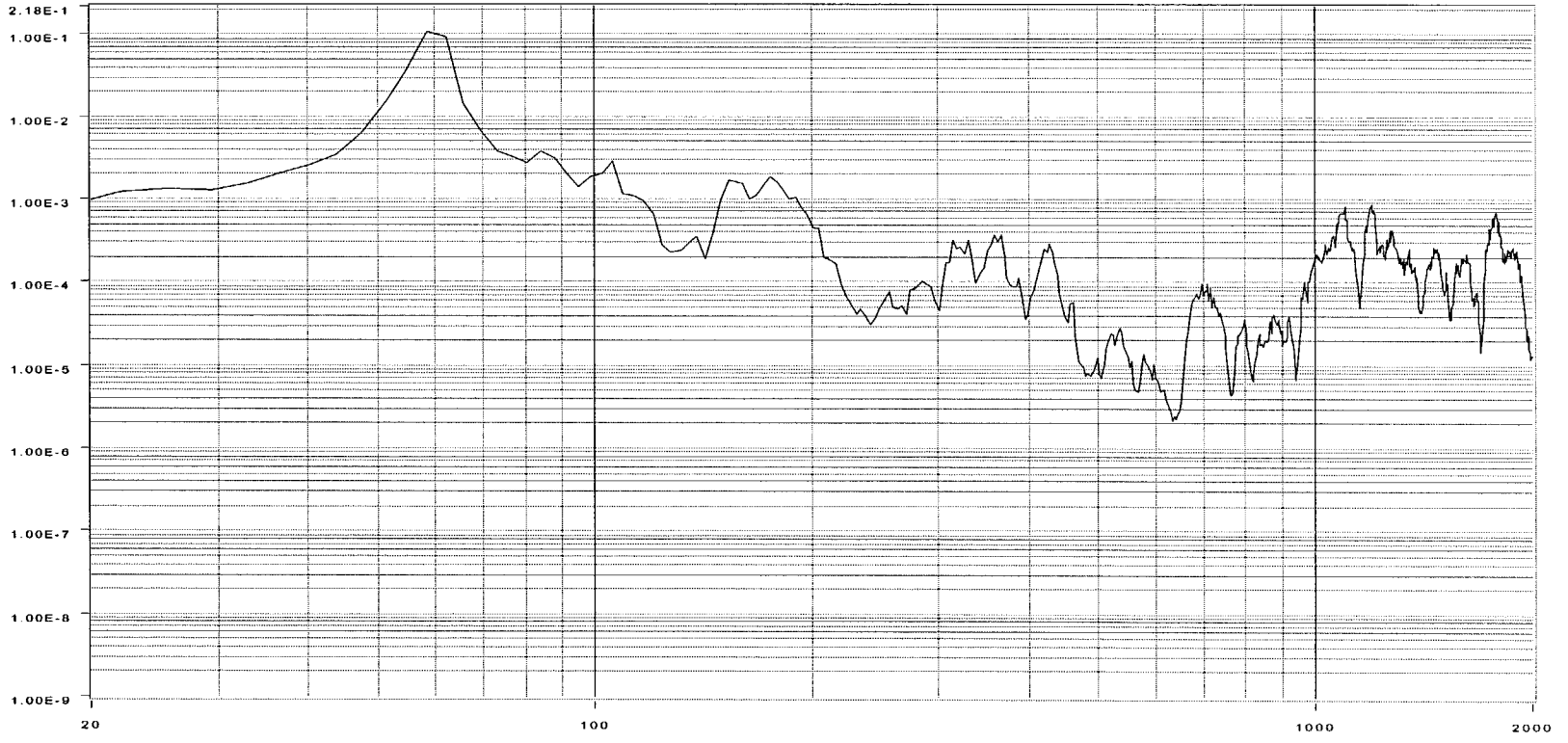
Channel #: 48 Node Number: 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 26.00

RMS= 1.241E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

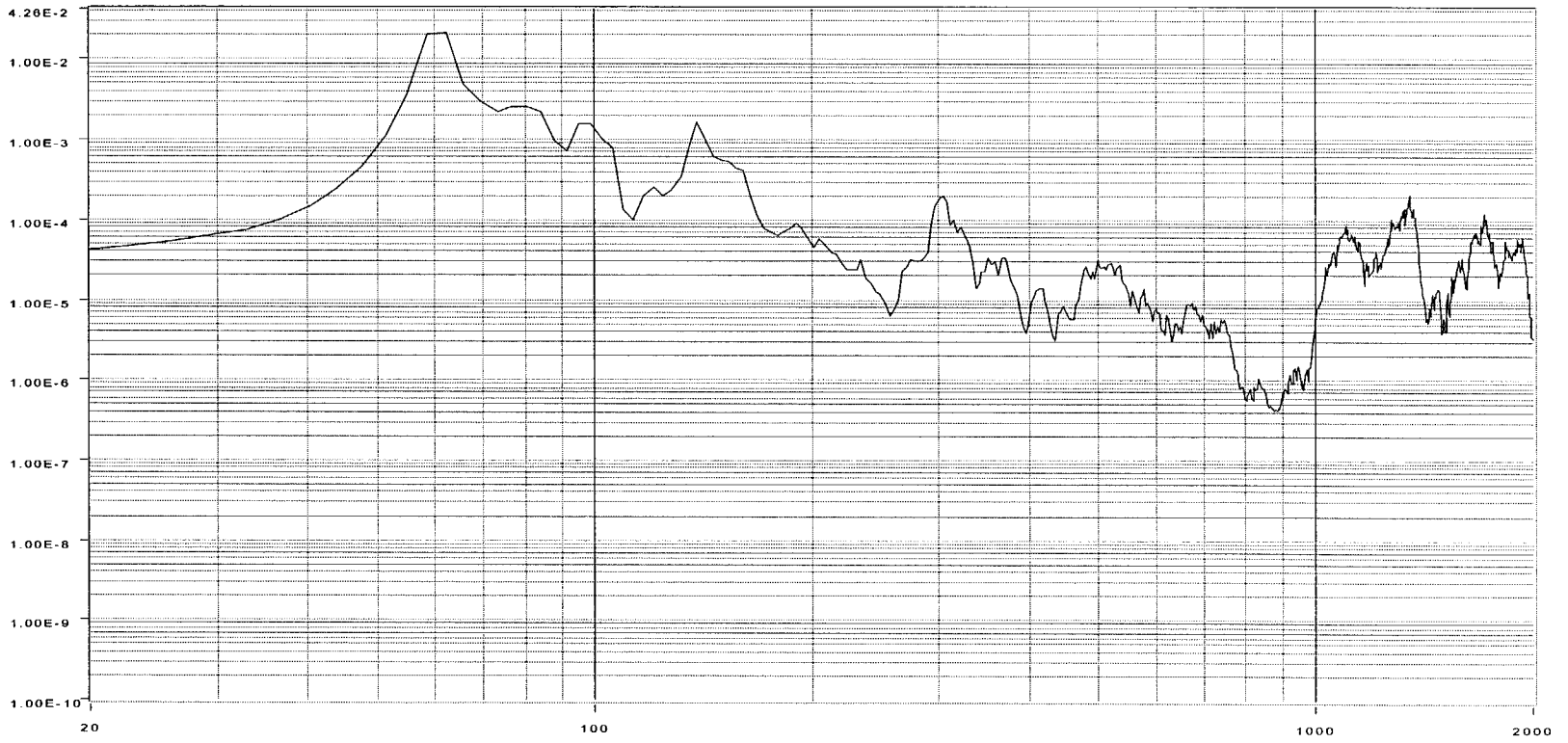
Channel #: 49 Node Number: 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 26.00

RMS= 5.891E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

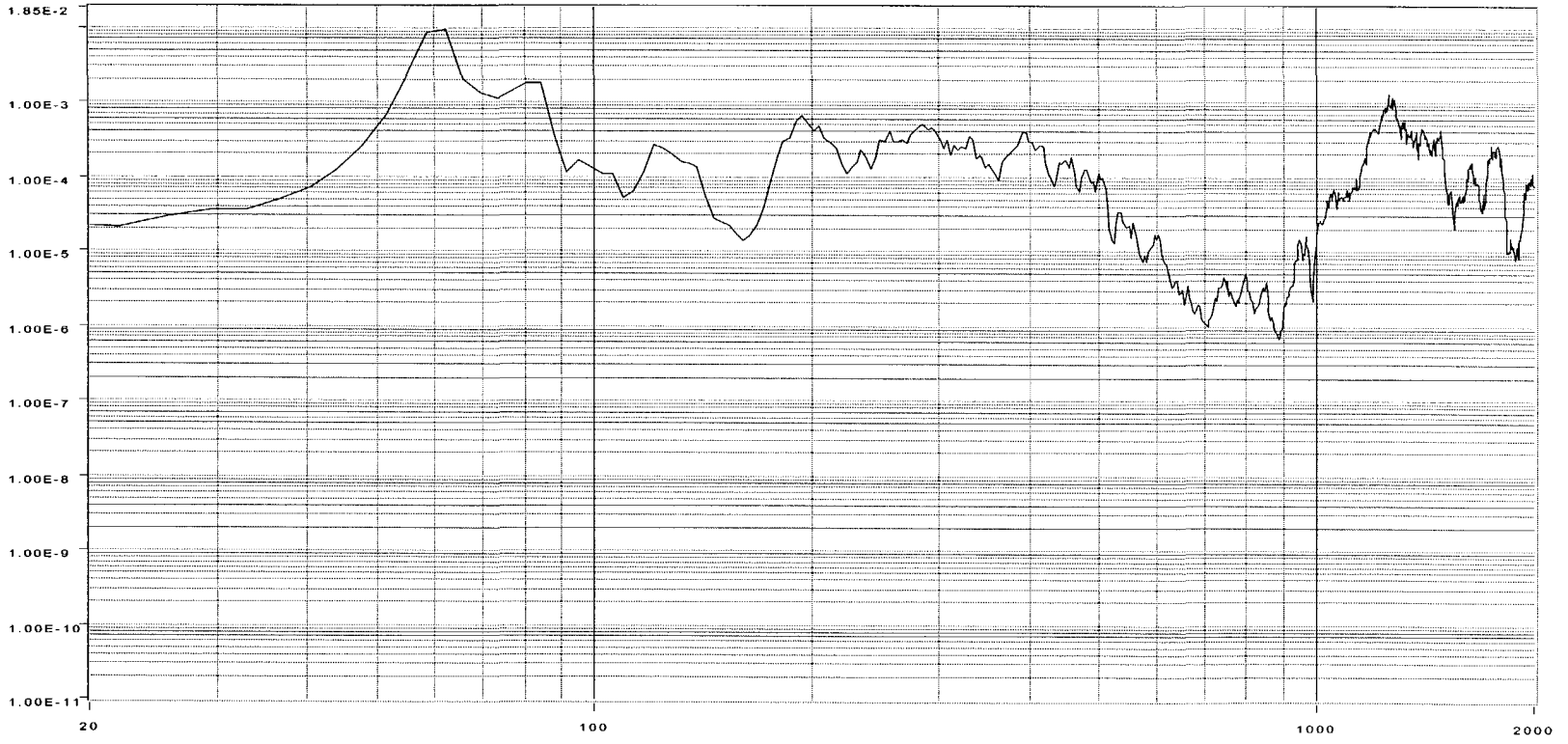
Channel #: 50 Node Number: 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 26.00

RMS= 6.352E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

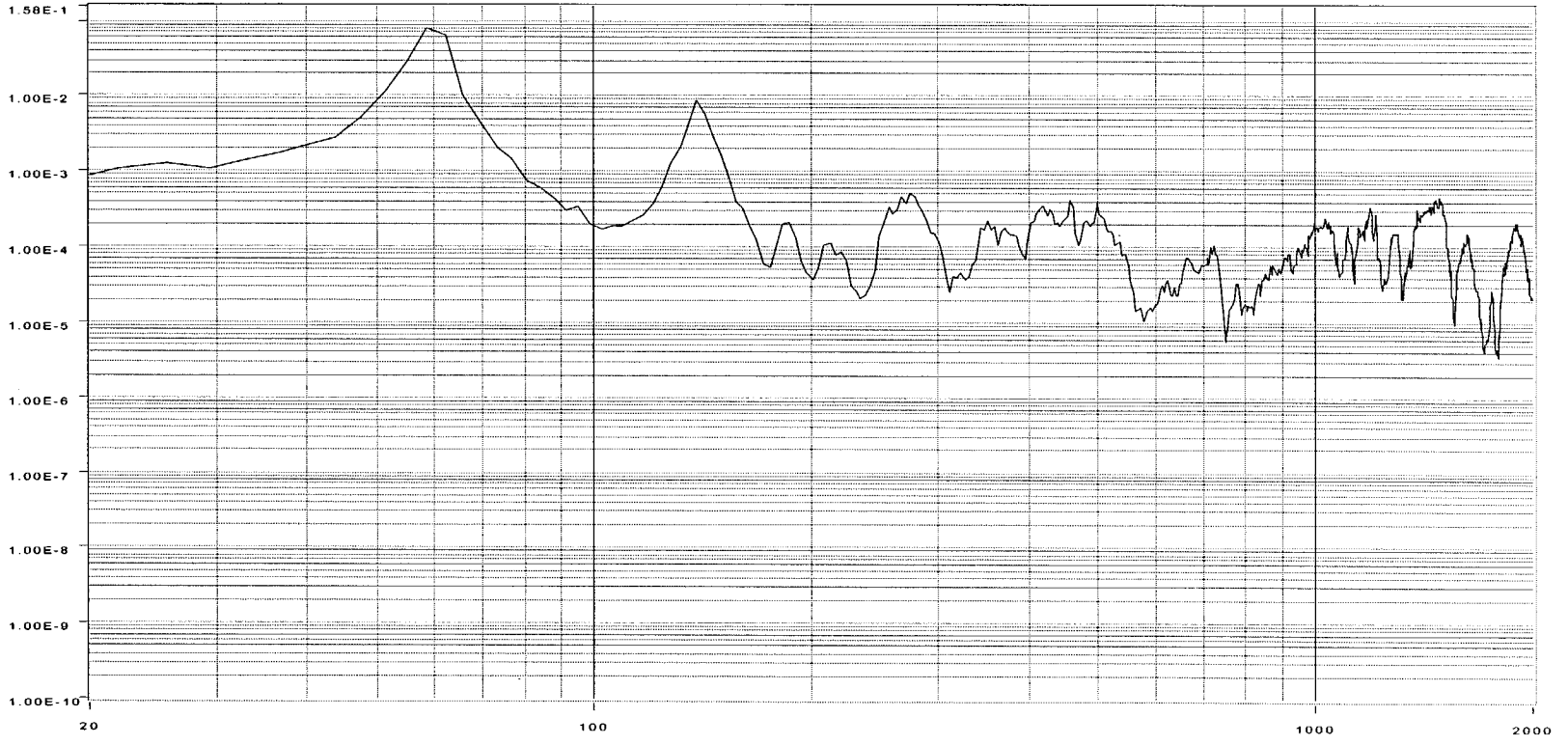
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 26.00

RMS= 1.060E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

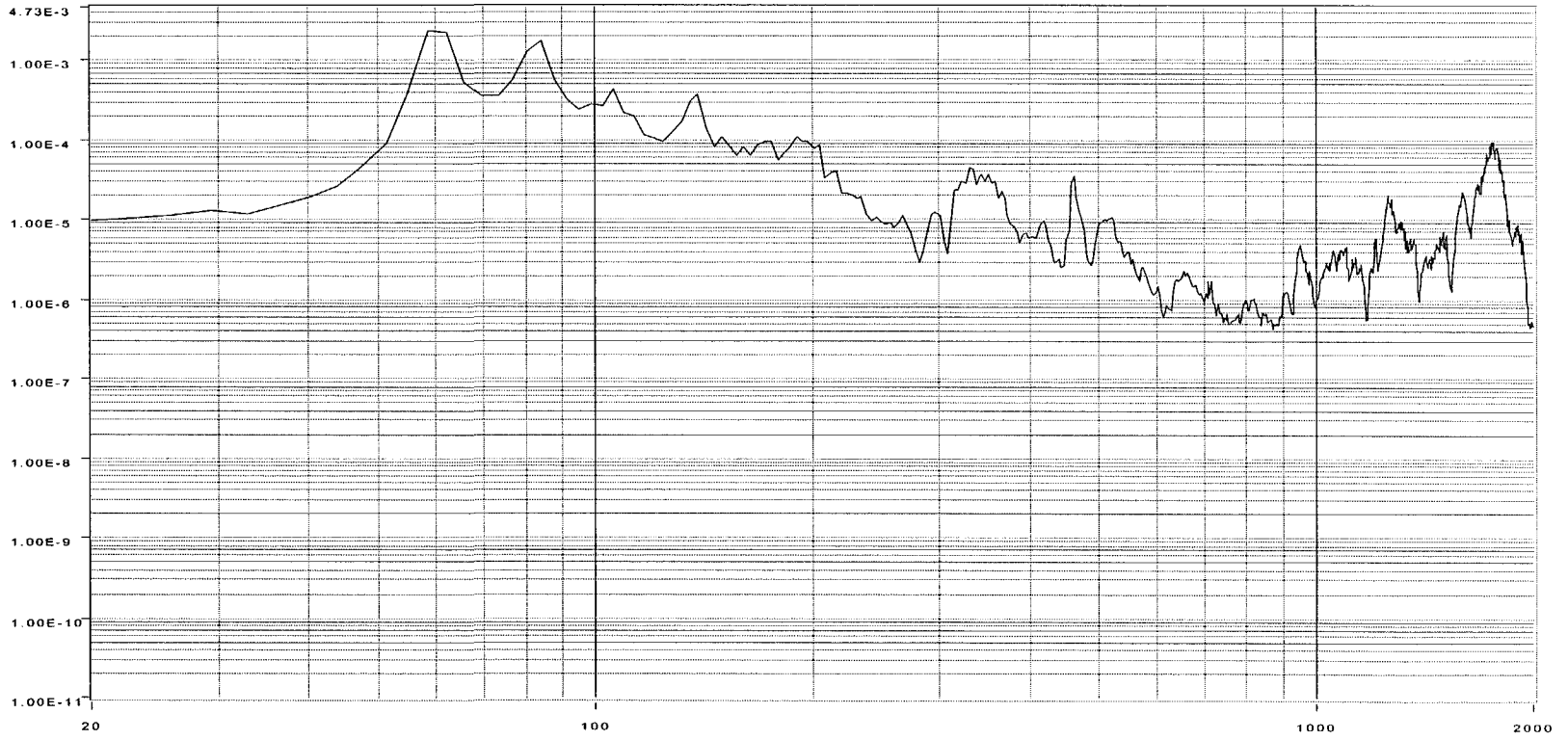
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 26.00

RMS= 2.728E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

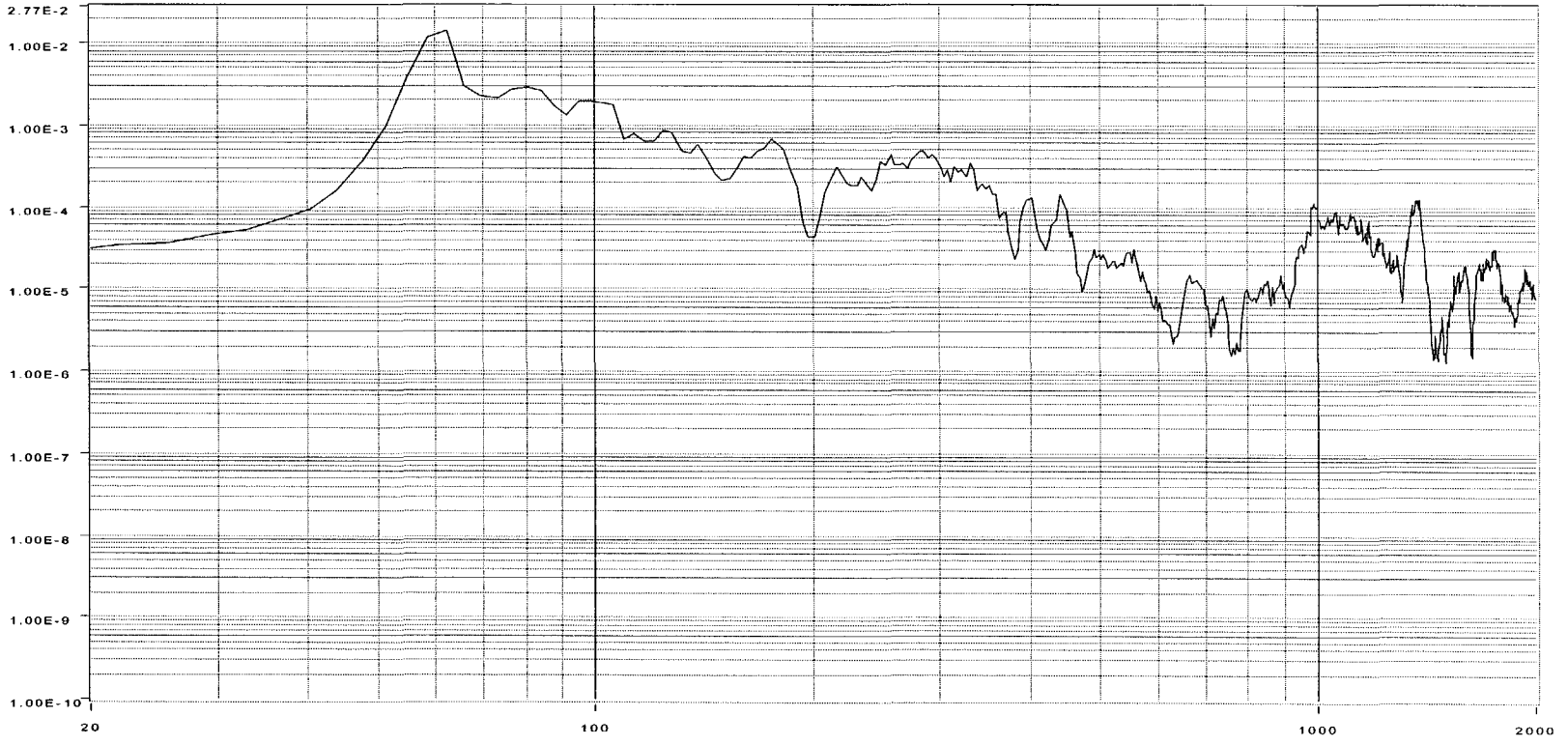
Channel #: 53 Node Number: 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 26.00

RMS= 5.830E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 2:56 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

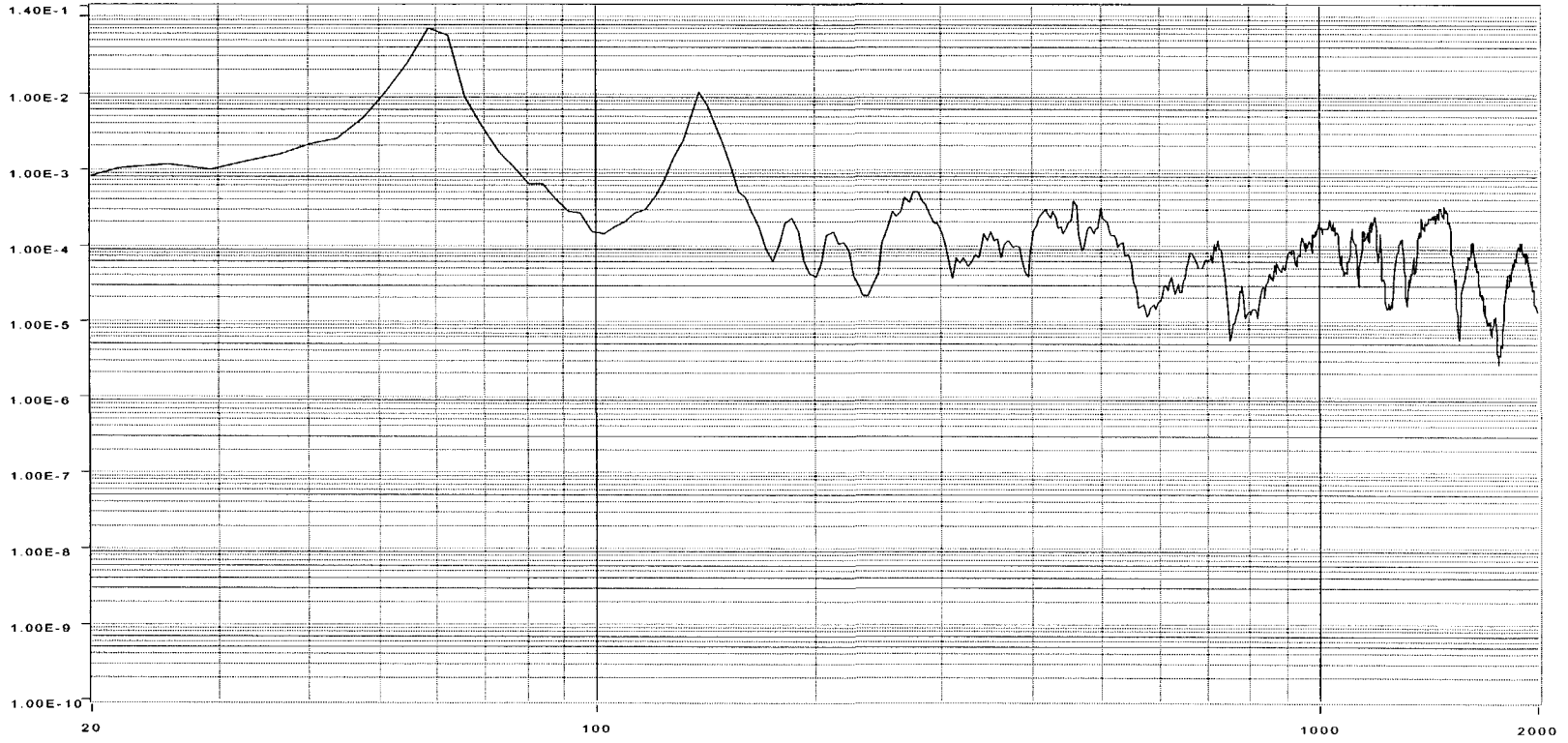
Channel #: 54 Node Number: 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 26.00

RMS= 1.008E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 2:57 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

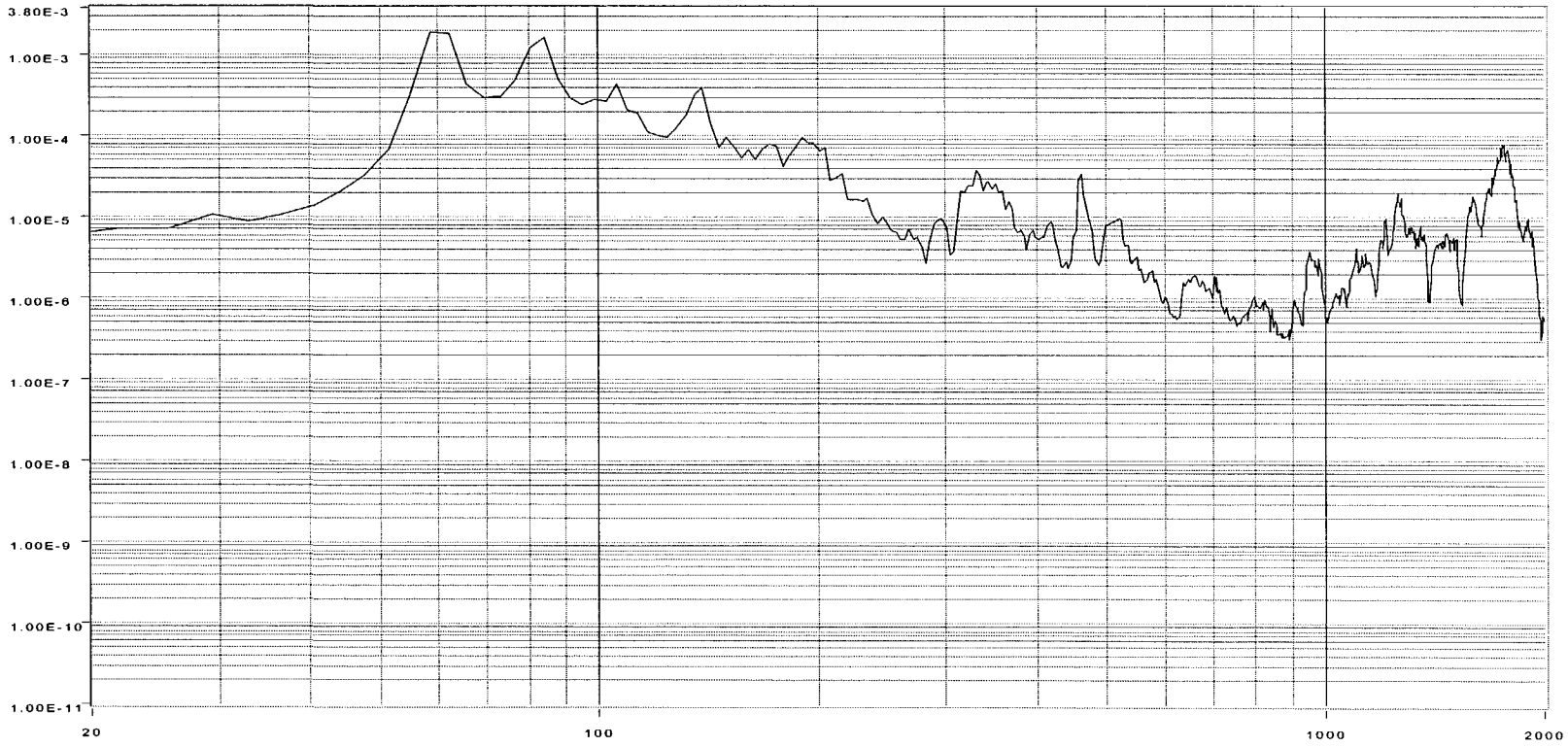
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 26.00

RMS= 2.564E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 2:57 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

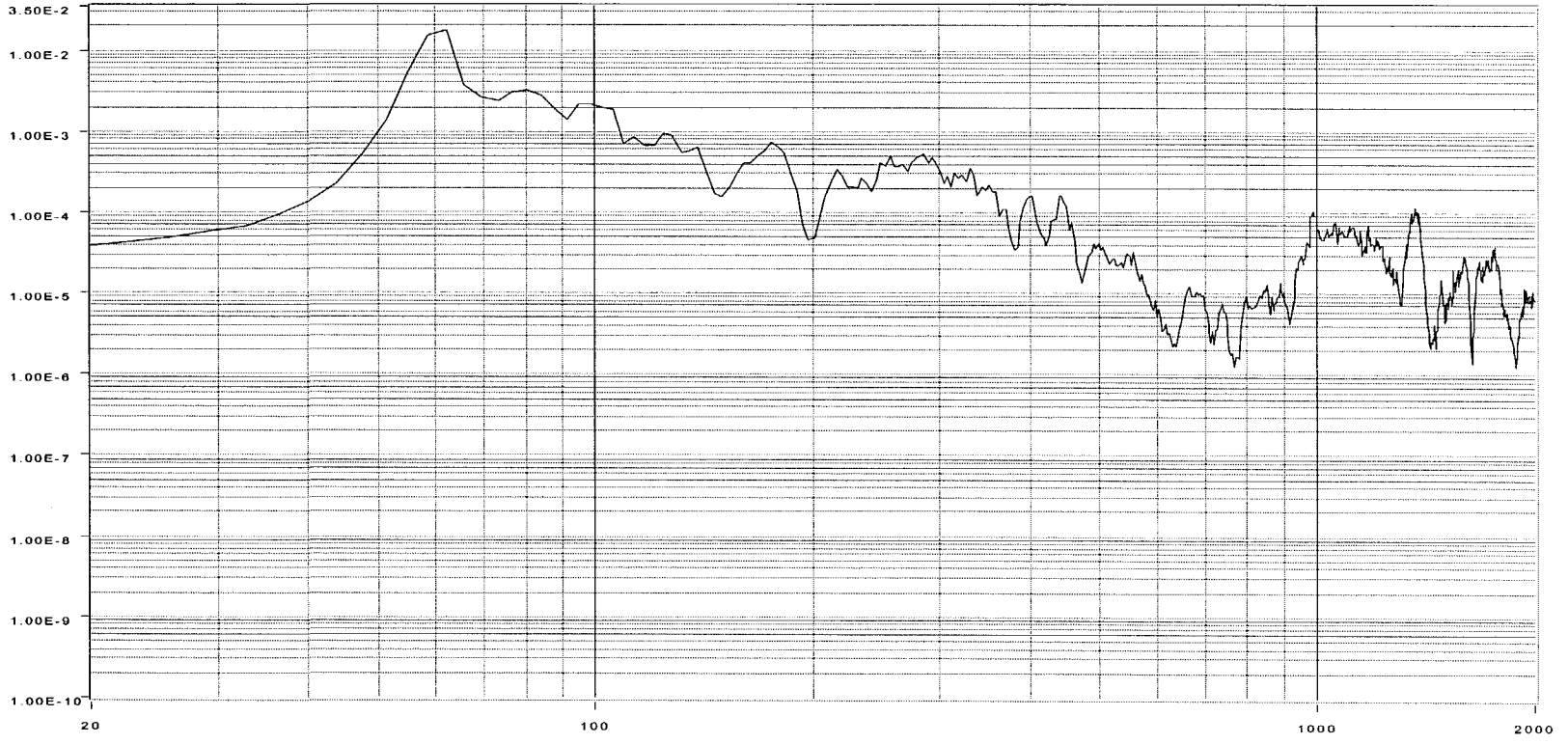
Channel #: 56 Node Number: 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 26.00

RMS= 6.252E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 2:57 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

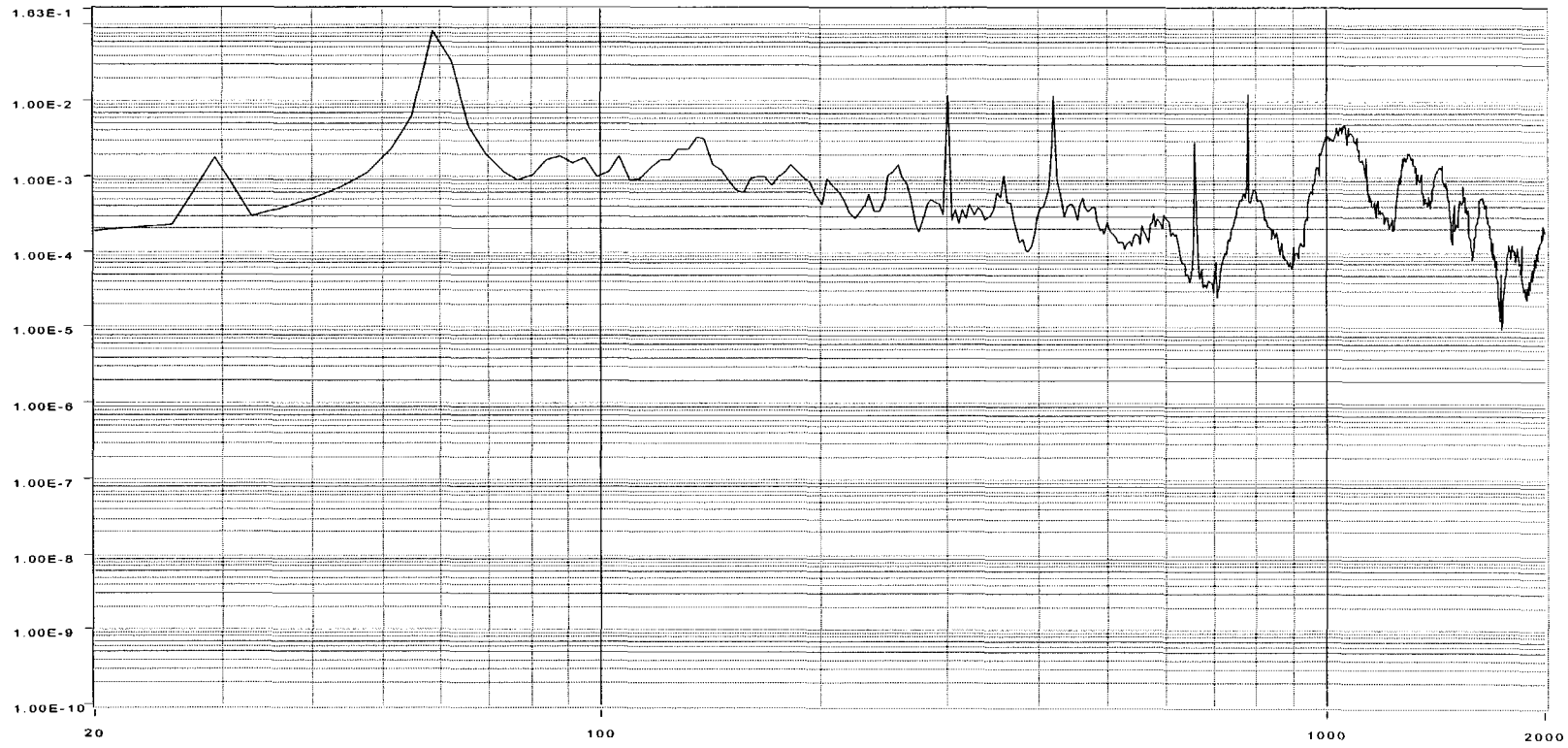
Channel #: 57 Node Number: 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 26.00

RMS= 1.385E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

Analysis Date & time: 6/24/02 2:57 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 2:43:1

Test title: HIRDLS VIBRATION TEST: X-AXIS -12db random

Specimen name: HIRDLS VIBRATION TEST: RANDOM

Test type: Random

Test file number: 062402

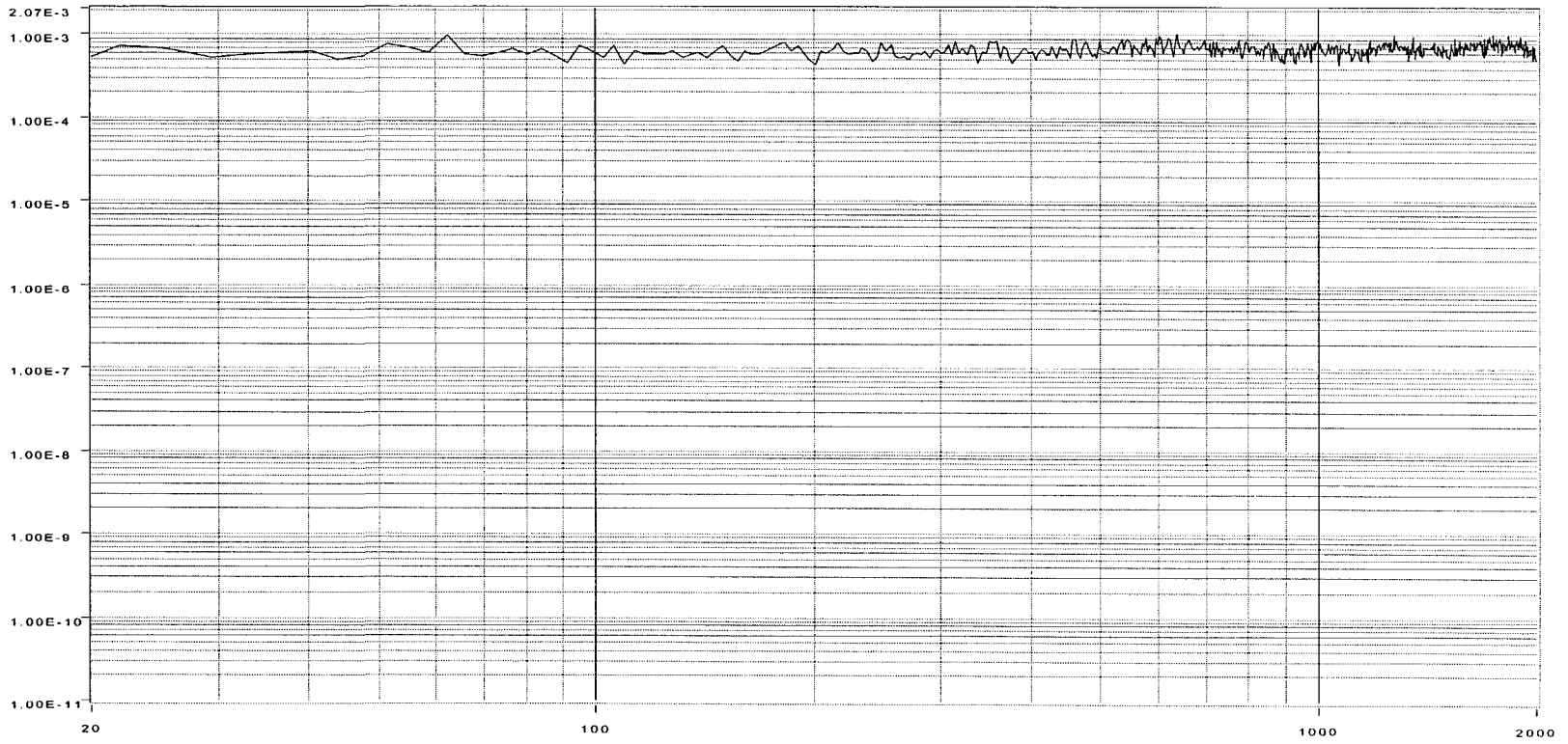
Test description: HIRDLS VIBRATION TEST: X-AXIS -12db random

Part number/id: Y4011

Average of Channels: 1 & 4

Start Time: 26.00

RMS= 1.164E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

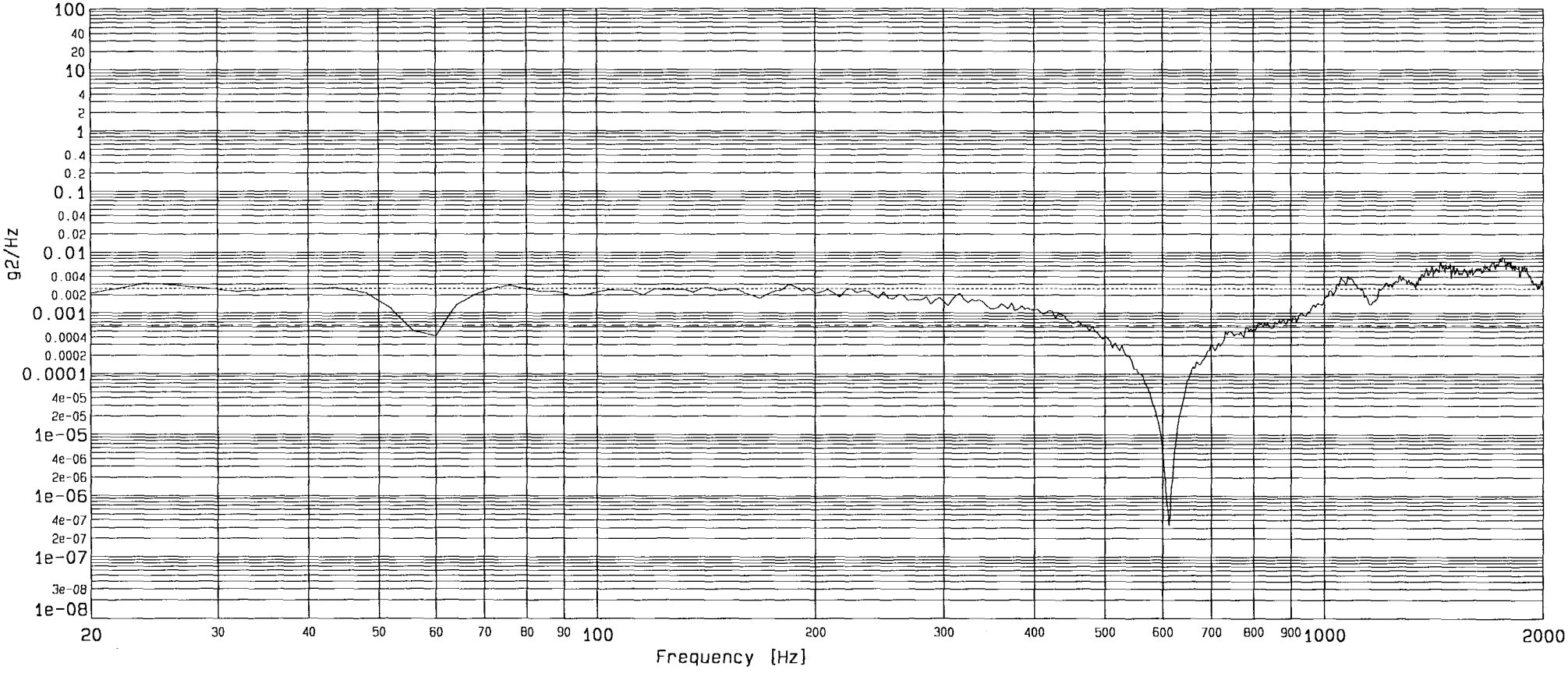
Average of Channels: 1 & 4

Analysis Date & time: 6/24/02 2:57 AM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date :	24-06-02
Test	: X_HIRDLS_RAN	Time :	03: 32: 14
Run	: 2 062403	Mode :	Random Vibration Control

Test level	: -6.00 dB	PSD Level (RMS)	: 2.32 g	Trace identification :	N_CONTROL_X
Elapsed time	: 00: 00: 30.1	Number of averages	: 69		Reference
Degrees of freedom	: 280				Upper Ab
Control strategy	: Average				Lower Ab
Frequency resolution	: 4 Hz				



HIRDLS X AXIS -6dB

run 062403

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

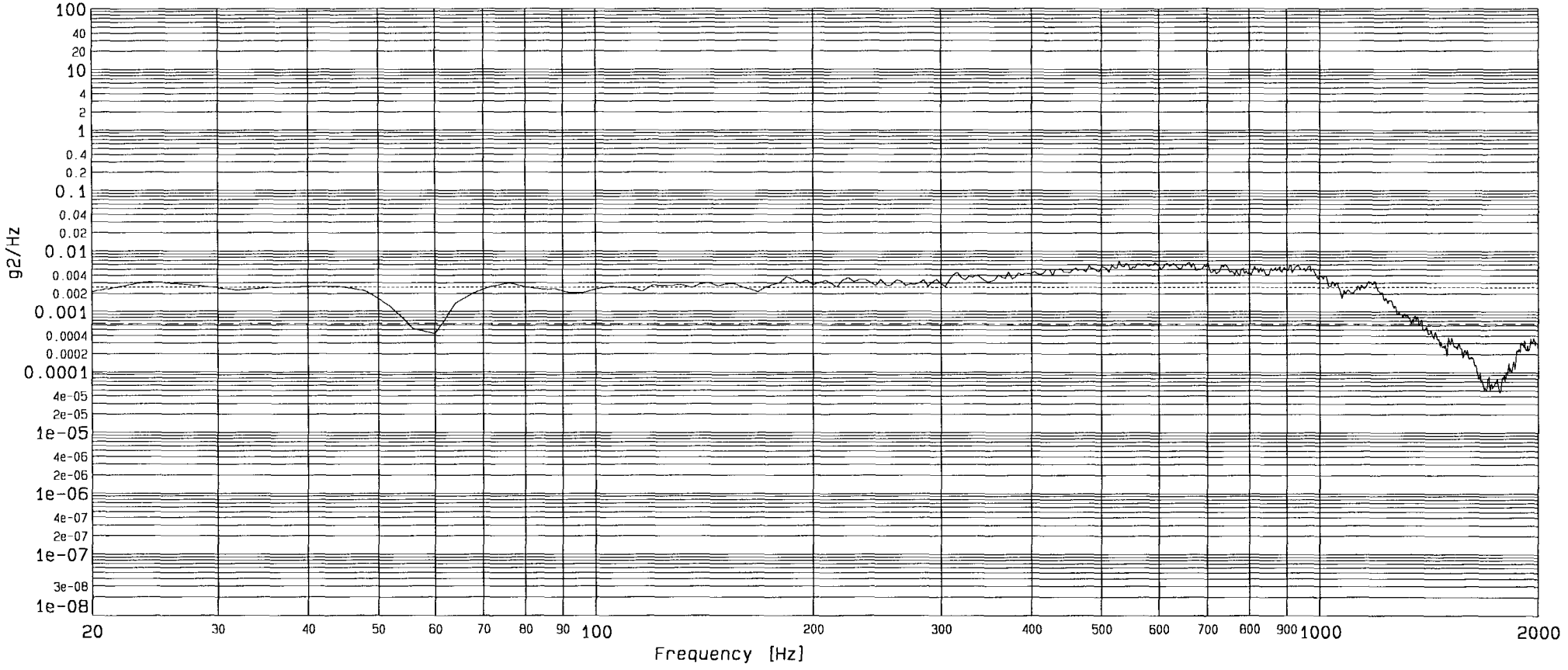
Project : hirdls
Test : X_HIRDLS_RAN
Run : 2 062403

Date : 24-06-02
Time : 03: 32: 14
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.26 g
Number of averages : 69

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -6dB

run 062403

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

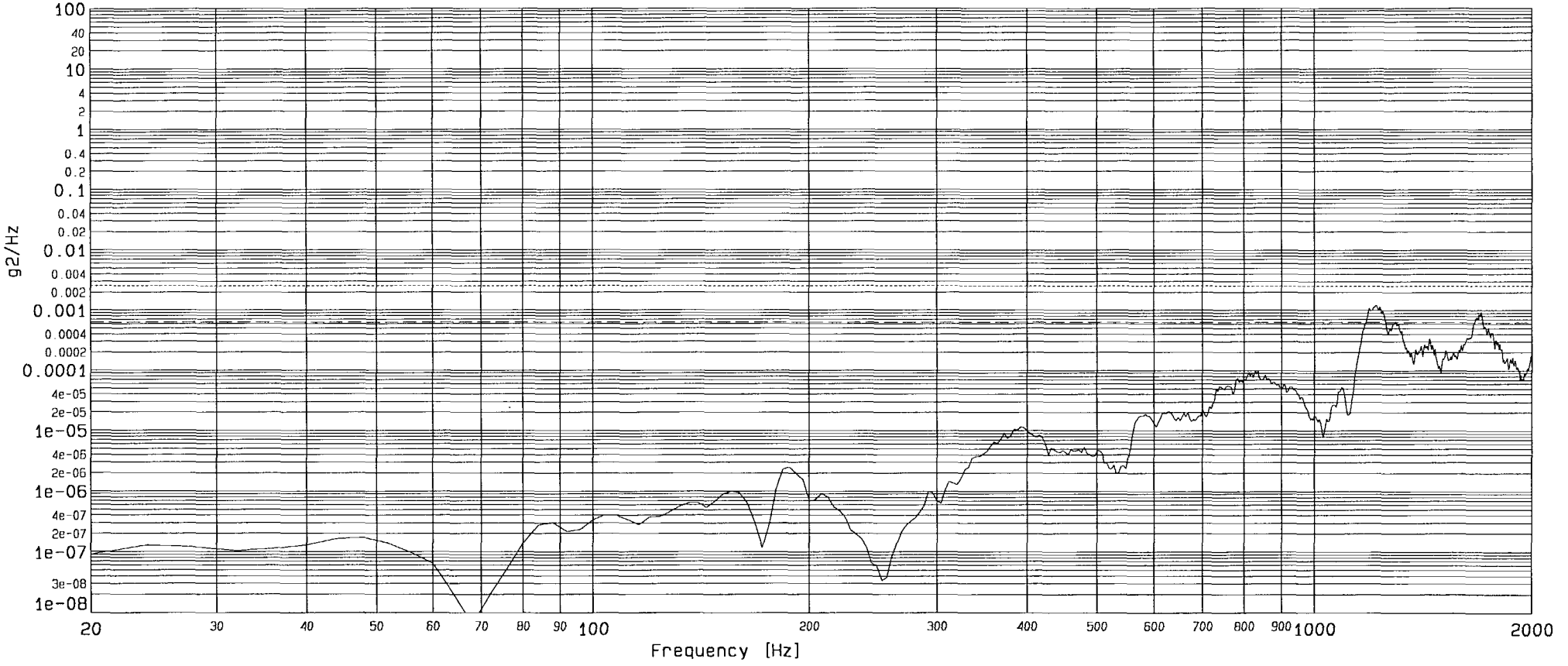
Project : hirdls
Test : X_HIRDLS_RAN
Run : 2 062403

Date : 24-06-02
Time : 03:32:14
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 566.00e-03 g
Number of averages : 69

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -6dB

run 062403

date 06-24-02

LMS

LOCKHEED MARTIN MISSILES & SPACE

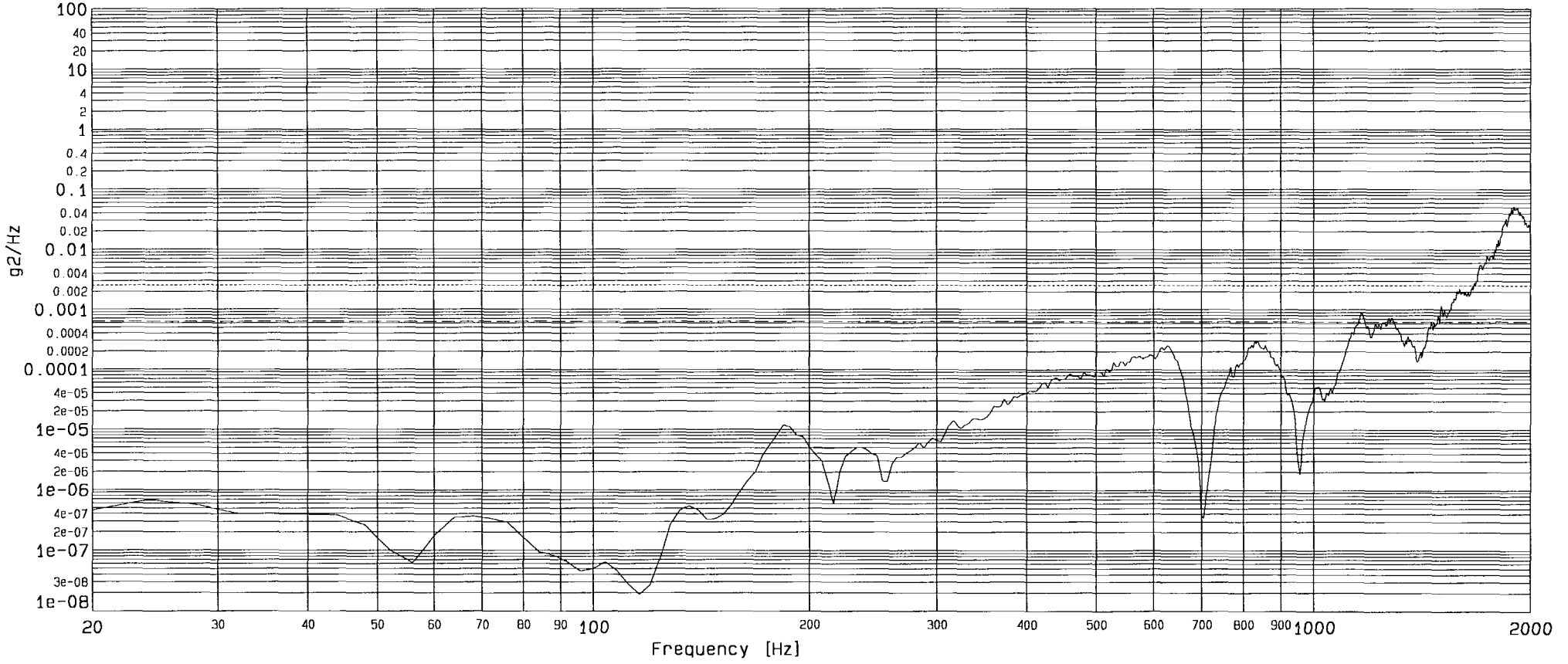
Project : hirdls
Test : X_HIRDLS_RAN
Run : 2 062403

Date : 24-06-02
Time : 03: 32: 14
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.79 g
Number of averages : 69

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -6dB

run 062403

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

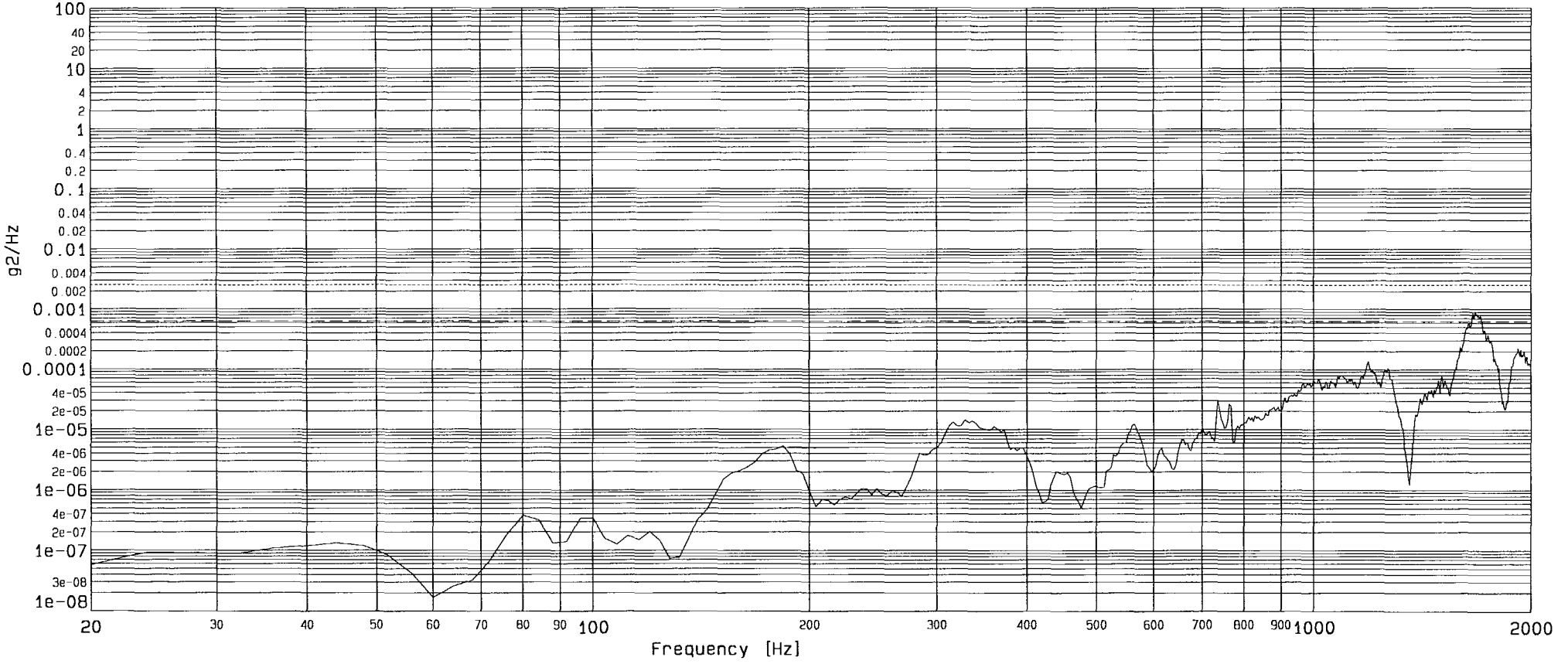
Project : hirdls
Test : X_HIRDLS_RAN
Run : 2 062403

Date : 24-06-02
Time : 03:32:14
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00:00:30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 396.98e-03 g
Number of averages : 69

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -6dB

run 062403

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

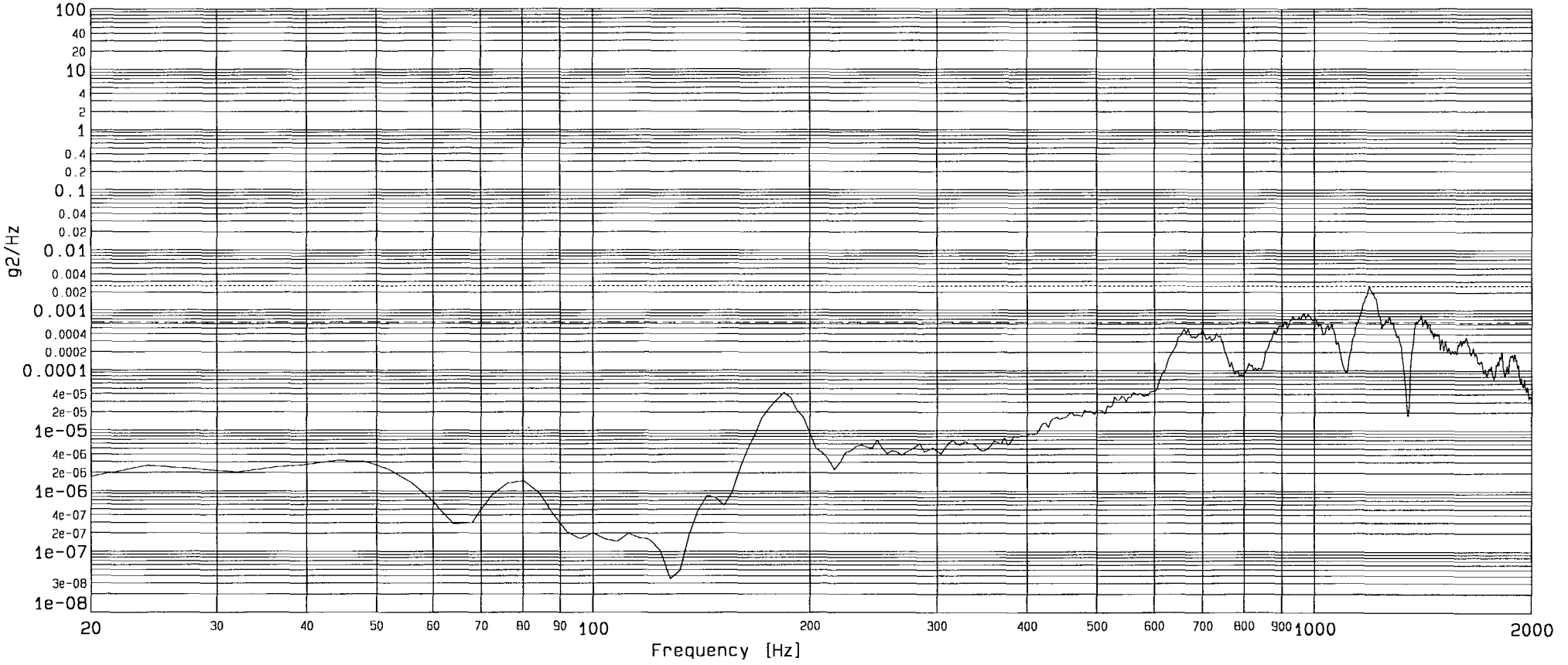
Project : hirdls
Test : X_HIRDLS_RAN
Run : 2 062403

Date : 24-06-02
Time : 03: 32: 14
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 731.13e-03 g
Number of averages : 69

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -6dB

run 062403

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

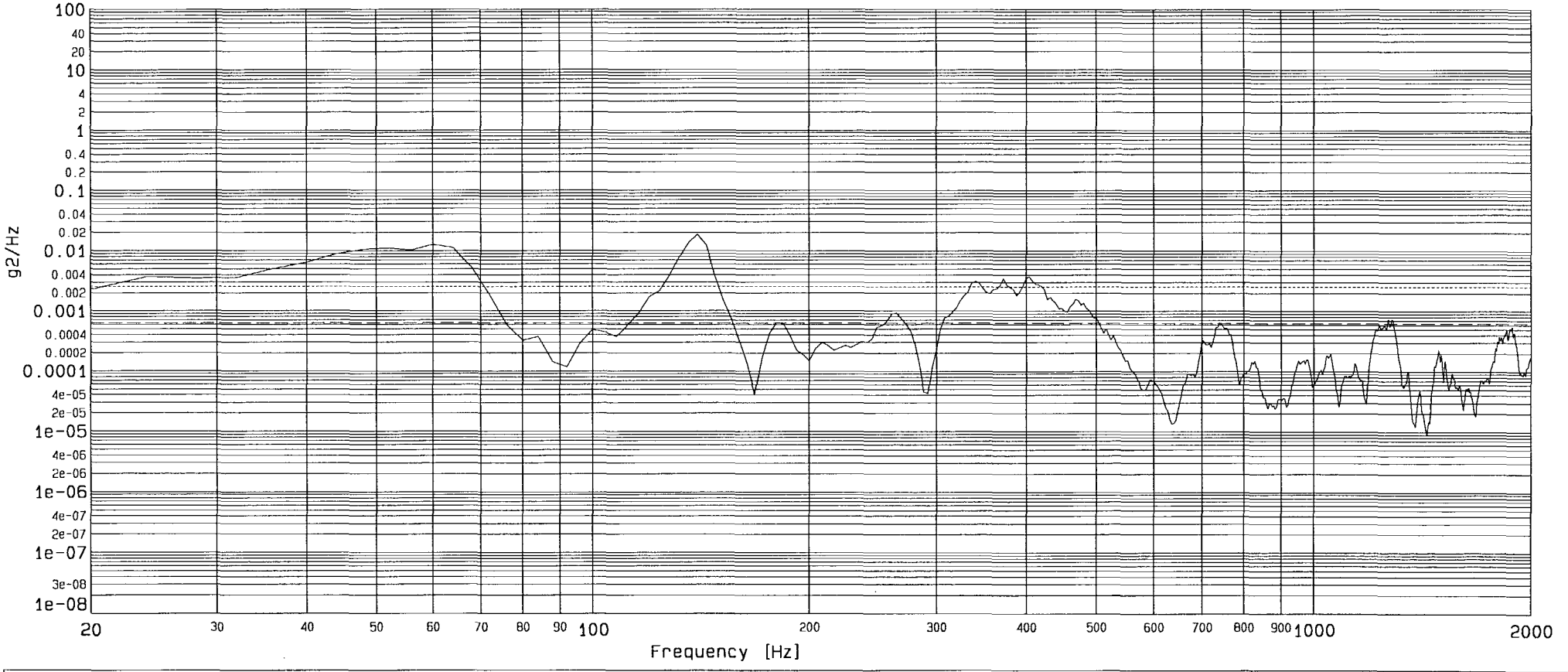
Project : hirdls
Test : X_HIRDLS_RAN
Run : 2 062403

Date : 24-06-02
Time : 03: 32: 14
Mode : Random Vibration Control

Test level : -6.00 dB
Elapsed time : 00: 00: 30.1
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 1.15 g
Number of averages : 69

Trace identification :
- A2X_YPANEL_TE
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS -6dB

run 062403

date 06-24-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

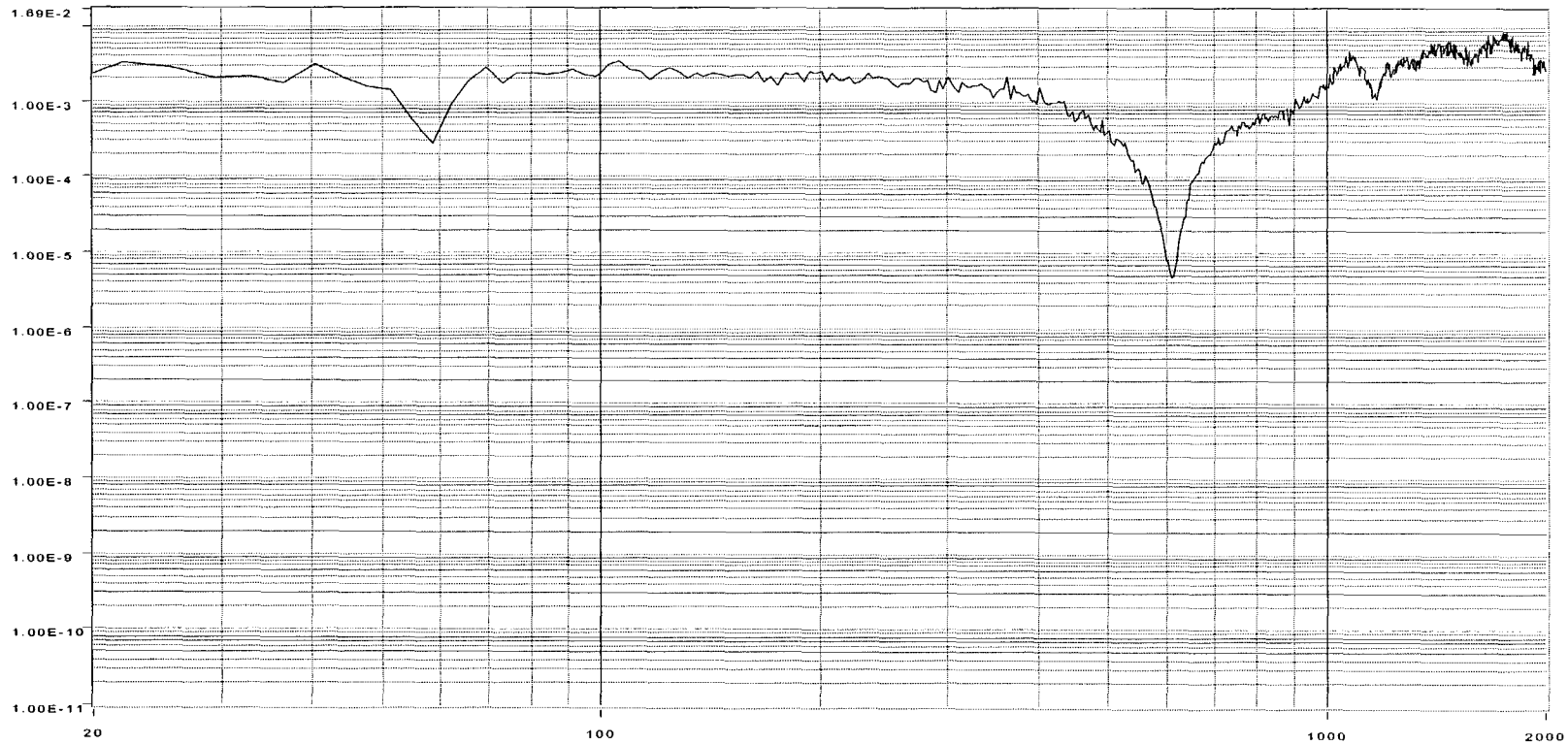
Channel #: 1 **Node Number:** 0001

Channel Label: North_Control_X

Channel Description:

Start Time: 46.00

RMS= 2.301E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_X

Analysis Date & time: 6/24/02 3:45 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

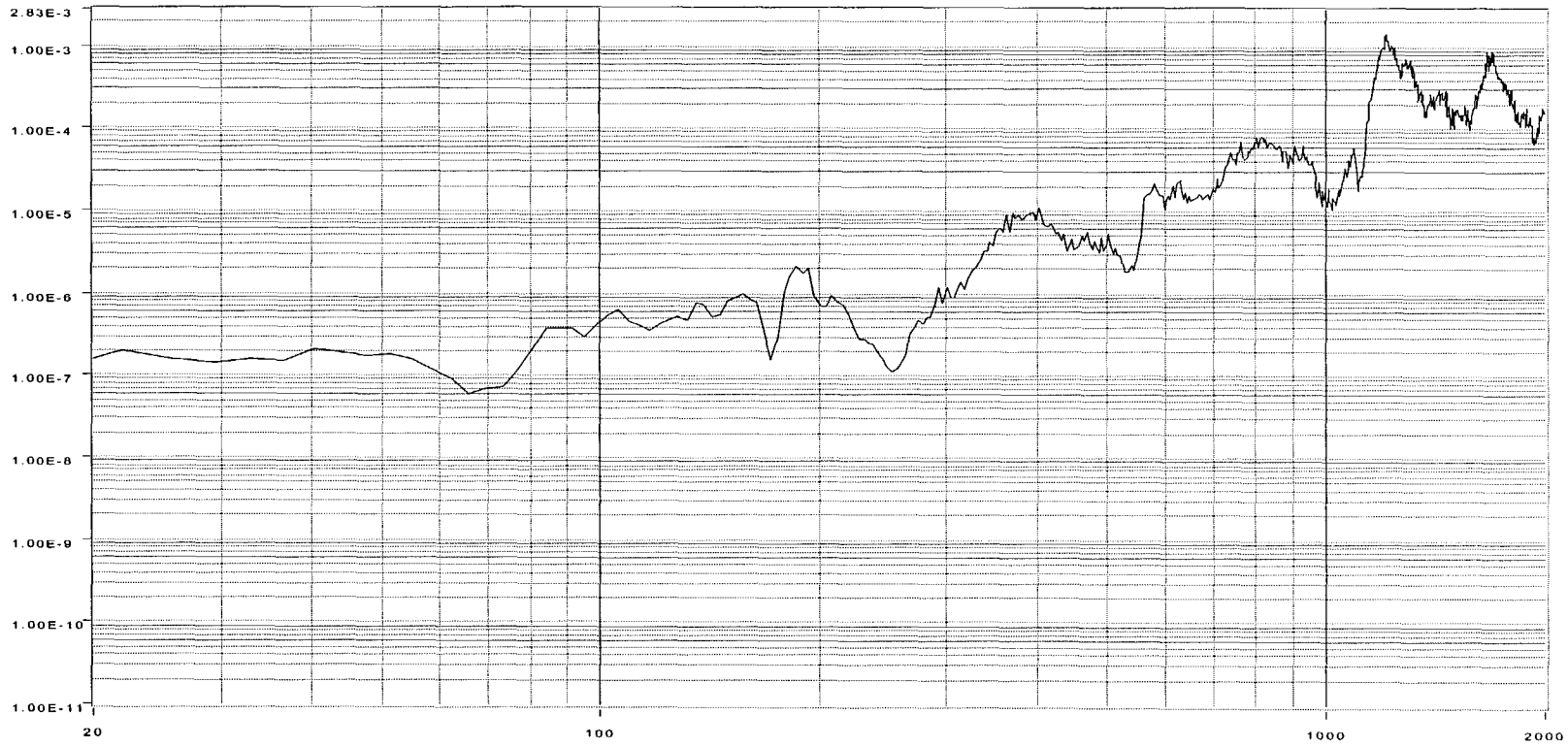
Channel #: 2 Node Number: 0002

Channel Label: North_Control_Y

Channel Description:

Start Time: 46.00

RMS= 5.580E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Y

Analysis Date & time: 6/24/02 3:45 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

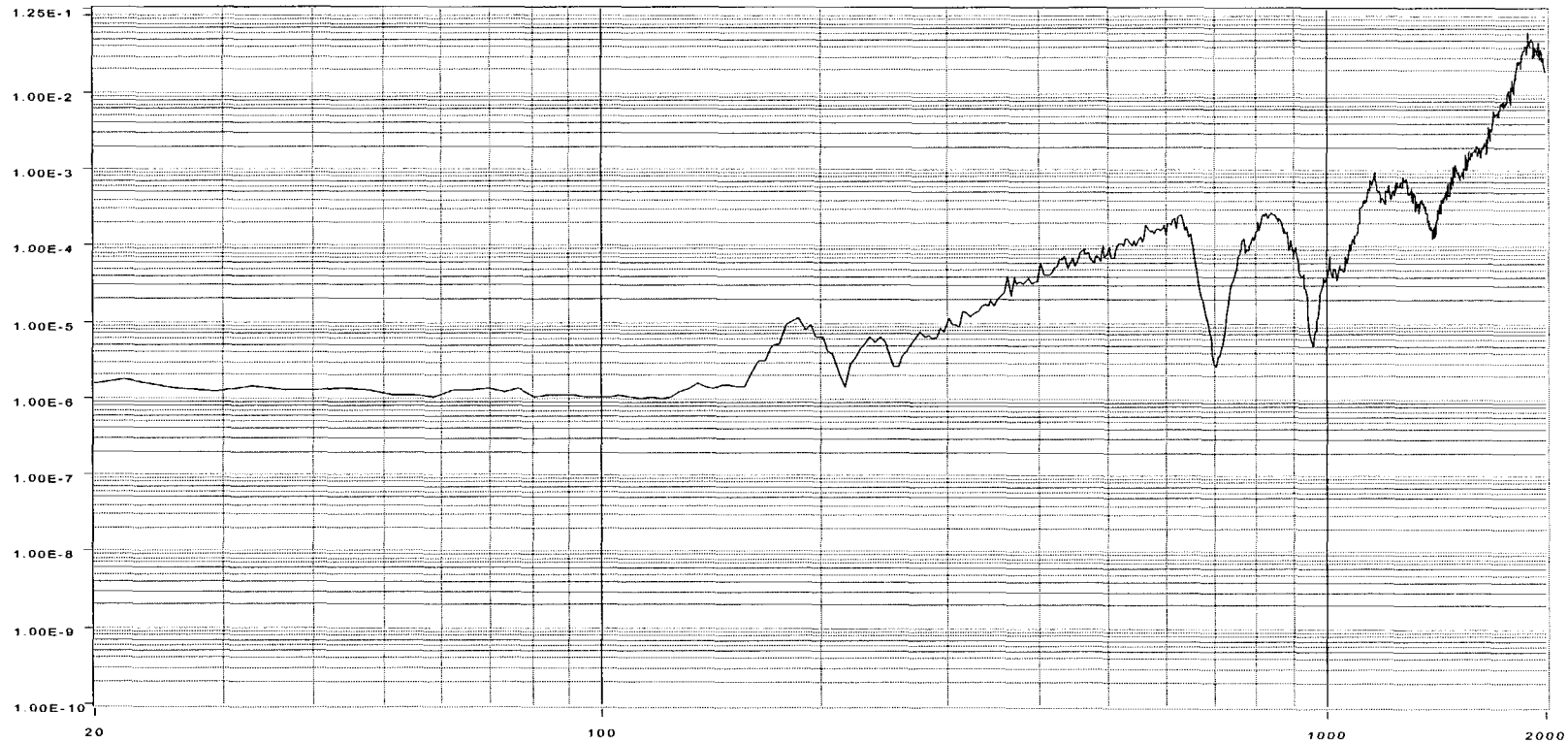
Channel #: 3 **Node Number:** 0003

Channel Label: North_Control_Z

Channel Description:

Start Time: 46.00

RMS= 2.768E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Z

Analysis Date & time: 6/24/02 3:45 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

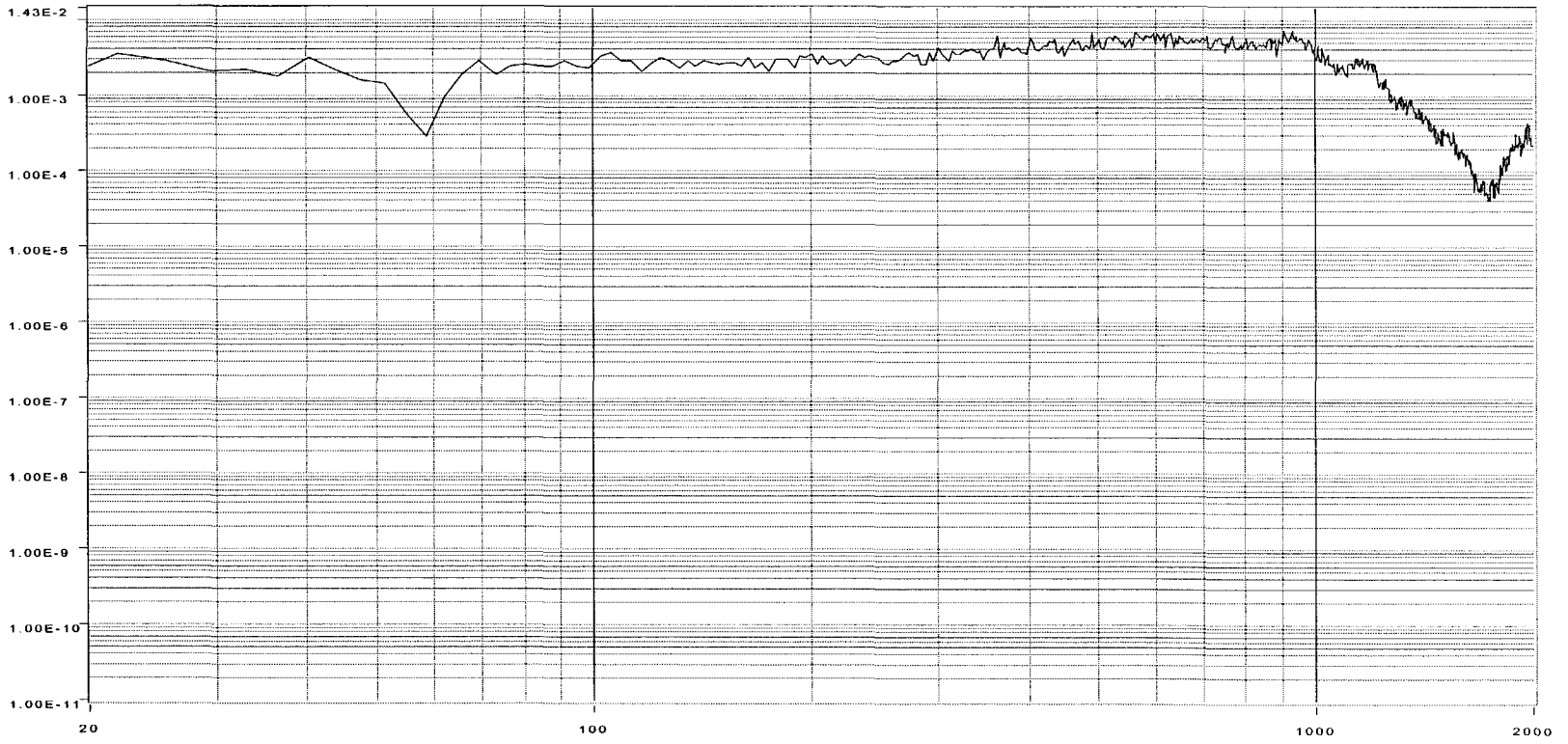
Channel #: 4 Node Number: 0004

Channel Label: South_Control_X

Channel Description: I

Start Time: 46.00

RMS= 2.254E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_X

Analysis Date & time: 6/24/02 3:45 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

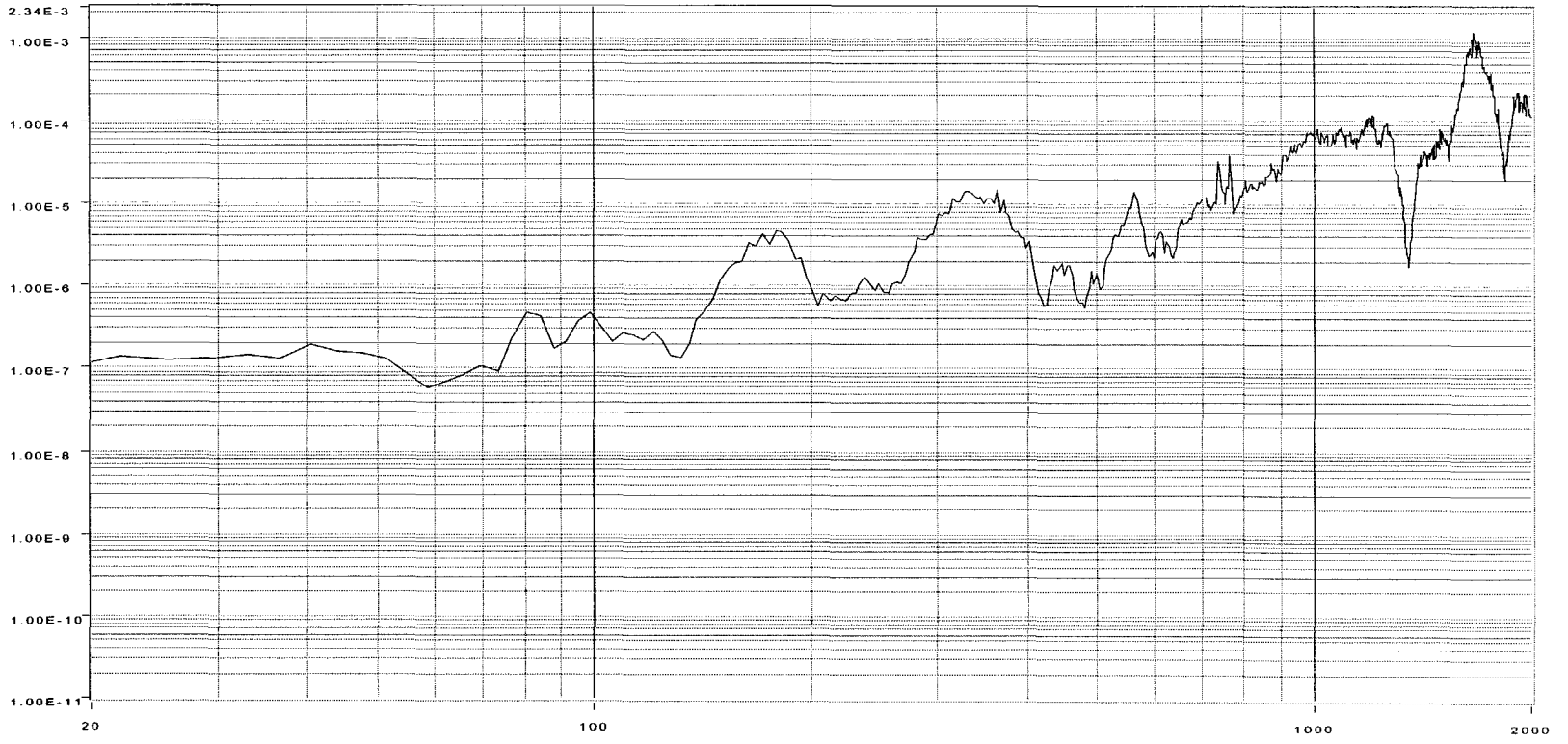
Channel #: 5 **Node Number:** 0005

Channel Label: South_Control_Y

Channel Description:

Start Time: 46.00

RMS= 4.125E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Y

Analysis Date & time: 6/24/02 3:45 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

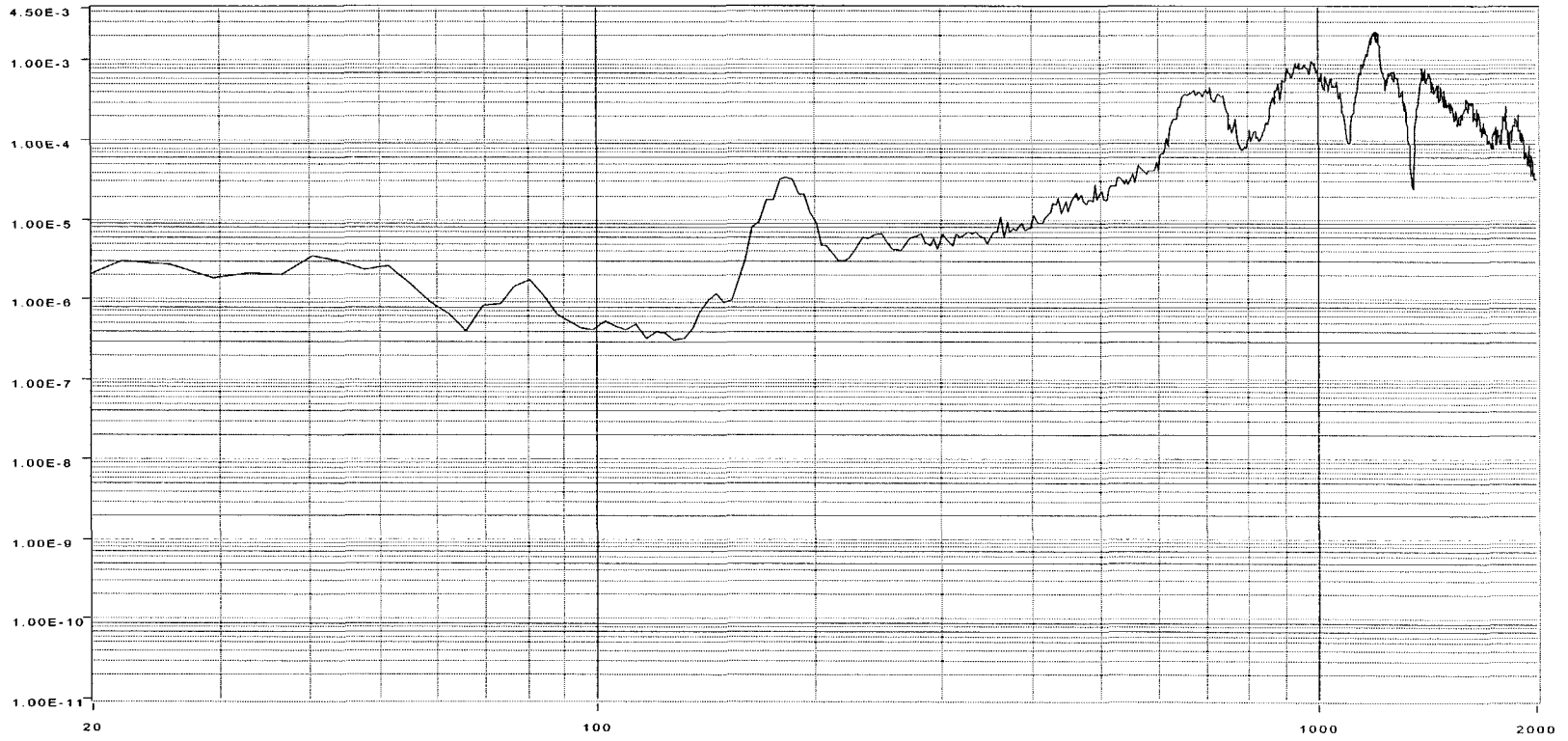
Channel #: 6 Node Number: 0006

Channel Label: South_Control_Z

Channel Description:

Start Time: 46.00

RMS= 7.265E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Z

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

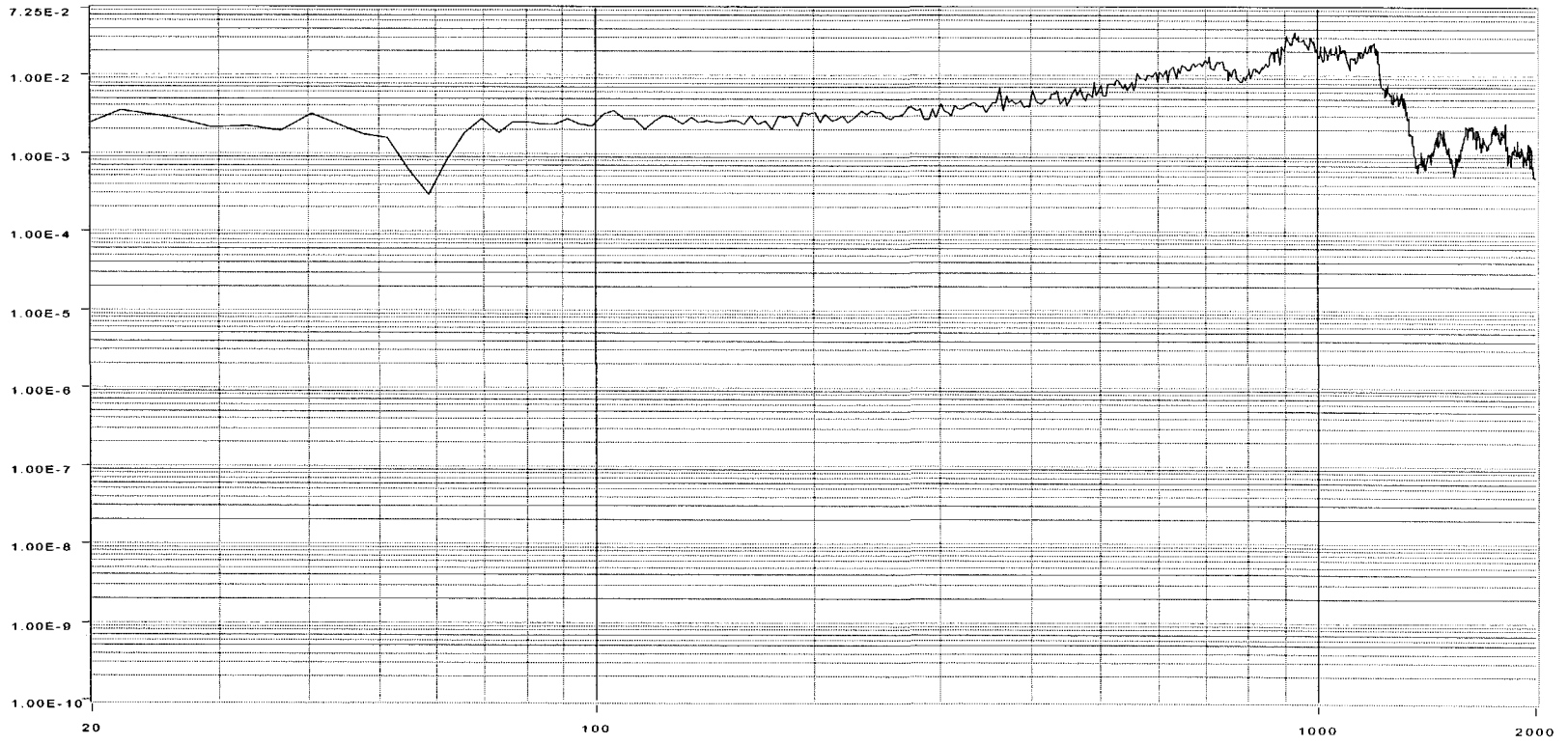
Channel #: 7 Node Number: 0007

Channel Label: A5 X

Channel Description:

Start Time: 46.00

RMS= 3.851E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

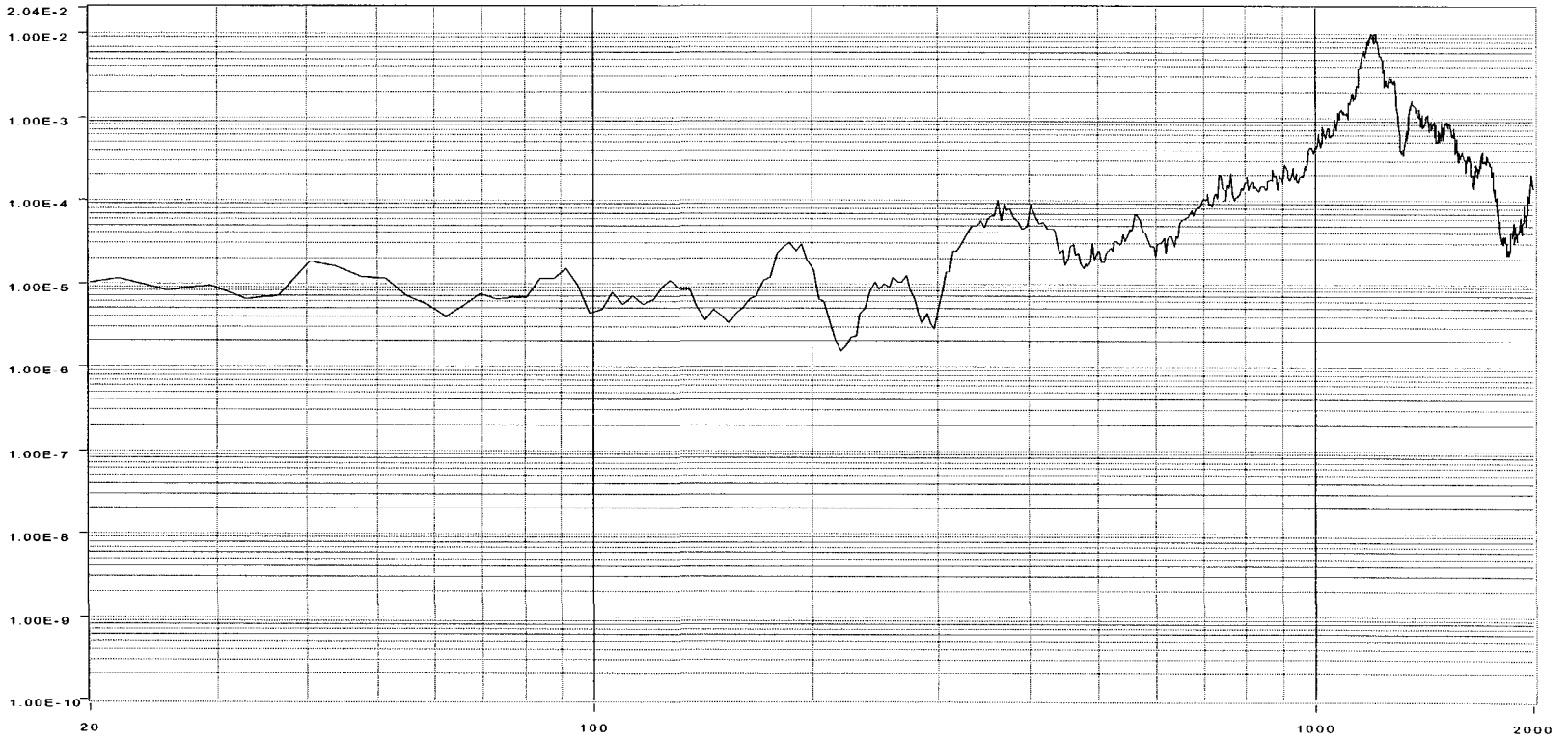
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 46.00

RMS= 1.139E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

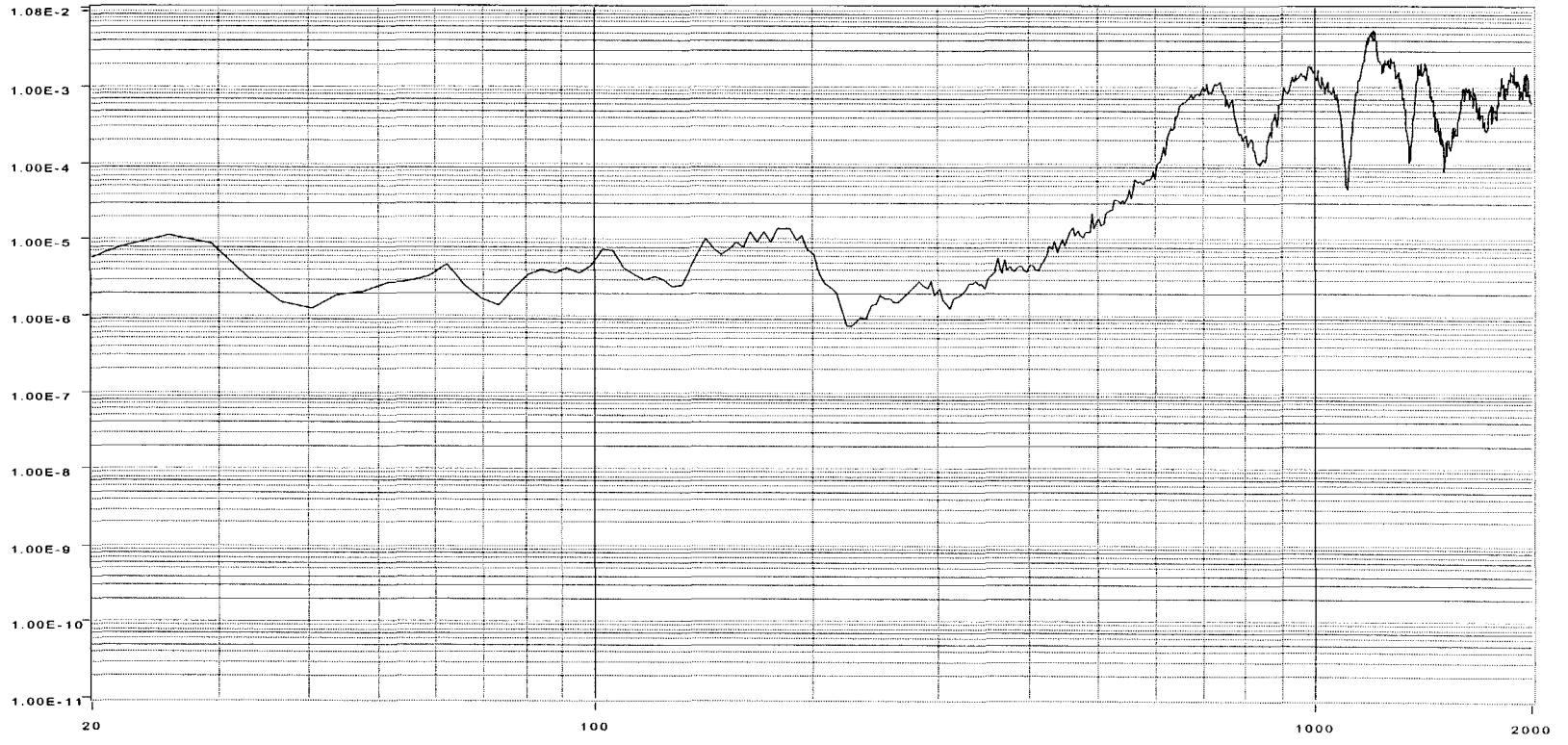
Channel #: 9 Node Number: 0009

Channel Label: A5 Z

Channel Description:

Start Time: 46.00

RMS= 1.146E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Z

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

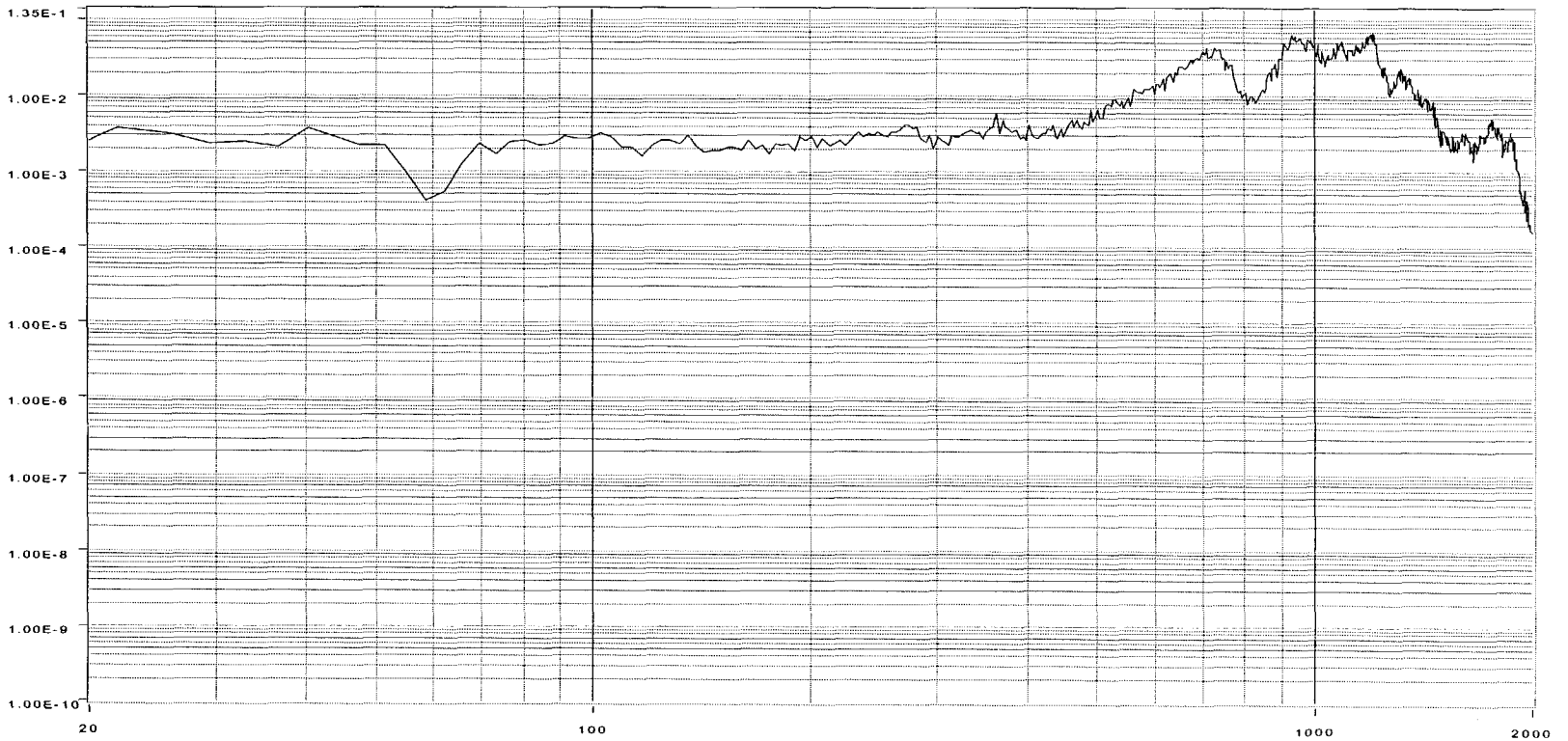
Channel #: 10 Node Number: 0010

Channel Label: A6 X

Channel Description:

Start Time: 46.00

RMS= 5.287E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

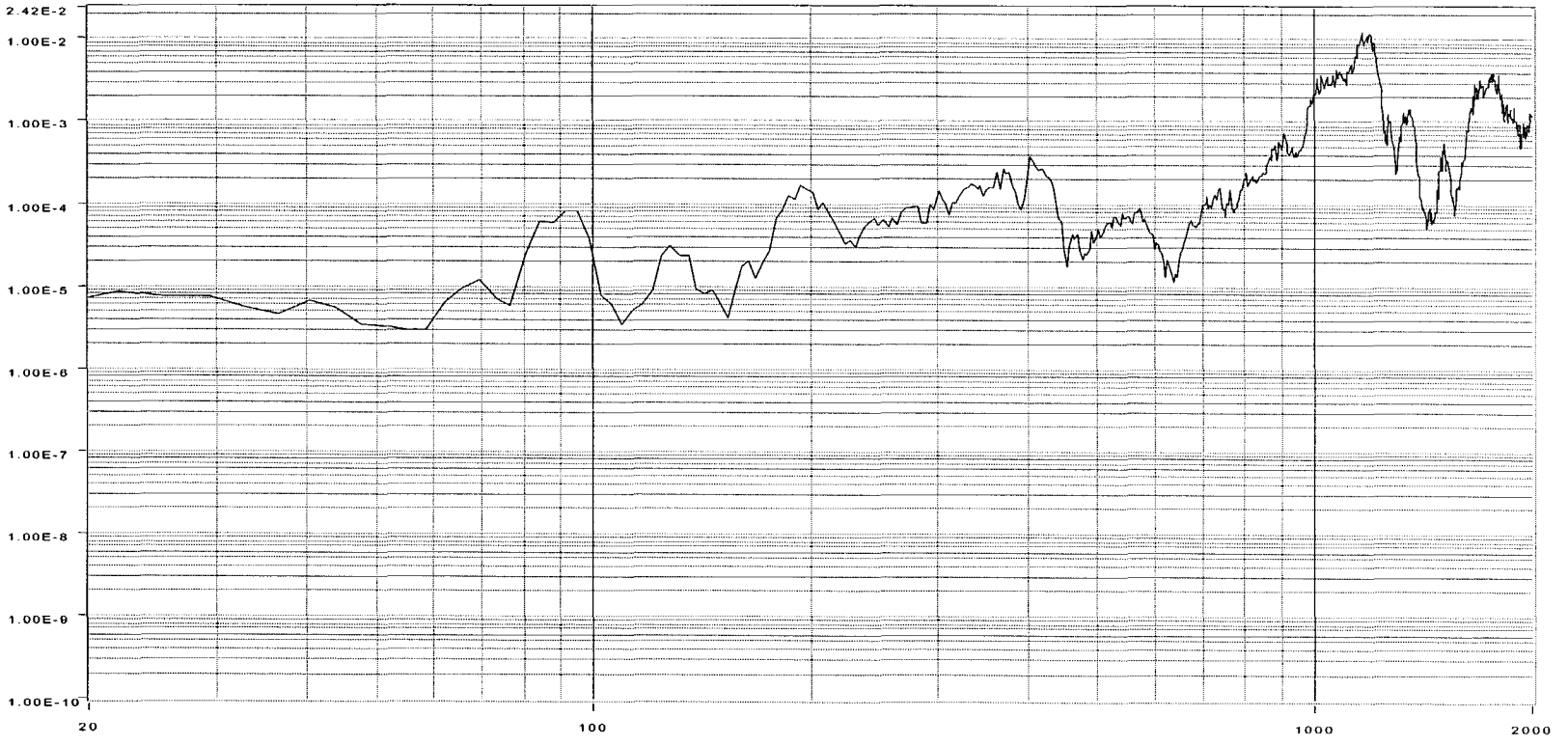
Channel #: 11 Node Number: 0011

Channel Label: A6 Y

Channel Description:

Start Time: 46.00

RMS= 1.506E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

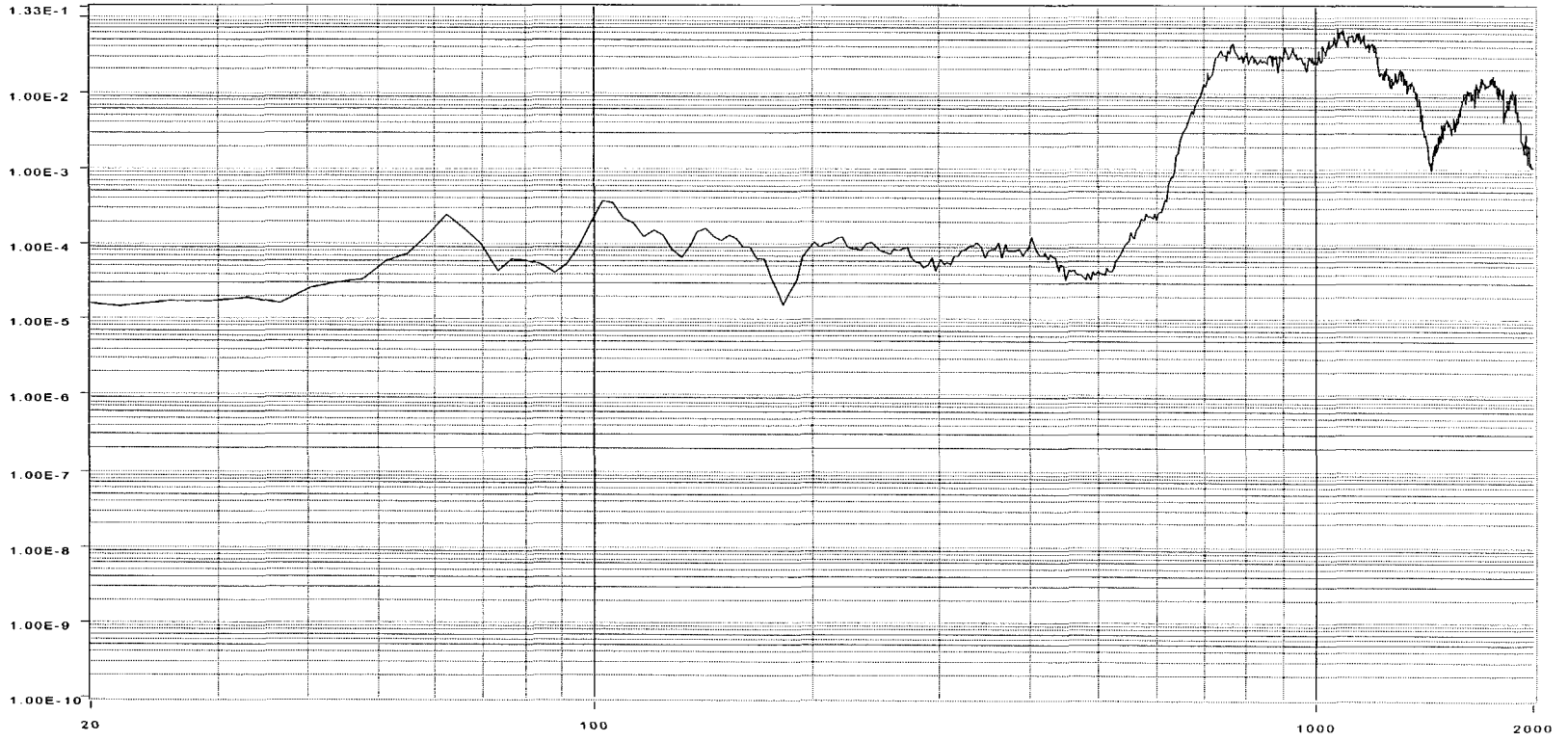
Channel #: 12 Node Number: 0012

Channel Label: A6 Z

Channel Description:

Start Time: 46.00

RMS= 5.026E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

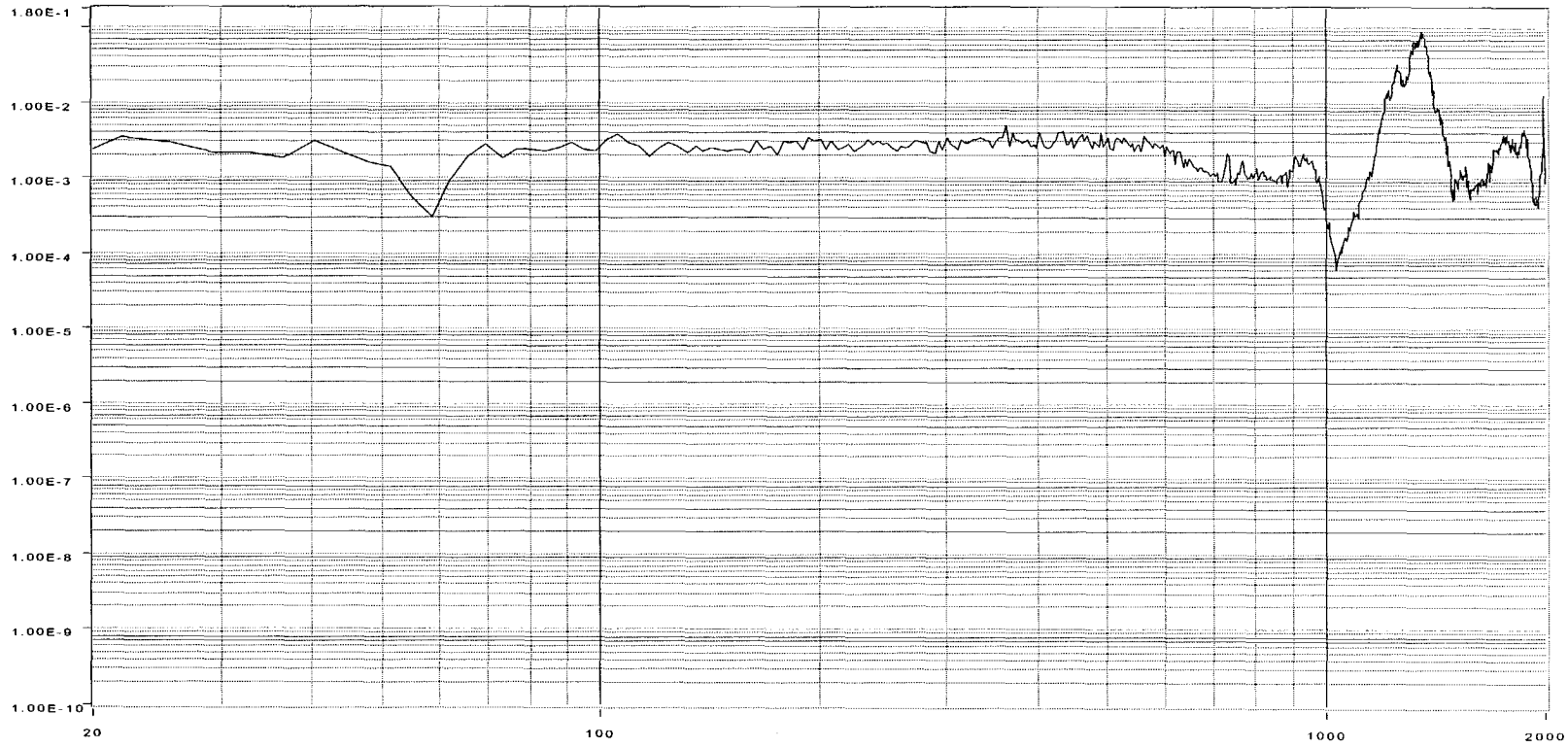
Channel #: 17 Node Number: 0017

Channel Label: A7 X

Channel Description:

Start Time: 46.00

RMS= 3.334E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

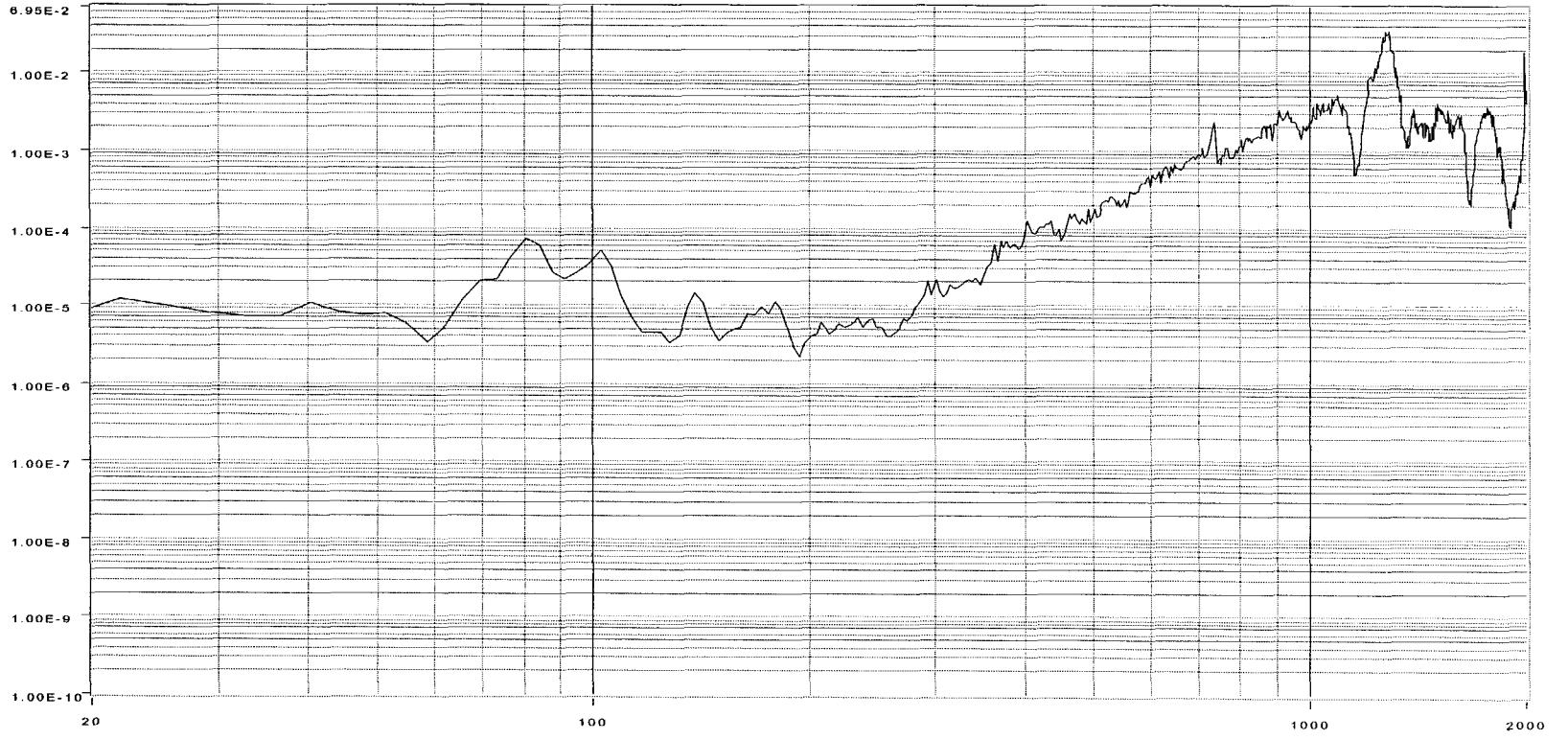
Channel #: 18 Node Number: 0018

Channel Label: A7 Y

Channel Description:

Start Time: 46.00

RMS= 2.139E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

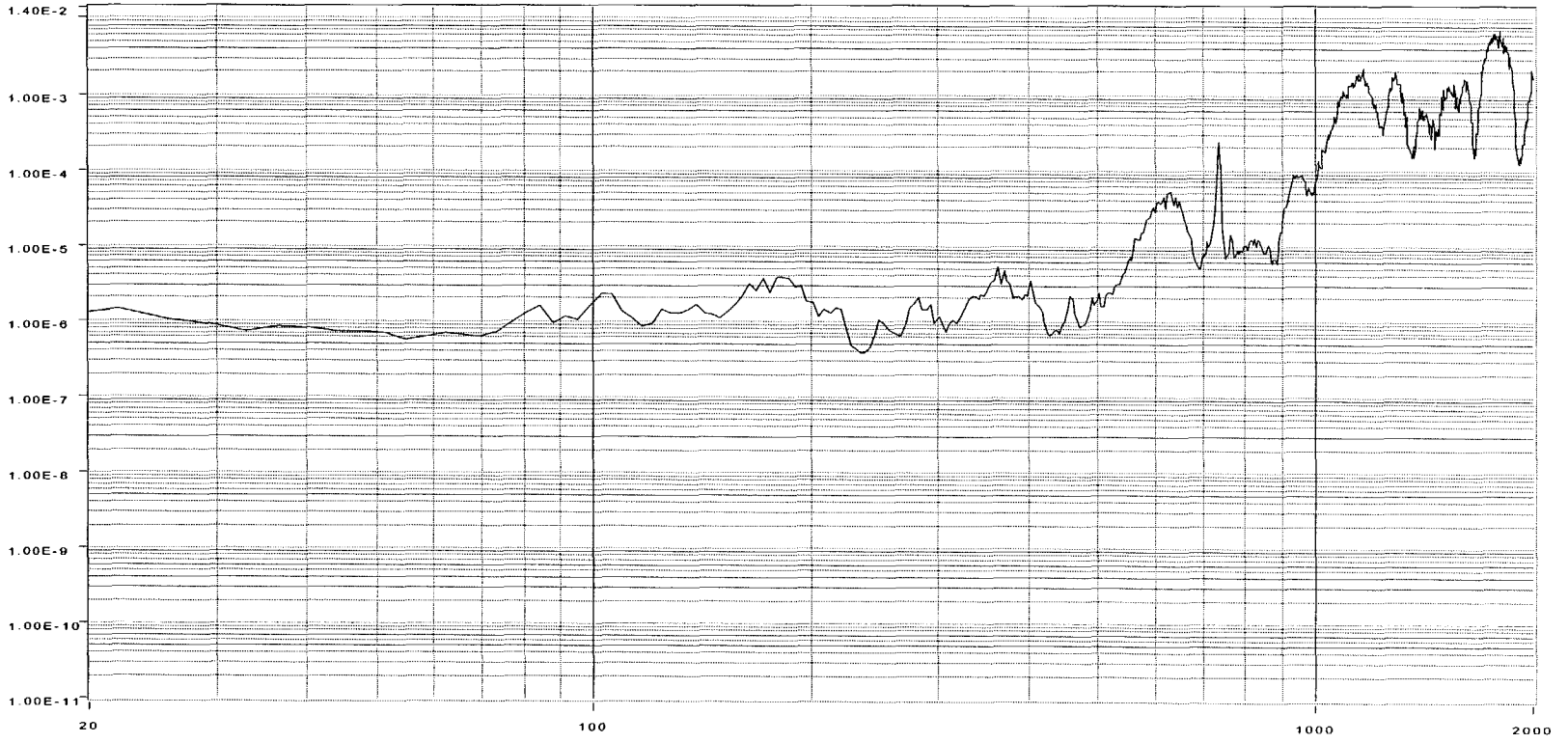
Channel #: 19 Node Number: 0019

Channel Label: A7 Z

Channel Description:

Start Time: 46.00

RMS= 1.181E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

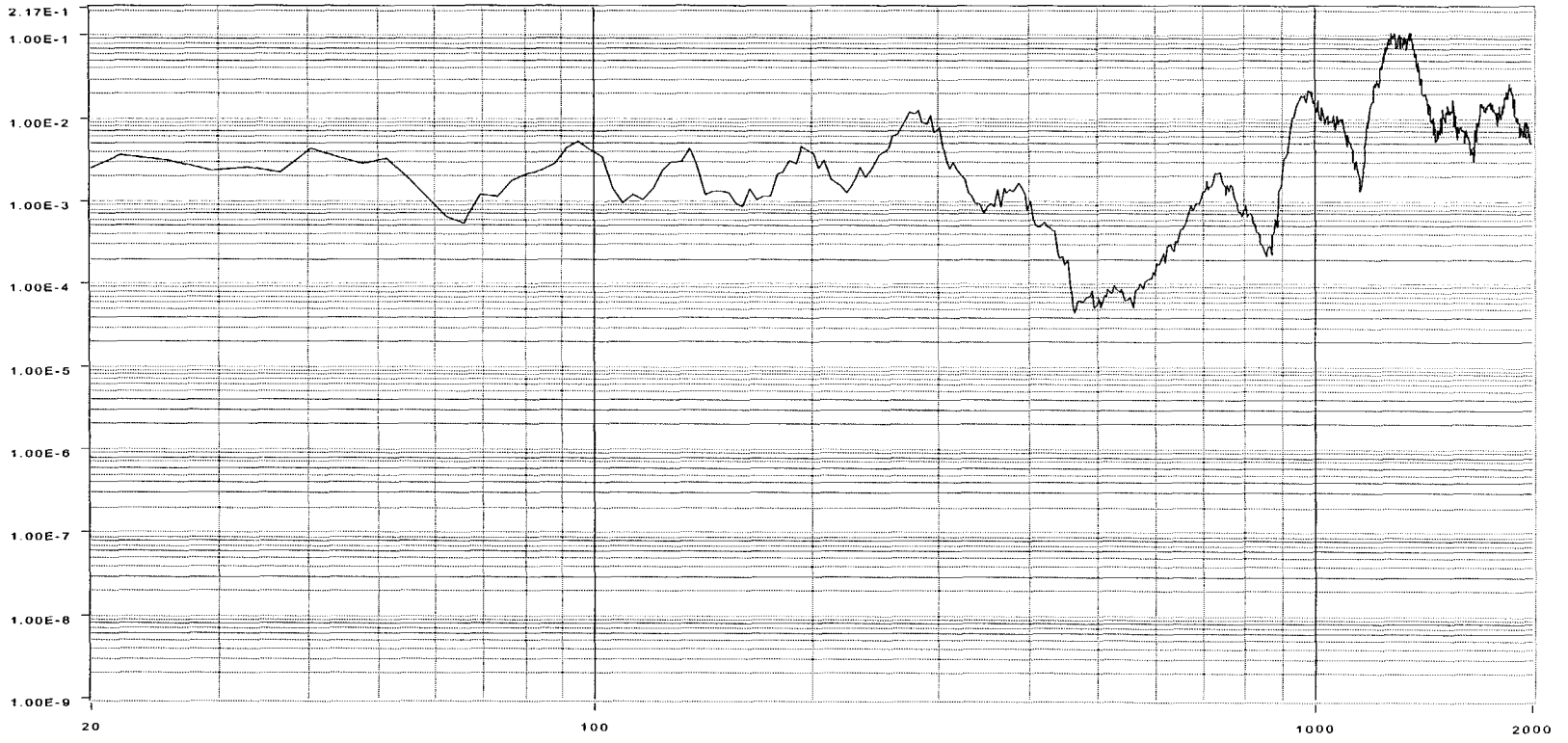
Channel #: 20 Node Number: 0020

Channel Label: A8 X

Channel Description:

Start Time: 46.00

RMS= 4.918E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

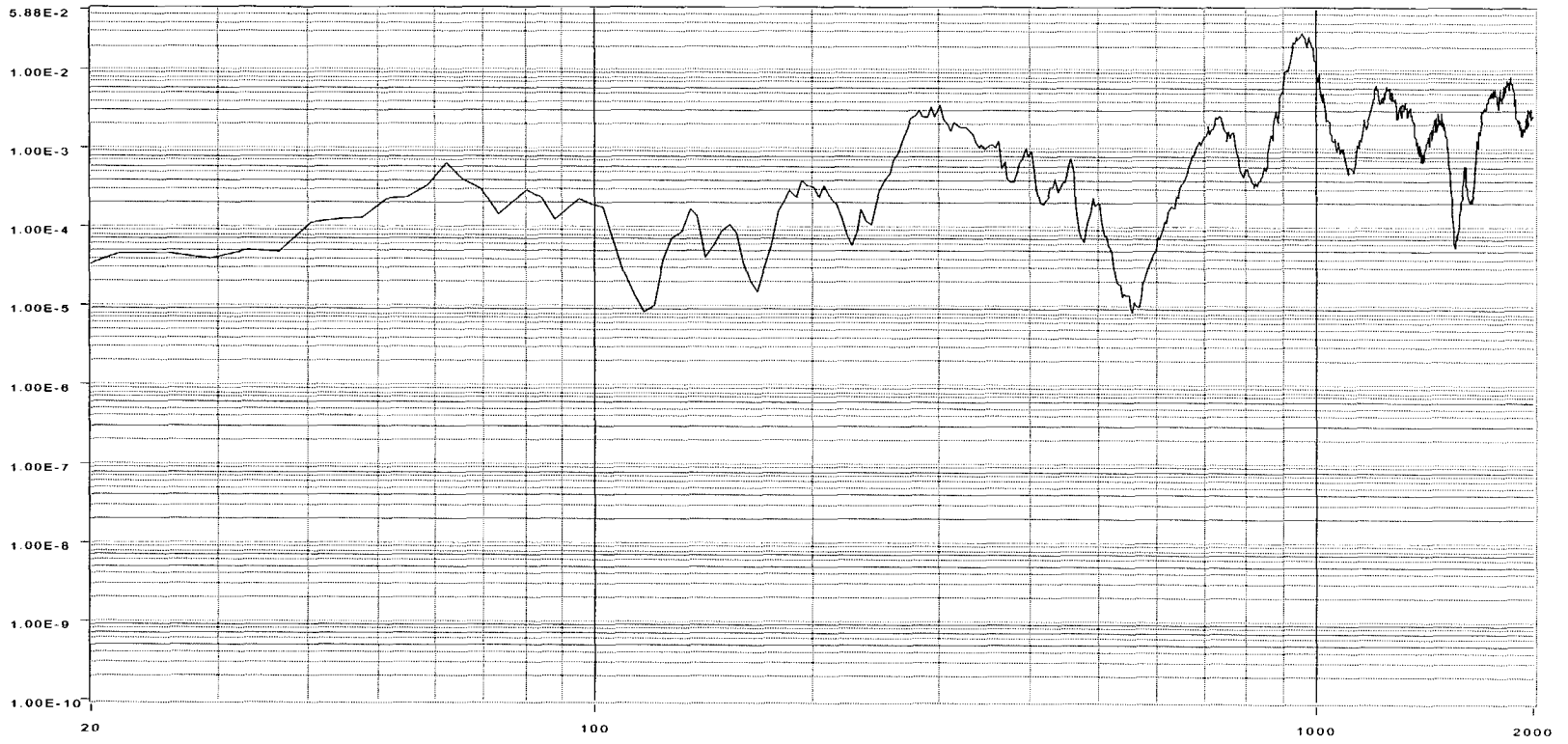
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 46.00

RMS= 2.279E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

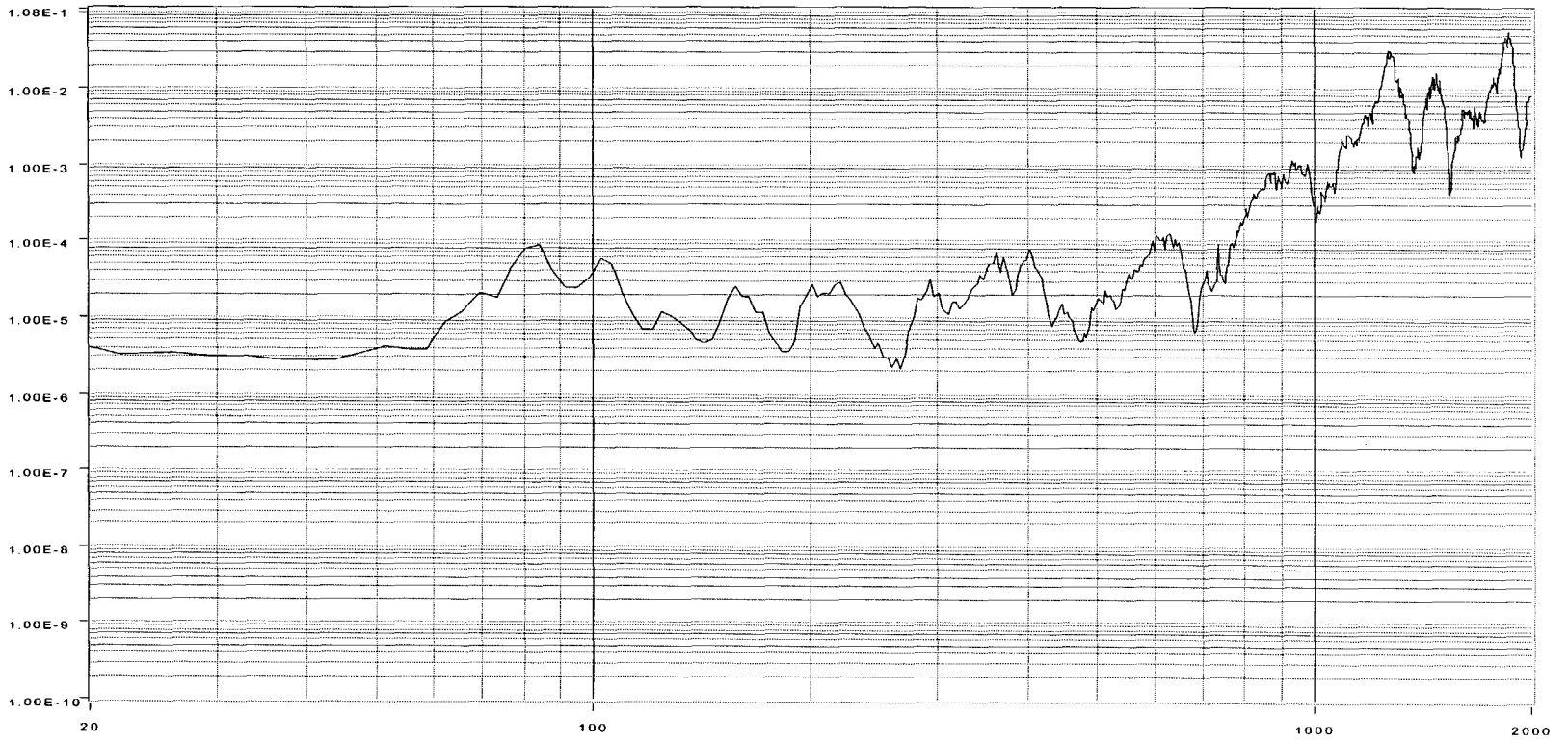
Channel #: 22 Node Number: 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 46.00

RMS= 2.942E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

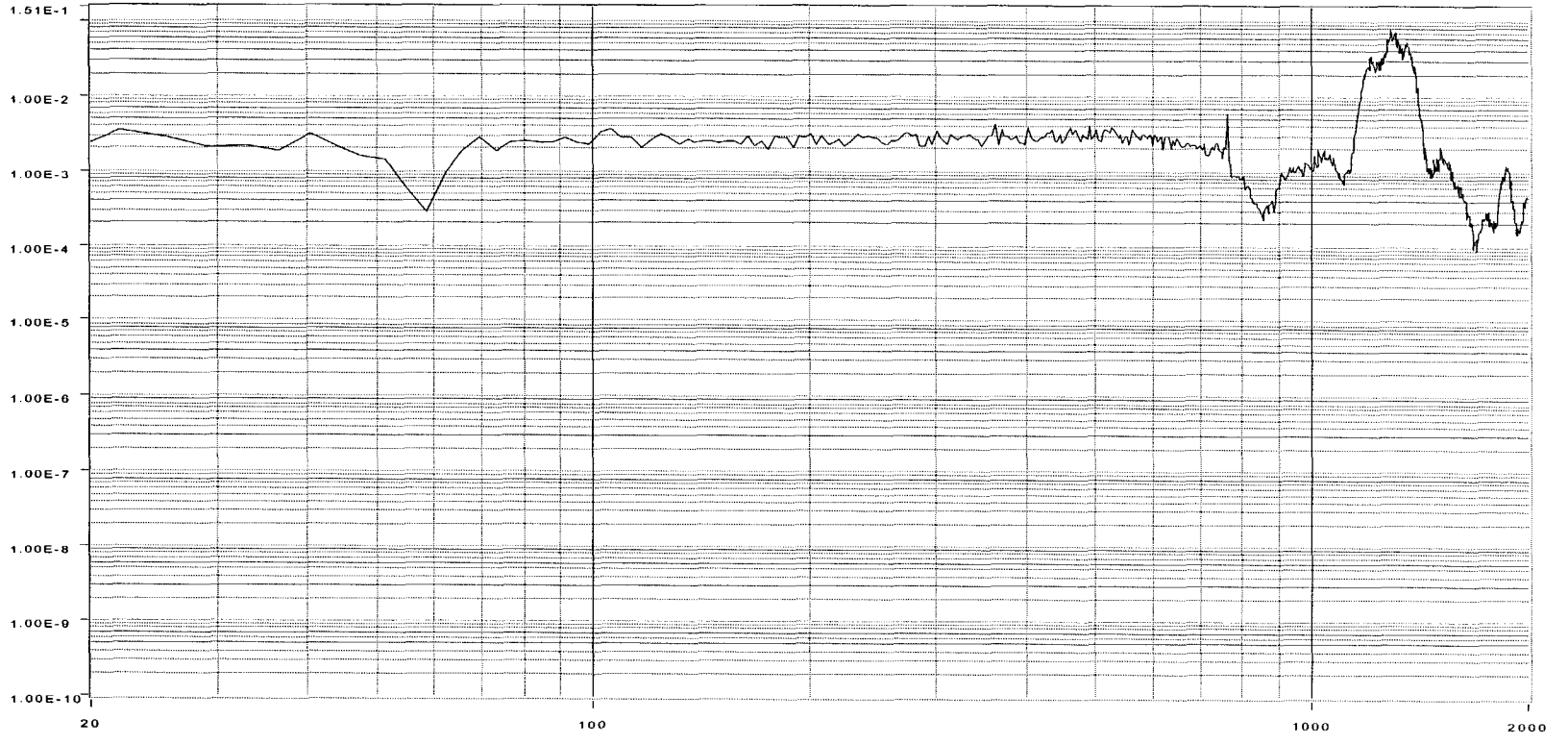
Channel #: 23 Node Number: 0023

Channel Label: A9 X

Channel Description:

Start Time: 46.00

RMS= 3.394E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

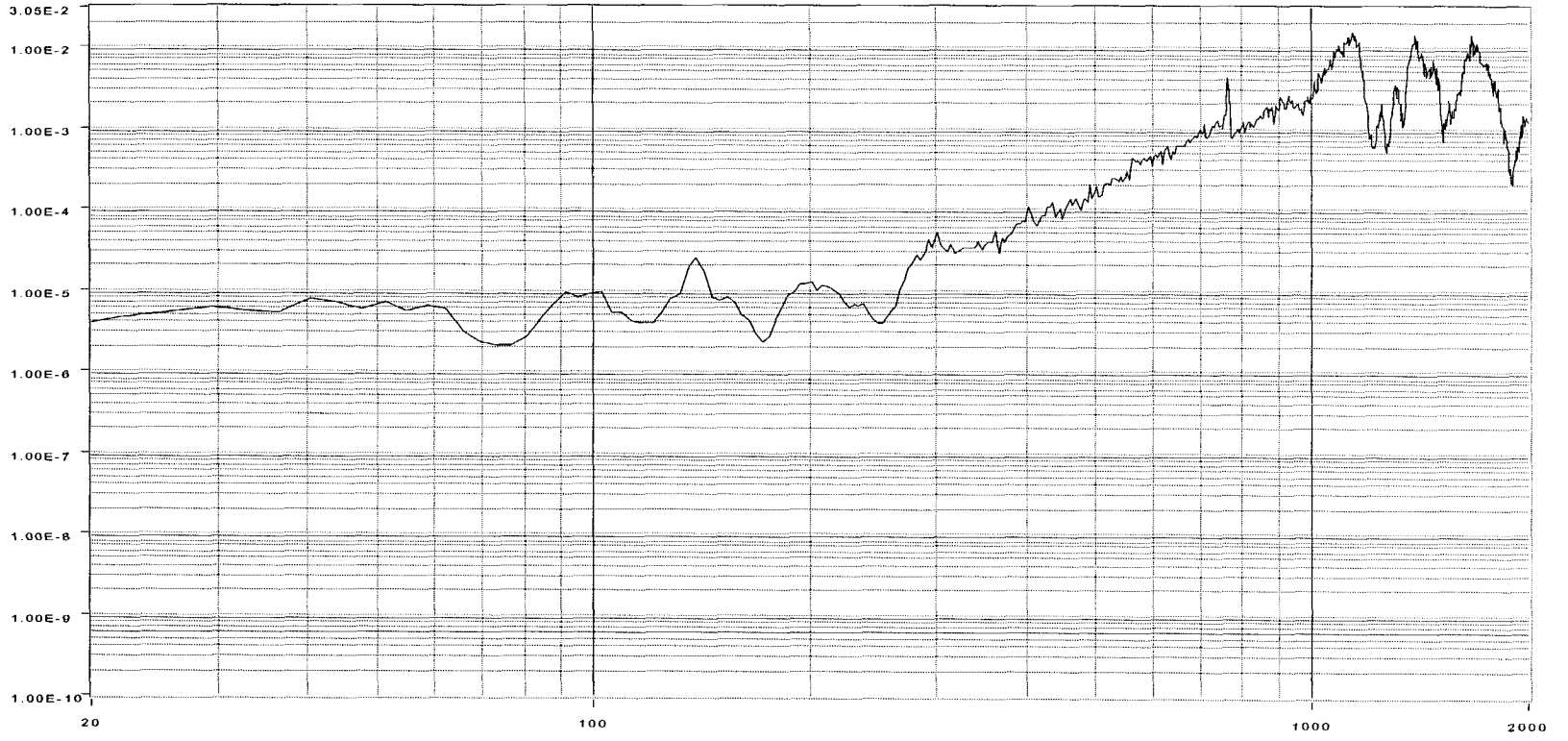
Channel #: 24 Node Number: 0024

Channel Label: A9 Y

Channel Description:

