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**ENGINEERING, INC.***"One World, One EMC Solution"*Please upload
to exhibit #6**FACSIMILE MESSAGE**Bill Inglis
X 3042

DATE: 11-30-99 # of pages, (including Cover): 1
TO: Bill Inglis FAX #: 301 344-2050
@: FCC REF: Corresp. Ref # 10358
FROM: Bryan Broadbent 731 Conf # EA95198
JPL Communications FCC ID: BBD6-IAB-L

*Family owned and operated since 1979*3535 W. Commonwealth Ave. • Fullerton, CA 92833 • Tel. 714/870-7781 • Fax 714/870-5081 • www.dnbenginc.com

Frequency range and Rule changes
 10/26/99 7:34:20 AM Pacific Standard Time
 oetech@fccsun07w.fcc.gov (OET)
 bryan@dnbenginc.com

Bryan Broaddus, DNB Engineering, Inc.
 Bill Inglis
 binglis@fcc.gov
 FCC Application Processing Branch

FCC ID BBD8-1AB-L
 Applicant: TPL Communications Inc
 Correspondence Reference Number: 10358
 Confirmation Number: EA95198
 Date of Original E-Mail: 10/26/1999

FCC
 LETTER

frequency range you have requested is 380-470MHz. We are unable to find any frequencies below 408MHz. Please revise your range or describe the specific radio service in which you intend operation of this amplifier.

Please submit an input occupied bandwidth, OBW, and conducted spurious, and an output OBW and conducted spurious comparison for each Rule part requested.

Please confirm that the amplifier is intended for single channel use or submit 3 signal intermodulation measurement data.

There is no longer a type acceptance program. The Rule Parts which you referenced in your report no longer exist.

Items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal pursuant to section 2.917 (c) and forfeiture of the filing fee pursuant to section 1.1108.

DO NOT reply to this e-mail by using the Reply button. In order for your response to be processed expeditiously, you must send your response via the Internet at www.fcc.gov, Electronic Filing, OET Equipment Authorization Electronic Filing. If the response is submitted through Add Attachments, in order to expedite processing, a message which informs the processing staff that a new exhibit has been submitted must also be submitted via Submit Correspondence. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

Headers

Return-Path: <dnbriv@www25.web2010.com>
 Received: from rly-yb05.mx.aol.com (rly-yb05.mail.aol.com [172.18.146.5]) by air-yb02.mail.aol.com (v62.10) with ESMTP; Tue, 26 Oct 1999 11:34:20 -0400
 Received: from www25.web2010.com (www25.web2010.com [216.157.23.254]) by rly-yb05.mx.aol.com (v62.10) with ESMTP; Tue, 26 Oct 1999 11:34:00 -0400
 Received: by www25.web2010.com (8.9.3/8.9.0) id LAA18035 for SSFA7568@aol.com; Tue, 26 Oct 1999 11:33:28 -0400 (EDT)
 Received: from gatekeeper.fcc.gov (firewall-user@gatekeeper.fcc.gov [192.104.54.1]) by www25.web2010.com (8.9.3/8.9.0) with ESMTP id LAA18031 for <bryan@dnbenginc.com>; Tue, 26 Oct 1999 11:33:28 -0400 (EDT)
 Received: by gatekeeper.fcc.gov; id LAA01598; Tue, 26 Oct 1999 11:33:54 -0400 (EDT)
 Received: from fccsun07w.fcc.gov (165.135.80.56) by gatekeeper.fcc.gov via smap (4.1) id xma000083; Tue, 26 Oct 99 11:32:55 -0400
 Received: by fccsun07w.fcc.gov (SMI-8.6/SMI-SVR4) id LAA07858; Tue, 26 Oct 1999 11:33:04 -0400



November 18, 1999

Bill Inglis
FEDERAL COMMUNICATIONS COMMISSION
Authorization & Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

RE: Reference Number : 10358
731 Confirmation #: EA95198
FCC ID: BBD6-1AB-L

Dear Mr. Inglis:

We have included a proposed label for your review. For this application the lower frequency will be limited to 406 MHz.

Additional OBW and Conducted Spurious plots are attached.

This is a class "C" amplifier and is intended for single channel use only.

If you have any additional questions please do not hesitate to call.

