

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMNACE AT MAXIMUM TEMP

MEASUREMENT DATE: 3 Oct 2000 TIME: 14:09:44

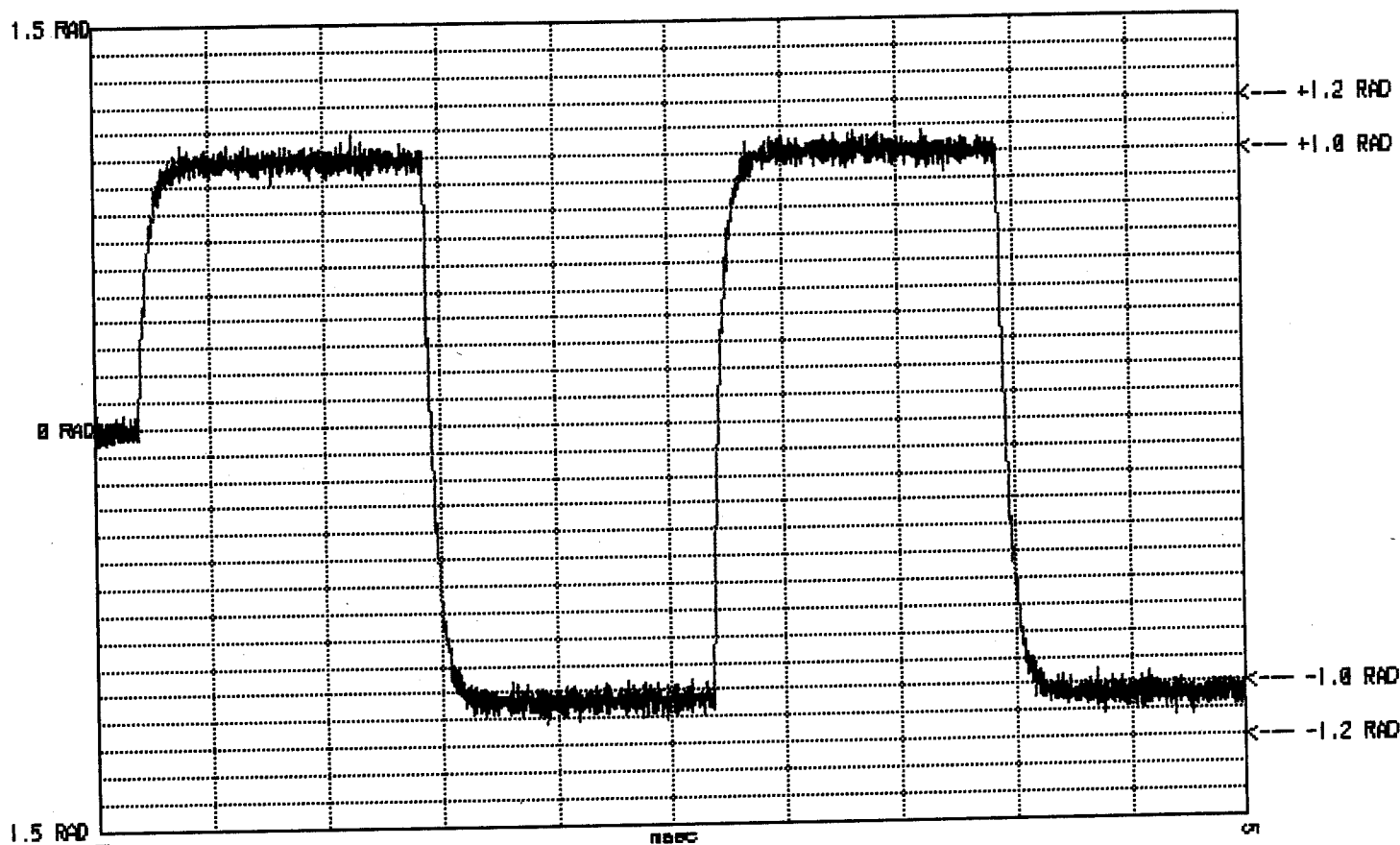
TESTED BY:

[Signature]

APPROVED BY:

Rosa Barrineau

PHASE MODULATION vs TIME



SPECIFICATIONS TESTED	LIMITS	RESULTS	UNITS	COMMENTS
Modulation: symmetry	< 0.05	0.0000		passed
Modulation: rise time	150 $\pm$ 100	119.5	us	passed
fall time	150 $\pm$ 100	108.5	us	passed

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMNACE AT MAXIMUM TEMP

MEASUREMENT DATE: 3 Oct 2000 TIME: 14:11:24

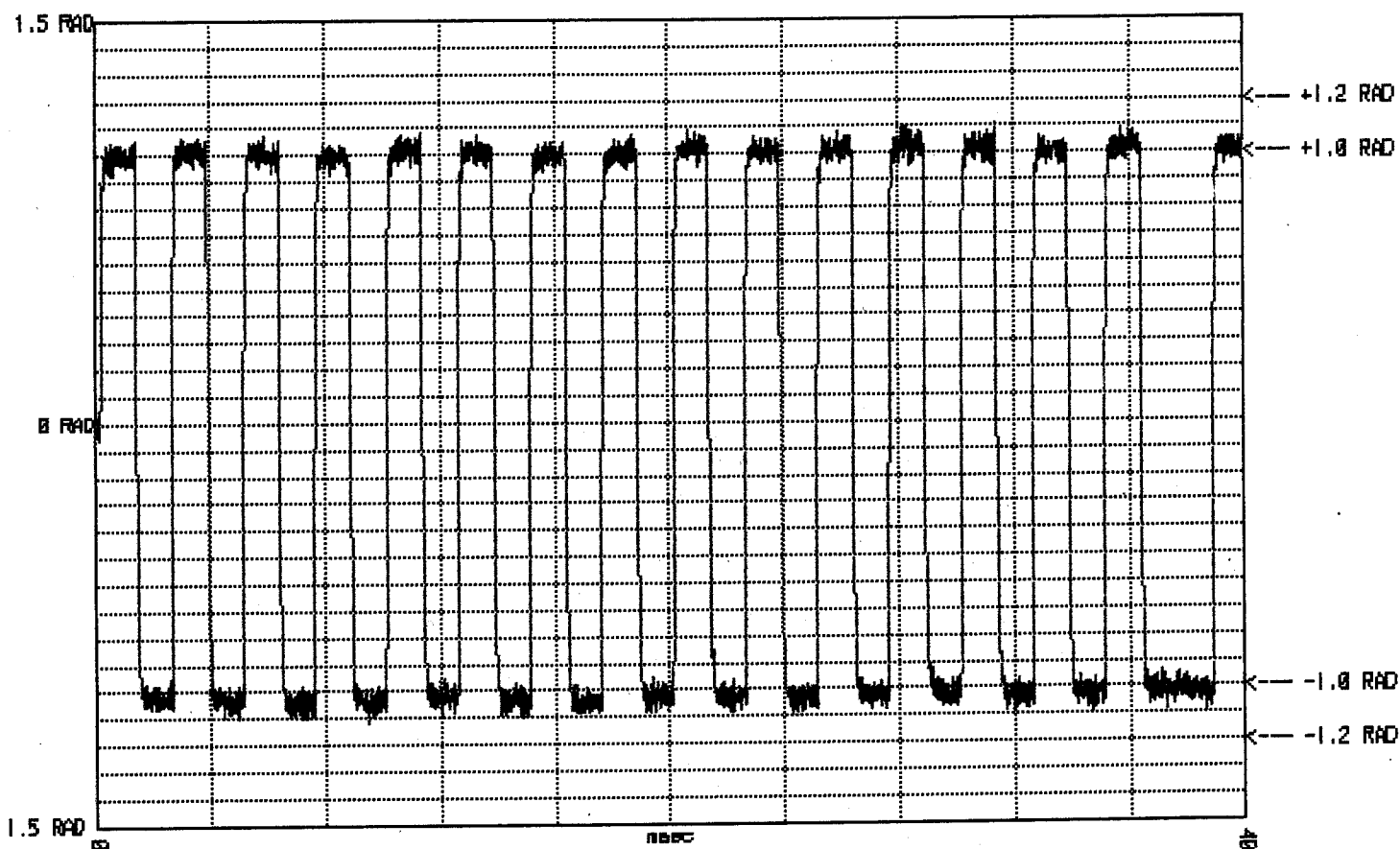
TESTED BY:

CBh

APPROVED BY:

Rosa Barrineau

PHASE MODULATION vs TIME



SPECIFICATIONS TESTED	LIMITS	RESULTS	UNITS	COMMENTS
Phase modulation: + AVG	+1.1 $\pm$ 0.1	1.01	rad	passed
- AVG	-1.1 $\pm$ 0.1	-1.02	rad	passed

Peak positive phase modulation: 1.11 rad

Peak negative phase modulation: -1.11 rad

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMNACE AT MAXIMUM TEMP

MEASUREMENT DATE: 3 Oct 2000 TIME: 14:13:02

TESTED BY:

C Boh

APPROVED BY:

Rosa Barrineau

SPECIFICATIONS TESTED	LIMITS	RESULTS	UNITS	COMMENTS
Nominal transmitted frequency	406.028 $\pm$.001	406.027998	MHz	passed
Short term frequency stability	< 2.0E-9	1.80E-10		passed
Medium term: mean slope	< 1.0E-9	+2.53E-11	/min	passed
residual deviation	< 3.0E-9	1.97E-10		passed
Tx ouput power level	3.15 TO 7.93	4.33	W	passed
Burst envelope: rise time	< 5	.55	ms	passed
fall time	< 5	< 0.01	ms	passed
Phase modulation: + AVG	+1.1 $\pm$ 0.1	1.01	rad	passed
- AVG	-1.1 $\pm$ 0.1	-1.02	rad	passed
Modulation: symmetry	< 0.05	0.0000		passed
Modulation: rise time	150 $\pm$ 100	119.5	us	passed
fall time	150 $\pm$ 100	108.5	us	passed
Repetition period minimum	47.5 TO 52.5	47.6	s	passed
Repetition period maximum	47.5 TO 52.5	51.7	s	passed
Repetition period (max - min)	>1	4.1	s	passed
Total transmission time minimum	435.6 TO 444.4	439.4	ms	passed
Total transmission time maximum	435.6 TO 444.4	439.4	ms	passed
Cw preamble minimum	158.4 TO 161.6	159.2	ms	passed
Cw preamble maximum	158.4 TO 161.6	159.3	ms	passed
Message bit rate minimum	396.0 TO 404.0	399.9	bps	passed
Message bit rate maximum	396.0 TO 404.0	400.1	bps	passed

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA
MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029
BEACON CERTIFICATION TEST RESULTS - SELF TEST VERIFICATION
MEASUREMENT DATE: 3 Oct 2000 TIME: 14:36:23

TESTED BY: C. Boh

APPROVED BY: Rosa Barrineau

FRAME SYNCHRONIZATION BIT #: 16 17 18 19 20 21 22 23 24

Should be: 0 1 1 0 1 0 0 0 0
Decoded: 0 1 1 0 1 0 0 0 0

NUMBER OF BURST DURING SELF TEST CYCLE: 1

440.3 Ms Pulse.
1st Burst Delay 53 Sec.
Strobe Rate 21.

UNM ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA
MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029
BEACON CERTIFICATION TEST RESULTS - SELF TEST VERIFICATION
MEASUREMENT DATE: 3 Oct 2000 TIME: 14:38:17

TESTED BY: C. Baker

APPROVED BY: Rosa Barineau

BEACON DIGITAL MESSAGE VERIFICATION

SYNCHRONIZATION BIT #: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Should be: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Decoded: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

*** BIT SYNCHRONIZATION OK ***

FRAME SYNCHRONIZATION BIT #: 16 17 18 19 20 21 22 23 24

Should be: 0 0 0 1 0 1 1 1 1
Decoded: 0 1 1 0 1 0 0 0 0

*** ERROR IN FRAME SYNCHRONIZATION *** SELF TEST Verification

MESSAGE TYPE: SHORT MESSAGE (bit 25 = 0)