Start Time: 46.00

RMS= 2.225E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

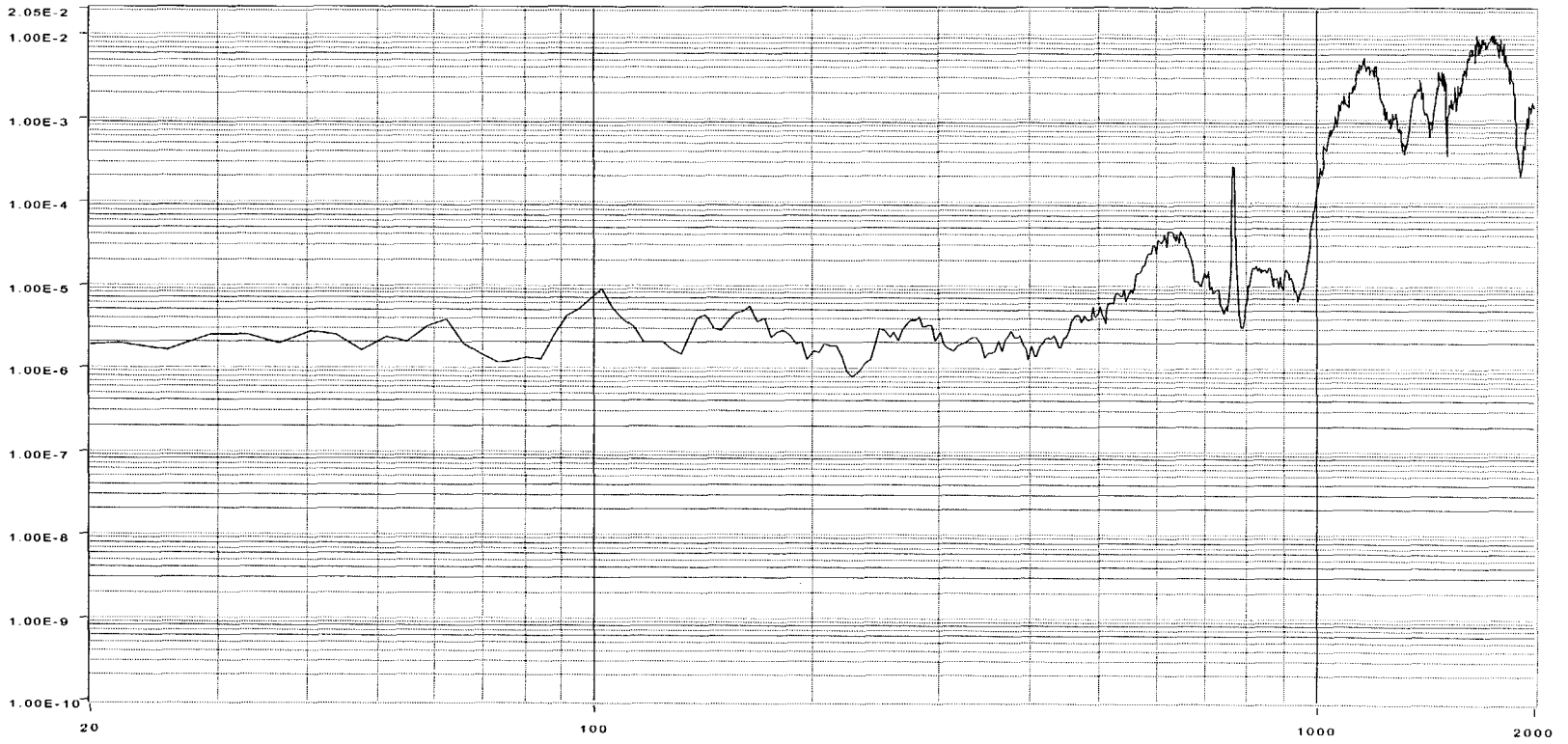
Channel #: 25 Node Number: 0025

Channel Label: A9 Z

Channel Description:

Start Time: 46.00

RMS= 1.726E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

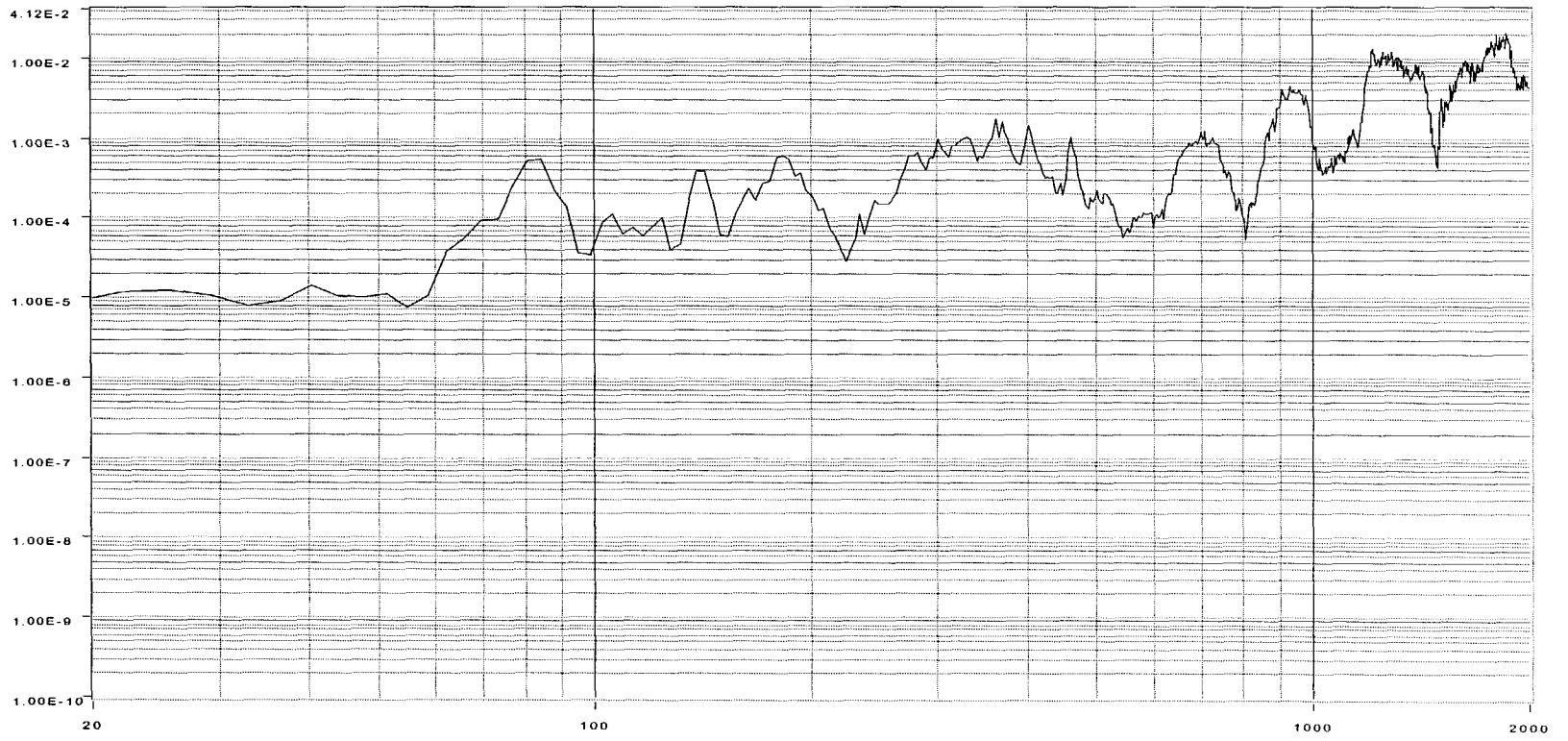
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 46.00

RMS= 2.684E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

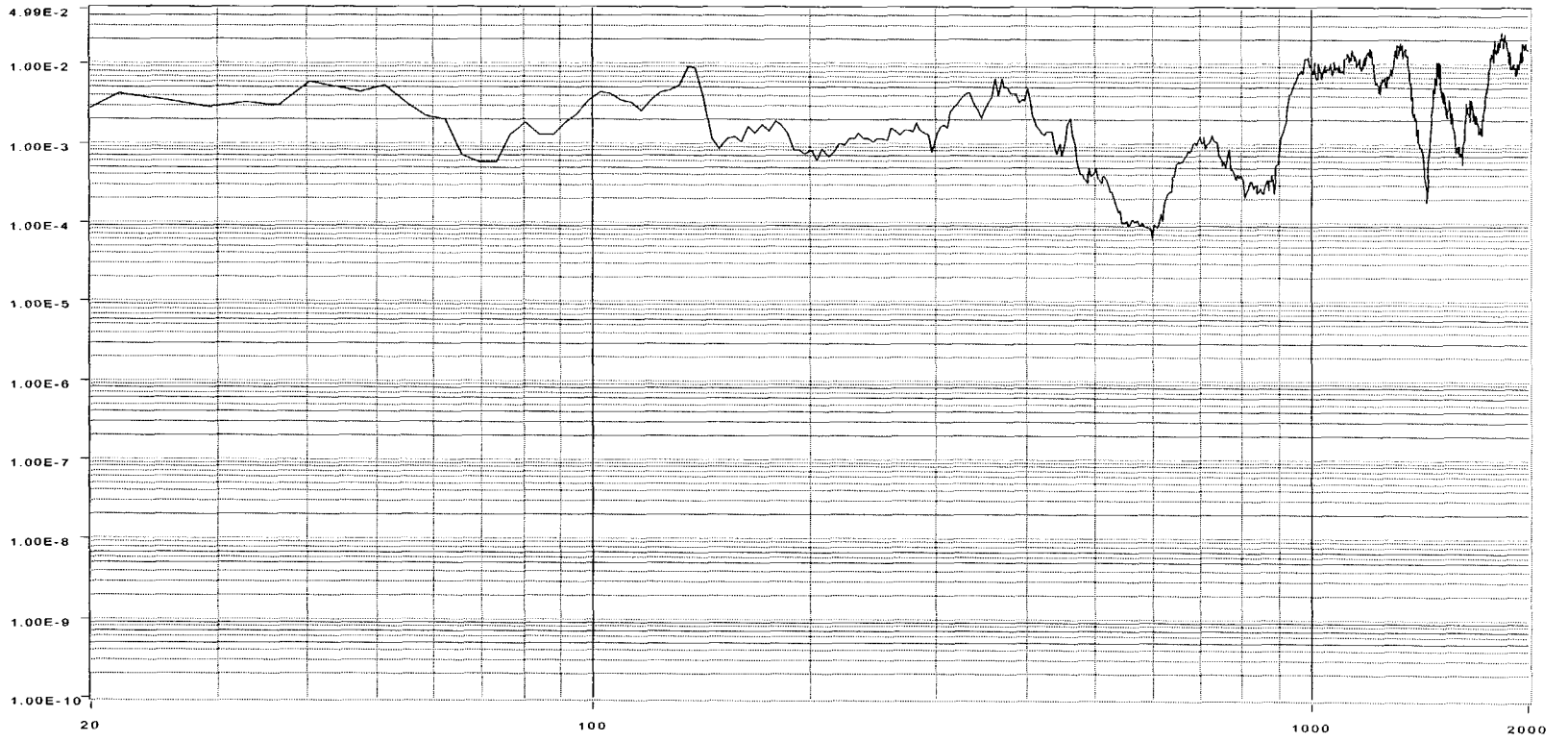
Channel #: 27 Node Number: 0027

Channel Label: A10 Y

Channel Description:

Start Time: 46.00

RMS= 3.138E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

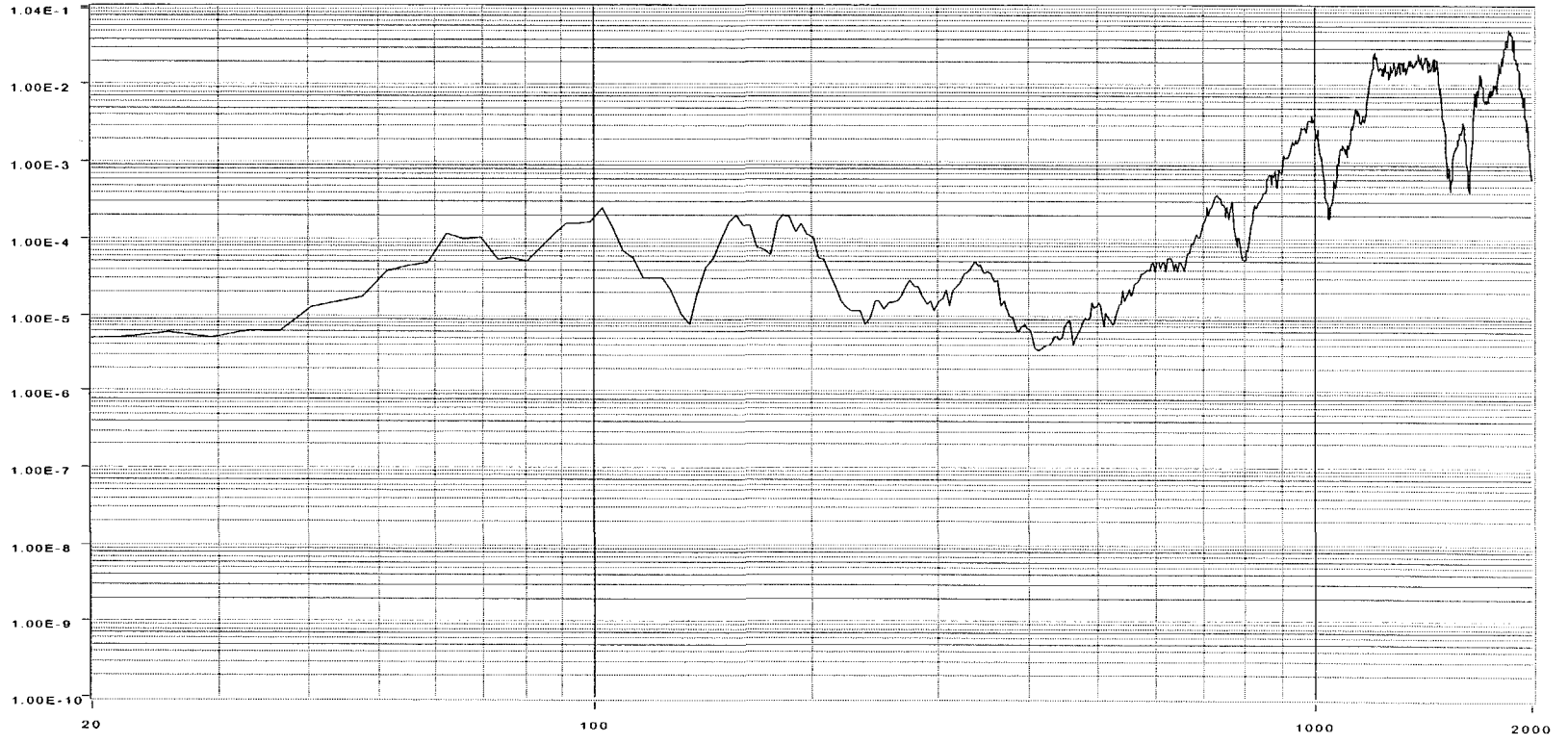
Channel #: 28 Node Number: 0028

Channel Label: A10 Z

Channel Description:

Start Time: 46.00

RMS= 3.398E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

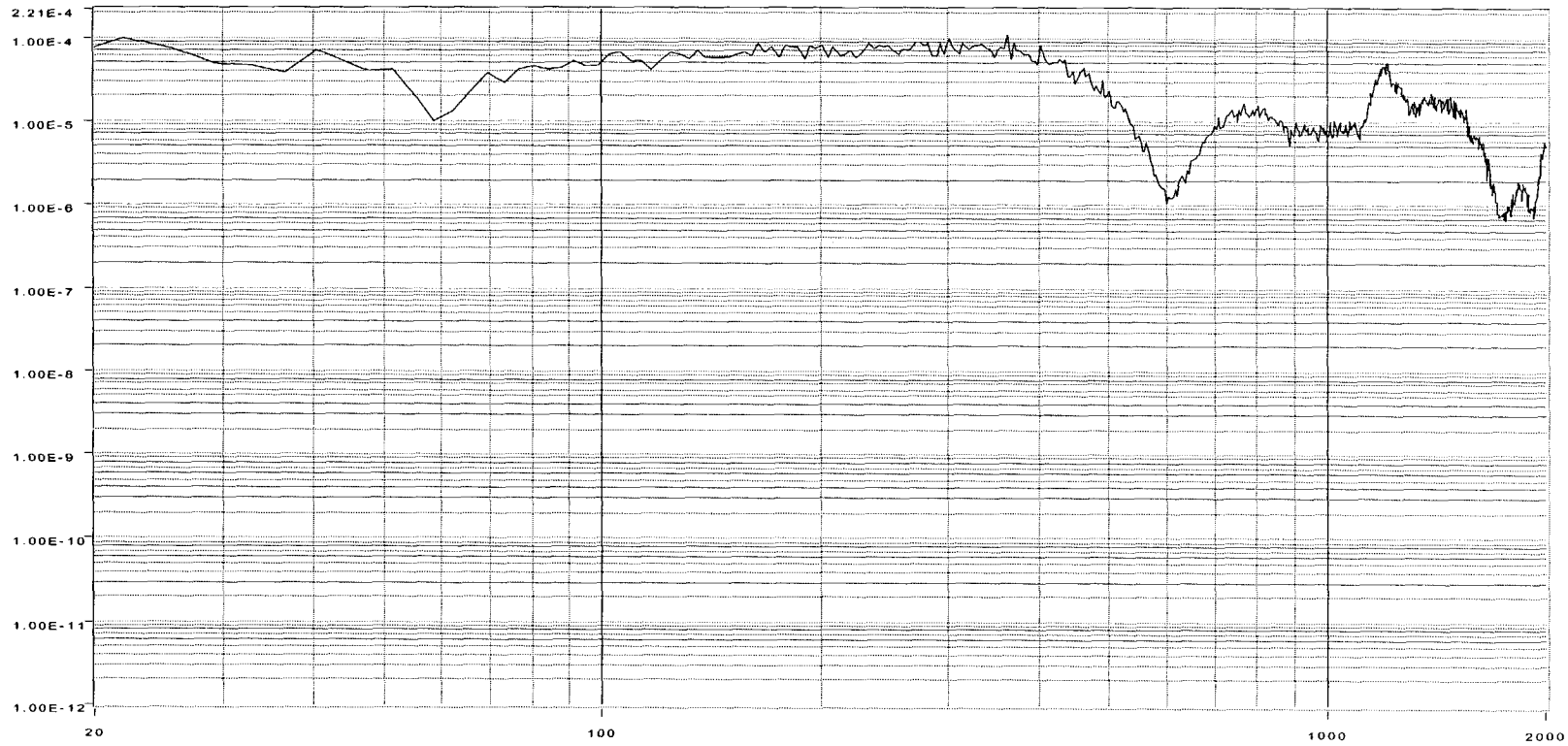
Channel #: 31 Node Number: 0031

Channel Label: DRIVE

Channel Description:

Start Time: 46.00

RMS= 2.099E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

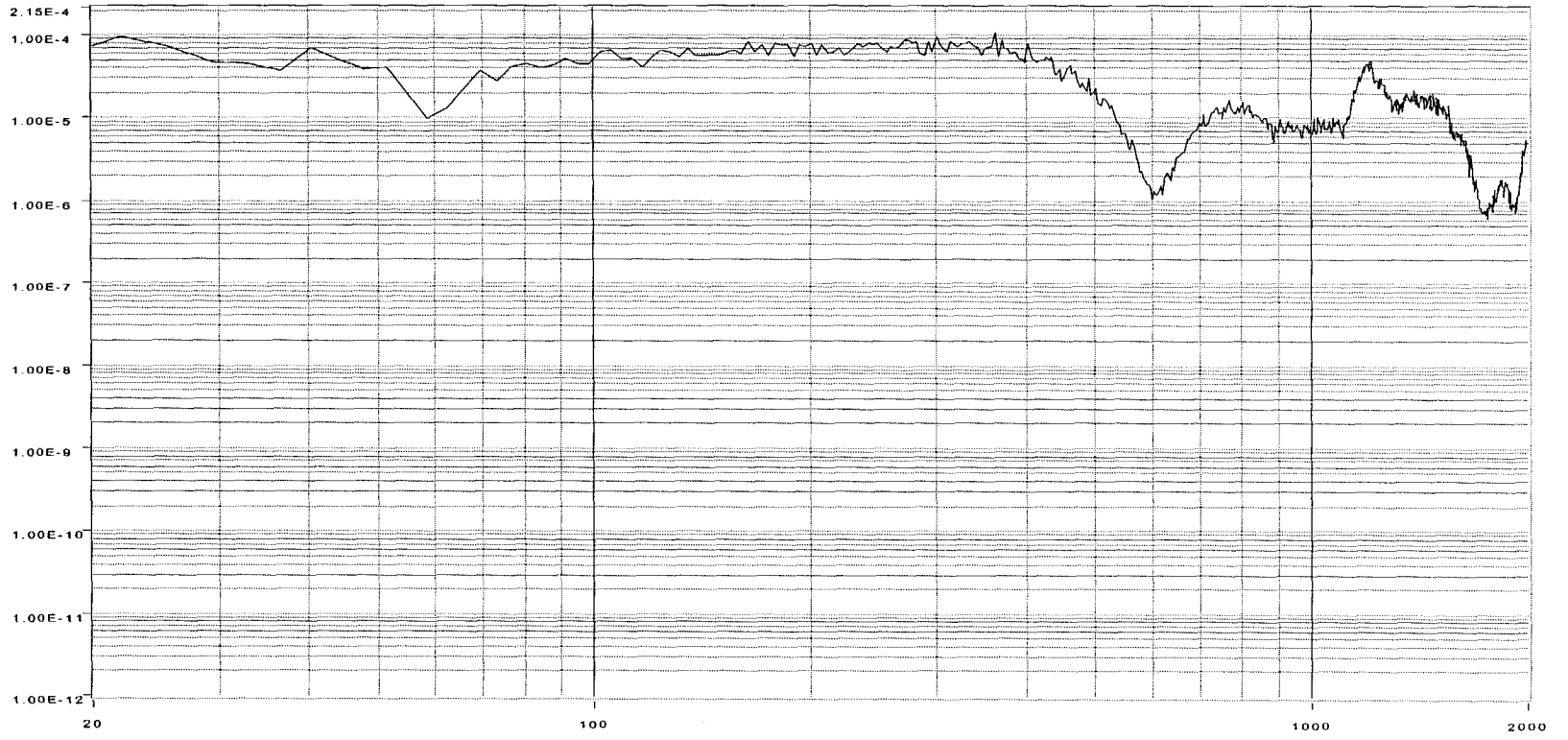
Channel #: 32 Node Number: 0032

Channel Label: COLA

Channel Description:

Start Time: 46.00

RMS= 2.070E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

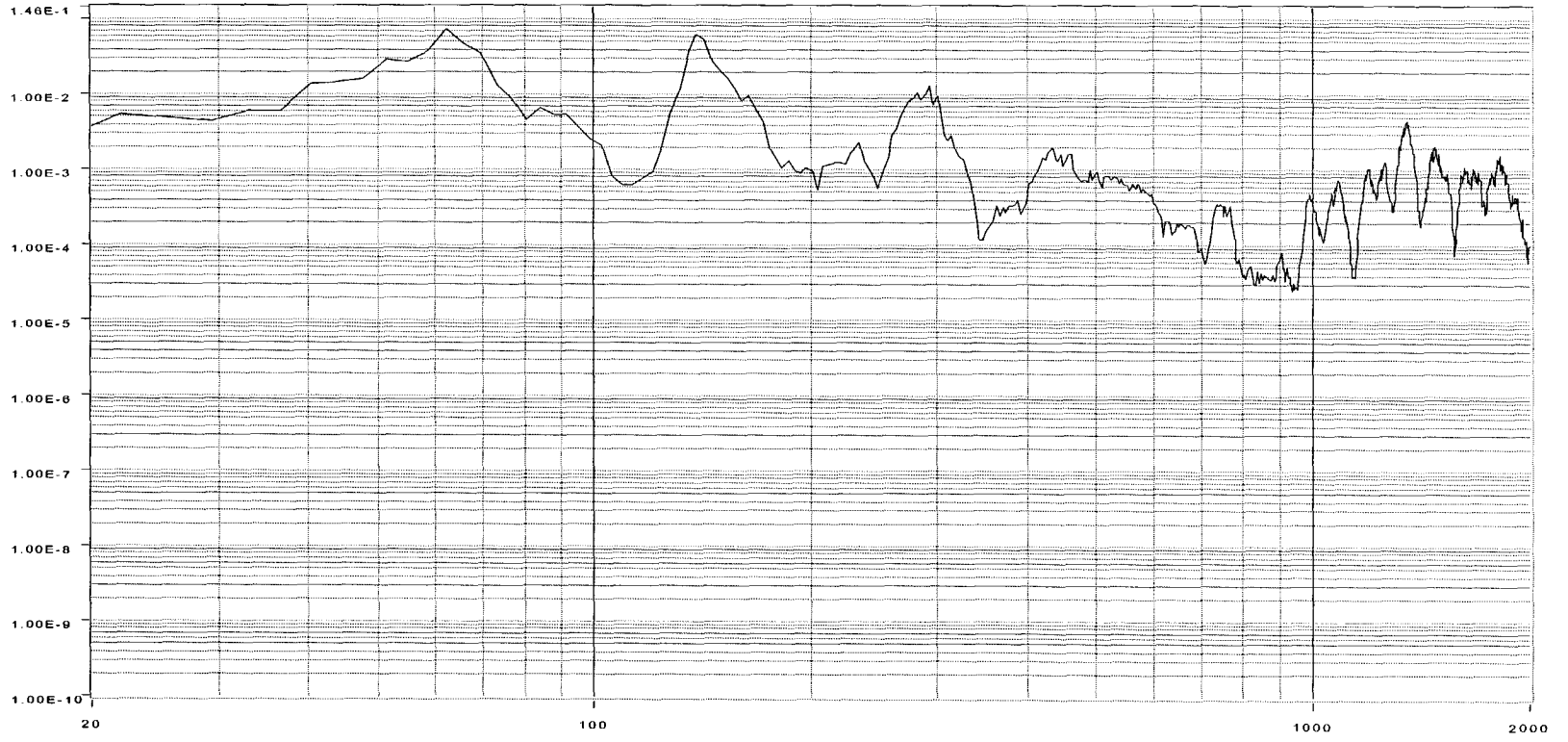
Channel #: 33 Node Number: 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 46.00

RMS= 1.986E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

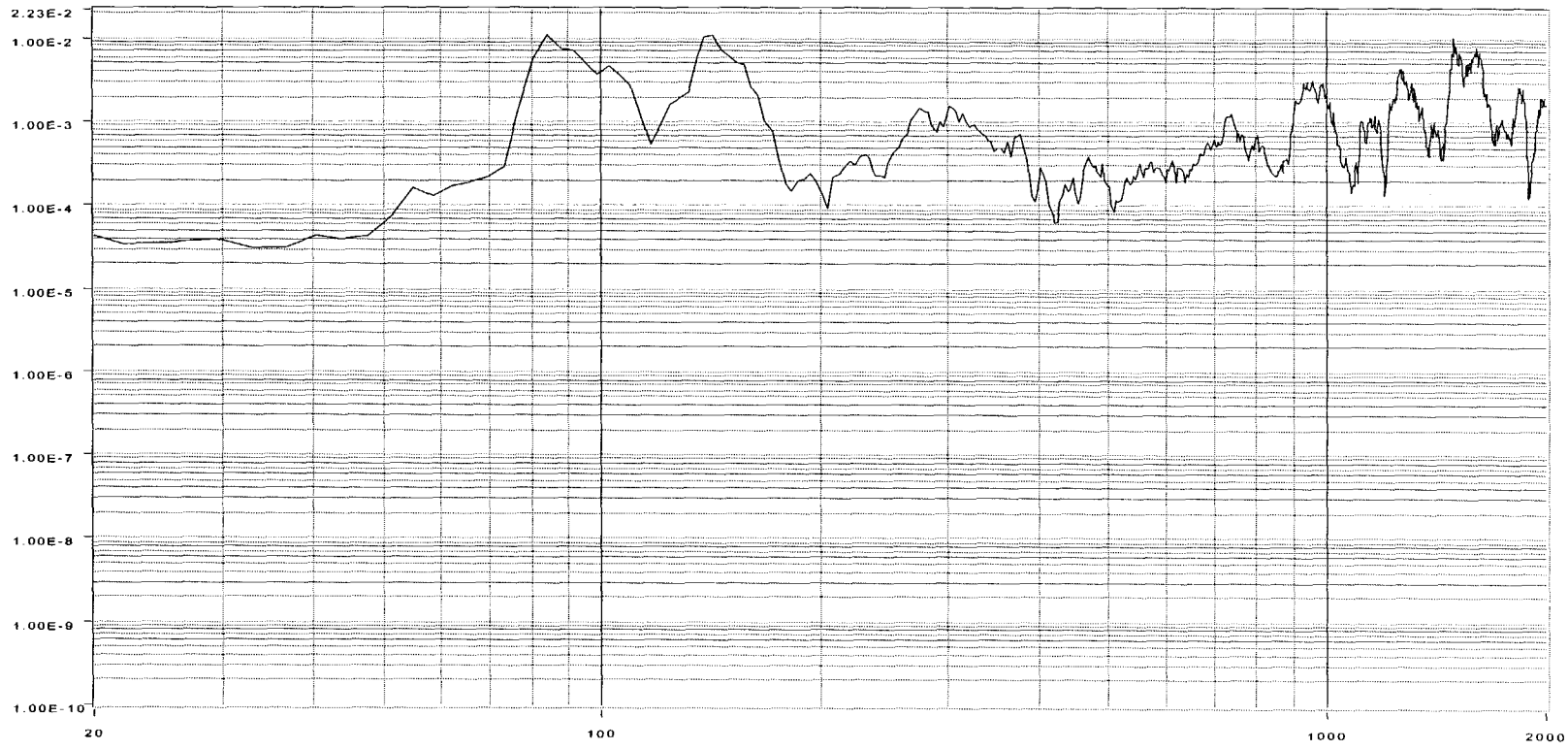
Channel #: 34 Node Number: 0034

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 46.00

RMS= 1.695E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

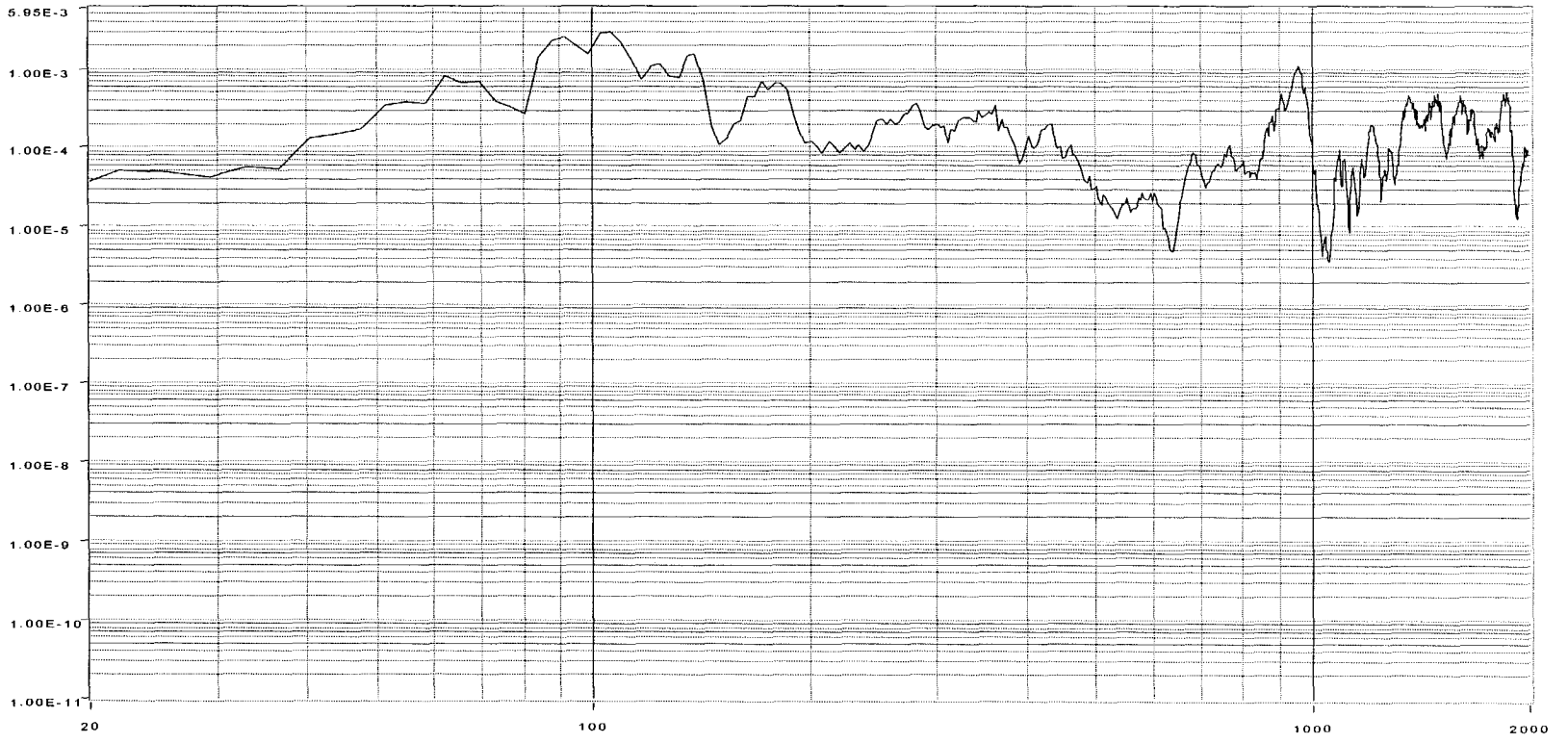
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 46.00

RMS= 6.513E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

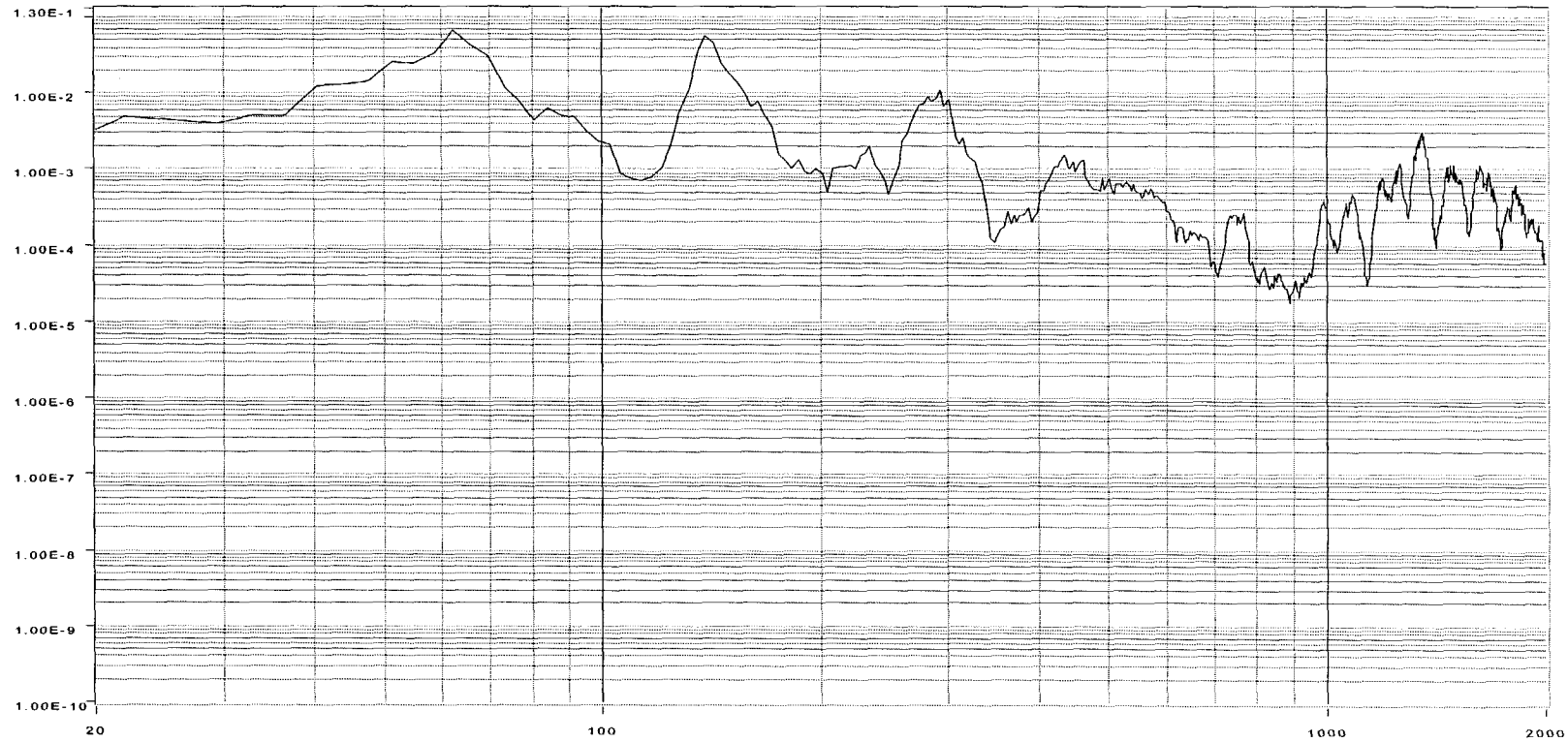
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 46.00

RMS= 1.820E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

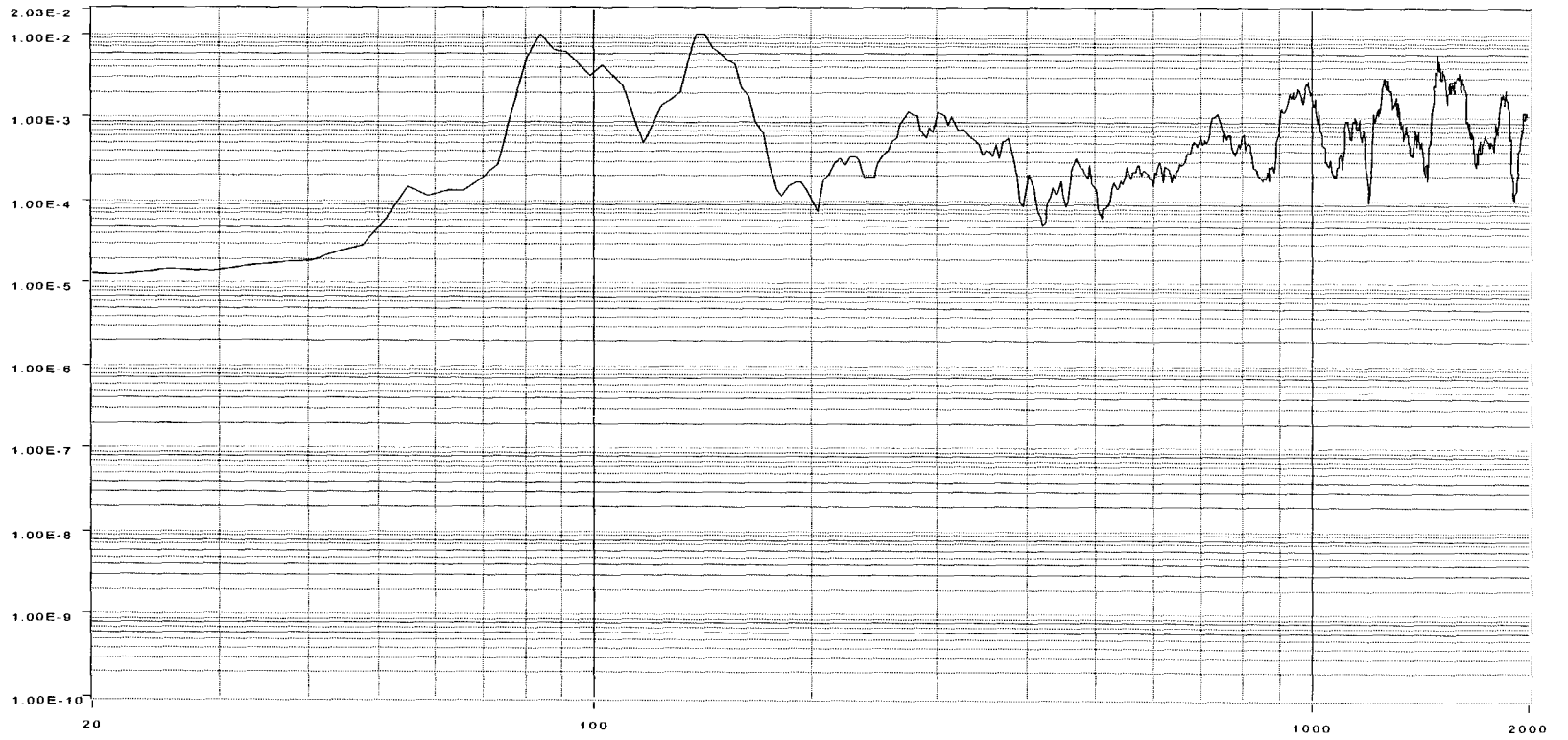
Channel #: 37 Node Number: 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 46.00

RMS= 1.406E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

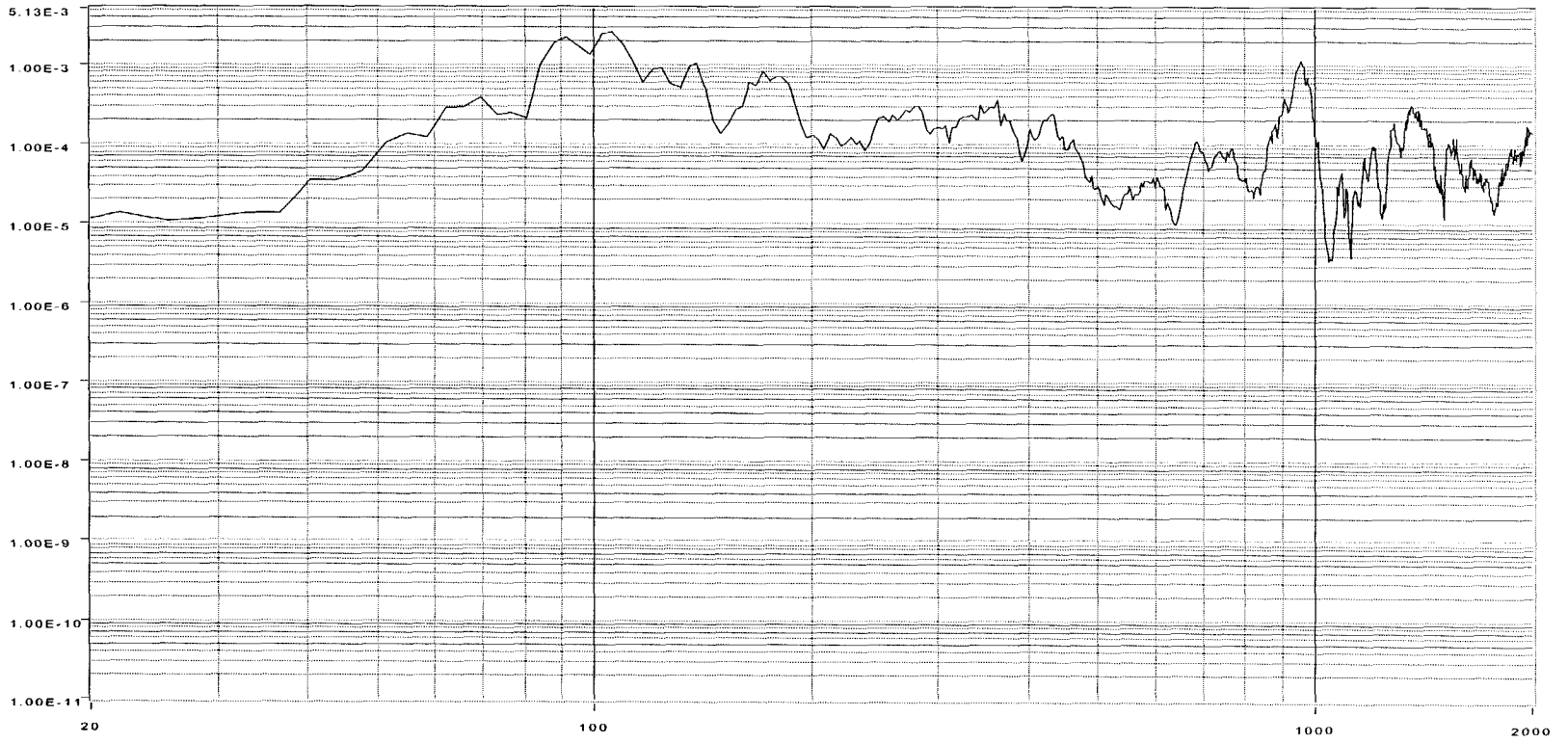
Channel #: 38 Node Number: 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 46.00

RMS= 5.602E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

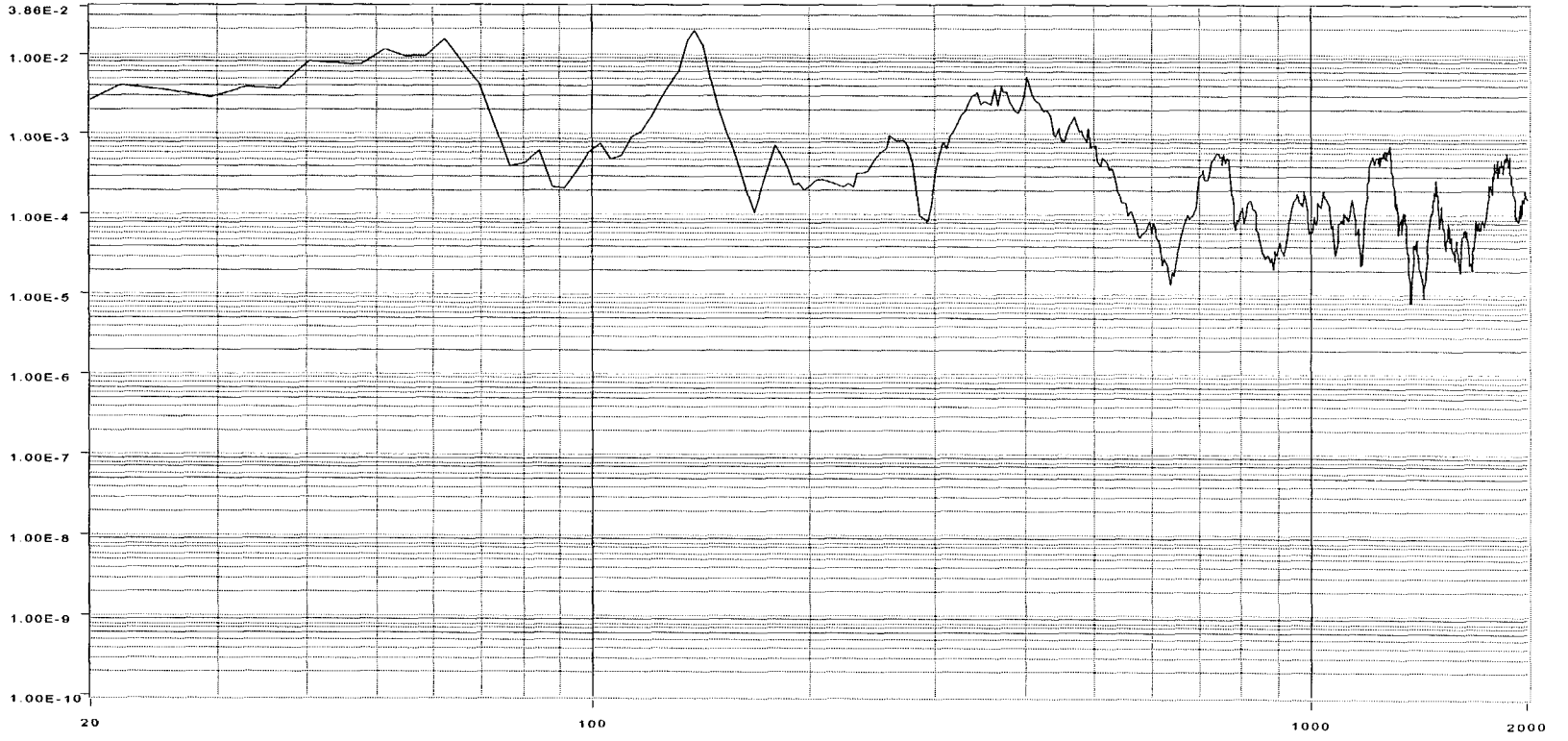
Channel #: 39 Node Number: 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 46.00

RMS= 1.156E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

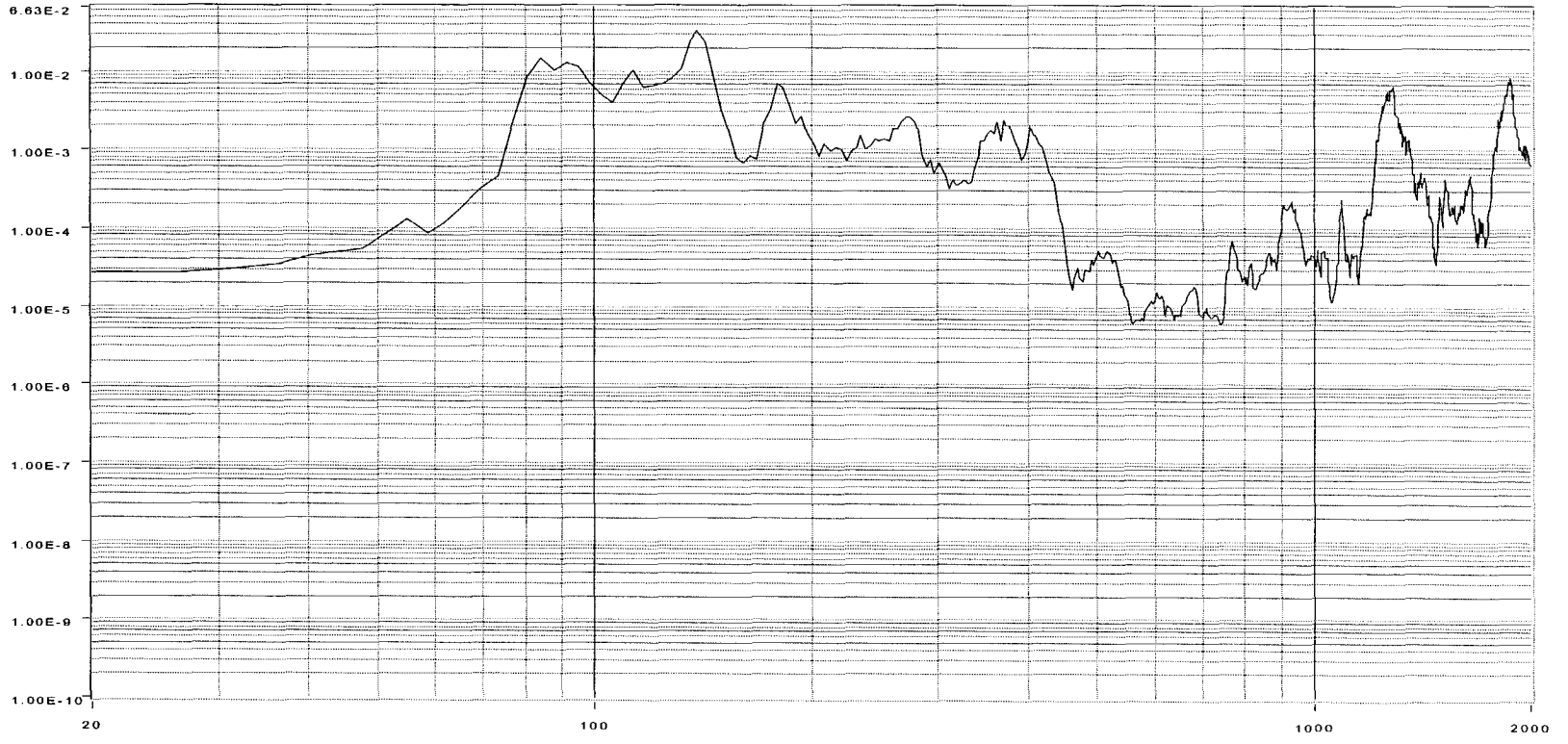
Channel #: 40 Node Number: 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 46.00

RMS= 1.538E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

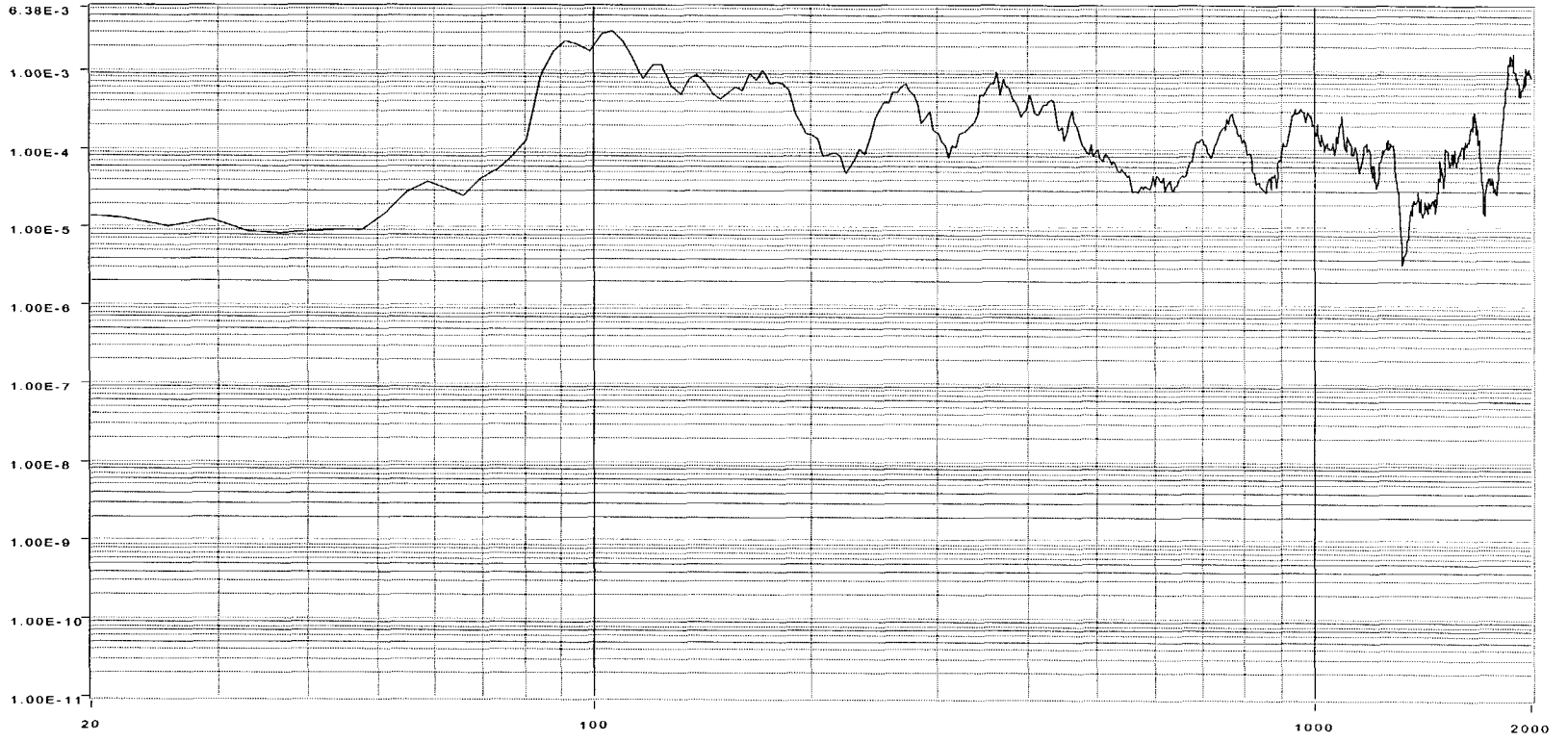
Channel #: 41 Node Number: 0041

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 46.00

RMS= 6.856E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

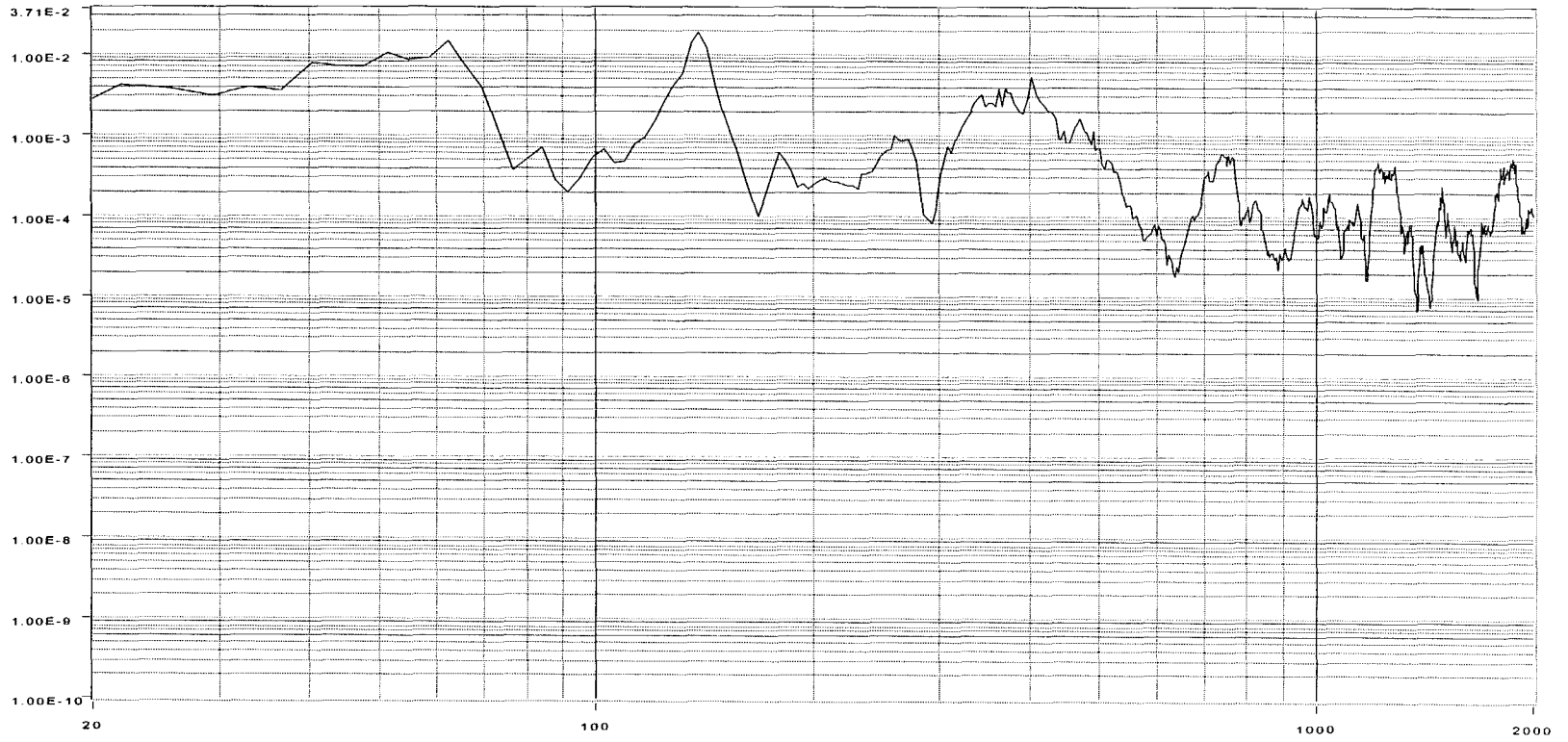
Channel #: 42 Node Number: 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 46.00

RMS= 1.126E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

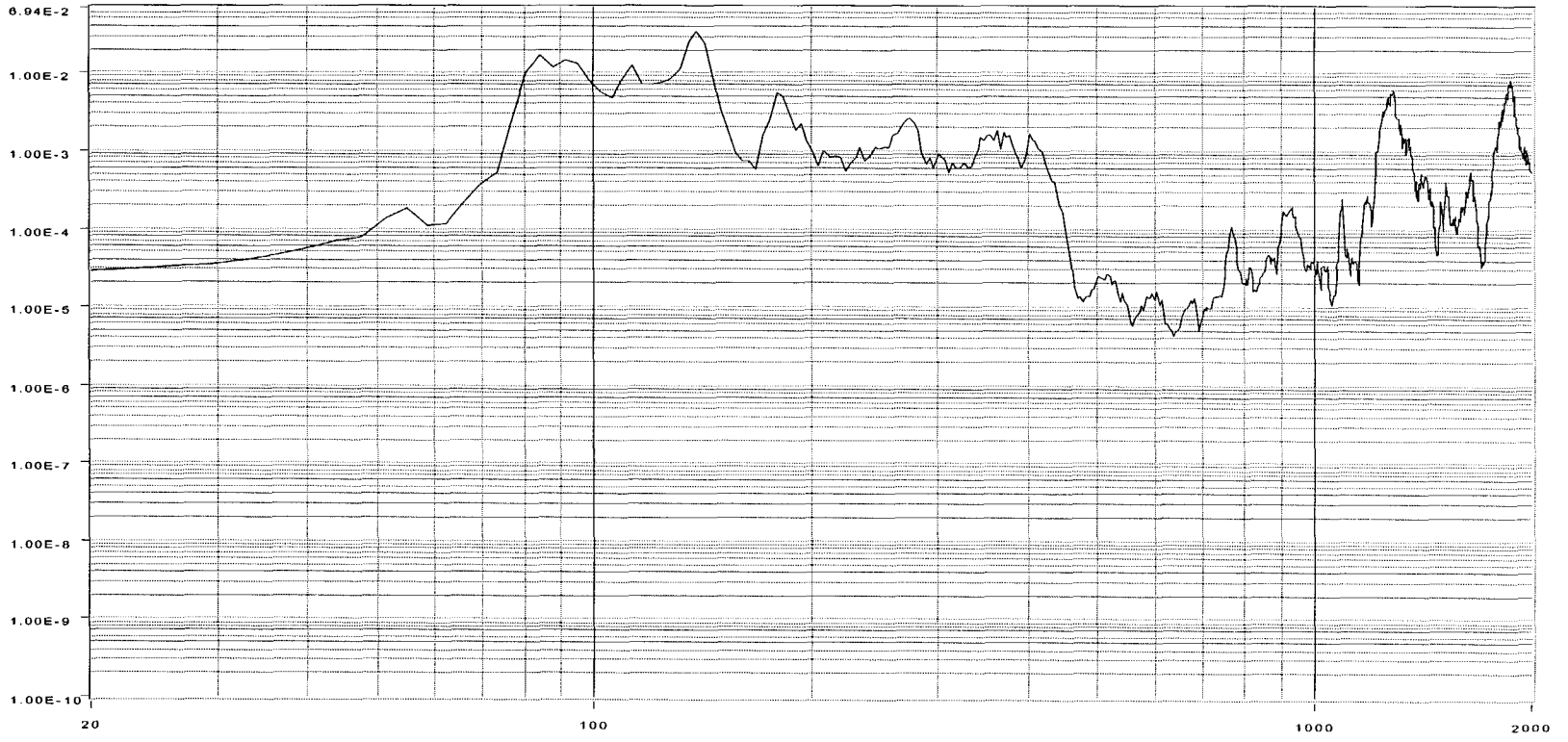
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 46.00

RMS= 1.548E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 3:46 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

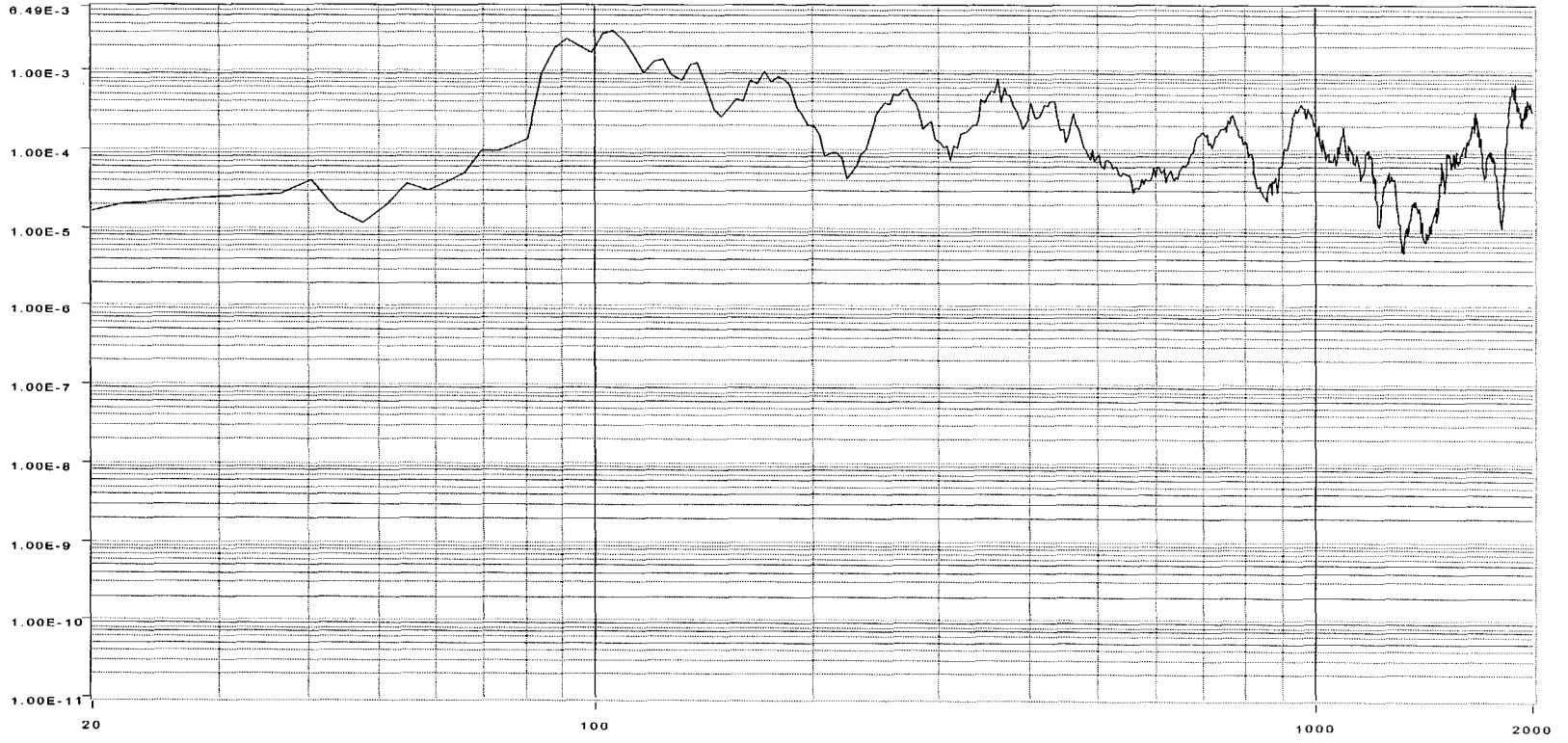
Channel #: 44 Node Number: 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 46.00

RMS= 6.148E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

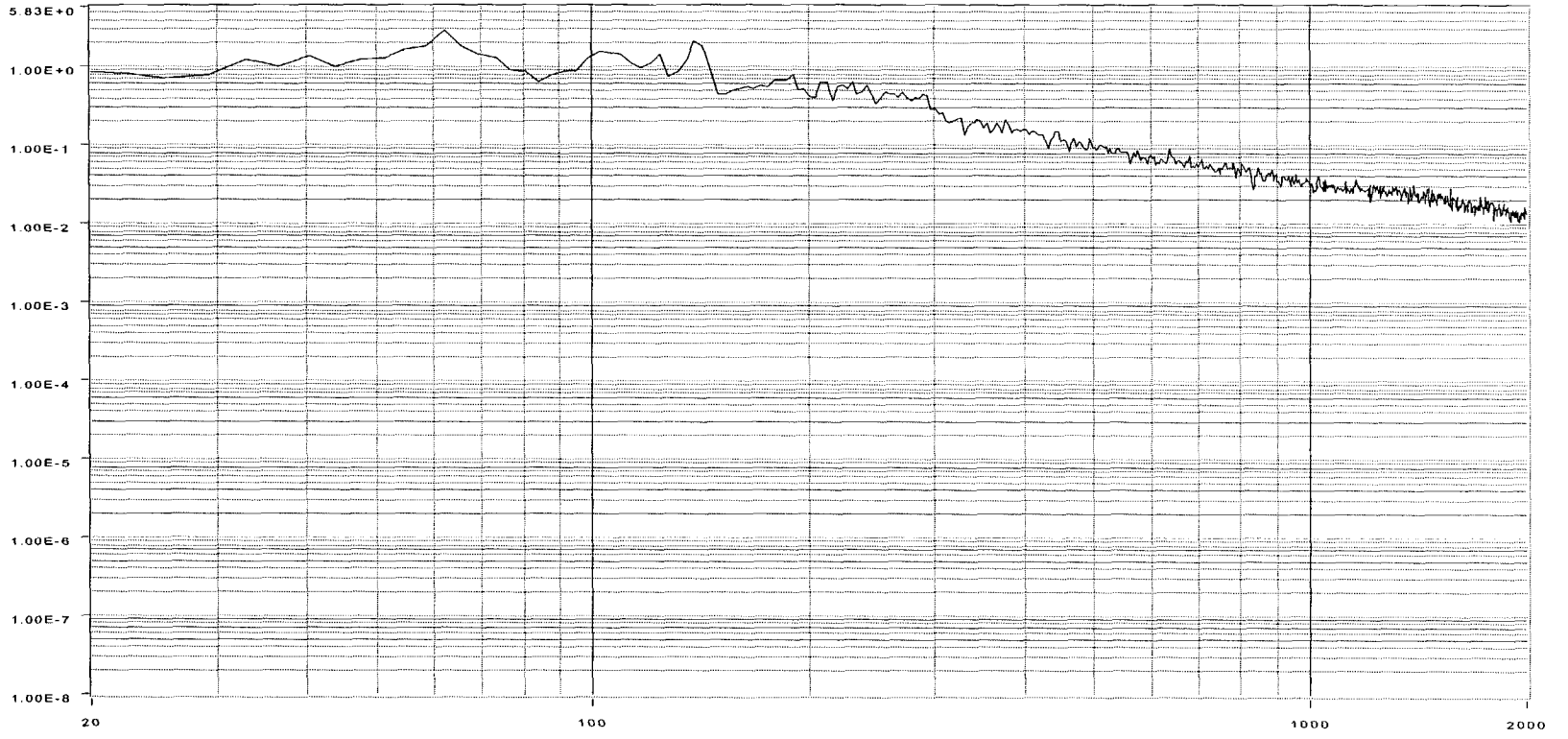
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 46.00

RMS= 1.780E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

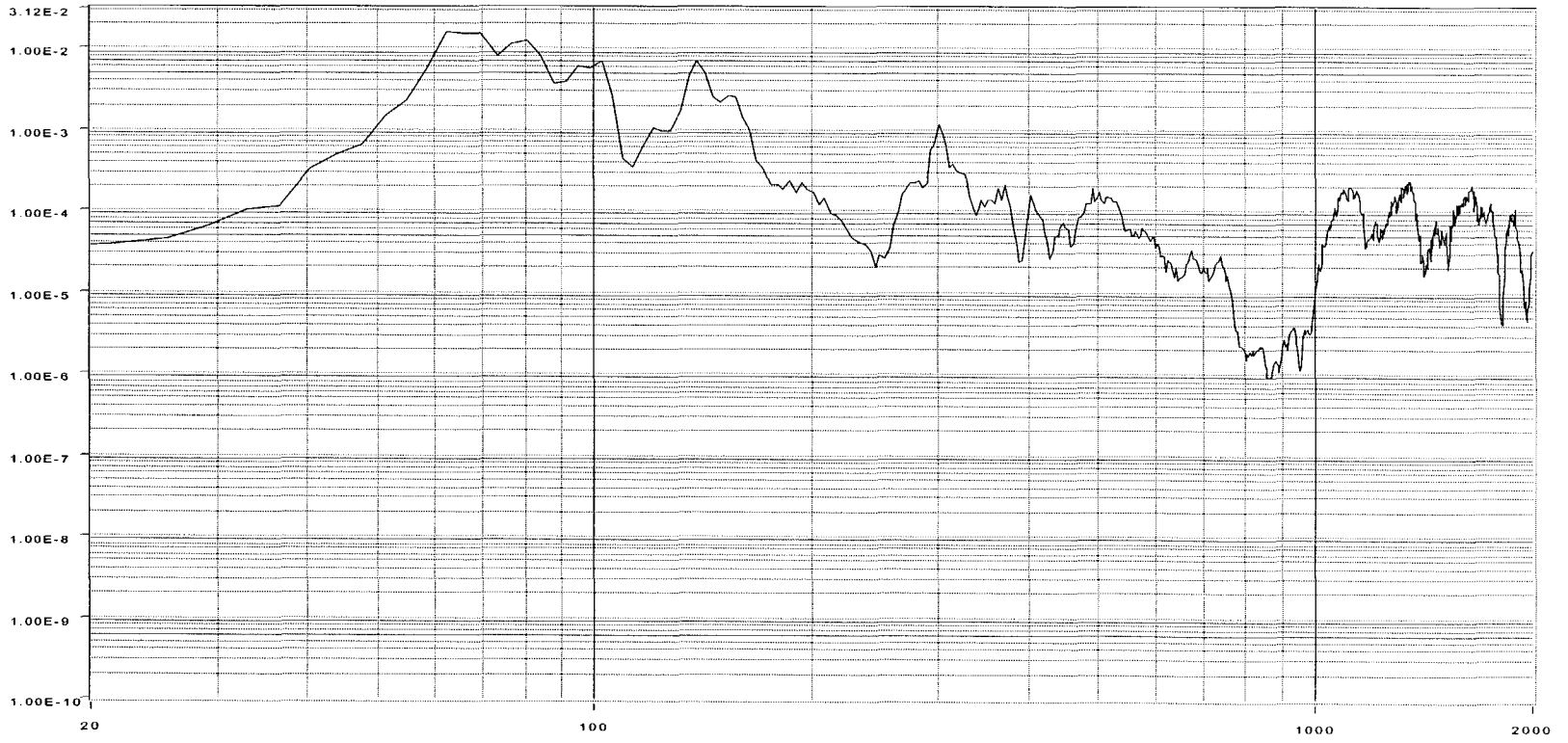
Channel #: 46 Node Number: 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 46.00

RMS= 8.572E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

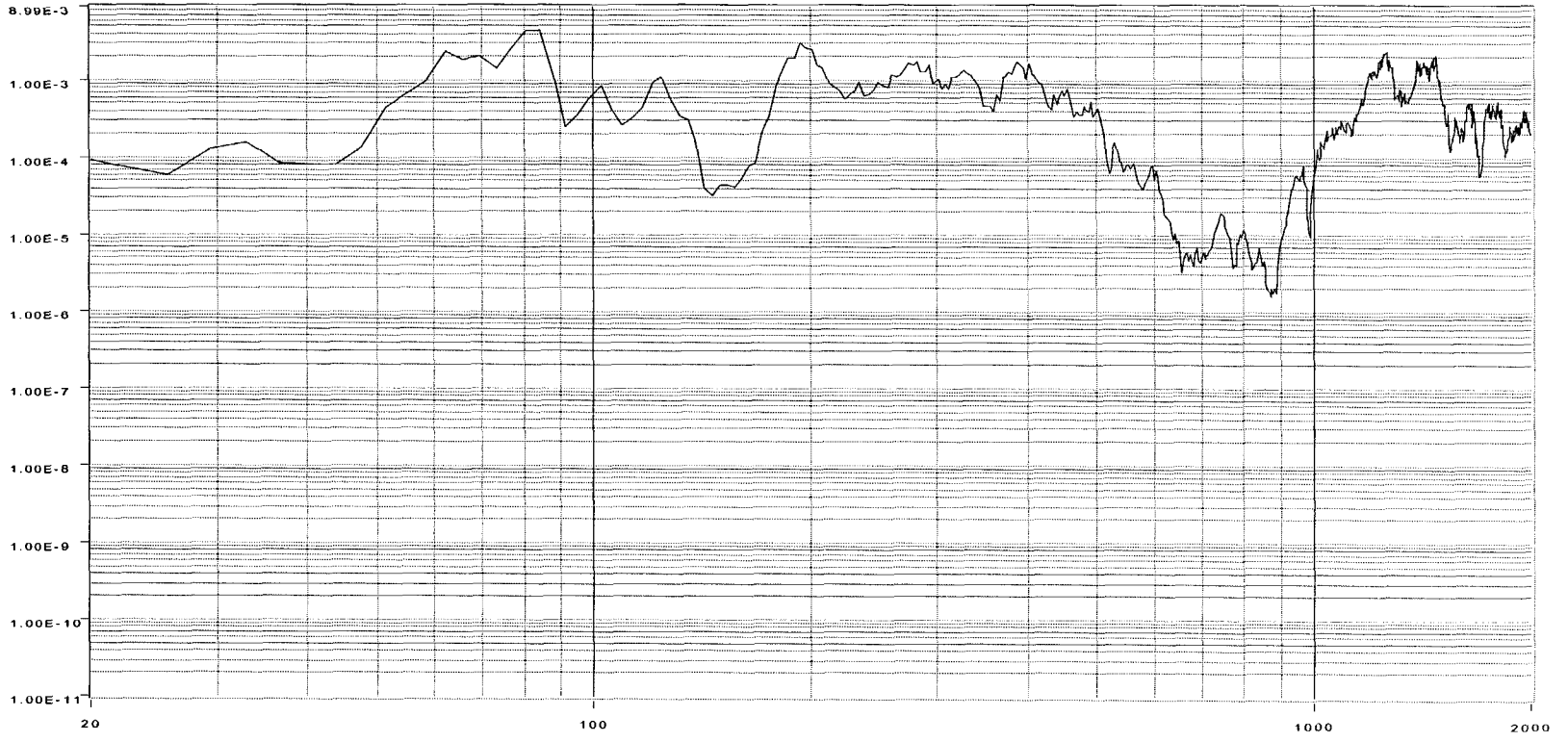
Channel #: 47 Node Number: 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 46.00

RMS= 1.014E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

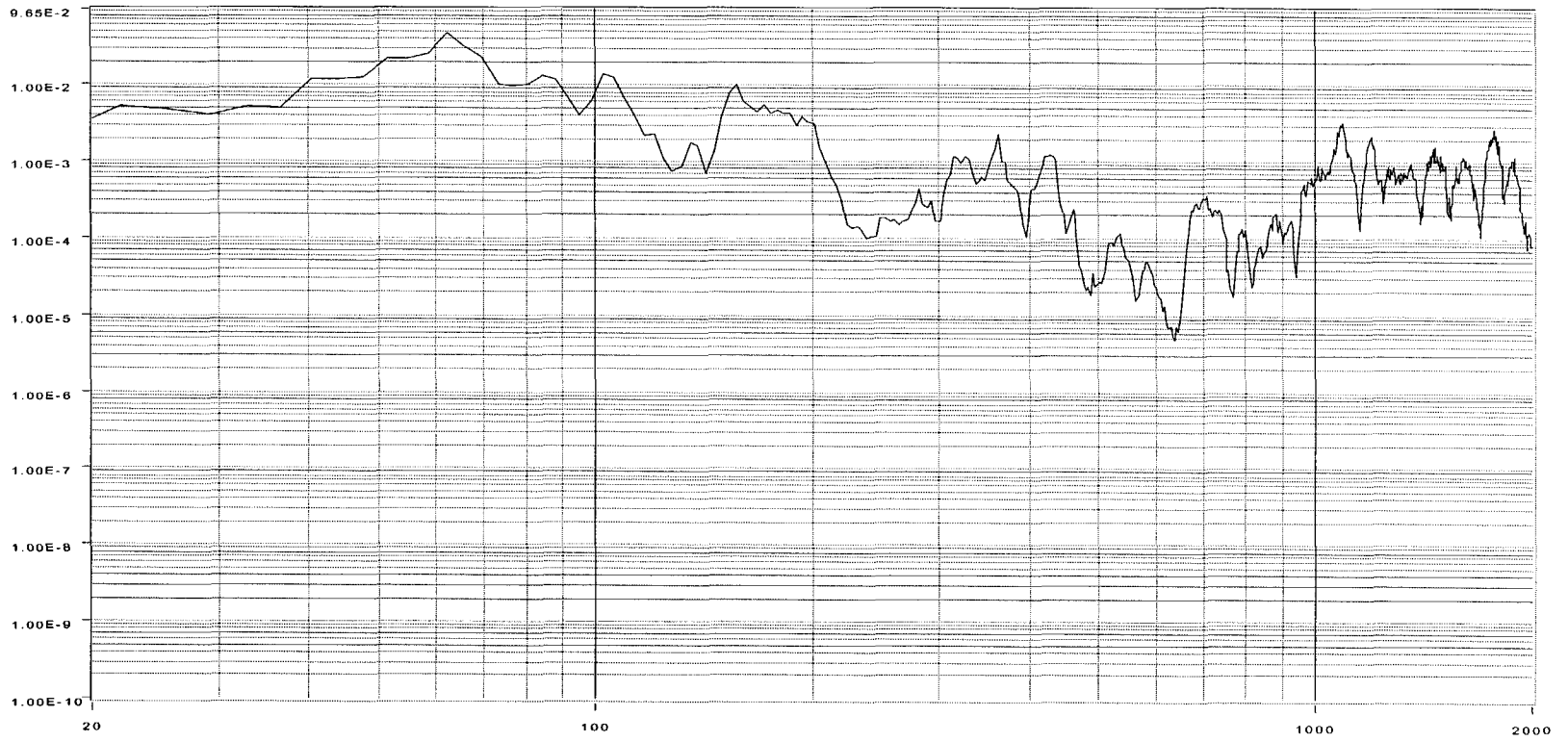
Channel #: 48 Node Number: 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 46.00

RMS= 1.609E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

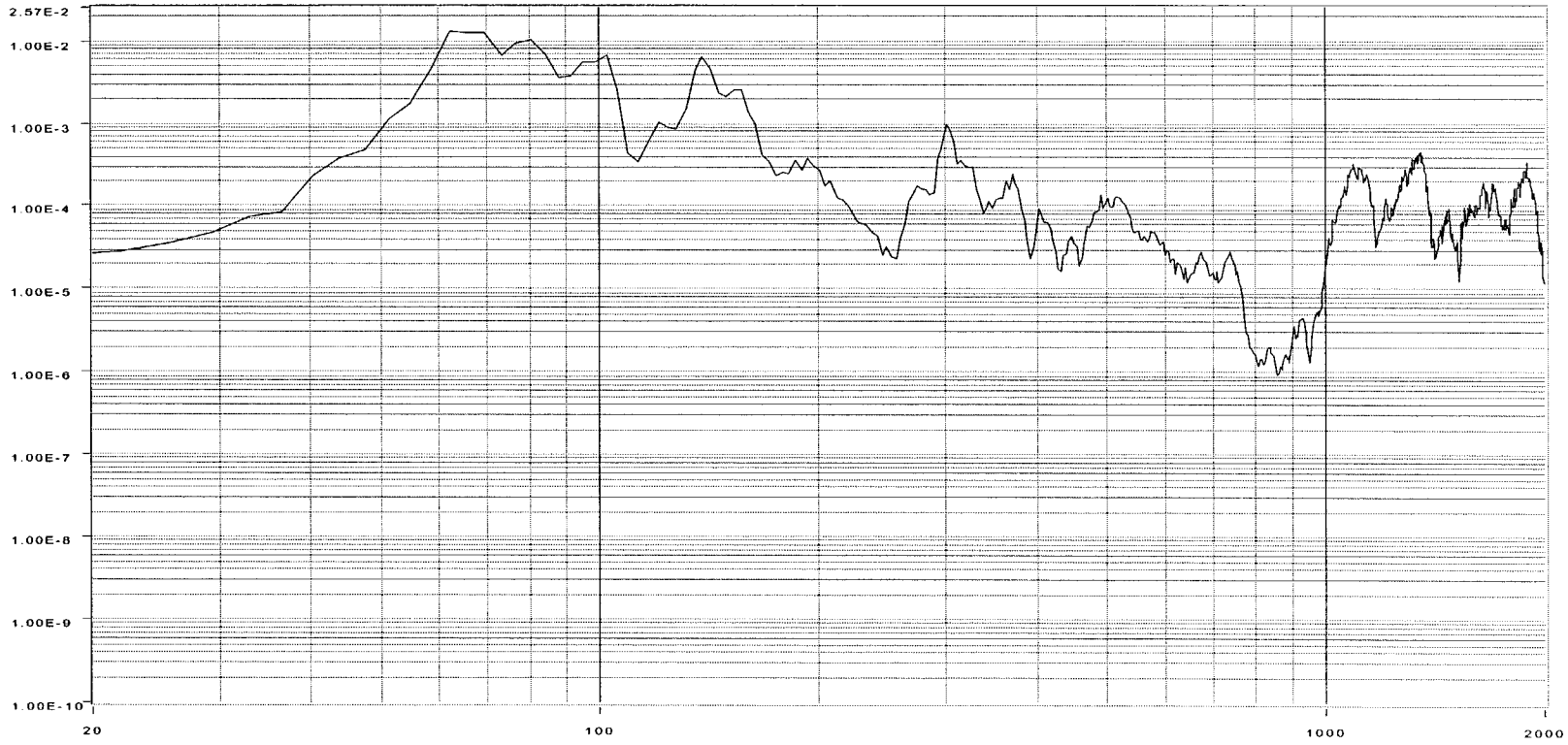
Channel #: 49 Node Number: 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 46.00

RMS= 8.386E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

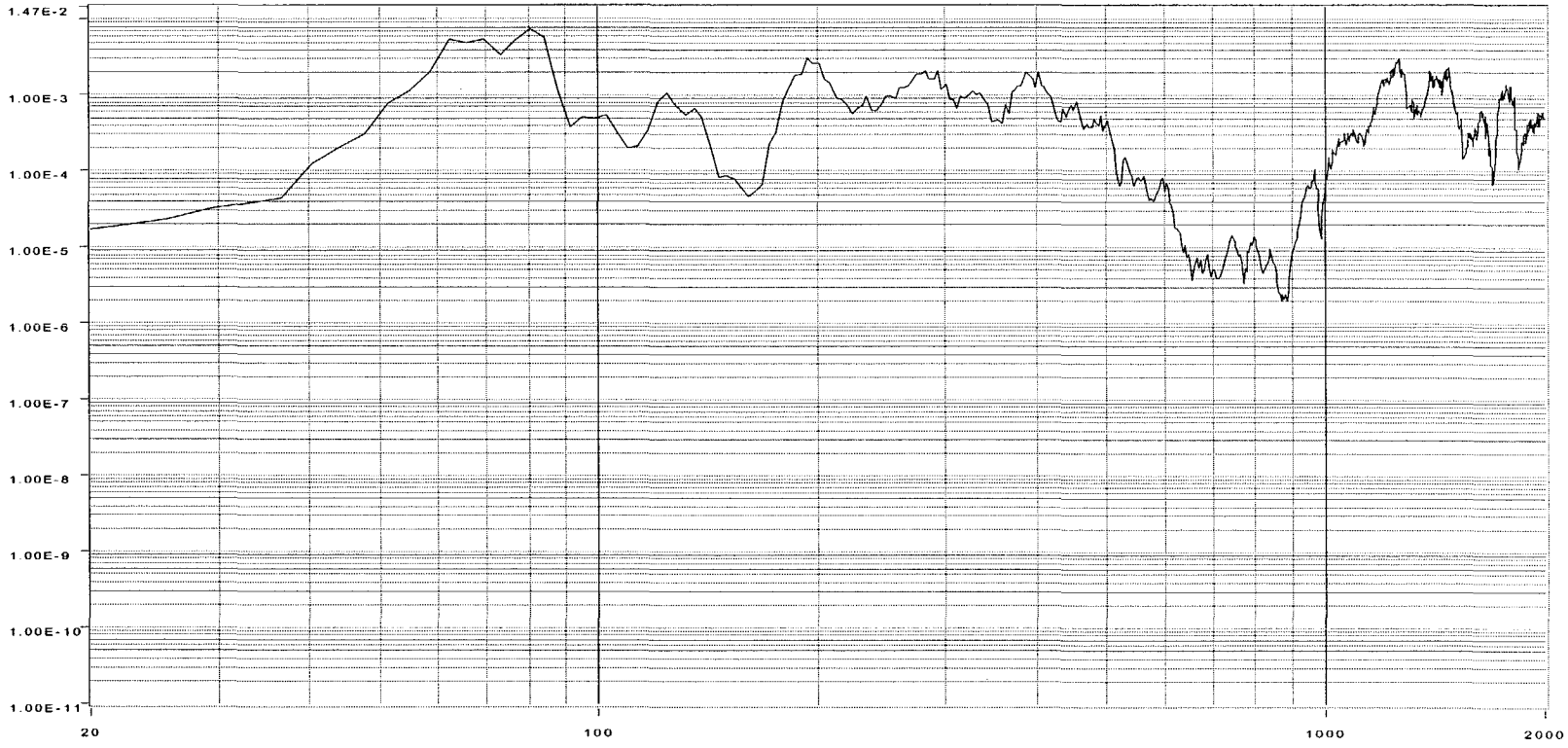
Channel #: 50 Node Number: 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 46.00

RMS= 1.134E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

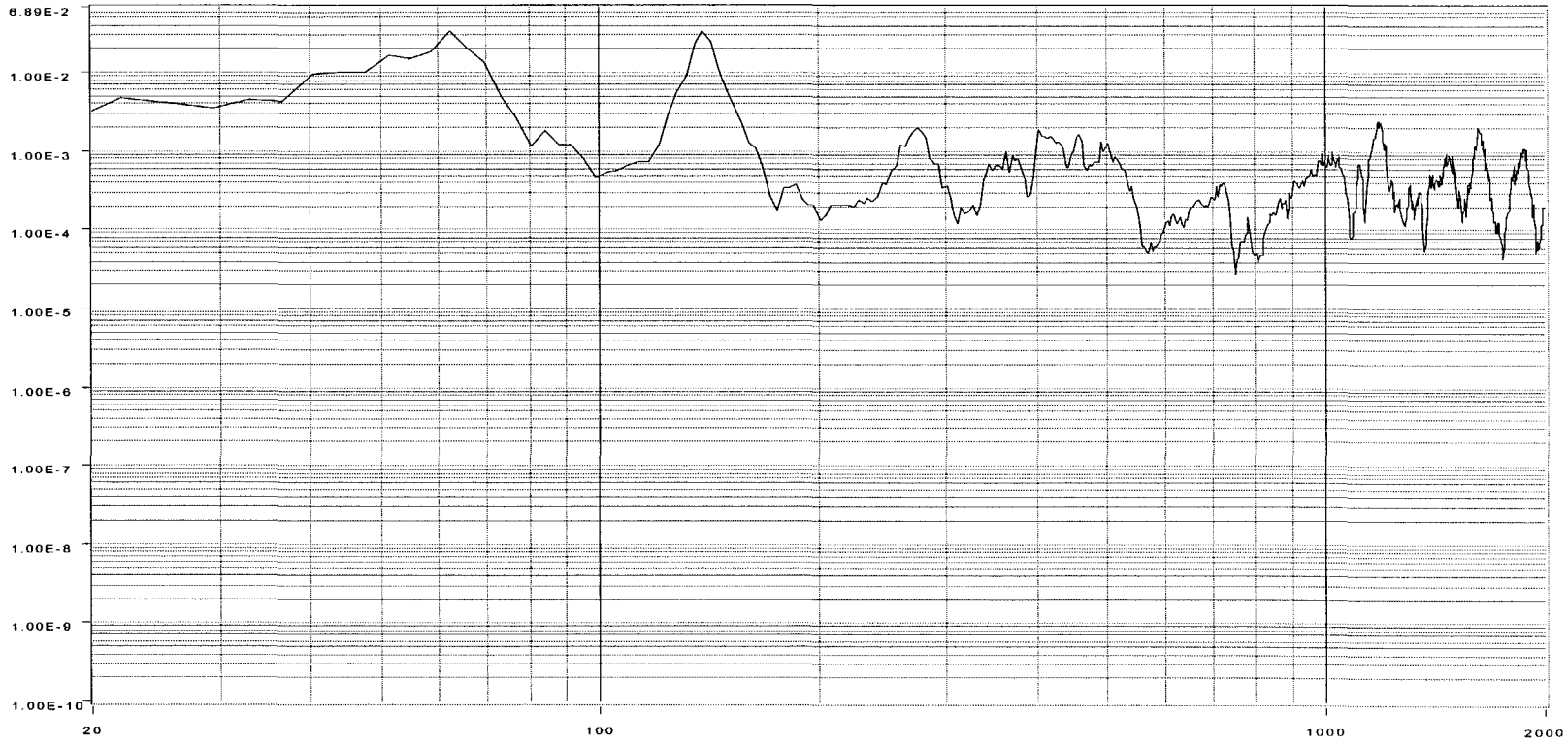
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 46.00

RMS= 1.425E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

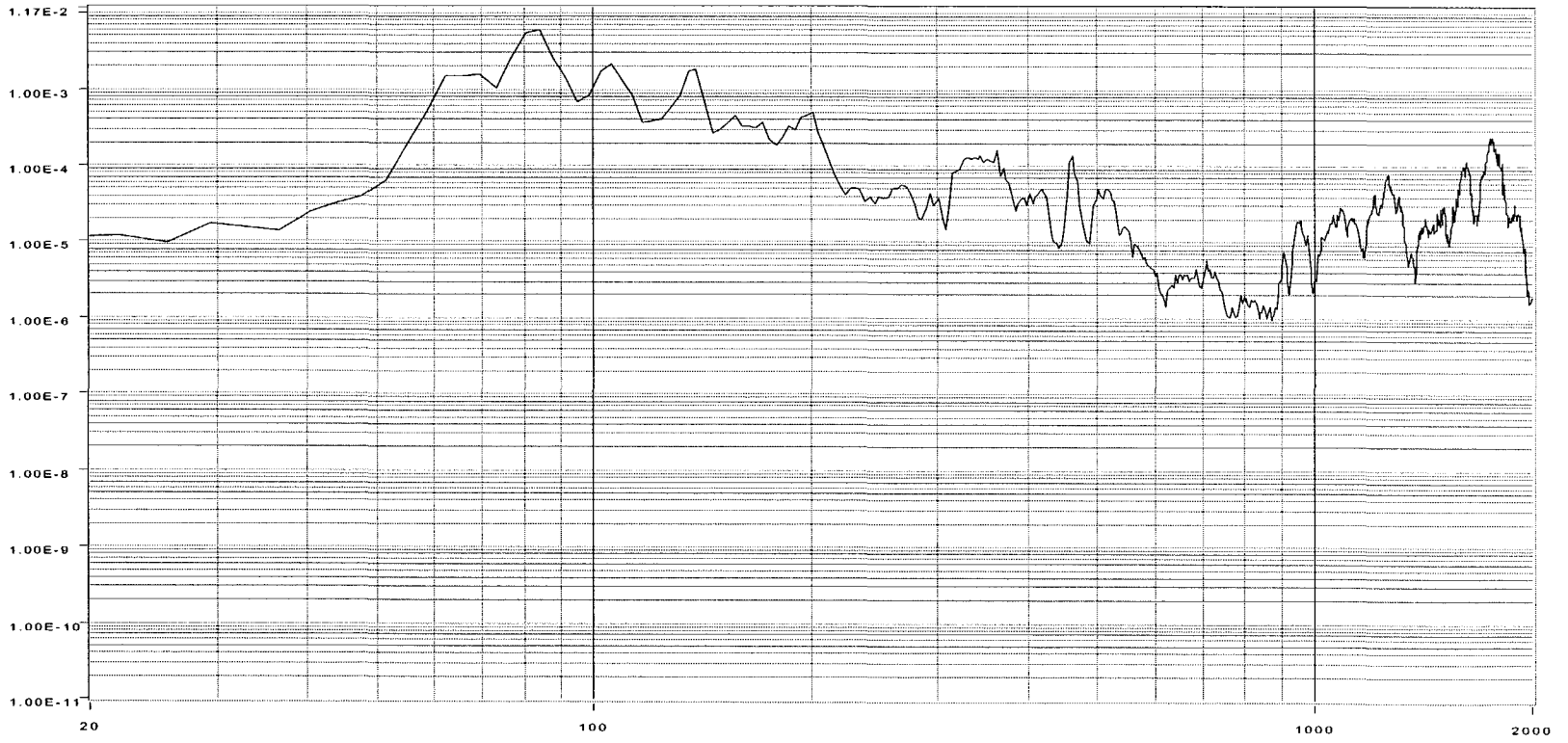
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 46.00

RMS= 4.691E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

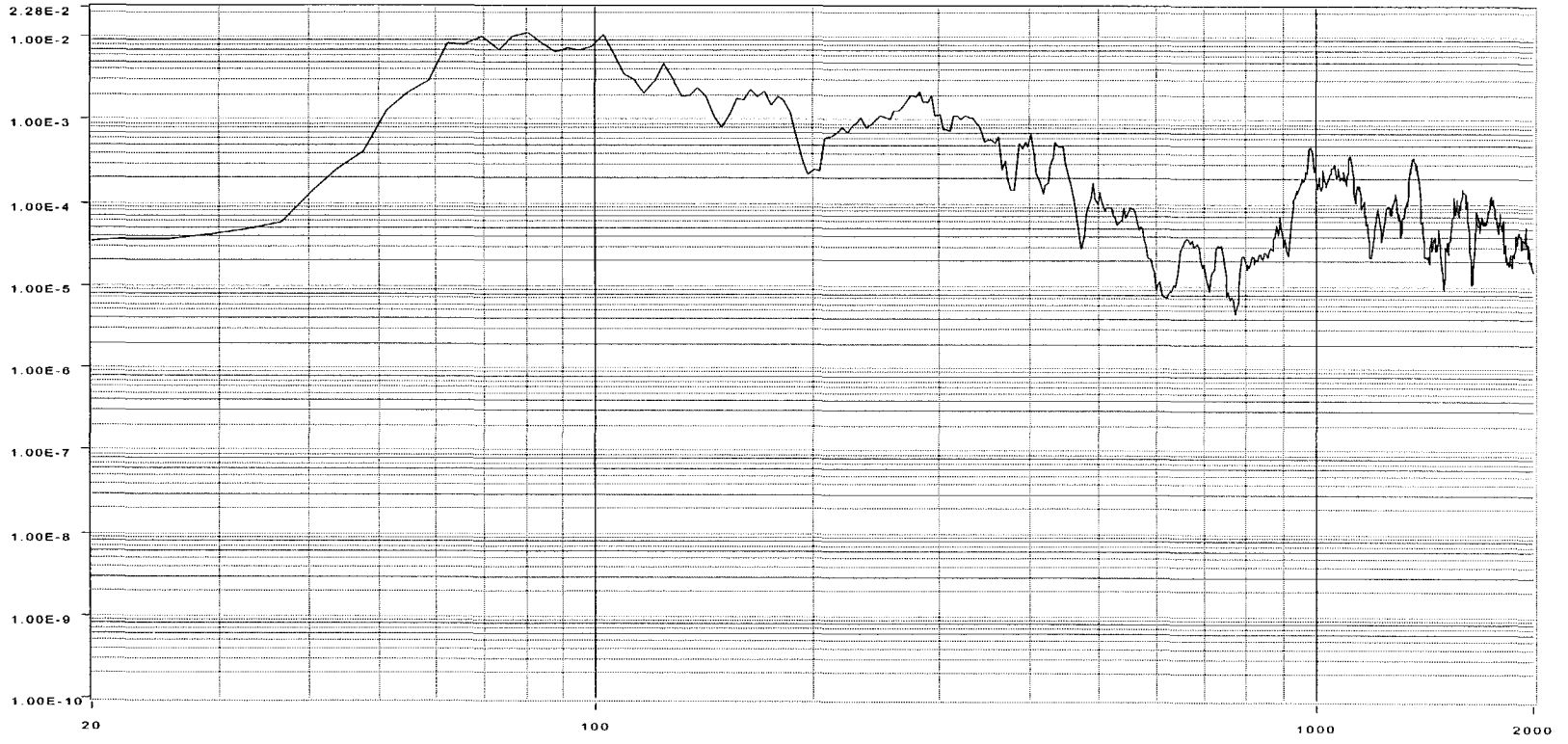
Channel #: 53 Node Number: 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 46.00

RMS= 9.634E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

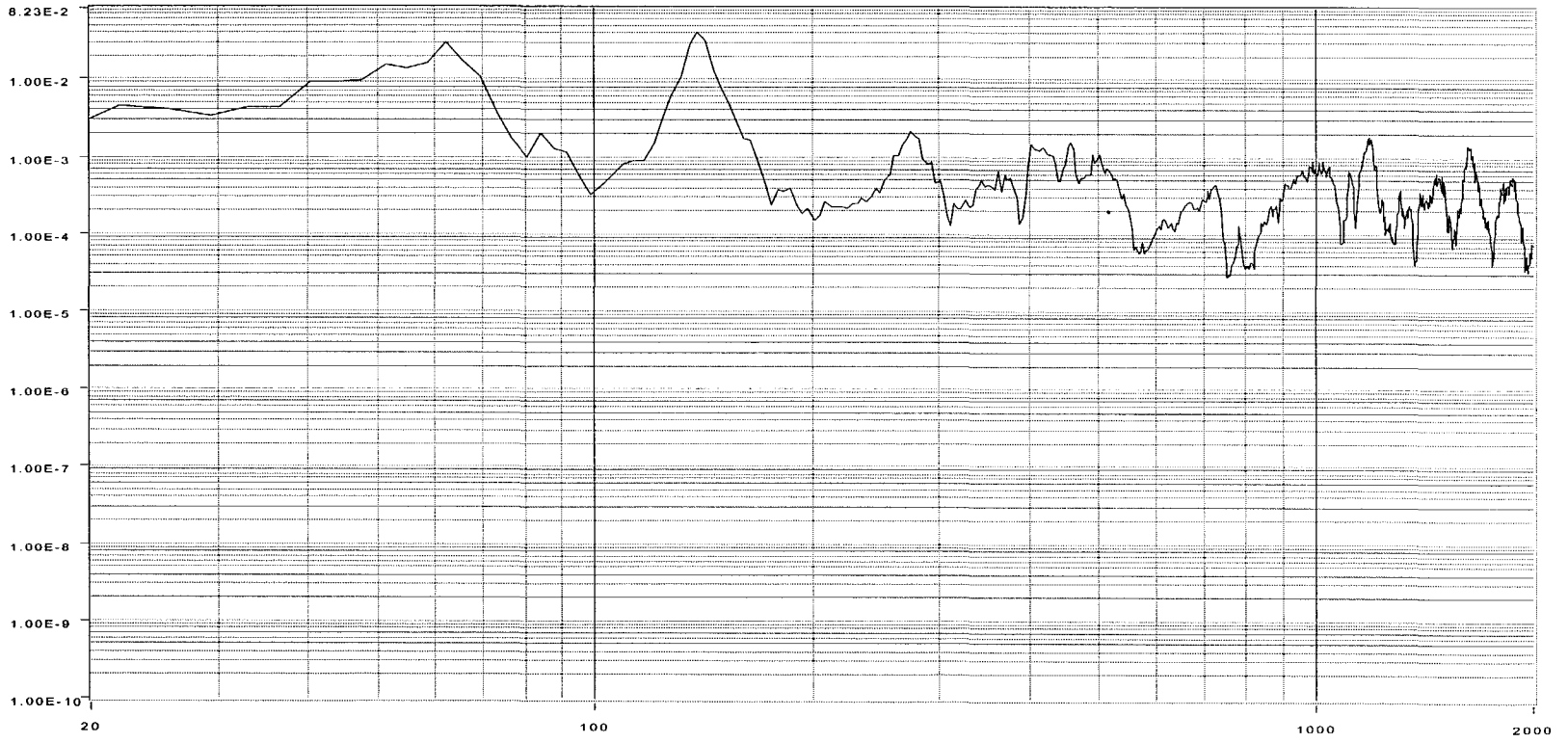
Channel #: 54 **Node Number:** 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 46.00

RMS= 1.375E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

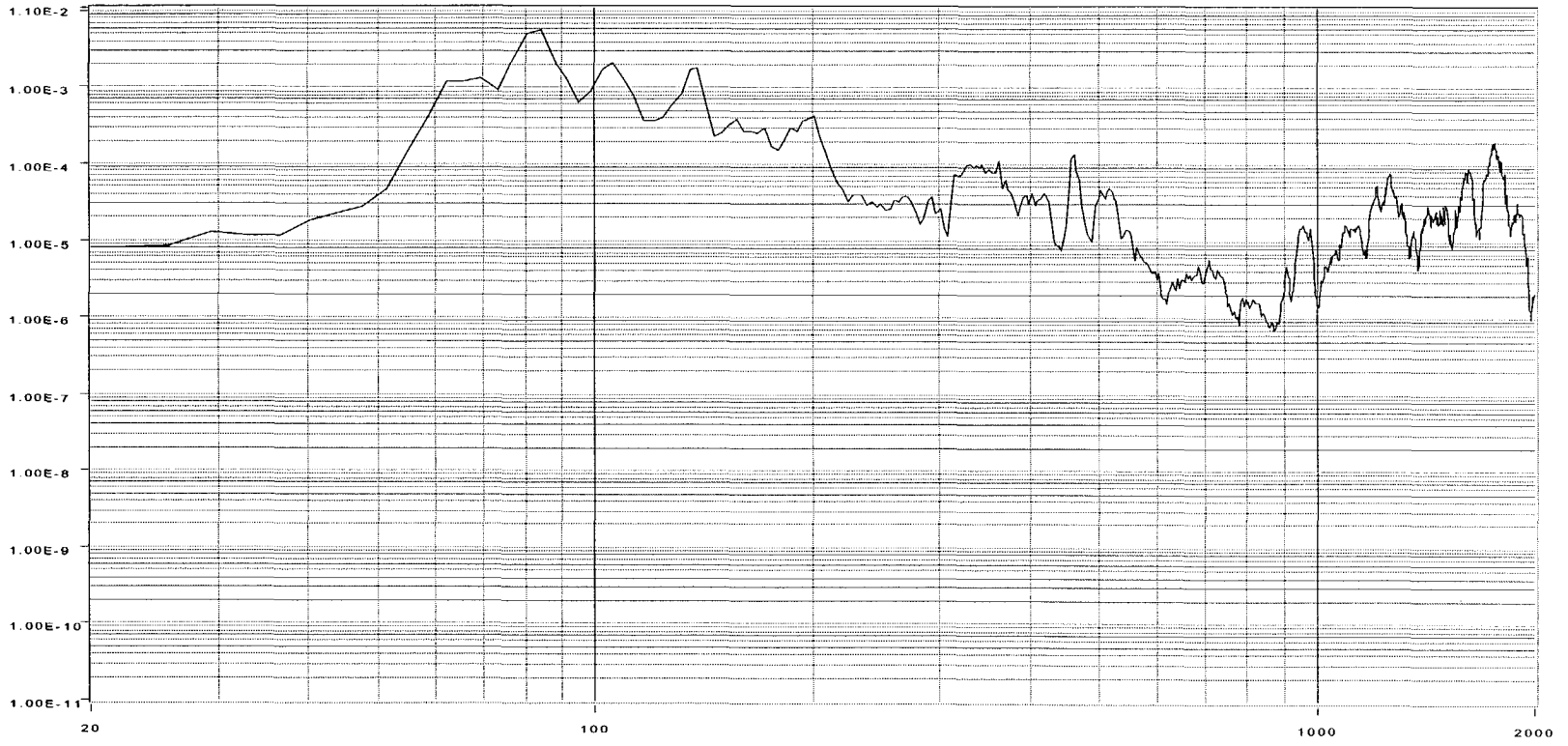
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 46.00

RMS= 4.450E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

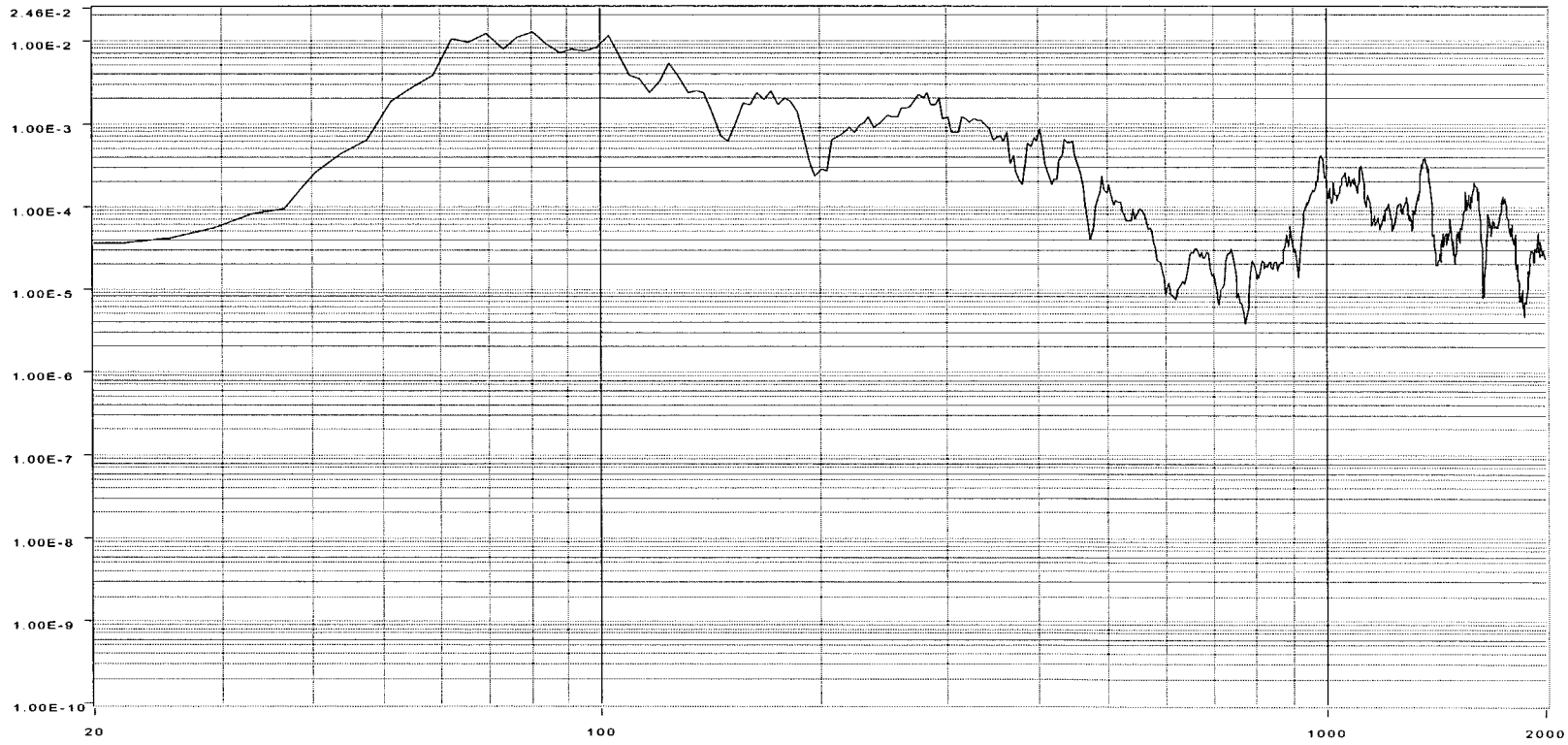
Channel #: 56 Node Number: 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 46.00

RMS= 1.006E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

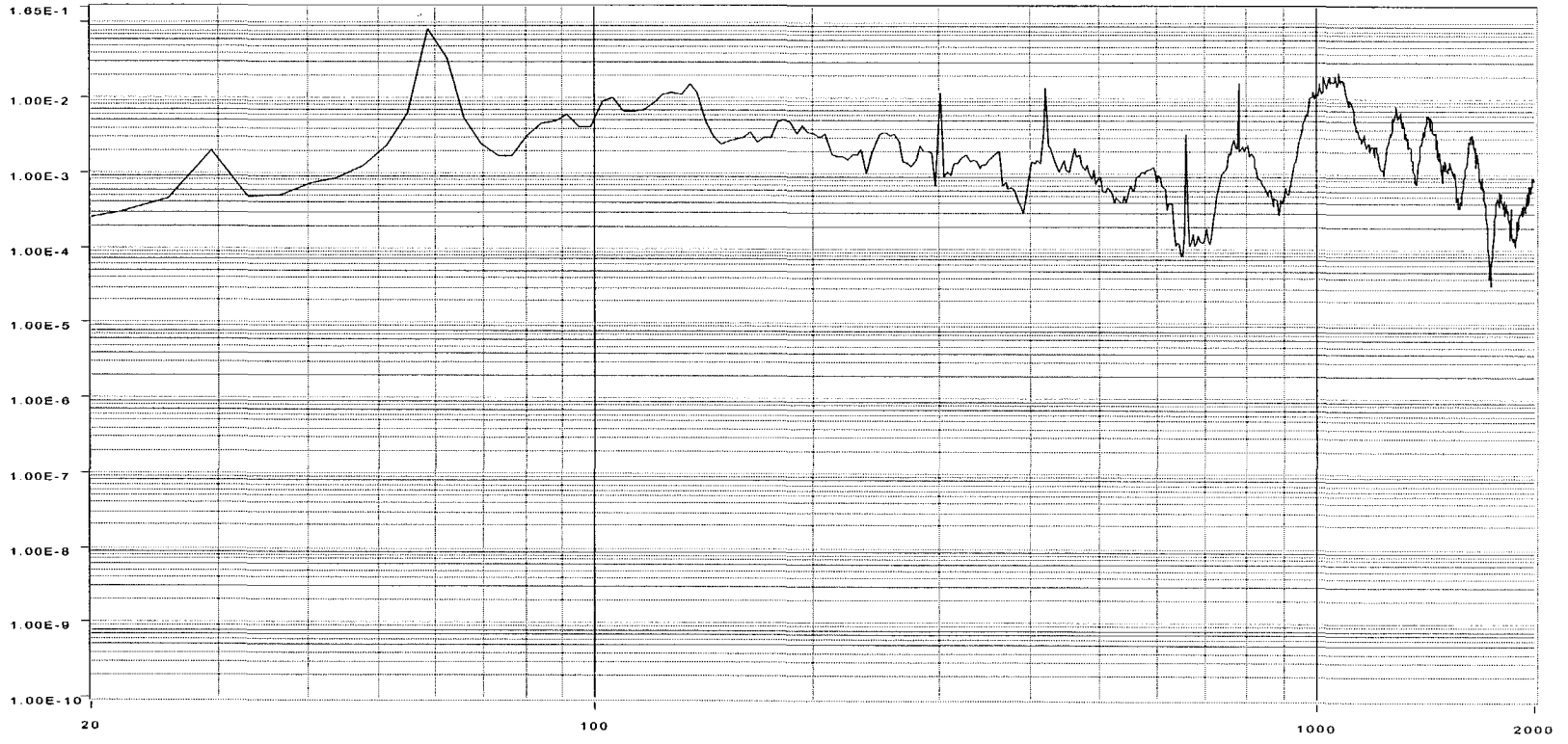
Channel #: 57 Node Number: 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 46.00

RMS= 2.439E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

Analysis Date & time: 6/24/02 3:47 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 3:29:8

Test title: HIRDLS VIBRATION TEST: X-AXIS -6db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062403

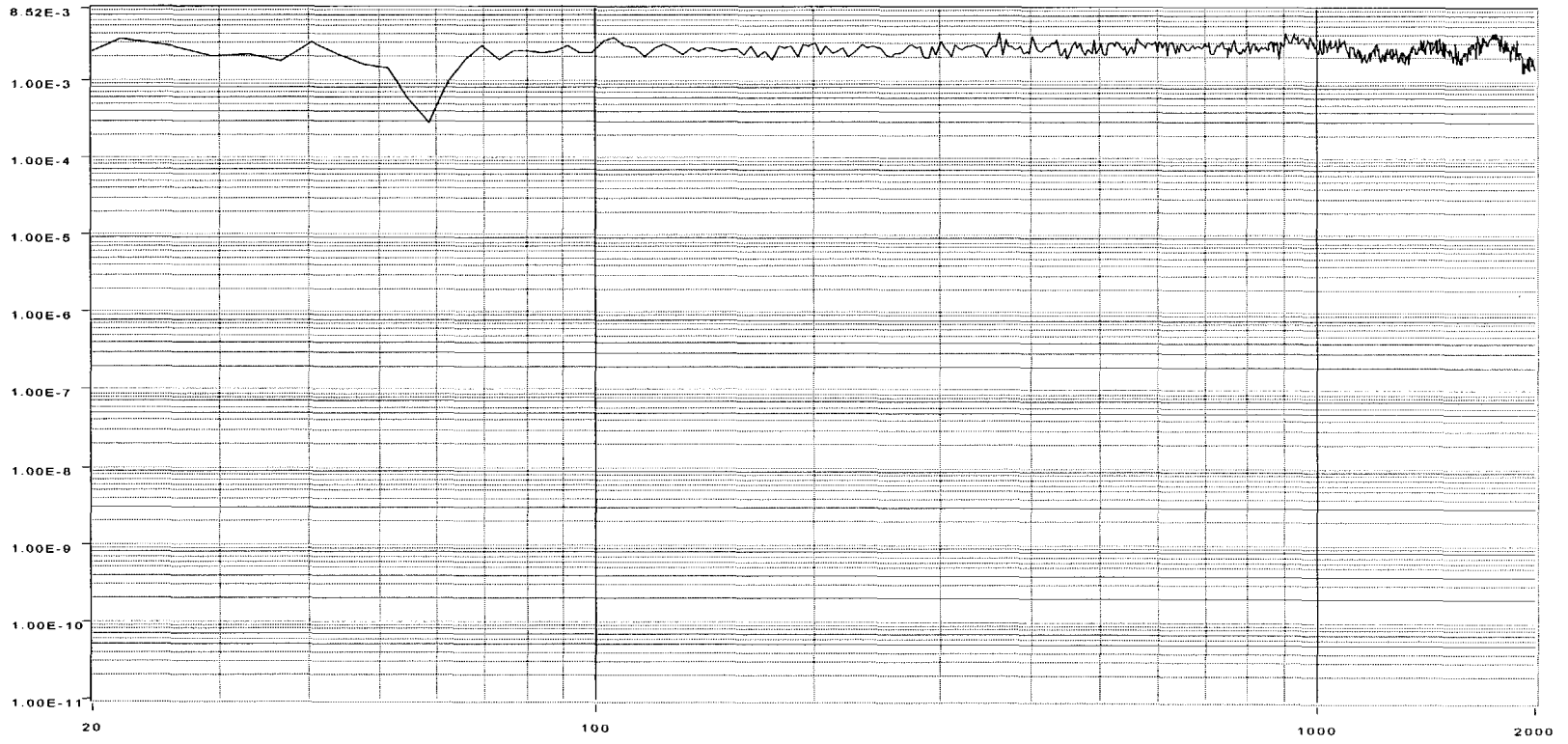
Test description: HIRDLS VIBRATION TEST: X-AXIS -6db random

Part number/id: Y4011

Average of Channels: 1 & 4

Start Time: 46.00

RMS= 2.278E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

Average of Channels: 1 & 4

Analysis Date & time: 6/24/02 3:48 AM Spectrum Type: Power Spectral Density (PSD)

ch_#	channel_label	Max_G_Resp.	Frequency
1	North_Control_X	0.0084	1758.2417
2	North_Control_Y	0.0014	1212.4542
3	North_Control_Z	0.0627	1893.7729
4	South_Control_X	0.0071	908.4249
5	South_Control_Y	0.0012	1670.3297
6	South_Control_Z	0.0023	1197.8022
7	A5 X	0.0363	930.4030
8	A5 Y	0.0102	1208.7913
9	A5 Z	0.0054	1208.7913
10	A6 X	0.0677	1208.7913
11	A6 Y	0.0121	1164.8352
12	A6 Z	0.0666	1095.2380
17	A7 X	0.0898	1351.6483
18	A7 Y	0.0347	1278.3883
19	A7 Z	0.0070	1802.1978
20	A8 X	0.1083	1289.3773
21	A8 Y	0.0294	956.0439
22	A8 Z	0.0541	1860.8059
23	A9 X	0.0757	1289.3773
24	A9 Y	0.0153	1142.8572
25	A9 Z	0.0102	1750.9158
26	A10 X	0.0206	1860.8059
27	A10 Y	0.0249	1842.4908
28	A10 Z	0.0519	1860.8059
31	DRIVE	0.0001	362.6374
32	COLA	0.0001	362.6374
33	A1X: +Y PANEL UPPER	0.0728	62.2711
34	A1Y: +Y PANEL UPPER	0.0111	84.2491
35	A1Z: +Y PANEL UPPER	0.0030	106.2271
36	A1RX: +Y PANEL UPPER	0.0651	62.2711
37	A1RY: +Y PANEL UPPER	0.0101	142.8571
38	A1RZ: +Y PANEL UPPER	0.0026	106.2271
39	A2X: +Y PANEL LOWER TEU	0.0193	139.1941
40	A2Y: +Y PANEL LOWER TEU	0.0331	139.1941
41	A2Z: +Y PANEL LOWER TEU	0.0032	106.2271
42	A2RX: +Y PANEL LOWER TEU	0.0186	139.1941
43	A2RY: +Y PANEL LOWER TEU	0.0347	139.1941
44	A2RZ: +Y PANEL LOWER TEU	0.0032	106.2271
45	A3X: +X PANEL UPPER CCU	2.9164	62.2711
46	A3Y: +X PANEL UPPER CCU	0.0156	62.2711
47	A3Z: +X PANEL UPPER CCU	0.0045	84.2491
48	A3RX: +X PANEL UPPER CCU	0.0483	62.2711
49	A3RY: +X PANEL UPPER CCU	0.0129	62.2711
50	A3RZ: +X PANEL UPPER CCU	0.0074	80.5861
51	A4X: +Y PANEL MID-CMU	0.0344	139.1941
52	A4Y: +Y PANEL MID-CMU	0.0059	84.2491
53	A4Z: +Y PANEL MID-CMU	0.0114	80.5861
54	A4RX: +Y PANEL MID-CMU	0.0412	139.1941
55	A4RY: +Y PANEL MID-CMU	0.0055	84.2491
56	A4RZ: +Y PANEL MID-CMU	0.0123	80.5861
57	F1: FLY AWAY	0.0824	58.6081

ch_#	channel_label	Max_G_Resp.	Frequency
N/A	Average of Channels: 1 & 4	0.0043	1758.2417

ch_#	channel_label	Max_G_Resp.	Frequency
1	North_Control_X	0.0248	1798.5348
2	North_Control_Y	0.0041	1197.8022
3	North_Control_Z	0.2732	1937.7289
4	South_Control_X	0.0291	608.0586
5	South_Control_Y	0.0051	1641.0256
6	South_Control_Z	0.0141	1197.8022
7	A5 X	0.1563	937.7289
8	A5 Y	0.0098	1241.7583
9	A5 Z	0.0388	1798.5348
10	A6 X	0.2900	937.7289
11	A6 Y	0.0243	1157.5092
12	A6 Z	0.3678	1758.2417
17	A7 X	0.2235	1351.6483
18	A7 Y	0.2613	1282.0513
19	A7 Z	0.0414	1604.3956
20	A8 X	0.6168	1322.3444
21	A8 Y	0.0864	948.7180
22	A8 Z	0.4538	1838.8279
23	A9 X	0.7296	1304.0293
24	A9 Y	0.2090	1128.2051
25	A9 Z	0.0448	1498.1685
26	A10 X	0.1021	1260.0732
27	A10 Y	0.3015	1322.3444
28	A10 Z	0.1615	1838.8279
31	DRIVE	0.0004	21.9780
32	COLA	0.0001	21.9780
33	A1X: +Y PANEL UPPER	0.2069	139.1941
34	A1Y: +Y PANEL UPPER	6.7896	51.2821
35	A1Z: +Y PANEL UPPER	0.0193	1758.2417
36	A1RX: +Y PANEL UPPER	0.1843	139.1941
37	A1RY: +Y PANEL UPPER	0.0427	84.2491
38	A1RZ: +Y PANEL UPPER	0.0082	91.5751
39	A2X: +Y PANEL LOWER TEU	0.0607	139.1941
40	A2Y: +Y PANEL LOWER TEU	0.1061	139.1941
41	A2Z: +Y PANEL LOWER TEU	0.0088	91.5751
42	A2RX: +Y PANEL LOWER TEU	0.0573	139.1941
43	A2RY: +Y PANEL LOWER TEU	0.1108	139.1941
44	A2RZ: +Y PANEL LOWER TEU	0.0089	91.5751
45	A3X: +X PANEL UPPER CCU	0.3423	62.2711
46	A3Y: +X PANEL UPPER CCU	0.0598	62.2711
47	A3Z: +X PANEL UPPER CCU	0.0279	1260.0732
48	A3RX: +X PANEL UPPER CCU	0.1375	62.2711
49	A3RY: +X PANEL UPPER CCU	0.0510	62.2711
50	A3RZ: +X PANEL UPPER CCU	0.0363	1260.0732
51	A4X: +Y PANEL MID-CMU	0.1150	139.1941
52	A4Y: +Y PANEL MID-CMU	0.0213	80.5861
53	A4Z: +Y PANEL MID-CMU	0.0370	76.9231
54	A4RX: +Y PANEL MID-CMU	0.1358	139.1941
55	A4RY: +Y PANEL MID-CMU	0.0198	80.5861
56	A4RZ: +Y PANEL MID-CMU	0.0402	76.9231
57	F1: FLY AWAY	0.0934	1076.9231

ch_#	channel_label	Max_G_Resp.	Frequency
N/A	Average of Channels: 1 & 4	0.0163	901.0989

LOCKHEED MARTIN MISSILES & SPACE

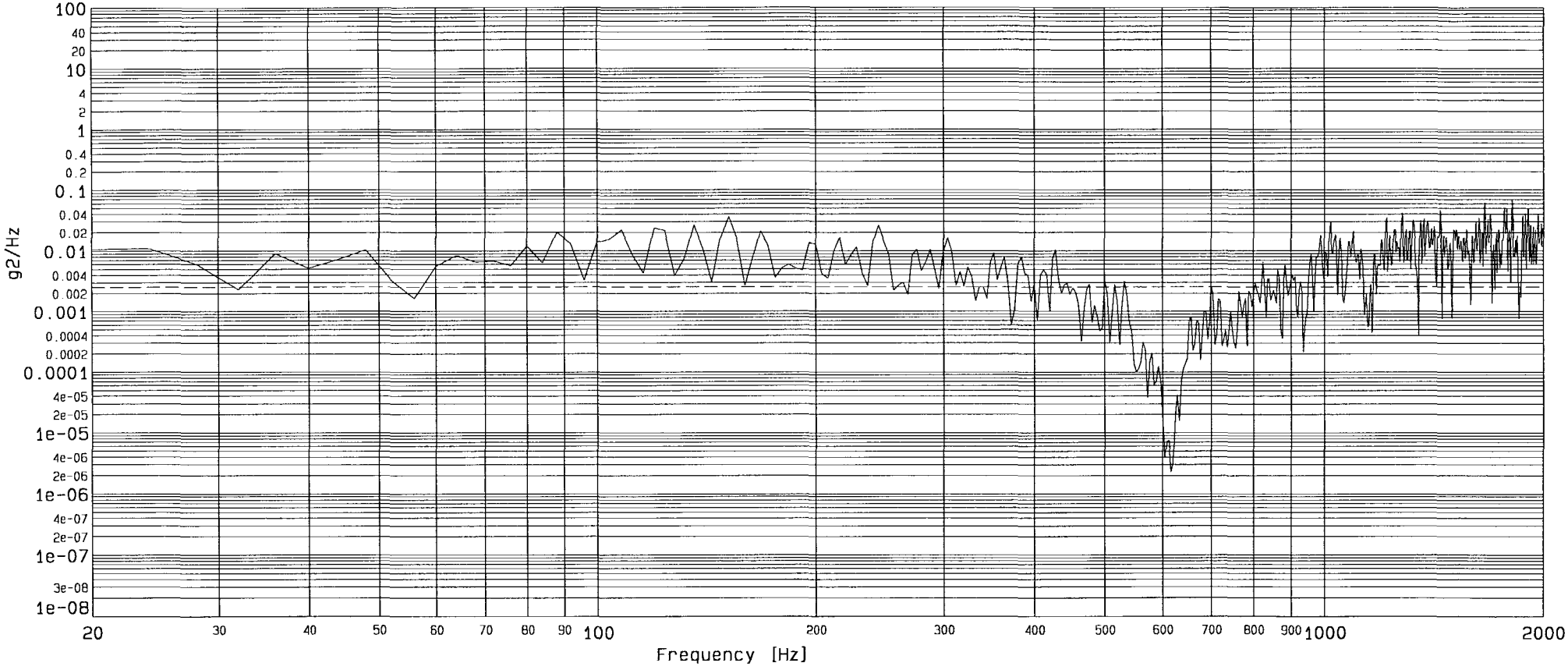
Project : hirdls
Test : X_HIRDLS_RAN
Run : 3 062404

Date : 24-06-02
Time : 04: 12: 40
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00: 01: 00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 4.33 g
Number of averages : 3

Trace identification :
N_CONTROL_X
Reference
Upper Ab
Lower Ab



HIRDLS X AXIS 0dB

run 062404

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

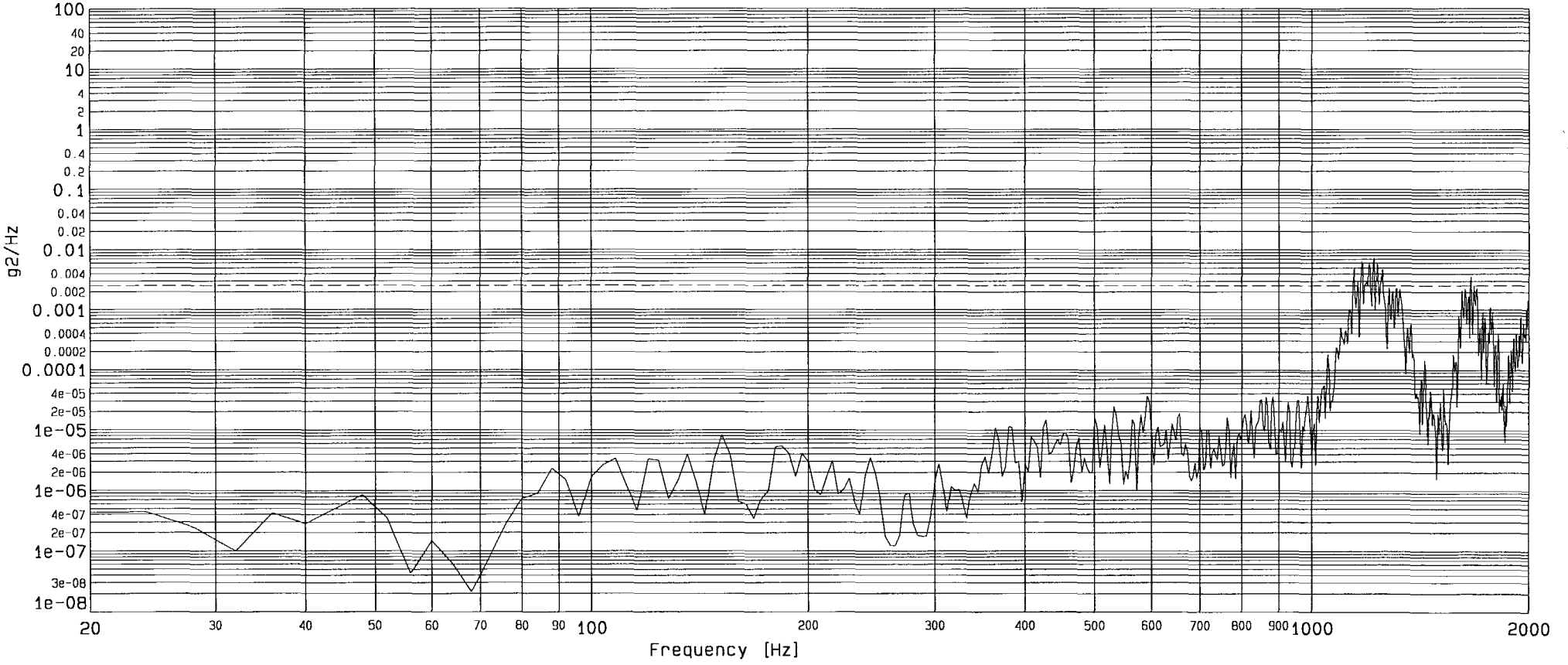
Project : hirdls
Test : X_HIRDLS_RAN
Run : 3 062404

Date : 24-06-02
Time : 04: 12: 40
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00: 01: 00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 877.14e-03 g
Number of averages : 3

Trace identification :
N_CONTROL_Y
Reference
Upper Ab
Lower Ab



HIRDLS X AXIS 0dB

run 062404

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

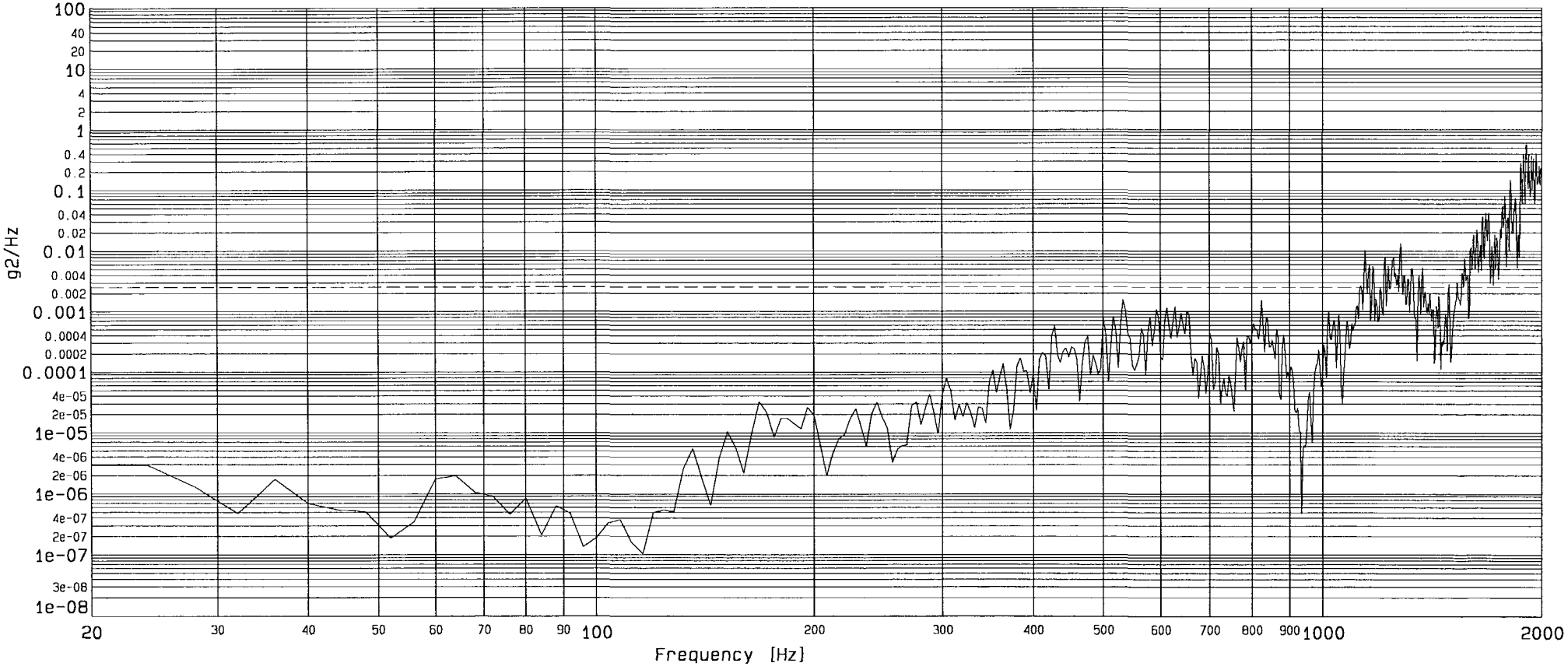
Project : hirdls
Test : X_HIRDLS_RAN
Run : 3 062404

Date : 24-06-02
Time : 04: 12: 40
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00: 01: 00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 5.92 g
Number of averages : 3

Trace identification :
N_CONTROL_Z
Reference
Upper Ab
Lower Ab



HIRDLS X AXIS 0dB

run 062404

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

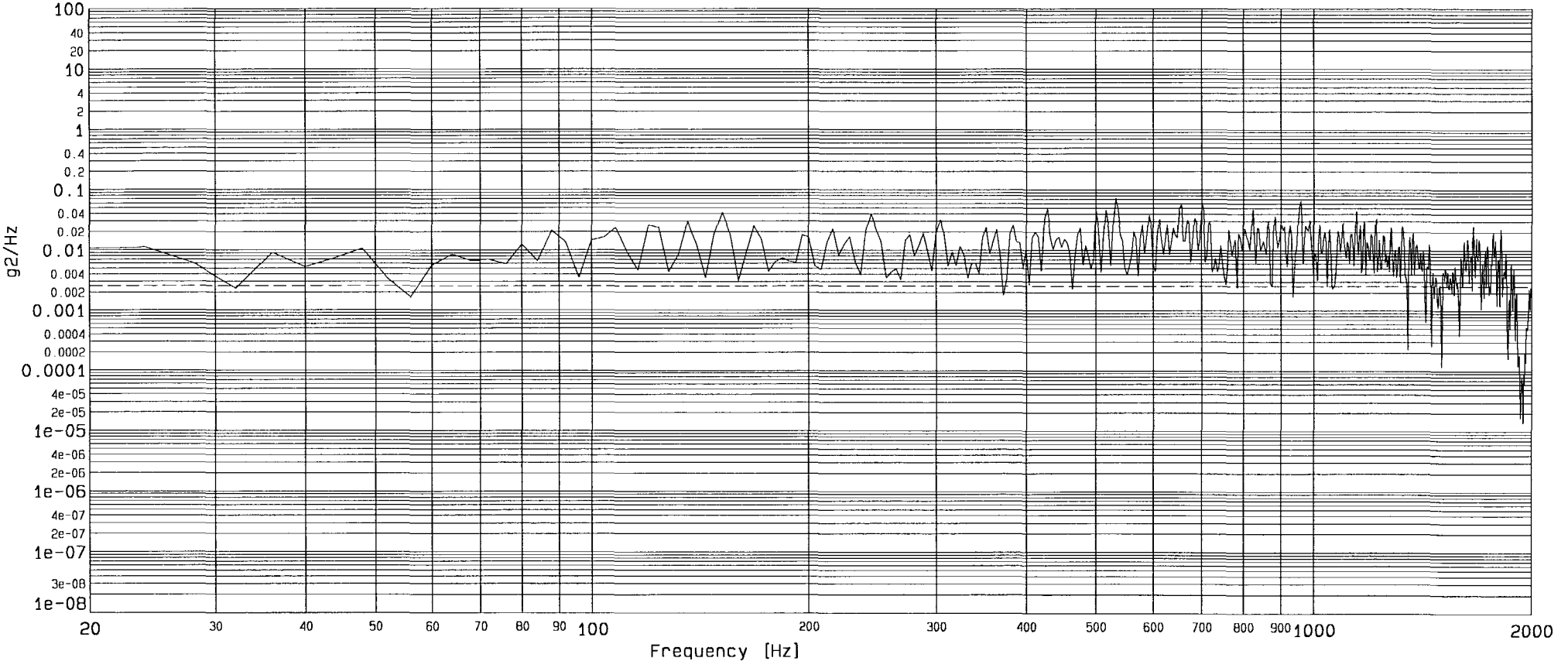
Project : hirdls
Test : X_HIRDLS_RAN
Run : 3 062404

Date : 24-06-02
Time : 04: 12: 40
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00: 01: 00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 4.78 g
Number of averages : 3

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS 0dB

run 062404

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

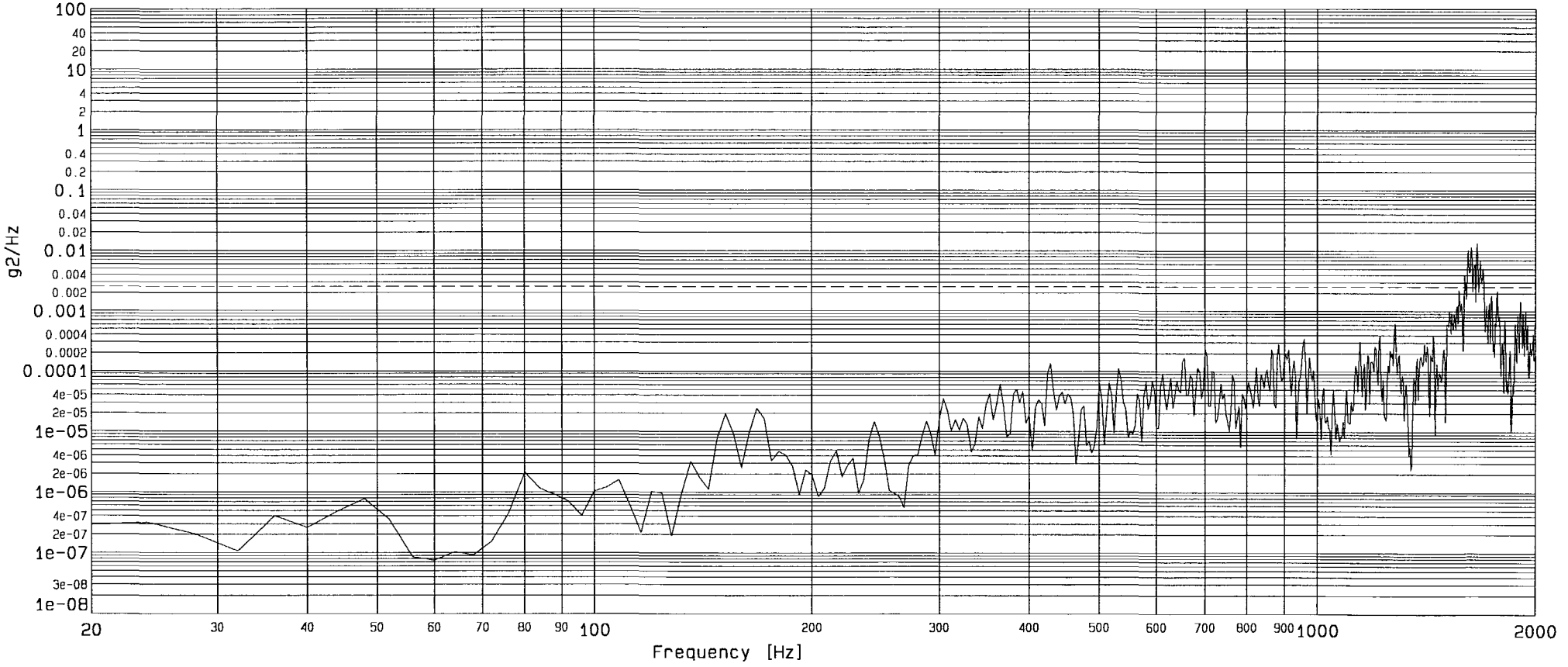
Project : hirdls
Test : X_HIRDLS_RAN
Run : 3 062404