Sincerely,

Bryan C. Broaddus
V.P., Operations

SECTION IV - Enter FCC ID from Page 1, Section I **BBD6-1AB-L**

a) Instead of Applicant, FCC is authorized to mail original Grant to: (See Instructions)

Firm name, DNB ENGINEERING, INC.
 number, street, 3535 W. Commonwealth Avenue
 City, State/Country, Fullerton, CA USA
 ZIP/Postal Code 92833

b) Name, Title and Mail Stop, if any, of person at above address to receive Grant: (If 1.(a) is completed, this item must be completed)

Bryan C. Broaddus, Vice President, Operations

c) Technical contact:

Firm name, DNB ENGINEERING, INC.
 contact person, Bryan C. Broaddus
 number, street, 3535 W. Commonwealth Avenue
 City, State/Country, Fullerton, CA USA
 ZIP/Postal Code 92833

(b) Telephone No. (Area/Country/City code, No. and Ext.)

(714) 870-7781

(c) FAX No. (Area/Country/City code and No.)

(714) 870-5081

Internet e-mail address:

Non-Technical contact:

Firm name,
 contact person,
 number, street, N/A
 City, State/Country,
 ZIP/Postal Code

(f) Telephone No. (Area/Country/City code, No. and Ext.)

(g) FAX No. (Area/Country/City code and No.)

Internet e-mail address:

Does this application include a request for confidentiality for any portion(s) of the data contained in this application pursuant to 47 CFR §0.459 of the Commission's Rules? If "Yes" see Instructions.

☐ Yes☒ No

Does the applicant request that the Commission defer grant of this application pursuant to 47 CFR §0.457(d)(1)(ii)? (See Instructions)

☐ Yes☒ No

Type of equipment authorization requested: (check one box only)

☒ Certification☐ Type Acceptance☐ Notification

Equipment Code and description: (See Instructions, page 4)

T N B Non Broadcast Station Trans

(b) Equipment will be operated under FCC Rule Part(s):

Part 22 & Part 90

Application is for: (Check one box only)

☒ 1. Original equipment
(See Instructions)☐ 2. Change in identification of presently authorized equipment☐ 3. Class II permissive change or modification of presently authorized equipment
(See Instructions)

ORIGINAL FCC ID

Grant date

EQUIPMENT SPECIFICATIONS: (See Instructions)

(a) Frequency range in MHz	(b) Rated RF power output in watts	(c) Frequency tolerance %, Hz, ppm	(d) Emission designator (See 47 CFR §2.201 and §2.202)	(e) Microprocessor model number
406 - 470 MHz	45 Watts	N/A	F3E	N/A

Is the equipment in this application:

(a) a composite device subject to more than one type of equipment authorization?

☐ Yes☒ No

(b) part of a system that operates with, or is marketed with, another device that requires an equipment authorization?

☐ Yes☒ No

If either of the above questions is answered "Yes" complete items 10.(a) and (b). (See Instructions)

COMPLETE, SIGN and DATE Page 3

2.983(d) Technical Description

See the Service Manual Included in Appendix B herein for the complete description.

2.983(d)(1) Type(s) of Emissions

F3E

2.983(d)(2) Frequency Range

406 MHz to 470 MHz

2.983(d)(3) Operating Power Level

45 Watts

2.983(f) FCC ID: Label

RF POWER AMPLIFIER

MODEL NO.	MODE	FREQ 406 – 470 MHz
VOLTAGE	INPUT PWR	OUTPUT PWR
FCC ID: BBD6-1AB-L	SERIAL NO.	

NOTES:

Label will be constructed of 0.02 inch aluminum as shown on the equipment with permanent adhesive.

All information on the label will be etched or stamped. Both methods will exceed the expected lifetime of the equipment.

The label will be large enough to allow all information to be legible.