DIGITAL MESSAGE IN HEXADECIMAL: A D C D 0 0 0 0 0 4 4 0 4 0 1 0 0 A A 9 A

BEACON BCH CODE VERIFICATION

BCH CODE BIT #: 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06

Should be: 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1
Decoded: 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1

*** BCH CODE OK ***

SPURIOUS EMISSIONS

FREQUENCY (MHz)	RESULTS (dBc)	LIMITS (dBc)
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*** SPURIOUS TEST OK ***

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA
 MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029
 BEACON CERTIFICATION TEST RESULTS -
 MEASUREMENT DATE: 3 Oct 2000 TIME: 14:52:46

TESTED BY: CTB APPROVED BY: Rosa Barrineau

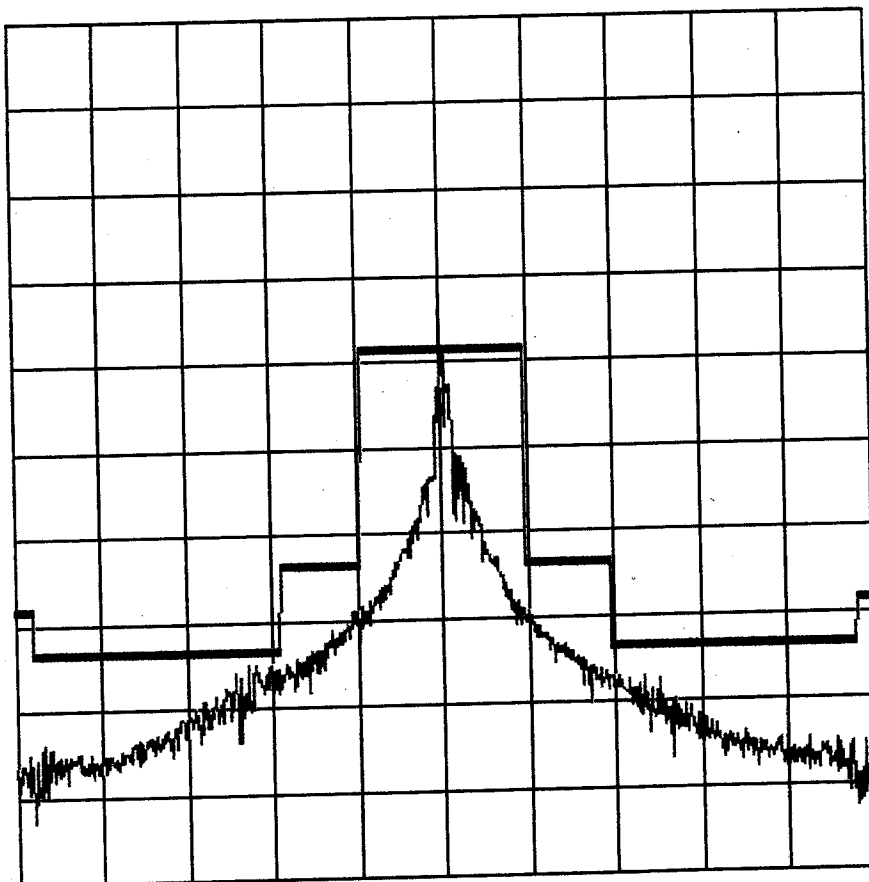
REF 20 dBm

3 Oct 2000

10 dB/

CENTER: 121.5MHz

SPAN: 130KHz



SPURIOUS EMISSIONS SPECTRUM

MINIMUM TEMPERATURE

WSMR ELECTRONIC PROVING GROUND, US ARMY FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - 406 SIGNAL SPURIOUS EMISSIONS AT MINIMUM TEMP

MEASUREMENT DATE: 4 Oct 2000 TIME: 09:29:08

TESTED BY: CB

APPROVED BY: Rosa Barineau

SPURIOUS EMISSIONS

FREQUENCY (MHz)	RESULTS (dBc)	LIMITS (dBc)
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*** SPURIOUS TEST OK ***

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - 406 SIGNAL SPURIOUS EMISSIONS AT MINIMUM TEMP

MEASUREMENT DATE: 4 Oct 2000 TIME: 13:21:26

TESTED BY: C. Baker

APPROVED BY: Rosa Barrineau

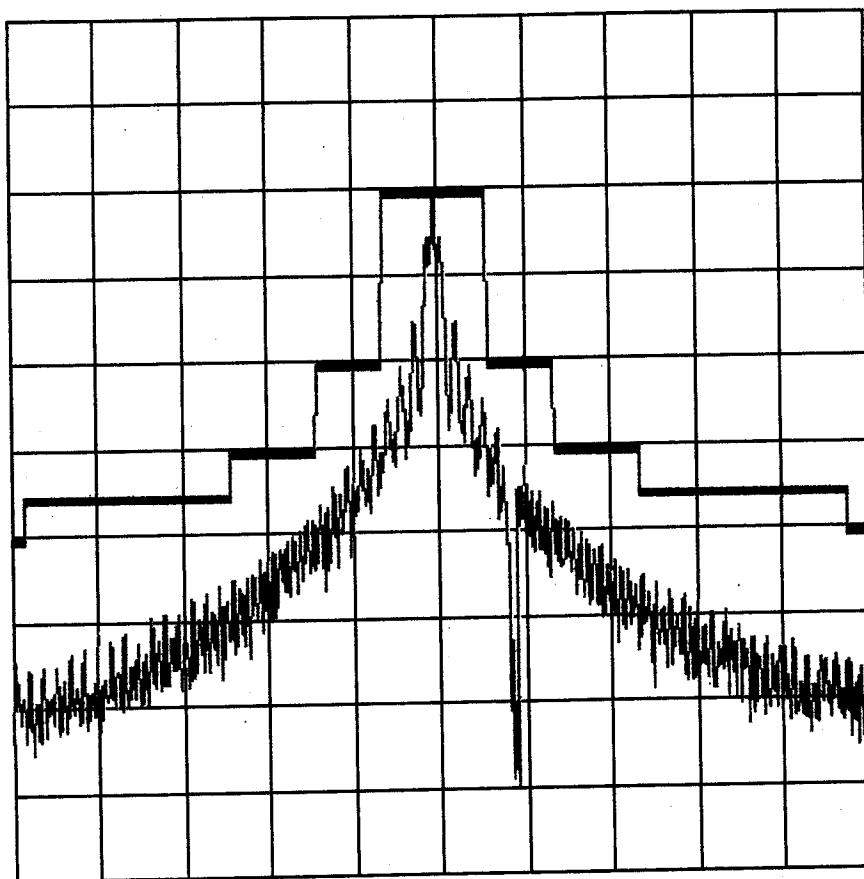
REF 20 dBm

4 Oct 2000

10 dB/

CENTER: 406.020MHz

SPAN: 50KHz



SPURIOUS EMISSIONS SPECTRUM

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

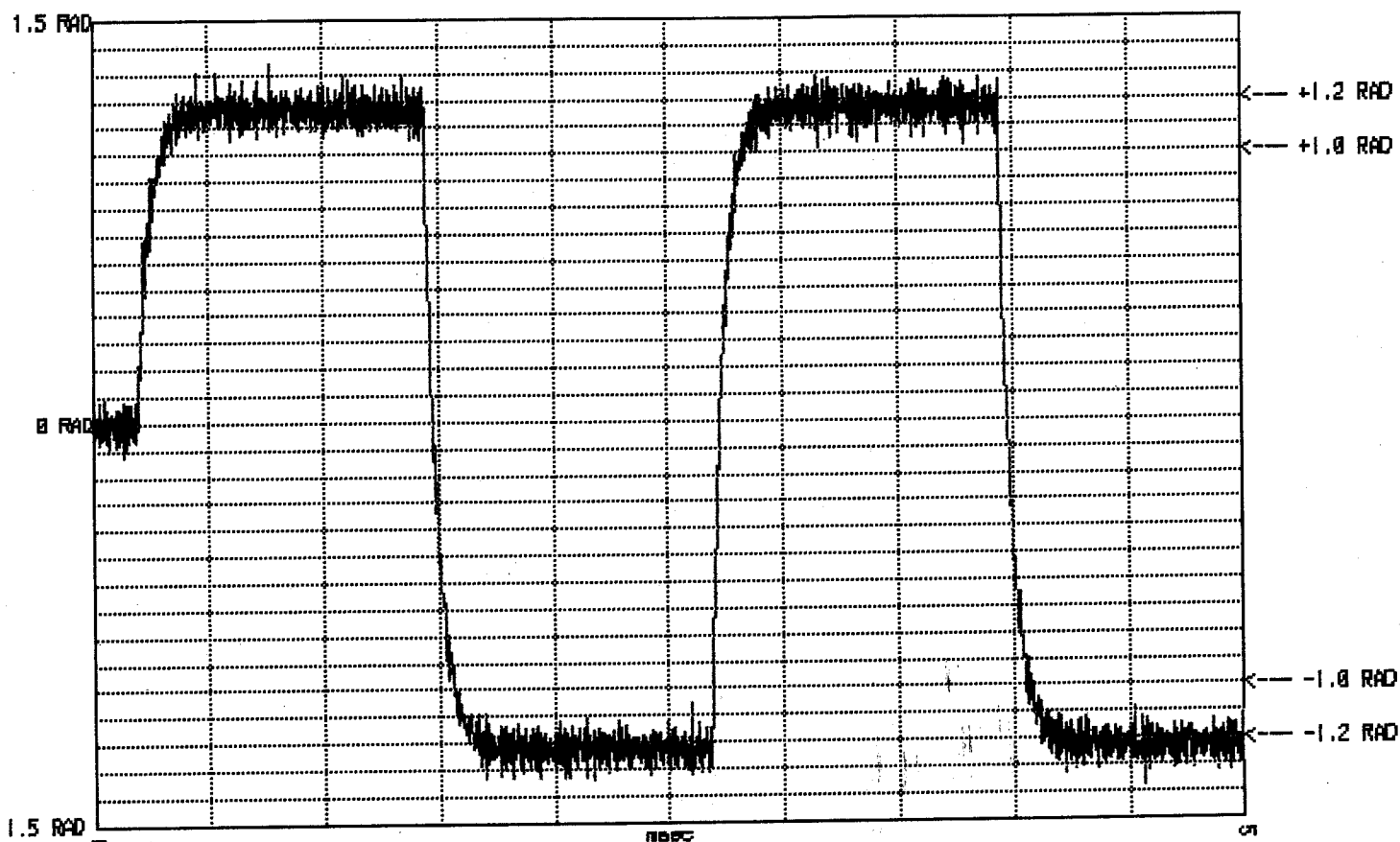
BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMANCE

MEASUREMENT DATE: 4 Oct 2000 TIME: 13:56:30 *minimum Temp*

TESTED BY: *C. Bah*

APPROVED BY: *Rosa Barrineau*

PHASE MODULATION vs TIME



SPECIFICATIONS TESTED	LIMITS	RESULTS	UNITS	COMMENTS
Modulation: symmetry	< 0.05	.0016		passed
Modulation: rise time	150 $\pm$ 100	142.2	us	passed
fall time	150 $\pm$ 100	135.8	us	passed