Date : 24-06-02
Time : 04: 12: 40
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00: 01: 00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 921.39e-03 g
Number of averages : 3

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS 0dB

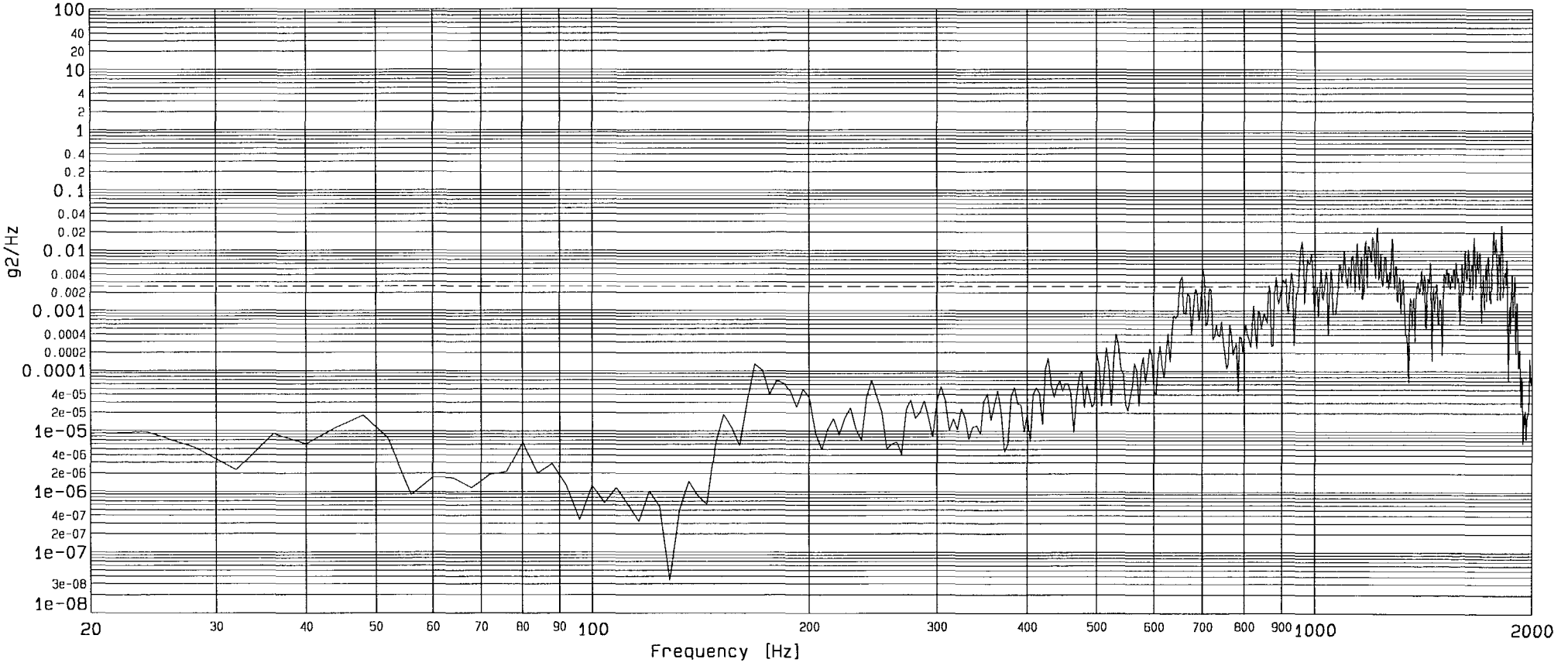
run 062404

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

Project	: hirdls	Date :	24-06-02
Test	: X_HIRDLS_RAN	Time :	04: 12: 40
Run	: 3 062404	Mode :	Random Vibration Control

Test level	: 0.00 dB	PSD Level (RMS)	: 2.18 g	Trace identification :	S_CONTROL_Z
Elapsed time	: 00: 01: 00.2	Number of averages	: 3		Reference
Degrees of freedom	: 280				Upper Ab
Control strategy	: Average				Lower Ab
Frequency resolution	: 4 Hz				



HIRDLS X AXIS 0dB

run 062404

date 06-24-02

LOCKHEED MARTIN MISSILES & SPACE

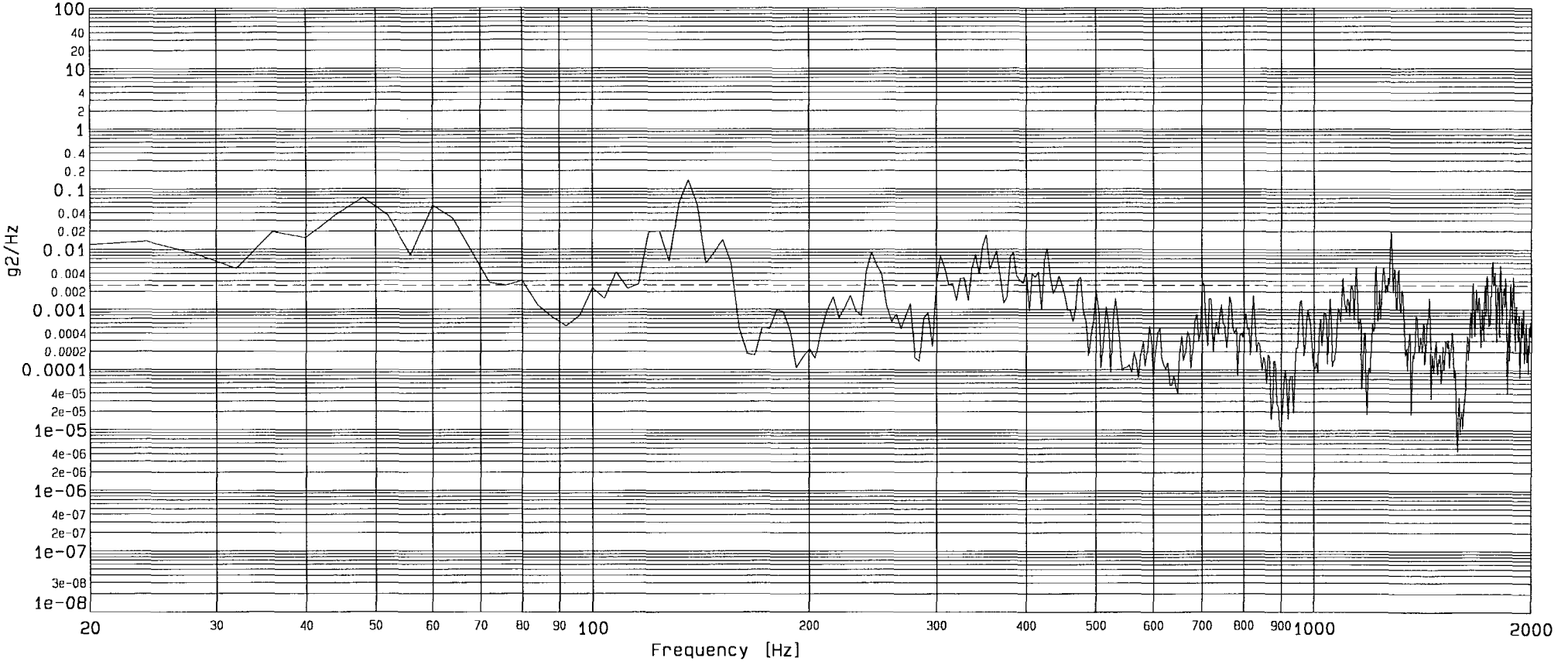
Project : hirdls
Test : X_HIRDLS_RAN
Run : 3 062404

Date : 24-06-02
Time : 04:12:40
Mode : Random Vibration Control

Test level : 0.00 dB
Elapsed time : 00:01:00.2
Degrees of freedom : 280
Control strategy : Average
Frequency resolution : 4 Hz

PSD Level (RMS) : 2.23 g
Number of averages : 3

Trace identification :
- A2X_YPANEL_TE
- Reference
- Upper Ab
- Lower Ab



HIRDLS X AXIS 0dB

run 062404

date 06-24-02

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

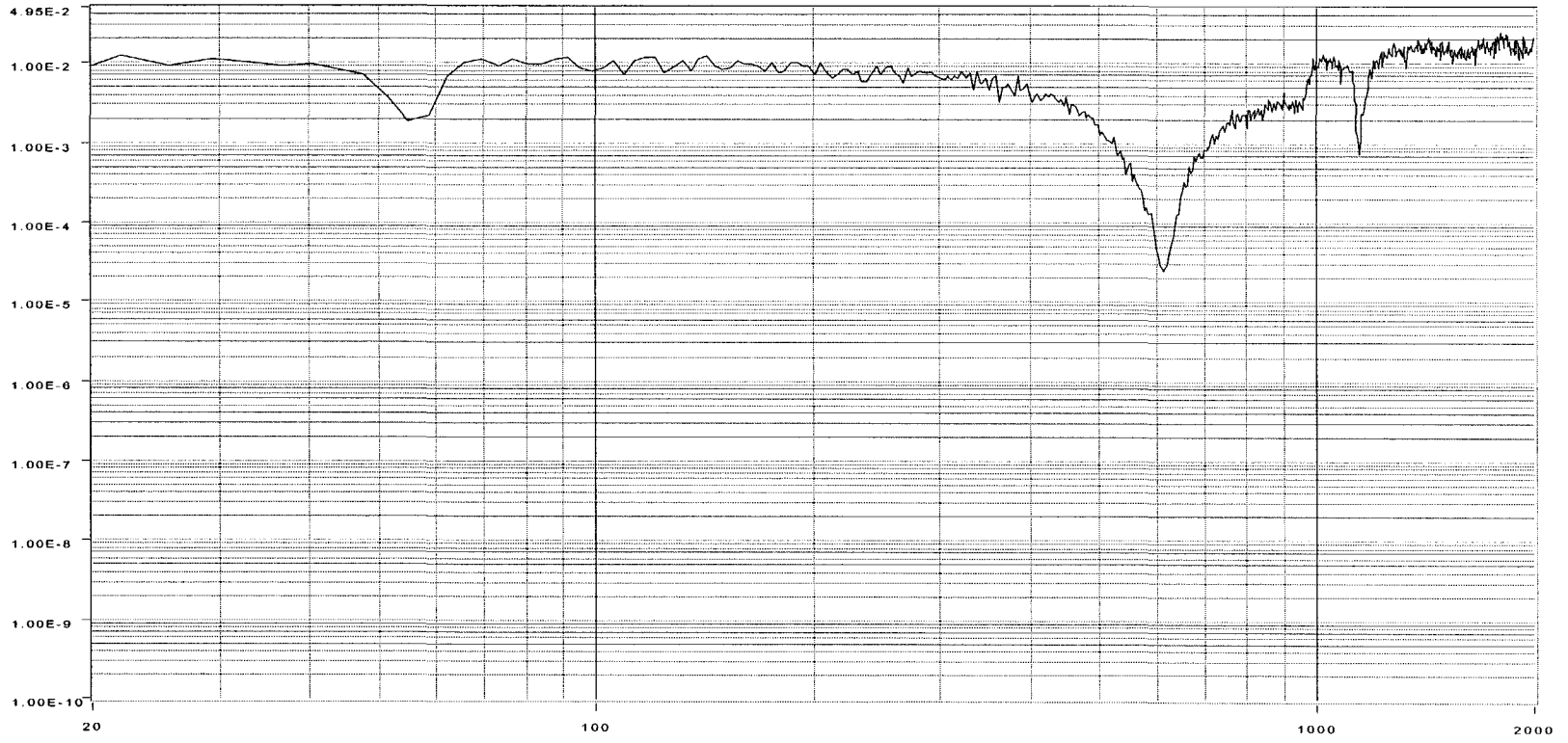
Channel #: 1 **Node Number:** 0001

Channel Label: North_Control_X

Channel Description:

Start Time: 96.00

RMS= 4.251E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_X

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

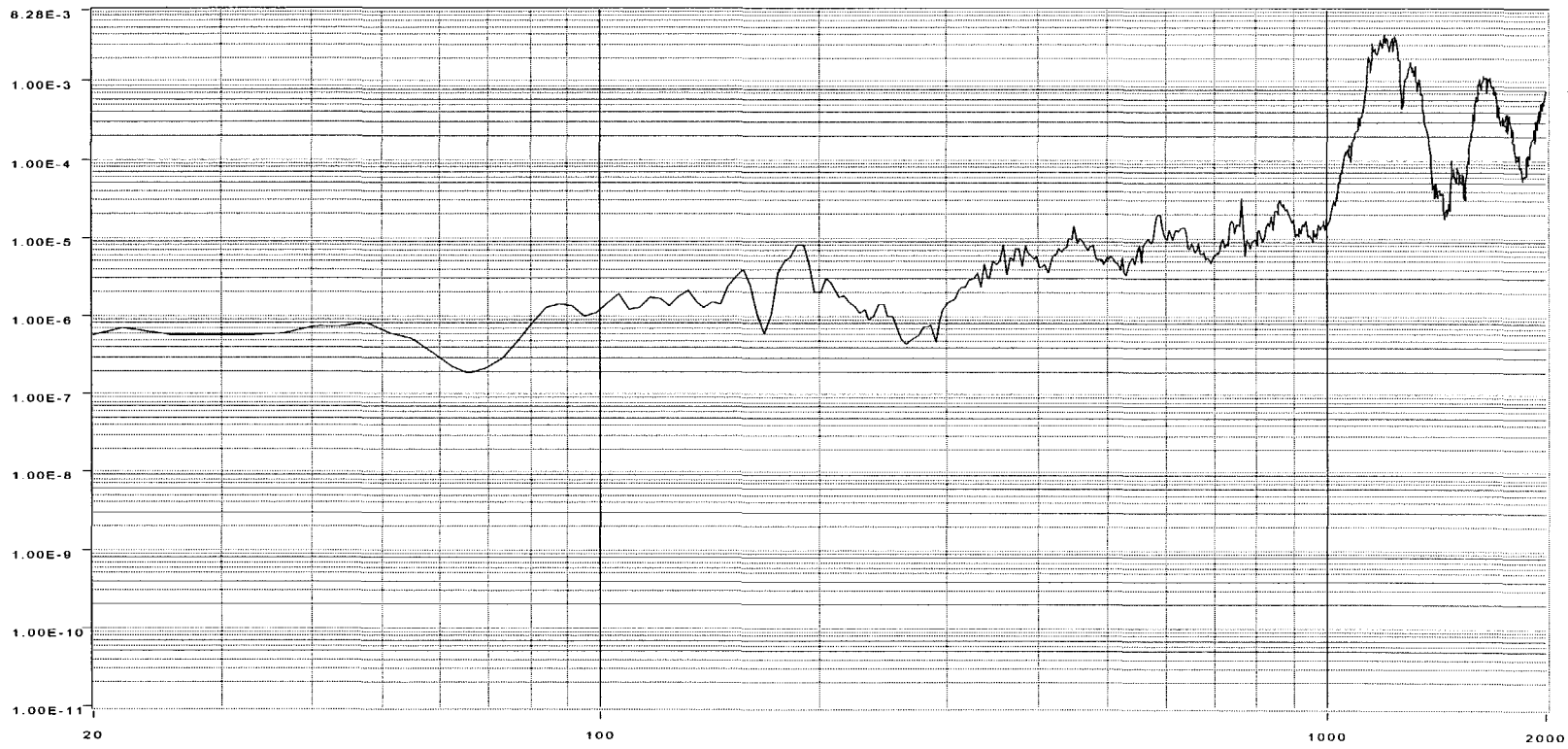
Channel #: 2 **Node Number:** 0002

Channel Label: North_Control_Y

Channel Description:

Start Time: 96.00

RMS= 8.211E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Y

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

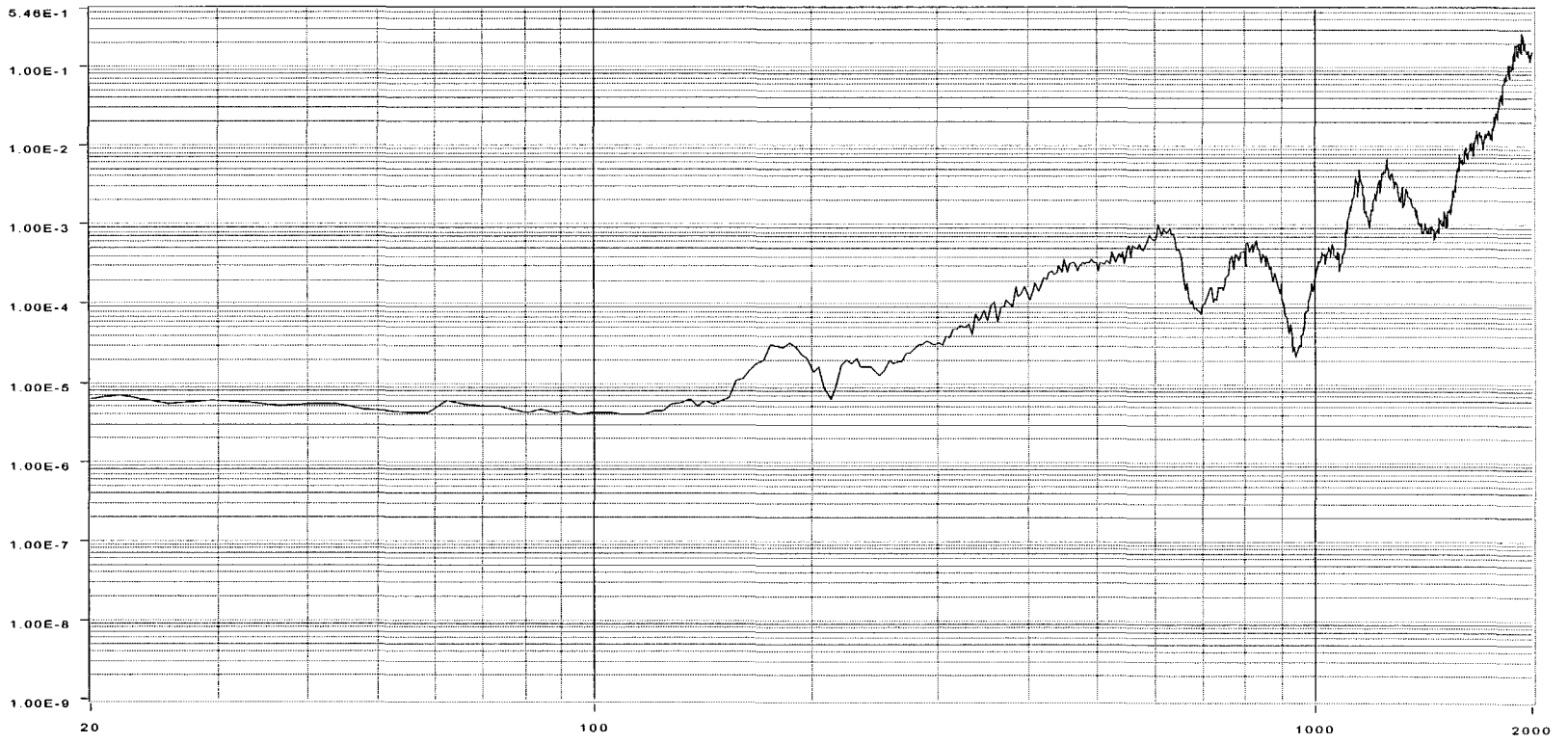
Channel #: 3 **Node Number:** 0003

Channel Label: North_Control_Z

Channel Description:

Start Time: 96.00

RMS= 5.376E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

North_Control_Z

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

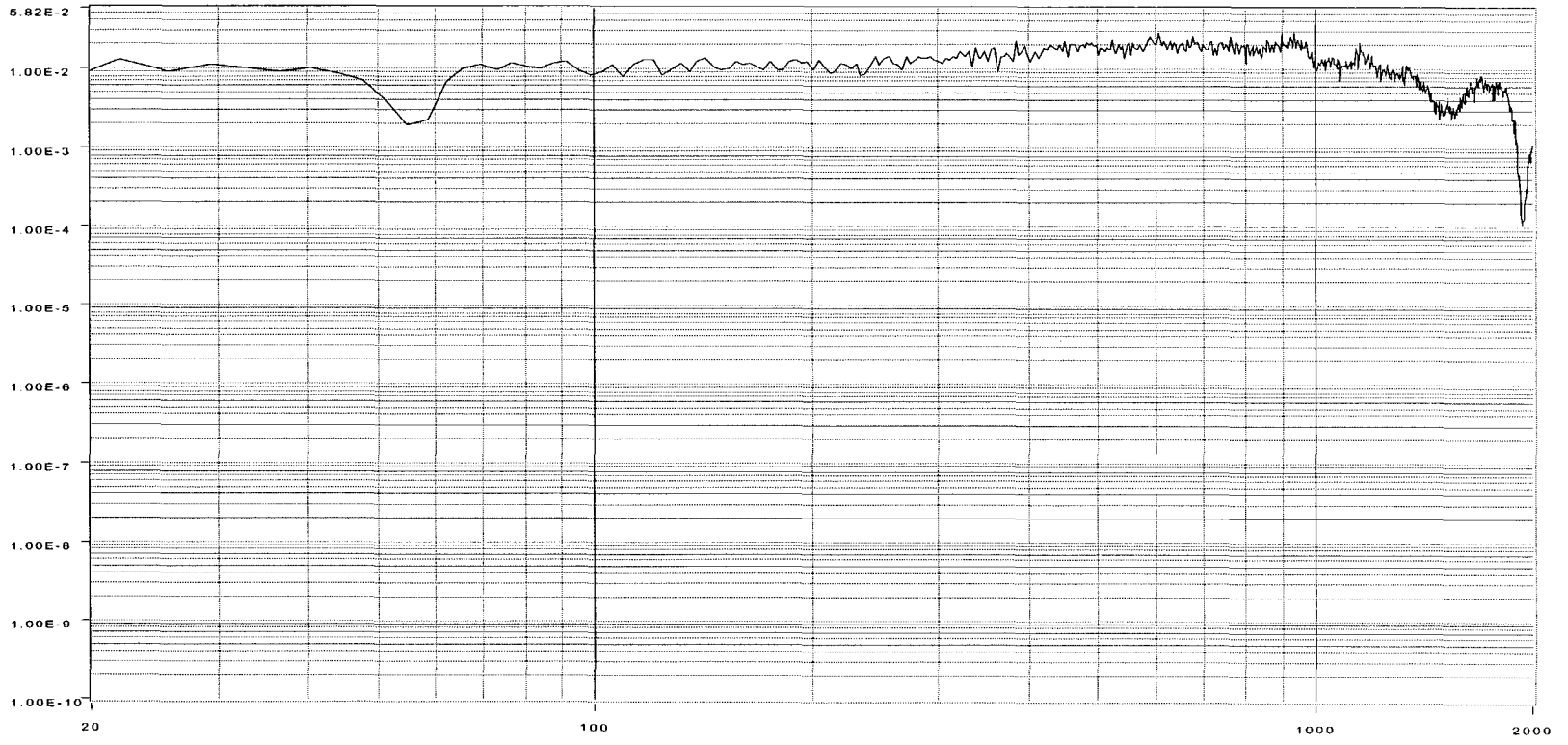
Channel #: 4 Node Number: 0004

Channel Label: South_Control_X

Channel Description: I

Start Time: 96.00

RMS= 4.766E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_X

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

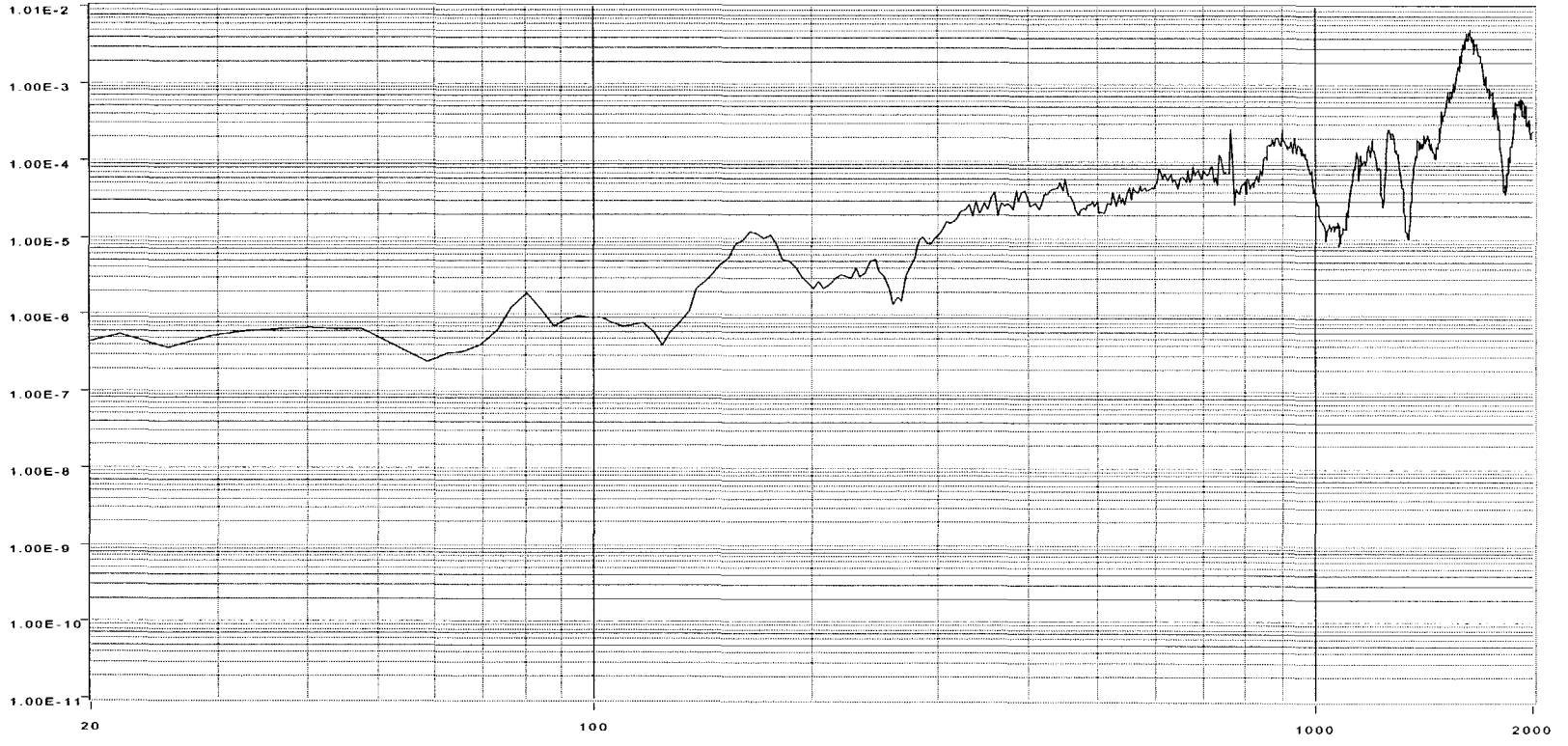
Channel #: 5 Node Number: 0005

Channel Label: South_Control_Y

Channel Description:

Start Time: 96.00

RMS= 8.306E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Y

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

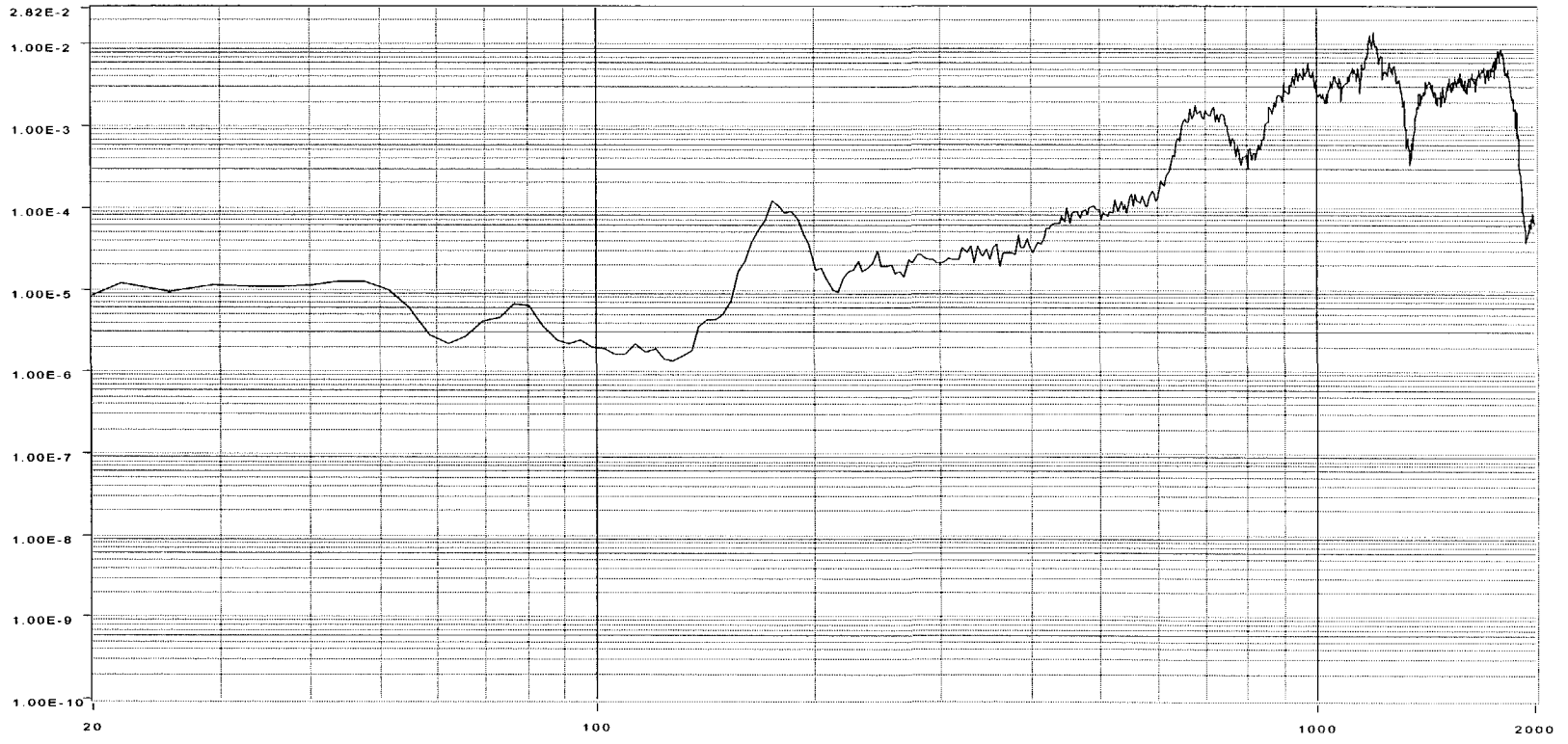
Channel #: 6 **Node Number:** 0006

Channel Label: South_Control_Z

Channel Description:

Start Time: 96.00

RMS= 2.051E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

South_Control_Z

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

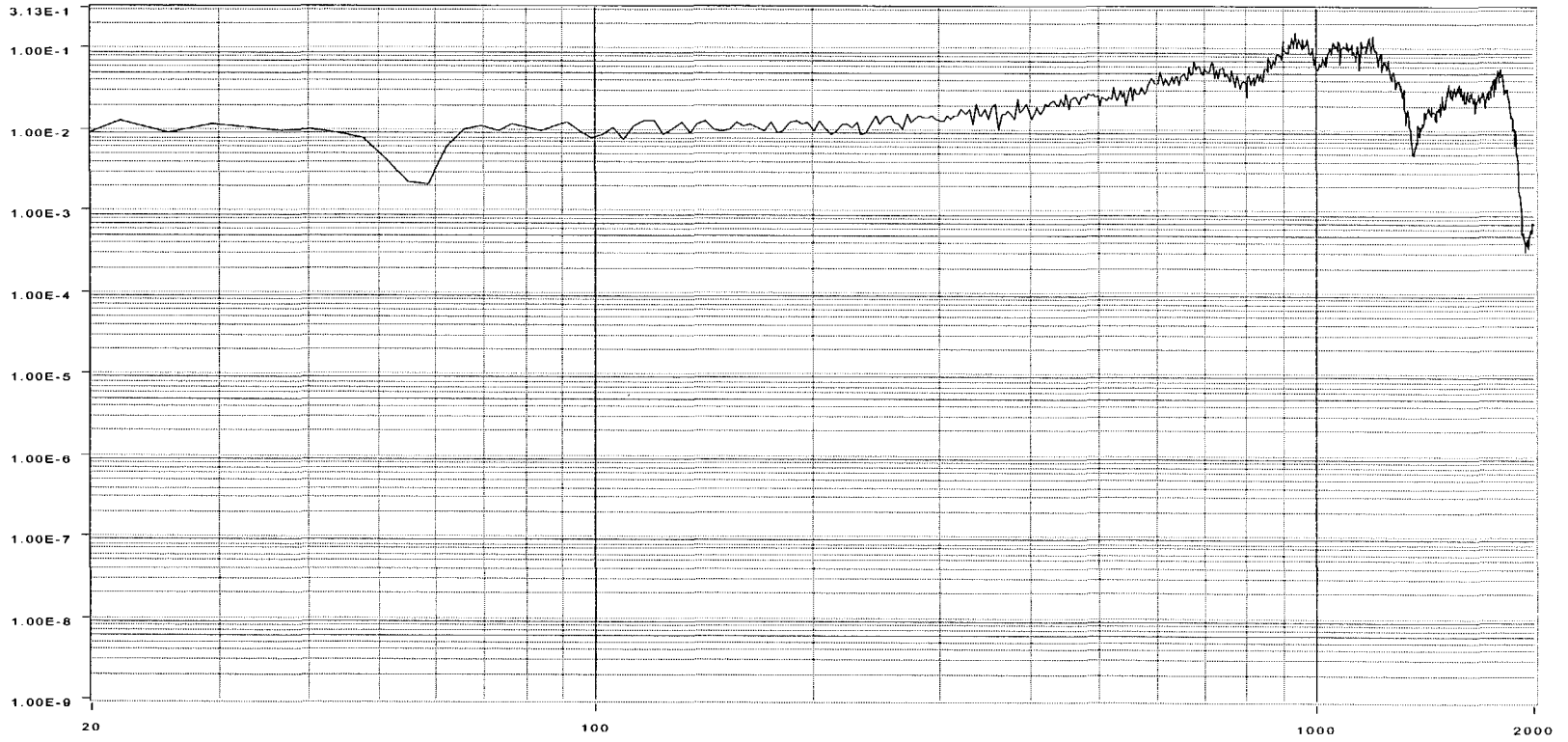
Channel #: 7 Node Number: 0007

Channel Label: A5 X

Channel Description:

Start Time: 96.00

RMS= 8.659E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 X

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

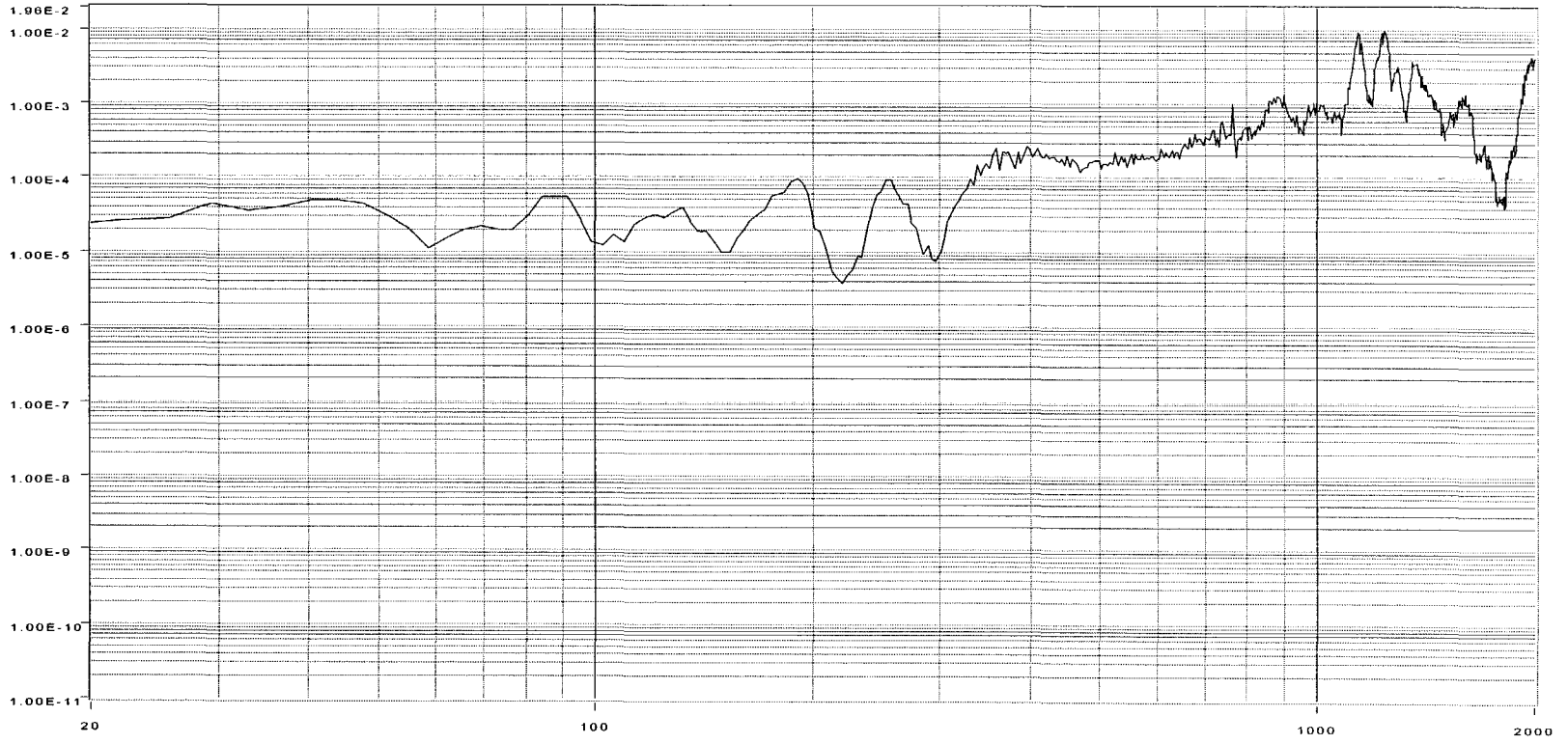
Channel #: 8 Node Number: 0008

Channel Label: A5 Y

Channel Description:

Start Time: 96.00

RMS= 1.382E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Y

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

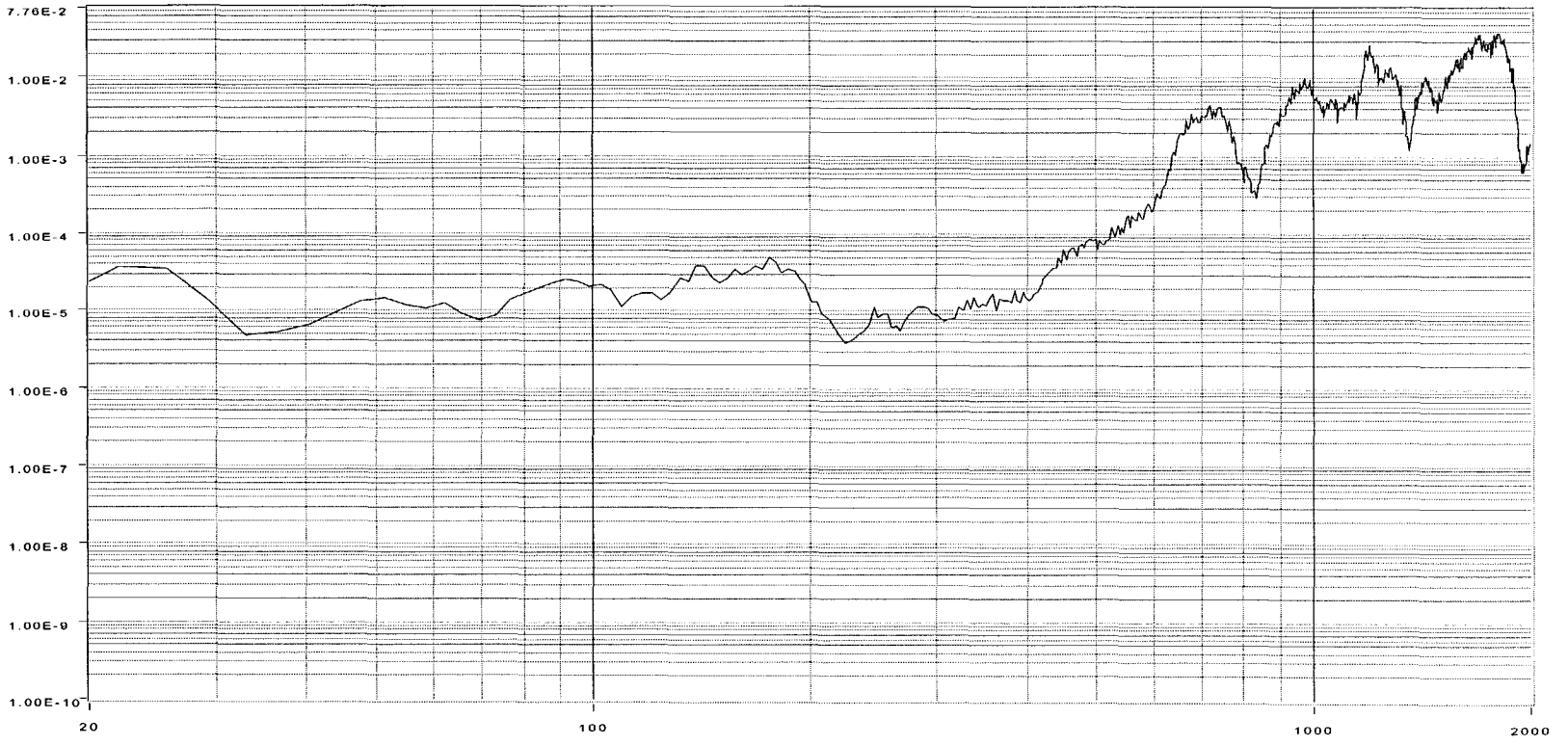
Channel #: 9 Node Number: 0009

Channel Label: A5 Z

Channel Description:

Start Time: 96.00

RMS= 3.718E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A5 Z

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

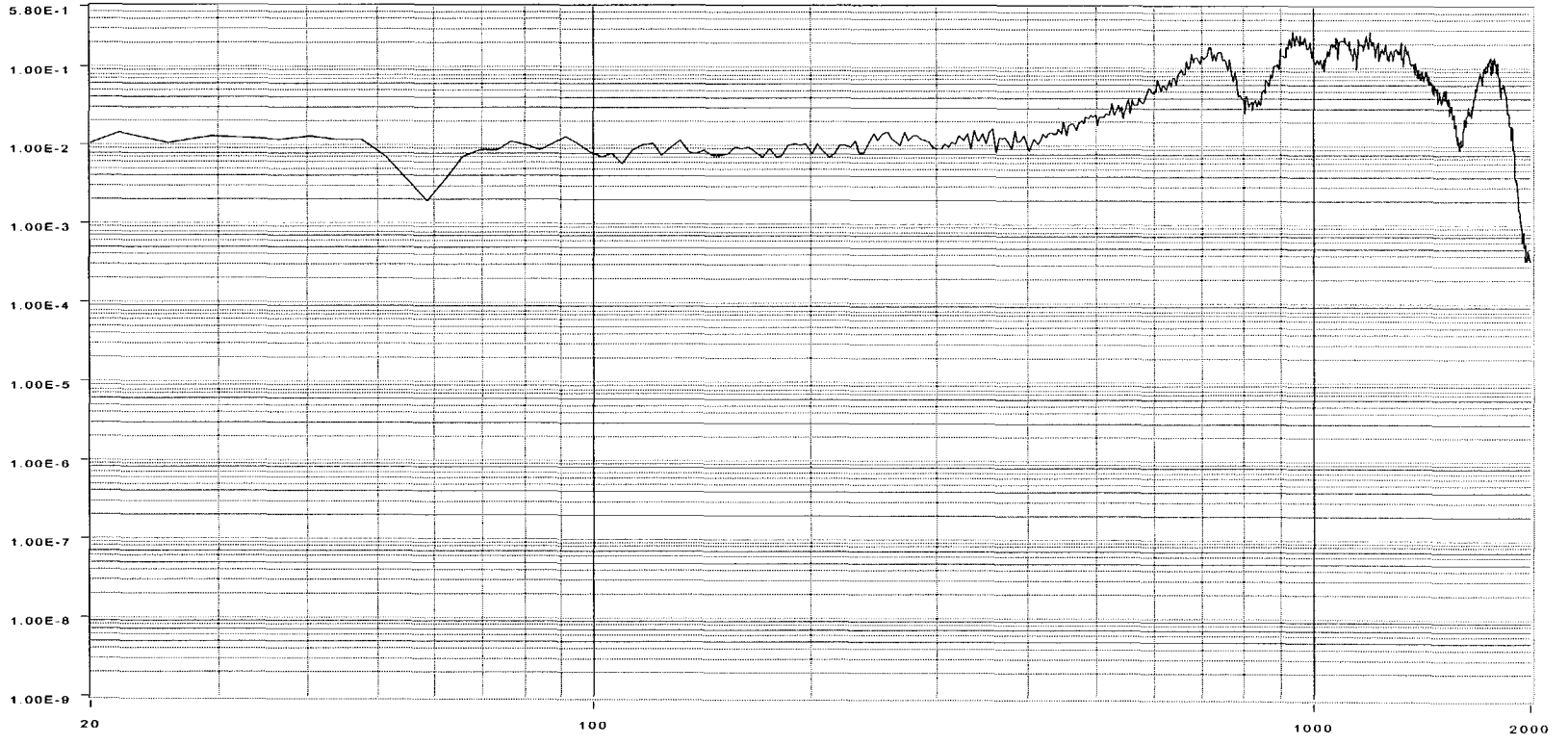
Channel #: 10 Node Number: 0010

Channel Label: A6 X

Channel Description:

Start Time: 96.00

RMS= 1.212E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 X

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

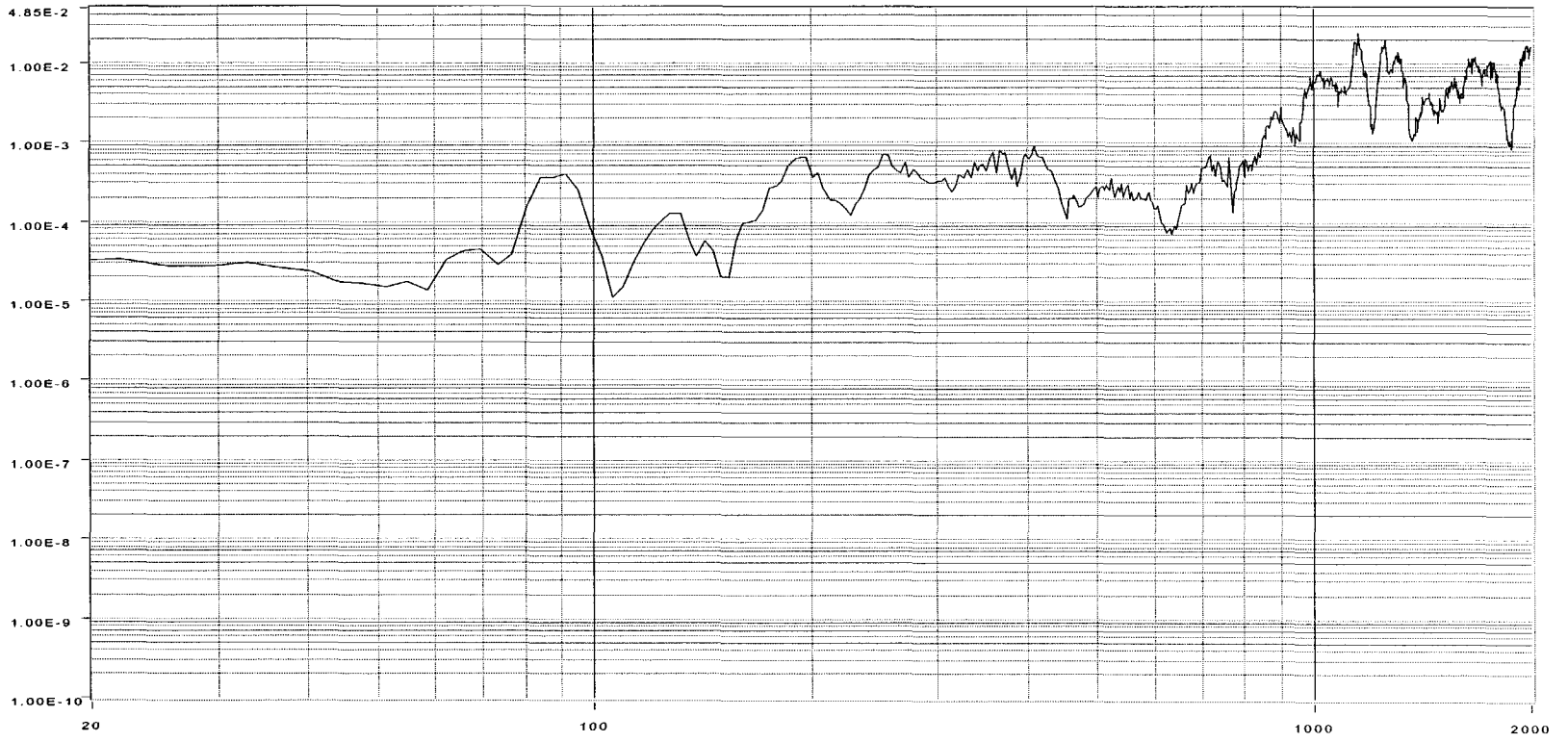
Channel #: 11 Node Number: 0011

Channel Label: A6 Y

Channel Description:

Start Time: 96.00

RMS= 2.666E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Y

Analysis Date & time: 6/24/02 4:23 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

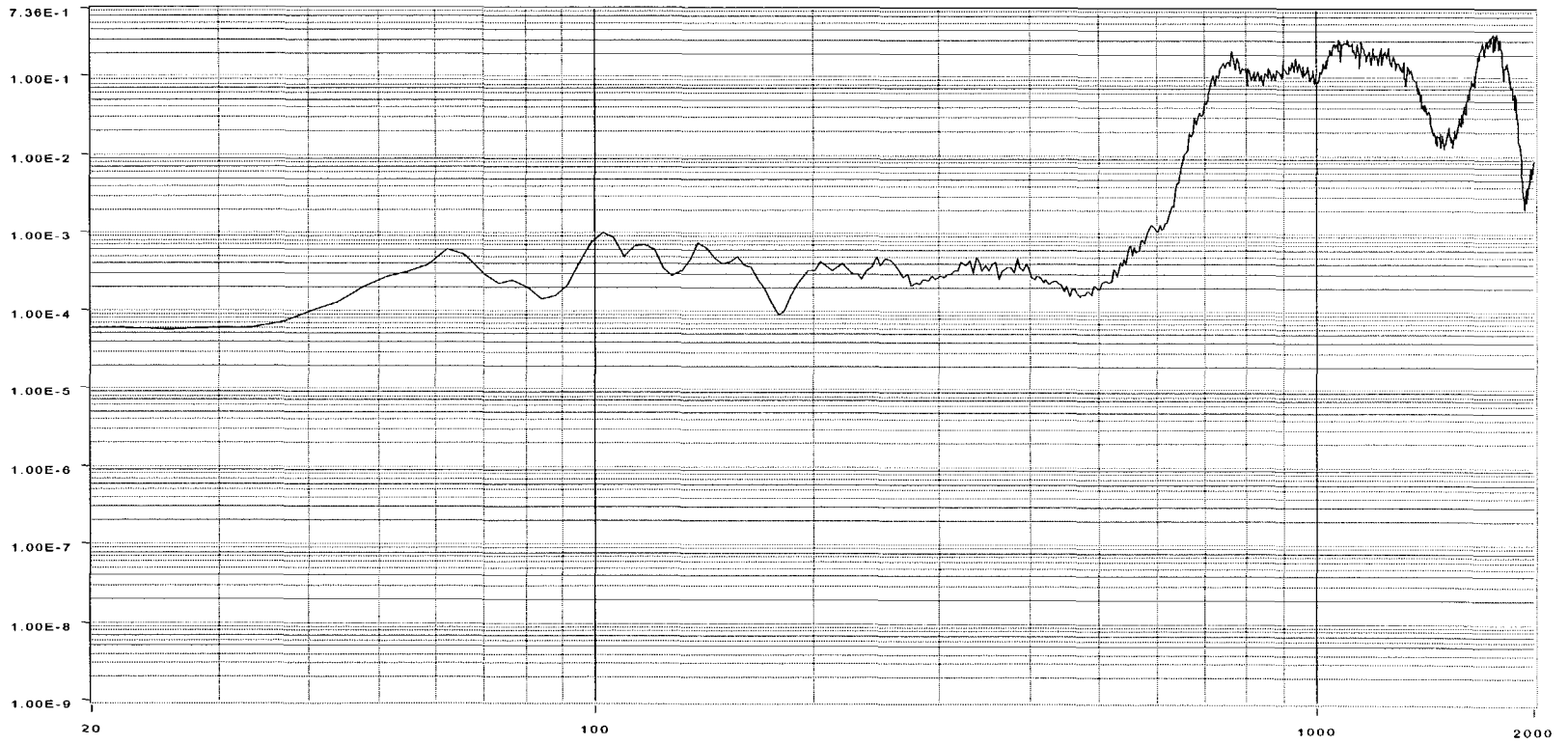
Channel #: 12 Node Number: 0012

Channel Label: A6 Z

Channel Description:

Start Time: 96.00

RMS= 1.274E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A6 Z

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

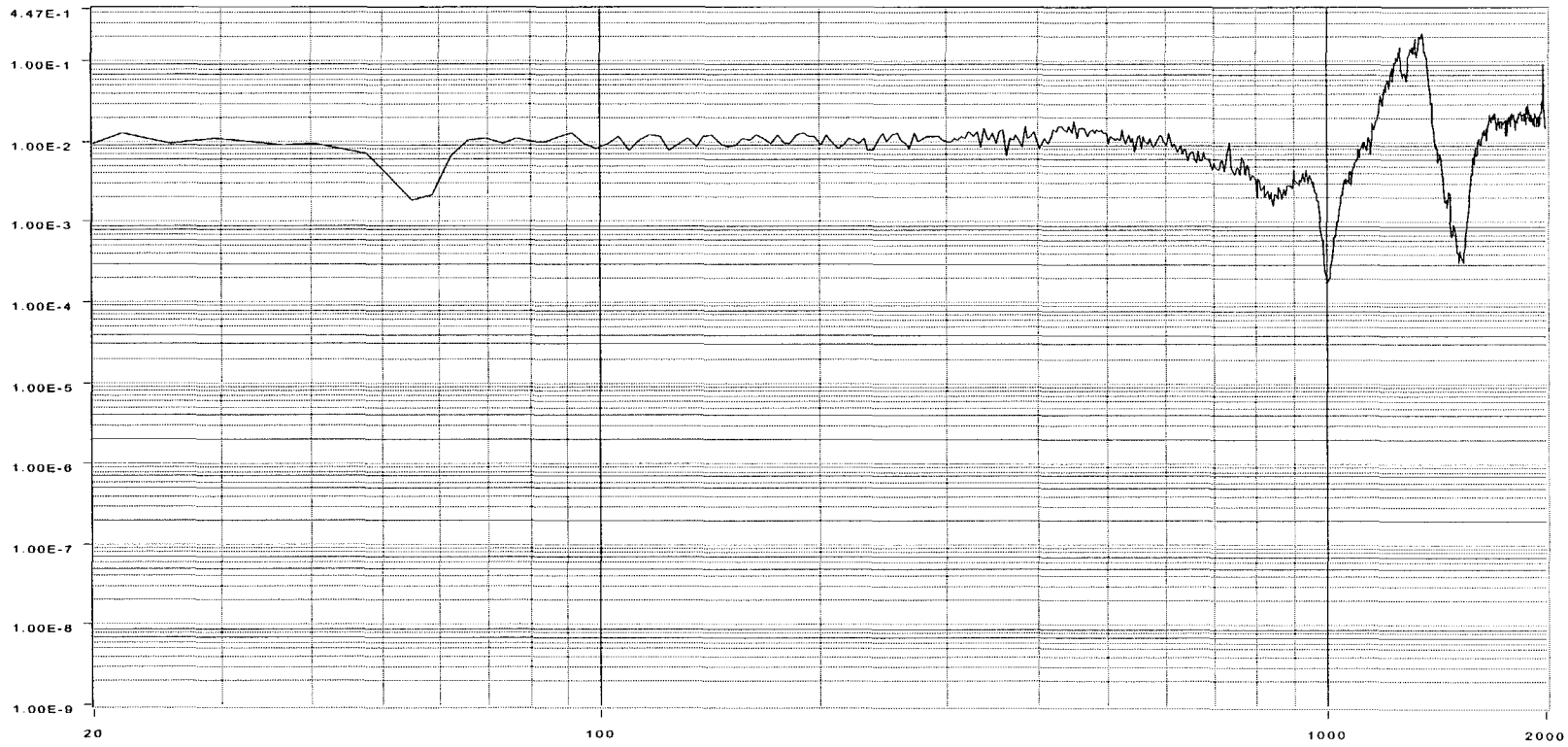
Channel #: 17 **Node Number:** 0017

Channel Label: A7 X

Channel Description:

Start Time: 96.00

RMS= 6.233E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 X

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

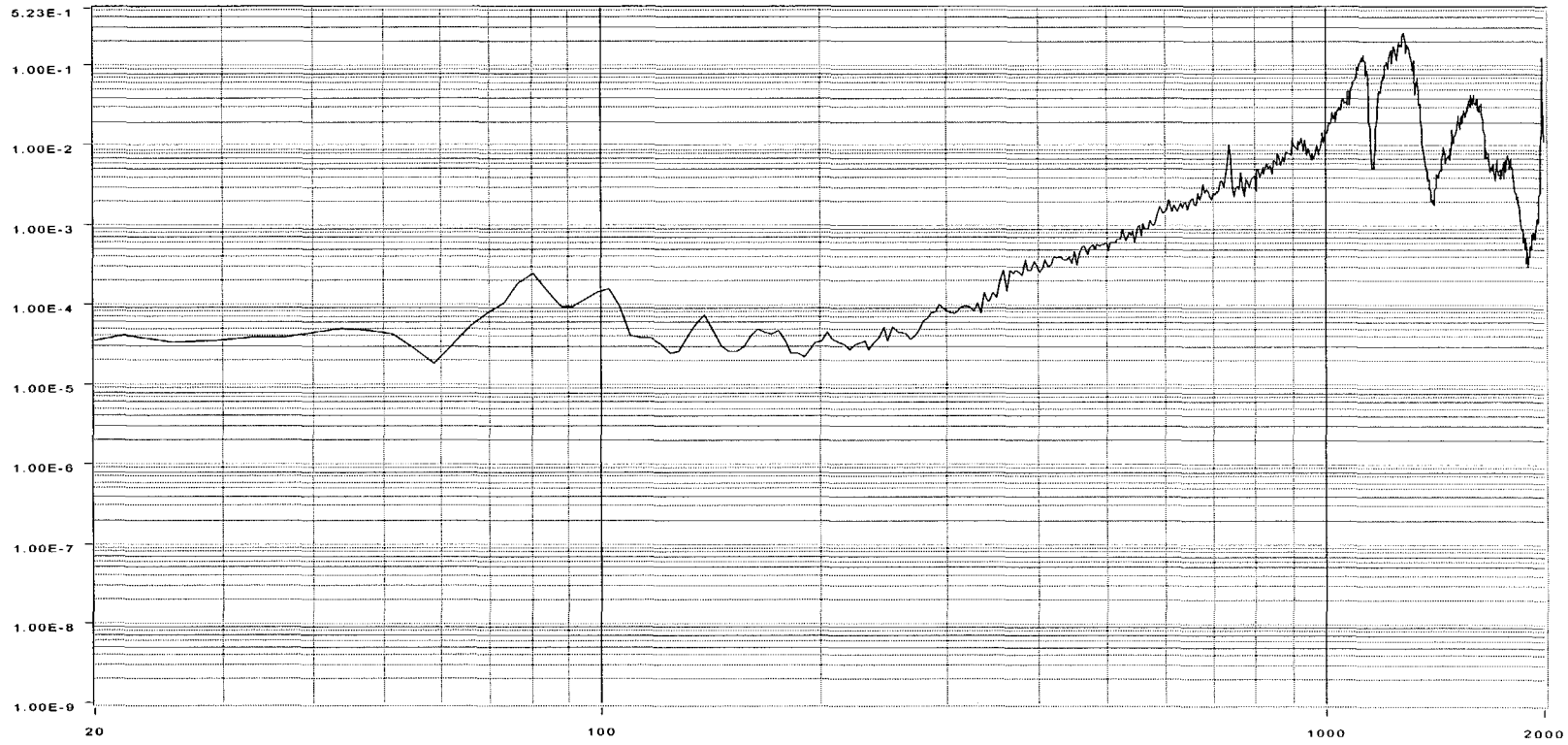
Channel #: 18 Node Number: 0018

Channel Label: A7 Y

Channel Description:

Start Time: 96.00

RMS= 6.176E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Y

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

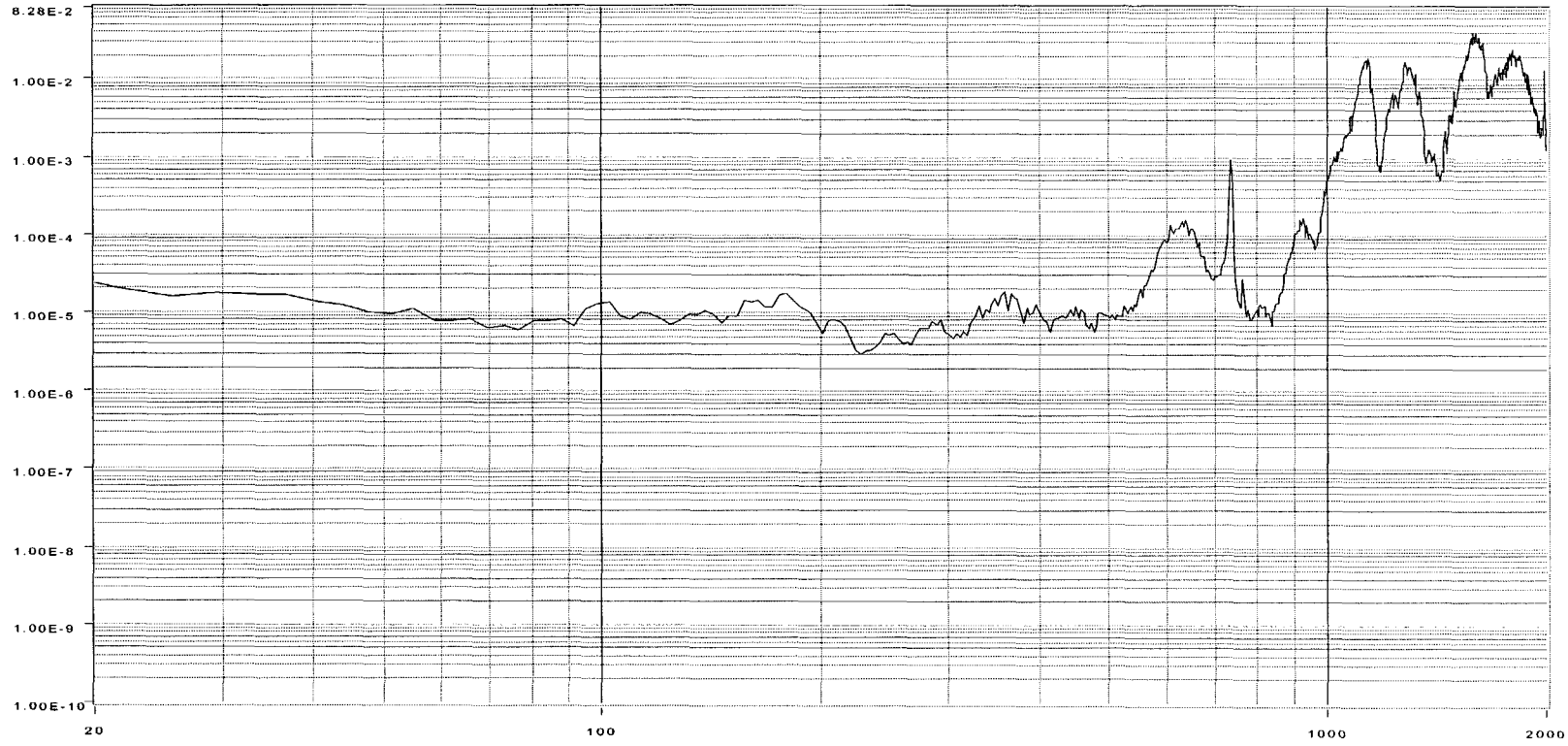
Channel #: 19 Node Number: 0019

Channel Label: A7 Z

Channel Description:

Start Time: 96.00

RMS= 3.088E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A7 Z

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

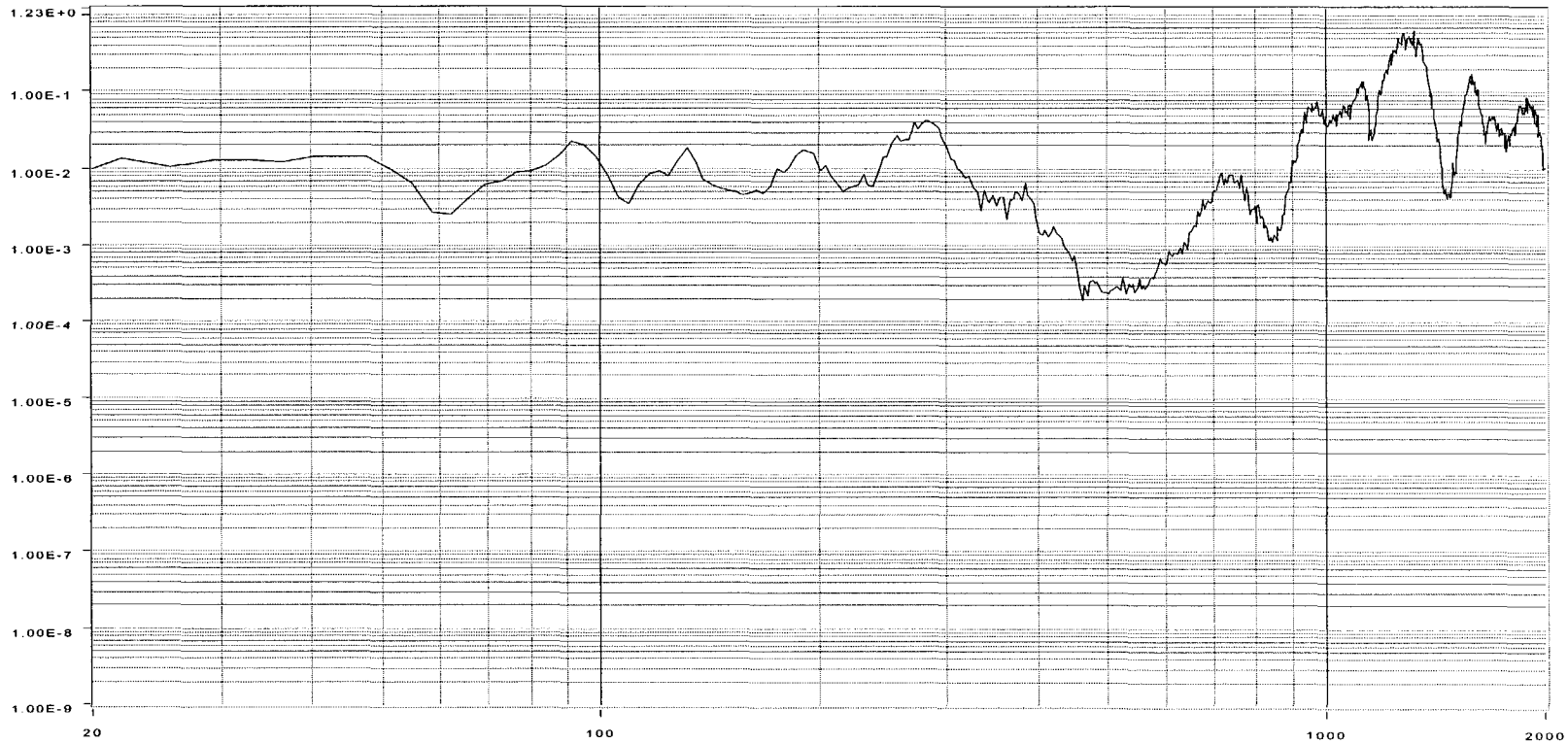
Channel #: 20 Node Number: 0020

Channel Label: A8 X

Channel Description:

Start Time: 96.00

RMS= 1.091E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 X

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

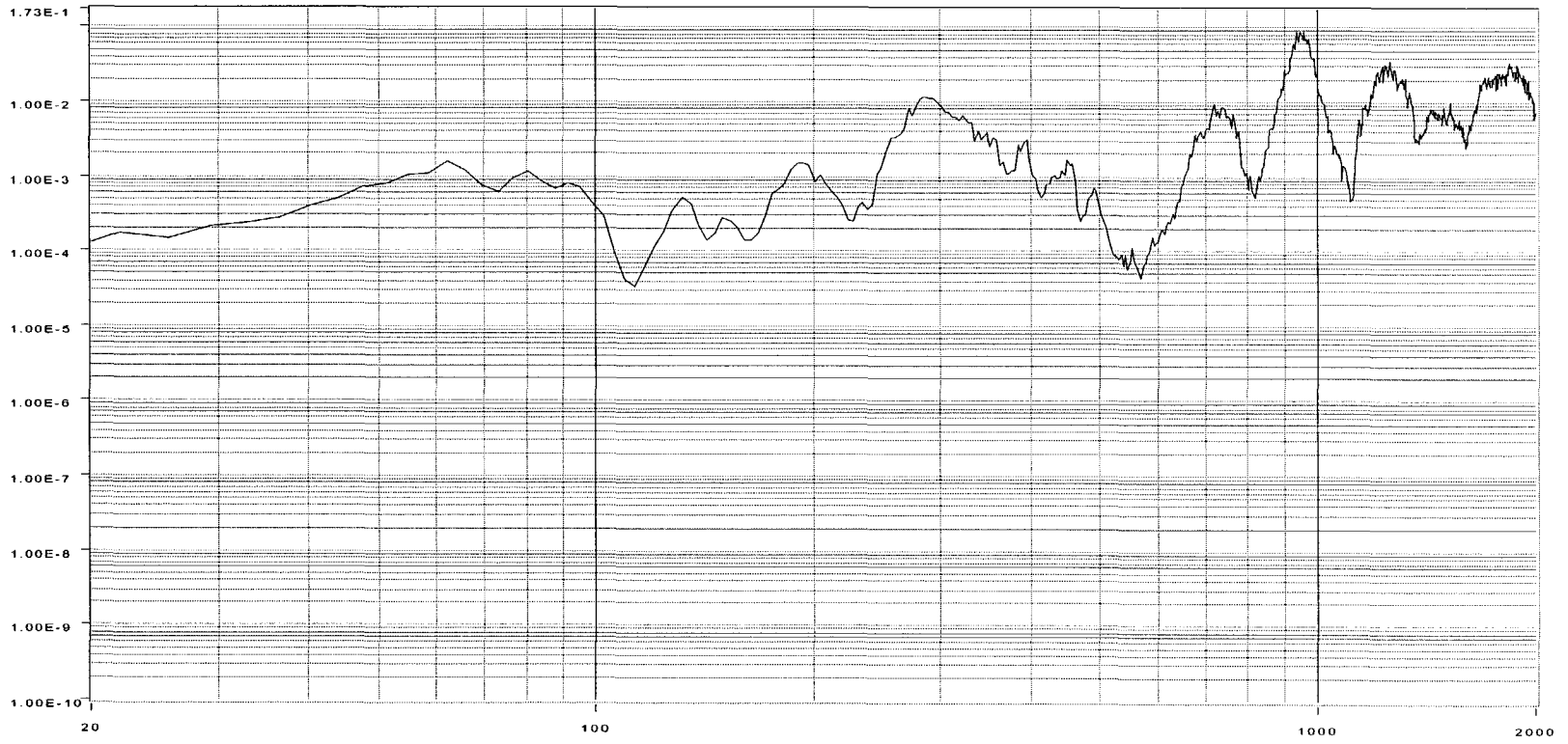
Channel #: 21 Node Number: 0021

Channel Label: A8 Y

Channel Description: 0.01034

Start Time: 96.00

RMS= 4.445E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Y

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

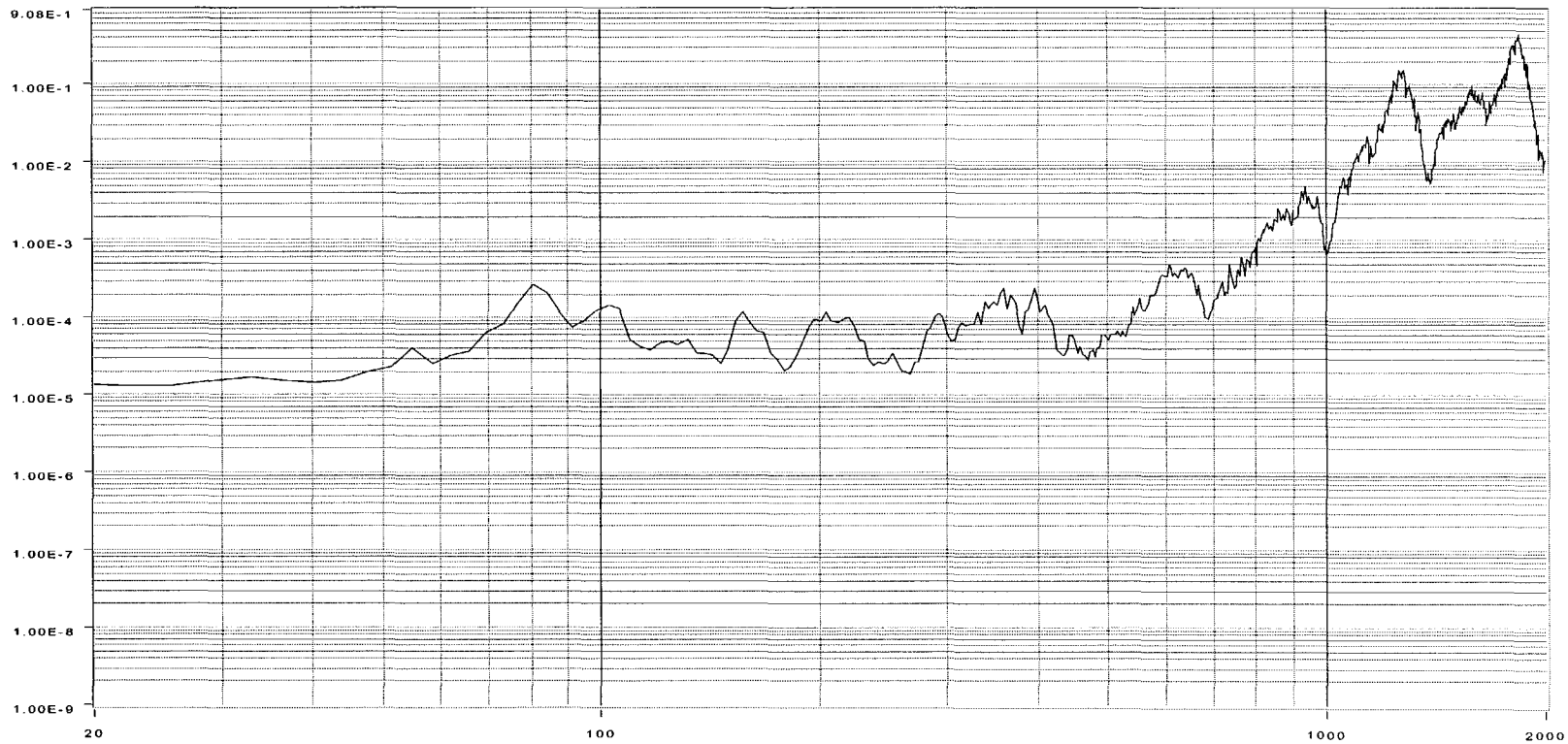
Channel #: 22 **Node Number:** 0022

Channel Label: A8 Z

Channel Description: 0.01029

Start Time: 96.00

RMS= 8.383E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A8 Z

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

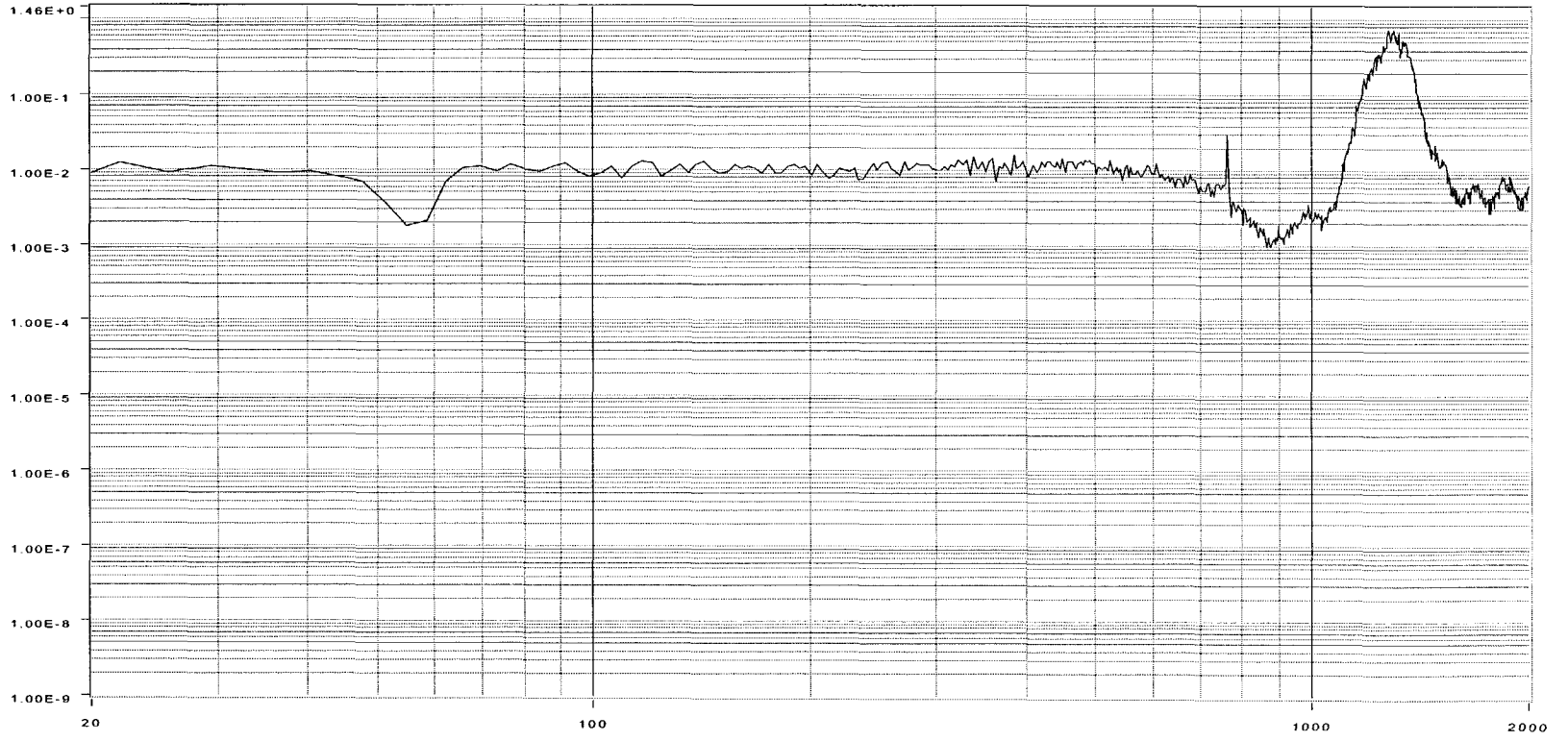
Channel #: 23 Node Number: 0023

Channel Label: A9 X

Channel Description:

Start Time: 96.00

RMS= 1.003E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 X

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

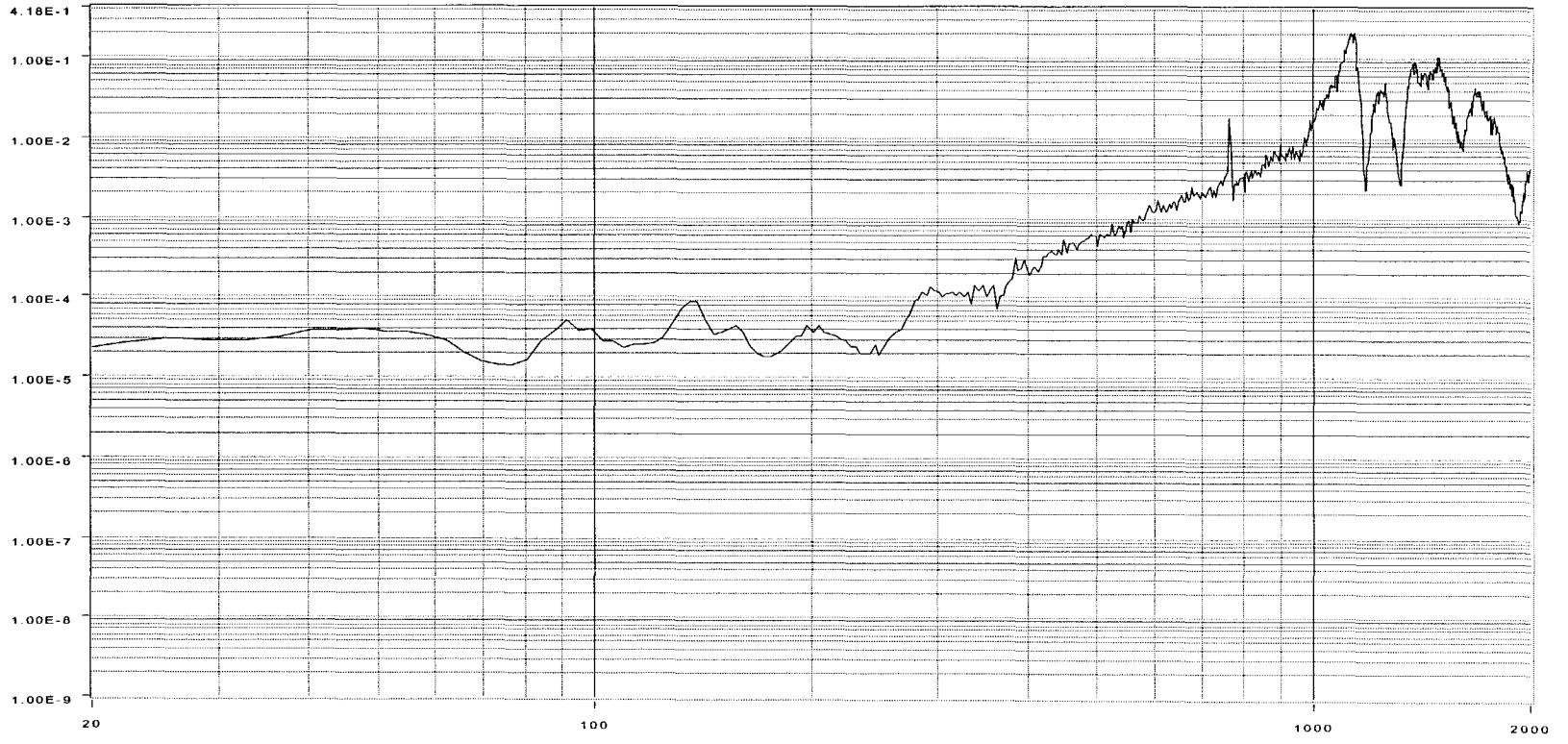
Channel #: 24 Node Number: 0024

Channel Label: A9 Y

Channel Description:

Start Time: 96.00

RMS= 6.043E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Y

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

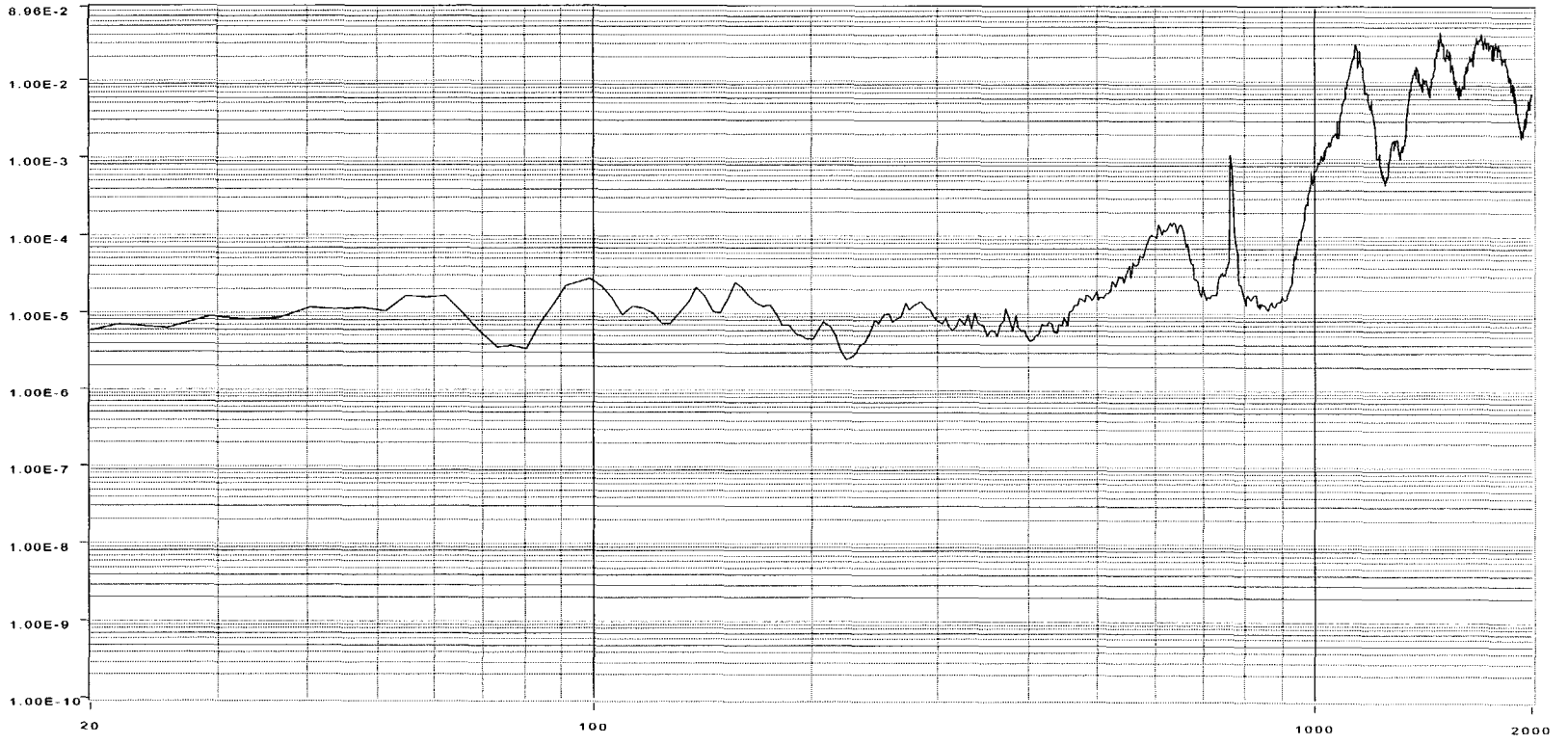
Channel #: 25 **Node Number:** 0025

Channel Label: A9 Z

Channel Description:

Start Time: 96.00

RMS= 3.533E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A9 Z

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

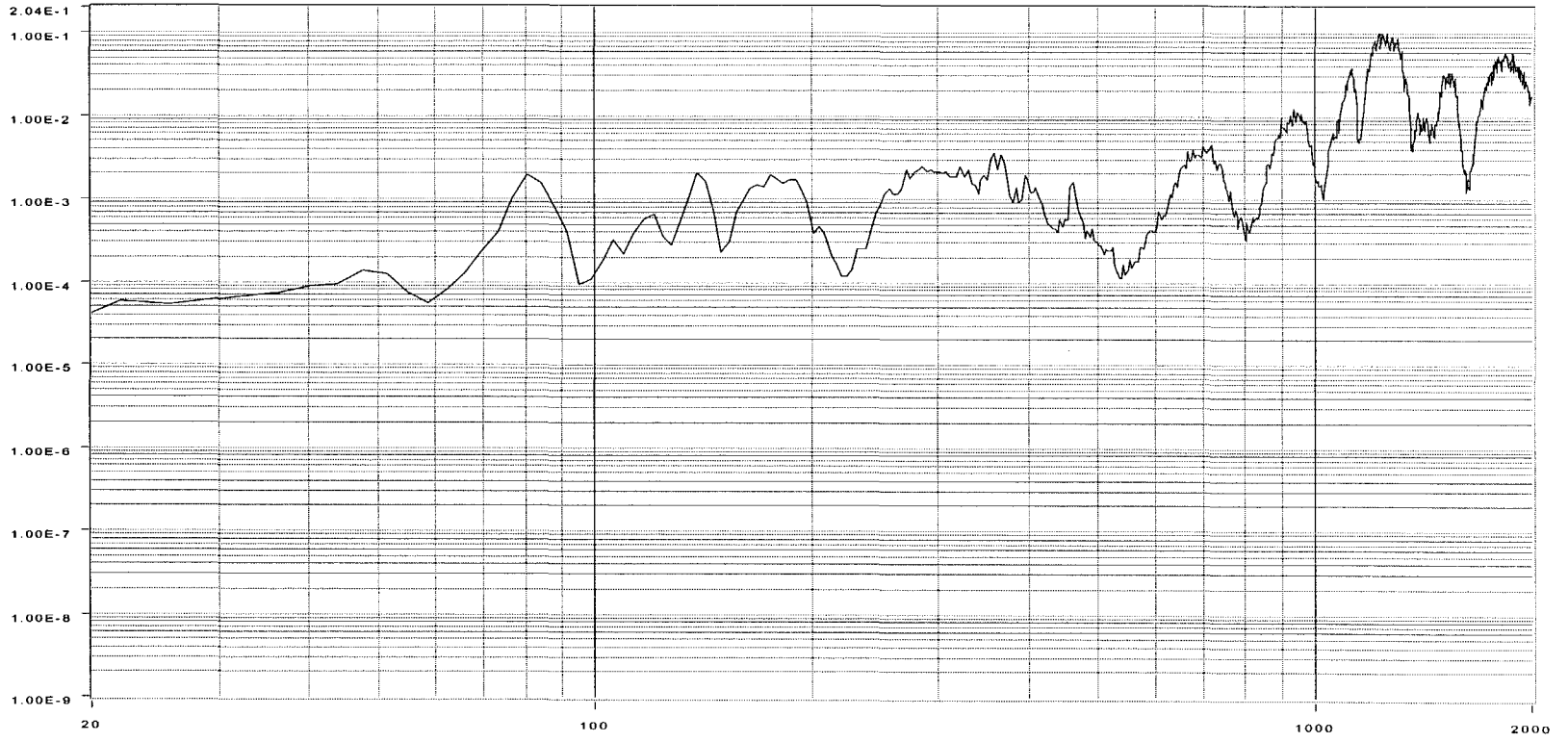
Channel #: 26 Node Number: 0026

Channel Label: A10 X

Channel Description:

Start Time: 96.00

RMS= 5.386E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 X

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

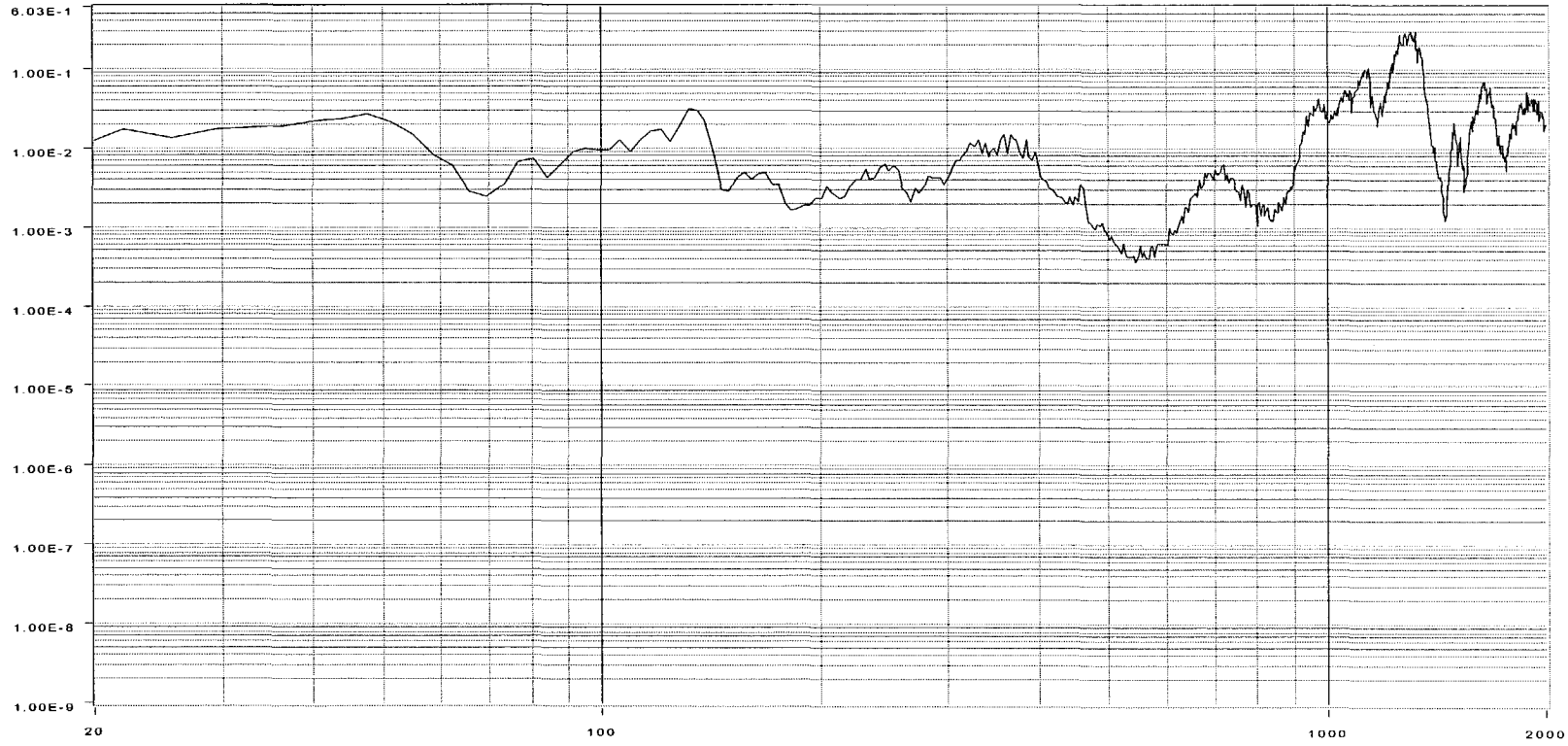
Channel #: 27 Node Number: 0027

Channel Label: A10 Y

Channel Description:

Start Time: 96.00

RMS= 7.620E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Y

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

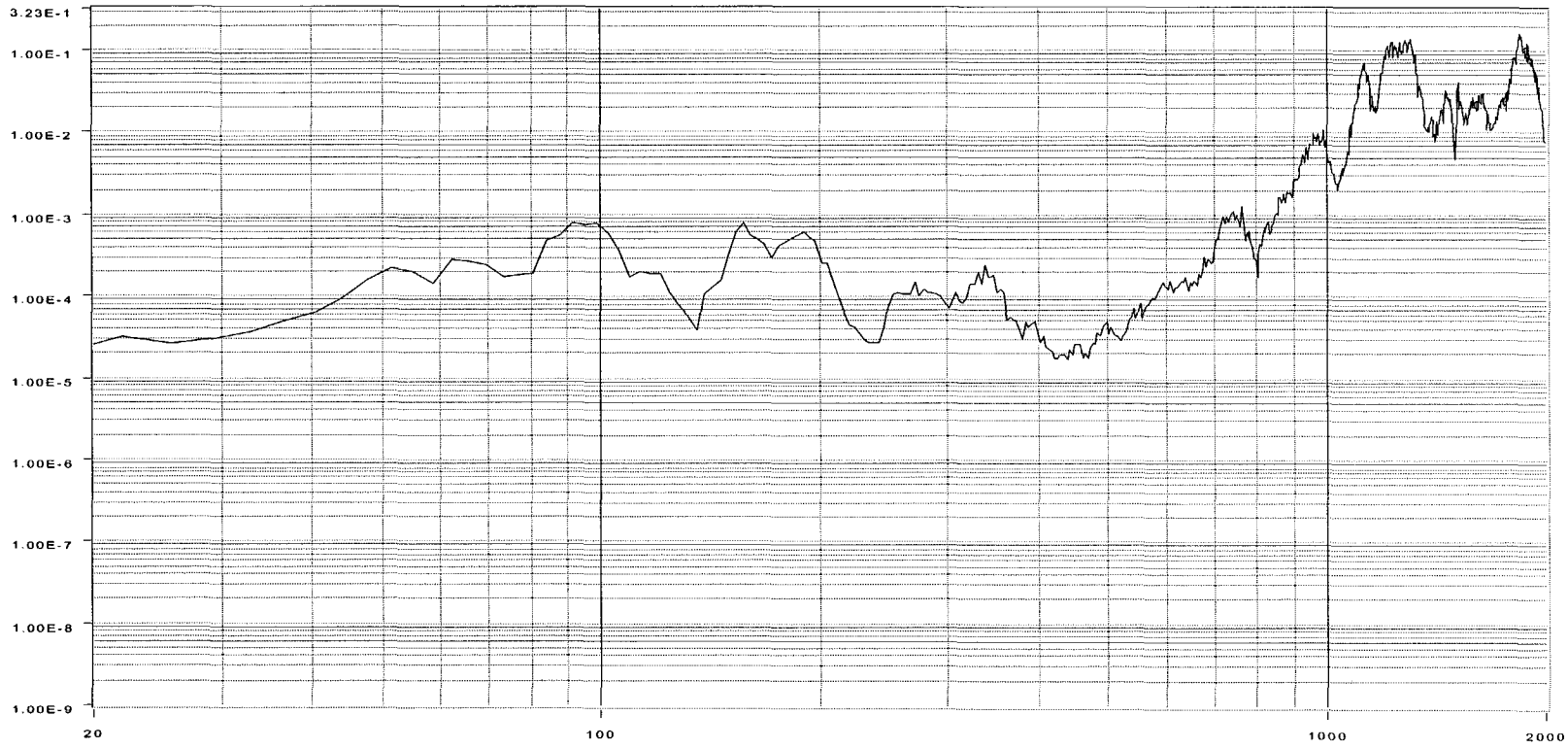
Channel #: 28 **Node Number:** 0028

Channel Label: A10 Z

Channel Description:

Start Time: 96.00

RMS= 6.573E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A10 Z

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

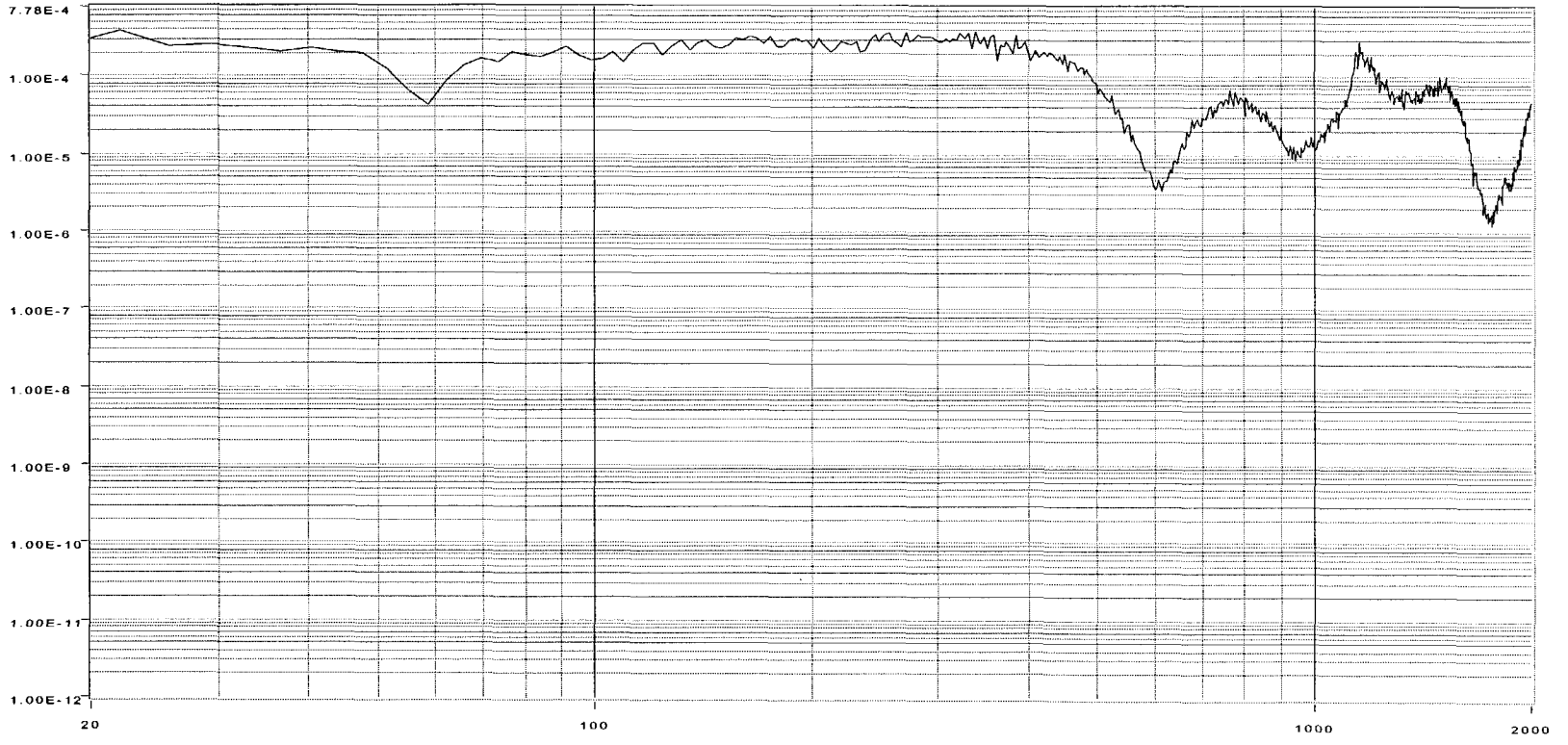
Channel #: 31 Node Number: 0031

Channel Label: DRIVE

Channel Description:

Start Time: 96.00

RMS= 4.181E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

DRIVE

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

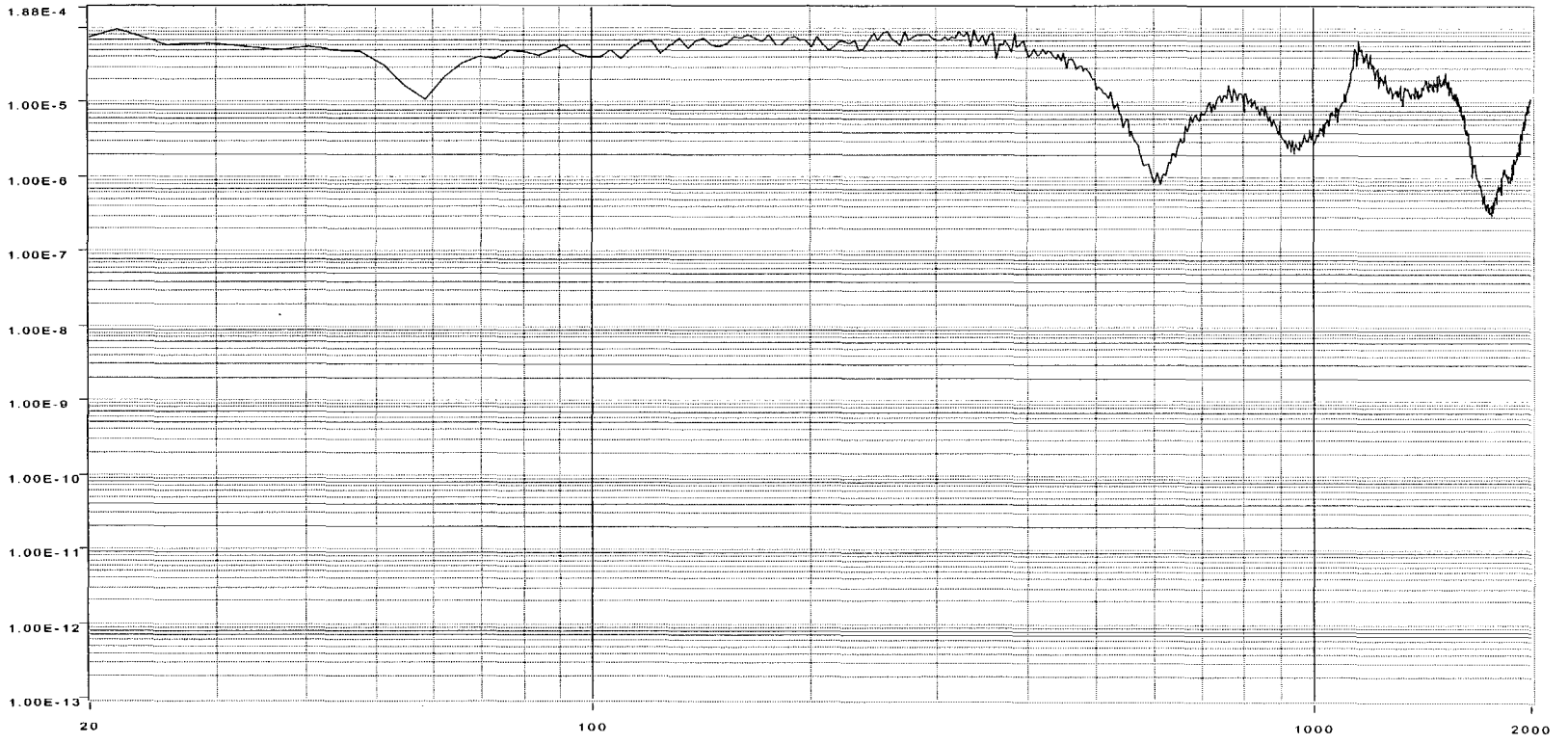
Channel #: 32 Node Number: 0032

Channel Label: COLA

Channel Description:

Start Time: 96.00

RMS= 2.062E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

COLA

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

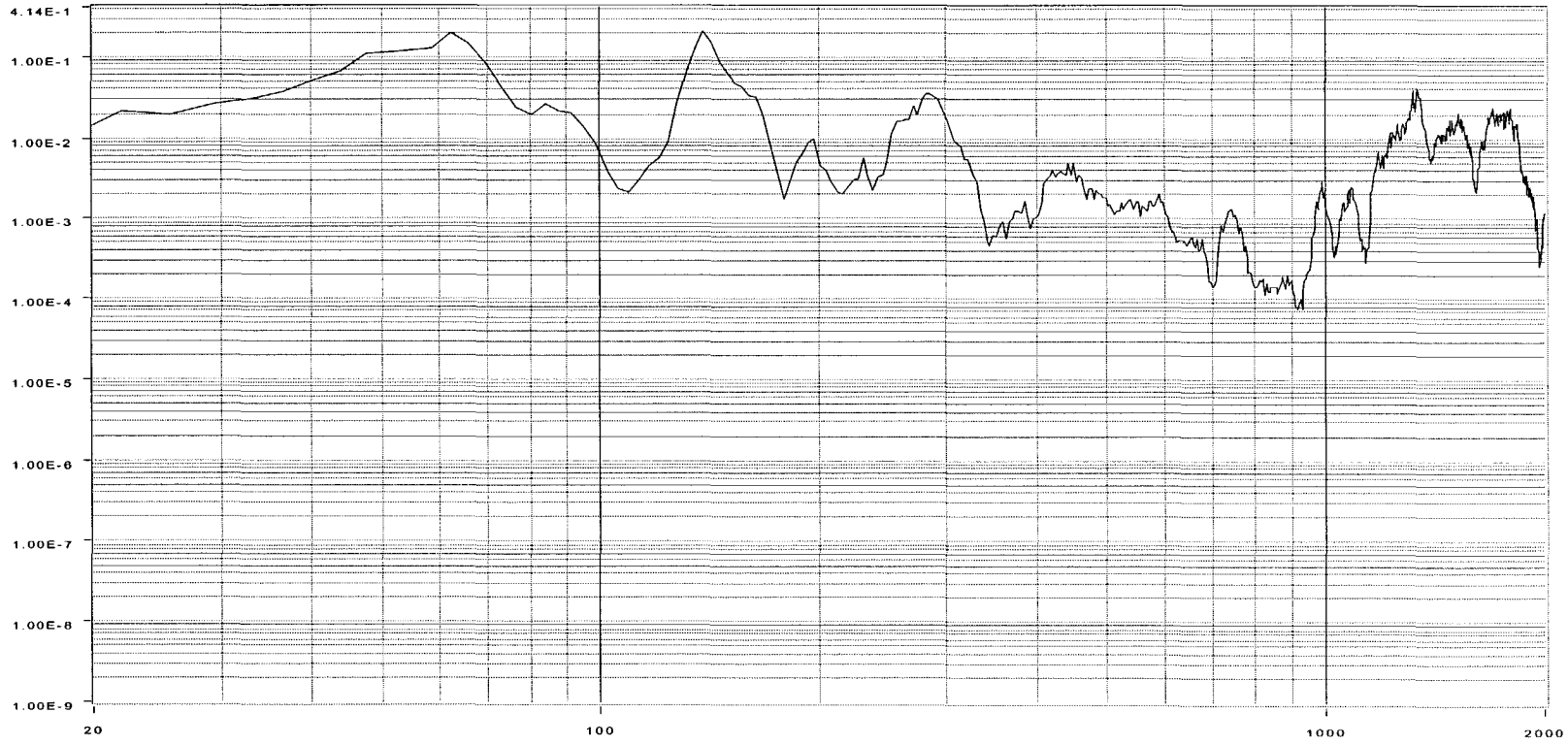
Channel #: 33 **Node Number:** 0033

Channel Label: A1X: +Y PANEL UPPER

Channel Description: BOX 3 CH 1 SN=AE71-1

Start Time: 96.00

RMS= 4.511E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1X: +Y PANEL UPPER

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

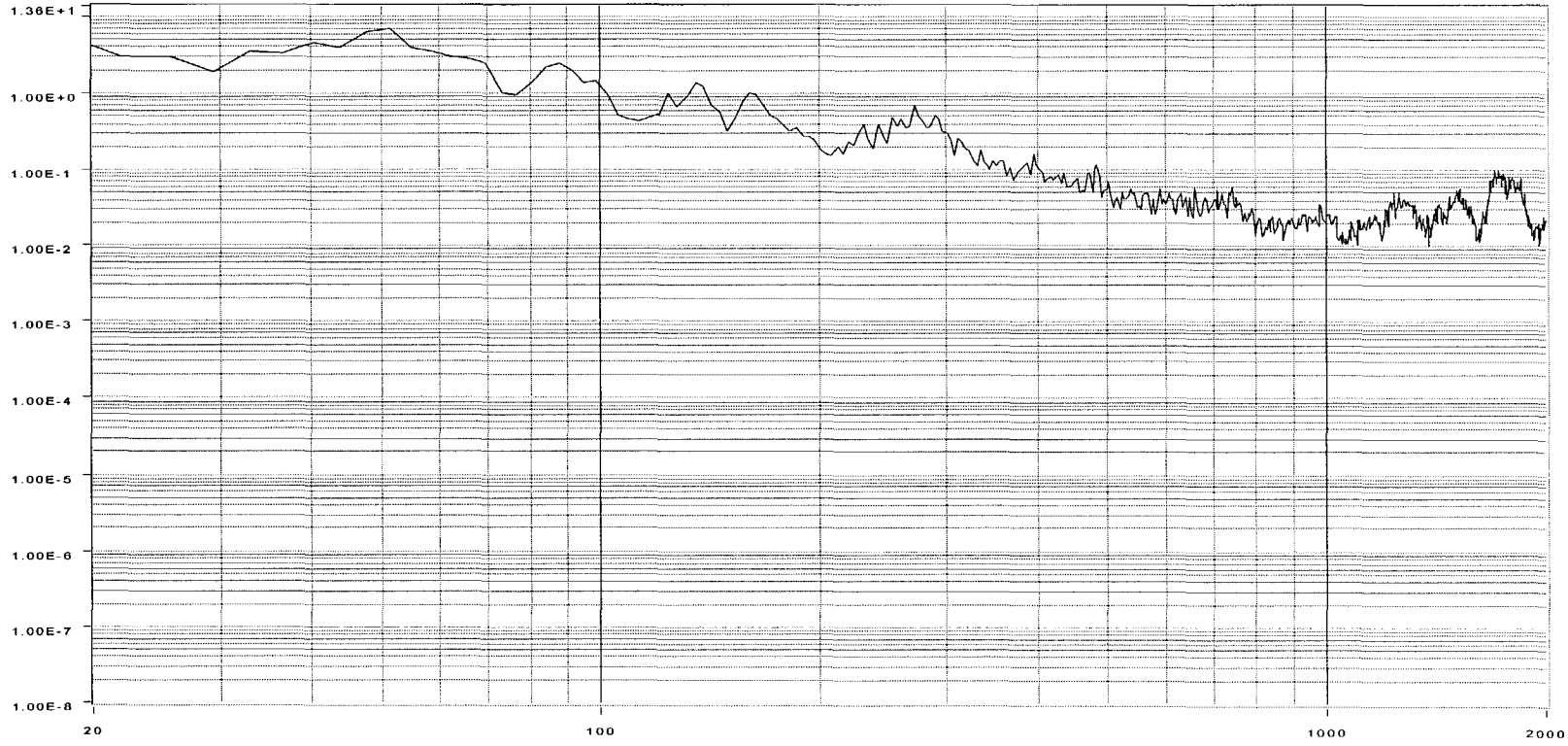
Channel #: 34 **Node Number: 0034**

Channel Label: A1Y: +Y PANEL UPPER

Channel Description: BOX 3 CH 2 SN=AC40

Start Time: 96.00

RMS= 2.028E+1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Y: +Y PANEL UPPER

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

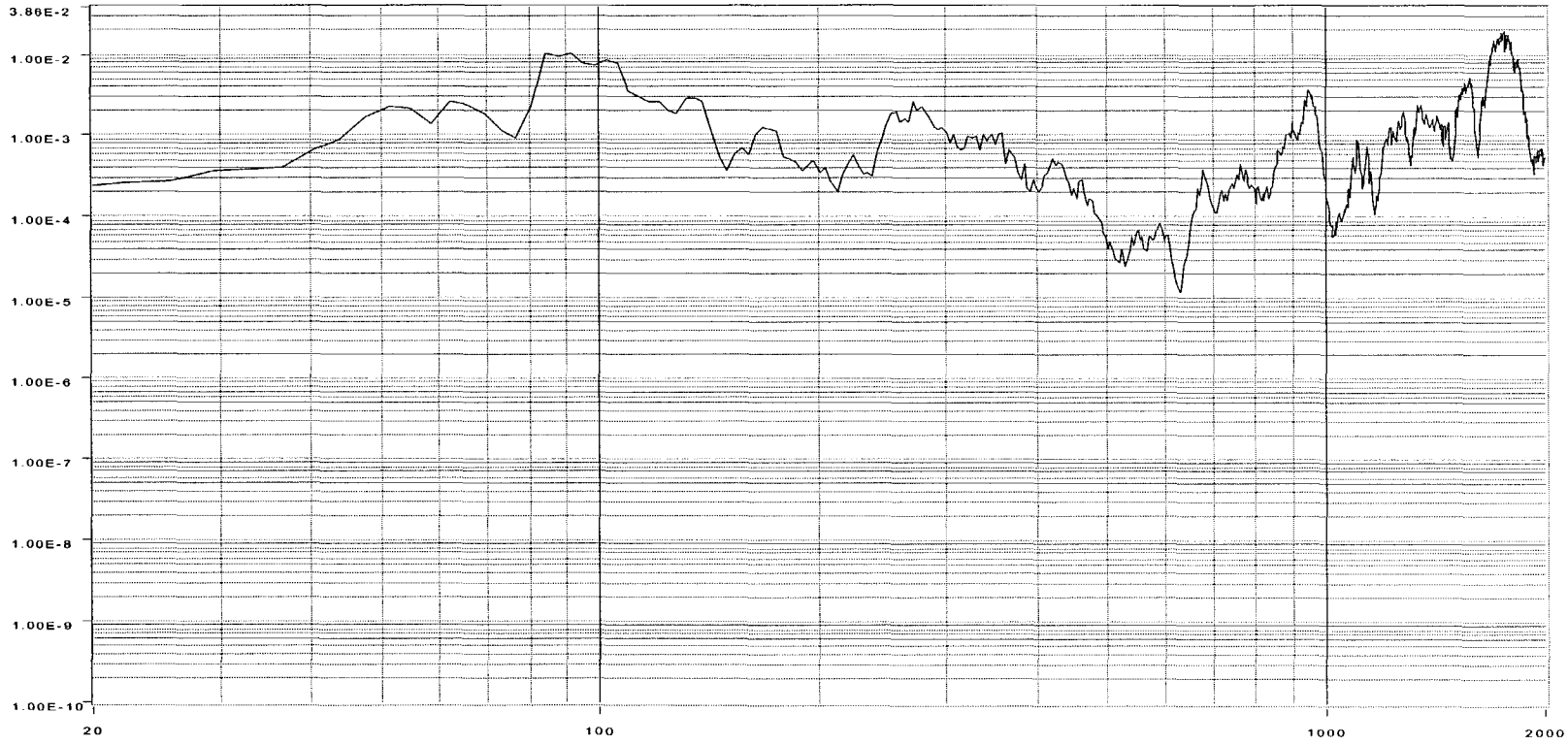
Channel #: 35 Node Number: 0035

Channel Label: A1Z: +Y PANEL UPPER

Channel Description: BOX 3 CH 3 SN=AD72

Start Time: 96.00

RMS= 2.024E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1Z: +Y PANEL UPPER

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

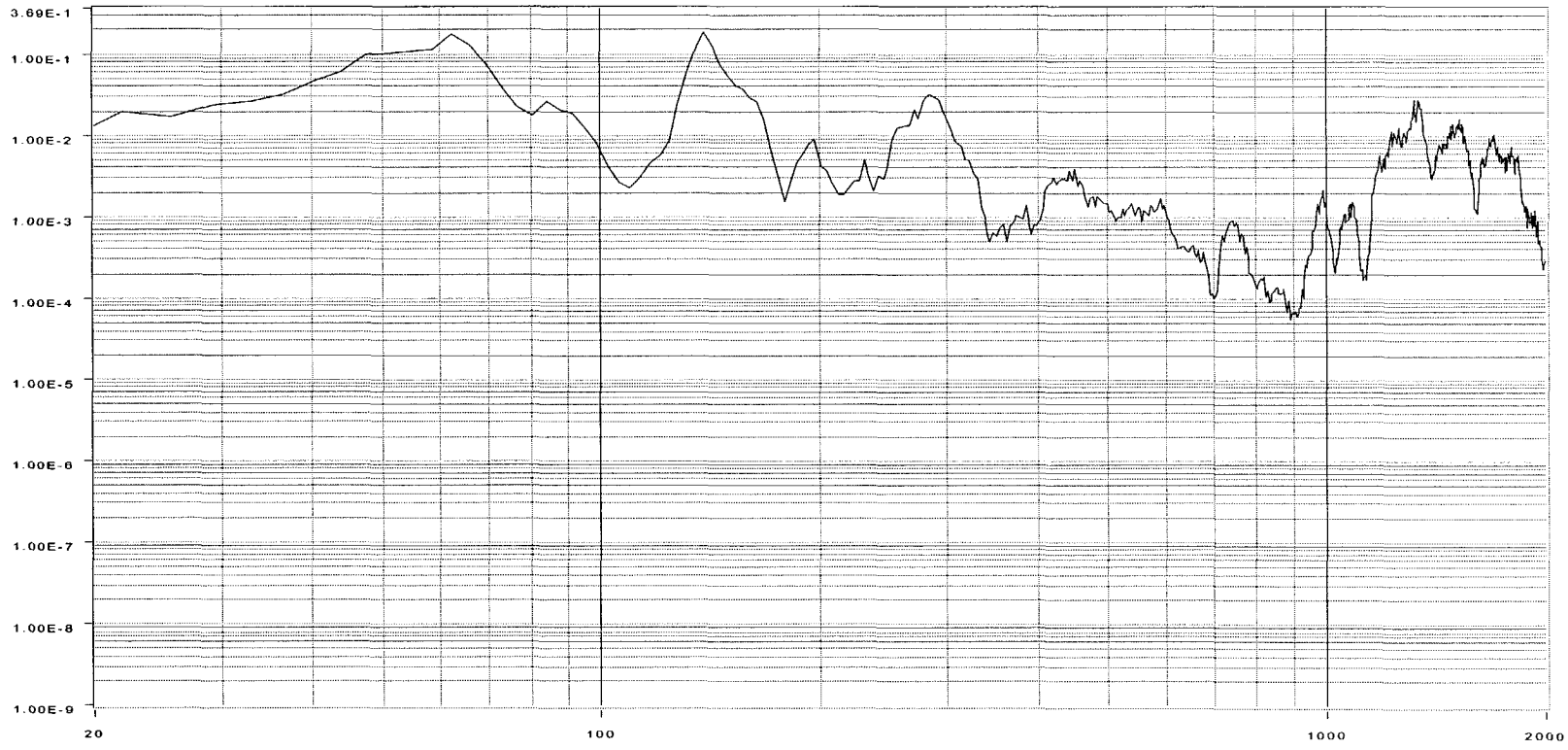
Channel #: 36 Node Number: 0036

Channel Label: A1RX: +Y PANEL UPPER

Channel Description: BOX 3 CH 4 SN=AF35

Start Time: 96.00

RMS= 3.892E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RX: +Y PANEL UPPER

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

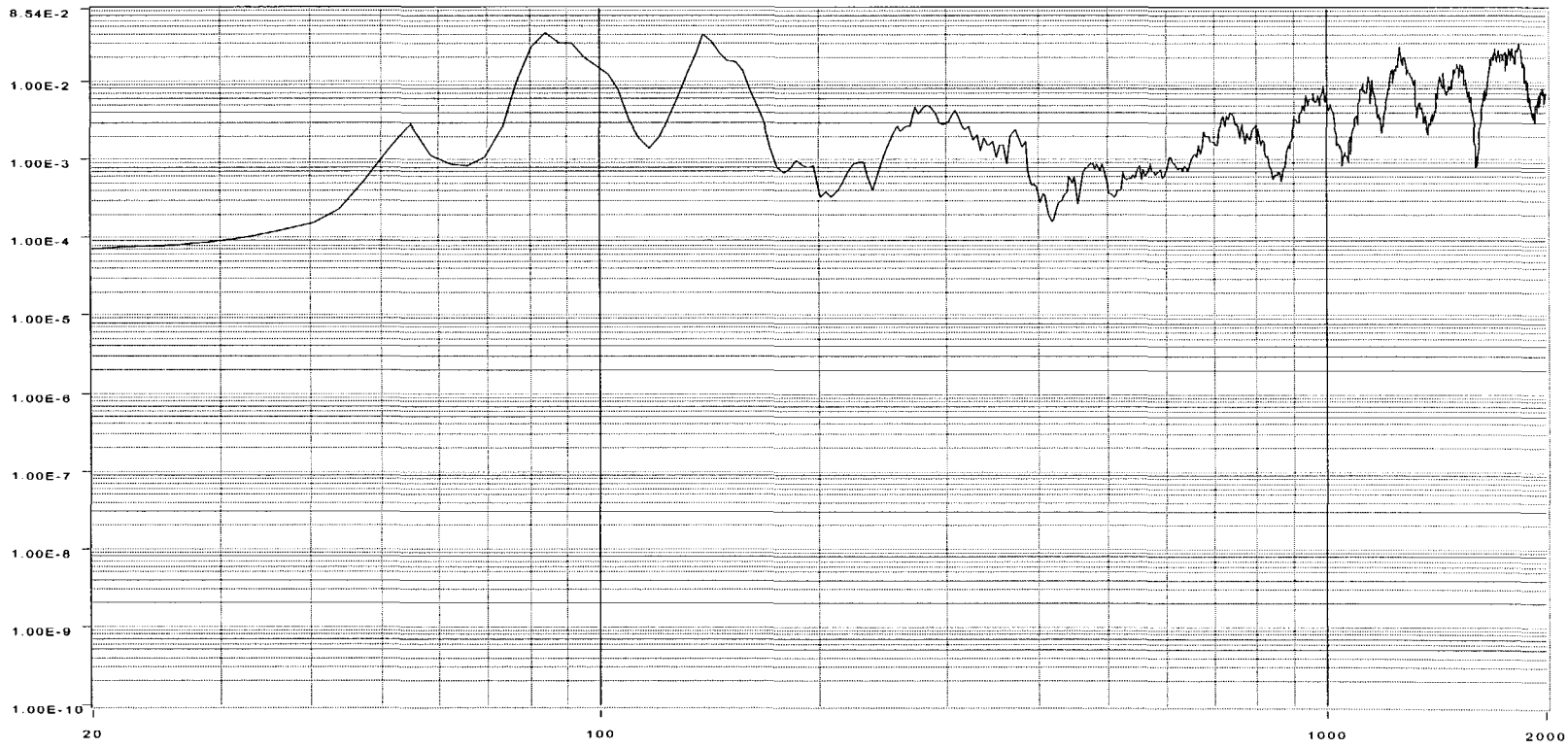
Channel #: 37 Node Number: 0037

Channel Label: A1RY: +Y PANEL UPPER

Channel Description: BOX 3 CH 5 SN=AB88

Start Time: 96.00

RMS= 3.613E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RY: +Y PANEL UPPER

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

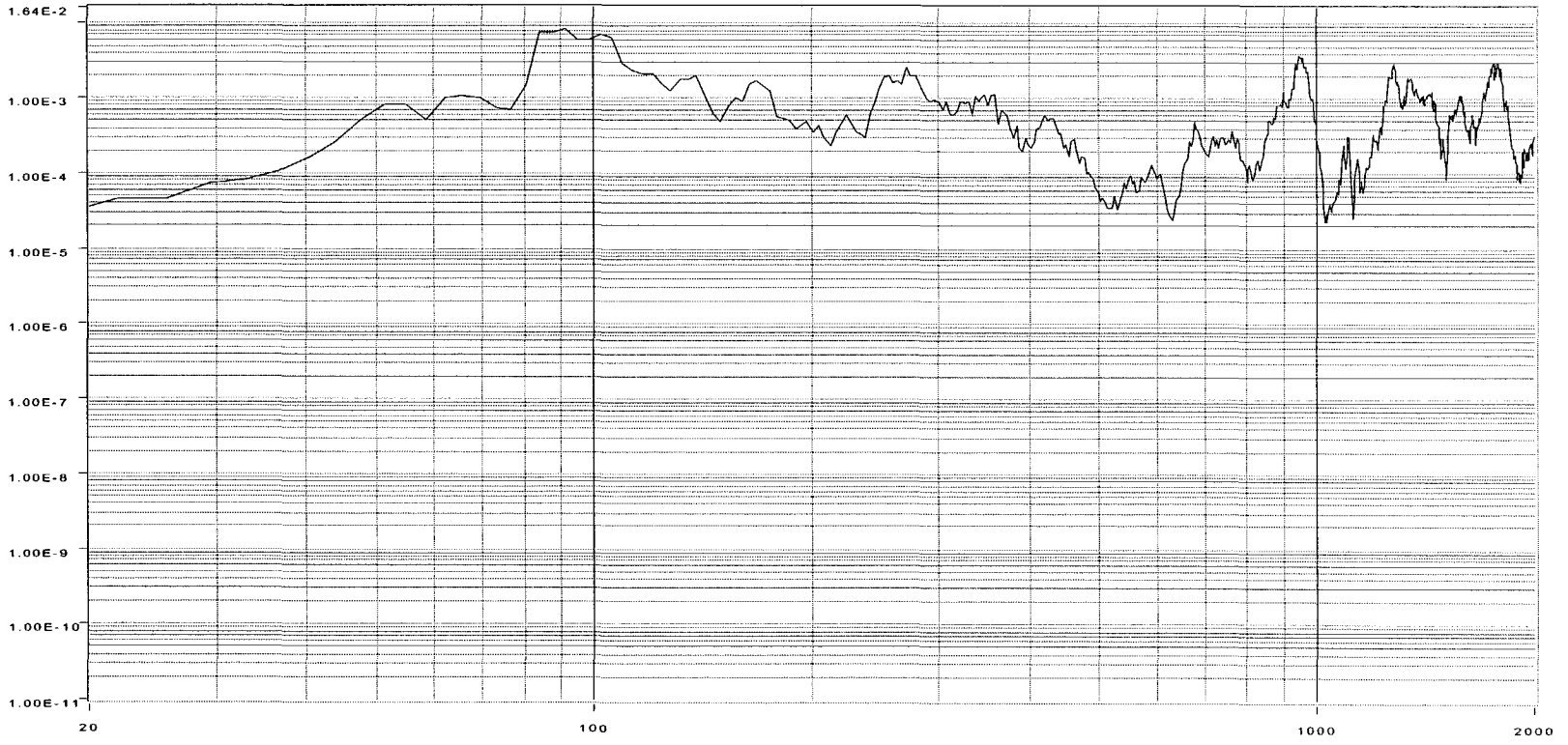
Channel #: 38 Node Number: 0038

Channel Label: A1RZ: +Y PANEL UPPER

Channel Description: BOX 3 CH 6 SN=AG51

Start Time: 96.00

RMS= 1.232E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A1RZ: +Y PANEL UPPER

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

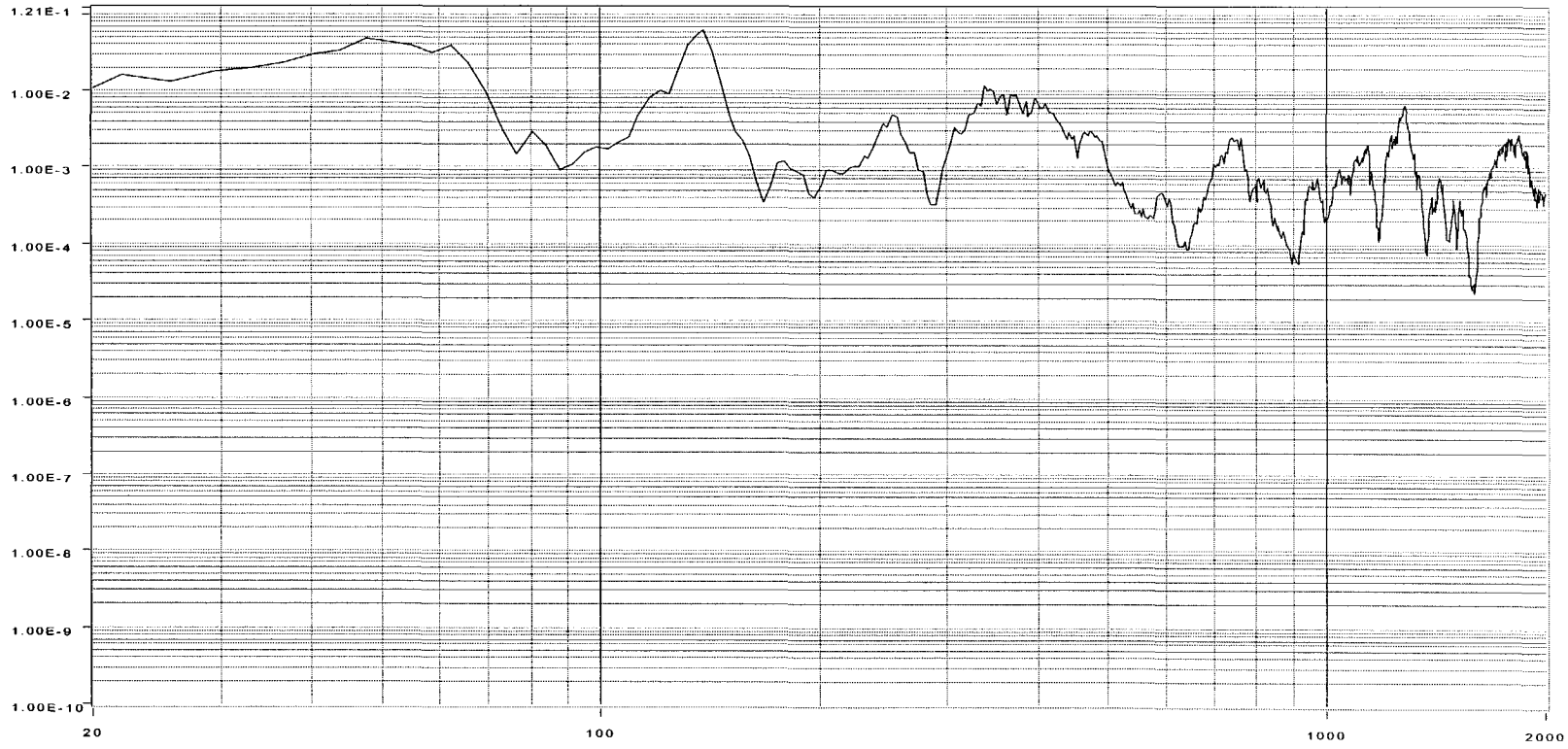
Channel #: 39 Node Number: 0039

Channel Label: A2X: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 7 SN=AK10

Start Time: 96.00

RMS= 2.221E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2X: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

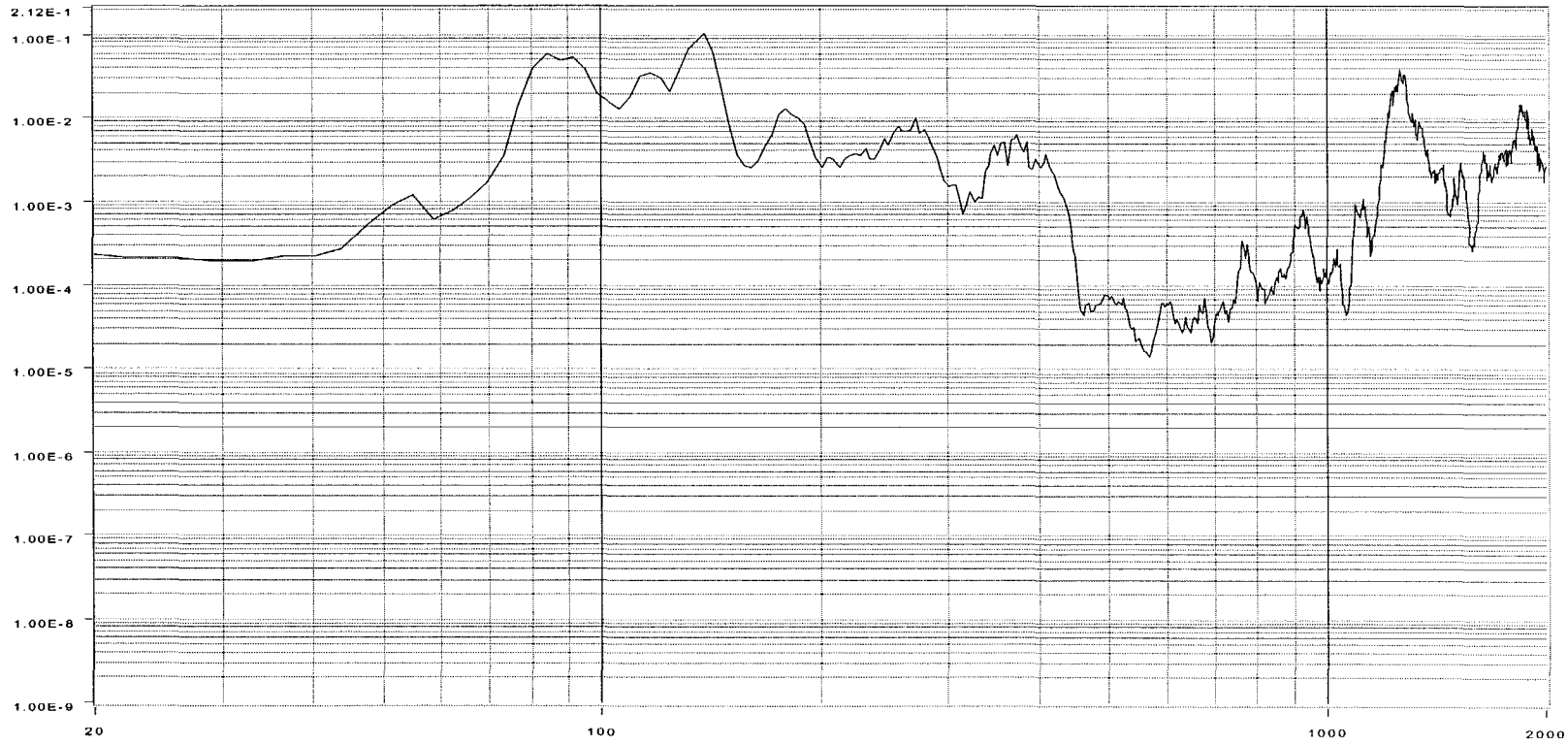
Channel #: 40 **Node Number:** 0040

Channel Label: A2Y: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 8 SN=AB06

Start Time: 96.00

RMS= 3.034E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Y: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

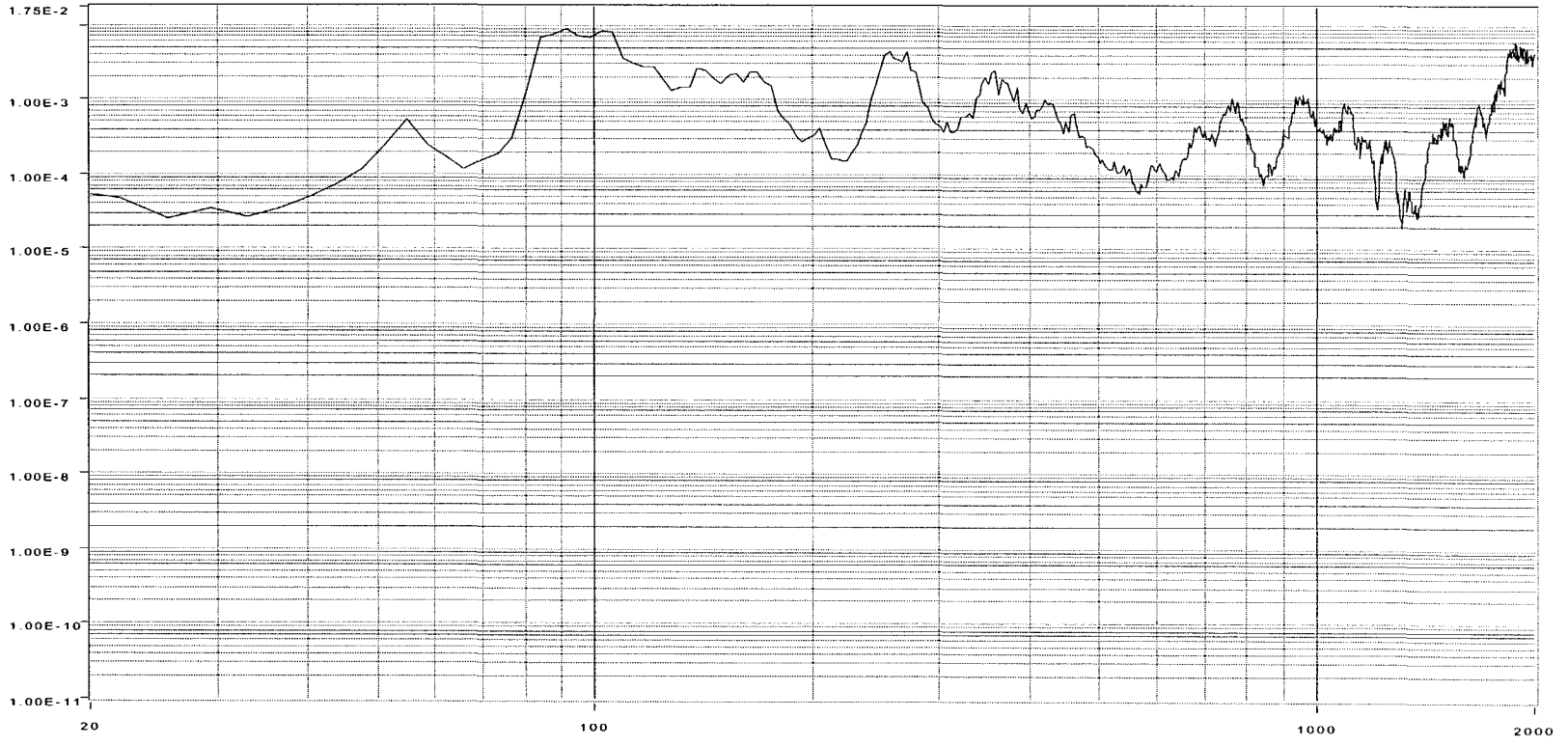
Channel #: 41 Node Number: 0041

Channel Label: A2Z: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 9 SN=AF28

