FORM 650 (11-66)

DOUGLAS

224

MISSILE & SPACE SYSTEMS DIVISION
DOUGLAS AIRCRAFT CO., INC.

ENGINEERING LABORATORIES & SERVICES
TECHNICAL MEMORANDUM

FROM: R. R. Nichols, A3-860
J. L. Whittaker, A-290

SUBJECT: VOLTAGE EXCITATION ASSEMBLIES P/N 1B67324-1, QUALIFICATION TEST RESULTS

COPIES TO:
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CATALOG NO. FDL 86422
REPORT NO. TM-DSV-48-RE-R-6155 REV. A
DATE 2-6-68 3-7-8
REQUESTED BY F. D. Newman, A3-863
E.W.O. 29284 TCD 1T10611
TEST PLAN & ITEM NO. 1T30855, P-428
SALES ORDER 5769-6304
CLASSIFICATION OR RESTRICTION: Unclassified

PREPARED BY: John J. Hagaki APPROVED BY: L. Whittaker

APPROVAL SIGNATURES CERTIFY THAT ALL REQUIREMENTS OF REPORT HAVE BEEN MET INCLUDING THE REPORTING OF NEW TECHNOLOGY/REPORTABLE ITEMS PER SPB'S 92 AND 93. DISCLOSURES ARE MADE ON FORMS 25-207 AND 25-207-1.
NEW TECHNOLOGY: ☐ IS CONTAINED IN THIS REPORT, ☒ IS NOT CONTAINED IN THIS REPORT.

ABSTRACT:

This report outlines the detailed procedures and results of qualification tests performed on two Voltage Excitation Assemblies P/N 1B67324-1 Serial Nos. 01 and 03, manufactured by the McDonnell Douglas Corporation, Santa Monica, California. The two specimens were subjected to pre-environmental, sinusoidal vibration, random vibration, temperature, and post-environmental test according to detailed test procedure drawing 1T30855. The environmental tests were conducted in the Guidance and Controls Laboratory and the Electrical Sub-System Laboratory of the Missile and Space Systems Division. All test results were within specified limits.

DESCRIPTORS

DSV-48

Environmental Tests

Sinusoidal Vibration

Random Vibration

Temperature

SEP 1970
RECEIVED
NASA STI FACILITY
INPUT BRANCH

FACILITY FORM 602

N70-76172
(ACCESSION NUMBER)

(THRU)

304
(PAGES)

None
(CODE)

CR-113230
(NASA CR OR TMX OR AD NUMBER)

(CATEGORY)

FORM 850-2 (11-66)

DOUGLAS AIRCRAFT CO., INC. MISSILE & SPACE SYSTEMS DIVISION SANTA MONICA, CALIFORNIA	QUALIFICATION STATEMENT	[X] DE/Q TEST [ ] FORMAL QUAL

PROGRAM SATURN S-IVB

TEST PLAN AND ITEM NUMBER P-42B

TEST PLAN LINE ITEM TITLE VOLTAGE EXCITATION ASSEMBLY

PART NO. 1B67324-1

TECHNICAL MEMORANDUM NUMBER(S) TM-DSV-4B-EE-6155, REV. A

ENGINEERING RESOLUTIONS AND CONCLUSIONS

Two units, Part No. 1B67324-1, Serial Numbers 01 and 03, were tested under Line Item P-42B. Each of the units showed one marginal out-of-tolerance resistance measurement during pre-environmental test. The out-of-tolerance readings were minor and were not considered significant criteria for disqualification of the item.

The measured resistance of the 28 volt DC input circuit on Serial Number 01 was 5% low, and the measured resistance of the 5 volt DC output circuit on Serial Number 03 was 1/2% low. The current measurements of the same circuits were within tolerance, as were all other electrical measurements. The square wave output calibration procedure originally specified adjustment of amplitude to 5.00 ± .01 volts true rms with frequency remaining within 2000 ± 200 Hz. The frequency of S/N 03 exceeded the maximum frequency limit by 8 Hz. The calibration procedure was revised to specify adjustment of the frequency with the amplitude remaining within the specified tolerance. This revision made the calibration procedure compatible with that specified for the Production Acceptance Test. Calibrated by the revised procedure, the amplitude and frequency of both S/N 01 and S/N 03 remained within tolerance through all subsequent tests.

(USE CONTINUATION SHEET AS NECESSARY)

STATEMENT OF QUALIFICATION

Based on the results of Design Qualification tests presented in the attached report, it is the conclusion of the Douglas Aircraft Company that voltage excitation assembly, Part Number 1B67324-1, is qualified for its installation on Saturn S-IVB.

DESIGN TECHNOLOGY	RELIABILITY ENGINEERING	PROJECT OFFICE-TEST
RBB	3/15/67	

FORM 28-600 (3-67)

REVISION TO REPORT NO: TM-DSV-4B-EE-R-6155

CHG LTR	DATE REVISED	PAGES REVISED	BRIEF DESCRIPTION OF CHANGE AND REASON	REVISED BY	APPROVED BY
A	3-7-8	C-12 through C-21 C-31 through C-50 D-13 through D-41	Added words "UPSWEEP or "DOWNSWEEP" as applicable on these vibration data pages and added axis designations	J. Itagaki	[illegible] 3-7-68
		D-18	Changed vertical scale from 10 to 100; was 1 to 10 g's peak		
		D-24 D-26 D-28 D-39	Added vertical scale (that was omitted) of 10-100 g's peak		
		D-41	Added vertical scale (that was omitted) of .1 to 1 g^2/Hz		
		C-51 through C-64 and D-42 through D-55	Added axis designations		

1.0 INTRODUCTION

This report presents the detailed procedures and results of qualification tests performed on two Voltage Excitation Assemblies P/N 1B67324-1 (S/Ns 01 and 03) manufactured by the McDonnell Douglas Company, Santa Monica, California. The tests were conducted by the Guidance and Controls Laboratory and the Electrical Subsystems Laboratory during the period 26 December 1967 through 15 January 1968.

1.1 Purpose of Test

The purpose of the test was to demonstrate to the National Aeronautics and Space Administration, Marshall Space Flight Center, the ability of the specimens to meet the requirements outlined in test control drawing 1T10611. The testing effort was authorized by S.O. 5769-6304, EWO 29284, line item F-42B. Reference detailed test procedure drawing 1T30855.

1.2 Physical Description

The voltage excitation assembly consists of four encapsulated modules on a common base assembly. The total size is 2.59 x 2.75 x 5.87 inches. The weight of each assembly is approximately six pounds. See addendum pages A-1 and B-1. Three voltage assemblies are located in the forward and aft skirts of the Saturn IV-B vehicle.

1.3 Functional Description

The assembly has six outputs; 5 vdc, -20 vdc, and four 2000 Hz square-wave. The 5 vdc and -20 vdc supply power to various signal conditioning modules and assemblies. The 5 vdc is also used as excitation for all

1.3 Functional Description (Continued)

position potentiometers associated with acceleration, vibration, pressure, and other transducers. The 2000 Hz squarewave outputs drive magnetic amplifiers used for battery heater control, battery, current, voltage and temperature measurements. (The assembly is a redesign of the 5-volt Excitation Module P/N 1A77310.) Reference addendum page A-2 for a schematic diagram.

1.4 Applicable Documents

The following documents were applicable in conducting the environmental tests outlined in this report:

Douglas Documents

SM-41412	General Test Plan
1A37369	Environmental Test Specification Requirements, Saturn IVB Stage
1B67324	Voltage Excitation Assembly
1B67324-1001	Cables Drawing
SPB 710.2	Failure and Rejection Report
1B67666	Production Test Requirements Voltage Excitation Assembly
1T10612	Vibration Test Specimen Drawing
1T10611	Qualification Test, Voltage Excitation Assembly P/N 1B67324-1. (Test Control Drawing)

Government Documents

MIL-C-45662A	Calibration System Requirements
NPC-200-2	Quality Program Provisions for Space System Contractors

2.0 REQUIREMENTS

2.1 Test Sequence

The tests shall be performed in the sequence outlined below. The sequence may be changed by mutual agreement between the test conductor and the test director. Each of the environmental tests shall be preceded by a pre-environmental test and followed by a post-environmental test.

TEST	DESCRIPTION
1	Pre-test inspection
2	Circuit resistance test
3	Calibration
4	Pre-environmental tests
5	Vibration, sinusoidal and random
6	High temperature ($+135 \pm 5^{\circ}F$)
7	Post-environmental tests
8	Post-test inspection

2.2 Elapsed Time Between Tests

If the elapsed time between a post-environmental test of a specific environment and the next environmental test is less than 24 hours, the intervening pre-environmental test of the next environment need not be performed, if no significant change in ambient conditions has occurred. However, if there is a 24-hour or longer delay between the performance of a pre-test and its associated environmental test, the pre-test shall be repeated before the environmental test is performed.

2.3 Recording of Test Data

Test preparations and testing shall be by the Group AEC4 test conductor. All test data shall be recorded on test data sheets. Each test data sheet shall be completed and approved by the test conductor prior to

2.3 Recording of Test Data (Continued)

starting the next test. Photographs of the unit under test (UUT), test setups, and testing, shall be taken as required. A log book shall be maintained of all testing, including abnormal conditions.

2.4 Test Equipment Certification

All equipment shall be certified in accordance with MIL-C-45662A and NPC-200-2 which are described in SPB 711.1. Maintain a record of all equipment used, including name of equipment, model number, serial number, and manufacturer.

2.5 Standard Conditions

Unless specified otherwise, test and measurements shall be performed with the UUT stabilized as follows:

Temperature:	68 to 90°F
Relative Humidity:	90% maximum
Pressure:	25 to 32 inches Hg

2.6 Damage or Failure

If the test specimen fails or is damaged in any way, the testing shall be stopped at the time of the incident. There shall be no change or alterations made in the testing configuration during the stopped period. The test conductor shall be notified and in turn shall notify the test director. Testing shall resume upon approval of the test conductor. In the event of a failed or rejected part, ensure that SPB 710.2 Failure and Rejection Report is completed and sufficient photographs taken.

2.7 Temperature Stabilization

Temperature stabilization is defined as the state existing 30 minutes after which further temperature change occurs at a rate no greater than 5°F per hour unless otherwise specified.

3.0 PROCEDURES AND RESULTS

The procedures and results of all tests are described in the following paragraphs and in the order performed. Reference pages A-6 and A-7 for test equipment utilized during the tests.

3.1 Pre-Test Inspection

The specimens were inspected and determined to be in conformance with Douglas Drawing 1367324.

3.2 Circuit Resistance Check

The resistance between the following pins was measured and recorded before connecting any connector to the specimen. A Leeds and Northrup Model 5305 wheatstone bridge was used for measurements in the 0 to 0.5 megohm range. After 50 vdc was applied for 30 seconds, the 5 megohm measurements were made using a General Radio Type 1862-B megohmmeter.

Connector			Requirement
J1:	Between Pins:	G and H	1 ohm maximum
		C and J	25 ohms minimum
		B and J	1 ohm maximum
		J and Unit Case	5 megohms minimum
J2:	Between Pins:	H and L	1 ohm maximum
		J and C	1K (±50) ohms
		J and L	1.5K ohm minimum
		J and Unit Case	5 megohms minimum
		K and B	1K (±50) ohms
		K (-) and L (+)	2K ohms minimum
		M and L	1 ohm maximum
		L and Unit Case	5 megohms minimum
		E and M	5 megohms minimum

3.2 Circuit Resistance Check (Continued)

Connector		Requirement
J3: Between Pins:	F and G	1 ohm maximum
	G and H	5 megohms minimum
	H and K	1 ohm maximum
	K and C	5 megohms minimum
	C and J	1 ohm maximum
	J and B	5 megohms minimum
	B and A	1 ohm maximum
J2 and J3	E and E	10K (±0.5K) ohms

(S/N) 01 resistance between pins G(+) and J(-) of connector J1 was 5.2% below the requirement. See addendum page C-1. S/N 03 resistance between pins J(+) and L(-) of connector J2 was 0.5% below the requirement, see page D-1. All other measurements were within specified limits.

3.3 Circuit Loading

a. A 12.5-ohm (±5%), 4-watt resistor was connected across pins J and L and a 200-ohm (±5%), 5-watt resistor across pins K and L of connector J2, respectively, by switching S2 to position 2. (See page A-3.)

b. A 10-ohm (±5%), 10-watt resistor was connected between each pair of pins listed below by switching S4 to position 2. (See page A-4.)

J3-F and J3-G
J3-H and J3-K
J3-C and J3-J
J3-B and J3-A

3.4 Calibration

Each specimen was connected to the test setup (see pages A-3 and A-4) and were loaded by setting panel switches S2 and S4 to "ON". 28 vdc power was applied to the specimen by closing S1. The +5 vdc output voltage was adjusted by potentiometer R5 (module A3) to +5.000 ± 0.003 vdc. The -20 vdc output voltage was adjusted to -20.000 ± 0.003 vdc by potentiometer R8 (module A4). The DC inputs and outputs were measured by a Cimron 7500A

3.4 Calibration (Continued)

digital voltmeter. The square wave frequency between pins J3-A and J3-B was adjusted to 2000 ± 5 Hz by potentiometer R7 (module A1). The frequency was measured by a Systron-Donner electronic counter. The DC output ripples were measured by a Tektronix Model 549 oscilloscope. The square wave peak-to-peak voltages across each of the output pairs F and G, H and K, C and J, B and A of connector J3 were measured on the oscilloscope; the frequency and balance on the electronic counter.

Measurements for both S/Ns 01 and 03 were within specified limits, reference data pages C-2 and D-2.

3.5 Pre-Environmental Tests

The test specimen was connected to the test setup shown on pages A-3 and A-4 and were loaded by setting panel switches S2 and S4 to "ON". 24 vdc power applied by closing S1 to ON position. The input voltages output voltages, ripple, and frequencies were measured as outlined in paragraph 3.4. The DC load currents were calculated taking the voltage drops across the load resistors with the Cimron 7500A digital voltmeter and dividing by the known load resistances. This was done because the panel meters indicated erroneous currents. Square wave amplitudes were measured by setting S5 to desired output winding position. (These amplitude readings were taken right at the pins and not at the loads.) The square wave frequency and balance were repeated for 28, 32, 24 vdc inputs. After completing the above, the load resistors for the +5 vdc and -20 vdc outputs were disconnected by switching S2 to "OFF" and repeating

3.5 Pre-Environmental Tests (Continued)

the above for each input voltage with the exception that no current measurements were made.

The output requirements were as follows:

Connector	Pins	Voltages
J2	C(+) and M(-)	5.000 (±0.025) vdc
J2	M(+) and B(-)	20.0 (±0.04) vdc
J3	F(+) and G(-)	10 (±1) volts peak-to-peak
J3	H(+) and K(-)	10 (±1) volts peak-to-peak
J3	C(+) and J(-)	10 (±1) volts peak-to-peak
J3	B(+) and A(-)	10 (±1) volts peak-to-peak

All pre-environmental test data for S/Ns 01 and 03 were within specified limits. See pages C-3 through C-10 for S/N 01 and pages D-3 through D-12 for S/N 03. The calibration was repeated for S/N 01 after A-axis sinusoidal vibration due to a change in the test control drawing. All measurements were within specified limits, see page C-11. The photograph on page B-2 shows the test setup during the pre-environmental test.

3.6 Vibration Tests

3.6.1 Vibration test were performed on the C-125 vibration system in the EE Subsystems Laboratory and test specimens hard mounted to a rigid test fixture during tests, see pages B-3 and B-4. The Acoustics and Structural Dynamics section approved the vibration test setups, specified accelerometer locations (see page A-5) and controlled the vibration aspects of the tests. Six vibration accelerometer outputs were to be monitored and data to be recorded on magnetic tape. Due to instrumentation problems accelerometer No. 2 response data was not obtained. S/N 01 random C-axis accelerometer 4 did not record. S/N 03 sine A-axis

3.6 Vibration Tests (Continued)

3.6.1 (Continued)

accelerometer 3 did not record. The input voltage and current, the DC output voltages and currents, and square wave outputs were continuously recorded before, during and after vibration on a consolidated Electrodynamics Model 5-124 oscillograph. The DC output ripple was observed throughout the tests on an oscilloscope. Specimen operation during the vibration tests were performed with 28 vdc applied between pins J1-J(+) and J1-G(-), and all output loads connected.

3.6.2 Sinusoidal Vibration

The following frequency range was scanned logarithmically at a rate of 1.0 octave per minute from low frequency to high frequency and back to low frequency in each of the three mutually perpendicular directions at the listed inout levels:

*Direction A

Hz	Vibration Levels
20 - 36	0.4" D.A. Disp.
36 - 60	27 g's peak
60 - 150	9.5 g's peak
150 - 250	0.008" D.A. Disp.
250 - 2000	25 g's peak

3.6.2 Sinusoidal Vibration (Continued)

*Direction B and C

Hz	Vibration Levels
20 - 36	.22" D.A. Disp.
36 - 60	15 g's peak
60 - 150	5.7 g's peak
150 - 250	.0046" D.A. Disp.
250 - 2000	15 g's peak

*Direction A (Radial) perpendicular to skirt.
Direction B (Thrust) tangential to skirt.
Direction C (Tangential) parallel to skirt.

During A-axis vibration S/Ns 01 and 03 measurements were within specified limits. S/N 01 also underwent an additional pre-environmental test after A-axis vibration. During B-axis sine vibration both specimens met the requirements although they were susceptible to the magnetic field produced by the shaker and responded with an 8 Hz increase in the square wave outputs. S/N 03 input current did increase momentarily (10 ma for 2 seconds) during B-axis sine vibration at 25 Hz upsweep. All measurements during C-axis vibration were within tolerance. Reference pages C-12 through C-50 for S/N 01 data and pages D-13 through D-40 for S/N 03.

3.6.3 Random Vibration

The random vibration had an approximate gaussian amplitude distribution and a peak-to-rms ratio of three. Equalization of the random input was accomplished by using a random vibration level of the actual test level on the bare table. The test specimen was attached to a bracket and

3.6.3 Random Vibration (Continued)

a 10-second loop was recorded. The random input loop was analyzed and then the remaining vibration accomplished. The equalized spectrum was monitored and readjusted during the tests as necessary by using individual meters on each channel of the spectral density equalizer-analyzer. The acceleration spectral density applied to test specimen was within ± db (on a power basis) when measured with a filter having a bandwidth of 50 Hz or less, and was recorded using a spectral density power analyzer in conjunction with an X-Y plotter.

The specimens were subjected to random excitation for 12 minutes per axis. The excitation was applied as one input over the frequency interval from 20 to 2000 Hz as follows:

Direction A

Hz	Vibration Levels
20 - 100	.2 g^2/Hz
100 - 150	+8 db/oct
150 - 700	.6 g^2/Hz
700 - 900	-18 db/oct
900 - 2000	.135 g^2/Hz

Directions B and C

Hz	Vibration Levels
20 - 100	.05 g^2/Hz
100 - 150	+8 db/oct
150 - 700	.15 g^2/Hz
700 - 900	-18 db/oct
900 - 2000	0.034 g^2/Hz

3.6.3 Random Vibration (Continued)

Tests results were within specified limits during all three axes of vibration for both specimens. S/N 01 data is pages C-51 through C-64, S/N 03 data is on pages D-41 through D-55.

3.6.4 Post-Vibration Test

Subsequent to the sinusoidal and random vibration testing, a post-test was conducted on each specimen. The tests were identical to the procedures outlined in paragraph 3.5. All test results were within specified tolerances. Reference pages C-65 through C-72 and D-56 through D-63 for data recorded during these tests.

3.7 High Temperature

3.7.1 The post-vibration test served as the pre-temperature test. The test chamber was stabilized at 135°F for both specimens which were oriented in the A-axis within a box so as to minimize the air flow around it. All inputs and outputs of the specimen, and 9 thermocouples on the specimen were recorded continuously. The DC output ripples were observed every 15 minutes throughout the test on a Tektronix 549 oscilloscope. Reference pages B-5 and B-6 for photographs.

S/N 01 was operated for 1 hour and 40 minutes prior to start of test, before test data was recorded. See addendum pages C-73 through C-125. S/N 03 was not operated until the start of the test. See addendum pages D-64 through D-118. Both specimens met all requirements and specifications during this test.

3.7.2 Post-Temperature Tests

Subsequent to performing the high temperature tests on S/Ns 01 and 03, both specimens were subjected to post-tests identical to the procedures outlined in paragraph 3.5. All measurements were within specified limits. See data pages C-126 through C-141, and D-119 through D-133 for S/Ns 01 and 03 respectively.

3.8 Post-Test Inspection

Upon completion of all testing, the specimens were examined for evidence of physical damage. No damage was noted.

4.0 DISCUSSION

The original calibration procedure required an adjustment of the square wave output voltages by potentiometer R7 (module A1) to 5.00 ± 0.01 vac (true rms) and a frequency of 2000 ± 200 Hz. Serial No. 03 was unable to meet the frequency requirement which necessitated a calibration procedure change and was performed as described in paragraph 3.4.

A 45 and 20 mv peak-to-peak noise level from the test console during the calibration, pre-environmental, and environmental tests obliterated the ripple on the DC outputs. (No significant change in noise level resulted from the test console with the specimen first connected then disconnected.) At no time during environments did the ripple exceed the noise level (100 mv peak-to-peak maximum ripple). See data sheets D-11 and D-12 for typical noise levels.

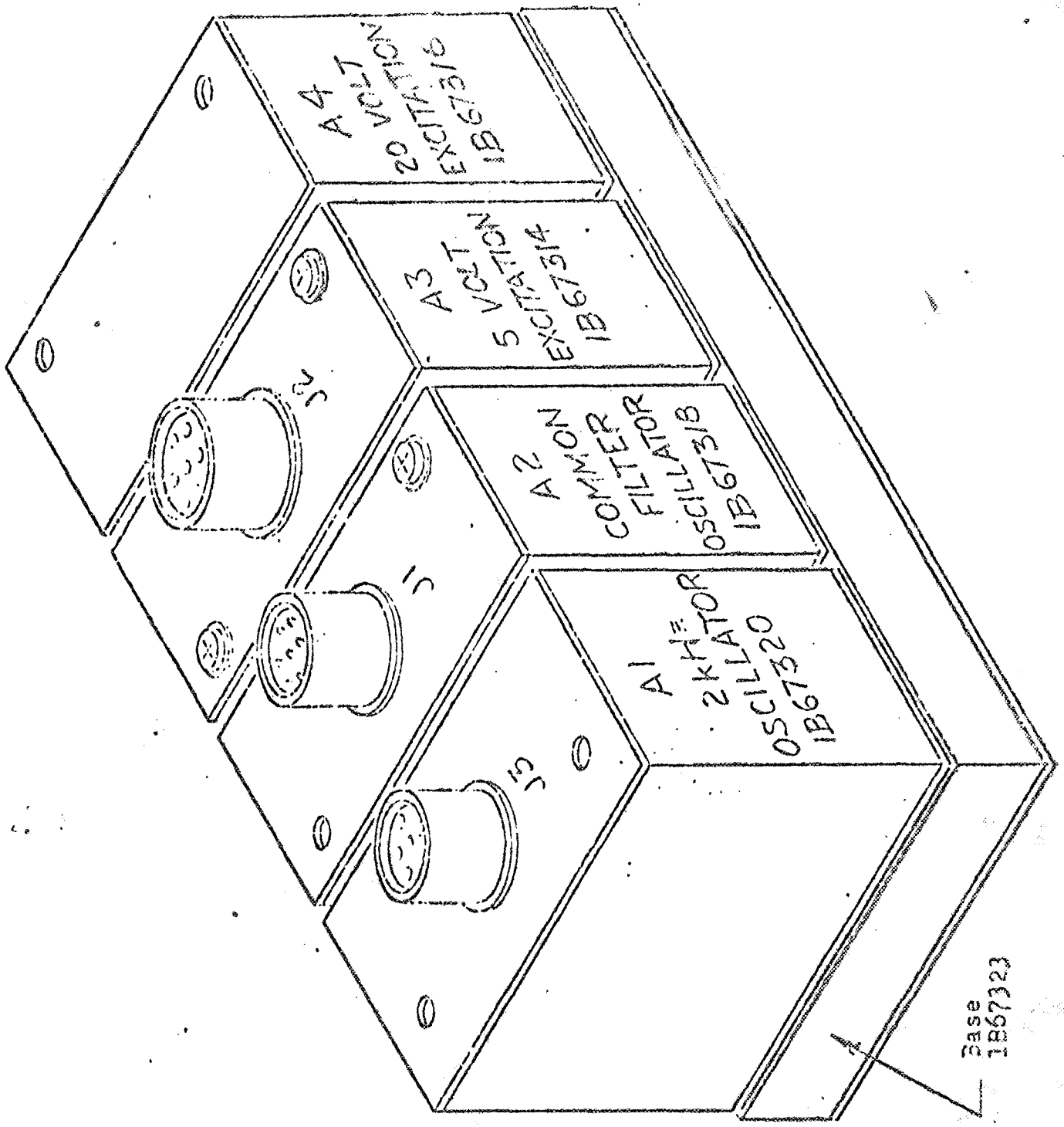
4.0 DISCUSSION (Continued)

No noise was noted from the test console during the post test. See data sheets C-132 through C-140 and D-127 through D-133. No apparent cause could be found for the momentary increase in current during sine vibration of S/N 03 in the R-axis.

J. Y. Itagaki
Test Engineer

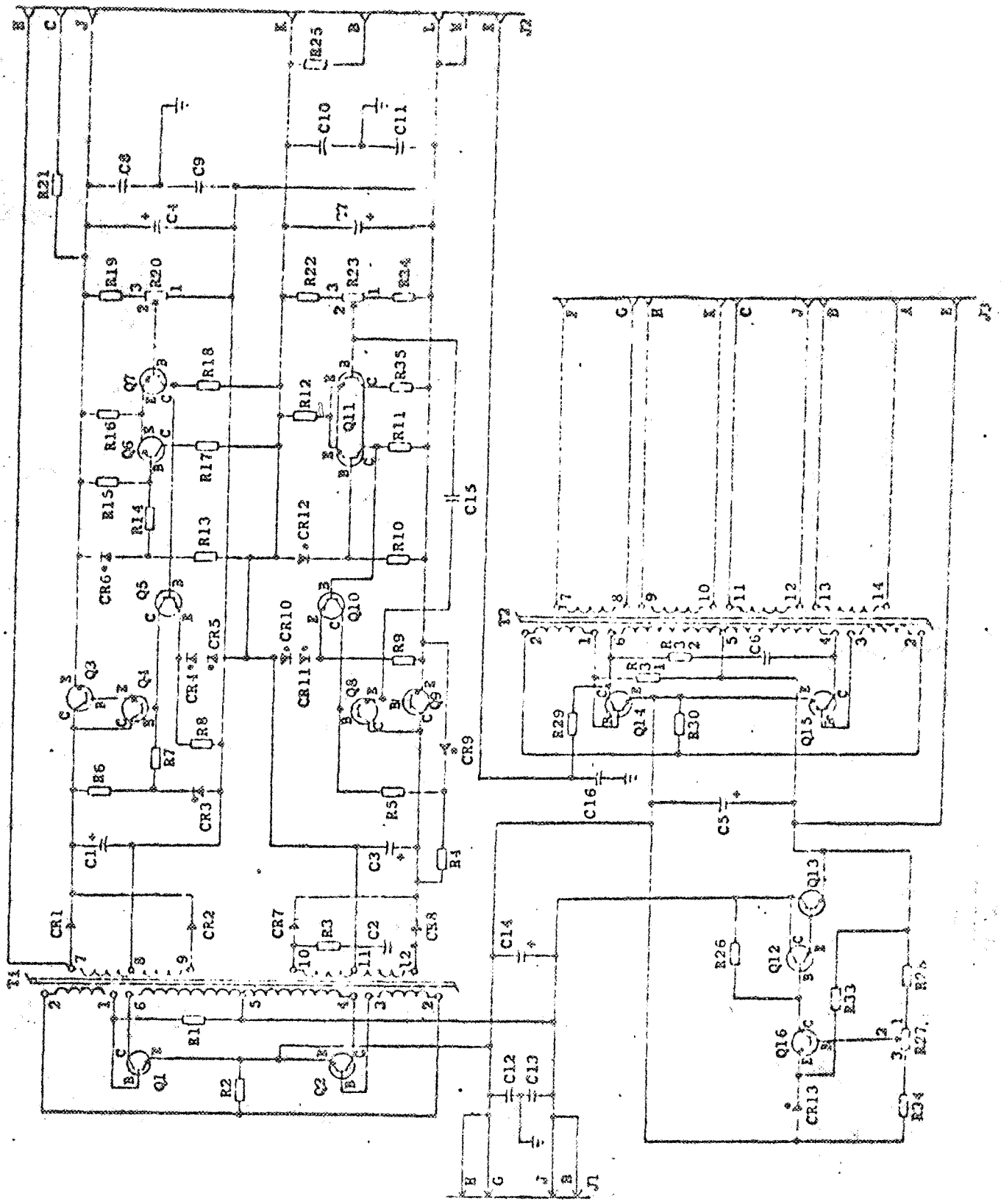
R. E. May
Group Engineer

J. L. Whittaker, Chief
Guidance and Control Laboratory
Electronics Department



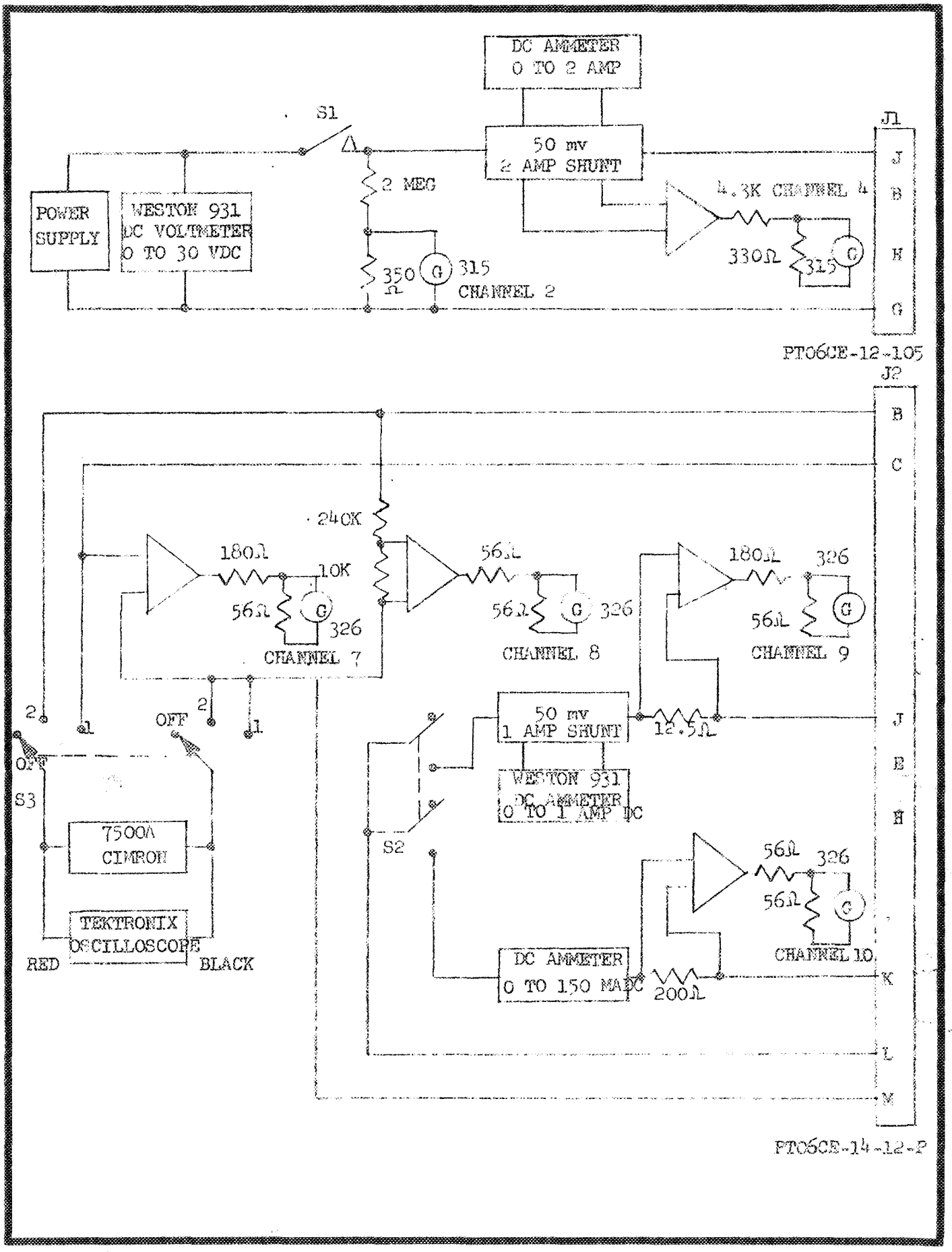
Voltage Excitation Assembly
P/N 1B67324

DOUGLAS	SIZE	CODE IDENT NO.	
	A	18355	
	SCALE	LTR	SHEET

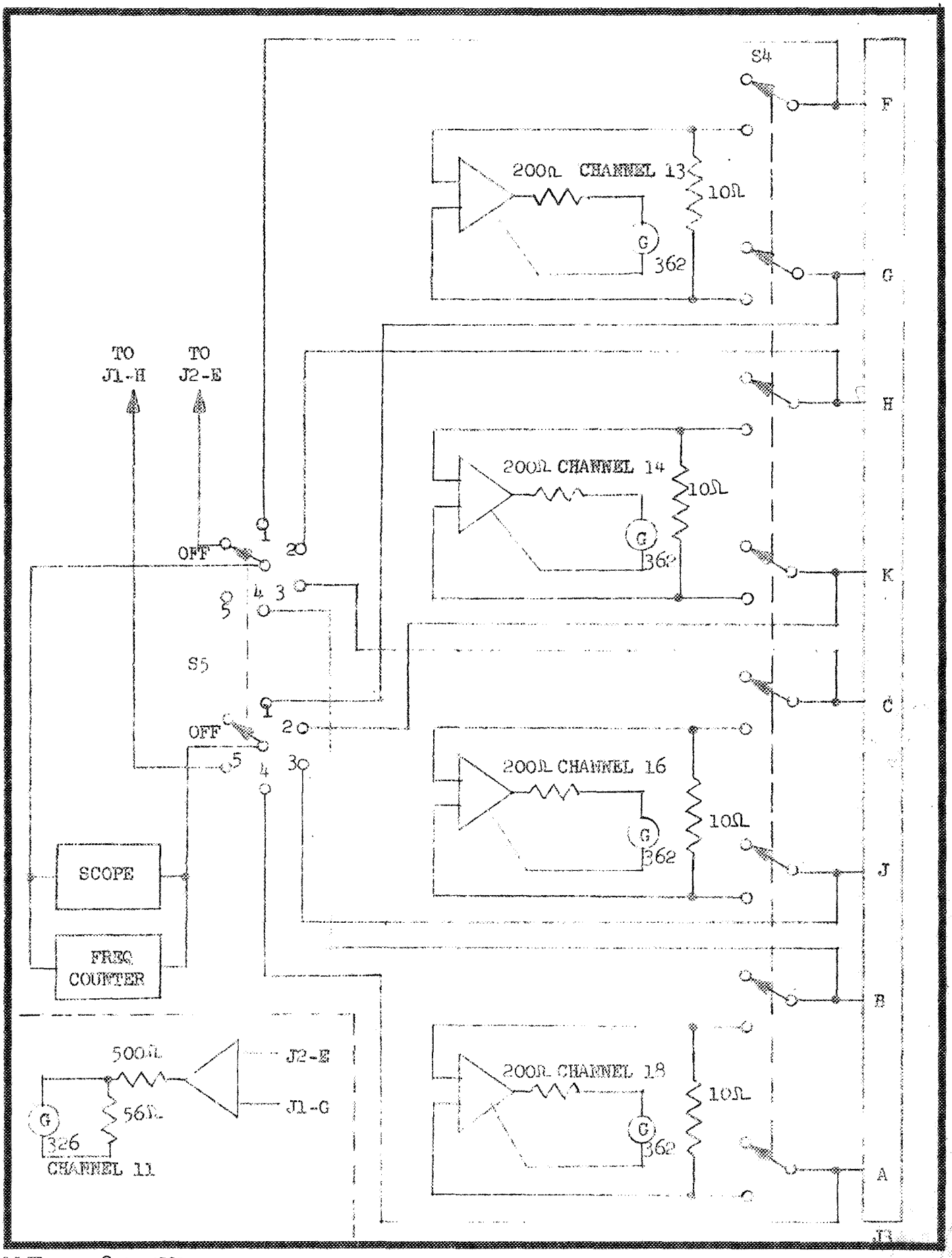


Electrical Schematic

DOUGLAS	SIZE	CODE IDENT NO.	
	A	18355	
	SCALE	LTR	SHEET



K+E ALSANENE® LA 1789 TRACING PAPER


S4
F
200Ω CHANNEL 13
10Ω
G
362
G
TO J1-H
TO J2-E
H
200Ω CHANNEL 14
10Ω
G
362
OFF
1
2
3
4
5
K
S5
C
OFF
1
2
3
4
5
200Ω CHANNEL 16
10Ω
G
362
J
SCOPE
FREQ COUNTER
B
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CHANNEL 11
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G
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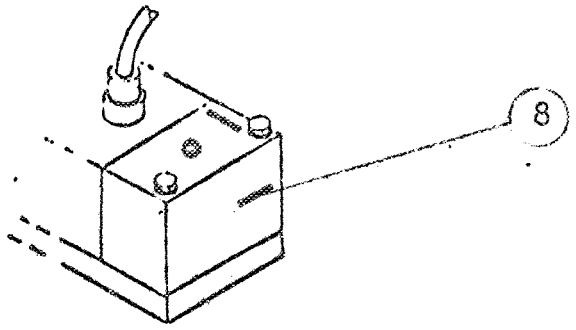
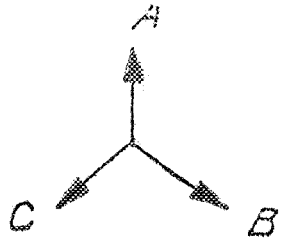
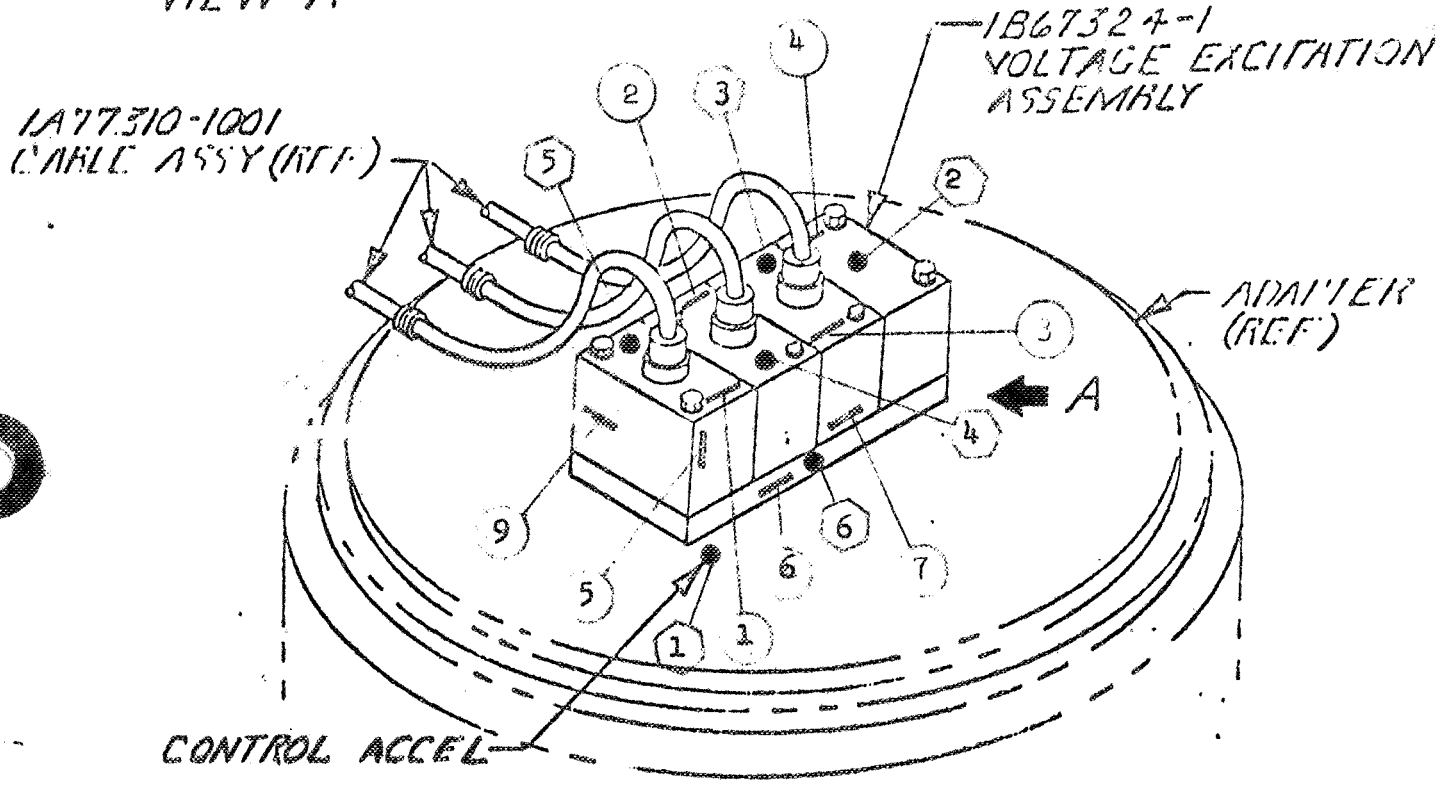
A
J3



VIEW A





GENERAL NOTES:

1. LOCATIONS OF ACCELEROMETERS ARE SUBJECT TO APPROVAL OF A&SD
2. ACCELEROMETER ● 6 PLACES (Hexagon numbers)
3. THERMOCOUPLE — 9 PLACES (circled numbers)

Typical Vibration Test Set Up (For Reference Only, See Test Instrumentation Drawing 1T10612).

DOUGLAS	SIZE	CODE IDENT NO.	
	A	18355	
	SCALE	LTR	SHEET

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NUMBER	CERT. DUE
DC-Voltmeter 0-50V	Weston Electric Instrument Corp.	931	570002	
DC Ammeter 0-50 mv	Weston Electric Instrument Corp.	931	583042	809
DC Ammeter 0-1 amp	Weston Electric Instrument Corp.			811
DC Ammeter 0-150 ma	Weston Electric Instrument Corp.			825
Digital Voltmeter AC-DC	Cimron	7500	641331	819
Counter	Systron-Donner	1034	662152	814
Power Supply 0-50V DC	Kepco	SC-32-5	653978	837
Oscilloscope	Tektronix	549	001199	815
4 - DC Amplifiers	Dynamics	6451		812-829
1 - DC Amplifier	Dynamics	6456	6447-0002	822
4 - DC Amplifiers	Calico	3400		826
9 - Isolation Transformers	Triad	N67A	---	---
Temperature Recorder	Honeywell	Y153X(67)-P12-II-III (101)	16609	806
Temperature Chamber	Conrad	F1-27-5-5	7240	837
Resistance Bridge	Leeds and Northrup	5305	1649422	814
Megohmmeter	General Radio	1862-B	1803	
Oscillograph	Consolidated Electrodynamics	5-124	625210	813

K+E ALBANENE® LA 1789 TRACING PAPER

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NUMBER	CERT. DUE
Galvanometers	Consolidated Electrodynamics	7-315	17848	851
		7-315	13640	851
		7-315	12900	851
		7-326	5610	851
		7-326	14008	851
		7-326	13348	844
		7-326	14533	845
		7-326	14338	845
		7-362	8038	851
		7-362	8212	851
		7-362	8386	851
		7-362	14262	826

FORM 25-S-1
(REV. 8-53)

PREPARED BY:
CHECKED BY:
DATE:
TITLE:

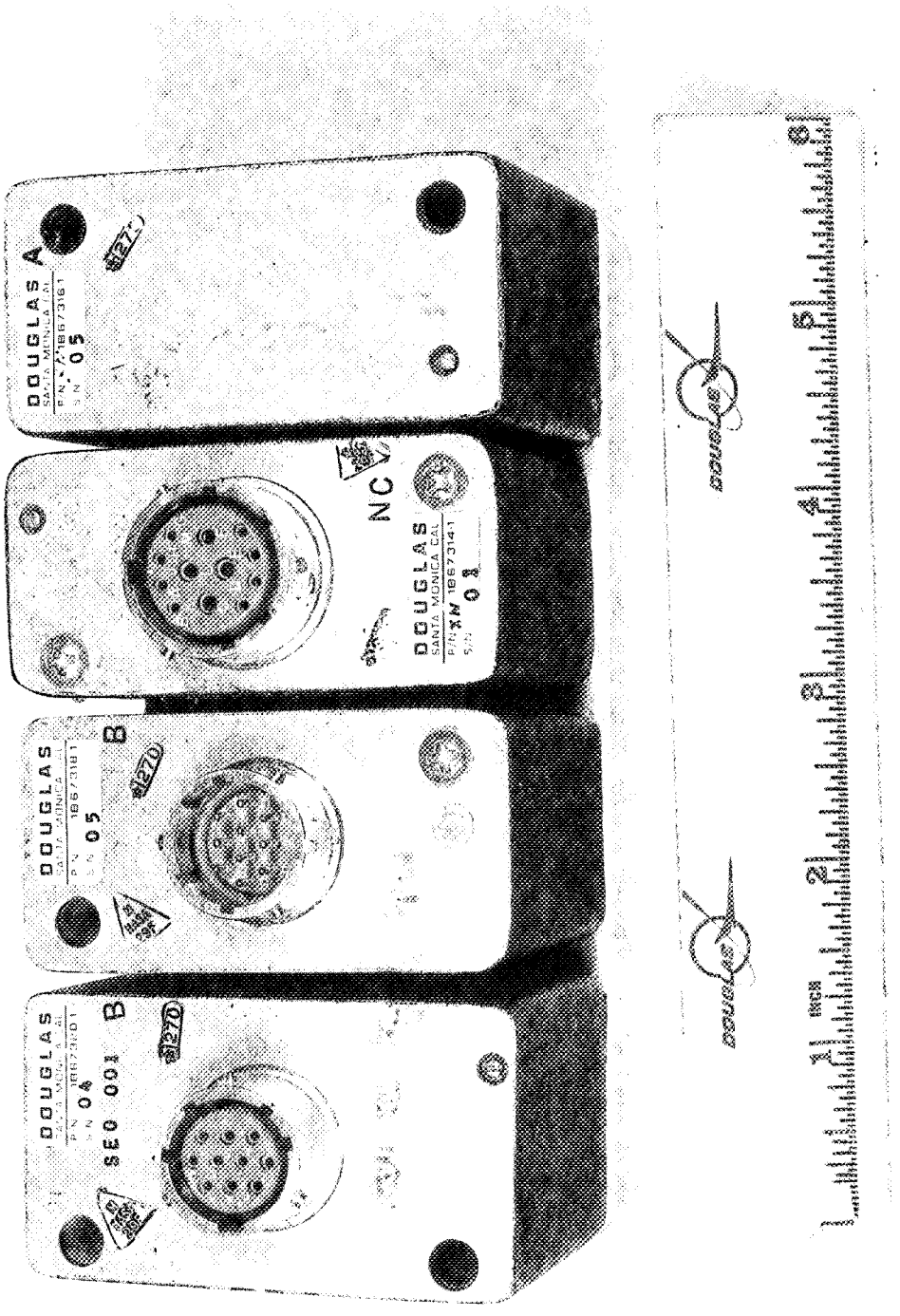
DOUGLAS AIRCRAFT COMPANY, INC.

MISSILE & SPACE SYSTEMS DIVISION

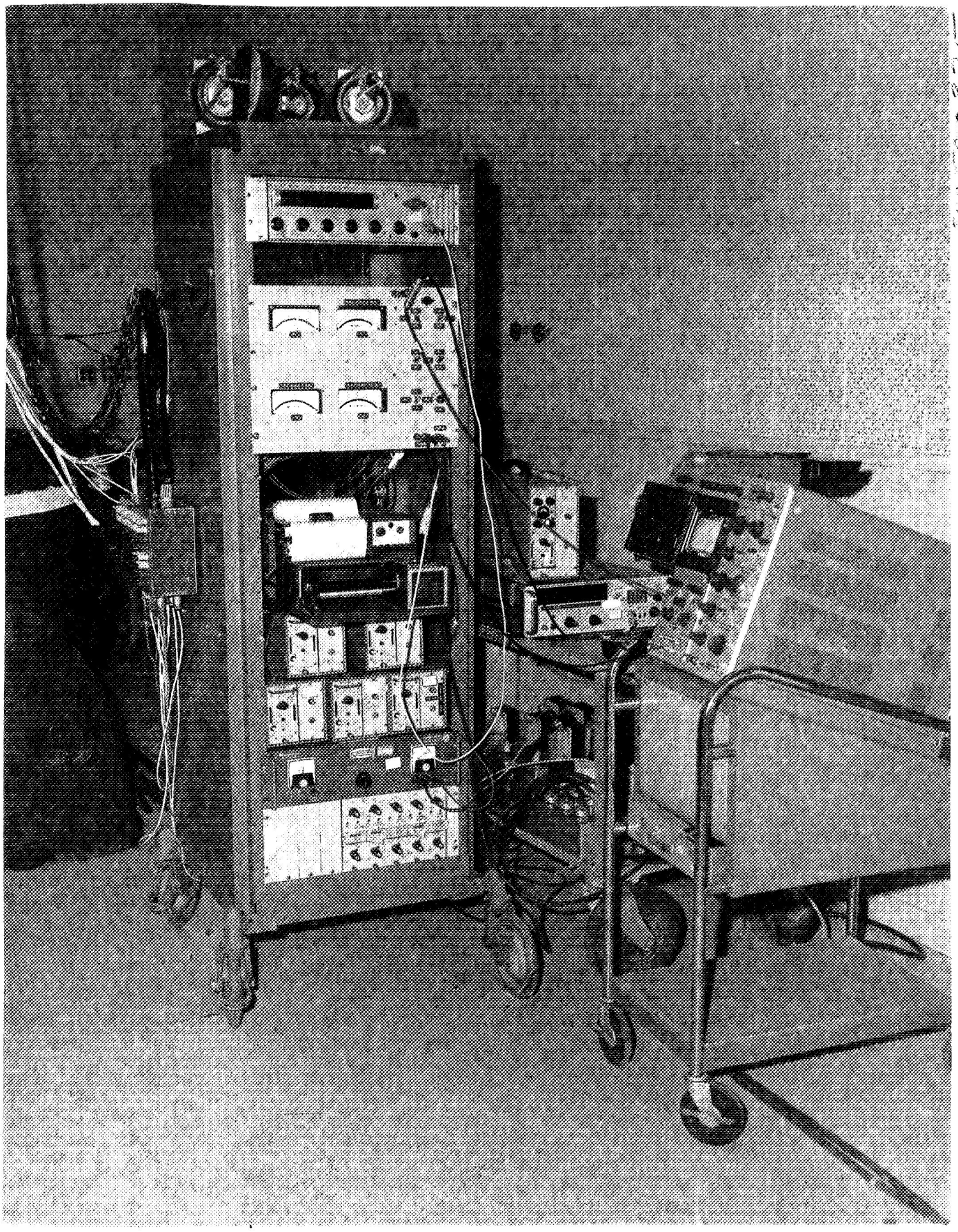
TEST SPECIMEN, S/N 01

PAGE:
MODEL: DSV-4P
REPORT NO.: R-61[illegible]

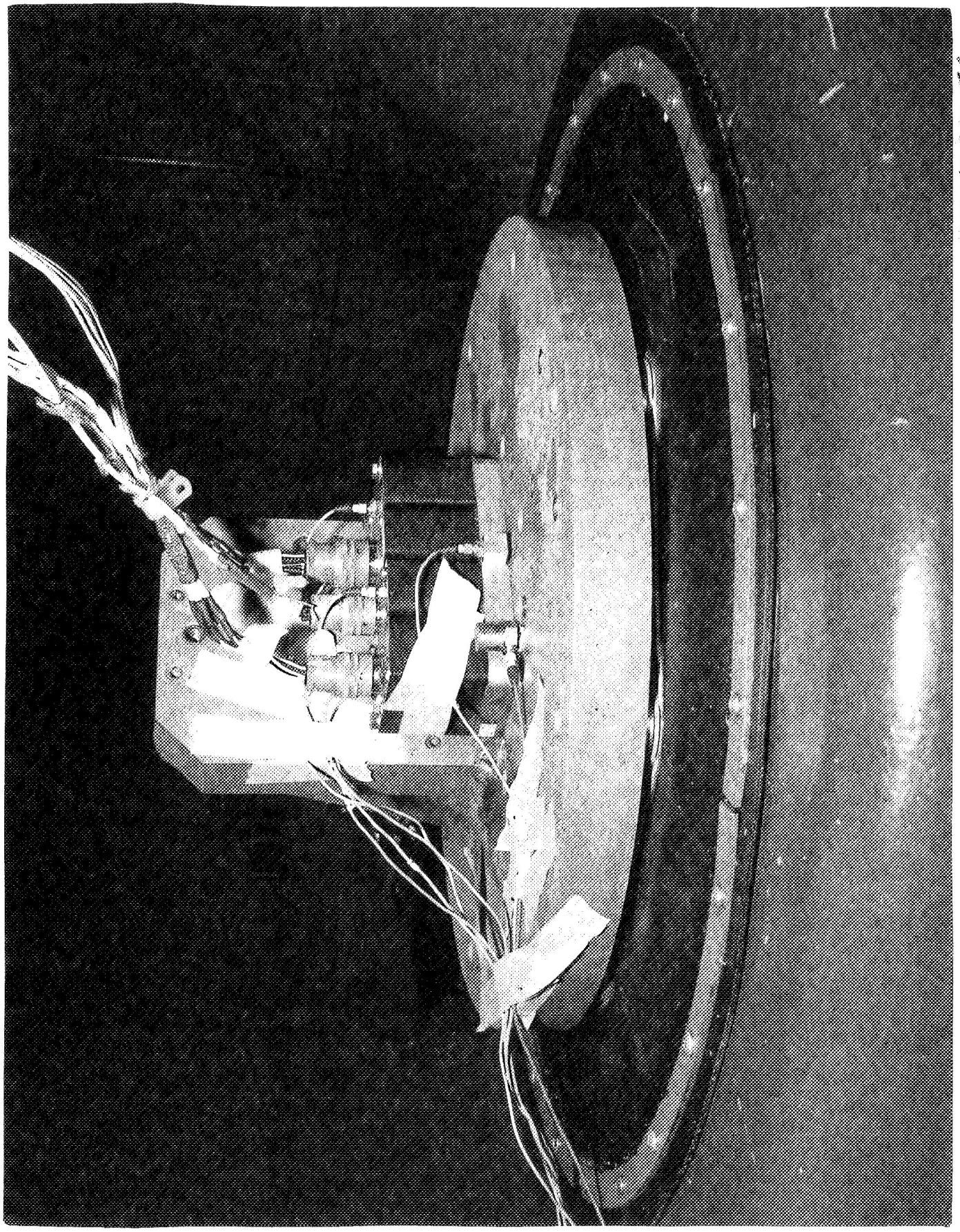
S/N 499732



TEST SETUP



A-AXIS VIBRATION TEST SETUP



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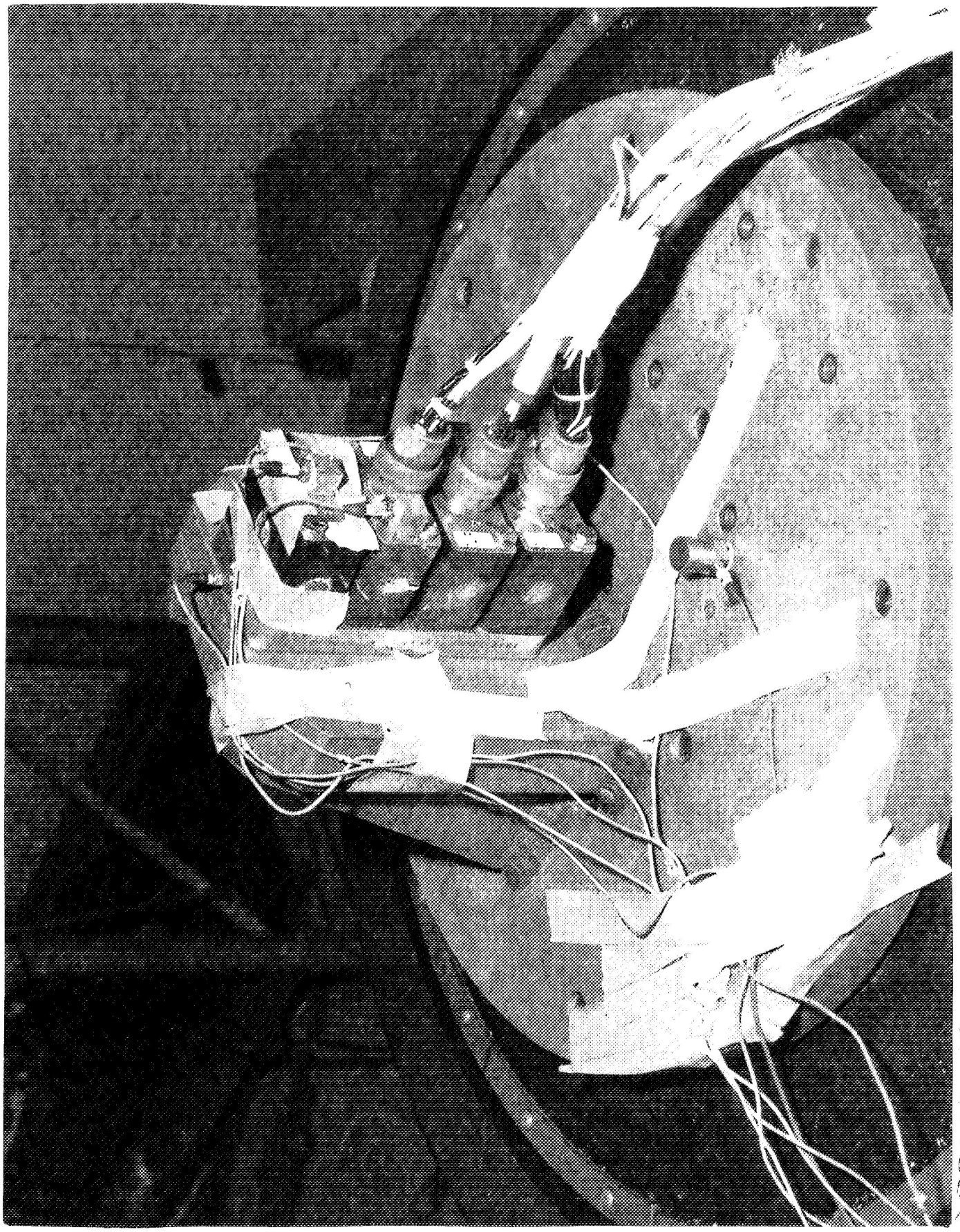
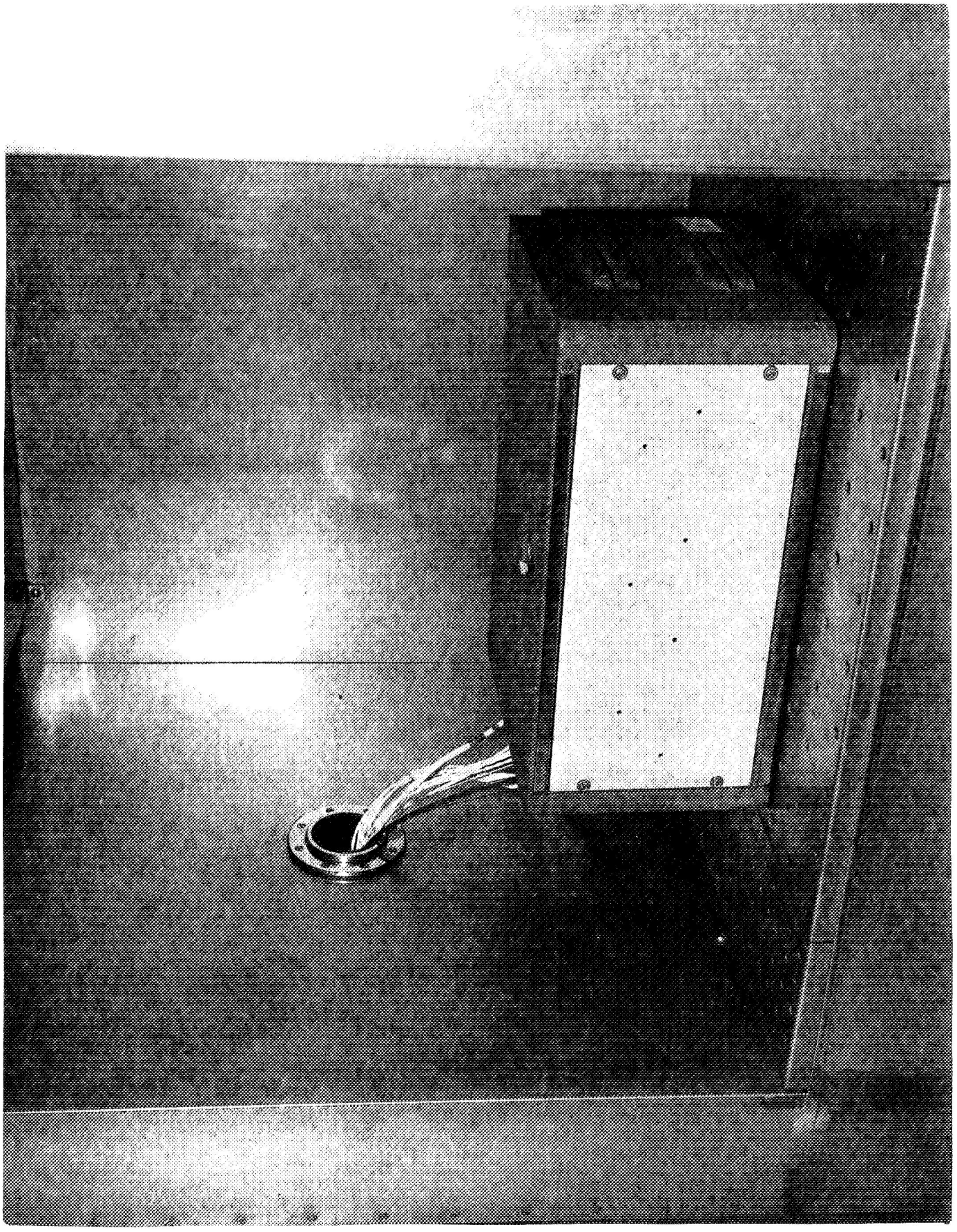


TEMPERATURE TEST SETUP



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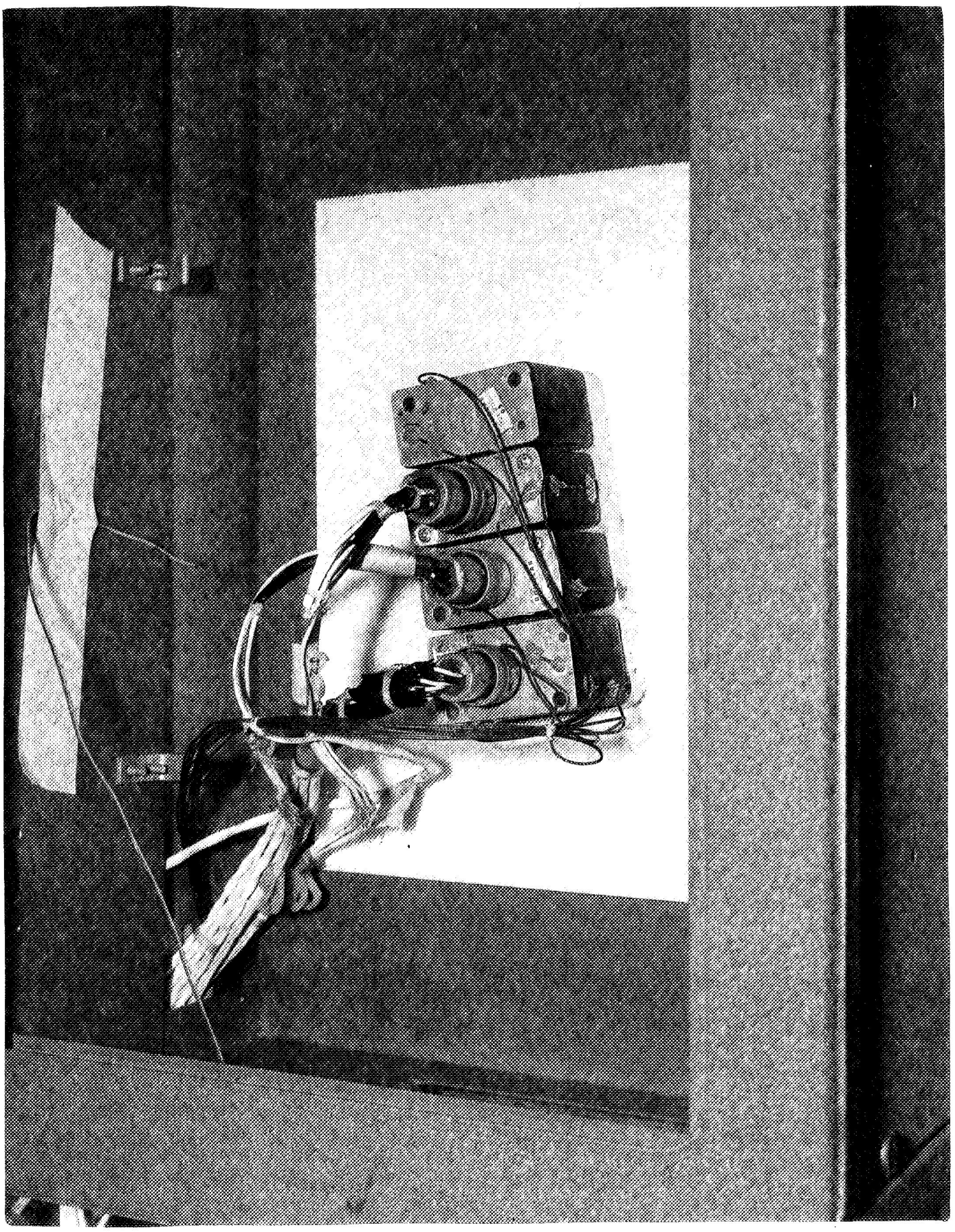


SM500529

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 12-26-67 CIRCUIT RESISTANCE TEST REPORT NO. R-6255

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-48

OBSERVER M. Gardyne LABORATORY G & C ENGINEER J. Itagaki

CIRCUIT RESISTANCE CHECK

Connector	Between Pins	Required	Measured	
J1	G and H	1 ohm max	0.04	ohm
	(+)G and J(-)	25 ohm min	~~1171~~ 23.73	ohm
	B and J	1 ohm max	0.04	ohm
	J and Case	5 megohm min	100,000	megohm
J2	H and L	1 ohm max	0.40	ohm
	J and C	1 K ± 50 ohms	994.2	ohm
	J and L	1.5 K ohm min	1501	ohm
	J and Case	5 megohm min	INF.	megohm
	K and B	1 K ± 50 ohm	996	ohm
	K (-) and L (+)	2 K ohms min	2079	ohm
	M and L	1 ohm max	0.04	ohm
	L and Case	5 megohm min	INF.	megohm
	E and M	5 megohm min	200,000	megohm
J3	F and G	1 ohm max	0.17	ohm
	G and H	5 megohm min	INF.	megohm
	H and K	1 ohm max	0.18	ohm
	K and C	5 megohms min	INF.	megohm
	C and J	1 ohm max	0.19	ohm
	J and B	5 megohm min	INF.	megohm
	B and A	1 ohm max	0.19	ohm
J2 and J3	E and E	10K ± .5K ohm	10.01	Kohm

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 12-27-67 CALIBRATION (FIRST) TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29254 T.C.D. 1710611 MODEL NO. DSU-4B

OBSERVER M. Gardyne LABORATORY G&C ENGINEER V. Itagaki

LOADED ✓ NOT LOADED _____ 0995 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		1.024 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9990 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.3 ~~380~~ ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ~~95.2~~ ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	5.00 vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	2156 Hz
	J2-J1	E and H	2000 ± 200 Hz	2156 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.06 v p-p
			frequency	2156 Hz
			balance	(+)233.9, (-)229.7 μs
	J3	H and K	10 ± v p-p	9.92 v p-p
			frequency	2156 Hz
			balance	(+)234.0, -229.6 μs
	J3	C and J	10 ± 1 v p-p	10.12 v p-p
			frequency	2156 Hz
			balance	(+)234.0, 229.6 μs
	J3	B and A	10 ± 1 v p-p	10.00 v p-p
			frequency	2156 Hz
			balance	(+) 233.9, (-)229.7 μs

COMMENTS:

Square wave output voltage measured at the load (at end of 10'-8" harness).