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

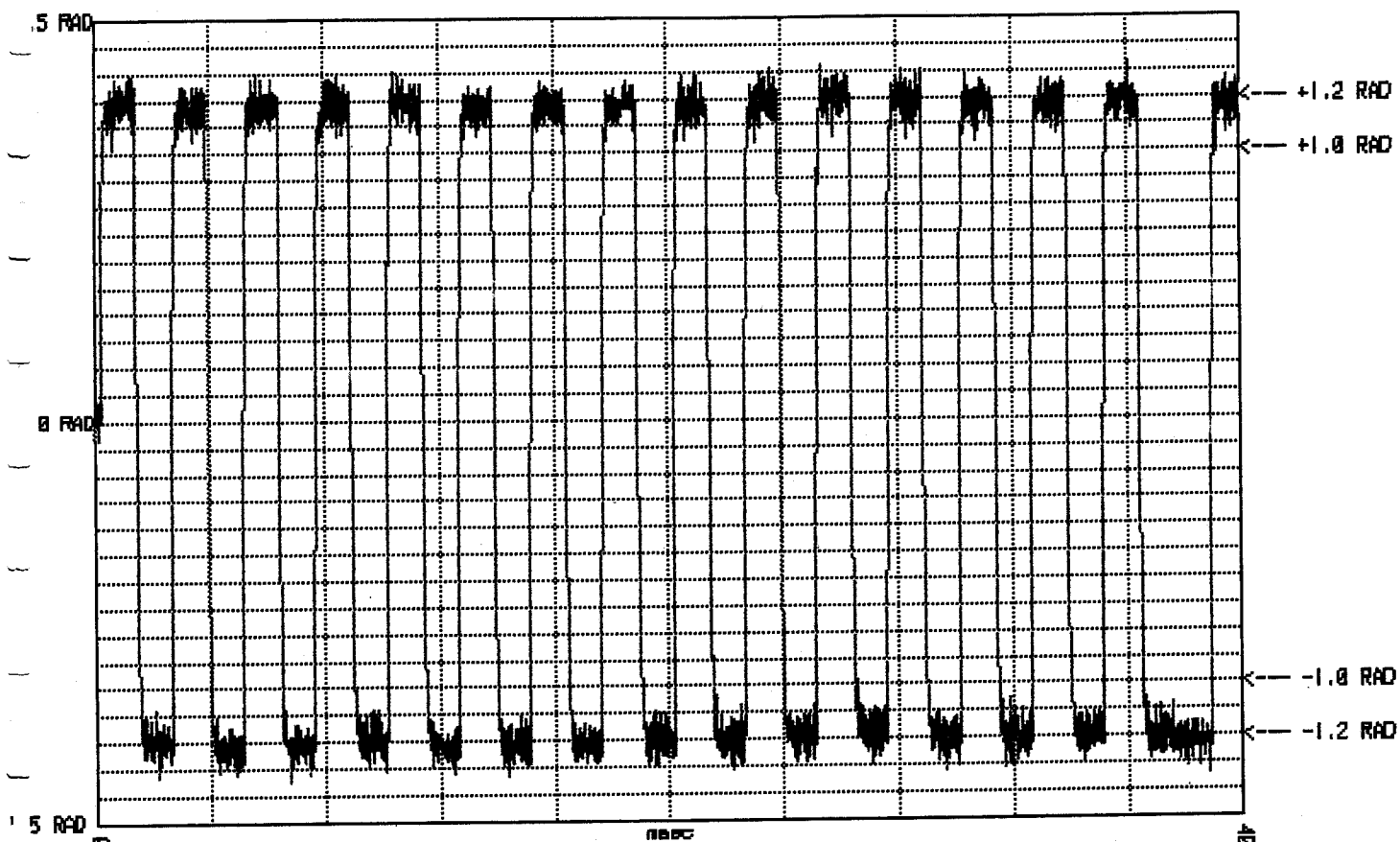
BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMANCE

MEASUREMENT DATE: 4 Oct 2000 TIME: 13:58:08 Minimum Temp

TESTED BY: C. Bal

APPROVED BY: Rosa Barrineau

PHASE MODULATION vs TIME



SPECIFICATIONS TESTED	LIMITS	RESULTS	UNITS	COMMENTS
Phase modulation: + AVG	+1.1 $\pm$ 0.1	1.18	rad	passed
- AVG	-1.1 $\pm$ 0.1	-1.20	rad	failed

Peak positive phase modulation: 1.35 rad
Peak negative phase modulation: -1.34 rad

test program tolerance
checking error

Post open/short/VSWR (maximum)

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA
 MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029
 BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMANCE
 MEASUREMENT DATE: 4 Oct 2000 TIME: 13:59:44 *Minimum Temp*

TESTED BY: *CB*

APPROVED BY: *Rosa Barineau*

SPECIFICATIONS TESTED	LIMITS	RESULTS	UNITS	COMMENTS
Nominal transmitted frequency	406.028 ±.001	406.028055	MHz	passed
Short term frequency stability	< 2.0E-9	5.95E-10		passed
Medium term: mean slope	< 1.0E-9	+3.32E-11	/min	passed
residual deviation	< 3.0E-9	2.80E-10		passed
Tx output power level	3.15 TO 7.93	4.13	W	passed
Burst envelope: rise time	< 5	.46	ms	passed
fall time	< 5	.01	ms	passed
Phase modulation: + AVG	+1.1 ±0.1	1.18	rad	passed
- AVG	-1.1 ±0.1	-1.20	rad	failed
Modulation: symmetry	< 0.05	.0016		passed
Modulation: rise time	150 ±100	142.2	us	passed
fall time	150 ±100	135.8	us	passed
Repetition period minimum	47.5 TO 52.5	48.0	s	passed
Repetition period maximum	47.5 TO 52.5	51.7	s	passed
Repetition period (max - min)	>1	3.7	s	passed
Total transmission time minimum	435.6 TO 444.4	439.2	ms	passed
Total transmission time maximum	435.6 TO 444.4	439.2	ms	passed
Cw preamble minimum	158.4 TO 161.6	159.2	ms	passed
Cw preamble maximum	158.4 TO 161.6	159.2	ms	passed
Message bit rate minimum	396.0 TO 404.0	399.9	bps	passed
Message bit rate maximum	396.0 TO 404.0	400.1	bps	passed

First burst delay time: 53.0 sec (maximum)

*test program
tolerance checking
program
problem*

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA
MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029
BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMANCE
MEASUREMENT DATE: 4 Oct 2000 TIME: 13:22:24 *Minimum Temp*

TESTED BY: *C. Beh*

APPROVED BY: *Rosa Barrineau*

BEACON DIGITAL MESSAGE VERIFICATION

SYNCHRONIZATION BIT #: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Should be: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Decoded: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

*** BIT SYNCHRONIZATION OK ***

FRAME SYNCHRONIZATION BIT #: 16 17 18 19 20 21 22 23 24

Should be: 0 0 0 1 0 1 1 1 1
Decoded: 0 0 0 1 0 1 1 1 1

*** FRAME SYNCHRONIZATION OK ***

MESSAGE TYPE: SHORT MESSAGE (bit 25 = 0)

DIGITAL MESSAGE IN HEXADECIMAL: A D C D 0 0 0 0 0 4 4 0 4 0 1 0 0 A A 9 A

BEACON BCH CODE VERIFICATION

BCH CODE BIT #: 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06

Should be: 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1
Decoded: 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1

*** BCH CODE OK ***

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - OPEN / SHORT / 3:1 VSWR PERFORMANCE

MEASUREMENT DATE: 4 Oct 2000 TIME: 13:56:28 MINIMUM TEMP

TESTED BY: C. Beh

APPROVED BY: Rosa Barrineau

DIGITAL MESSAGE IN BINARY:

BIT NUMBER:

1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 1 0 1 1 1 1 0 1 0 1 0 1 1 0 1 1 1 0 0 1 1

BIT NUMBER:

4 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0

BIT NUMBER:

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0 0 1 1 1 1
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2

0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1 0 1 0 0 0 0

WSPR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - SELF TEST VERIFICATION

MEASUREMENT DATE: 4 Oct 2000 TIME: 14:43:21

TESTED BY:

CBe

APPROVED BY:

Rosa Barrineau

FRAME SYNCHRONIZATION BIT #: 16 17 18 19 20 21 22 23 24

Should be: 0 1 1 0 1 0 0 0 0
Decoded: 0 1 1 0 1 0 0 0 0

NUMBER OF BURST DURING SELF TEST CYCLE: 1

440.3 ms
53 Sec Burst delay.
Flash rate 20 pmin.

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - SELF TEST VERIFICATION

MEASUREMENT DATE: 4 Oct 2000 TIME: 14:45:09

TESTED BY:

[Signature]

APPROVED BY:

Rosa Barrineau

BEACON DIGITAL MESSAGE VERIFICATION

SYNCHRONIZATION BIT #: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Should be: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Decoded: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

*** BIT SYNCHRONIZATION OK ***

FRAME SYNCHRONIZATION BIT #: 16 17 18 19 20 21 22 23 24

Should be: 0 0 0 1 0 1 1 1 1
Decoded: 0 1 1 0 1 0 0 0 0

*** ERROR IN FRAME SYNCHRONIZATION ***

Self test verification

MESSAGE TYPE: SHORT MESSAGE (bit 25 = 0)

DIGITAL MESSAGE IN HEXADECIMAL: A D C D 0 0 0 0 0 4 4 0 4 0 1 0 0 A A 9 A

BEACON BCH CODE VERIFICATION

BCH CODE BIT #: 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06

Should be: 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1
Decoded: 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1

*** BCH CODE OK ***

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - SELF TEST VERIFICATION

MEASUREMENT DATE: 4 Oct 2000 TIME: 14:45:45

TESTED BY: CTB

APPROVED BY: Rosa Barrineau

DIGITAL MESSAGE IN BINARY:

BIT NUMBER:

1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 0 1 0 0 0 0 0 1 0 1 0 1 1 0 1 1 0 0 1 1

BIT NUMBER:

4 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0

BIT NUMBER:

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0 0 1 1 1
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2

0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 1 1 0 1 0 0 0 0

WSMR ELECTRONIC PROVING GROUND, US ARMY, FORT HUACHUCA, ARIZONA

MANU: SEIMAC MODEL NO: PROFIND 406 SERIAL NO: 029

BEACON CERTIFICATION TEST RESULTS - SELF TEST VERIFICATION

MEASUREMENT DATE: 4 Oct 2000 TIME: 14:54:22 121.5 spurious

TESTED BY:

C. B. B.

APPROVED BY:

Rosa Barrineau

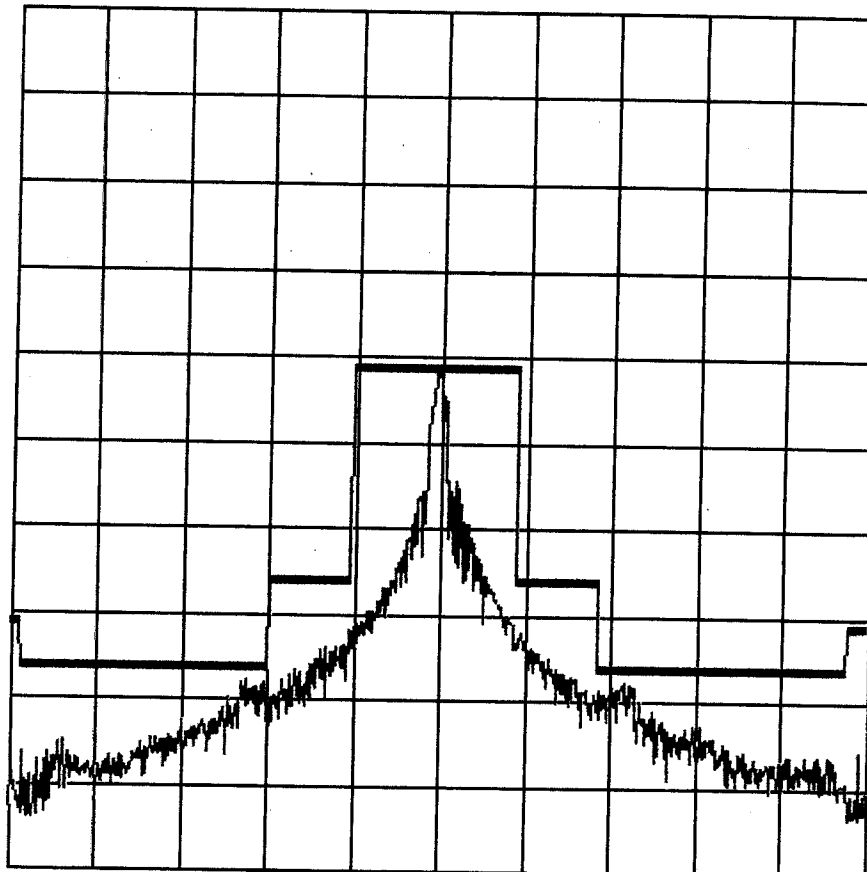
REF 20 dBm

4 Oct 2000

10 dB/

CENTER: 121.5MHz

SPAN: 130KHz



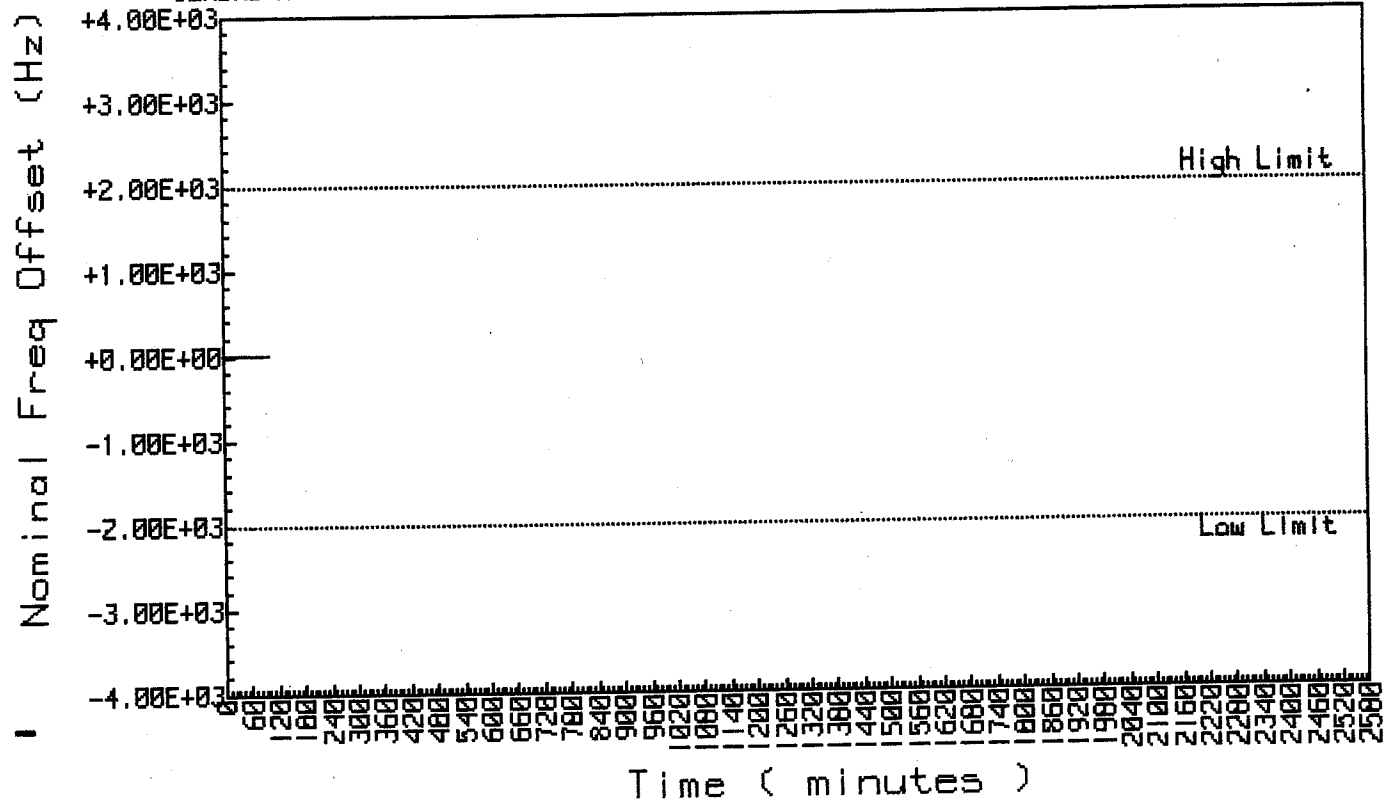
SPURIOUS EMISSIONS SPECTRUM

ANNEX II. THERMAL SHOCK TEST

THERMAL SHOCK TEST BEACON NOMINAL FREQUENCY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

DATE: 6 Oct 2000
TESTED BY: *J. B. L.*
APPROVED: *R. Barineau*



THERMAL SHOCK TEST BEACON SHORT TERM STABILITY

MANUFACTURER: SEIMAC

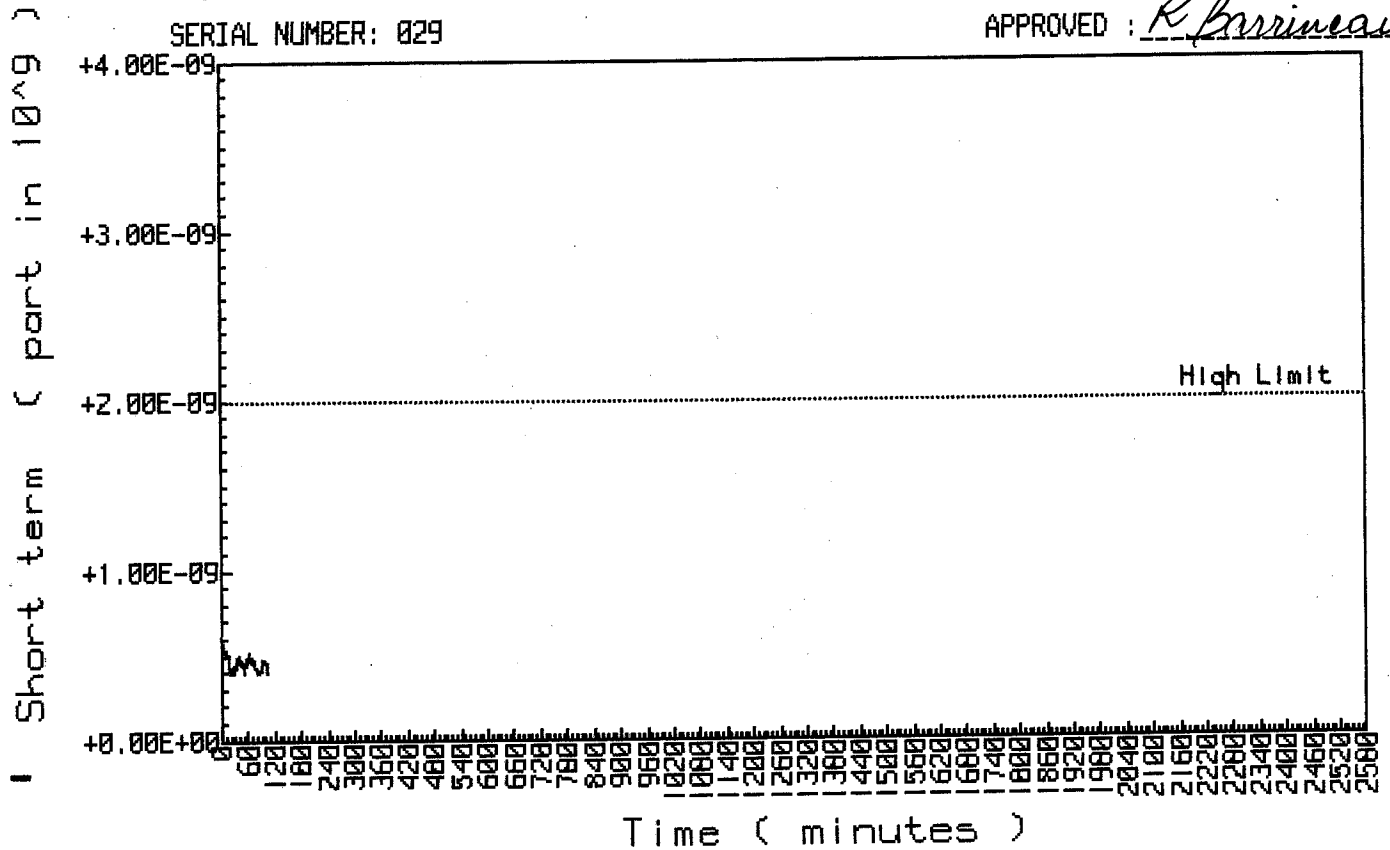
MODEL NUMBER: PROFIND 406