Start Time: 96.00

RMS= 1.374E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2Z: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

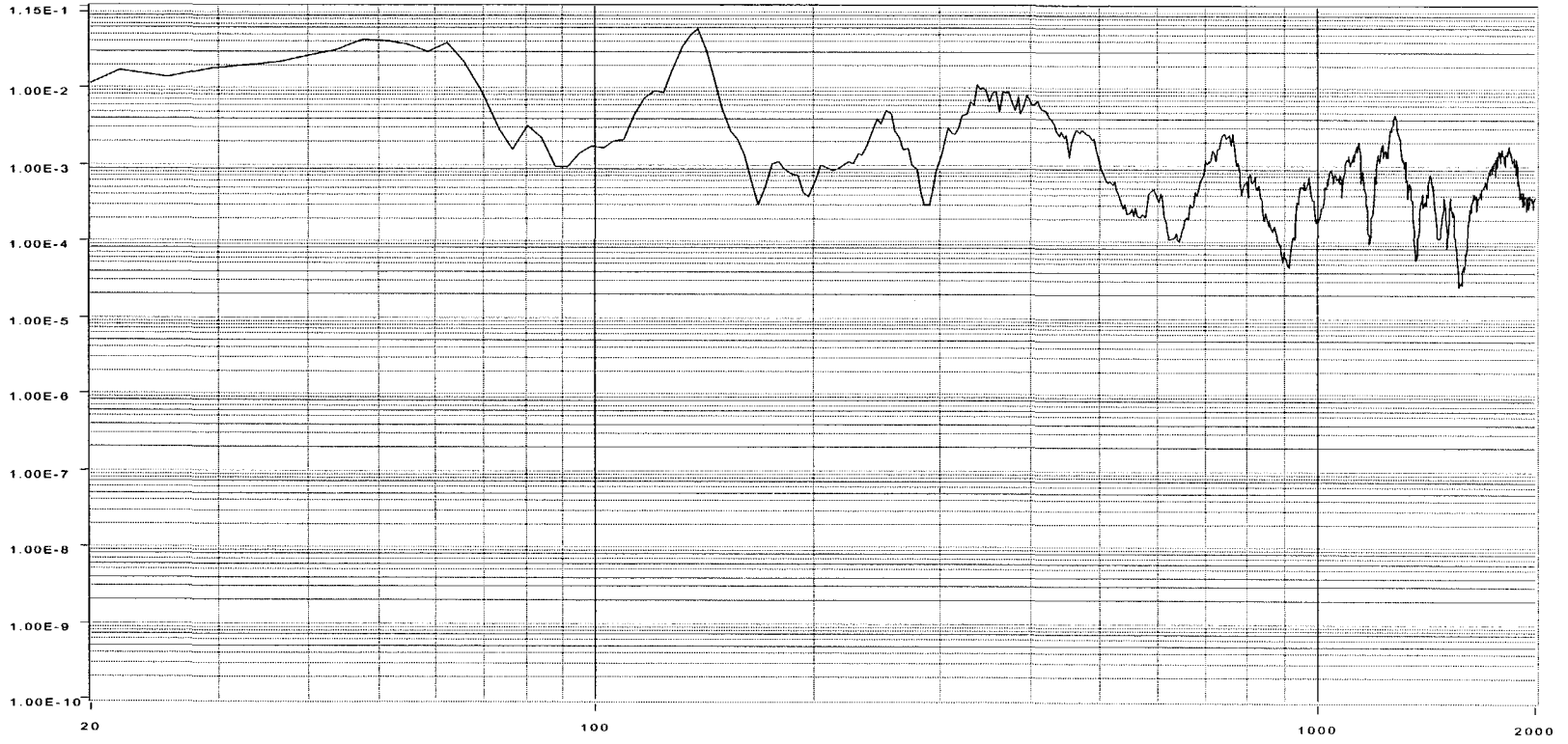
Channel #: 42 **Node Number:** 0042

Channel Label: A2RX: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 10 SN=AJ30

Start Time: 96.00

RMS= 2.127E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RX: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

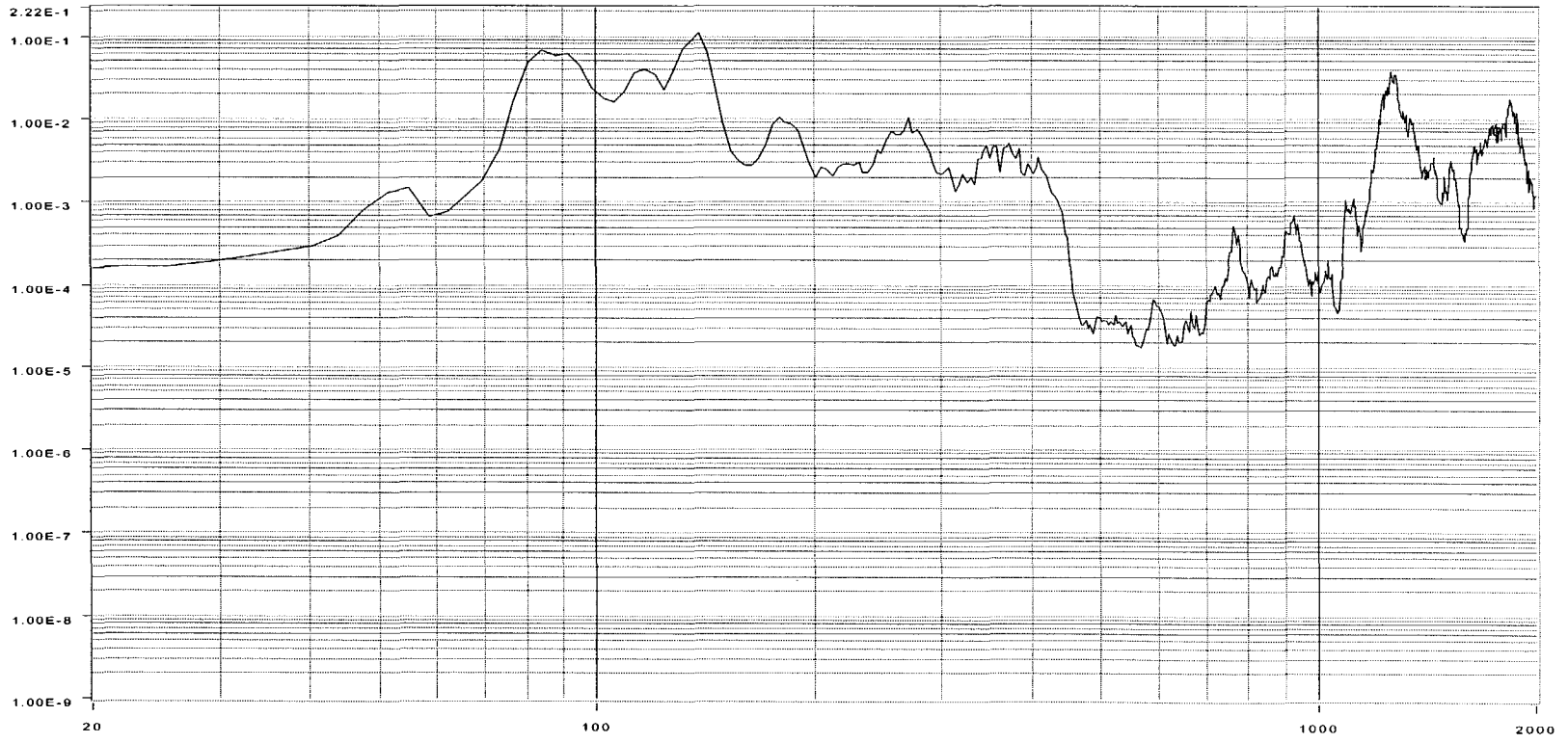
Channel #: 43 Node Number: 0043

Channel Label: A2RY: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 11 SN=AE60

Start Time: 96.00

RMS= 3.176E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RY: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

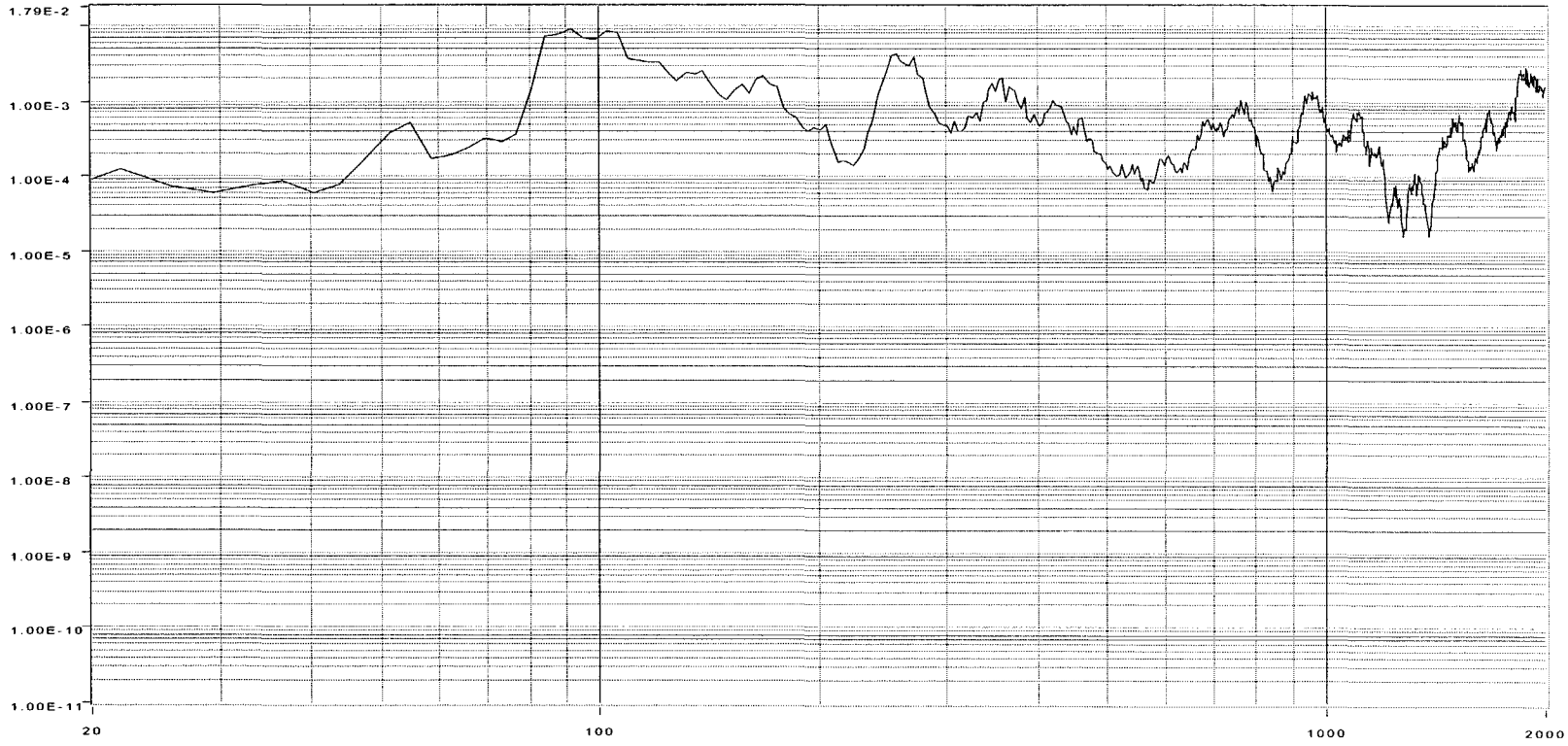
Channel #: 44 Node Number: 0044

Channel Label: A2RZ: +Y PANEL LOWER TEU

Channel Description: BOX 3 CH 12 SN=AG01

Start Time: 96.00

RMS= 1.194E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A2RZ: +Y PANEL LOWER TEU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

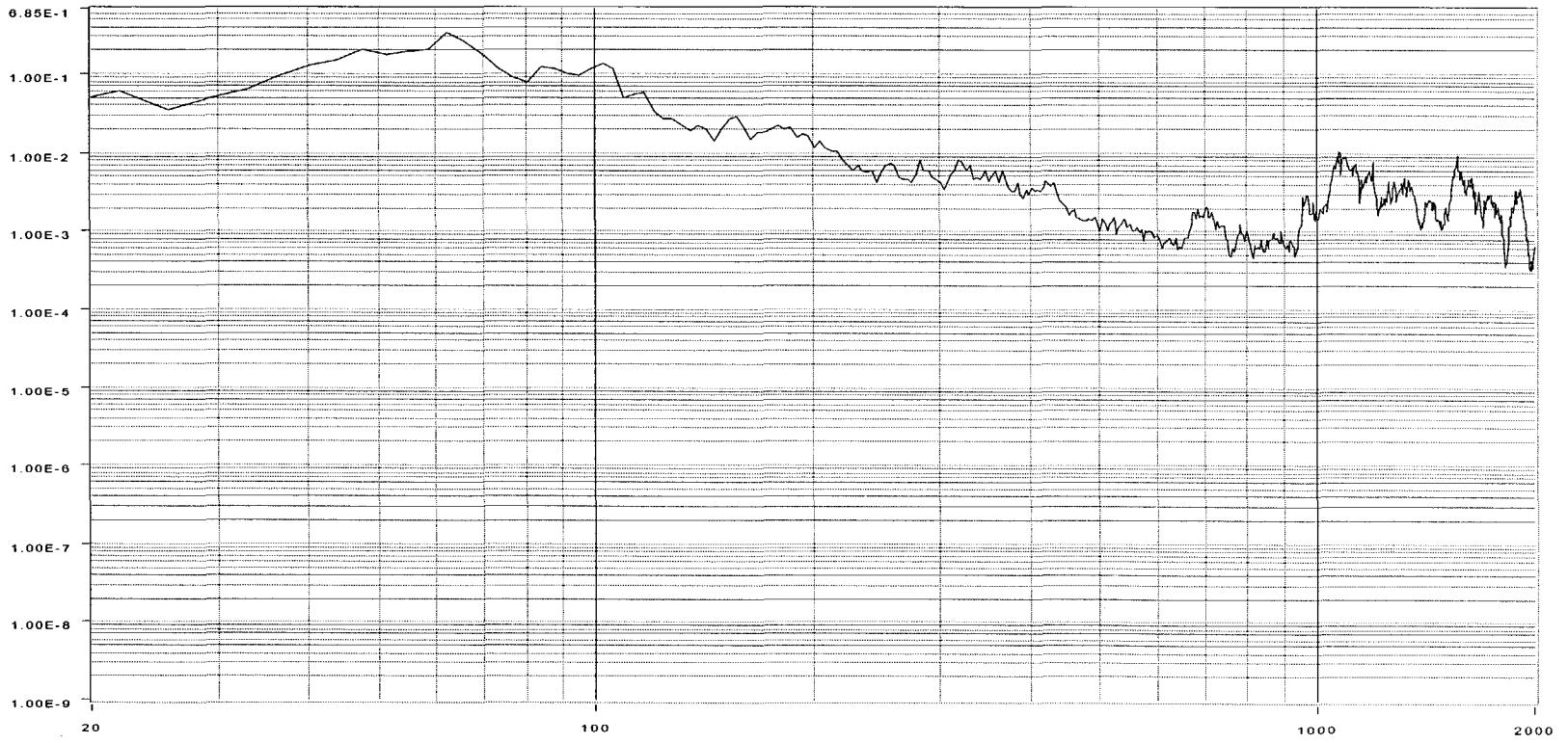
Channel #: 45 Node Number: 0045

Channel Label: A3X: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 13 SN=BC39

Start Time: 96.00

RMS= 4.381E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3X: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

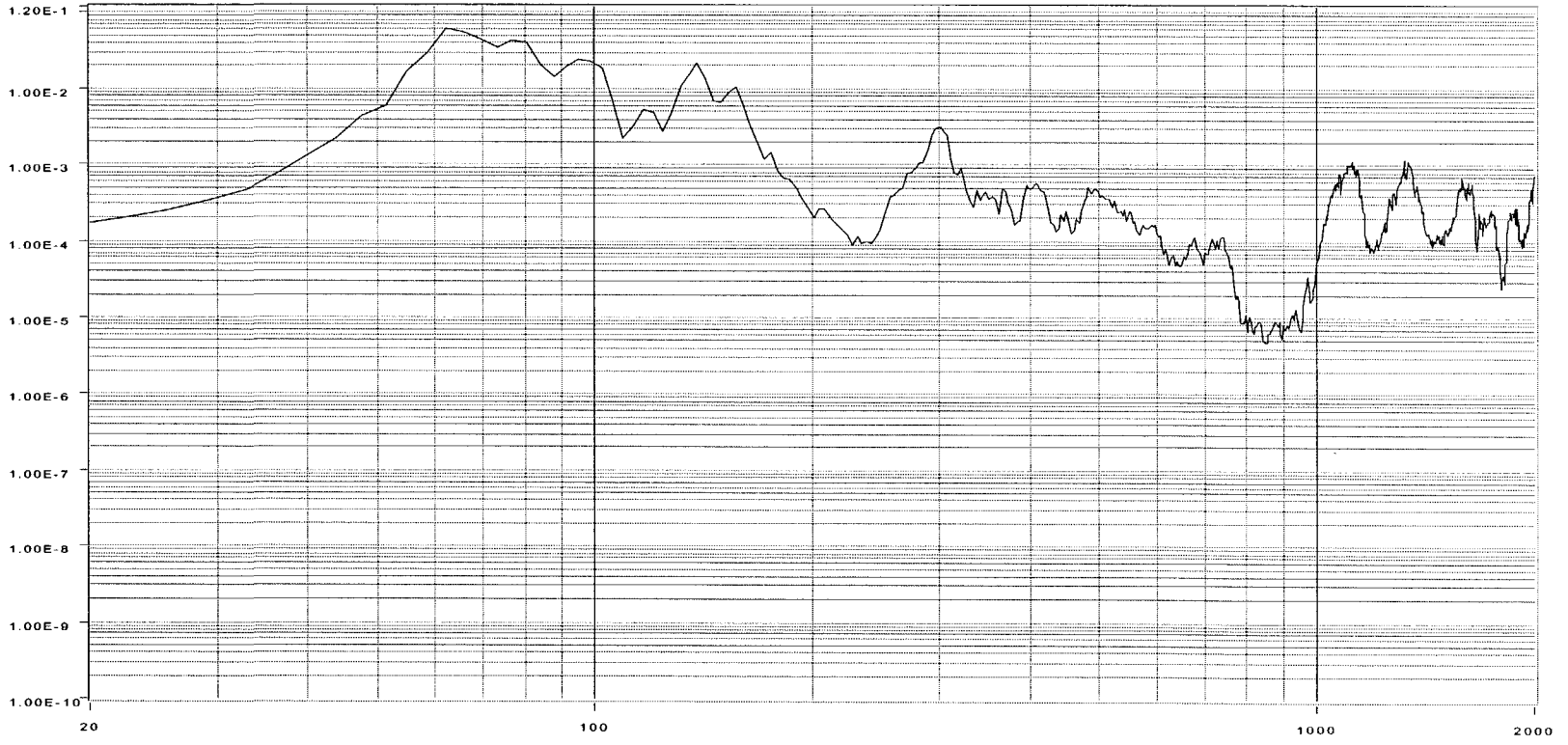
Channel #: 46 Node Number: 0046

Channel Label: A3Y: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 14 SN=AG02

Start Time: 96.00

RMS= 1.647E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Y: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

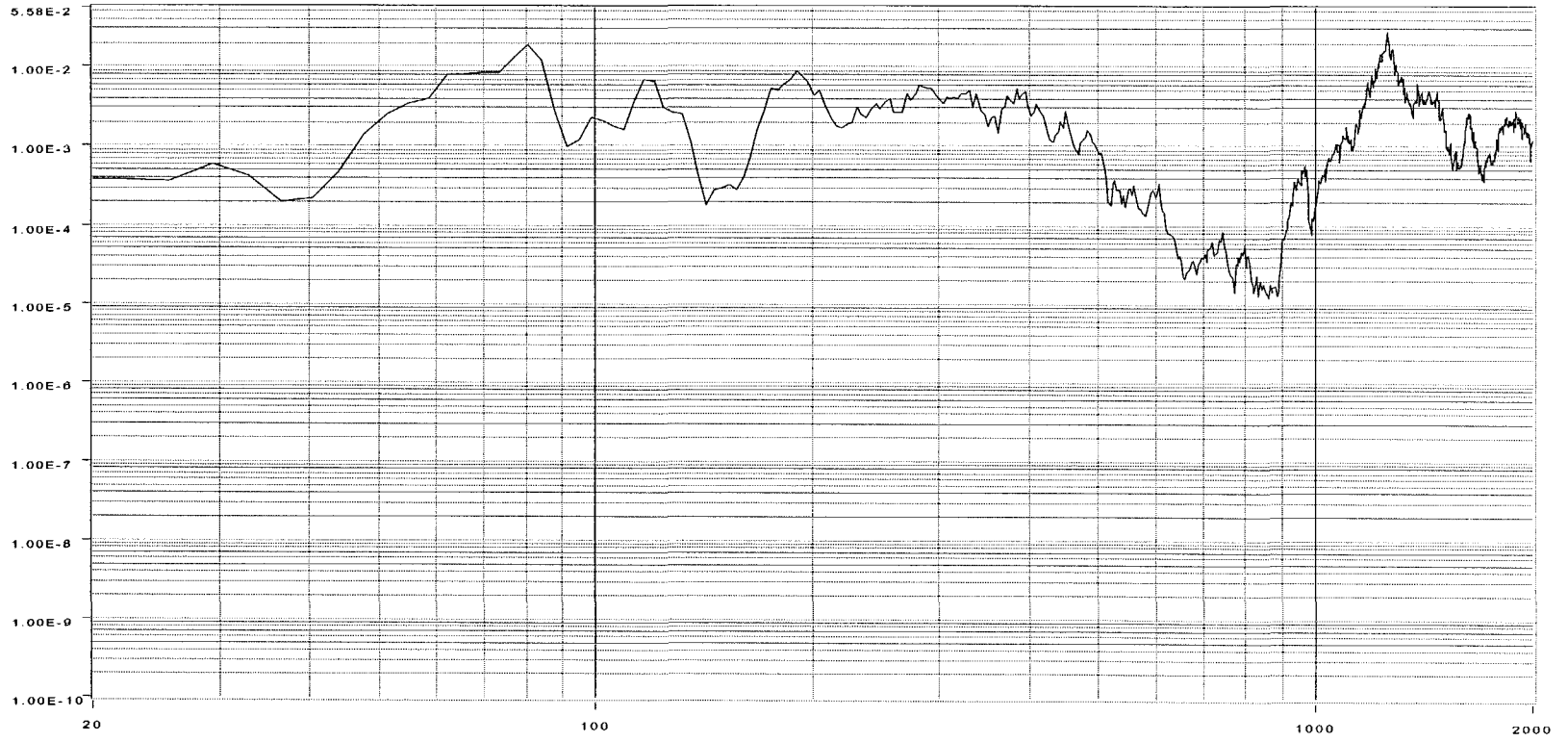
Channel #: 47 **Node Number:** 0047

Channel Label: A3Z: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 15 SN=BC12

Start Time: 96.00

RMS= 2.178E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3Z: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

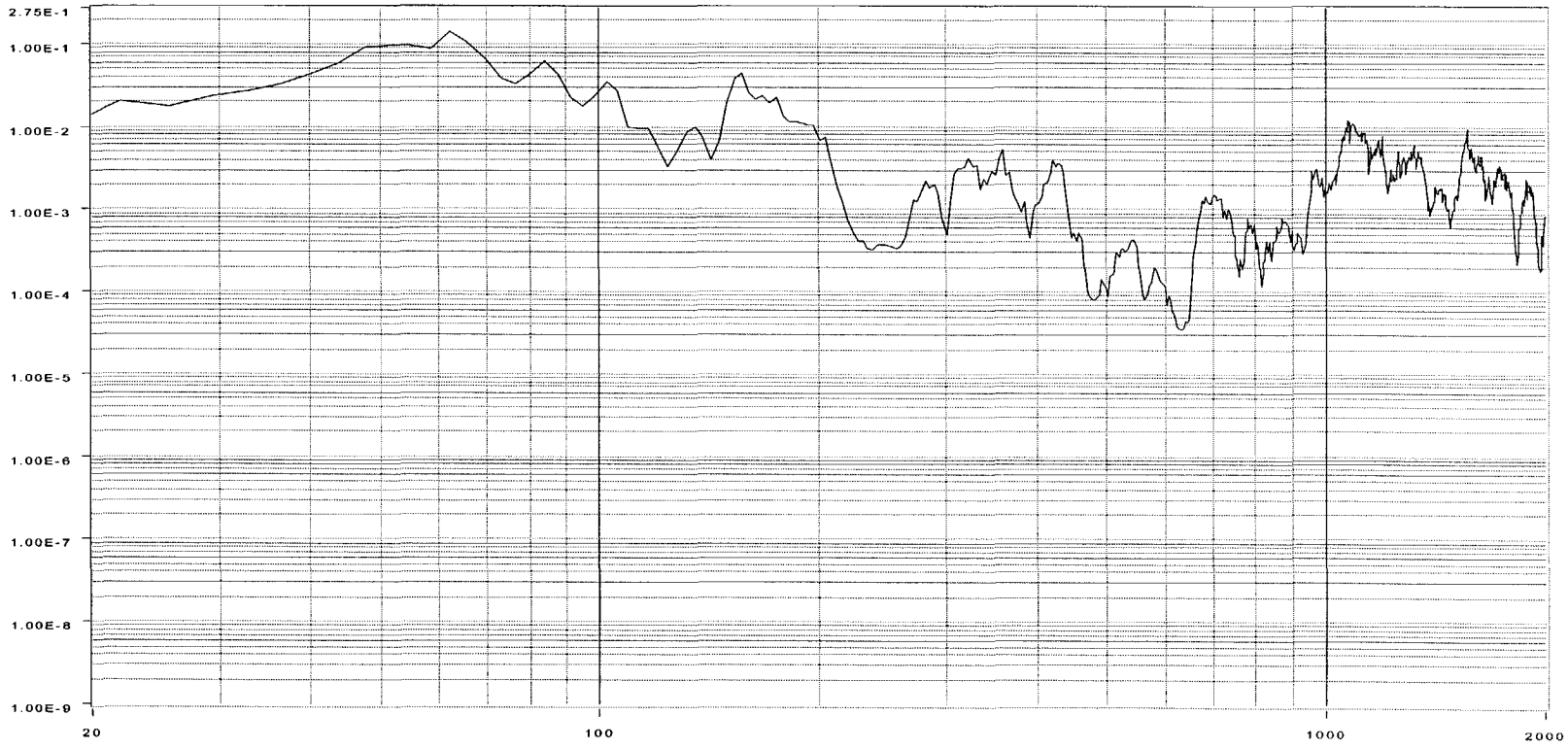
Channel #: 48 Node Number: 0048

Channel Label: A3RX: +X PANEL UPPER CCU

Channel Description: BOX 3 CH 16 SN=AE43

Start Time: 96.00

RMS= 3.125E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RX: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 4:24 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

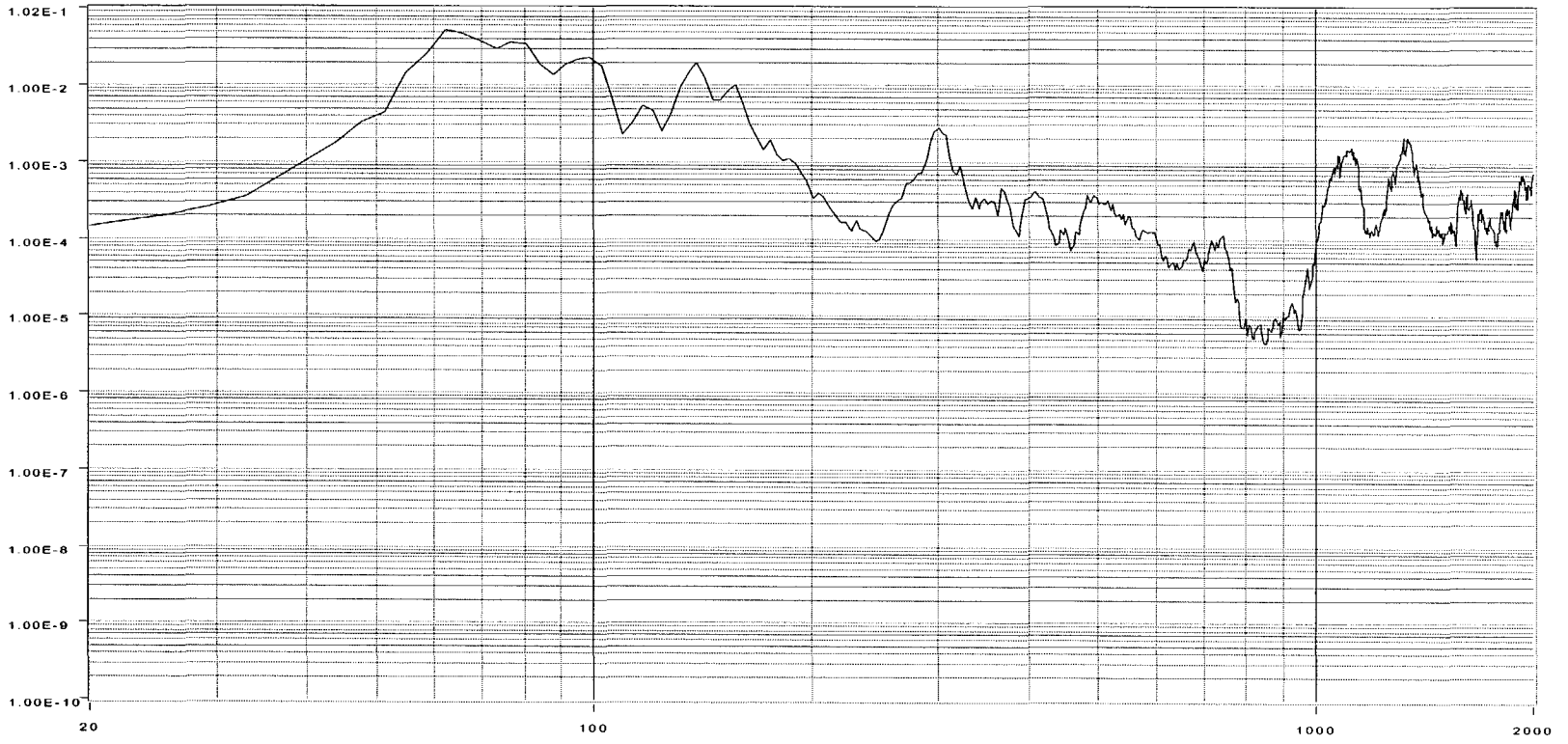
Channel #: 49 **Node Number:** 0049

Channel Label: A3RY: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 1 SN=AF57

Start Time: 96.00

RMS= 1.606E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RY: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

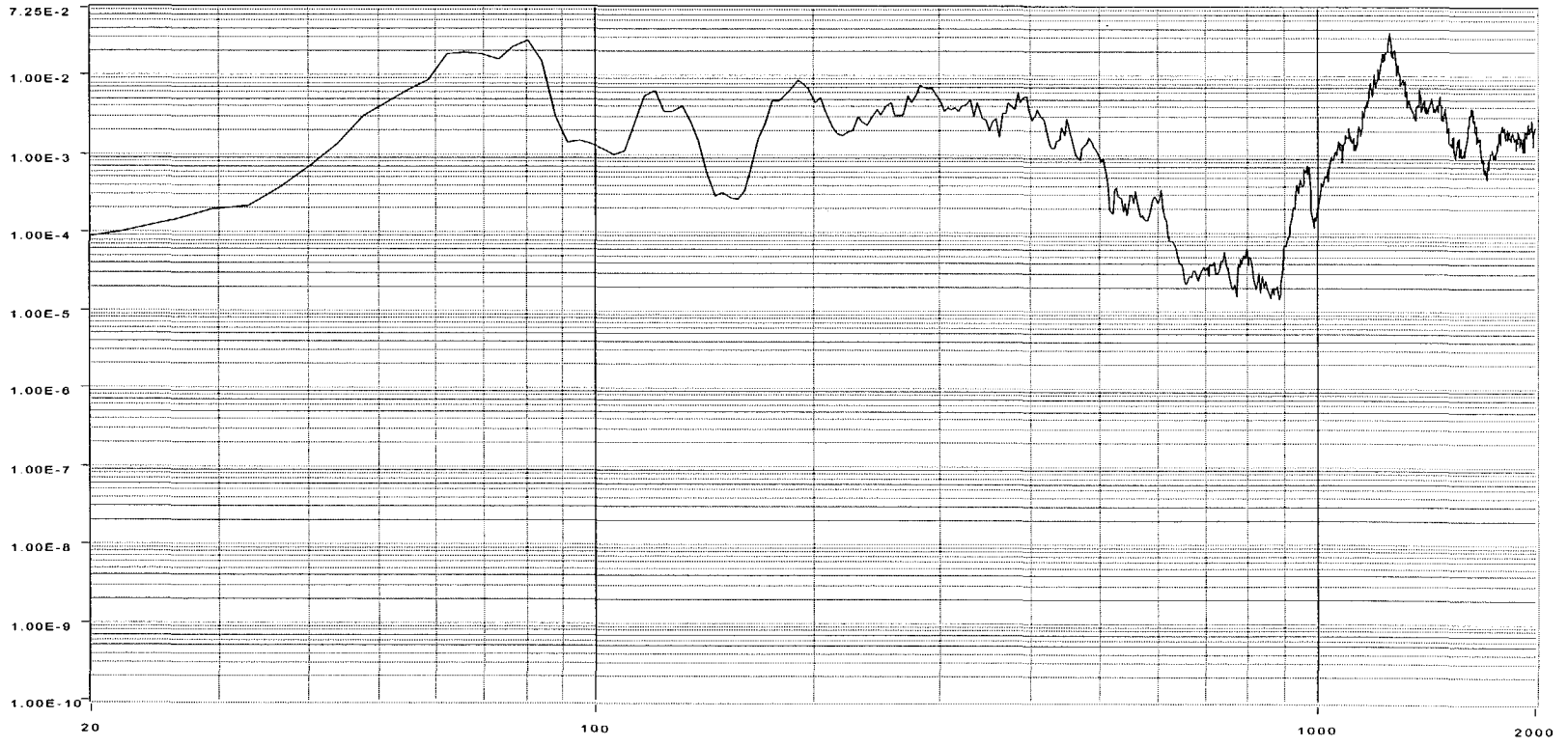
Channel #: 50 Node Number: 0050

Channel Label: A3RZ: +X PANEL UPPER CCU

Channel Description: BOX 4 CH 2 SN=AB65

Start Time: 96.00

RMS= 2.403E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A3RZ: +X PANEL UPPER CCU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

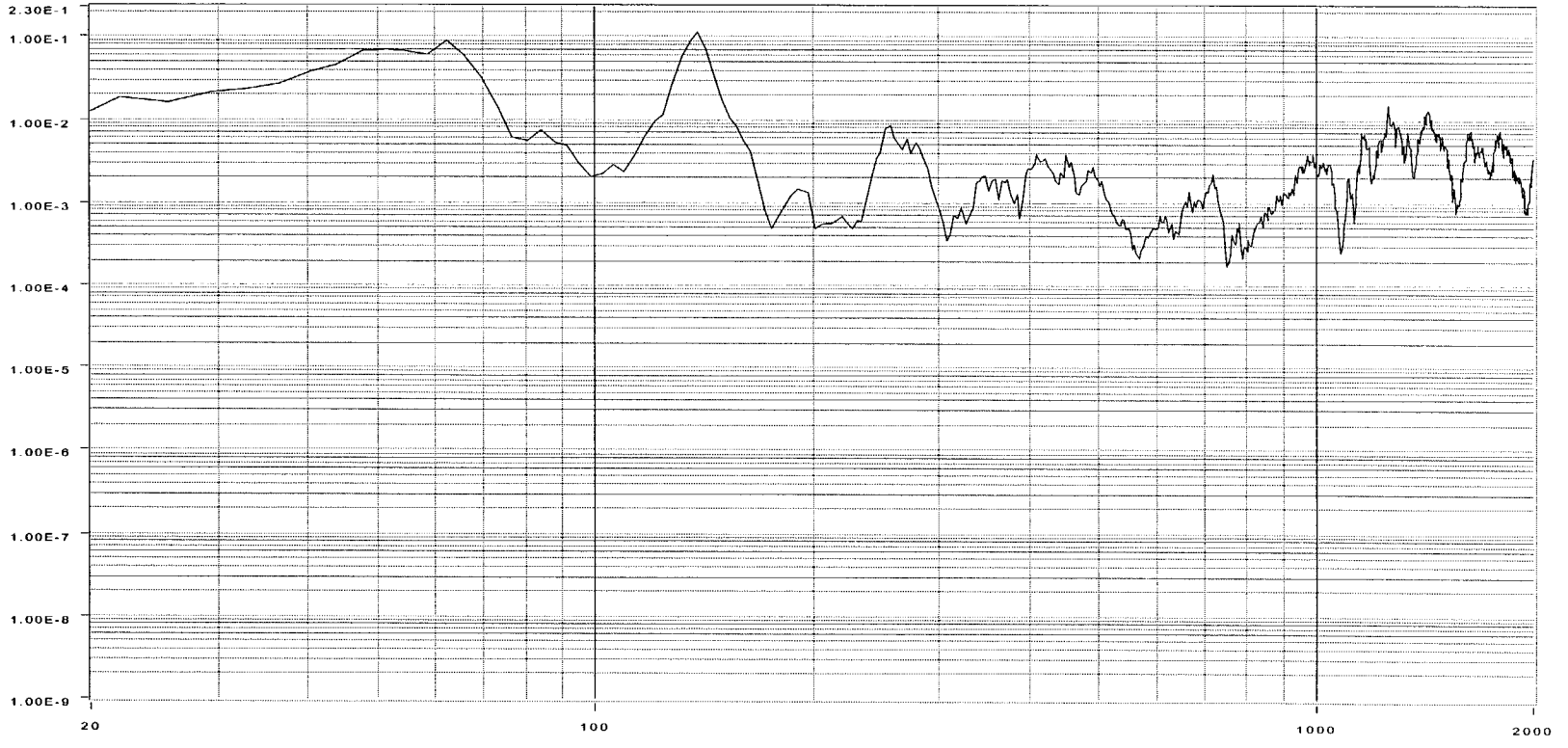
Channel #: 51 Node Number: 0051

Channel Label: A4X: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 3 SN=AH55

Start Time: 96.00

RMS= 3.091E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4X: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

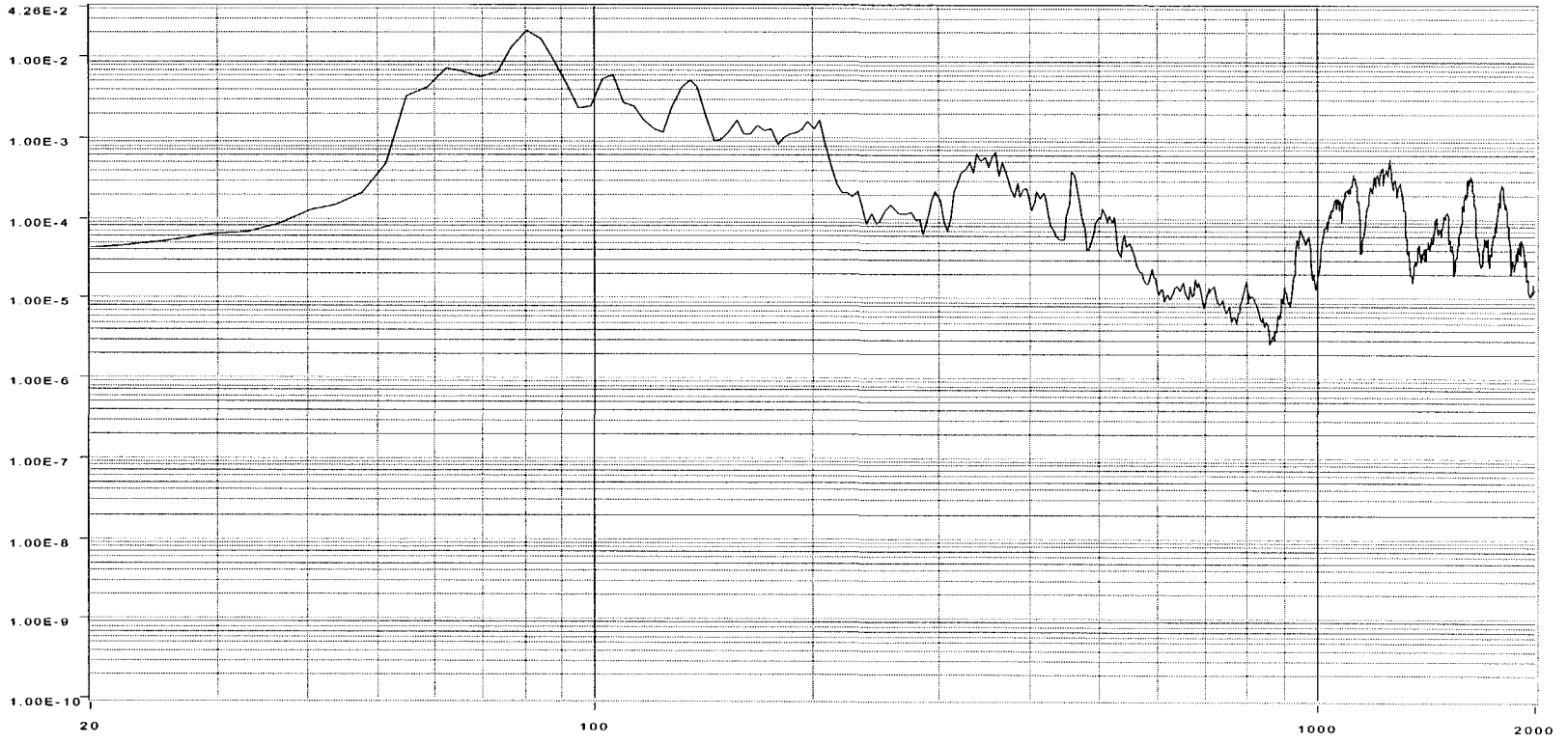
Channel #: 52 Node Number: 0052

Channel Label: A4Y: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 4 SN=AJ95

Start Time: 96.00

RMS= 8.906E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Y: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

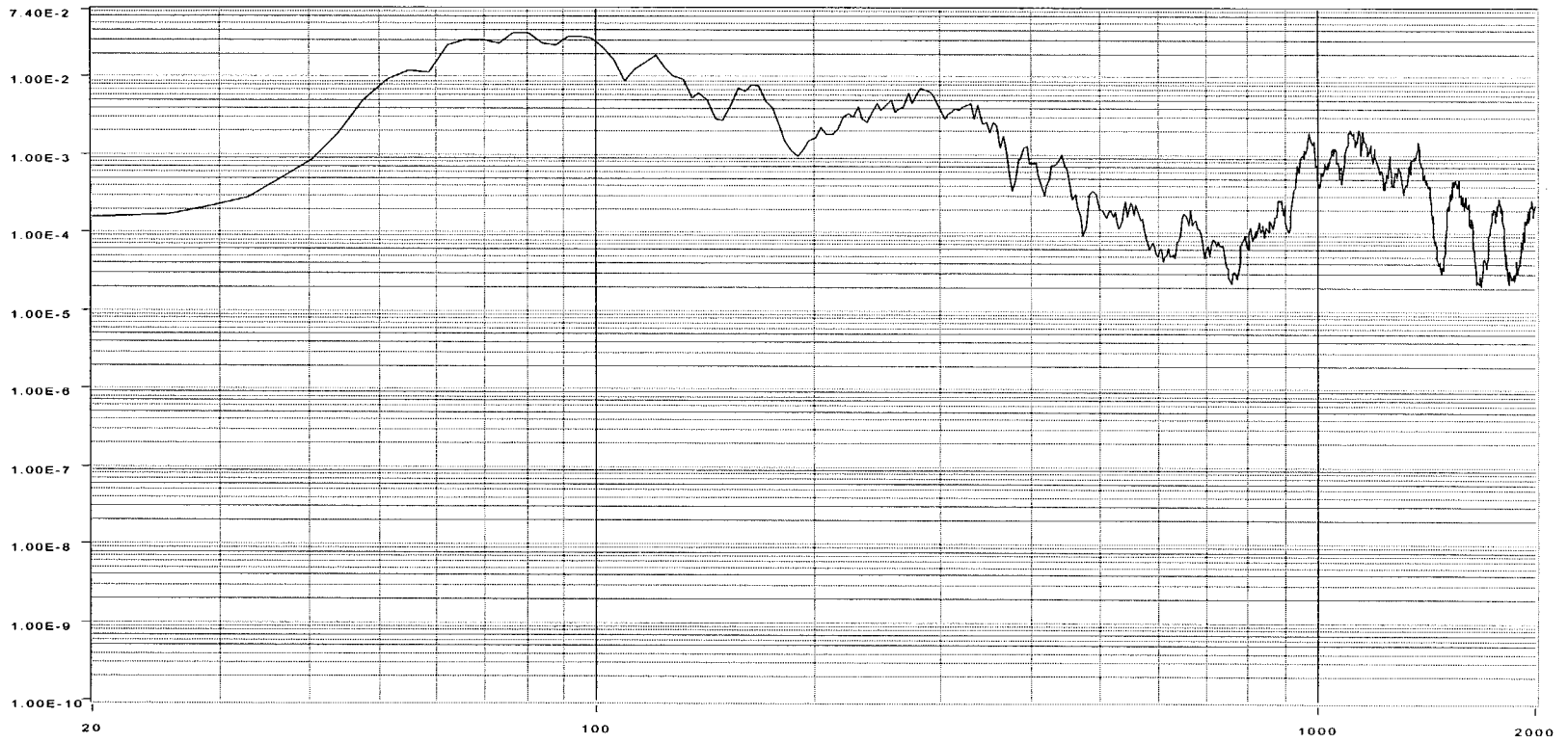
Channel #: 53 Node Number: 0053

Channel Label: A4Z: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 5 SN=AB55

Start Time: 96.00

RMS= 1.840E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4Z: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

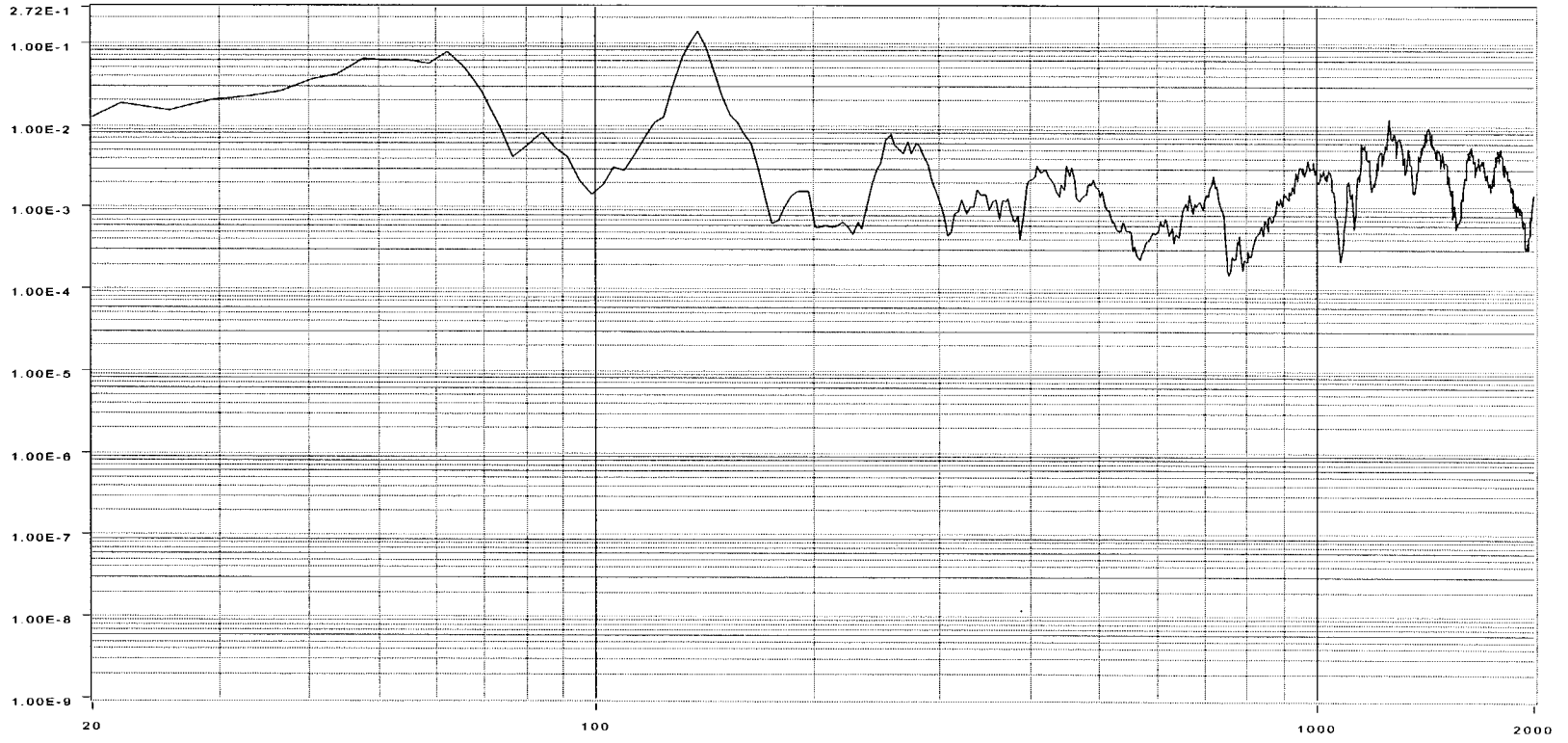
Channel #: 54 **Node Number:** 0054

Channel Label: A4RX: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 6 SN=AF10

Start Time: 96.00

RMS= 2.918E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RX: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

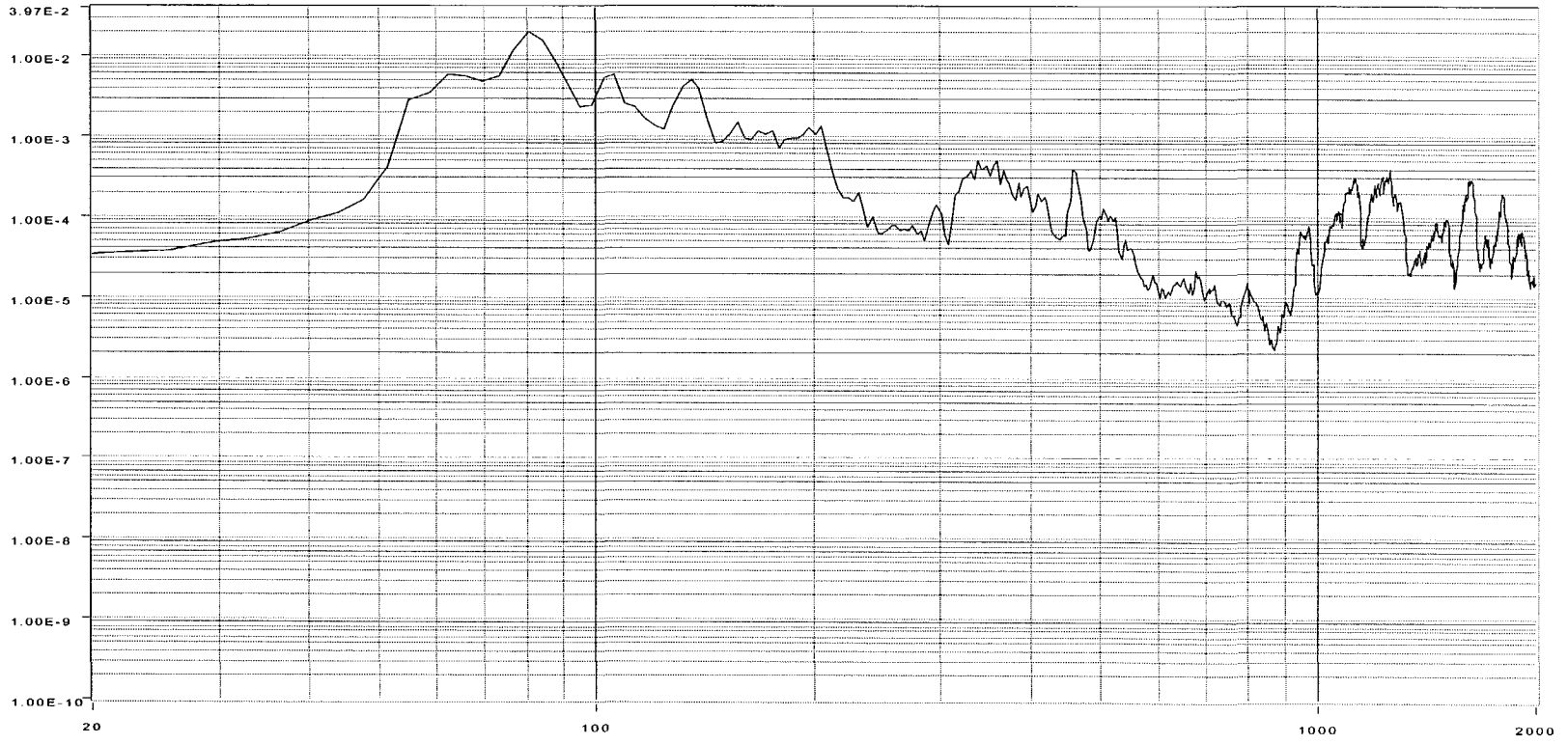
Channel #: 55 Node Number: 0055

Channel Label: A4RY: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 7 SN=AF56

Start Time: 96.00

RMS= 8.394E-1



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RY: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

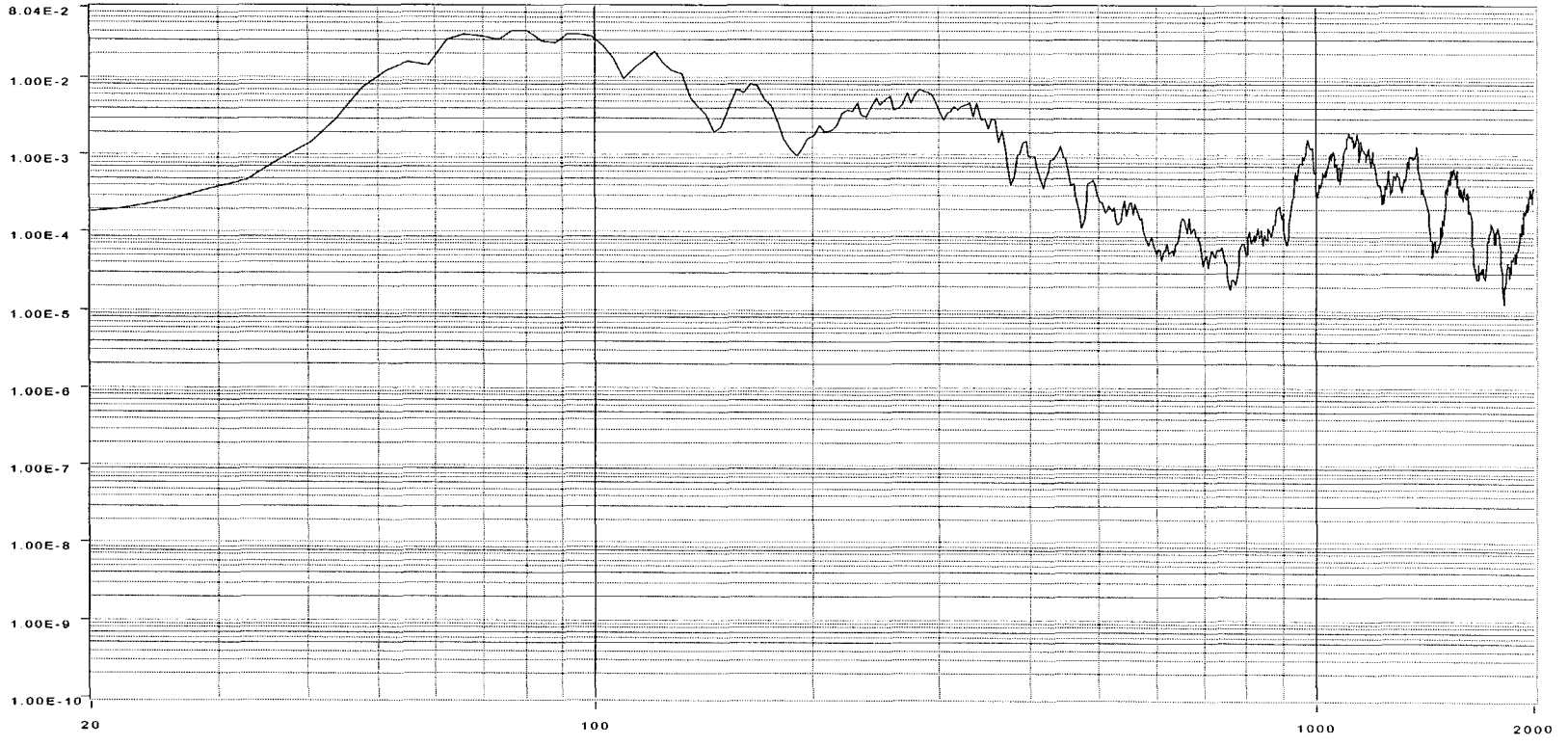
Channel #: 56 **Node Number:** 0056

Channel Label: A4RZ: +Y PANEL MID-CMU

Channel Description: BOX 4 CH 8 SN=AD53

Start Time: 96.00

RMS= 1.900E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

A4RZ: +Y PANEL MID-CMU

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

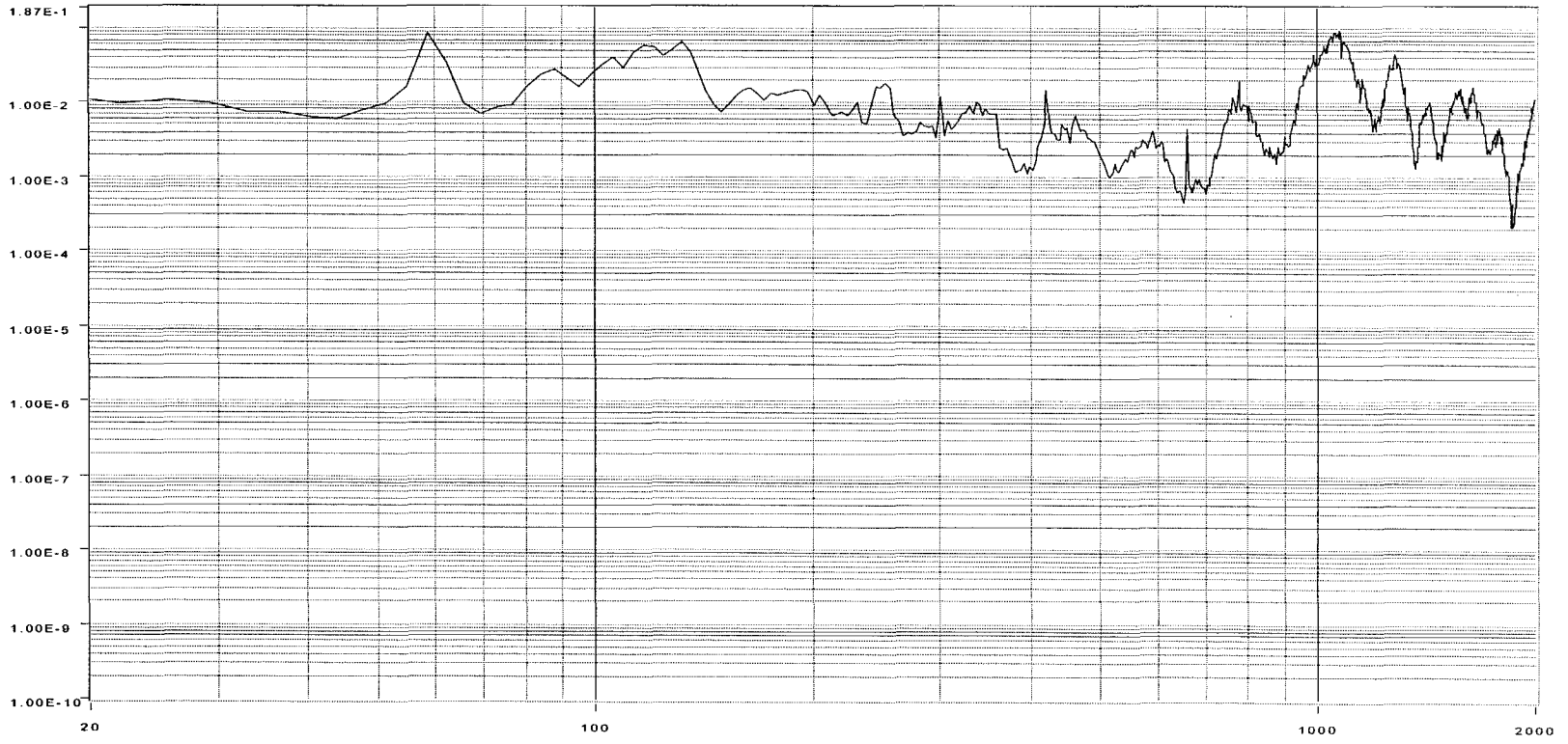
Channel #: 57 Node Number: 0057

Channel Label: F1: FLY AWAY

Channel Description: BOX 4 CH 9 SN=BF27

Start Time: 96.00

RMS= 4.789E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

F1: FLY AWAY

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

Power Spectral Density

Lockheed Martin Missiles and Space

Test date & Time: 24-Jun-2002 4:7:25

Test title: HIRDLS VIBRATION TEST: X-AXIS 0db random

Specimen name: HIRDLS VIBRATION TEST

Test type: Random

Test file number: 062404

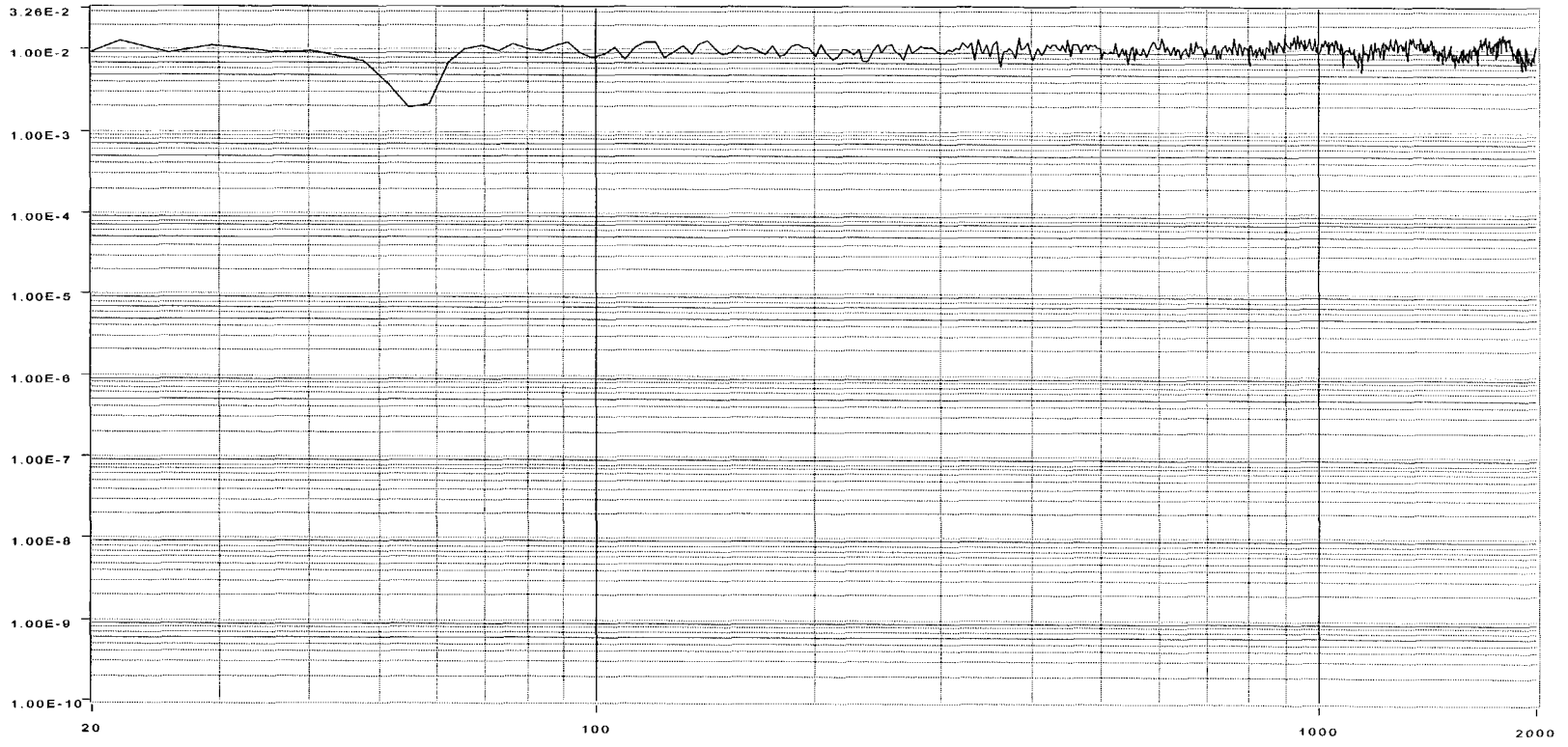
Test description: HIRDLS VIBRATION TEST: X-AXIS 0db random

Part number/id: Y4011

Average of Channels: 1 & 4

Start Time: 96.00

RMS= 4.516E+0



Degrees of Freedom: 100 dF(Hz): 3.66 Magnitude Detection: Average

Average of Channels: 1 & 4

Analysis Date & time: 6/24/02 4:25 AM Spectrum Type: Power Spectral Density (PSD)

LOCKHEED MARTIN MISSILES & SPACE

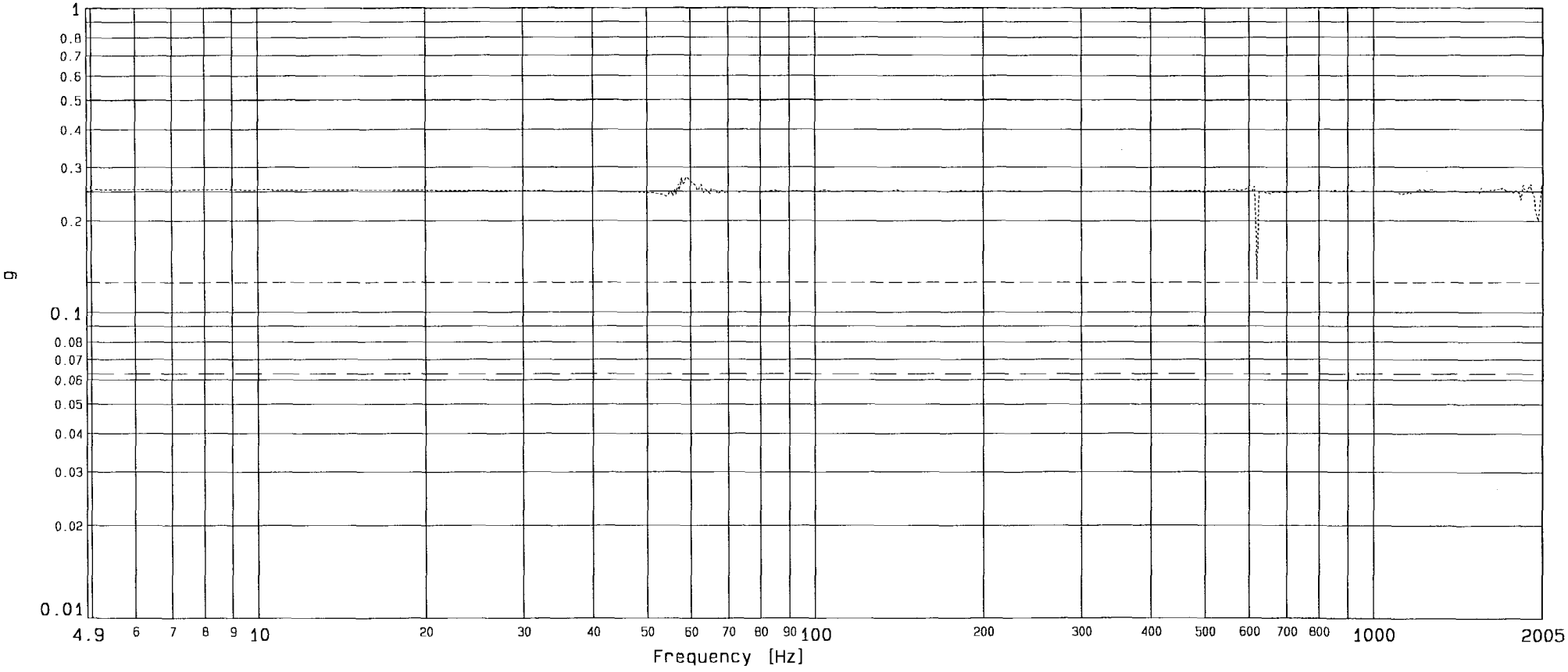
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04:50:22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Control strategy : Average
Nbr of control channels : 2

Trace identification :
- Reference
- Avg Ctrl
- Upper Al
- Lower Al
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

LOCKHEED MARTIN MISSILES & SPACE

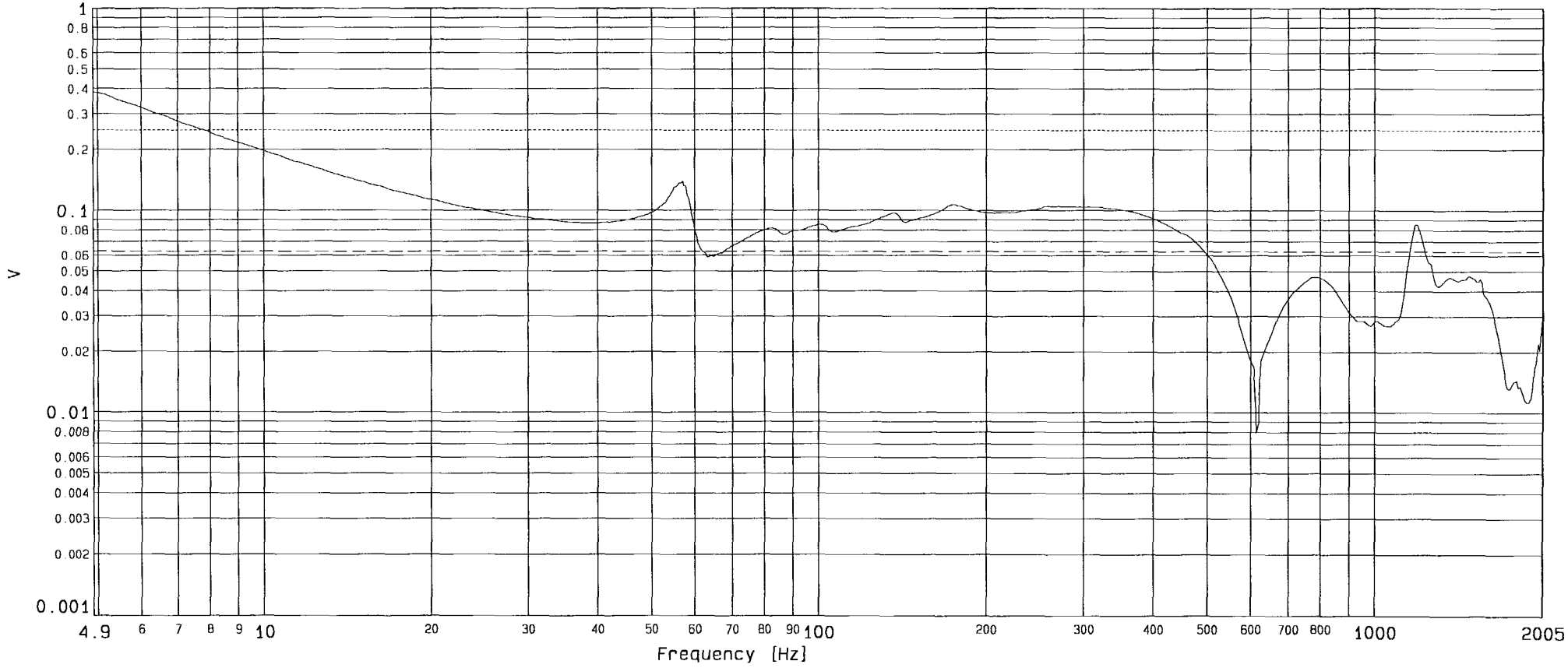
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04:50:22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 385.73e-03 V

Trace identification :
- Drive
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

LOCKHEED MARTIN MISSILES & SPACE

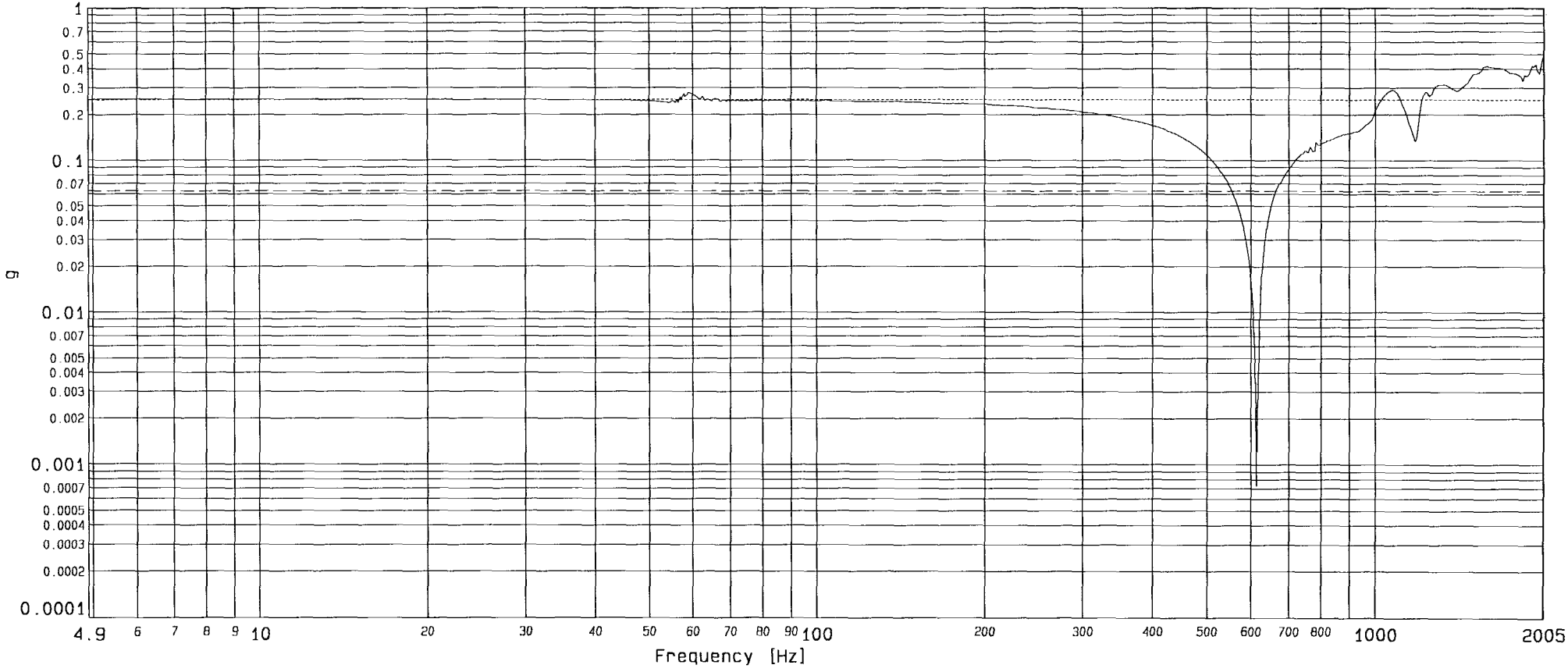
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04:50:22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 486.62e-03 g

Trace identification :
- N_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

LOCKHEED MARTIN MISSILES & SPACE

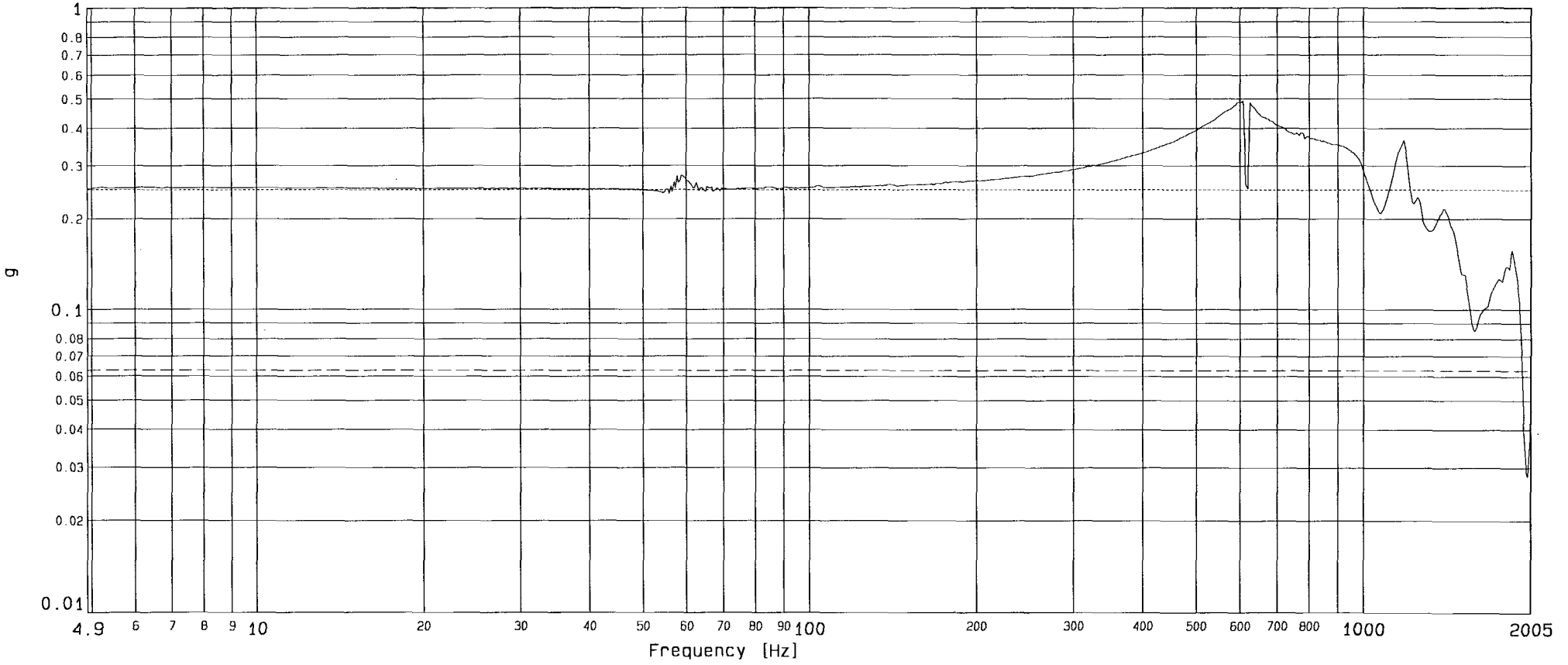
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04: 50: 22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 493.99e-03 g

Trace identification :
- S_CONTROL_X
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

LMS

LOCKHEED MARTIN MISSILES & SPACE

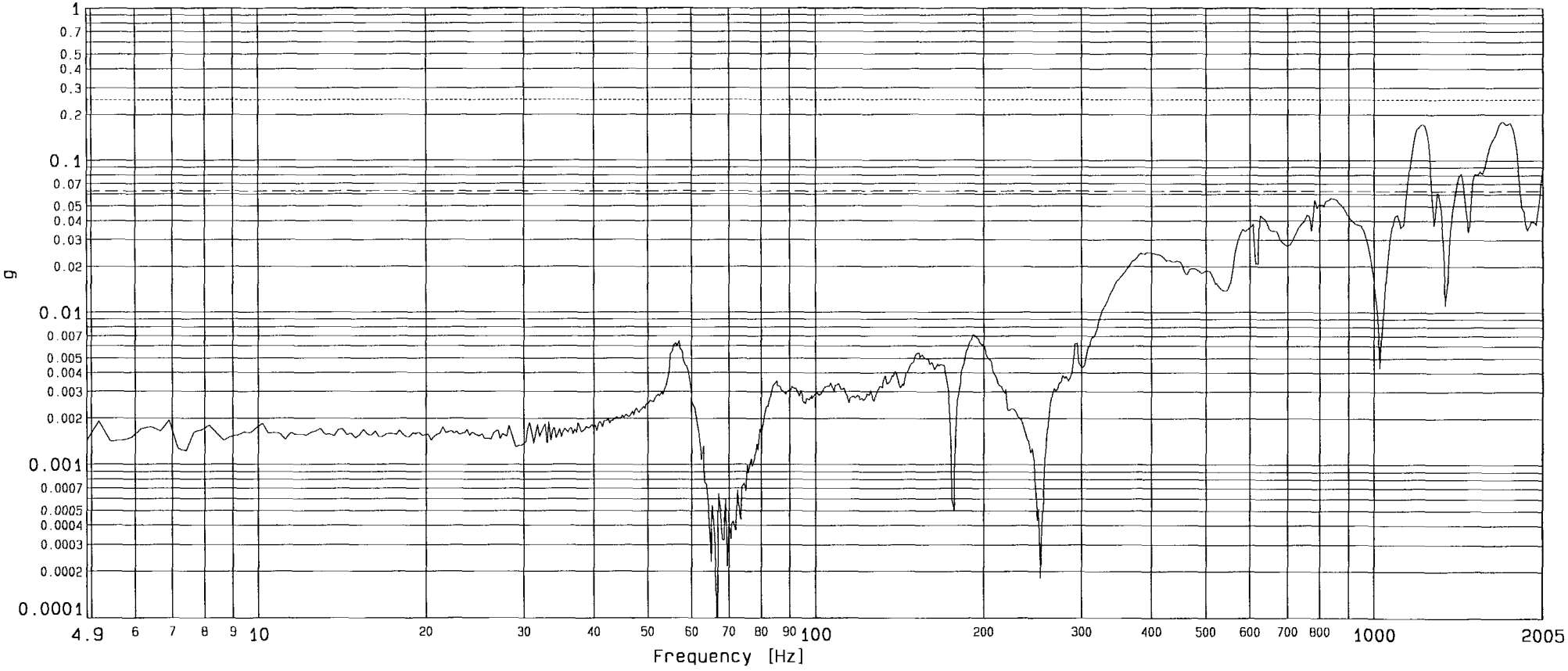
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04:50:22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 179.64e-03 g

Trace identification :
- N_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIADLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

LMS

LOCKHEED MARTIN MISSILES & SPACE

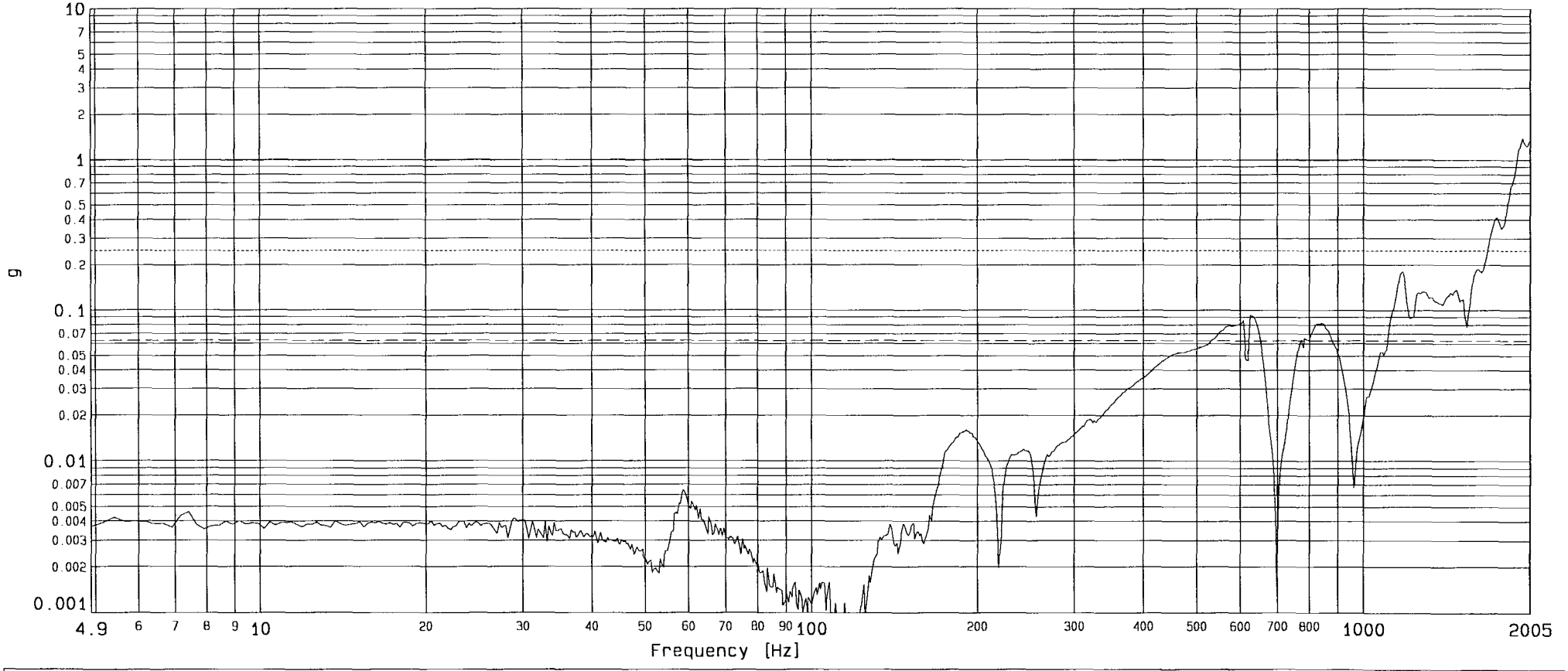
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04:50:22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 1.39 g

Trace identification :
- N_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

LOCKHEED MARTIN MISSILES & SPACE

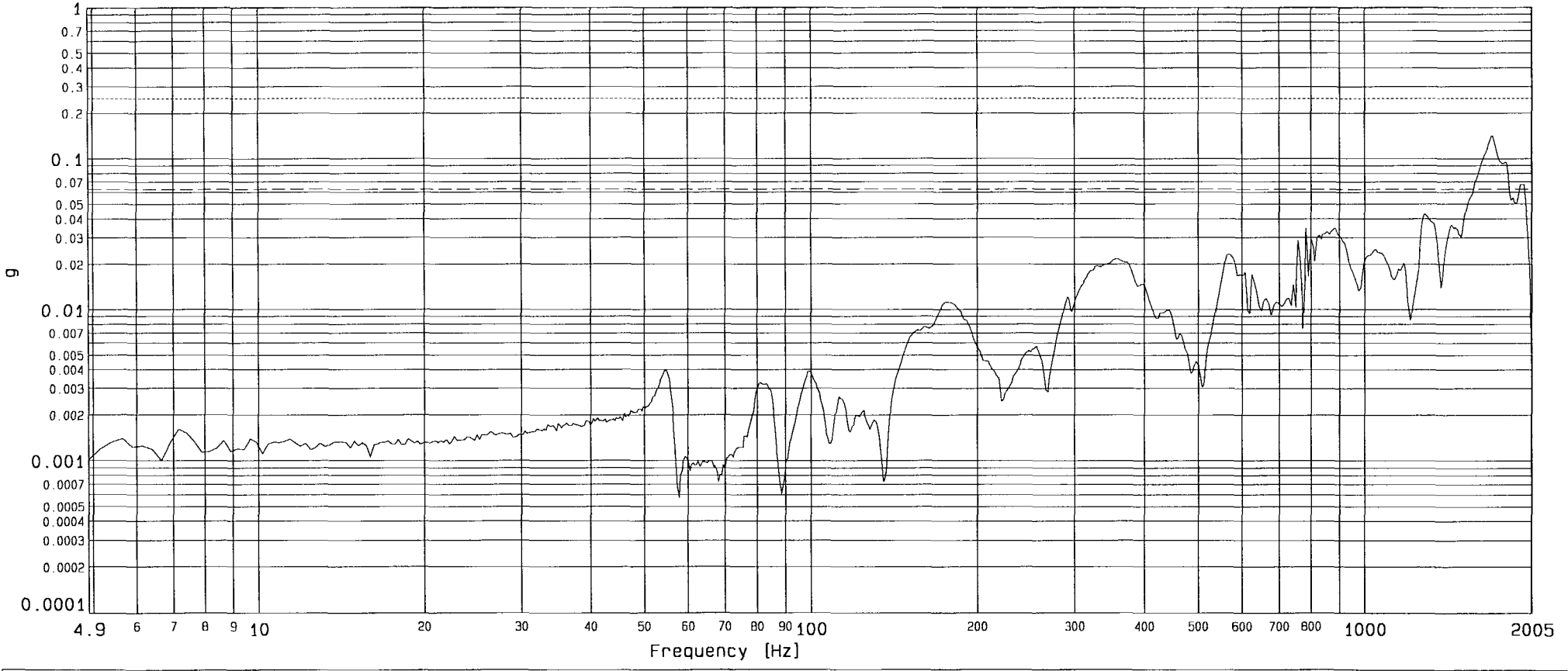
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04:50:22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 141.60e-03 g

Trace identification :
- S_CONTROL_Y
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

LOCKHEED MARTIN MISSILES & SPACE

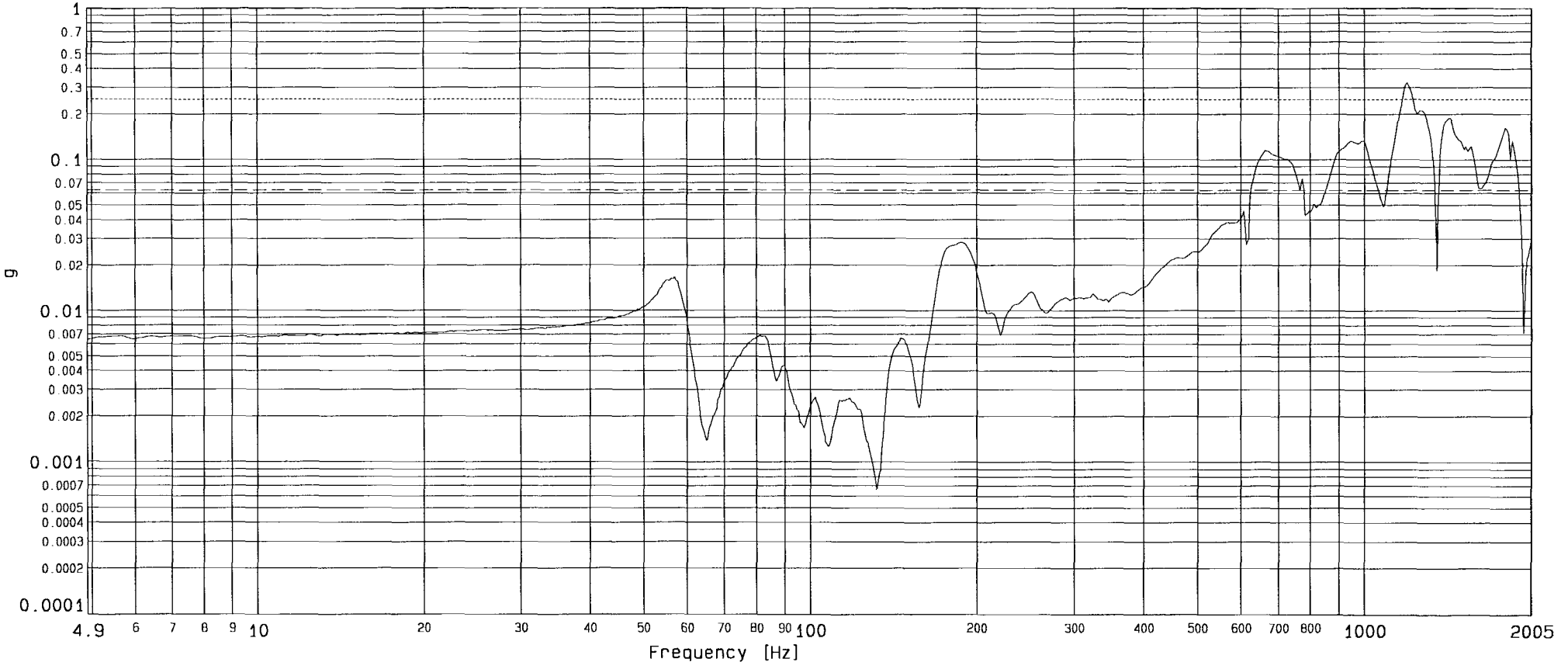
Project : hirdls
Test : X_Signature
Run : 3 062405

Date : 24-06-02
Time : 04:50:22
Mode : Sine Vibration Control

Sweeprate : 4.000 Oct/min
Sweep mode : LOG
Start frequency : 4.9
Sweeps done : 1
Frequency resolution : 0.250545 Hz

Maximum value : 323.06e-03 g

Trace identification :
- S_CONTROL_Z
- Reference
- Upper Ab
- Lower Ab



HIRDLS Z .25g Sine Sweep

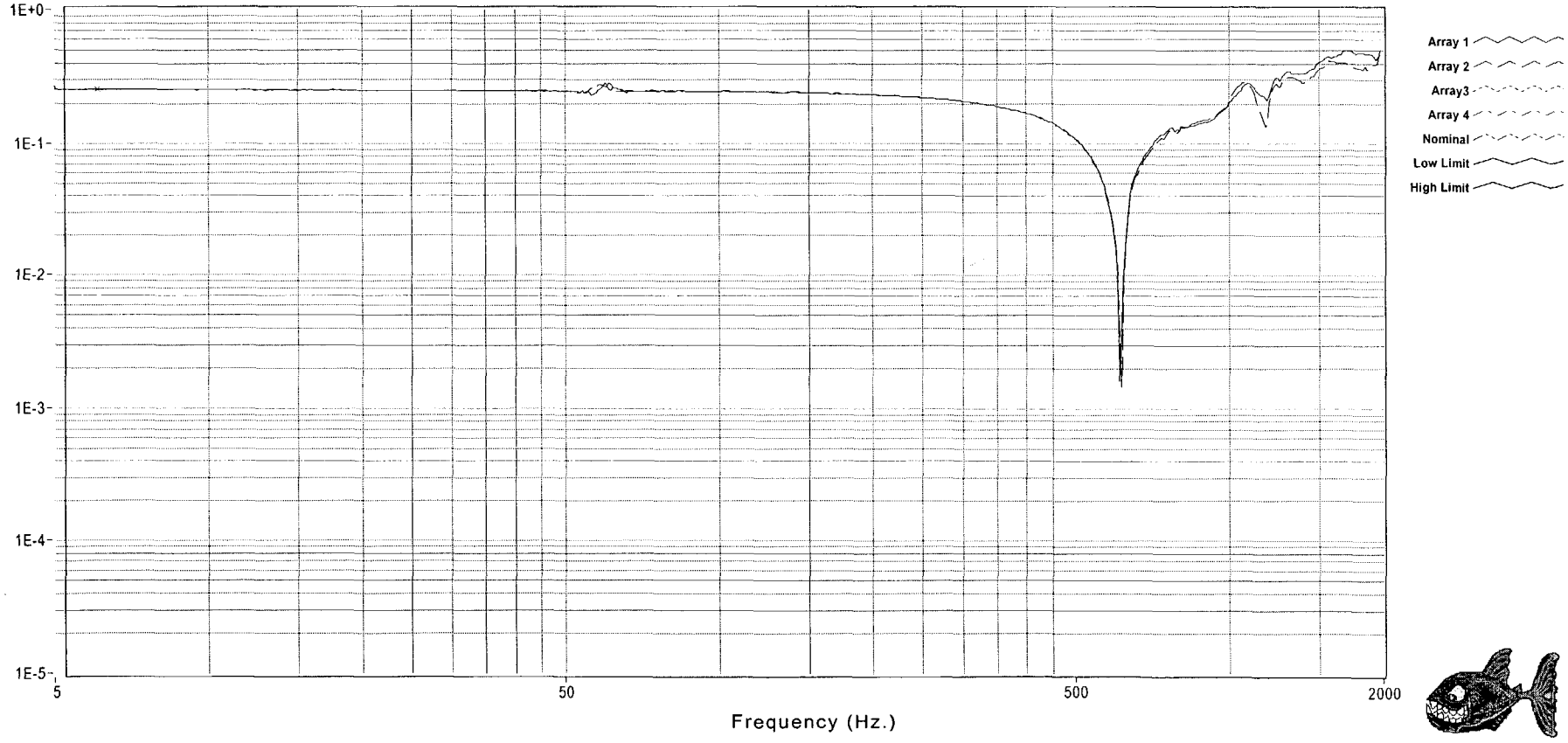
gain pot to 50% - dyn. amp. = .5

4.9-2005 Hz.

Run #062405

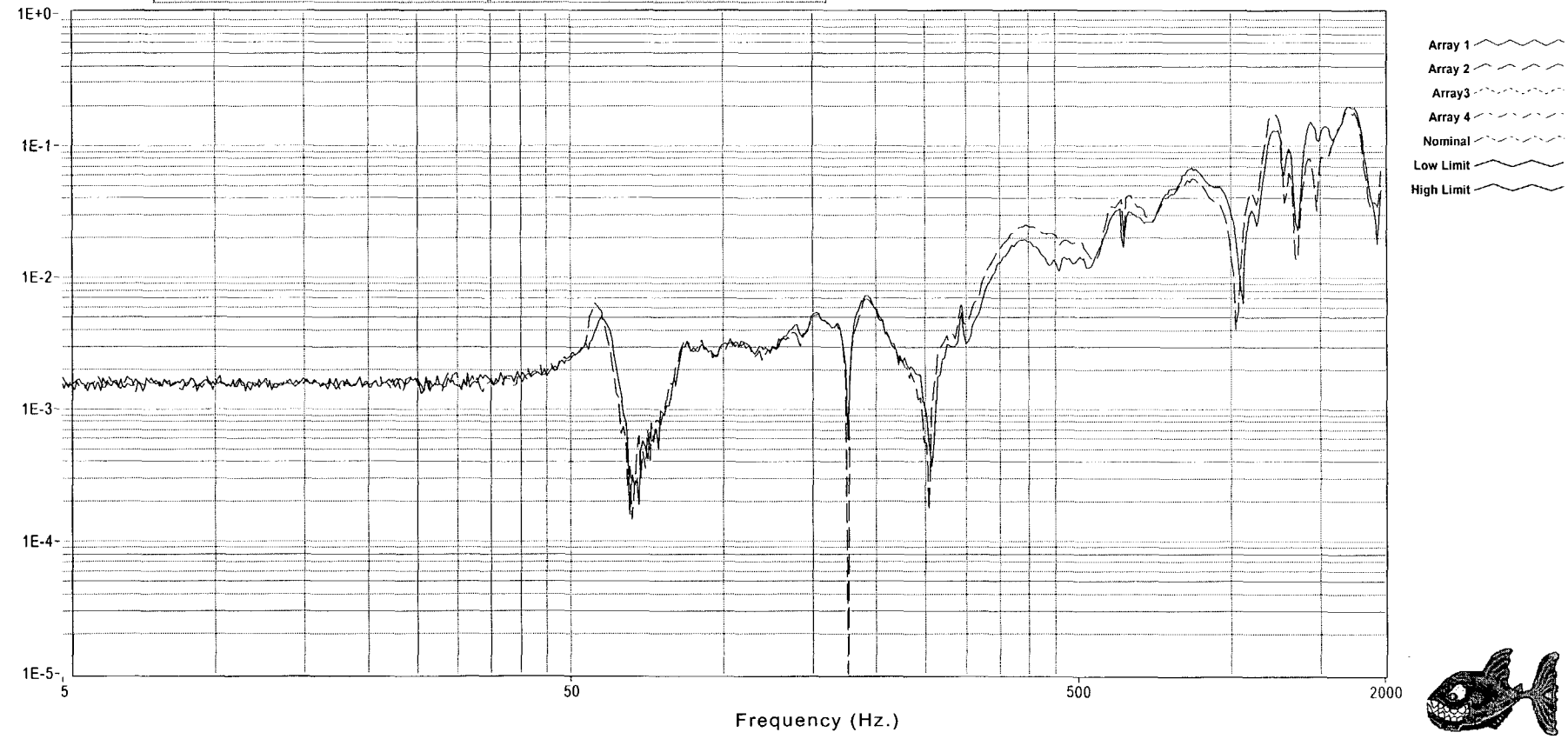
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401 North_Control_X Channel #1	Array 2 sine_Sine062405 North_Control_X Channel #1
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.038E-1 at 1681.0 Hz.	Maximum = 4.909E-1 at 1971.0 Hz.
Overall or RMS	N/A	N/A



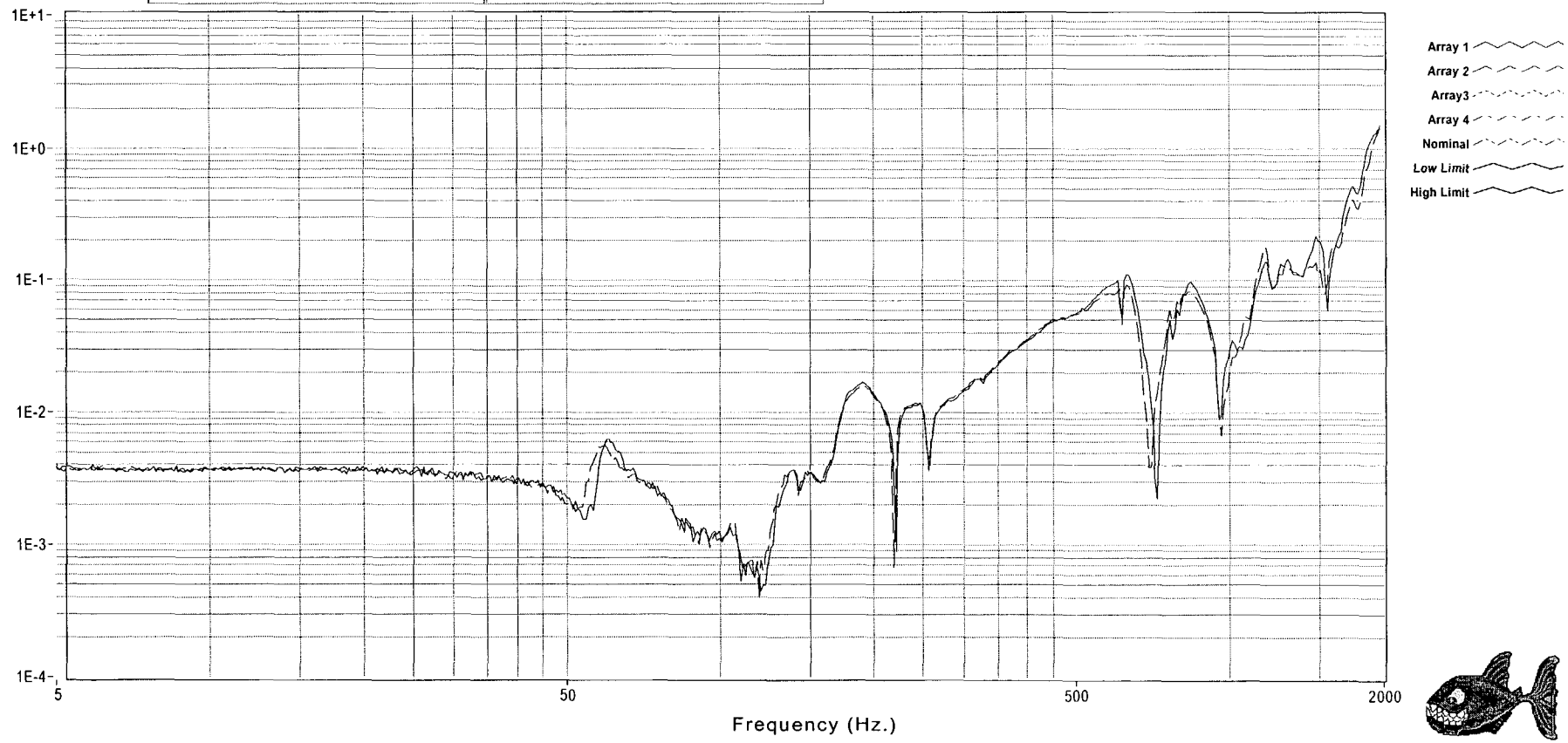
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	North_Control_Y Channel #2	North_Control_Y Channel #2
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.979E-1 at 1698.0 Hz.	Maximum = 1.784E-1 at 1681.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	North_Control_Z Channel #3	North_Control_Z Channel #3
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.403E+0 at 1971.0 Hz.	Maximum = 1.514E+0 at 1971.0 Hz.
Overall or RMS	N/A	N/A



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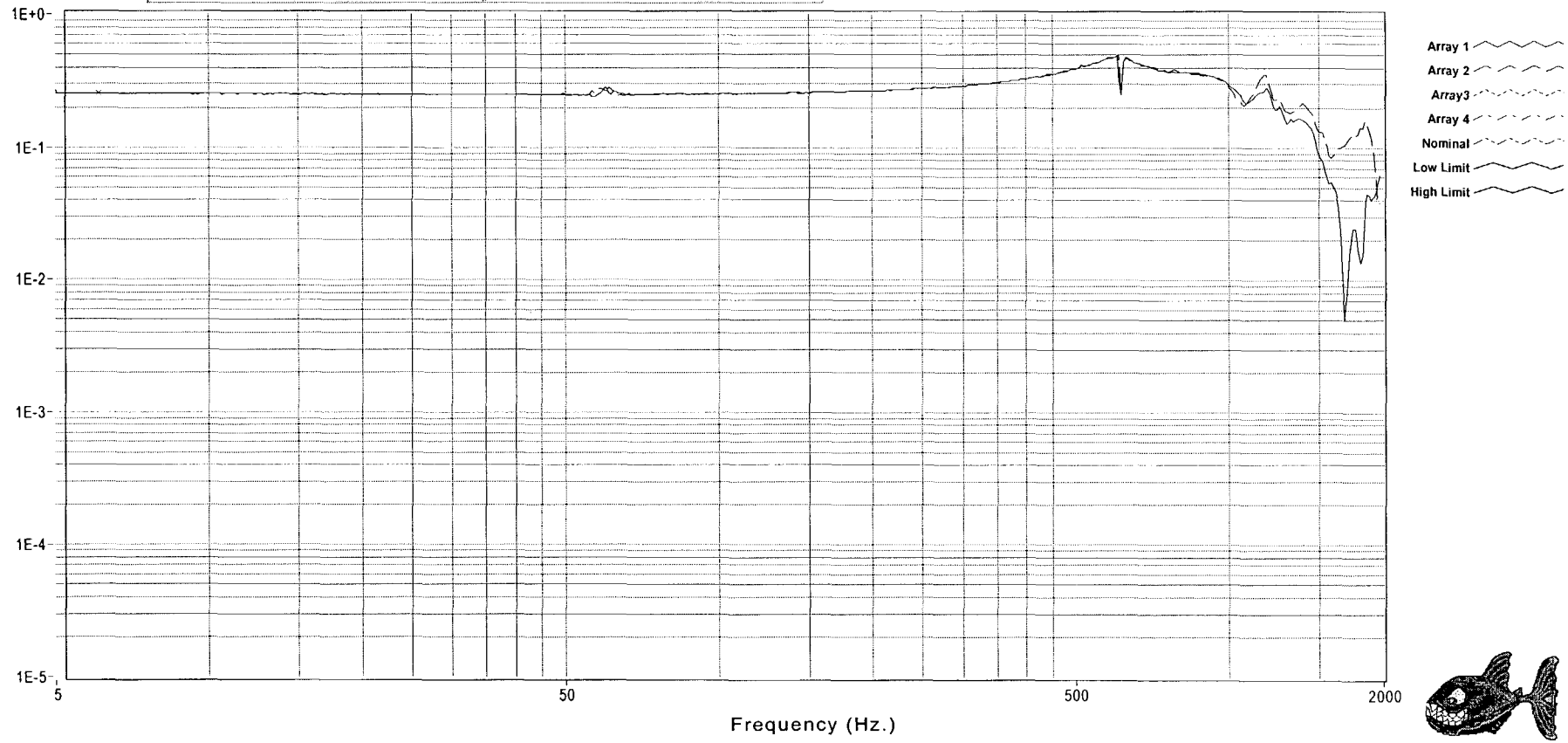
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	South_Control_X Channel #4	South_Control_X Channel #4
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	1	1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.915E-1 at 603.1 Hz.	Maximum = 4.963E-1 at 609.2 Hz.
Overall or RMS	N/A	N/A



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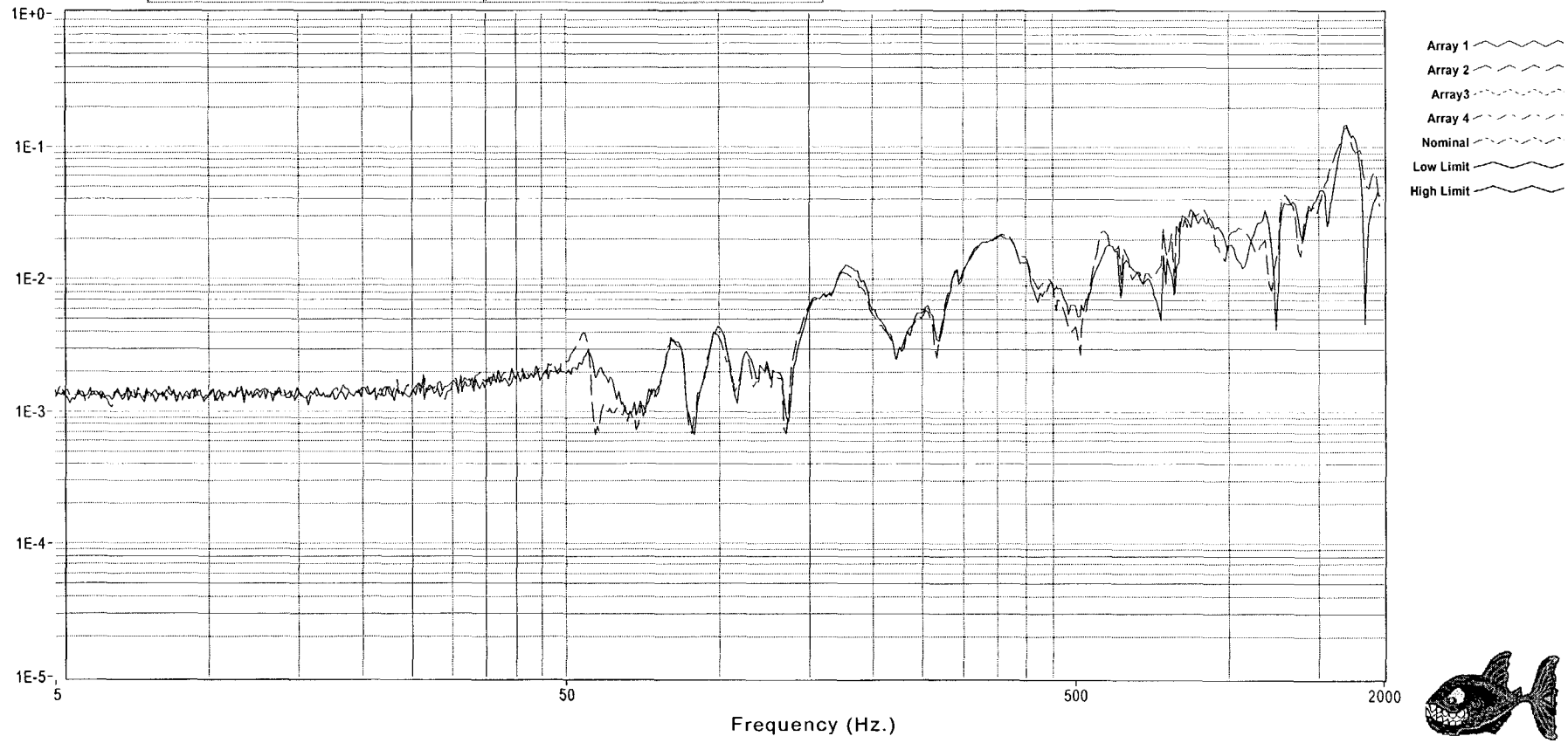
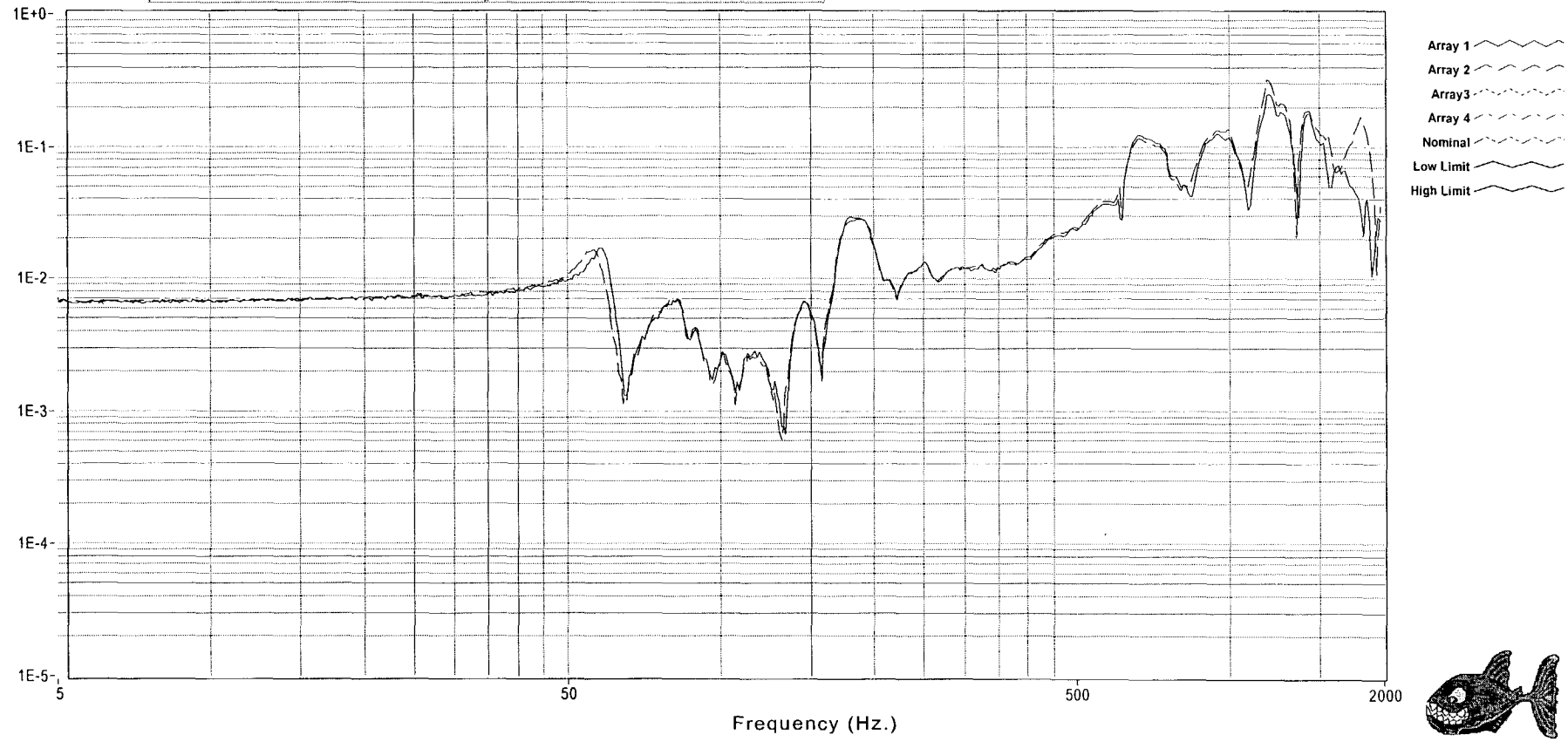
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	South_Control_Y Channel #5	South_Control_Y Channel #5
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.490E-1 at 1698.0 Hz.	Maximum = 1.414E-1 at 1698.0 Hz.
Overall or RMS	N/A	N/A



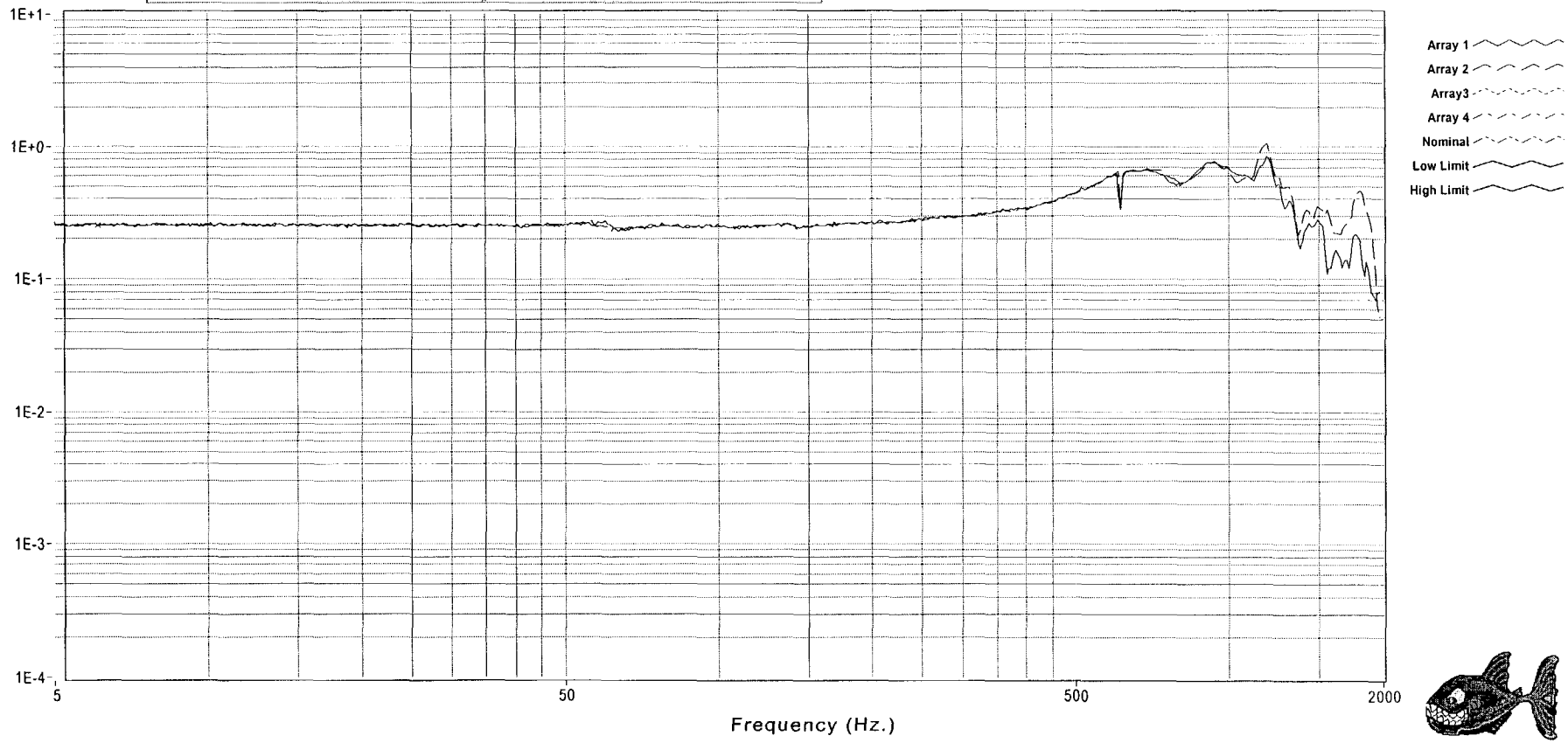
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	South_Control_Z Channel #6	South_Control_Z Channel #6
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.523E-1 at 1198.0 Hz.	Maximum = 3.208E-1 at 1186.0 Hz.
Overall or RMS	N/A	N/A



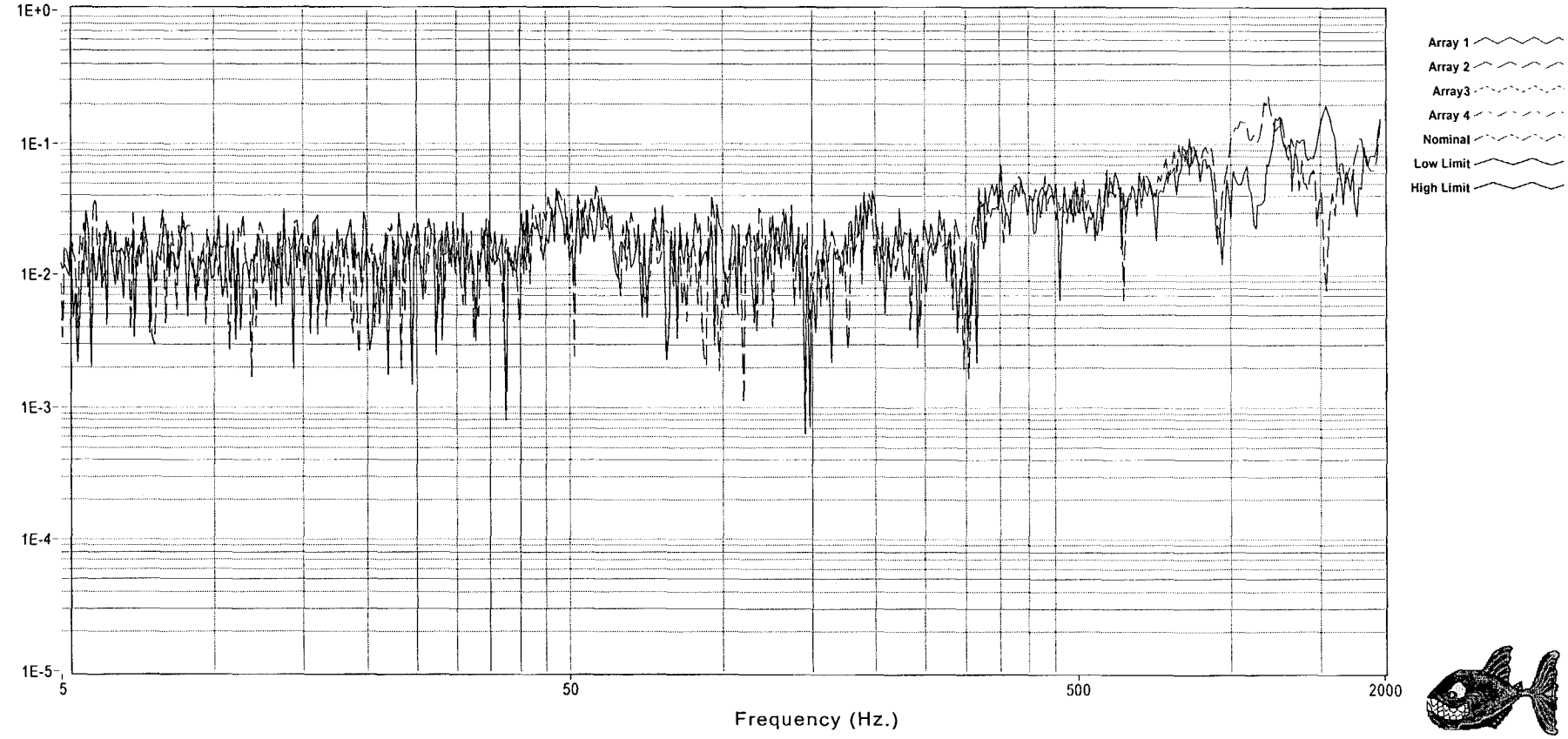
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A5 X Channel #7	A5 X Channel #7
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.327E-1 at 1186.0 Hz.	Maximum = 1.062E+0 at 1186.0 Hz.
Overall or RMS	N/A	N/A



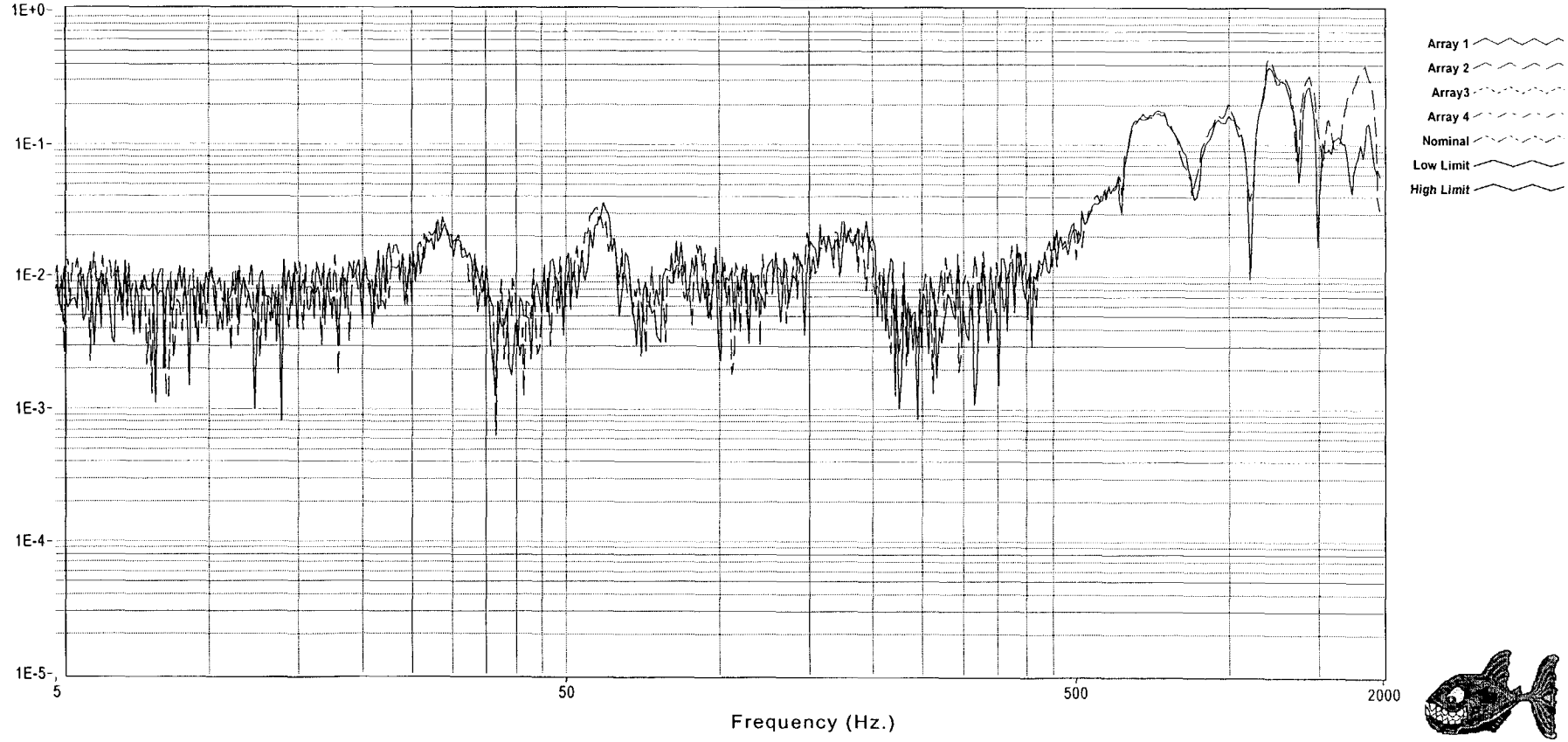
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A5 Y Channel #8	A5 Y Channel #8
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.955E-1 at 1537.0 Hz.	Maximum = 2.308E-1 at 1186.0 Hz.
Overall or RMS	N/A	N/A



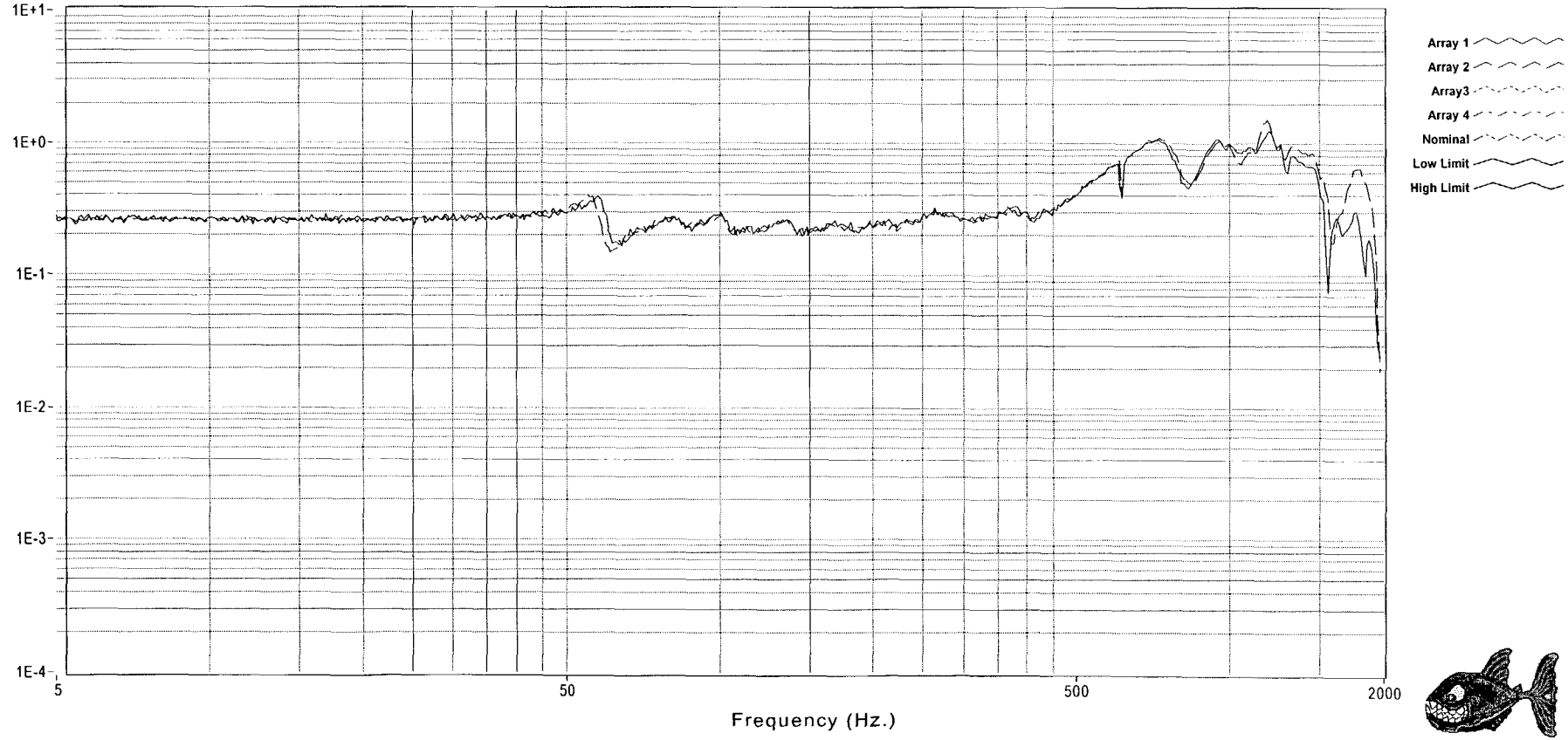
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A5 Z Channel #9	A5 Z Channel #9
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.839E-1 at 1198.0 Hz.	Maximum = 4.432E-1 at 1198.0 Hz.
Overall or RMS	N/A	N/A



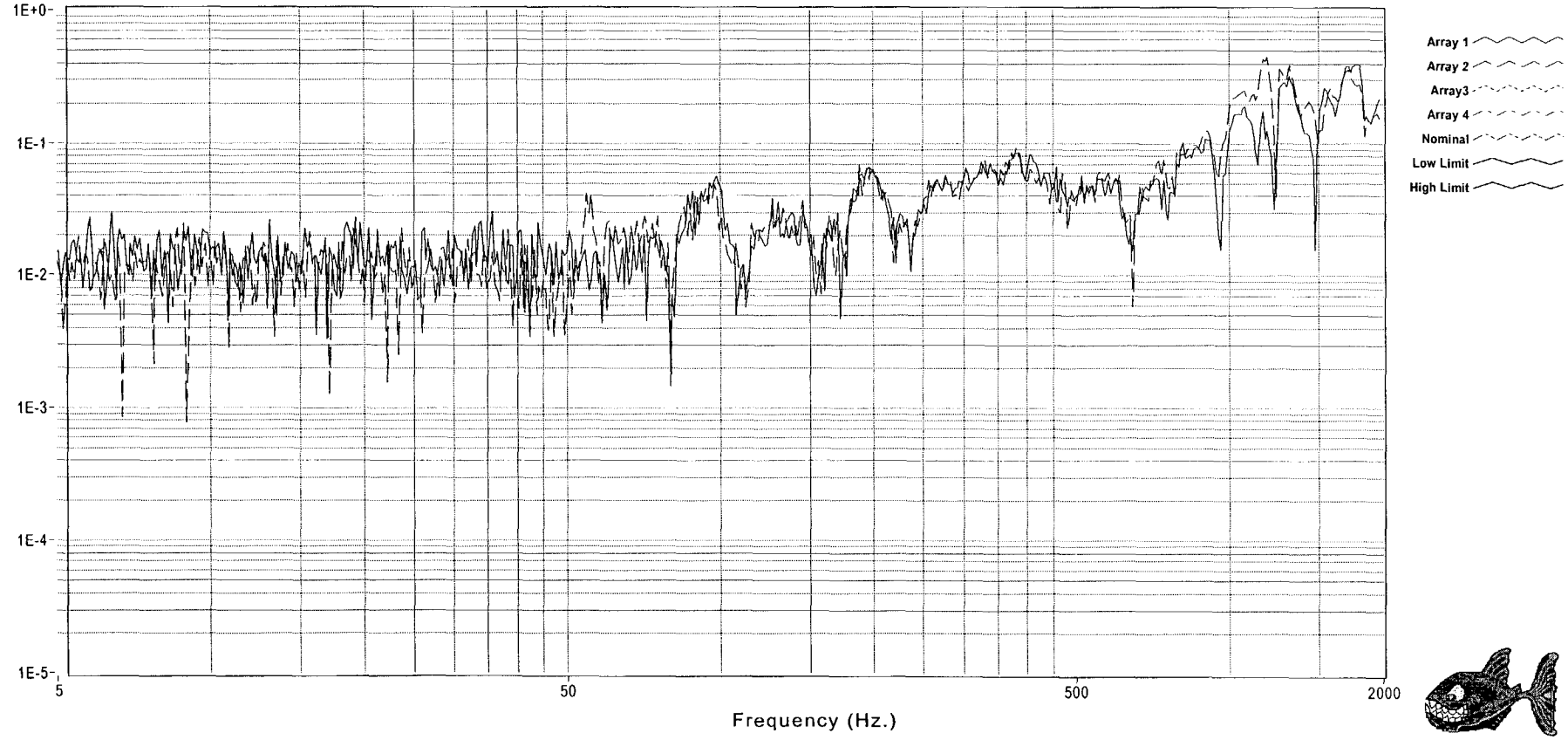
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A6 X Channel #10	A6 X Channel #10
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.238E+0 at 1198.0 Hz.	Maximum = 1.498E+0 at 1186.0 Hz.
Overall or RMS	N/A	N/A



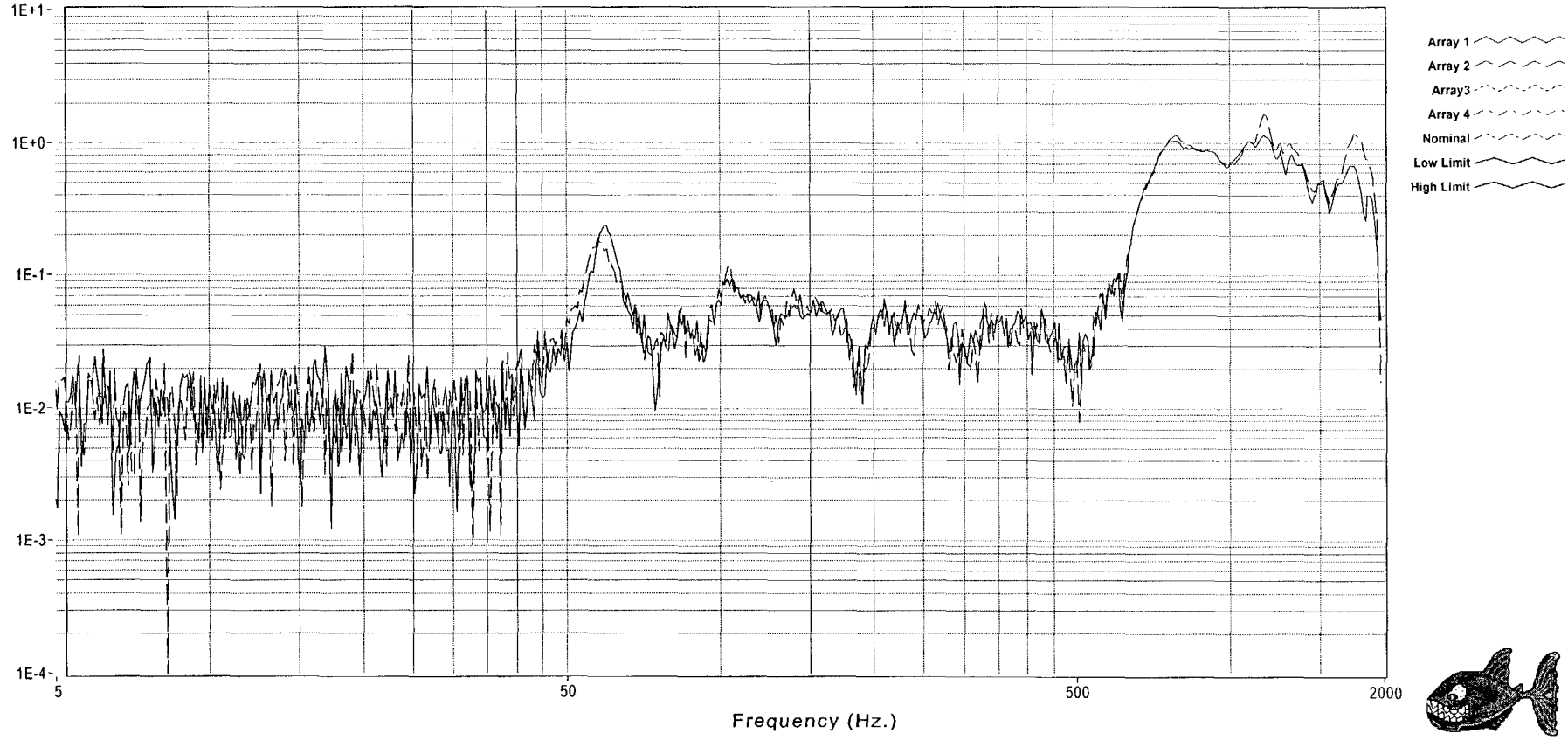
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A6 Y Channel #11	A6 Y Channel #11
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.997E-1 at 1784.0 Hz.	Maximum = 4.523E-1 at 1186.0 Hz.
Overall or RMS	N/A	N/A



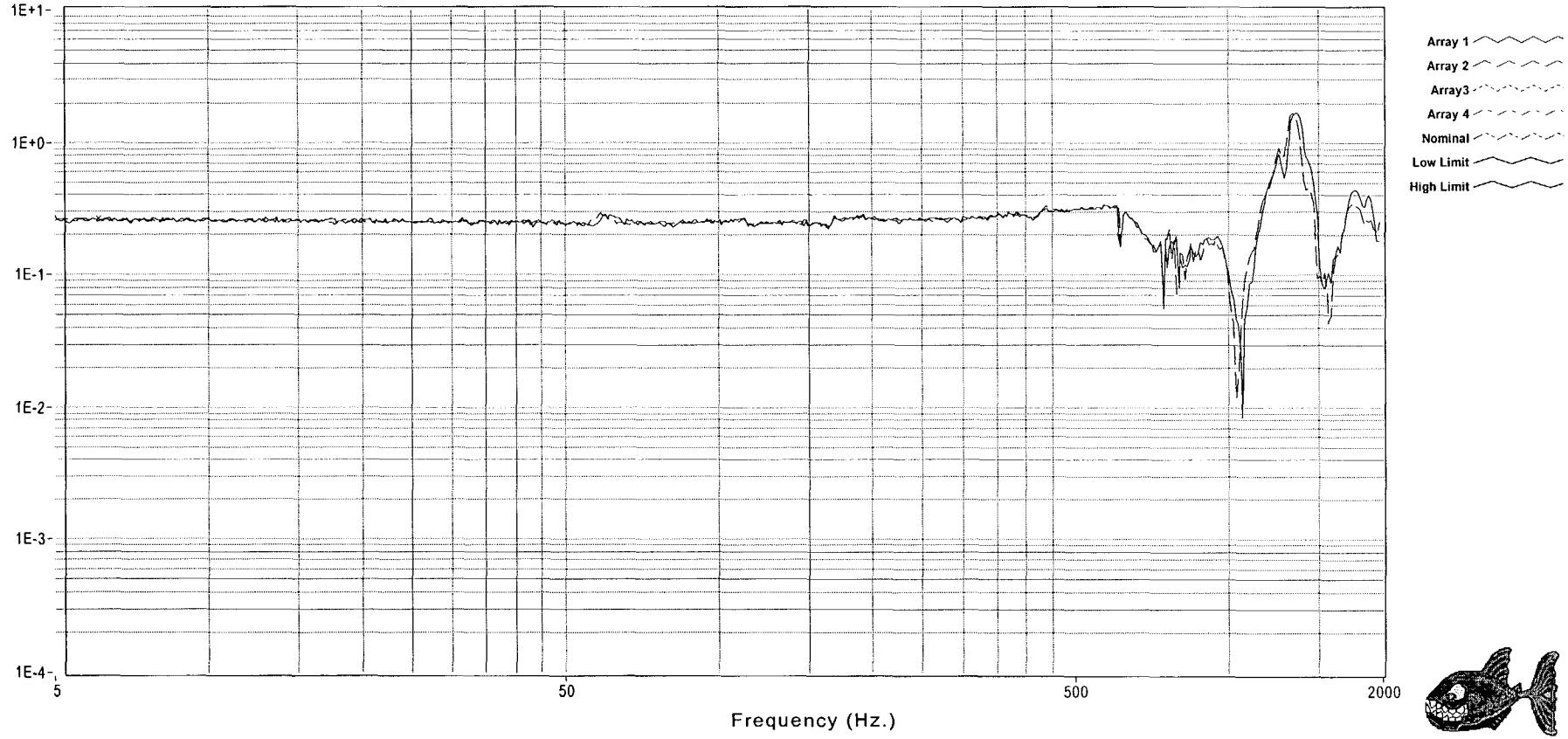
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A6 Z Channel #12	A6 Z Channel #12
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.138E+0 at 1163.0 Hz.	Maximum = 1.634E+0 at 1163.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A7 X Channel #17	A7 X Channel #17
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.684E+0 at 1350.0 Hz.	Maximum = 1.680E+0 at 1337.0 Hz.
Overall or RMS	N/A	N/A