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/2/68 PRE-VIBRATION TEST REPORT NO. B-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-4B

OBSERVER M. Gardyne LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 0830 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.980 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9943 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.991 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.1 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.6 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2118 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.70 v p-p
			frequency	2118 Hz
			balance	+237.6 -234.2 μs
	J3	H and K	10 ± v p-p	9.44 v p-p
			frequency	2118 Hz
			balance	+237.7 -234.2 μs
	J3	C and J	10 ± 1 v p-p	9.64 v p-p
			frequency	2119 Hz
			balance	+237.7 234.1 μs
	J3	B and A	10 ± 1 v p-p	9.60 v p-p
			frequency	2119 Hz
			balance	+237.7 -234.1 μs

COMMENTS:

1/2/68 - Pre-vibration square wave output voltages measured at load (at end of 10'-8" harness).

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/2/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER M. Gardyne LABORATORY G & C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.999 vdc
Input Current	J1	J(+) and G(-)		1.012 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9950 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.994 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.1 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.56 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2157 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.88 v p-p
			frequency	2157 Hz
			balance	+233.6 230.0 μs
	J3	H and K	10 ± v p-p	9.62 v p-p
			frequency	2157 Hz
			balance	+233.6 229.9 μs
	J3	C and J	10 ± 1 v p-p	9.84 v p-p
			frequency	2157 Hz
			balance	233.7 229.5 μs
	J3	B and A	10 ± 1 v p-p	9.80 v p-p
			frequency	2157 Hz
			balance	+233.6 229.8 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/2/68 PRE-VIBRATION TEST REPORT NO. P-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		31.999 vdc
Input Current	J1	J(+) and G(-)		1.048 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9952 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.7 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	2184 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.00 v p-p
			frequency	2183 Hz
			balance	+230.6 -227.5 μs
	J3	H and K	10 ± v p-p	9.76 v p-p
			frequency	2183 Hz
			balance	+230.7 -229.3 s
	J3	C and J	10 ± 1 v p-p	9.96 v p-p
			frequency	2183 Hz
			balance	+230.7 -227.2 μs
	J3	B and A	10 ± 1 v p-p	9.90 v p-p
			frequency	2183 Hz
			balance	+230.7 -227.3 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/69 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29254 T.C.D. 131061 MODEL NO. DGV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.988 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9943 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.991 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.1 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2121 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.64 v p-p
			frequency	2121 Hz
			balance	+ 237.2 -234.3 μs
	J3	H and K	10 ± v p-p	9.46 v p-p
			frequency	2121 Hz
			balance	+237.2 -234.2 μs
	J3	C and J	10 ± 1 v p-p	9.66 v p-p
			frequency	2120 Hz
			balance	+237.2 -234.3 μs
	J3	B and A	10 ± 1 v p-p	9.62 v p-p
			frequency	2121 Hz
			balance	237.2 234.3 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/2/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.732 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9915 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2124 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.72 v p-p
			frequency	2124 Hz
			balance	+237.2 -233.6 μs
	J3	H and K	10 ± v p-p	9.48 v p-p
			frequency	2123 Hz
			balance	+237.3 - 233.5 μs
	J3	C and J	10 ± 1 v p-p	9.70 v p-p
			frequency	2123 Hz
			balance	+237.3 - 233.5 μs
	J3	B and A	10 ± 1 v p-p	9.70 v p-p
			frequency	2123 Hz
			balance	+237.2 - 233.5 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-2-68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM F-42B

S.O. 5769-6304 E.W.O. 20294 T.C.D. 1F10611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.999 vdc
Input Current	J1	J(+) and G(-)		0.760 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9916 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2161 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.88 v p-p
			frequency	2161 Hz
			balance	+233.1 -229.6 μs
	J3	H and K	10 ± v p-p	9.66 v p-p
			frequency	2161 Hz
			balance	+233.2 -229.5 μs
	J3	C and J	10 ± 1 v p-p	9.88 v p-p
			frequency	2161 Hz
			balance	+233.2 -229.5 μs
	J3	B and A	10 ± 1 v p-p	9.82 v p-p
			frequency	2161 Hz
			balance	+233.1 -229.5 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/2/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.000 vdc
Input Current	J1	J(+) and G(-)		0.792 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9918 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2186 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.00 v p-p
			frequency	2186 Hz
			balance	230.1 227.4 μs
	J3	H and K	10 ± v p-p	9.80 v p-p
			frequency	2185 Hz
			balance	230.2 227.3 μs
	J3	C and J	10 ± 1 v p-p	10.00 v p-p
			frequency	2185 Hz
			balance	230.1 227.4 μs
	J3	B and A	10 ± 1 v p-p	9.94 v p-p
			frequency	2185 Hz
			balance	230.1 227.8 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/2/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ 0915 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.001 vdc
Input Current	J1	J(+) and G(-)		0.732 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9915 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2124 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.76 v p-p
			frequency	2124 Hz
			balance	236.9 233.8 μs
	J3	H and K	10 ± v p-p	9.52 v p-p
			frequency	2124 Hz
			balance	237.0 233.7 μs
	J3	C and J	10 ± 1 v p-p	9.74 v p-p
			frequency	2124 Hz
			balance	237.0 233.6 μs
	J3	B and A	10 ± 1 v p-p	9.66 v p-p
			frequency	2124 Hz
			balance	237.0 233.6 μs

COMMENTS:

DATA SHEET

DATE 1/3/68 CALIBRATION (FIRST) TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DCV-4B

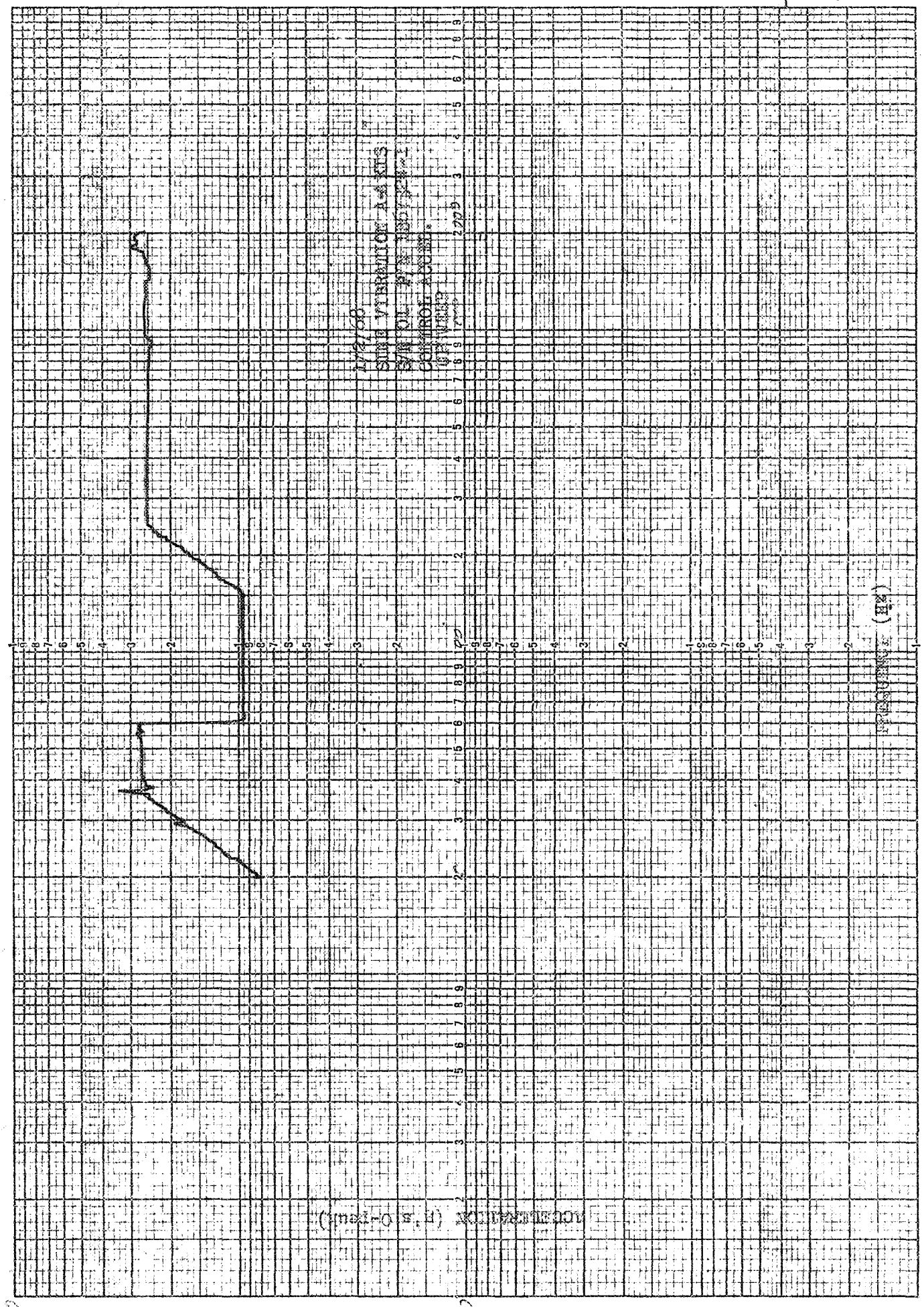
OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.000 vdc
Input Current	J1	J(+) and G(-)		1.012 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9957 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.2 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.1 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	5.13 vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	2157 Hz
	J2-J1	E and H	2000 ± 200 Hz	2157 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.3 v p-p
			frequency	2157 Hz
			balance	233.2 230.3 μs
	J3	H and K	10 ± v p-p	10.26 v p-p
			frequency	2157 Hz
			balance	233.2 230.2 μs
	J3	C and J	10 ± 1 v p-p	10.24 v p-p
			frequency	2157 Hz
			balance	233.3 230.2 μs
	J3	B and A	10 ± 1 v p-p	10.26 v p-p
			frequency	2157 Hz
			balance	233.2 230.2 μs

COMMENTS:

Revised test setup — square wave output voltage of CALIBRATION measured at pins. This was level at which S/N 01 was operated at during Sine Vibration - A - axis.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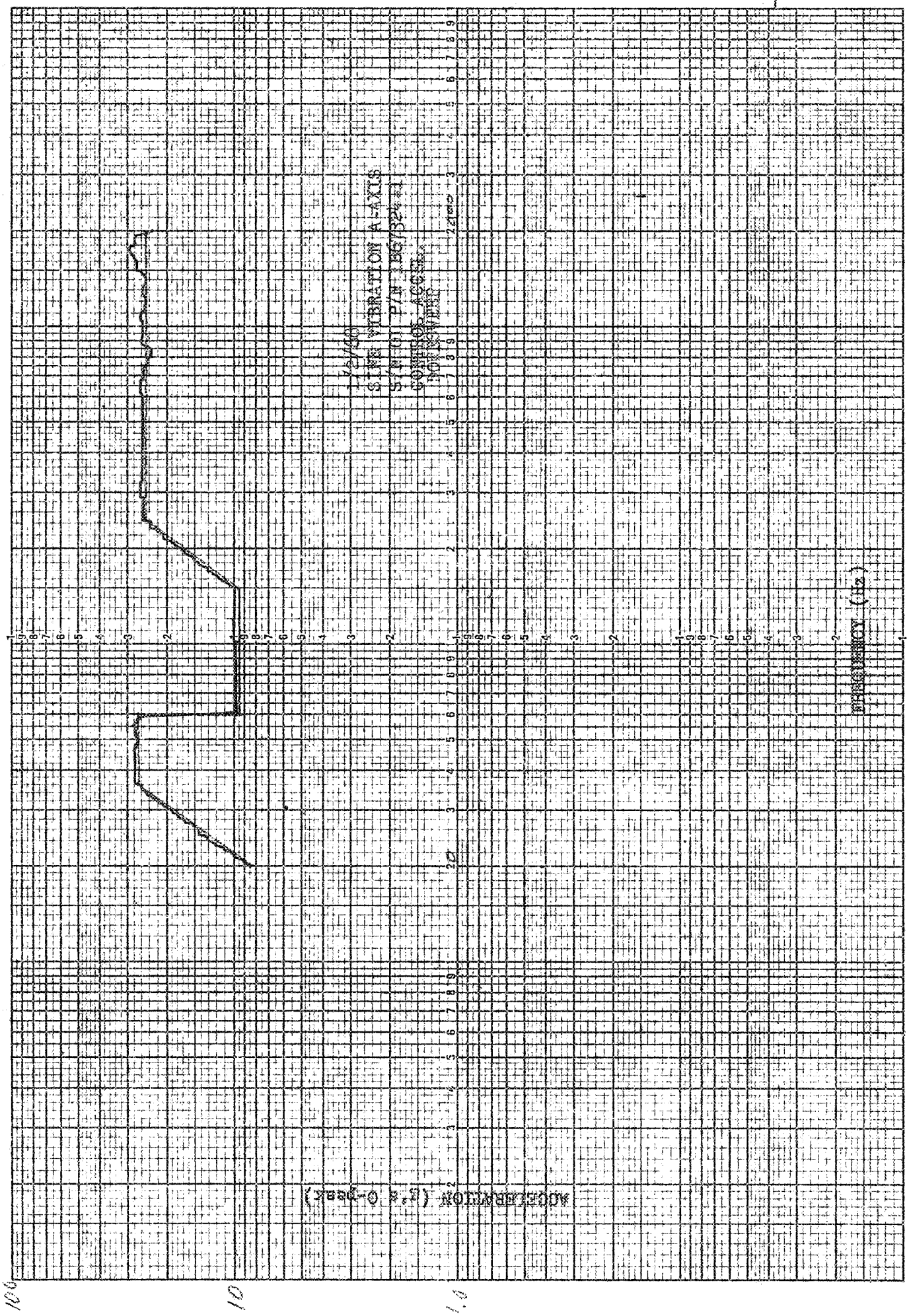
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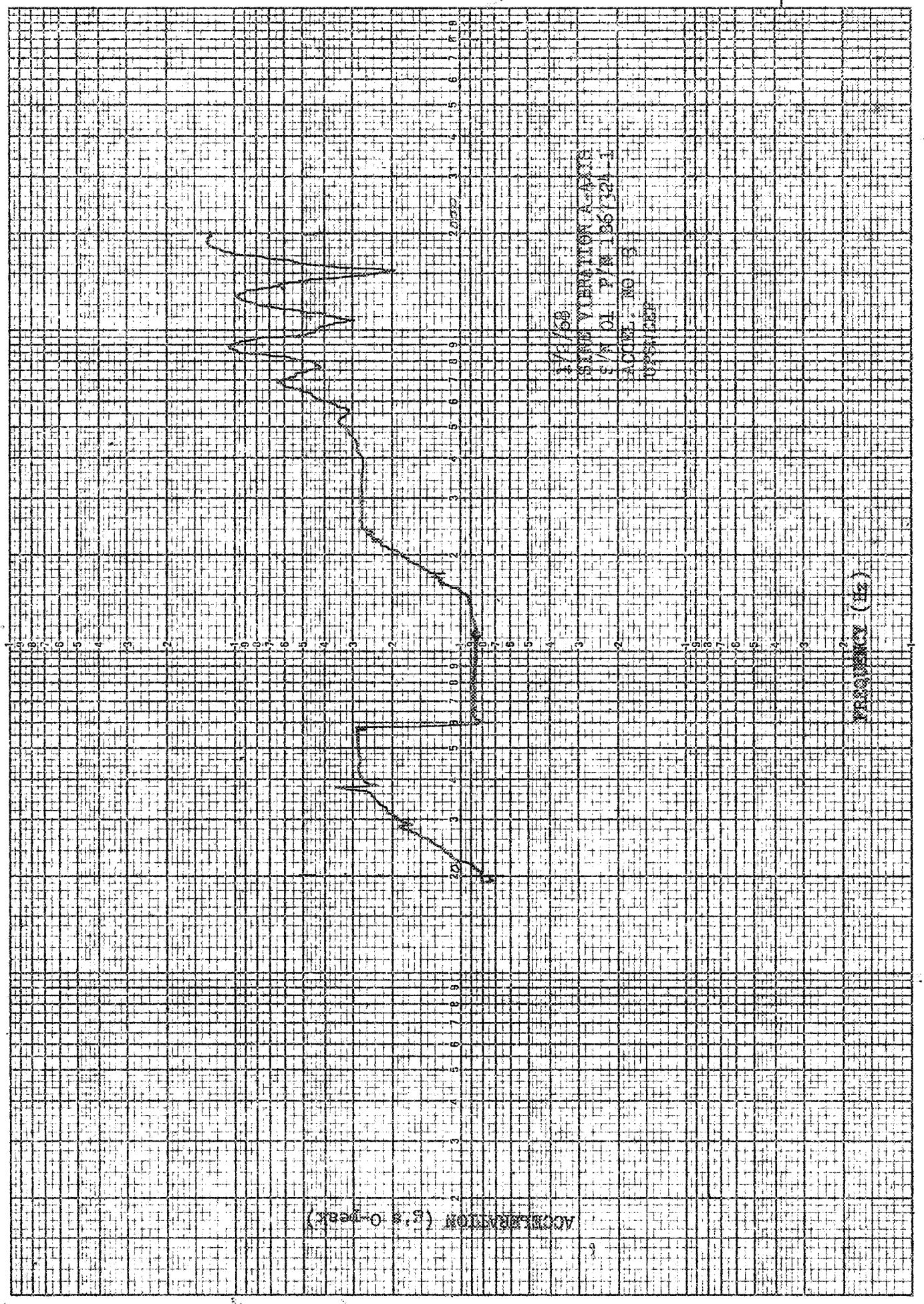
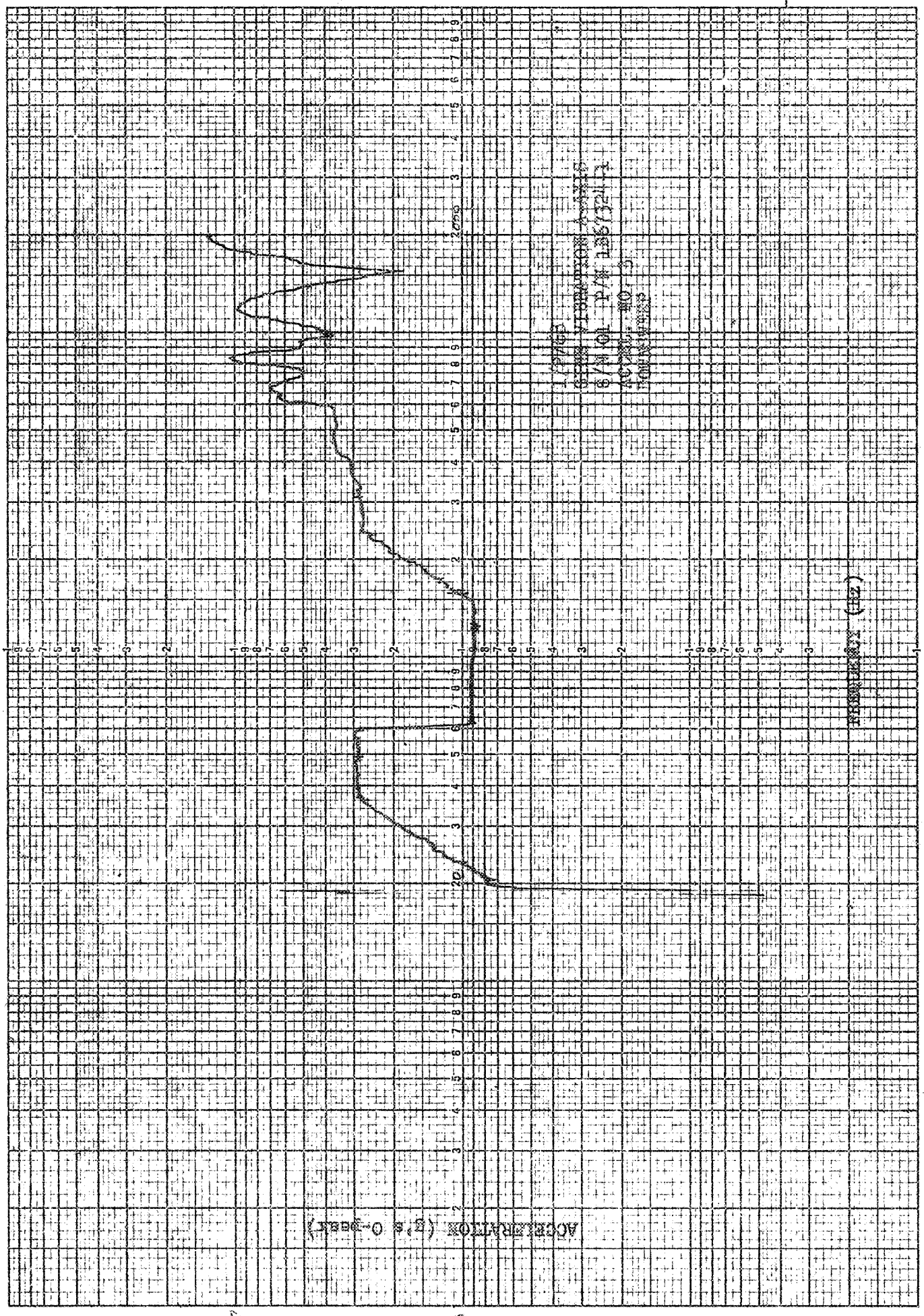
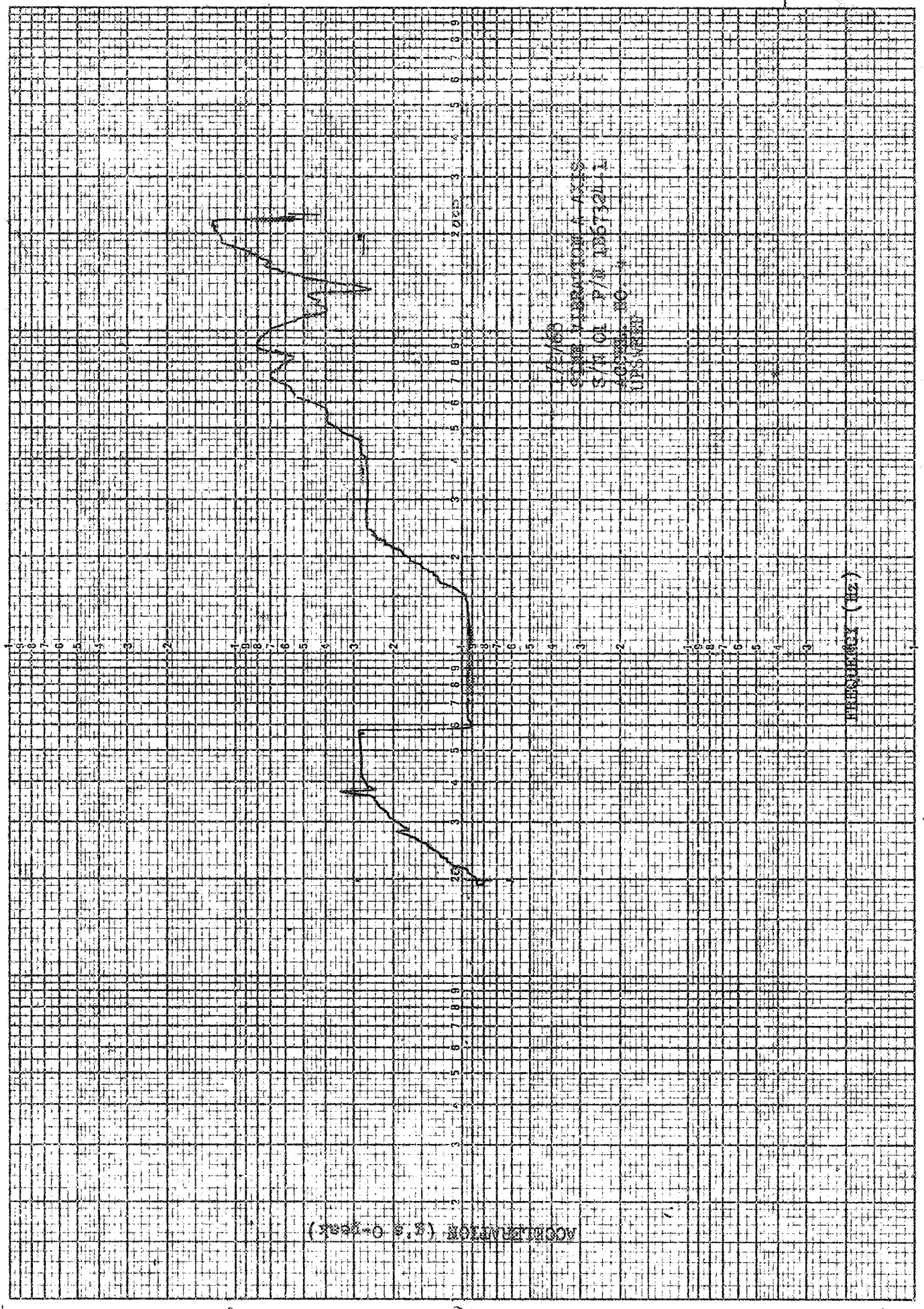
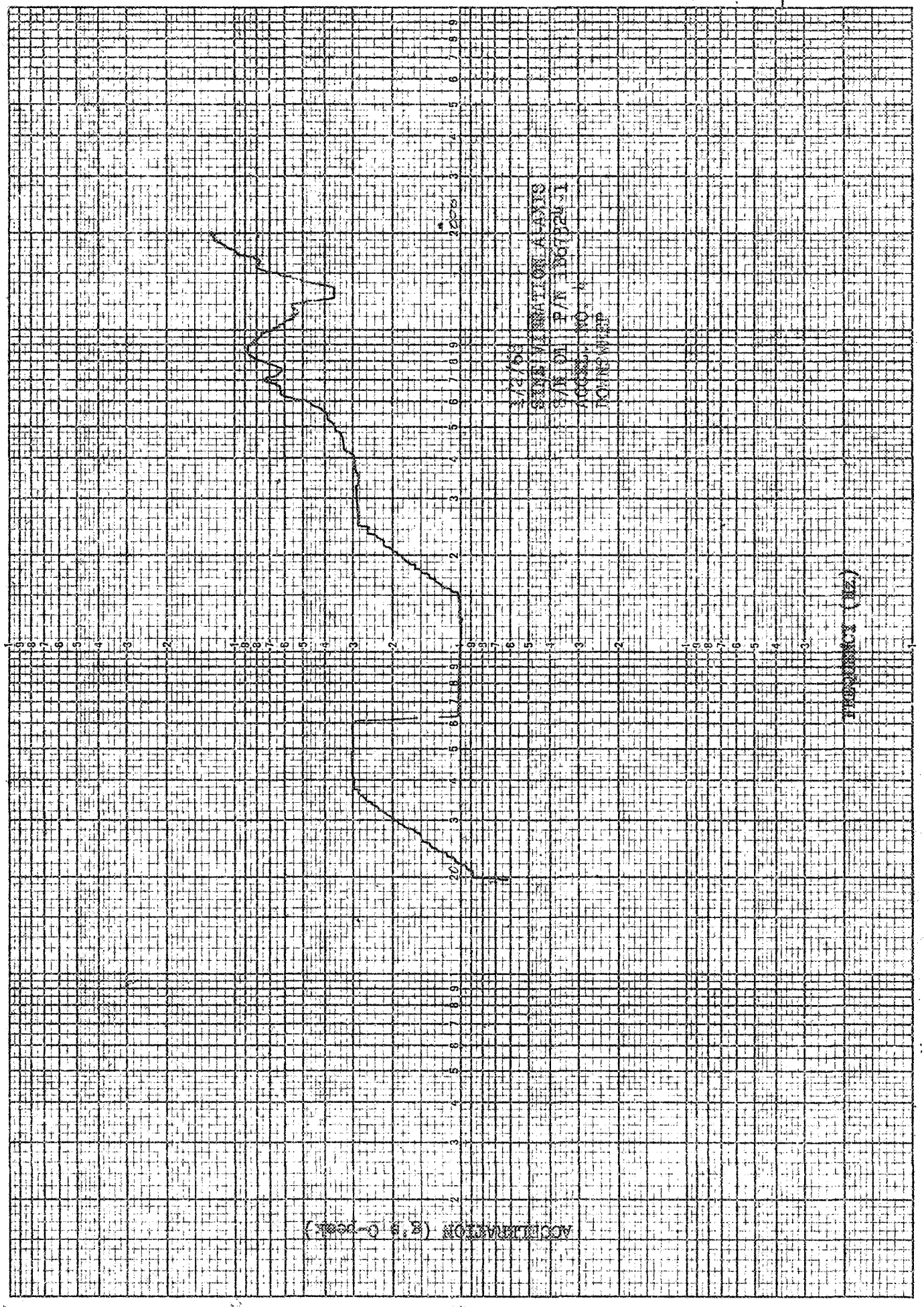
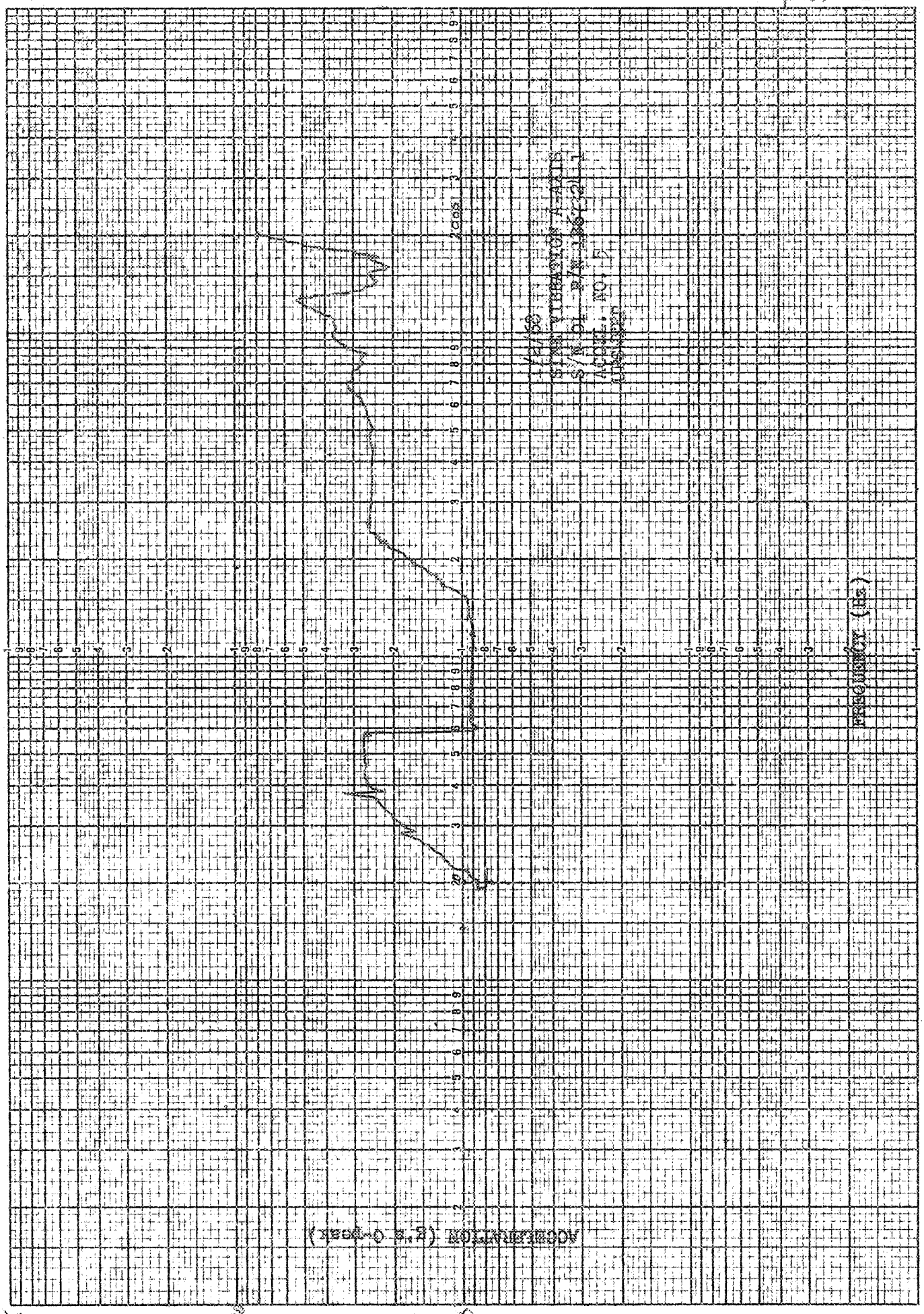
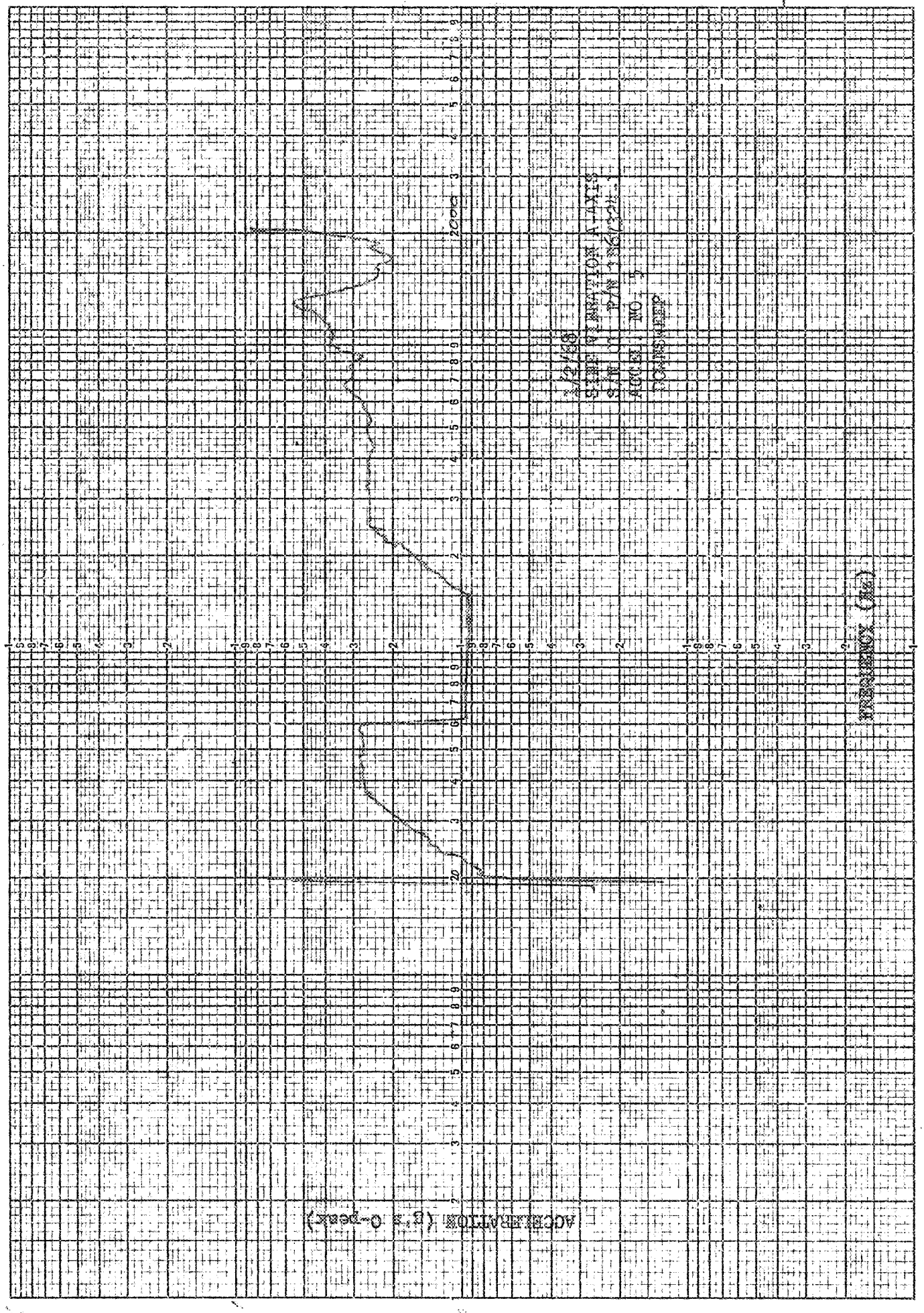

SINE VIBRATION A-AXIS
S/N 01 P/N 1367324-1
ACCEL. NO. 3
FREQUENCY (Hz)
ACCELERATION (G's 0-peak)

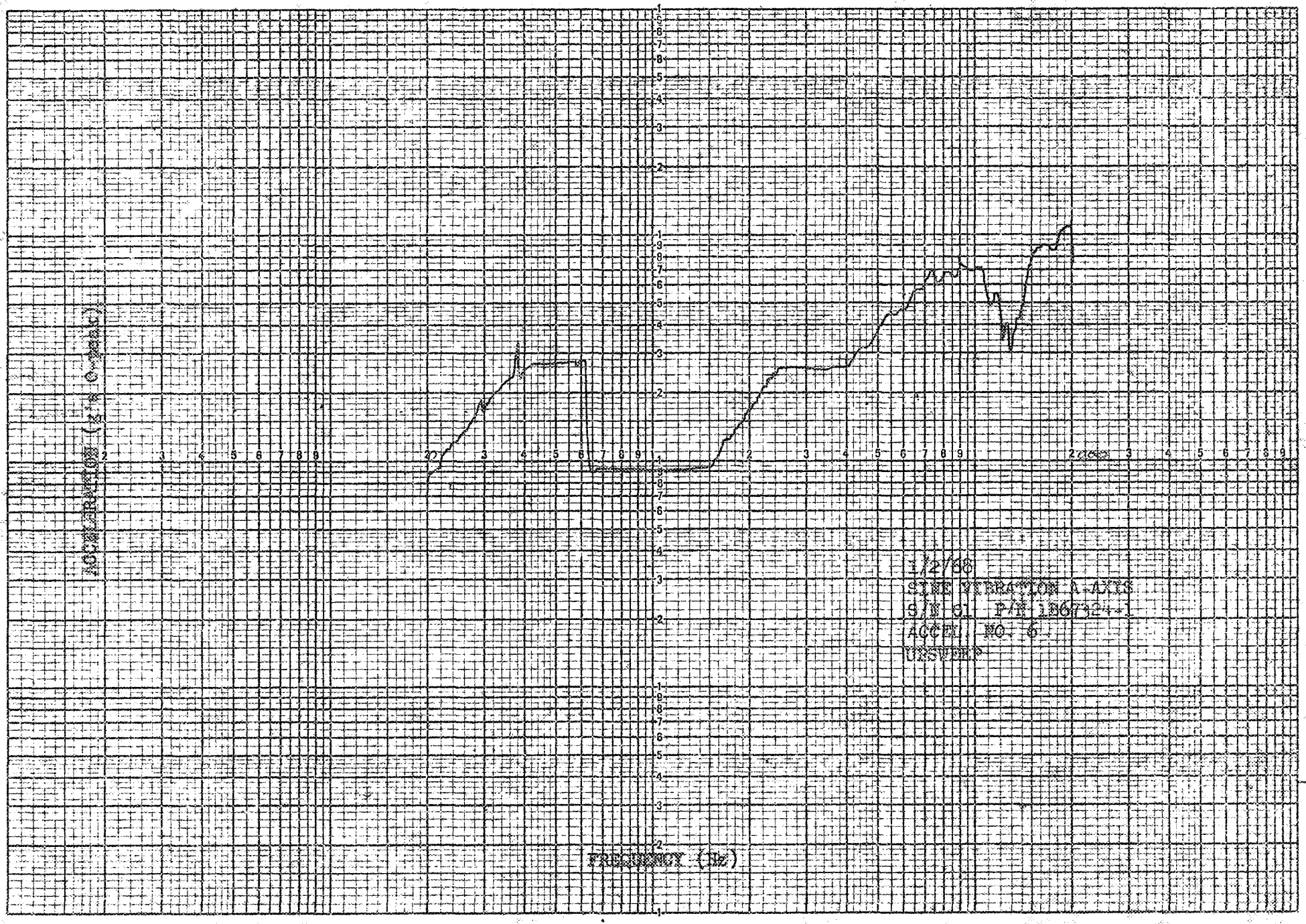

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)

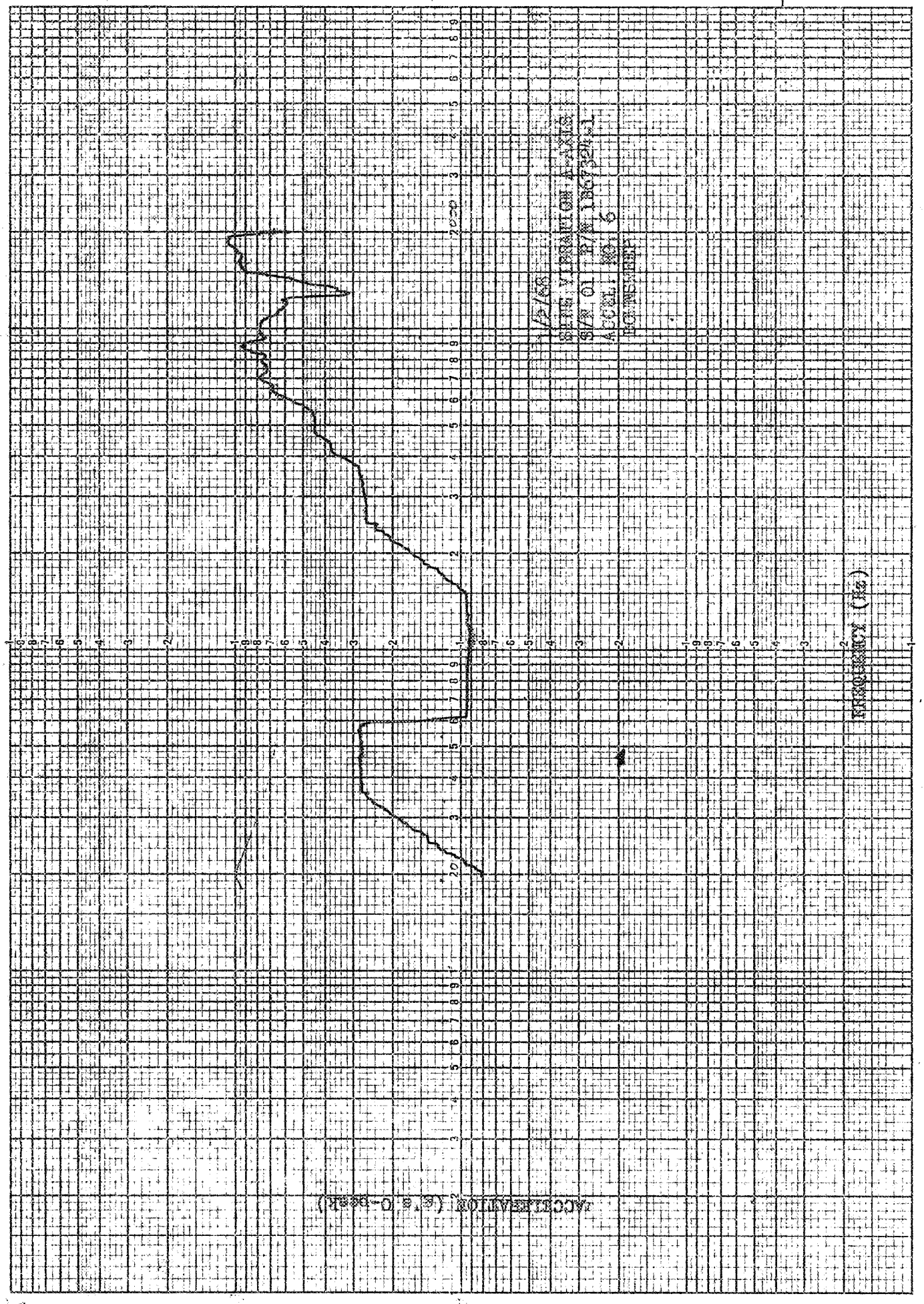

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)


SINE VIBRATION A-AXIS
ACCEL. NO. 4
DOWNSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)


FREQUENCY (Hz)
ACCELERATION (g's 0-peak)


1/2/68
SINE VIBRATION A-AXIS
ACCEL. NO. 5
DOWNSWEEP
FREQUENCY (Hz)
ACCELERATION (G's 0-peak)


ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
1/2/68
SINE VIBRATION A-AXIS
S/N 61 P/N 1867624-1
ACCEL NO. 6
UNSWEEP


1/2/68
SITE VIBRATION A-AXIS
S/N 01 R/N 1867324-1
ACCEL. NO. 6
DOWNSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 CALIBRATION (SECOND) TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM R-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-43

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.002 vdc
Input Current	J1	J(+) and G(-)		0.968 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9991 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.0[illegible] vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± ~~200~~ 5 Hz	2000 Hz
	J2-J1	E and H	2000 ± 200 Hz	2000 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2000 Hz
			balance	251.1, 248.6 μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2000 Hz
			balance	251.2, 248.5 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2001 Hz
			balance	251.2, 248.5 μs
	J3	B and A	10 ± 1 v p-p	10. v p-p
			frequency	2000 Hz
			balance	251.1, 248.5 μs

COMMENTS:

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29234 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1600 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.440 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1973 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1972 Hz
			balance	~~255.0~~ 254.7 , 252.3 μs
	J3	H and K	10 ± v p-p	9.8 v p-p
			frequency	1972 Hz
			balance	254.8 , 252.2 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1972 Hz
			balance	254.8 , 252.1 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1973 Hz
			balance	254.7 , 252.2 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.001 vdc
Input Current	J1	J(+) and G(-)		0.960 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9992 ~~+5.9992~~ vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. ~~2003~~ Hz
	J2-J1	E and H	2000 ± 200 Hz	2003 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2002 Hz
			balance	250.8 , 248.5 s
	J3	H and K	10 ± v p-p	~~2002~~ 10.0 v p-p
			frequency	2002 Hz
			balance	250.8 , 248.5 s
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2002 Hz
			balance	250.8 , 248.4 s
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2003 Hz
			balance	250.8 , 248.5 s

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM F-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1310611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Iwamaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.000 vdc
Input Current	J1	J(+) and G(-)		0.992 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9993 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2026 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2025 Hz
			balance	247.9 , 245.7 μs
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2026 Hz
			balance	247.9 , 245.6 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2026 Hz
			balance	248.0 , 245.6 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2025 Hz
			balance	248.0 , 245.6 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 001 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.940 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1974 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1974 Hz
			balance	254.3 252.1 μs
	J3	H and K	10 ± v p-p	9.8 v p-p
			frequency	1975 Hz
			balance	254.3 , ~~254.3~~ 252.0 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1974 Hz
			balance	254.3 , 252.0 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1974 Hz
			balance	254.3 , 252.0 μs

COMMENTS:

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.998 vdc
Input Current	J1	J(+) and G(-)		0.680 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9957 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.996 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1976 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1976 Hz
			balance	254.0 , 251.9 μs
	J3	H and K	10 ± v p-p	9.8 v p-p
			frequency	1976 Hz
			balance	254.0 , 251.8 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1976 Hz
			balance	254.1 , 251.8 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	254.0 , 251.8 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-43

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ 1620 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.999 vdc
Input Current	J1	J(+) and G(-)		0.712 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9958 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2006 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2006 Hz
			balance	250.4, 248.1 μs
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2005 Hz
			balance	250.4, 248.1 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2006 Hz
			balance	250.4, 248.1 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2006 Hz
			balance	250.4, 248.1 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-43

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		31.999 vdc
Input Current	J1	J(+) and G(-)		0.736 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9960 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2028 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2028 Hz
			balance	247.5 , 245.4 μs
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2028 Hz
			balance	247.6 , 245.4 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2028 Hz
			balance	247.6 , 245.3 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2028 Hz
			balance	247.5 , 245.3 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

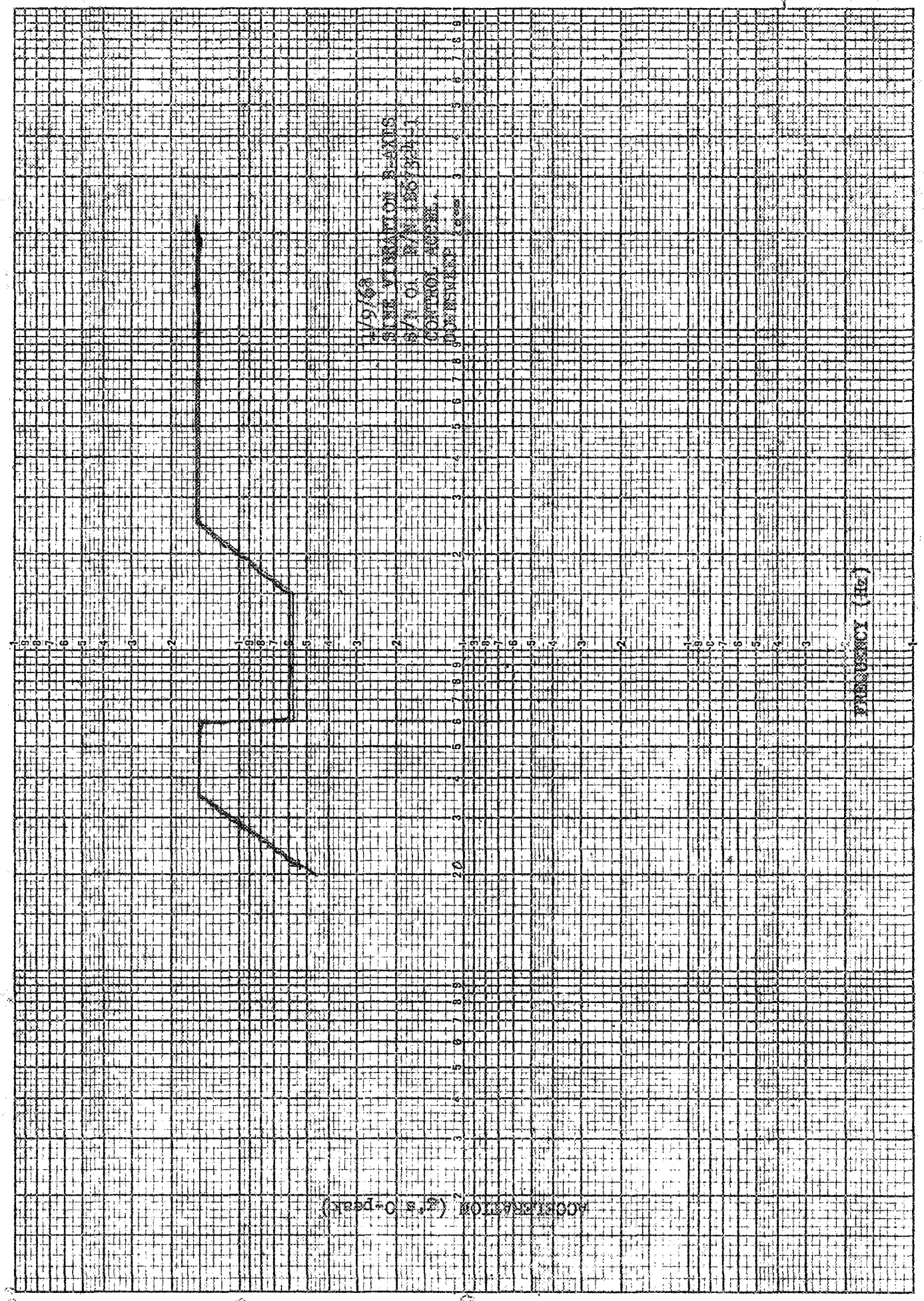
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DOV-4B

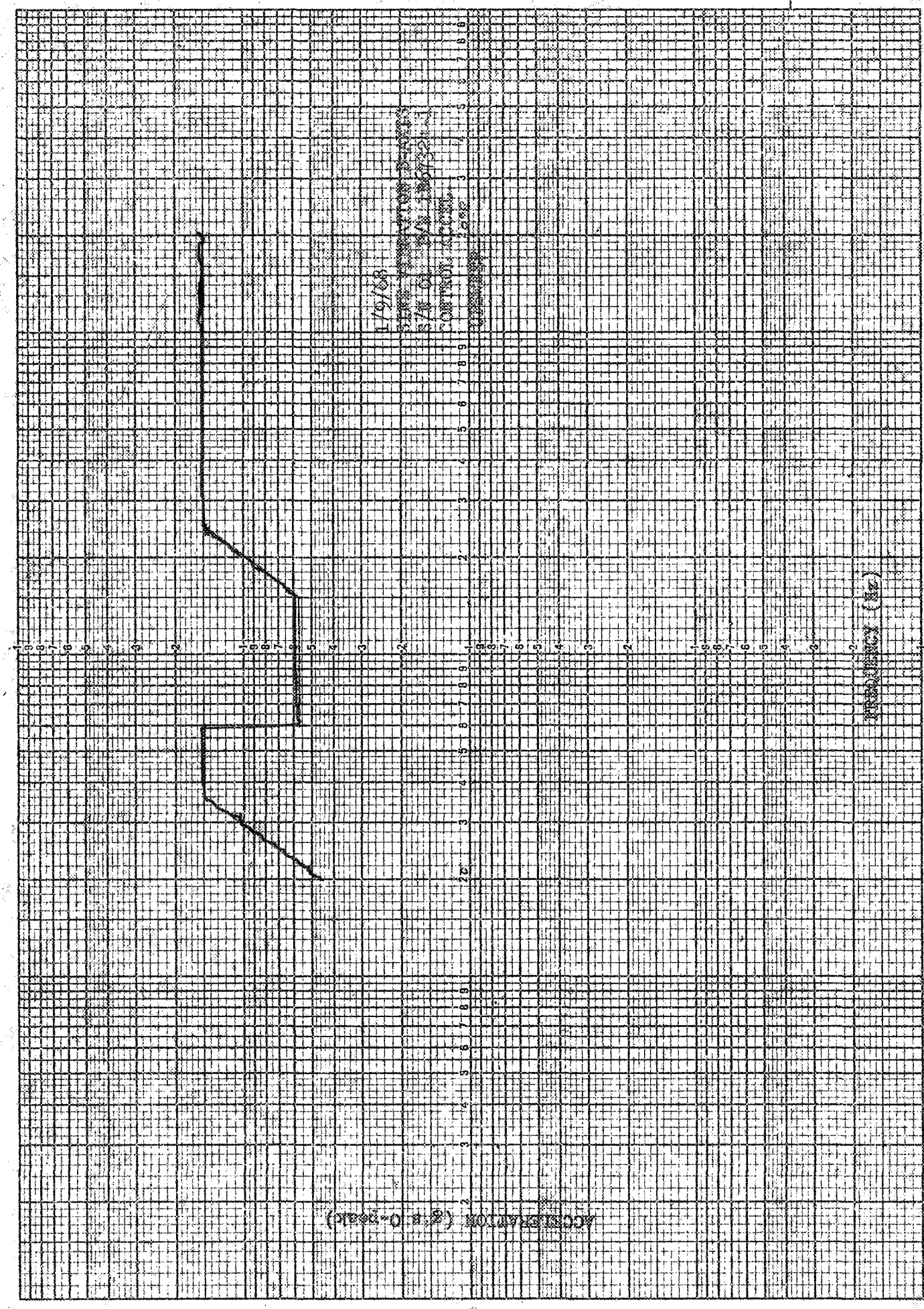
OBSERVER LABORATORY G&C ENGINEER J. Liagaki

