Oct. 27, 1998

FEDERAL COMMUNICATIONS COMMISSION
Equipment Authorization Division, Applications Processing Branch
7435 Oakland Mills Road
Columbia, MD 21046

Re: 5800 Next Generation Test Data Submitted to the FCC
FCC ID: LB45800NG

The test data measured by Ortel for the 5800 Next Generation is in accordance as outlined per the FCC requirements in Parts 22.917. All the test data taken was also in accordance to the guidelines set forth by the FCC via fax and verbal communication.

Sincerely,

Toan Tran

Making Light Work For You
ORTEL®
CORPORATION

May 06, 1998

FEDERAL COMMUNICATIONS COMMISSION
Equipment Authorization Division, Applications Processing Branch
7435 Oakland Mills Road
Columbia, MD 21046

Product: 5800 Next Generation
Re: Test Data Submitted to the FCC
FCC ID: LB45800NG

The test data measured by Ortel for the 5800 Next Generation Fiberoptic Transceiver Plug-in and Antenna unit is in accordance as outlined per the FCC requirements in Parts 2.985, 2.989, 2.991 and 24.238. Additionally, the data for intermodulation and input/output spreading were measured also in accordance to the guidelines set forth by the FCC via fax and verbal communication.

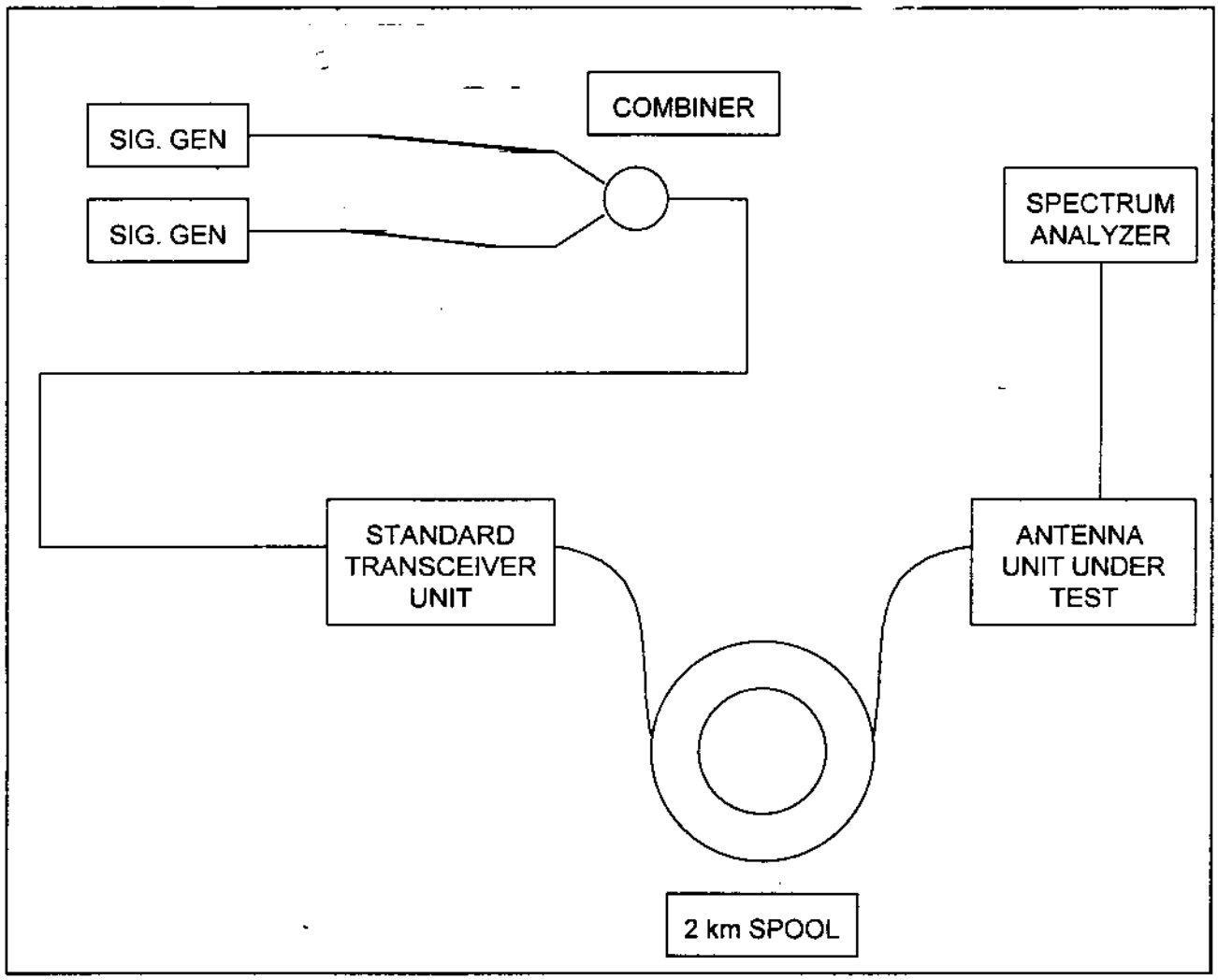
Sincerely,

Toan Tran
Quality Engineering Section Head

2015 West Chestnut Street, Alhambra, California 91803 (818) 281-3636 Fax: (818) 281-8231

5800 Next Gen.

Test Setup



5800 Next Generation FCC/IC

Test Equipment List

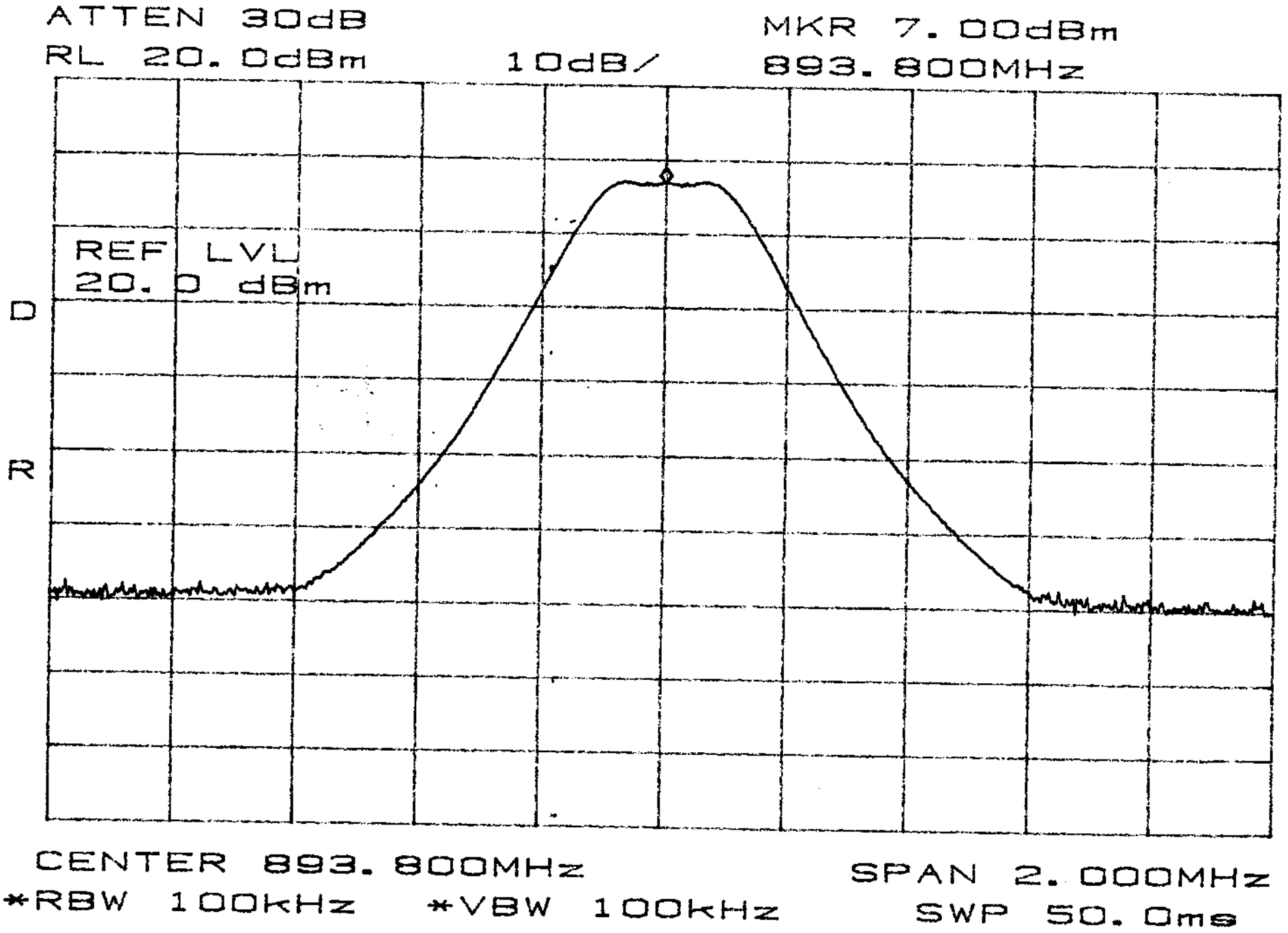
1.	HP 8648B	100KHz – 2000MHz Signal Generator
2.	HP8648C	100KHZ – 3200MHz Signal Generator
3.	HP8563E	Spectrum Analyzer
4.	MCLI PS2-3	Combiner
5.	HP7470A	Plotter
6.	TPS-4000	Power Supply