SERIAL NUMBER: 029

DATE: 6 Oct 2000

TESTED BY: CBL

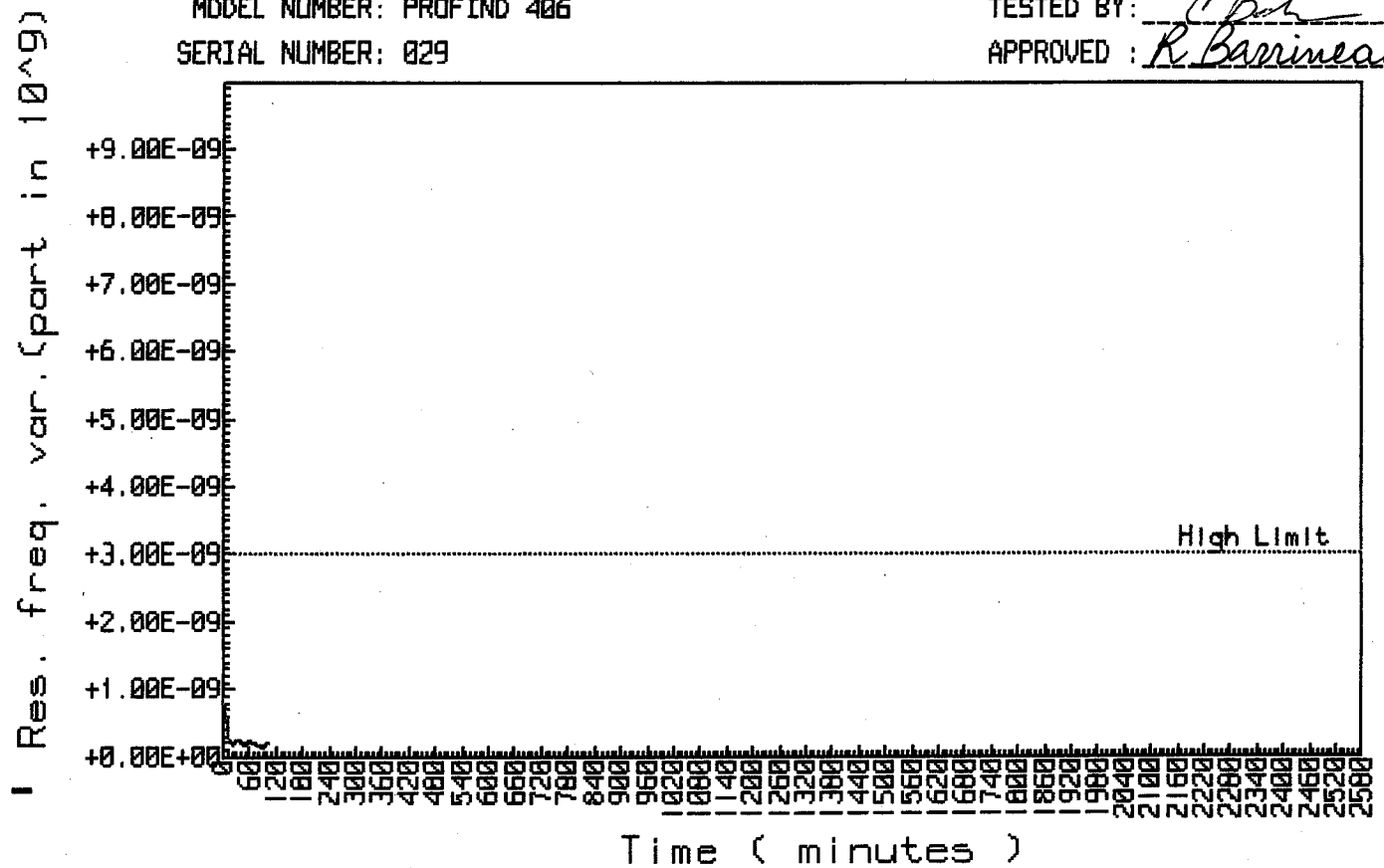
APPROVED: R. Berrineau



THERMAL SHOCK TEST BEACON MEDIUM TERM STABILITY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

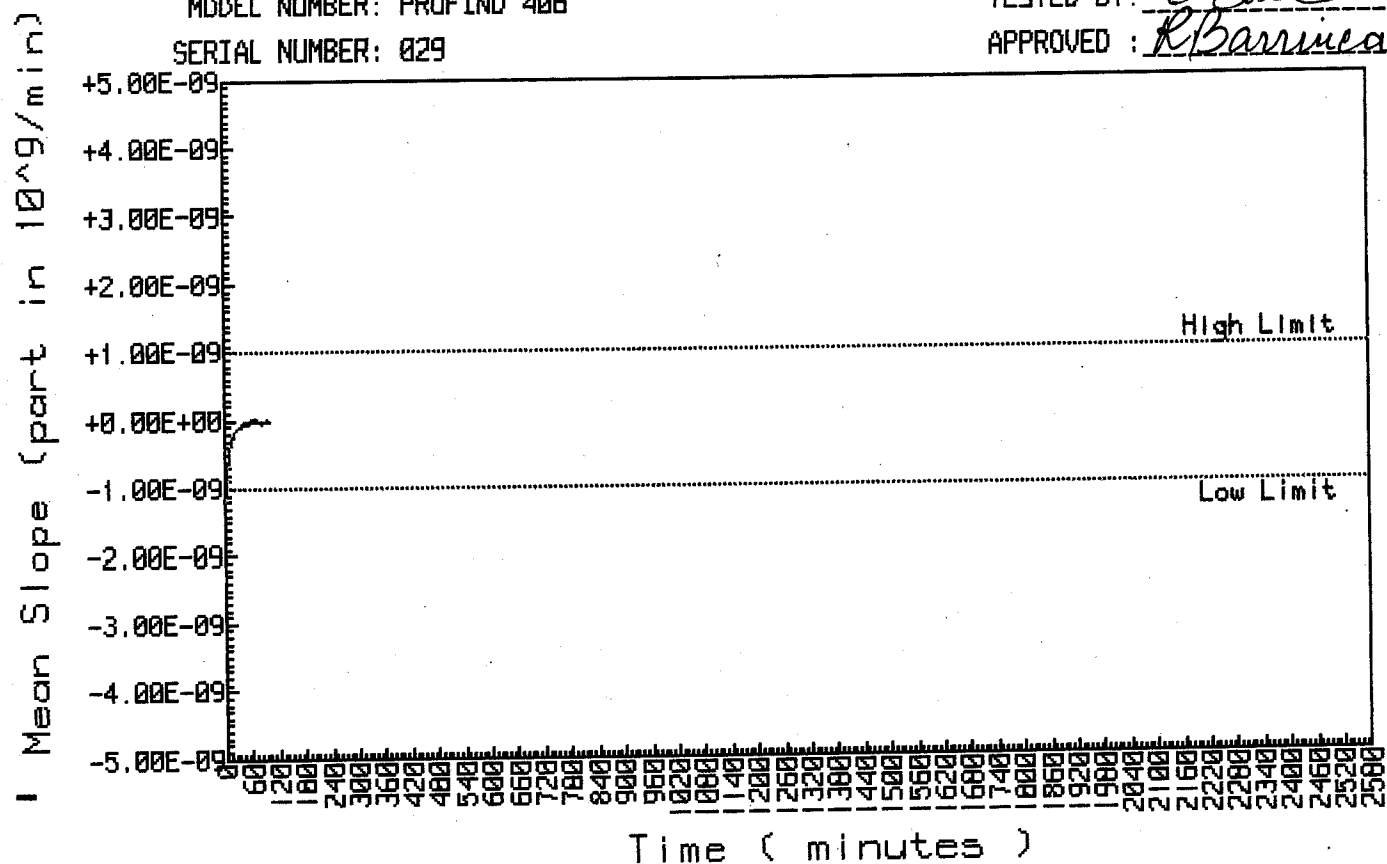
DATE: 6 Oct 2000
TESTED BY: *C. B. B.*
APPROVED: *R. Barrineau*



THERMAL SHOCK TEST BEACON MEDIUM TERM STABILITY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

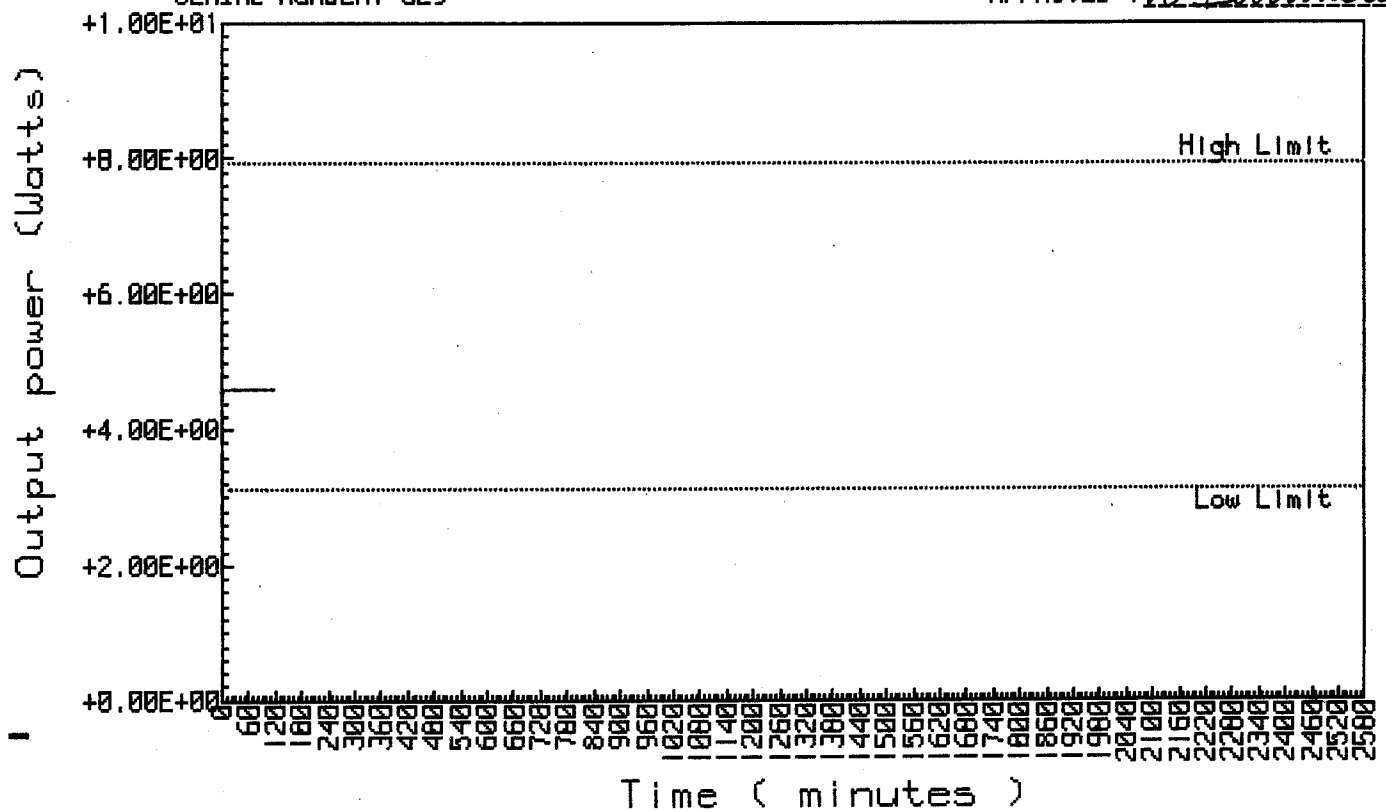
DATE: 6 Oct 2000
TESTED BY: C. Boh
APPROVED: R. Barrineau