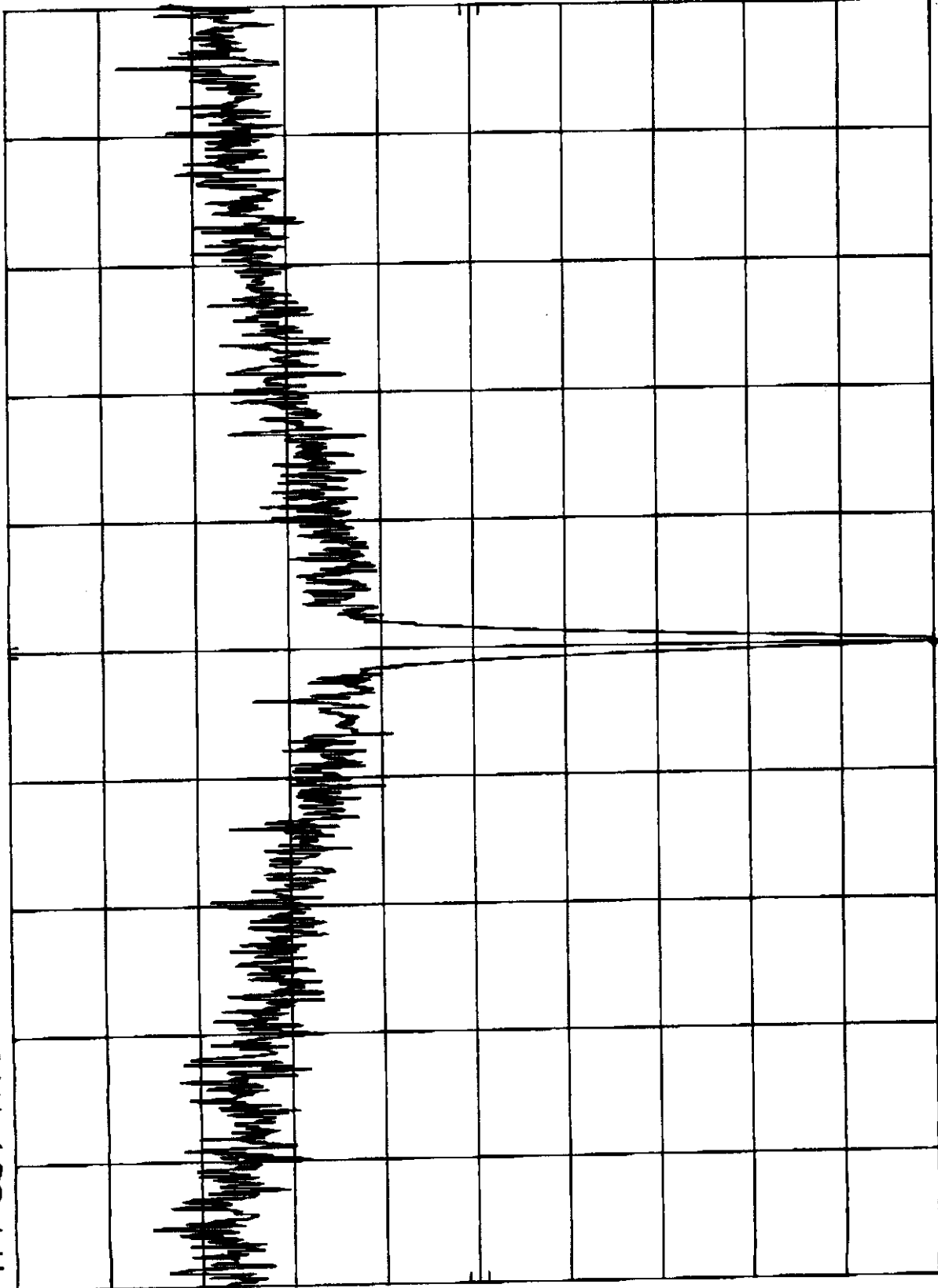
Unmodulated Carrier Driver

FCC ID: B6D4-1AB-L

INPUT 5 WATTS POWER
REF 37.0 dBm ATTEN 10 dB

MKR 420.000 1 MHz
37.00 dBm

10 dB/
POS PK
OFFSET
60.0
dB



CENTER 420.000 MHz

RES BW 300 Hz