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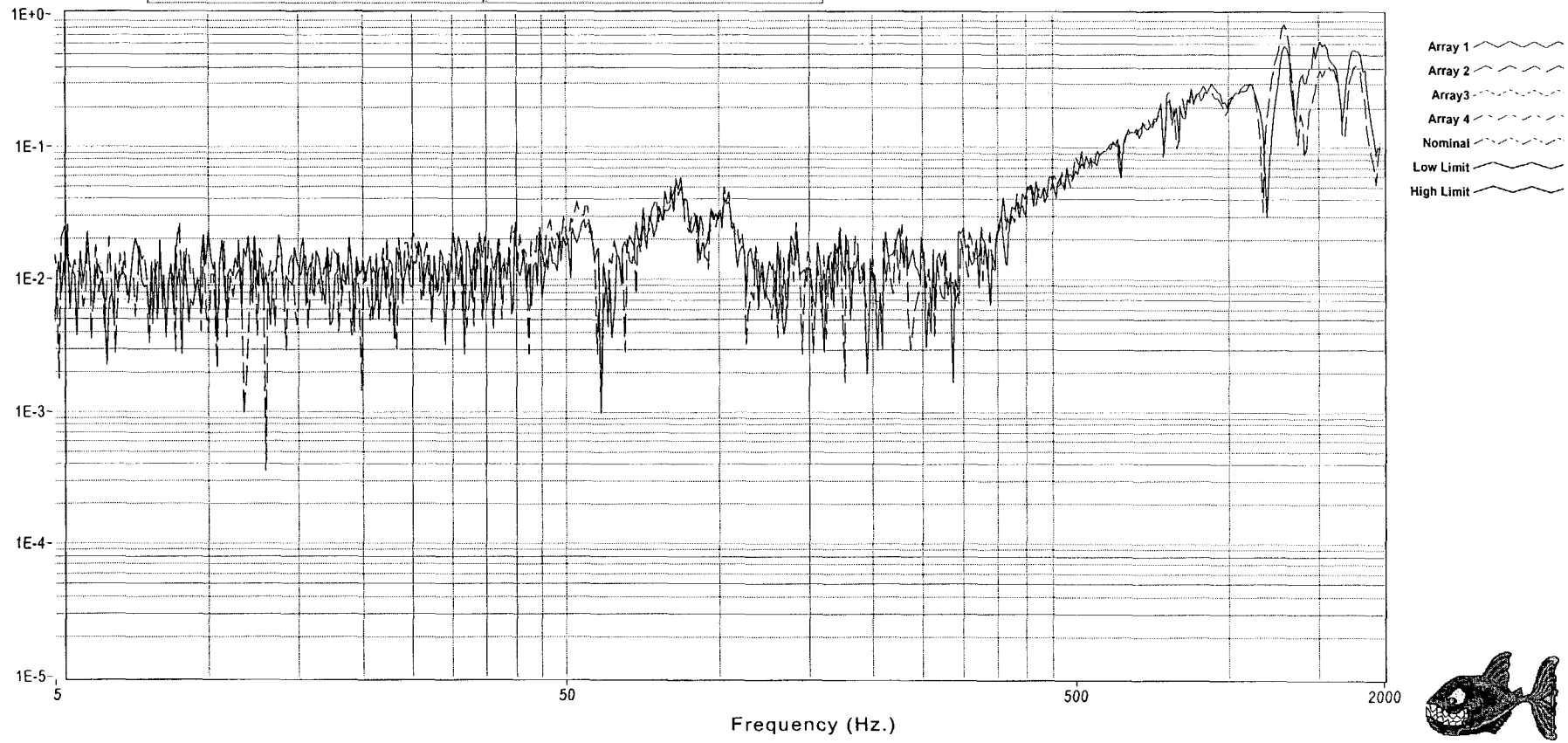
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A7 Y Channel #18	A7 Y Channel #18
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.297E-1 at 1507.0 Hz.	Maximum = 8.398E-1 at 1285.0 Hz.
Overall or RMS	N/A	N/A



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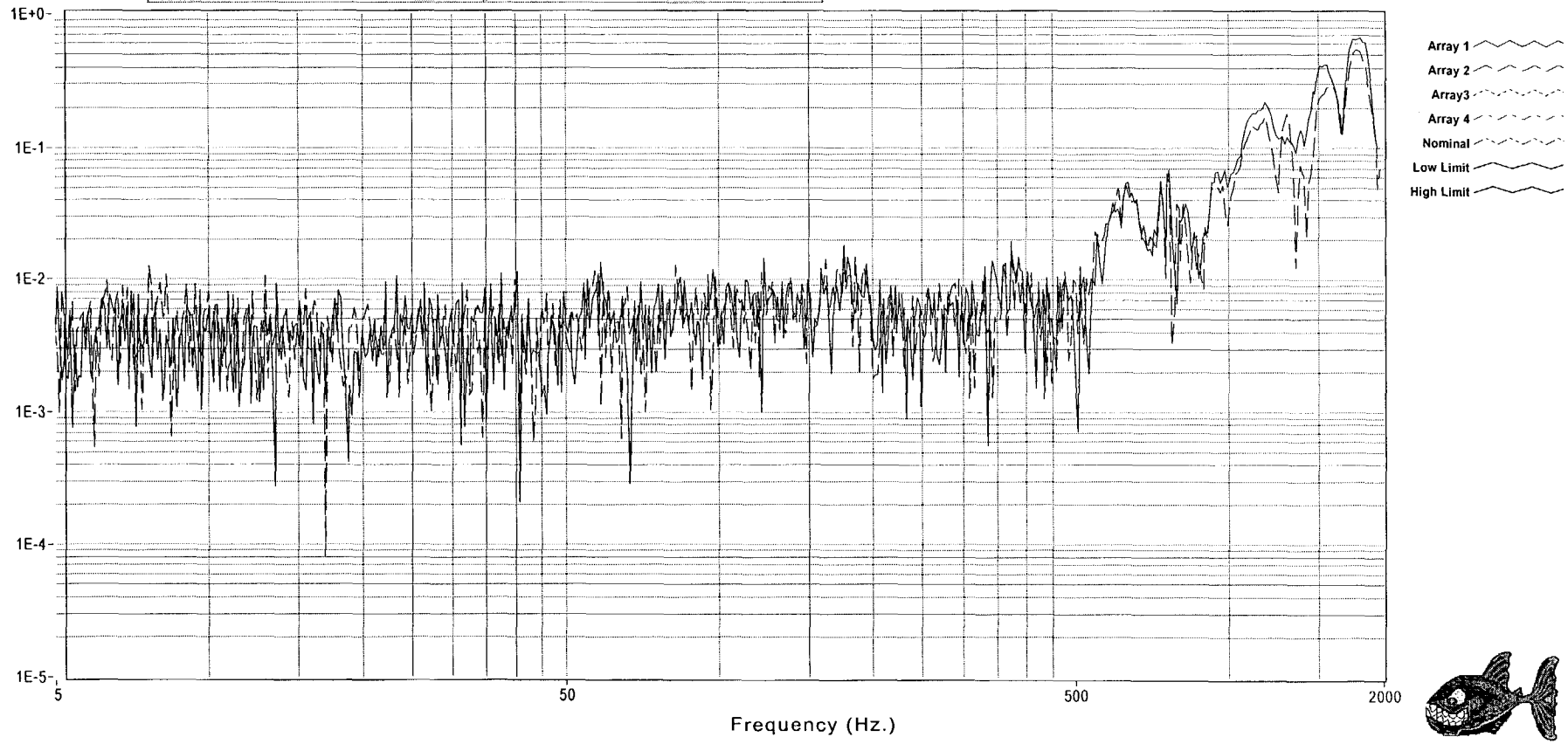
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A7 Z Channel #19	A7 Z Channel #19
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.652E-1 at 1802.0 Hz.	Maximum = 5.442E-1 at 1784.0 Hz.
Overall or RMS	N/A	N/A



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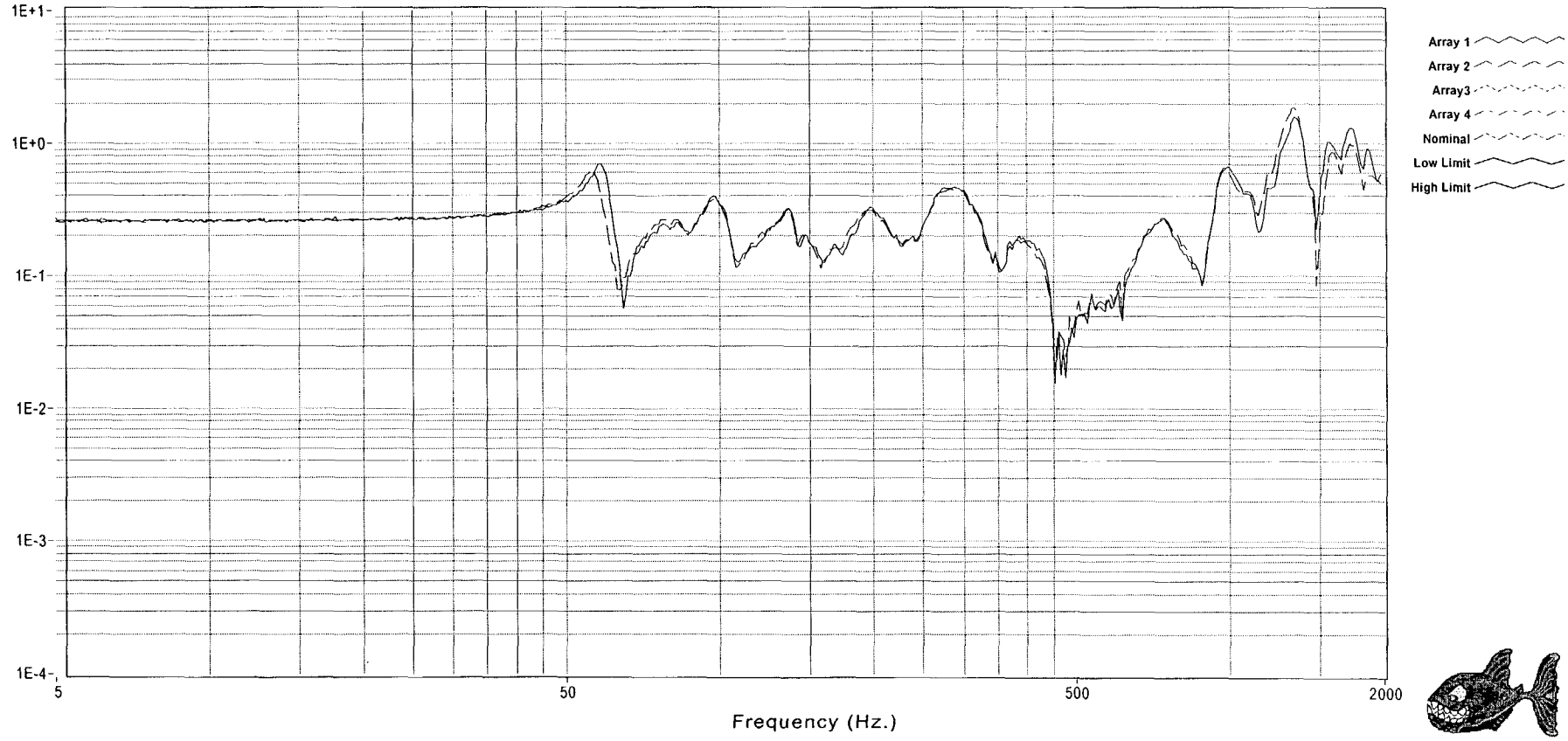
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A8 X Channel #20	A8 X Channel #20
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.566E+0 at 1337.0 Hz.	Maximum = 1.881E+0 at 1337.0 Hz.
Overall or RMS	N/A	N/A



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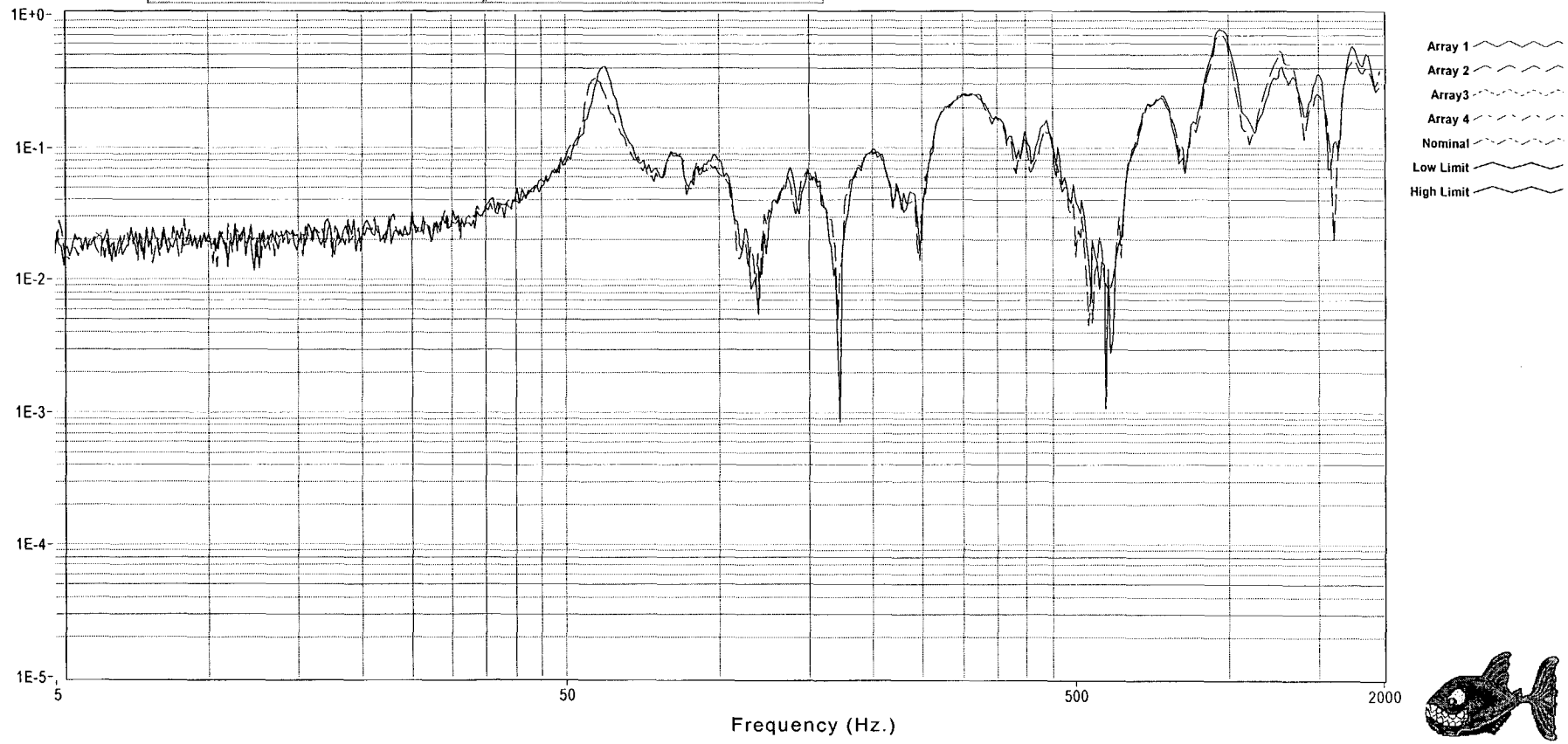
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A8 Y Channel #21	A8 Y Channel #21
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	0.01034	0.01034
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.748E-1 at 962.7 Hz.	Maximum = 7.019E-1 at 953.2 Hz.
Overall or RMS	N/A	N/A



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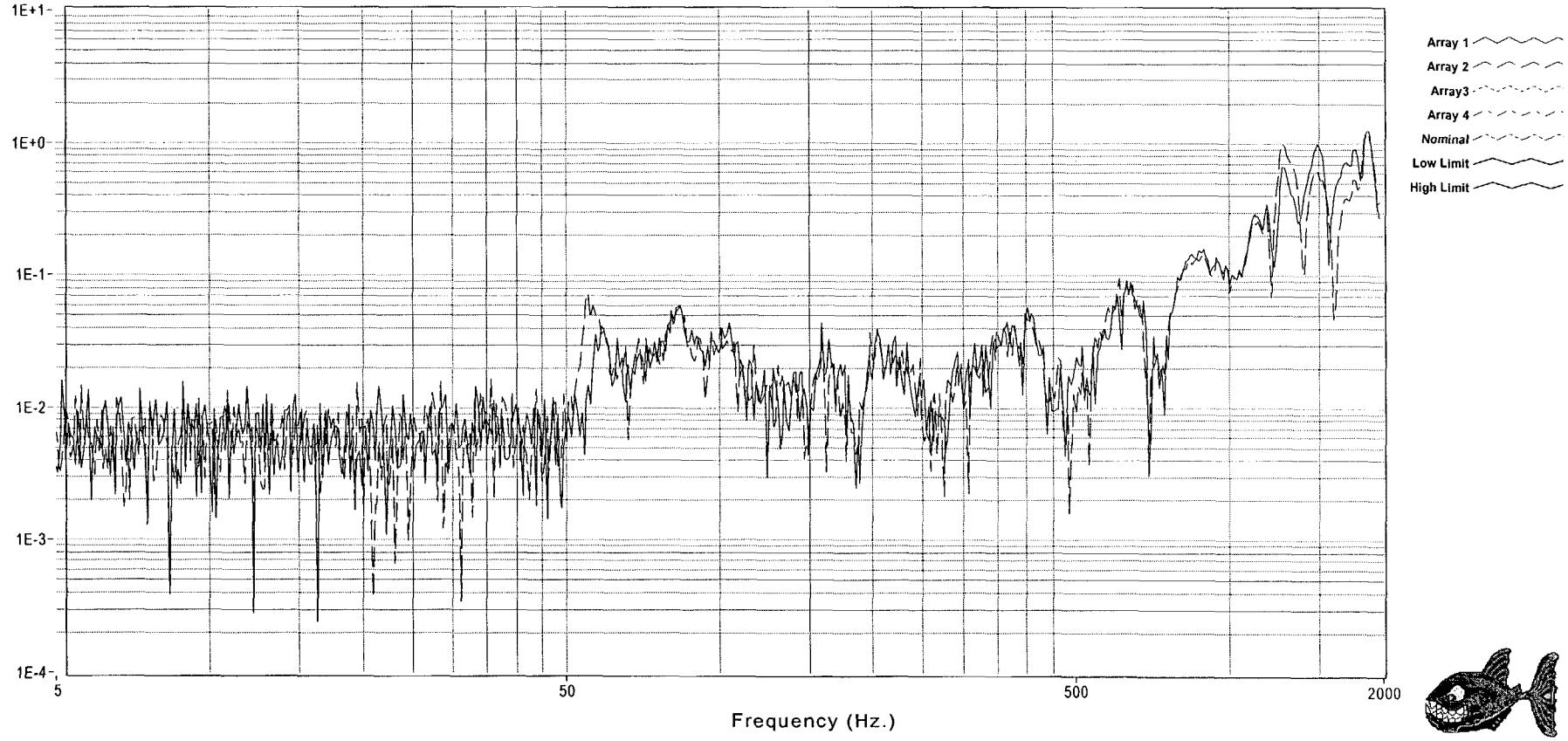
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A8 Z Channel #22	A8 Z Channel #22
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	0.01029	0.01029
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.254E+0 at 1875.0 Hz.	Maximum = 1.223E+0 at 1857.0 Hz.
Overall or RMS	N/A	N/A



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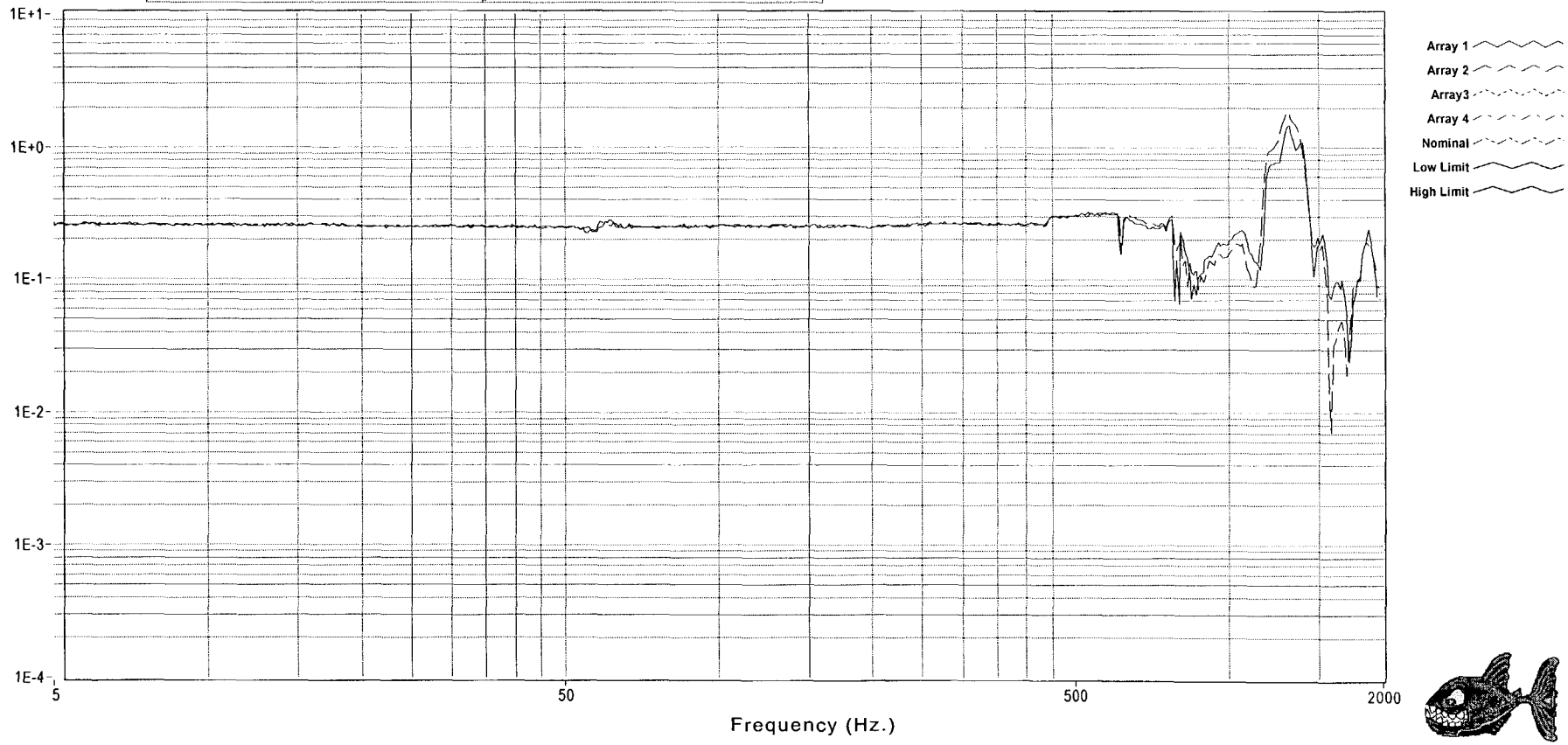
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A9 X Channel #23	A9 X Channel #23
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.493E+0 at 1311.0 Hz.	Maximum = 1.845E+0 at 1298.0 Hz.
Overall or RMS	N/A	N/A



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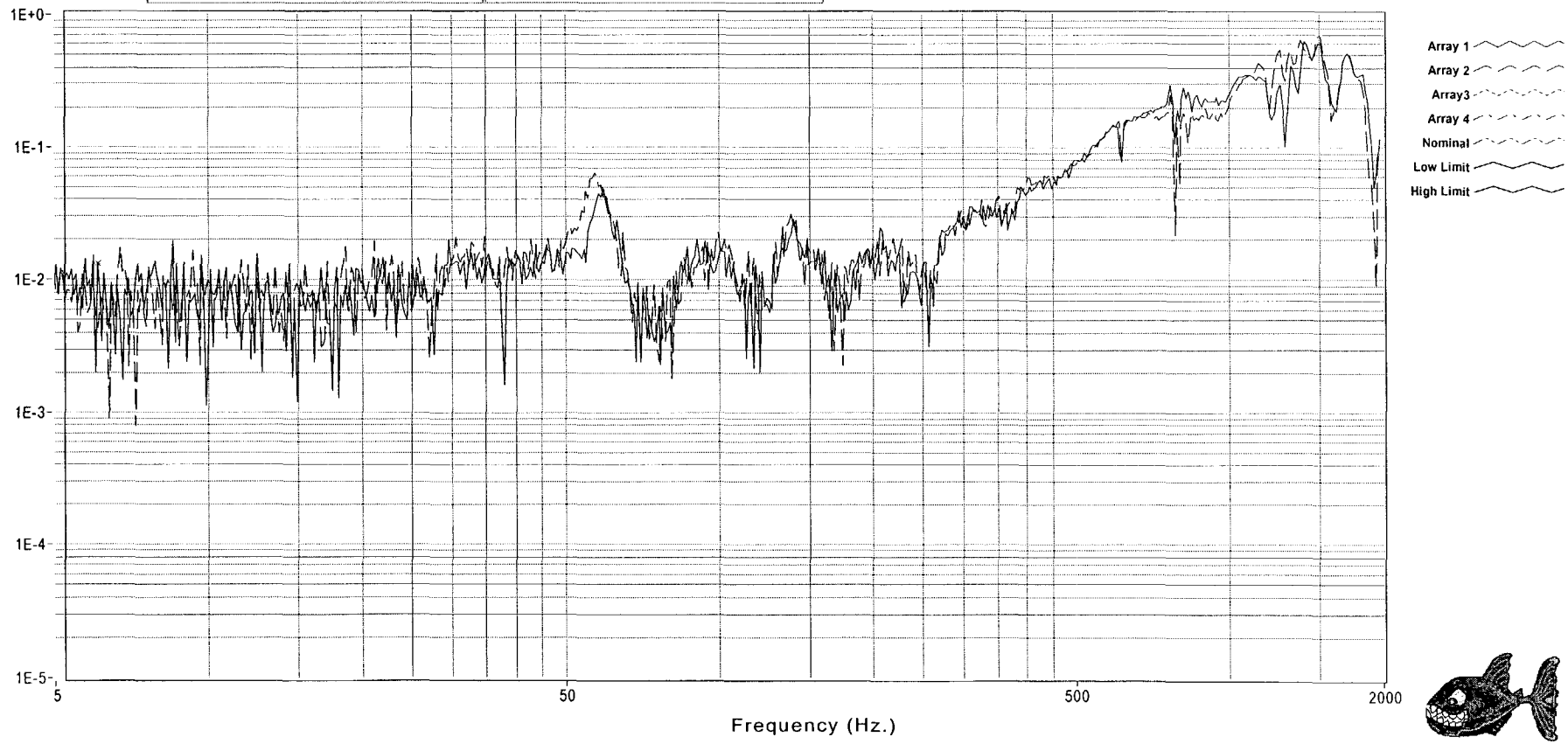
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A9 Y Channel #24	A9 Y Channel #24
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.314E-1 at 1405.0 Hz.	Maximum = 6.907E-1 at 1492.0 Hz.
Overall or RMS	N/A	N/A



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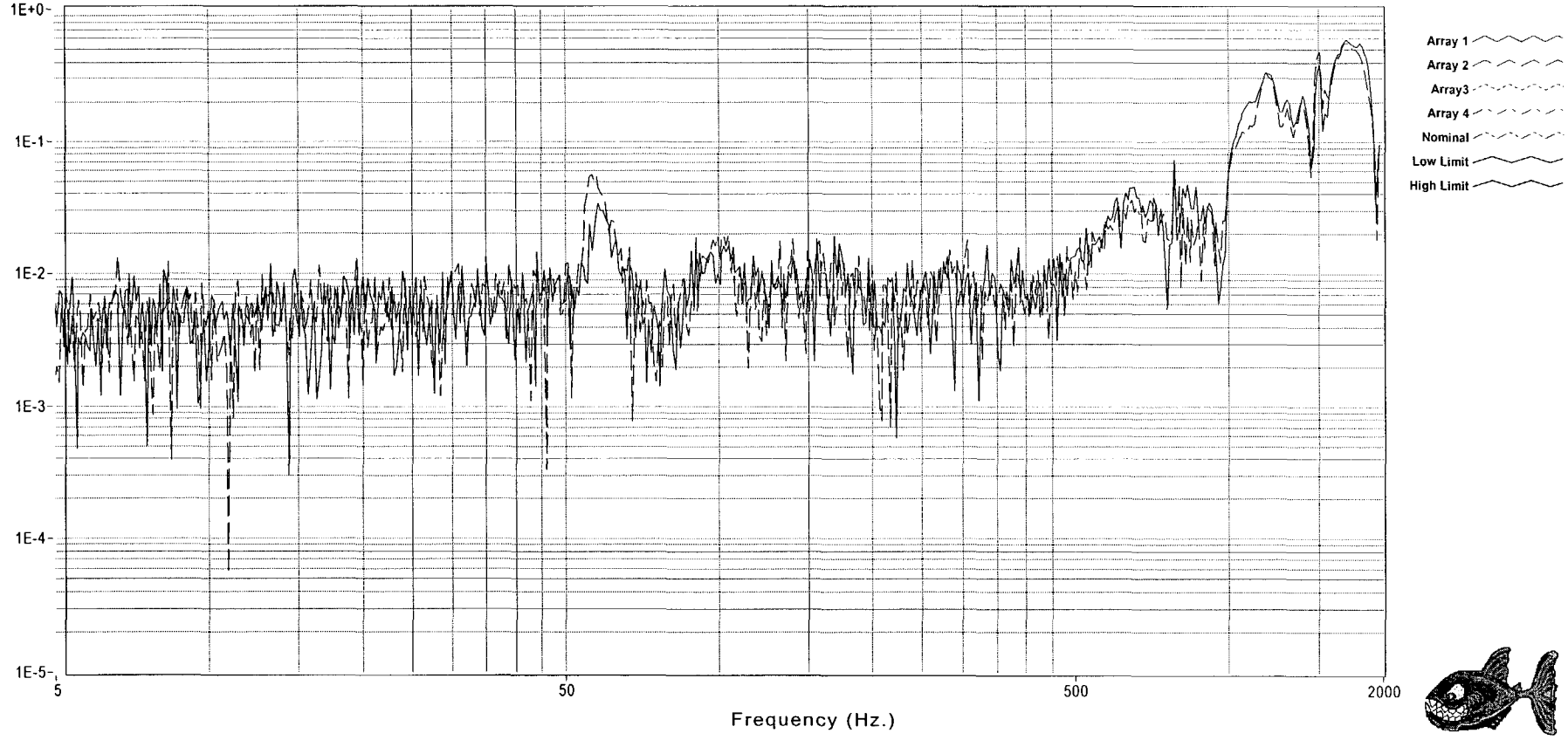
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A9 Z Channel #25	A9 Z Channel #25
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.975E-1 at 1698.0 Hz.	Maximum = 5.556E-1 at 1698.0 Hz.
Overall or RMS	N/A	N/A



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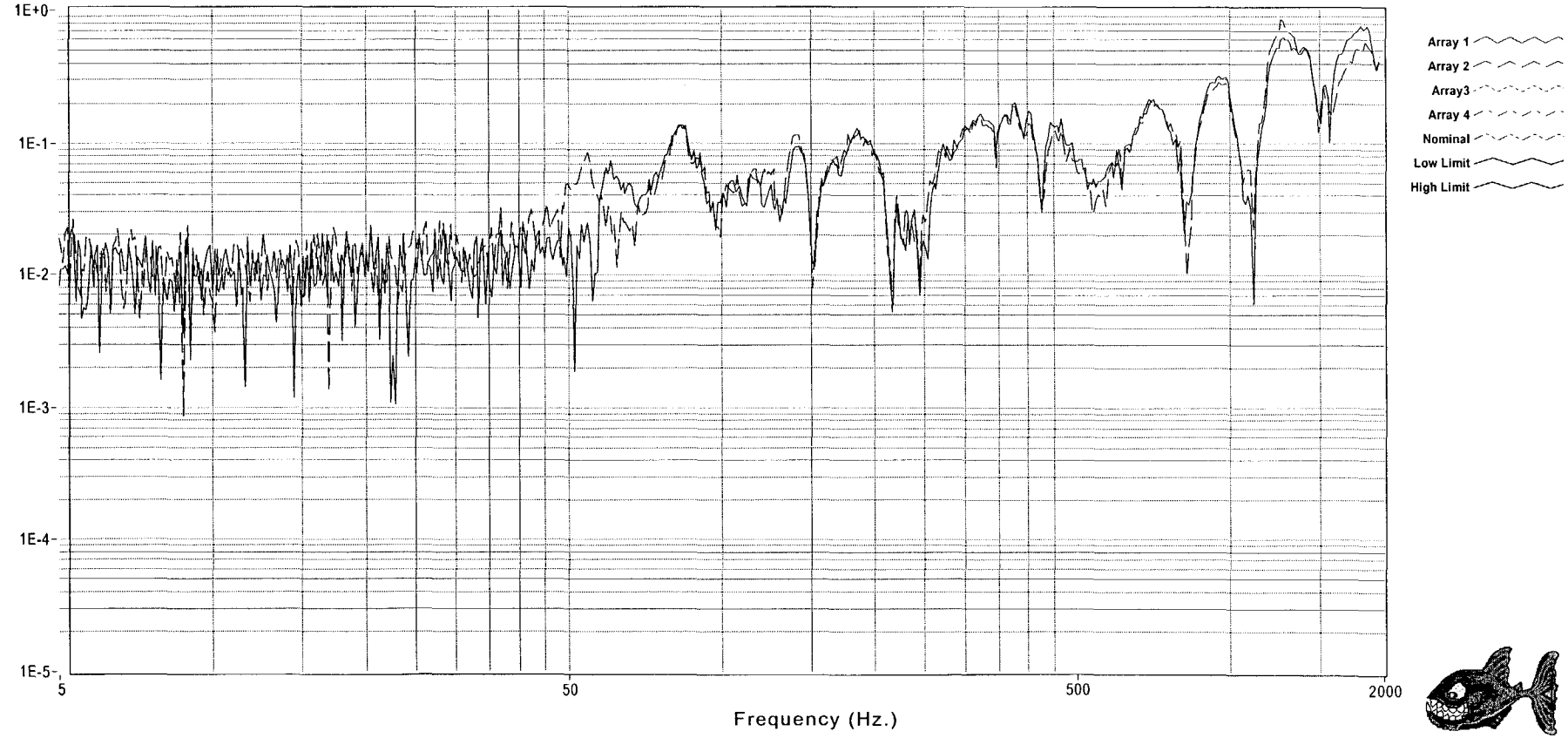
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A10 X Channel #26	A10 X Channel #26
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.606E-1 at 1857.0 Hz.	Maximum = 8.619E-1 at 1259.0 Hz.
Overall or RMS	N/A	N/A



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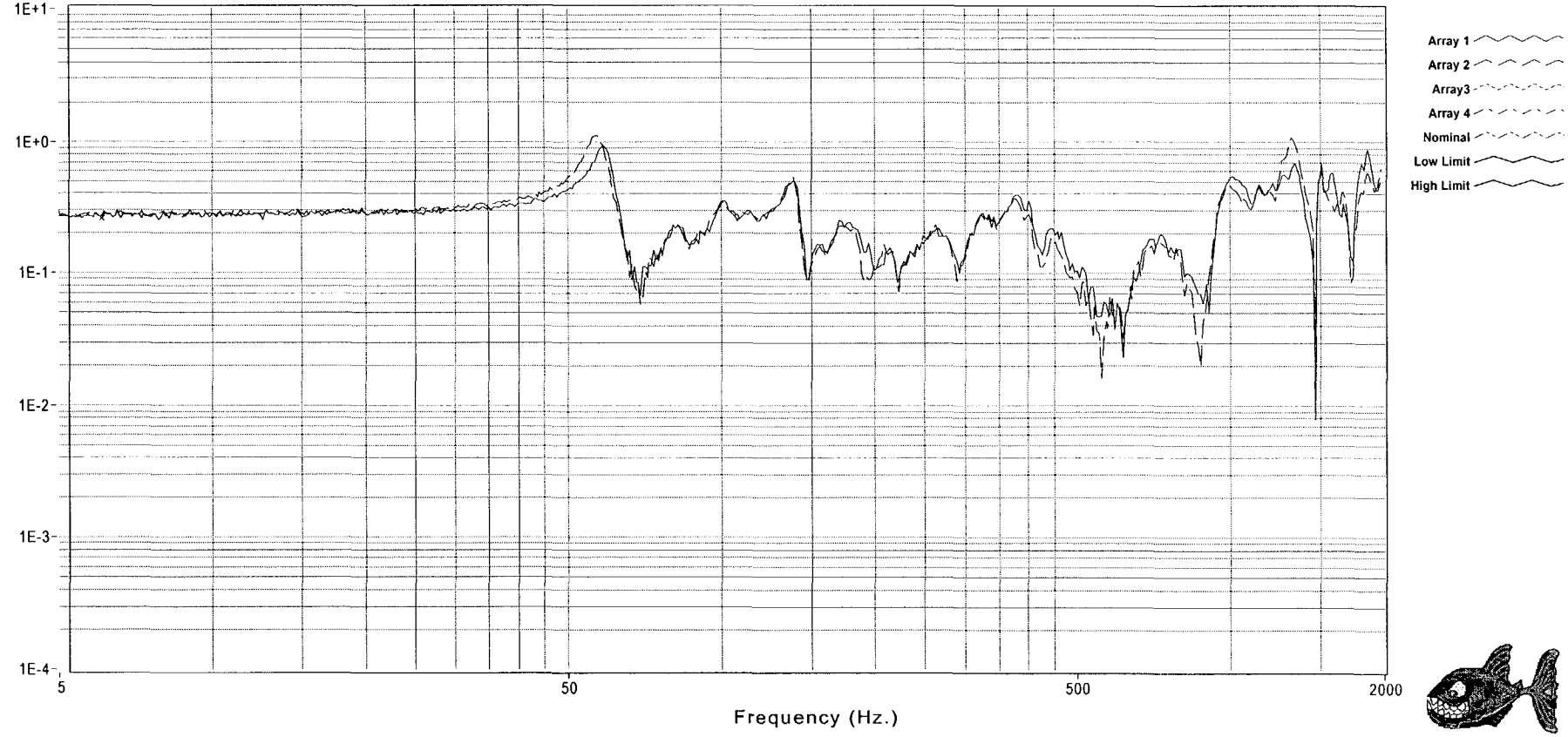
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A10 Y Channel #27	A10 Y Channel #27
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.288E-1 at 58.8 Hz.	Maximum = 1.098E+0 at 56.5 Hz.
Overall or RMS	N/A	N/A



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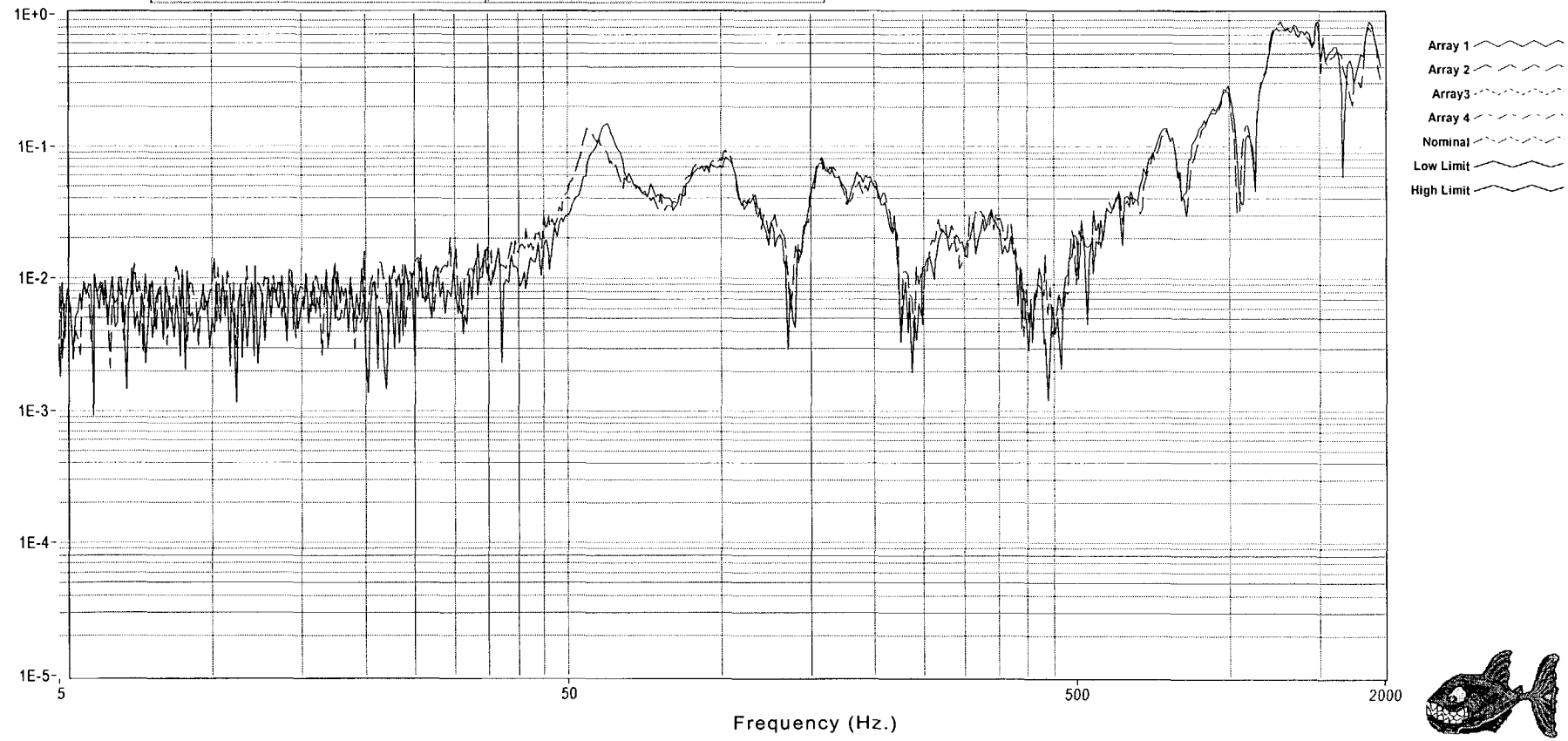
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A10 Z Channel #28	A10 Z Channel #28
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.765E-1 at 1875.0 Hz.	Maximum = 8.769E-1 at 1259.0 Hz.
Overall or RMS	N/A	N/A



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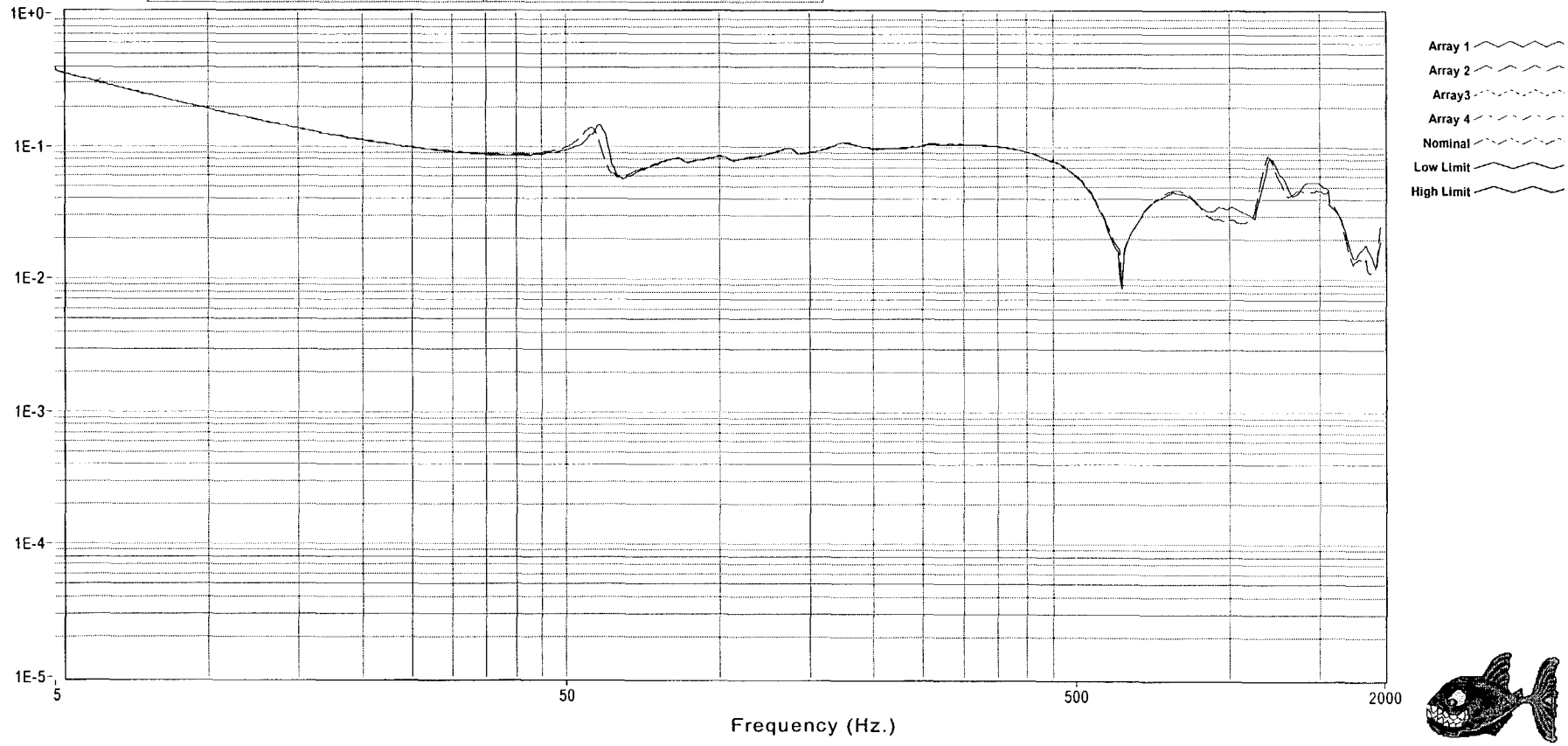
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	DRIVE Channel #31	DRIVE Channel #31
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.260E-1 at 4.9 Hz.	Maximum = 4.155E-1 at 5.0 Hz.
Overall or RMS	N/A	N/A



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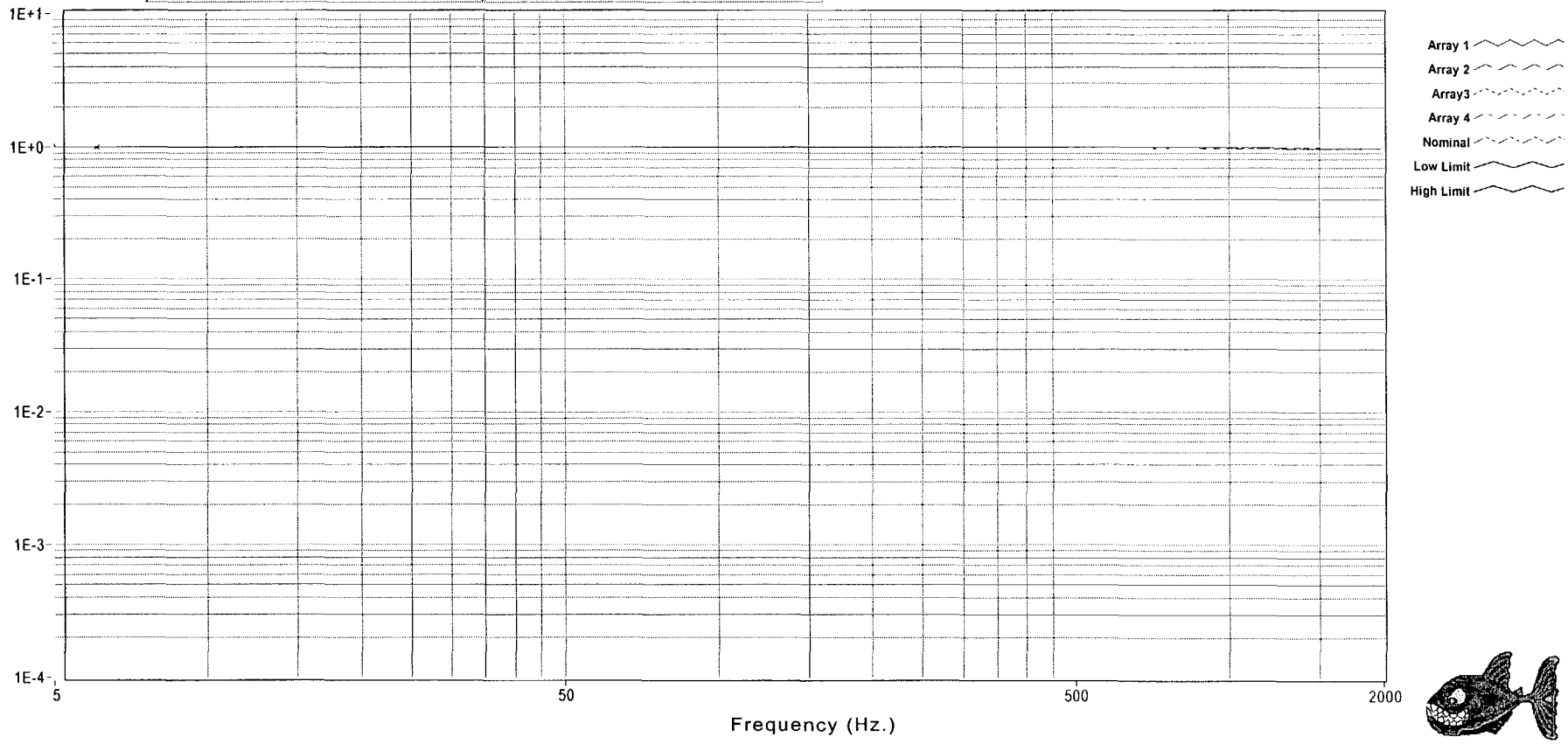
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	COLA Channel #32	COLA Channel #32
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.100E+0 at 4.9 Hz.	Maximum = 1.094E+0 at 5.0 Hz.
Overall or RMS	N/A	N/A



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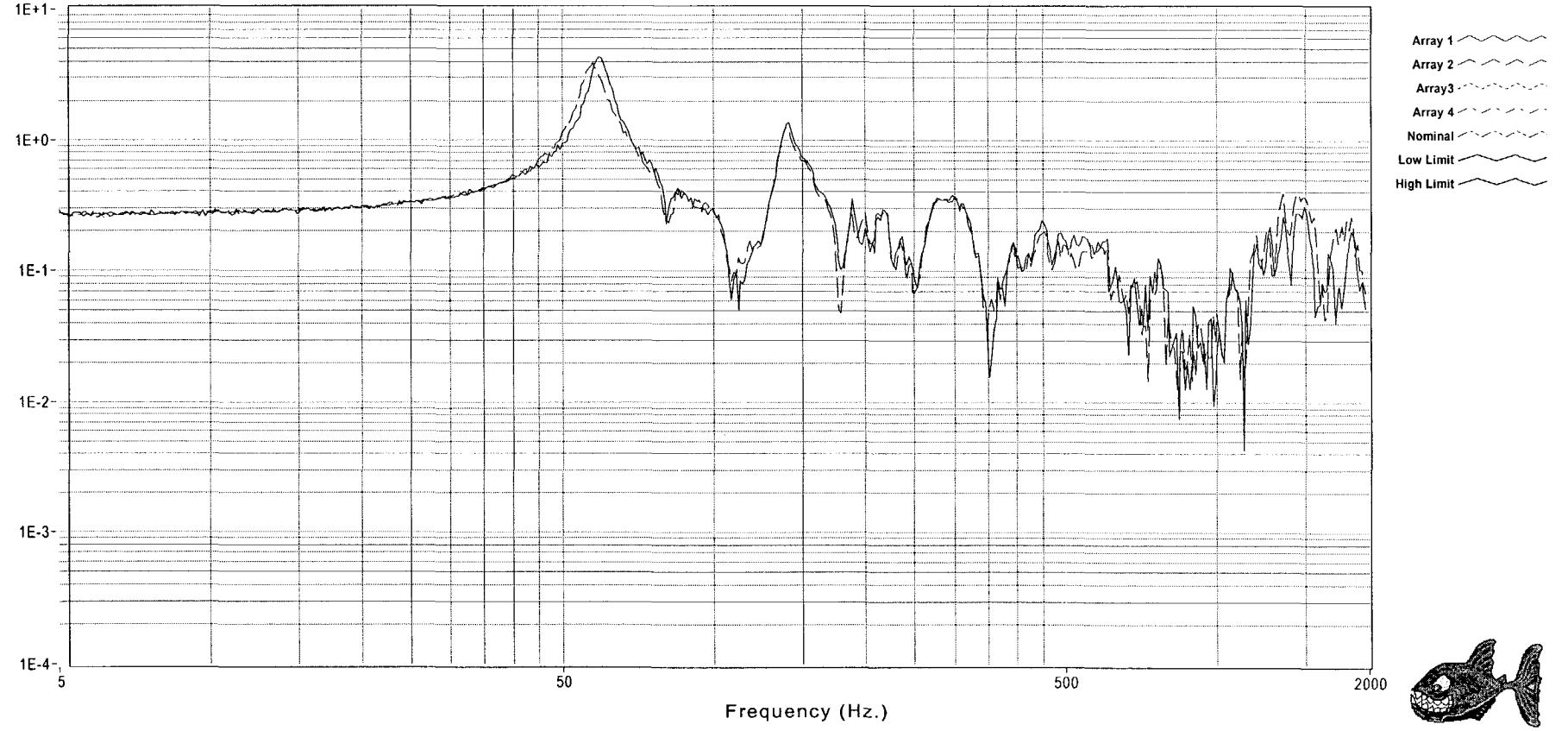
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A1X: +Y PANEL UPPER Channel #33	A1X: +Y PANEL UPPER Channel #33
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 1 SN=AE71-1	BOX 3 CH 1 SN=AE71-1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.271E+0 at 59.4 Hz.	Maximum = 3.850E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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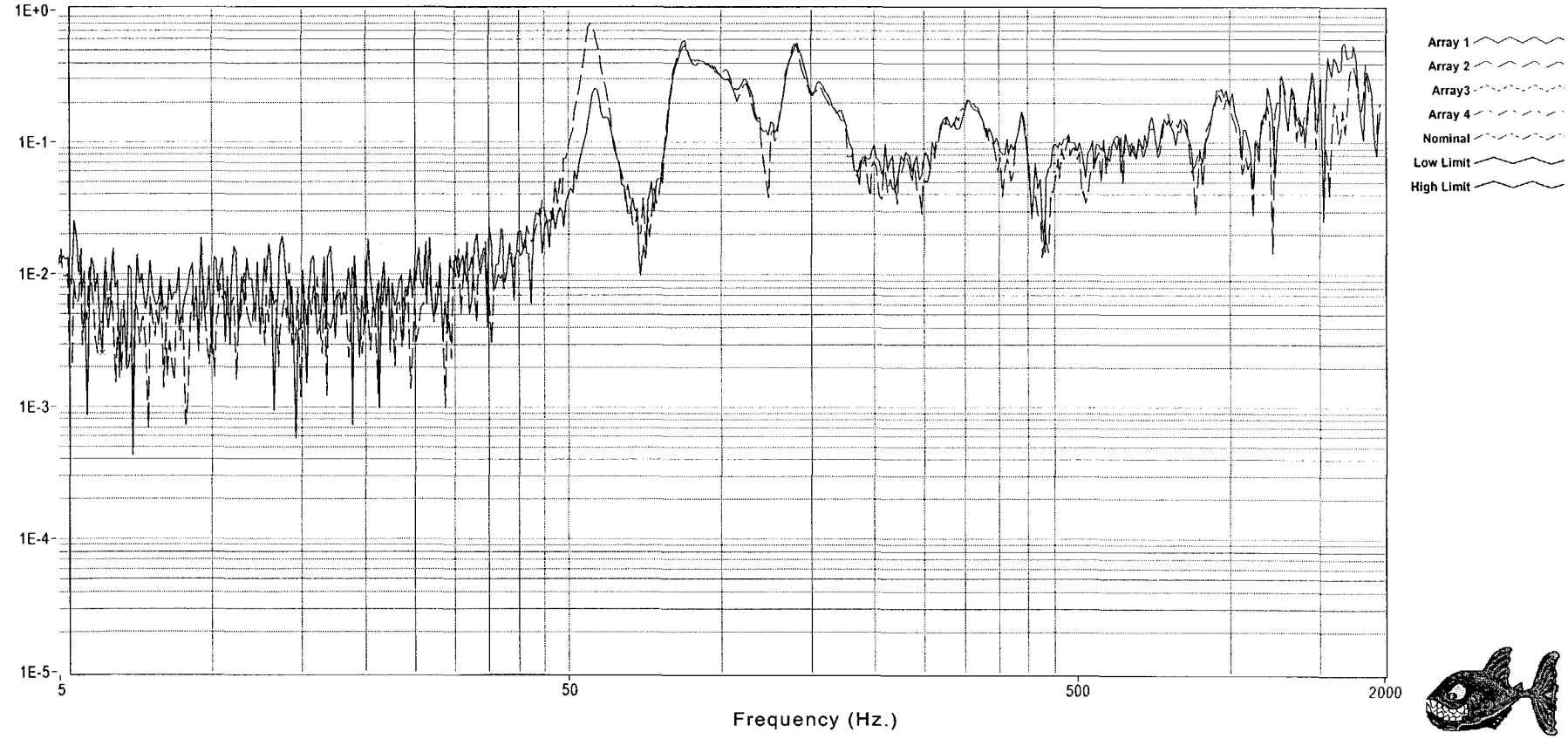
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A1Y: +Y PANEL UPPER Channel #34	A1Y: +Y PANEL UPPER Channel #34
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 2 SN=AC40	BOX 3 CH 2 SN=AC40
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.693E-1 at 1681.0 Hz.	Maximum = 8.002E-1 at 55.4 Hz.
Overall or RMS	N/A	N/A



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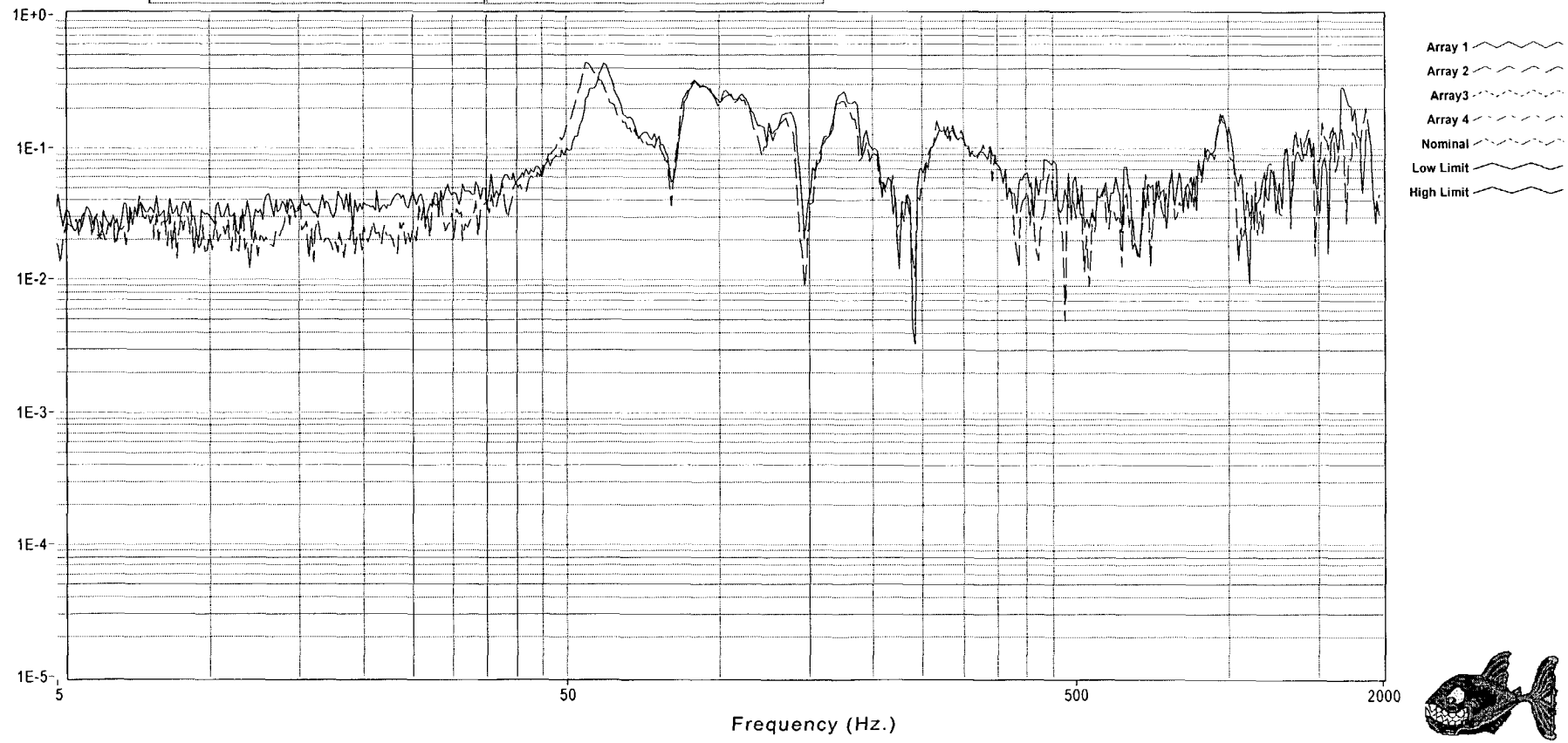
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A1Z: +Y PANEL UPPER Channel #35	A1Z: +Y PANEL UPPER Channel #35
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 3 SN=AD72	BOX 3 CH 3 SN=AD72
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.318E-1 at 59.4 Hz.	Maximum = 4.385E-1 at 54.8 Hz.
Overall or RMS	N/A	N/A



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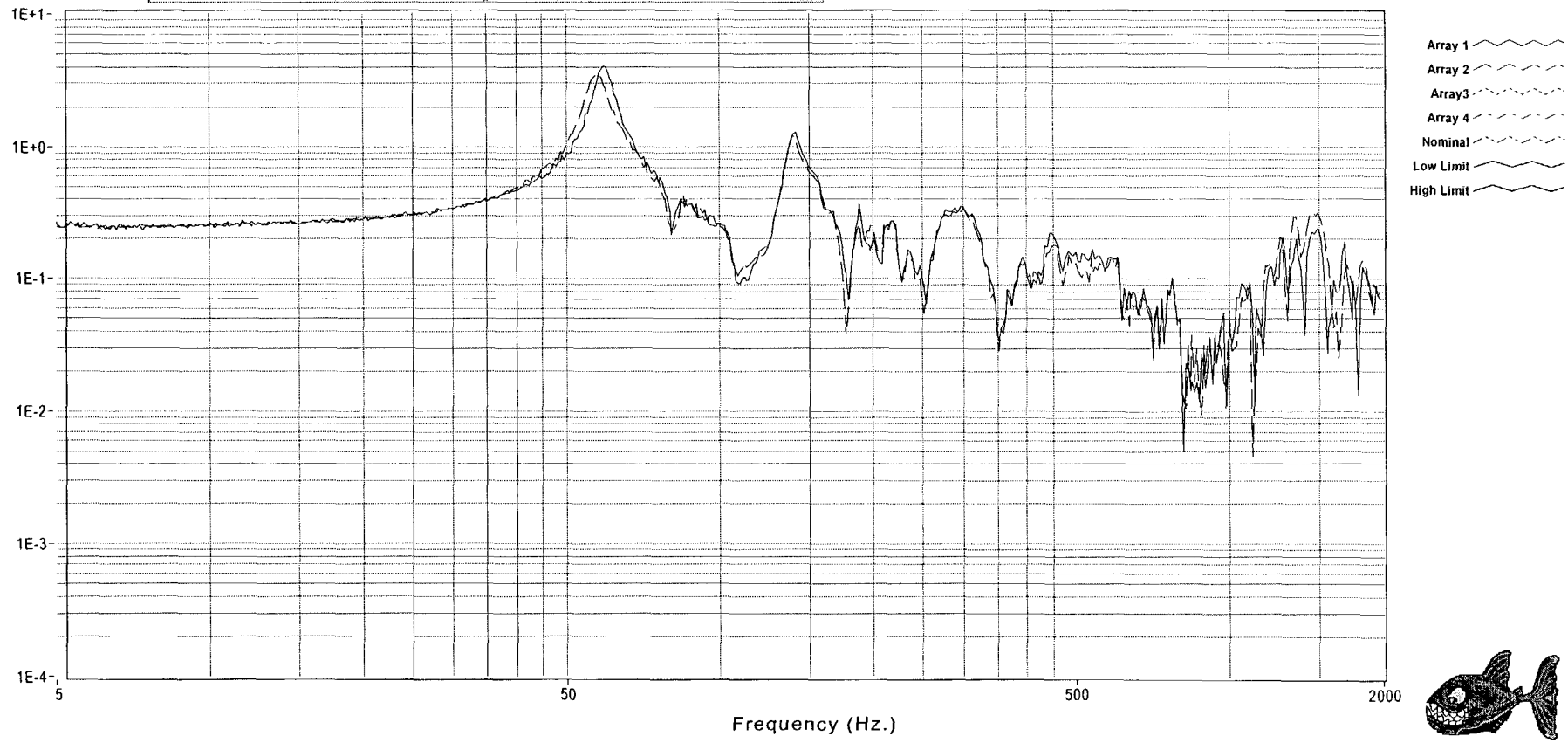
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A1RX: +Y PANEL UPPERChannel #36	A1RX: +Y PANEL UPPERChannel #36
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 4 SN=AF35	BOX 3 CH 4 SN=AF35
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.038E+0 at 59.4 Hz.	Maximum = 3.641E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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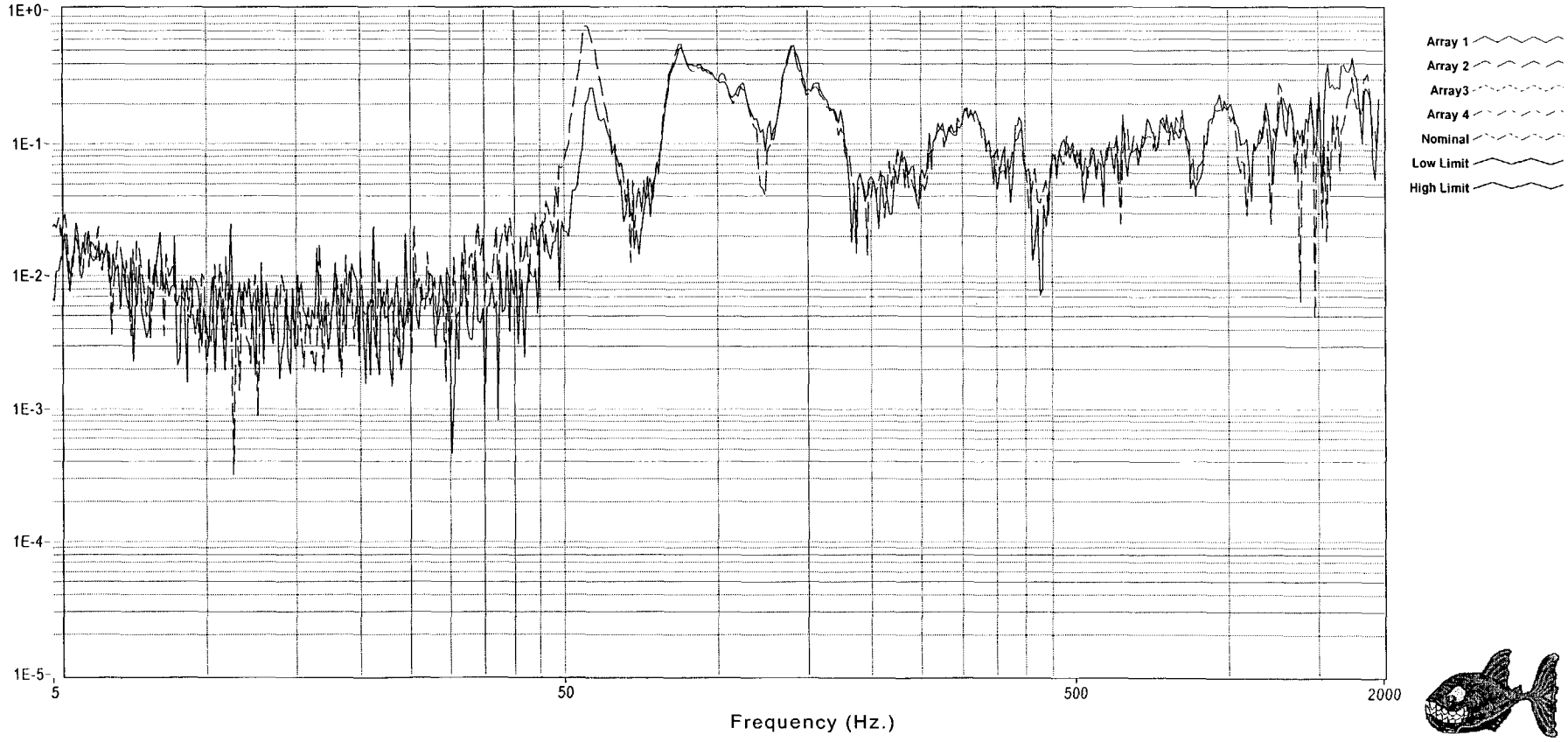
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A1RY: +Y PANEL UPPERChannel #37	A1RY: +Y PANEL UPPERChannel #37
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 5 SN=AB88	BOX 3 CH 5 SN=AB88
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.435E-1 at 141.1 Hz.	Maximum = 7.632E-1 at 55.4 Hz.
Overall or RMS	N/A	N/A



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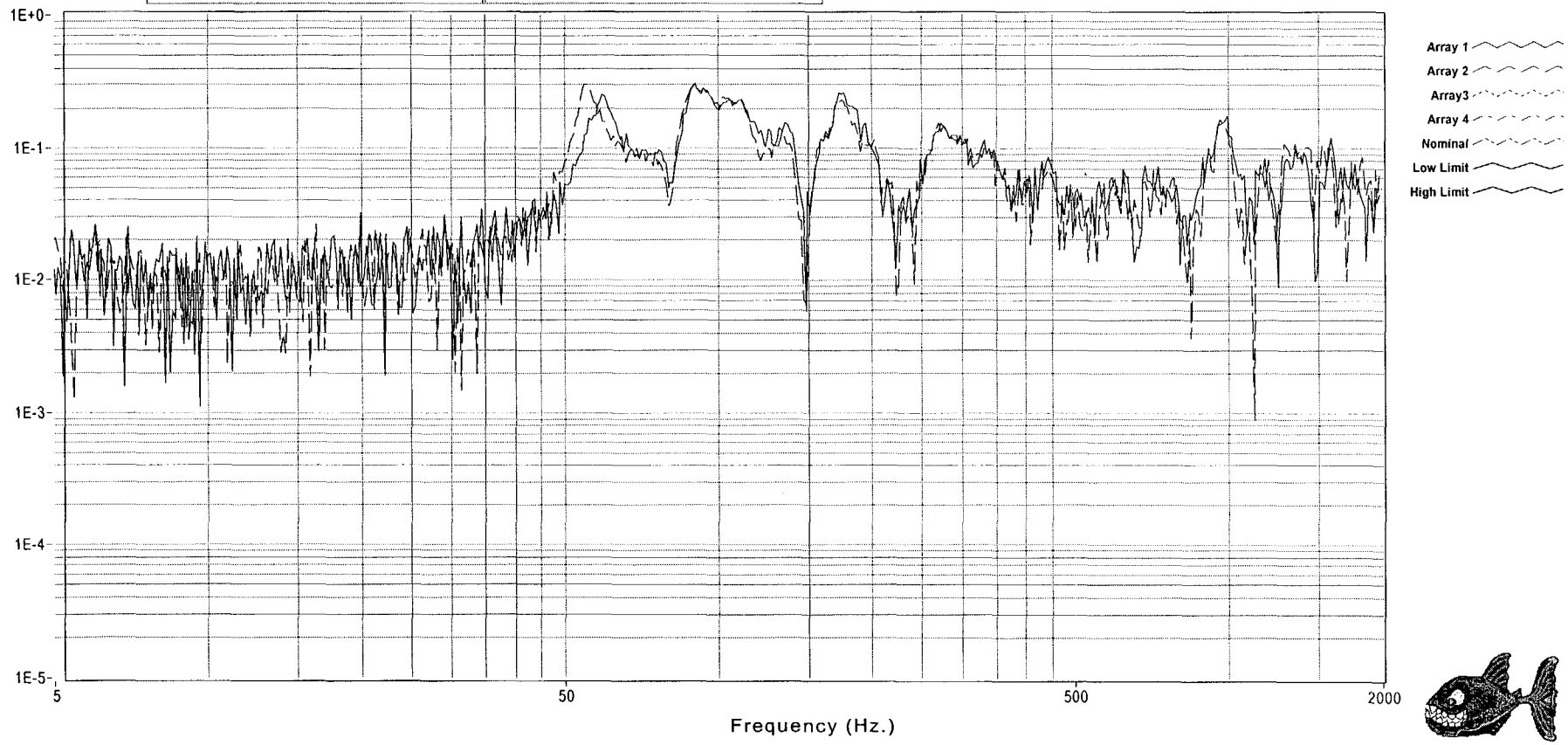
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A1RZ: +Y PANEL UPPERChannel #38	A1RZ: +Y PANEL UPPERChannel #38
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 6 SN=AG51	BOX 3 CH 6 SN=AG51
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.107E-1 at 90.2 Hz.	Maximum = 3.034E-1 at 90.2 Hz.
Overall or RMS	N/A	N/A



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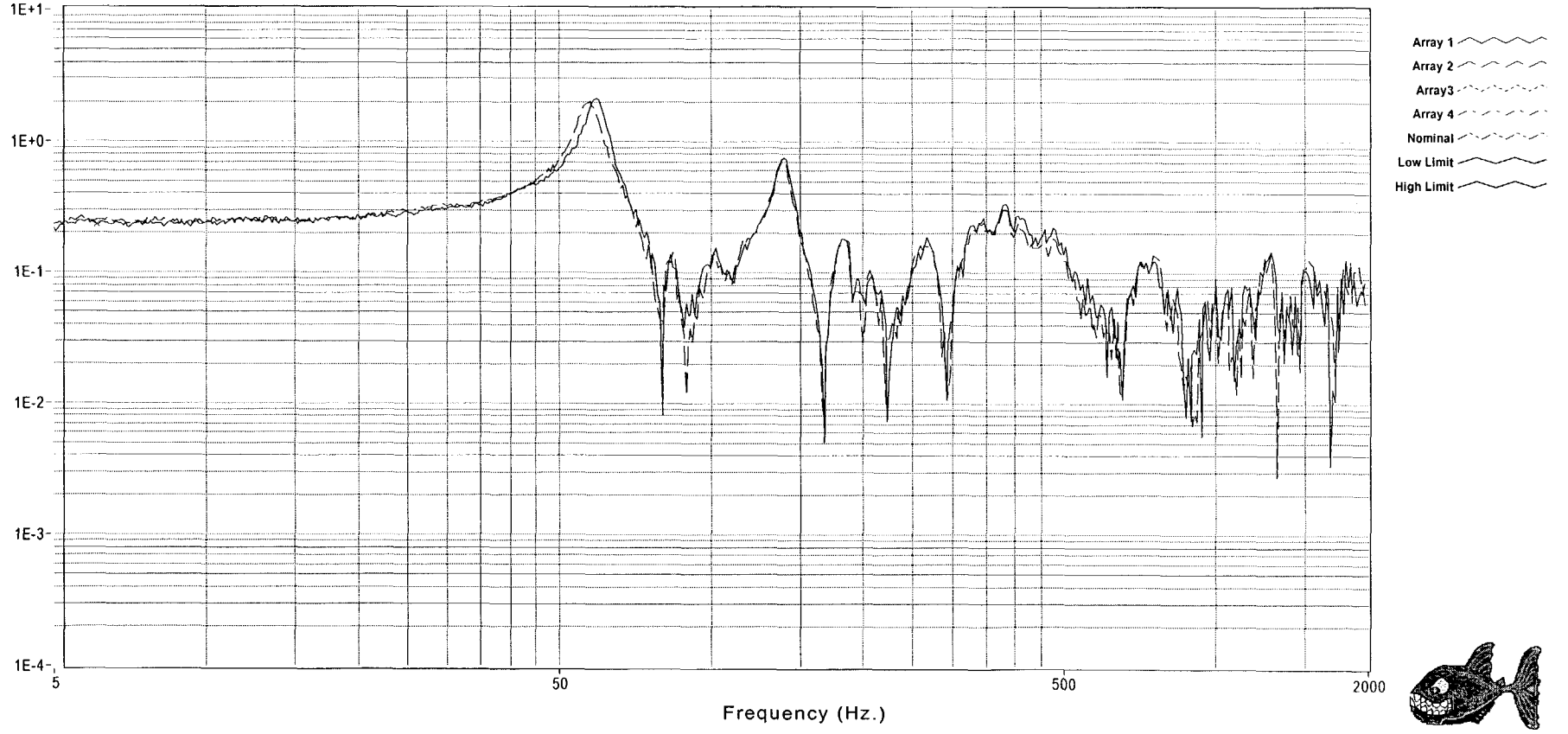
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A2X: +Y PANEL LOWER TEN Channel #39	A2X: +Y PANEL LOWER TEN Channel #39
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 7 SN=AK10	BOX 3 CH 7 SN=AK10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.123E+0 at 59.4 Hz.	Maximum = 2.013E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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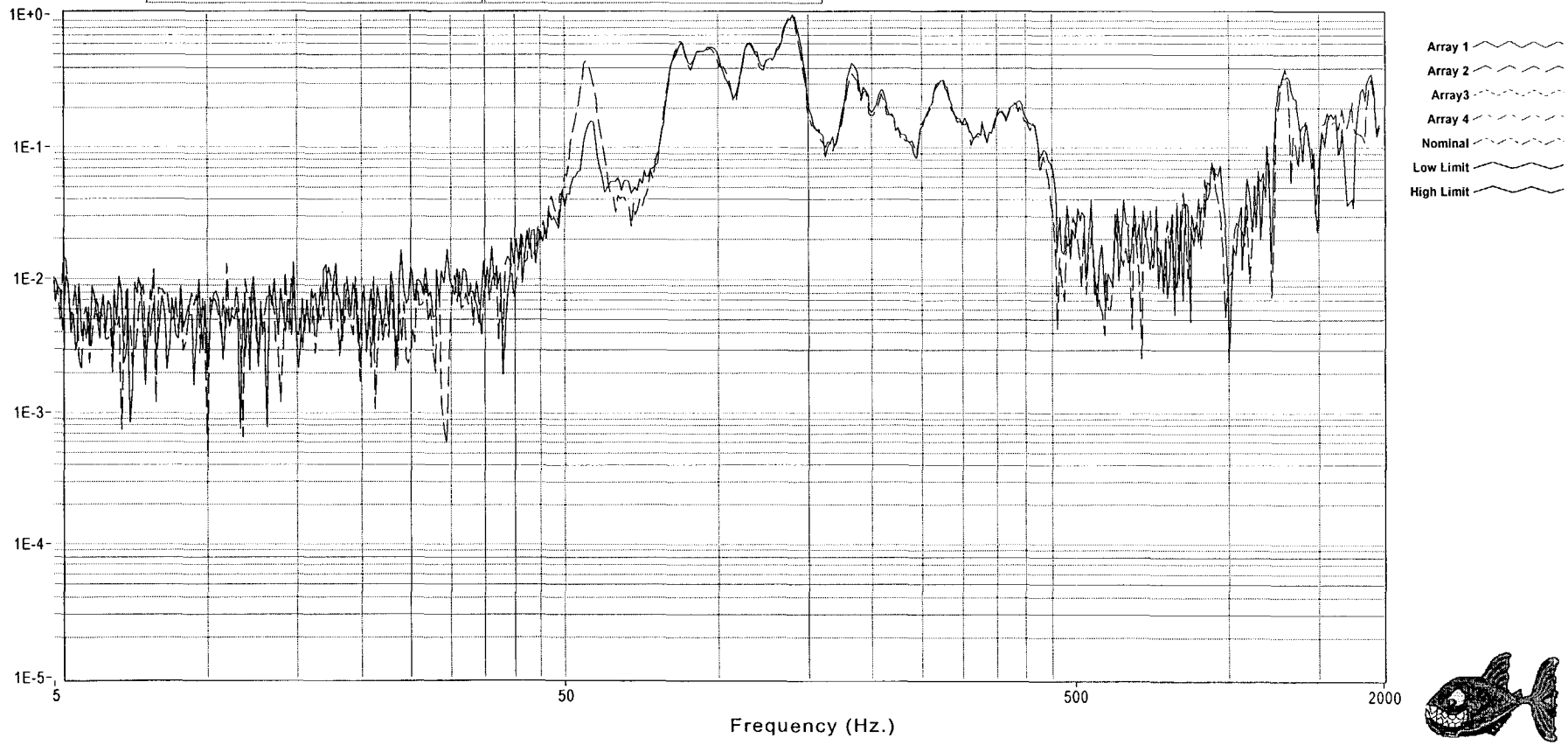
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A2Y: +Y PANEL LOWER CELL Channel #40	A2Y: +Y PANEL LOWER CELL Channel #40
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 8 SN=AB06	BOX 3 CH 8 SN=AB06
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.868E-1 at 139.7 Hz.	Maximum = 9.938E-1 at 139.7 Hz.
Overall or RMS	N/A	N/A



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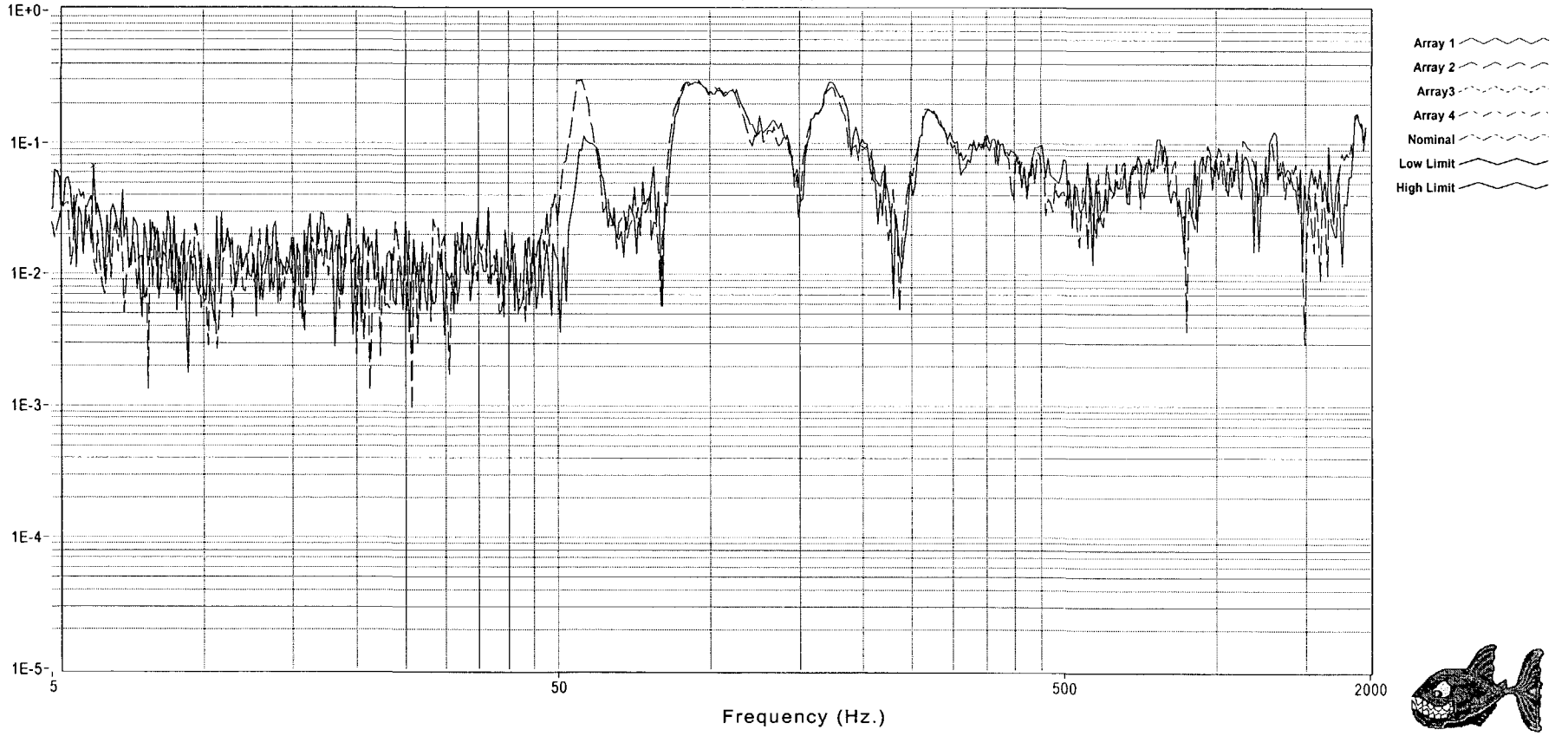
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A2Z: +Y PANEL LOWER CEN Channel #41	A2Z: +Y PANEL LOWER CEN Channel #41
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 9 SN=AF28	BOX 3 CH 9 SN=AF28
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.942E-1 at 95.7 Hz.	Maximum = 3.000E-1 at 55.9 Hz.
Overall or RMS	N/A	N/A



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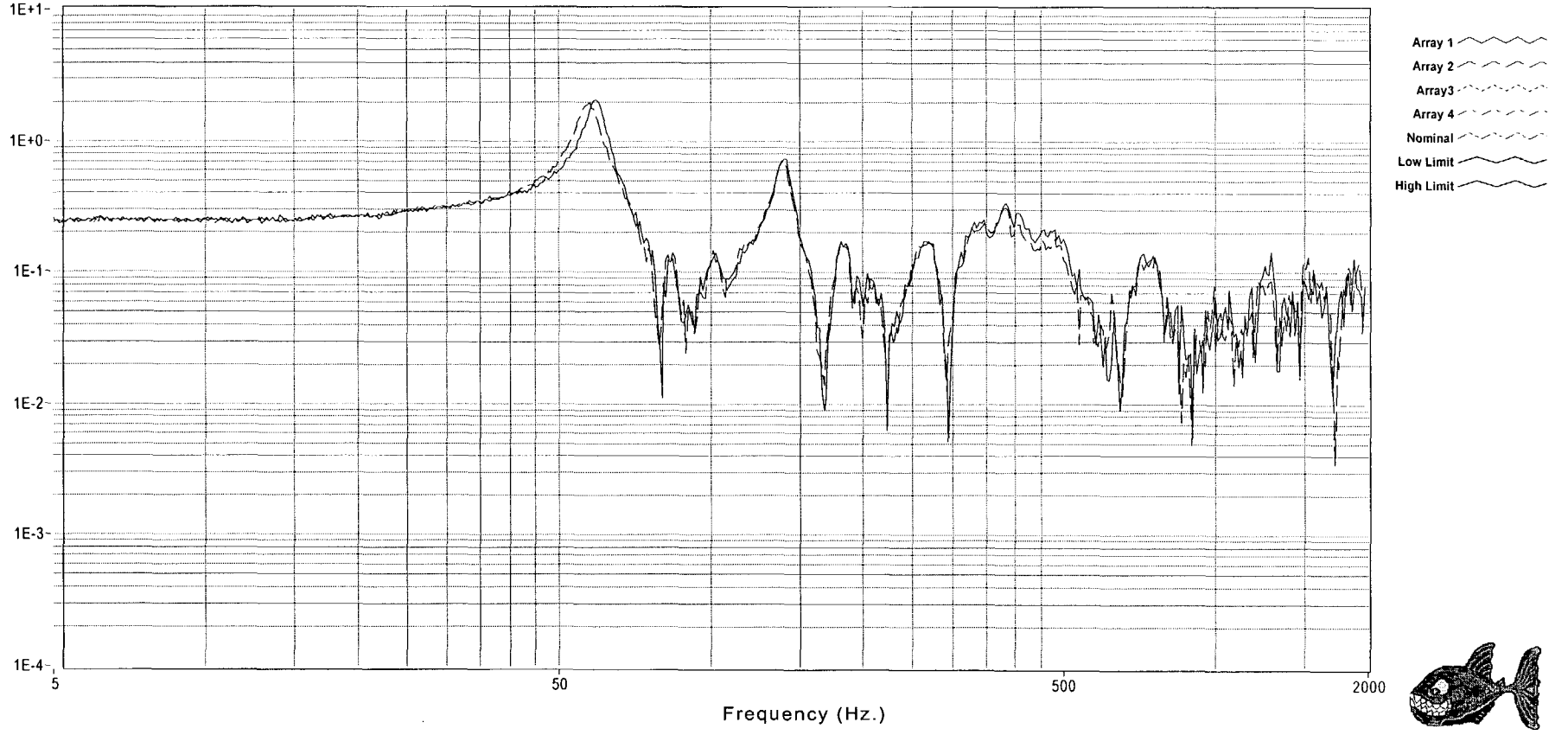
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A2RX: +Y PANEL LOWER CENTER Channel #42	A2RX: +Y PANEL LOWER CENTER Channel #42
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 10 SN=AJ30	BOX 3 CH 10 SN=AJ30
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.051E+0 at 59.4 Hz.	Maximum = 1.970E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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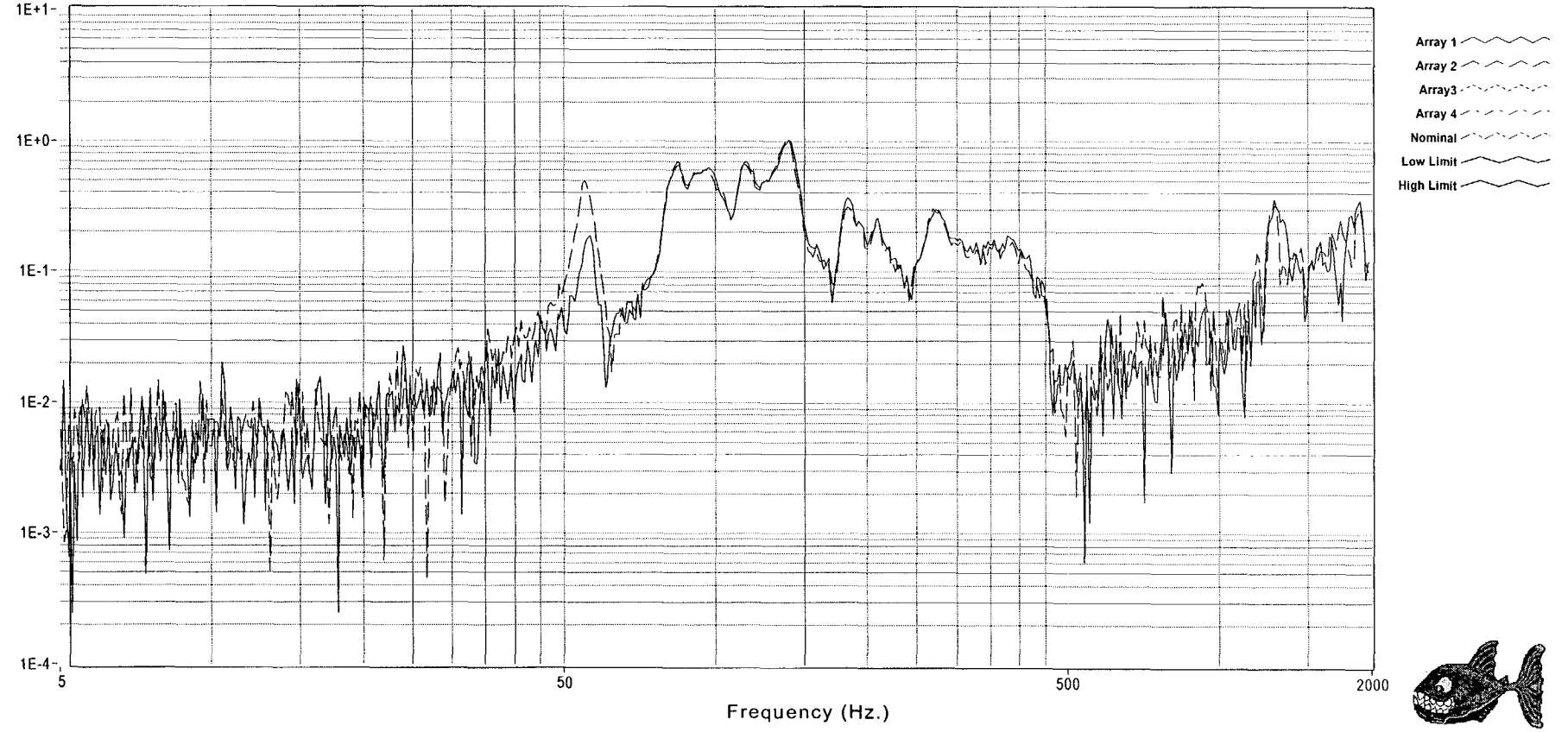
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A2RY: +Y PANEL LOWER TEST Channel #43	A2RY: +Y PANEL LOWER TEST Channel #43
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 11 SN=AE60	BOX 3 CH 11 SN=AE60
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.005E+0 at 139.7 Hz.	Maximum = 1.031E+0 at 139.7 Hz.
Overall or RMS	N/A	N/A



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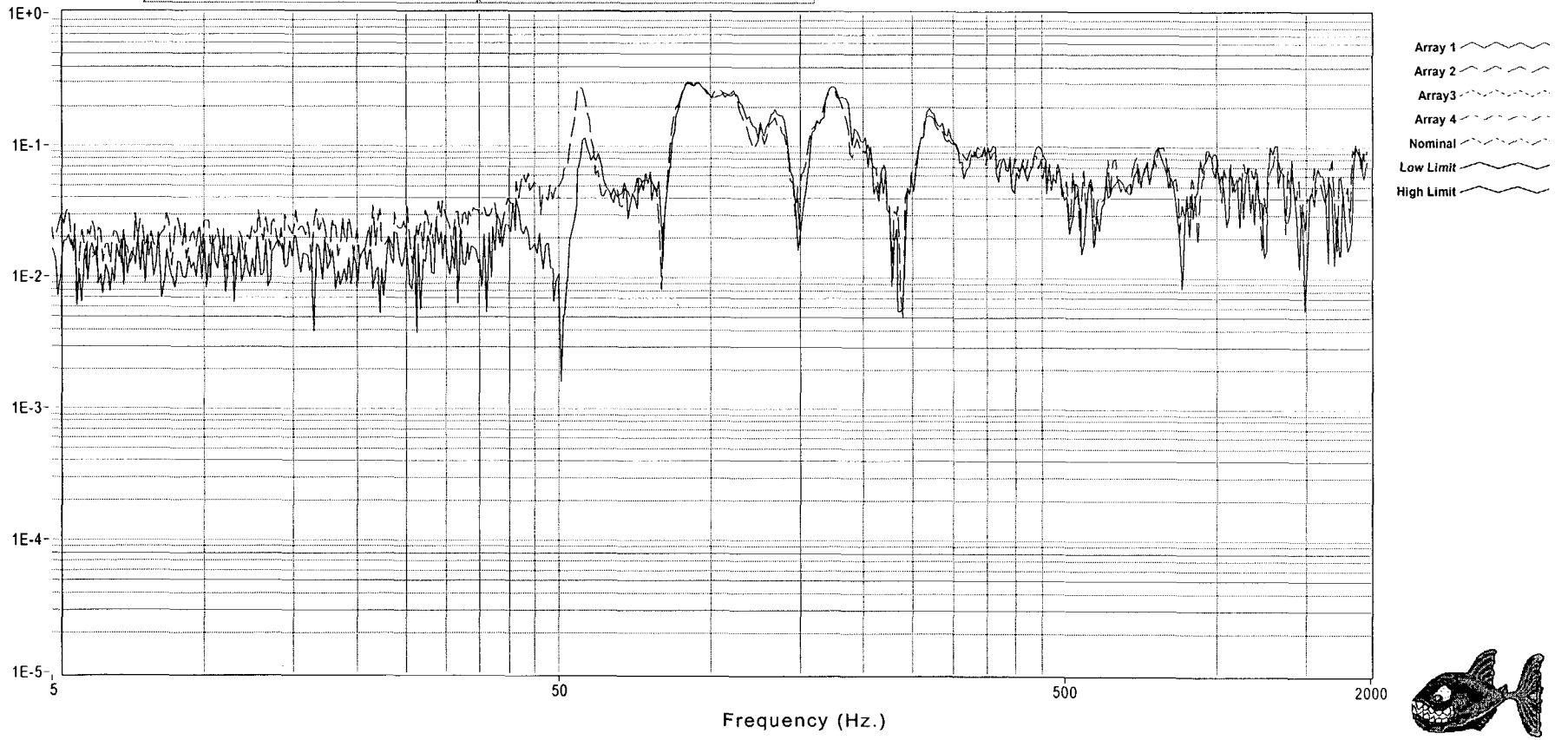
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A2RZ: +Y PANEL LOWER TEST Channel #44	A2RZ: +Y PANEL LOWER TEST Channel #44
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 12 SN=AG01	BOX 3 CH 12 SN=AG01
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.070E-1 at 90.2 Hz.	Maximum = 2.992E-1 at 92.0 Hz.
Overall or RMS	N/A	N/A



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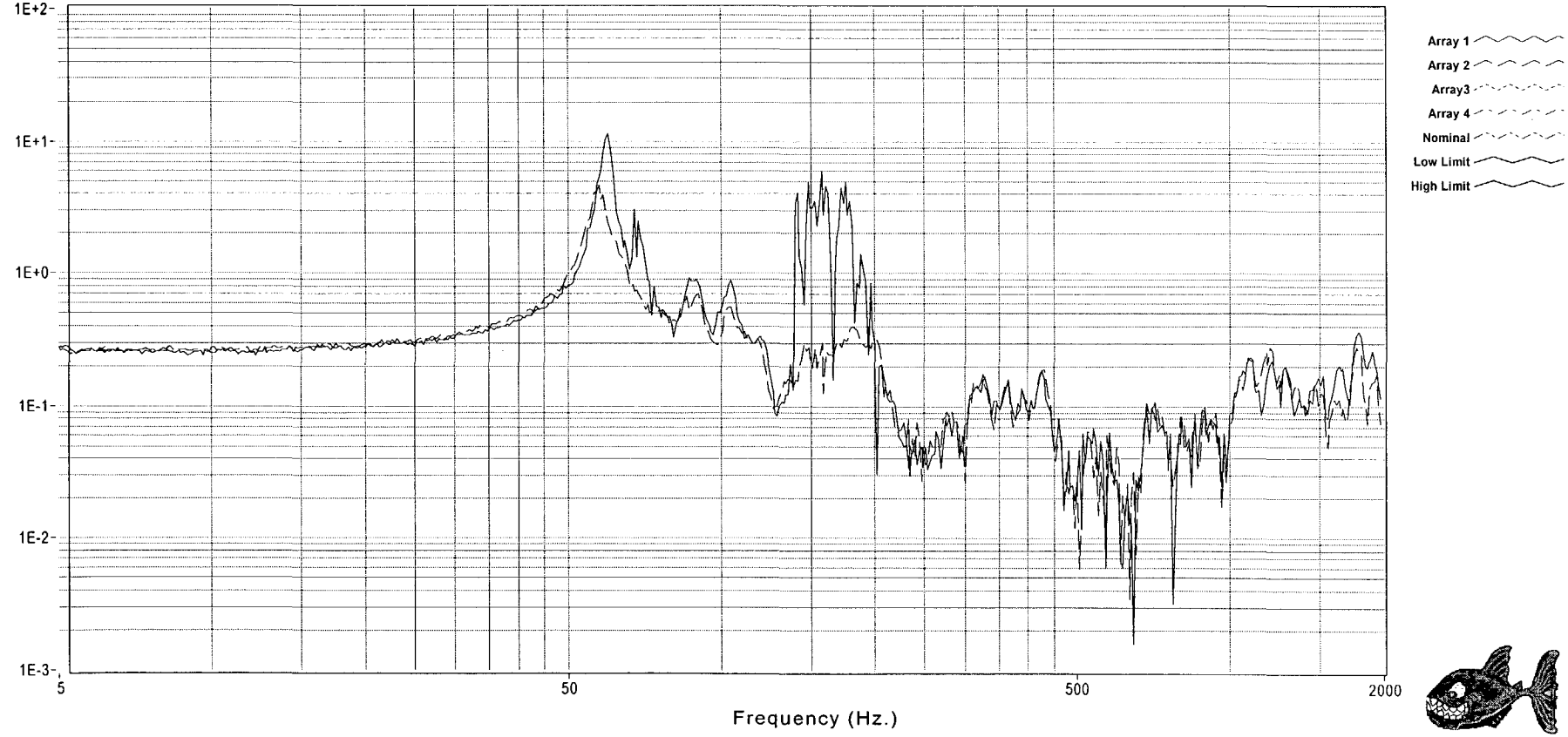
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A3X: +X PANEL UPPER CCh Channel #45	A3X: +X PANEL UPPER CCh Channel #45
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 13 SN=BC39
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.140E+1 at 60.0 Hz.	Maximum = 4.655E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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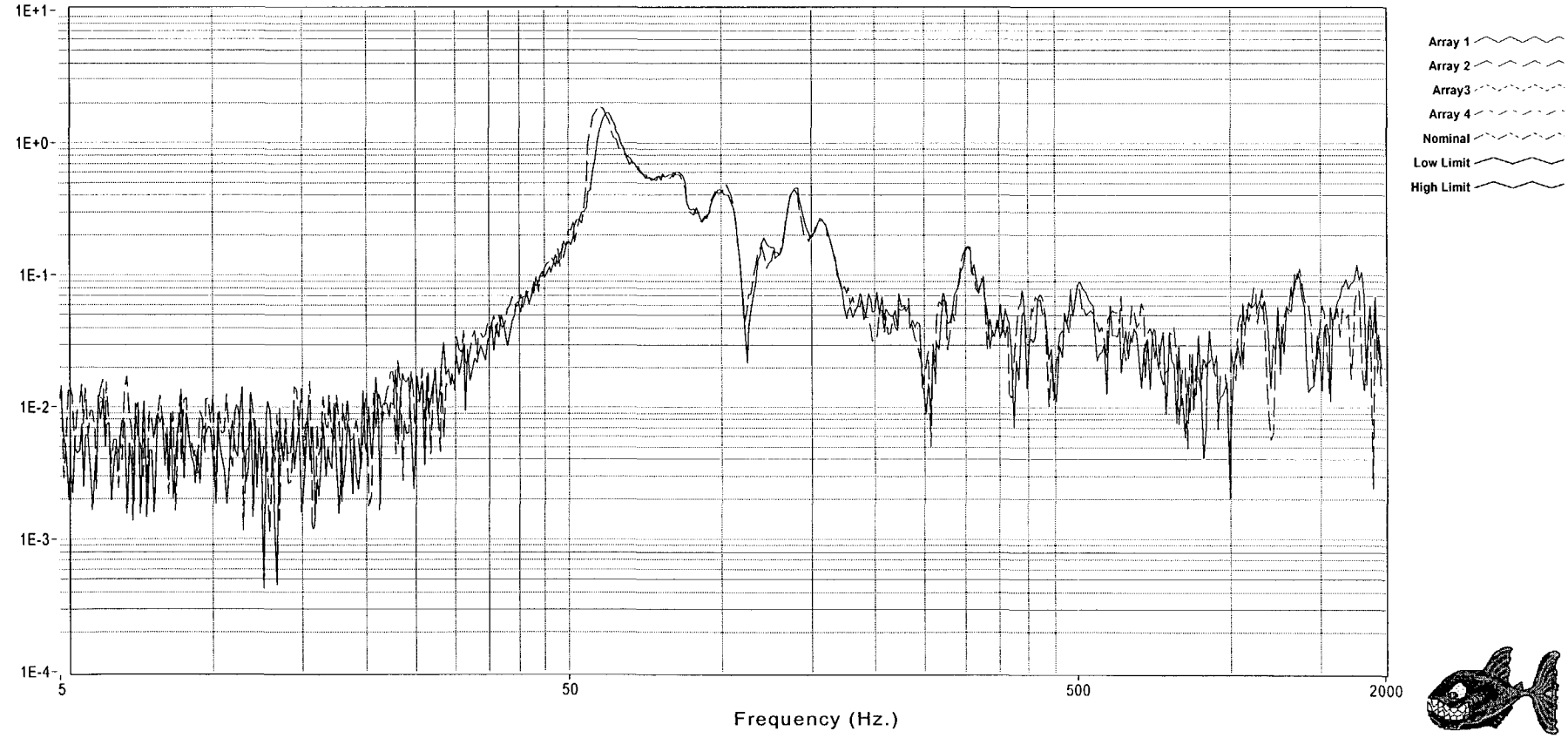
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A3Y: +X PANEL UPPER CCChannel #46	A3Y: +X PANEL UPPER CCChannel #46
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 14 SN=AG02	BOX 3 CH 14 SN=AG02
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.669E+0 at 60.0 Hz.	Maximum = 1.919E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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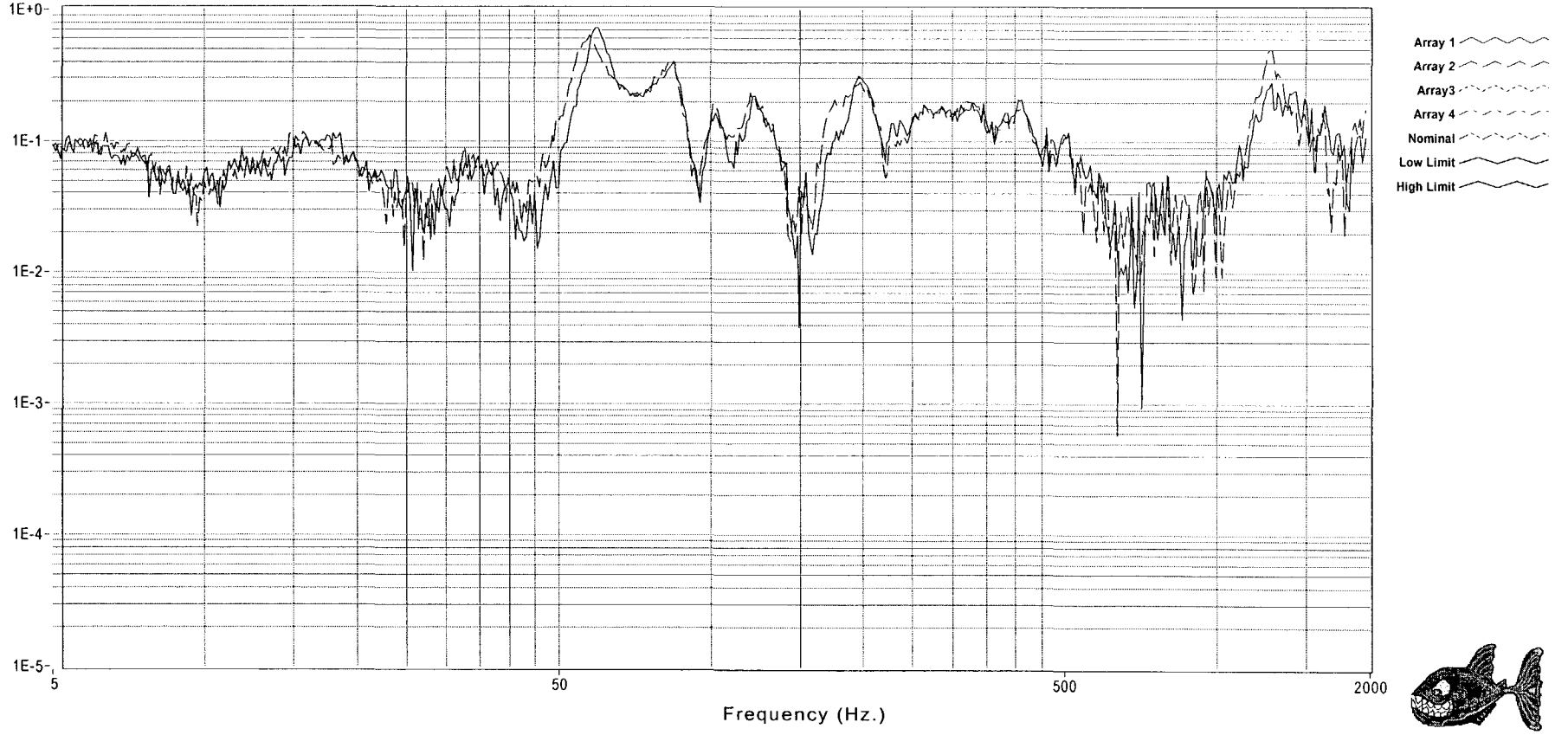
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A3Z: +X PANEL UPPER CCh Channel #47	A3Z: +X PANEL UPPER CCh Channel #47
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 15 SN=BC12	BOX 3 CH 15 SN=BC12
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.371E-1 at 60.0 Hz.	Maximum = 6.418E-1 at 57.6 Hz.
Overall or RMS	N/A	N/A



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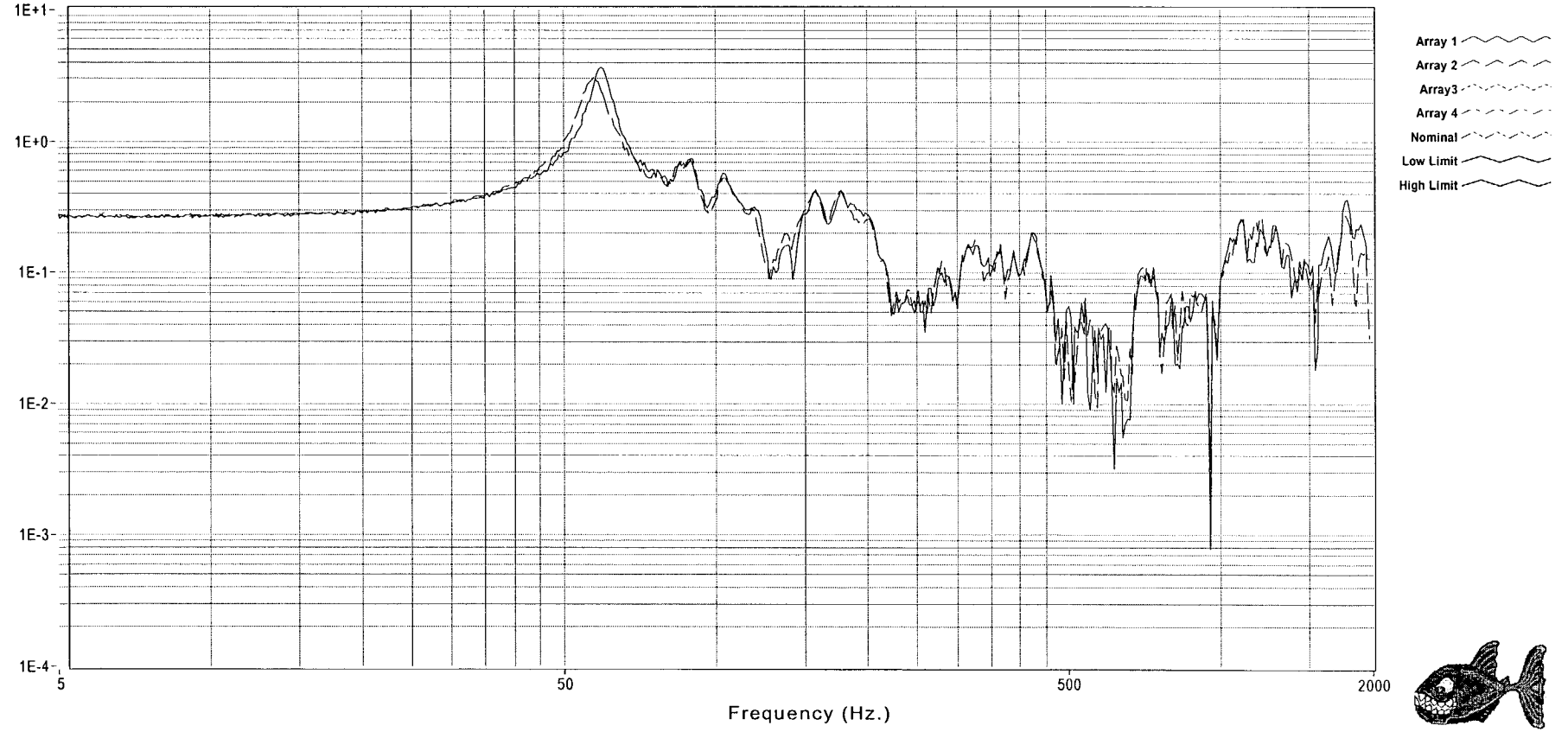
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A3RX: +X PANEL UPPER CCU Channel #48	A3RX: +X PANEL UPPER CCU Channel #48
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 16 SN=AE43	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.673E+0 at 59.4 Hz.	Maximum = 3.161E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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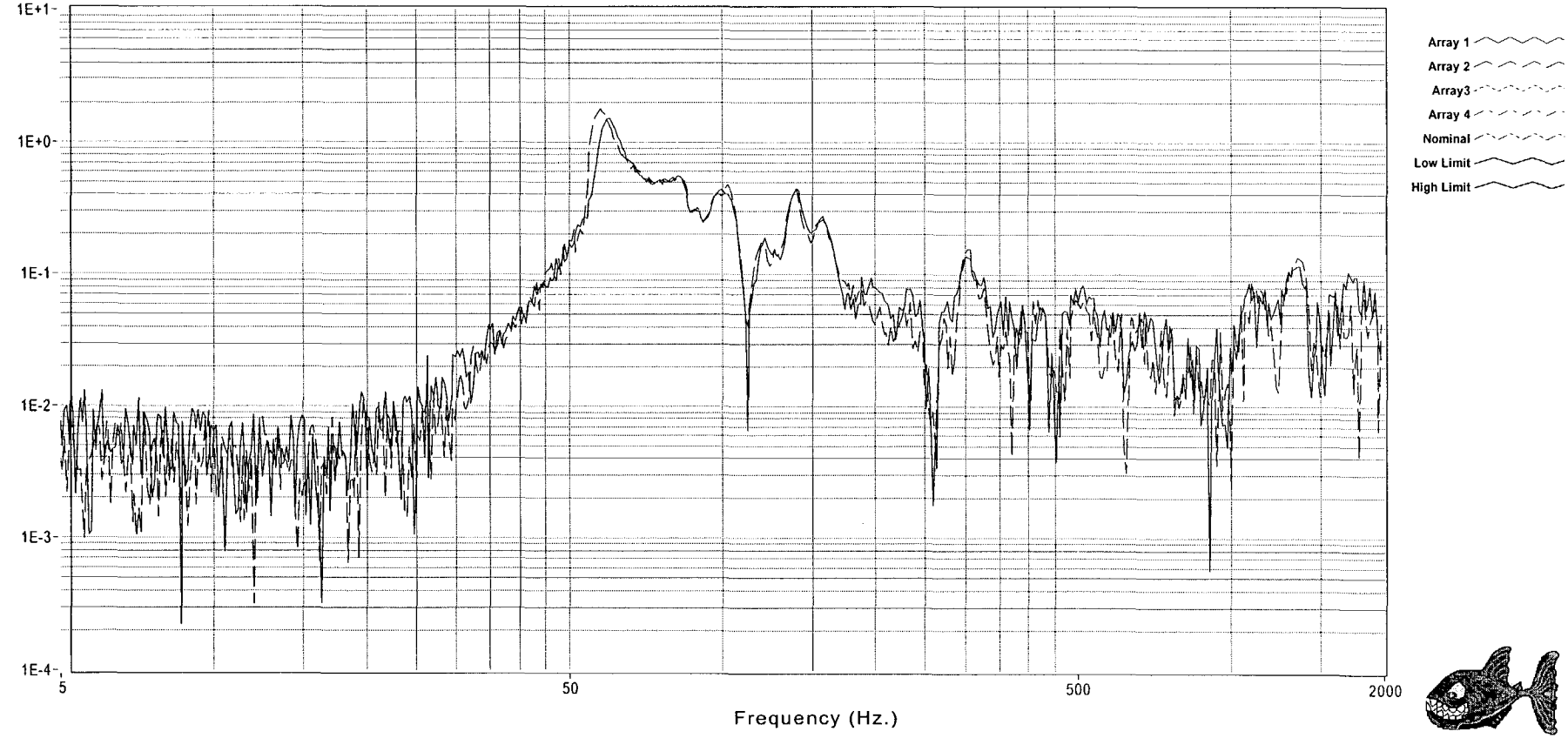
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A3RY: +X PANEL UPPER CCU Channel #49	A3RY: +X PANEL UPPER CCU Channel #49
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 1 SN=AF57	BOX 4 CH 1 SN=AF57
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.495E+0 at 60.0 Hz.	Maximum = 1.771E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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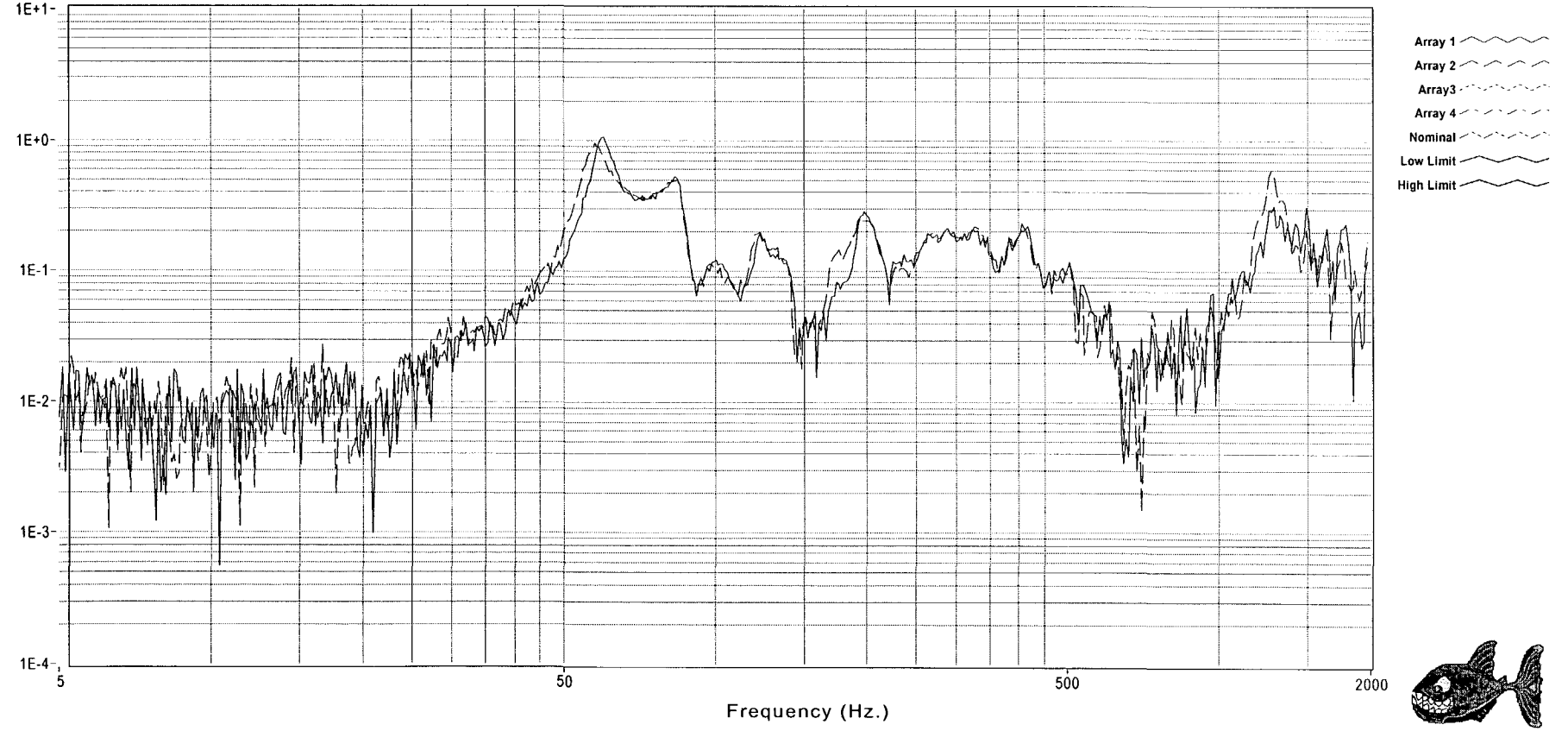
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A3RZ: +X PANEL UPPER CG Channel #50	A3RZ: +X PANEL UPPER CG Channel #50
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 2 SN=AB65	BOX 4 CH 2 SN=AB65
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.047E+0 at 60.0 Hz.	Maximum = 9.464E-1 at 57.6 Hz.
Overall or RMS	N/A	N/A



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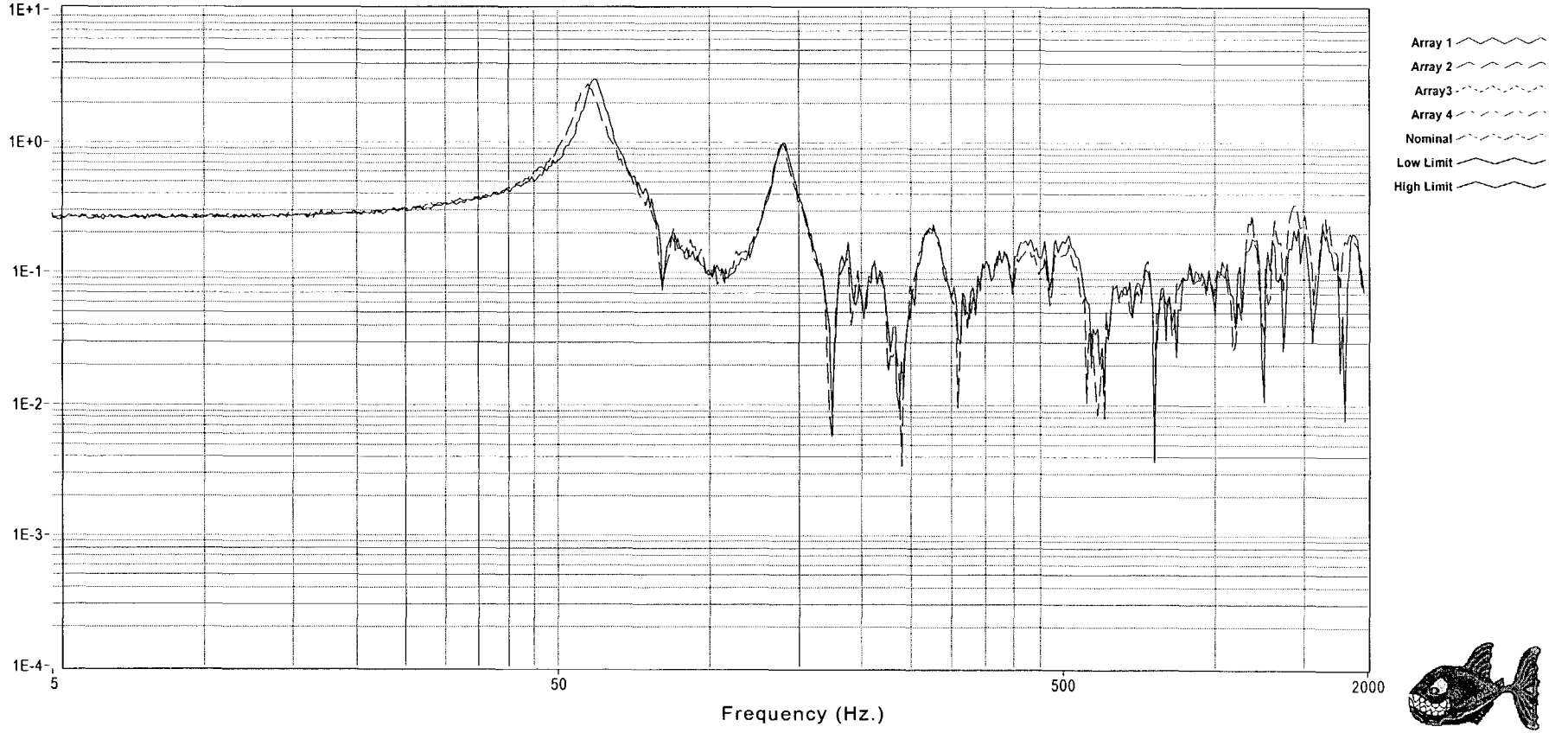
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A4X: +Y PANEL MID-CMUChannel #51	A4X: +Y PANEL MID-CMUChannel #51
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 3 SN=AH55	BOX 4 CH 3 SN=AH55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.991E+0 at 59.4 Hz.	Maximum = 2.758E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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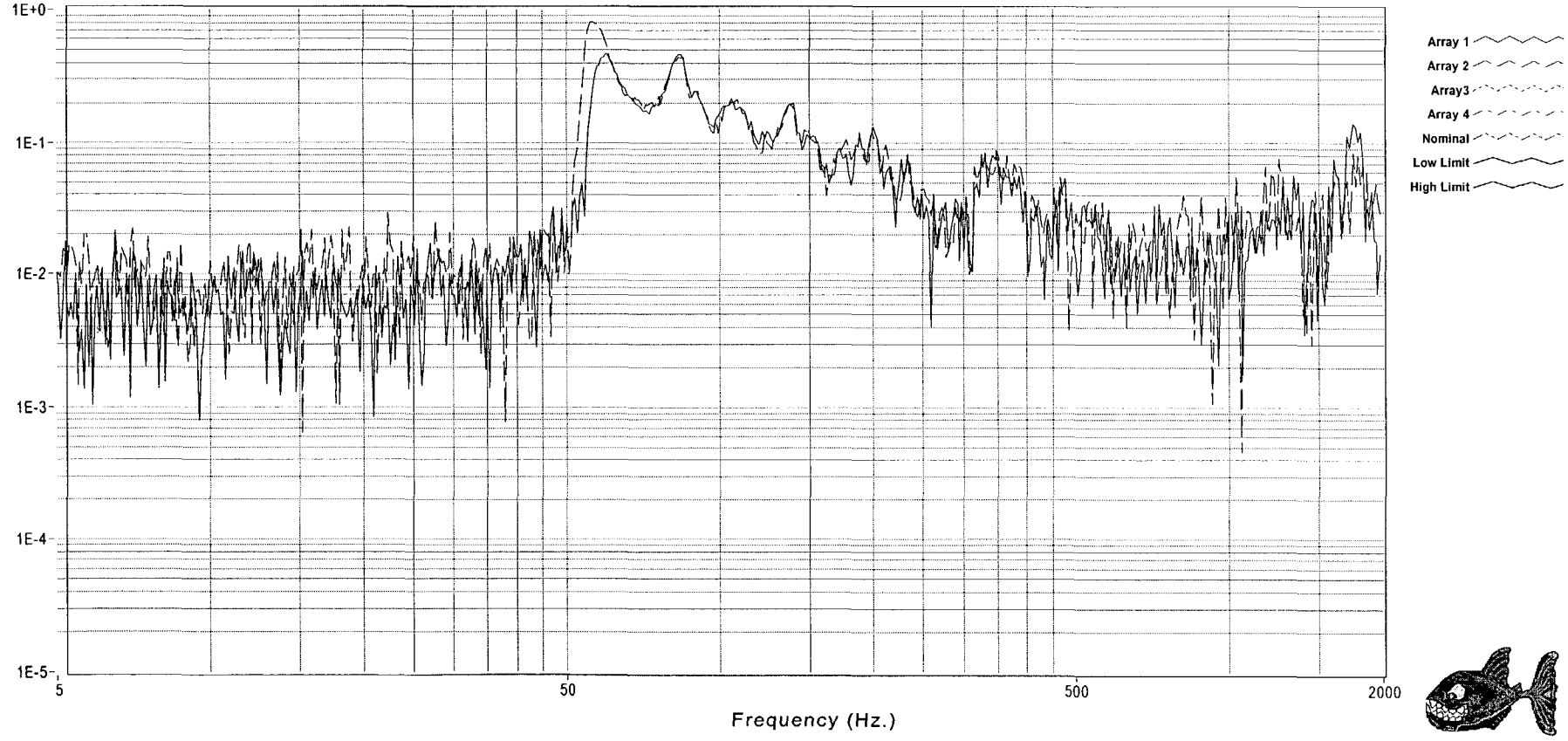
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A4Y: +Y PANEL MID-CMUChannel #52	A4Y: +Y PANEL MID-CMUChannel #52
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 4 SN=AJ95	BOX 4 CH 4 SN=AJ95
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.650E-1 at 60.0 Hz.	Maximum = 8.180E-1 at 55.9 Hz.
Overall or RMS	N/A	N/A



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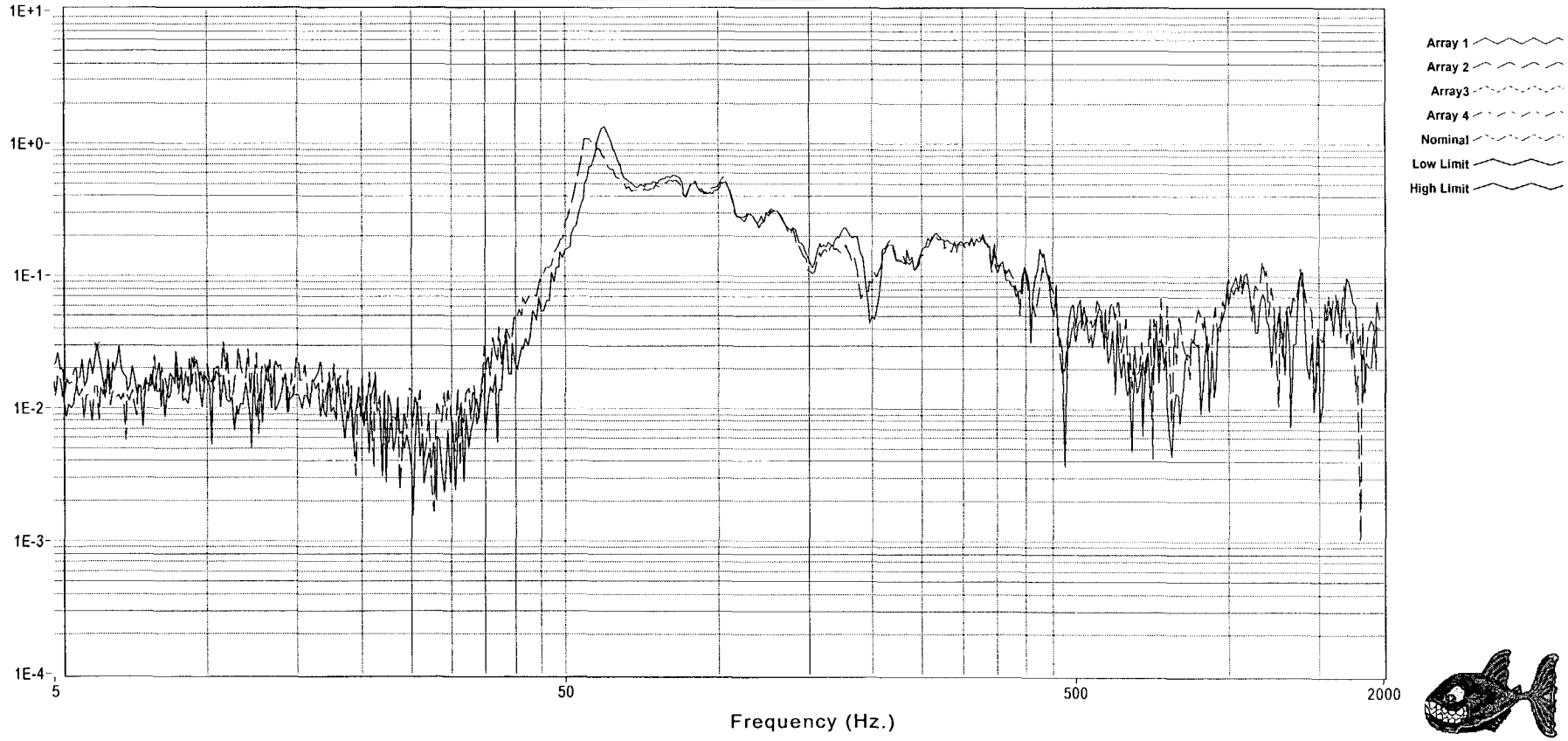
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A4Z: +Y PANEL MID-CMUChannel #53	A4Z: +Y PANEL MID-CMUChannel #53
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 5 SN=AB55	BOX 4 CH 5 SN=AB55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.323E+0 at 60.0 Hz.	Maximum = 1.079E+0 at 55.9 Hz.
Overall or RMS	N/A	N/A



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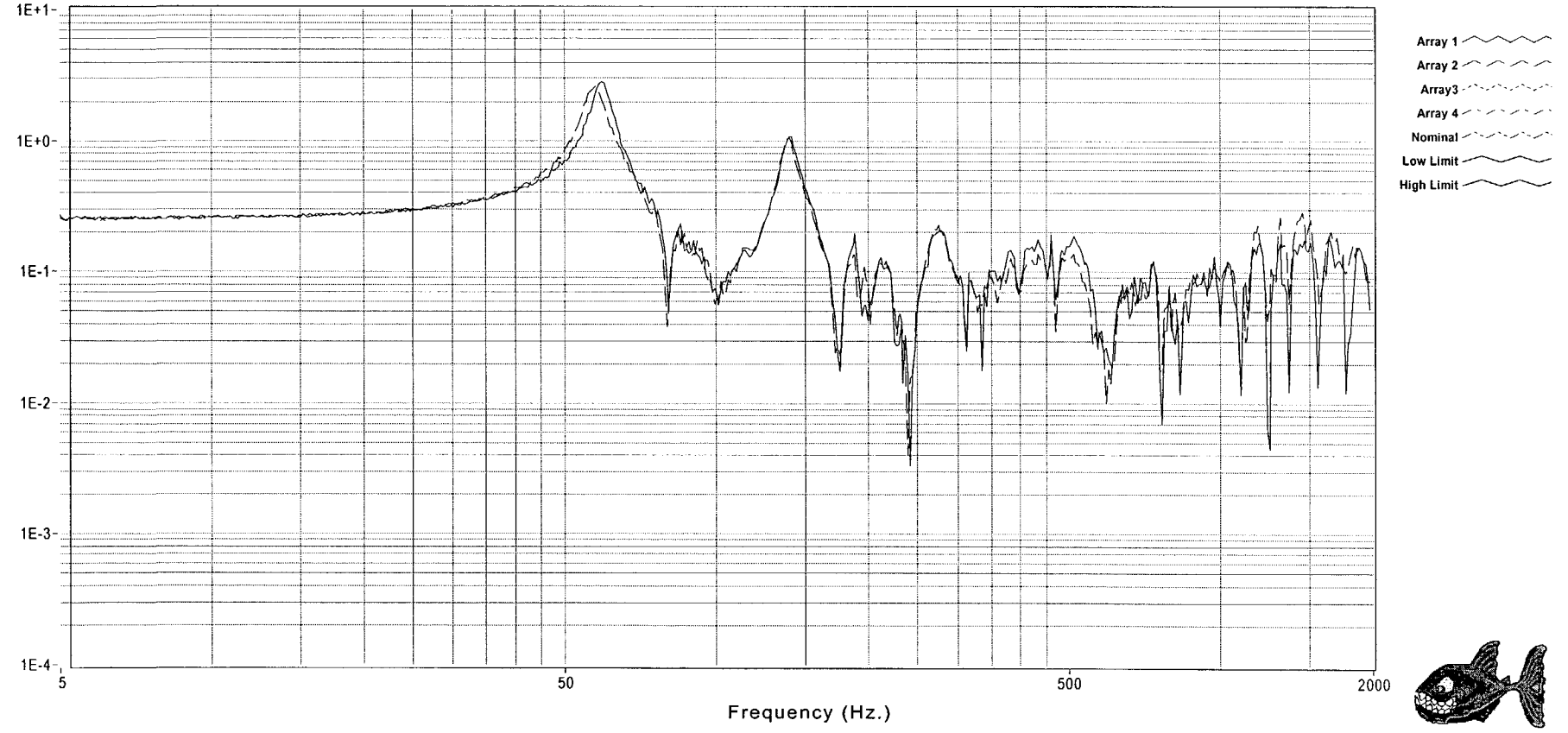
	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	A4RX: +Y PANEL MID-CMCChannel #54	A4RX: +Y PANEL MID-CMCChannel #54
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 6 SN=AF10	BOX 4 CH 6 SN=AF10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.812E+0 at 59.4 Hz.	Maximum = 2.599E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



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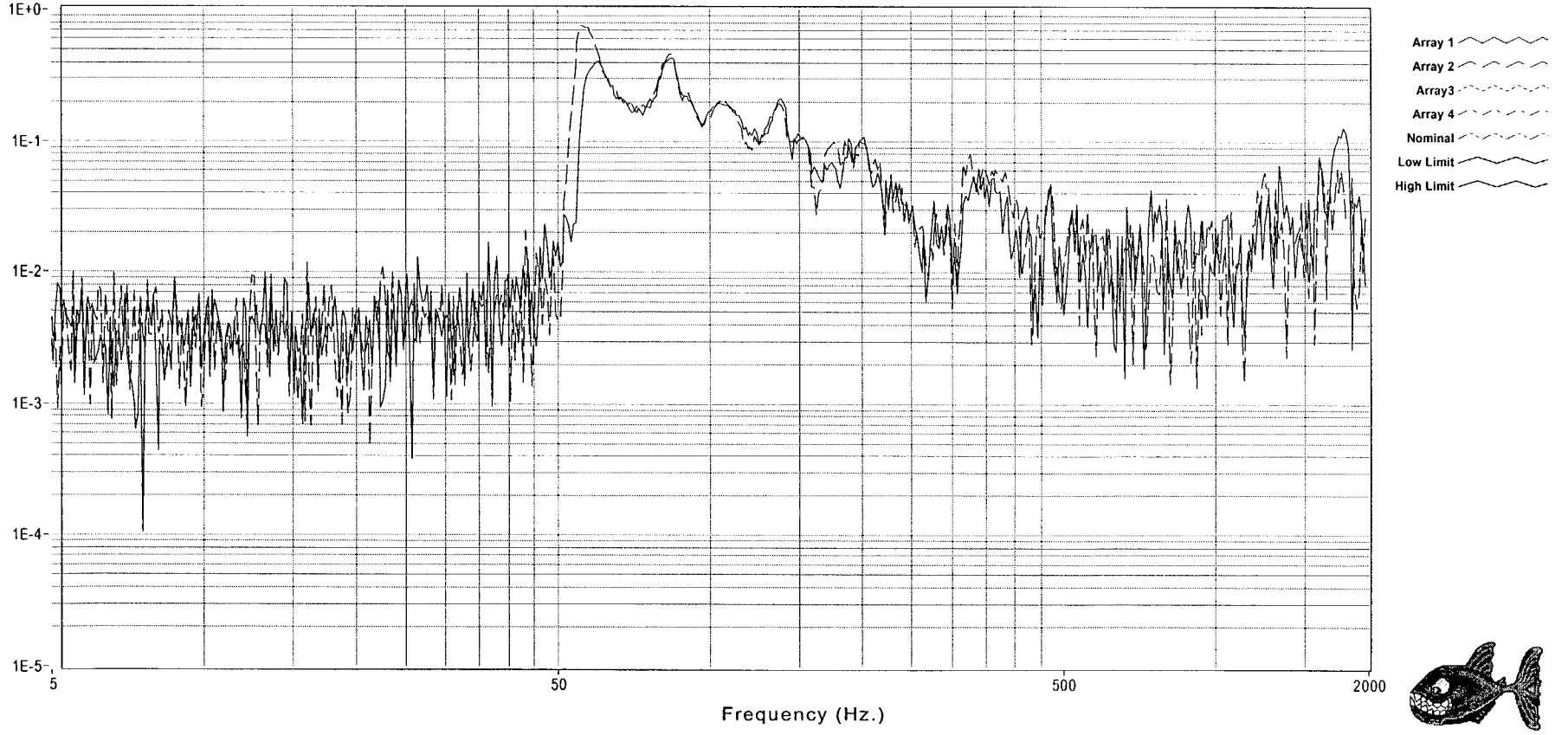
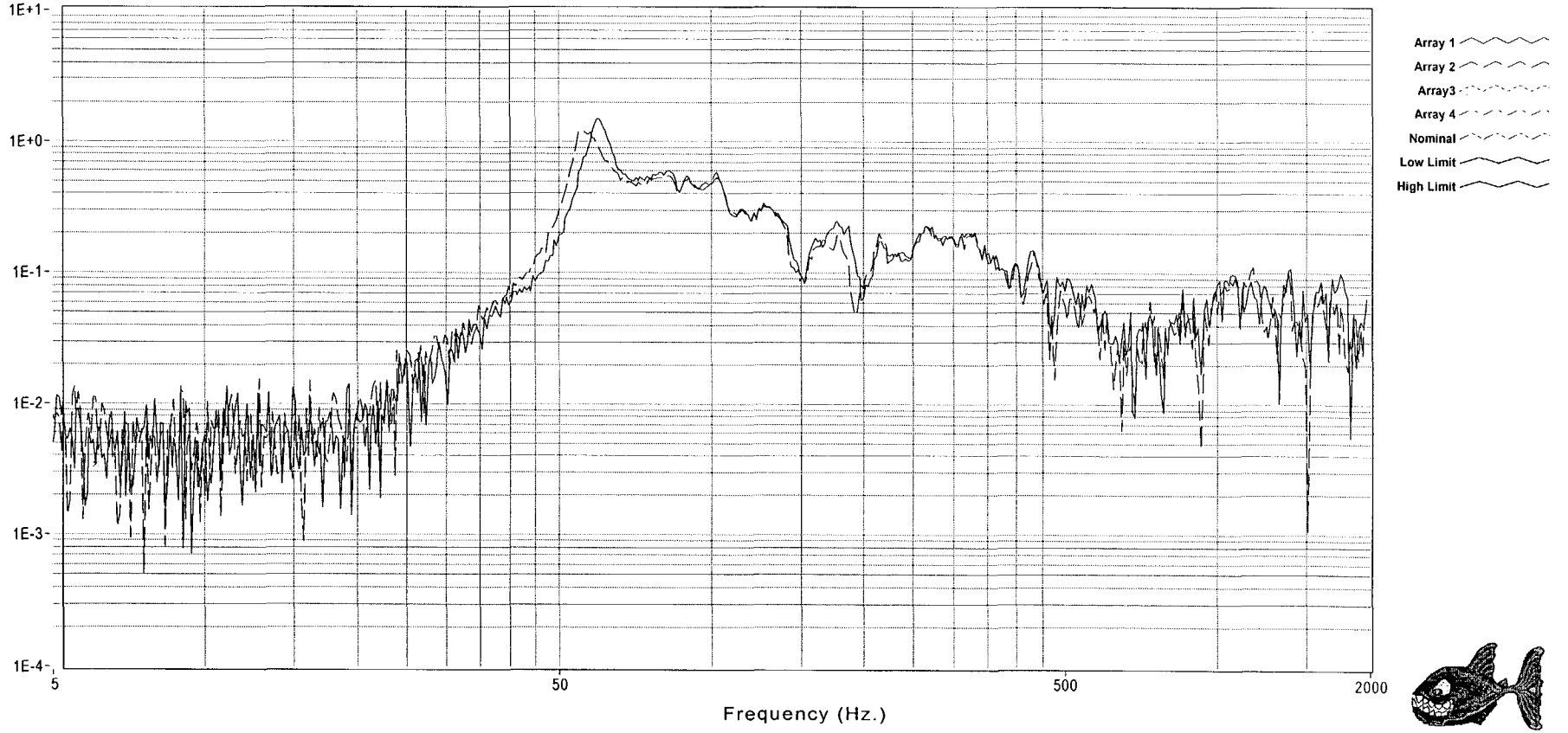
	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A4RY: +Y PANEL MID-CMCChannel #55	A4RY: +Y PANEL MID-CMCChannel #55
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 7 SN=AF56	BOX 4 CH 7 SN=AF56
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.287E-1 at 84.1 Hz.	Maximum = 7.659E-1 at 55.9 Hz.
Overall or RMS	N/A	N/A