THERMAL SHOCK TEST 406 SIGNAL OUTPUT POWER

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

DATE: 6 Oct 2000
TESTED BY: *C. Bell*
APPROVED: *R. Barriman*



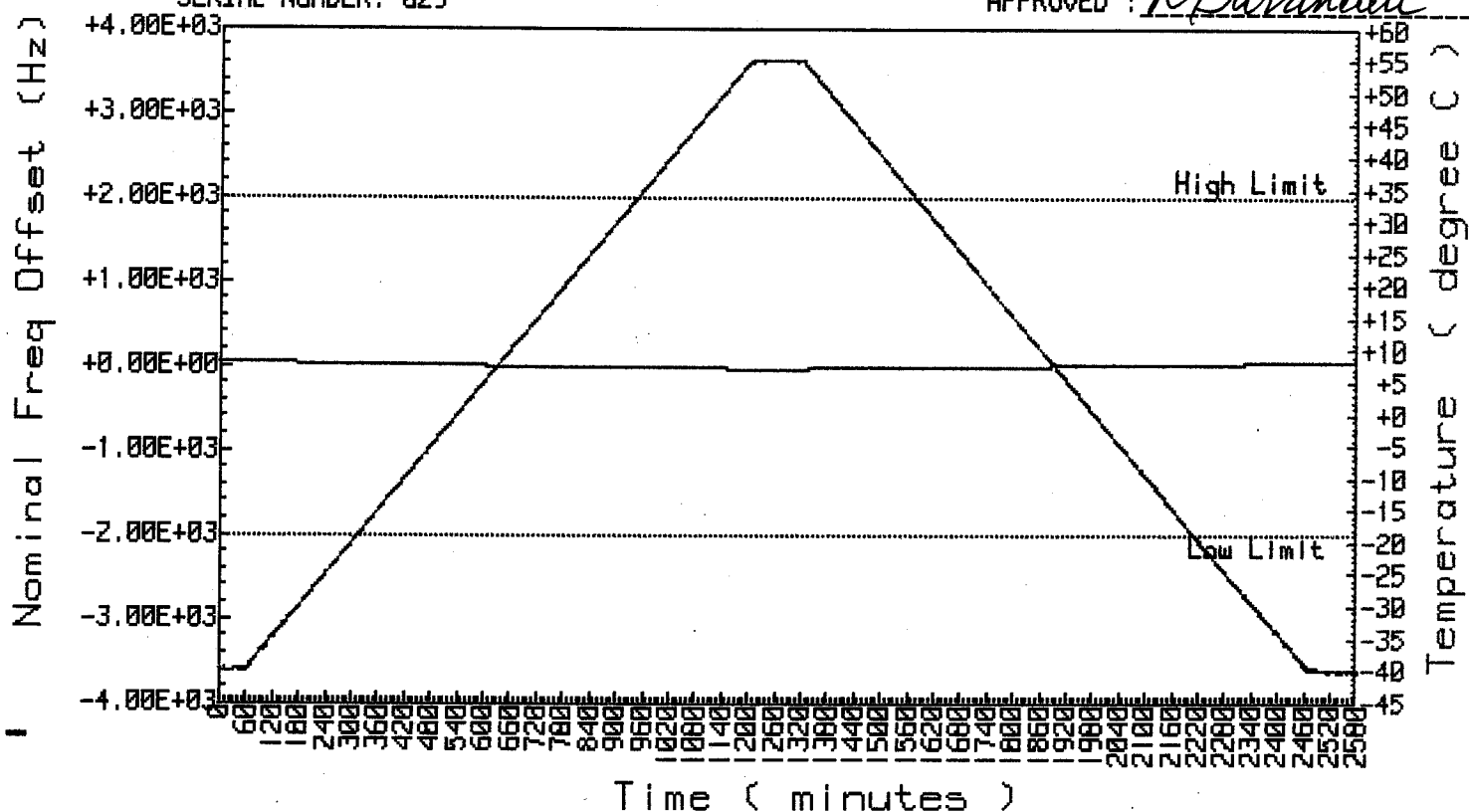
Intentionally Blank

ANNEX III. FREQUENCY STABILITY TEST WITH TEMPERATURE GRADIENT

TEMPERATURE GRADIENT TEST BEACON NOMINAL FREQUENCY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

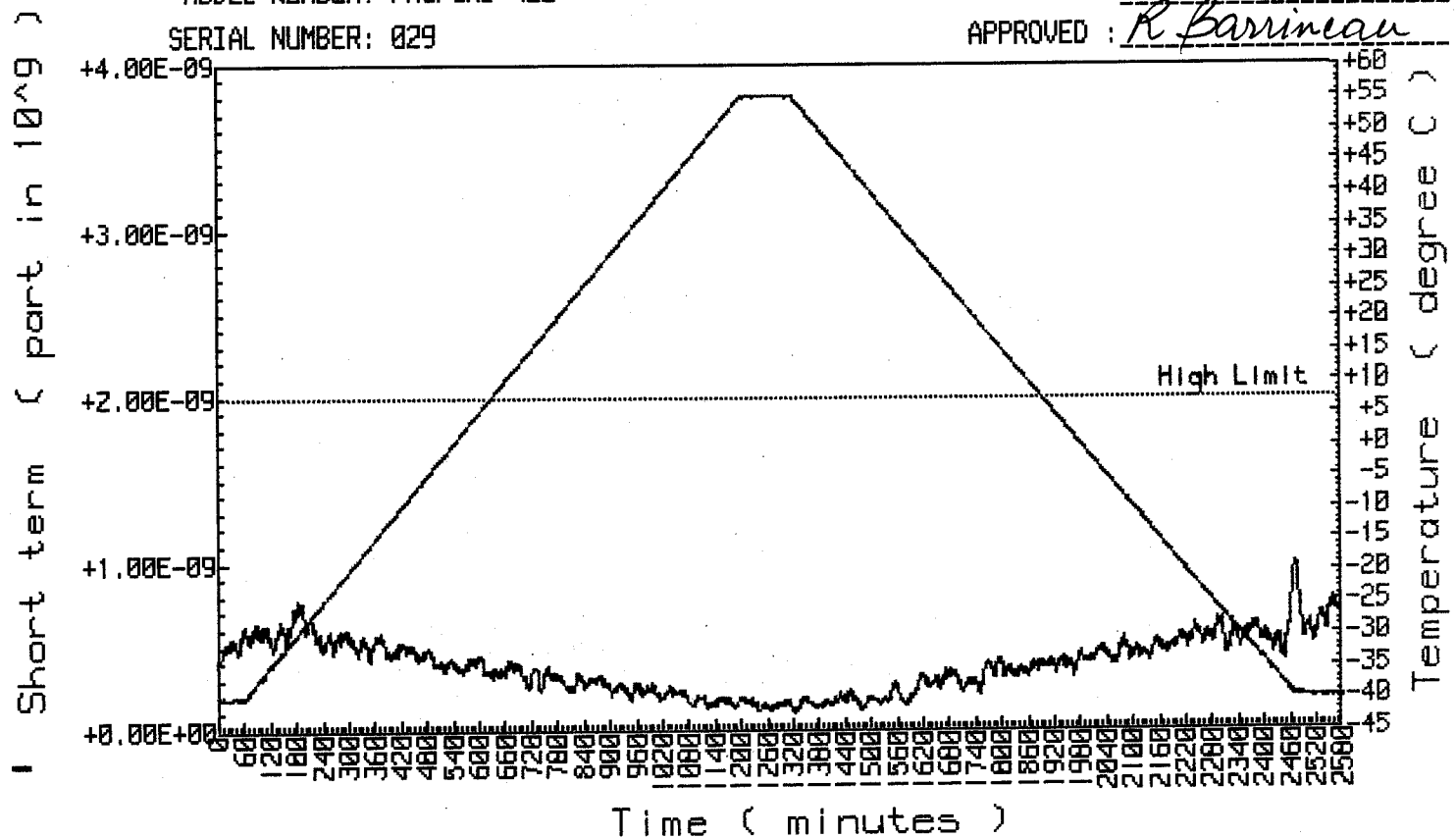
DATE: 4 Oct 2000
TESTED BY: *C. Buh*
APPROVED: *R. Barrineau*



TEMPERATURE GRADIENT TEST BEACON SHORT TERM STABILITY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

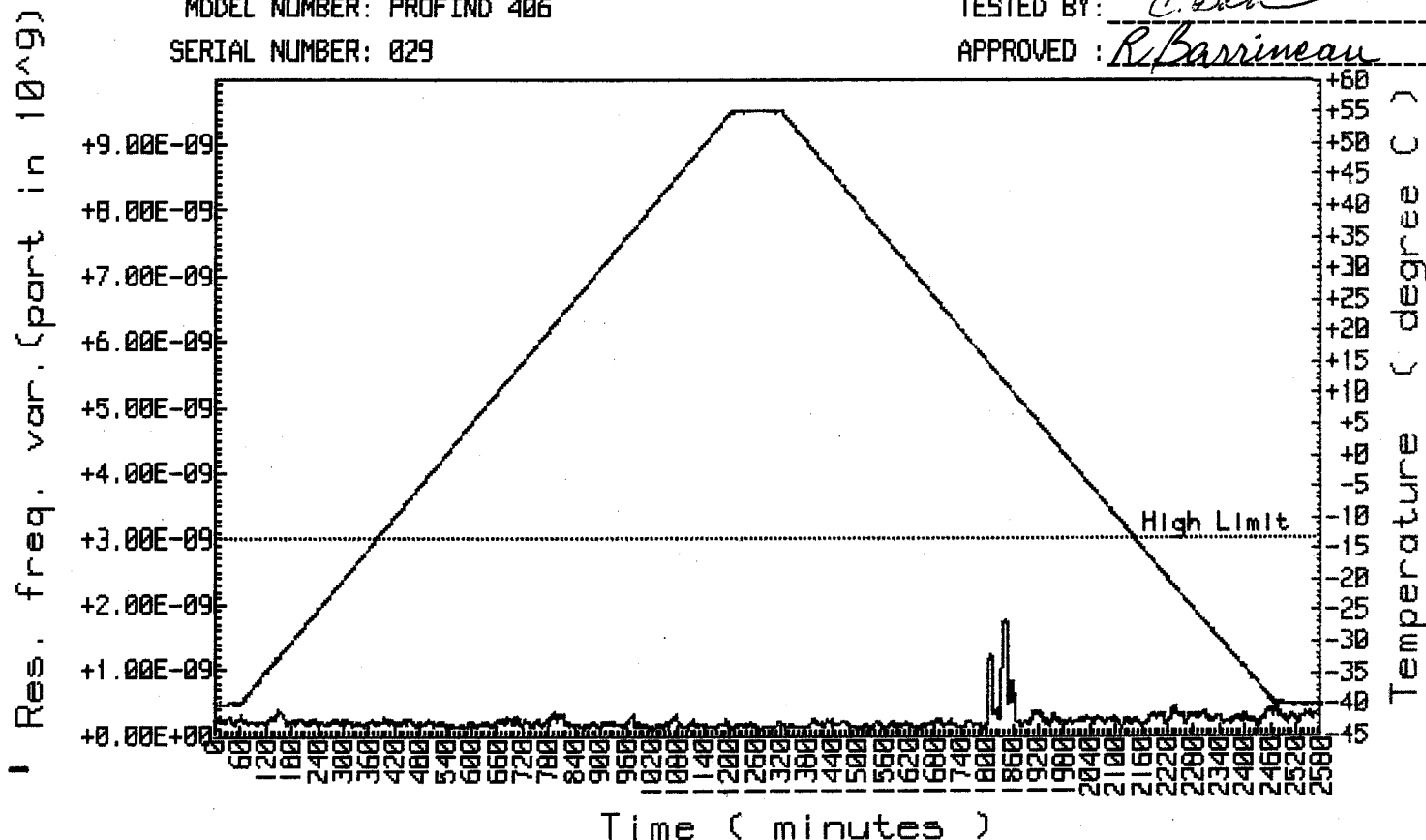
DATE: 4 Oct 2000
TESTED BY: *C. Bah*
APPROVED: *R. Barrineau*



TEMPERATURE GRADIENT TEST BEACON MEDIUM TERM STABILITY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

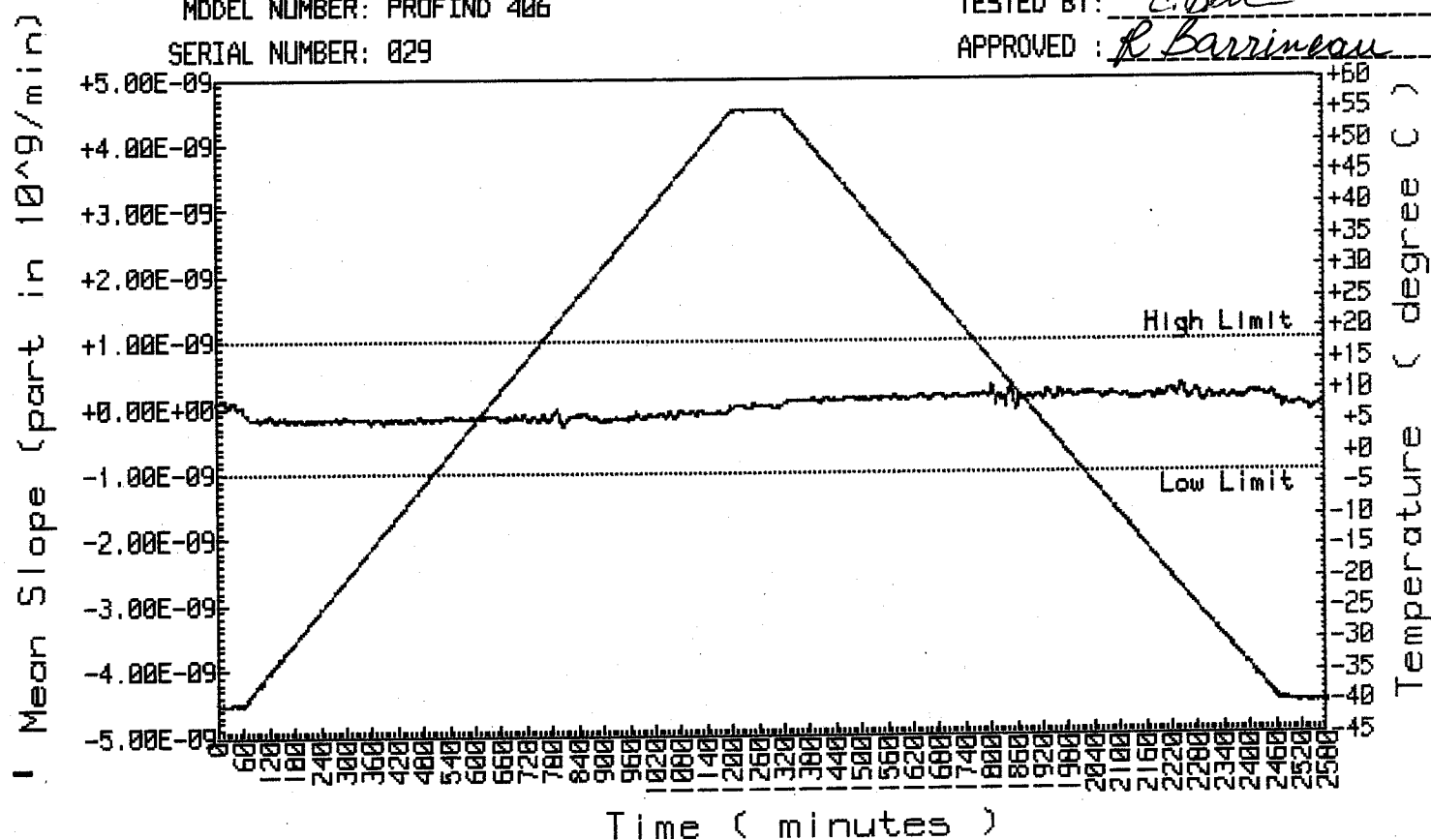
DATE: 4 Oct 2000
TESTED BY: *C. Bob*
APPROVED: *R. Barrineau*