VBW 1 kHz

SPAN 100 kHz
SWP 3.00 sec

Occupied Bandwidth

Driver

FCC ID: BBD-1A8-L

HP

INPUT 5 WATTS POWER
REF 37.0 dBm ATTEN 10 dB

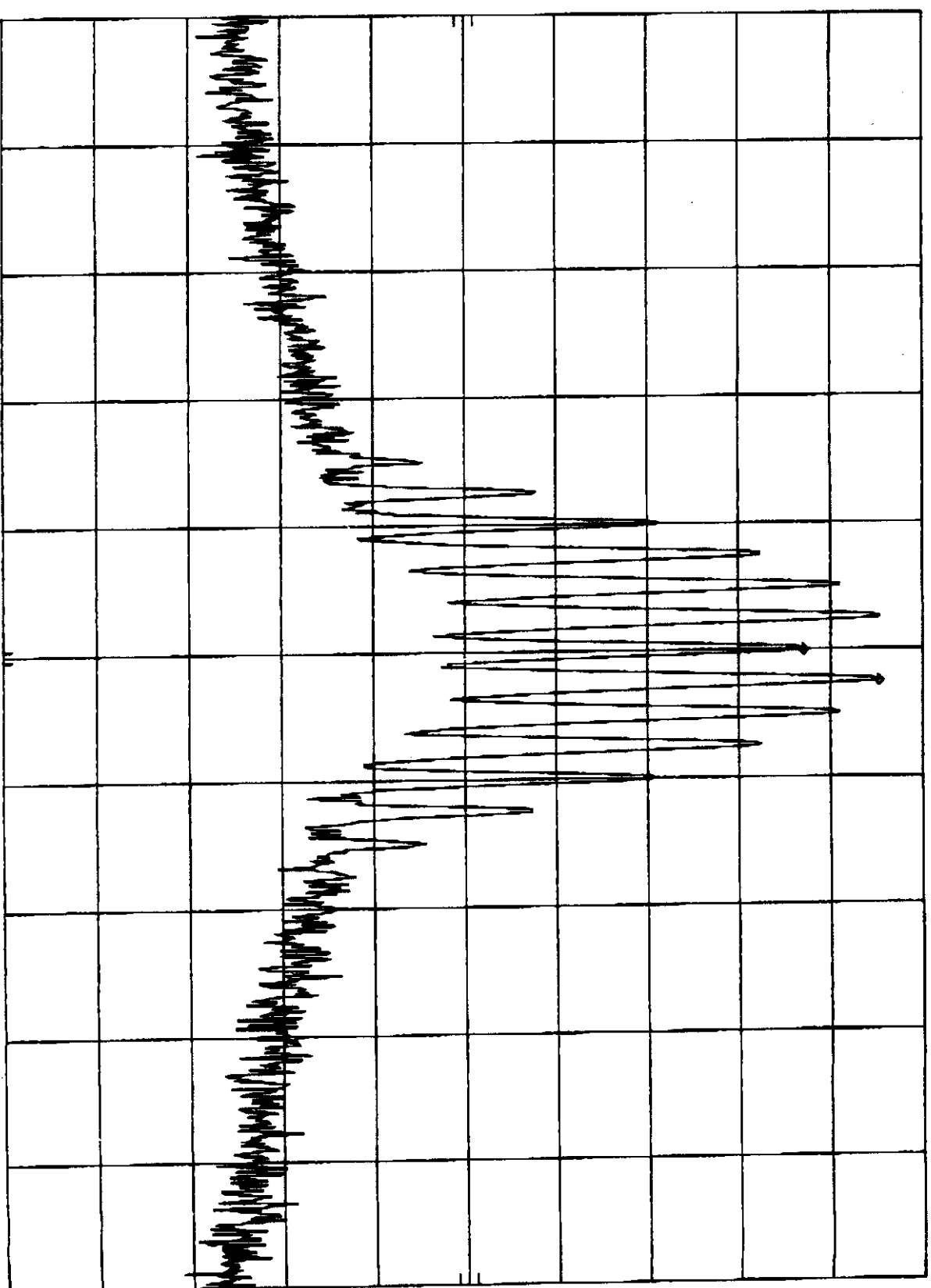
MKR Δ 2.5 KHz
9.20 dB

10 dB/

POS PK

OFFSET

60.0
dB