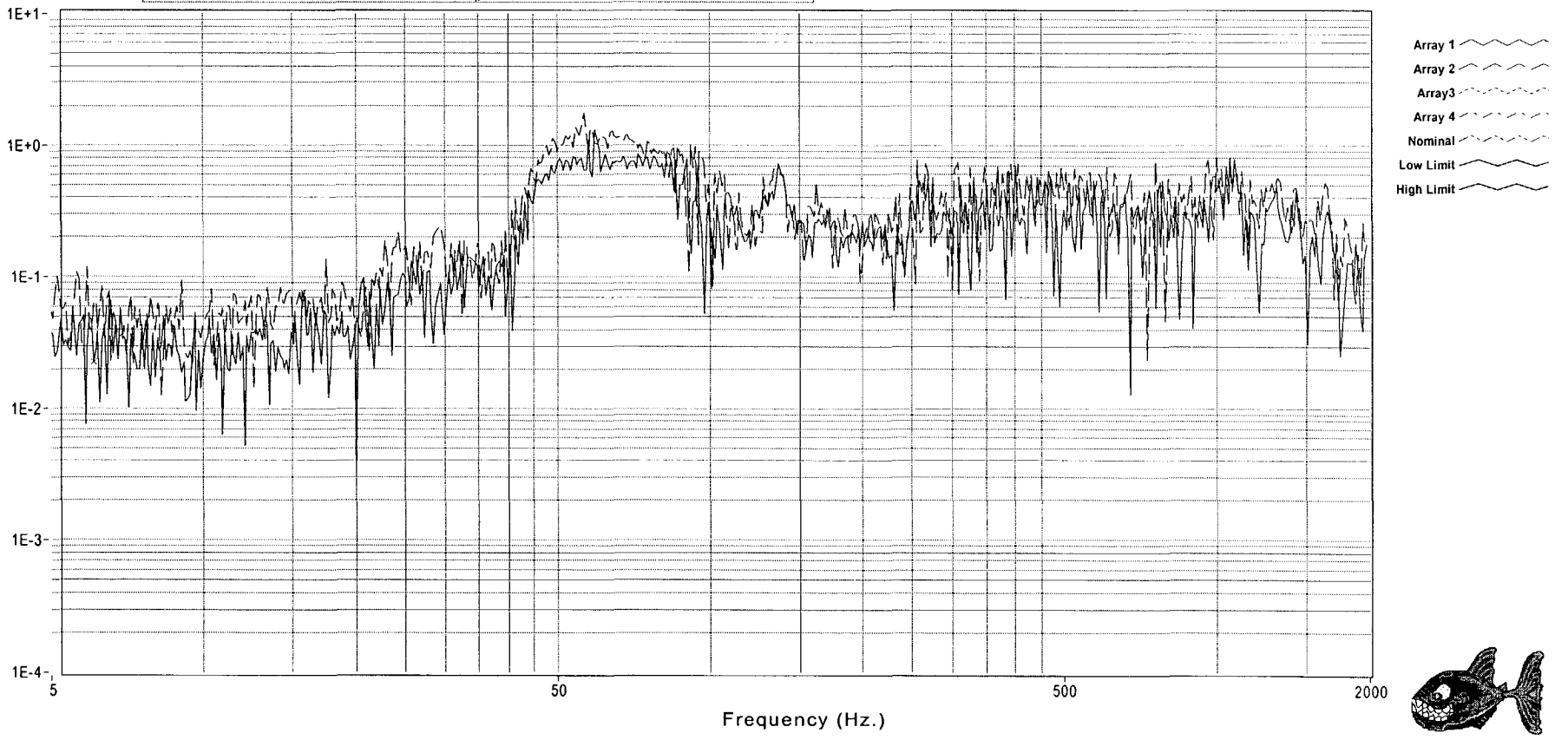
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062405
	A4RZ: +Y PANEL MID-CMOhannel #56	A4RZ: +Y PANEL MID-CMOhannel #56
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 8 SN=AD53	BOX 4 CH 8 SN=AD53
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.490E+0 at 60.0 Hz.	Maximum = 1.202E+0 at 55.9 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062405
	F1: FLY AWAY Channel #57	F1: FLY AWAY Channel #57
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062405
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 4:44:24
Channel Description	BOX 4 CH 9 SN=BF27	BOX 4 CH 9 SN=BF27
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.314E+0 at 59.4 Hz.	Maximum = 1.736E+0 at 56.5 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

North_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

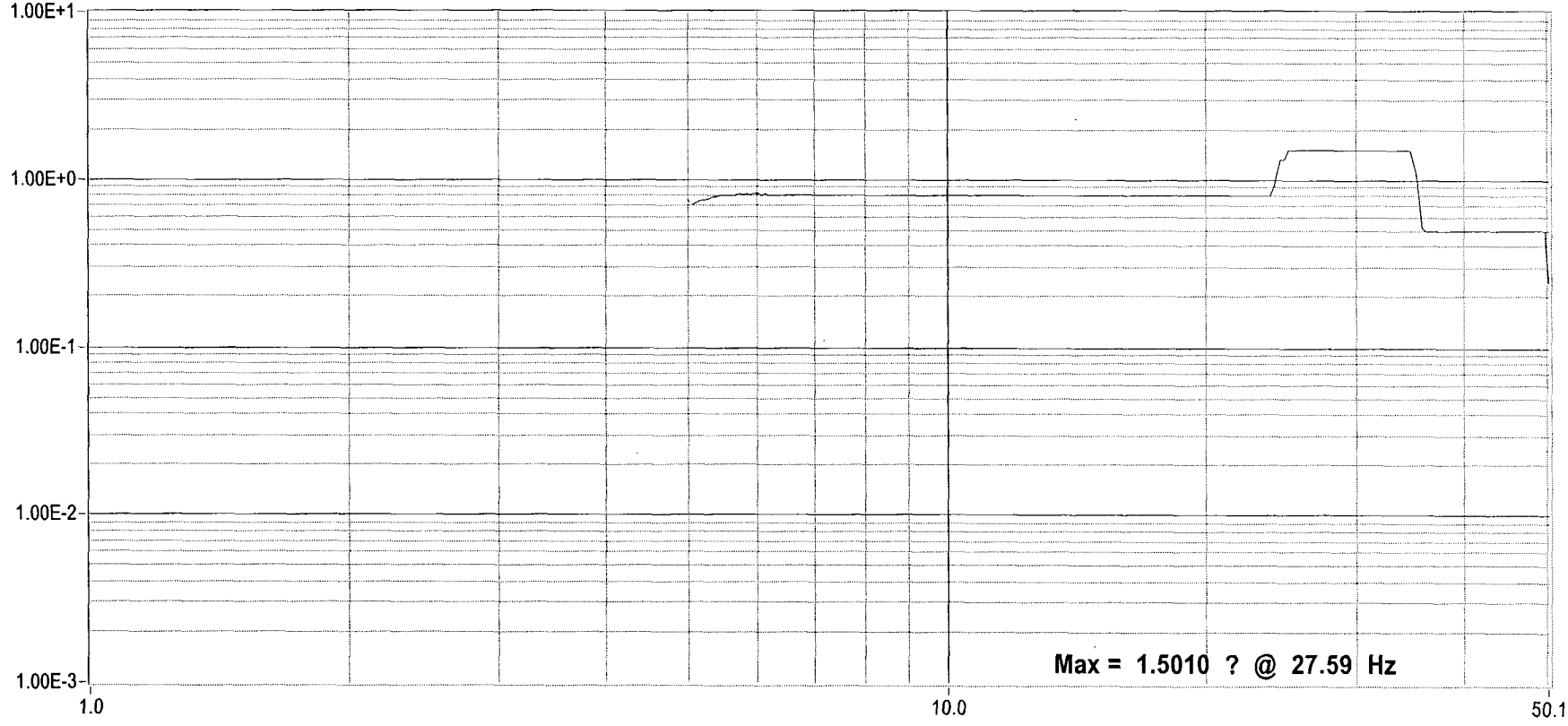
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 1 **Node Number:** 0001

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:09 AM

Frequency HZ

North_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

North_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

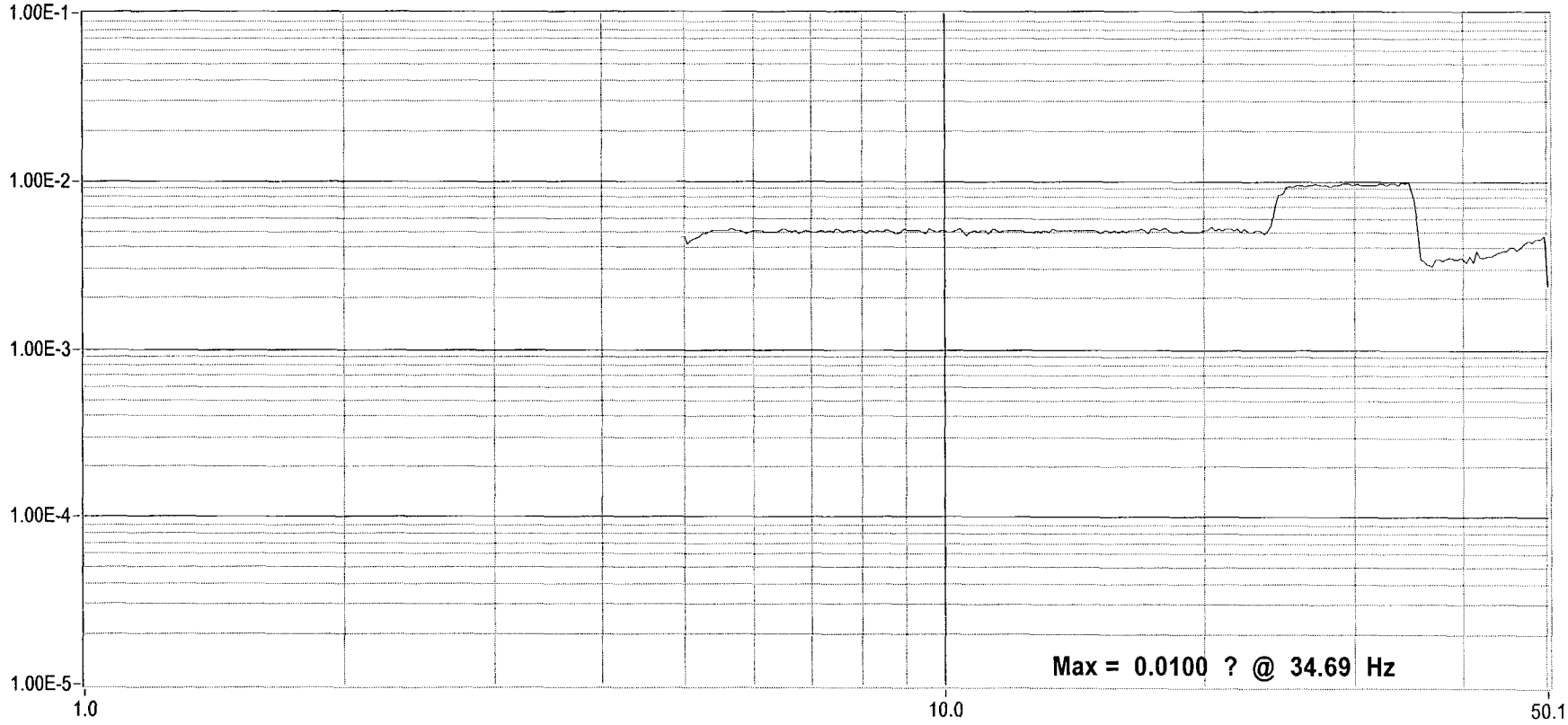
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 2 **Node Number:** 0002

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 AM

Frequency HZ

North_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

North_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

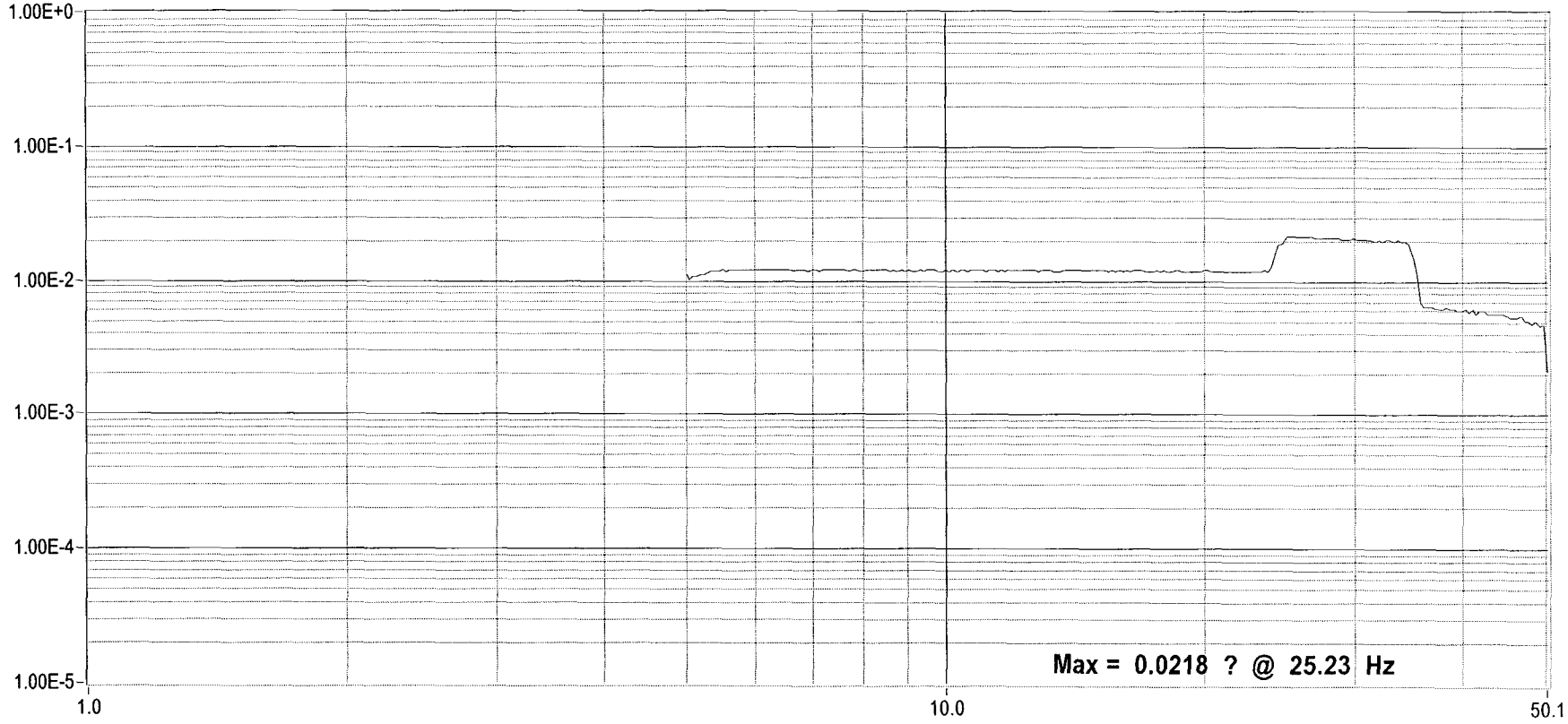
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 3 **Node Number:** 0003

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 AM

Frequency HZ

North_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

South_Control_X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

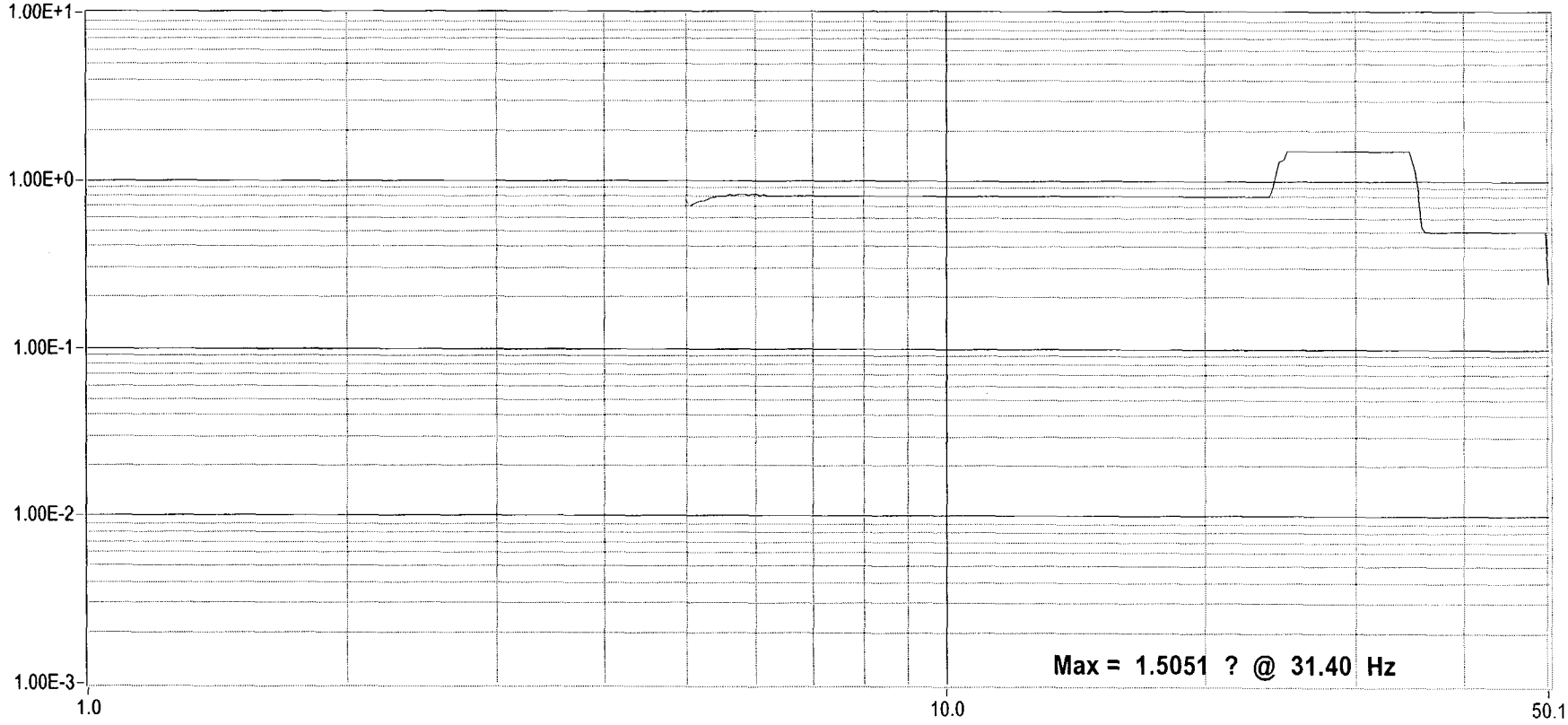
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 4 **Node Number:** 0004

Channel Description: I

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 AM

Frequency HZ

South_Control_X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

South_Control_Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

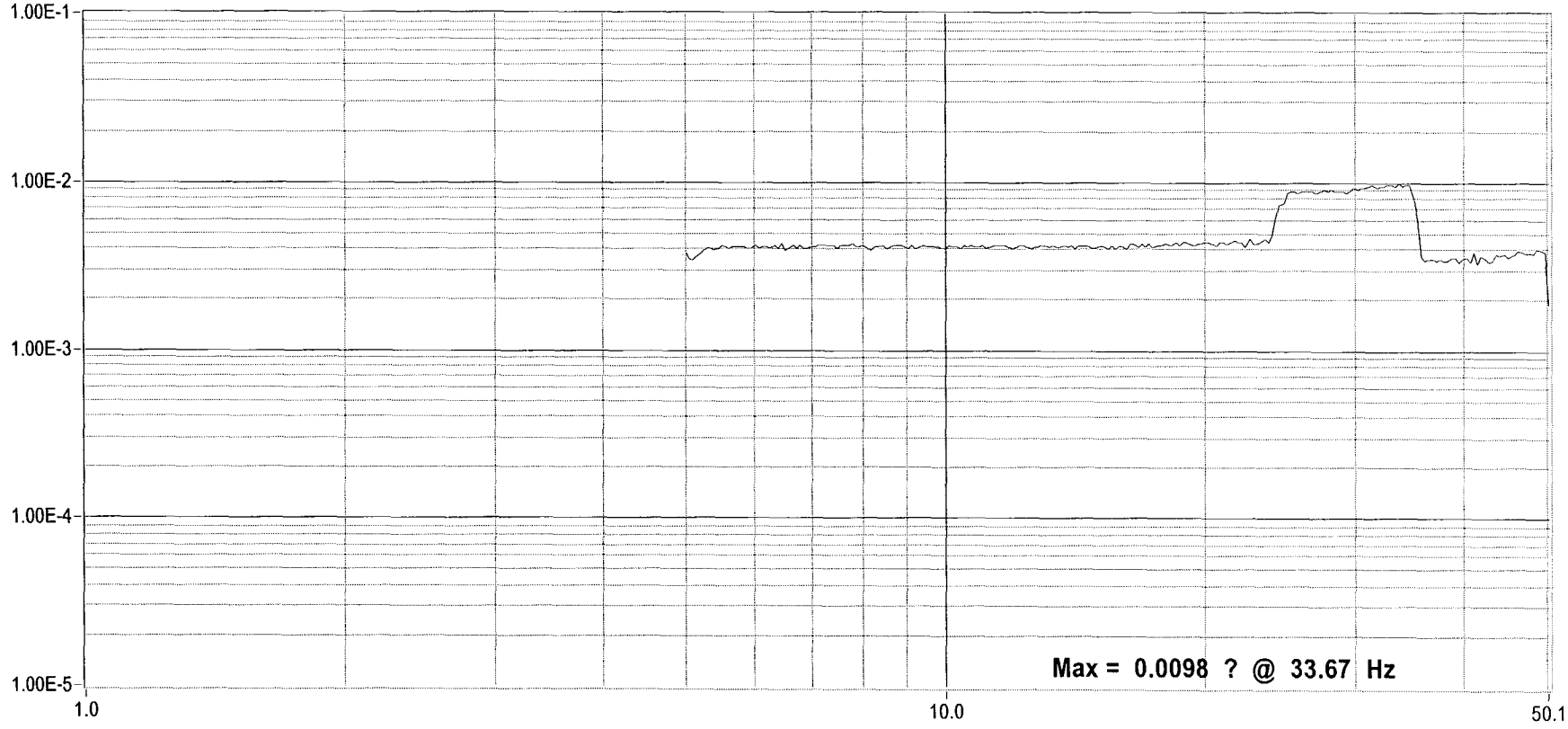
Channel #: 5 **Node Number:** 0005

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 AM

Frequency HZ

South_Control_Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

South_Control_Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

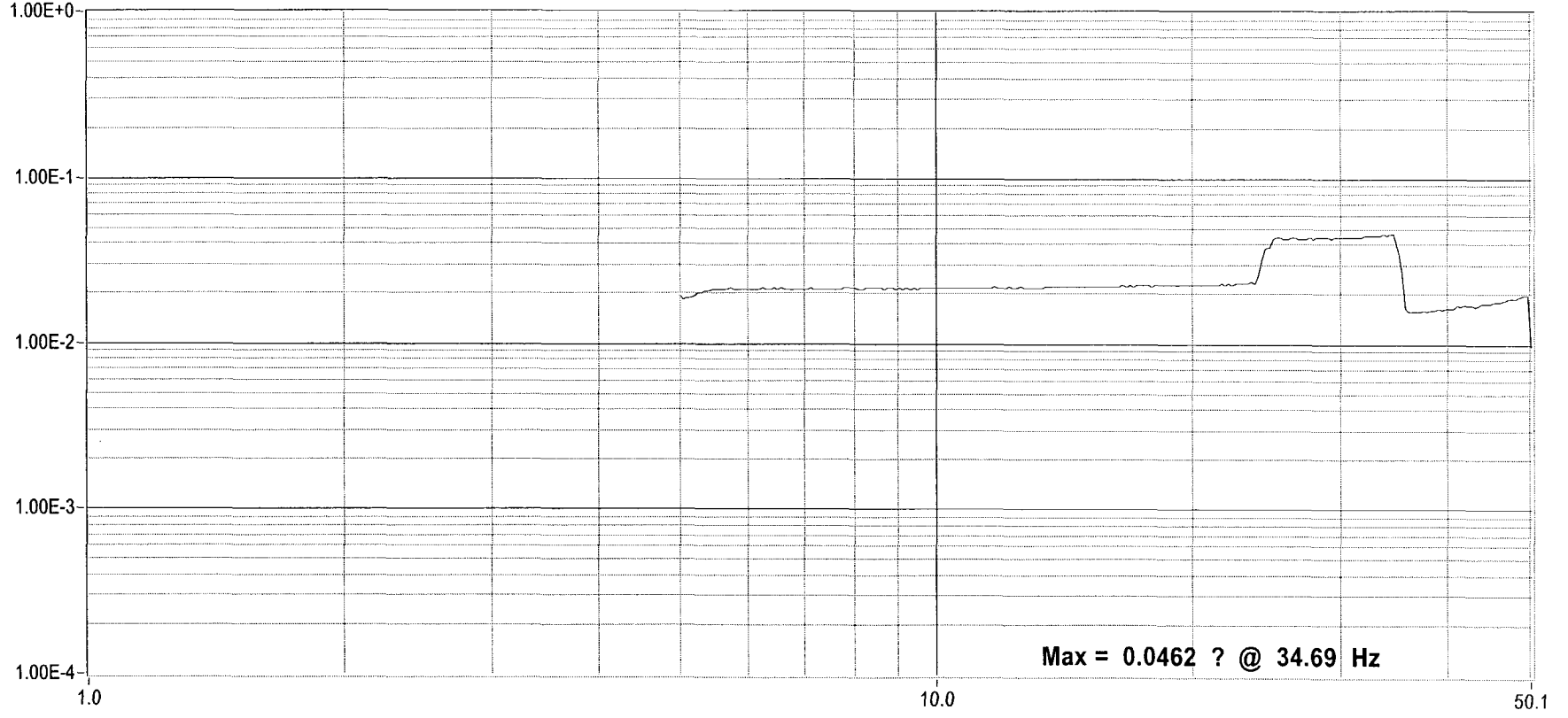
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 6 **Node Number:** 0006

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 AM

Frequency HZ

South_Control_Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A5 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

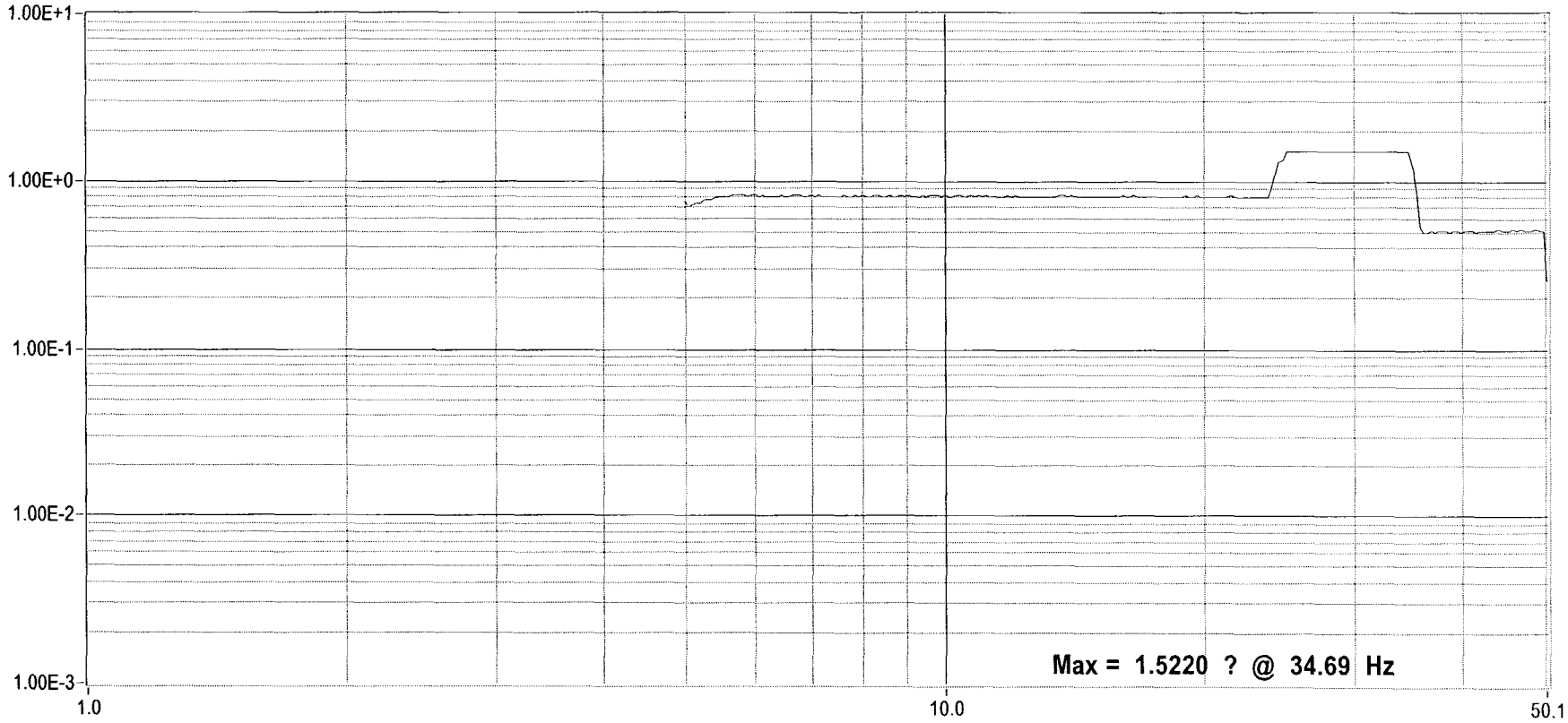
Channel #: 7 **Node Number:** 0007

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 AM

Frequency HZ

A5 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A5 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

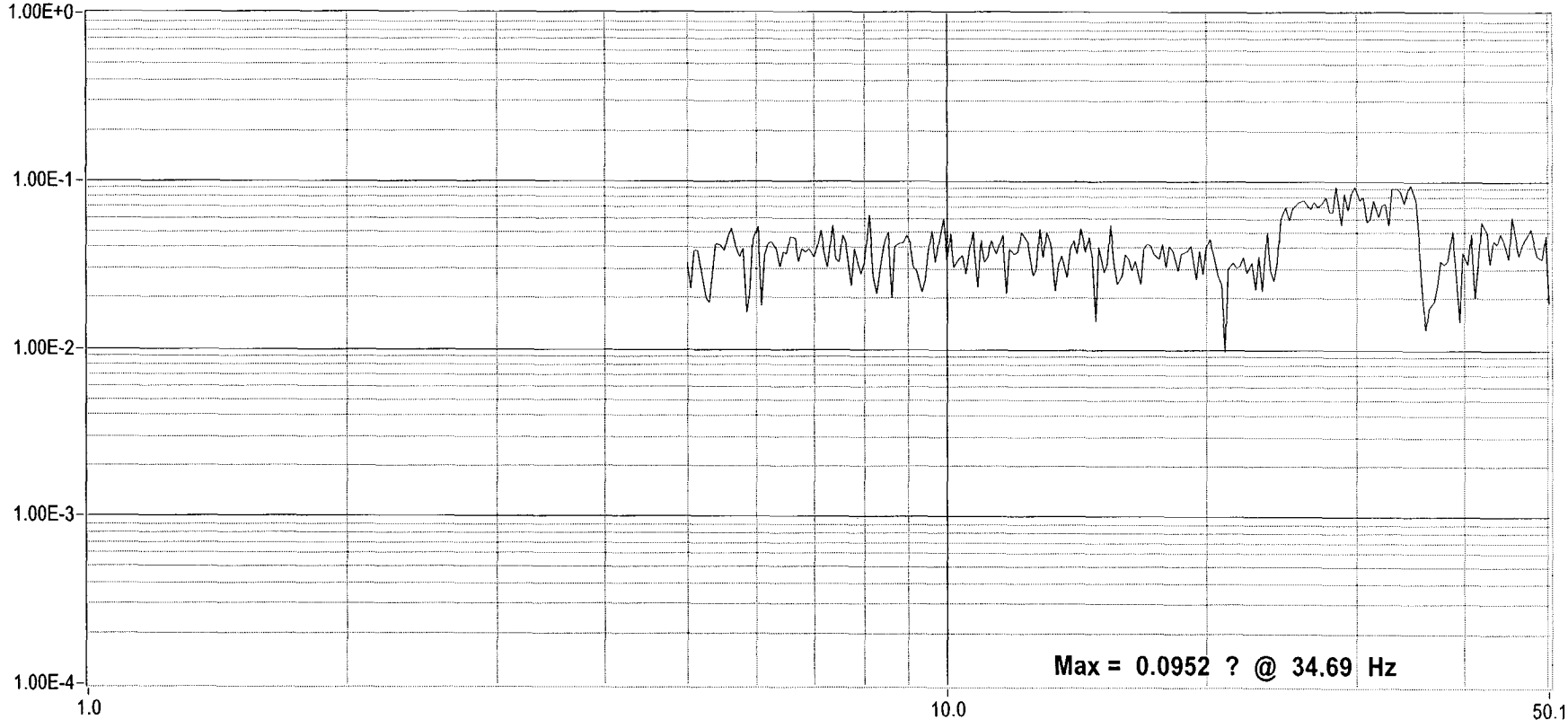
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 8 Node Number: 0008

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:10 AM

Frequency HZ

A5 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A5 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

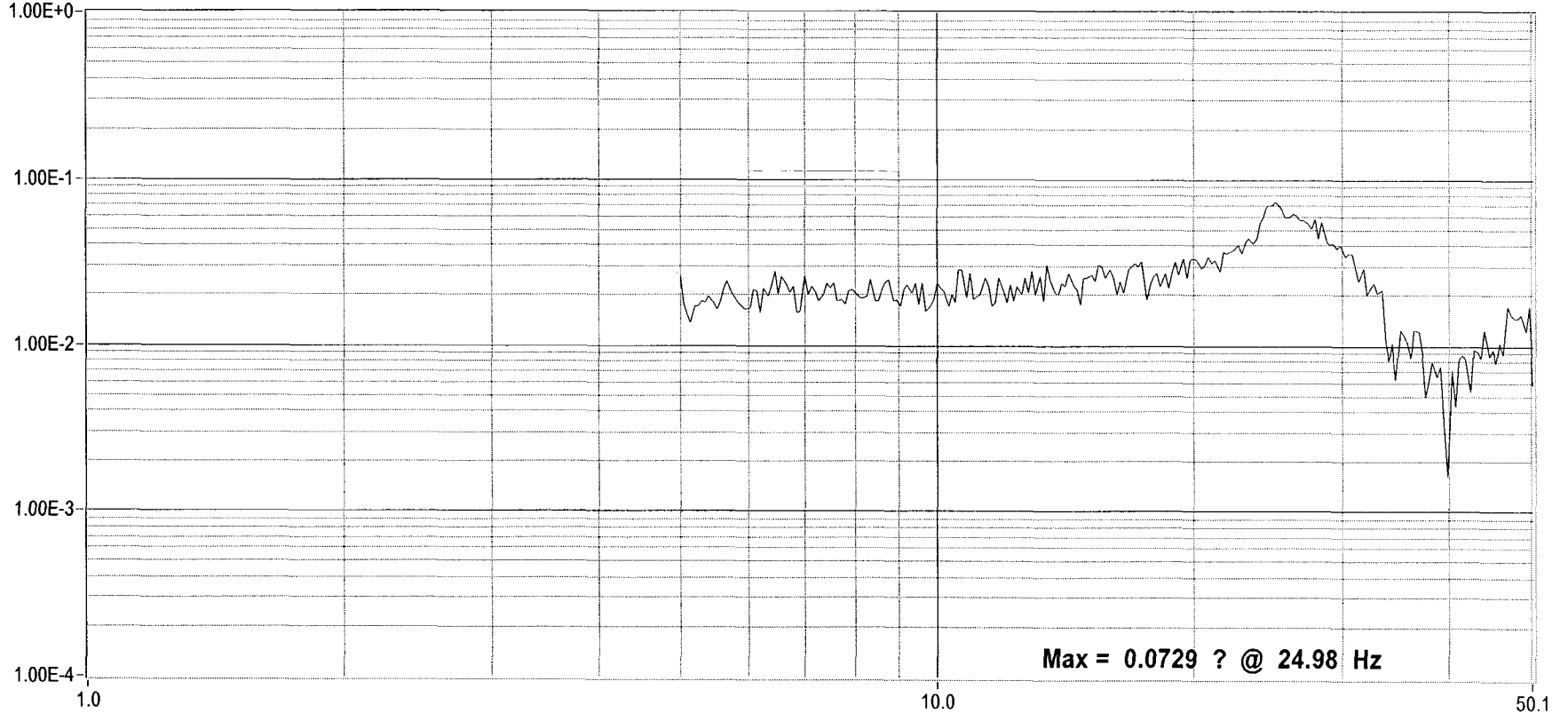
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 9 **Node Number:** 0009

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 AM

Frequency HZ

A5 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A6 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

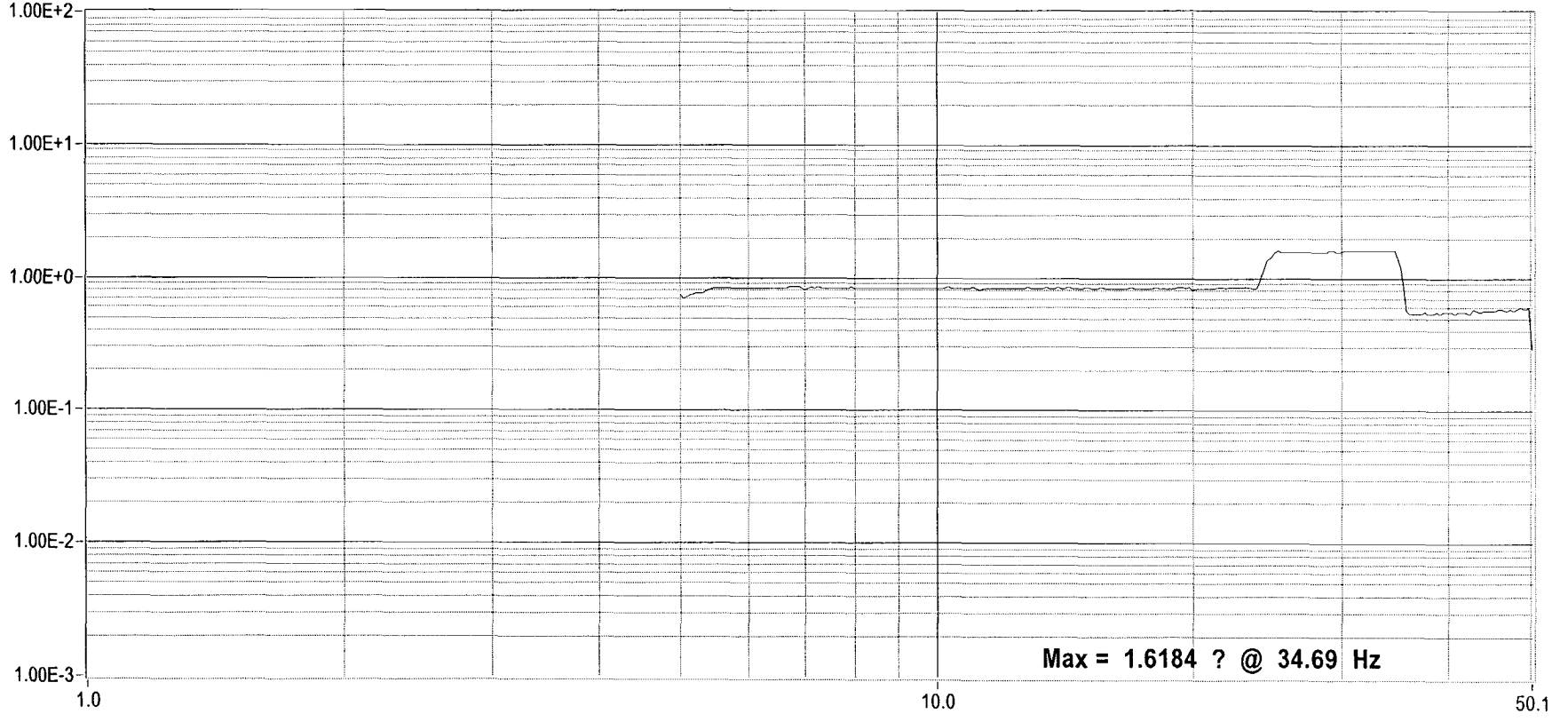
Channel #: 10 **Node Number:** 0010

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 AM

Frequency HZ

A6 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A6 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

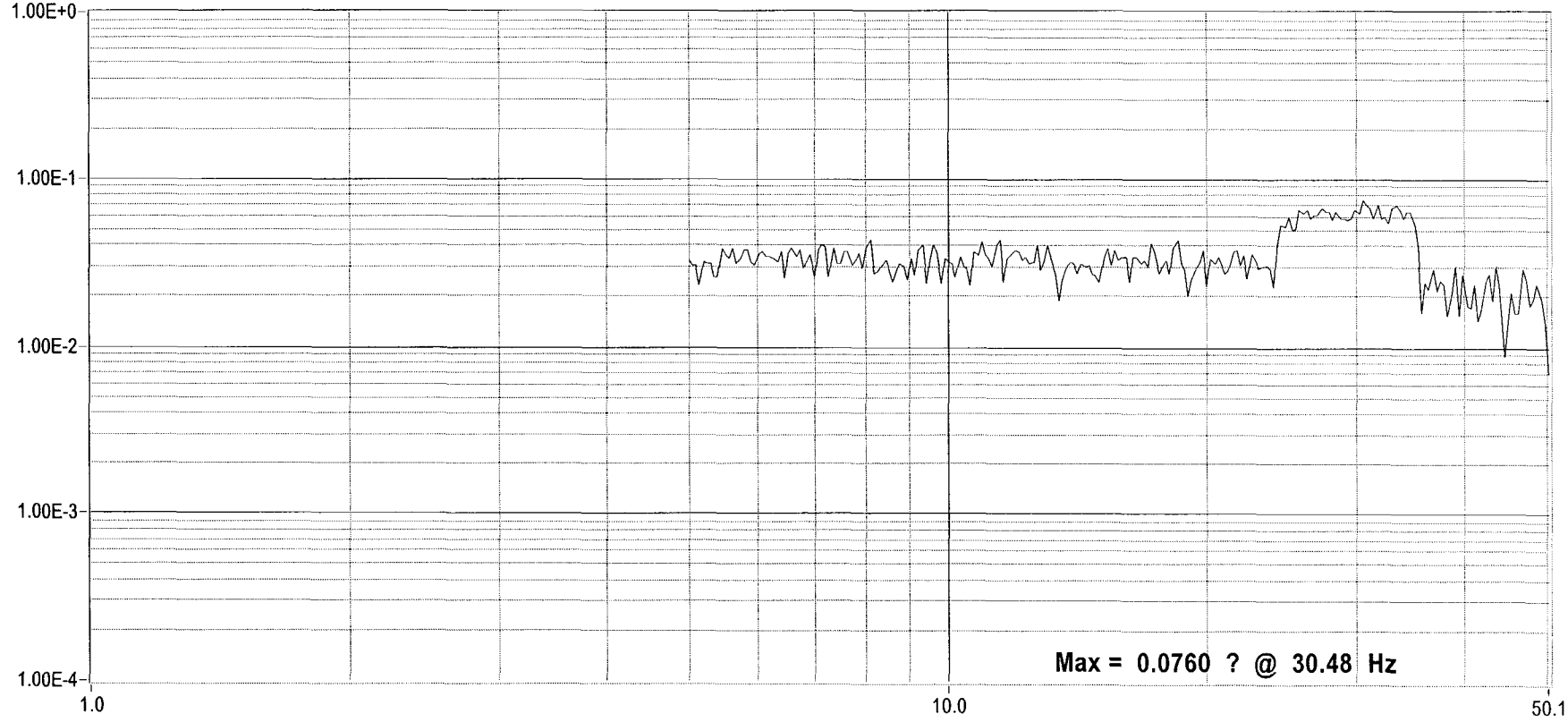
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 11 **Node Number:** 0011

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 AM

Frequency HZ

A6 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A6 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

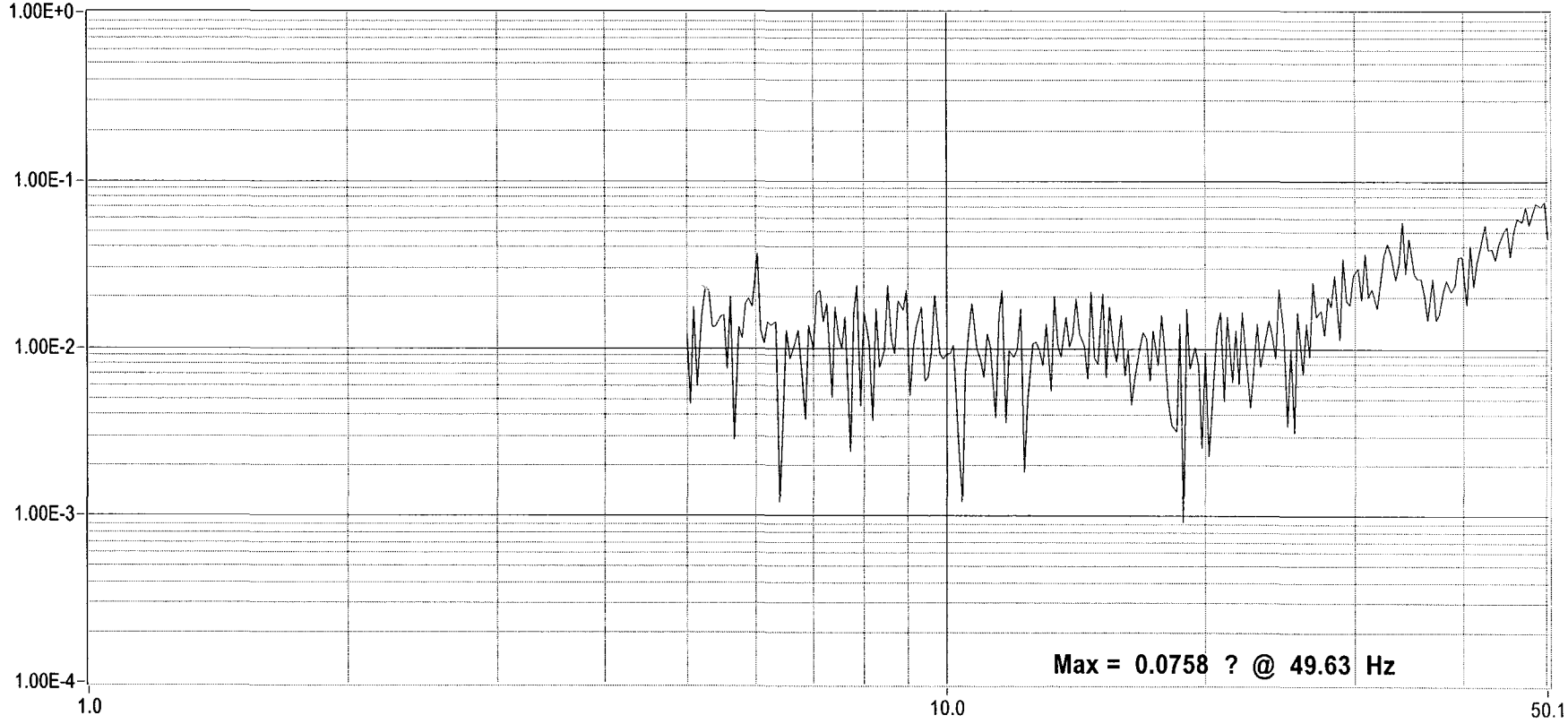
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 12 **Node Number:** 0012

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 AM

Frequency HZ

A6 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A7 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

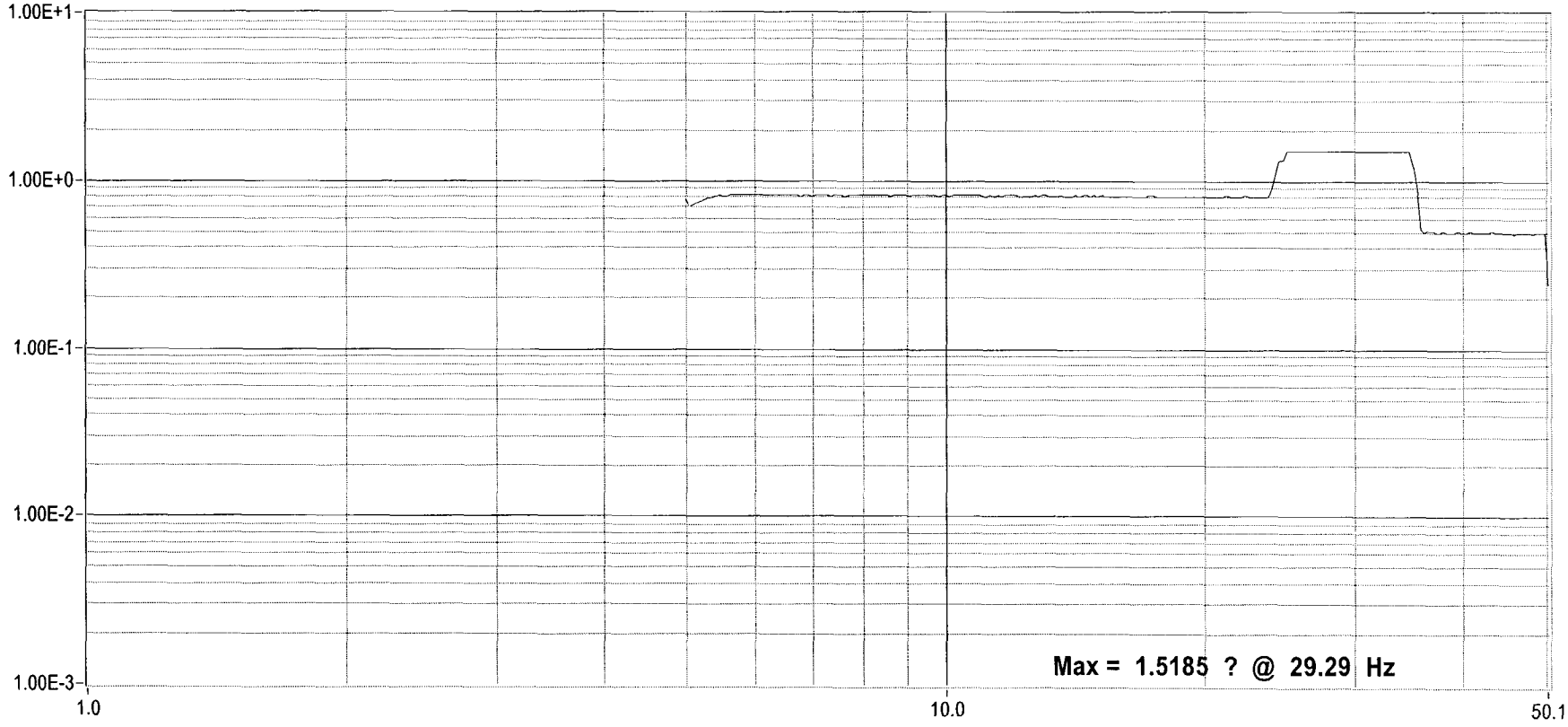
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 17 Node Number: 0017

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 AM

Frequency HZ

A7 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A7 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

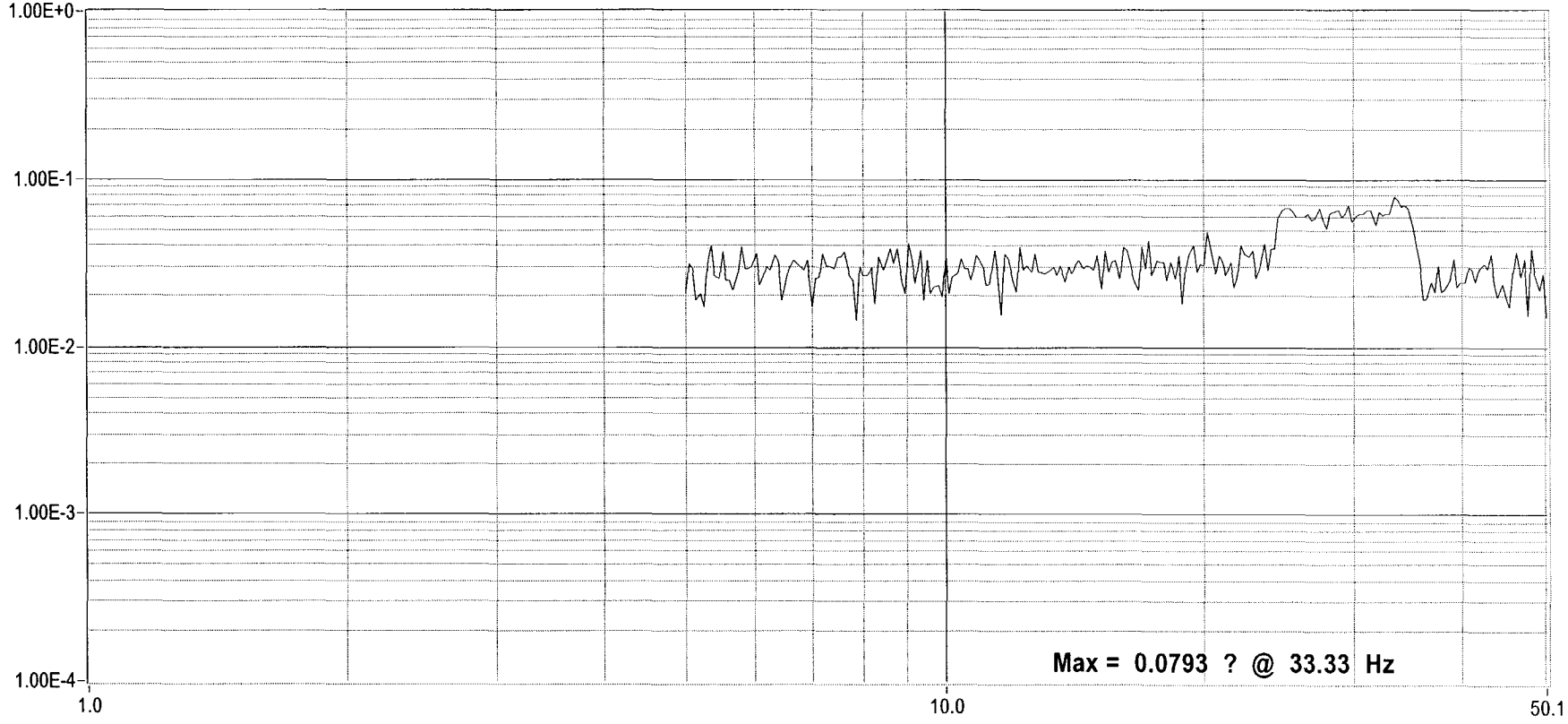
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 18 **Node Number:** 0018

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:11 AM

Frequency HZ

A7 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A7 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

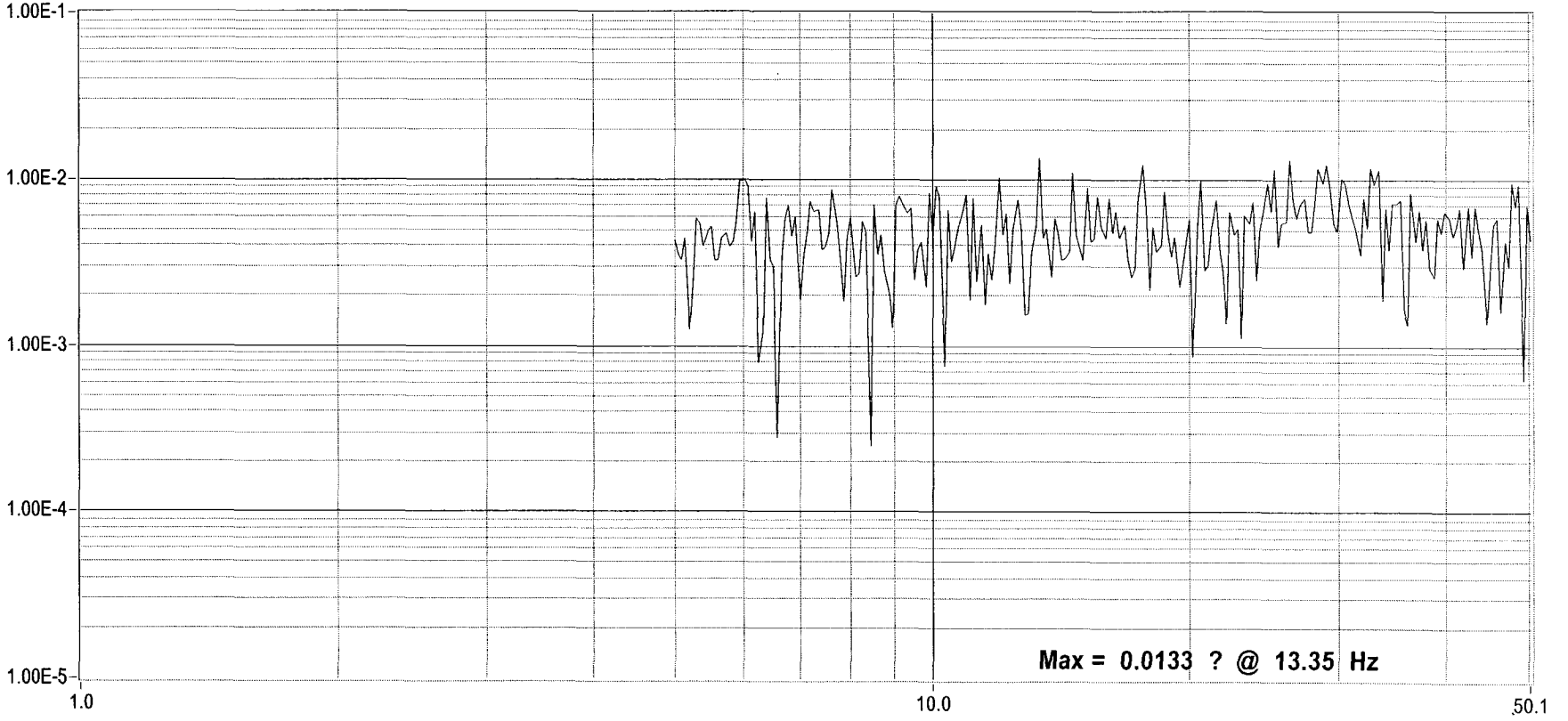
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 19 **Node Number:** 0019

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 AM

Frequency HZ

A7 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A8 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

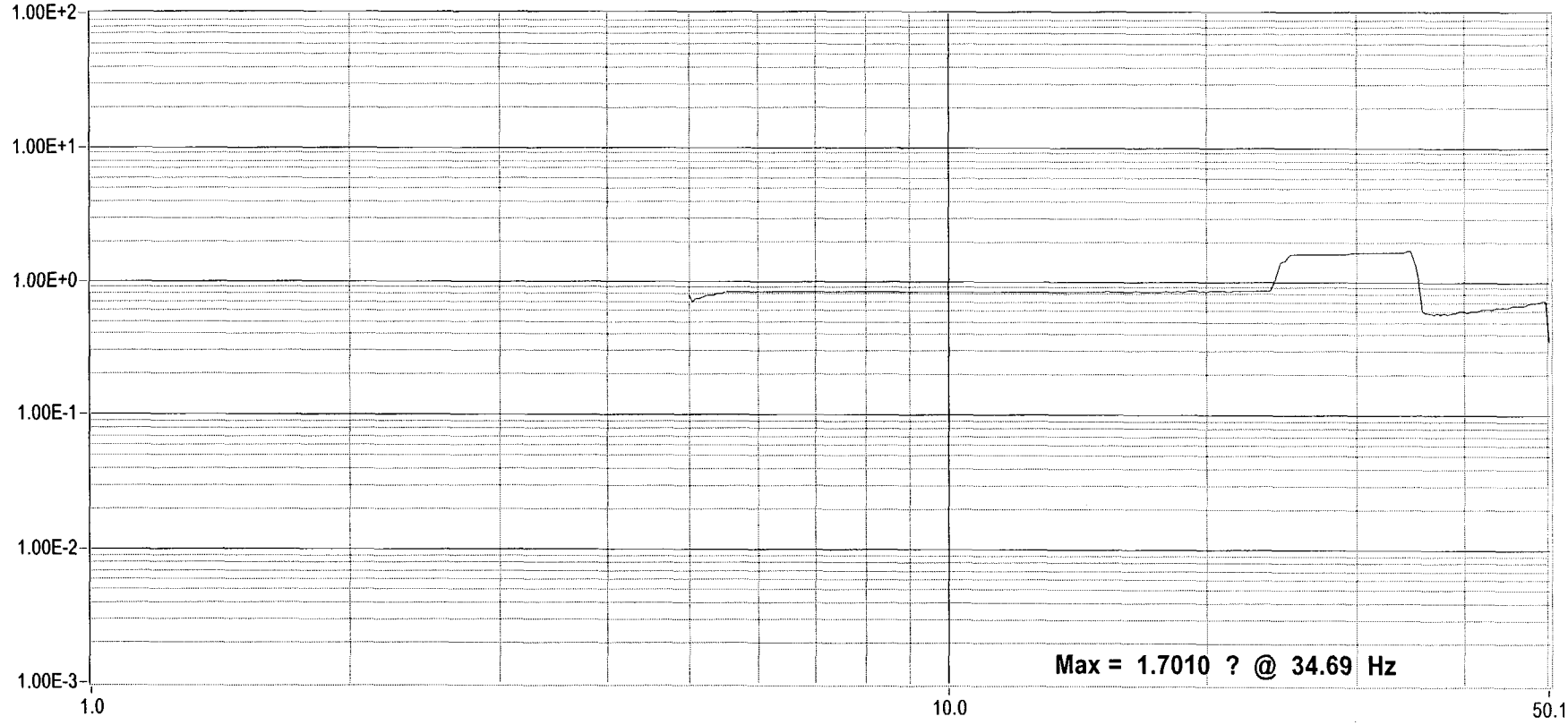
Channel #: 20 **Node Number:** 0020

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 AM

Frequency HZ

A8 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A8 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

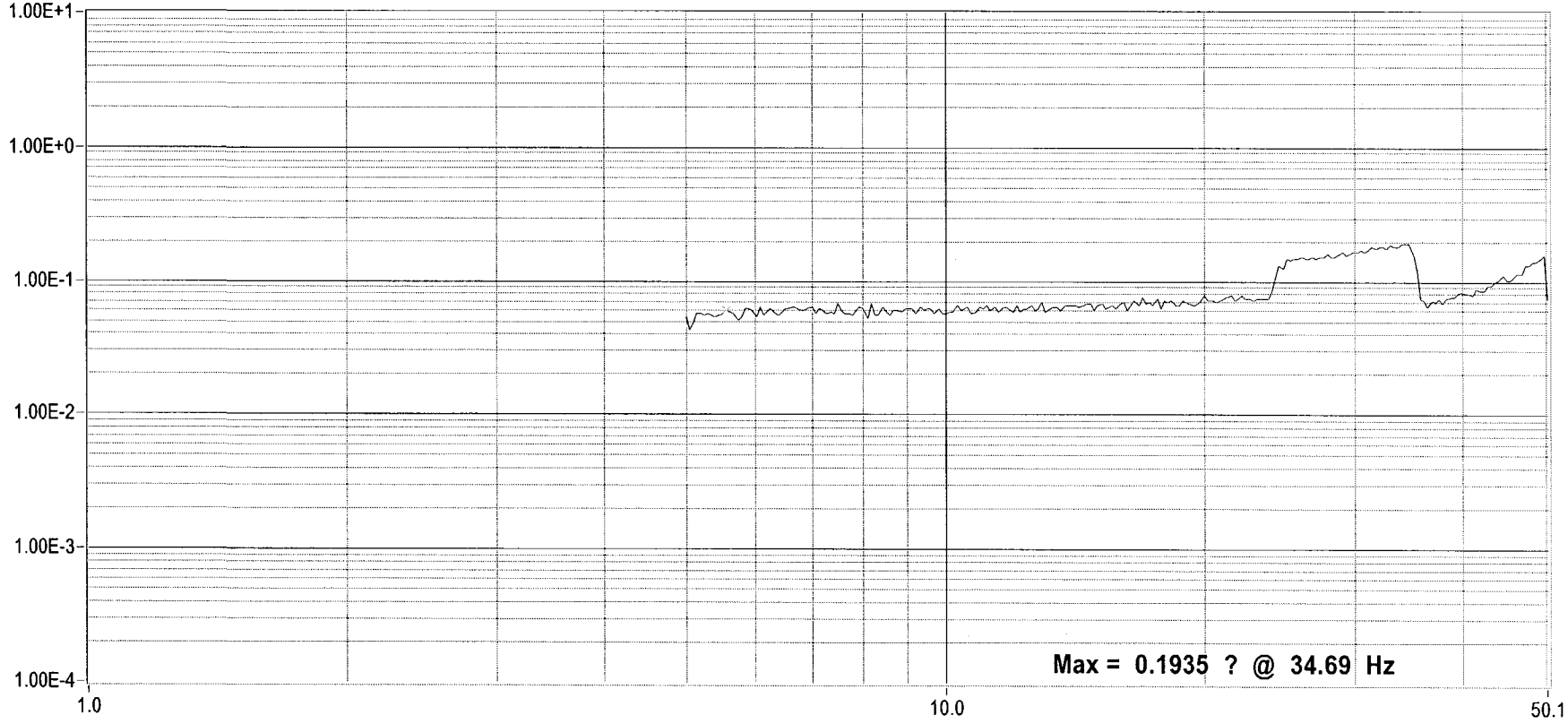
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 21 **Node Number:** 0021

Channel Description: 0.01034

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 AM

Frequency HZ

A8 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A8 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

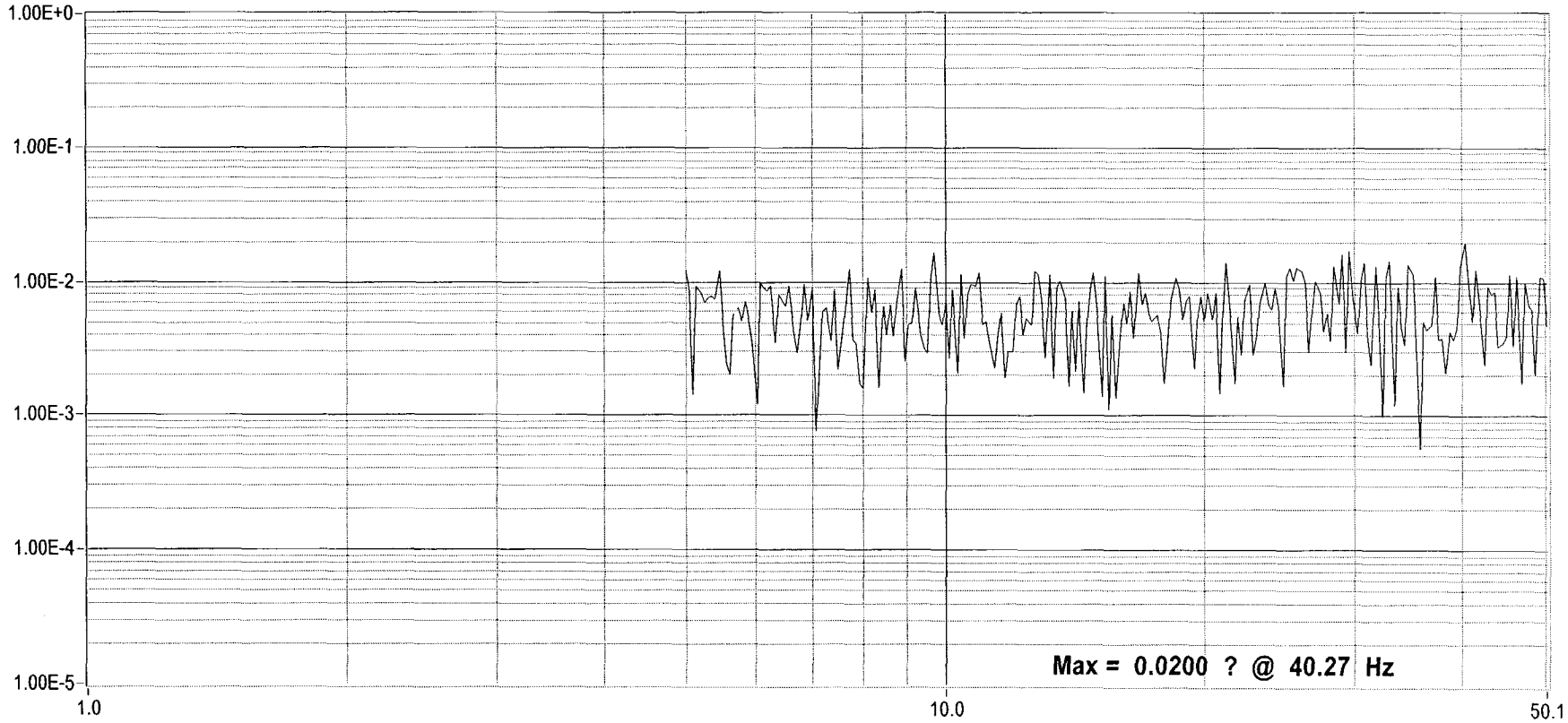
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 22 **Node Number:** 0022

Channel Description: 0.01029

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 AM

Frequency HZ

A8 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A9 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

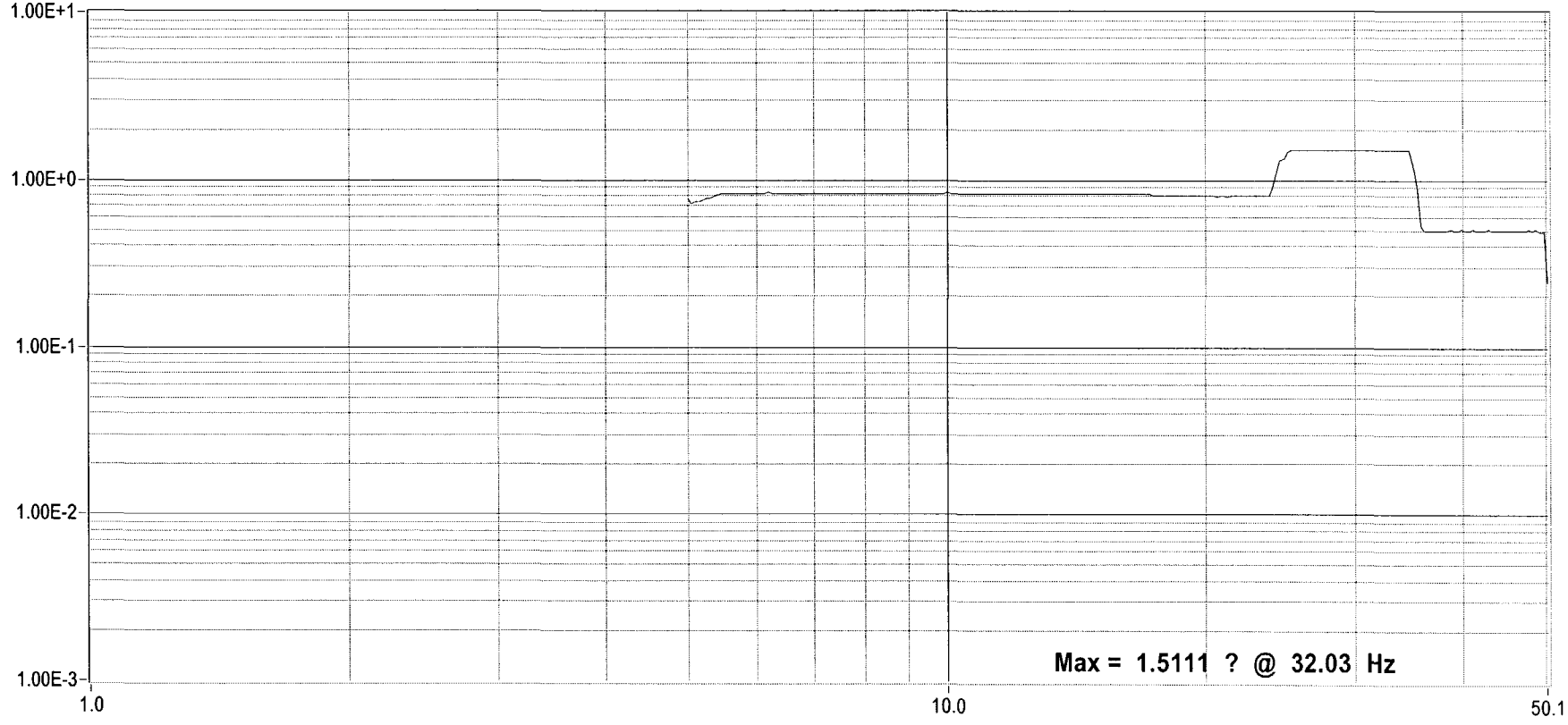
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 23 **Node Number:** 0023

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 AM

Frequency HZ

A9 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A9 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

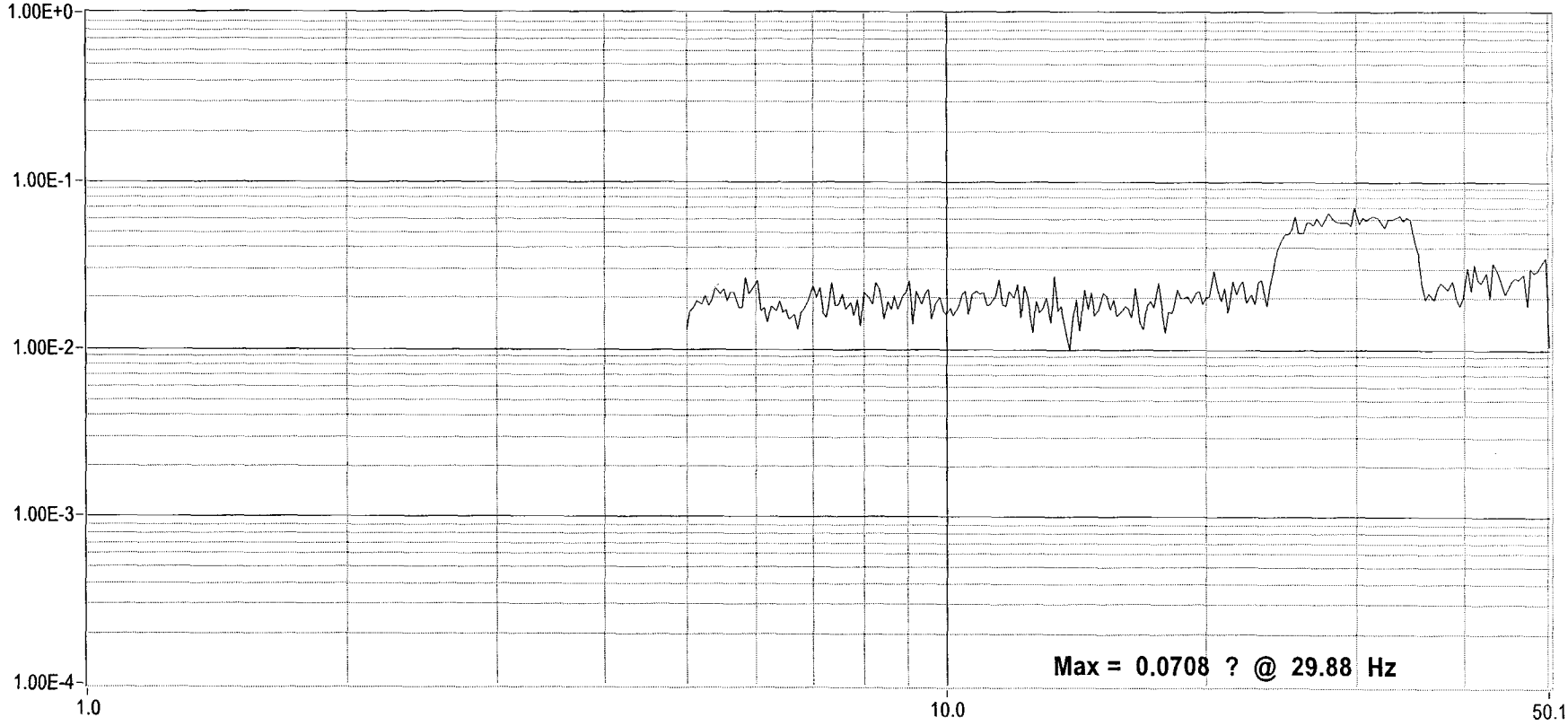
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 24 **Node Number:** 0024

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:12 AM

Frequency HZ

A9 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A9 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

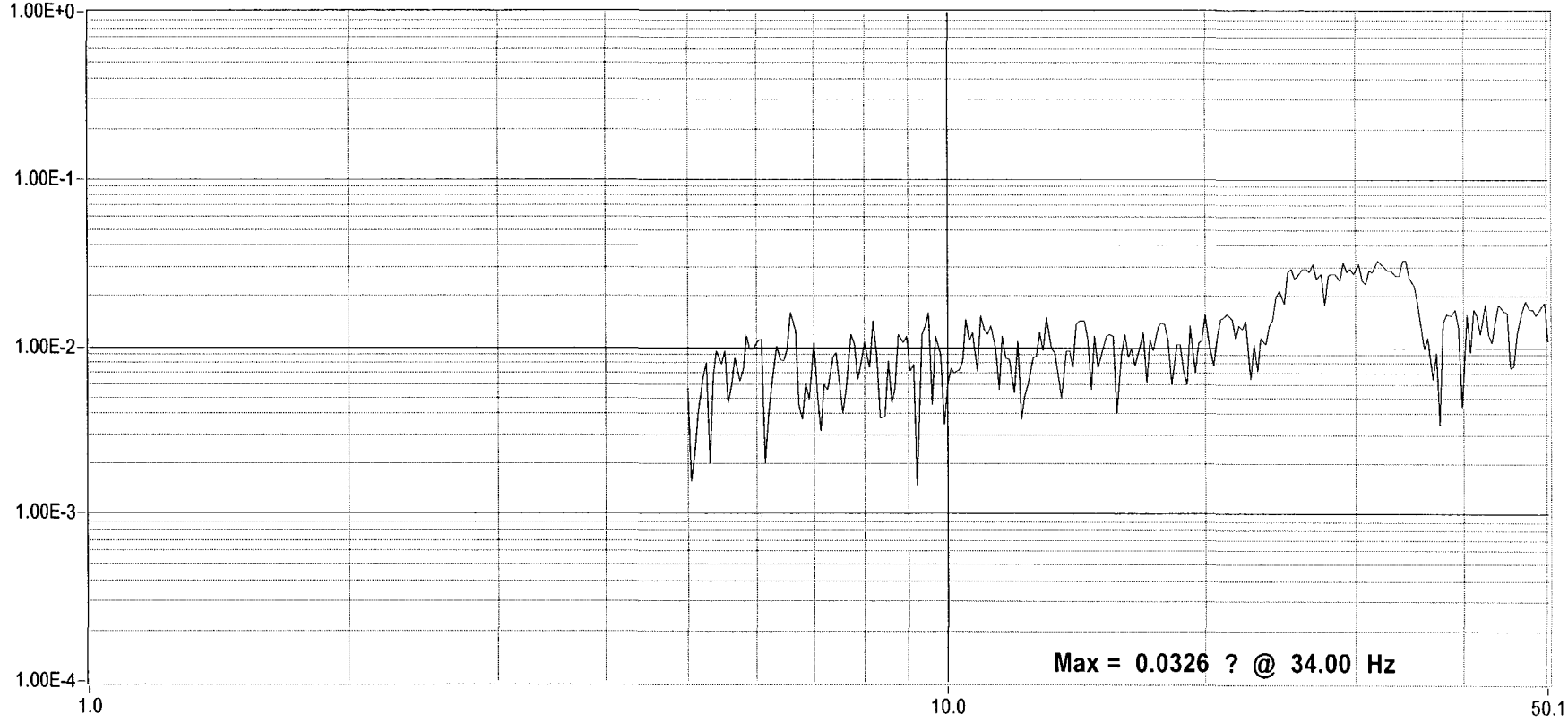
Channel #: 25 **Node Number:** 0025

Channel Description: na

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 AM

Frequency HZ

A9 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A10 X

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

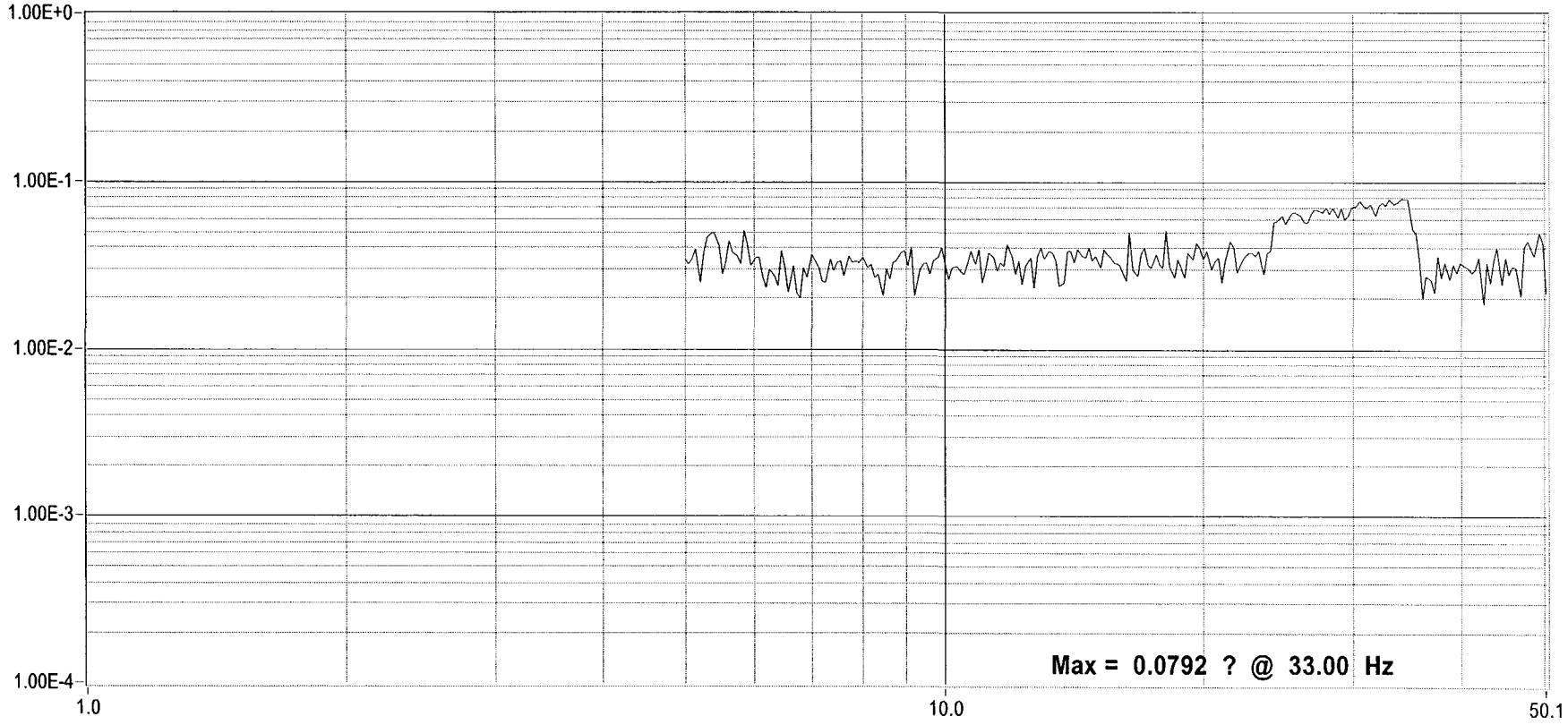
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 26 **Node Number:** 0026

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 AM

Frequency HZ

A10 X

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A10 Y

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

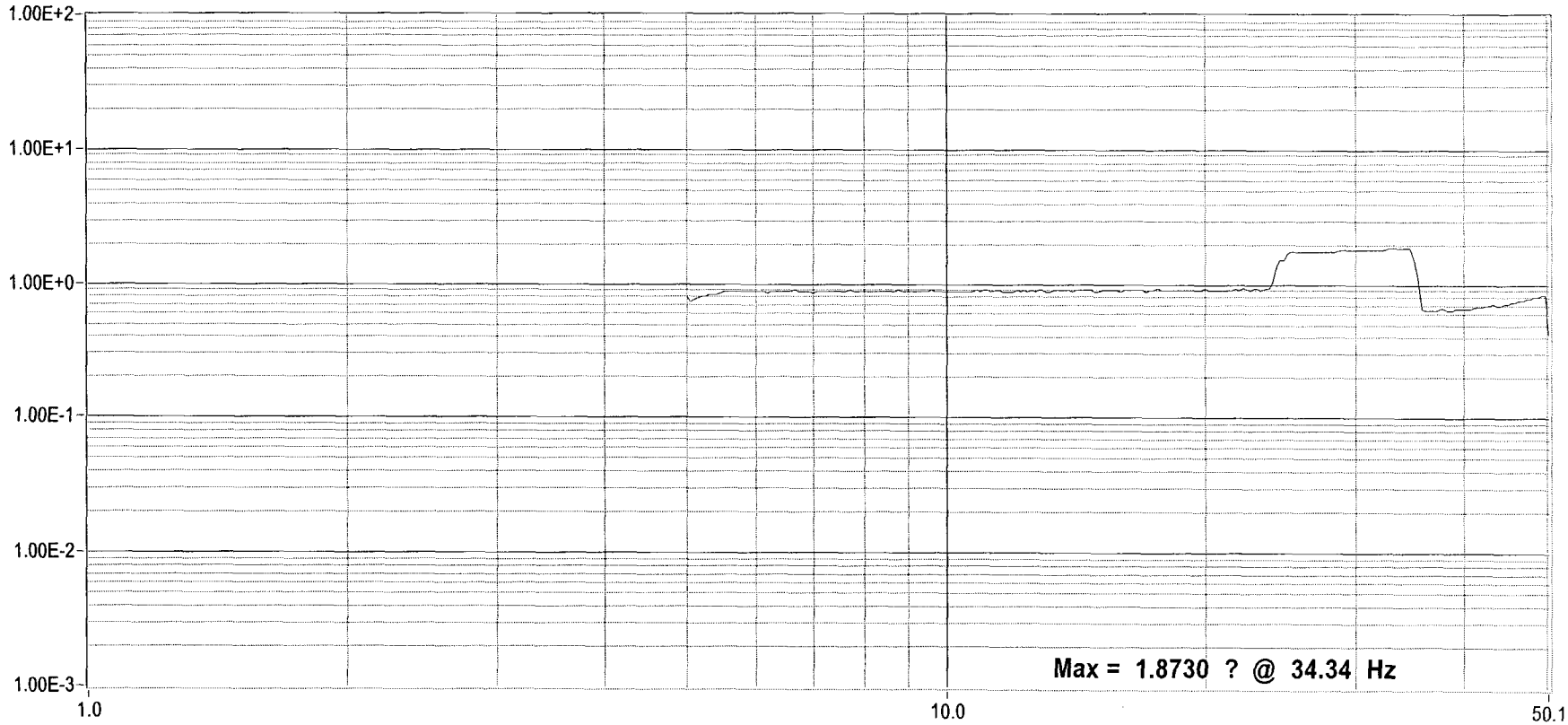
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 27 Node Number: 0027

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 AM

Frequency HZ

A10 Y

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A10 Z

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

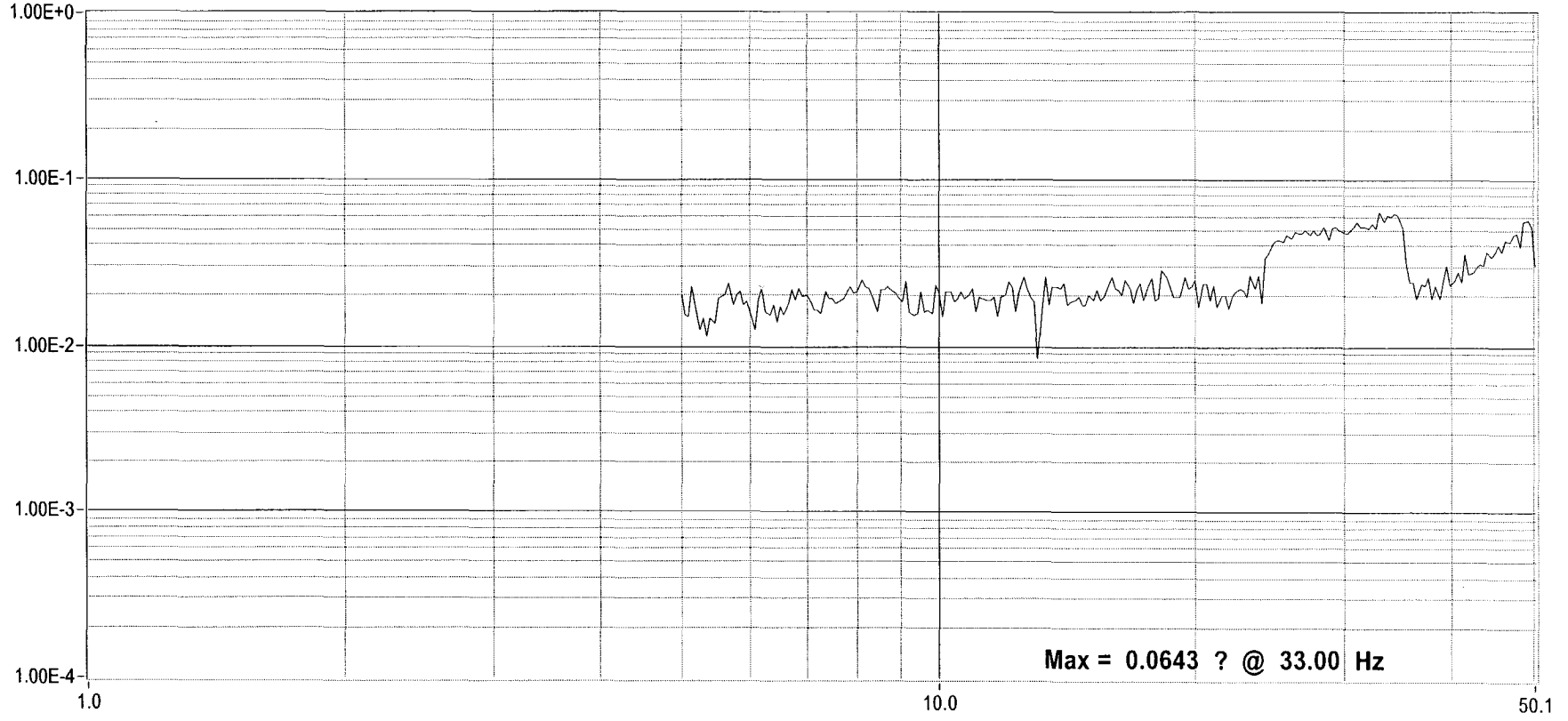
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 28 **Node Number:** 0028

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 AM

Frequency HZ

A10 Z

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

DRIVE

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

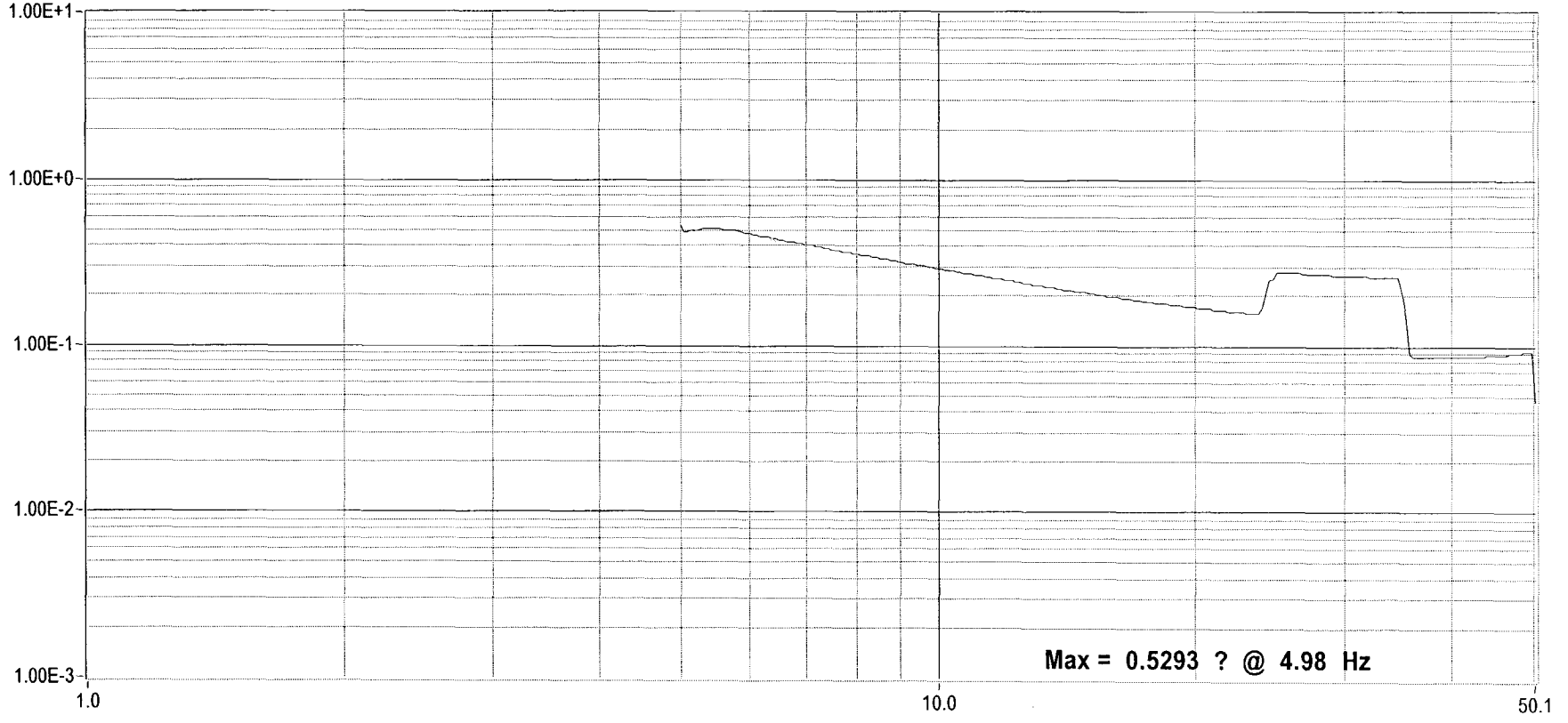
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 31 **Node Number:** 0031

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 AM

Frequency HZ

DRIVE

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

COLA

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

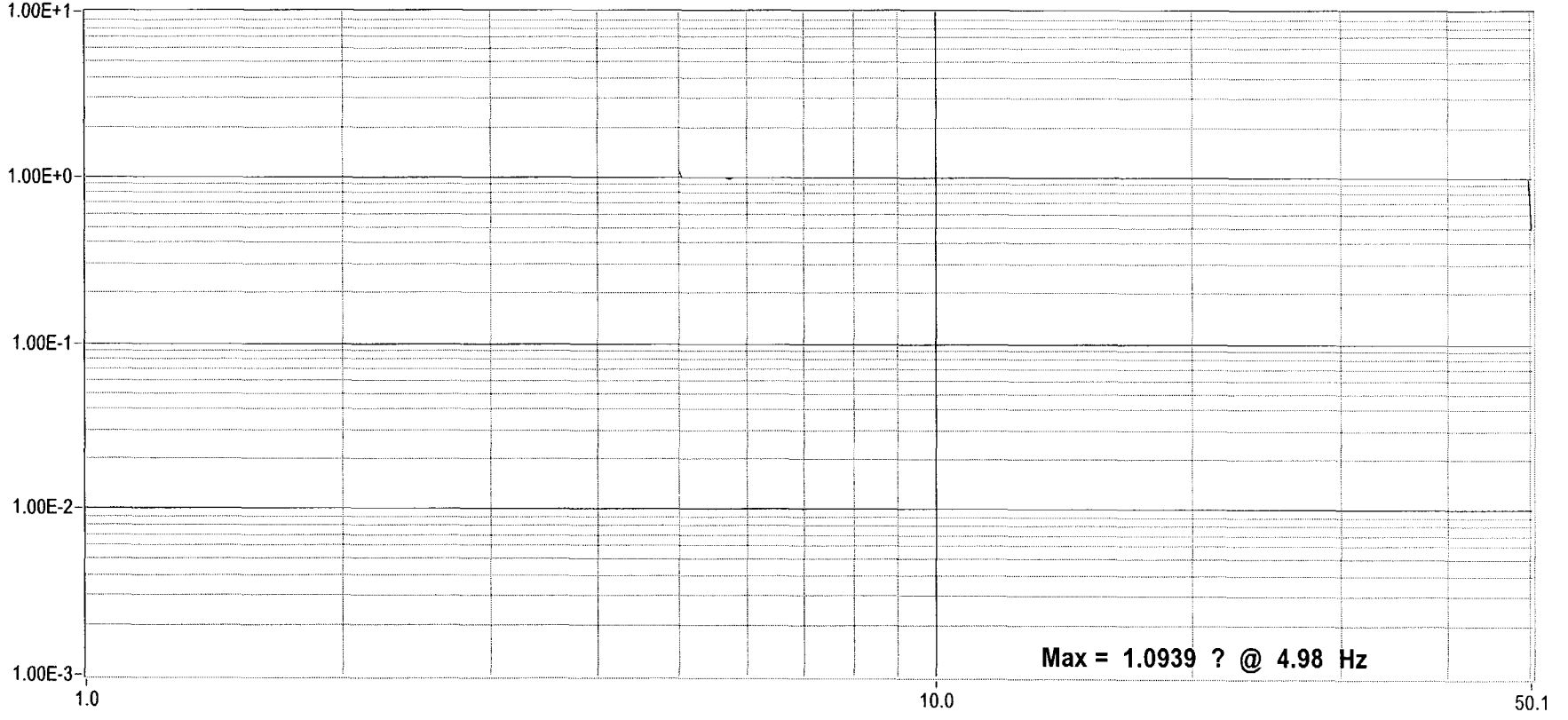
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 32 **Node Number:** 0032

Channel Description: na

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:13 AM

Frequency HZ

COLA

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A1X: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

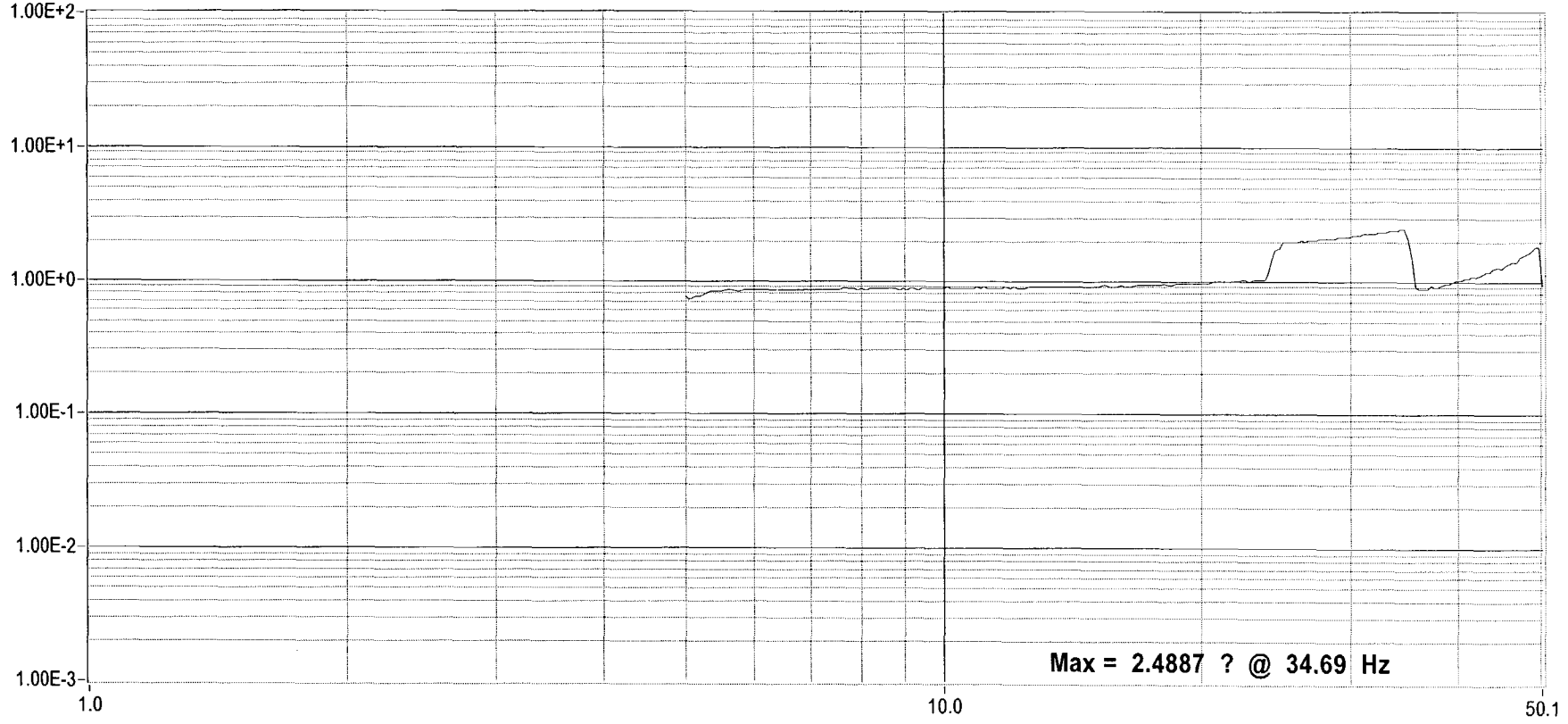
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 33 **Node Number:** 0033

Channel Description: BOX 3 CH 1 SN=AE71-1

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 AM

Frequency HZ

A1X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 34 **Node Number:** 0034

Channel Description: BOX 3 CH 2 SN=AC40

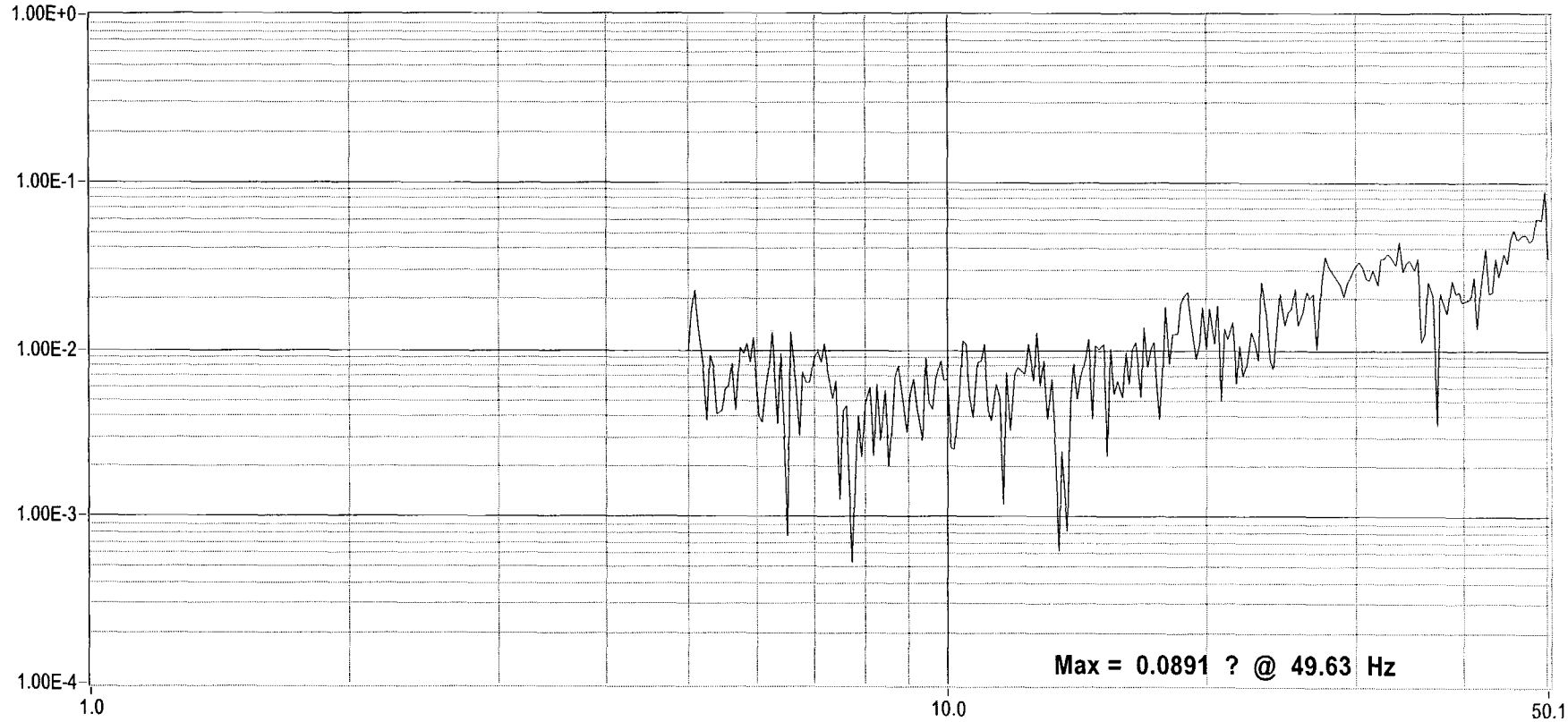
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A1Y: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 AM

Frequency HZ

A1Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 35 **Node Number:** 0035

Channel Description: BOX 3 CH 3 SN=AD72

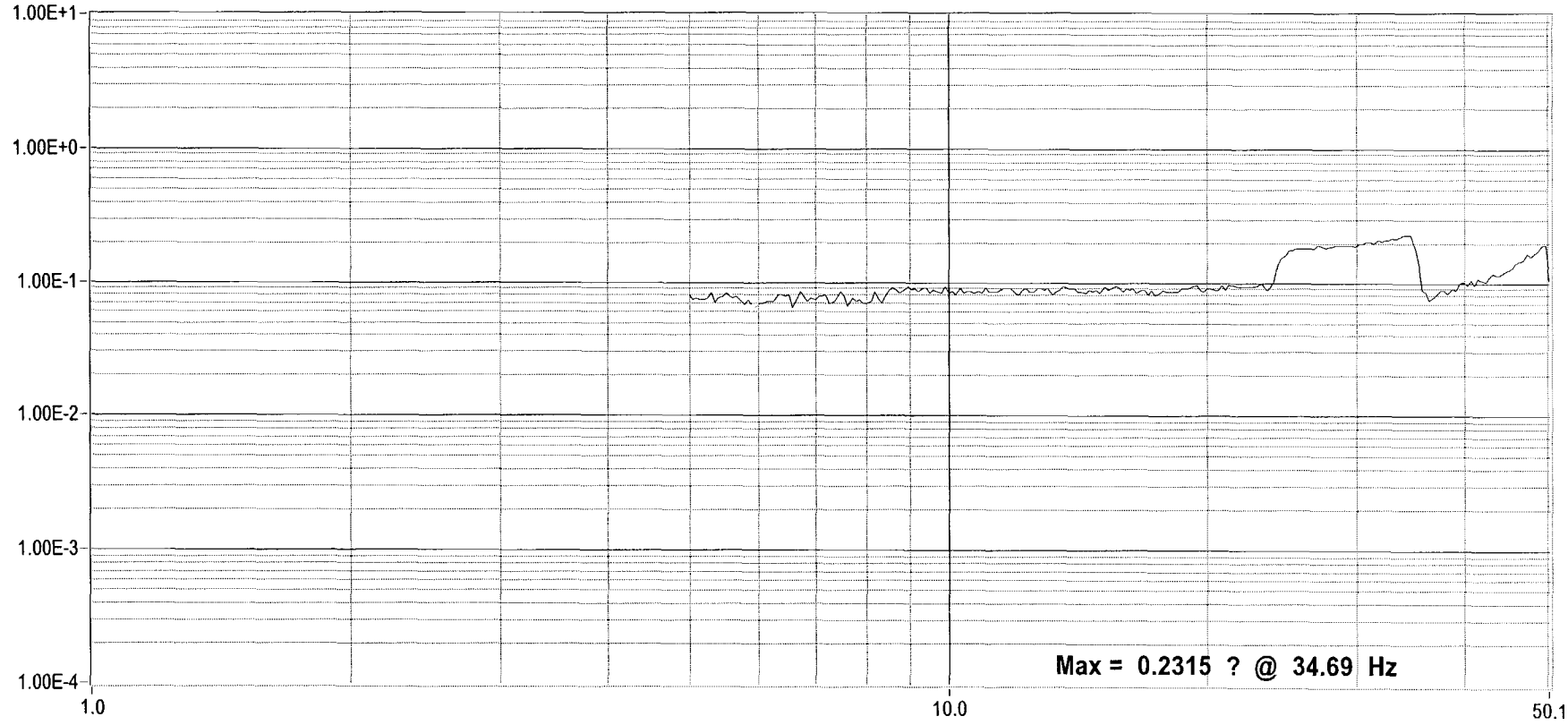
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A1Z: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 AM

Frequency HZ

A1Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 36 **Node Number:** 0036

Channel Description: BOX 3 CH 4 SN=AF35

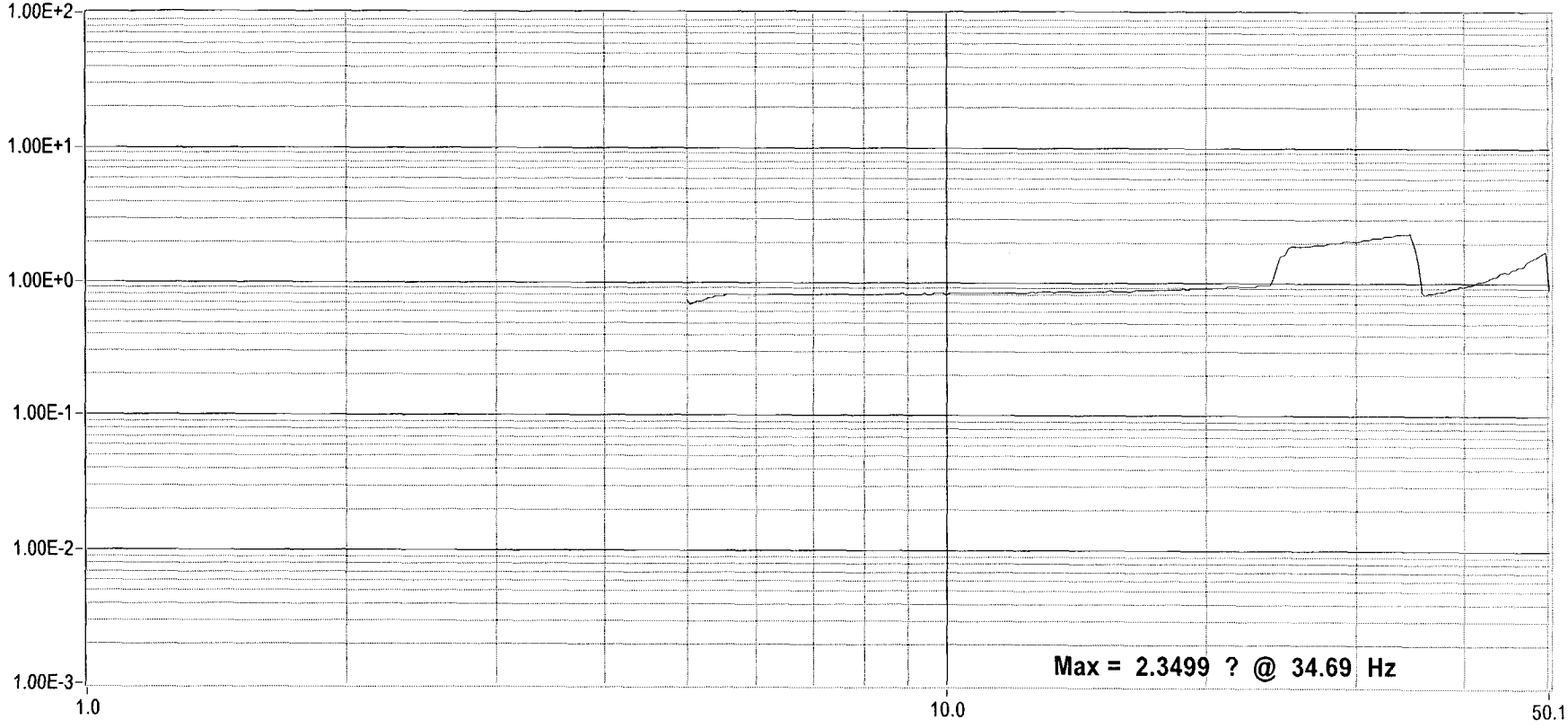
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 5:53:53

A1RX: +Y PANEL UPPER

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:14 AM

Frequency HZ

A1RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A1RY: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

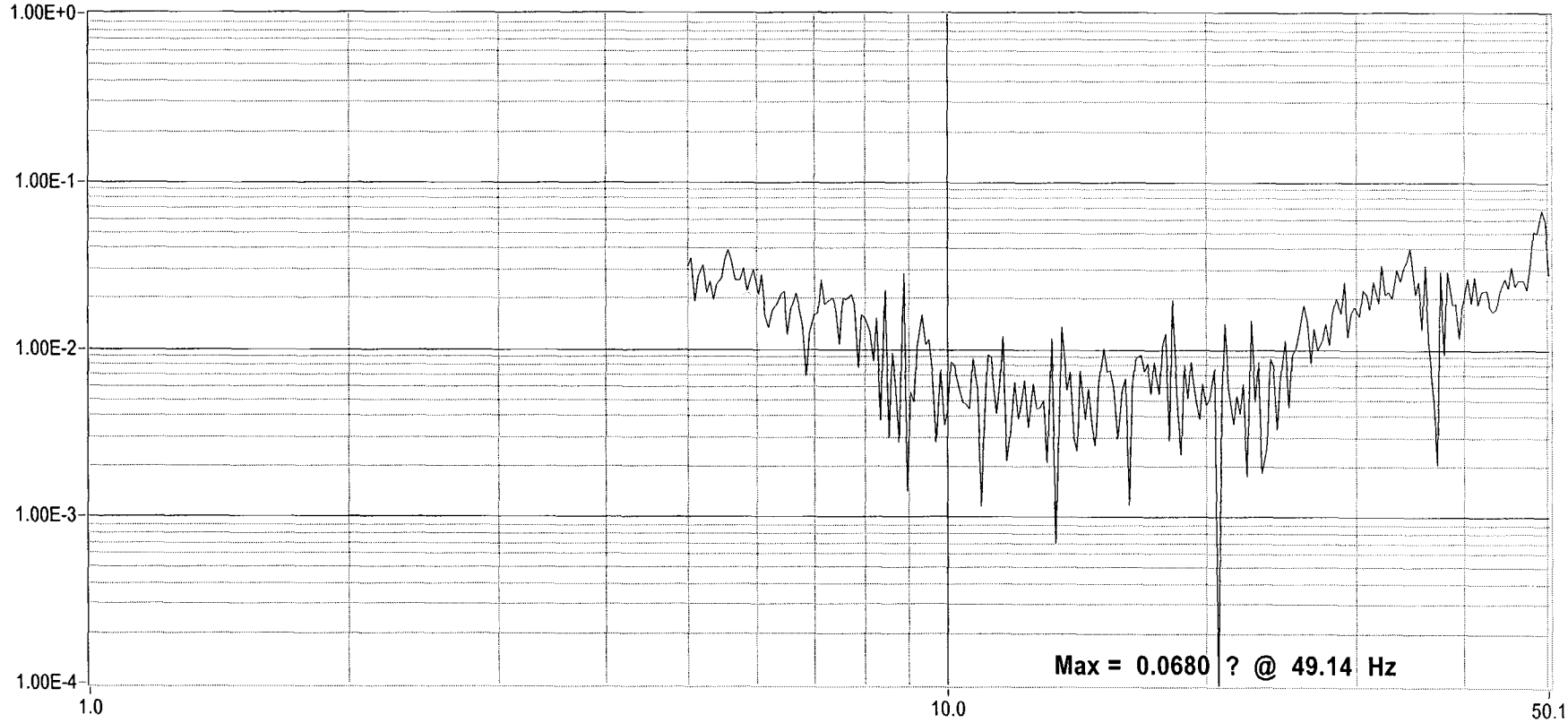
Channel #: 37 **Node Number:** 0037

Channel Description: BOX 3 CH 5 SN=AB88

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 AM

Frequency HZ

A1RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A1RZ: +Y PANEL UPPER

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

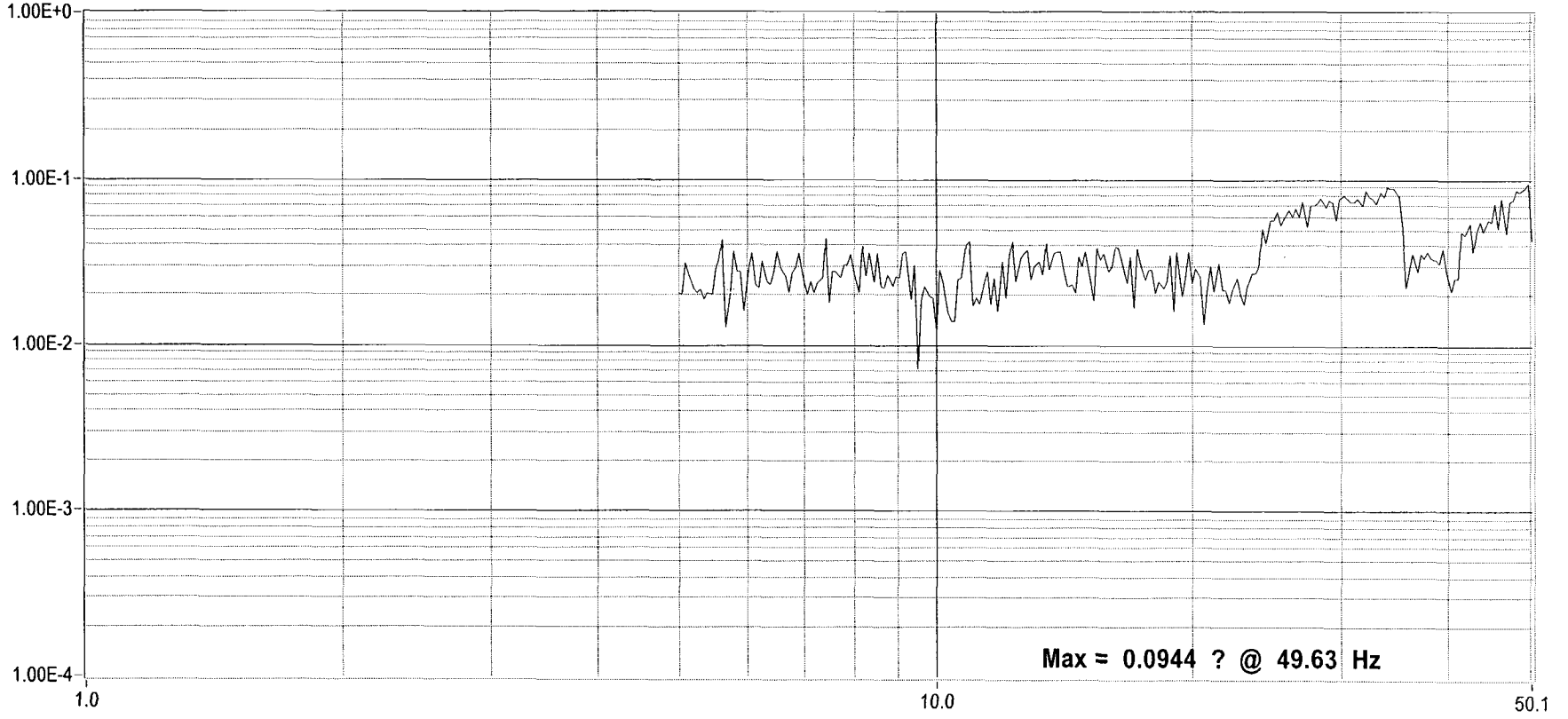
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 38 **Node Number:** 0038

Channel Description: BOX 3 CH 6 SN=AG51

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:14 AM

Frequency HZ

A1RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 39 **Node Number:** 0039

Channel Description: BOX 3 CH 7 SN=AK10

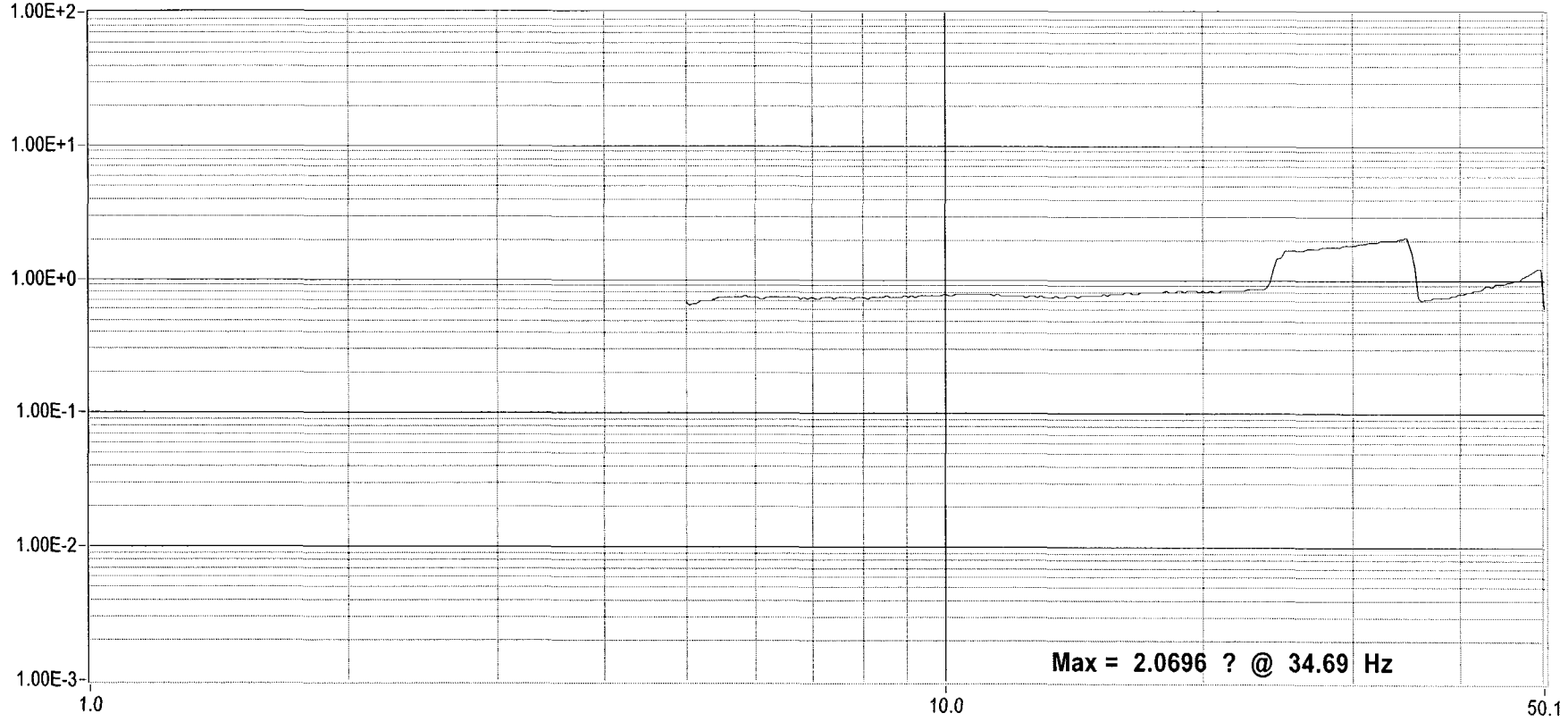
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A2X: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 AM

Frequency HZ

A2X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 40 **Node Number:** 0040

Channel Description: BOX 3 CH 8 SN=AB06

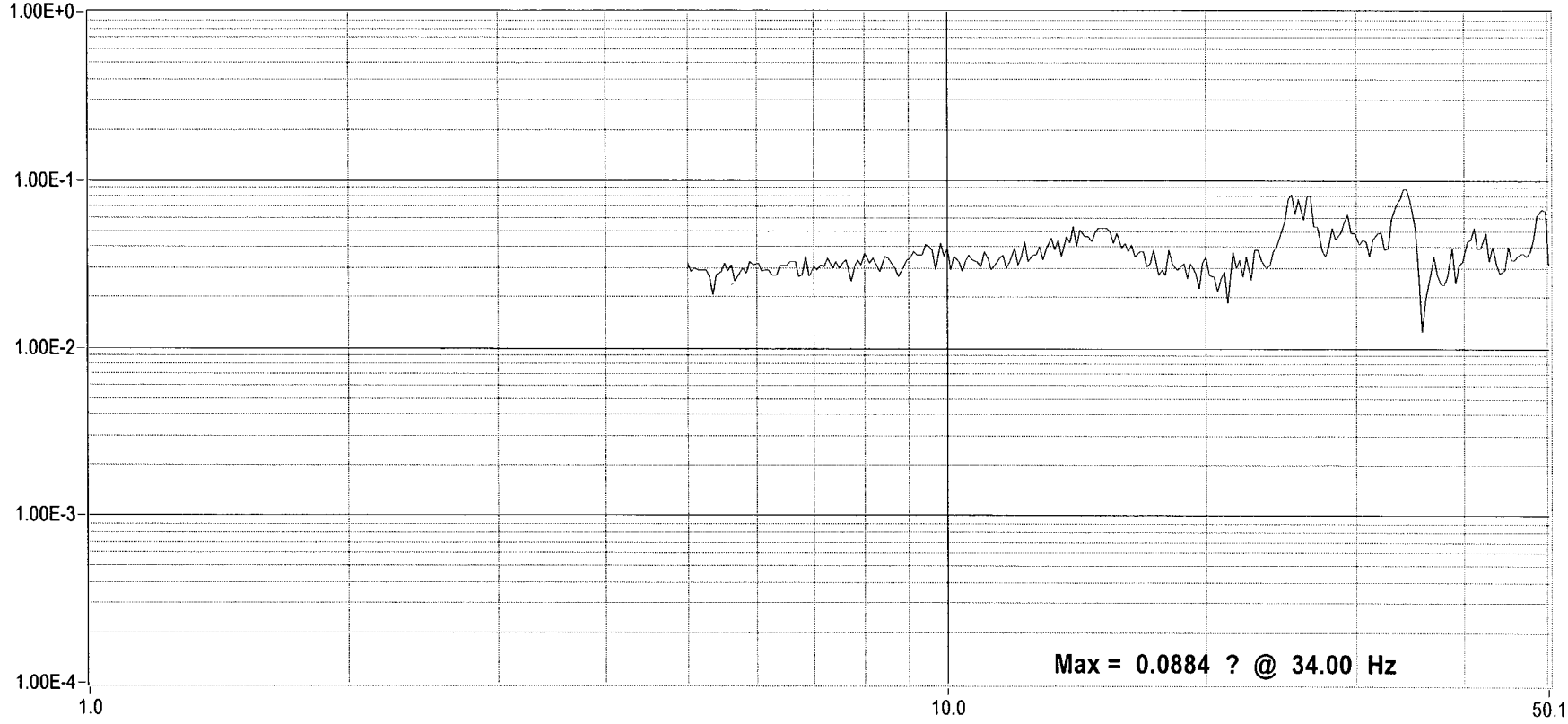
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A2Y: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 AM

Frequency HZ

A2Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 41 **Node Number:** 0041

Channel Description: BOX 3 CH 9 SN=AF28

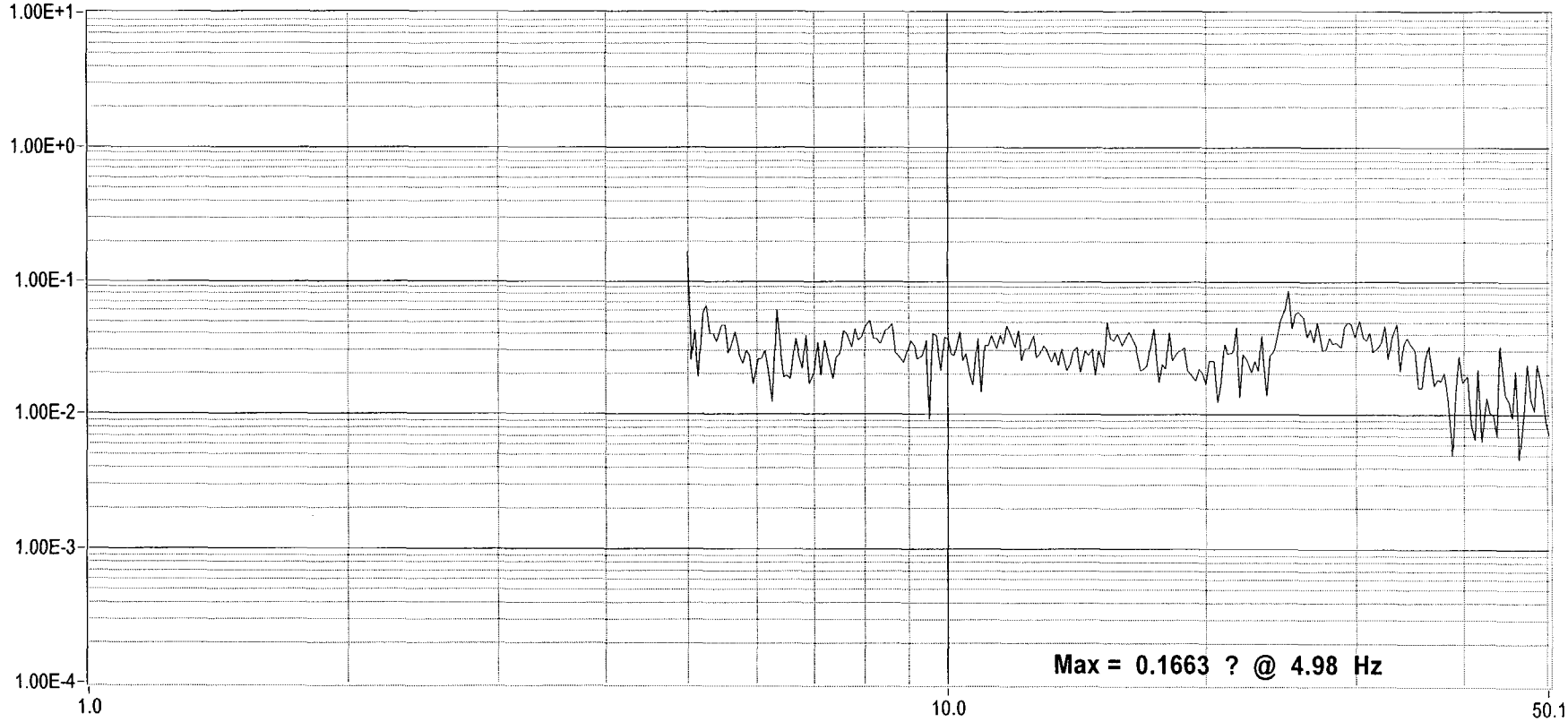
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A2Z: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 AM

Frequency HZ

A2Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 42 **Node Number:** 0042

Channel Description: BOX 3 CH 10 SN=AJ30

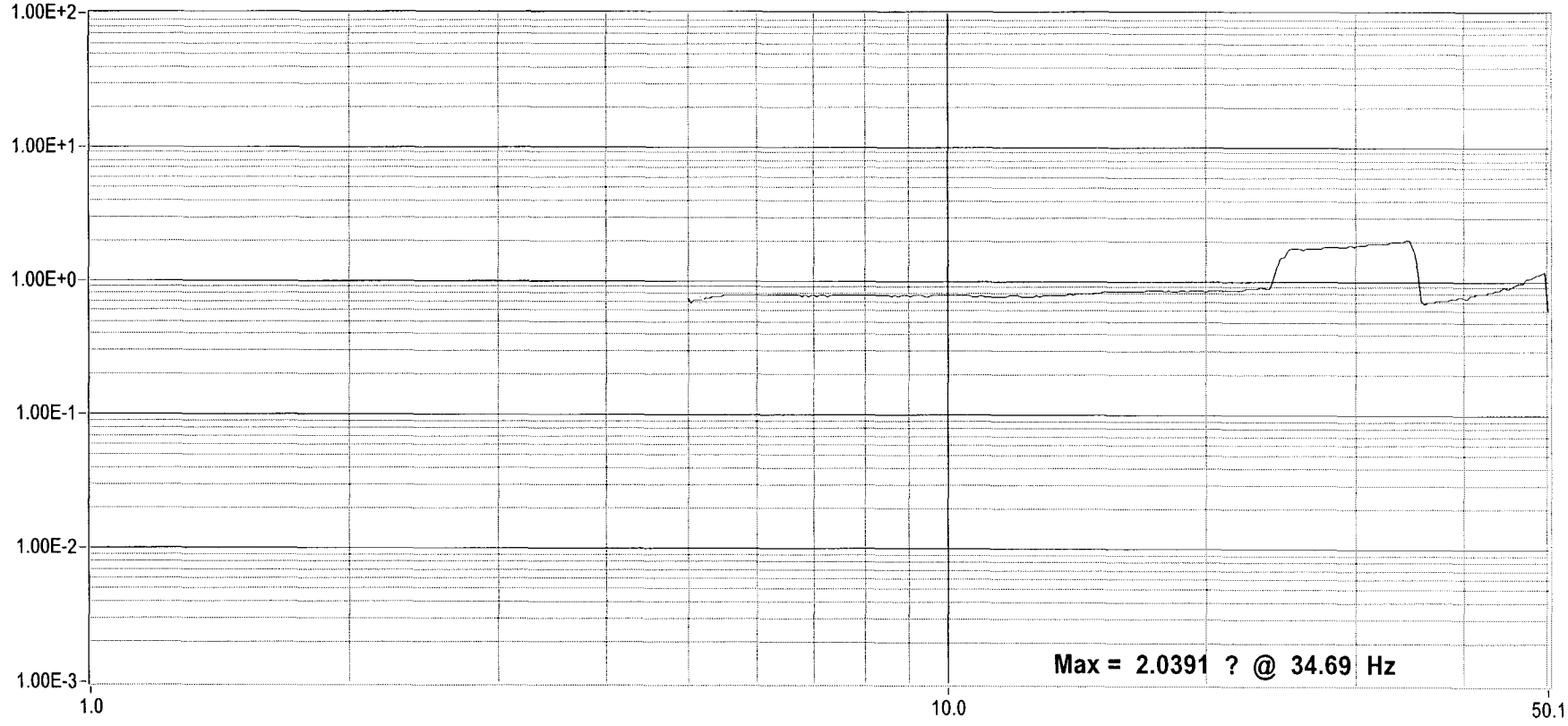
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A2RX: +Y PANEL LOWER TEU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 AM

Frequency HZ

A2RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A2RY: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

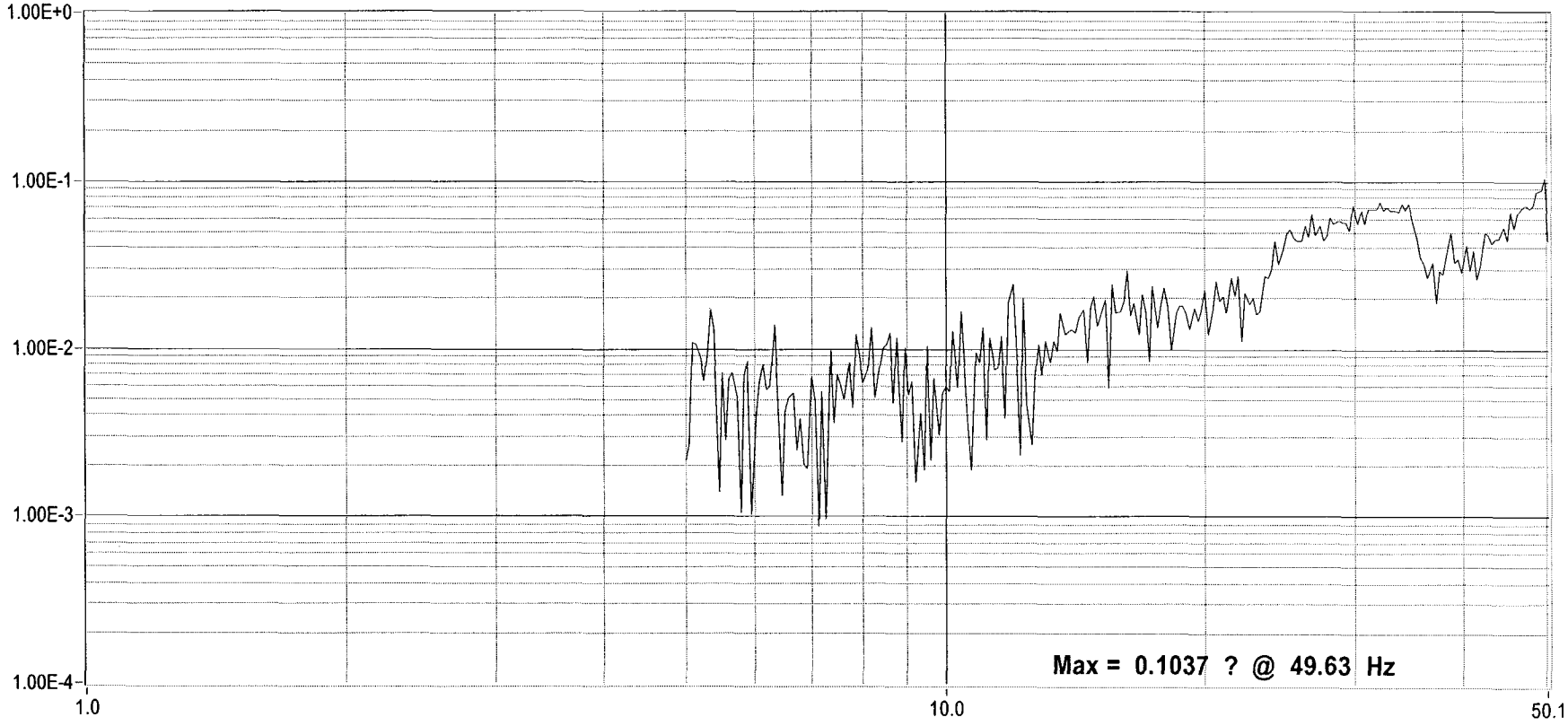
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 43 **Node Number:** 0043