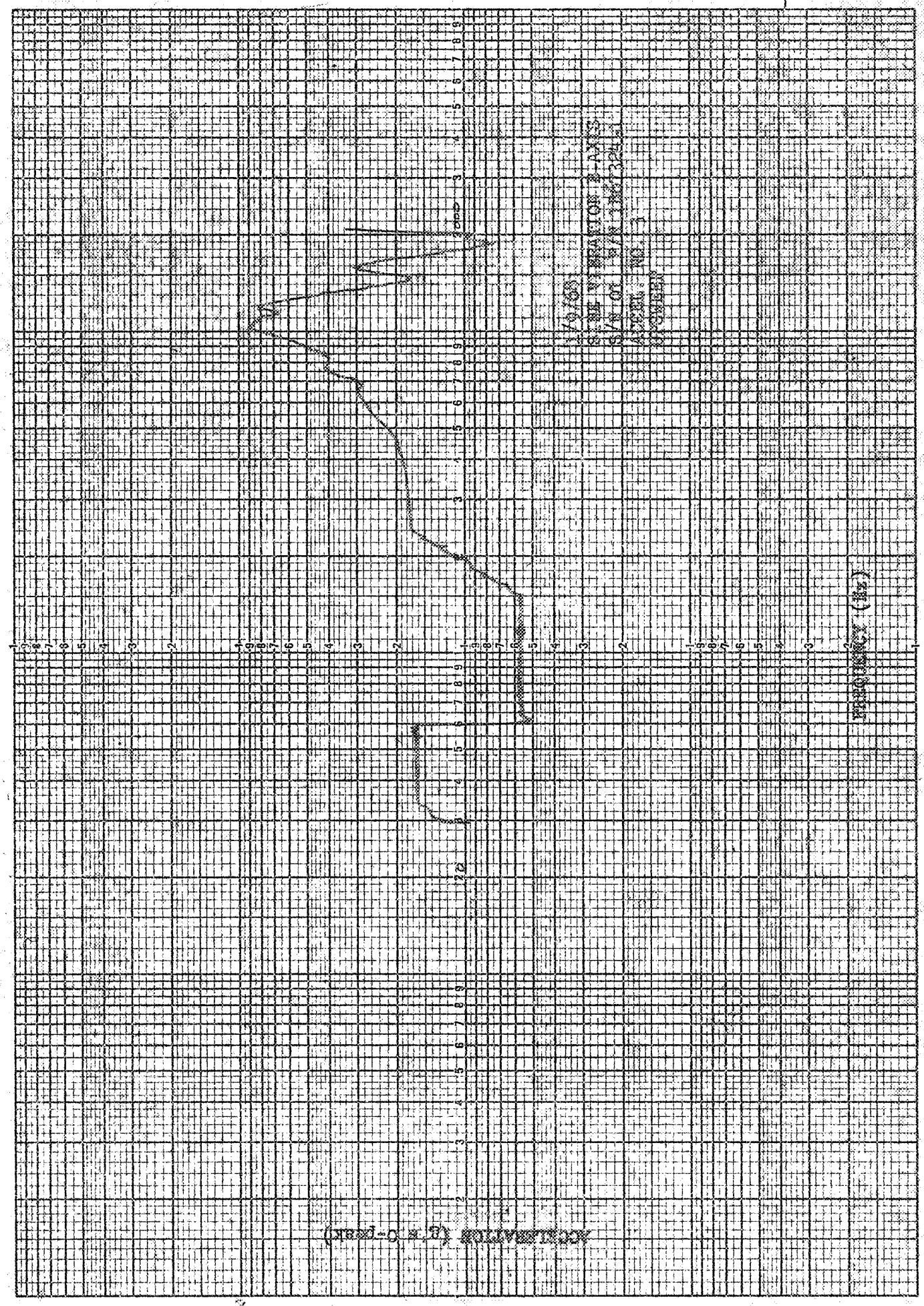
LOADED NOT LOADED ✓ 1620 HOURS

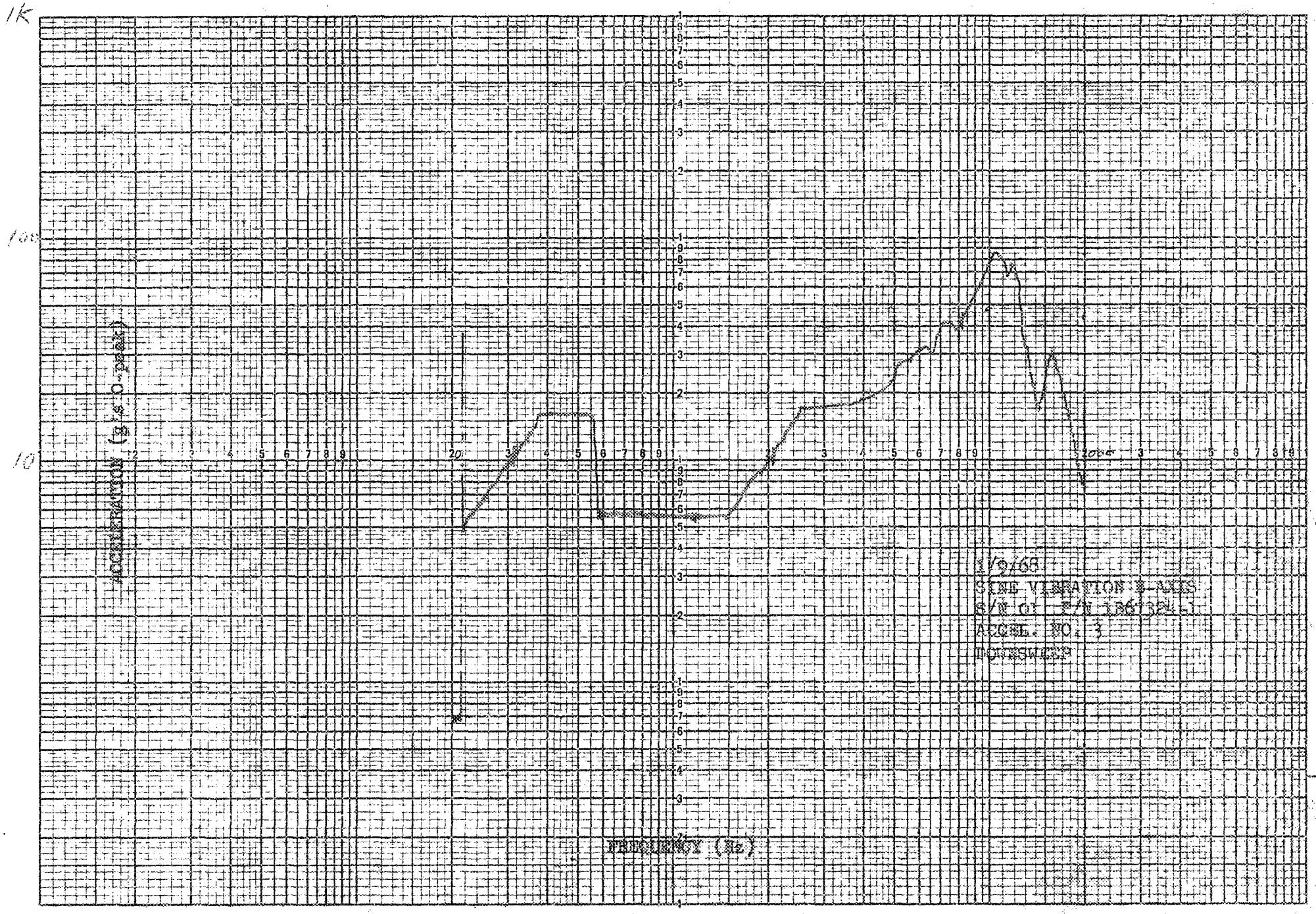
Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.001 vdc
Input Current	J1	J(+) and G(-)		0.680 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9958 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.996 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	~~1977~~ N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1977 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	254.0 , 251.8 μs
	J3	H and K	10 ± v p-p	9.8 v p-p
			frequency	~~1977~~ 1977 Hz
			balance	254.0 , 251.7 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1976 Hz
			balance	254.1 , 251.7 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	254.0 , 251.7 μs

COMMENTS:


1/9/68
SINE VIBRATION B-AXIS
S/N 01 P/N 1567324-1
CONTROL ACCEL.
DOWNSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)


1/9/68
PREQUENCY (Hz)
ACCELERATION (g's 0-peak)


SINE VIBRATION Z-AXIS
ACCEL. NO. 3
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)


1K
100
10
ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
1/9/68
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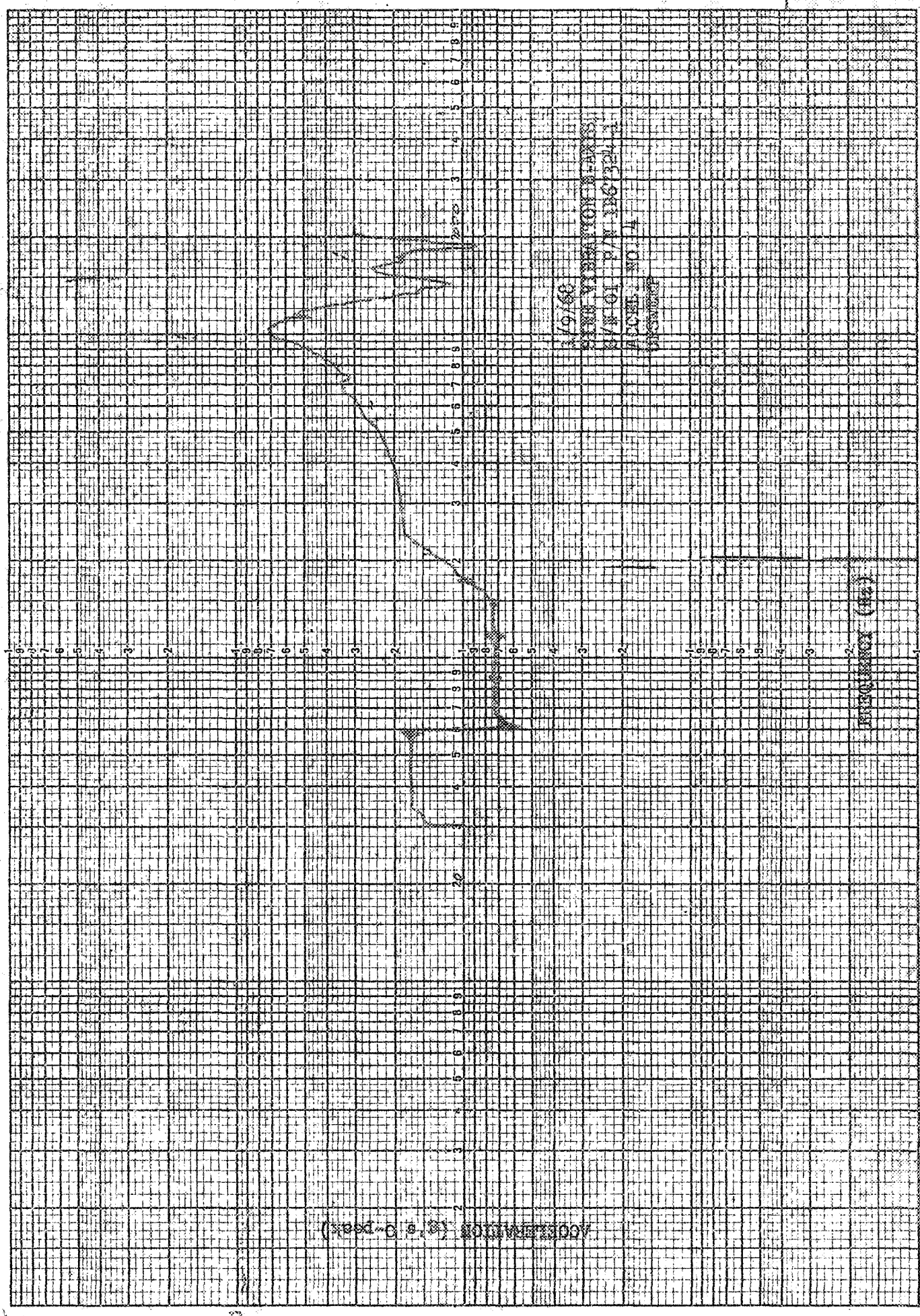
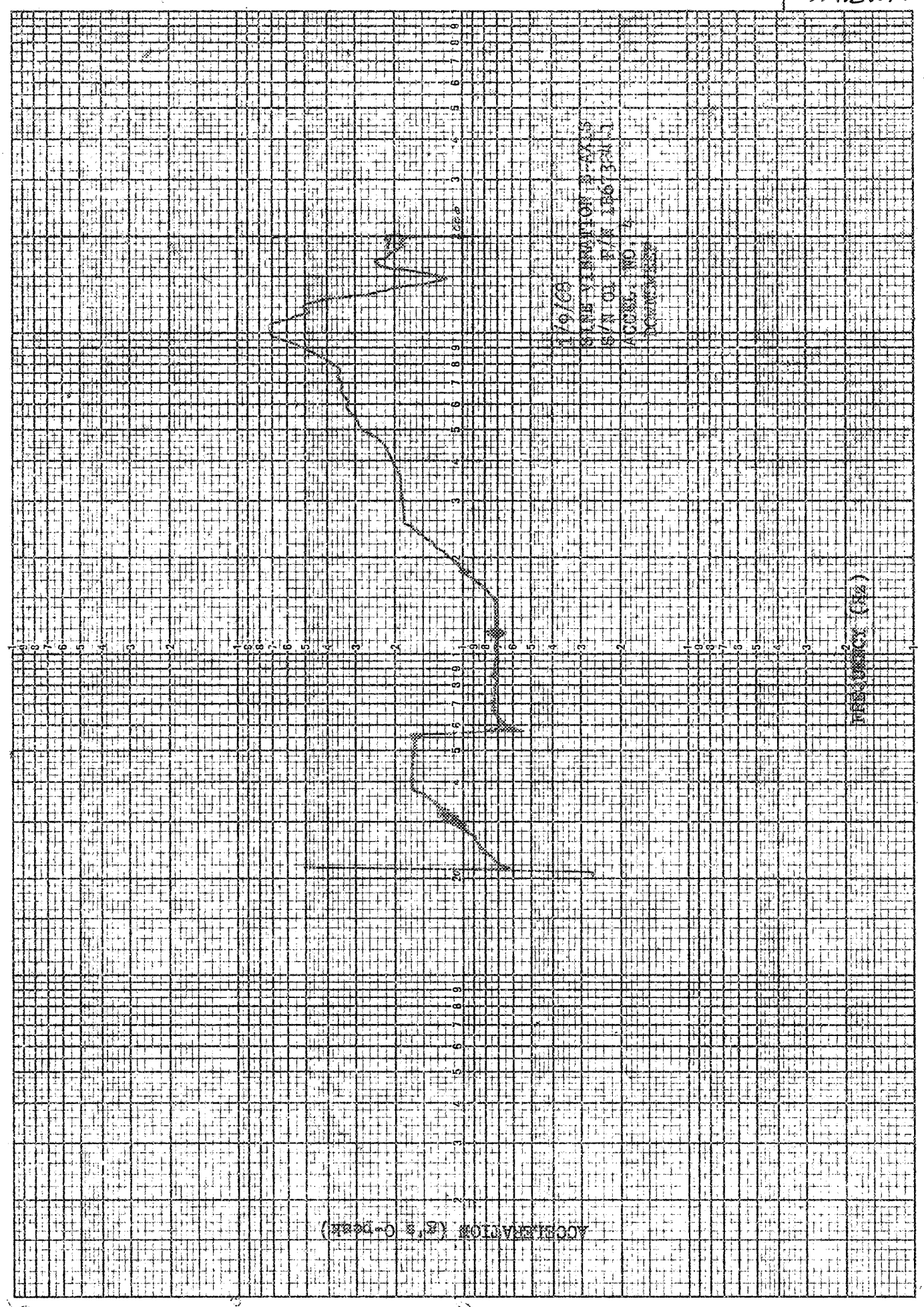
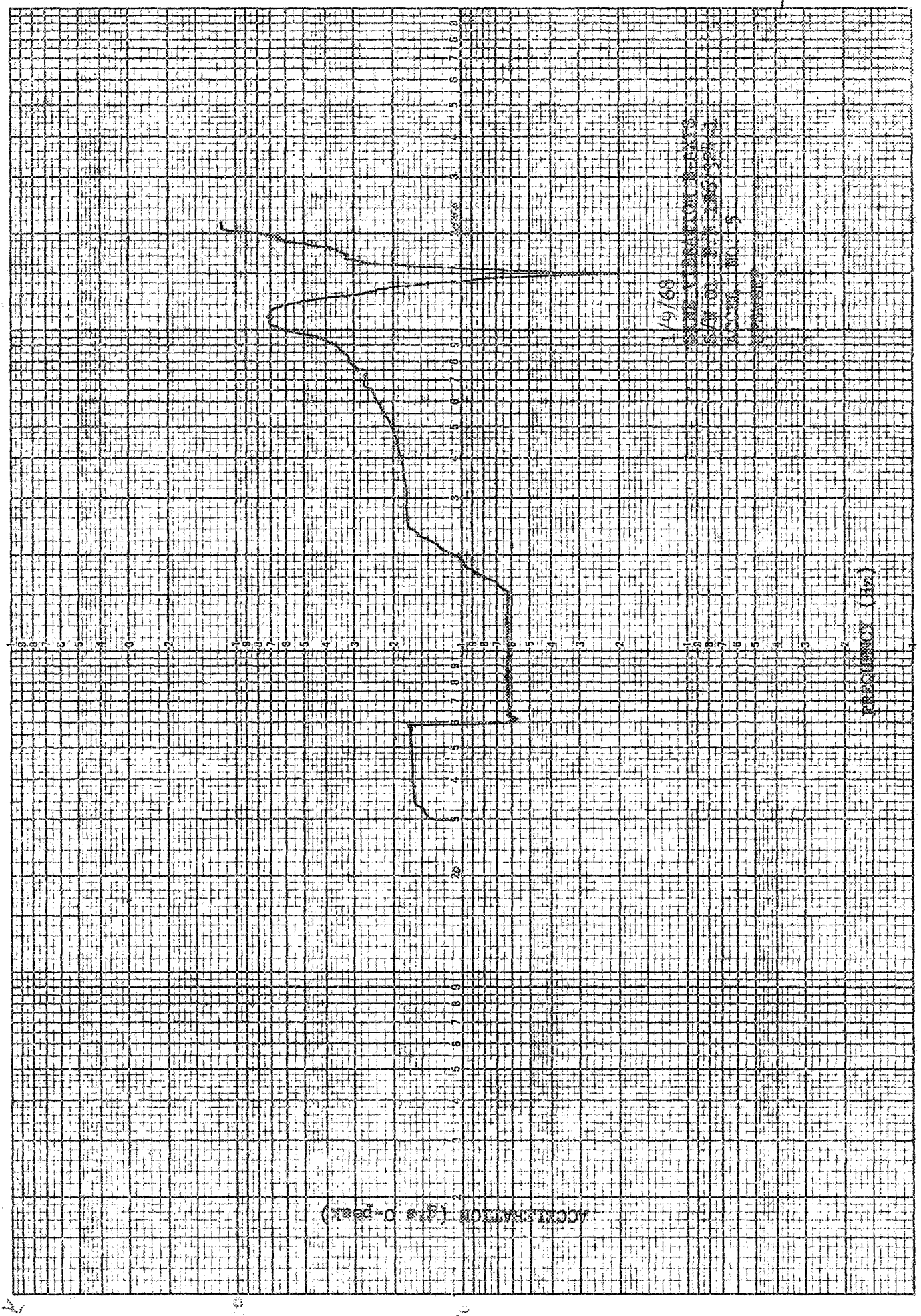
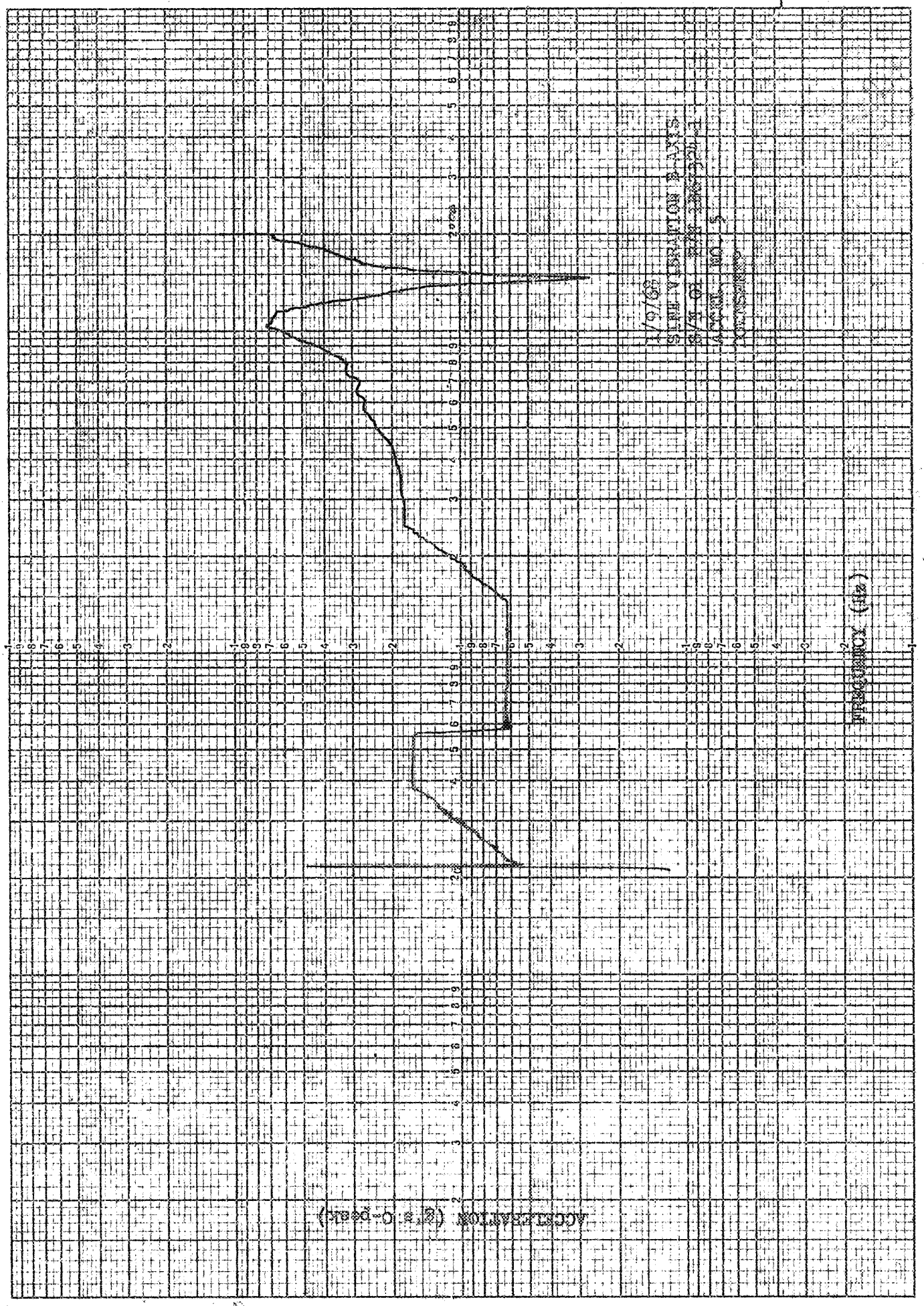
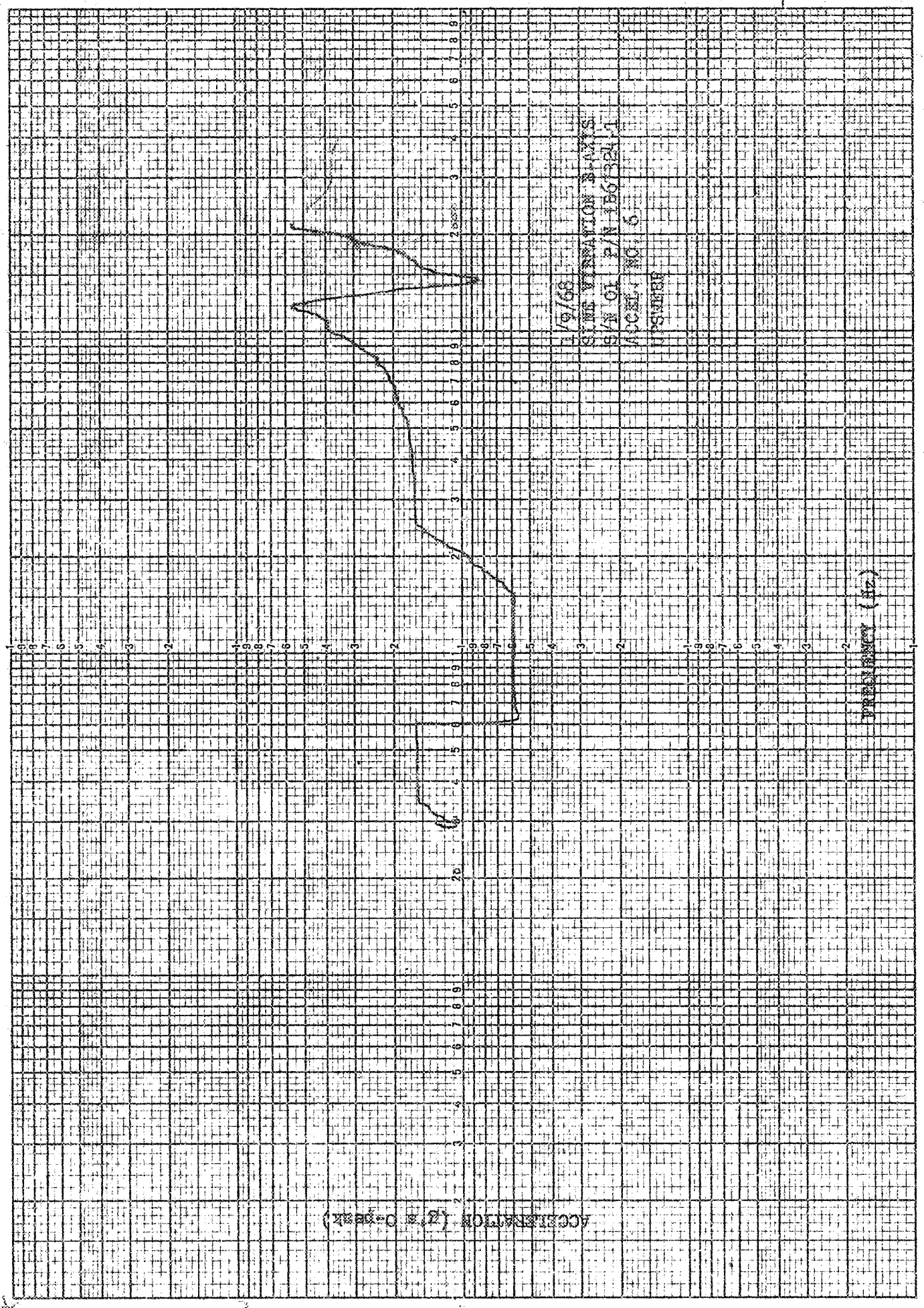
S/N 01 P/N 136032-1
ACCEL. NO. 3
DOTSSWEEP

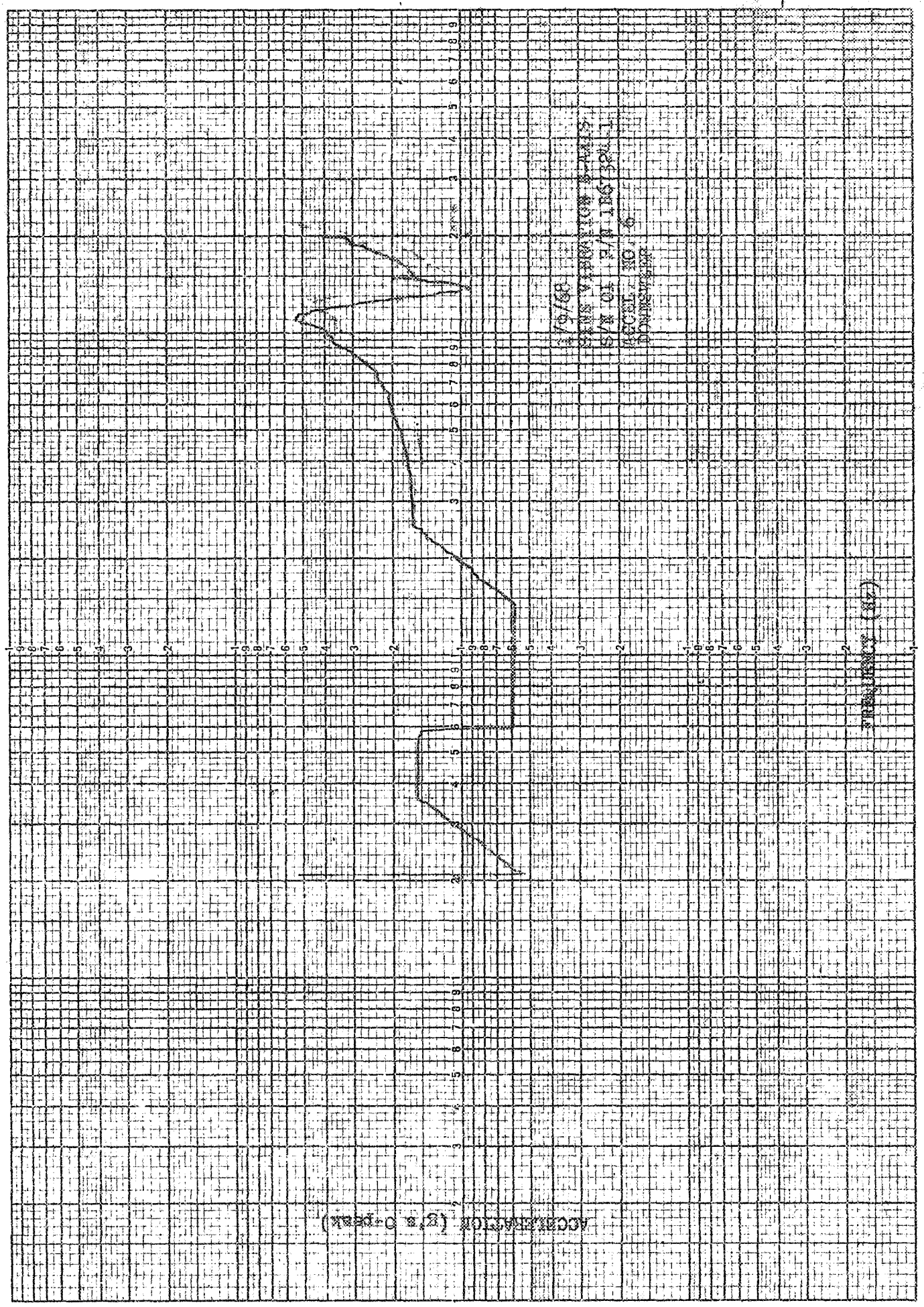

1/9/68
SINE VIBRATION BLADES
S/N 01 P/N 1B67324-1
ACCEL. NO. 4
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

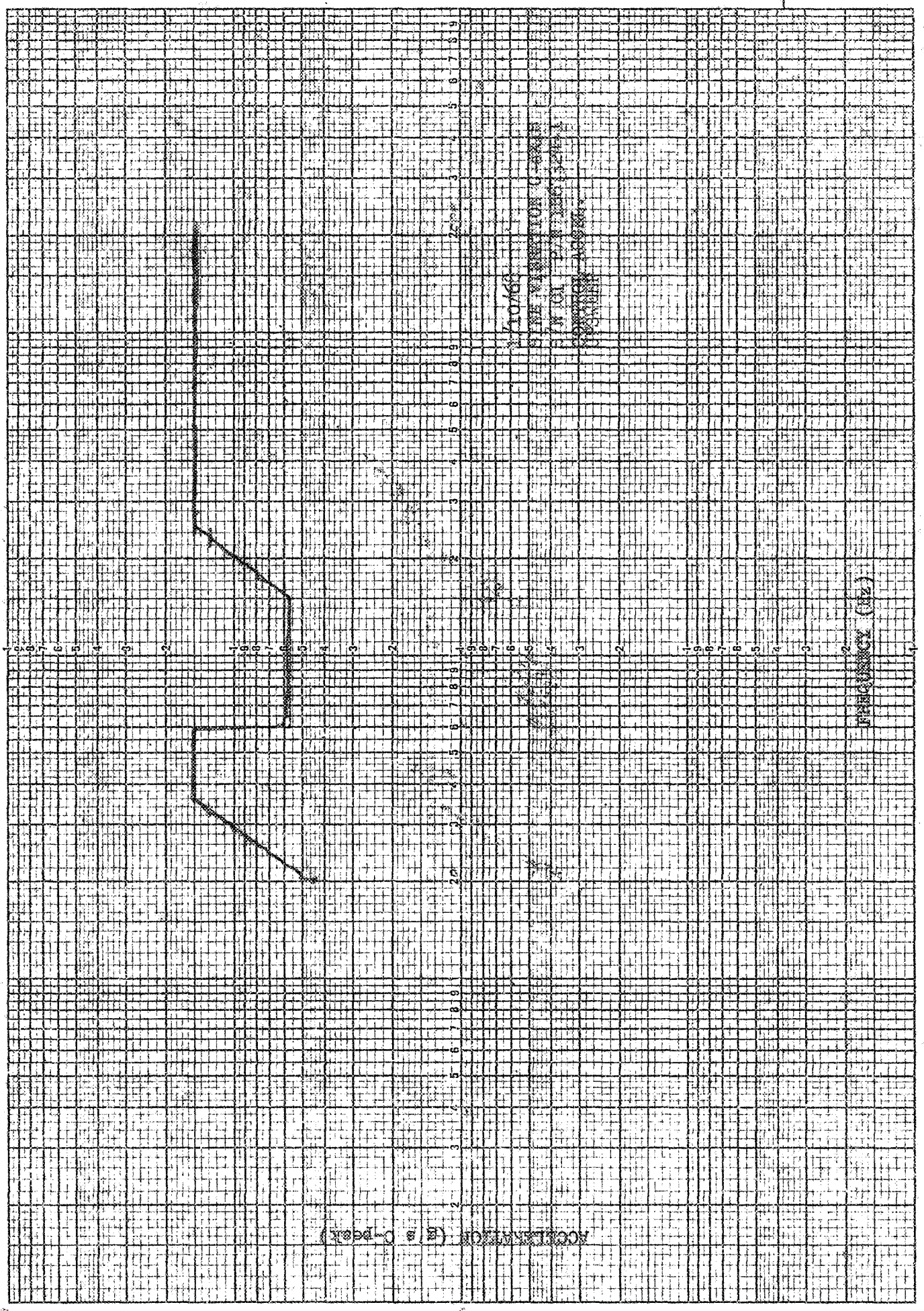

1/9/68
SINE VIBRATION
S/N 01 F/N 1B67384-1
ACCEL. NO. 4
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

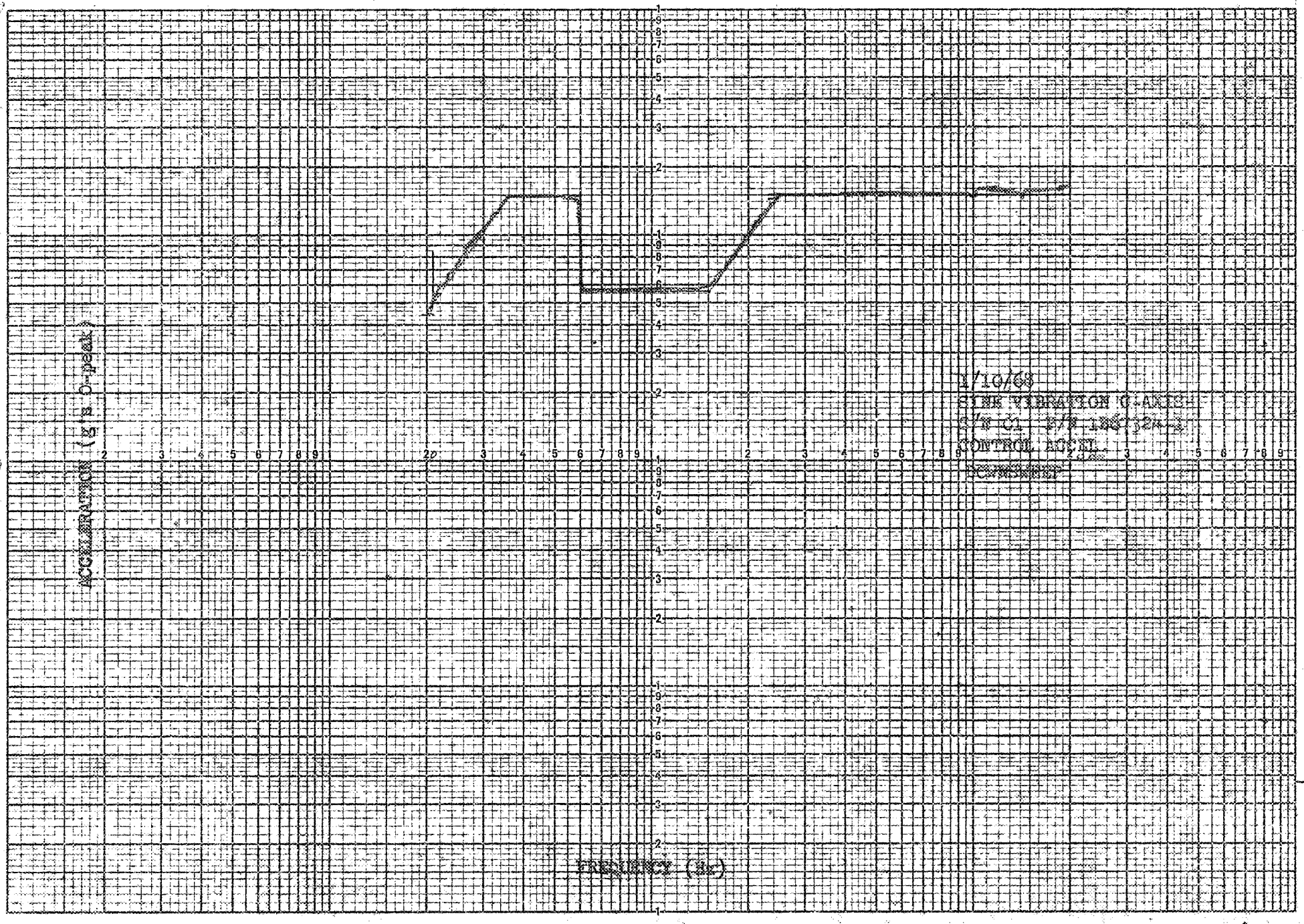

1/9/68
FREQUENCY (Hz)
ACCELERATION (G's 0-peak)

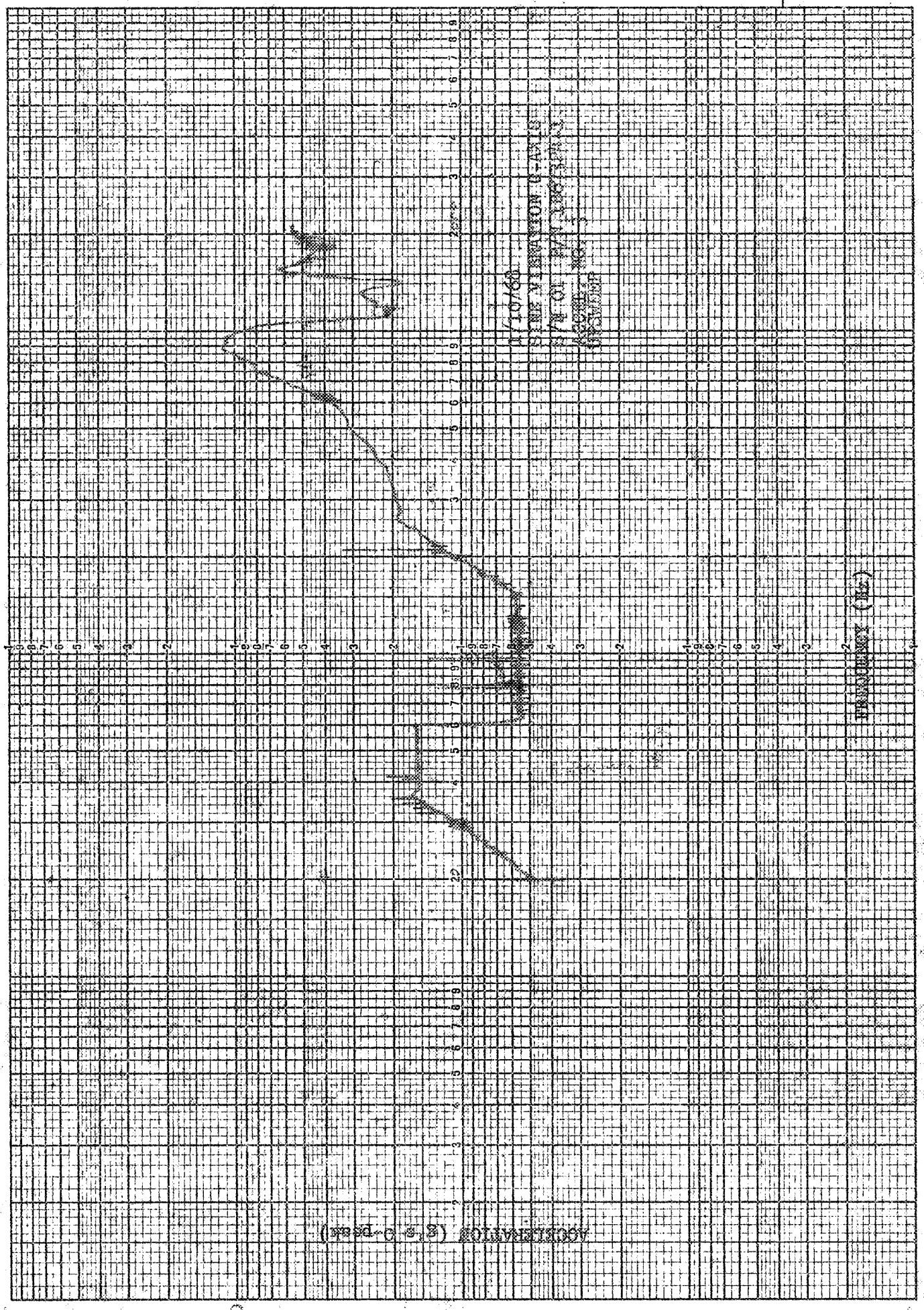

1/9/68
SINE VIBRATION B-AXIS
ACCEL. NO. 5
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

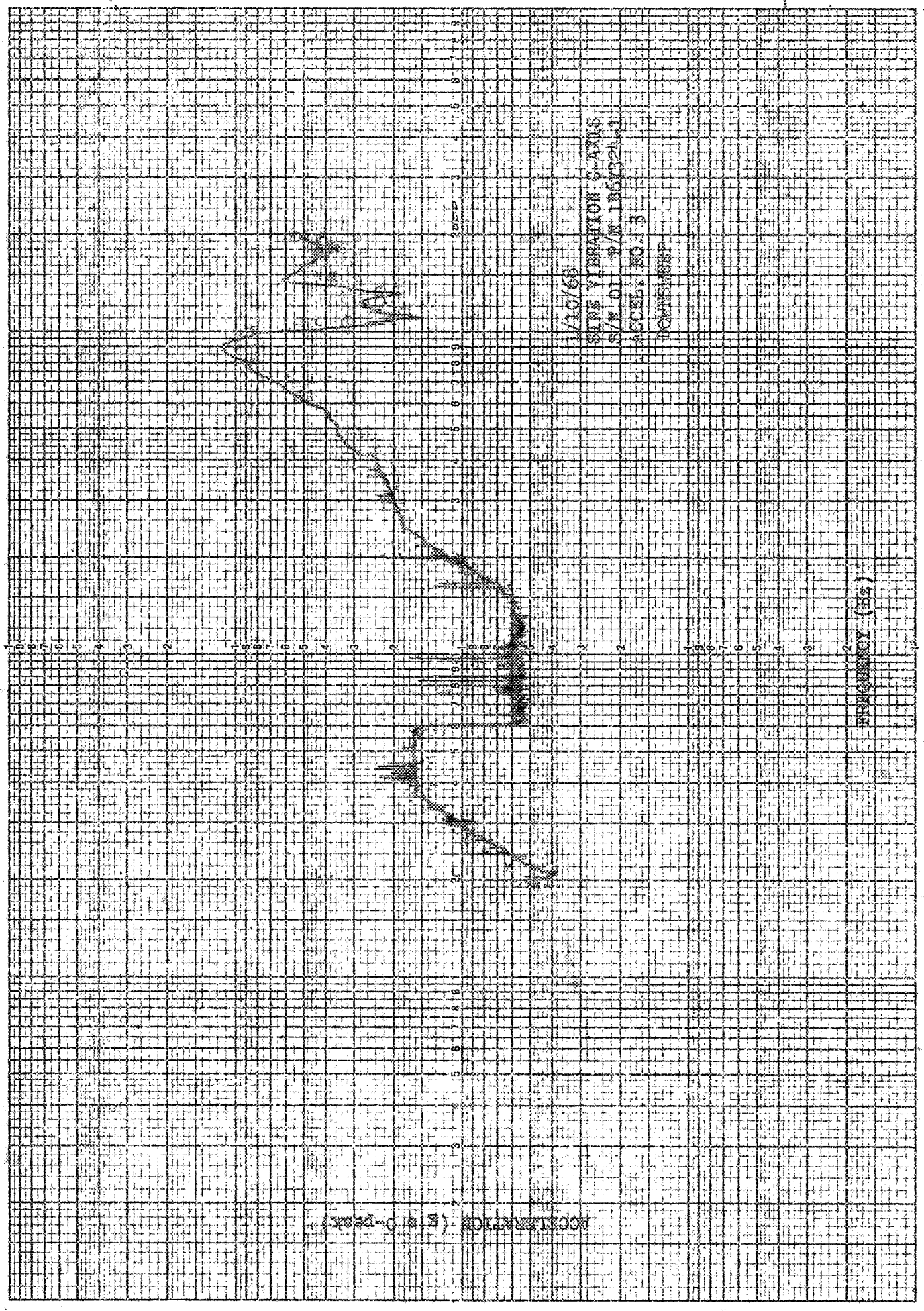

1/9/68
SINE VIBRATION B-AXIS
S/N 01 P/N 1B67324-1
ACCEL. NO. 6
UPSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

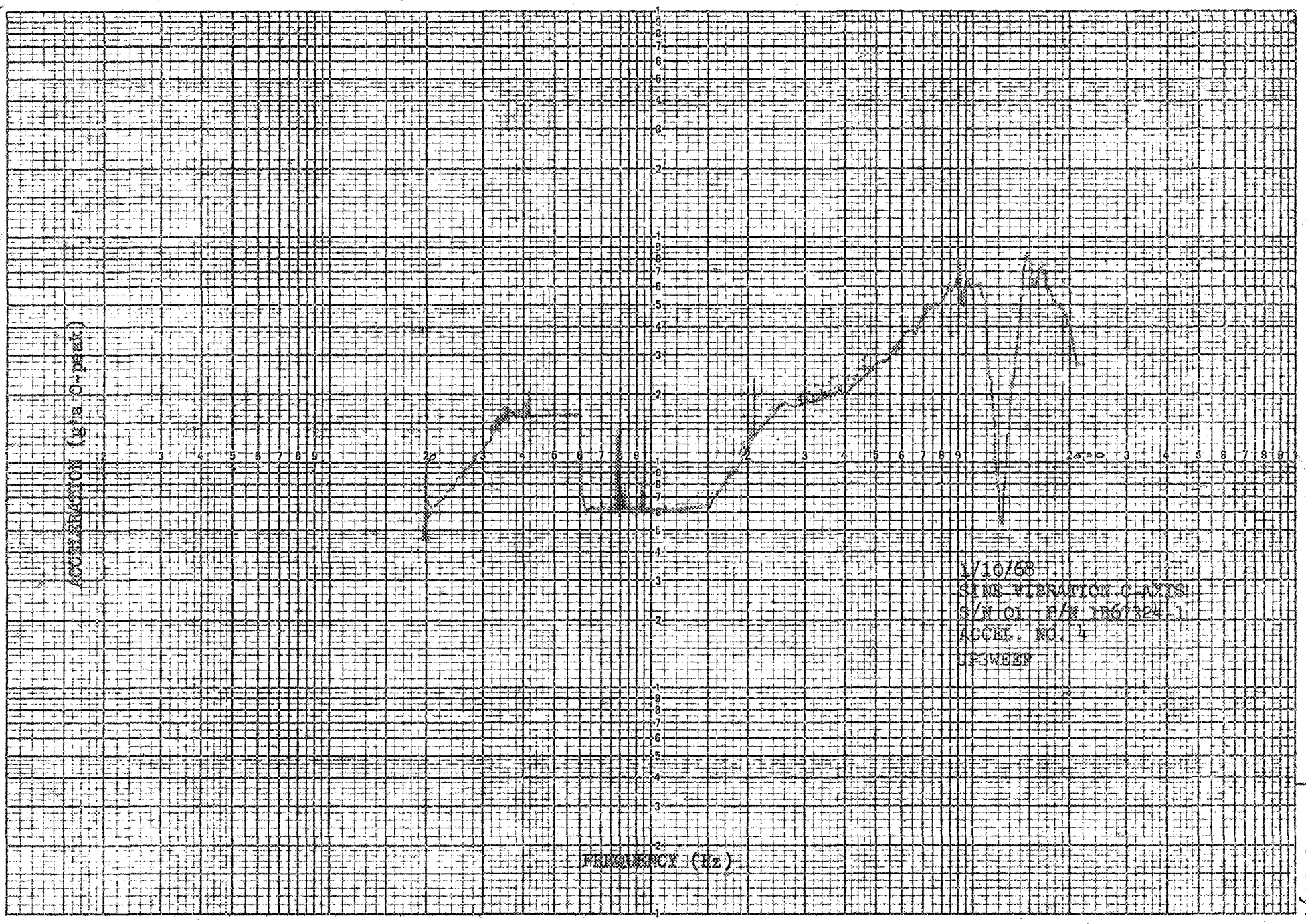

1/9/68
SINE VIBRATION B-AXIS
S/N 01 P/N 1B67324.1
ACCEL. NO. 6
DOWNSTREAM
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

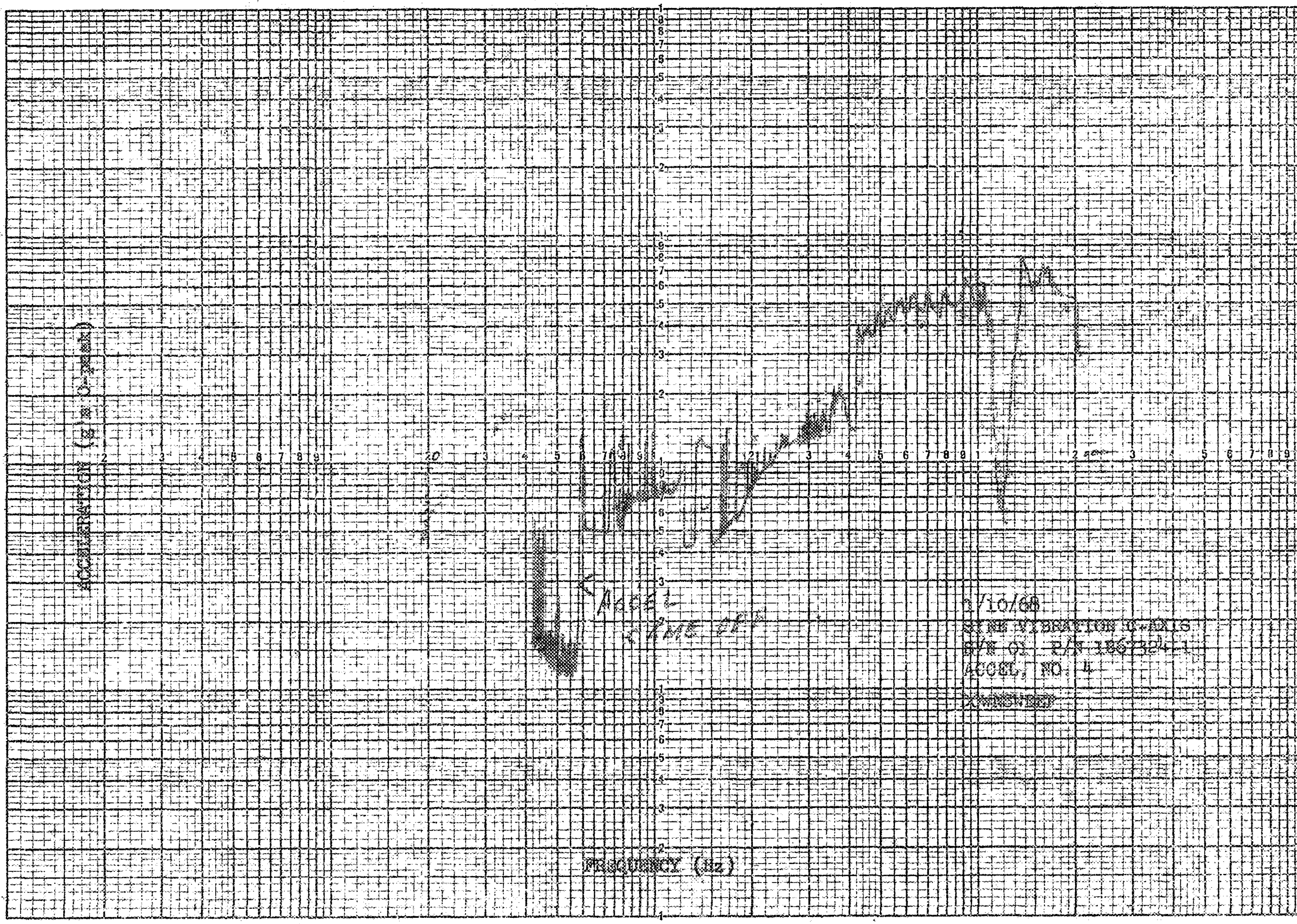

ACCELERATION (G's D-peak)
FREQUENCY (Hz)

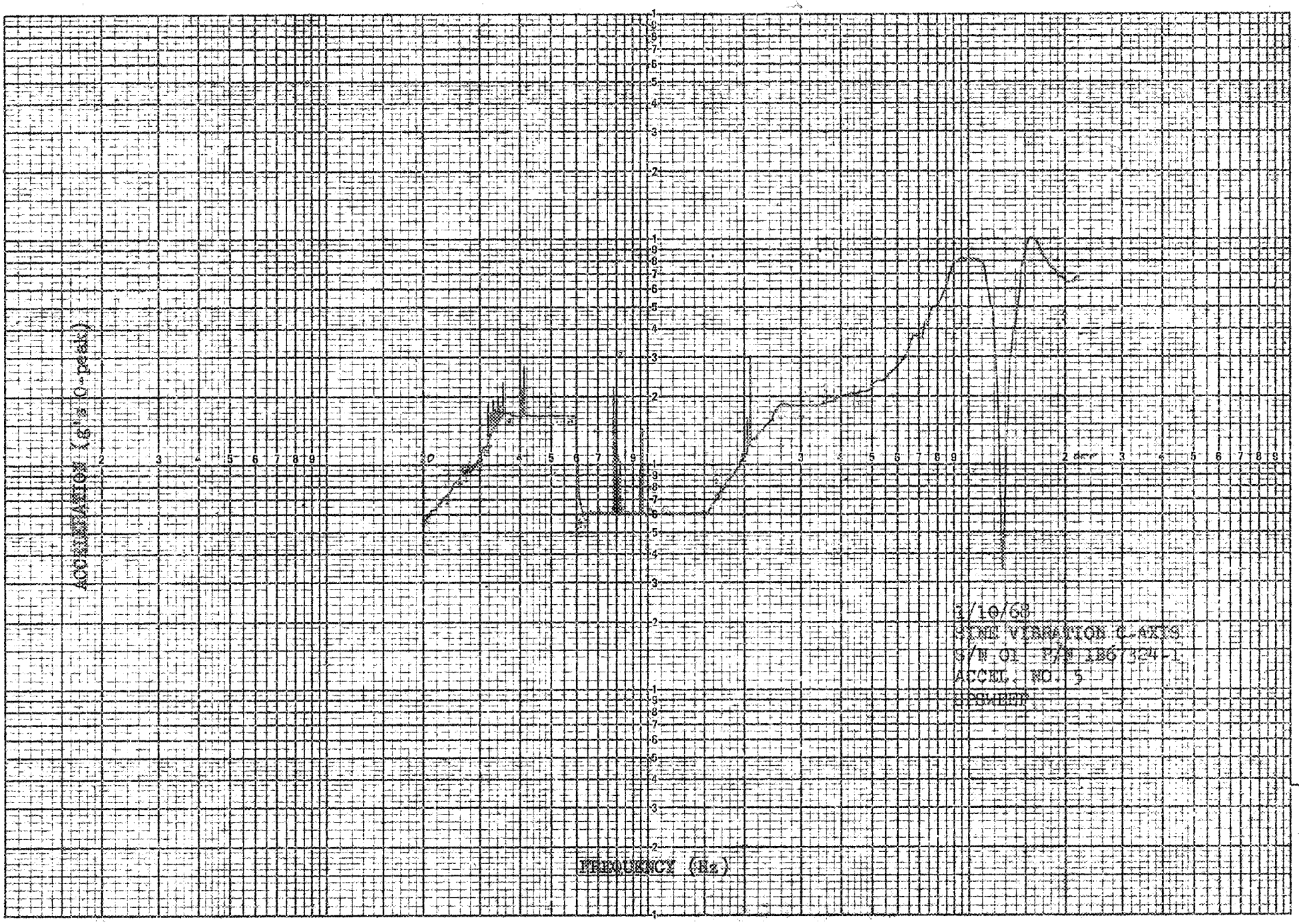

1/10/68
SINE VIBRATION G-AXIS
CONTROL ACCEL.
ACCELERATION (g's 0-peak)
FREQUENCY (Hz)

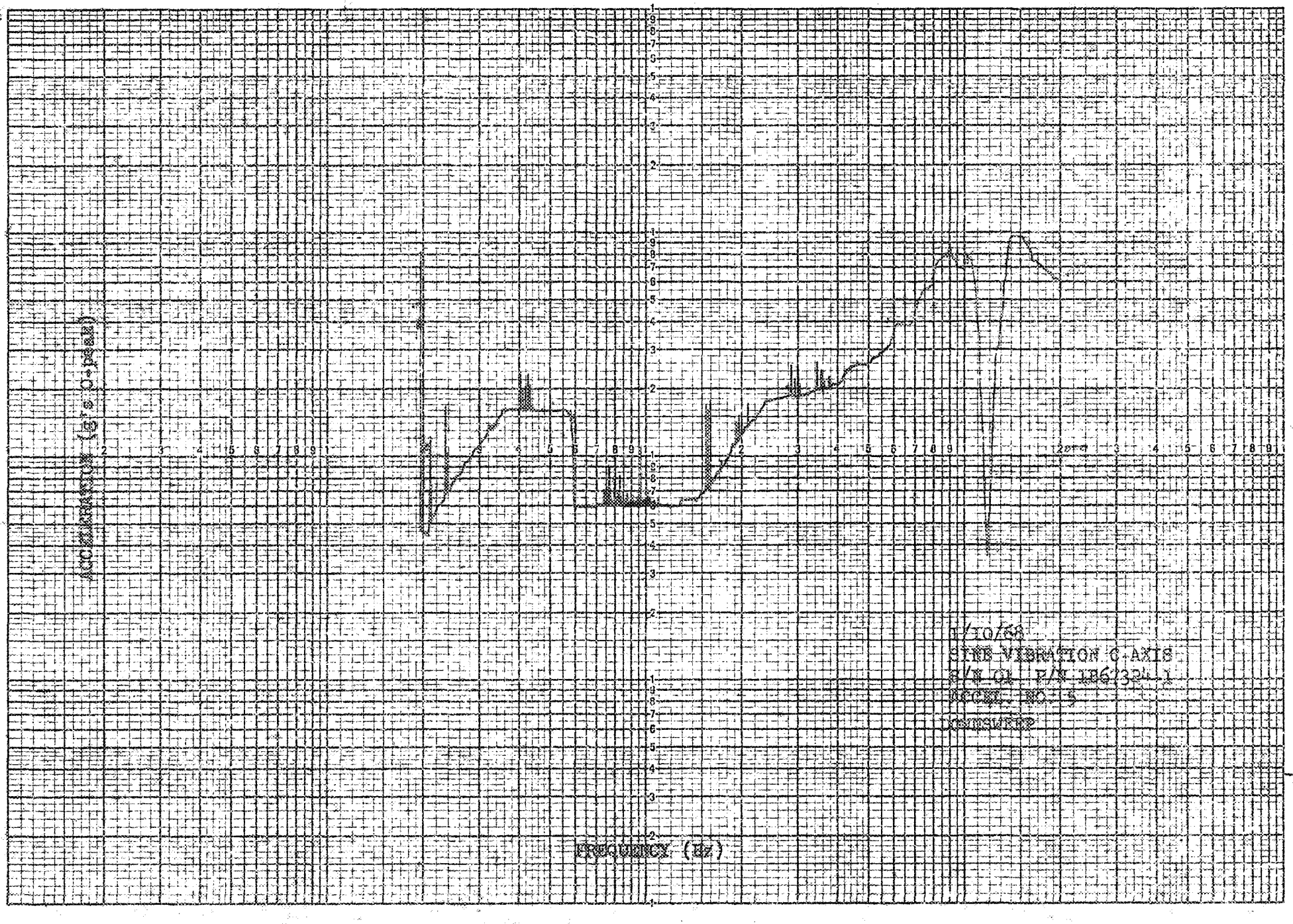

FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

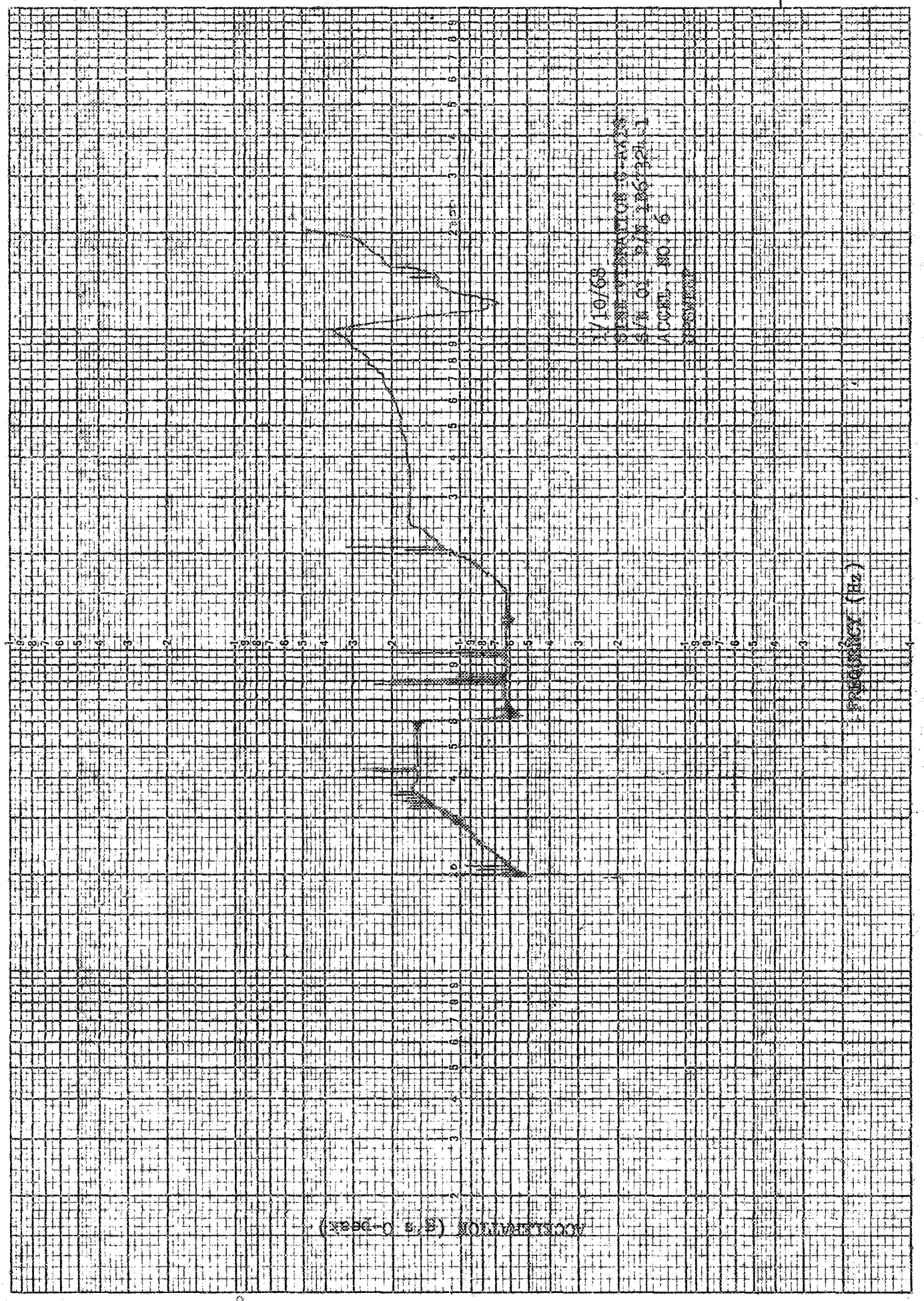

1/10/68
SINE VIBRATION C-AXIS
S/N 01 P/N 186C324-1
ACCEL. NO. 3
DOWNSHEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