CENTER 420.000 MHz
RES BW 300 Hz

VBW 1 kHz

SPAN 100 kHz
SMP 3.00 sec

Antenna Conducted Spurious

Driver

FCC ID: BBD4-1A8-L

HP

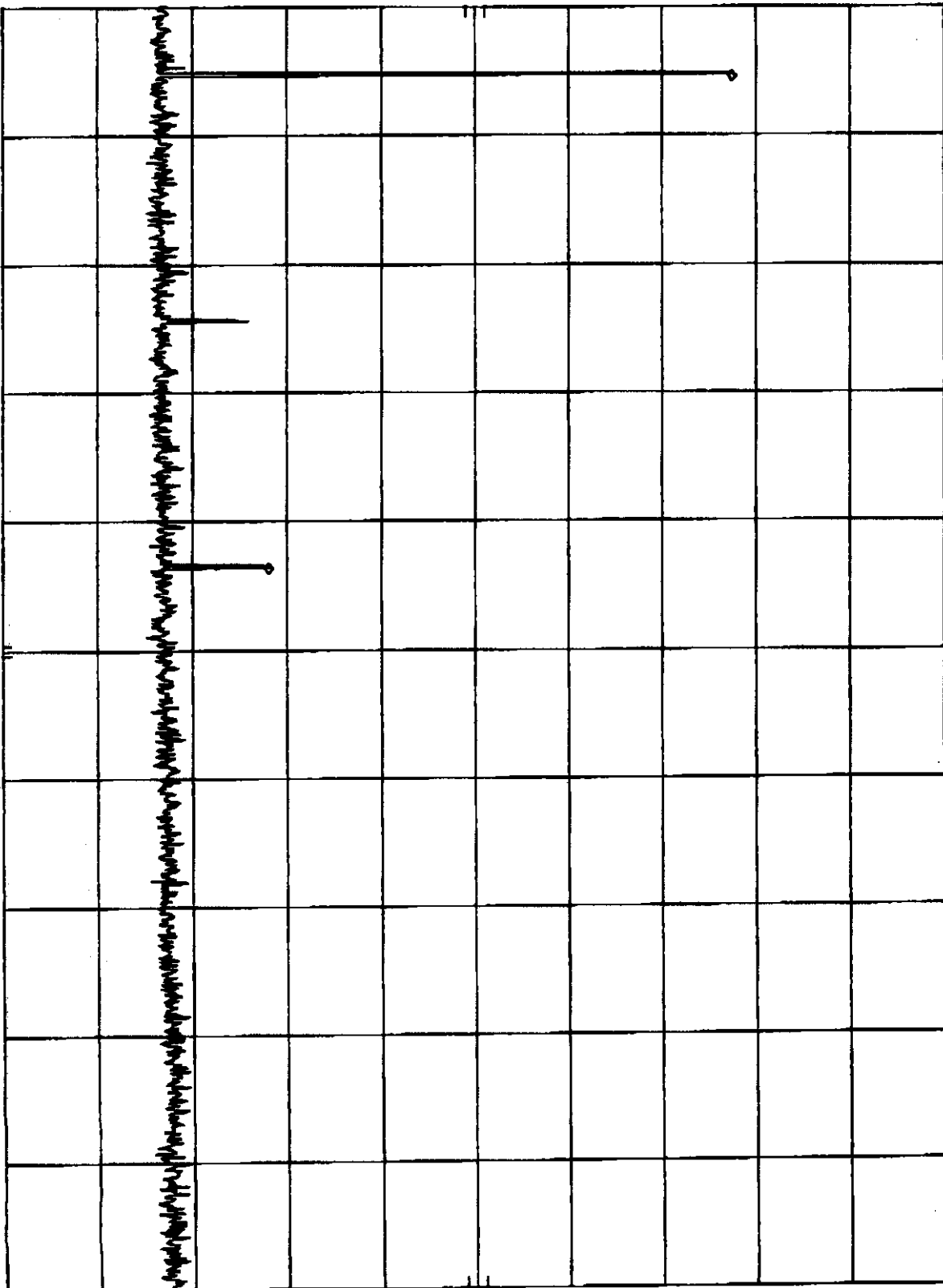
5 WATTS INPUT ANT. CONDUCTED SPURIOUS
REF -93.0 dBm ATTEN 10 dB