TEMPERATURE GRADIENT TEST BEACON MEDIUM TERM STABILITY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

DATE: 4 Oct 2000
TESTED BY: *C. Beh*
APPROVED: *R. Barrineau*



TEMPERATURE GRADIENT TEST 406 SIGNAL OUTPUT POWER

MANUFACTURER: SEIMAC

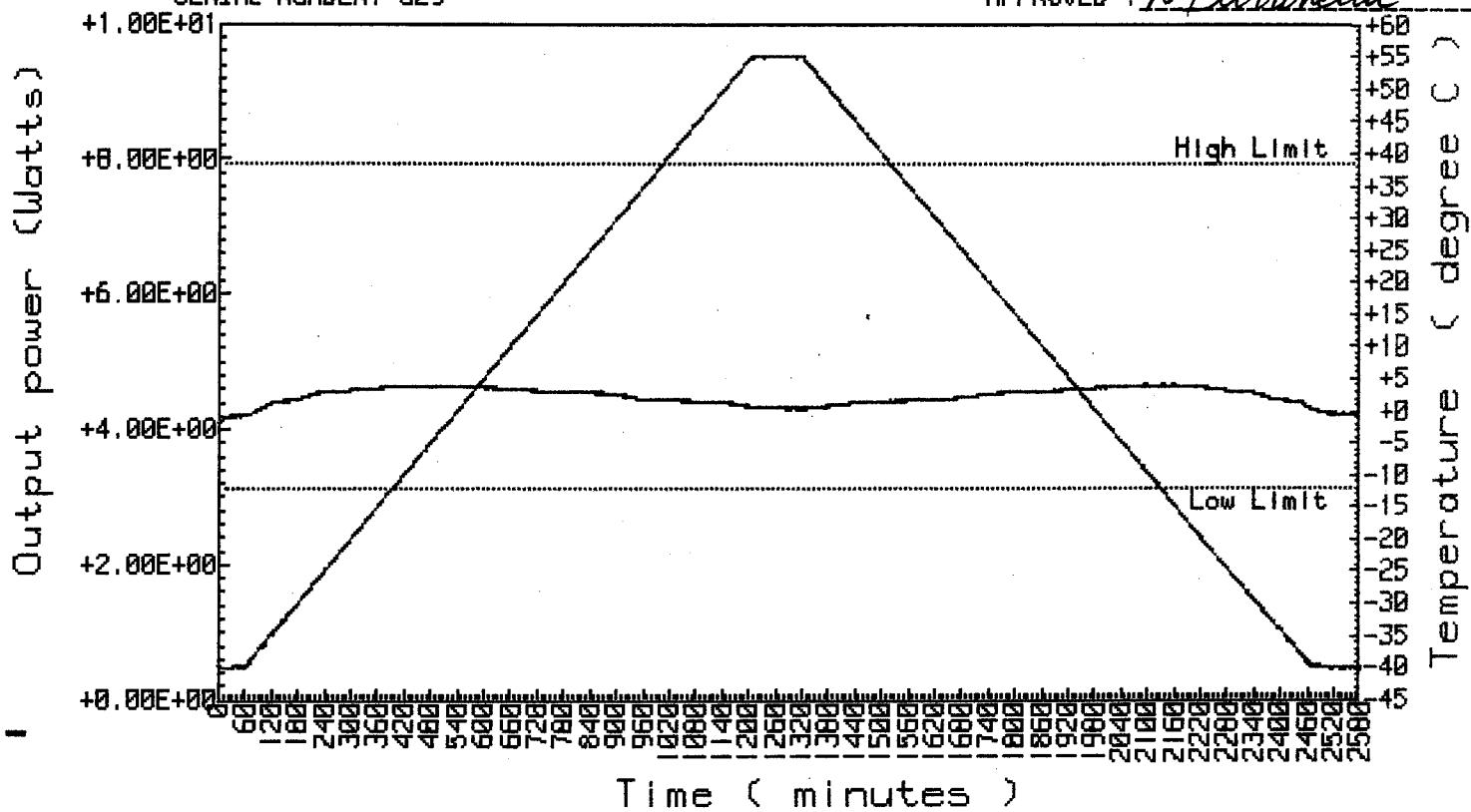
MODEL NUMBER: PROFIND 406

SERIAL NUMBER: 029

DATE: 4 Oct 2000

TESTED BY: *C. Behr*

APPROVED: *R. Barrineau*



Intentionally Blank

ANNEX IV. OPERATING LIFETIME AT MINIMUM TEMPERATURE

BEACON NOMINAL FREQUENCY
ETERN BATTERY

ETERN

MANUFACTURER: SEIMAC

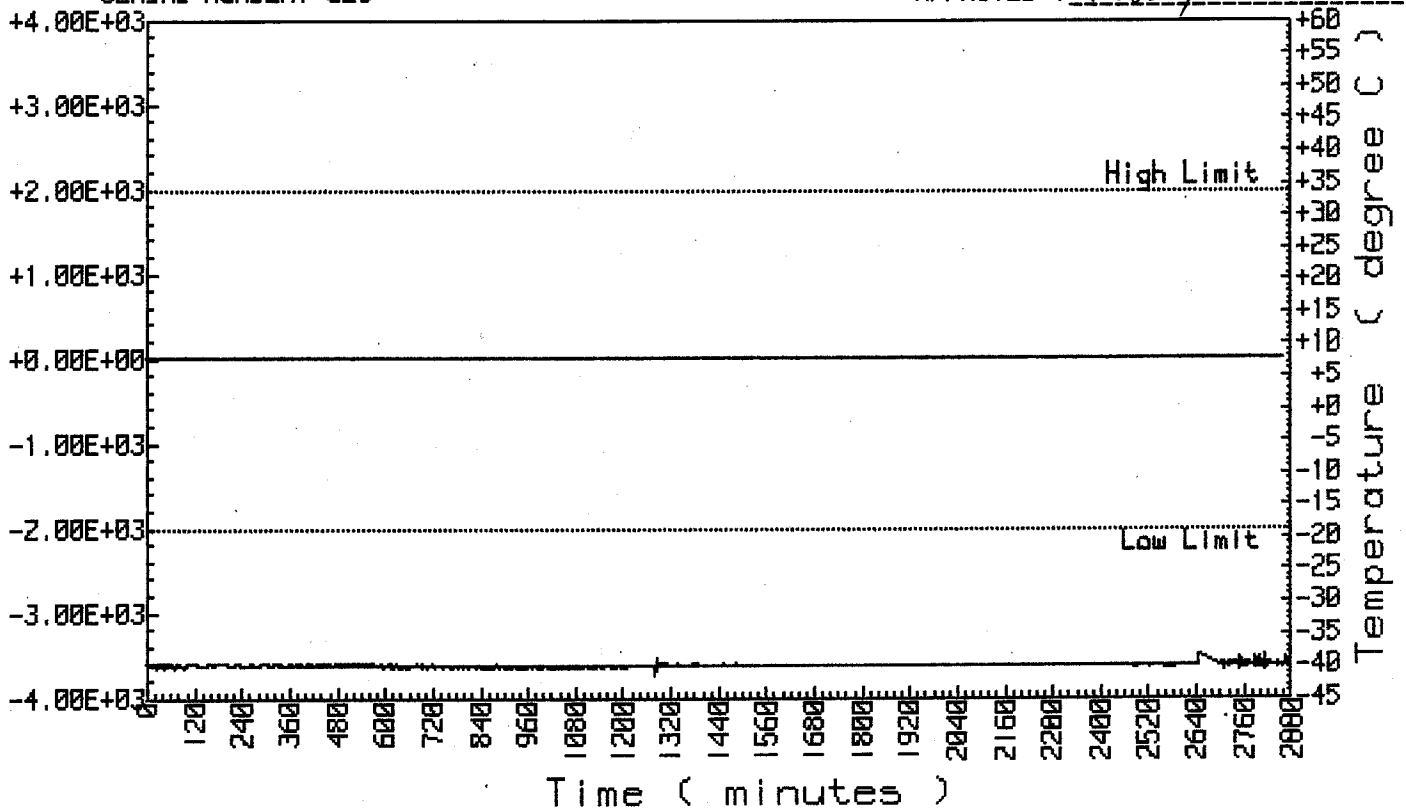
DATE: 11 Oct 2000

MODEL NUMBER: PROFIND 406

TESTED BY: *J. C. 7/16*

SERIAL NUMBER: 029

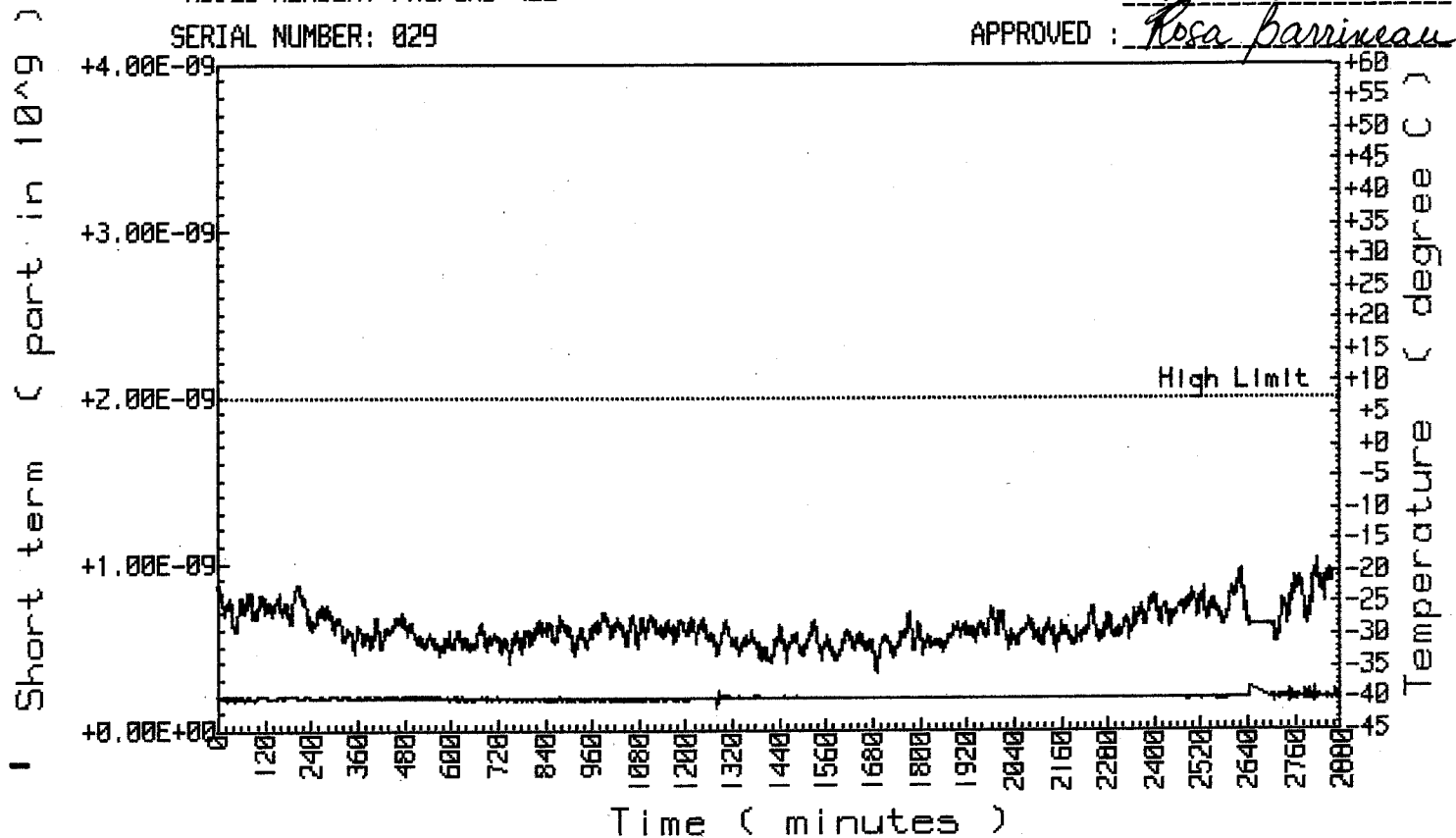
APPROVED: *Rosa Barineau*



BEACON SHORT TERM STABILITY ETERN BATTERY

MANUFACTURER: SEIMAC
MODEL NUMBER: PROFIND 406
SERIAL NUMBER: 029

DATE: 11 Oct 2000
TESTED BY: *[Signature]*