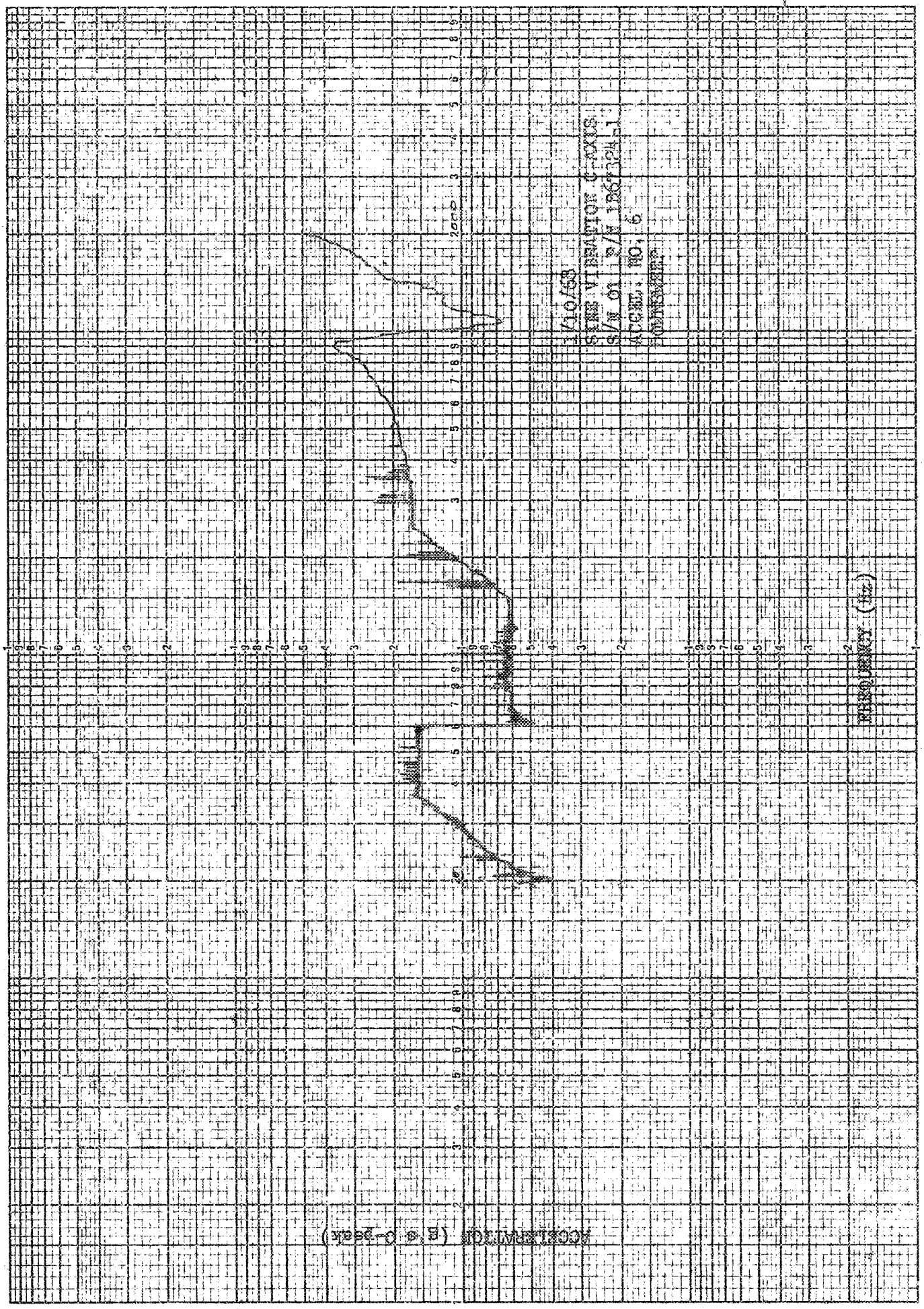

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
1/10/68
SINE VIBRATION C-AXIS
S/N 01 P/N 1867324-1
ACCEL. NO. 4
UPSWEEP

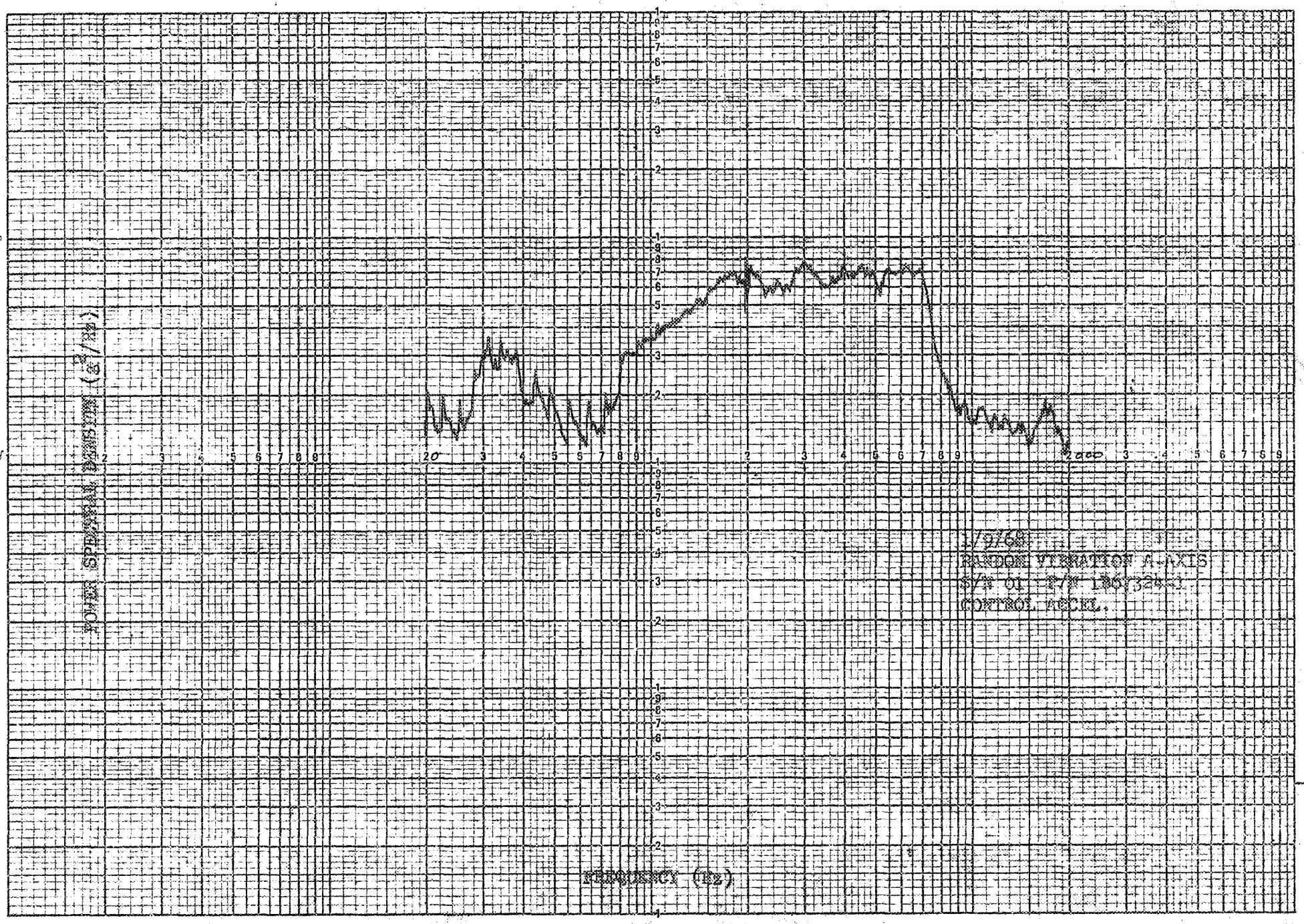

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
2/10/68
ACCEL, NO. 4
DOWNSWEEP

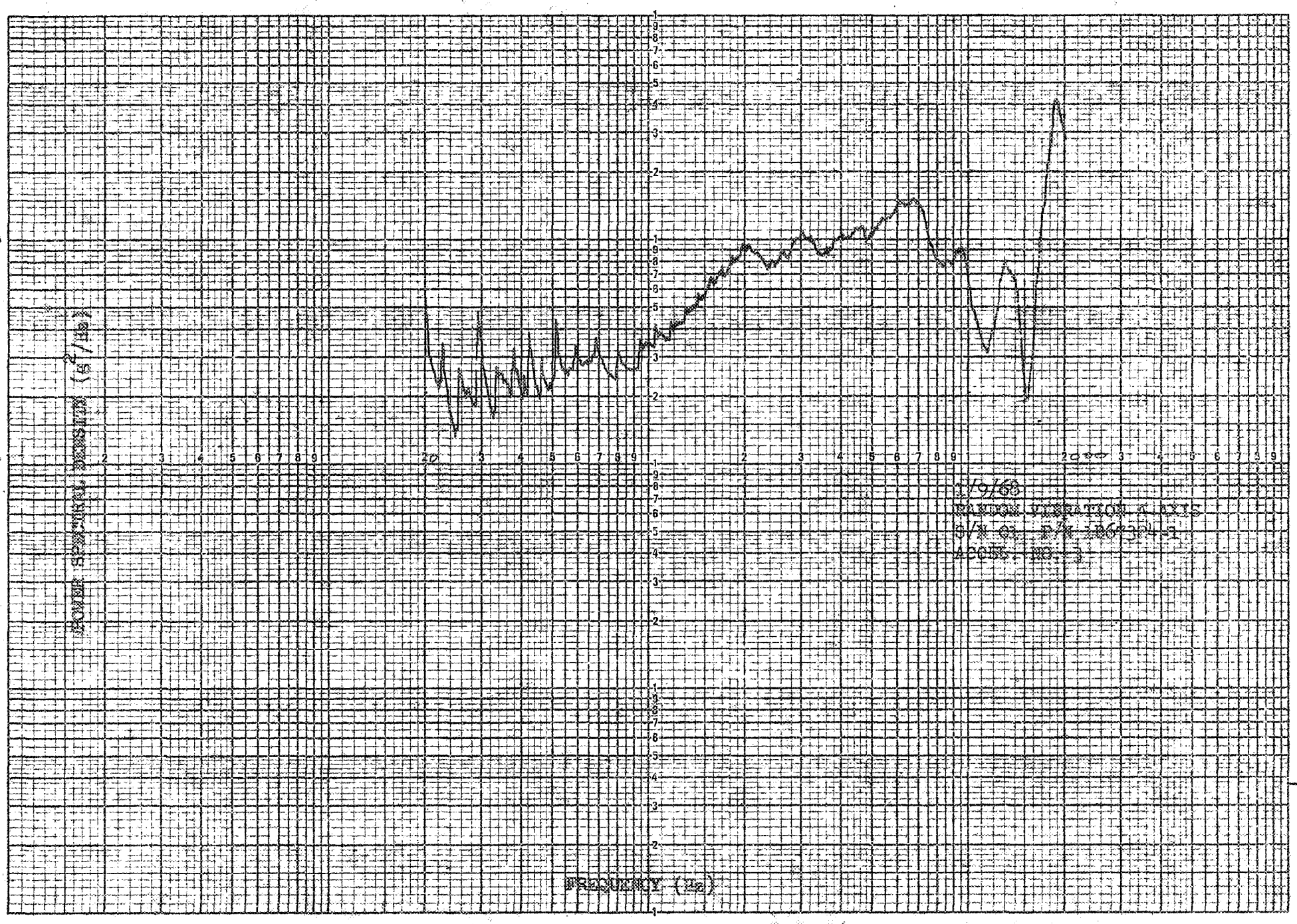

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
3/10/68
SINE VIBRATION C-AXIS
S/N 01 P/N 1867324-1
ACCEL. NO. 5
UPSWEEP


ACCELERATION (g's, 0-peak)
FREQUENCY (Hz)
1/10/68
SINE VIBRATION C-AXIS
S/N 101 P/N 1B673241-1
ACCEL. NO. 5
DOWNSWEEP

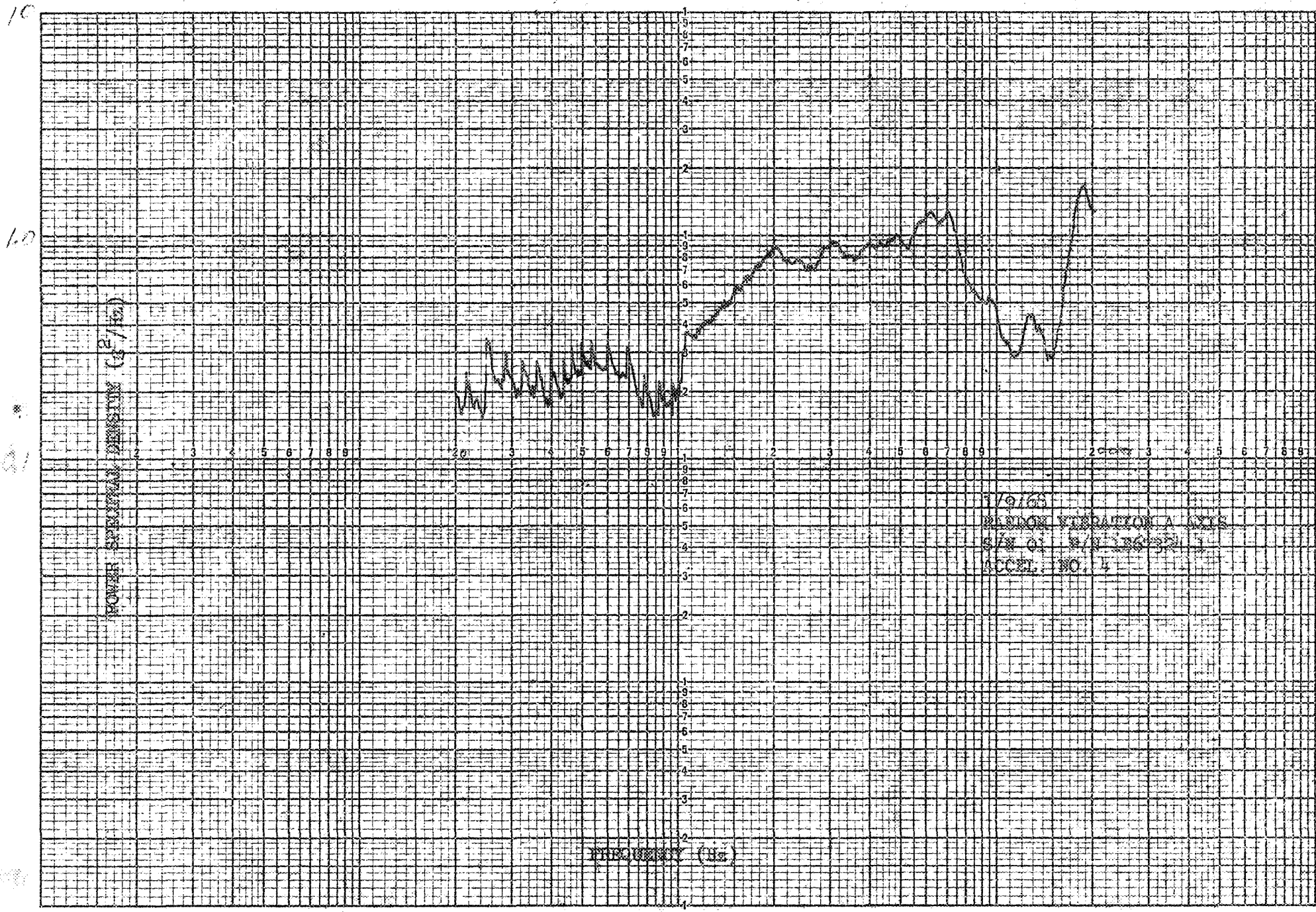

1/10/68
ACCEL. NO. 6
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)


1/10/63
SINE VIBRATION C-AXIS
S/N 01 P/N 1B67324-1
ACCEL. NO. 6
DOWNSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

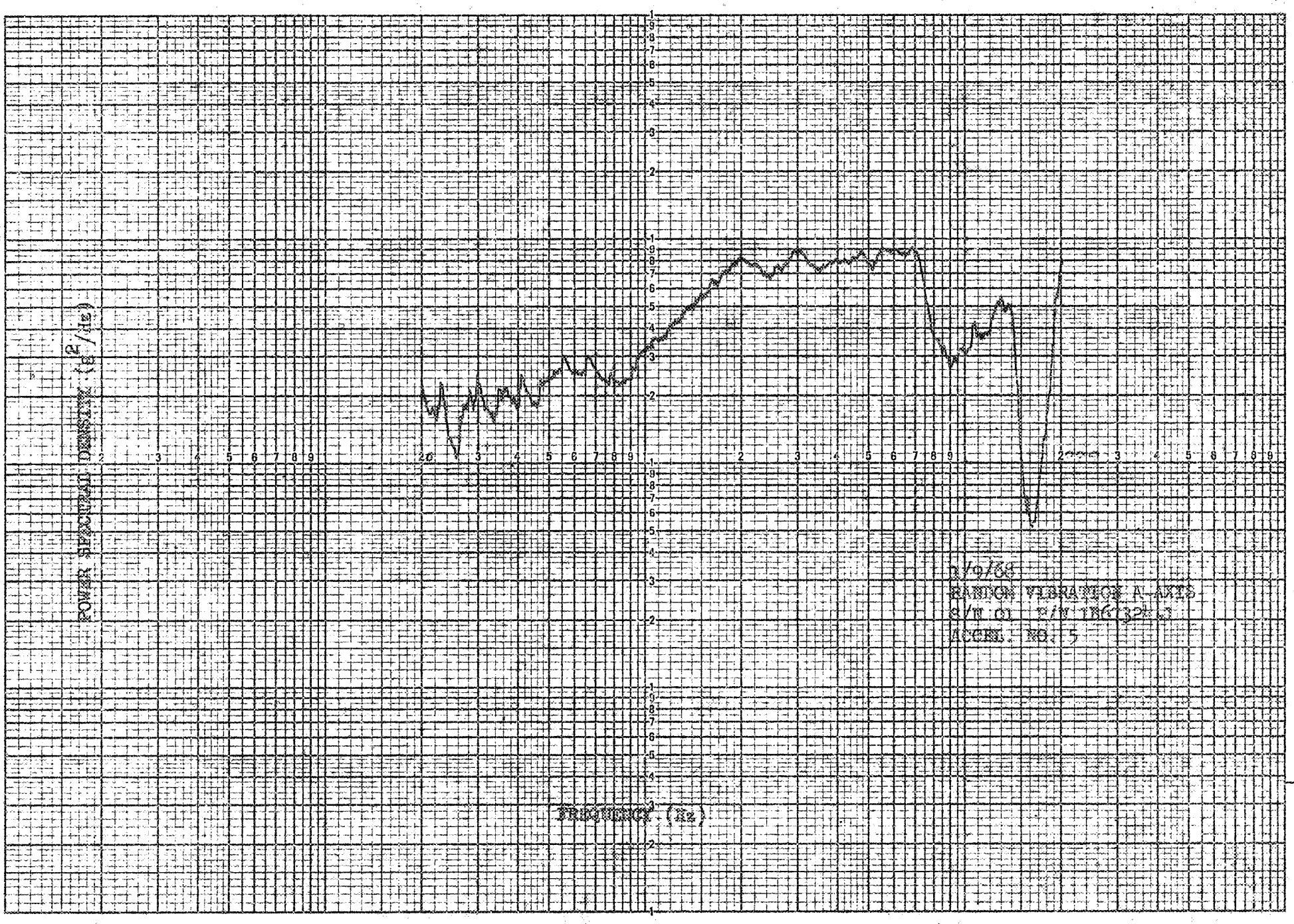

POWER SPECTRAL DENSITY (G²/Hz)
FREQUENCY (Hz)
20
200
1/9/68
RANDOM VIBRATION A-AXIS
S/N 01 P/N 1267324-1
CONTROL ACCEL.


POWER SPECTRAL DENSITY (g²/Hz)
FREQUENCY (Hz)
1/9/69
RANDOM VIBRATION A AXIS
S/N 01 P/N 186324-3
ACCEL. NO. 3

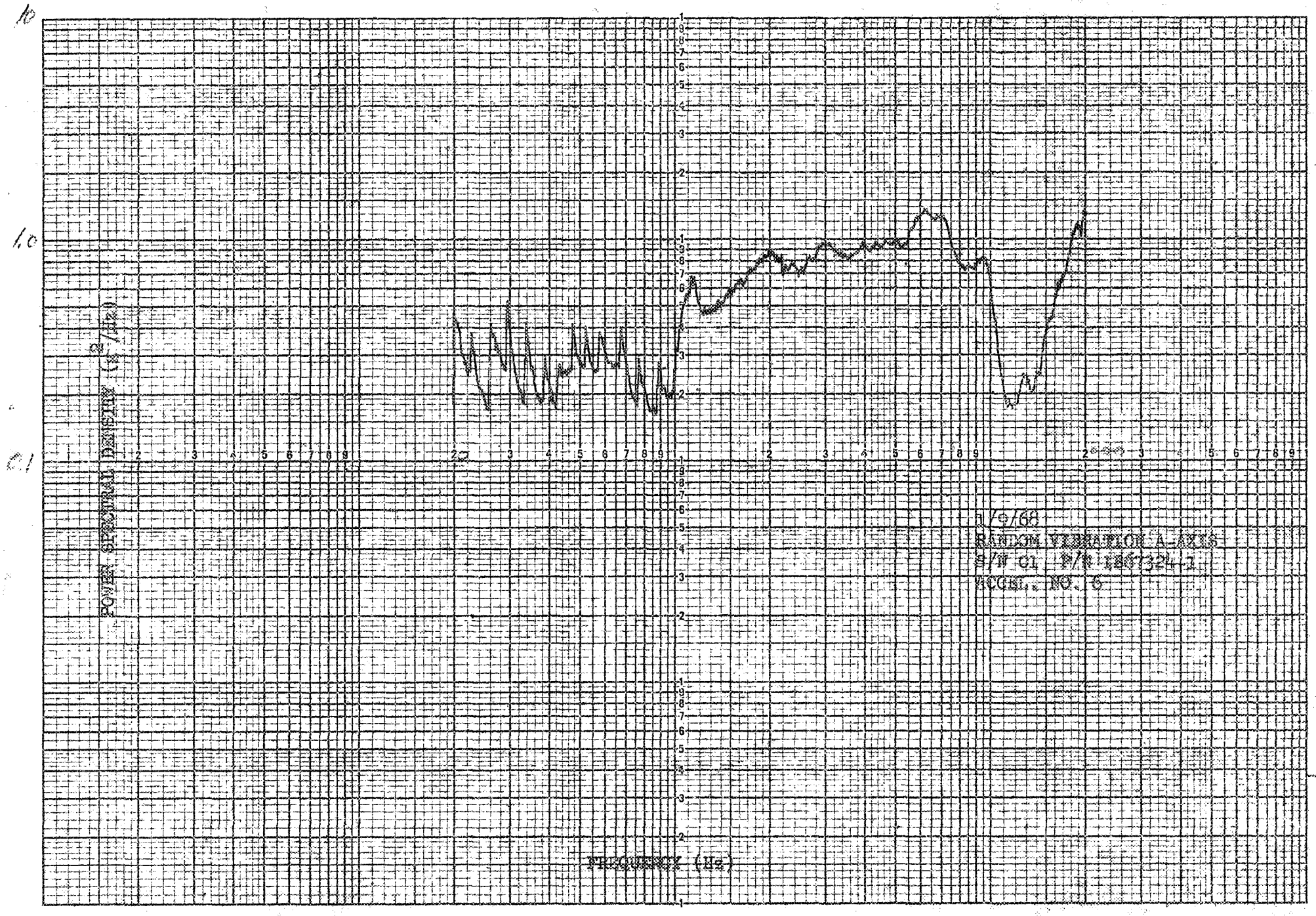
1/9/68 RANDOM A AXIS



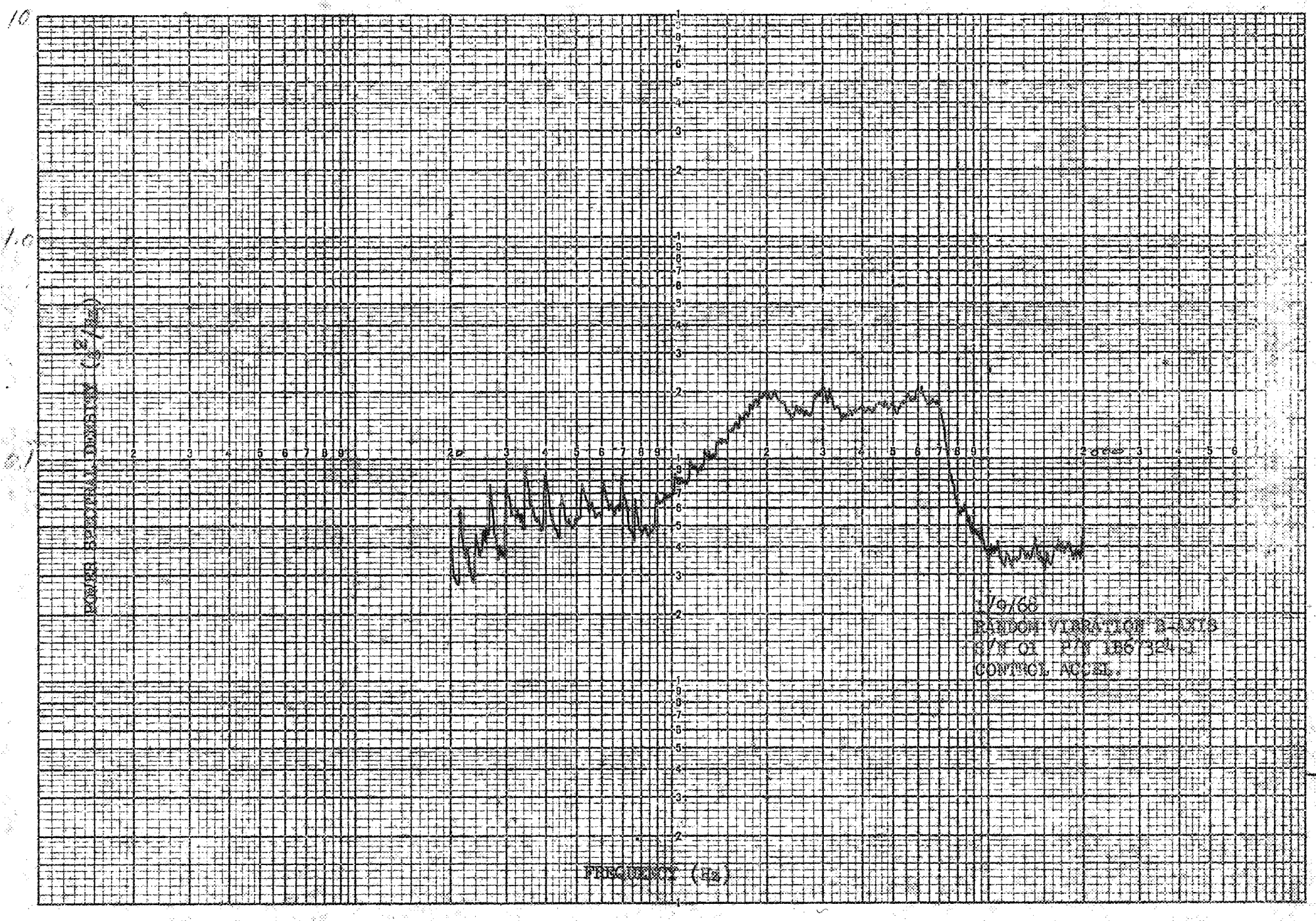
1/9/68 RANDOM A-AXIS



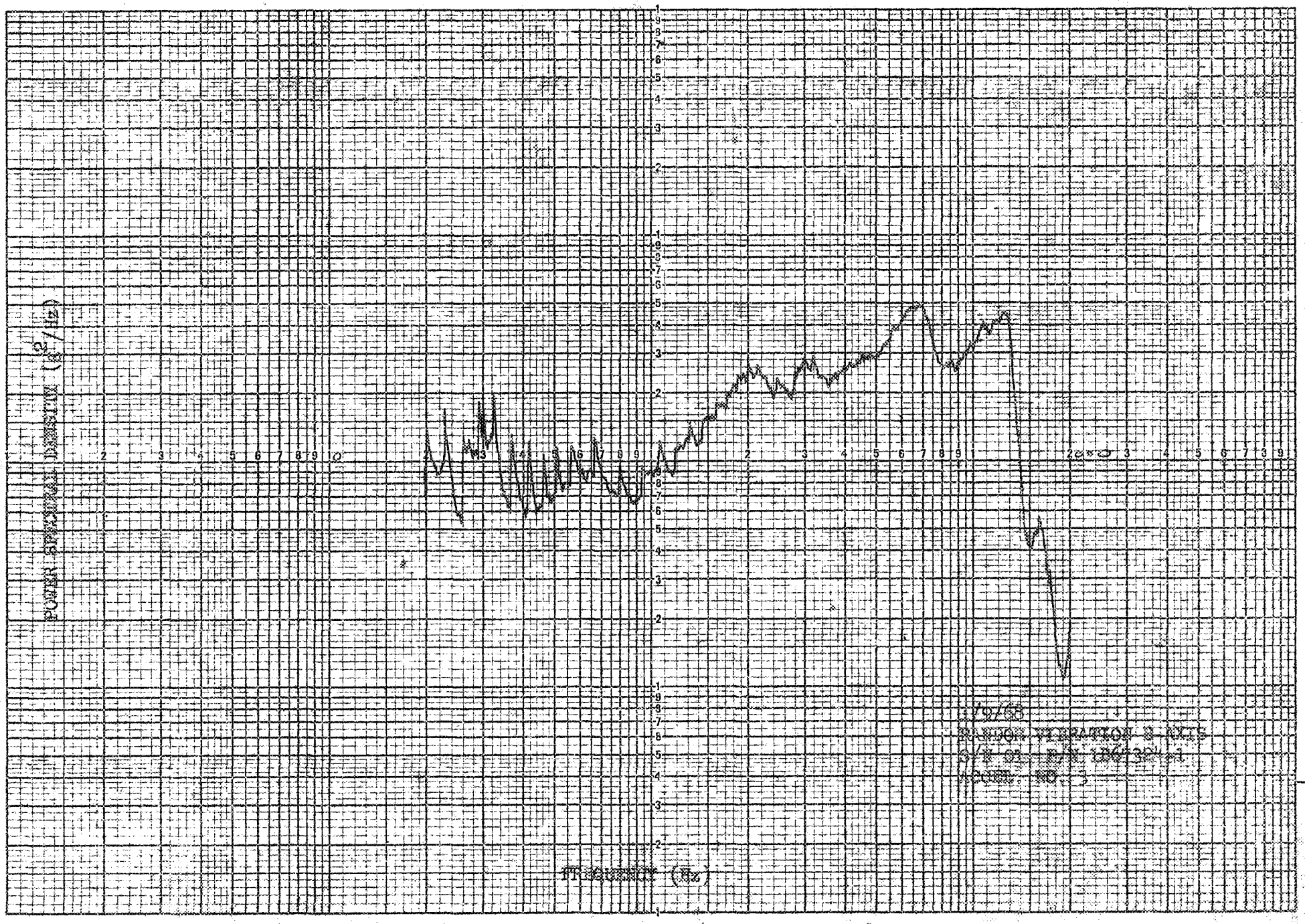
1/9/68 RANDOM A AXIS

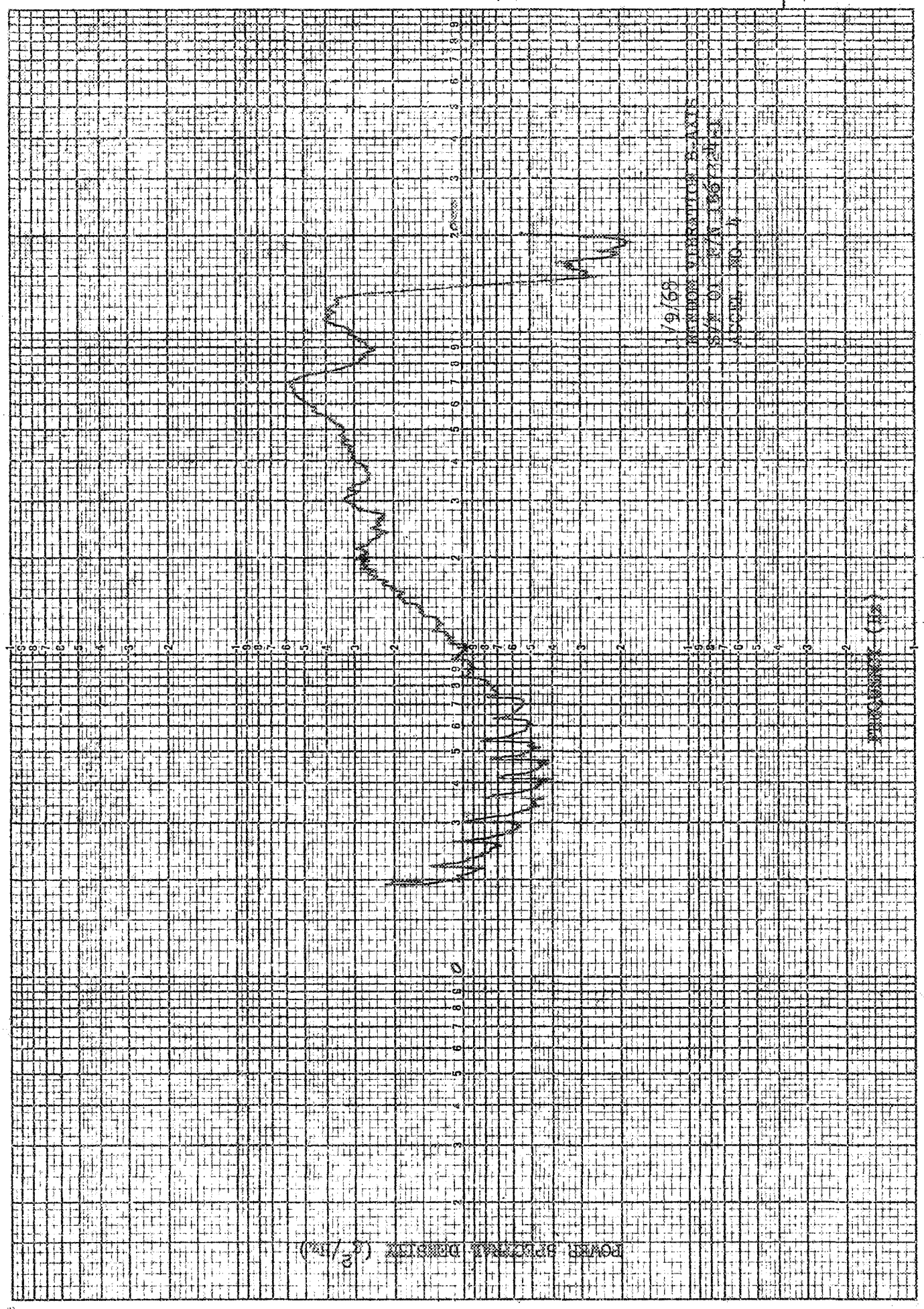


1/8/68 RANDOM B AXIS

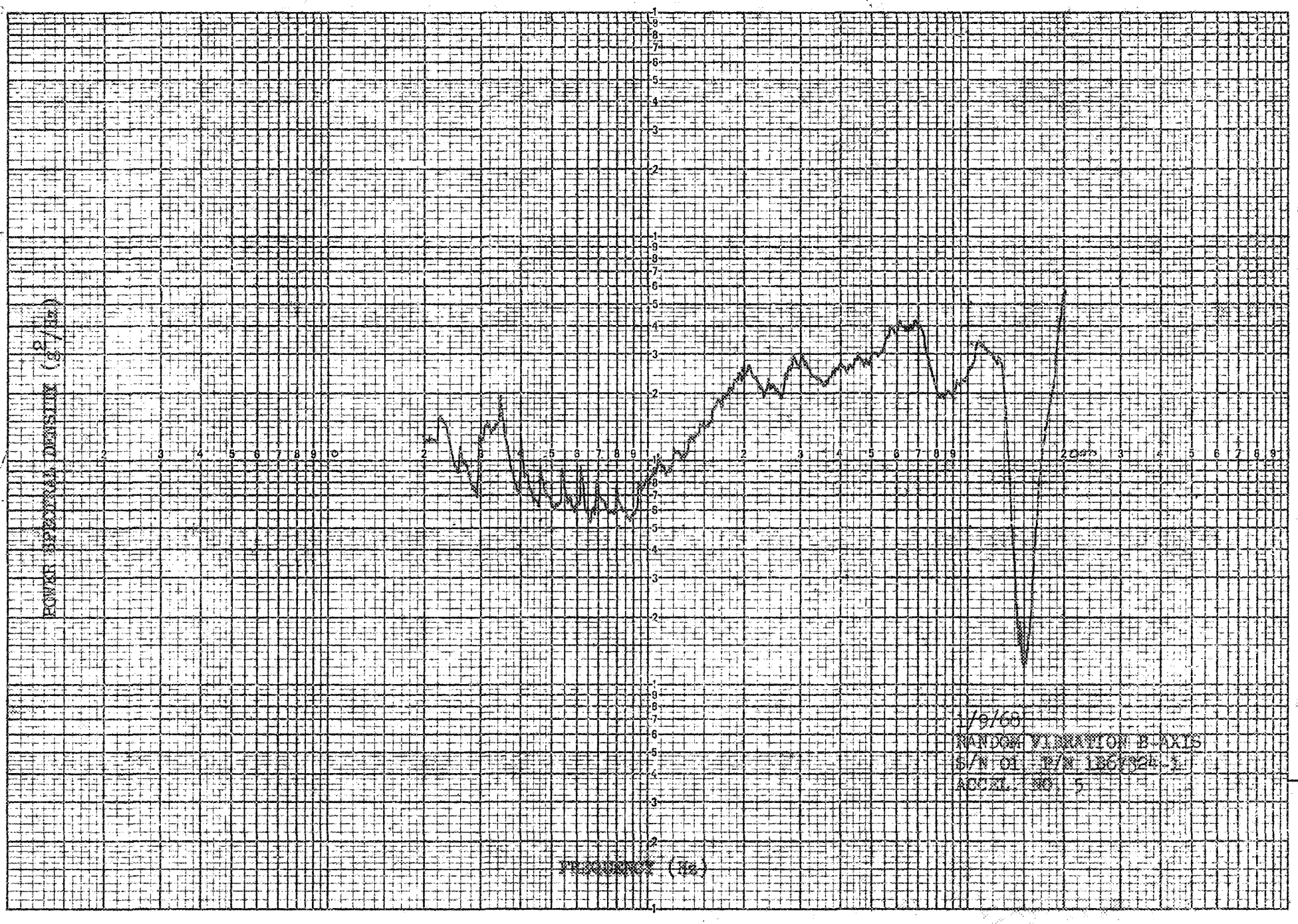


1/9/68 RANDOM B ASS

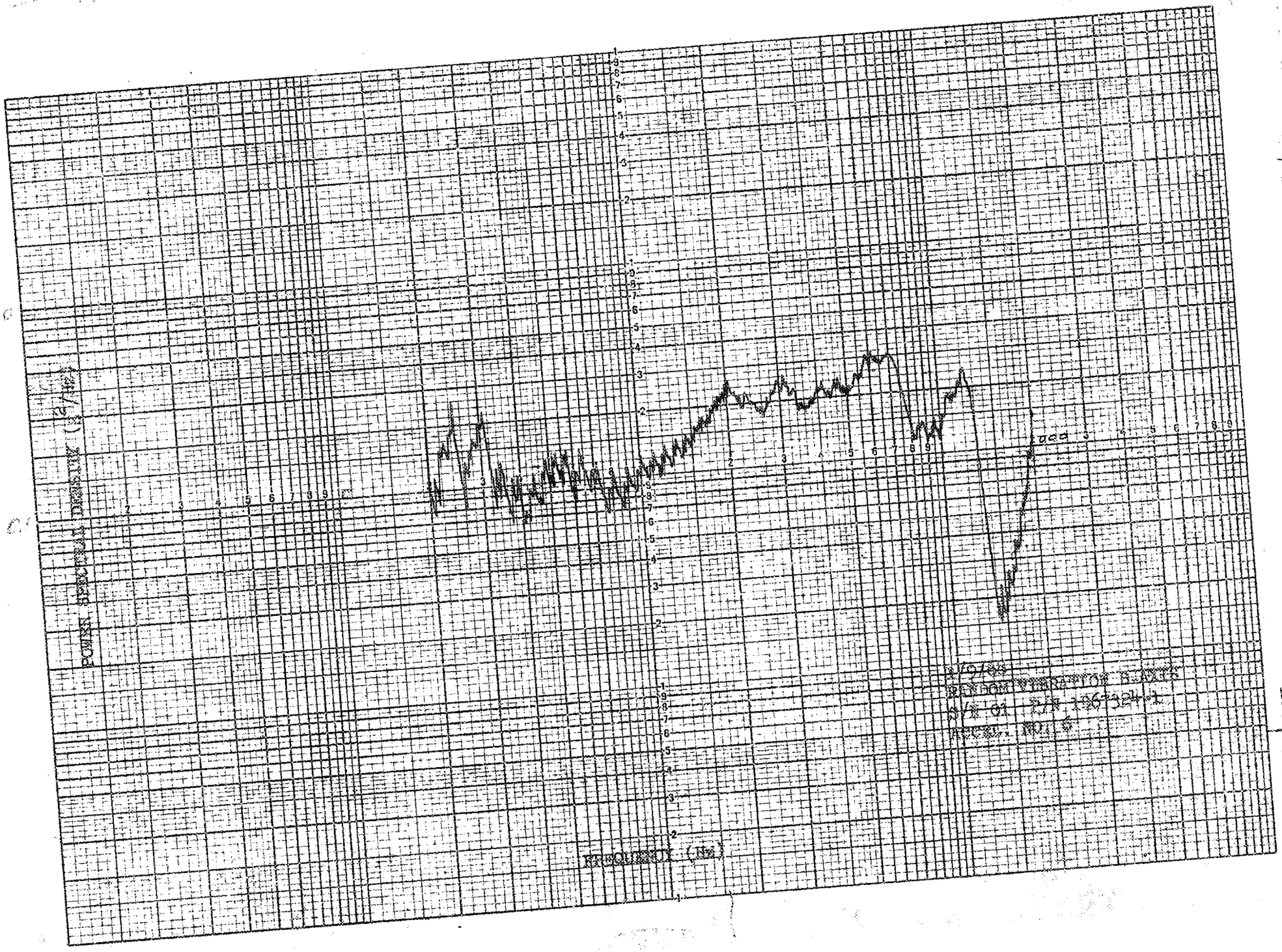



1/9/68
POWER SPECTRAL DENSITY (g²/Hz)
FREQUENCY (Hz)

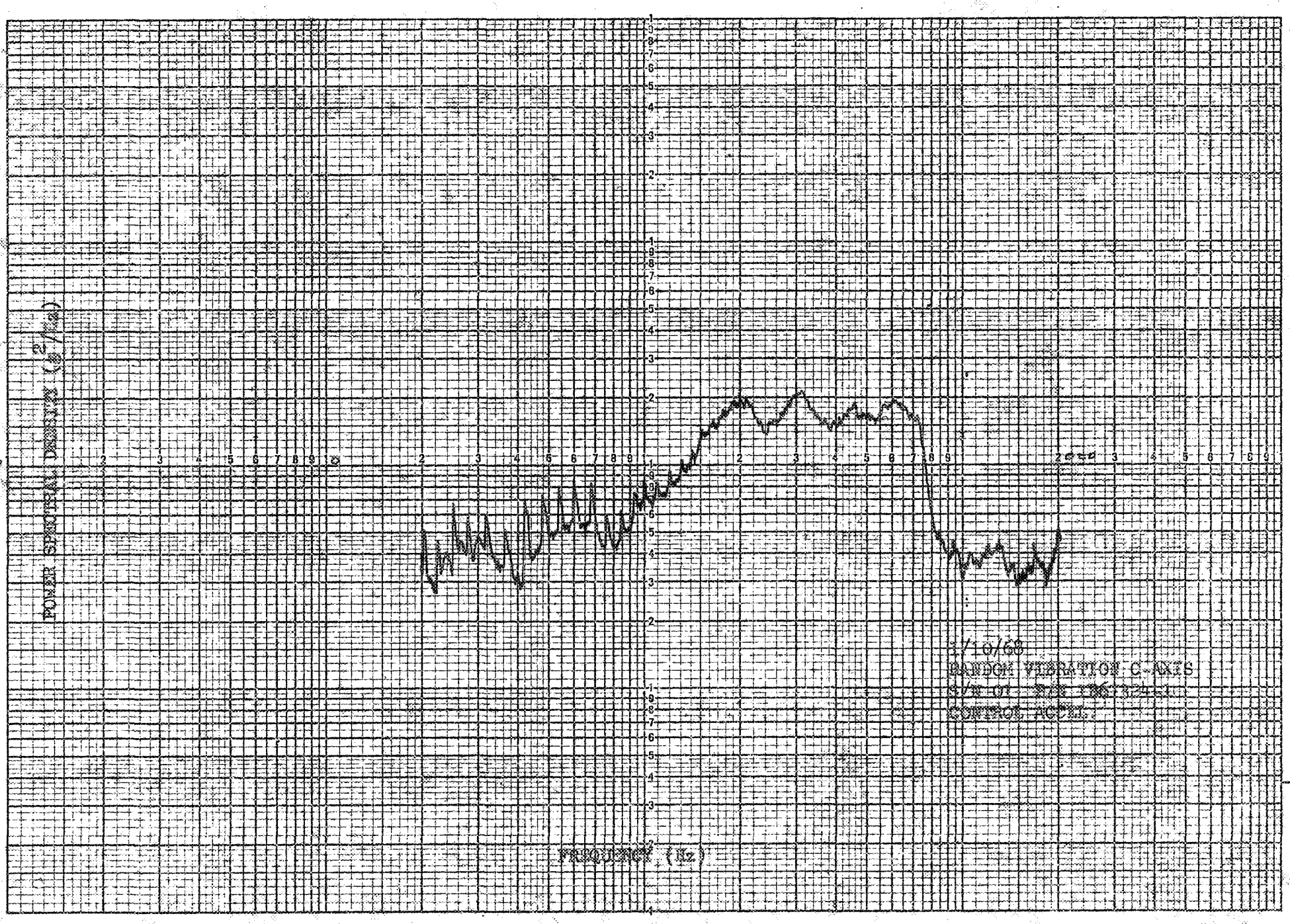
1/9/68 RANDOM B AXIS



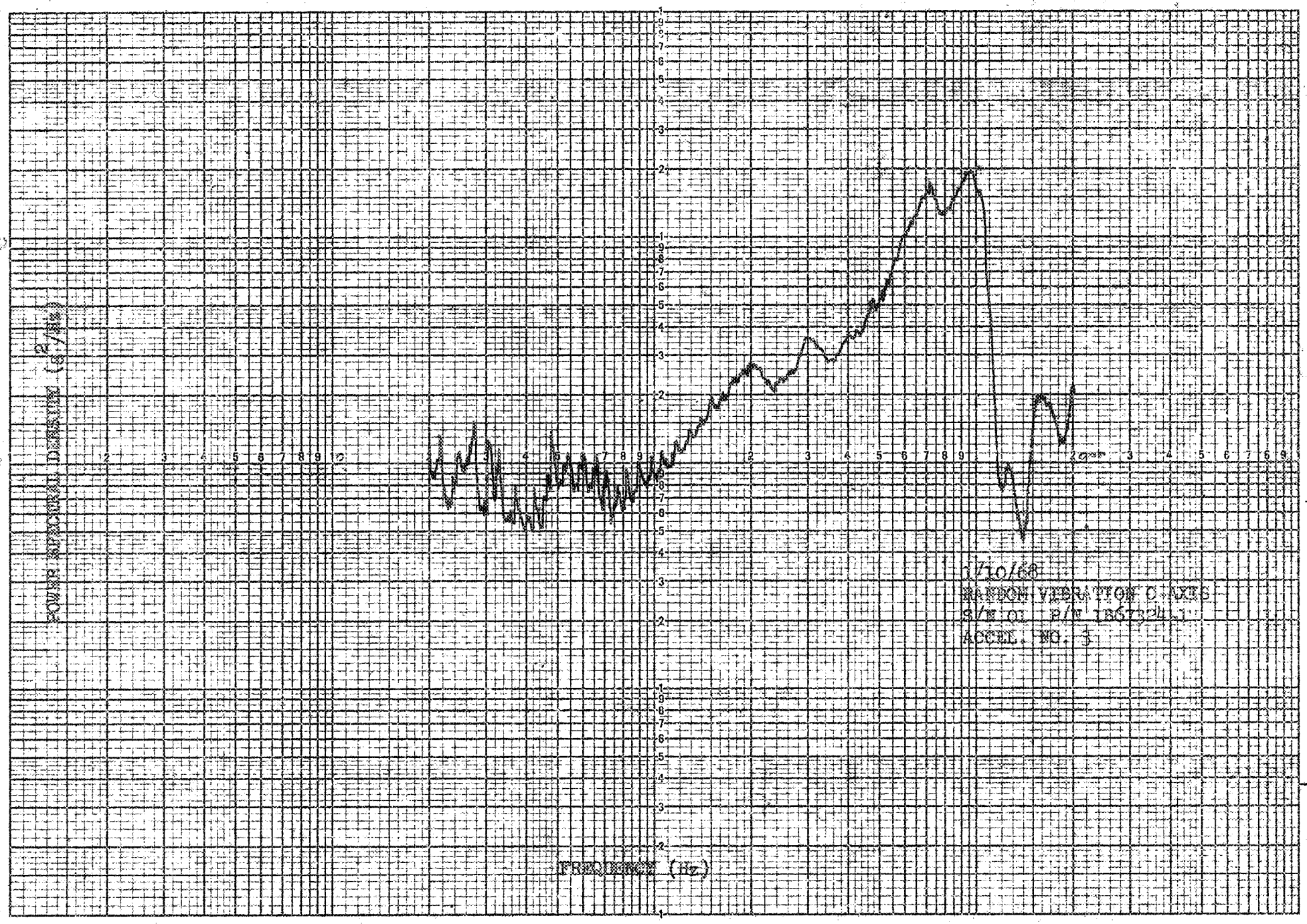
1/9/65 RANDOM E. AXIS



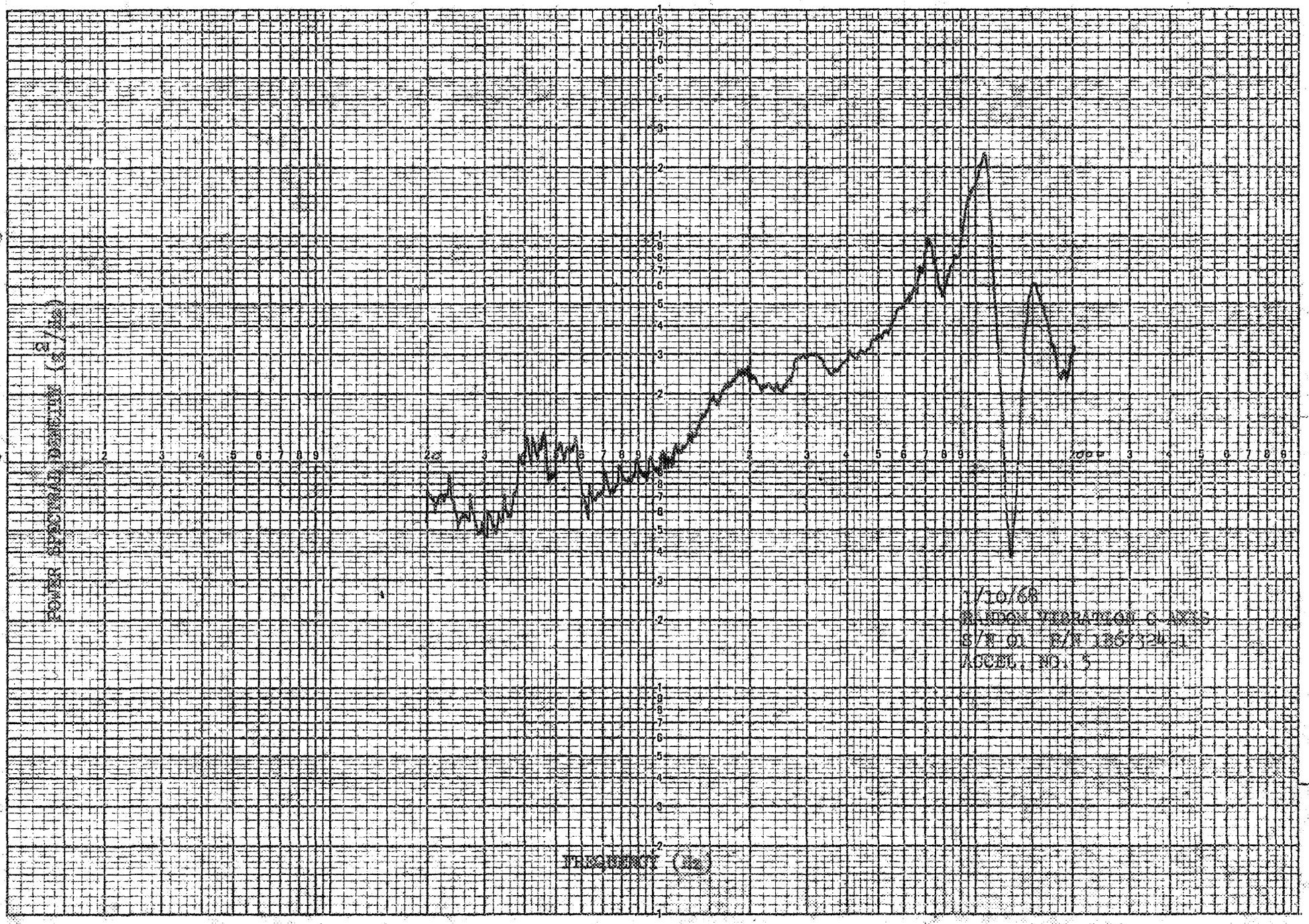
1/10/68 RANDOM C. AXIS



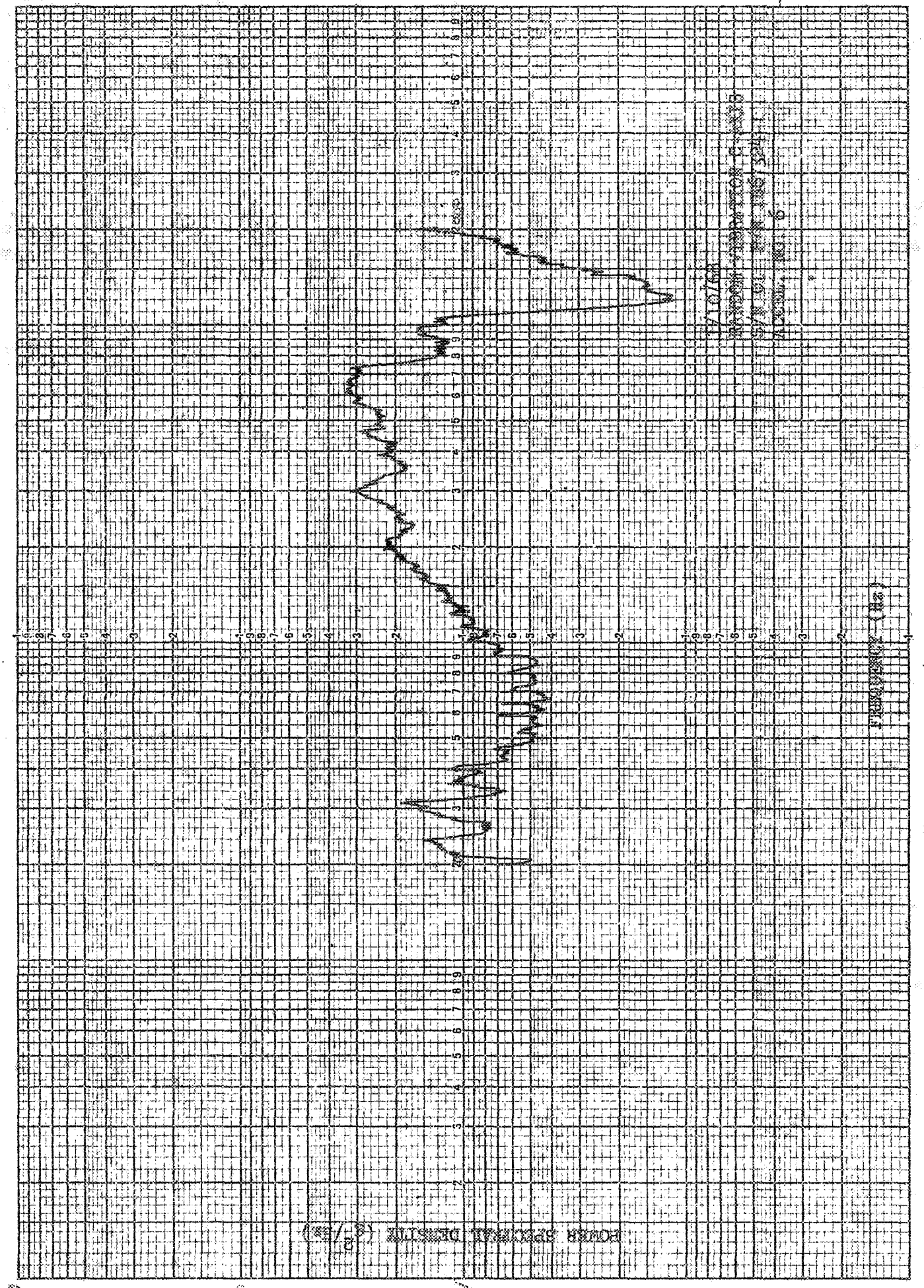
1/10/68 RANDOM C AXIS



1/10/68 RANDOM C AXIS



1/10/68 RANDOM CRAFTS



FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured	
Input Voltage	J1	J(+) and G(-)		23.999	vdc
Input Current	J1	J(+) and G(-)		.920	a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9982	vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995	vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.3	ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2	ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A.	vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A.	Hz
	J2-J1	E and H	2000 ± 200 Hz	1972	Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8	v p-p
			frequency	1972	Hz
			balance	254.5, 252.4	μs
	J3	H and K	10 ± 1 v p-p	9.8	v p-p
			frequency	1972	Hz
			balance	254.5, 252.4	μs
	J3	C and J	10 ± 1 v p-p	9.8	v p-p
			frequency	1972	Hz
			balance	254.6 252.3	μs
	J3	B and A	10 ± 1 v p-p	9.8	v p-p
			frequency	1972	Hz
			balance	254.5 252.3	μs

COMMENTS:

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. IRV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.001 vdc
Input Current	J1	J(+) and G(-)		0.960 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9989 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.997 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.3 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.3 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2004 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2004 Hz
			balance	250.5, 248.4 μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2004 Hz
			balance	250.5, 248.4 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2004 Hz
			balance	250.5, 248.4 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2004 Hz
			balance	250.5, 248.4 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67224-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.001 vdc
Input Current	J1	J(+) and G(-)		0.492 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9992 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.997 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.4 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2027 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2027 Hz
			balance	247.5, 245.6 μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2027 Hz
			balance	247.5, 245.6 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2027 Hz
			balance	247.6, 245.6 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2027 Hz
			balance	247.6, 245.6 μs

COMMENTS:

DATA SHEET

DATE 2/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM F-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.936 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.994 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.3 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1977 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	253.9 , 252.0 μs
	J3	H and K	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	253.9 , 251.9 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	253.9 , 251.8 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	253.9 , 251.9 μs

COMMENTS:

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6159

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. NSV-4B

OBSERVER LABORATORY Q&C ENGINEER J. Itagaki

LOADED _____ NOT LOADED ✓ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.680 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9948 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1979 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1979 Hz
			balance	253.6, 251.6 μs
	J3	H and K	10 ± 1 v p-p	9.8 v p-p
			frequency	1979 Hz
			balance	253.7, 251.5 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1979 Hz
			balance	253.7, 251.5 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1979 Hz
			balance	253.7, 251.5 μs

COMMENTS:

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1267324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED _____ NOT LOADED ✓ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.001 vdc
Input Current	J1	J(+) and G(-)		0.704 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9950 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.997 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2008 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2008 Hz
			balance	250.0, 247.9 μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2008 Hz
			balance	250.0, 247.9 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2008 Hz
			balance	250.0, 247.8 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2008 Hz
			balance	250.0, 247.8 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		31.999 vdc
Input Current	J1	J(+) and G(-)		0.736 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9954 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.997 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2030 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2030 Hz
			balance	247.3 , 245.2 μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2030 Hz
			balance	247.3 , 245.2 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2030 Hz
			balance	247.3 , 245.1 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2030 Hz
			balance	247.3 , 245.1 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DEV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED _____ NOT LOADED ✓ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.680 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9954 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1980 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1980 Hz
			balance	253.6 251.4 μs
	J3	H and K	10 ± 1 v p-p	9.8 v p-p
			frequency	1980 Hz
			balance	253.6 , 251.4 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1980 Hz
			balance	253.7 , 251.3 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1980 Hz
			balance	253.7 , 251.4 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 High Temperature TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED 10.40 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.997 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- ~~19.918~~ 19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~380~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2036 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-66 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1045 Hours