Channel Description: BOX 3 CH 11 SN=AE60

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 AM

Frequency HZ

A2RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A2RZ: +Y PANEL LOWER TEU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

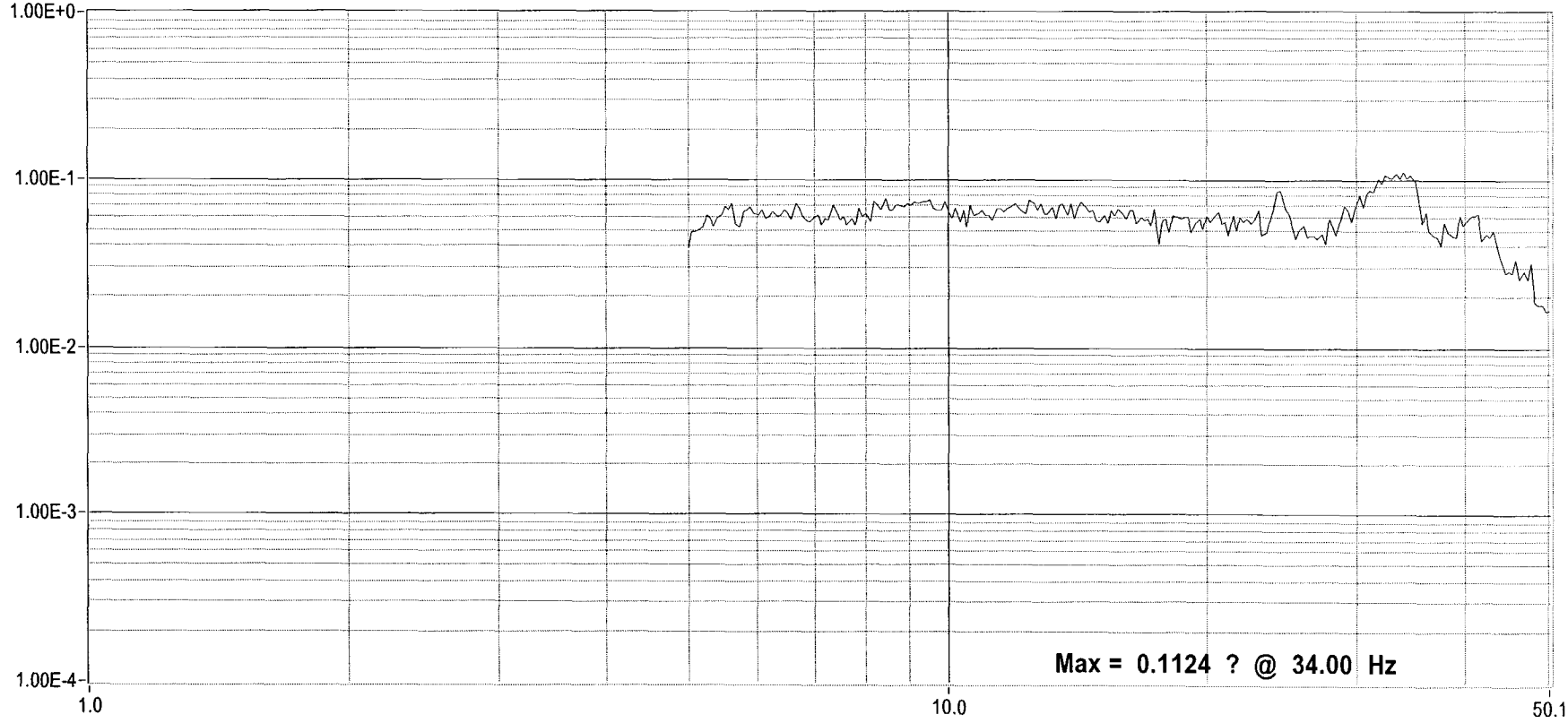
Channel #: 44 **Node Number:** 0044

Channel Description: BOX 3 CH 12 SN=AG01

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:15 AM

Frequency HZ

A2RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A3X: +X PANEL UPPER CCU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

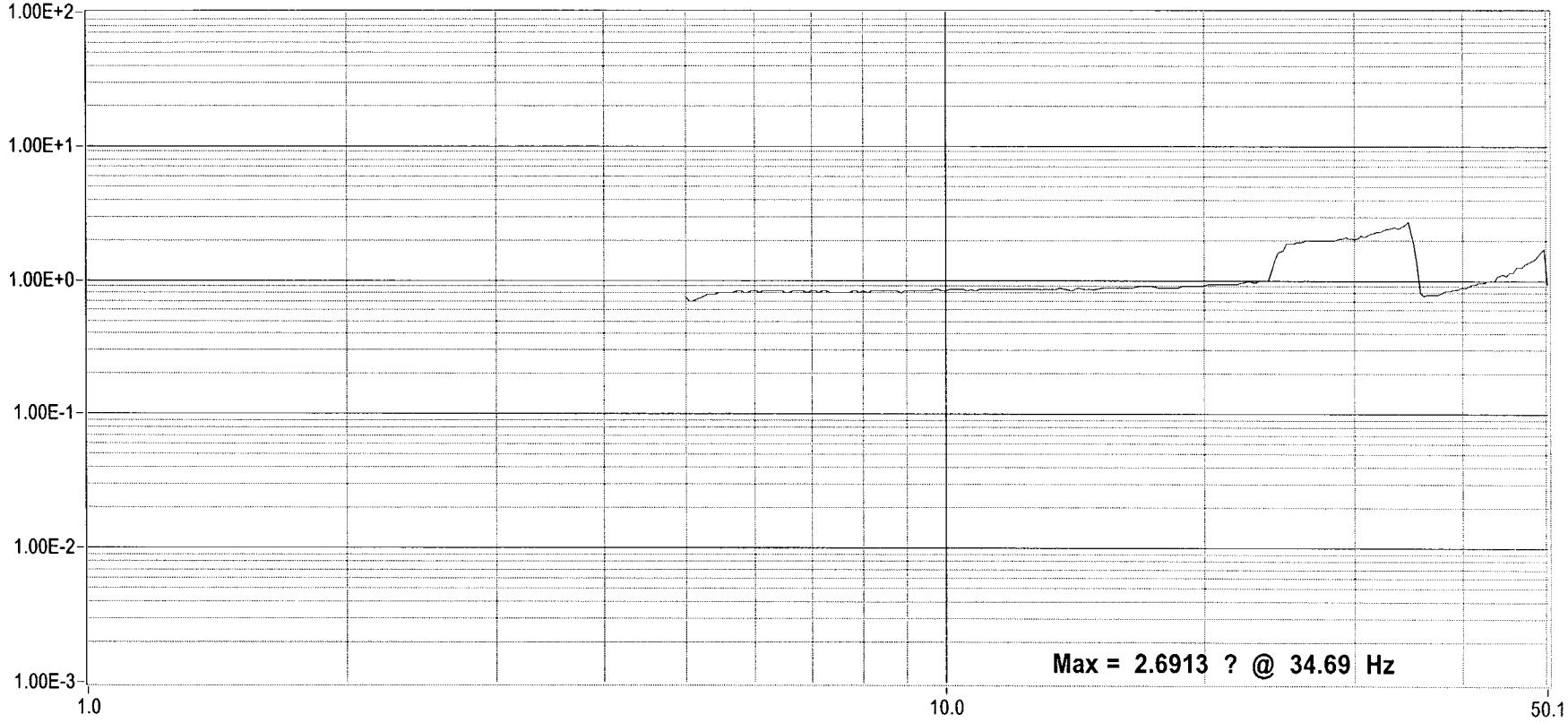
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 AM

Frequency HZ

A3X: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 46 **Node Number:** 0046

Channel Description: BOX 3 CH 14 SN=AG02

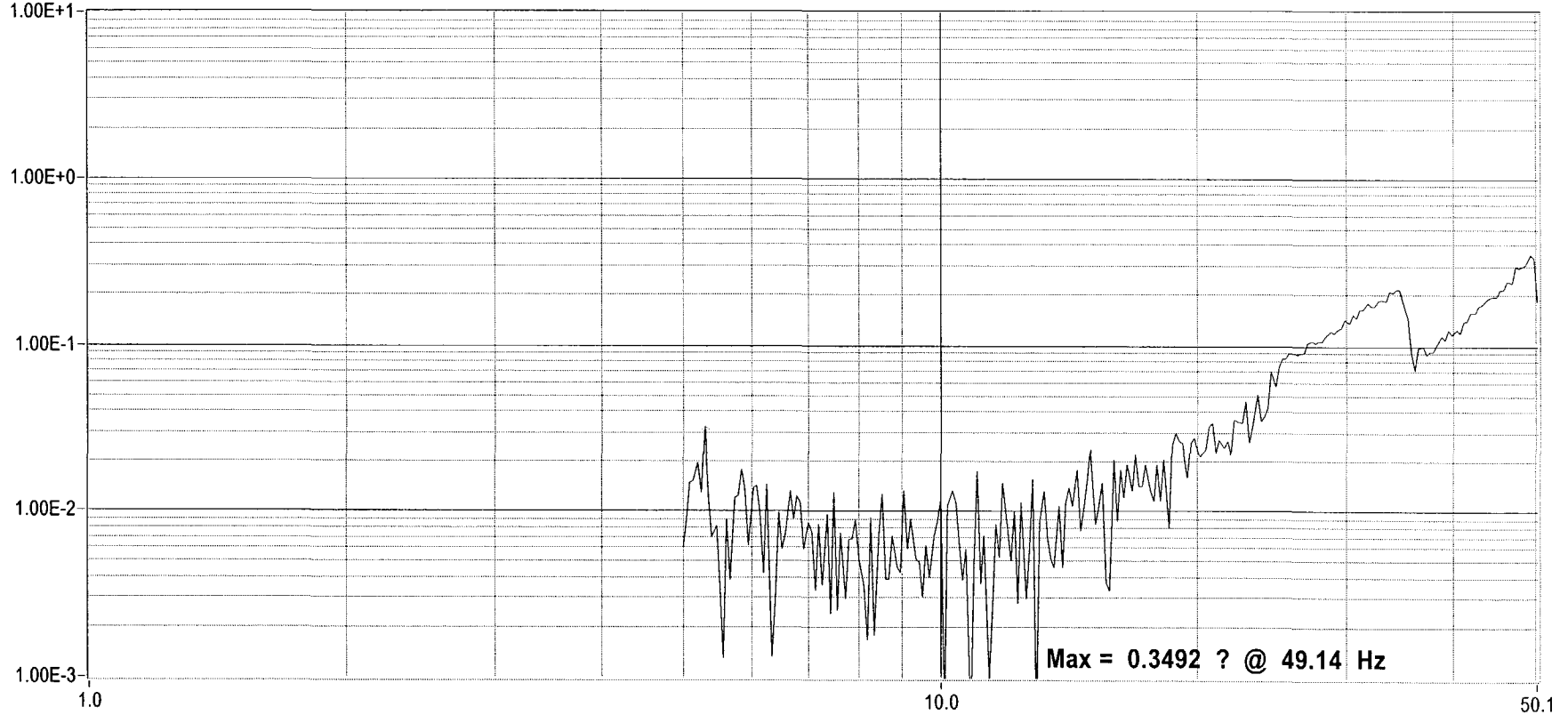
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 5:53:53

A3Y: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:16 AM

Frequency HZ

A3Y: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 47 **Node Number:** 0047

Channel Description: BOX 3 CH 15 SN=BC12

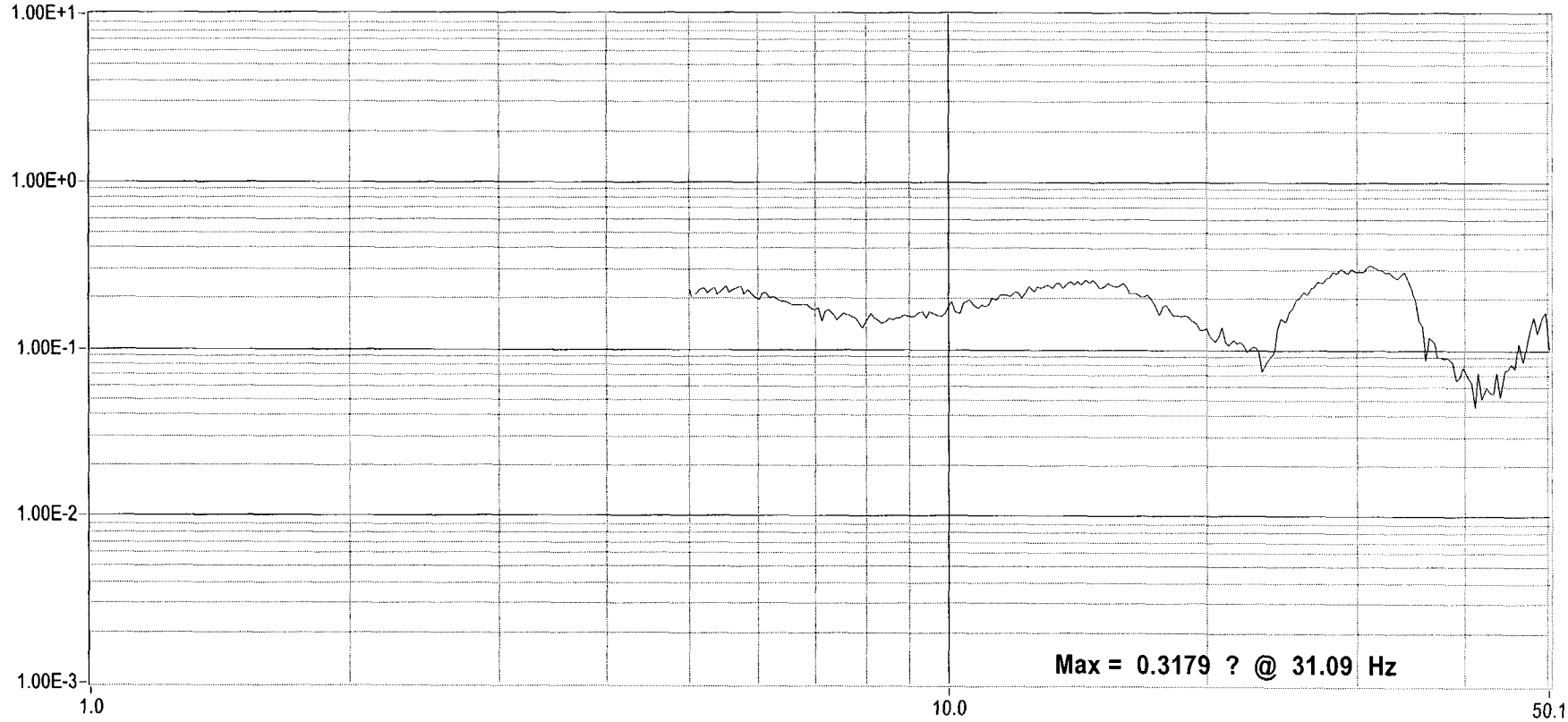
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A3Z: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 AM

Frequency HZ

A3Z: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 48 **Node Number:** 0048

Channel Description: BOX 3 CH 16 SN=AE43

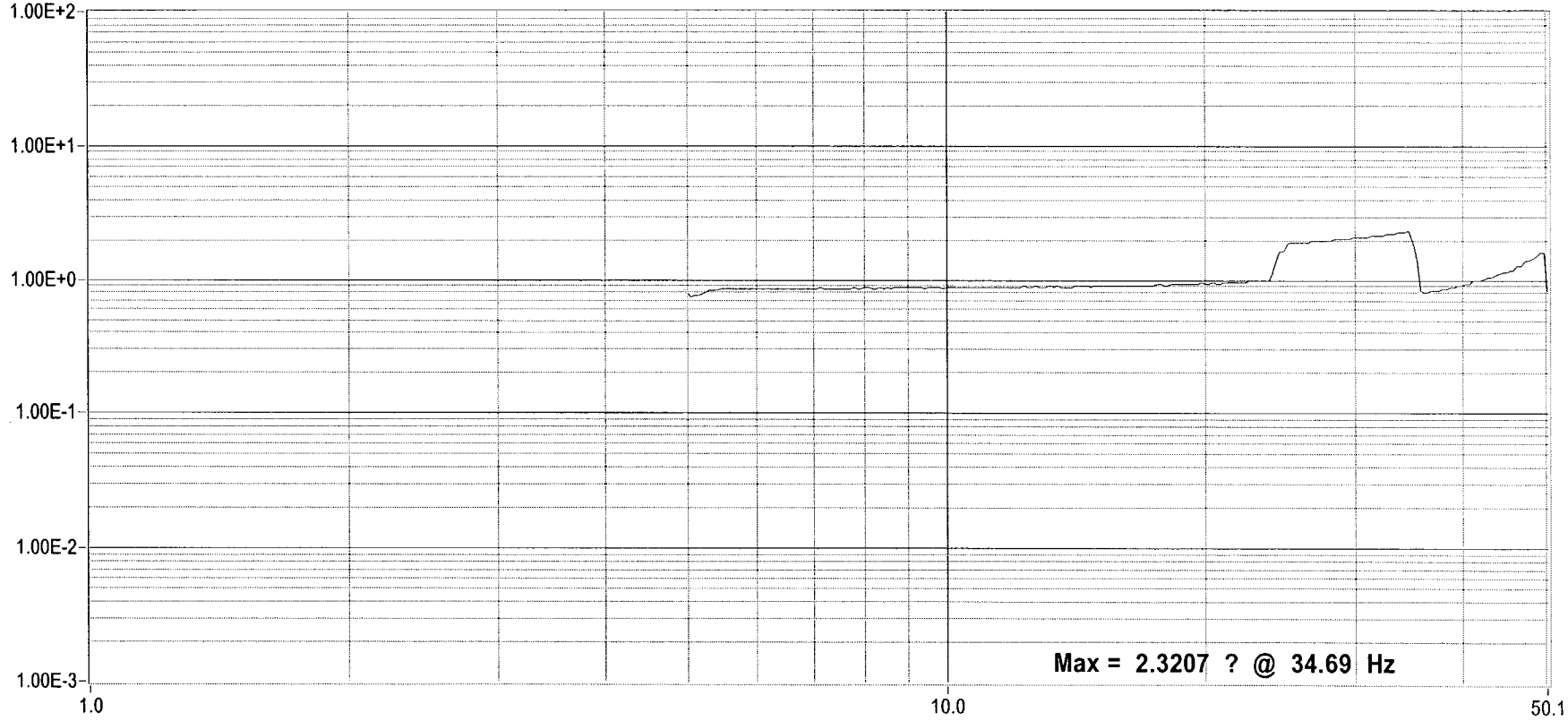
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A3RX: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 AM

Frequency HZ

A3RX: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 49 **Node Number:** 0049

Channel Description: BOX 4 CH 1 SN=AF57

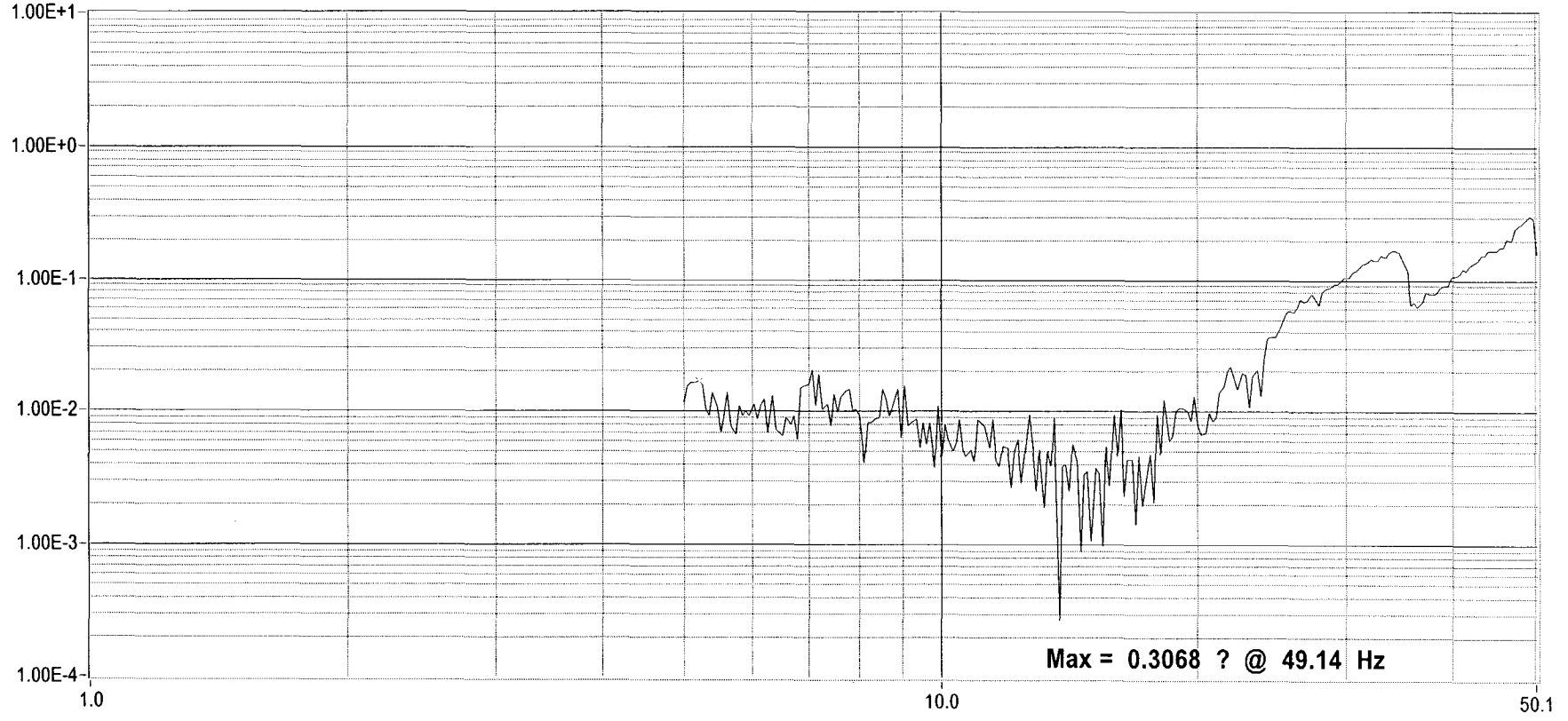
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 5:53:53

A3RY: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:16 AM

Frequency HZ

A3RY: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 50 **Node Number:** 0050

Channel Description: BOX 4 CH 2 SN=AB65

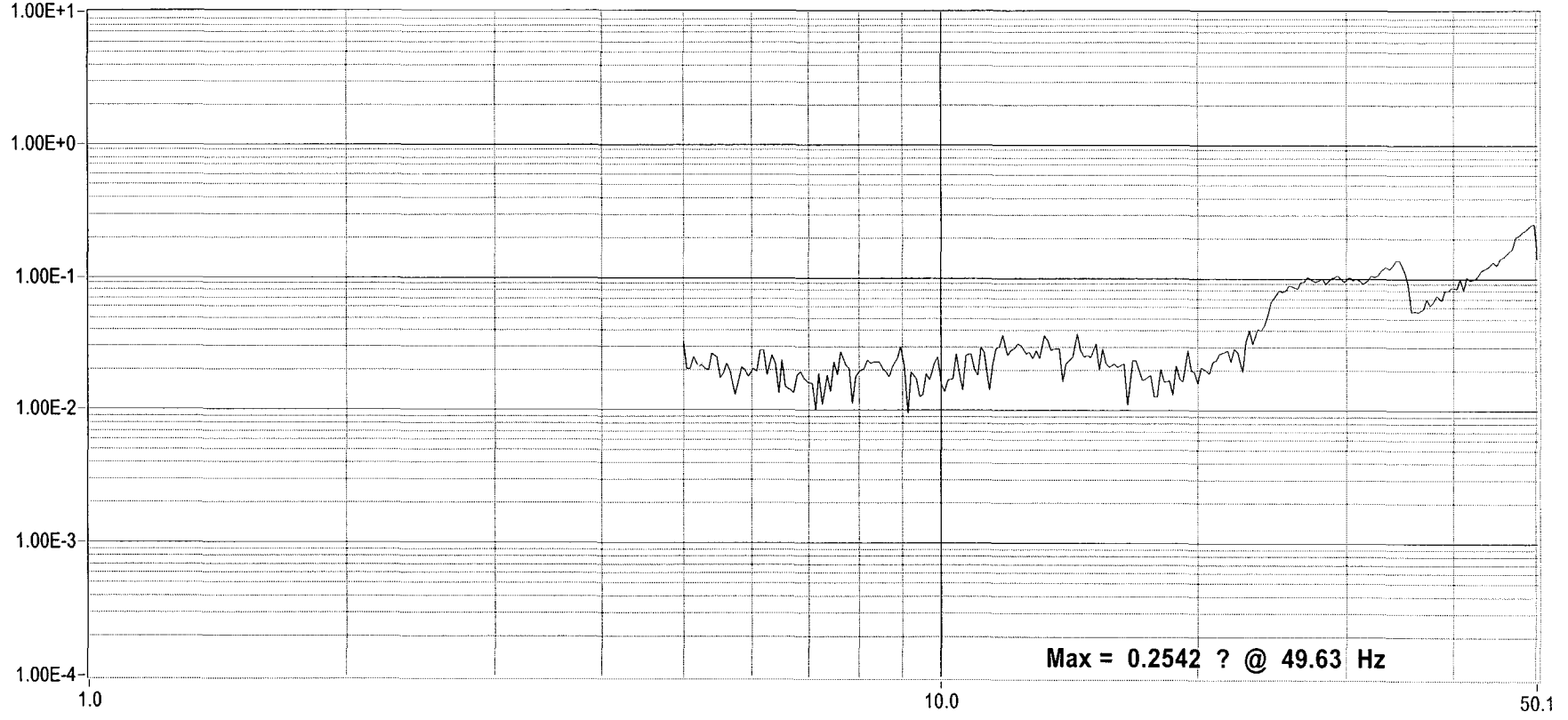
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A3RZ: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:16 AM

Frequency HZ

A3RZ: +X PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 51 **Node Number:** 0051

Channel Description: BOX 4 CH 3 SN=AH55

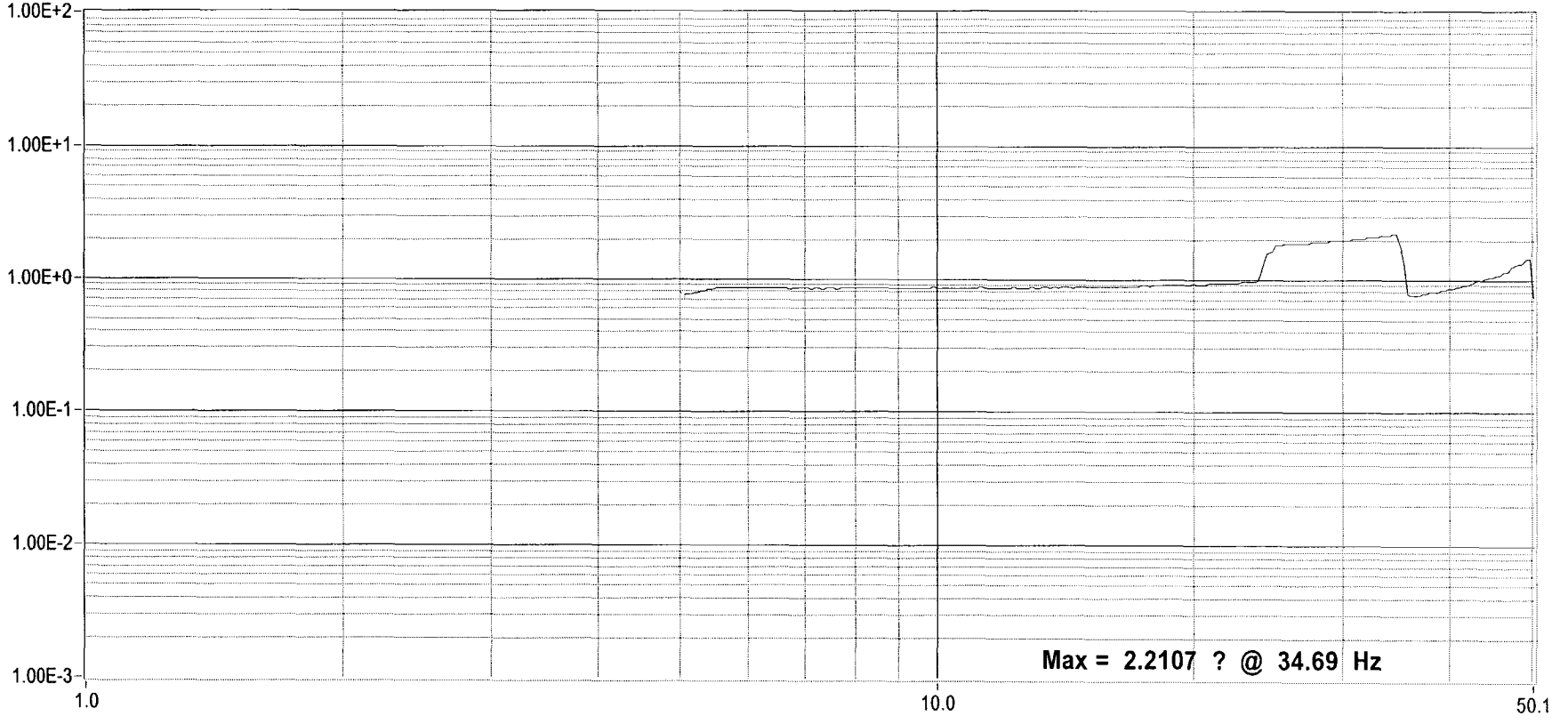
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A4X: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 AM

Frequency HZ

A4X: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 52 **Node Number:** 0052

Channel Description: BOX 4 CH 4 SN=AJ95

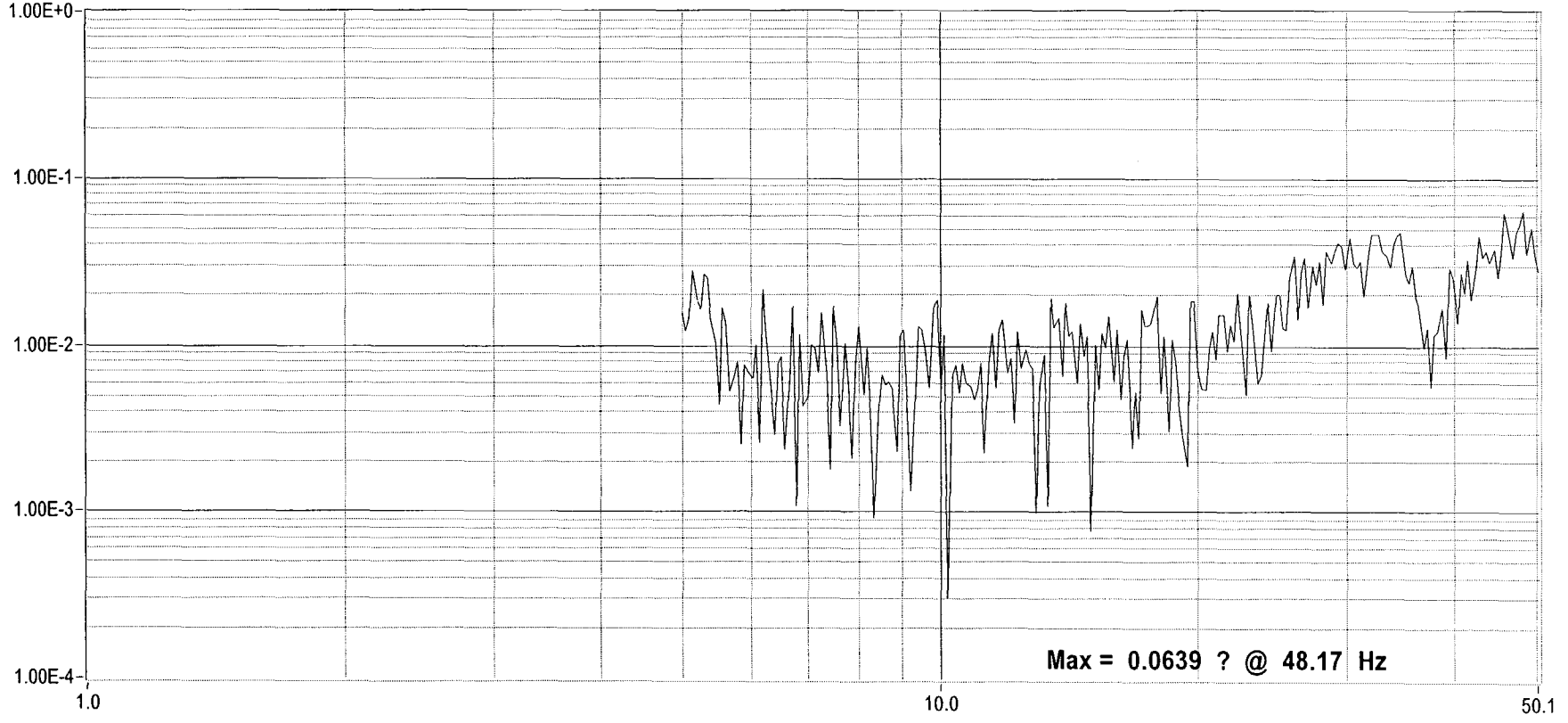
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A4Y: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 AM

Frequency HZ

A4Y: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 53 **Node Number:** 0053

Channel Description: BOX 4 CH 5 SN=AB55

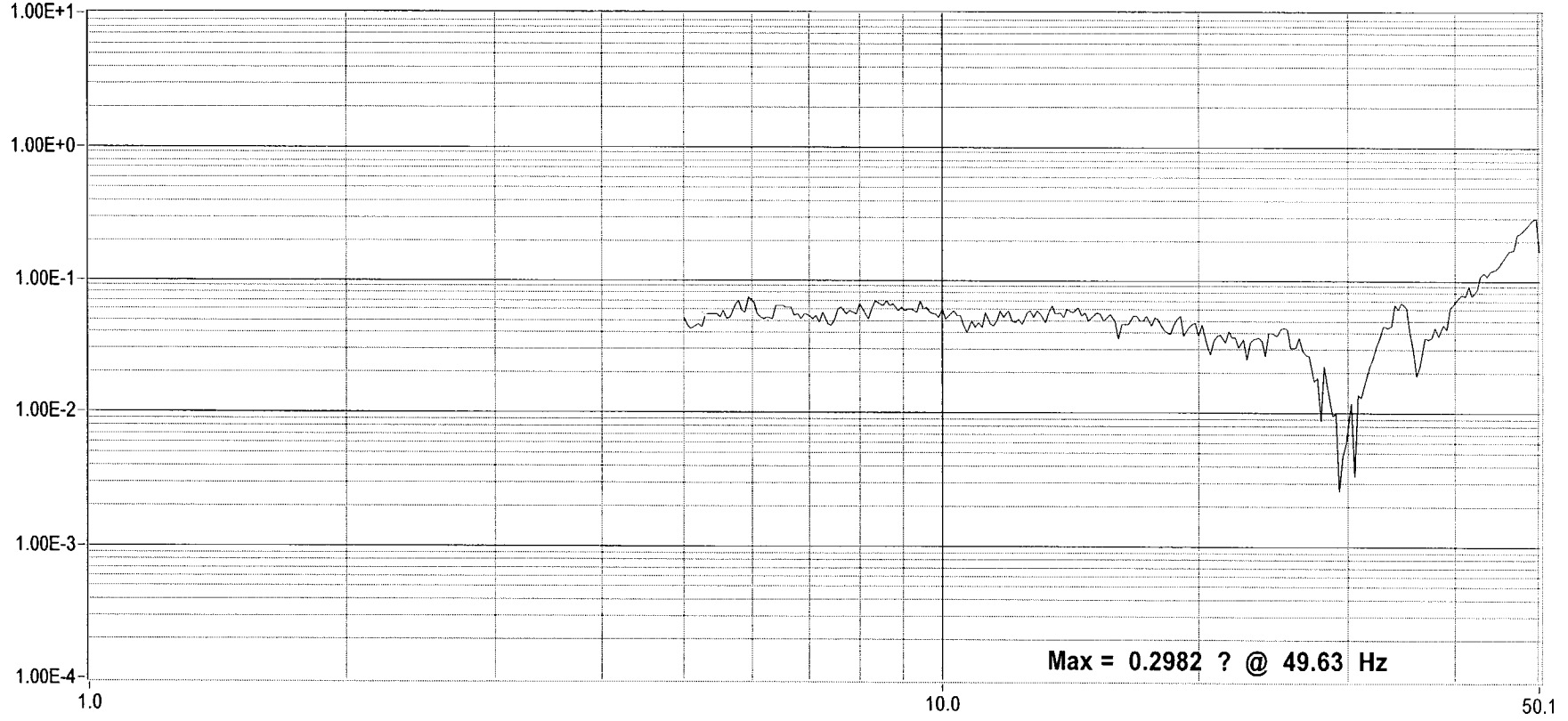
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 5:53:53

A4Z: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP



Plot Date/Time: 6/24/02 @ 6:17 AM

Frequency HZ

A4Z: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 54 **Node Number:** 0054

Channel Description: BOX 4 CH 6 SN=AF10

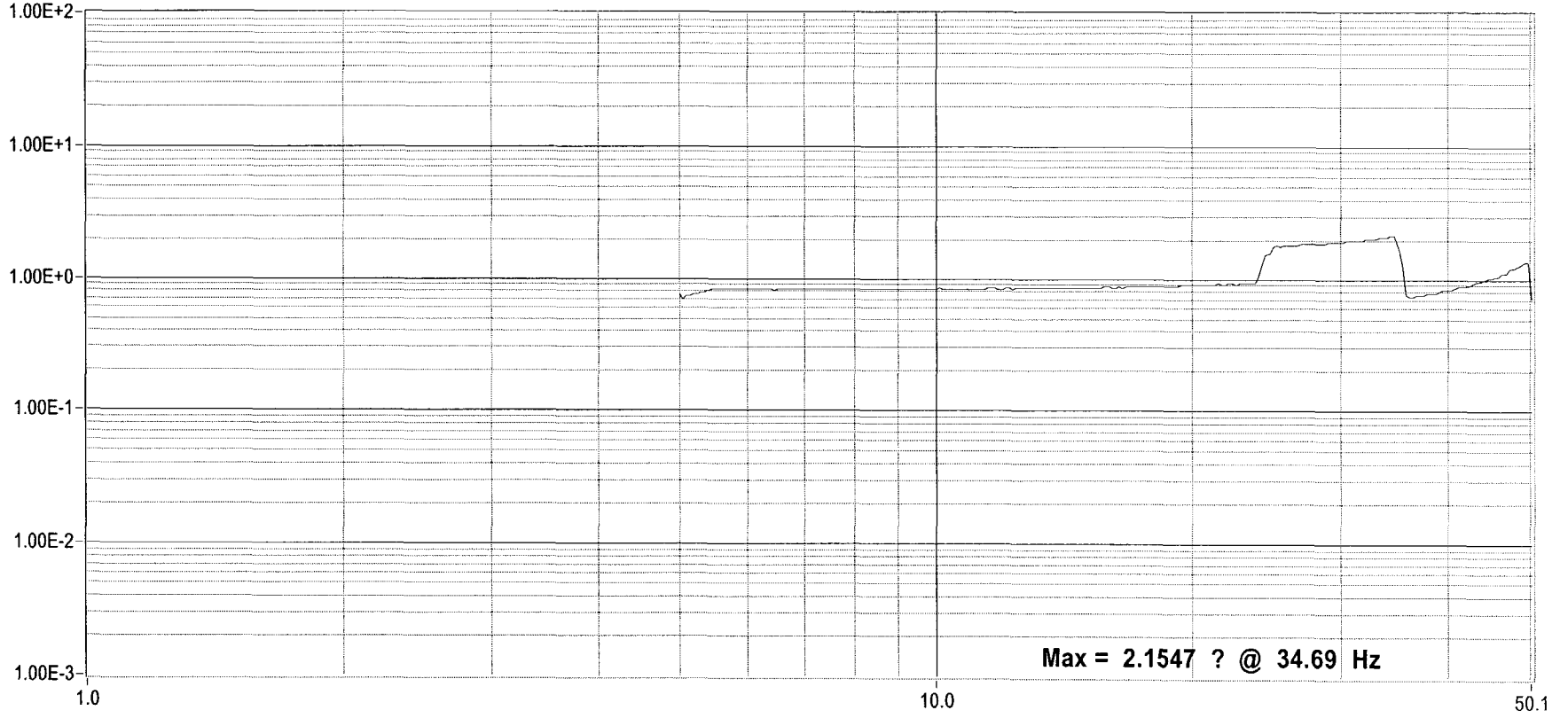
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A4RX: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 AM

Frequency HZ

A4RX: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Channel #: 55 **Node Number:** 0055

Channel Description: BOX 4 CH 7 SN=AF56

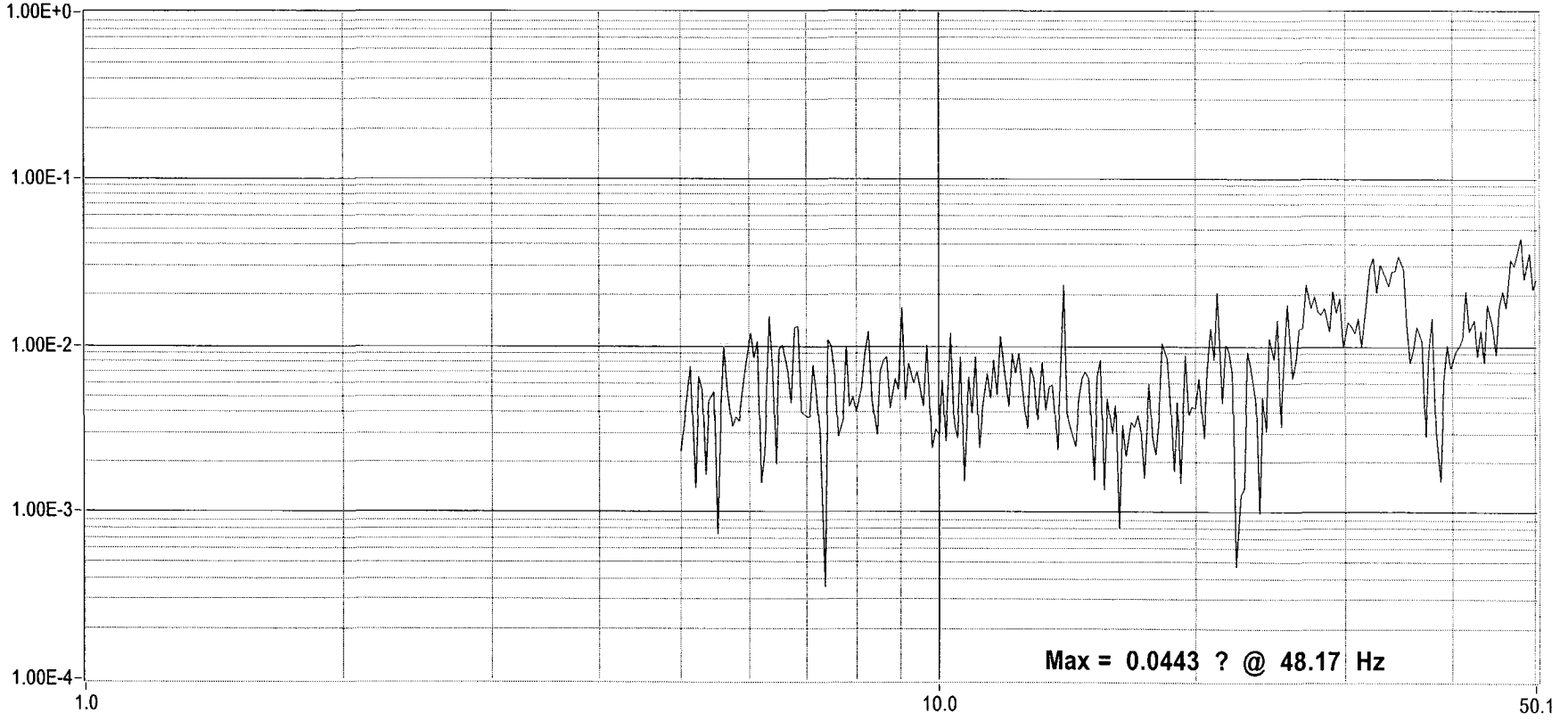
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Test Date/Time: 24-Jun-2002 5:53:53

A4RY: +Y PANEL MID-CMU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 AM

Frequency HZ

A4RY: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

A4RZ: +Y PANEL MID-CMU

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

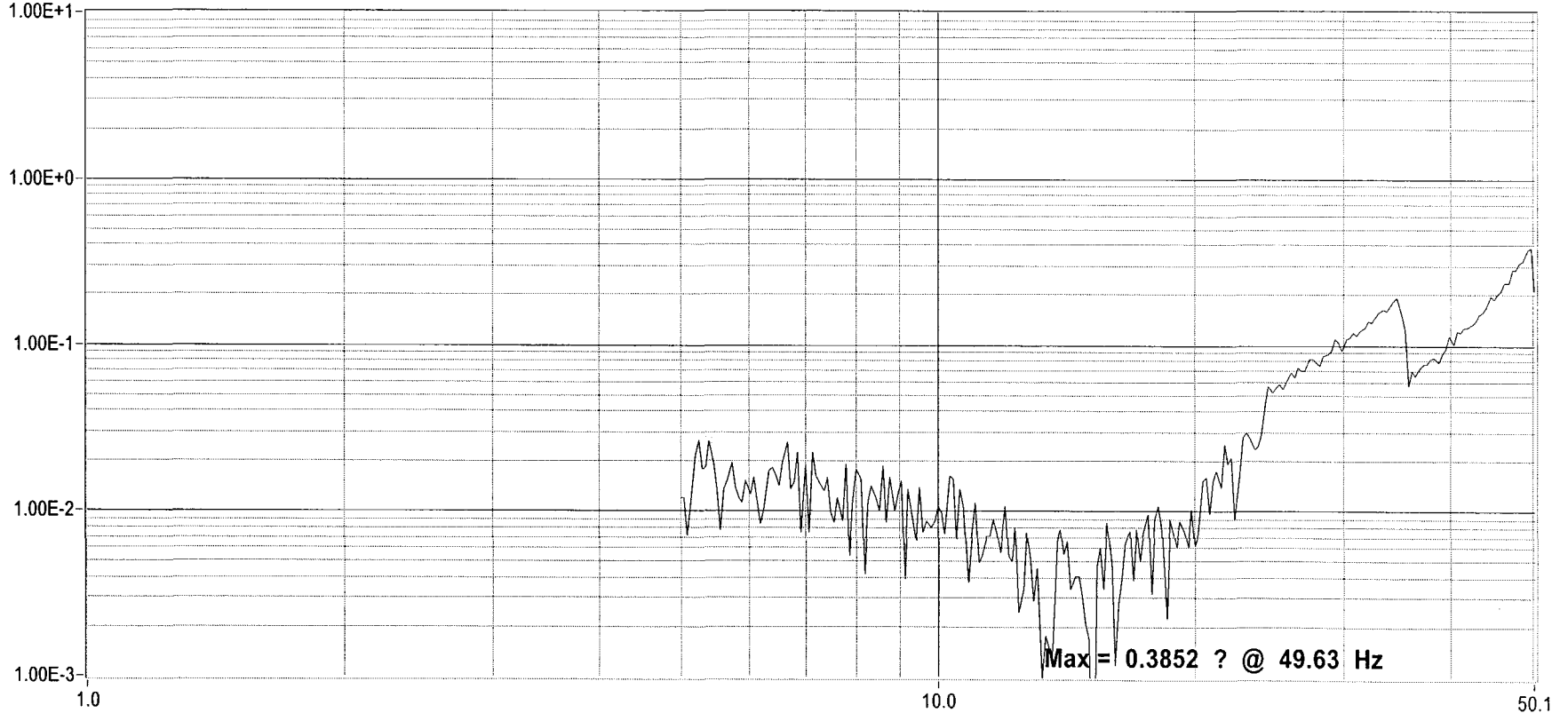
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 56 **Node Number:** 0056

Channel Description: BOX 4 CH 8 SN=AD53

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:17 AM

Frequency HZ

A4RZ: +Y PANEL

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

F1: FLY AWAY

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

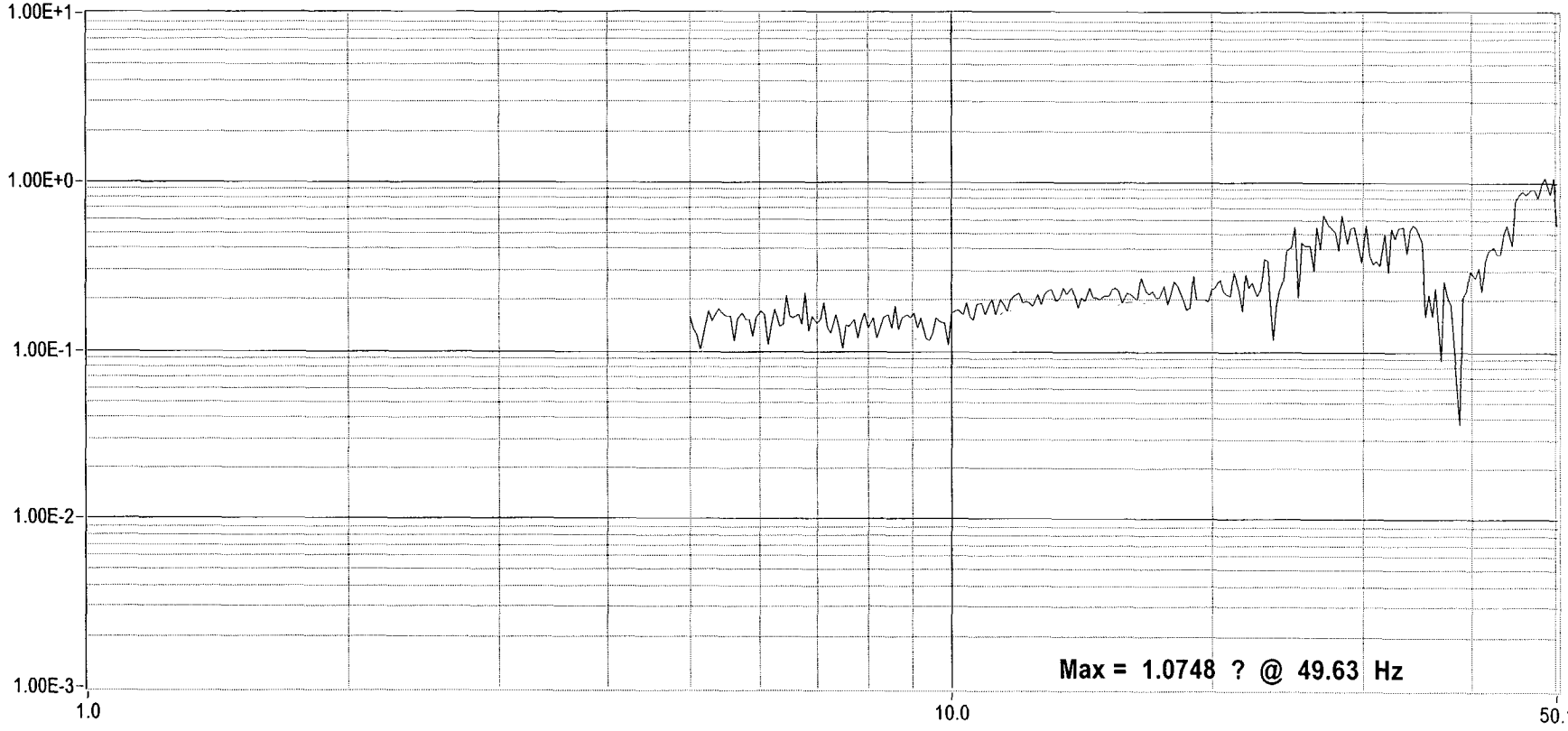
Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Channel #: 57 **Node Number:** 0057

Channel Description: BOX 4 CH 9 SN=BF27

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:18 AM

Frequency HZ

F1: FLY AWAY

Lockheed Martin Missiles and Space

Sine Spectrum

Test Date/Time: 24-Jun-2002 5:53:53

Average of Channels 1 & 4

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062406

Part Number/ID: Y4011

Test Description:
HIRDLS VIBRATION TEST: X-AXIS 3g SINE SWEEP

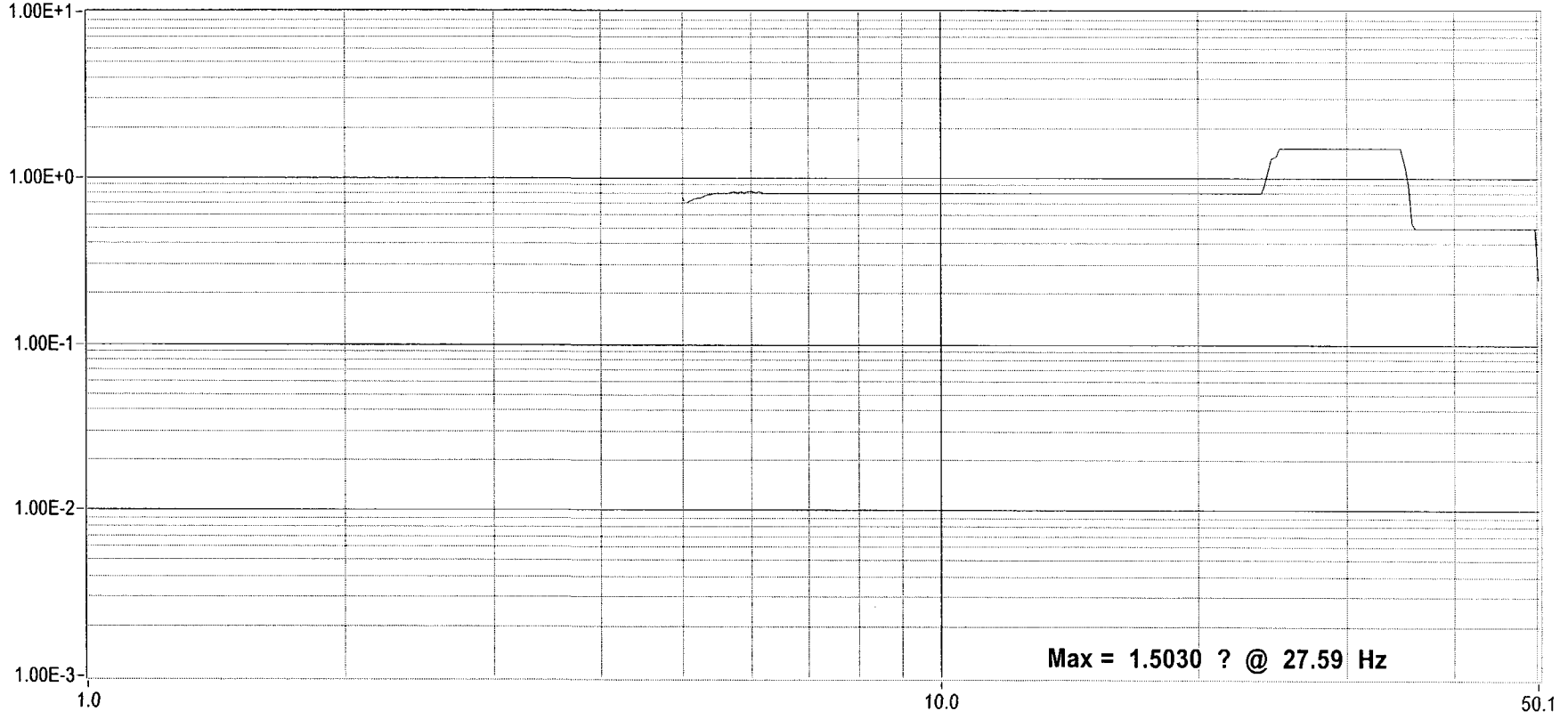
Channel #:

Node Number:

Channel Description:

Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.01 x Frequency, Proportional Bandwidth dF= 50.00% of Freq



Plot Date/Time: 6/24/02 @ 6:19 AM

Frequency HZ

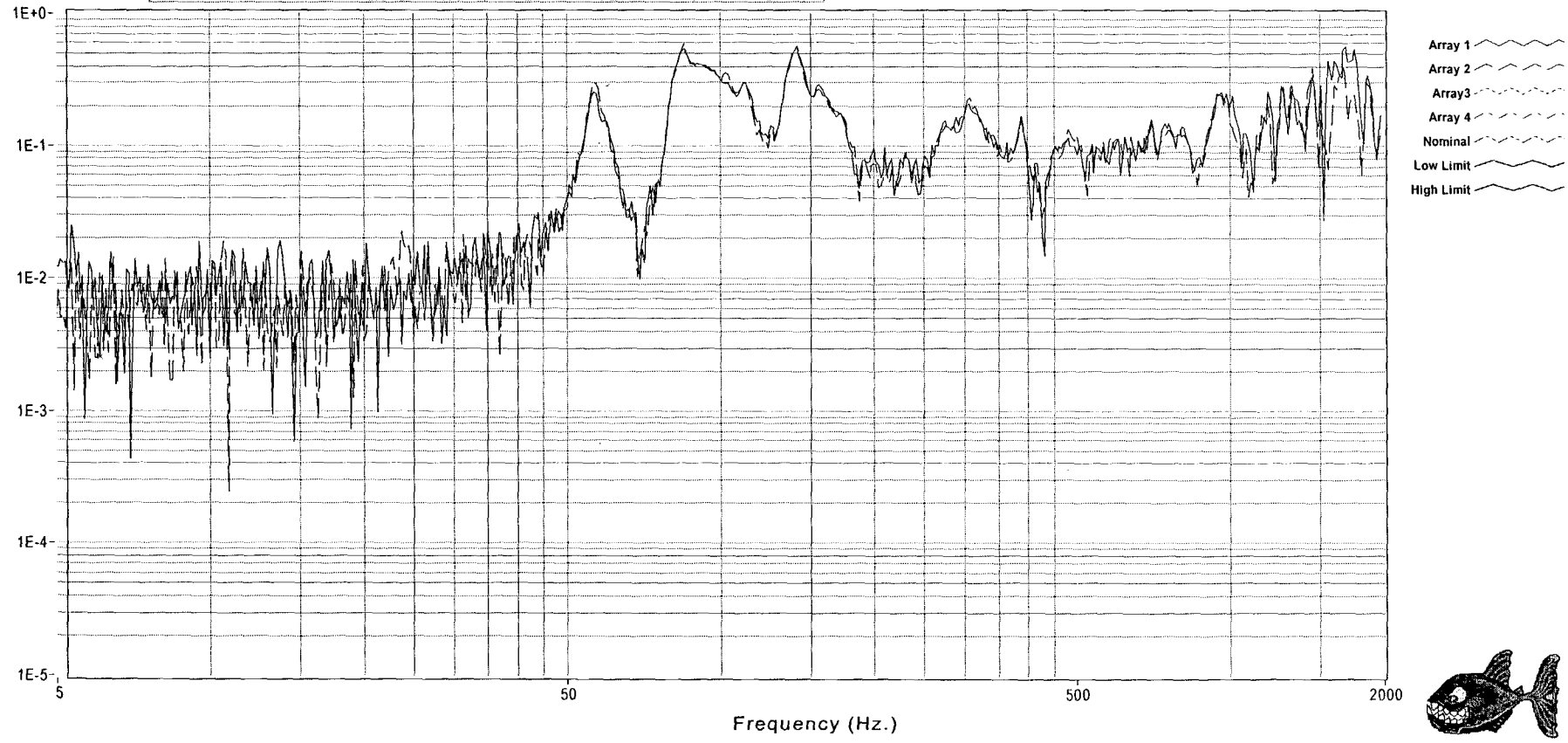
Average of Channels

ch_#	channel_label	Max_G_Resp.	Frequency
1	North_Control_X	1.5010	27.5918
2	North_Control_Y	0.0100	34.6874
3	North_Control_Z	0.0218	25.2283
4	South_Control_X	1.5051	31.4020
5	South_Control_Y	0.0098	33.6672
6	South_Control_Z	0.0462	34.6874
7	A5 X	1.5220	34.6874
8	A5 Y	0.0952	34.6874
9	A5 Z	0.0729	24.9785
10	A6 X	1.6184	34.6874
11	A6 Y	0.0760	30.4785
12	A6 Z	0.0758	49.6296
17	A7 X	1.5185	29.2893
18	A7 Y	0.0793	33.3339
19	A7 Z	0.0133	13.3450
20	A8 X	1.7010	34.6874
21	A8 Y	0.1935	34.6874
22	A8 Z	0.0200	40.2710
23	A9 X	1.5111	32.0332
24	A9 Y	0.0708	29.8780
25	A9 Z	0.0326	34.0039
26	A10 X	0.0792	33.0039
27	A10 Y	1.8730	34.3440
28	A10 Z	0.0643	33.0039
31	DRIVE	0.5293	4.9831
32	COLA	1.0939	4.9831
33	A1X: +Y PANEL UPPER	2.4887	34.6874
34	A1Y: +Y PANEL UPPER	0.0891	49.6296
35	A1Z: +Y PANEL UPPER	0.2315	34.6874
36	A1RX: +Y PANEL UPPER	2.3499	34.6874
37	A1RY: +Y PANEL UPPER	0.0680	49.1383
38	A1RZ: +Y PANEL UPPER	0.0944	49.6296
39	A2X: +Y PANEL LOWER TEU	2.0696	34.6874
40	A2Y: +Y PANEL LOWER TEU	0.0884	34.0039
41	A2Z: +Y PANEL LOWER TEU	0.1663	4.9831
42	A2RX: +Y PANEL LOWER TEU	2.0391	34.6874
43	A2RY: +Y PANEL LOWER TEU	0.1037	49.6296
44	A2RZ: +Y PANEL LOWER TEU	0.1124	34.0039
45	A3X: +X PANEL UPPER CCU	2.6913	34.6874
46	A3Y: +X PANEL UPPER CCU	0.3492	49.1383
47	A3Z: +X PANEL UPPER CCU	0.3179	31.0911
48	A3RX: +X PANEL UPPER CCU	2.3207	34.6874
49	A3RY: +X PANEL UPPER CCU	0.3068	49.1383
50	A3RZ: +X PANEL UPPER CCU	0.2542	49.6296
51	A4X: +Y PANEL MID-CMU	2.2107	34.6874
52	A4Y: +Y PANEL MID-CMU	0.0639	48.1700
53	A4Z: +Y PANEL MID-CMU	0.2982	49.6296
54	A4RX: +Y PANEL MID-CMU	2.1547	34.6874
55	A4RY: +Y PANEL MID-CMU	0.0443	48.1700
56	A4RZ: +Y PANEL MID-CMU	0.3852	49.6296
57	F1: FLY AWAY	1.0748	49.6296

ch_#	channel_label	Max_G_Resp.	Frequency
	Average of Channels 1 & 4	1.5030	27.5918

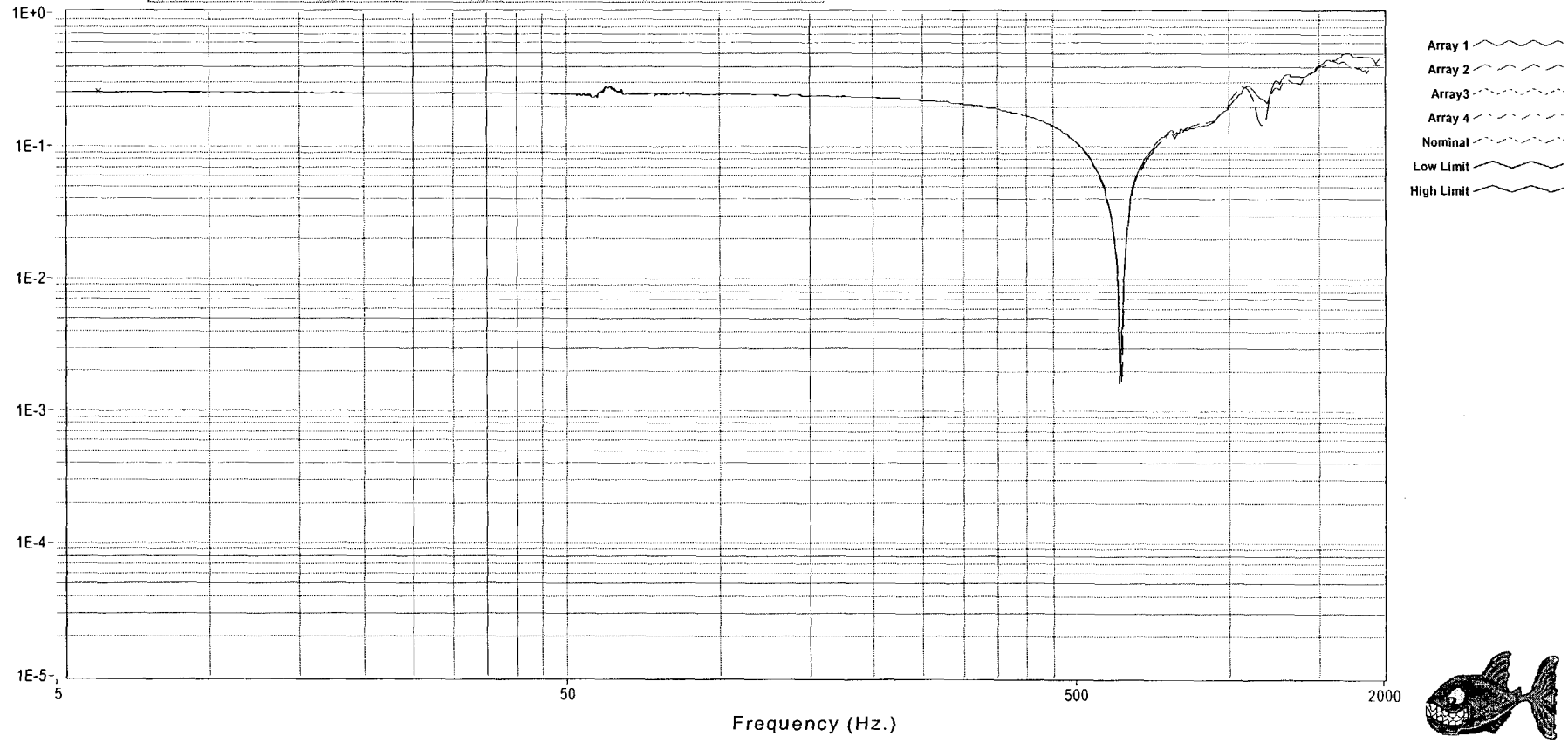
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A1Y: +Y PANEL UPPER Channel #34	A1Y: +Y PANEL UPPER Channel #34
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 2 SN=AC40	BOX 3 CH 2 SN=AC40
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.693E-1 at 1681.0 Hz.	Maximum = 5.870E-1 at 84.9 Hz.
Overall or RMS	N/A	N/A



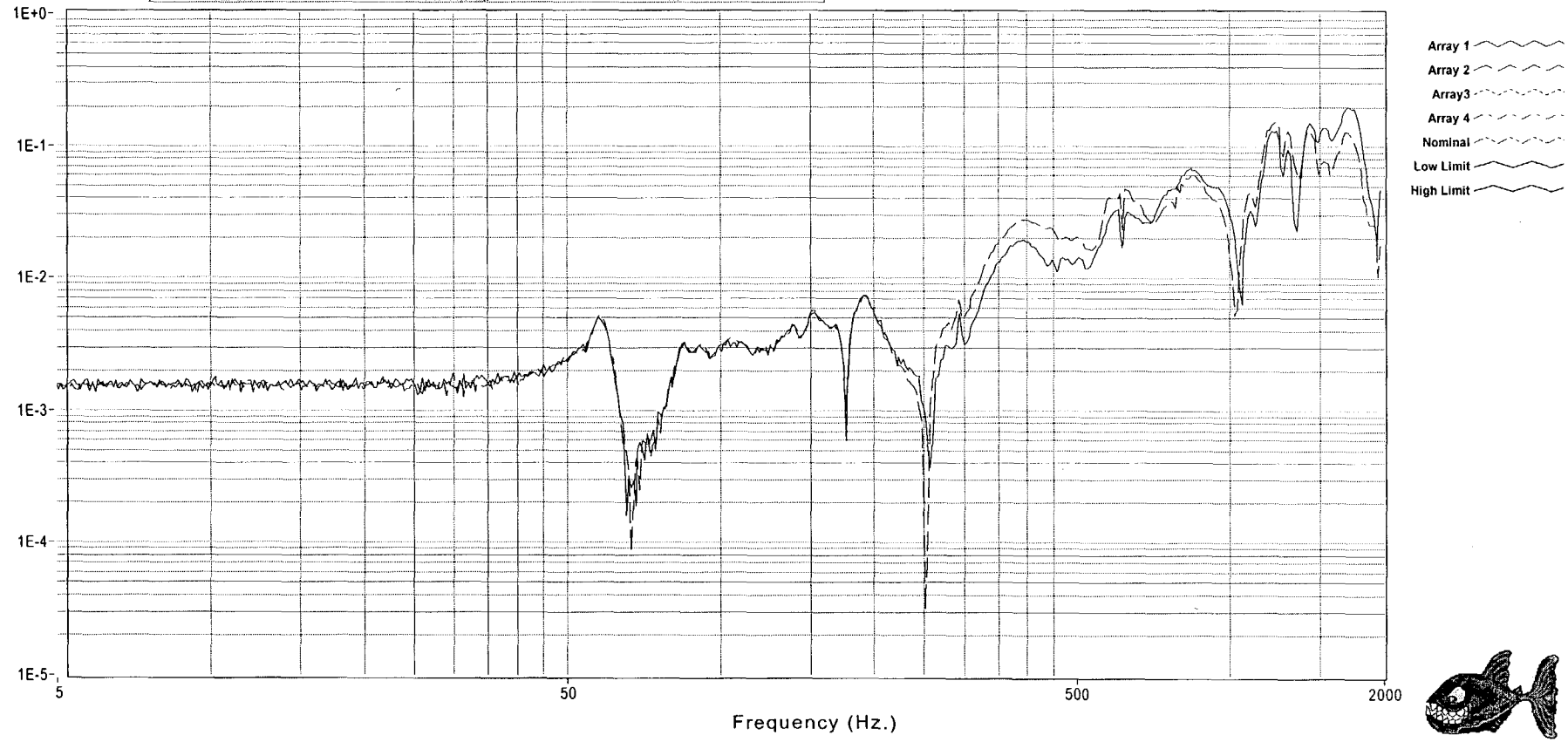
Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	North_Control_X Channel #1	North_Control_X Channel #1
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.038E-1 at 1681.0 Hz.	Maximum = 4.393E-1 at 1568.0 Hz.
Overall or RMS	N/A	N/A



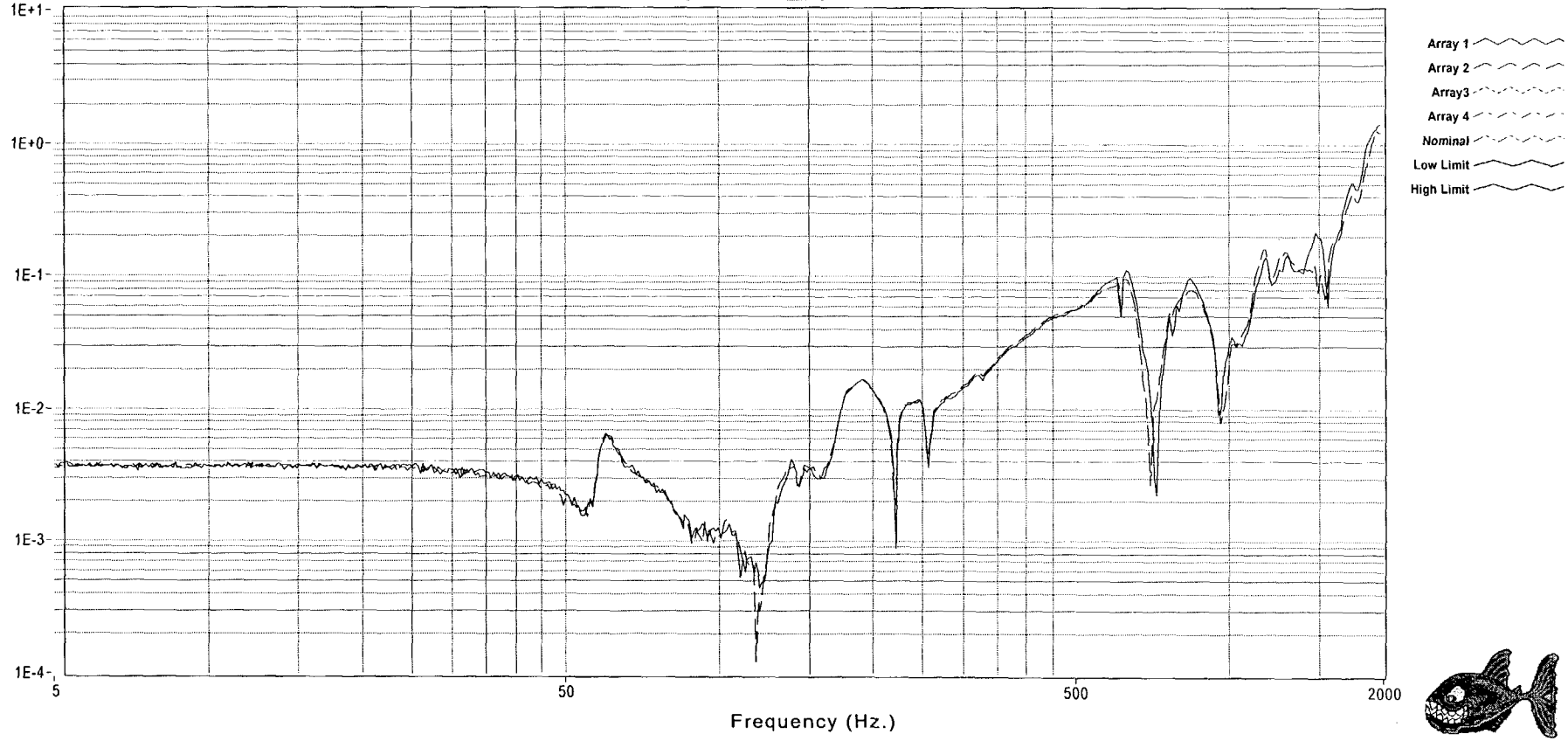
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401 North_Control_Y Channel #2	Array 2 sine_Sine062407 North_Control_Y Channel #2
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.979E-1 at 1698.0 Hz.	Maximum = 1.546E-1 at 1235.0 Hz.
Overall or RMS	N/A	N/A



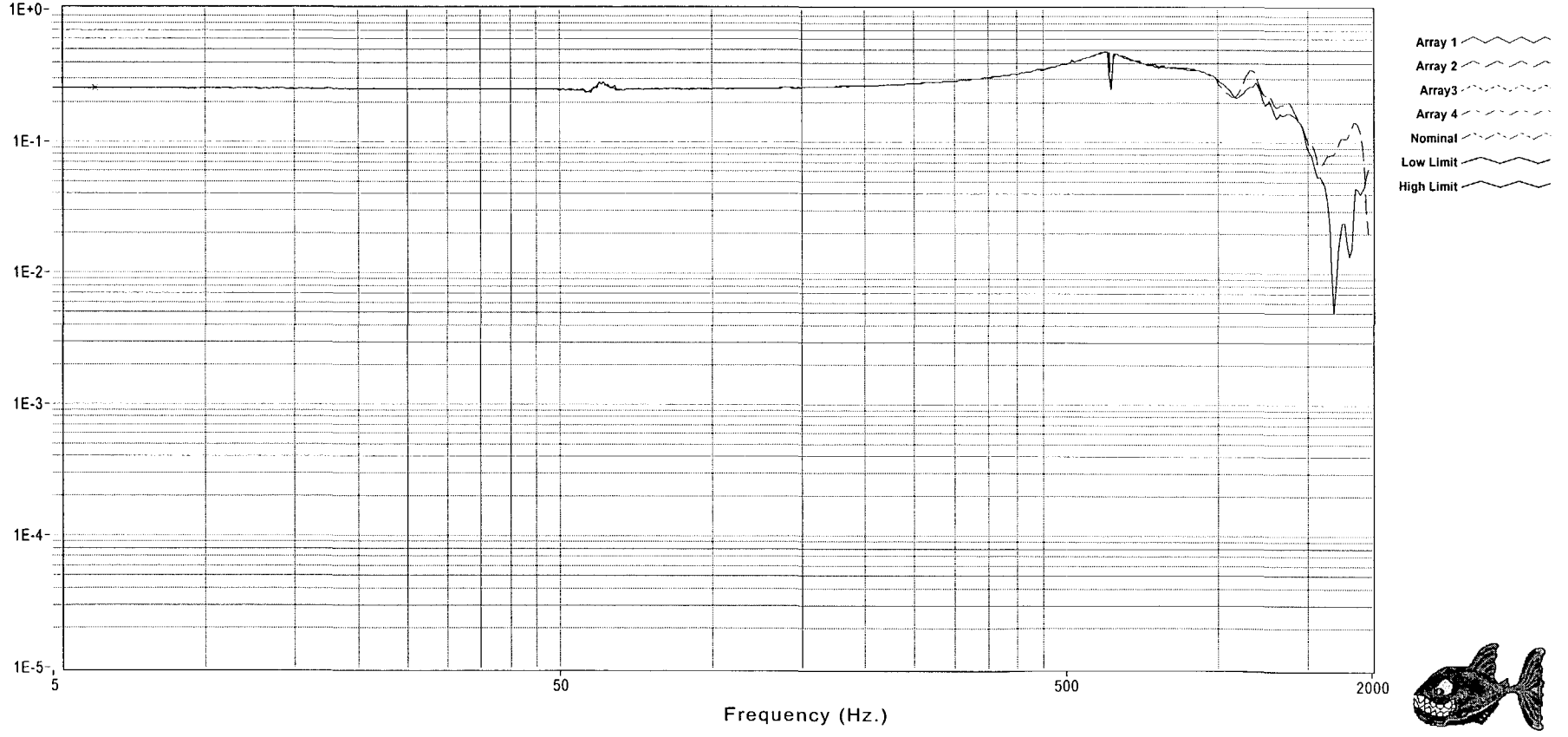
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401 North_Control_Z Channel #3	Array 2 sine_Sine062407 North_Control_Z Channel #3
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.403E+0 at 1971.0 Hz.	Maximum = 1.276E+0 at 1932.0 Hz.
Overall or RMS	N/A	N/A



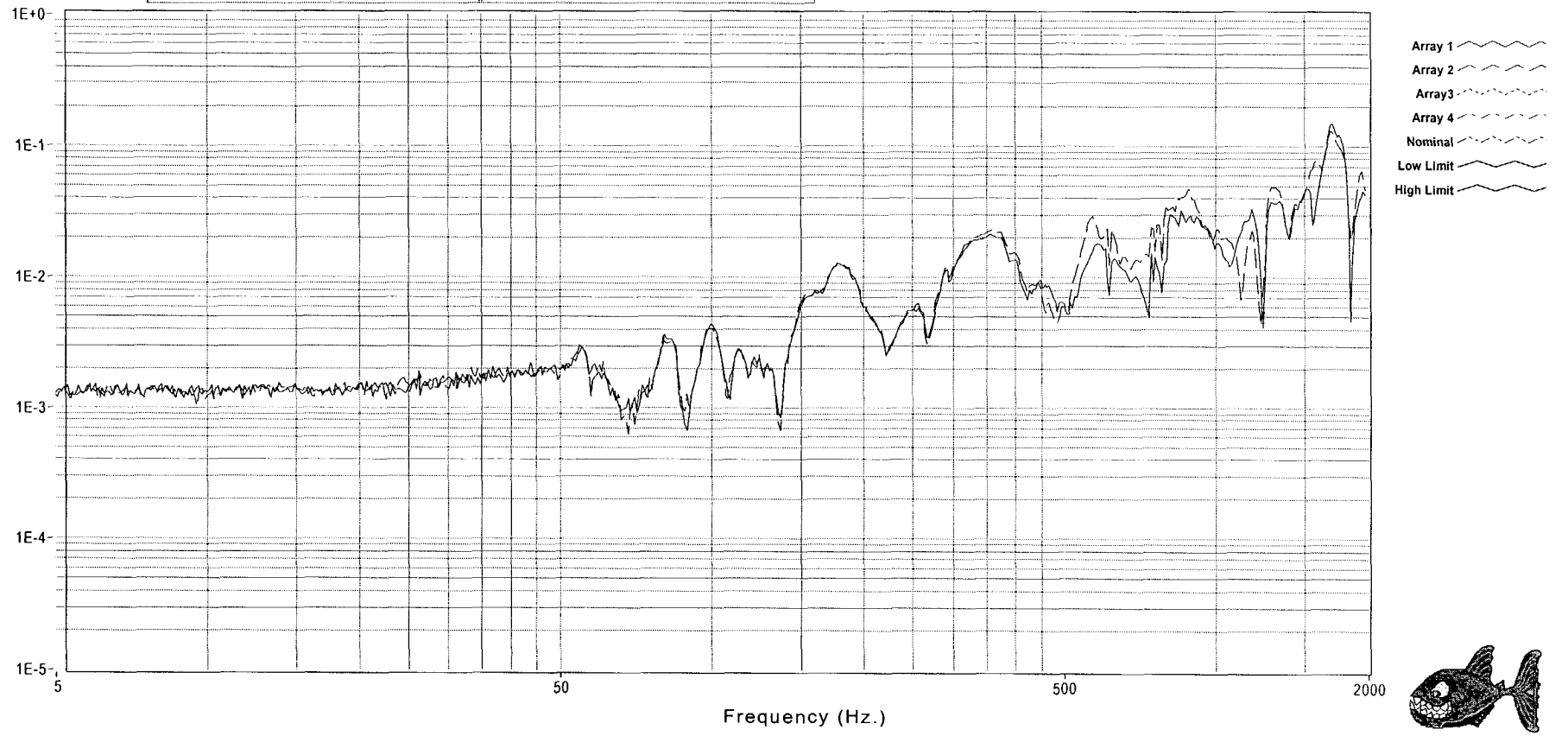
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401 South_Control_X Channel #4	Array 2 sine_Sine062407 South_Control_X Channel #4
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	1	1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.915E-1 at 603.1 Hz.	Maximum = 4.951E-1 at 609.2 Hz.
Overall or RMS	N/A	N/A



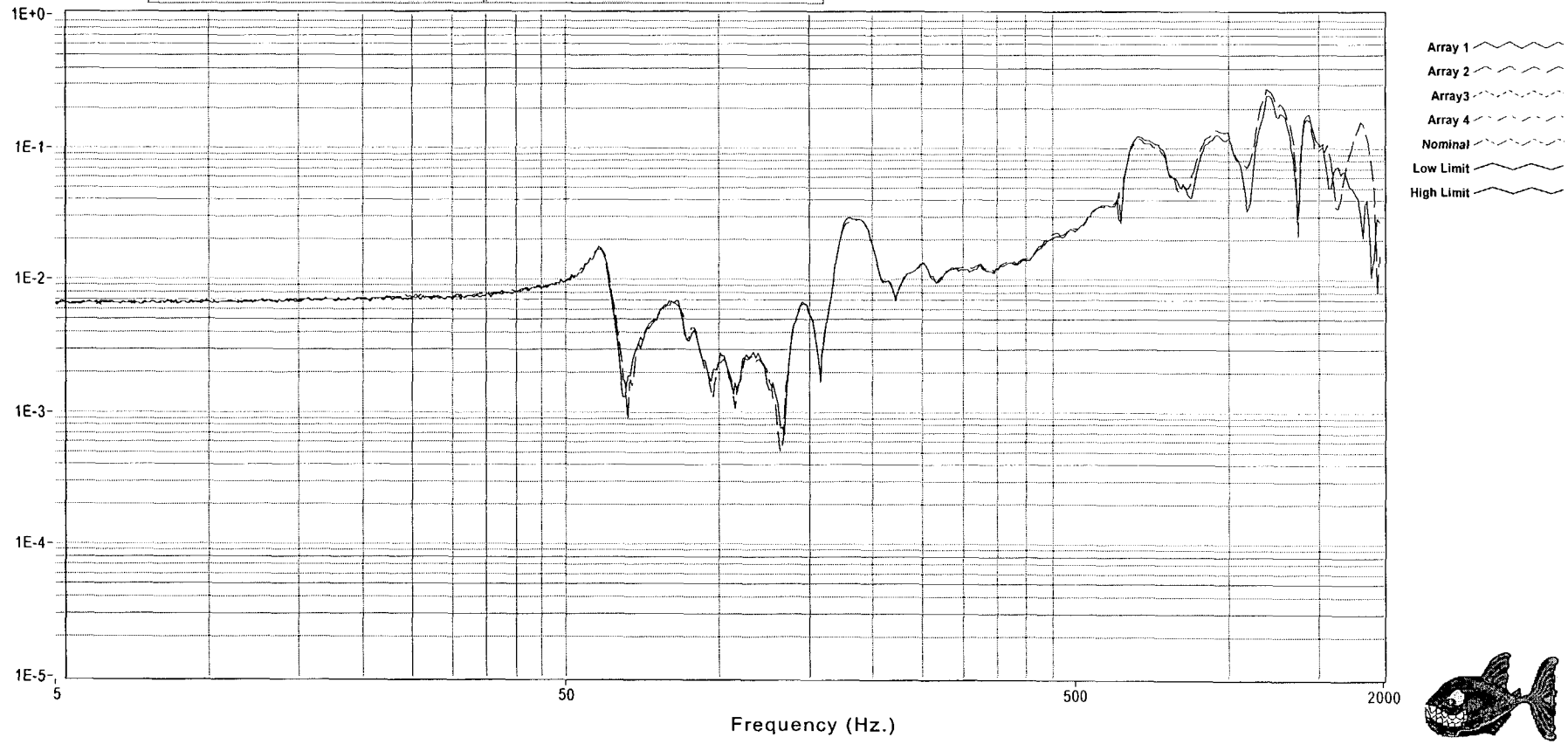
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	South_Control_Y Channel #5	South_Control_Y Channel #5
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.490E-1 at 1698.0 Hz.	Maximum = 1.302E-1 at 1681.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401 South_Control_Z Channel #6	Array 2 sine_Sine062407 South_Control_Z Channel #6
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.523E-1 at 1198.0 Hz.	Maximum = 2.769E-1 at 1186.0 Hz.
Overall or RMS	N/A	N/A



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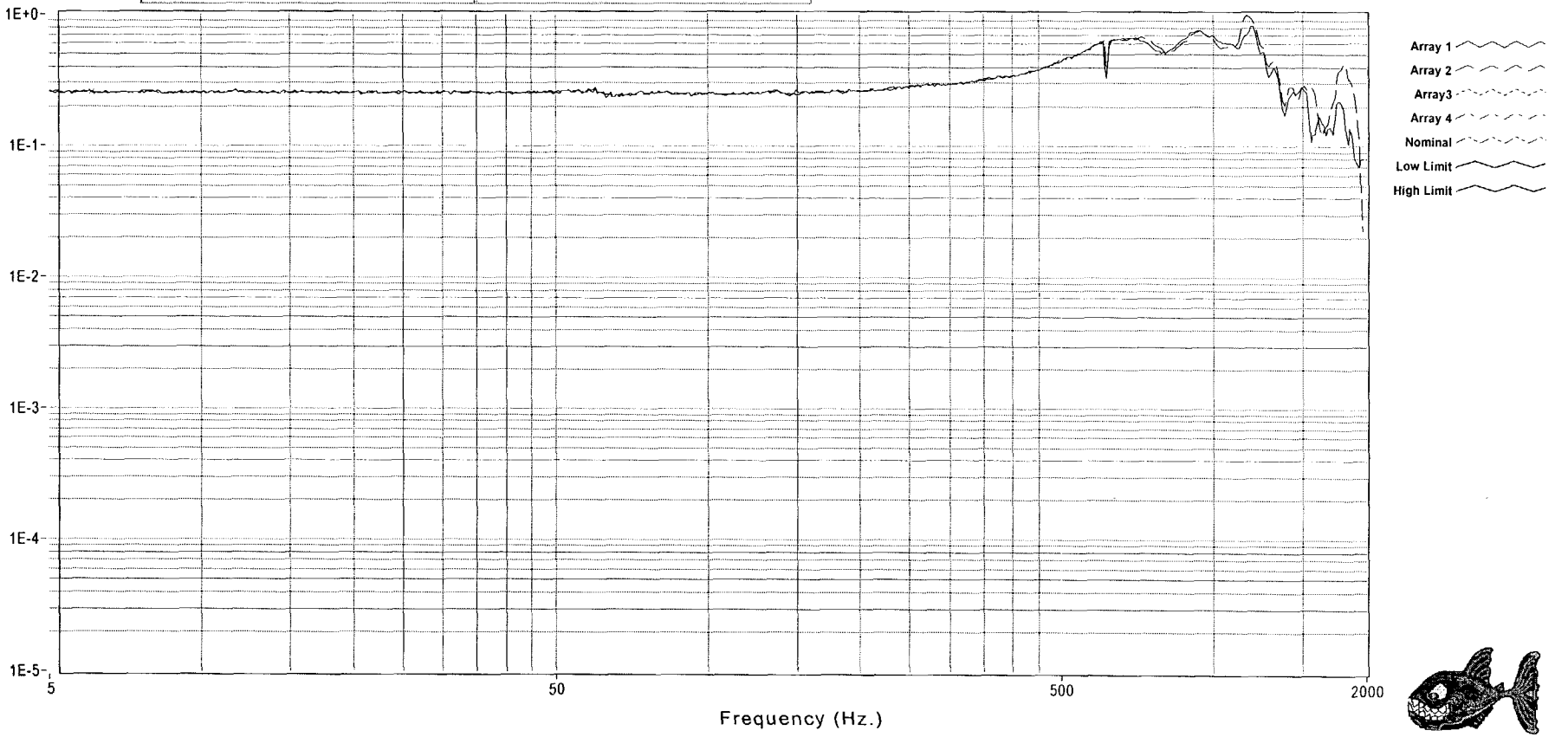
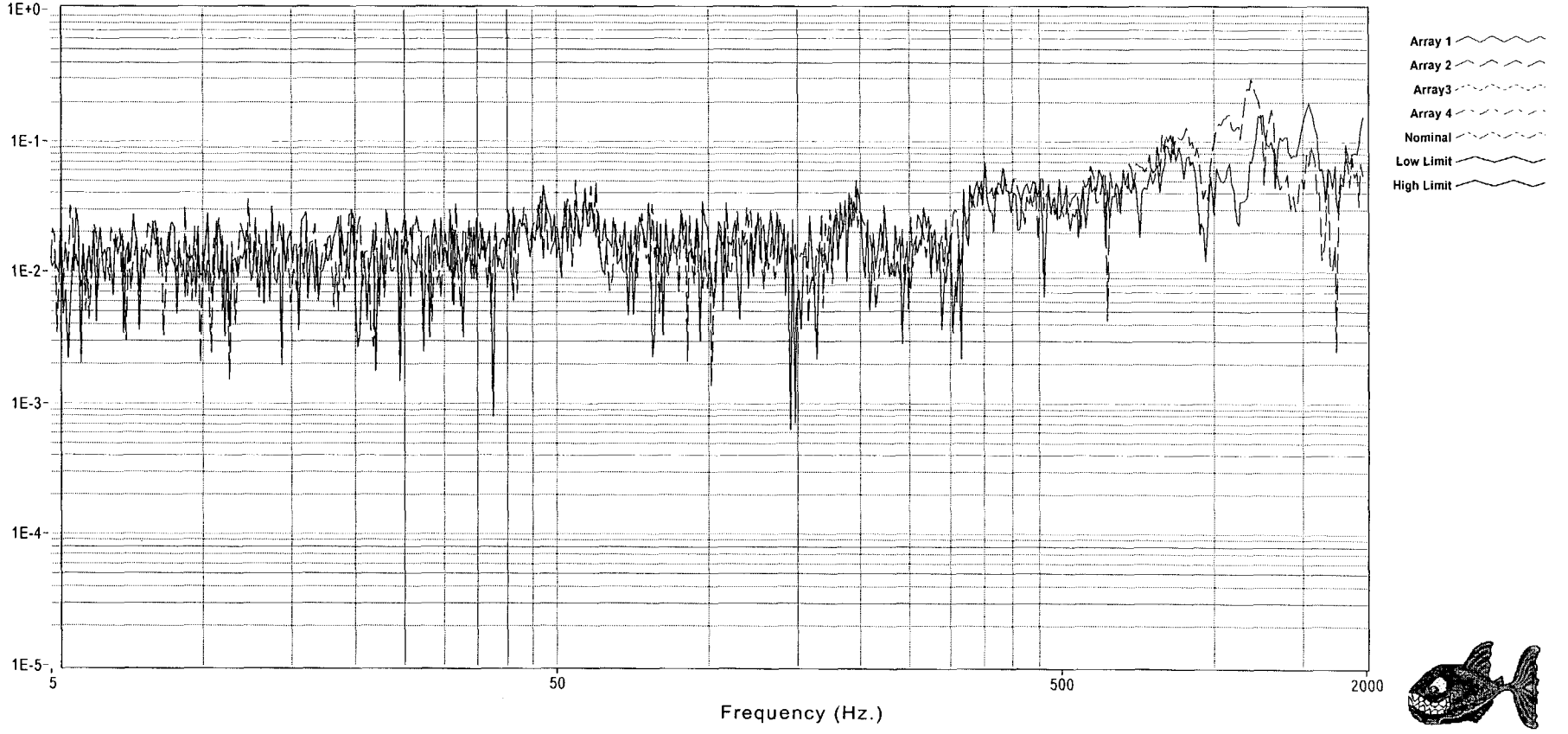
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A5 X Channel #7	A5 X Channel #7
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.327E-1 at 1186.0 Hz.	Maximum = 9.931E-1 at 1163.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A5 Y Channel #8	A5 Y Channel #8
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.955E-1 at 1537.0 Hz.	Maximum = 2.955E-1 at 1186.0 Hz.
Overall or RMS	N/A	N/A



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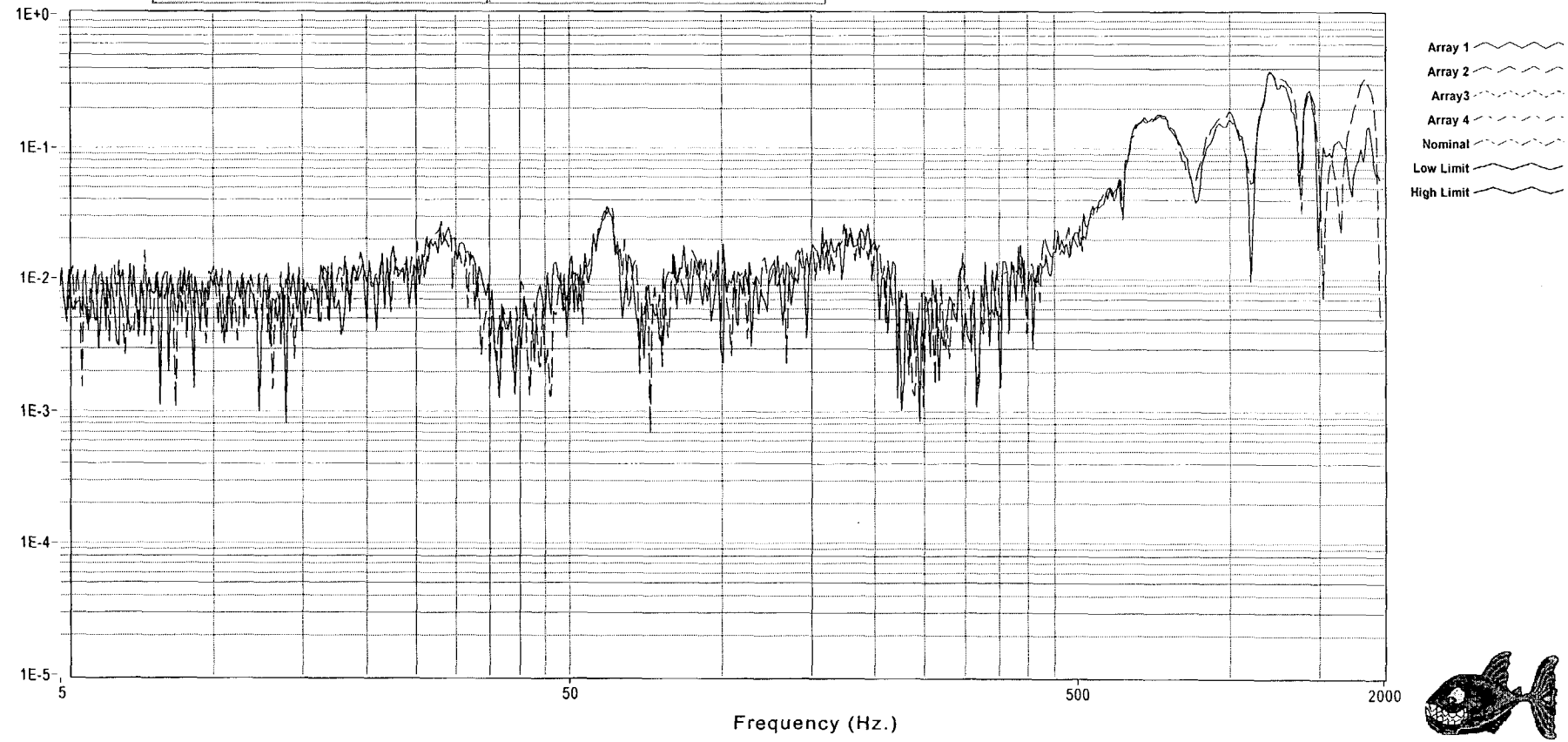
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A5 Z Channel #9	A5 Z Channel #9
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.839E-1 at 1198.0 Hz.	Maximum = 3.709E-1 at 1198.0 Hz.
Overall or RMS	N/A	N/A



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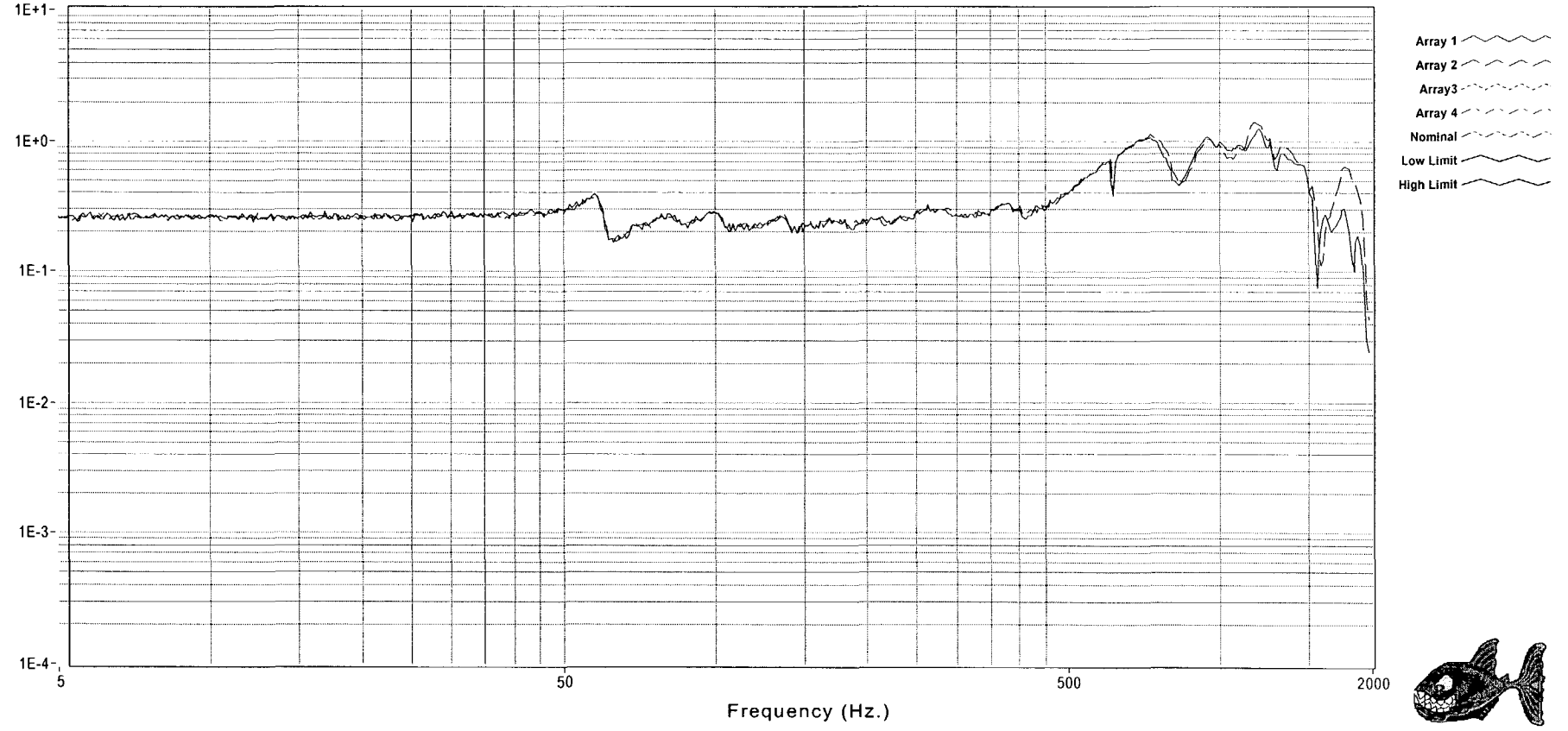
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A6 X Channel #10	A6 X Channel #10
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.238E+0 at 1198.0 Hz.	Maximum = 1.402E+0 at 1163.0 Hz.
Overall or RMS	N/A	N/A



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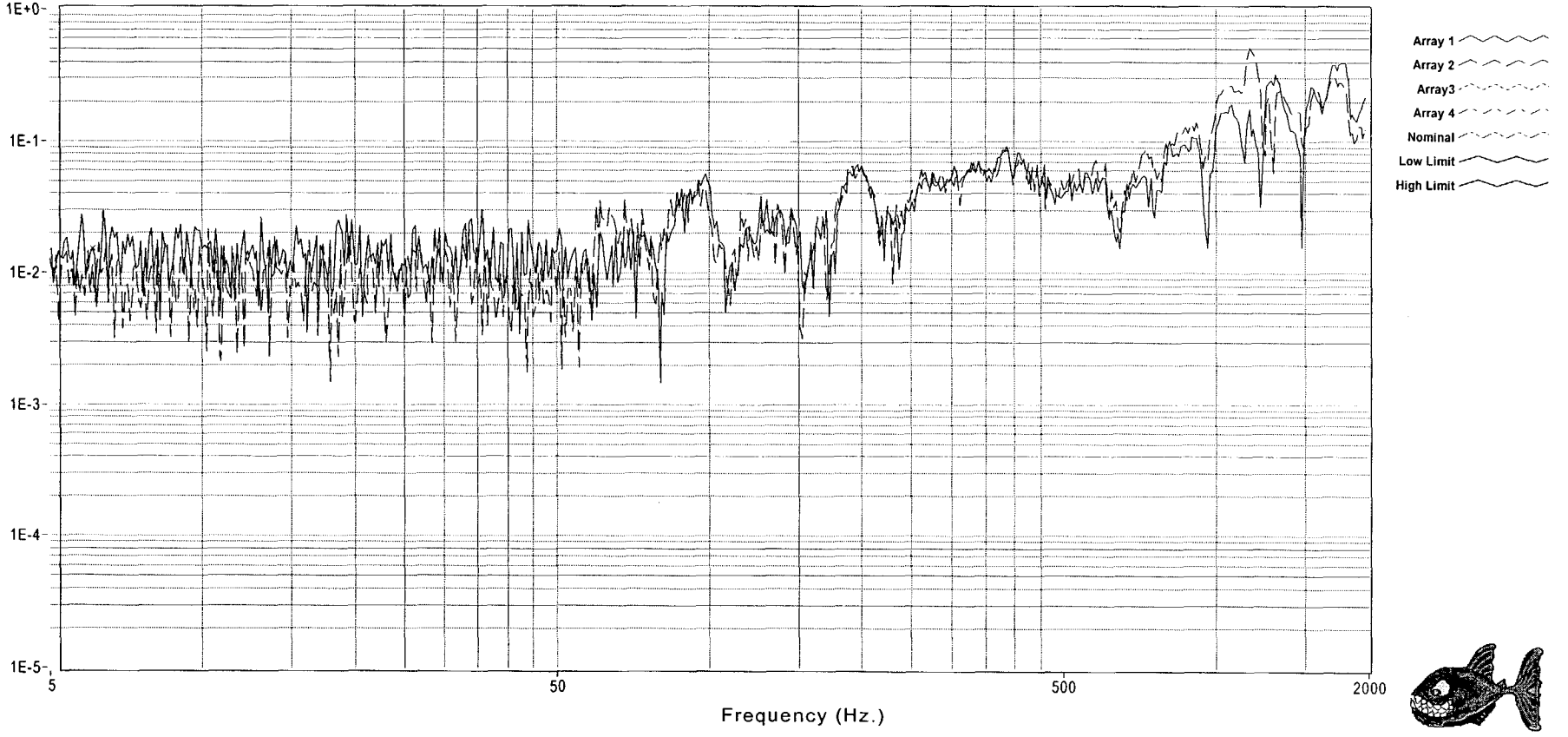
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A6 Y Channel #11	A6 Y Channel #11
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.997E-1 at 1784.0 Hz.	Maximum = 5.155E-1 at 1163.0 Hz.
Overall or RMS	N/A	N/A



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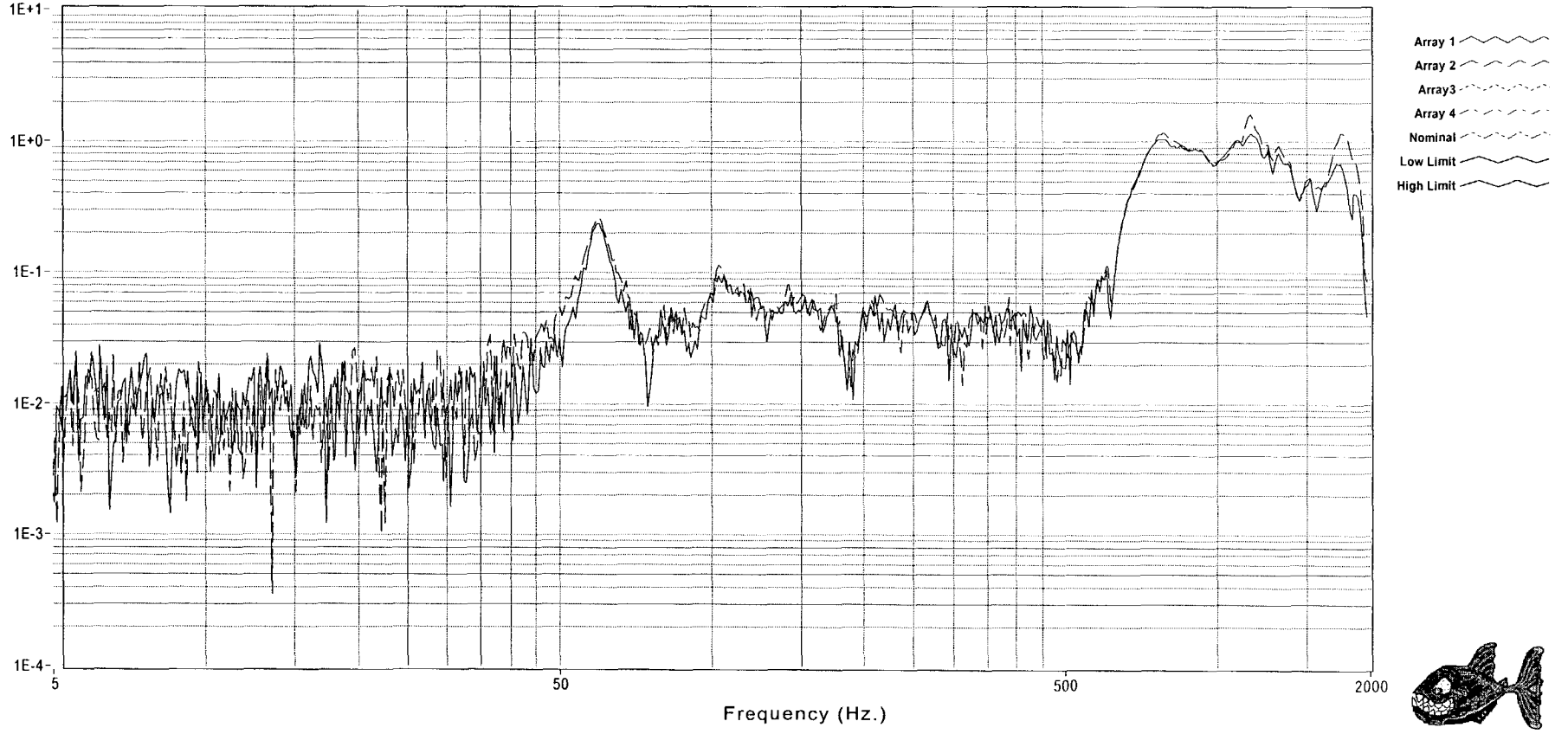
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A6 Z Channel #12	A6 Z Channel #12
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.138E+0 at 1163.0 Hz.	Maximum = 1.621E+0 at 1163.0 Hz.
Overall or RMS	N/A	N/A



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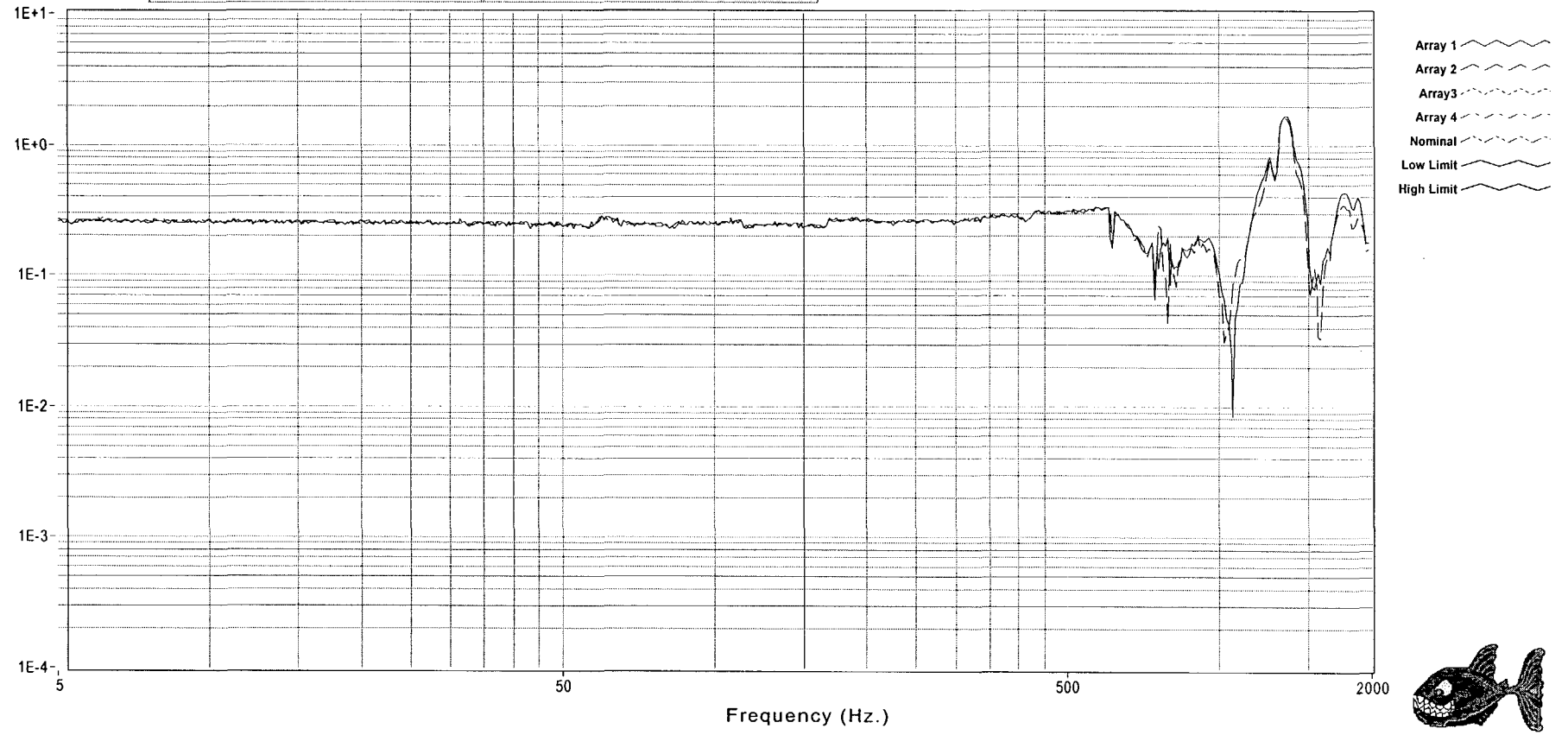
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A7 X Channel #17	A7 X Channel #17
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.684E+0 at 1350.0 Hz.	Maximum = 1.647E+0 at 1350.0 Hz.
Overall or RMS	N/A	N/A



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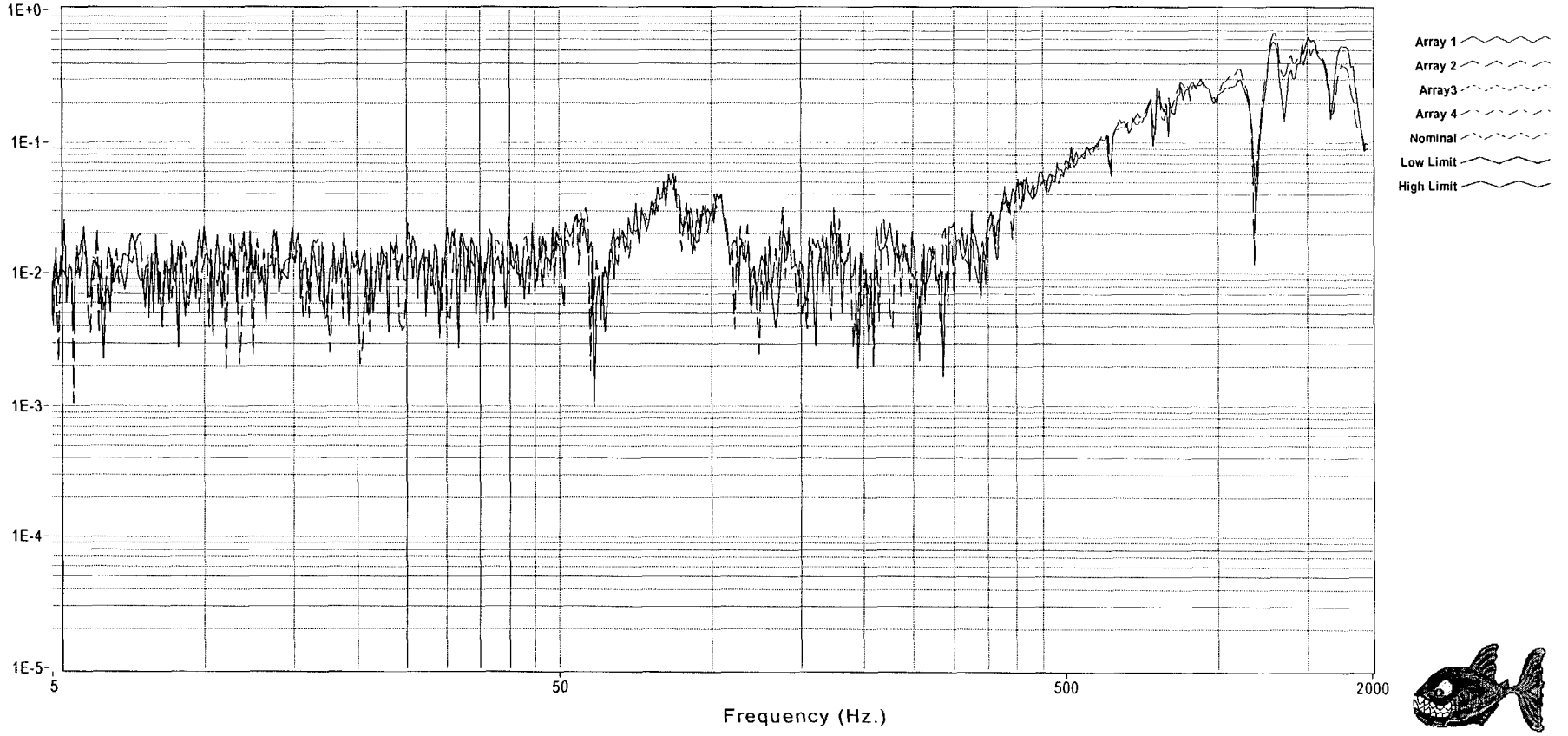
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A7 Y Channel #18	A7 Y Channel #18
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.297E-1 at 1507.0 Hz.	Maximum = 6.728E-1 at 1285.0 Hz.
Overall or RMS	N/A	N/A



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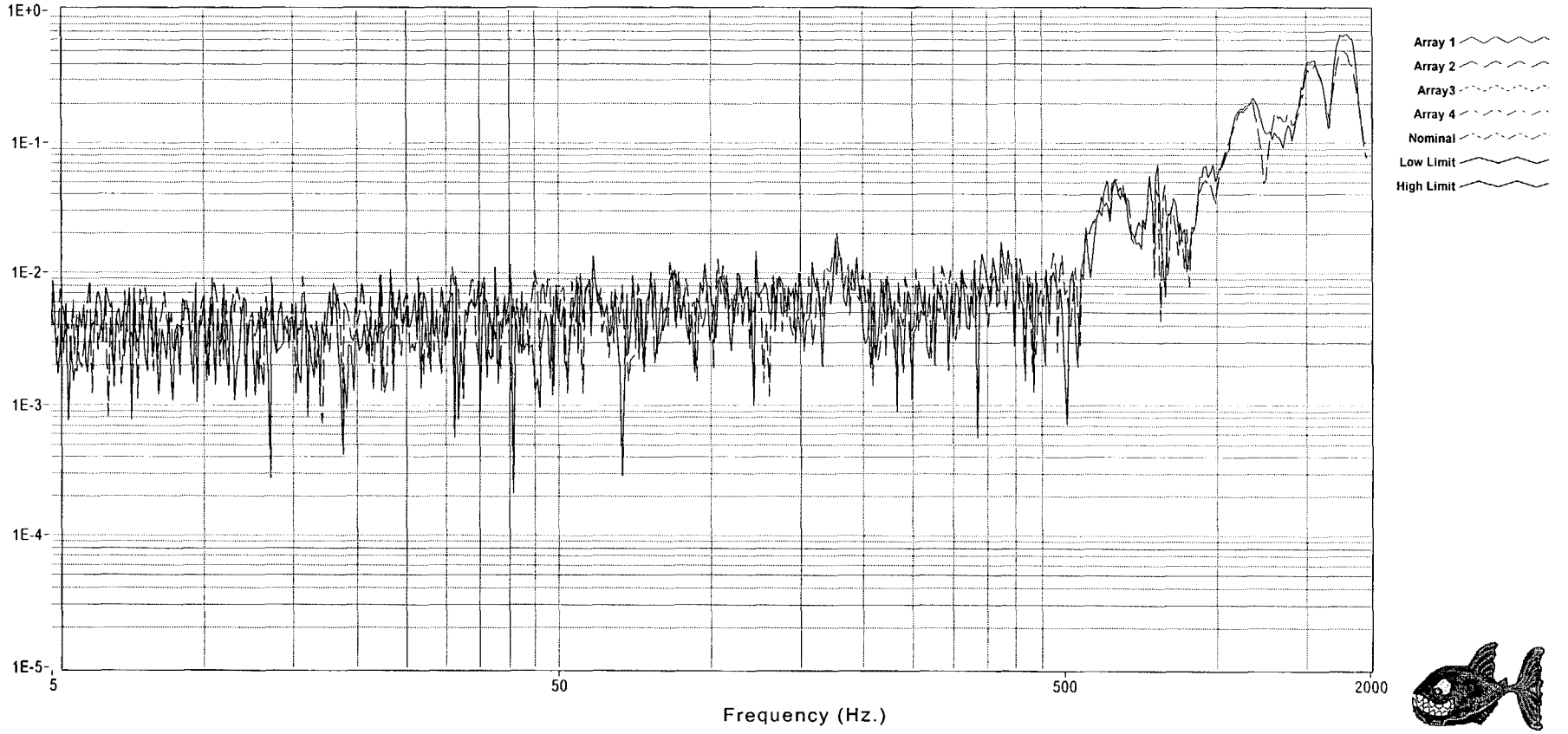
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A7 Z Channel #19	A7 Z Channel #19
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.652E-1 at 1802.0 Hz.	Maximum = 4.967E-1 at 1767.0 Hz.
Overall or RMS	N/A	N/A



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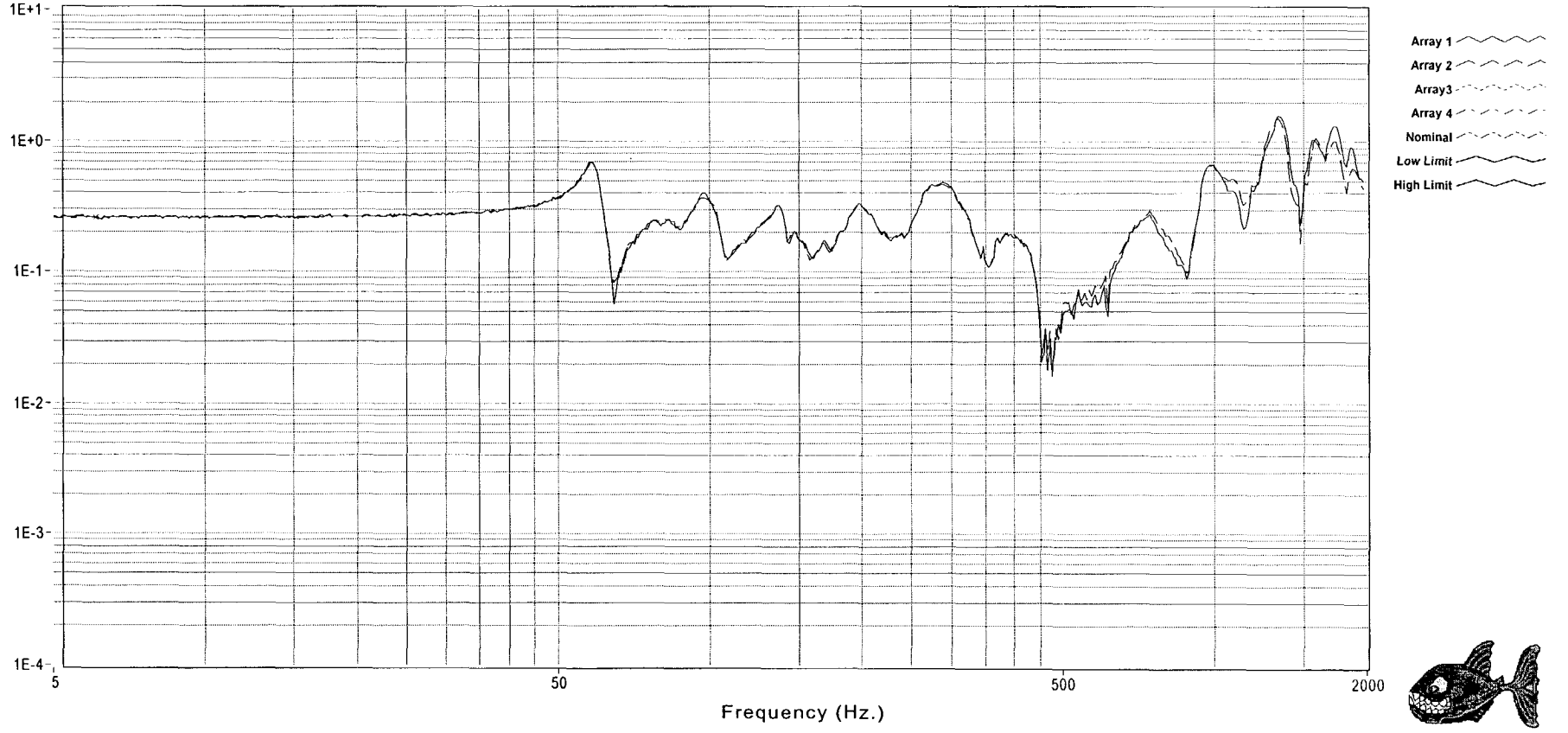
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A8 X Channel #20	A8 X Channel #20
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.566E+0 at 1337.0 Hz.	Maximum = 1.505E+0 at 1337.0 Hz.
Overall or RMS	N/A	N/A



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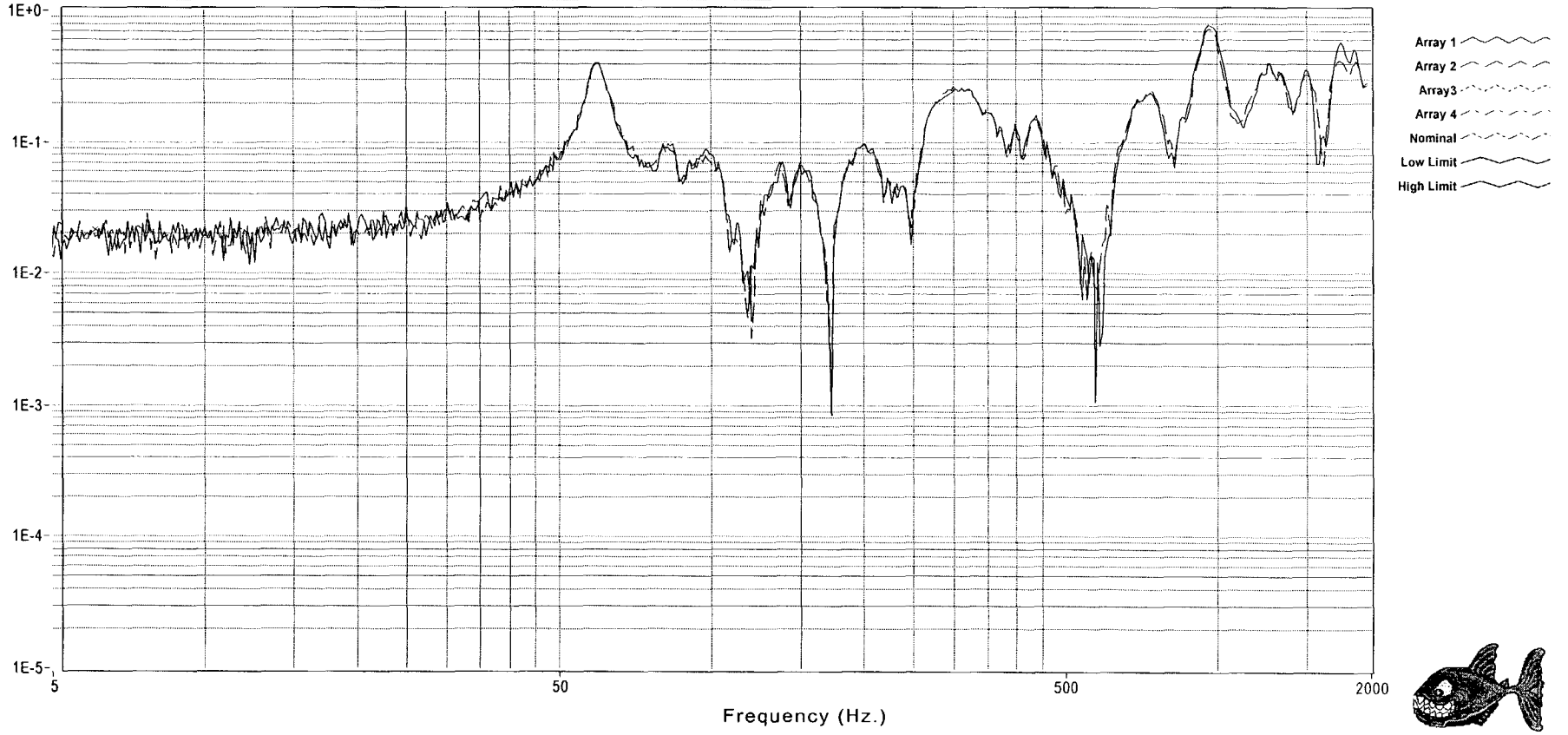
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A8 Y Channel #21	A8 Y Channel #21
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	0.01034	0.01034
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.748E-1 at 962.7 Hz.	Maximum = 7.343E-1 at 962.7 Hz.
Overall or RMS	N/A	N/A



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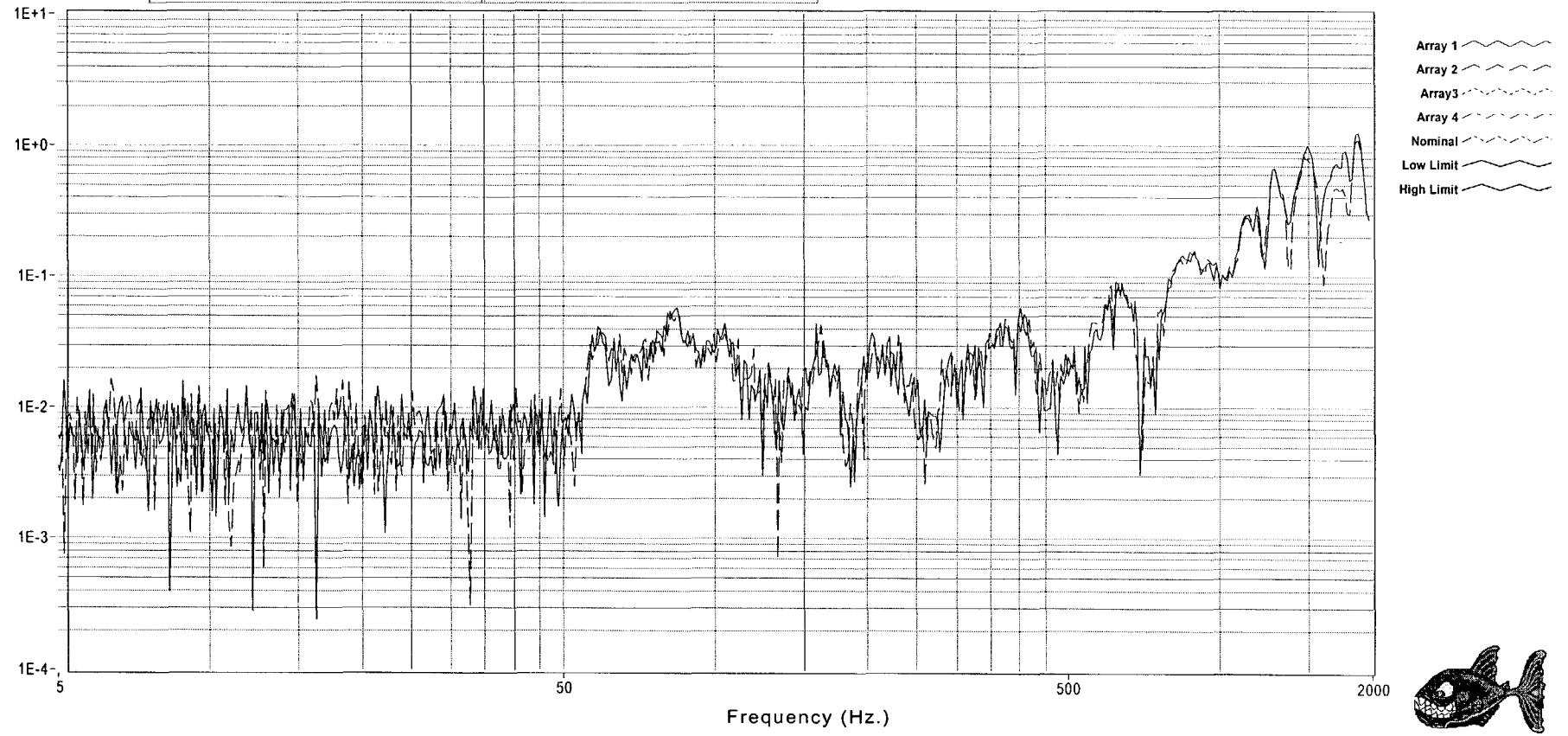
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A8 Z Channel #22	A8 Z Channel #22
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	0.01029	0.01029
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.254E+0 at 1875.0 Hz.	Maximum = 1.102E+0 at 1875.0 Hz.
Overall or RMS	N/A	N/A



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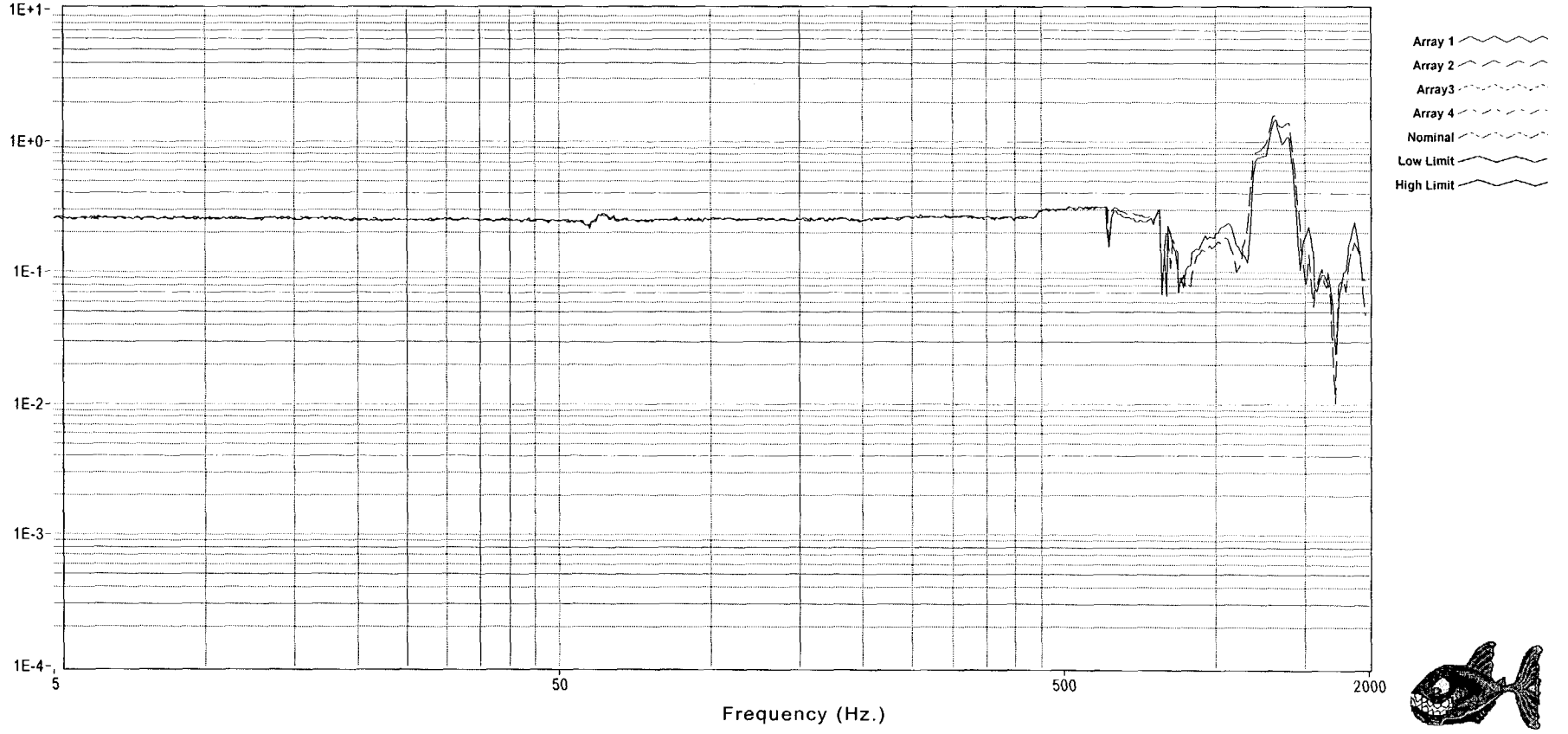
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A9 X Channel #23	A9 X Channel #23
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.493E+0 at 1311.0 Hz.	Maximum = 1.564E+0 at 1311.0 Hz.
Overall or RMS	N/A	N/A



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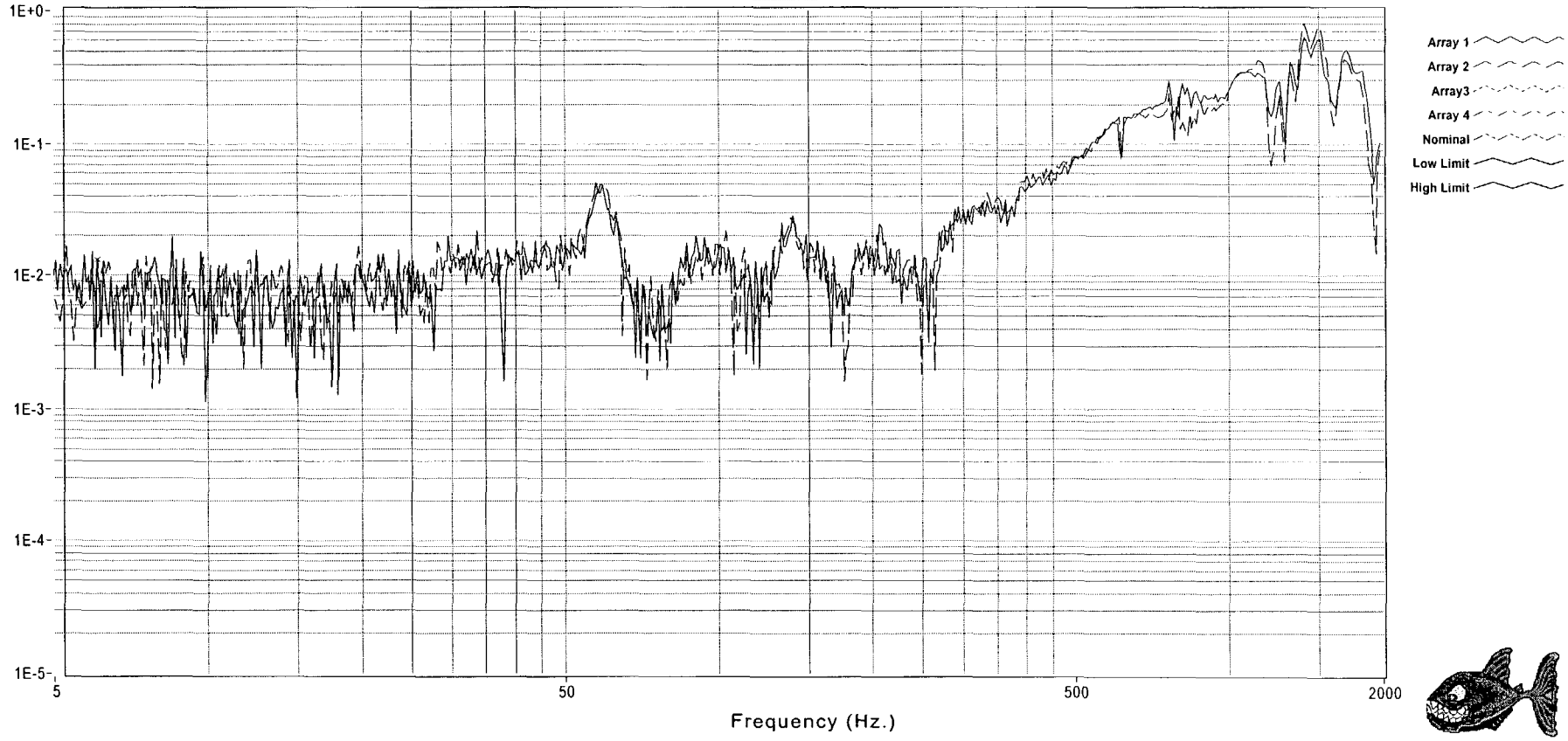
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A9 Y Channel #24	A9 Y Channel #24
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 6.314E-1 at 1405.0 Hz.	Maximum = 7.900E-1 at 1405.0 Hz.
Overall or RMS	N/A	N/A



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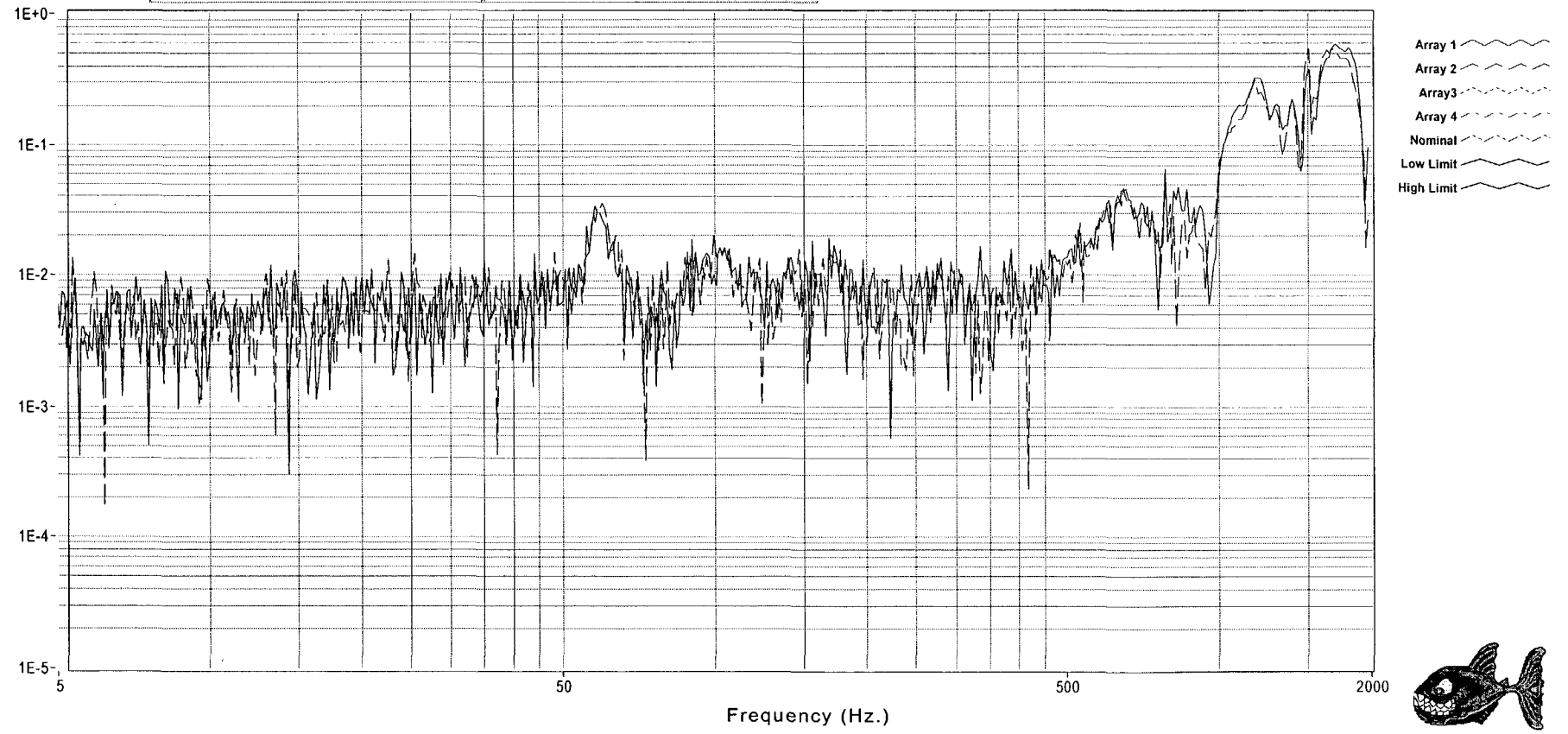
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A9 Z Channel #25	A9 Z Channel #25
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.975E-1 at 1698.0 Hz.	Maximum = 5.453E-1 at 1681.0 Hz.
Overall or RMS	N/A	N/A