APPROVED: *Rosa Barrineau*



BEACON MEDIUM TERM STABILITY ETERN BATTERY

MANUFACTURER: SEIMAC

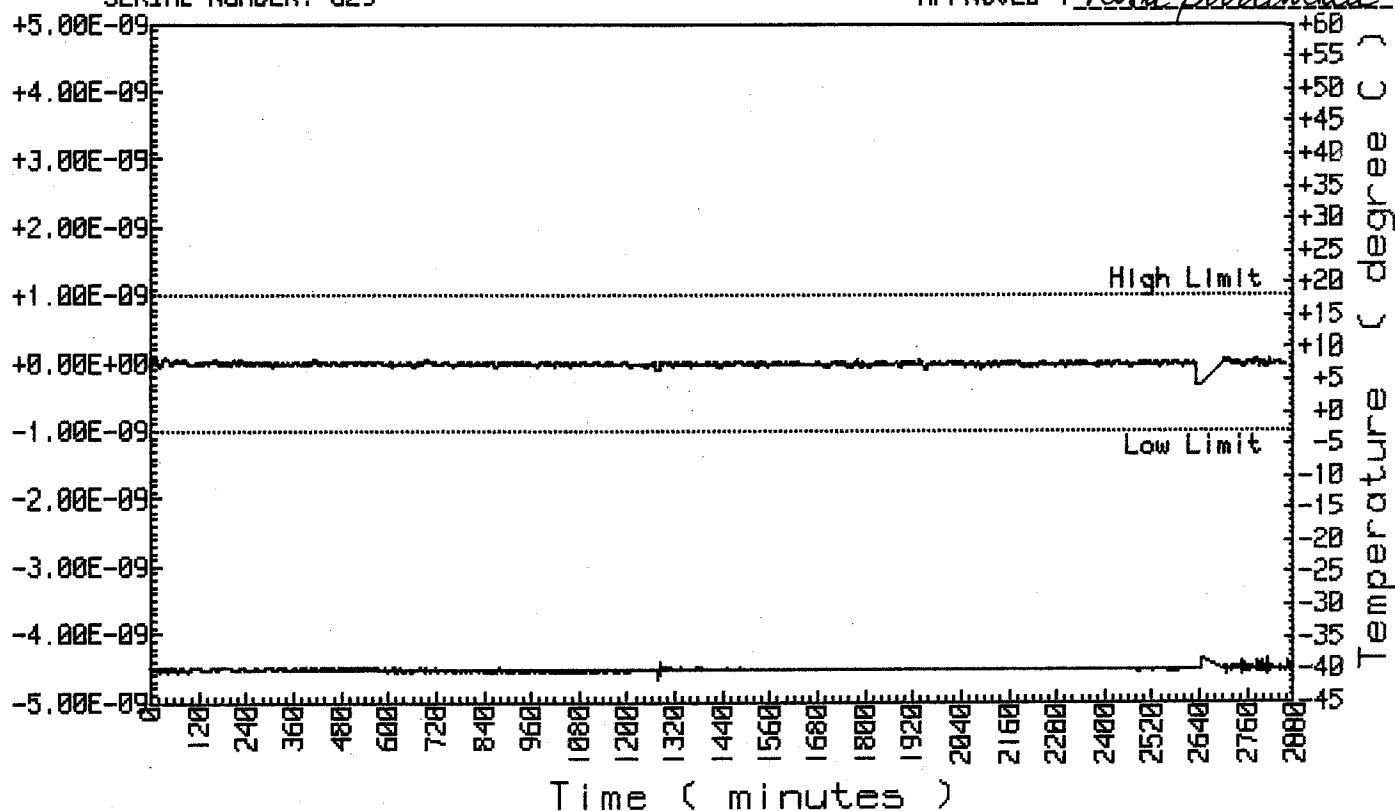
MODEL NUMBER: PROFIND 406

SERIAL NUMBER: 029

DATE: 11 Oct 2000

TESTED BY: *J. C. 7/16*

APPROVED: *Rosa Farrineau*

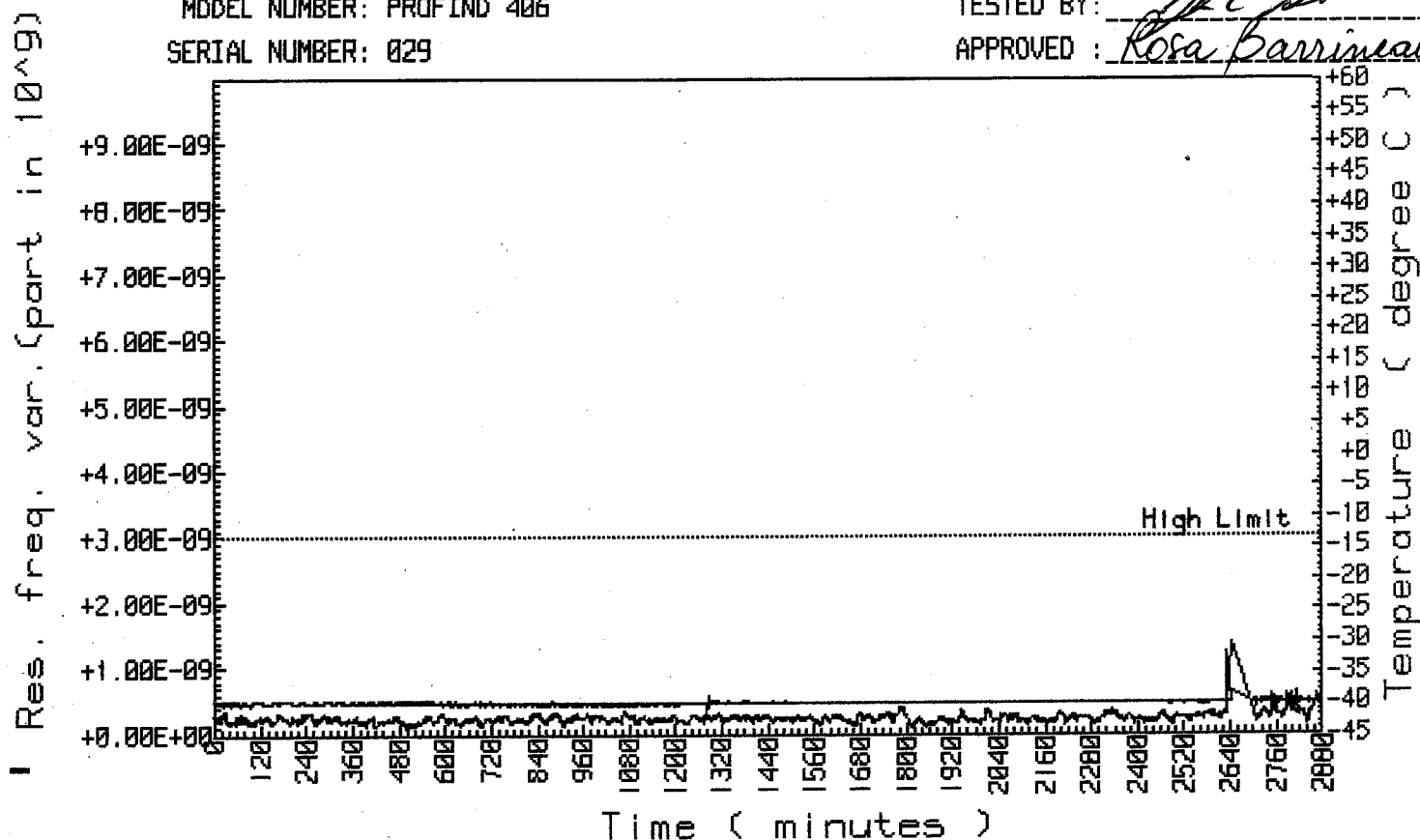


BEACON MEDIUM TERM STABILITY

ETERN BATTERY

MANUFACTURER: SEIMAC
 MODEL NUMBER: PROFIND 406
 SERIAL NUMBER: 029

DATE: 11 Oct 2000
 TESTED BY: *MC 214*
 APPROVED: *Rosa Barrineau*



406 SIGNAL OUTPUT POWER ETERN BATTERY

MANUFACTURER: SEIMAC

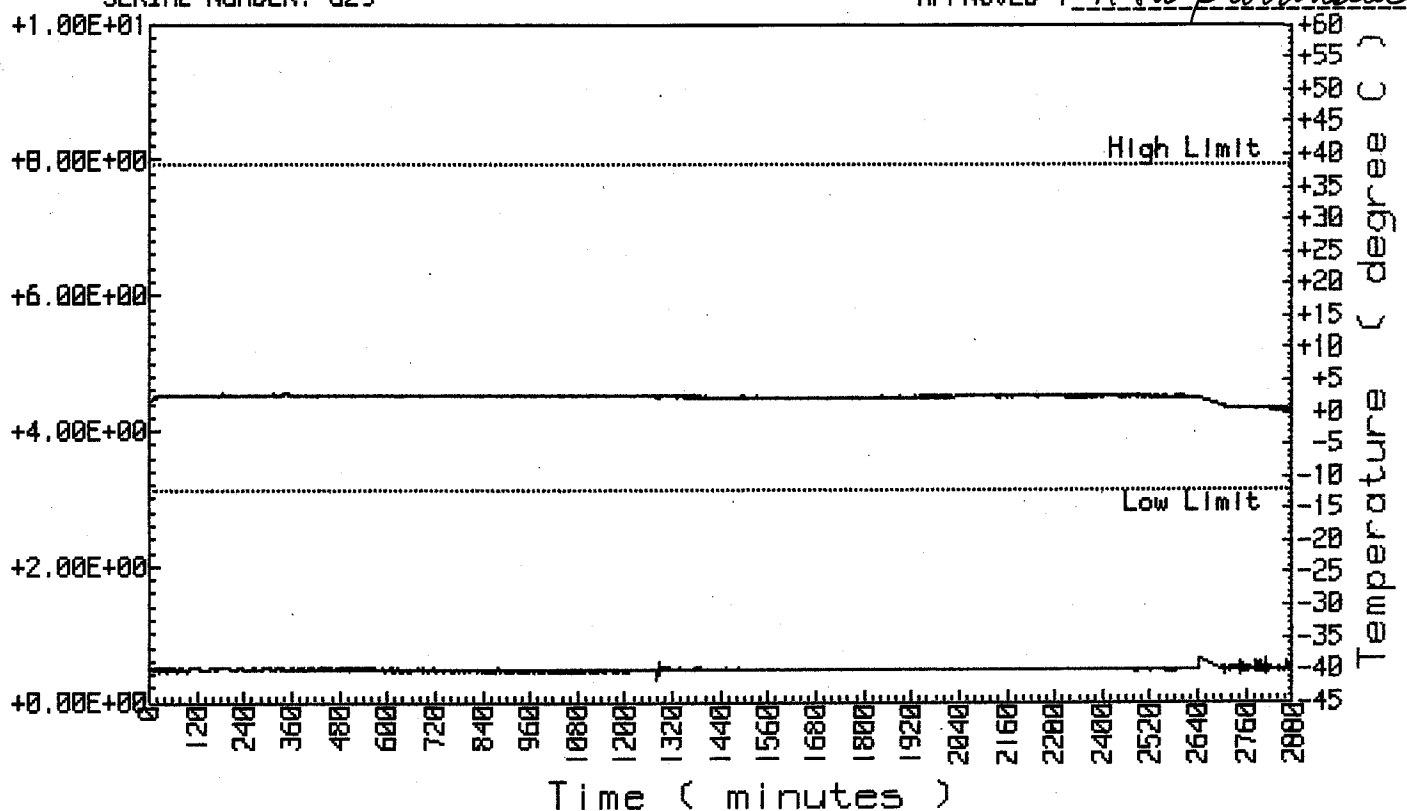
MODEL NUMBER: PROFIND 406

SERIAL NUMBER: 029

DATE: 11 Oct 2000

TESTED BY: *HCJH*

APPROVED: *Rosa Barrineau*



BEACON NOMINAL FREQUENCY

SAFT

SAFT BATTERY

MANUFACTURER: SEIMAC

DATE: 14 Oct 2000

MODEL NUMBER: PROFIND 406

TESTED BY: *[Signature]*

SERIAL NUMBER: 029017 JCH

APPROVED: *Rosa Barriman*