Thermocouples:

No. 1	155	°F
No. 2	155	°F
No. 3	155	°F
No. 4	155	°F
No. 5	155	°F
No. 6	165	°F
No. 7	166	°F
No. 8	166	°F
No. 9	166	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED 1100 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	~~-19.918~~ 19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2038 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A s
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. s
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A s
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. s

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-615

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T1061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1100 Hours

Thermocouples:

No. 1	154	°F
No. 2	162	°F
No. 3	162	°F
No. 4	162	°F
No. 5	162	°F
No. 6	169	°F
No. 7	169	°F
No. 8	169	°F
No. 9	169	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. LINE ITEM P-428

S.O. 5769-6304 E.W.O. 23284 T.C.D. 1710611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED 1115 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.997 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9957 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- ~~+9.918~~ 19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2039 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	~~2036~~ 2039 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T1061 MODEL NO. DS1113

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1115 Hours

Thermocouples:

No. 1	156	°F
No. 2	158	°F
No. 3	158	°F
No. 4	158	°F
No. 5	158	°F
No. 6	165	°F
No. 7	166	°F
No. 8	166	°F
No. 9	166	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 87 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1110611 MODEL NO. DSV-4B

OBSERVER LABORATORY Q&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1130 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386.0~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2039 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. s
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. s
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. s
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. s

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29254 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. TAGANI

1130 Hours

Thermocouples:

No. 1	154	°F
No. 2	163	°F
No. 3	163	°F
No. 4	163	°F
No. 5	163	°F
No. 6	167	°F
No. 7	168	°F
No. 8	169	°F
No. 9	169	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DEV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED 1145 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+49956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2039 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A μs
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. s

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSVB

OBSERVER LABORATORY GEC ENGINEER J. TAGATI

1145 Hours

Thermocouples:

No. 1	155	°F
No. 2	159	°F
No. 3	161	°F
No. 4	161	°F
No. 5	161	°F
No. 6	166	°F
No. 7	167	°F
No. 8	167	°F
No. 9	167	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. B-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM F-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1200 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 v	+4.9957 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2039 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A μs
	J3	H and K	10 ± v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P4AB

S.O. 5769-1304 E.W.O. 29284 T.C.D. 171044 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1200 Hours

Thermocouples:

No. 1	158	°F
No. 2	162	°F
No. 3	162	°F
No. 4	162	°F
No. 5	162	°F
No. 6	169	°F
No. 7	169	°F
No. 8	169	°F
No. 9	169	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. B-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1217 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~385~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2039 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2039 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P43B

S.O. 5769-6304 E.W.O. 22284 T.C.D. 177261 MODEL NO. DS/VB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1215 Hours

Thermocouples:

No. 1	169	°F
No. 2	169	°F
No. 3	169	°F
No. 4	169	°F
No. 5	169	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-43

OBSERVER LABORATORY G&C ENGINEER J. Iwaoki

LOADED ✓ NOT LOADED 1230 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2039 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171961 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1230 Hours

Thermocouples:

No. 1	166	°F
No. 2	166	°F
No. 3	166	°F
No. 4	166	°F
No. 5	166	°F
No. 6	169	°F
No. 7	169	°F
No. 8	169	°F
No. 9	169	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1245 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2038 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST ____ REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. ____ S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DS1VB

OBSERVER ____ LABORATORY G&C ENGINEER J. ITAGAKI

1245 Hours

Thermocouples:

No. 1	164	°F
No. 2	164	°F
No. 3	164	°F
No. 4	164	°F
No. 5	164	°F
No. 6	166	°F
No. 7	166	°F
No. 8	166	°F
No. 9	166	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. D3V-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1300 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.997 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2037 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. µs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. µs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. µs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. µs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. 051VB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1300 Hours

Thermocouples:

No. 1	168	°F
No. 2	168	°F
No. 3	168	°F
No. 4	168	°F
No. 5	168	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1315 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2038 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B 67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DS1V8

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1315 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	171	°F
No. 8	171	°F
No. 9	171	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171/611 MODEL NO. DSV-4B

OBSERVER LABORATORY Q&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1330 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2038 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6135

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1330 Hours

Thermocouples:

No. 1	172	°F
No. 2	172	°F
No. 3	172	°F
No. 4	172	°F
No. 5	172	°F
No. 6	172	°F
No. 7	172	°F
No. 8	172	°F
No. 9	172	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-2 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. UT10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1345 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.908 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2038 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10 v p-p
			frequency	2038 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1345 Hours

Thermocouples:

No. 1	168	°F
No. 2	168	°F
No. 3	168	°F
No. 4	168	°F
No. 5	168	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DEV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1400 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9957 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2037 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. µs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. µs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. µs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2038 Hz
			balance	N.A. µs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-15-[illegible] HIGH TEMPER TEST ____ REPORT NO. R-6156

PART NO. 1367327-1 CHG. LTR. ____ S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSIVB

OBSERVER ____ LABORATORY GEC ENGINEER J. ITAGAKI

1400 Hours

Thermocouples:

No. 1	173	°F
No. 2	173	°F
No. 3	173	°F
No. 4	173	°F
No. 5	173	°F
No. 6	173	°F
No. 7	173	°F
No. 8	173	°F
No. 9	173	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1415 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9957 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2036 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

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DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6[illegible]

PART NO. 1B673241 CHG. LTR. S/N. 01 LINE ITEM P4[illegible]

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DS[illegible]

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1415 Hours

Thermocouples:

No. 1	171	°F
No. 2	171	°F
No. 3	171	°F
No. 4	171	°F
No. 5	171	°F
No. 6	171	°F
No. 7	171	°F
No. 8	171	°F
No. 9	171	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED NOT LOADED 1430 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2037 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2037 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1430 Hours

Thermocouples:

No. 1	171	°F
No. 2	171	°F
No. 3	171	°F
No. 4	171	°F
No. 5	171	°F
No. 6	171	°F
No. 7	171	°F
No. 8	171	°F
No. 9	171	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1445 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386.0~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2036 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T1061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1445 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1310611 MODEL NO. DGV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1500 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2036 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DS1VB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1500 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 23284 T.C.D. 1T10611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1515 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2036 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P423

S.O. 5769-6304 E.W.O. 27287 T.C.D. 1710611 MODEL NO. 25IVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1515 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 186732-3 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1530 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.993 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2036 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P428

S.O. 5769-6304 E.W.O. 23284 T.C.D. 1T10011 MODEL NO. DS118

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1530 Hours

Thermocouples:

No. 1	172	°F
No. 2	172	°F
No. 3	172	°F
No. 4	172	°F
No. 5	171	°F
No. 6	171	°F
No. 7	171	°F
No. 8	171	°F
No. 9	171	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1567324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-43

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1545 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2036 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2036 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P423

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. D51VB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1545 Hours

Thermocouples:

No. 1	171	°F
No. 2	171	°F
No. 3	171	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867524-1 CHG. LTR. S/N. 01 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 29284 T.C.D. UT1001 MODEL NO. DSV-43

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1600 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DS1VB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1600 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29234 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1615 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.998 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DS148

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1615 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1630 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.999 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1630 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/12/65 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1645 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.952 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9956 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2034 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2034 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T1061 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1645 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	170	°F
No. 8	170	°F
No. 9	170	°F

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1700 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.952 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2034 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	10.0 ~~2034~~ v p-p
			frequency	2034 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-12-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. 05IVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1700 Hours

Thermocouples:

No. 1	170	°F
No. 2	170	°F
No. 3	170	°F
No. 4	170	°F
No. 5	170	°F
No. 6	170	°F
No. 7	171	°F
No. 8	171	°F
No. 9	171	°F

FORM NO. 39-830 (REV. 6-66)

DATA SHEET

DATE 1/12/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1715 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.997 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9955 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	Hz
	J2-J1	E and H	2000 ± 200 Hz	~~2034~~ 2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2035 Hz
			balance	N.A μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6135

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.924 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9980 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.3 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1968 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.9 v p-p
			frequency	1968 Hz
			balance	255.0, 252.0 μs
	J3	H and K	10 ± 1v p-p	9.9 v p-p
			frequency	1968 Hz
			balance	254.9 252.9 μs
	J3	C and J	10 ± 1 v p-p	9.9 v p-p
			frequency	1968 Hz
			balance	254.9 252.9 μs
	J3	B and A	10 ± 1 v p-p	9.9 v p-p
			frequency	1968 Hz
			balance	255.0, 252.9 μs

COMMENTS:

DATA SHEET

DATE 1/15/65 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.999 vdc
Input Current	J1	J(+) and G(-)		0.952 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9989 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.4 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2003 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2003 Hz
			balance	250.6, 248.6 μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2003 Hz
			balance	250.5, 248.5 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2003 Hz
			balance	250.6, 248.5 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2003 Hz
			balance	250.6, 248.5 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.000 vdc
Input Current	J1	J(+) and G(-)		0.980 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9992 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	398.4 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2027 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.1 v p-p
			frequency	2027 Hz
			balance	247.7, 245.6 μs
	J3	H and K	10 ± 1v p-p	10.1 v p-p
			frequency	2027 Hz
			balance	247.6, 245.6 μs
	J3	C and J	10 ± 1 v p-p	10.1 v p-p
			frequency	2027 Hz
			balance	247.7 245.5 μs
	J3	B and A	10 ± 1 v p-p	10.1 v p-p
			frequency	~~247.~~ 2027 Hz
			balance	247.7, 245.6 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.824 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9986 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.3 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.1 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1973 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.9 v p-p
			frequency	1973 Hz
			balance	254.4, 252.4 μs
	J3	H and K	10 ± 1v p-p	9.9 v p-p
			frequency	1973 Hz
			balance	254.5, 252.4 μs
	J3	C and J	10 ± 1 v p-p	9.9 v p-p
			frequency	1973 Hz
			balance	254.5, 252.3 μs
	J3	B and A	10 ± 1 v p-p	9.9 v p-p
			frequency	1973 Hz
			balance	254.4, 252.4 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.003 vdc
Input Current	J1	J(+) and G(-)		0.664 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9947 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1977 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	254.0, 251.8 μs
	J3	H and K	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	254.1, 251.8 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	254.1, 251.8 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	1977 Hz
			balance	254.6, 251.7 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST ____ REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. ____ S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1M0611 MODEL NO. DSV-4B

OBSERVER ____ LABORATORY C&C ENGINEER J. Itagaki

LOADED ____ NOT LOADED ✓ ____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.001 vdc
Input Current	J1	J(+) and G(-)		0.696 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9949 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2010 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.0 v p-p
			frequency	2009 Hz
			balance	249.9, 247.7 μs
	J3	H and K	10 ± 1 v p-p	10.0 v p-p
			frequency	2009 Hz
			balance	249.8, 247.7 μs
	J3	C and J	10 ± 1 v p-p	10.0 v p-p
			frequency	2009 Hz
			balance	249.9, 247.7 μs
	J3	B and A	10 ± 1 v p-p	10.0 v p-p
			frequency	2009 Hz
			balance	249.9, 247.6 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		31.999 vdc
Input Current	J1	J(+) and G(-)		0.728 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9953 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2033 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	10.1 v p-p
			frequency	2033 Hz
			balance	247.0, 245.0 μs
	J3	H and K	10 ± 1v p-p	10.1 v p-p
			frequency	2033 Hz
			balance	247.0, 244.9 μs
	J3	C and J	10 ± 1 v p-p	10.1 v p-p
			frequency	2033 Hz
			balance	247.1, 244.9 μs
	J3	B and A	10 ± 1 v p-p	10.1 v p-p
			frequency	2033 Hz
			balance	247.0, 244.9 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.628 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9950 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1976 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.9 v p-p
			frequency	1976 Hz
			balance	254.1, 251.9 μs
	J3	H and K	10 ± 1 v p-p	9.9 v p-p
			frequency	1976 Hz
			balance	254.2, 251.9 μs
	J3	C and J	10 ± 1 v p-p	9.9 v p-p
			frequency	1976 Hz
			balance	254.2, 251.8 μs
	J3	B and A	10 ± 1 v p-p	9.9 v p-p
			frequency	1976 Hz
			balance	254.1, 251.8 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

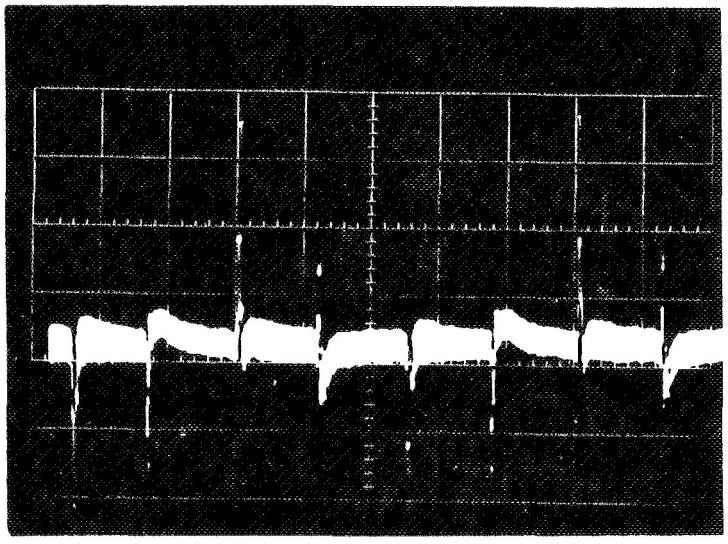
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

24 VDC Input.

LOADED ✓ NOT LOADED HOURS

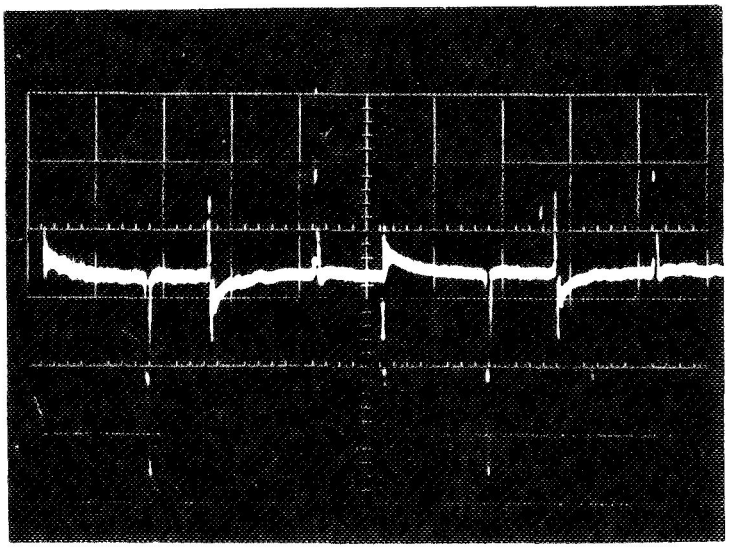
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	6 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 µs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 µs/cm

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

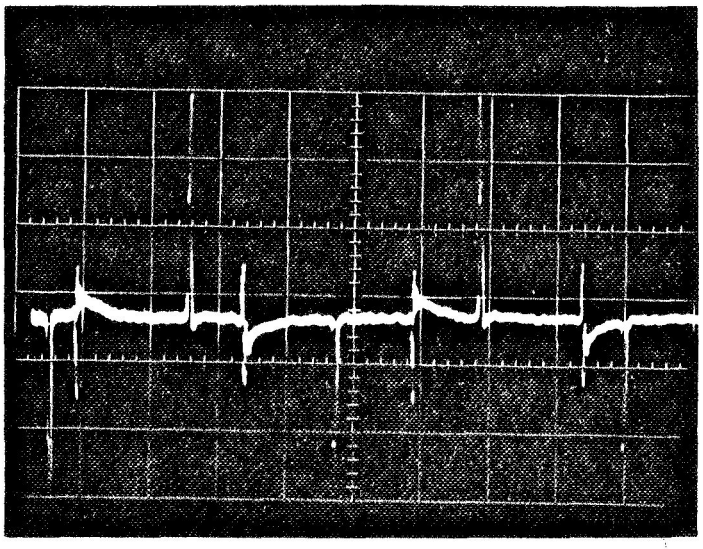
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

28 VDC Input

LOADED ✓ NOT LOADED HOURS

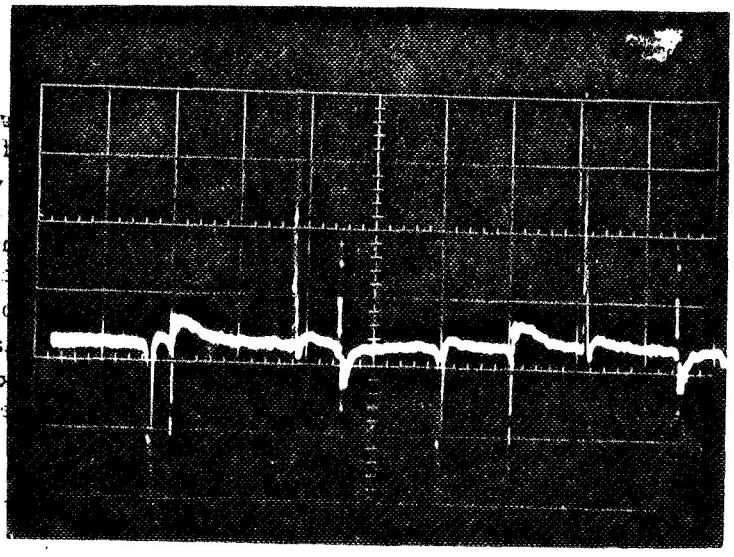
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mV/cm

Horz. Sens 100 μs/cm

FORM NO. 30-830 (REV. 6-66)

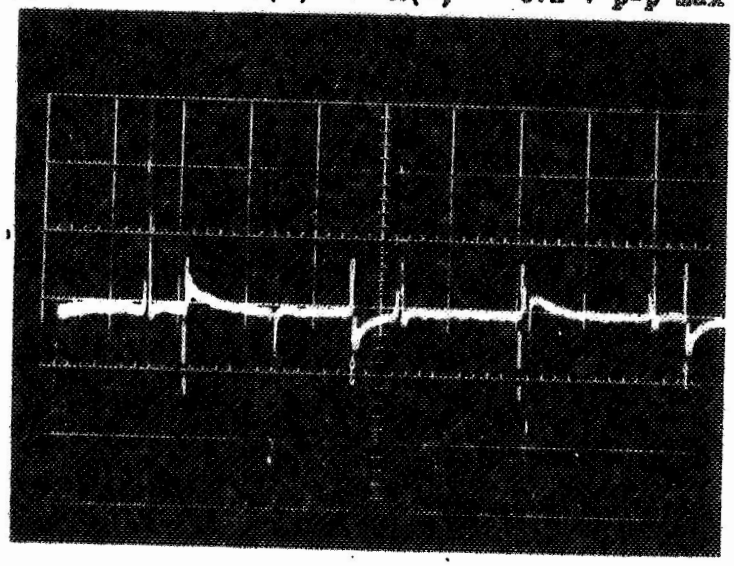
DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

32 VDC Input.

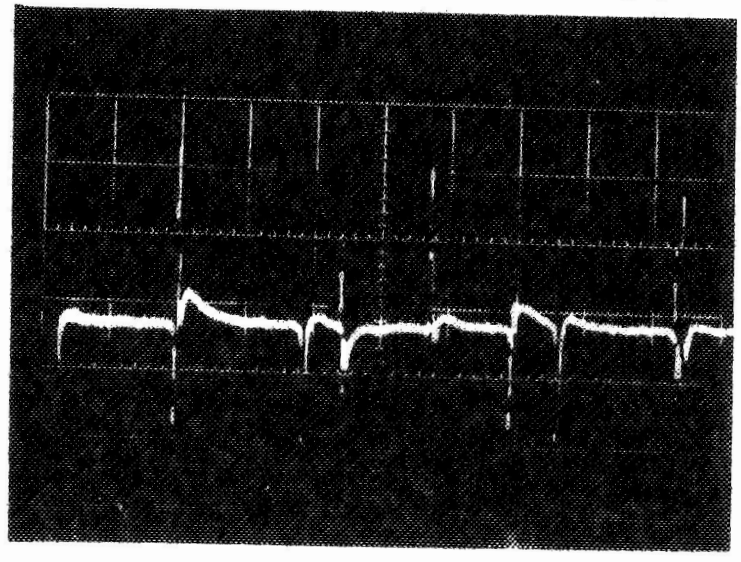
LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

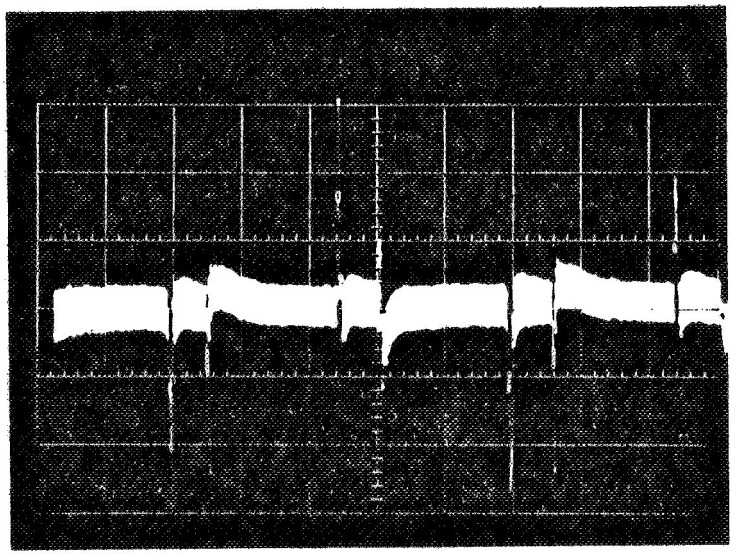
DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

24 VDC Input

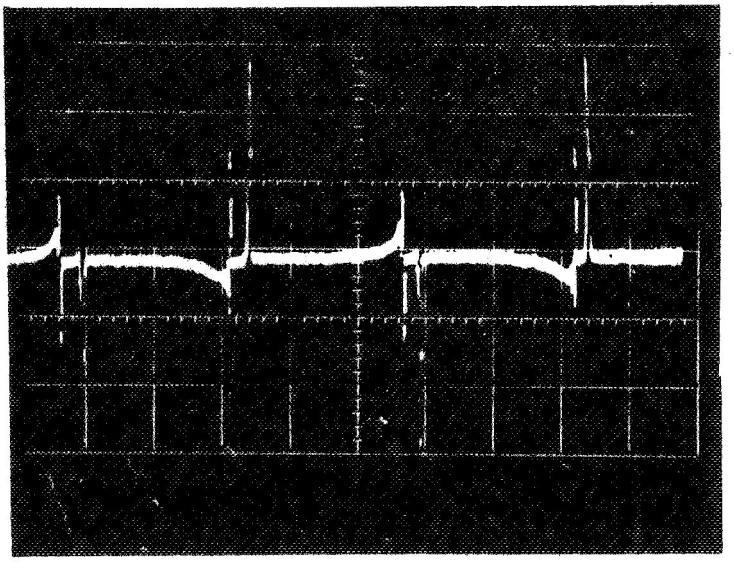
LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	6 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

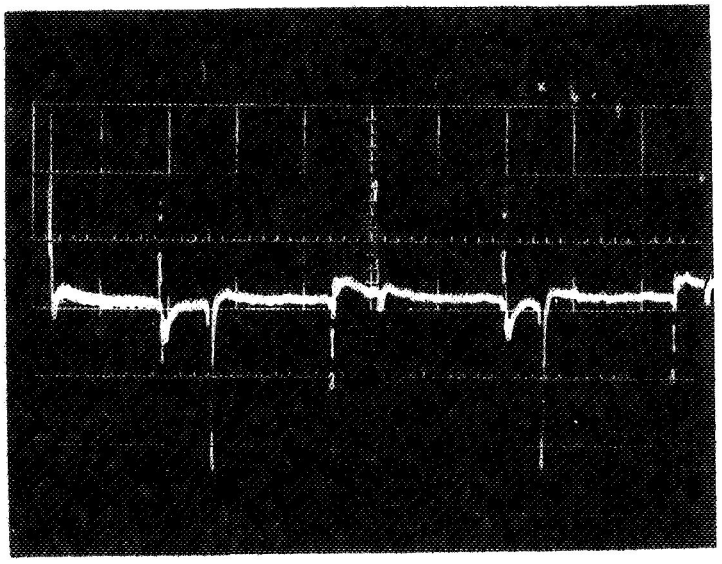
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

24 vdc Input.

LOADED NOT LOADED ✓ HOURS

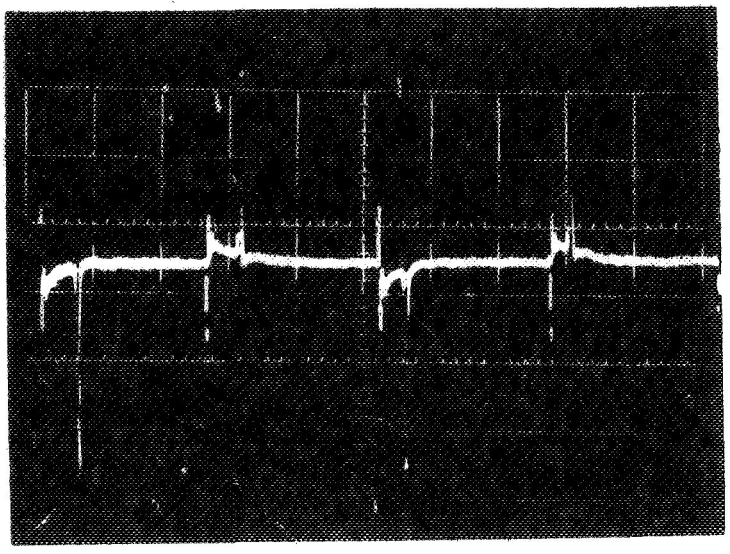
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

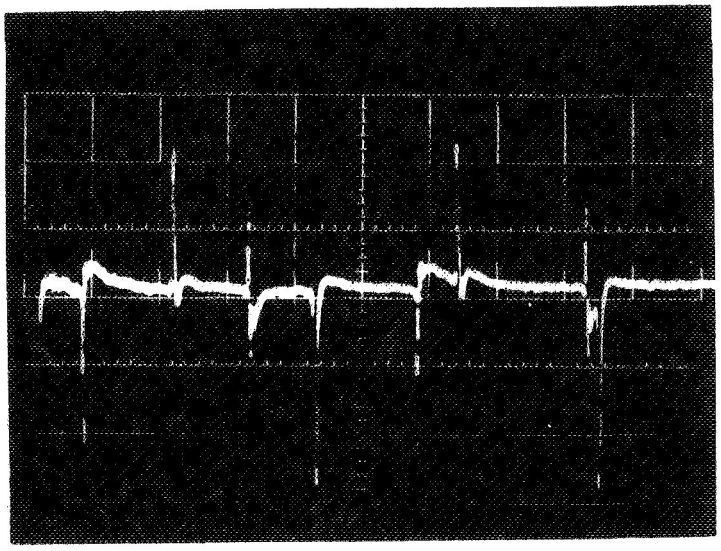
DATA SHEET

DATE 2/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

28 VDC Input

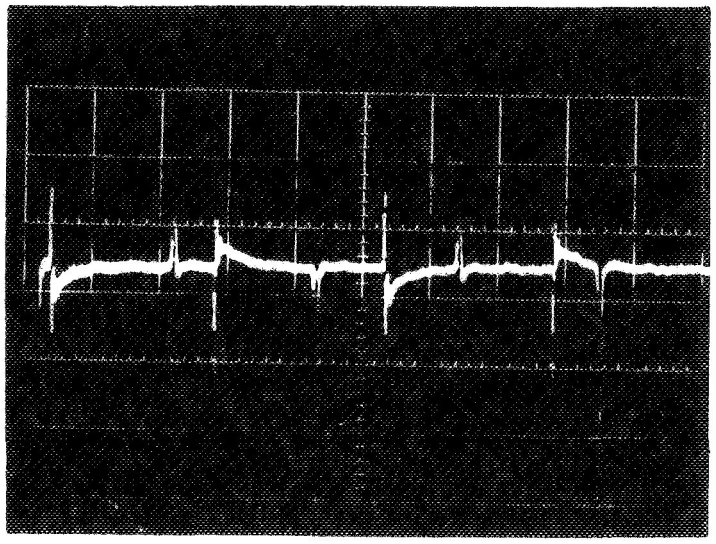
LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

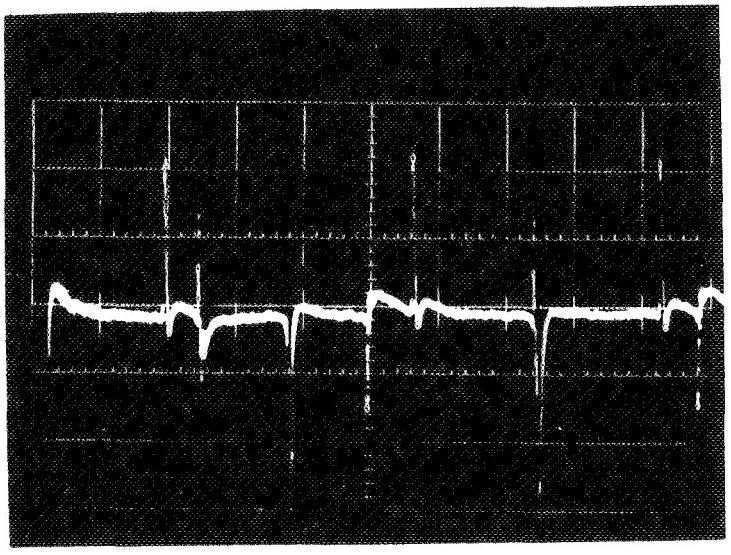
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

32 VDC Input

LOADED NOT LOADED ✓ HOURS

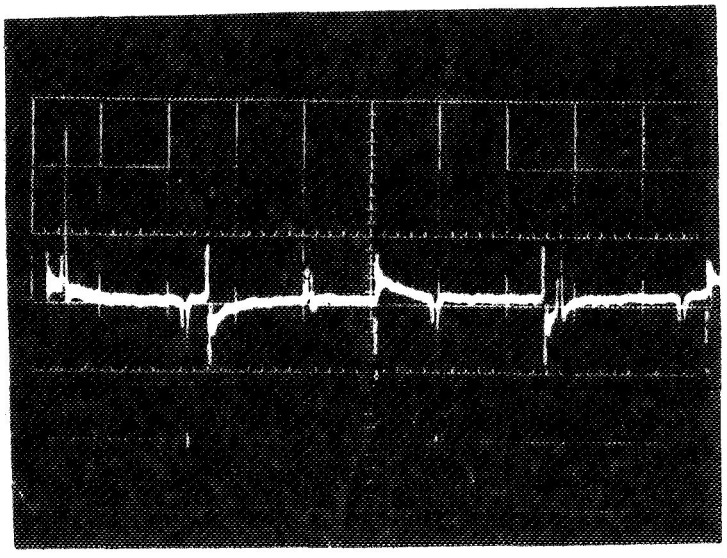
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 01 LINE ITEM P-42B

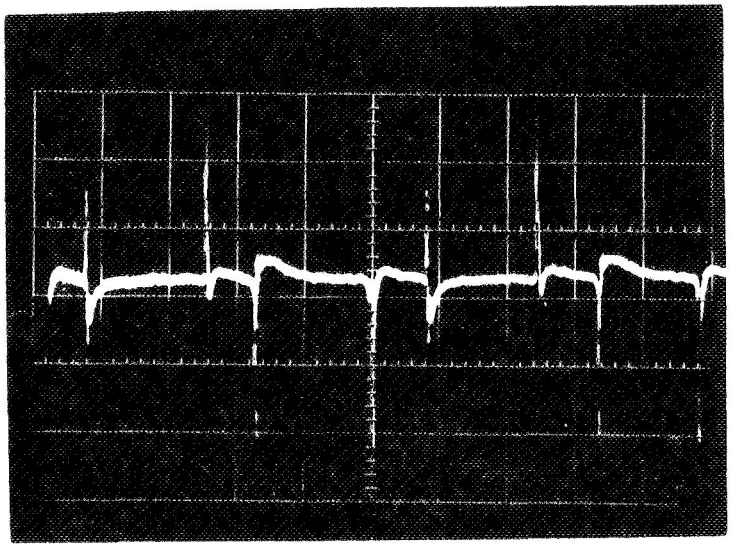
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

24 VDC Input.

LOADED NOT LOADED ✓ HOURS

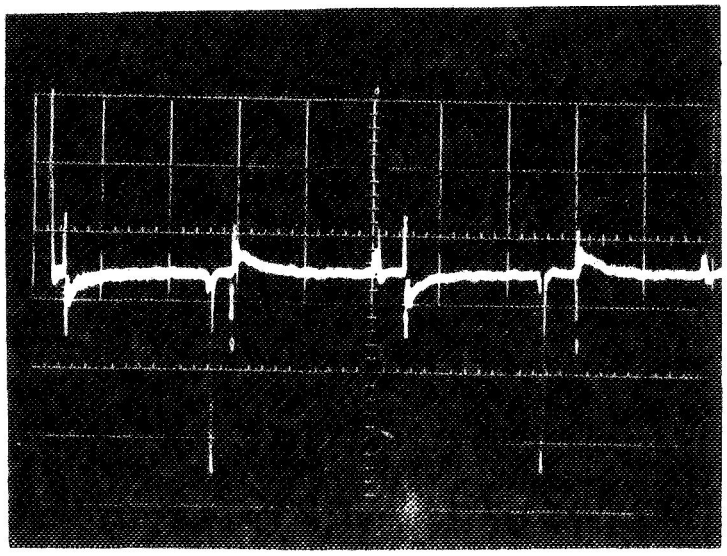
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2m v p-p



Vert. Sens 10 mv

Horz. Sens 100 μs/cm

Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 12-26-67 CIRCUIT RESISTANCE TEST ____ REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. ____ S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. ~~P42B~~ DSV-4B

OBSERVER M. Gardyne LABORATORY G&C ENGINEER J. Itagaki

CIRCUIT RESISTANCE CHECK

Connector	Between Pins	Required	Measured	
J1	G and H	1 ohm max	0.04	ohm
	G and J	25 ohm min	~~1181~~ 26.4	ohm
	B and J	1 ohm max	0.04	ohm
	J and Case	5 megohm min	150,000	megohm
J2	H and L	1 ohm max	0.41	ohm
	J and C	1 K ± 50 ohms	996	ohm
	J and L	1.5 K ohm min	1492	ohm
	J and Case	5 megohm min	100,000	megohm
	K and B	1 K ± 50 ohm	999	ohm
	K (-) and L (+)	2 K ohms min	2121	ohm
	M and L	1 ohm max	0.04	ohm
	L and Case	5 megohm min	100,000	megohm
	E and M	5 megohm min	INF.	megohm
J3	F and G	1 ohm max	0.16	ohm
	G and H	5 megohm min	INF.	megohm
	H and K	1 ohm max	0.17	ohm
	K and C	5 megohms min	INF.	megohm
	C and J	1 ohm max	0.17	ohm
	J and B	5 megohm min	INF.	megohm
	B and A	1 ohm max	0.20	ohm
J2 and J3	E and E	10K ± .5K ohm	9.99	Kohm

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 CALIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.002 vdc
Input Current	J1	J(+) and G(-)		0.920 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9999 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.998 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.6 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± ~~200~~ 5 Hz	2000 Hz
	J2-J1	E and H	2000 ± 200 Hz	2000 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2000 Hz
			balance	250.9 , 248.8 μs
	J3	H and K	10 ± v p-p	9.6 v p-p
			frequency	2001 Hz
			balance	250.9 , 248.8 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	~~9.6~~ 2000 Hz
			balance	250.8 ~~2000~~, 249.0 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2000 Hz
			balance	250.7 , 249.1 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1110611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.003 vdc
Input Current	J1	J(+) and G(-)		0.892 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9999 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.996 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 m	390.6 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	1969 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1969 Hz
			balance	254.9 , 252.7 μs
	J3	H and K	10 ± v p-p	9.5 v p-p
			frequency	1969 Hz
			balance	254.8 , 252.8 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1969 Hz
			balance	254.6 , 252.9 μs
	J3	B and A	10 ± 1 v p-p	9.5 ~~1969~~ v p-p
			frequency	1969 Hz
			balance	254.6 , 253.0 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

PAGE [illegible]

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5760-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DCV-48

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.002 vdc
Input Current	J1	J(+) and G(-)		0.924 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+5.0007 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.6 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	1998 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.4 , 249.3 μs
	J3	H and K	10 ± v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.2 , 249.4 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.1 , 249.6 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.0 , 249.5 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM F-429

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T0611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1530 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		31.999 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	5.0011 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.7 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2019 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	2018 Hz
			balance	248.3 , 246.9 μs
	J3	H and K	10 ± v p-p	9.8 v p-p
			frequency	2018 Hz
			balance	248.4 , 247.0 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	2018 Hz
			balance	248.4 , 247.0 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	2018 Hz
			balance	248.3 , 247.1 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DXV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.900 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	5.0006 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.996 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.6 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1972 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1972 Hz
			balance	254.6, 252.5 μs
	J3	H and K	10 ± v p-p	9.5 v p-p
			frequency	1971 Hz
			balance	254.5, 252.7 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1971 Hz
			balance	254.4, 252.8 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1971 Hz
			balance	~~252.4~~ 254.4, 252.8 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6135

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.640 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9975 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.997 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1973 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.3 , 252.3 μs
	J3	H and K	10 ± v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.2 , 252.4 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.1 , 252.5 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.1 , 252.6 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-630 E.W.O. 29284 T.C.D. 1210611 MODEL NO. DGV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ 1540 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.001 vdc
Input Current	J1	J(+) and G(-)		0.664 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9975 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2000 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.7 v p-p
			frequency	2000 Hz
			balance	250.9, 249.0 μs
	J3	H and K	10 ± v p-p	9.7 v p-p
			frequency	2000 Hz
			balance	250.8, 249.1 μs
	J3	C and J	10 ± 1 v p-p	9.7 v p-p
			frequency	2000 Hz
			balance	250.7, 249.2 μs
	J3	B and A	10 ± 1 v p-p	9.7 v p-p
			frequency	2000 Hz
			balance	250.7, 249.3 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-2 CHG. LTR. S/N. 03 LINE ITEM P-42E

S.O. 5769-6304 E.W.O. 29264 T.C.D. 170611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		31.999 vdc
Input Current	J1	J(+) and G(-)		0.692 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9977 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.999 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2021 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.8 v p-p
			frequency	2021 Hz
			balance	~~246.6~~ 248.3, 246.5 μs
	J3	H and K	10 ± v p-p	9.8 v p-p
			frequency	2020 Hz
			balance	248.2, 246.6 μs
	J3	C and J	10 ± 1 v p-p	9.8 v p-p
			frequency	2020 Hz
			balance	248.1, 246.7 μs
	J3	B and A	10 ± 1 v p-p	9.8 v p-p
			frequency	2020 Hz
			balance	248.1, 246.7 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/8/68 PRE-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1F10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ 1545 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.640 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9976 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.997 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	1973 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.5, 252.0 μs
	J3	H and K	10 ± v p-p	9.5 v p-p
			frequency	1974 Hz
			balance	254.5, 252.1 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.3, 252.2 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.1, 252.3 μs

COMMENTS:

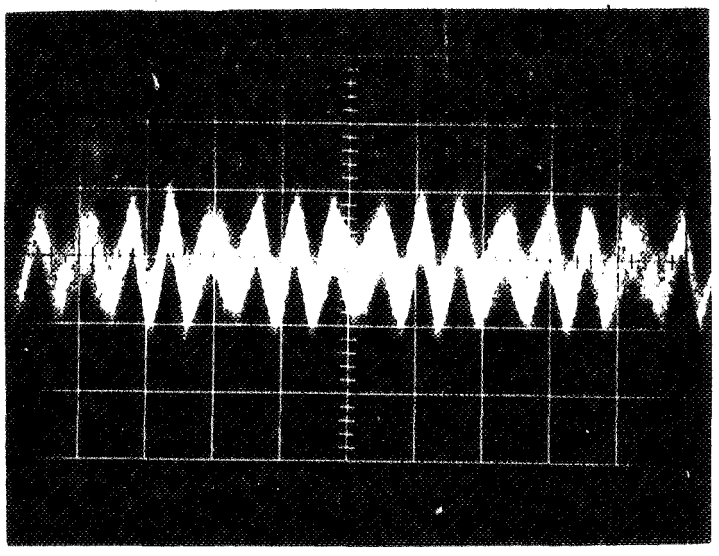
DATA SHEET

DATE 1/9/68 TYPICAL RIPPLE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER M. Gardyne LABORATORY G&C ENGINEER J. Itagaki

28 VDC Input

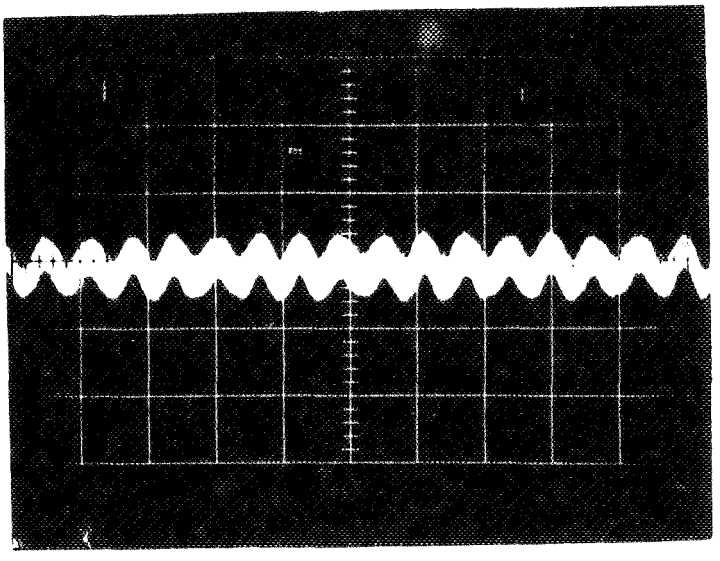
LOADED ✓ NOT LOADED _____ HOURS _____

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	45 mv p-p



Vert. Sens 20 mv/cm
Horz. Sens 1 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	20 mv p-p



Vert. Sens 20 mv/cm
Horz. Sens 1 μs/cm

DATA SHEET

DATE 1/9/68 ~~PRE-VIBRATION~~ TYPICAL NOISE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

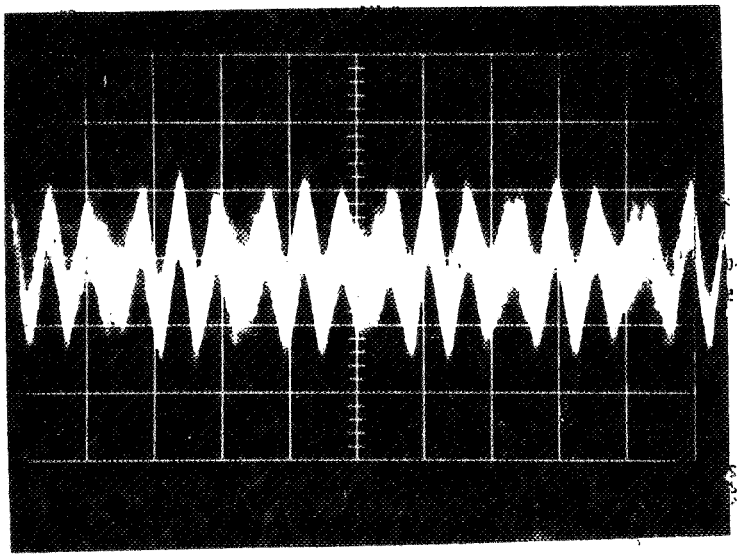
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER M. Gardyne LABORATORY G & C ENGINEER J. Itagaki

No POWER TO UNIT

LOADED ✓ NOT LOADED _____ HOURS _____

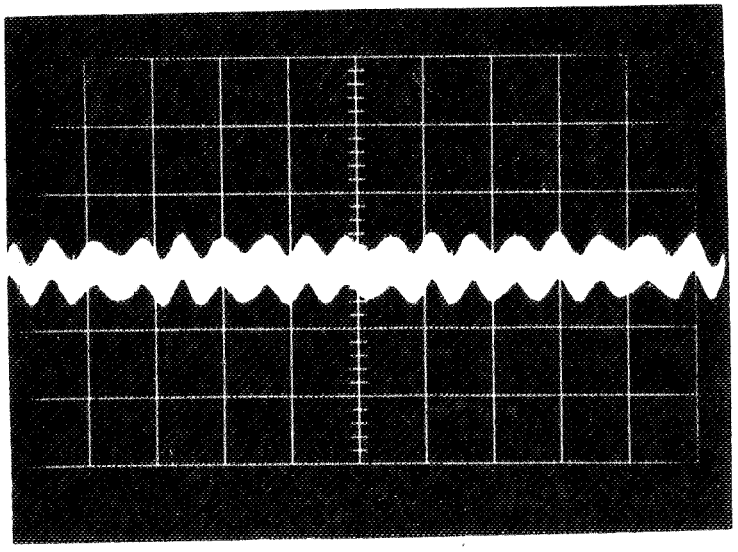
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	50 mv p-p



Vert. Sens 20 mv/cm

Horz. Sens 1 μs/cm

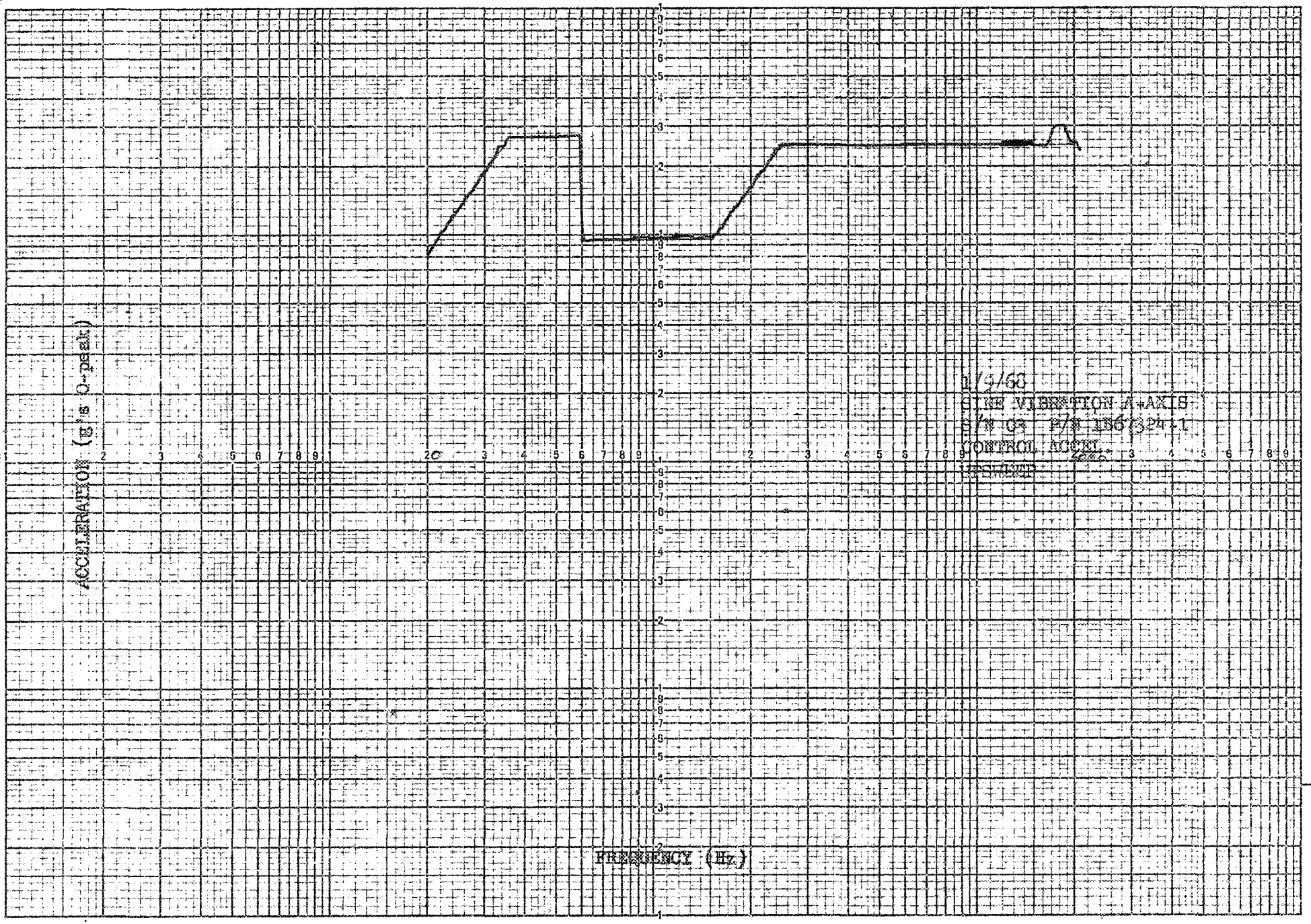
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	20 mv p-p