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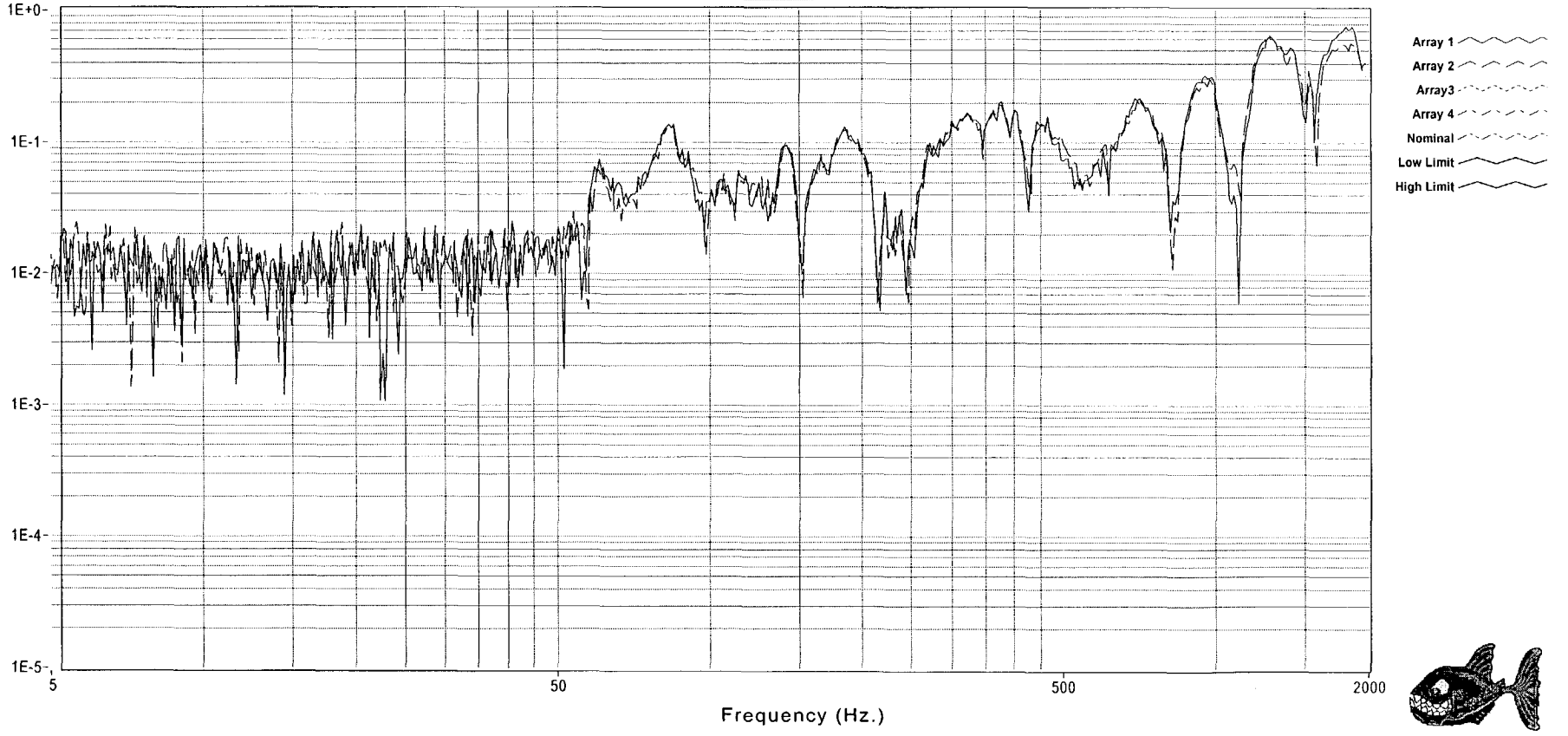
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A10 X Channel #26	A10 X Channel #26
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.606E-1 at 1857.0 Hz.	Maximum = 6.590E-1 at 1272.0 Hz.
Overall or RMS	N/A	N/A



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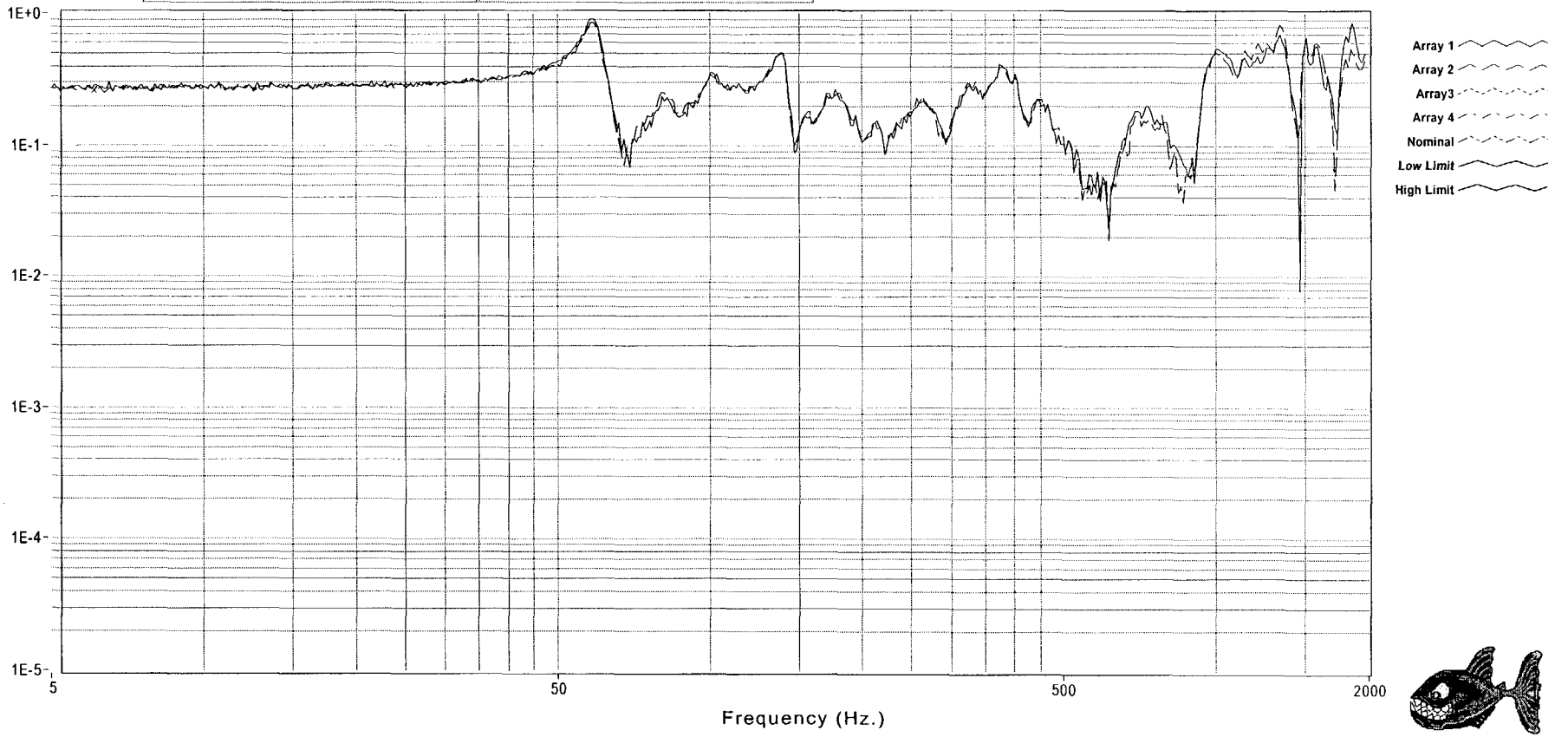
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A10 Y Channel #27	A10 Y Channel #27
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.288E-1 at 58.8 Hz.	Maximum = 8.629E-1 at 58.8 Hz.
Overall or RMS	N/A	N/A



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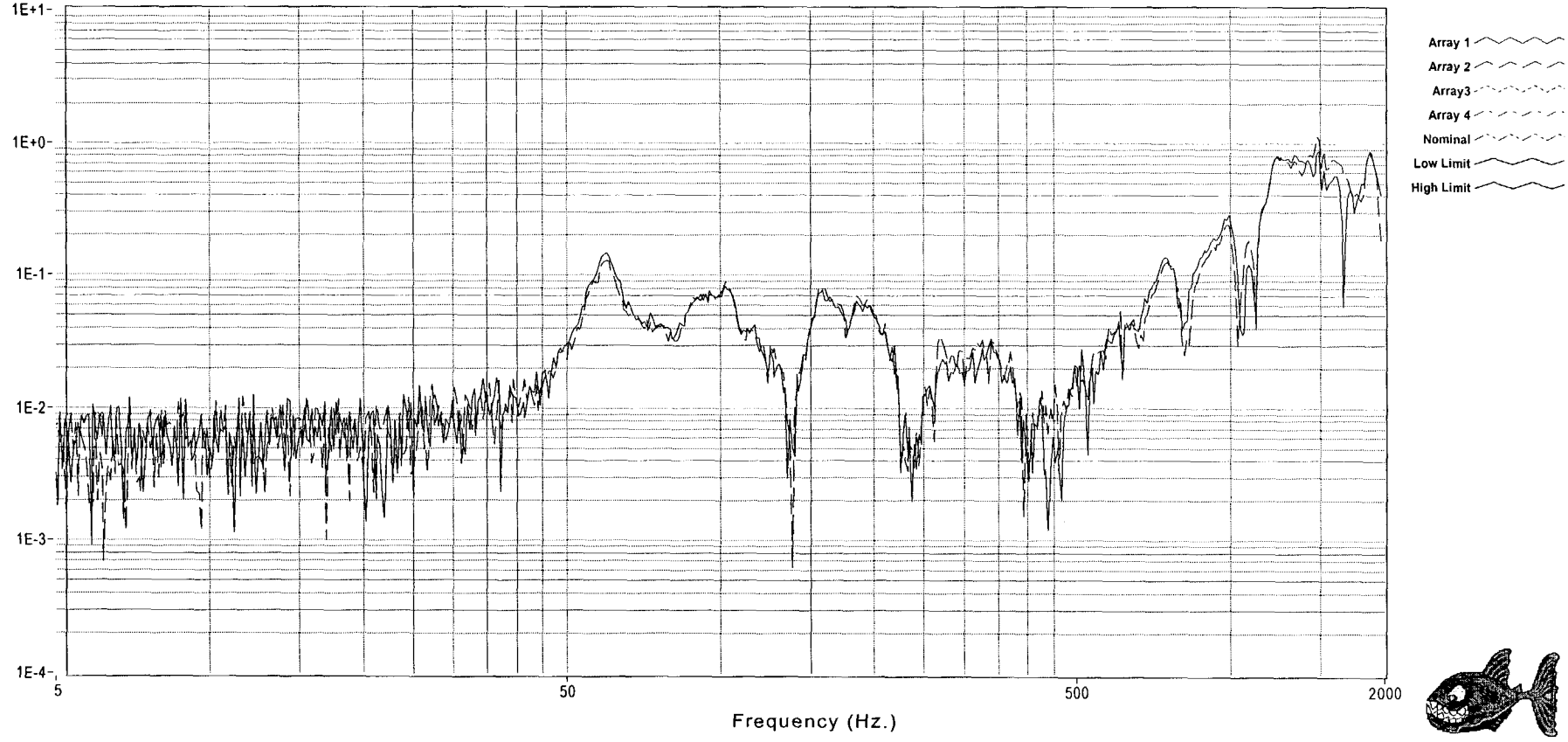
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A10 Z Channel #28	A10 Z Channel #28
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 8.765E-1 at 1875.0 Hz.	Maximum = 1.134E+0 at 1477.0 Hz.
Overall or RMS	N/A	N/A



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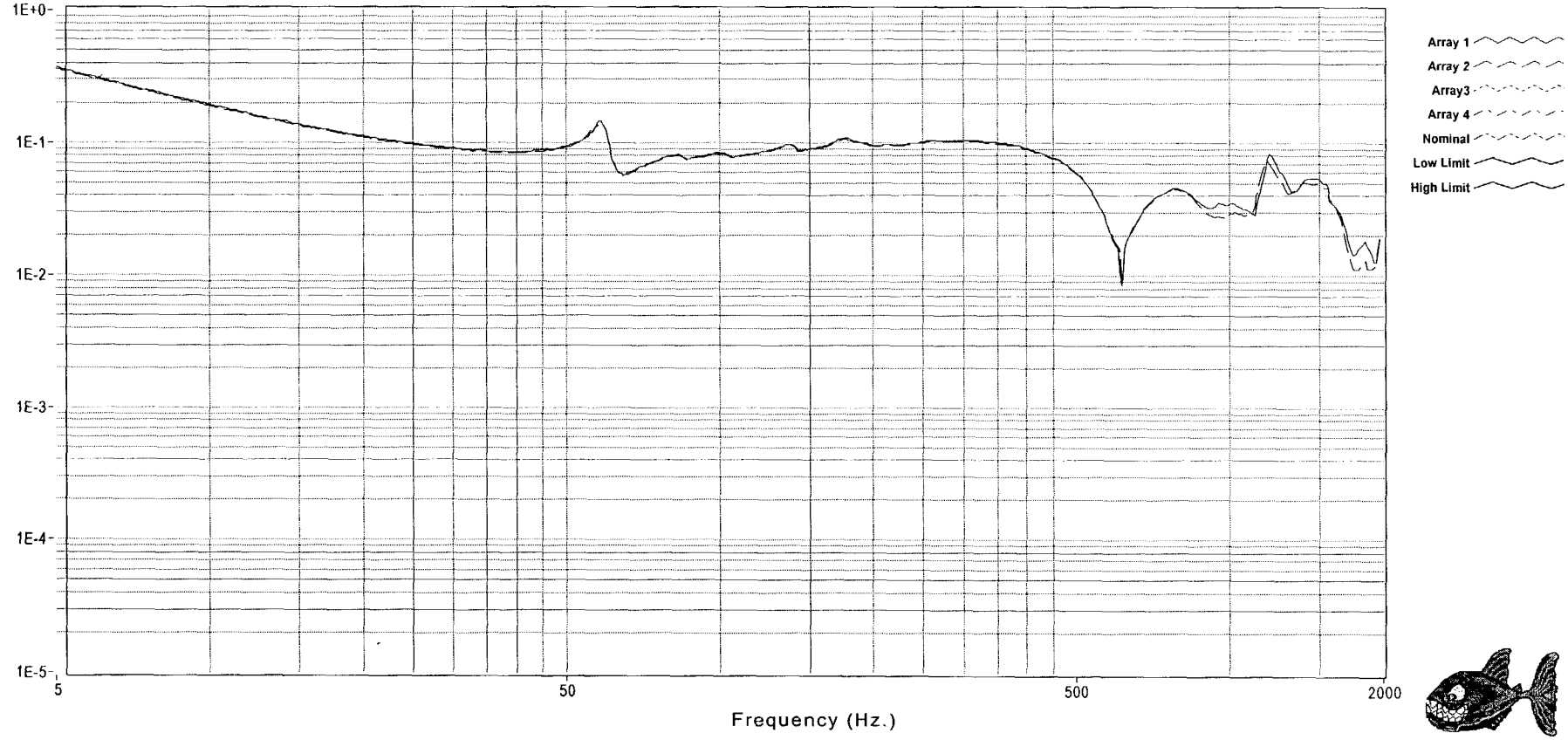
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	DRIVE Channel #31	DRIVE Channel #31
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.260E-1 at 4.9 Hz.	Maximum = 4.144E-1 at 4.9 Hz.
Overall or RMS	N/A	N/A



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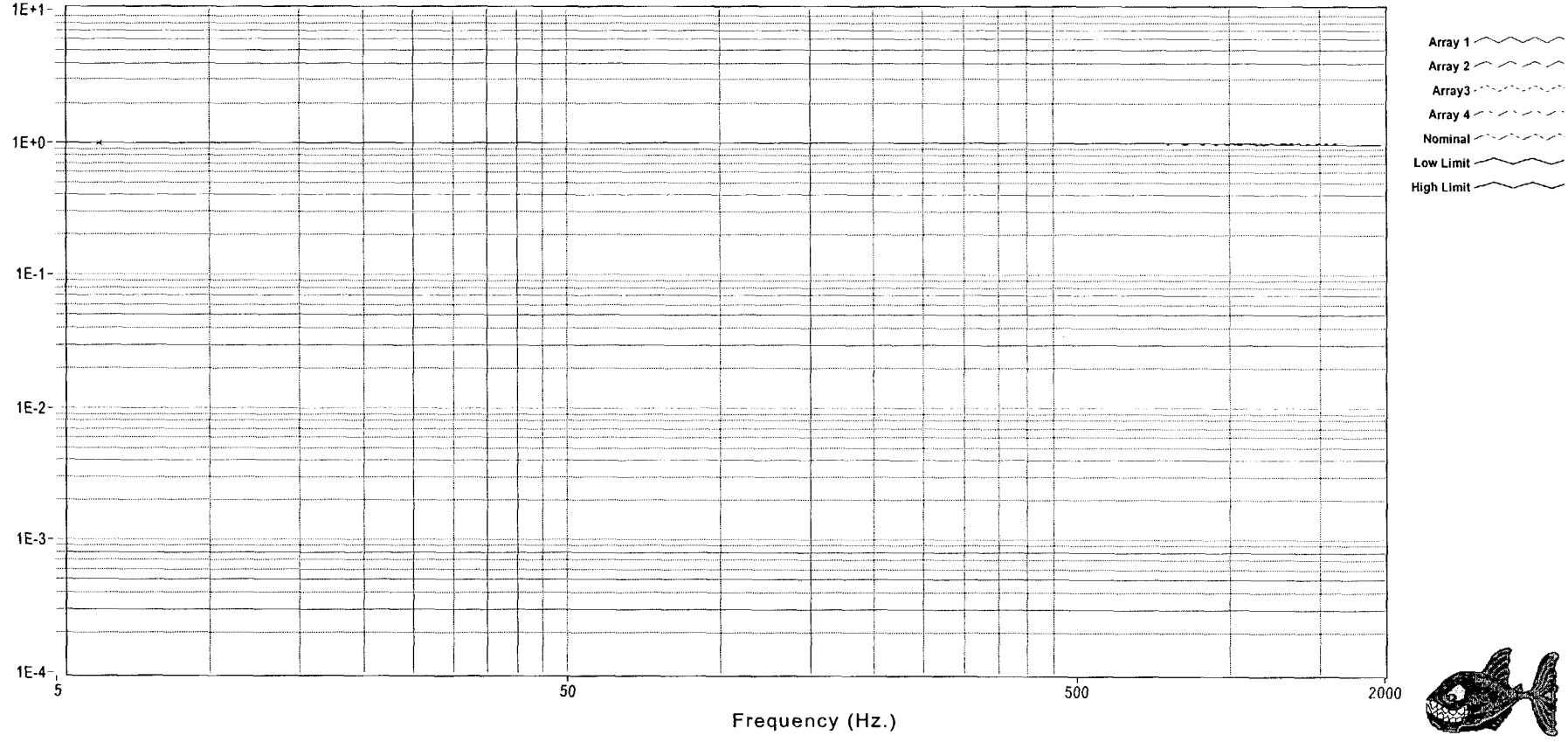
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	COLA Channel #32	COLA Channel #32
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	key word not found	key word not found
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.100E+0 at 4.9 Hz.	Maximum = 1.099E+0 at 4.9 Hz.
Overall or RMS	N/A	N/A



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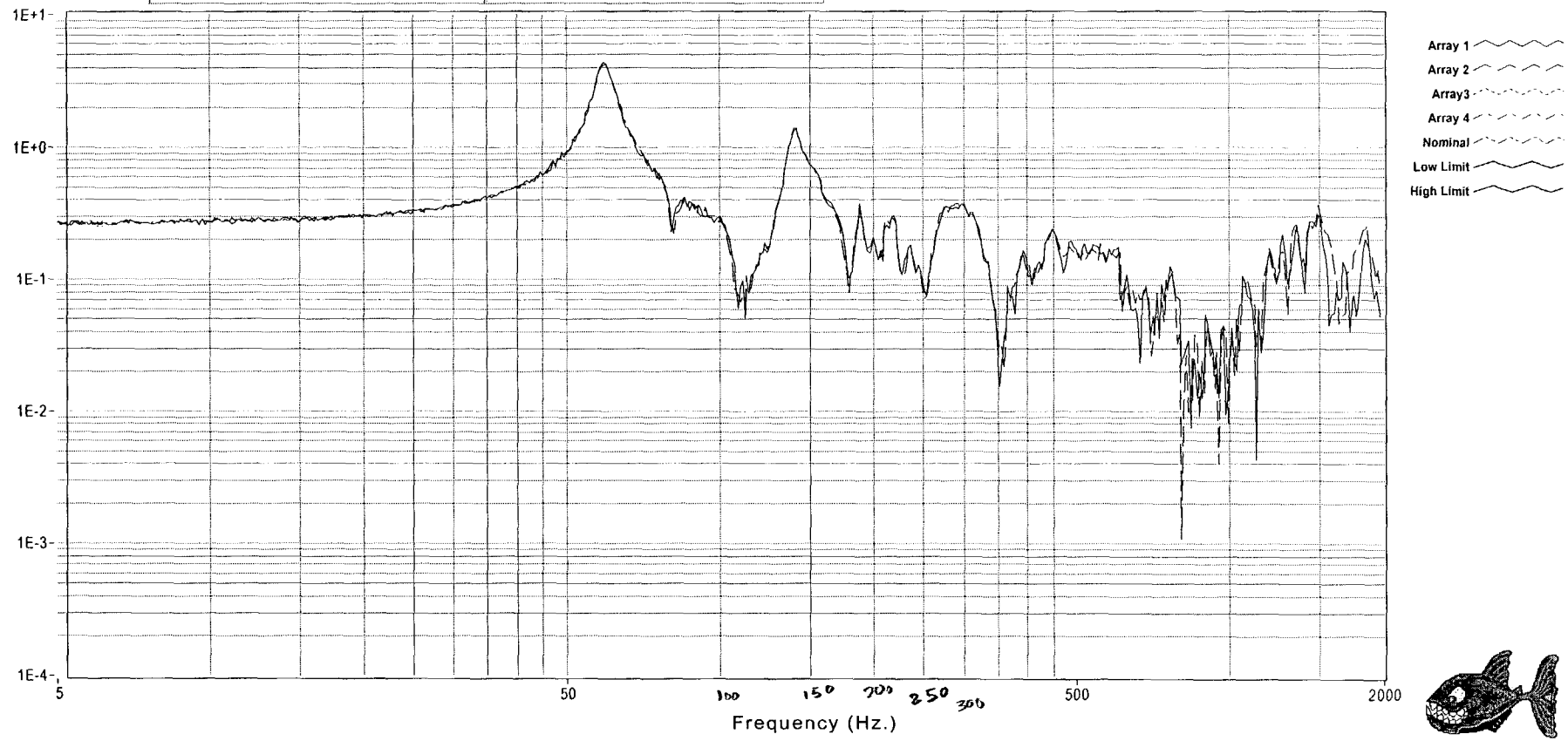
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A1X: +Y PANEL UPPER Channel #33	A1X: +Y PANEL UPPER Channel #33
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 1 SN=AE71-1	BOX 3 CH 1 SN=AE71-1
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.271E+0 at 59.4 Hz.	Maximum = 4.147E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



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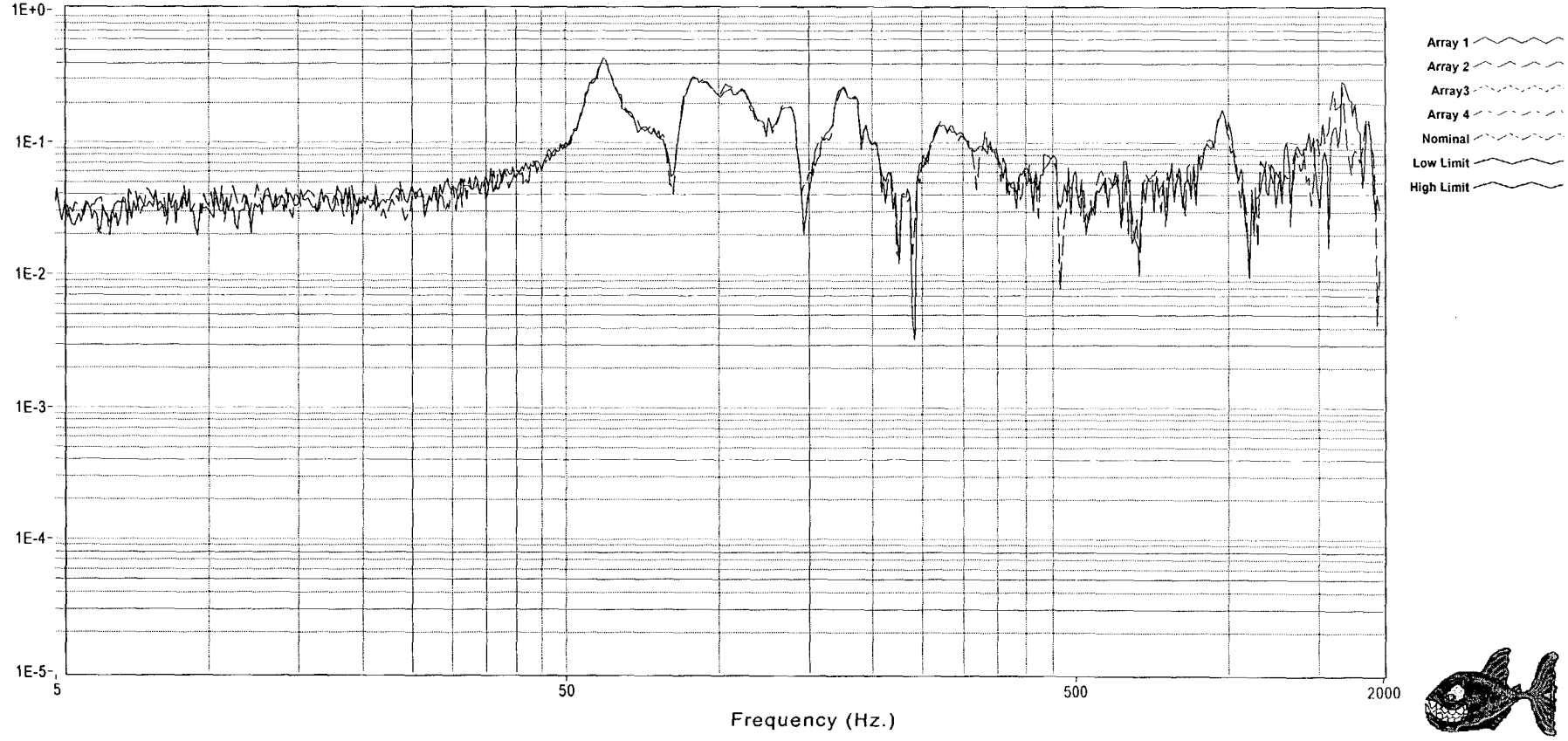
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A1Z: +Y PANEL UPPER Channel #35	A1Z: +Y PANEL UPPER Channel #35
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 3 SN=AD72	BOX 3 CH 3 SN=AD72
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.318E-1 at 59.4 Hz.	Maximum = 4.002E-1 at 60.0 Hz.
Overall or RMS	N/A	N/A



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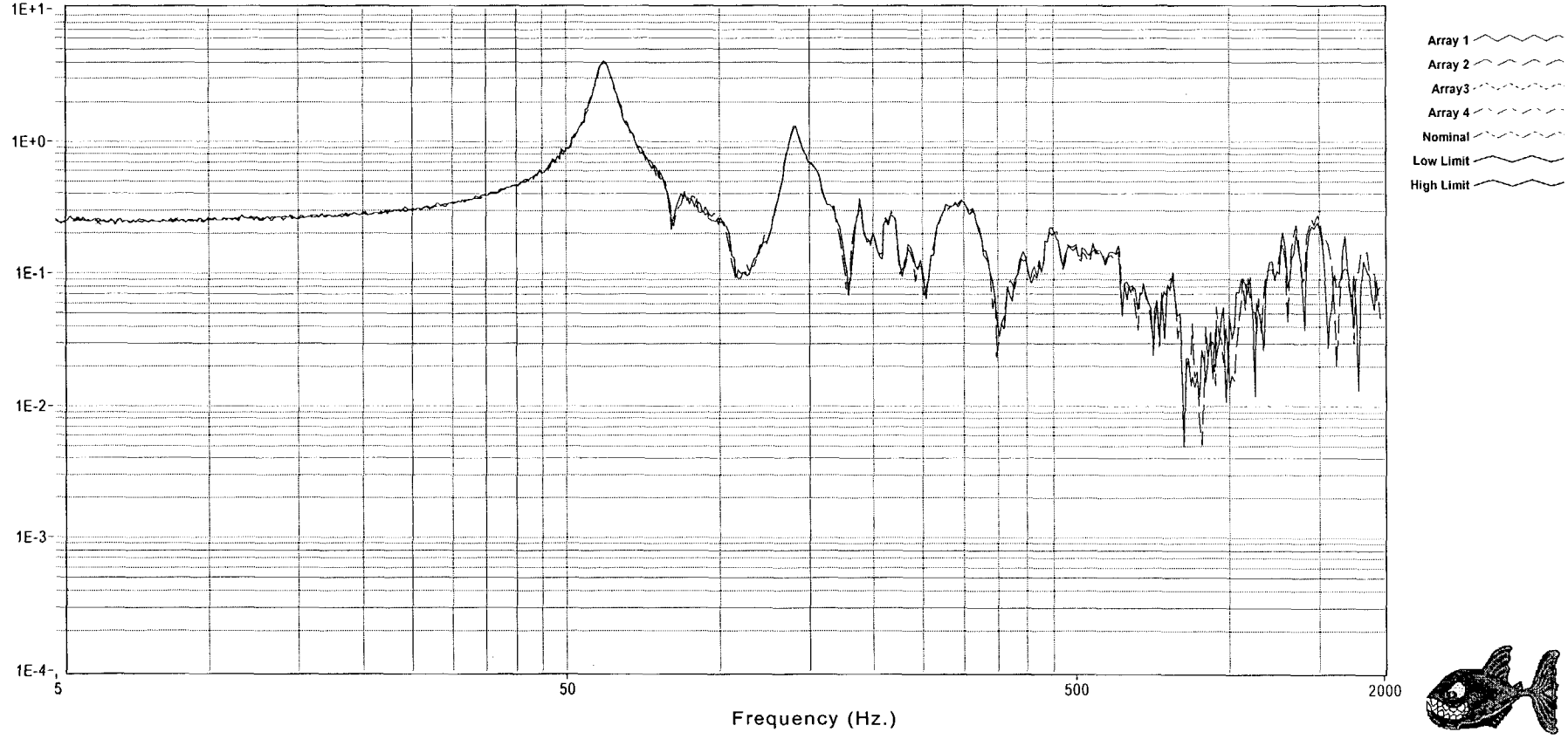
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A1RX: +Y PANEL UPPERChannel #36	A1RX: +Y PANEL UPPERChannel #36
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 4 SN=AF35	BOX 3 CH 4 SN=AF35
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.038E+0 at 59.4 Hz.	Maximum = 3.906E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



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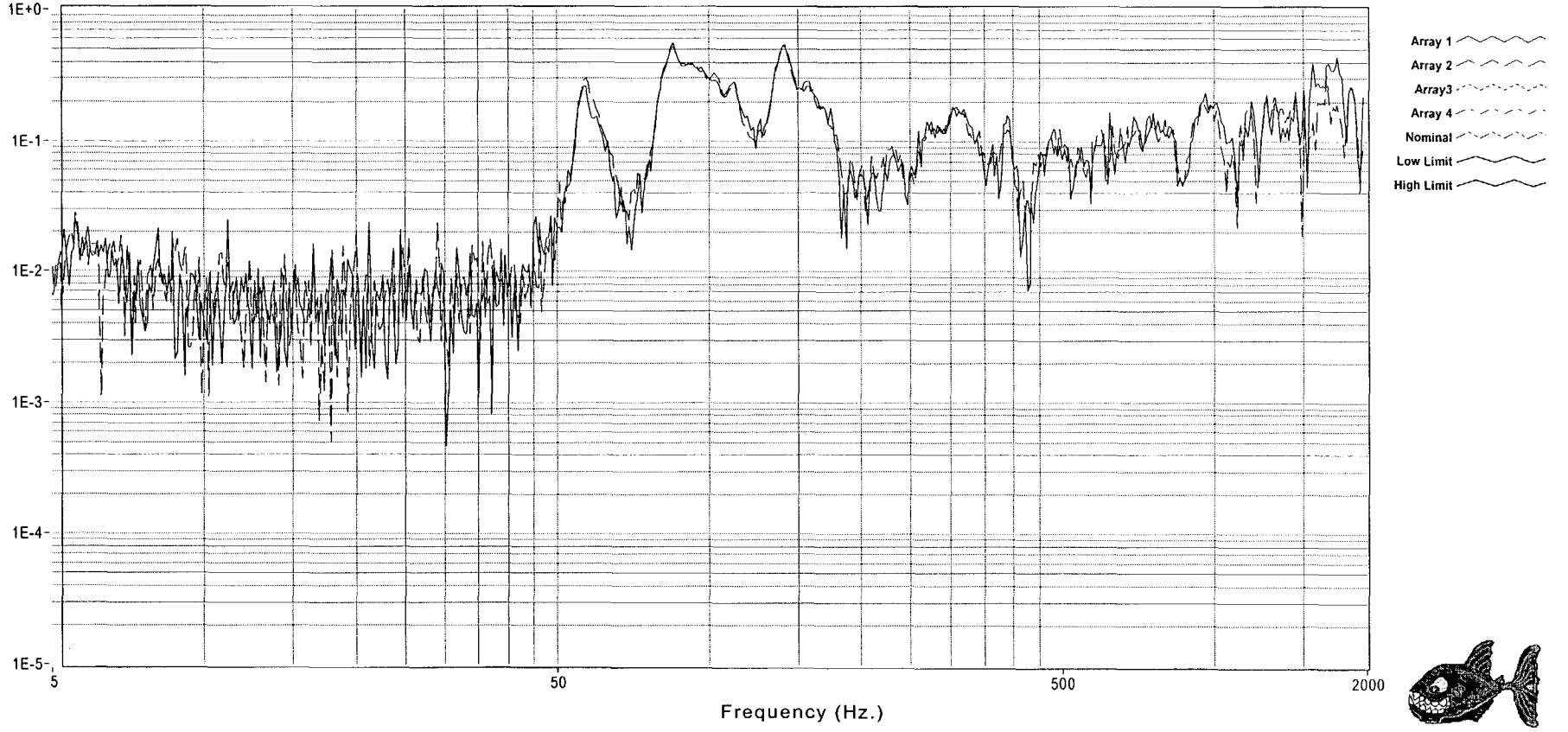
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A1RY: +Y PANEL UPPERChannel #37	A1RY: +Y PANEL UPPERChannel #37
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 5 SN=AB88	BOX 3 CH 5 SN=AB88
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.435E-1 at 141.1 Hz.	Maximum = 5.577E-1 at 84.9 Hz.
Overall or RMS	N/A	N/A



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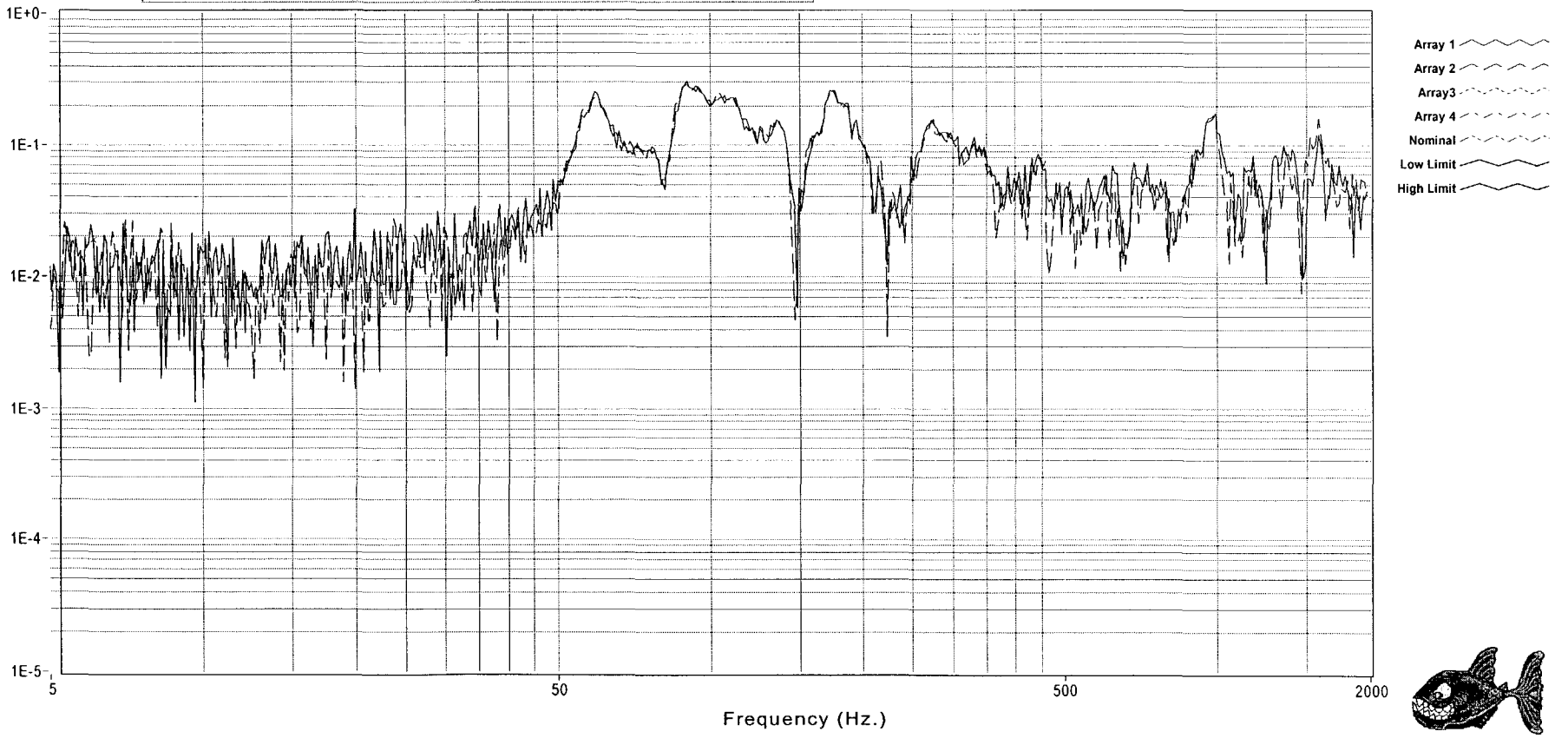
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A1RZ: +Y PANEL UPPERChannel #38	A1RZ: +Y PANEL UPPERChannel #38
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 6 SN=AG51	BOX 3 CH 6 SN=AG51
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.107E-1 at 90.2 Hz.	Maximum = 2.885E-1 at 90.2 Hz.
Overall or RMS	N/A	N/A



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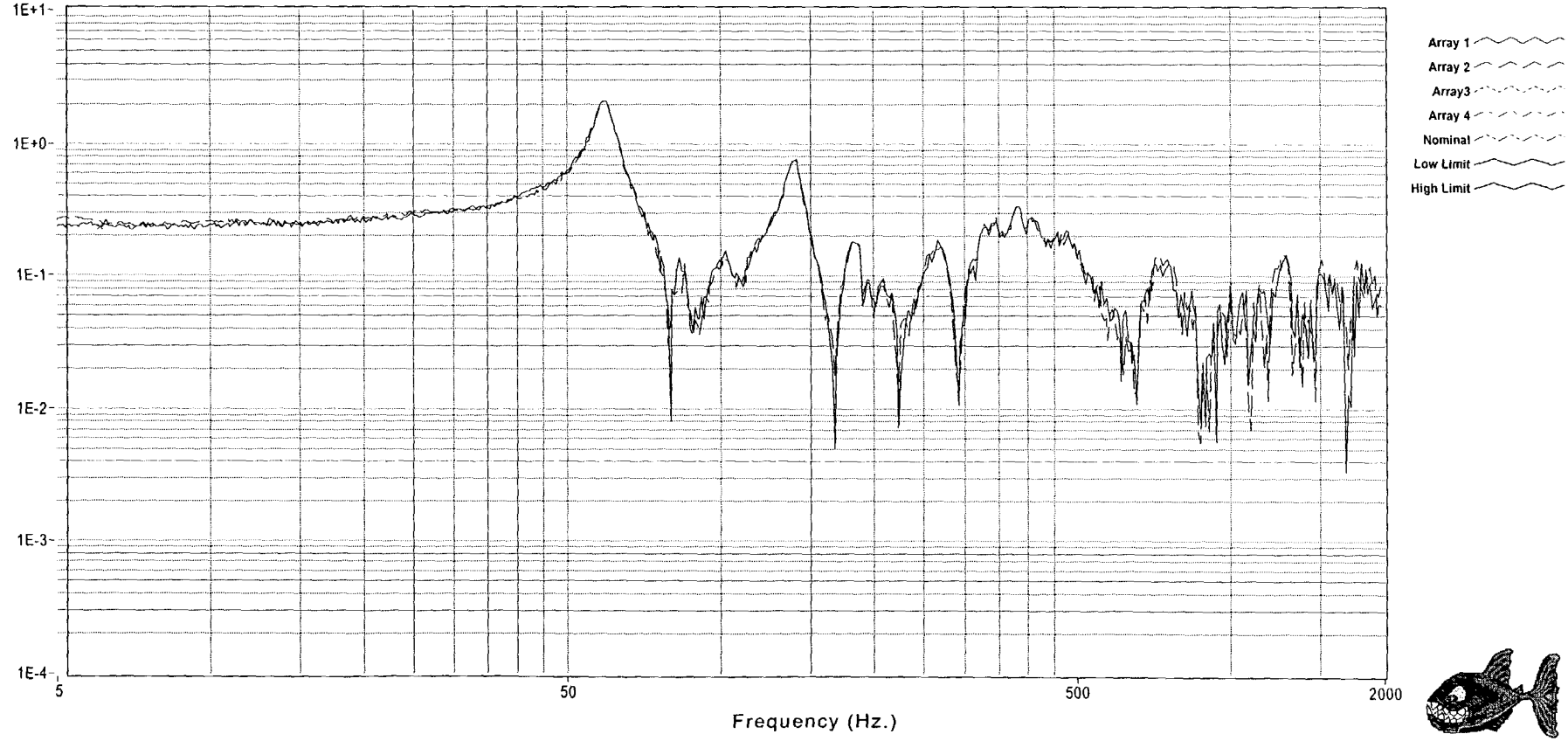
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A2X: +Y PANEL LOWER TEST Channel #39	A2X: +Y PANEL LOWER TEST Channel #39
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 7 SN=AK10	BOX 3 CH 7 SN=AK10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.123E+0 at 59.4 Hz.	Maximum = 2.085E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



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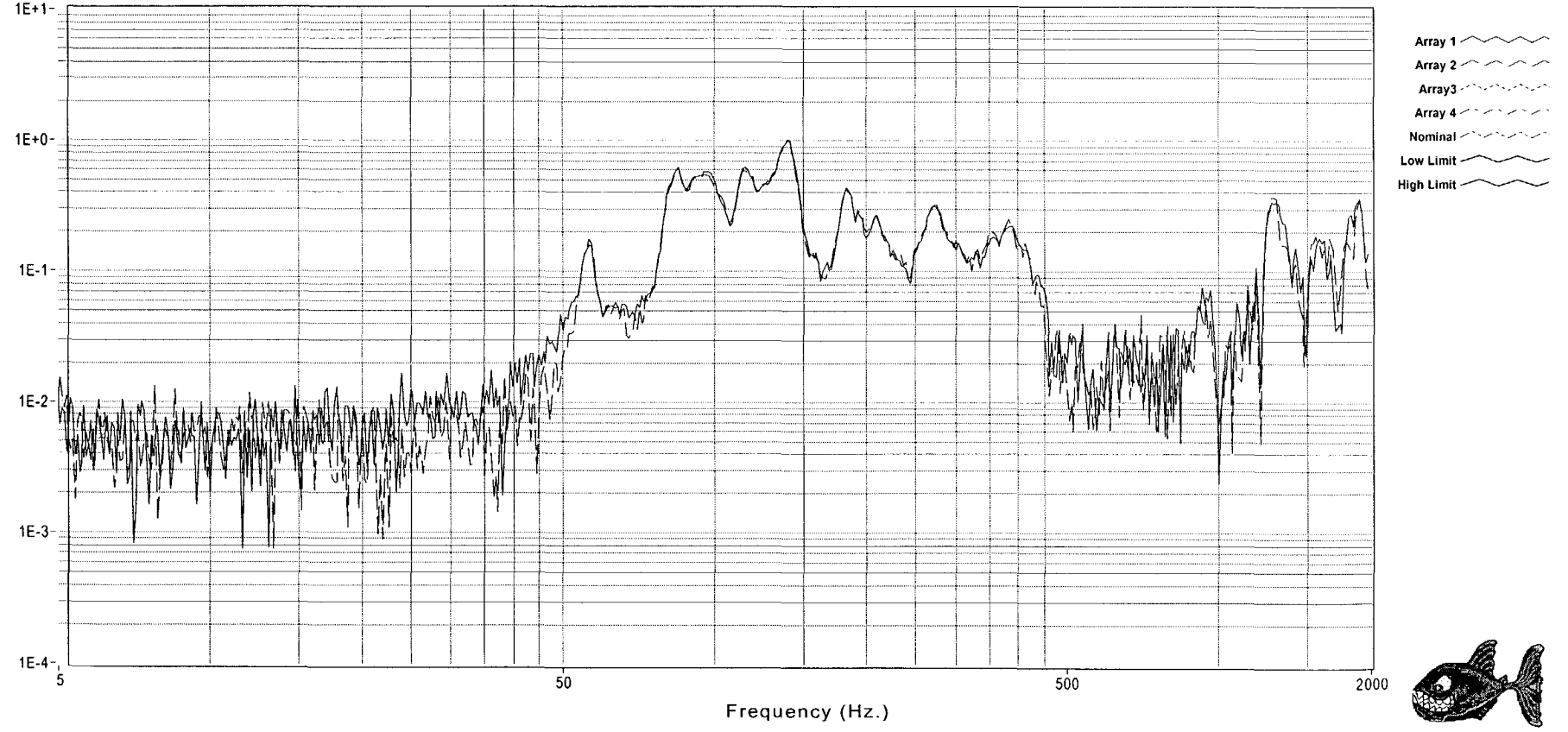
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A2Y: +Y PANEL LOWER CEN Channel #40	A2Y: +Y PANEL LOWER CEN Channel #40
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 8 SN=AB06	BOX 3 CH 8 SN=AB06
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 9.868E-1 at 139.7 Hz.	Maximum = 1.015E+0 at 139.7 Hz.
Overall or RMS	N/A	N/A



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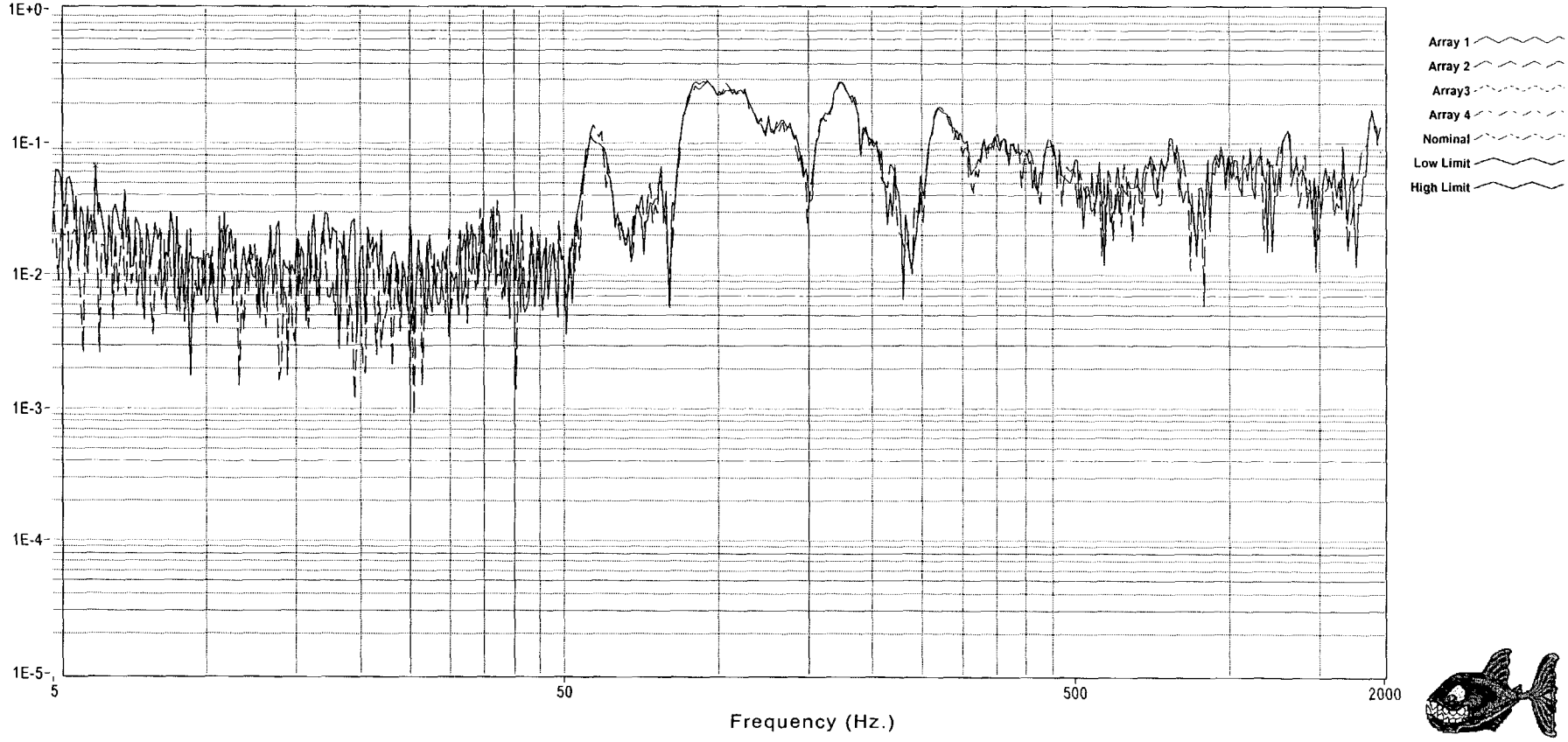
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A2Z: +Y PANEL LOWER Channel #41	A2Z: +Y PANEL LOWER Channel #41
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 9 SN=AF28	BOX 3 CH 9 SN=AF28
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.942E-1 at 95.7 Hz.	Maximum = 2.907E-1 at 173.9 Hz.
Overall or RMS	N/A	N/A



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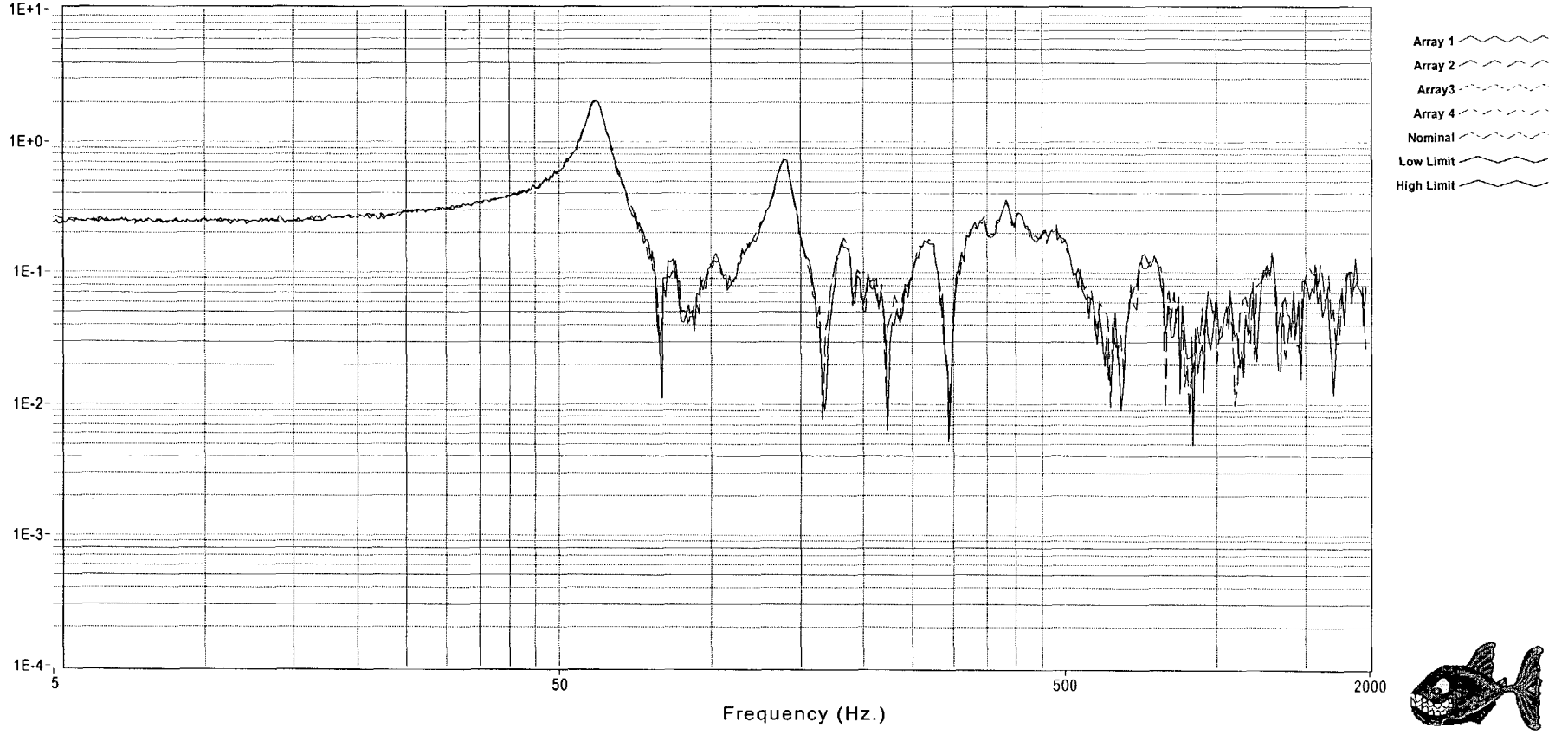
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A2RX: +Y PANEL LOWER TEST Channel #42	A2RX: +Y PANEL LOWER TEST Channel #42
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 10 SN=AJ30	BOX 3 CH 10 SN=AJ30
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.051E+0 at 59.4 Hz.	Maximum = 2.011E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



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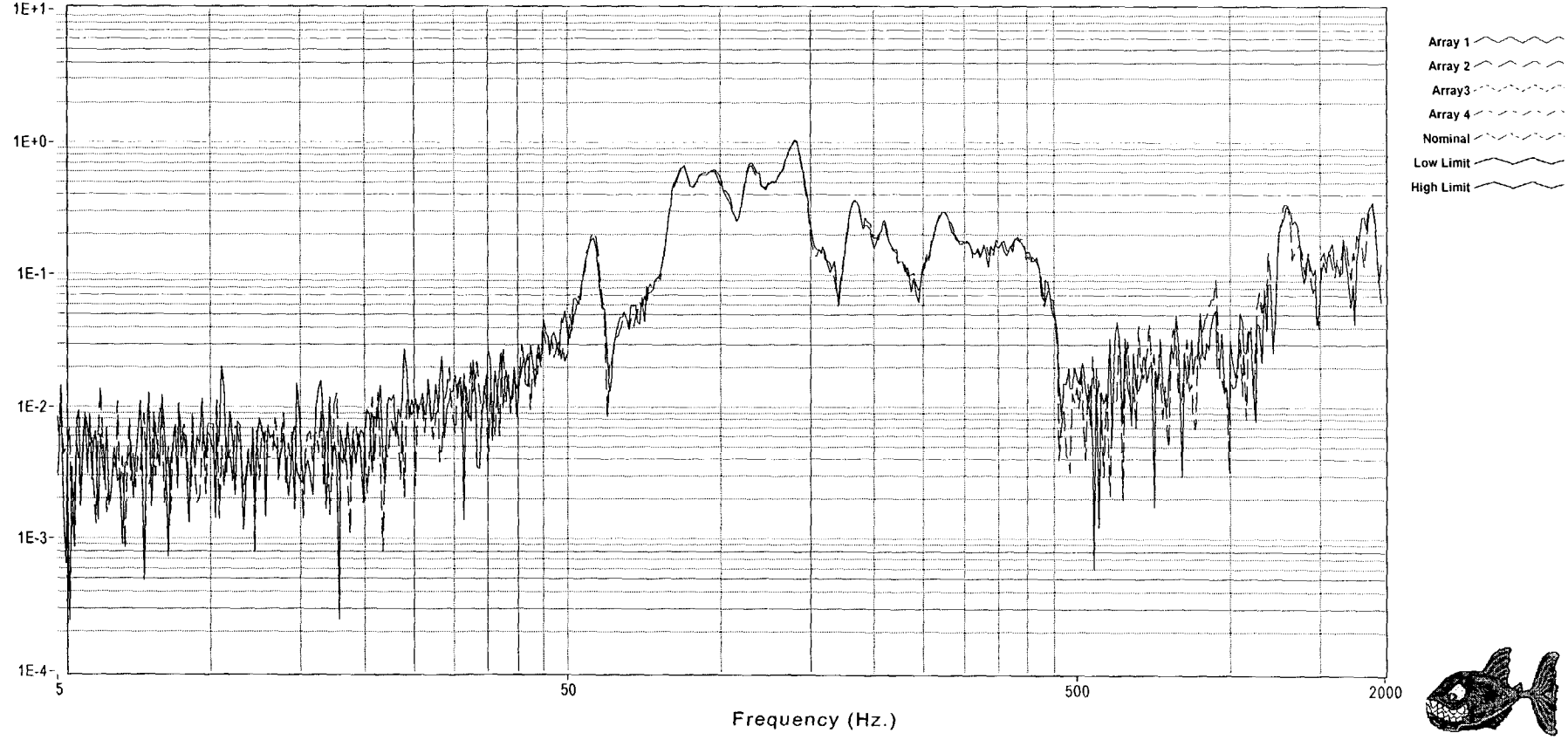
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A2RY: +Y PANEL LOWER CTE Channel #43	A2RY: +Y PANEL LOWER CTE Channel #43
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 11 SN=AE60	BOX 3 CH 11 SN=AE60
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.005E+0 at 139.7 Hz.	Maximum = 1.037E+0 at 139.7 Hz.
Overall or RMS	N/A	N/A



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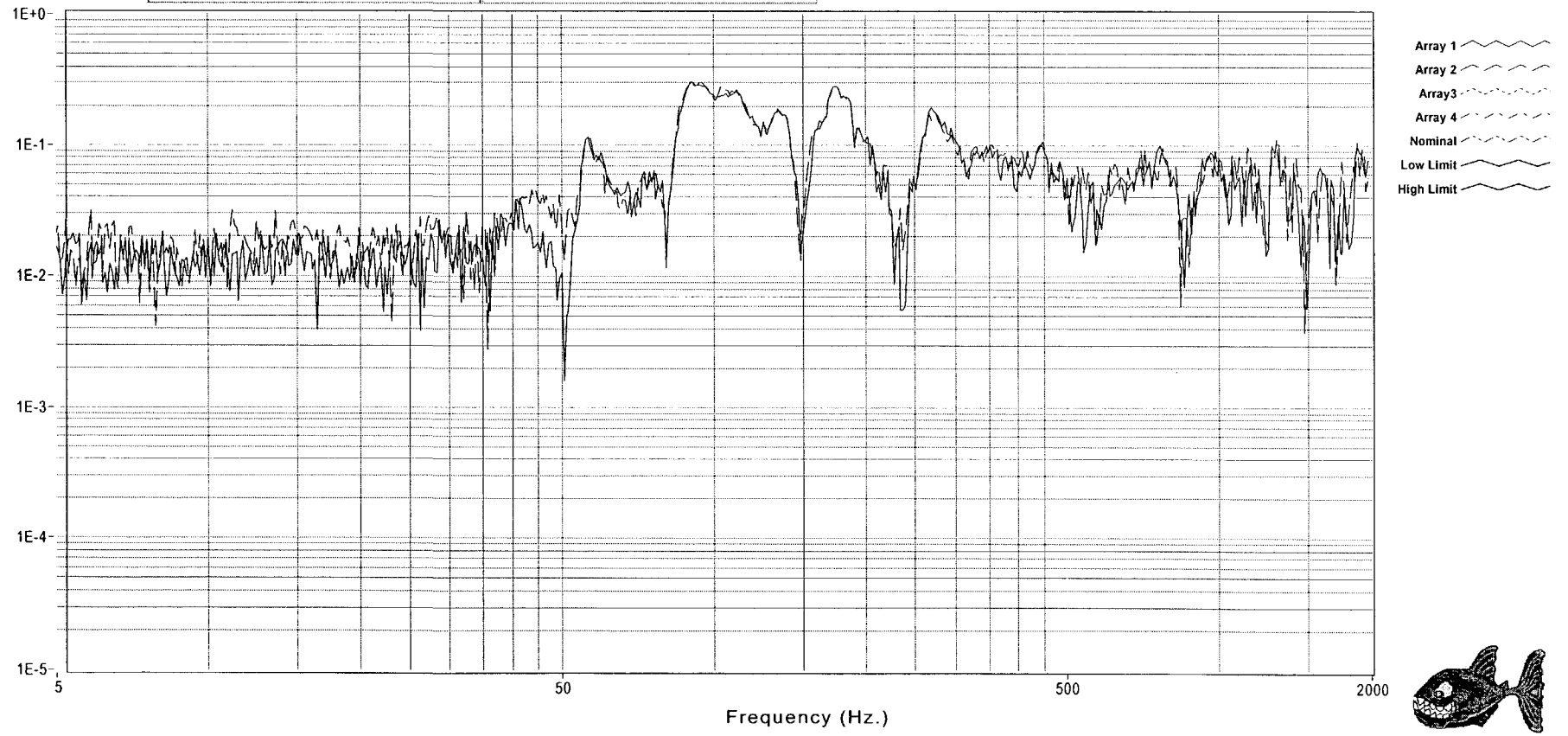
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A2RZ: +Y PANEL LOWER CTE Channel #44	A2RZ: +Y PANEL LOWER CTE Channel #44
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 12 SN=AG01	BOX 3 CH 12 SN=AG01
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.070E-1 at 90.2 Hz.	Maximum = 3.124E-1 at 90.2 Hz.
Overall or RMS	N/A	N/A



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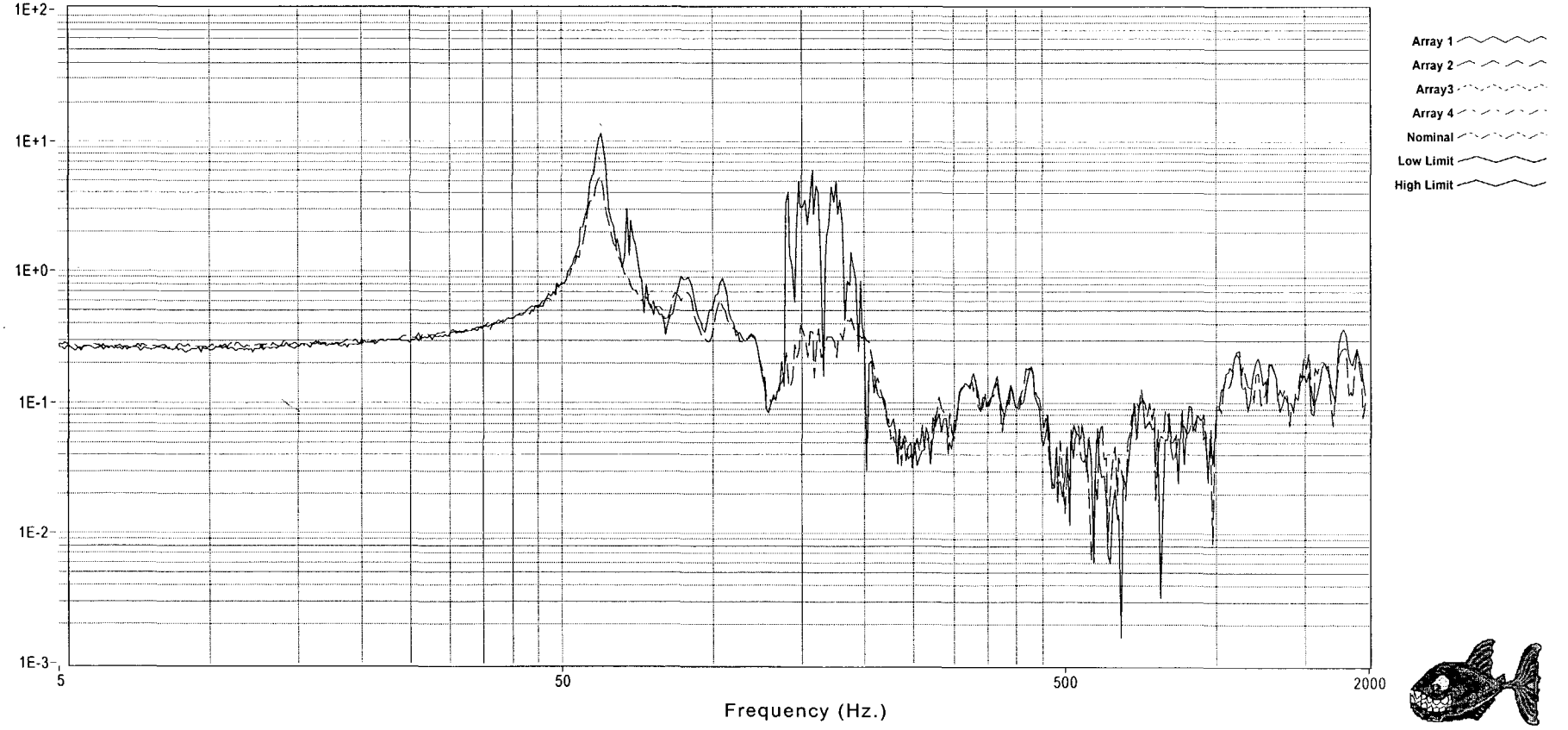
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A3X: +X PANEL UPPER CCChannel #45	A3X: +X PANEL UPPER CChannel #45
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 13 SN=BC39
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.140E+1 at 60.0 Hz.	Maximum = 5.389E+0 at 60.0 Hz.
Overall or RMS	N/A	N/A

Do Not use this signature overlay.
Investigation indicates that Chanel 45 was not working properly @ the begin of X-Axis Vib.
See detailed report & additional plots.



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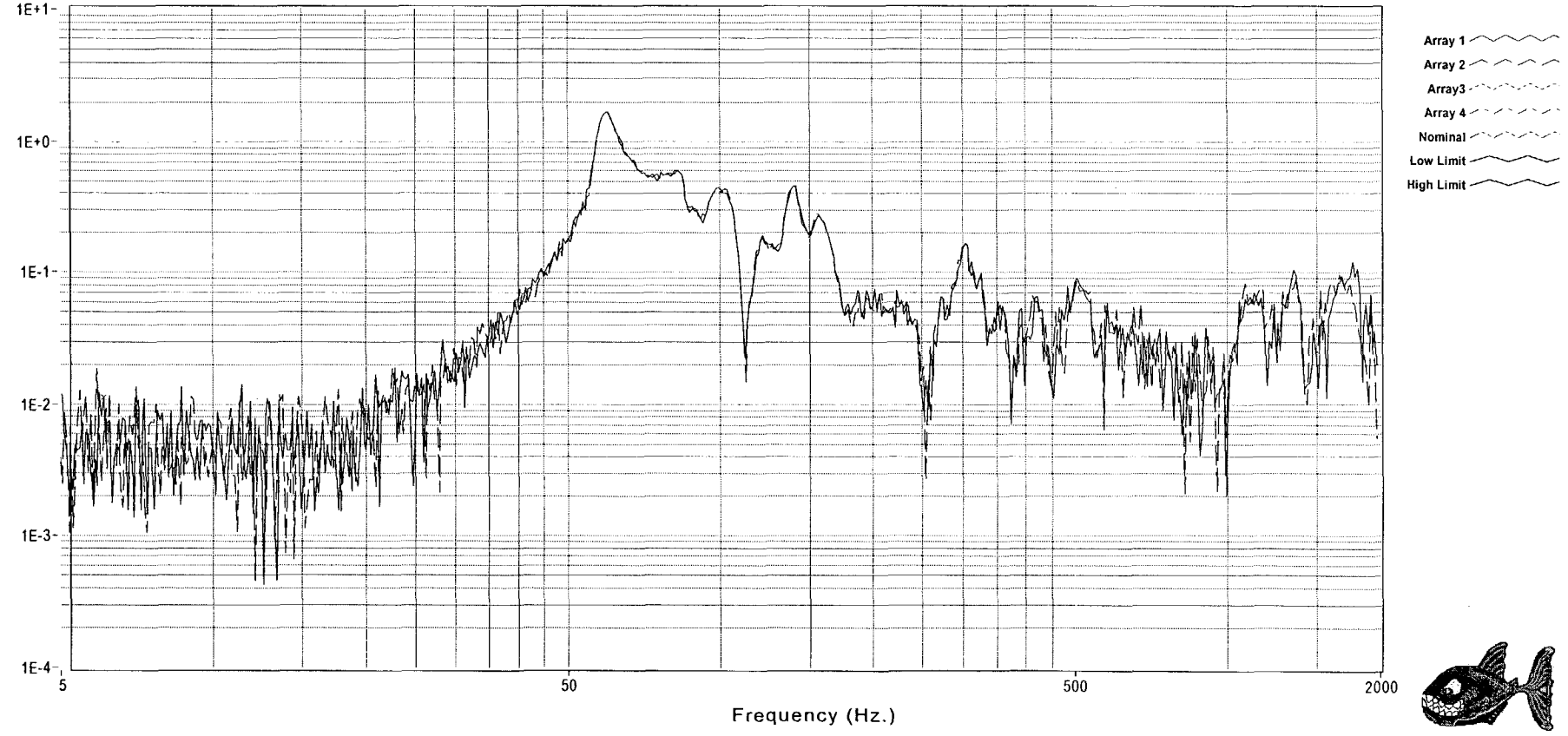
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A3Y: +X PANEL UPPER CCChannel #46	A3Y: +X PANEL UPPER CCChannel #46
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 14 SN=AG02	BOX 3 CH 14 SN=AG02
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.669E+0 at 60.0 Hz.	Maximum = 1.699E+0 at 60.0 Hz.
Overall or RMS	N/A	N/A



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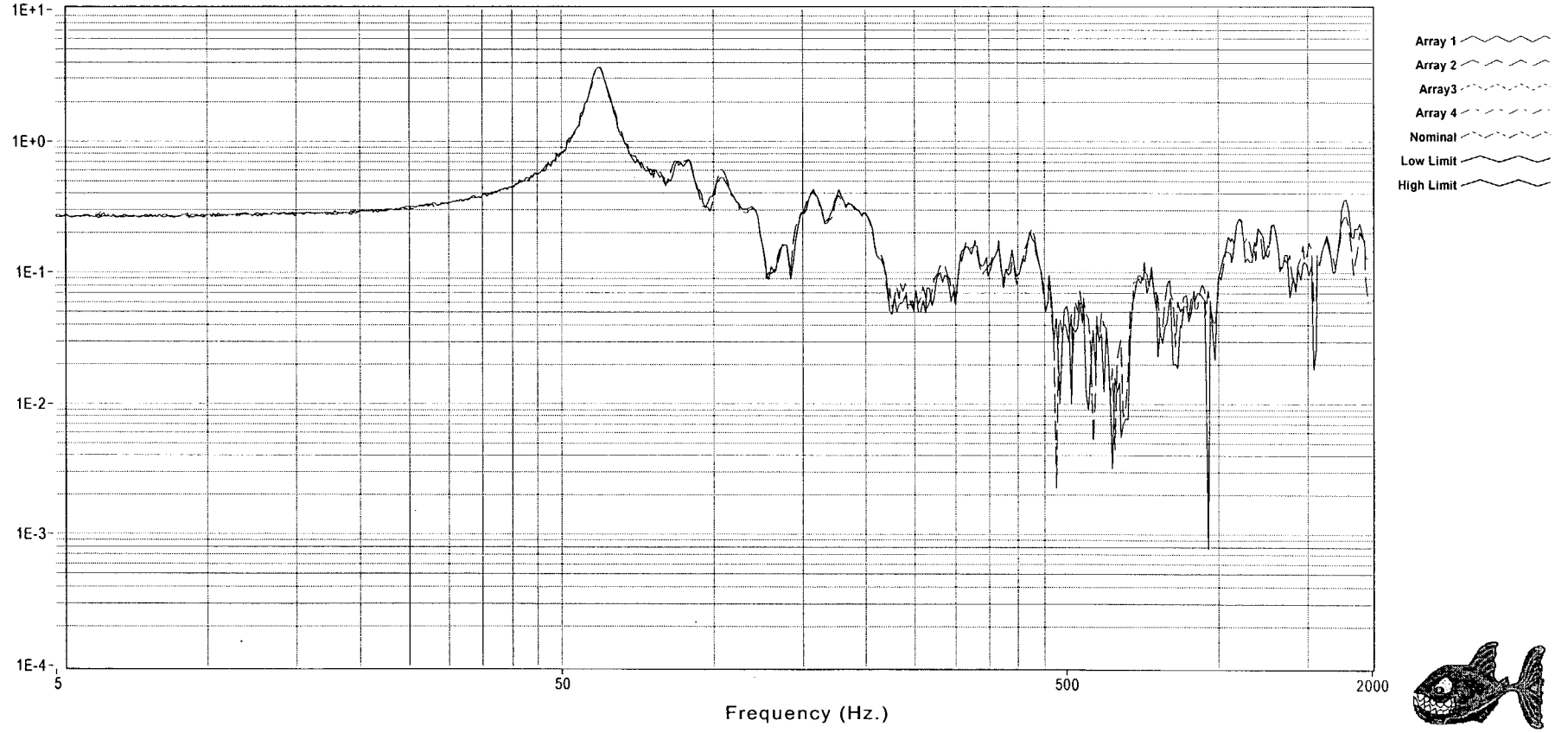
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A3RX: +X PANEL UPPER CGU Channel #48	A3RX: +X PANEL UPPER CGU Channel #48
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 16 SN=AE43	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 3.673E+0 at 59.4 Hz.	Maximum = 3.616E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



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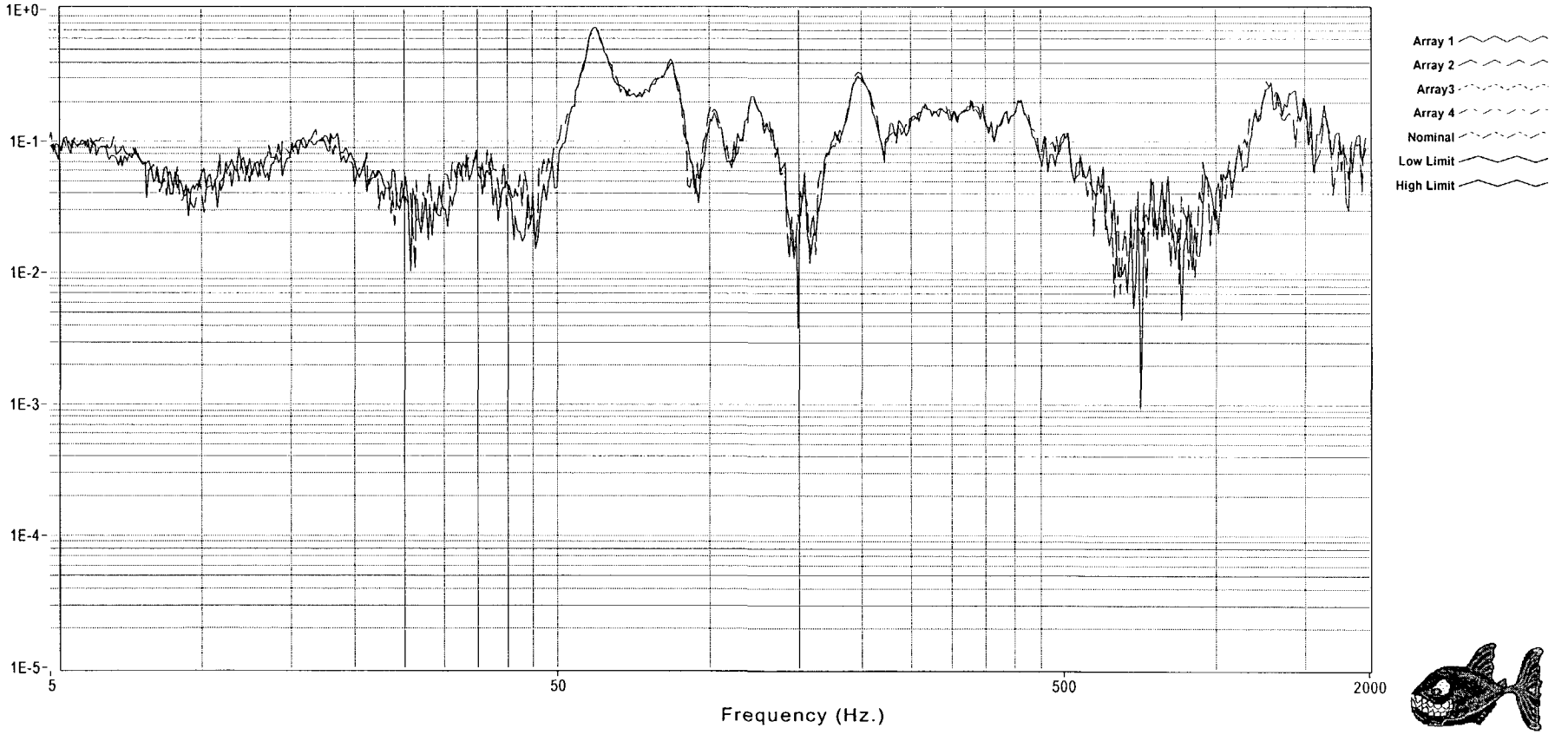
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A3Z: +X PANEL UPPER CCChannel #47	A3Z: +X PANEL UPPER CCChannel #47
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 15 SN=BC12	BOX 3 CH 15 SN=BC12
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 7.371E-1 at 60.0 Hz.	Maximum = 7.017E-1 at 60.0 Hz.
Overall or RMS	N/A	N/A



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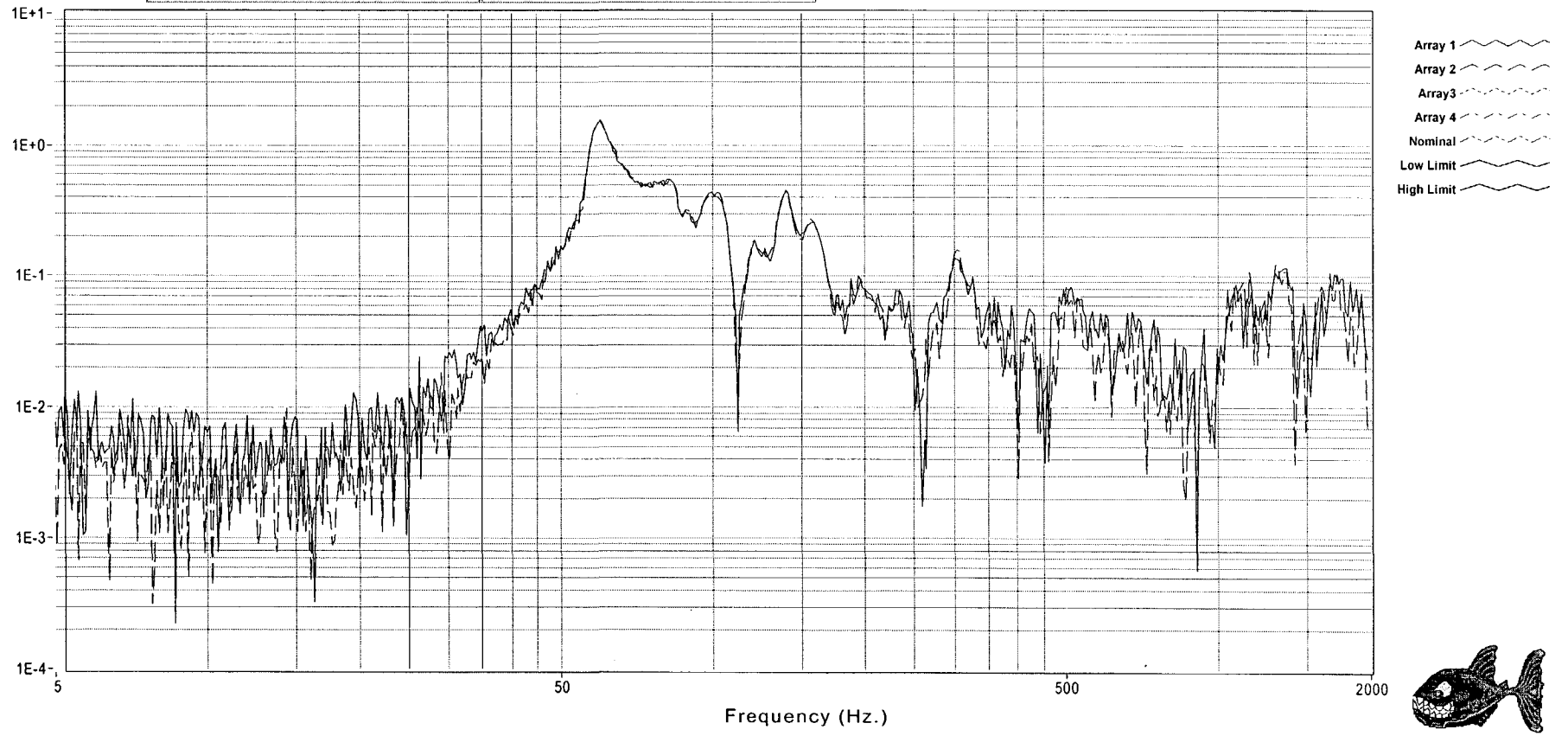
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A3RY: +X PANEL UPPER CGU Channel #49	A3RY: +X PANEL UPPER CGU Channel #49
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 1 SN=AF57	BOX 4 CH 1 SN=AF57
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.495E+0 at 60.0 Hz.	Maximum = 1.531E+0 at 60.0 Hz.
Overall or RMS	N/A	N/A



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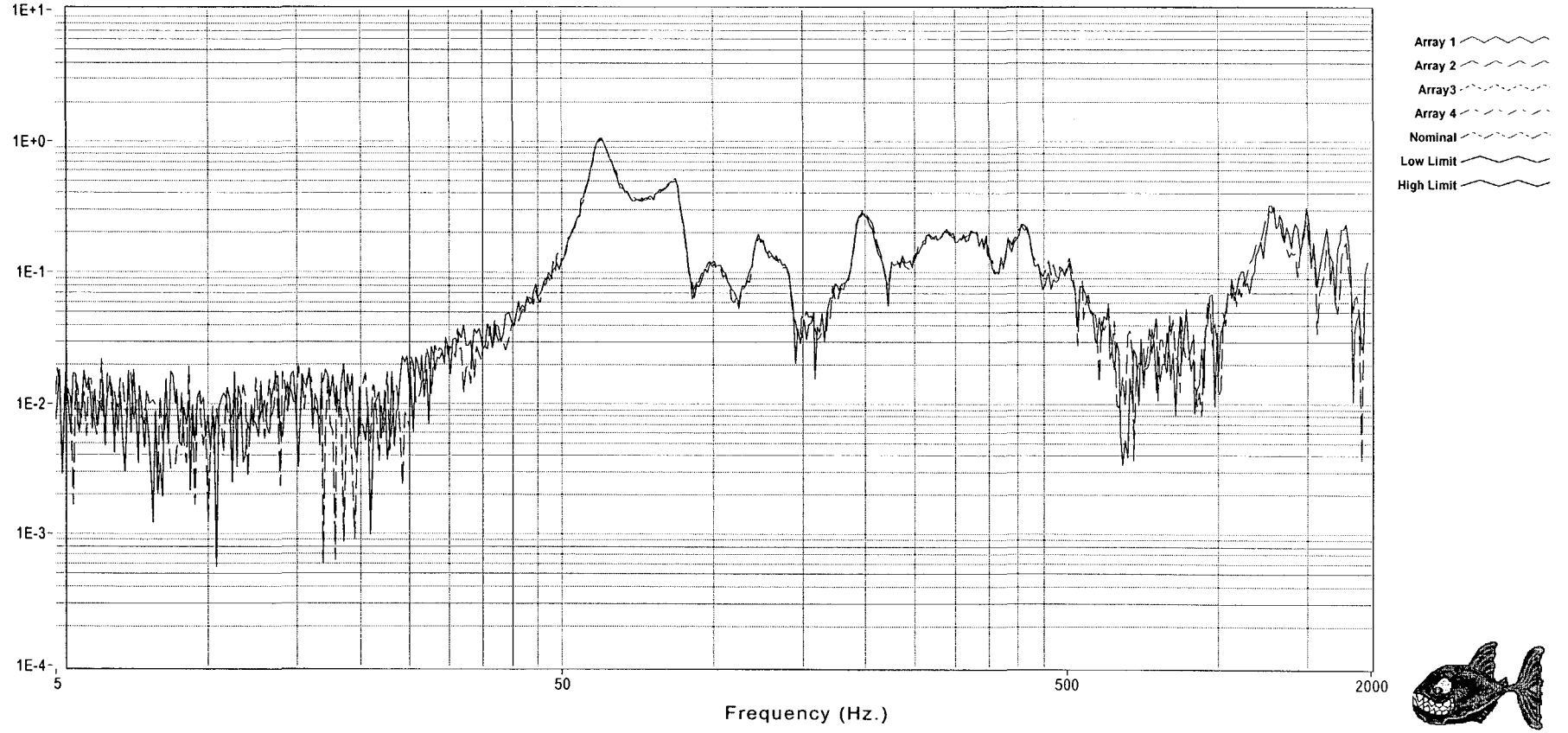
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A3RZ: +X PANEL UPPER CG Channel #50	A3RZ: +X PANEL UPPER CG Channel #50
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 2 SN=AB65	BOX 4 CH 2 SN=AB65
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.047E+0 at 60.0 Hz.	Maximum = 1.027E+0 at 60.0 Hz.
Overall or RMS	N/A	N/A



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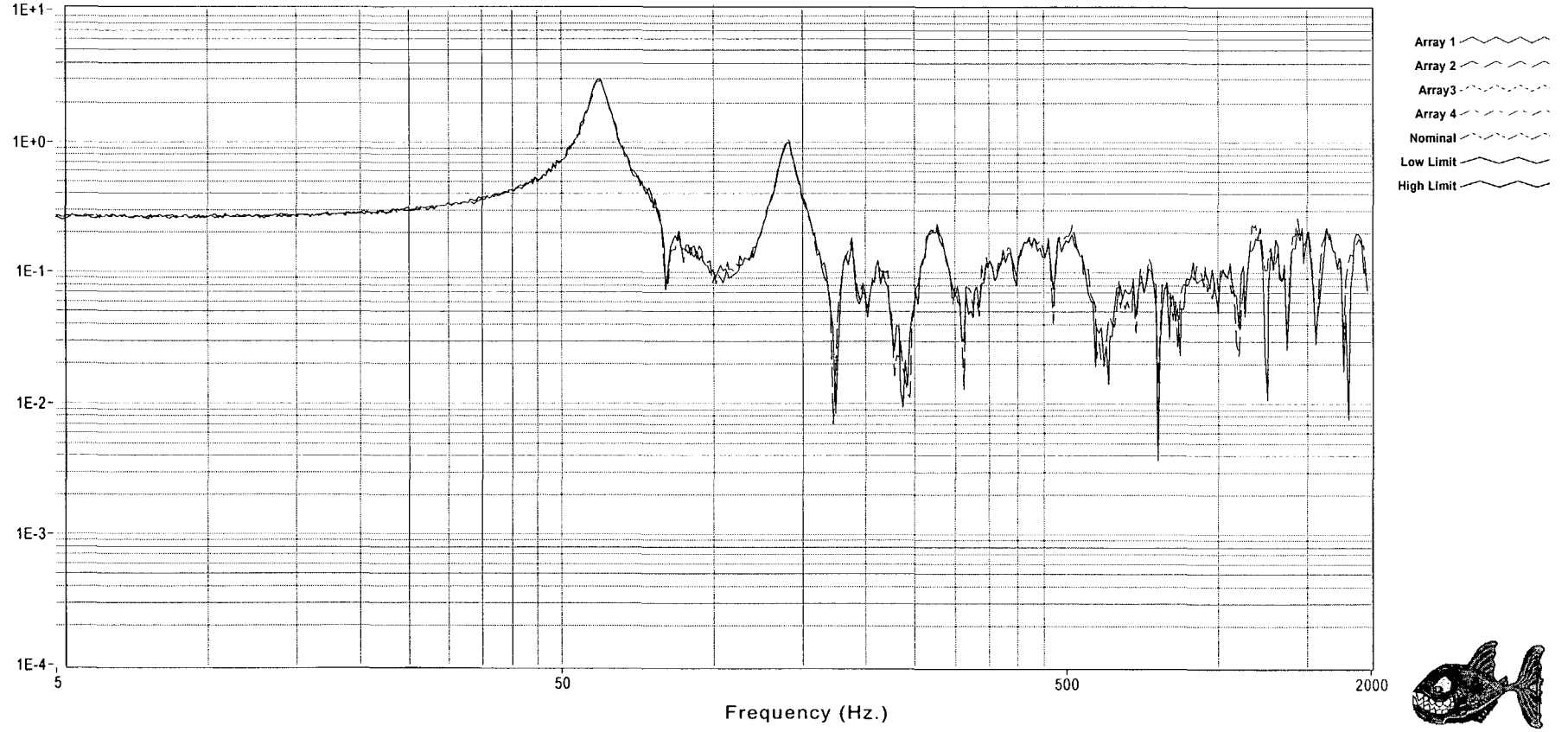
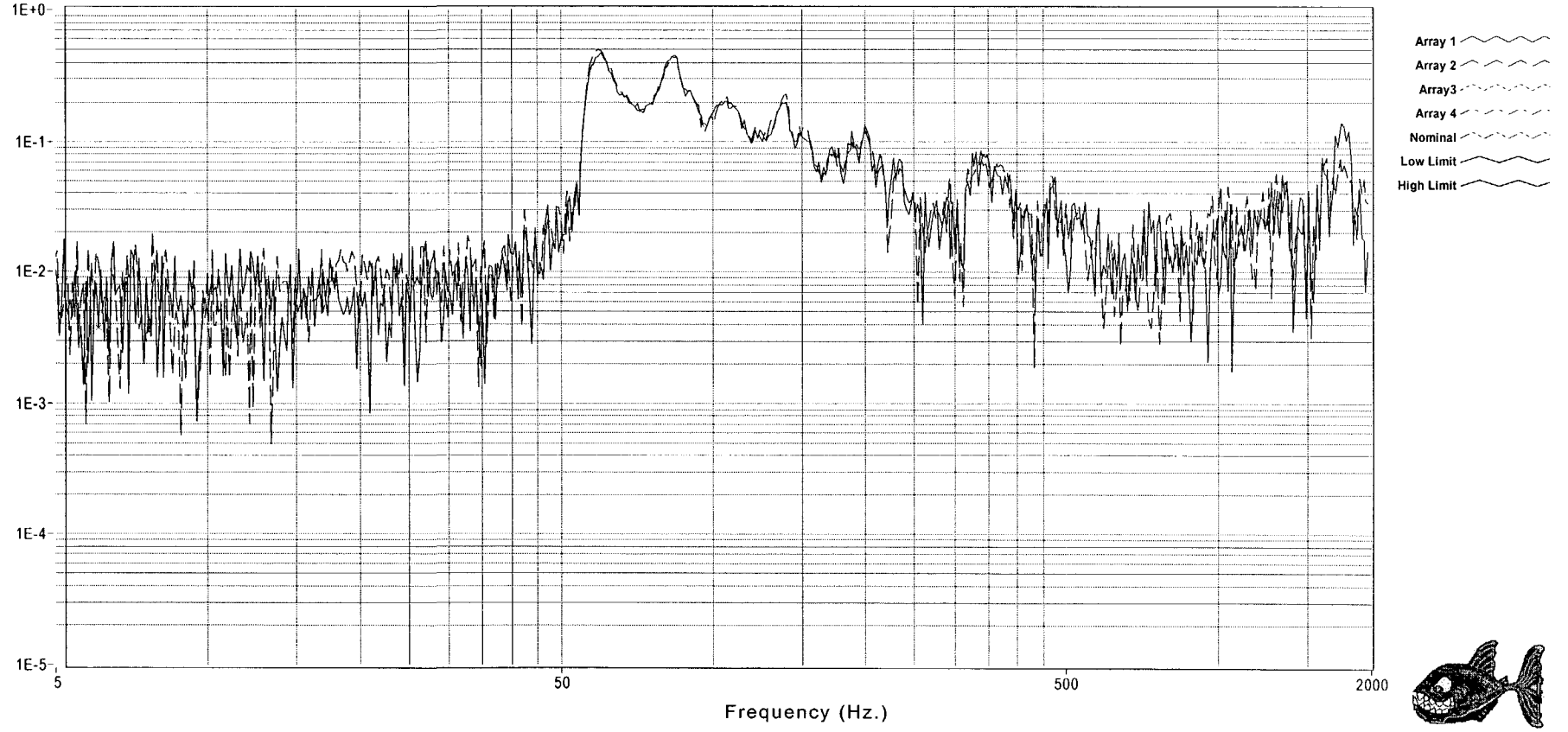
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A4X: +Y PANEL MID-CMUChannel #51	A4X: +Y PANEL MID-CMUChannel #51
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 3 SN=AH55	BOX 4 CH 3 SN=AH55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.991E+0 at 59.4 Hz.	Maximum = 2.895E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



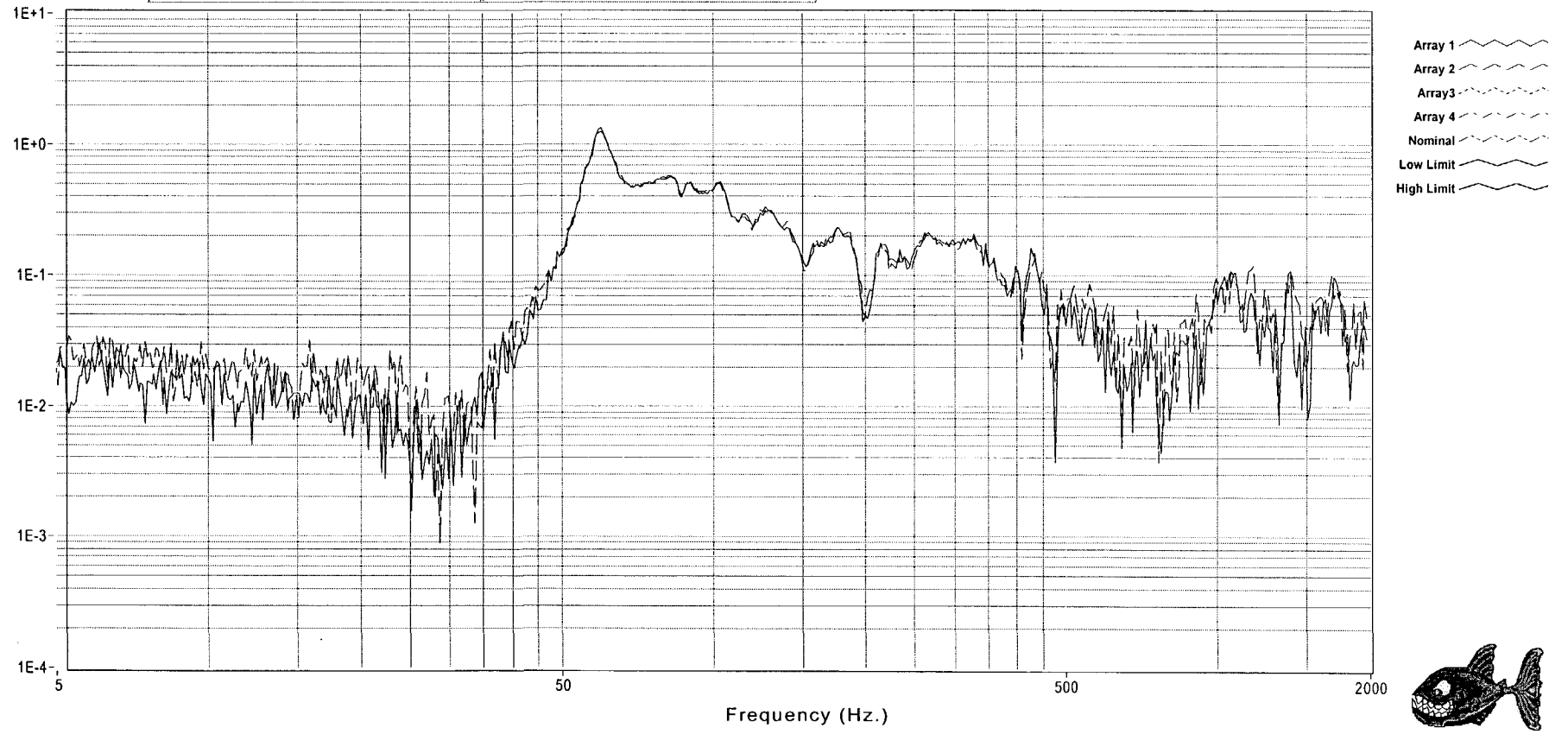
Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A4Y: +Y PANEL MID-CMUChannel #52	A4Y: +Y PANEL MID-CMUChannel #52
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 4 SN=AJ95	BOX 4 CH 4 SN=AJ95
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.650E-1 at 60.0 Hz.	Maximum = 4.968E-1 at 59.4 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A4Z: +Y PANEL MID-CMUChannel #53	A4Z: +Y PANEL MID-CMUChannel #53
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 5 SN=AB55	BOX 4 CH 5 SN=AB55
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.323E+0 at 60.0 Hz.	Maximum = 1.261E+0 at 60.0 Hz.
Overall or RMS	N/A	N/A



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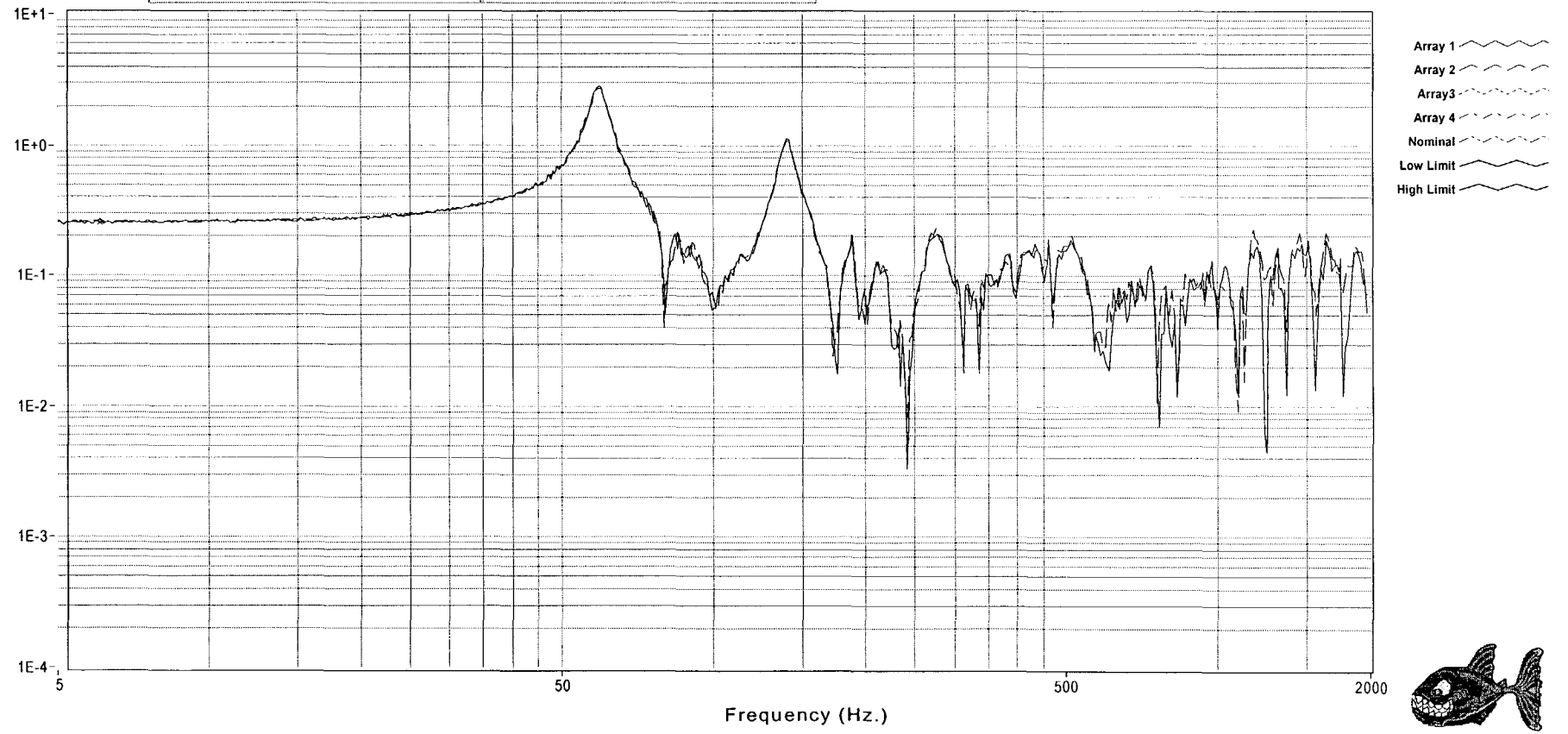
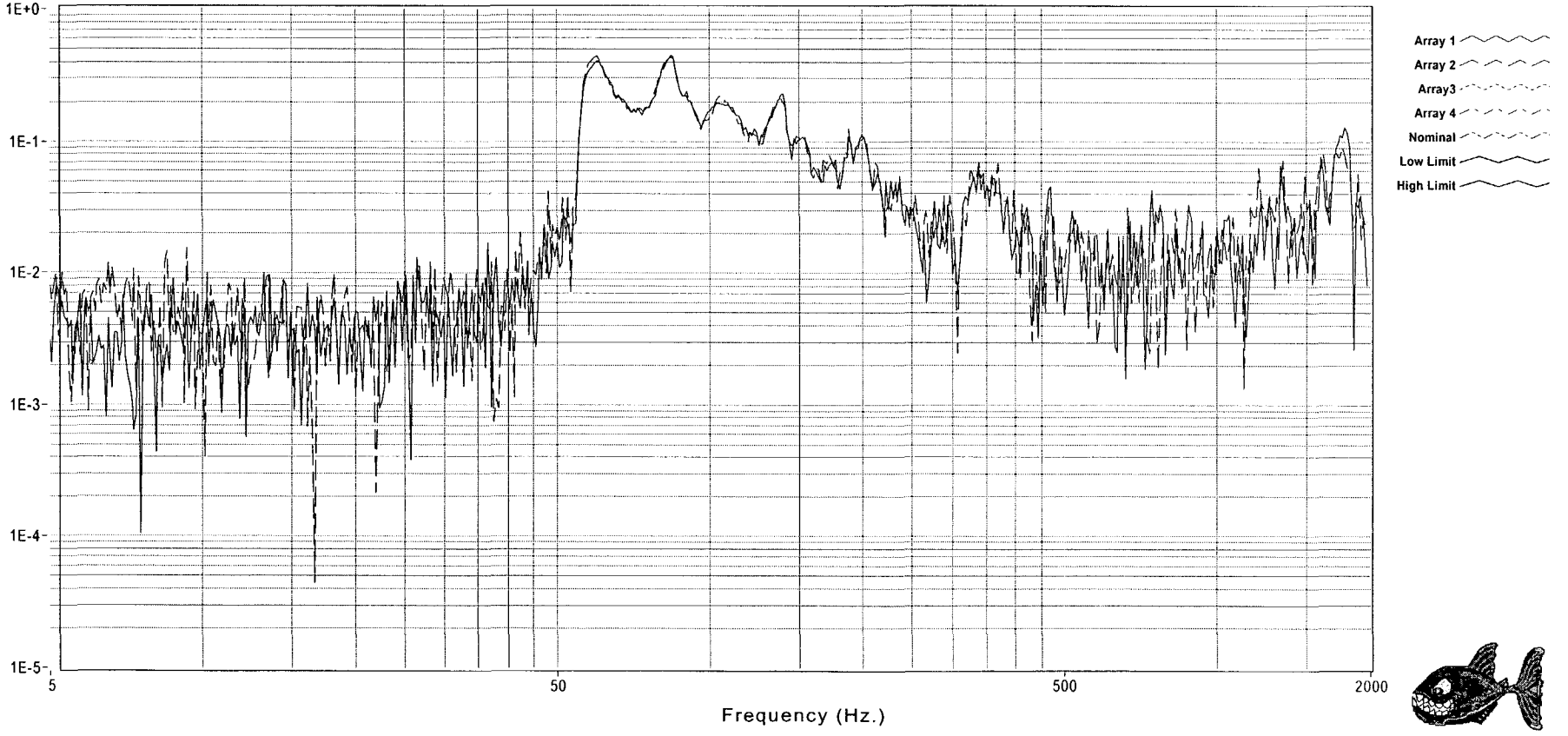
	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A4RX: +Y PANEL MID-CMCchannel #54	A4RX: +Y PANEL MID-CMCchannel #54
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 6 SN=AF10	BOX 4 CH 6 SN=AF10
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 2.812E+0 at 59.4 Hz.	Maximum = 2.727E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	A4RY: +Y PANEL MID-CMCChannel #55	A4RY: +Y PANEL MID-CMCChannel #55
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 7 SN=AF56	BOX 4 CH 7 SN=AF56
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.287E-1 at 84.1 Hz.	Maximum = 4.488E-1 at 84.1 Hz.
Overall or RMS	N/A	N/A



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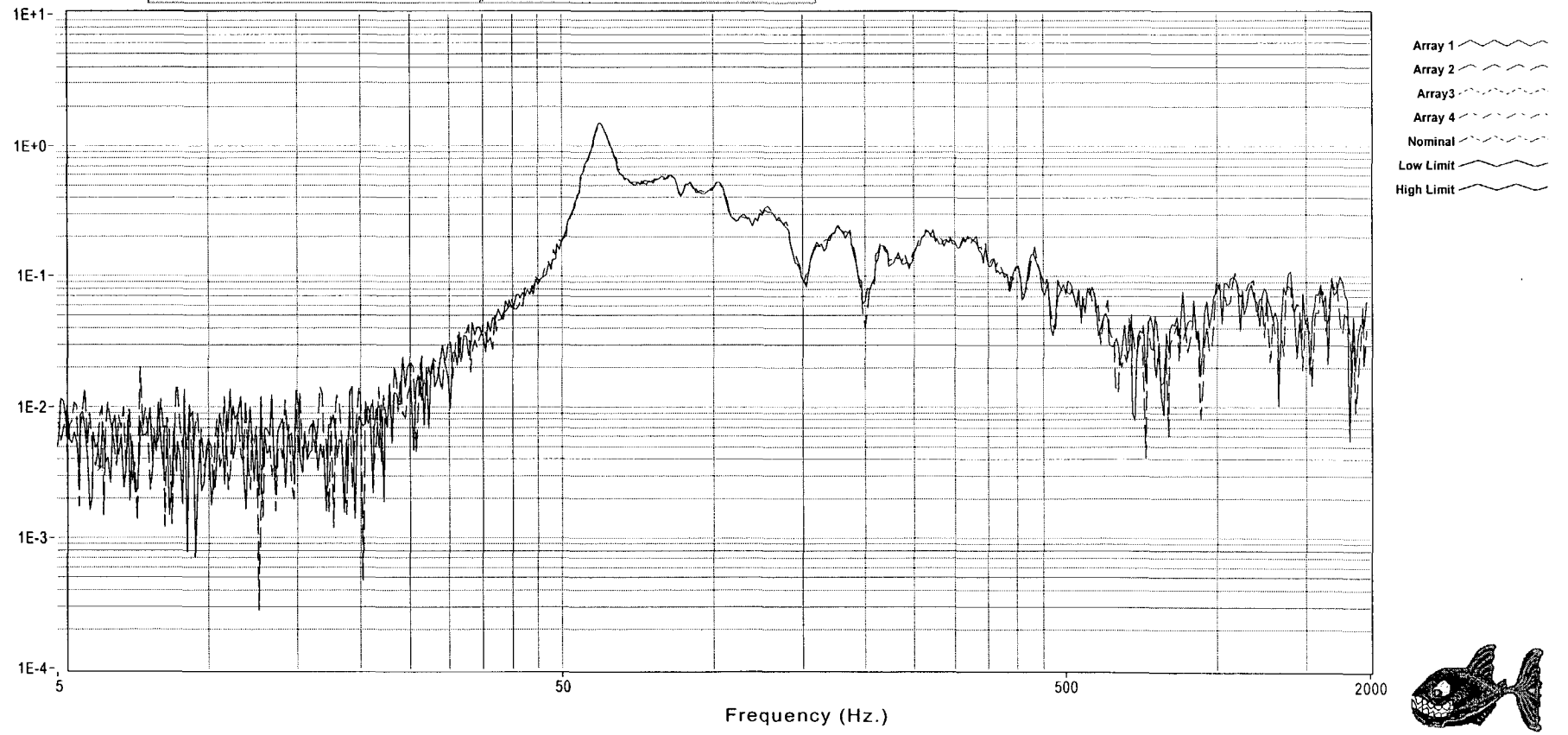
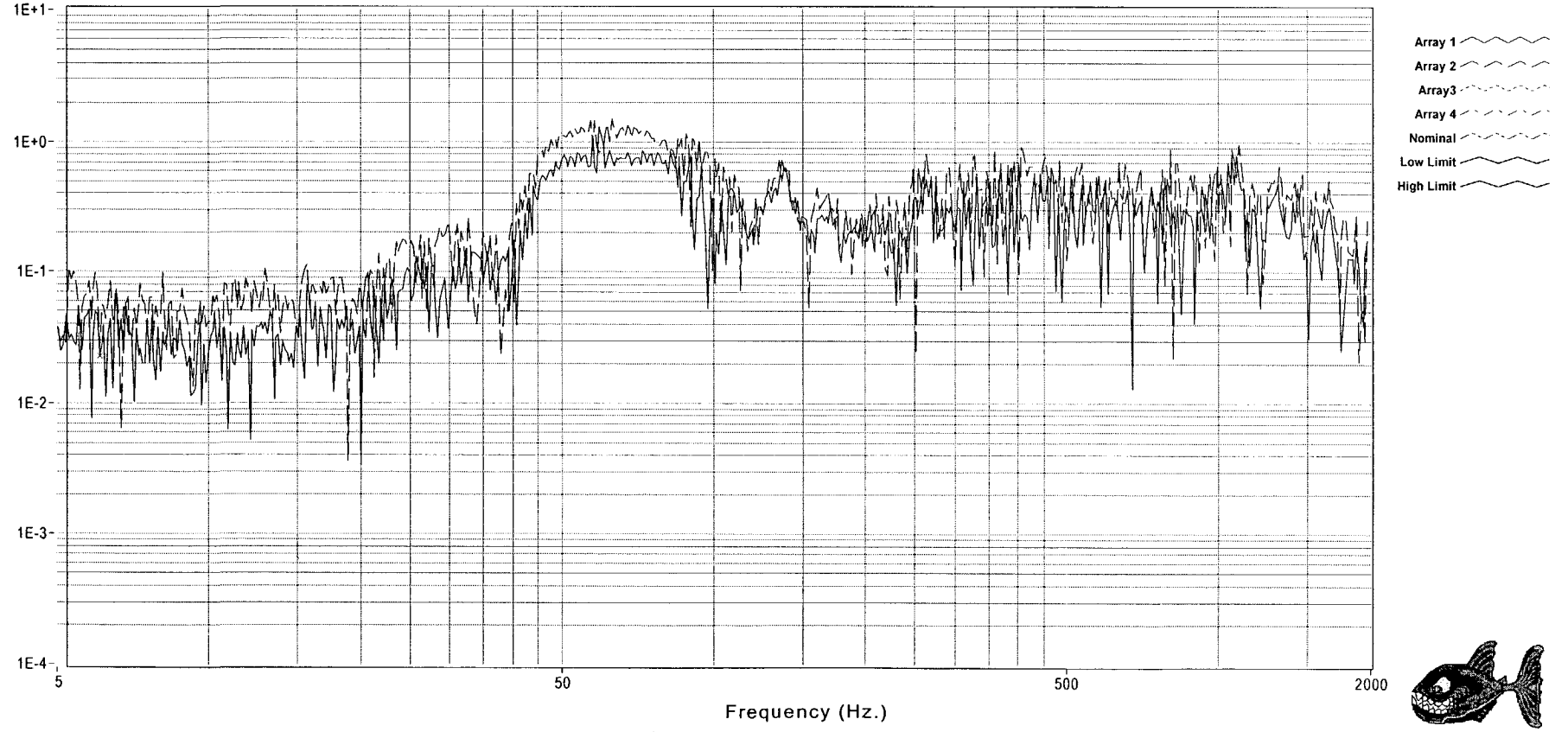
	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A4RZ: +Y PANEL MID-CMCChannel #56	A4RZ: +Y PANEL MID-CMCChannel #56
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 8 SN=AD53	BOX 4 CH 8 SN=AD53
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.490E+0 at 60.0 Hz.	Maximum = 1.430E+0 at 60.0 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062407
	F1: FLY AWAY Channel #57	F1: FLY AWAY Channel #57
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 4 CH 9 SN=BF27	BOX 4 CH 9 SN=BF27
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.314E+0 at 59.4 Hz.	Maximum = 1.480E+0 at 63.0 Hz.
Overall or RMS	N/A	N/A



Mid X-Axis Signature overlay for chanel 45 (A3X) and chanel 48 (Redundant A3X)

Additional Plots for the Chanel 45 Signature Change Investigation

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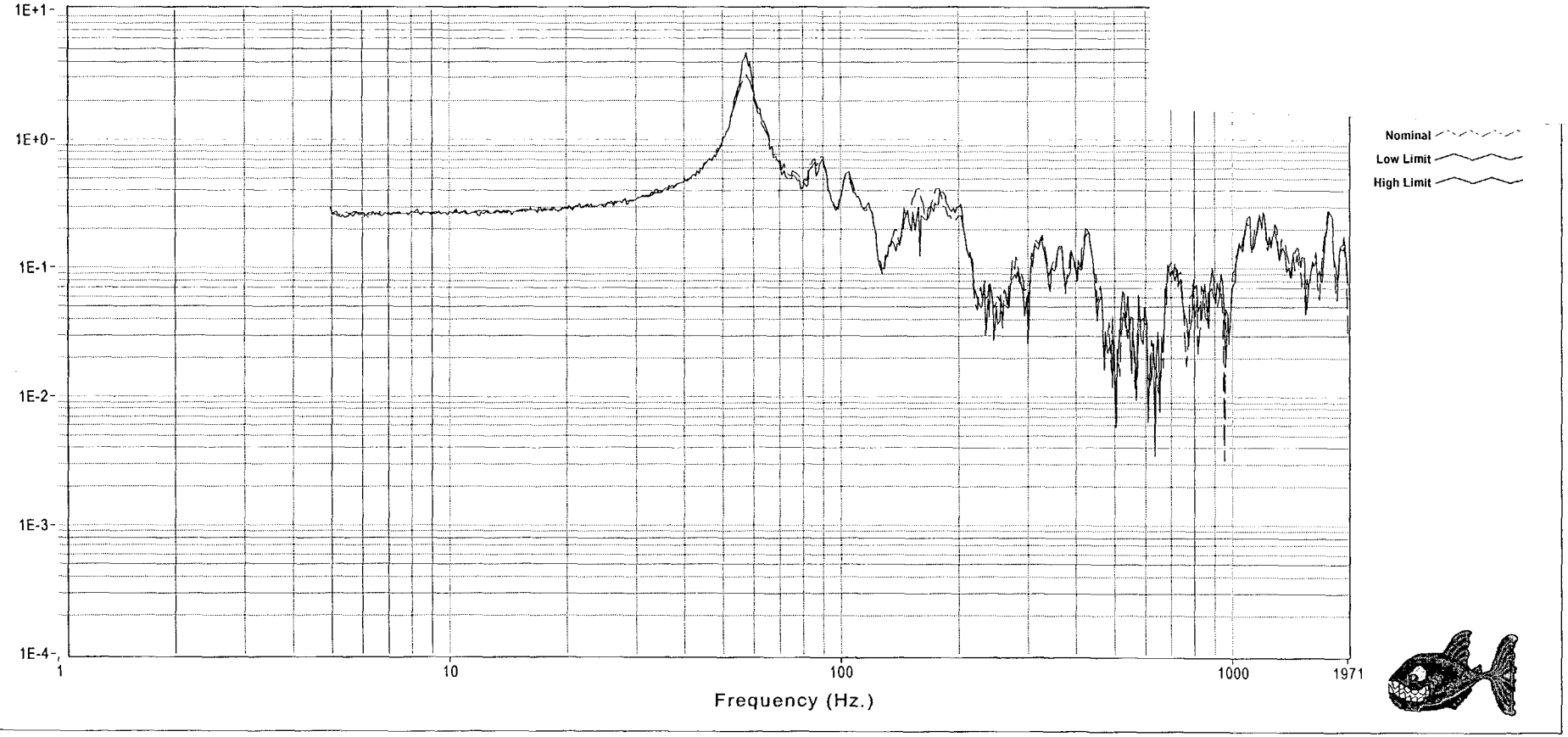
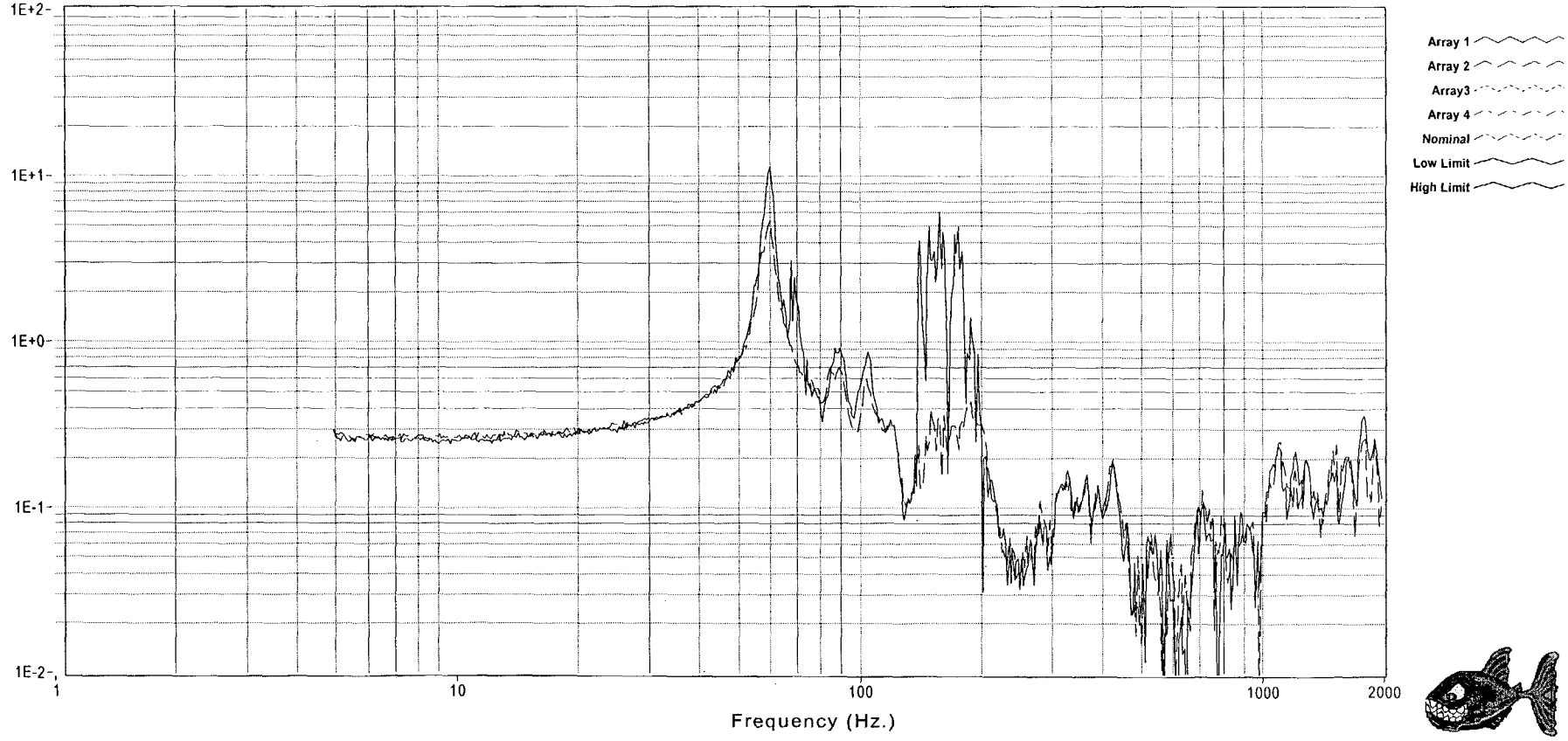
	Array 1	Array 2
	sine_Sine062405	sine_Sine062405
	A3X: +X PANEL UPPER CCh Channel #45	A3RX: +X PANEL UPPER CCh Channel #48
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062405	062405
Test Date/Time	24-Jun-2002 4:44:24	24-Jun-2002 4:44:24
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 4.655E+0 at 57.6 Hz.	Maximum = 3.161E+0 at 57.6 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

Reprint the Pre/Post X-Axis Signatures overlay with different Frequency scale

	Array 1	Array 2
	sine_Sine062401	sine_Sine062407
	A3X: +X PANEL UPPER CCChannel #45	A3X: +X PANEL UPPER CCChannel #45
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062401	062407
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 13 SN=BC39
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.140E+1 at 60.0 Hz.	Maximum = 5.389E+0 at 60.0 Hz.
Overall or RMS	N/A	N/A



Post X-Axis Signature for chanel 45, with Freq Markings

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS POST .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062407

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

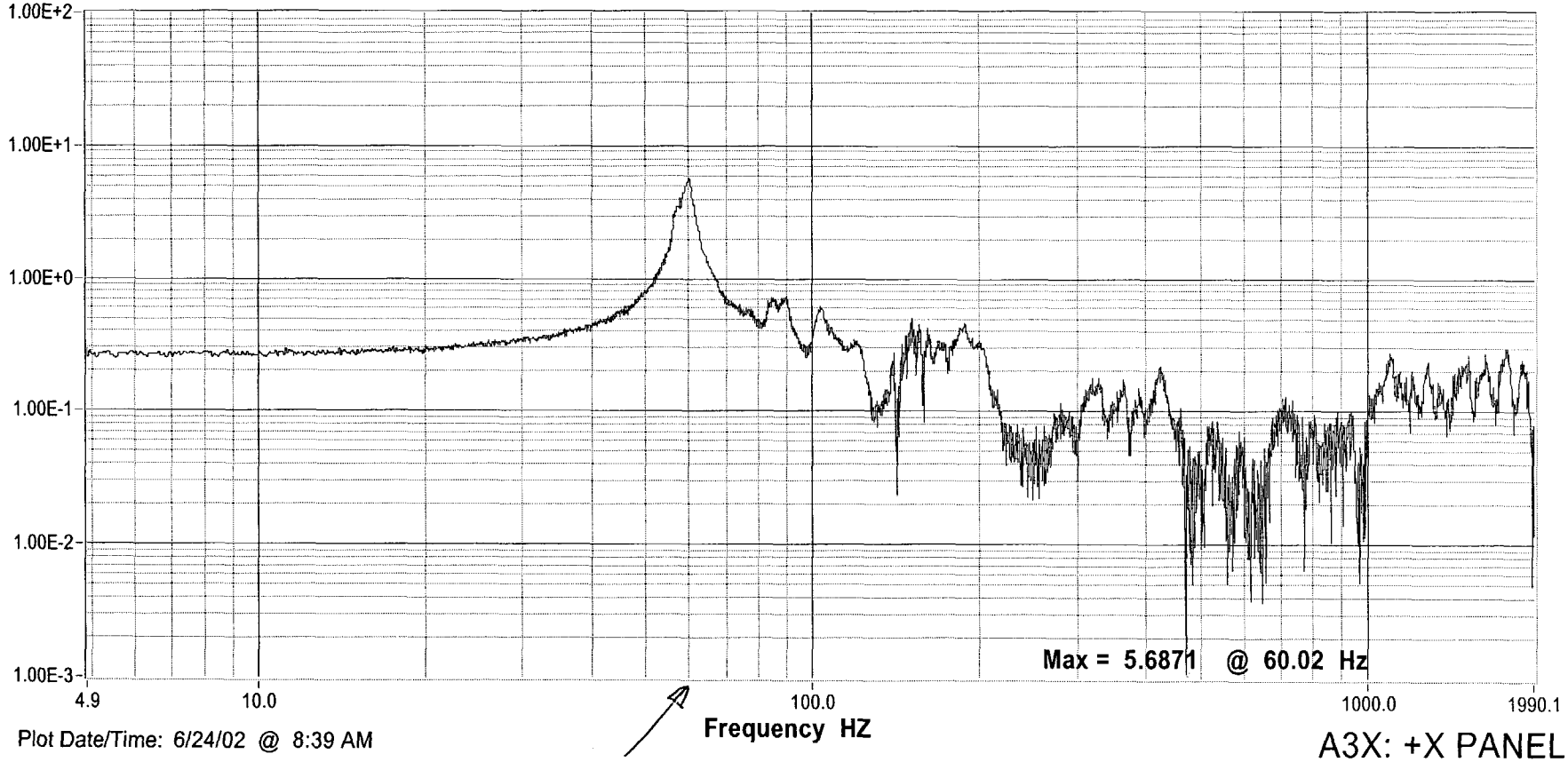
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 6:55:33

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS POST .25 SINE SWEEP



Plot Date/Time: 6/24/02 @ 8:39 AM

58.6 HZ
4.286 g

A3X: +X PANEL

Pre. X-Axis Signature with Freq Markings

Lockheed Martin Missiles and Space

Sine Spectrum

Test Type: Sine

Test: HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP

Specimen HIRDLS VIBRATION TEST

Test File Number: 062401

Part Number/ID: Y4011

Channel #: 45 **Node Number:** 0045

Channel Description: BOX 3 CH 13 SN=BC39

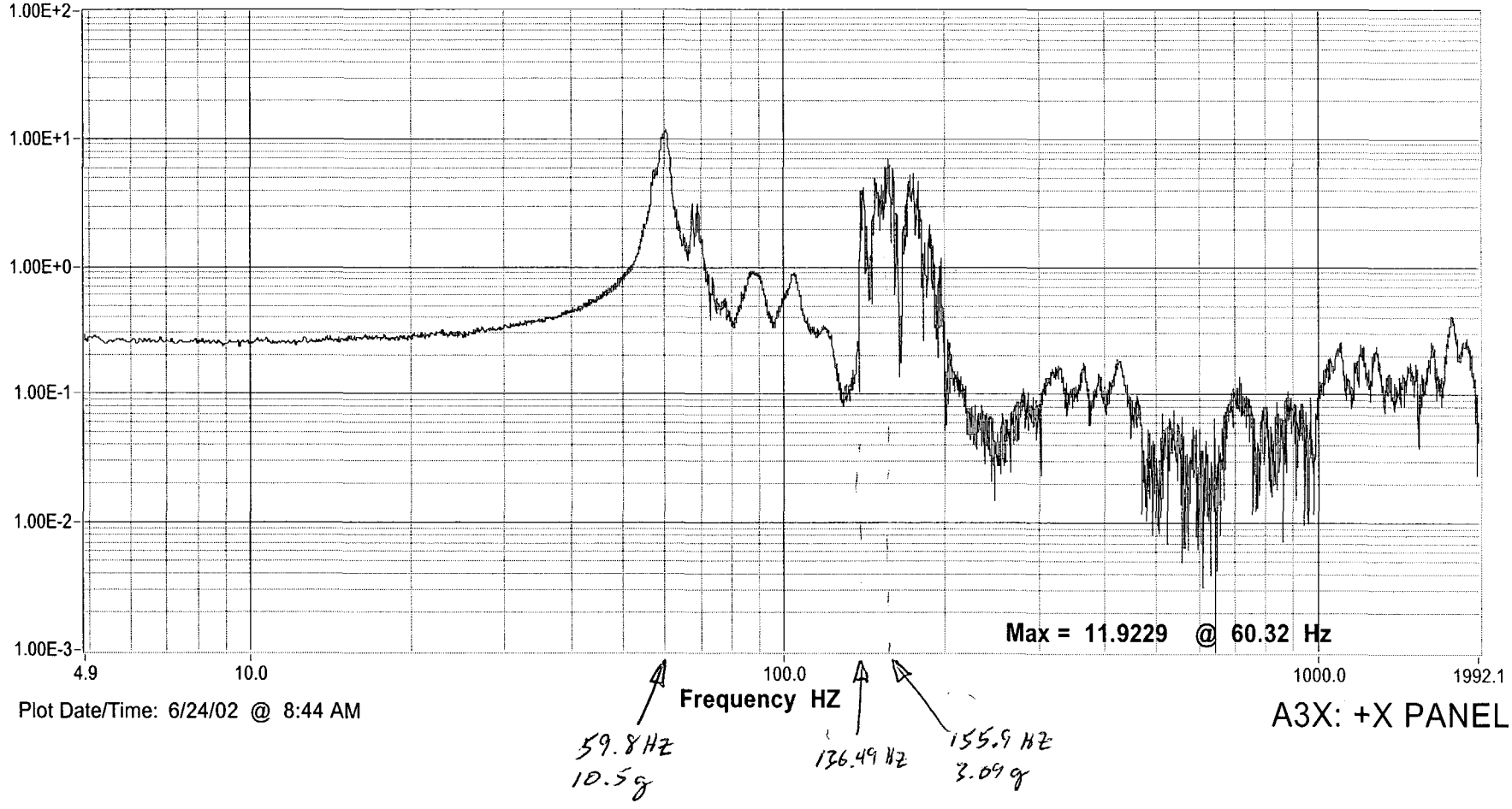
Test File Name: D:\Test\Test 2002\Y4011 HIRDLS\SINE.set

Log Analysis Sweep dF= 0.00 x Frequency, Proportional Bandwidth dF= 50.00% of Freq

Test Date/Time: 24-Jun-2002 0:50:18

A3X: +X PANEL UPPER CCU

Test Description:
HIRDLS VIBRATION TEST: X-AXIS .25 SINE SWEEP



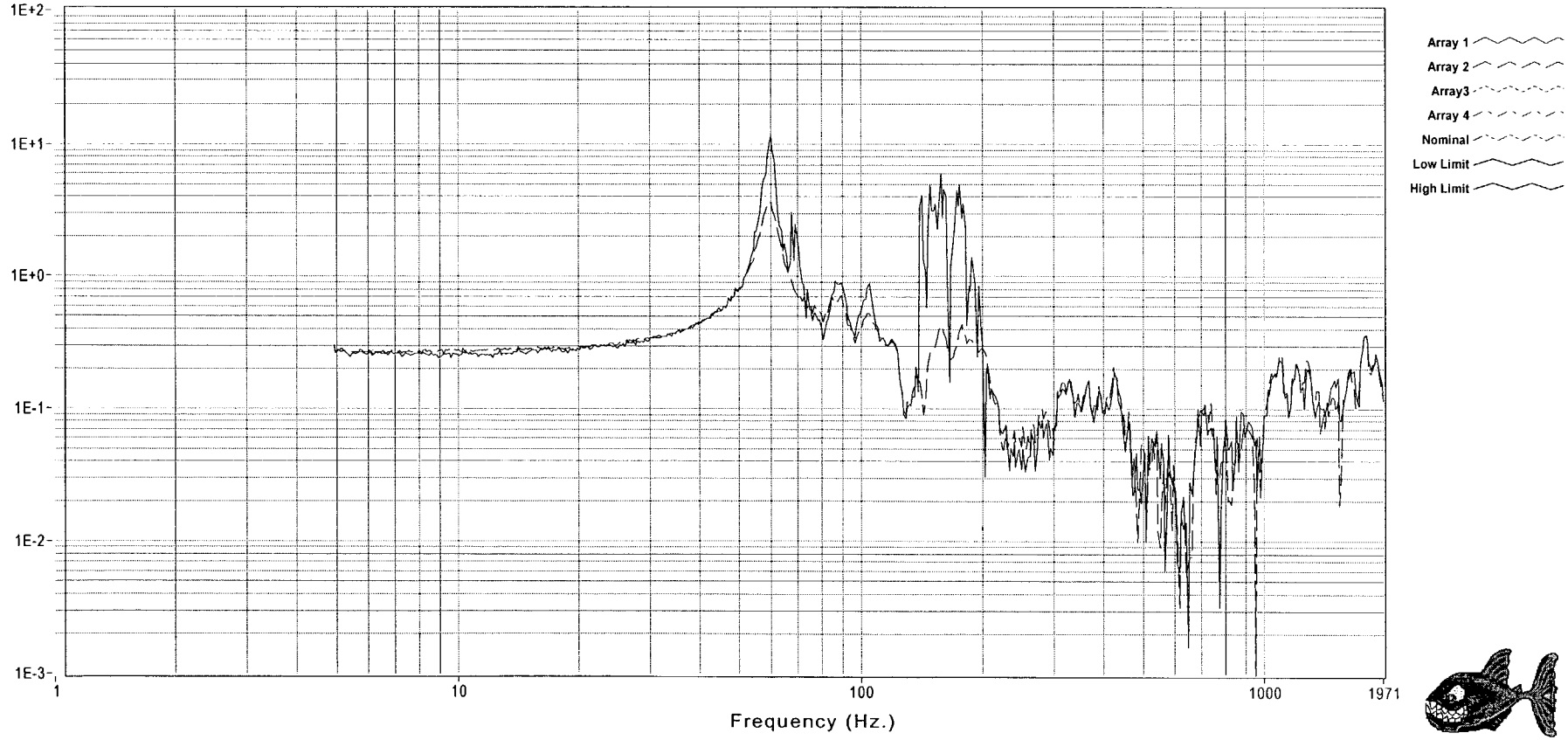
Plot Date/Time: 6/24/02 @ 8:44 AM

A3X: +X PANEL

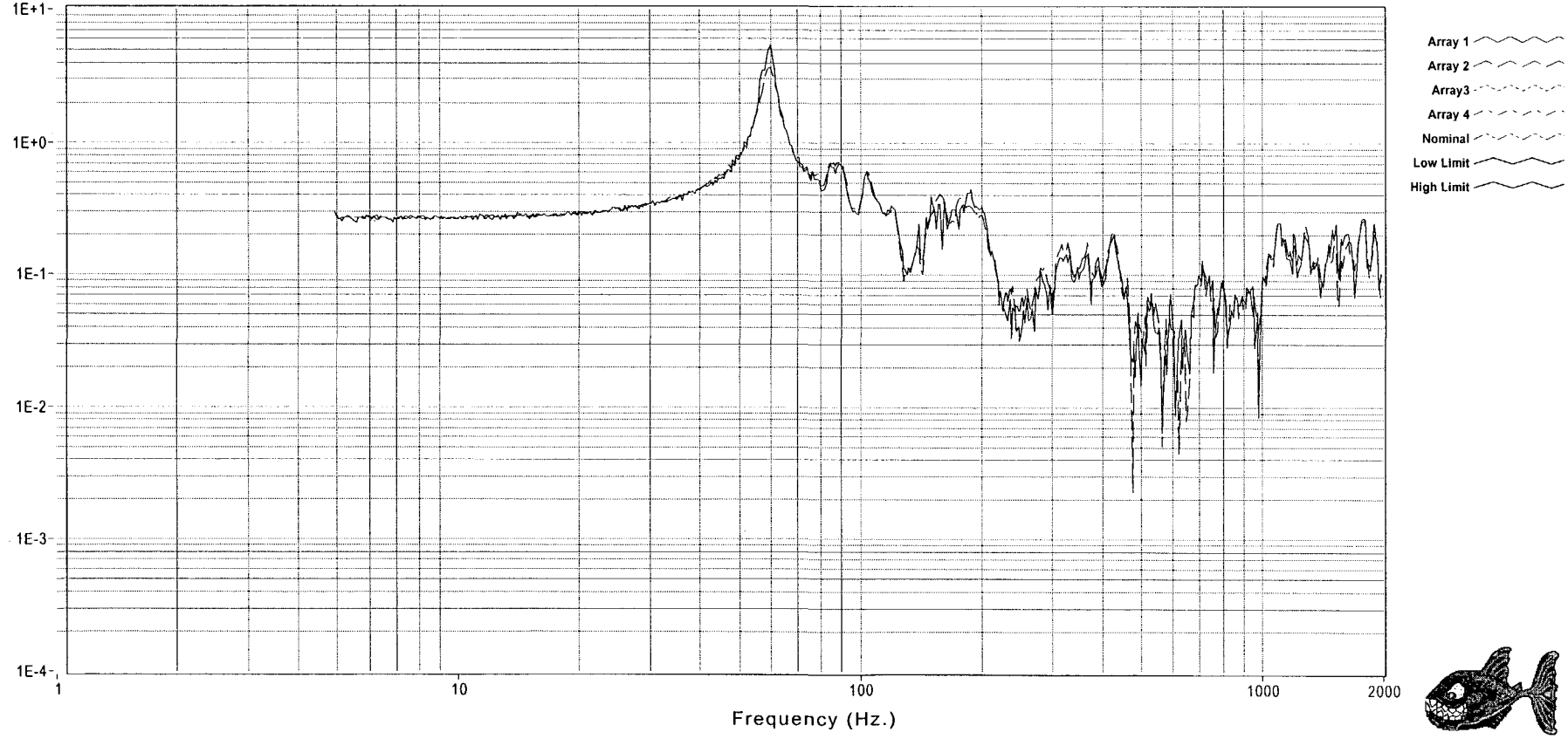
Overlay of Pre
X- Axis Signatures
of chanel 45 (A3X)
and chanel 48 (Redudant of A3X)

Lockheed Martin Missiles and Space

	Array 1 sine_Sine062401	Array 2 sine_Sine062401
	A3X: +X PANEL UPPER CCChannel #45	A3RX: +X PANEL UPPER CCChannel #48
Test Title	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test ID	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test Description	HIRDLS VIBRATION TEST: X-AXIS .25	HIRDLS VIBRATION TEST: X-AXIS .25
Test File Number	062401	062401
Test Date/Time	24-Jun-2002 0:50:18	24-Jun-2002 0:50:18
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 1.140E+1 at 60.0 Hz.	Maximum = 3.673E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A



Lockheed Martin Missiles and Space

Post X- Axis Overlay
for chanel 45 (A3X)
and chanel 48 (A3X, Redundant)

	Array 1	Array 2
	sine_Sine062407	sine_Sine062407
	A3X: +X PANEL UPPER CCAChannel #45	A3RX: +X PANEL UPPER CCAChannel #48
Test Title	HIRDLS VIBRATION TEST: X-AXIS POST	HIRDLS VIBRATION TEST: X-AXIS POST
Test ID	HIRDLS VIBRATION TEST: X-AXIS POST	HIRDLS VIBRATION TEST: X-AXIS POST
Test Description	HIRDLS VIBRATION TEST: X-AXIS POST	HIRDLS VIBRATION TEST: X-AXIS POST
Test File Number	062407	062407
Test Date/Time	24-Jun-2002 6:55:33	24-Jun-2002 6:55:33
Channel Description	BOX 3 CH 13 SN=BC39	BOX 3 CH 16 SN=AE43
Analysis Description	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth	Log Analysis Sweep dF= 0.01 x Frequency; Proportional Bandwidth
Max at Frequency	Maximum = 5.389E+0 at 60.0 Hz.	Maximum = 3.616E+0 at 59.4 Hz.
Overall or RMS	N/A	N/A