MKR Δ 840 MHz
-49.40 dB

10 dB/

POS PK

OFFSET
-93.0
dB



START 300 MHz

RES BW 30 KHz

VBW 100 KHz

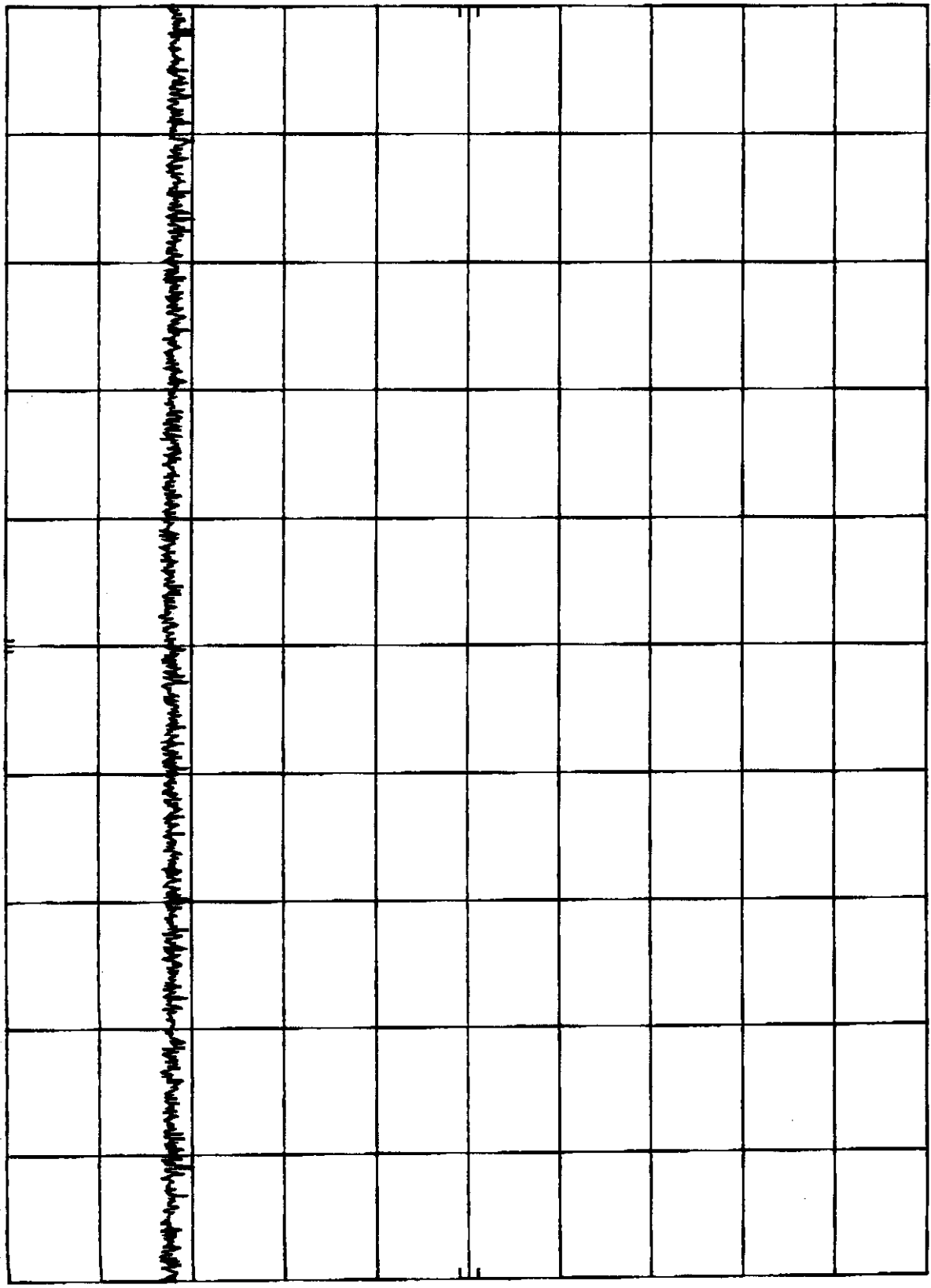
STOP 2.50 GHz

SWP 6.60 sec

Antenna Conducted Spurious Driver FCC ID: BBD4-1A8-L

HP 5 WATTS INPUT ANT. CONDUCTED SPURIOUS
REF -93.0 dBm ATTEN 10 dB

10 dB/
POS PK
OFFSET
-93.0
dB



START 2.50 GHz RES BW 30 KHz VBW 100 KHz STOP 5.50 GHz
SWP 9.00 sec