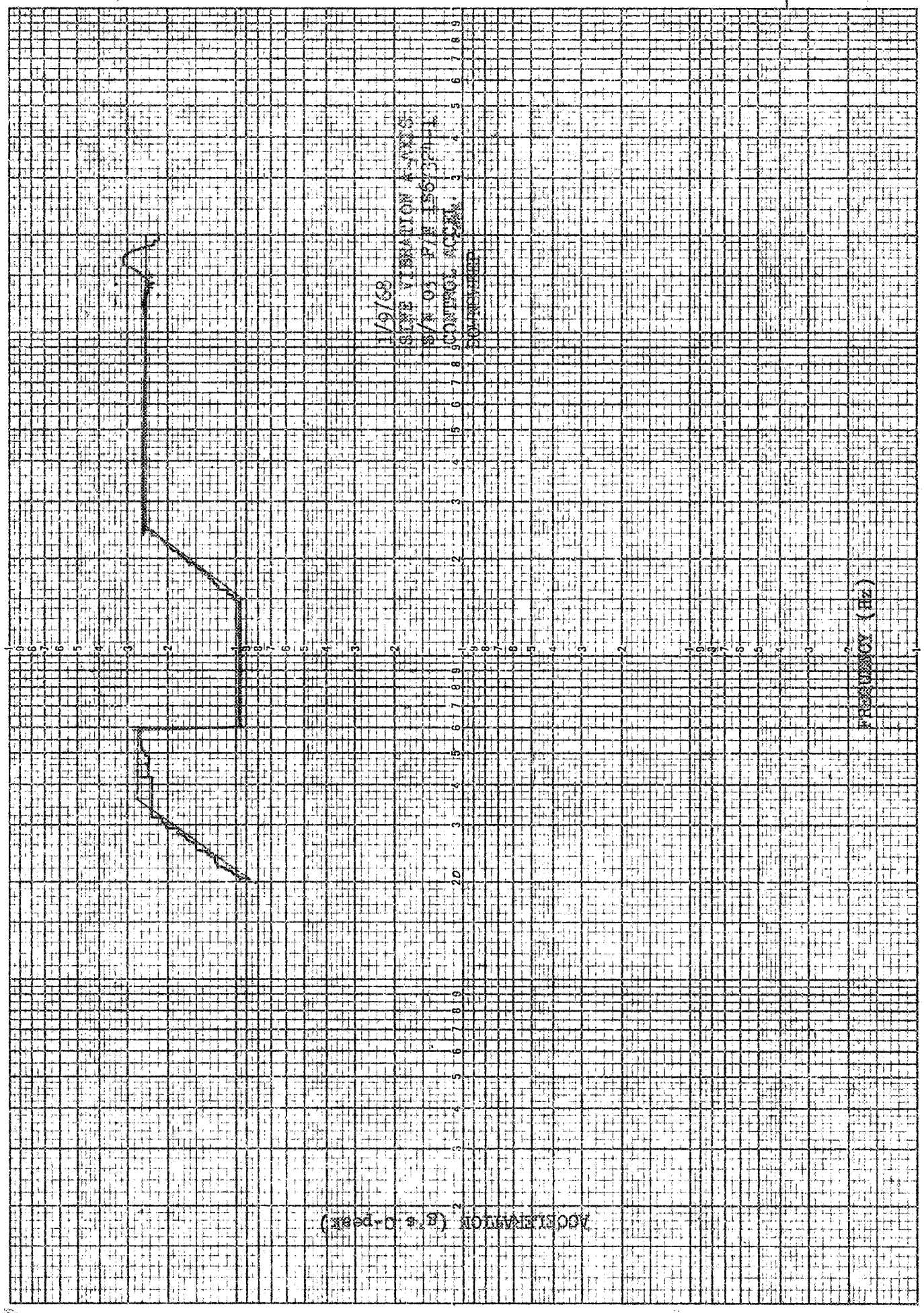


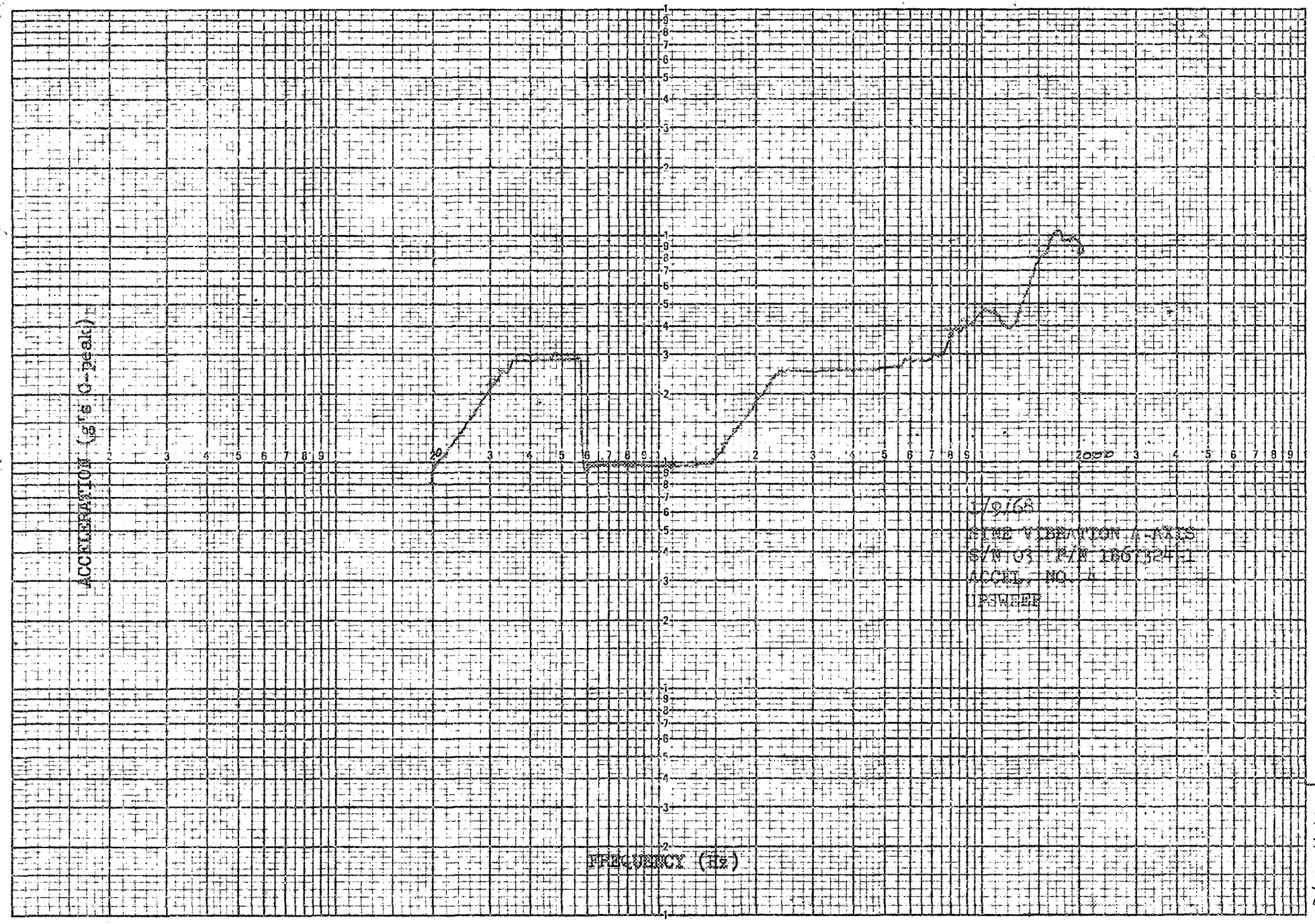
Vert. Sens 20 mv/cm

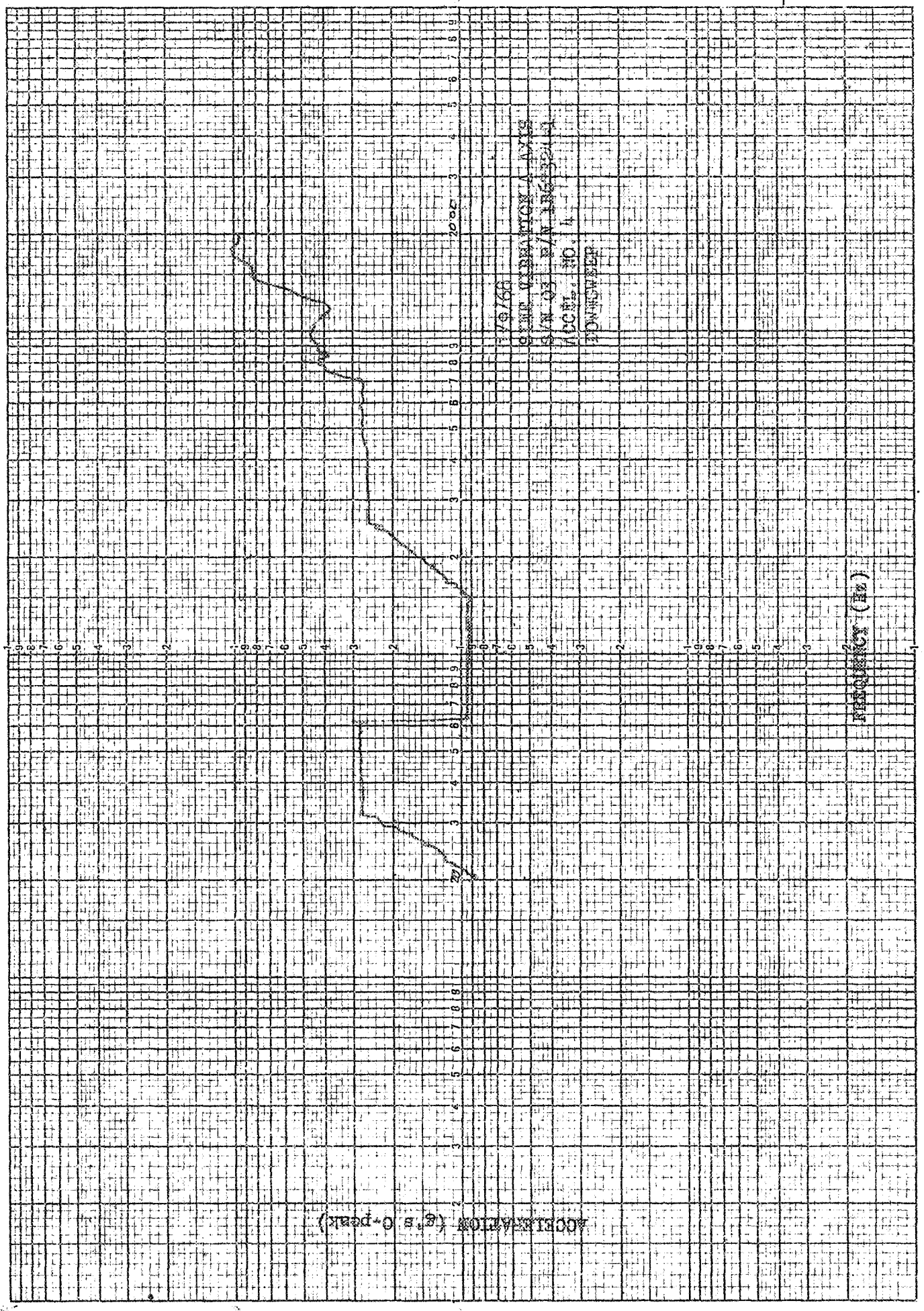
Horz. Sens 1 μs/cm

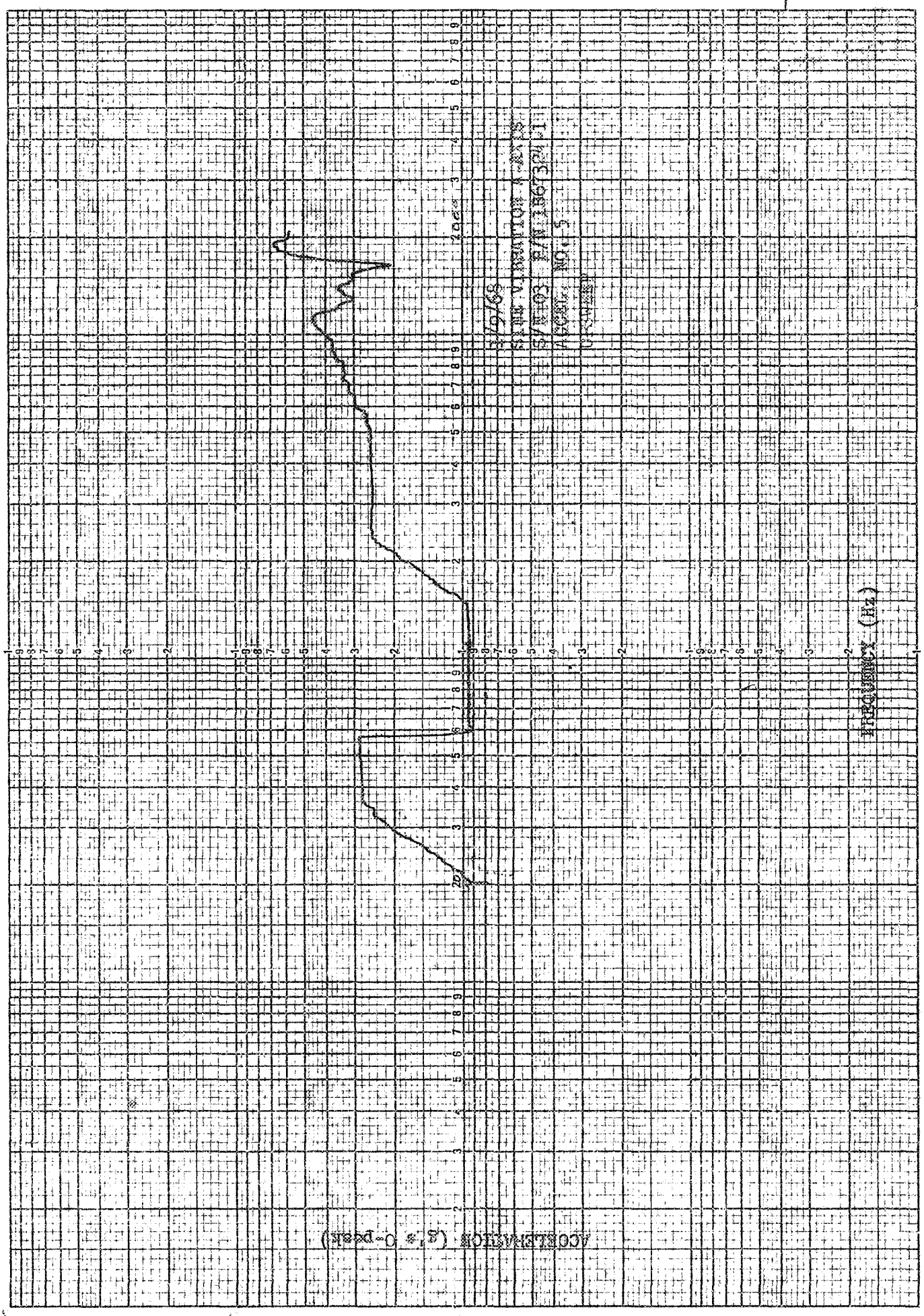
1/9/68 SINE A AND B

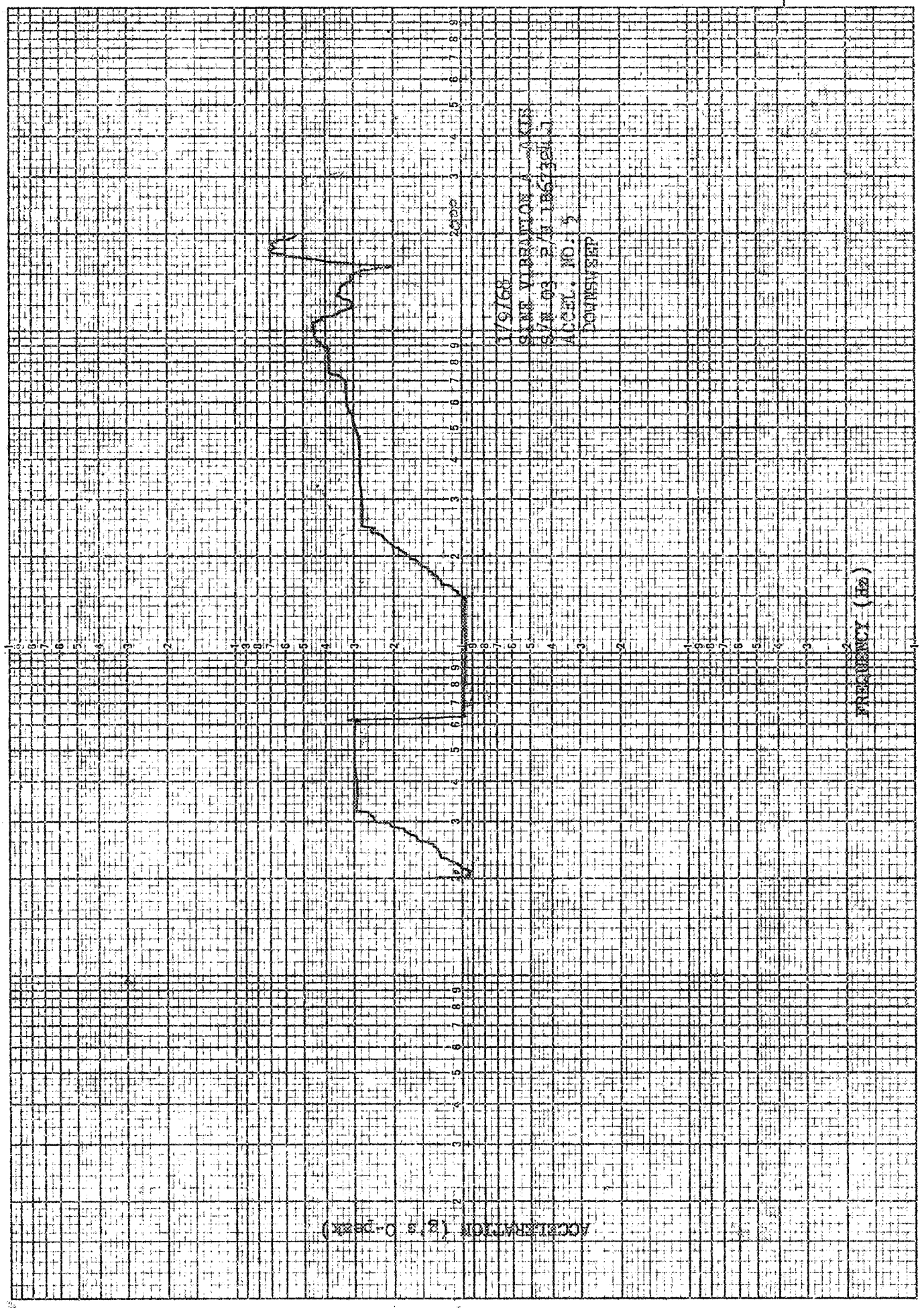


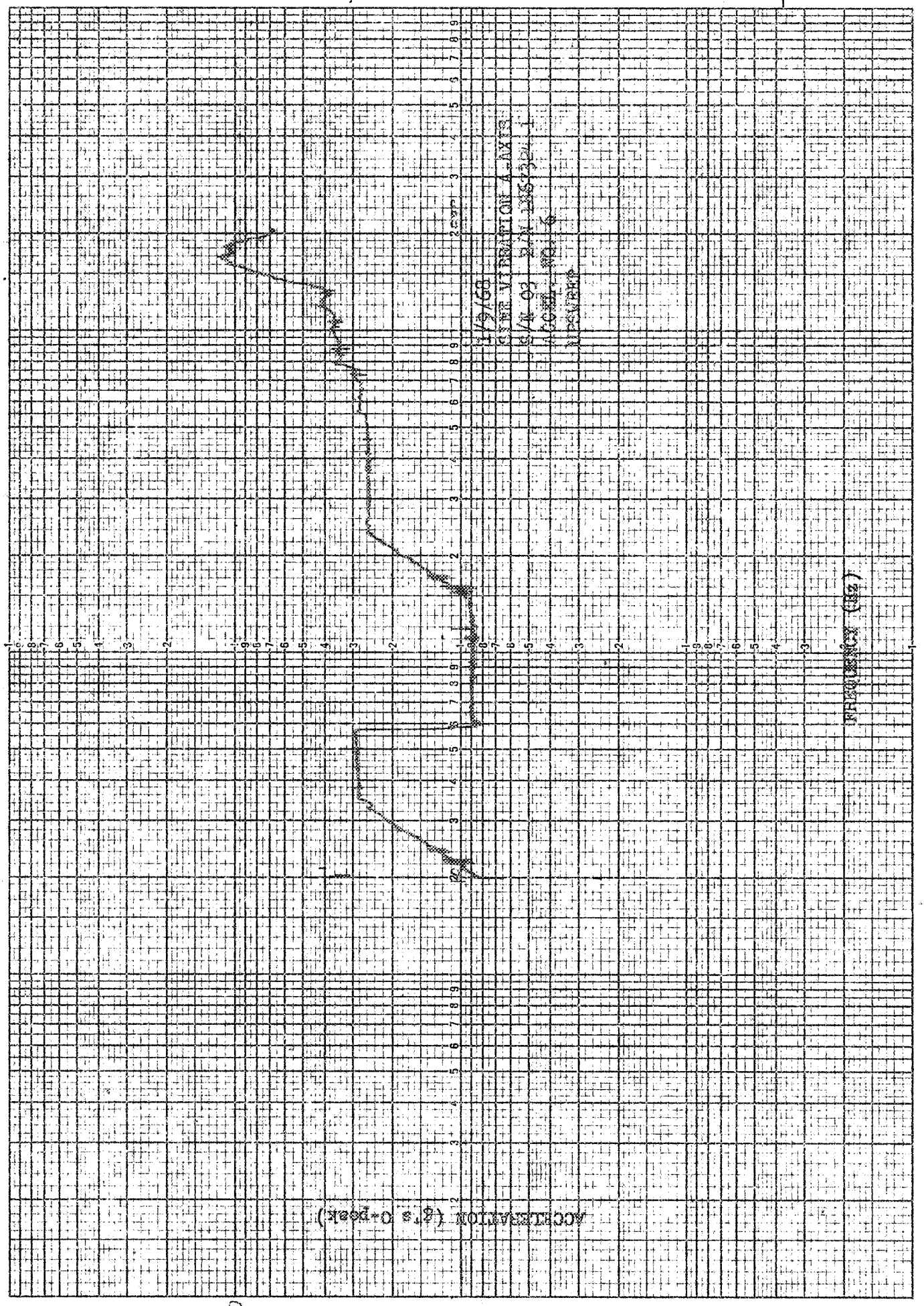

1/9/68
SINE VIBRATION A-AXIS
S/N 03 P/N 156[illegible]
CONTROL ACCEL.
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)


ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
20
2000
1/9/68
SINE VIBRATION A-AXIS
S/N 03 P/N 1867324-1
ACCEL. NO. 4
UPPER


FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

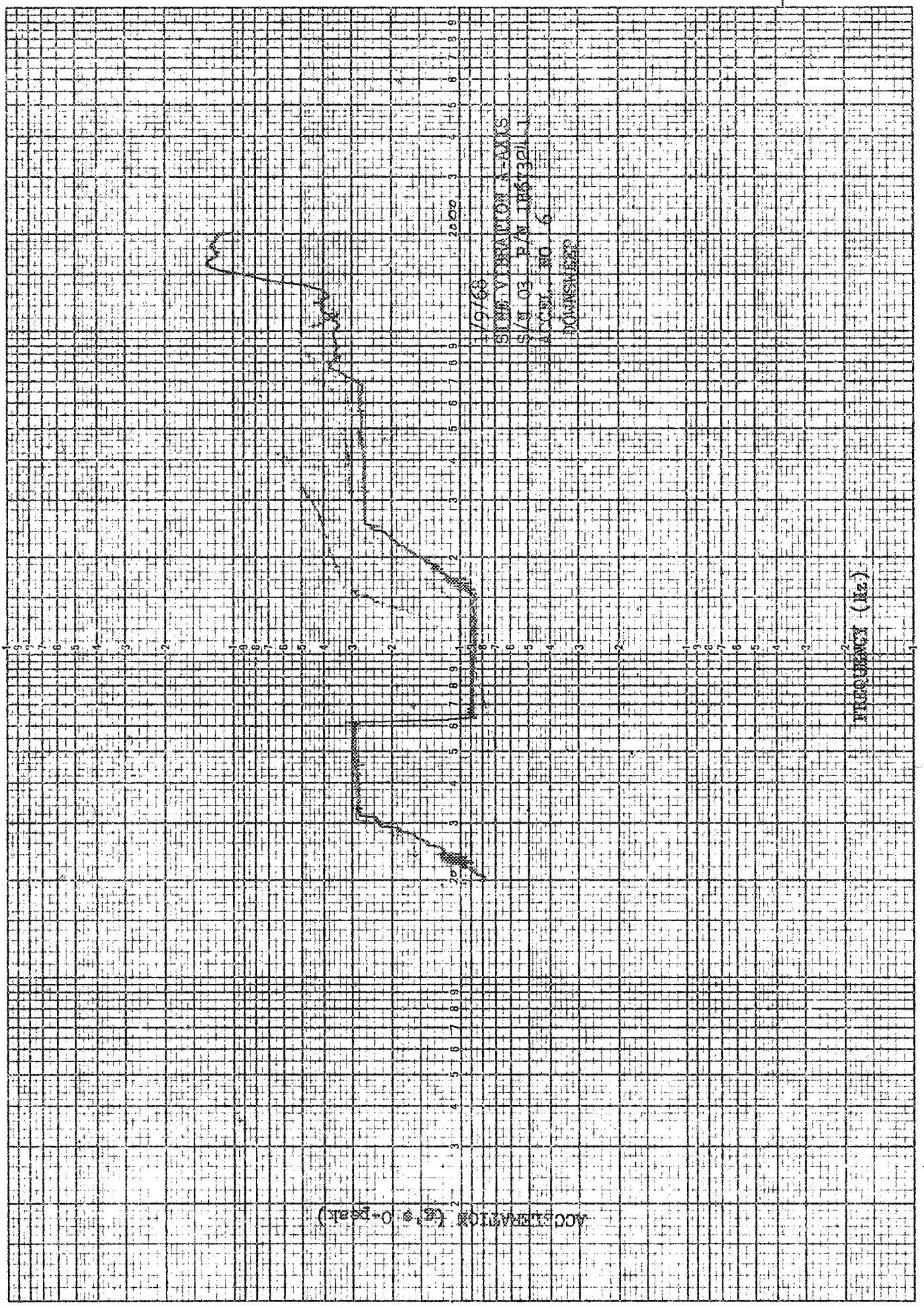

SINE VIBRATION A-AXIS
S/N 03 P/N 1867324-1
ACCEL. NO. 5
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

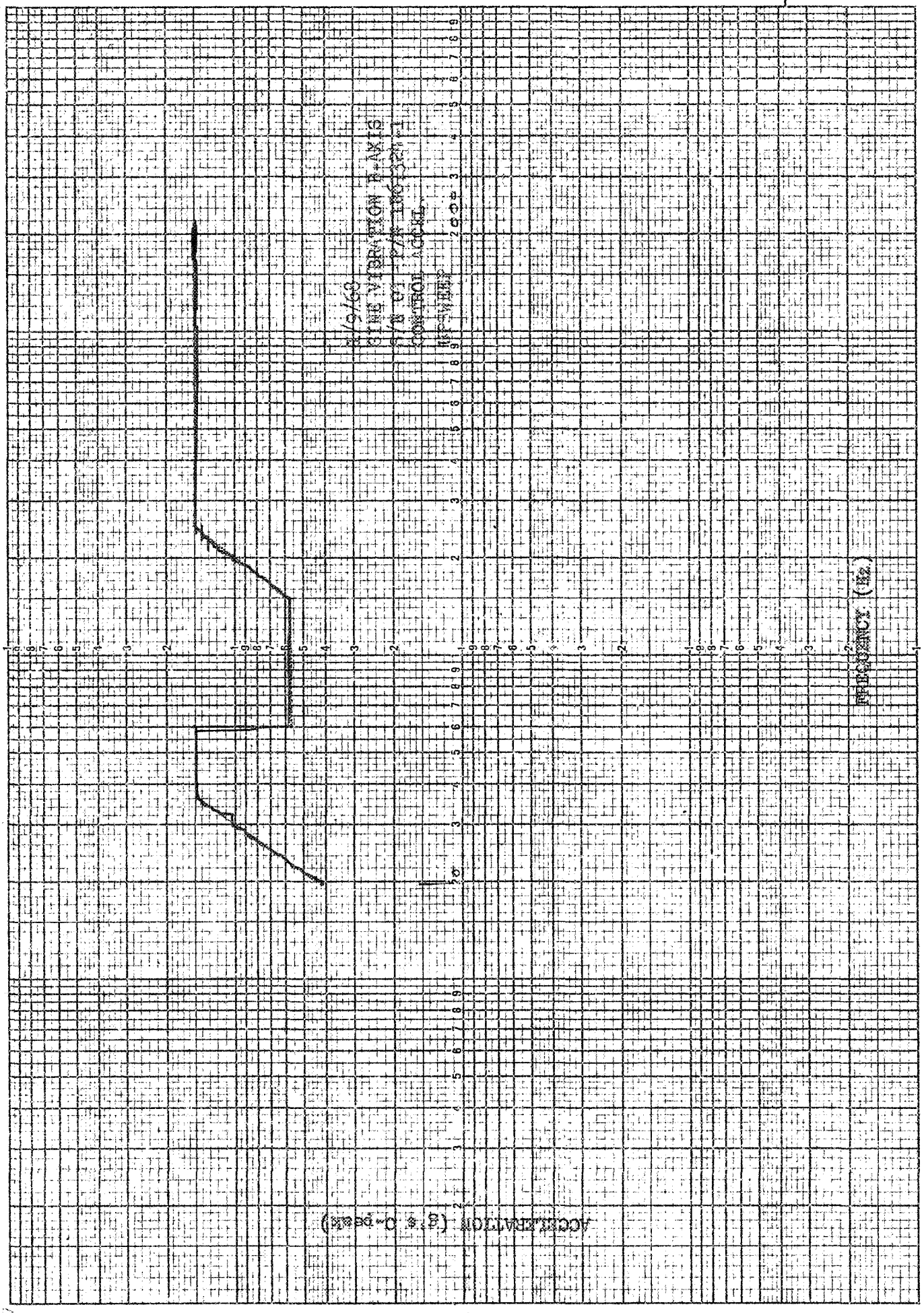

1/9/68
SINE VIBRATION
S/N 03 P/N 1B67394-1
ACCEL. NO. 5
DOWNSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)


1/9/68
SINE VIBRATION A-AXIS
S/N 03 P/N 1167324-1
ACCEL. NO. 6
UPSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)
100
10

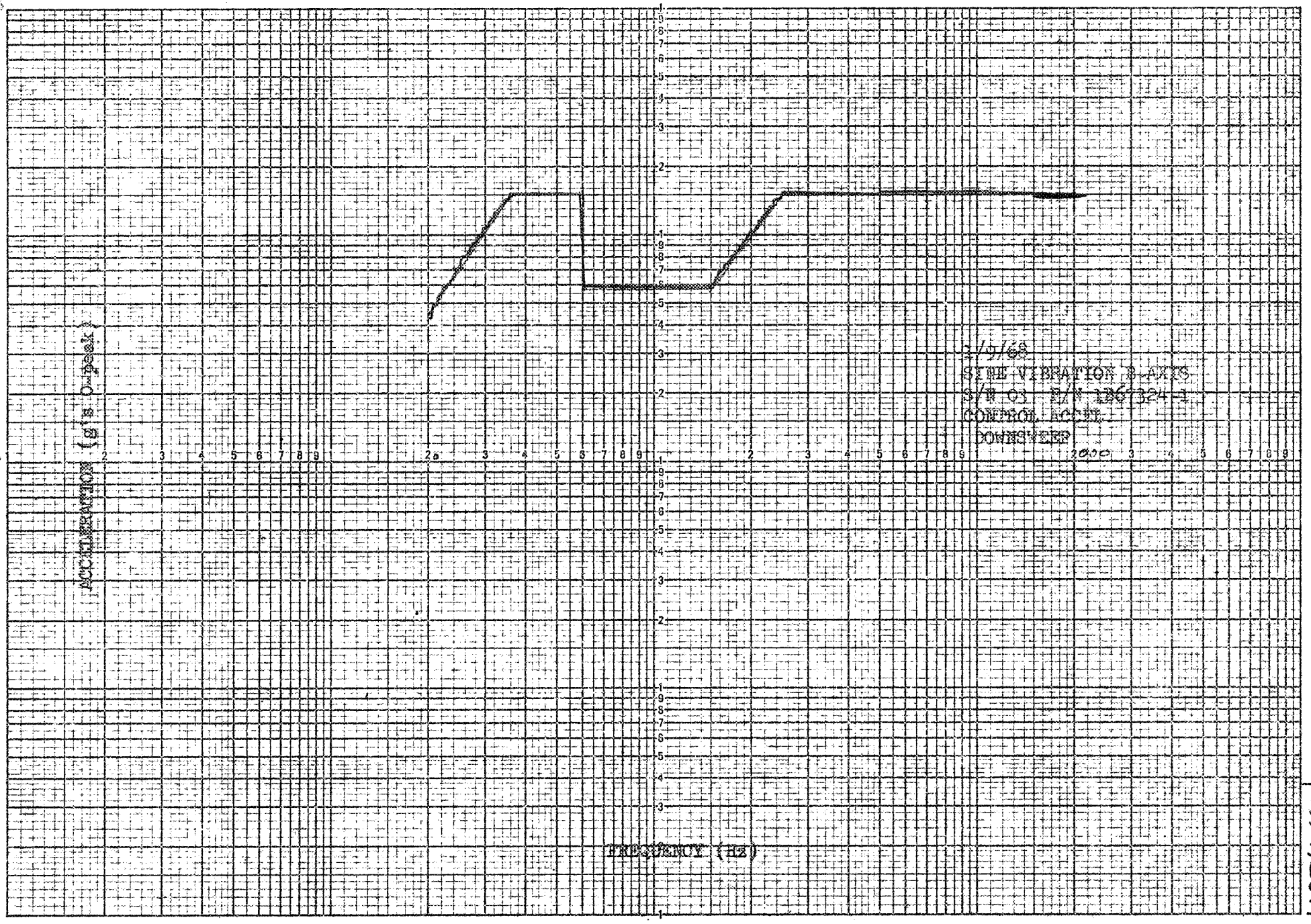
A AXIS

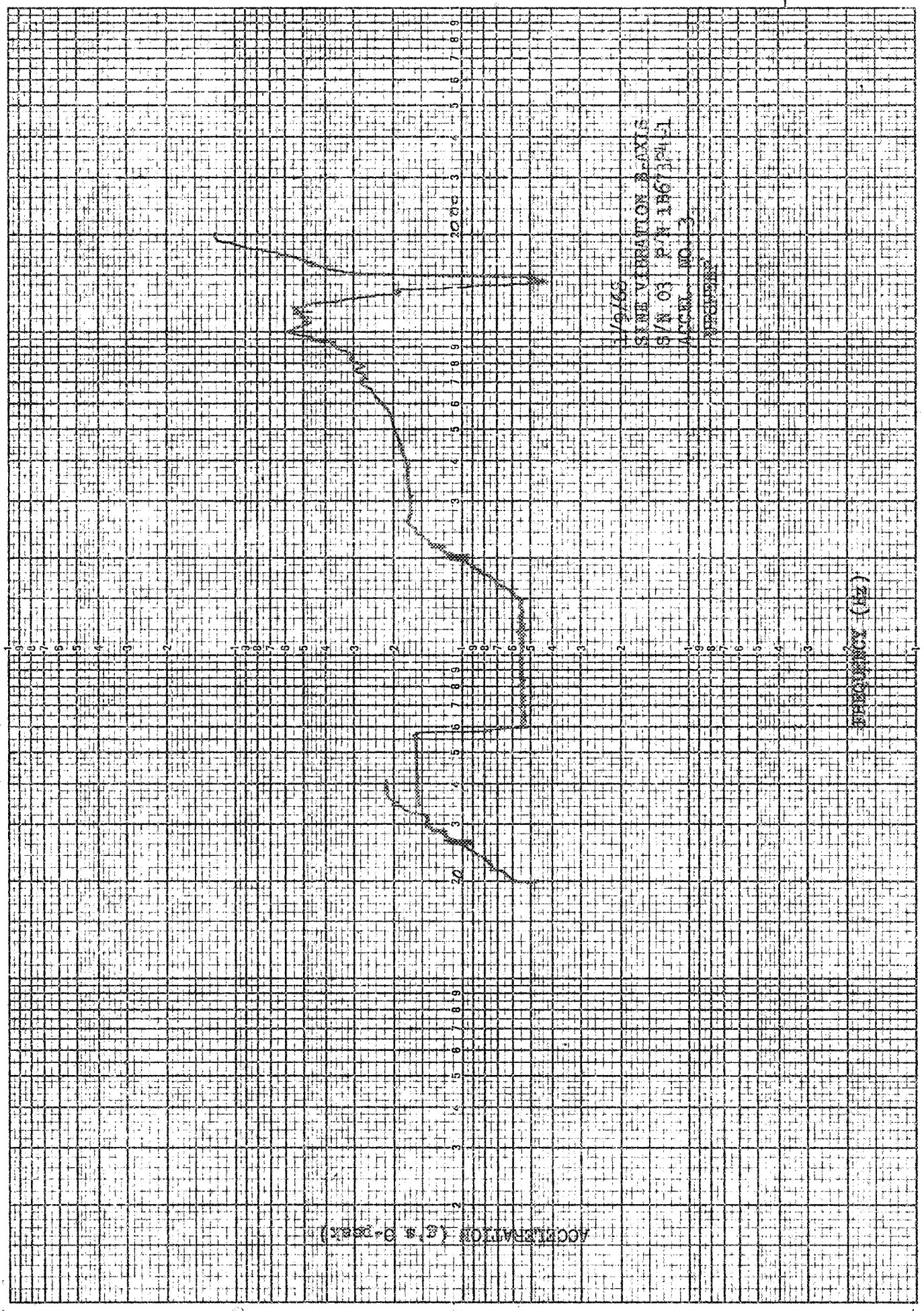
1/9/68


1/9/68
SINE VIBRATION A-AXIS
S/N 03 P/N 1B6T324-1
ACCEL. NO. 6
DOWNSHEET
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

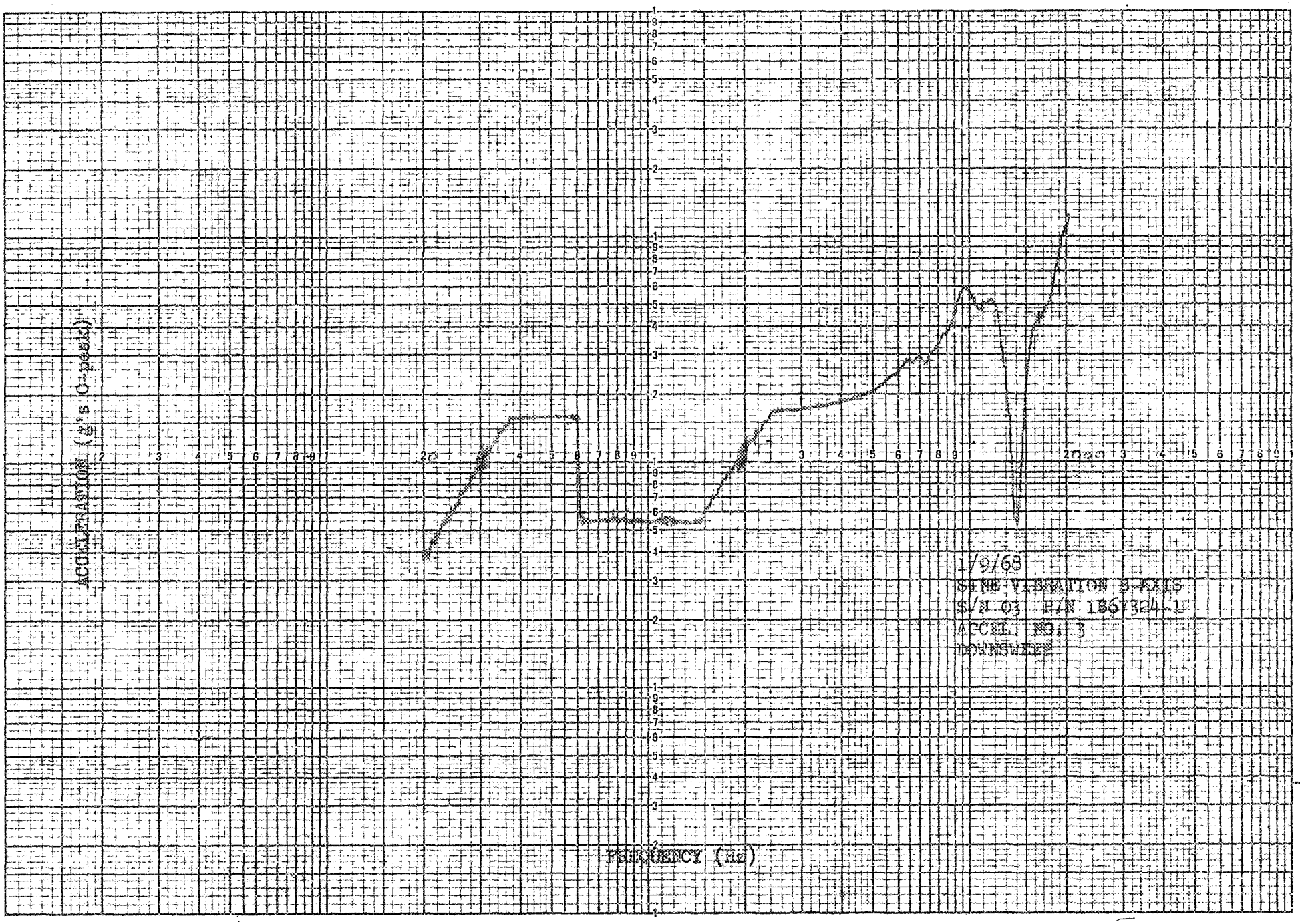

SINE VIBRATION R-AXIS
CONTROL ACCEL
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

11/9/68 SINE B AXIS DN

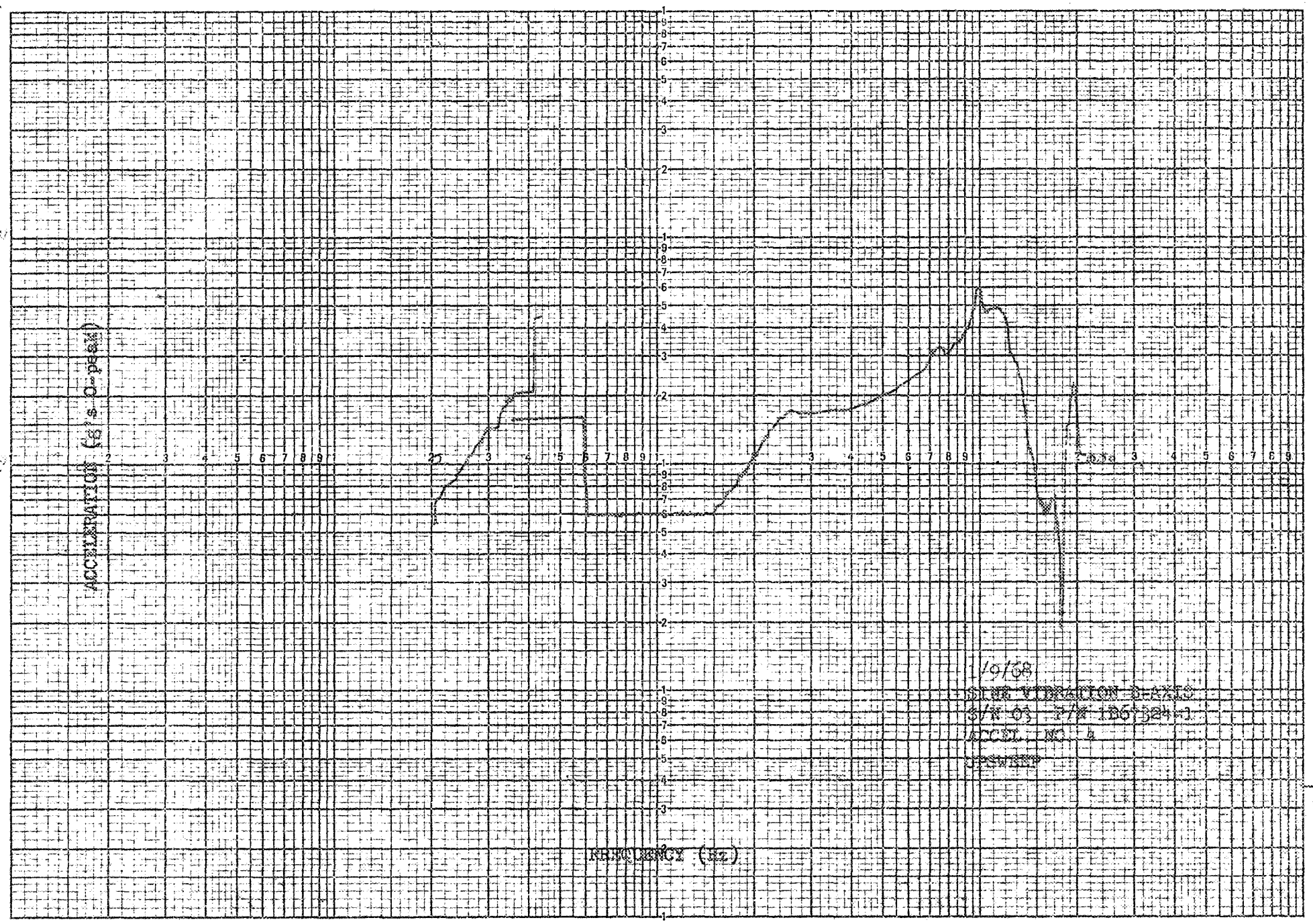


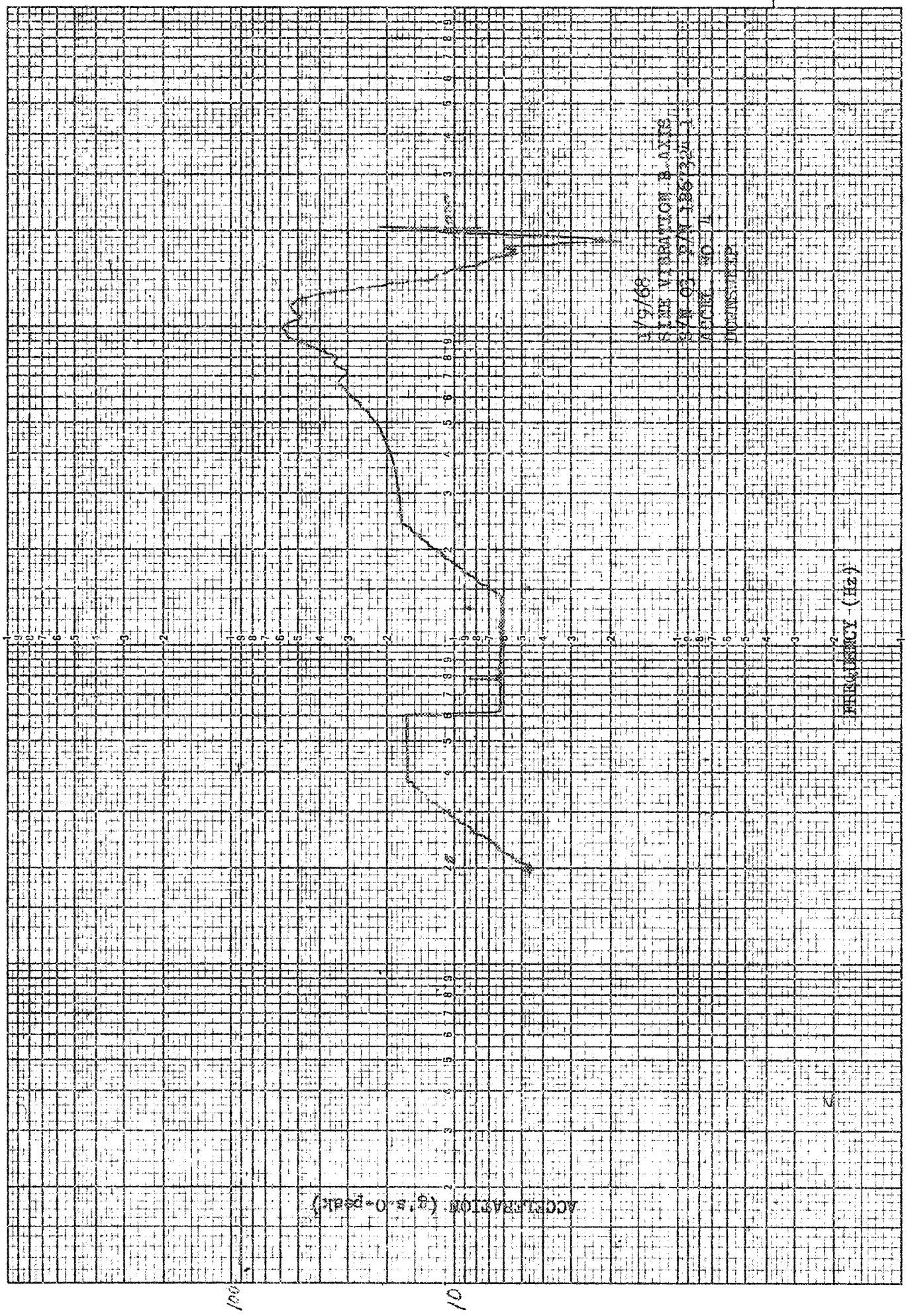

SINE VIBRATION B-AXIS
S/N 03 P/N 1B67394-1
ACCEL. NO. 3
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

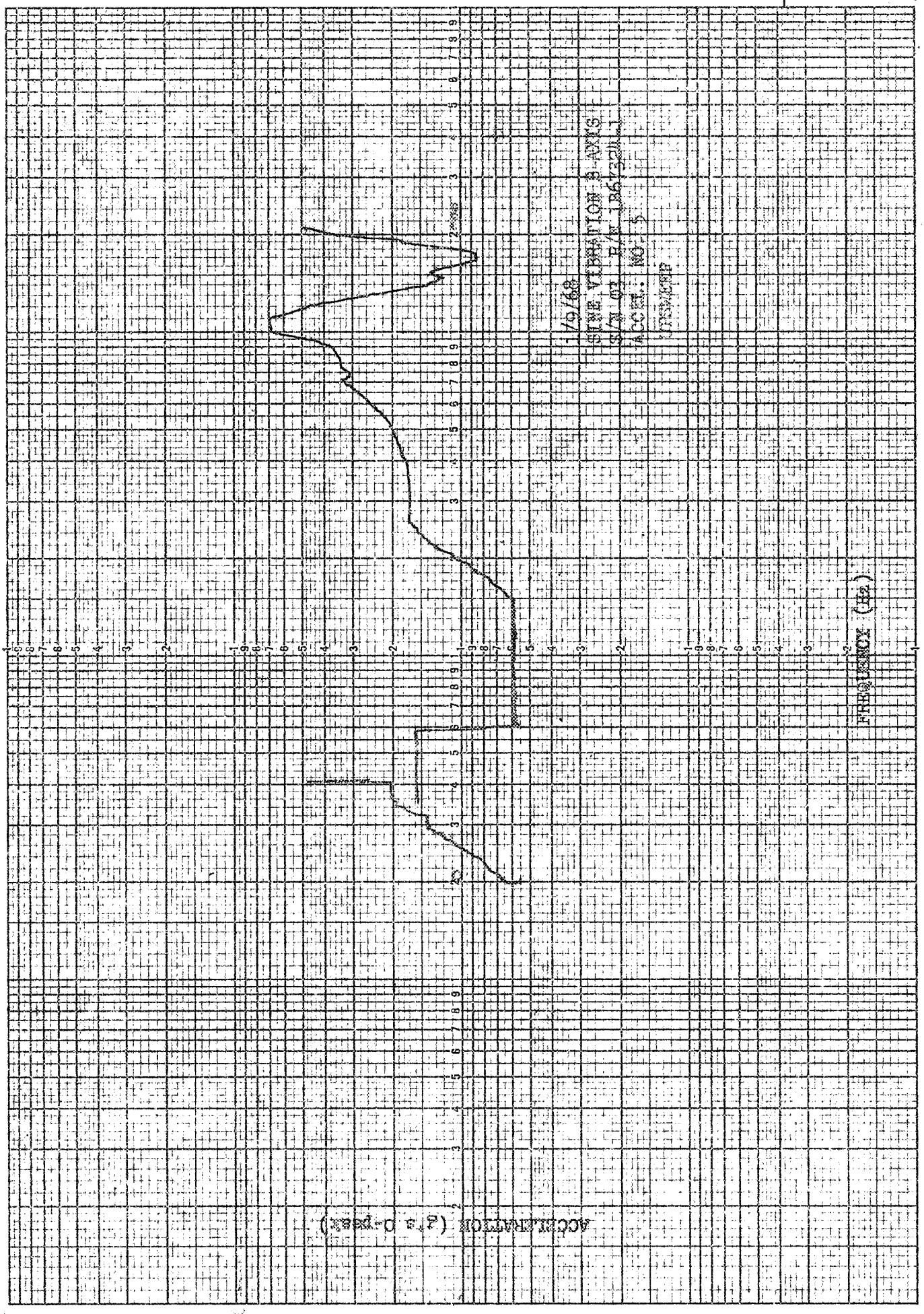
1/9/68


100
10
ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
1/9/68
SINE VIBRATION Z-AXIS
S/N 03 P/N 1B67324-1
ACCEL. NO. 3
DOWNWELL

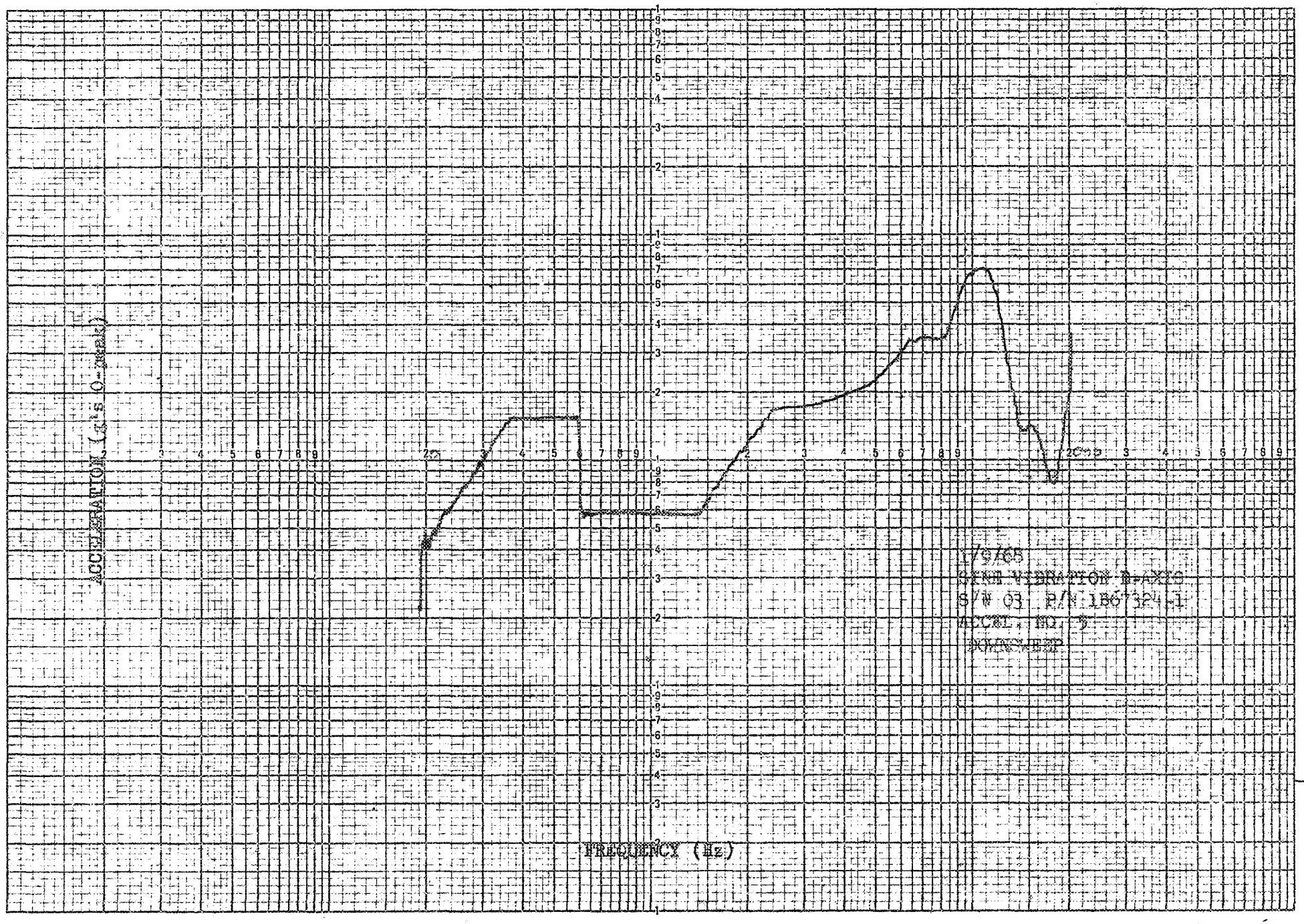
1/9/68 E axis up



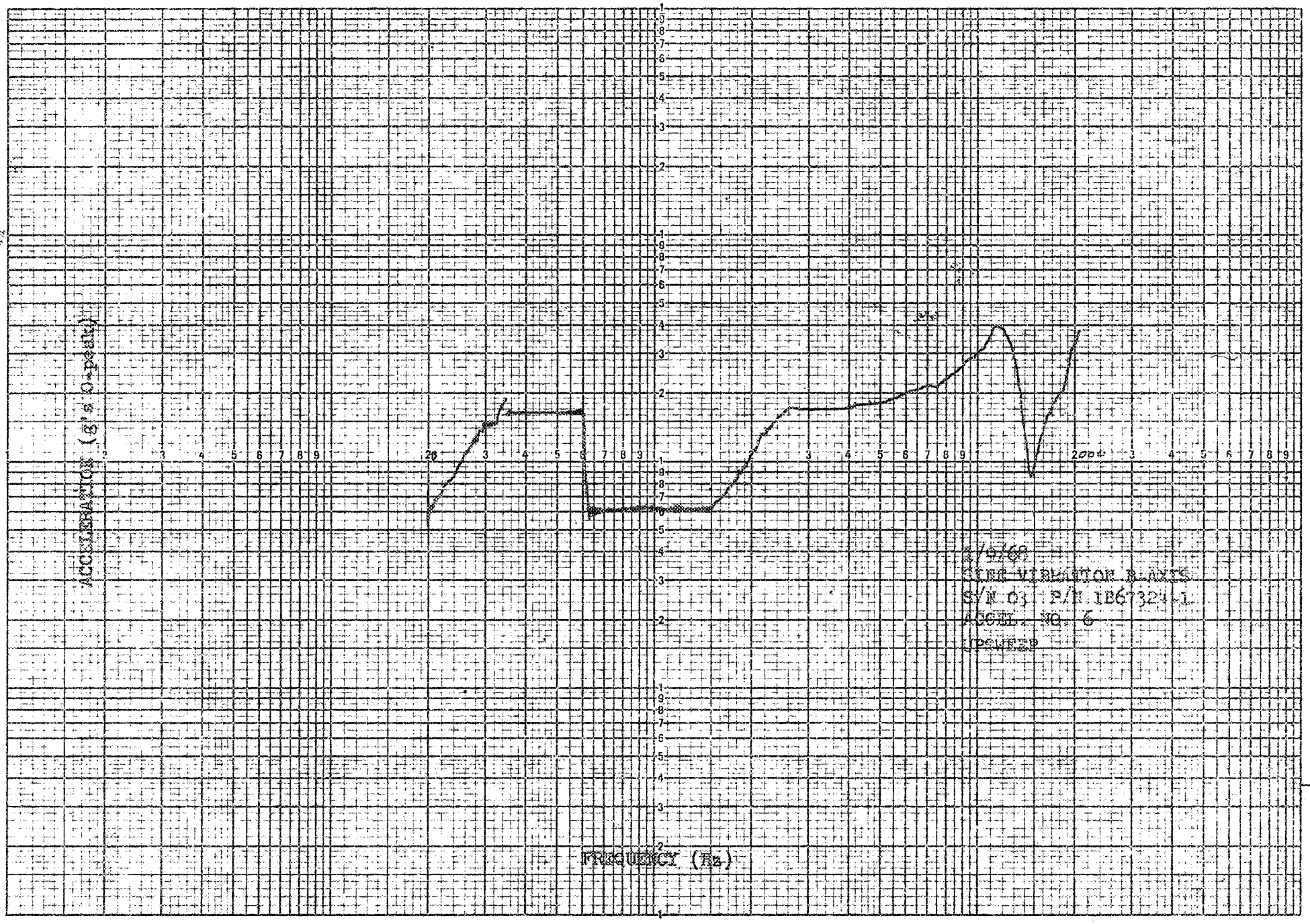

1/9/68
SINE VIBRATION B AXIS
ACCEL NO 4
DOWNSTRIP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)
100
10

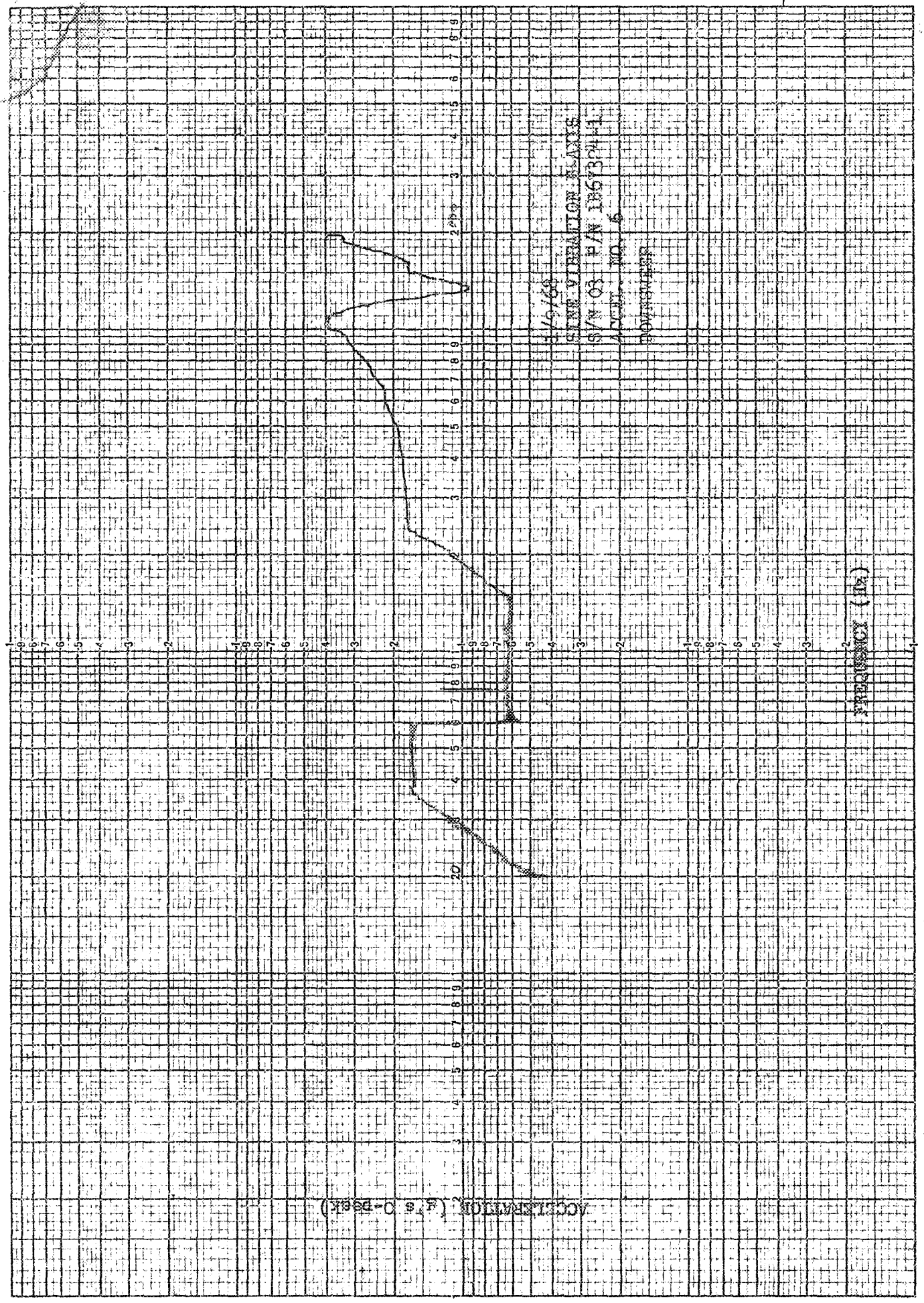

1/9/68
SINE VIBRATION B AXIS
S/N 03 P/N 1867324-1
ACCEL. NO. 5
UPSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

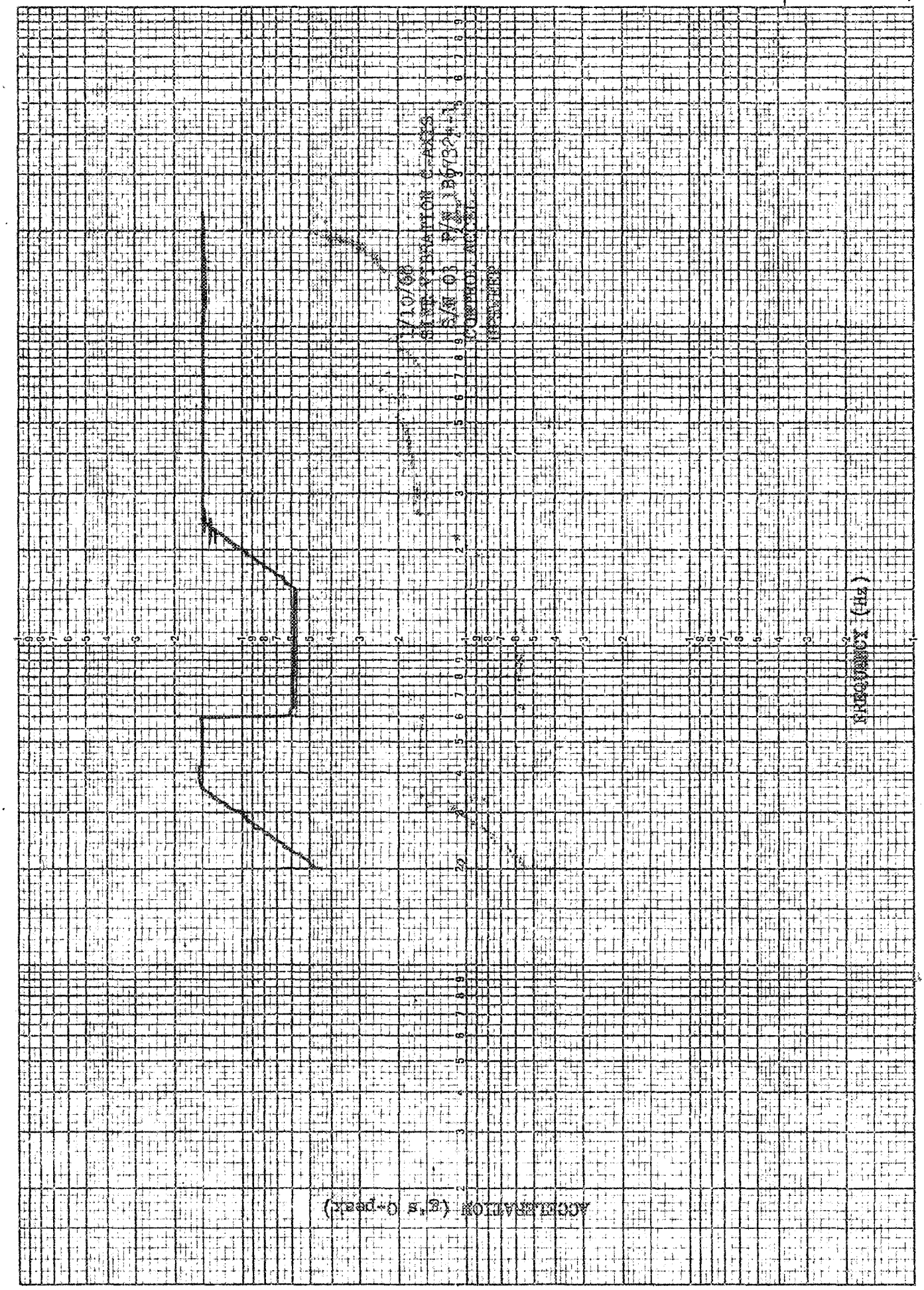
1/9/68 B AXIS


100
10
ACCELERATION (G's 0-peak)
FREQUENCY (Hz)
1/9/65
SPAR VIBRATION B-AXIS
S/N 03 P/N 1B67324-1
ACCEL. NO. 3
SWEEP

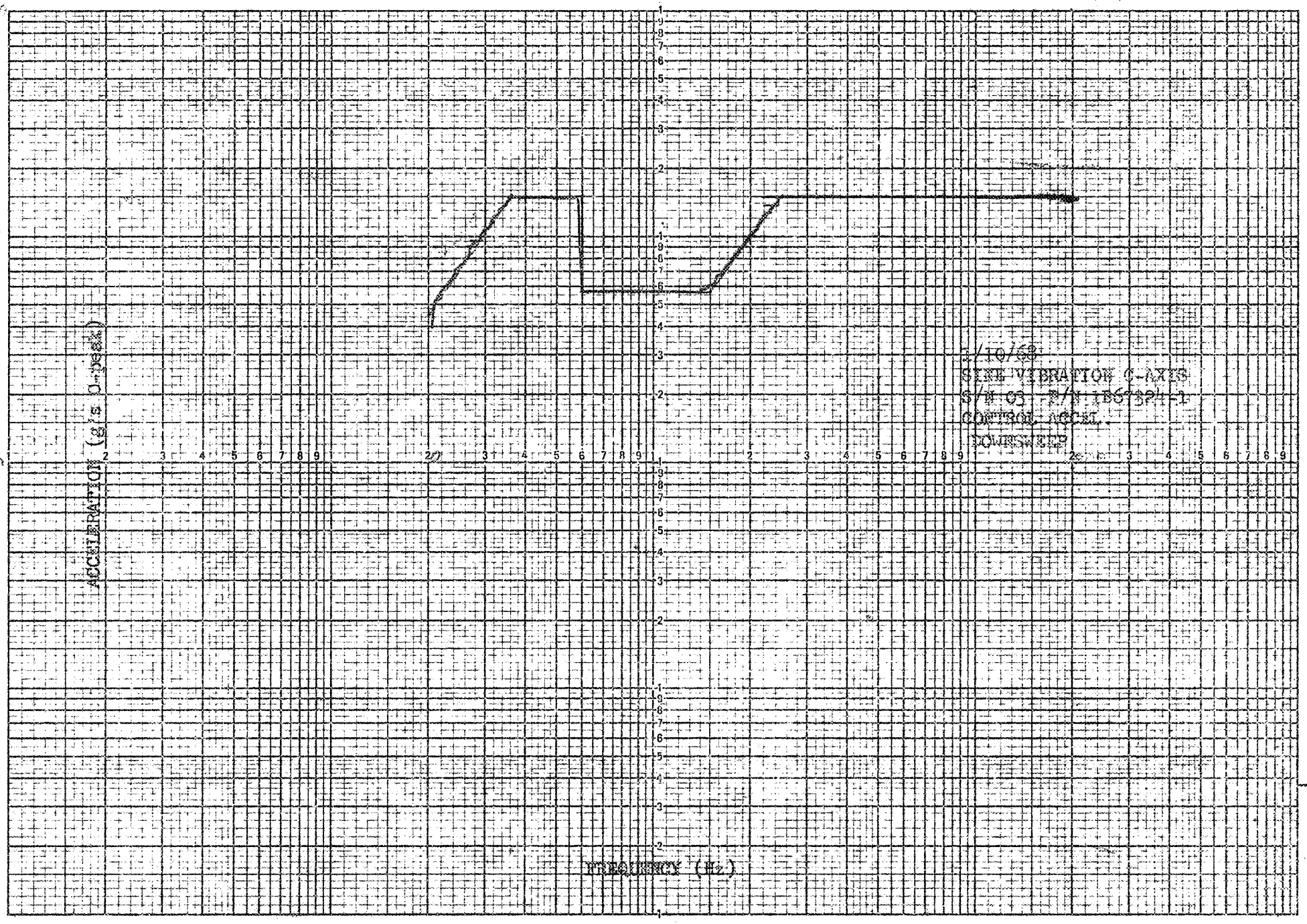
1/9/68 B AXIS

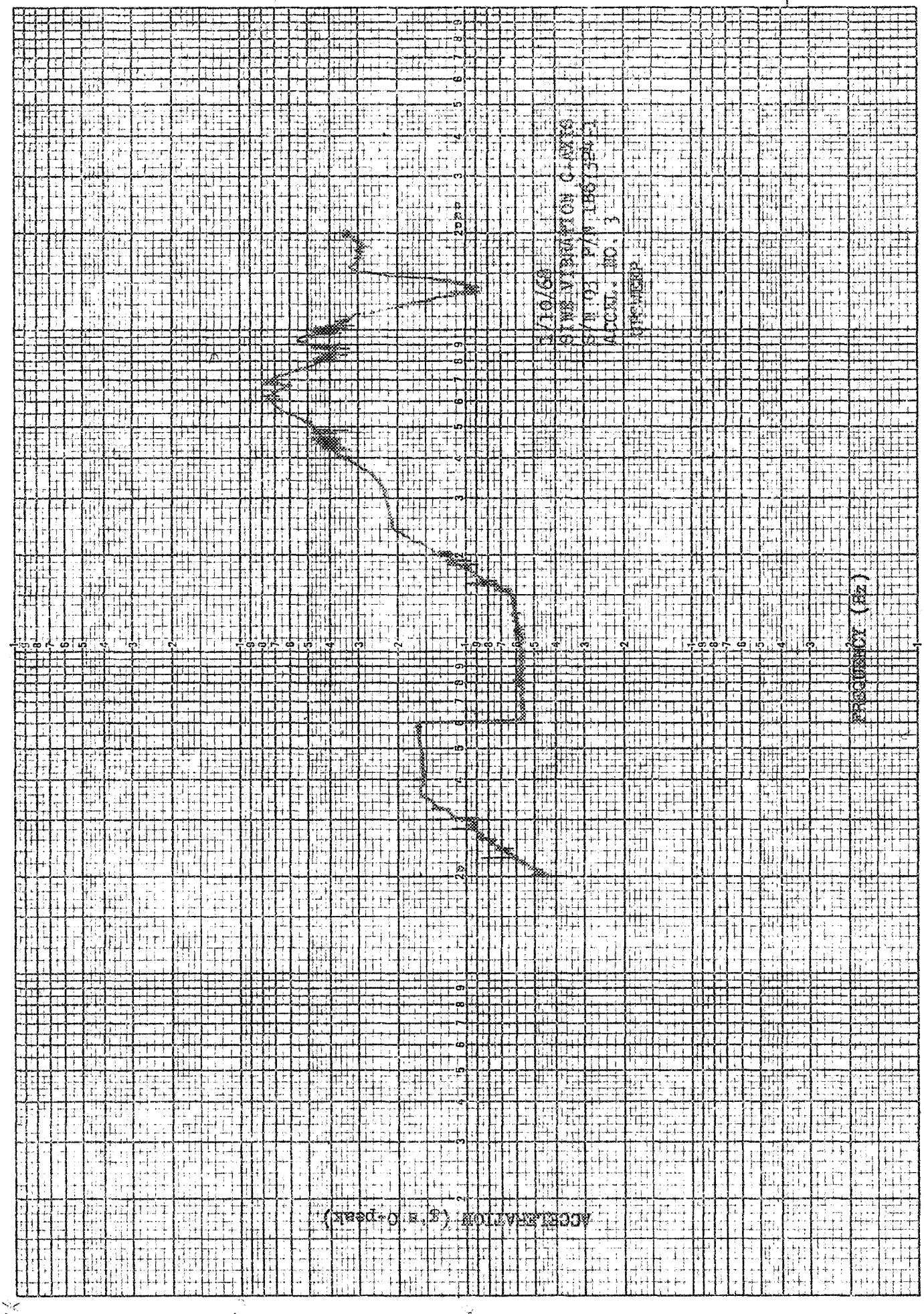

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
1/9/68
SINE-VIBRATION B-AXIS
S/N 03 P/N 1B673241-1
ACCEL. NO. 6
(POWERED)

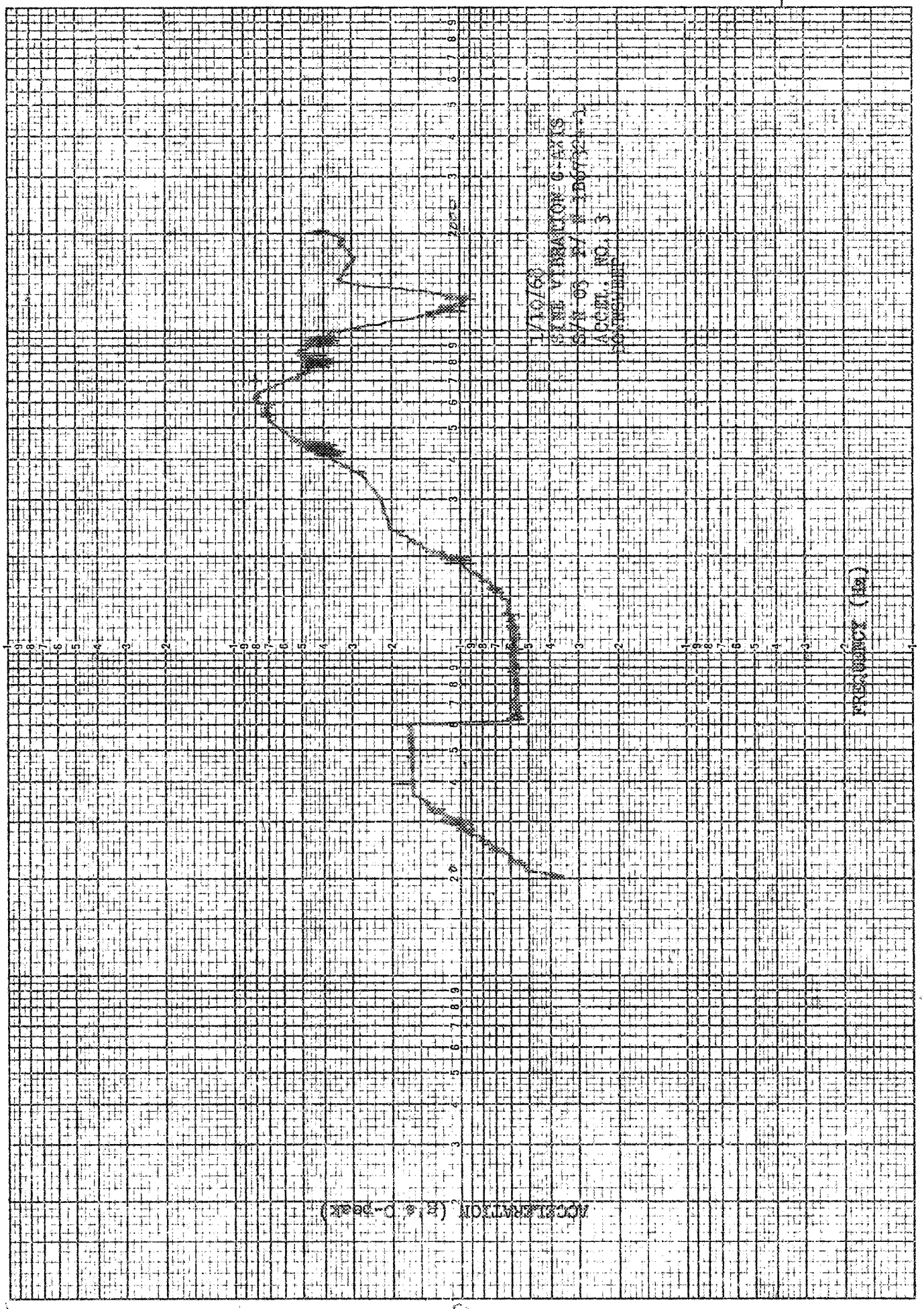

SINE VIBRATION RADIUS
S/N 03 P/N 1B67304-1
ACCEL. NO. 6
DOWNWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

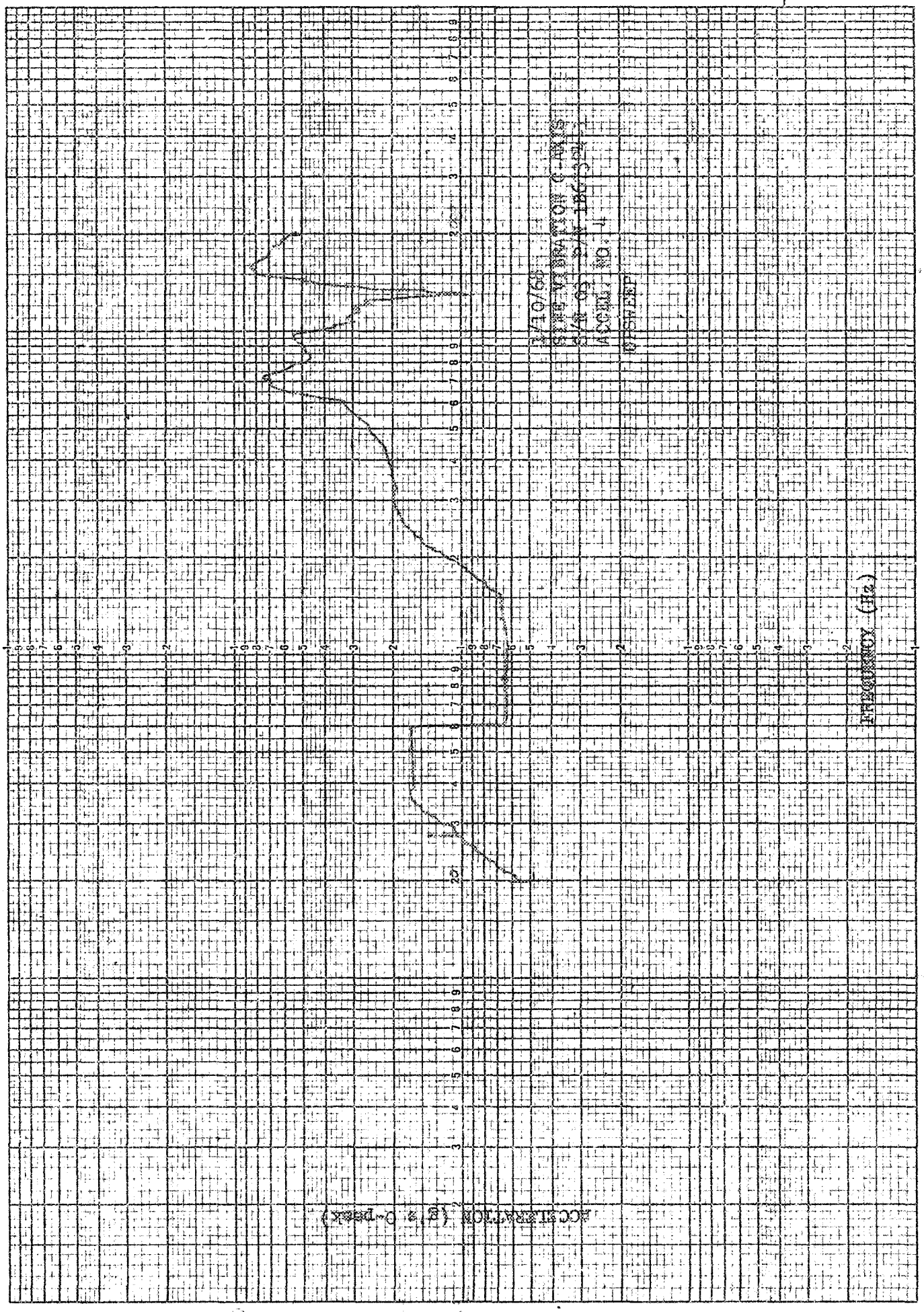

1/10/68
SINE VIBRATION C-AXIS
S/N 03 P/N 1B67324-1
CONTROL ACCEL
MESSENGER
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)
10
10

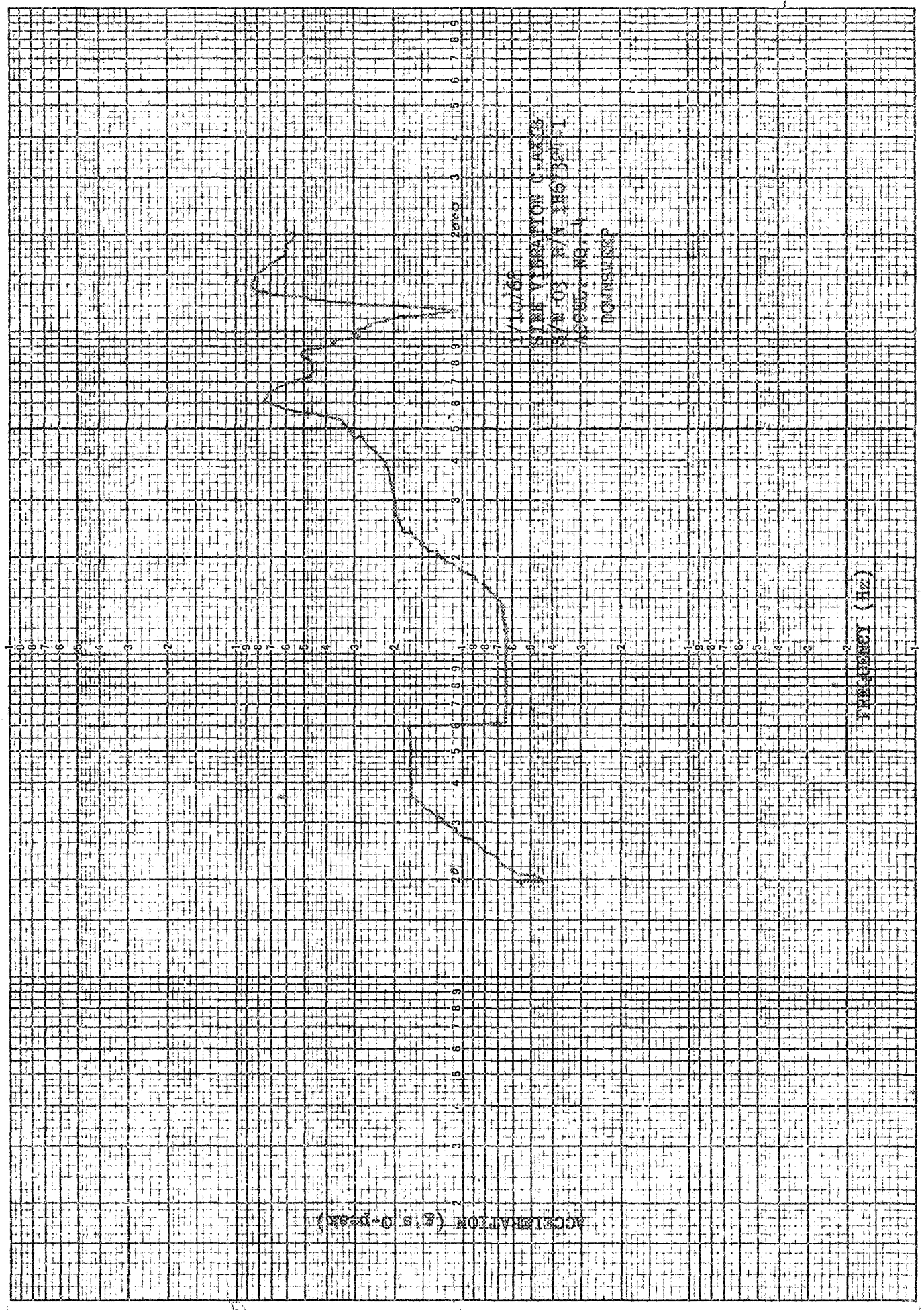
1/10/68 C AXIS DN

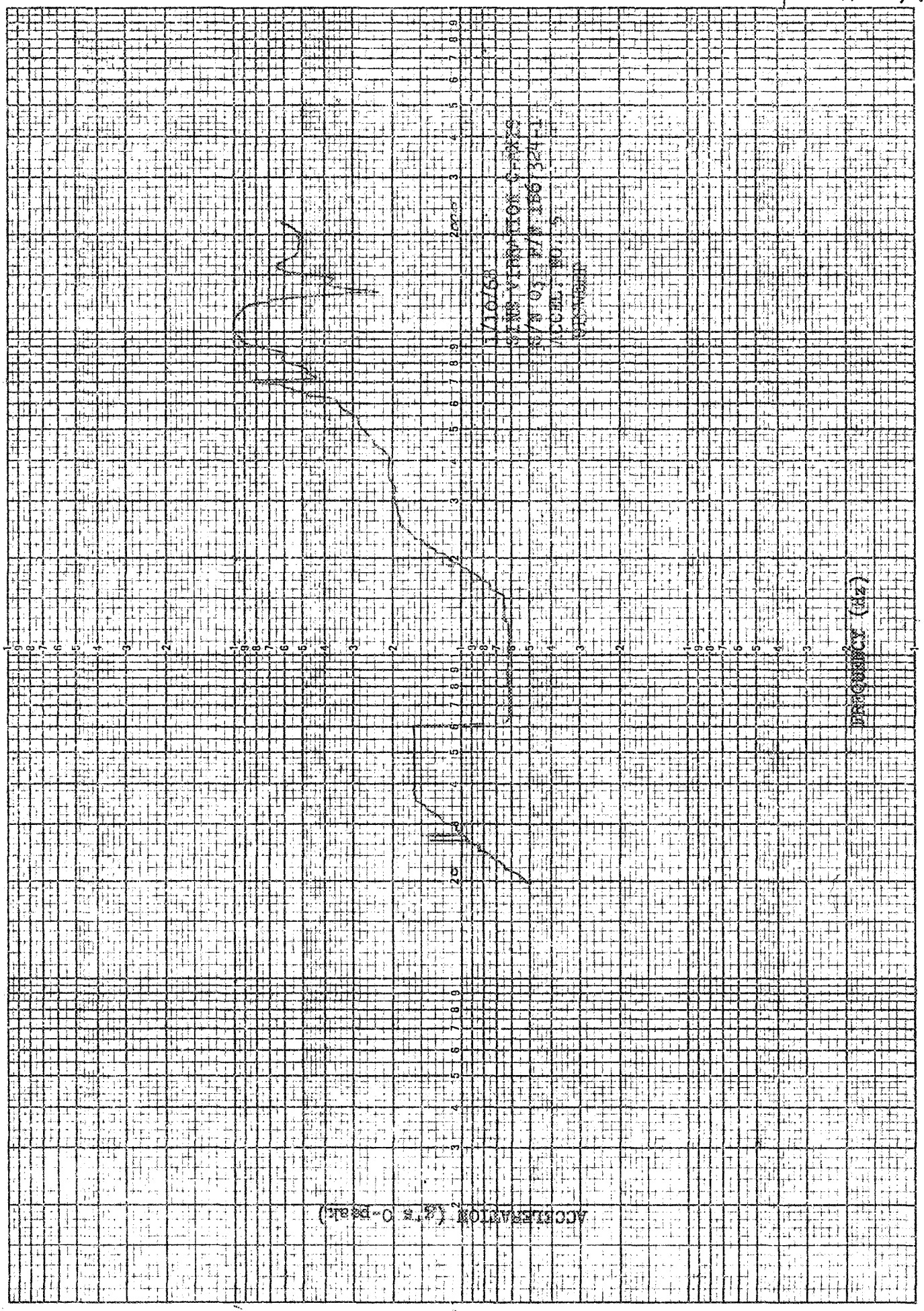


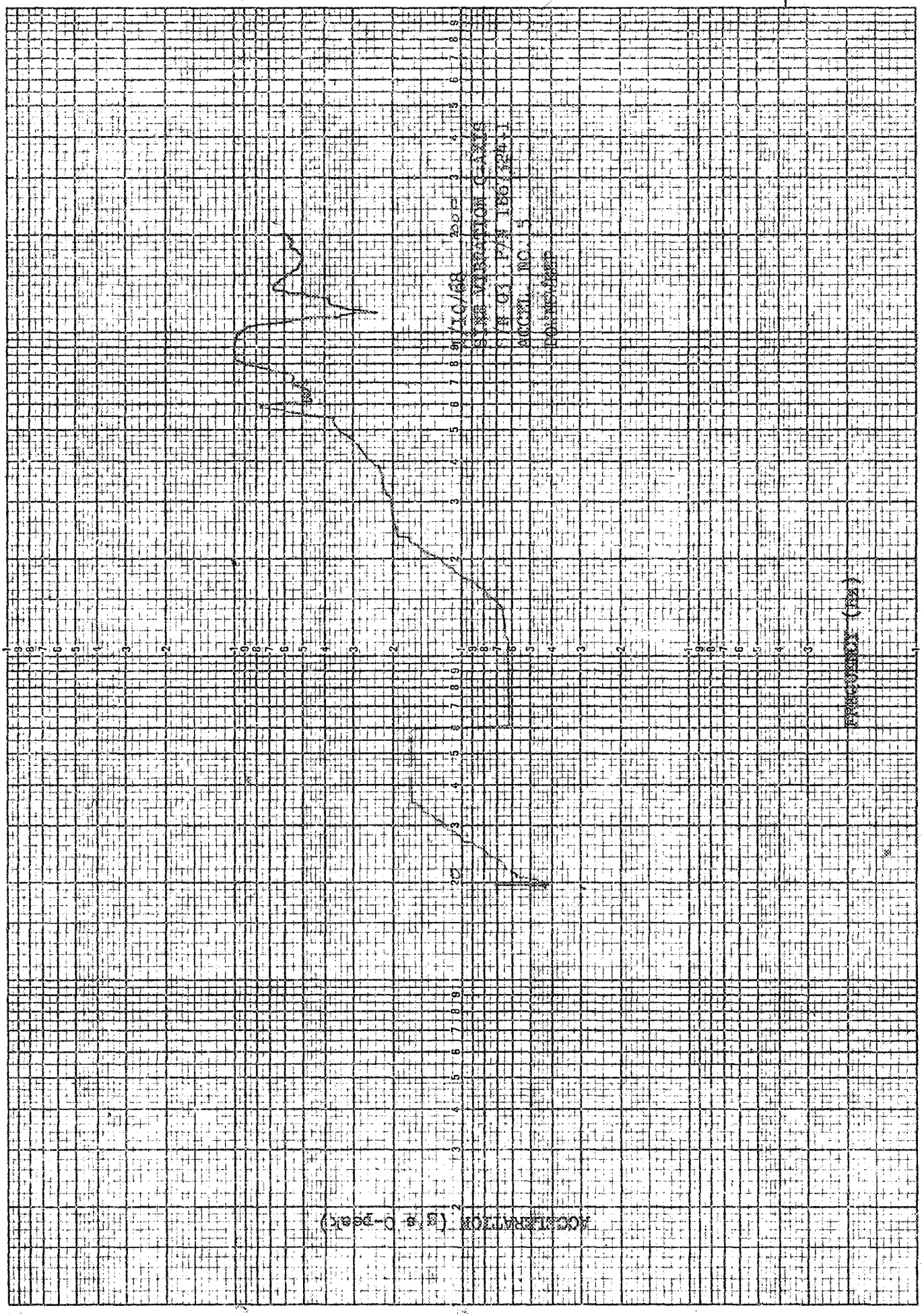

1/10/68
SINE VIBRATION C-AXIS
S/N 03 P/N 1B67324-1
ACCEL. NO. 3
UPSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

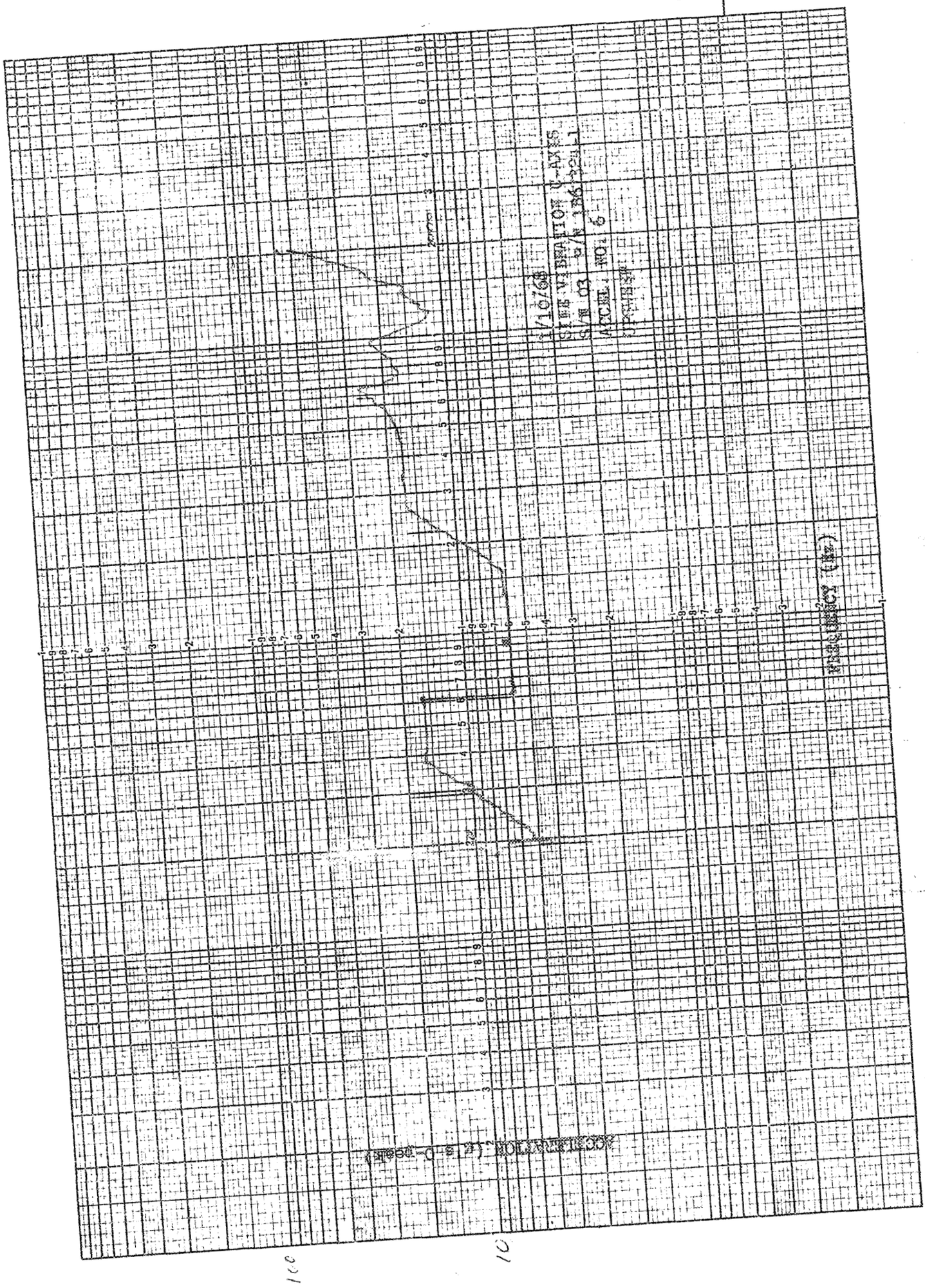

1/10/68
SINE VIBRATION G-AXIS
ACCEL. NO. 3
FREQUENCY (Hz)
ACCELERATION (g's D-peak)

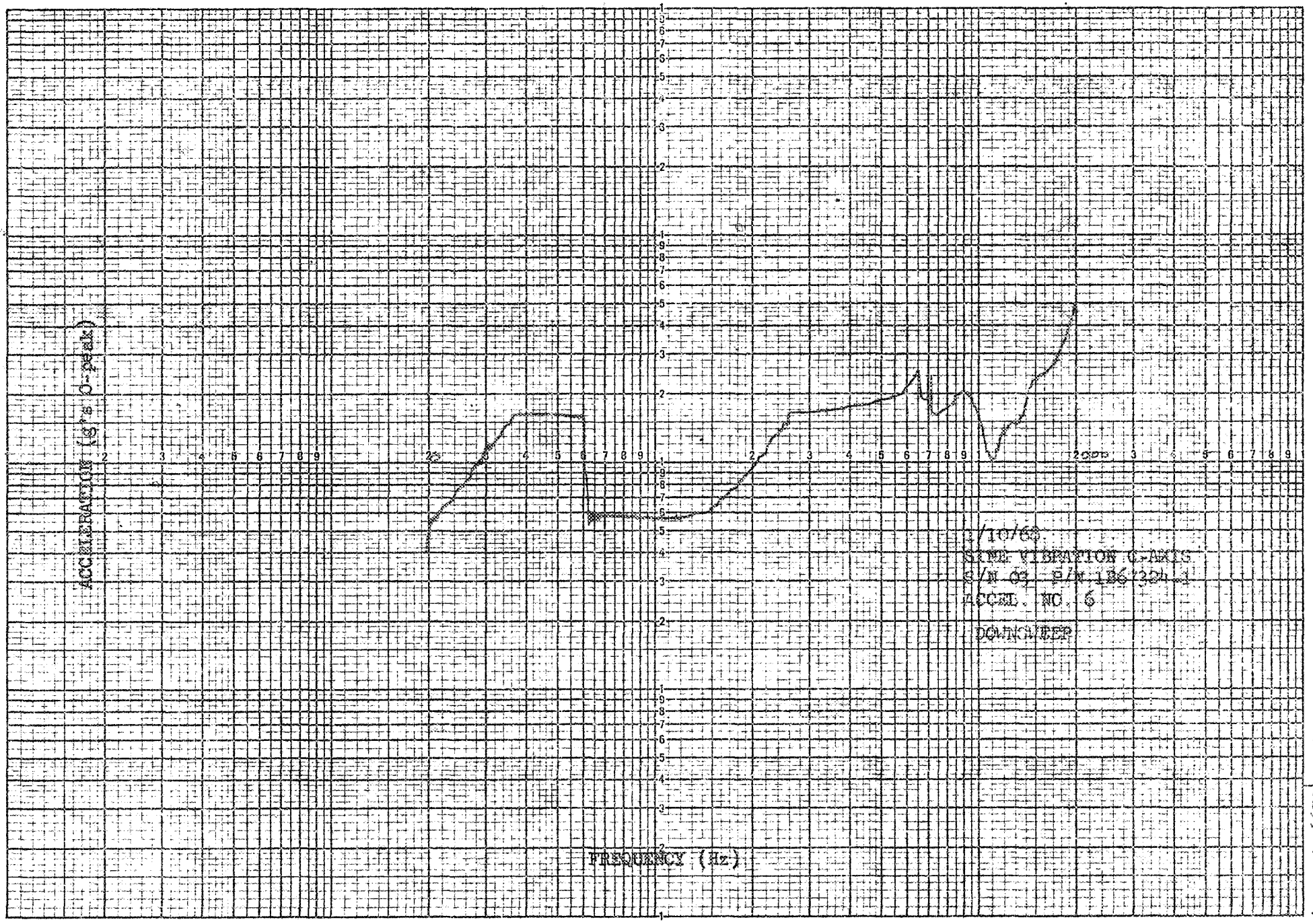

1/10/68
SINE VIBRATION C-AXIS
ACCEL. NO. 4
UPSWEEP
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

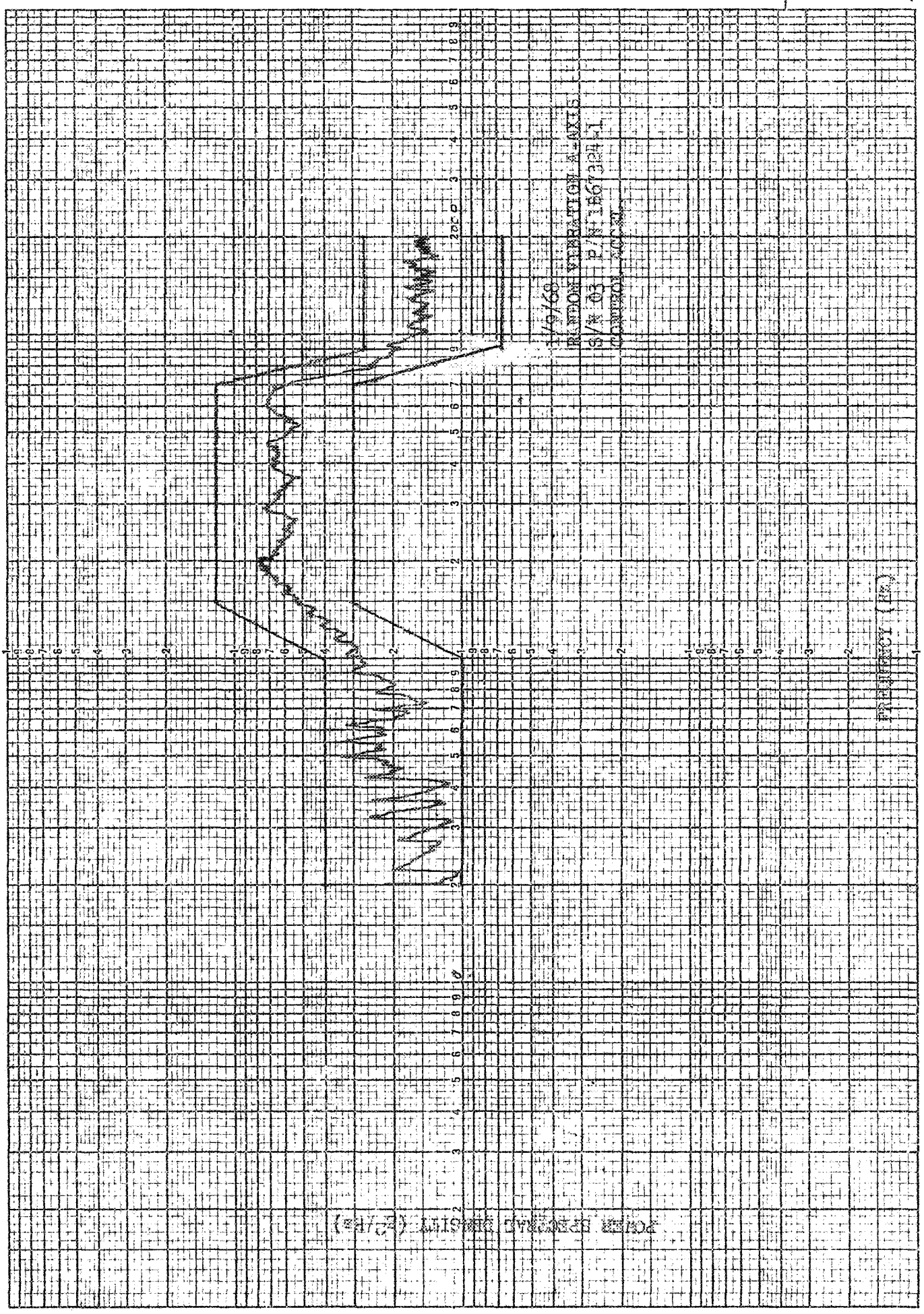

SINE VIBRATION C-AXIS
DOWNSTREAM
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

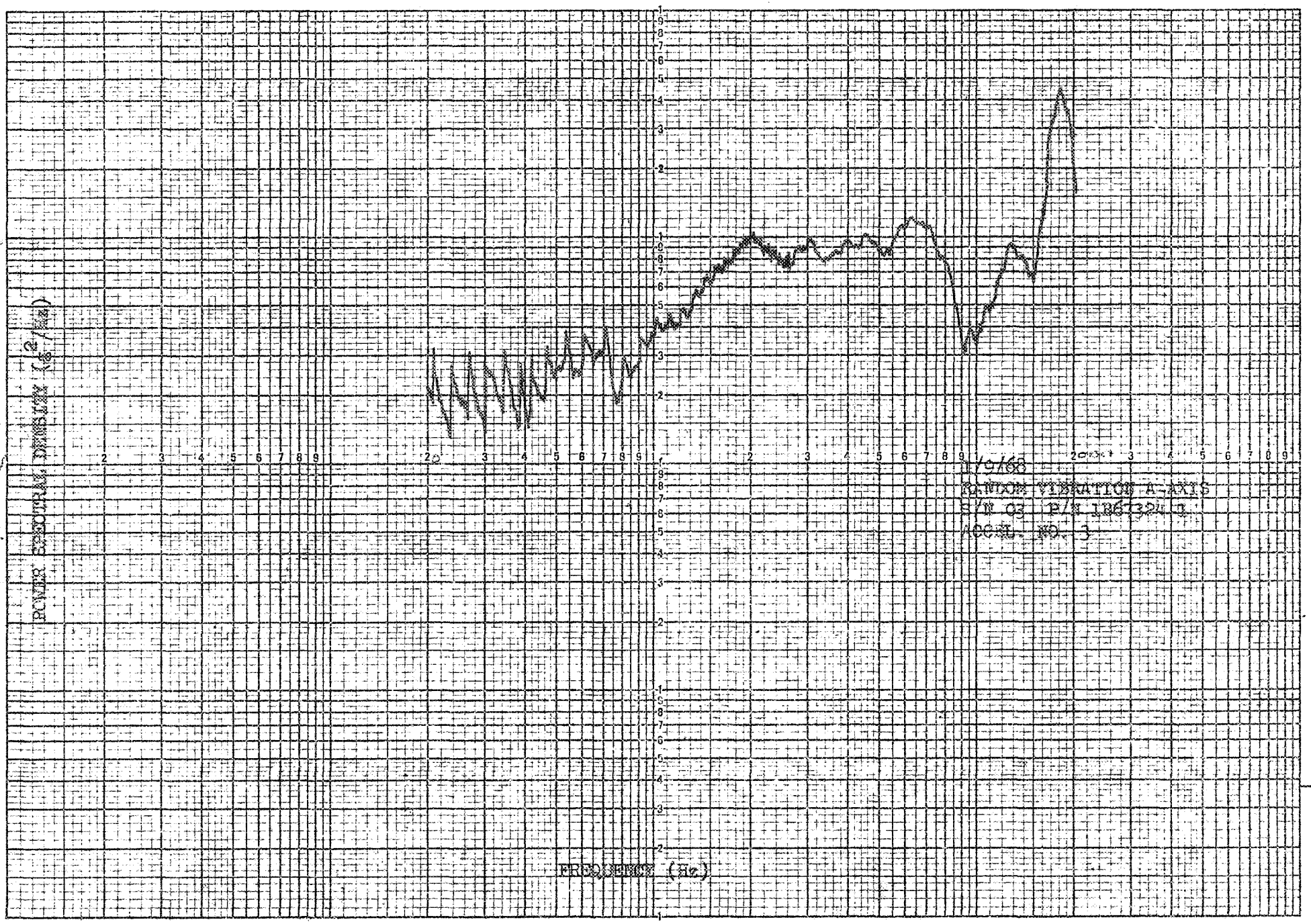

1/10/68
SINE VIBRATION C-AXIS
S/N 03 P/N 186324-1
ACCEL. NO. 5
FREQUENCY (Hz)
ACCELERATION (g's 0-peak)

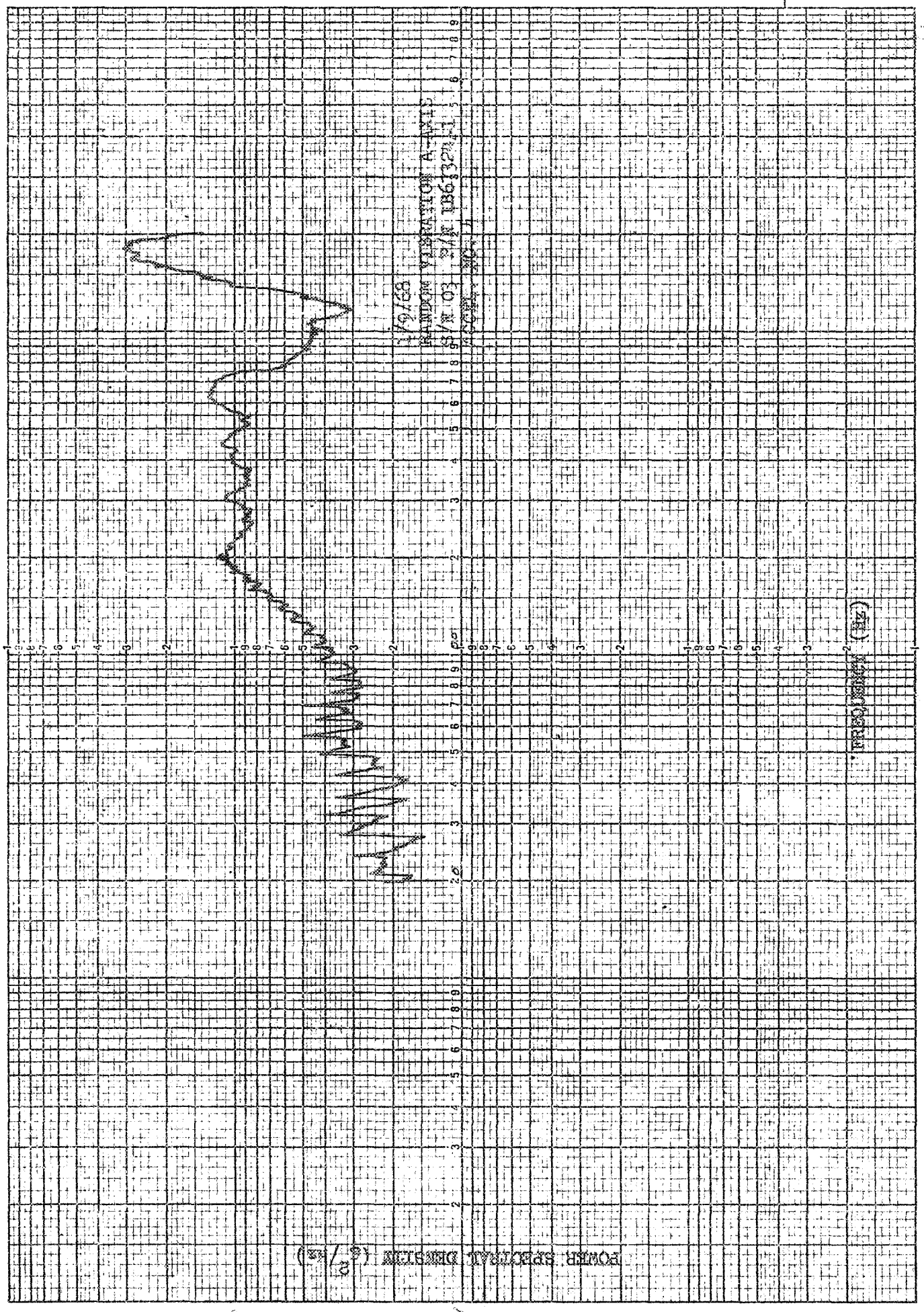

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)


1/10/68
SINE VIBRATION C-AXIS
S/N 03 P/N 186-324-1
ACCEL. NO. 6
UPSWEEP
FREQUENCY (Hz)
ACCELERATION (g's D-peak)
100
10

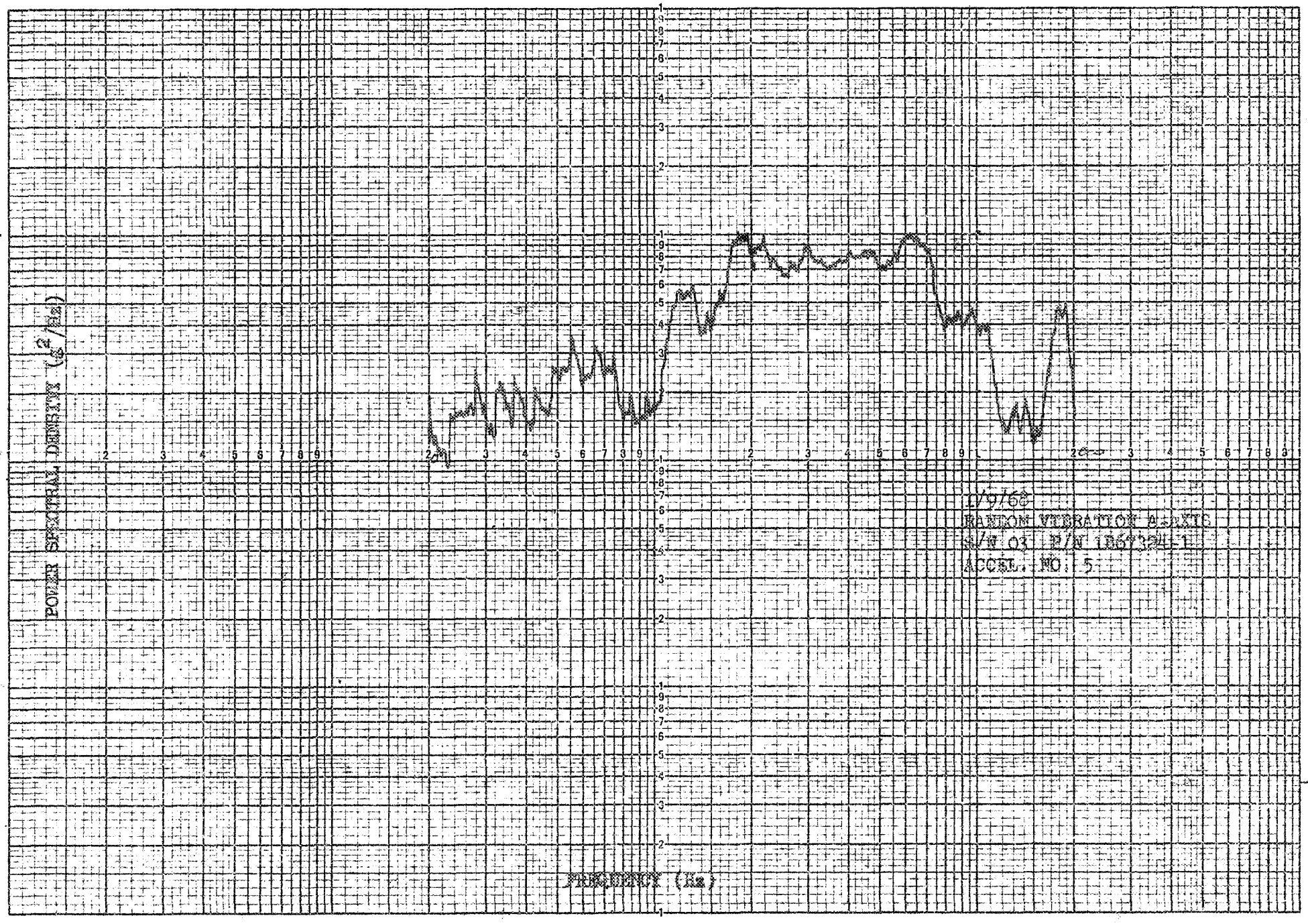

ACCELERATION (g's 0-peak)
FREQUENCY (Hz)
3/10/68
SINE VIBRATION C-AXIS
S/N 03 P/N 136324-1
ACCEL. NO. 6
DOWNSWEEP

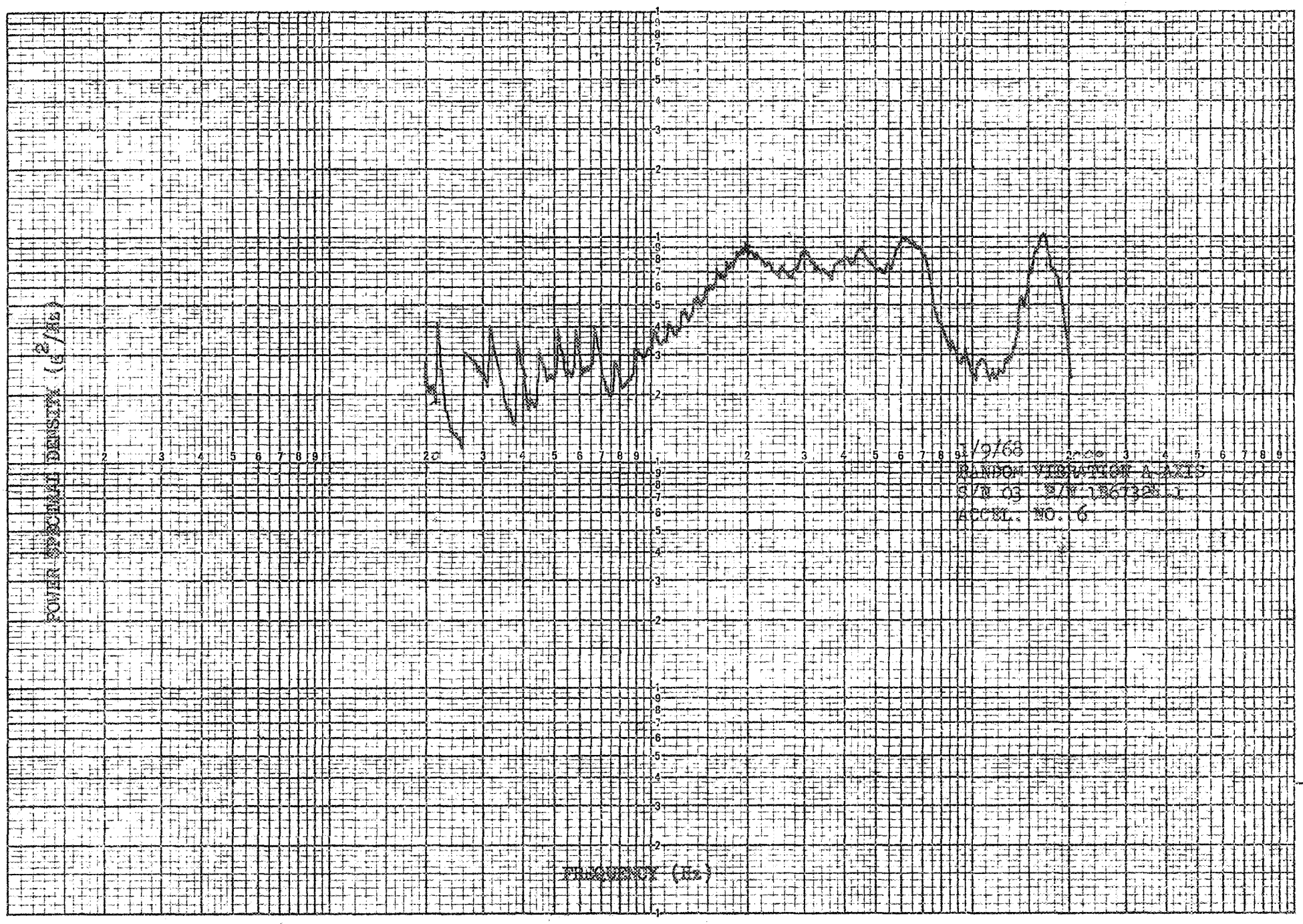

1/9/68
RANDOM VIBRATION A-AXIS
S/N 03 P/N 1B67324-1
CONTROL ACCEL
FREQUENCY (Hz)
POWER SPECTRAL DENSITY (g²/Hz)

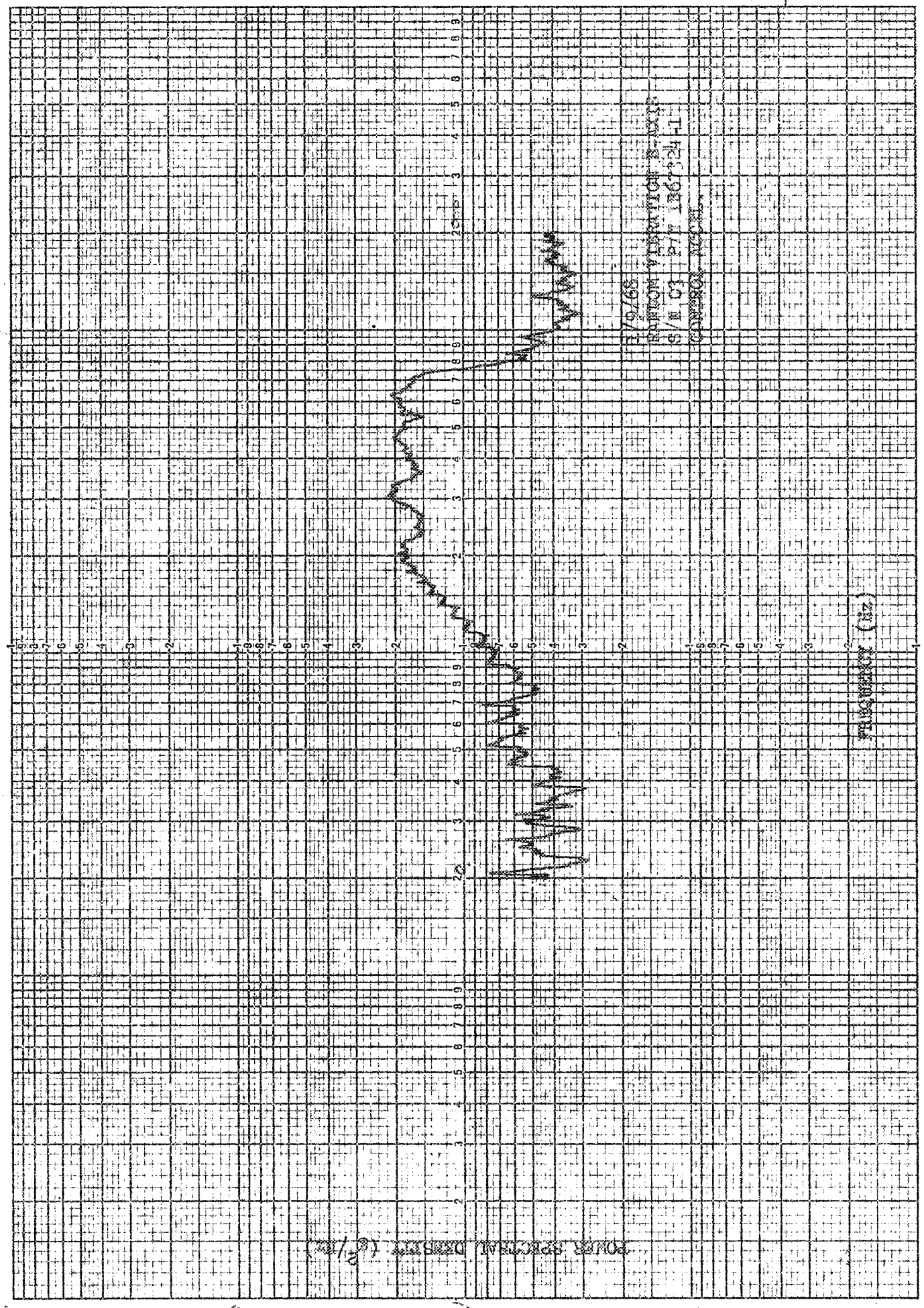

POWER SPECTRAL DENSITY (G²/Hz)
FREQUENCY (Hz)
RANDOM VIBRATION A-AXIS
S/N 03 P/N 1867324-2
ACCEL. NO. 3

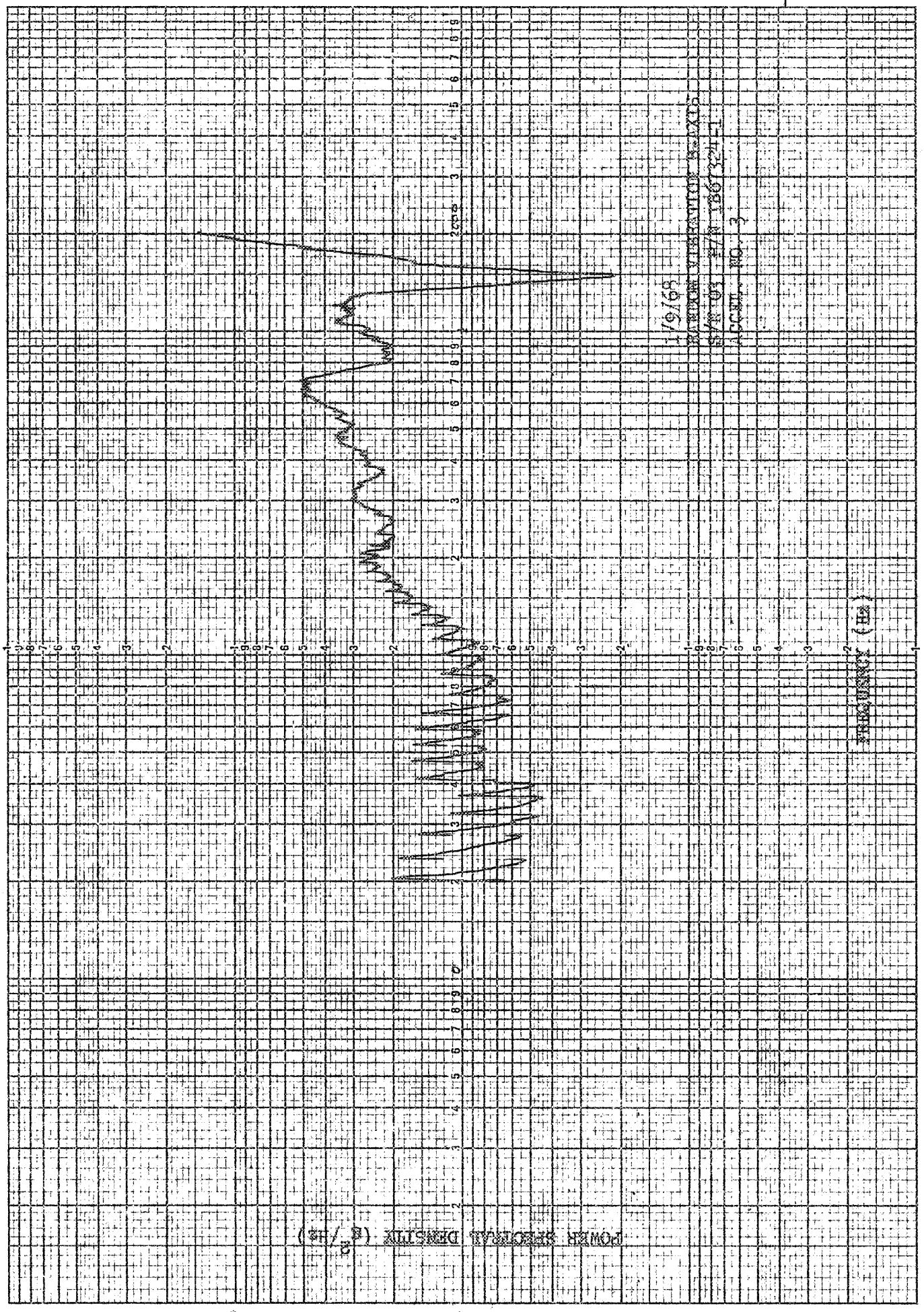

1/9/68
RANDOM VIBRATION A-AXIS
S/N 03 P/N 1B6132
ACCEL. NO. 4
FREQUENCY (Hz)
POWER SPECTRAL DENSITY (g²/Hz)

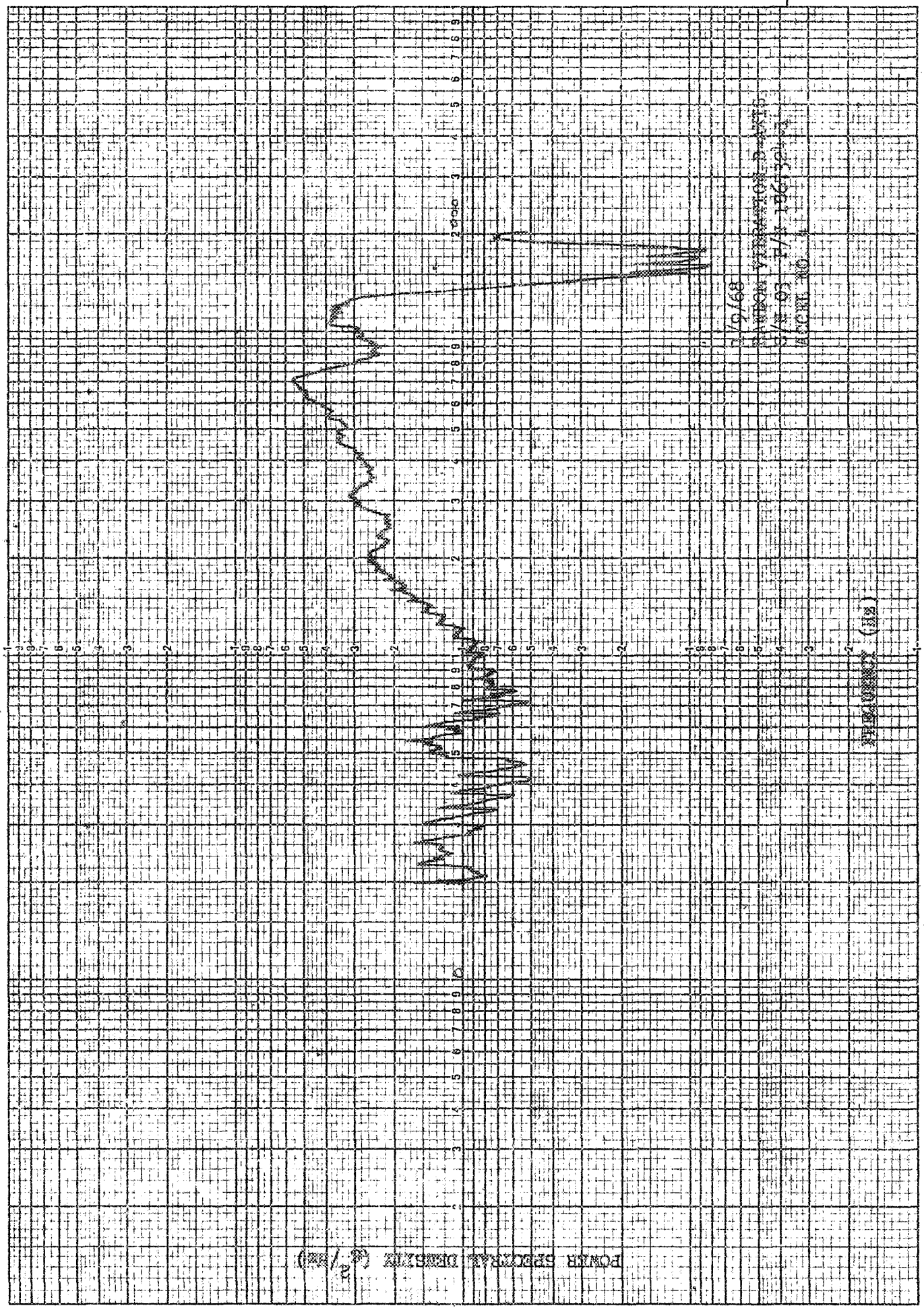
1/9/68 RANDOM A AXIS



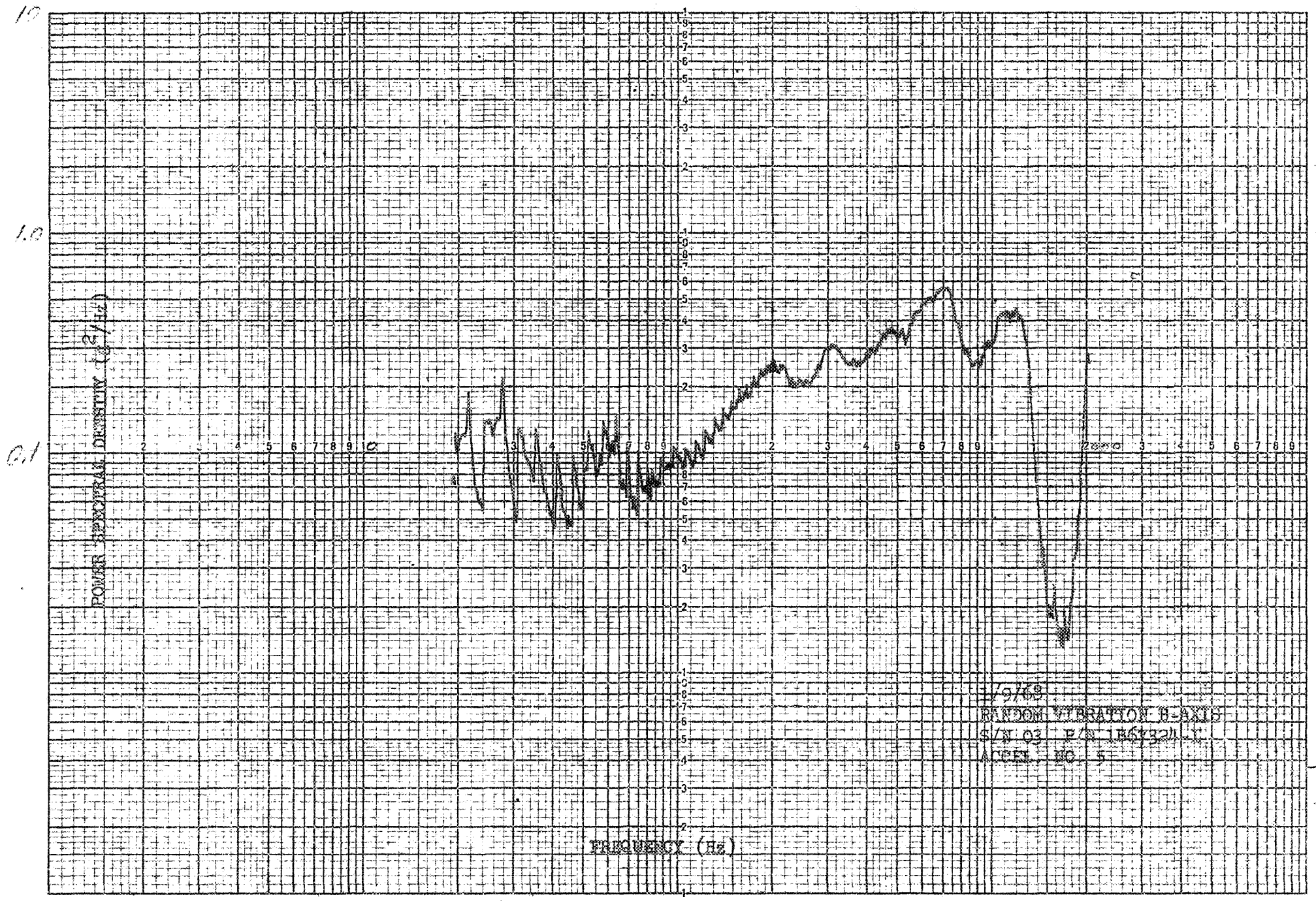

POWER SPECTRAL DENSITY (g²/Hz)
FREQUENCY (Hz)
1/9/68
RANDOM VIBRATION A-AXIS
S/N 03 S/N 136732
ACCEL. NO. 6


RANDOM VIBRATION B-AXIS
S/N C3 P/N 1367324-1
CONTROL ACCEL.
FREQUENCY (Hz)
POWER SPECTRAL DENSITY (g²/Hz)

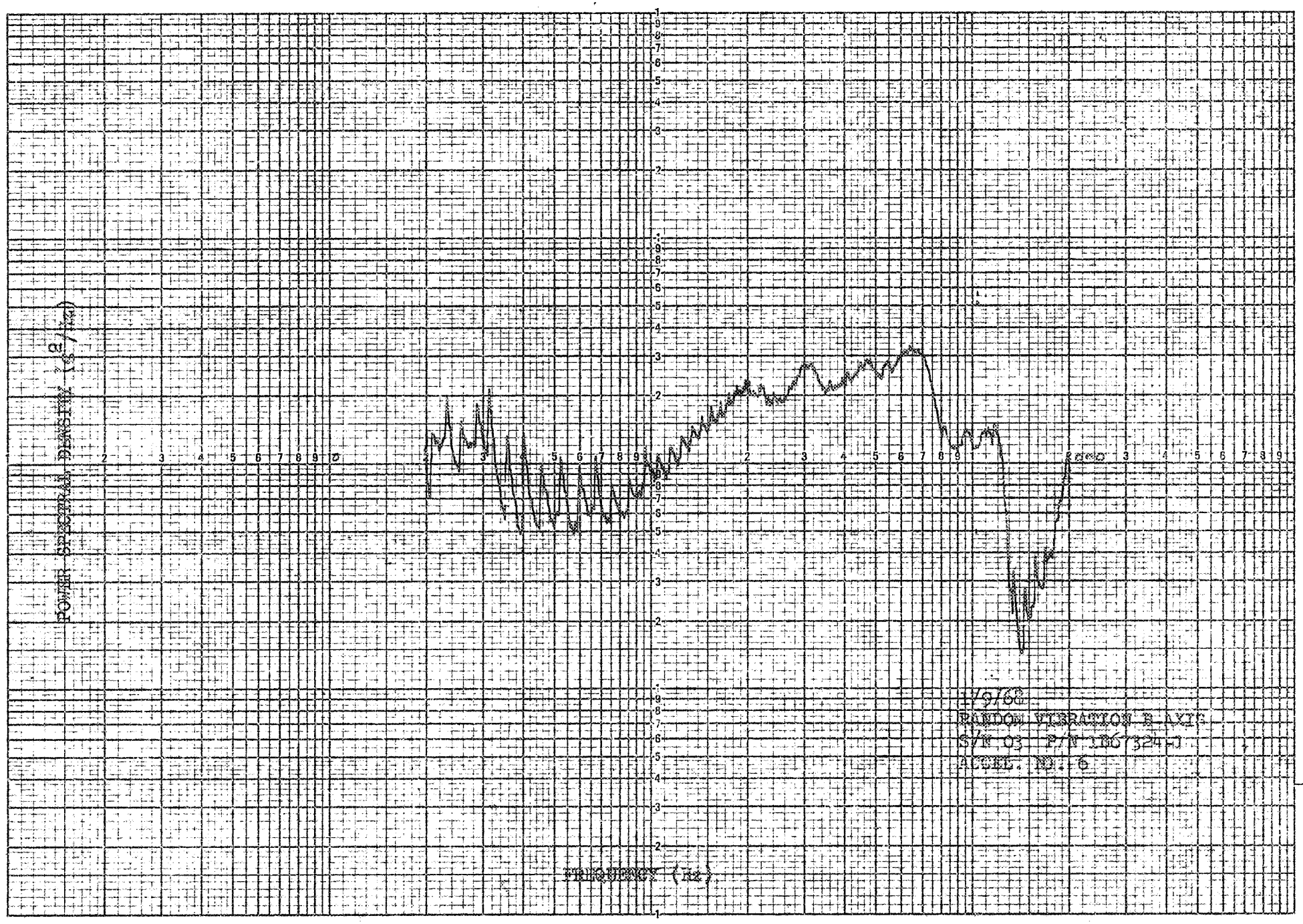

1/9/68
ACCEL. NO. 3
FREQUENCY (Hz)
POWER SPECTRAL DENSITY (g²/Hz)

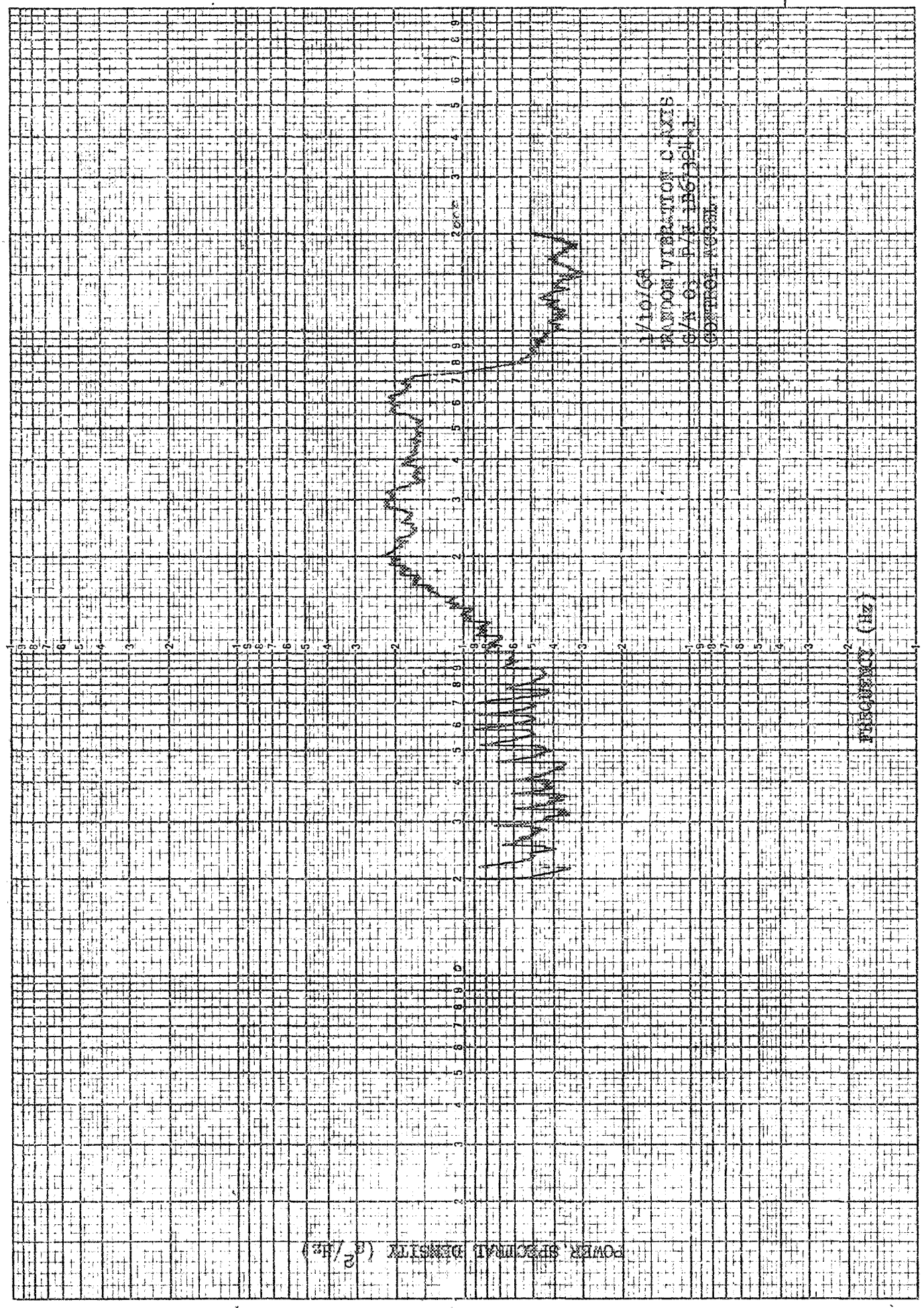

POWER SPECTRAL DENSITY (g²/Hz)
FREQUENCY (Hz)
1.0
0.1

11916 RANDOM B AXIS

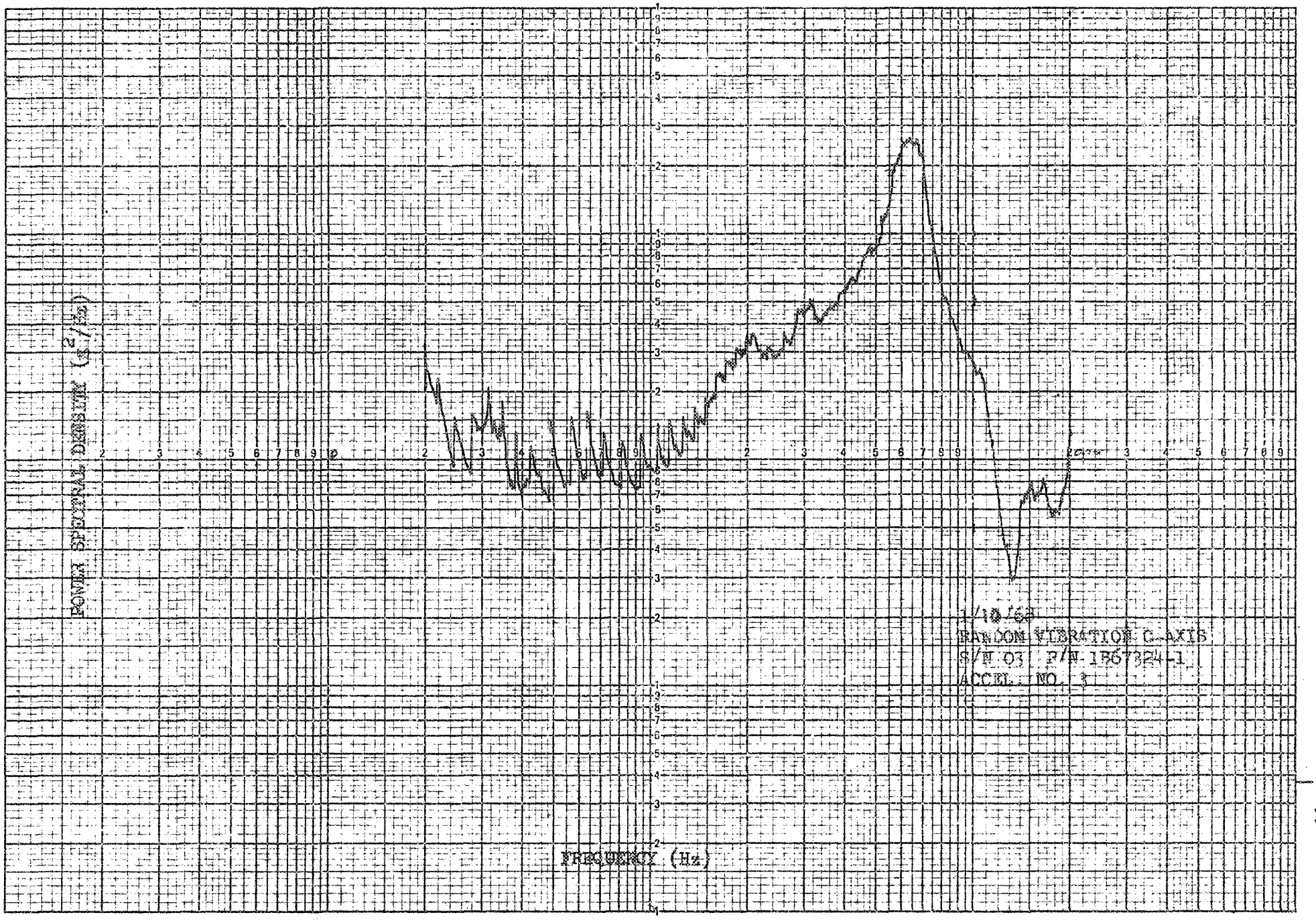


1/9/68 RANDOM SCAN

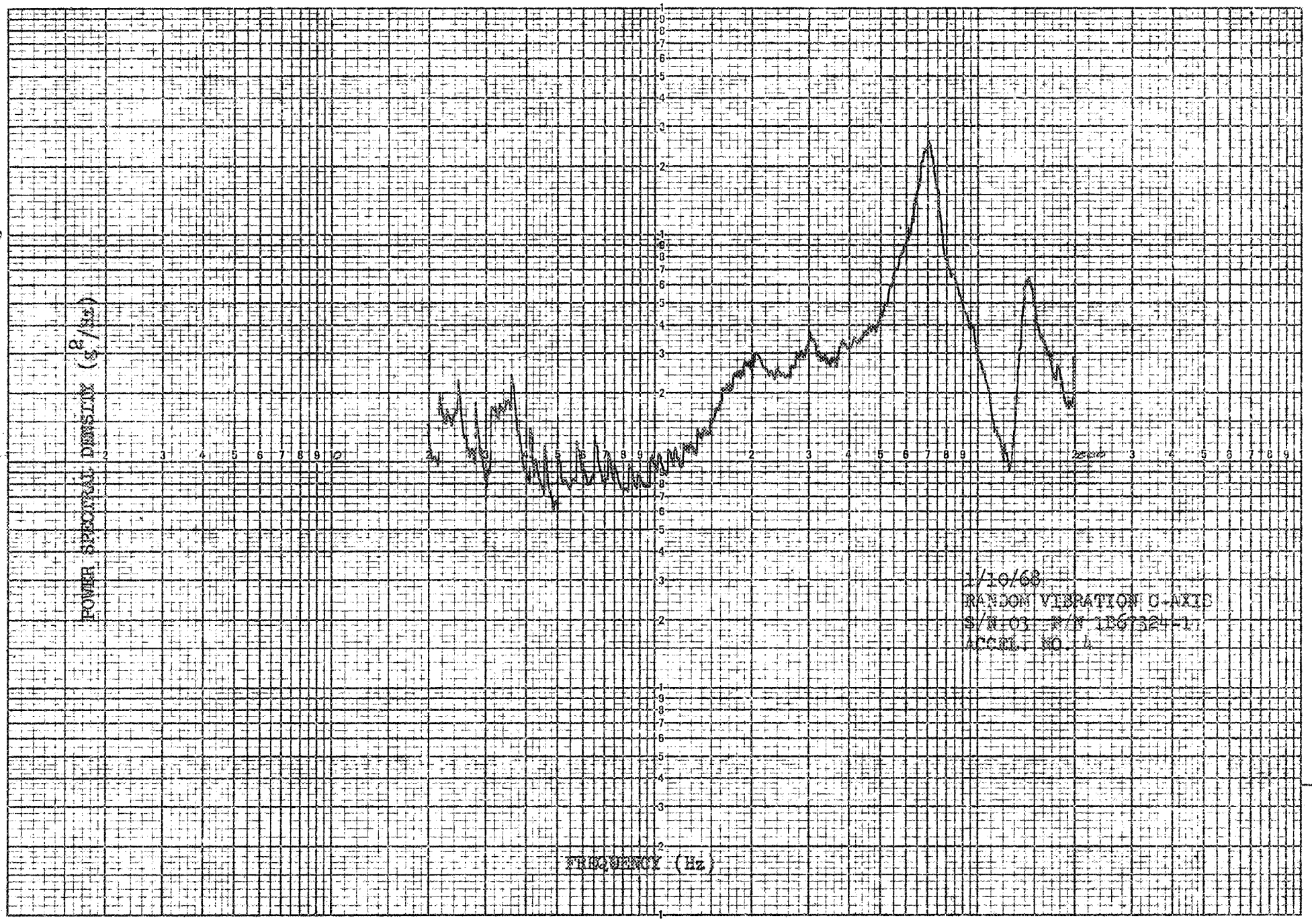


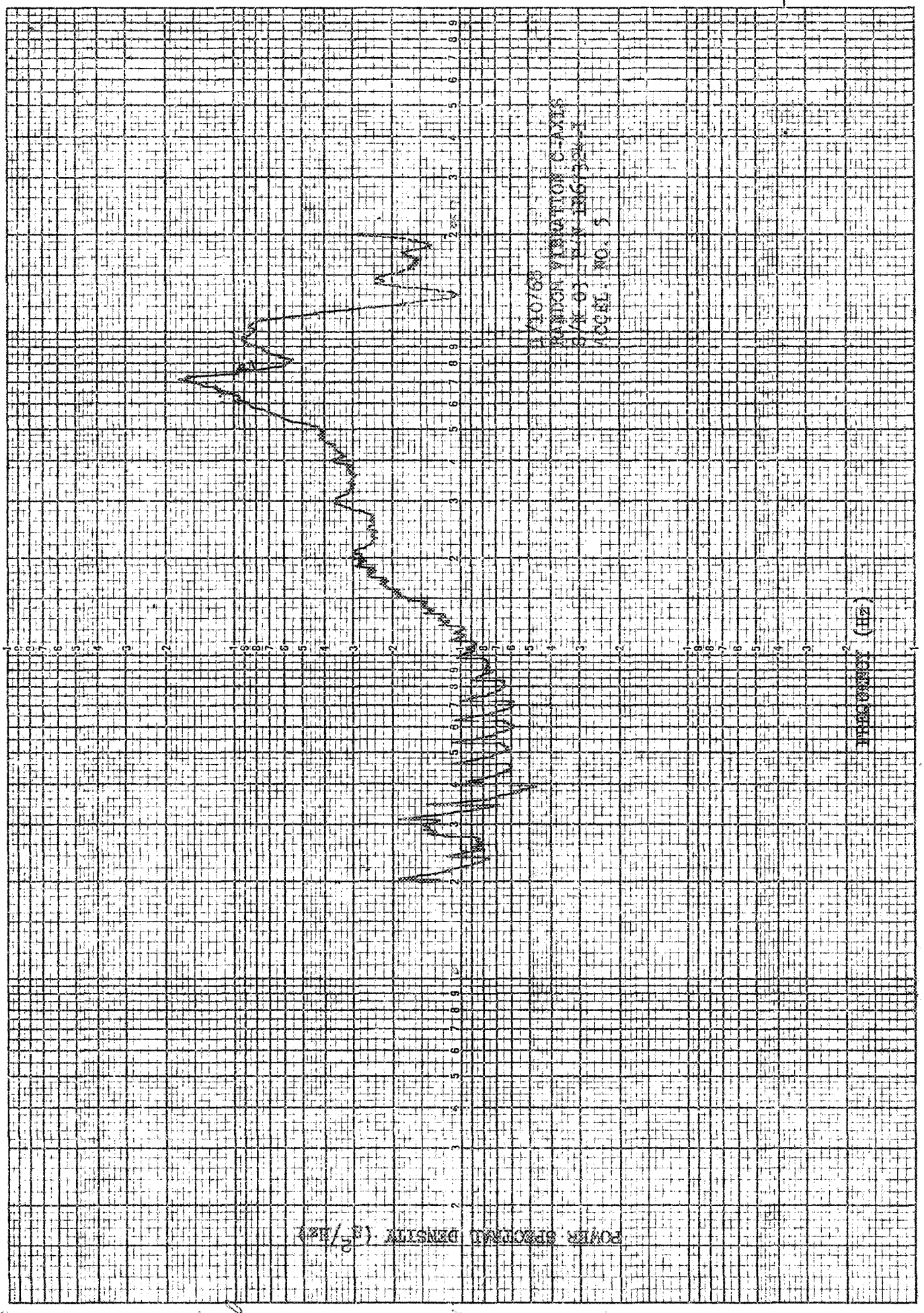

1/10/68
RANDOM VIBRATION C-AXIS
S/N 03 P/N 1B67324-1
CONTROL ACCEL
FREQUENCY (Hz)
POWER SPECTRAL DENSITY (g²/Hz)

1/15/63 RANDOM C AXIS



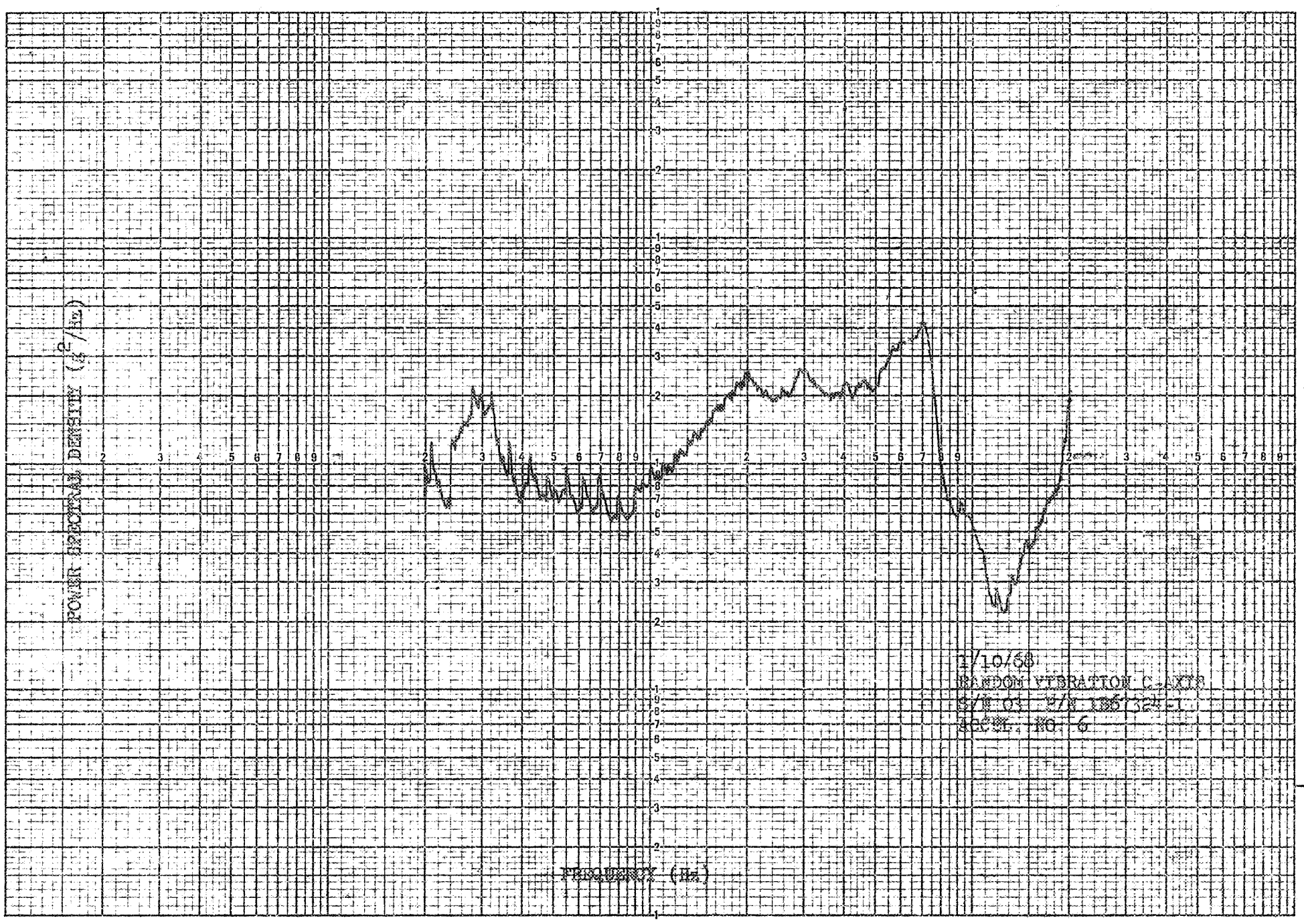
1/10/68 RANDOM C AXIS





1/10/68 RANDOM C-AXIS

1/10/68 RANDOM CHART



DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. LT10611 MODEL NO. DSV-4B

OBSERVER LABORATORY Q&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.896 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9993 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.994 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1968 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1968 Hz
			balance	254.7, 253.1 μs
	J3	H and K	10 ± 1 v p-p	9.5 v p-p
			frequency	1969 Hz
			balance	254.6, 253.2 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	~~4.5~~ 1969 Hz
			balance	254.5, 253.2 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1969 Hz
			balance	254.5, 253.3 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/10/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29234 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.000 vdc
Input Current	J1	J(+) and G(-)		.920 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9997 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.996 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.6 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1997 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.2, 249.5 μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.2, 249.6 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.1 249.6 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	1997 Hz
			balance	251.0 249.7 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 8/11/68 POST VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1810611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.001 vdc
Input Current	J1	J(+) and G(-)		0.948 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+5.0007 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.994 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.6 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	2016 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.7 v p-p
			frequency	2017 Hz
			balance	248.8 247.0 μs
	J3	H and K	10 ± 1 v p-p	9.7 v p-p
			frequency	2017 Hz
			balance	248.7 247.1 μs
	J3	C and J	10 ± 1 v p-p	9.7 v p-p
			frequency	2017 Hz
			balance	248.6 247.1 μs
	J3	B and A	10 ± 1 v p-p	9.7 v p-p
			frequency	2017 Hz
			balance	248.5 247.3 μs

COMMENTS:

DATA SHEET

DATE 1/11/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM F-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.896 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9996 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.991 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.6 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1971 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1971 Hz
			balance	254.8, 252.6 μs
	J3	H and K	10 ± 1 v p-p	9.5 v p-p
			frequency	1971 Hz
			balance	254.7, 252.7 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1971 Hz
			balance	254.6, 252.7 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1971 Hz
			balance	254.5, 253.0 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/11/68 POST - VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1F10611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED _____ NOT LOADED ✓ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.640 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9960 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	1973 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.2, 252.3 μs
	J3	H and K	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.3, 252.3 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.1, ~~254~~ 252.4 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1973 Hz
			balance	254.0 252.5 μs

COMMENTS:

DATA SHEET

DATE 1/11/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED _____ NOT LOADED ✓ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.001 vdc
Input Current	J1	J(+) and G(-)		0.660 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9958 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.994 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2000 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2000 Hz
			balance	250.9, 249.0 μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2000 Hz
			balance	250.9, 249.1 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2000 Hz
			balance	250.7, 249.2 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2000 Hz
			balance	250.6, 249.3 μs

COMMENTS:

DATA SHEET

DATE 1/11/68 POST - VIBRATION TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED _____ NOT LOADED ✓ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.001 vdc
Input Current	J1	J(+) and G(-)		0.684 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9962 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2021 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.7 v p-p
			frequency	2021 Hz
			balance	248.4, 246.4 μs
	J3	H and K	10 ± 1 v p-p	9.7 v p-p
			frequency	2021 Hz
			balance	248.4, 246.4 μs
	J3	C and J	10 ± 1 v p-p	9.7 v p-p
			frequency	2021 Hz
			balance	248.2, 246.5 μs
	J3	B and A	10 ± 1 v p-p	9.7 v p-p
			frequency	2021 Hz
			balance	248.1, 246.6 μs

COMMENTS:

DATA SHEET

DATE 1/11/68 POST-VIBRATION TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DEV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ 0900 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.000 vdc
Input Current	J1	J(+) and G(-)		0.632 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9961 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1974 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1974 Hz
			balance	254.5, 252.0 μs
	J3	H and K	10 ± 1 v p-p	9.5 v p-p
			frequency	1974 Hz
			balance	254.3, 252.1 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1974 Hz
			balance	254.4, 252.2 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1974 Hz
			balance	254.2, 252.4 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 PRE-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED _____ NOT LOADED _____ 0820 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.001 vdc
Input Current	J1	J(+) and G(-)		0.920 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9996 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~388~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1992 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	1992 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	1992 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	1992 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	1992 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED 1000 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.998 vdc
Input Current	J1	J(+) and G(-)		0.908 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9977 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.5 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2010 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2011 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2011 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2011 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2011 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-23-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B 673249-1 CHG. LTR. _____ S/N. 03 LINE ITEM P42B

S.O. 5169-6304 E.W.O. 29287 T.C.D. 15.06.1 MODEL NO. DSIVB

OBSERVER _____ LABORATORY GEC ENGINEER J. ITAGAKI

1000 Hours

Thermocouples:

No. 1	125	°F
No. 2	125	°F
No. 3	129	°F
No. 4	129	°F
No. 5	129	°F
No. 6	129	°F
No. 7	129	°F
No. 8	129	°F
No. 9	129	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29234 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 10.15 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.997 vdc
Input Current	J1	J(+) and G(-)		.908 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9987 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.994 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2018 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2018 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	9.6 v p-p
			frequency	2018 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2018 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2018 Hz
			balance	N.A. μs

COMMENTS:

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DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. B-6159

PART NO. 1B 67324-1 CHG. LTR. S/N. 03 LINE ITEM F42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. IT1061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1015 Hours

Thermocouples:

No. 1	135	°F
No. 2	136	°F
No. 3	134	°F
No. 4	134	°F
No. 5	137	°F
No. 6	138	°F
No. 7	142	°F
No. 8	137	°F
No. 9	138	°F

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DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29204 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1030 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9986 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2023 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2023 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2023 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2023 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2023 Hz
			balance	N.A. μs

COMMENTS:

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DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 17:061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1030 Hours

Thermocouples:

No. 1	150	°F
No. 2	150	°F
No. 3	148	°F
No. 4	136	°F
No. 5	150	°F
No. 6	152	°F
No. 7	156	°F
No. 8	150	°F
No. 9	152	°F

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DATE 1/13/69 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171-0611 MODEL NO. DSV-48

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1095 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.908 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9987 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	~~386~~ 390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2027 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2028 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2028 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2028 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2028 Hz
			balance	N.A. μs

COMMENTS:

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DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6307 E.W.O. 29284 T.C.D. 171961 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1045 Hours

Thermocouples:

No. 1	156	°F
No. 2	158	°F
No. 3	154	°F
No. 4	153	°F
No. 5	158	°F
No. 6	161	°F
No. 7	163	°F
No. 8	156	°F
No. 9	159	°F

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DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T13611 MODEL NO. DXV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED NOT LOADED 1100 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.996 vdc
Input Current	J1	J(+) and G(-)		0.908 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9987 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.2 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.1 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2030 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2030 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2030 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2030 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2030 Hz
			balance	N.A. μs

COMMENTS:

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DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1100 Hours

Thermocouples:

No. 1	158	°F
No. 2	163	°F
No. 3	158	°F
No. 4	157	°F
No. 5	162	°F
No. 6	167	°F
No. 7	169	°F
No. 8	160	°F
No. 9	164	°F

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DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1120 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.908 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	340 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2031 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2031 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	9.6 v p-p
			frequency	2031 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2031 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2031 Hz
			balance	N.A. μs

COMMENTS:

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DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1120 Hours

Thermocouples:

No. 1	161	°F
No. 2	165	°F
No. 3	161	°F
No. 4	160	°F
No. 5	164	°F
No. 6	169	°F
No. 7	172	°F
No. 8	163	°F
No. 9	166	°F

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DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1130 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.904 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2032 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2032 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2032 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2032 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2032 Hz
			balance	N.A. μs

COMMENTS:

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DATE 1-3-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. IT10611 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1130 Hours

Thermocouples:

No. 1	162	°F
No. 2	165	°F
No. 3	162	°F
No. 4	161	°F
No. 5	164	°F
No. 6	171	°F
No. 7	172	°F
No. 8	154	°F
No. 9	157	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1145 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2033 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2033 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2033 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2033 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2033 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM F428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1145 Hours

Thermocouples:

No. 1	165	°F
No. 2	167	°F
No. 3	165	°F
No. 4	163	°F
No. 5	167	°F
No. 6	173	°F
No. 7	174	°F
No. 8	166	°F
No. 9	168	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1200 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2034 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6135

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1200 Hours

Thermocouples:

No. 1	164	°F
No. 2	170	°F
No. 3	166	°F
No. 4	164	°F
No. 5	167	°F
No. 6	174	°F
No. 7	175	°F
No. 8	167	°F
No. 9	170	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1215 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		.908 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2034 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	96 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1215 Hours

Thermocouples:

No. 1	166	°F
No. 2	170	°F
No. 3	167	°F
No. 4	165	°F
No. 5	169	°F
No. 6	175	°F
No. 7	176	°F
No. 8	168	°F
No. 9	171	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29254 T.C.D. 1T10611 MODEL NO. DEV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1230 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	9.9986 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1230 Hours

Thermocouples:

No. 1	166	°F
No. 2	171	°F
No. 3	168	°F
No. 4	166	°F
No. 5	170	°F
No. 6	176	°F
No. 7	176	°F
No. 8	169	°F
No. 9	171	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-43

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1245 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.994 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2034 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1245 Hours

Thermocouples:

No. 1	165	°F
No. 2	170	°F
No. 3	166	°F
No. 4	166	°F
No. 5	168	°F
No. 6	174	°F
No. 7	176	°F
No. 8	168	°F
No. 9	170	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED 1300 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.993 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2034 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2034 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1300 Hours

Thermocouples:

No. 1	166	°F
No. 2	171	°F
No. 3	167	°F
No. 4	166	°F
No. 5	169	°F
No. 6	175	°F
No. 7	176	°F
No. 8	168	°F
No. 9	171	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1315 HOURS

Function	Connector	Between Pins	Required	Measured	
Input Voltage	J1	J(+) and G(-)		27.993	vdc
Input Current	J1	J(+) and G(-)		0.912	a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9985	vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.992	vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390	ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0	ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A.	vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A.	Hz
	J2-J1	E and H	2000 ± 200 Hz	2035	Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	~~20~~ 9.6	v p-p
			frequency	2035	Hz
			balance	N.A.	μs
	J3	H and K	10 ± 1 v p-p	9.6	v p-p
			frequency	2035	Hz
			balance	N.A.	μs
	J3	C and J	10 ± 1 v p-p	9.6	v p-p
			frequency	2035	Hz
			balance	N.A.	μs
	J3	B and A	10 ± 1 v p-p	~~8~~ 9.6	v p-p
			frequency	2035	Hz
			balance	N.A.	μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 186732-1 CHG. LTR. S/N. 23 LINE ITEM P-2B

S.O. 5769-6304 E.W.O. 23284 T.C.D. 1710611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1315 Hours

Thermocouples:

No. 1	167	°F
No. 2	172	°F
No. 3	168	°F
No. 4	166	°F
No. 5	170	°F
No. 6	176	°F
No. 7	176	°F
No. 8	169	°F
No. 9	171	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1330 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.992 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+9.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171961 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1330 Hours

Thermocouples:

No. 1	166	°F
No. 2	171	°F
No. 3	168	°F
No. 4	166	°F
No. 5	169	°F
No. 6	176	°F
No. 7	177	°F
No. 8	168	°F
No. 9	171	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. LT10611 MODEL NO. DEV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1345 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.993 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. B-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 27284 T.C.D. 1T10611 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1345 Hours

Thermocouples:

No. 1	166	°F
No. 2	171	°F
No. 3	168	°F
No. 4	167	°F
No. 5	170	°F
No. 6	176	°F
No. 7	177	°F
No. 8	169	°F
No. 9	172	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-43

OBSERVER LABORATORY C&C ENGINEER J. Itazaki

LOADED ✓ NOT LOADED 1400 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.991 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1400 Hours

Thermocouples:

No. 1	167	°F
No. 2	171	°F
No. 3	168	°F
No. 4	167	°F
No. 5	170	°F
No. 6	177	°F
No. 7	178	°F
No. 8	169	°F
No. 9	171	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 136730-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-43

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1415 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.992 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.991 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1415 Hours

Thermocouples:

No. 1	169	°F
No. 2	172	°F
No. 3	170	°F
No. 4	168	°F
No. 5	171	°F
No. 6	177	°F
No. 7	178	°F
No. 8	170	°F
No. 9	172	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1430 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.991 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST ____ REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. ____ S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DS1VB

OBSERVER ____ LABORATORY G & C ENGINEER J. ITAGAKI

1430 Hours

Thermocouples:

No. 1	168	°F
No. 2	172	°F
No. 3	168	°F
No. 4	167	°F
No. 5	170	°F
No. 6	176	°F
No. 7	178	°F
No. 8	170	°F
No. 9	172	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. PSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1445 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.991 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. µs
	J3	H and K	10 ± 1v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. µs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. µs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. µs

COMMENTS:

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. IT10011 MODEL NO. DSIUB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1445 Hours

Thermocouples:

No. 1	166	°F
No. 2	172	°F
No. 3	168	°F
No. 4	167	°F
No. 5	170	°F
No. 6	177	°F
No. 7	178	°F
No. 8	170	°F
No. 9	171	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED 1500 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.991 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. IT 10611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1500 Hours

Thermocouples:

No. 1	167	°F
No. 2	172	°F
No. 3	168	°F
No. 4	167	°F
No. 5	171	°F
No. 6	177	°F
No. 7	177	°F
No. 8	169	°F
No. 9	172	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1110611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1515 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.005 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9985 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.0 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P428
S.O. 5769-6304 E.W.O. 29284 T.C.D. 171061 MODEL NO. DSIVB
OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1515 Hours

Thermocouples:

No. 1	167	°F
No. 2	172	°F
No. 3	168	°F
No. 4	167	°F
No. 5	170	°F
No. 6	178	°F
No. 7	178	°F
No. 8	170	°F
No. 9	172	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1530 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.004 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.4 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DS1VB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1530 Hours

Thermocouples:

No. 1	168	°F
No. 2	172	°F
No. 3	169	°F
No. 4	168	°F
No. 5	170	°F
No. 6	177	°F
No. 7	178	°F
No. 8	169	°F
No. 9	172	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367304-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1545 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.003 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1545 Hours

Thermocouples:

No. 1	166	°F
No. 2	171	°F
No. 3	168	°F
No. 4	167	°F
No. 5	170	°F
No. 6	178	°F
No. 7	178	°F
No. 8	169	°F
No. 9	171	°F

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1267324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1600 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.004 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9984 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.1 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T1061 MODEL NO. DSIVB

OBSERVER LABORATORY GEC ENGINEER J. ITAGAKI

1600 Hours

Thermocouples:

No. 1	167	°F
No. 2	172	°F
No. 3	168	°F
No. 4	168	°F
No. 5	170	°F
No. 6	177	°F
No. 7	178	°F
No. 8	170	°F
No. 9	172	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1967324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1615 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9983 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS:

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T12611 MODEL NO. DS1VB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1615 Hours

Thermocouples:

No. 1	166	°F
No. 2	171	°F
No. 3	168	°F
No. 4	167	°F
No. 5	170	°F
No. 6	176	°F
No. 7	178	°F
No. 8	169	°F
No. 9	171	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/13/68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY C&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED 1630 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		27.995 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9983 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.1 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	~~2~~ 2035 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	H and K	10 ± 1v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2035 Hz
			balance	N.A. μs

COMMENTS: Chamber Temperature = 135°F.

DATA SHEET

DATE 1-13-68 HIGH TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1867324-1 CHG. LTR. S/N. 03 LINE ITEM P42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1710611 MODEL NO. DSIVB

OBSERVER LABORATORY G&C ENGINEER J. ITAGAKI

1630 Hours

Thermocouples:

No. 1	169	°F
No. 2	173	°F
No. 3	169	°F
No. 4	167	°F
No. 5	170	°F
No. 6	177	°F
No. 7	178	°F
No. 8	170	°F
No. 9	172	°F

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.002 vdc
Input Current	J1	J(+) and G(-)		0.888 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9995 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	~~1973~~ 1980 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	~~1973~~ 1980 Hz
			balance	253.5 251.4 μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	~~1973~~ 1980 Hz
			balance	253.5 251.5 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	~~1973~~ 1980 Hz
			balance	253.5, 251.5 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	~~1973~~ 1980 Hz
			balance	253.4, 251.5 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-423

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.000 vdc
Input Current	J1	J(+) and G(-)		0.912 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9997 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.994 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.4 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2006 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2006 Hz
			balance	249.3, 249.1 μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2006 Hz
			balance	249.3, 249.1 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2006 Hz
			balance	249.3, 249.1 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2006 Hz
			balance	249.3, 249.1 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1367324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.001 vdc
Input Current	J1	J(+) and G(-)		0.940 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 5.0003 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	- 19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.5 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.2 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2026 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.7 v p-p
			frequency	2027 Hz
			balance	246.8 246.5 μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2027 Hz
			balance	246.7 246.5 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2027 Hz
			balance	246.8 246.5 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2027 Hz
			balance	246.8 246.5 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM F-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED _____ _____ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.996 vdc
Input Current	J1	J(+) and G(-)		0.884 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+4.9965 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.992 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	390.4 ma
	J2	L(+) and K(-)	100 ± 5 ma	98.1 ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1981 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1981 Hz
			balance	252.9, 251.6 μs
	J3	H and K	10 ± 1 v p-p	9.5 v p-p
			frequency	1981 Hz
			balance	252.9, 251.5 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1981 Hz
			balance	252.9, 251.6 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1981 Hz
			balance	252.9, 251.5 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		23.999 vdc
Input Current	J1	J(+) and G(-)		0.628 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9960 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1983 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1983 Hz
			balance	252.7, 251.3 μs
	J3	H and K	10 ± 1 v p-p	9.5 v p-p
			frequency	1983 Hz
			balance	252.7, 251.4 μs
	J3	C and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1983 Hz
			balance	252.6, 251.4 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1983 Hz
			balance	252.7, 251.4 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		28.002 vdc
Input Current	J1	J(+) and G(-)		0.656 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9961 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2009 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.6 v p-p
			frequency	2009 Hz
			balance	249.6, 248.1 μs
	J3	H and K	10 ± 1 v p-p	9.6 v p-p
			frequency	2009 Hz
			balance	249.7, 248.1 μs
	J3	C and J	10 ± 1 v p-p	9.6 v p-p
			frequency	2009 Hz
			balance	249.5, 248.2 μs
	J3	B and A	10 ± 1 v p-p	9.6 v p-p
			frequency	2009 Hz
			balance	249.5, 248.1 μs

COMMENTS:

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. ISV-48

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED NOT LOADED ✓ ~~12~~ HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		32.000 vdc
Input Current	J1	J(+) and G(-)		0.680 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	4.9963 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.995 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	2029 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.7 v p-p
			frequency	2029 Hz
			balance	247.0, 245.7 μs
	J3	H and K	10 ± 1 v p-p	9.7 v p-p
			frequency	2029 Hz
			balance	247.0, 245.7 μs
	J3	C and J	10 ± 1 v p-p	9.7 v p-p
			frequency	2029 Hz
			balance	247.0, 245.7 μs
	J3	B and A	10 ± 1 v p-p	9.7 v p-p
			frequency	2029 Hz
			balance	247.0 245.8 μs

COMMENTS:

DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-428

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DEV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

LOADED ✓ NOT LOADED ✓ 1215 HOURS

Function	Connector	Between Pins	Required	Measured
Input Voltage	J1	J(+) and G(-)		24.002 vdc
Input Current	J1	J(+) and G(-)		0.628 a
Output Voltage	J2	C(+) and M(-)	5.000 ± 0.025 vdc	+ 4.9966 vdc
	J2	M(+) and B(-)	-20.00 ± 0.04 vdc	-19.993 vdc
Output Current	J2	J(+) and L(-)	400 ± 20 ma	N.A. ma
	J2	L(+) and K(-)	100 ± 5 ma	N.A. ma
Square Wave Output Voltage	J3	A and B	5.00 ± 0.01 vac	N.A. vac
Square Wave Frequency	J3	A and B	2000 ± 200 Hz	N.A. Hz
	J2-J1	E and H	2000 ± 200 Hz	1984 Hz
Square Wave Output Voltage	J3	F and G	10 ± 1 v p-p	9.5 v p-p
			frequency	1984 Hz
			balance	252.7, 251.2 μs
	J3	H and K	10 ± 1v p-p	9.5 v p-p
			frequency	1984 Hz
			balance	252.7, 251.2 μs
	J3	J and J	10 ± 1 v p-p	9.5 v p-p
			frequency	1984 Hz
			balance	252.6, 251.2 μs
	J3	B and A	10 ± 1 v p-p	9.5 v p-p
			frequency	1984 Hz
			balance	252.6, 251.2 μs

COMMENTS:

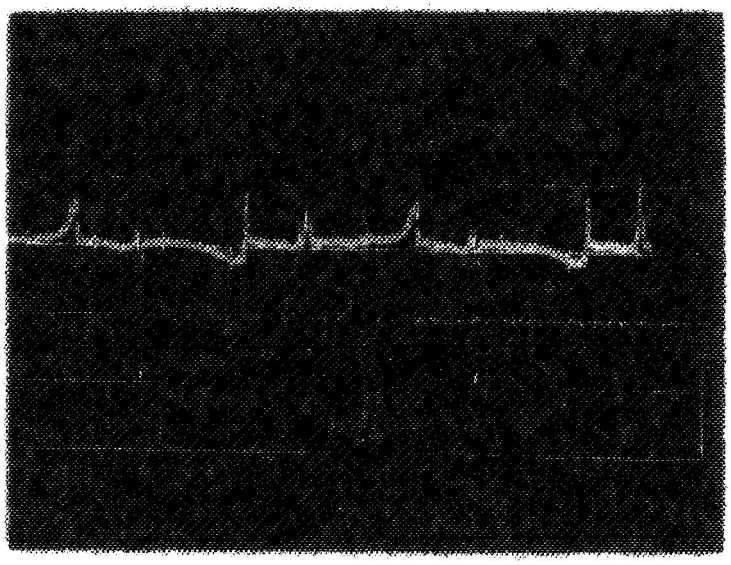
DATA SHEET

DATE 1/15/68 Post - TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

28 VDC · Input.

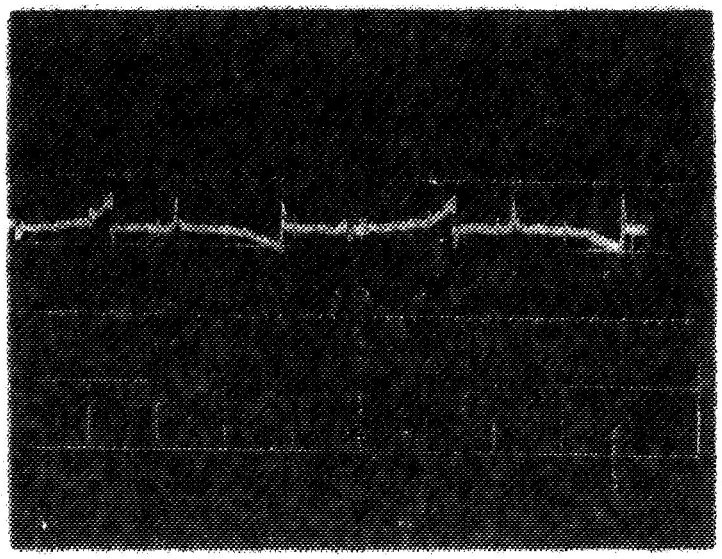
LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 m v p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 m v p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

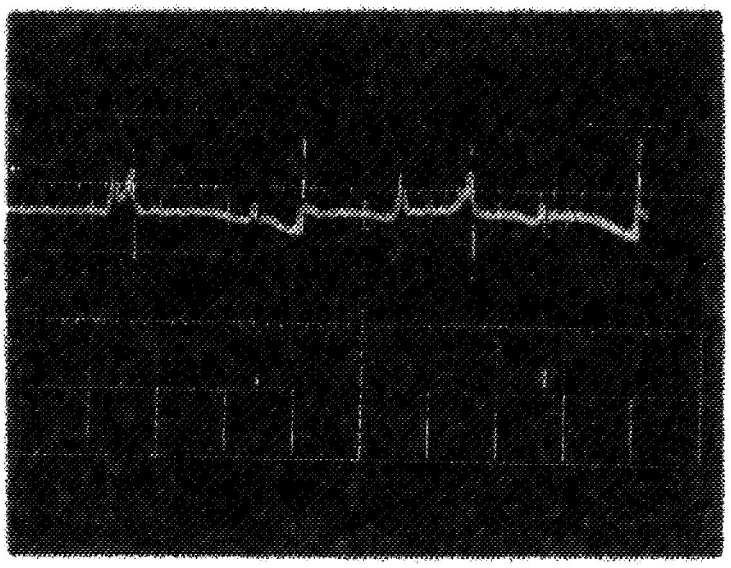
DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

25 VDC Input

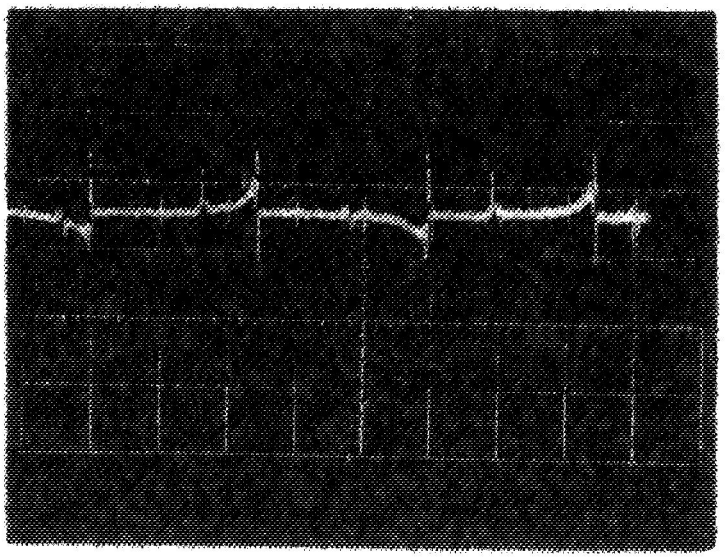
LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

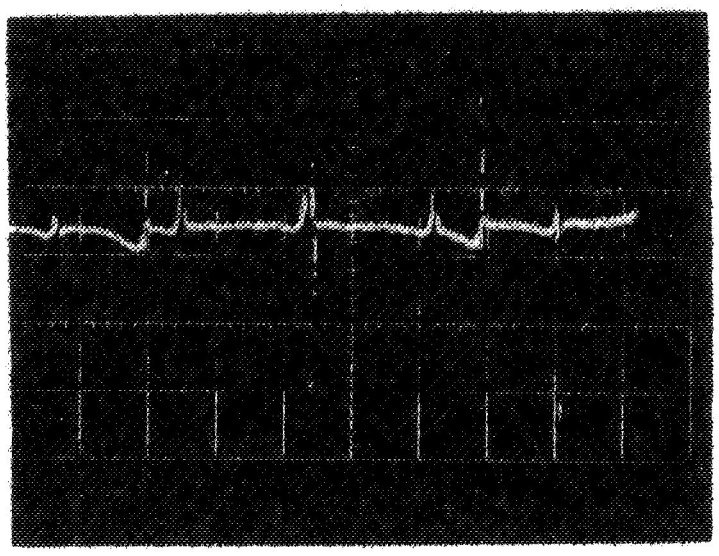
DATA SHEET

DATE 1/15/68 POST-TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

32 VDC Input.

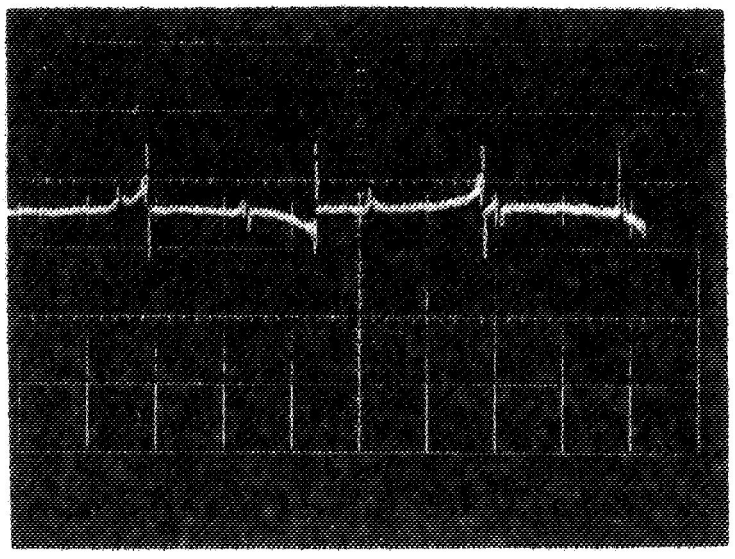
LOADED ✓ NOT LOADED HOURS

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

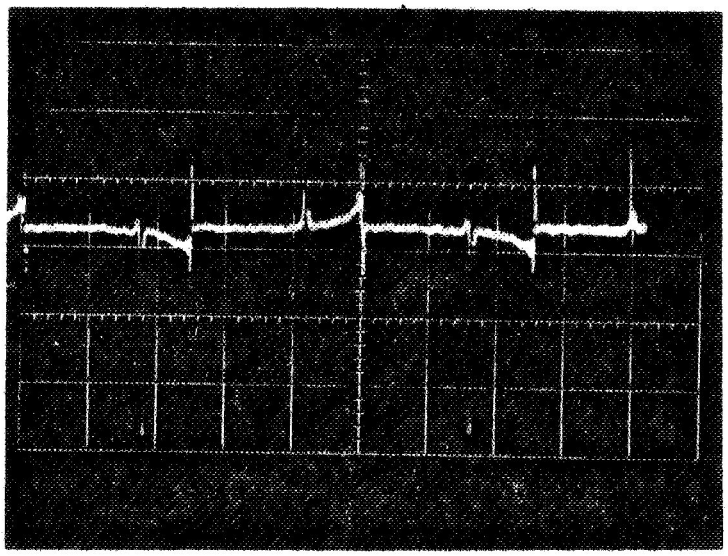
DATA SHEET

DATE 1/15/68 POST- TEMPERATURE TEST REPORT NO. R-6155
PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B
OBSERVER LABORATORY G&C ENGINEER J. Itagaki

24 VDC Input.

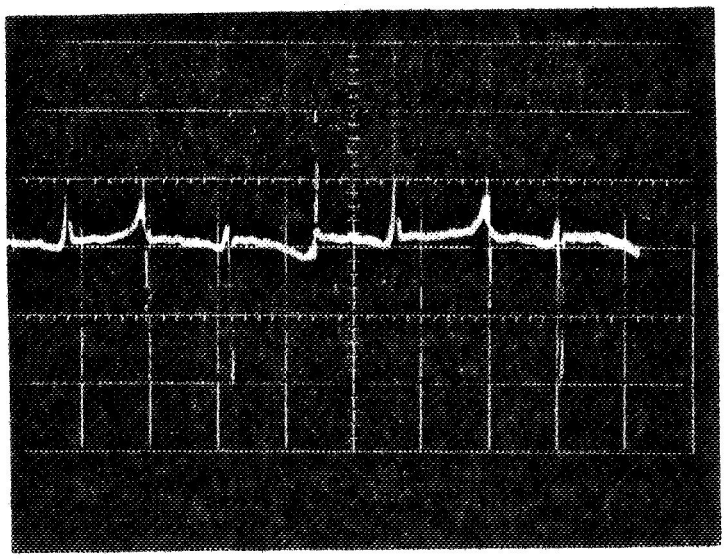
LOADED NOT LOADED ✓ HOURS

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm
Horz. Sens 100 μs/cm

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

28 VDC Input

LOADED NOT LOADED ✓ HOURS

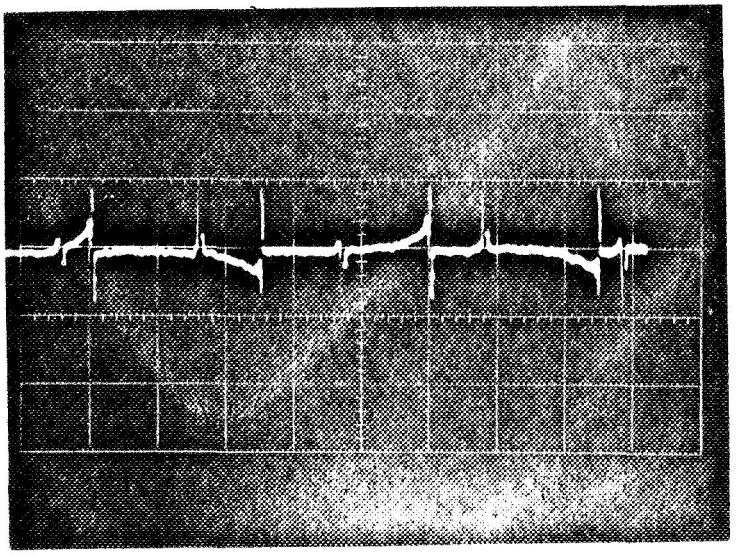
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	v p-p

Vert. Sens

Horz. Sens

NOT - OBTAINED

Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

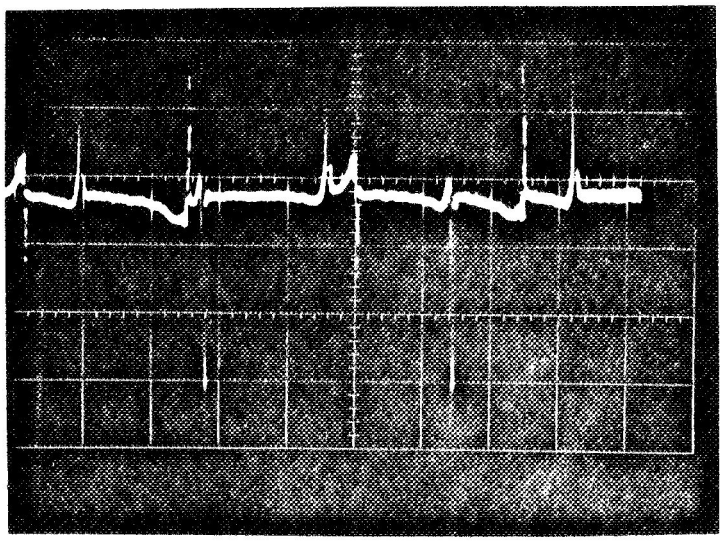
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

32 VDC Input.

LOADED _____ NOT LOADED ✓ HOURS _____

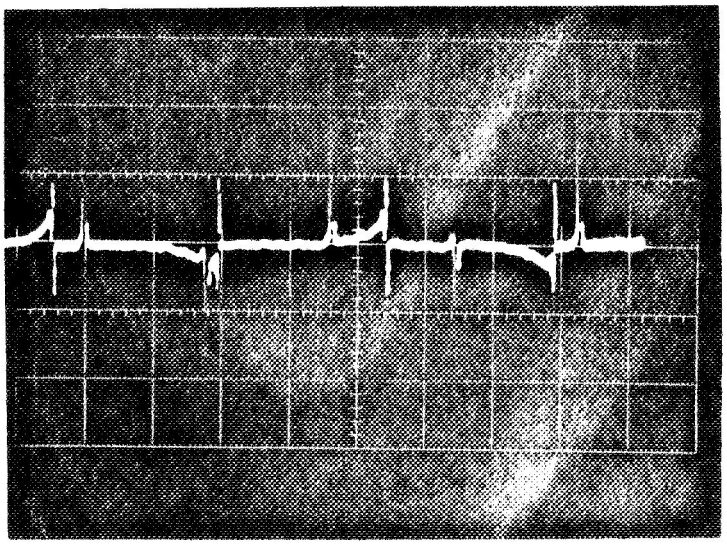
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 μs/cm

FORM NO. 30-830 (REV. 6-66)

DATA SHEET

DATE 1/15/68 POST - TEMPERATURE TEST REPORT NO. R-6155

PART NO. 1B67324-1 CHG. LTR. S/N. 03 LINE ITEM P-42B

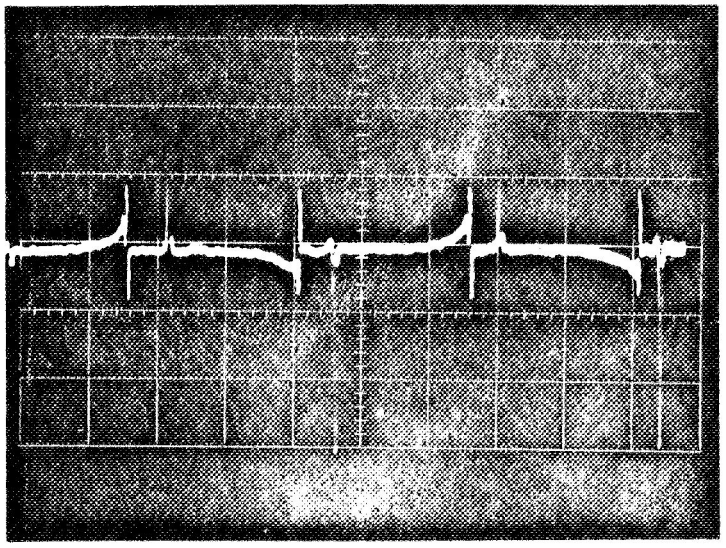
S.O. 5769-6304 E.W.O. 29284 T.C.D. 1T10611 MODEL NO. DSV-4B

OBSERVER LABORATORY G&C ENGINEER J. Itagaki

24 VDC Input -

LOADED NOT LOADED ✓ HOURS

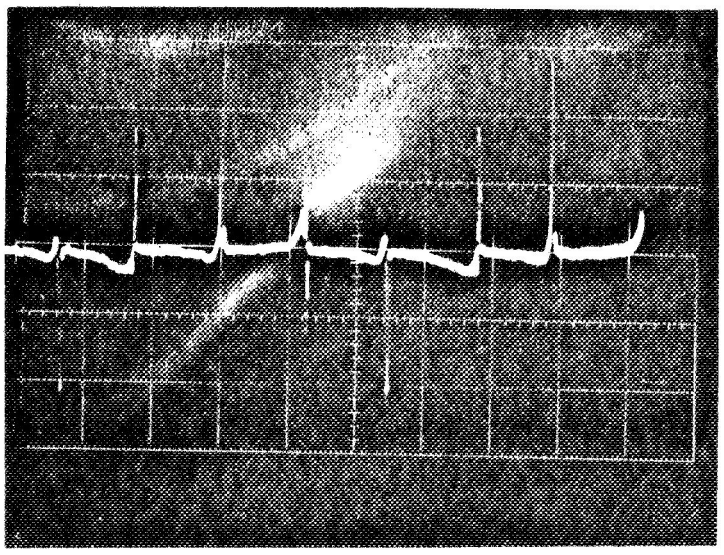
Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	C(+) and M(-)	0.1 v p-p max	2 mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 µs/cm

Function	Connector	Between Pins	Required	Measured
Output Ripple	J2	M(+) and B(-)	0.1 v p-p max	2mv p-p



Vert. Sens 10 mv/cm

Horz. Sens 100 µs/cm