DL HIGH FREQ.
(893.8 MHz)

OCCUPIED BW

MAX HOLD

3/25/98

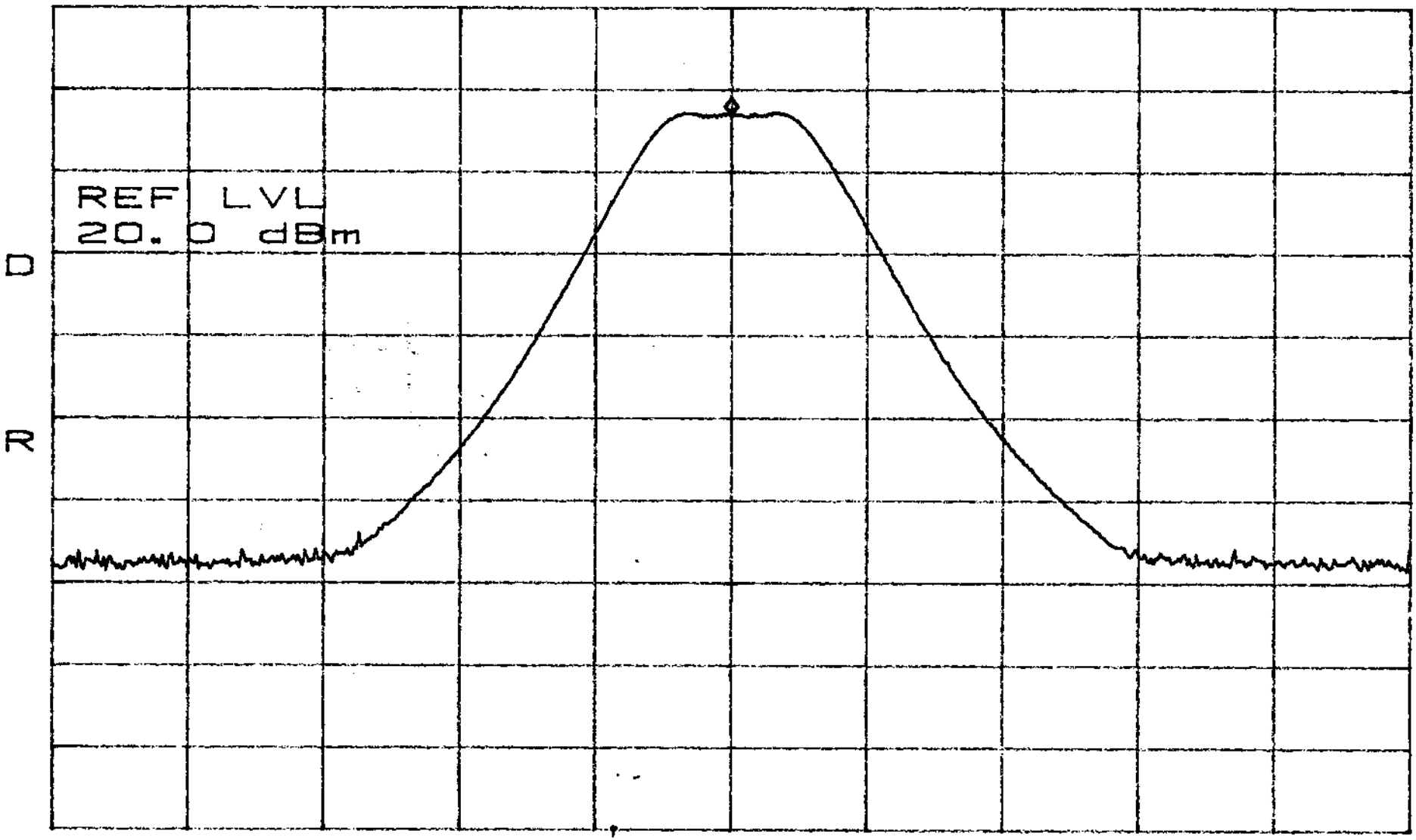


DL ~~HIGH~~ MID FREQ. (881.5MHz)

OCCUPIED BW

MAX HOLD

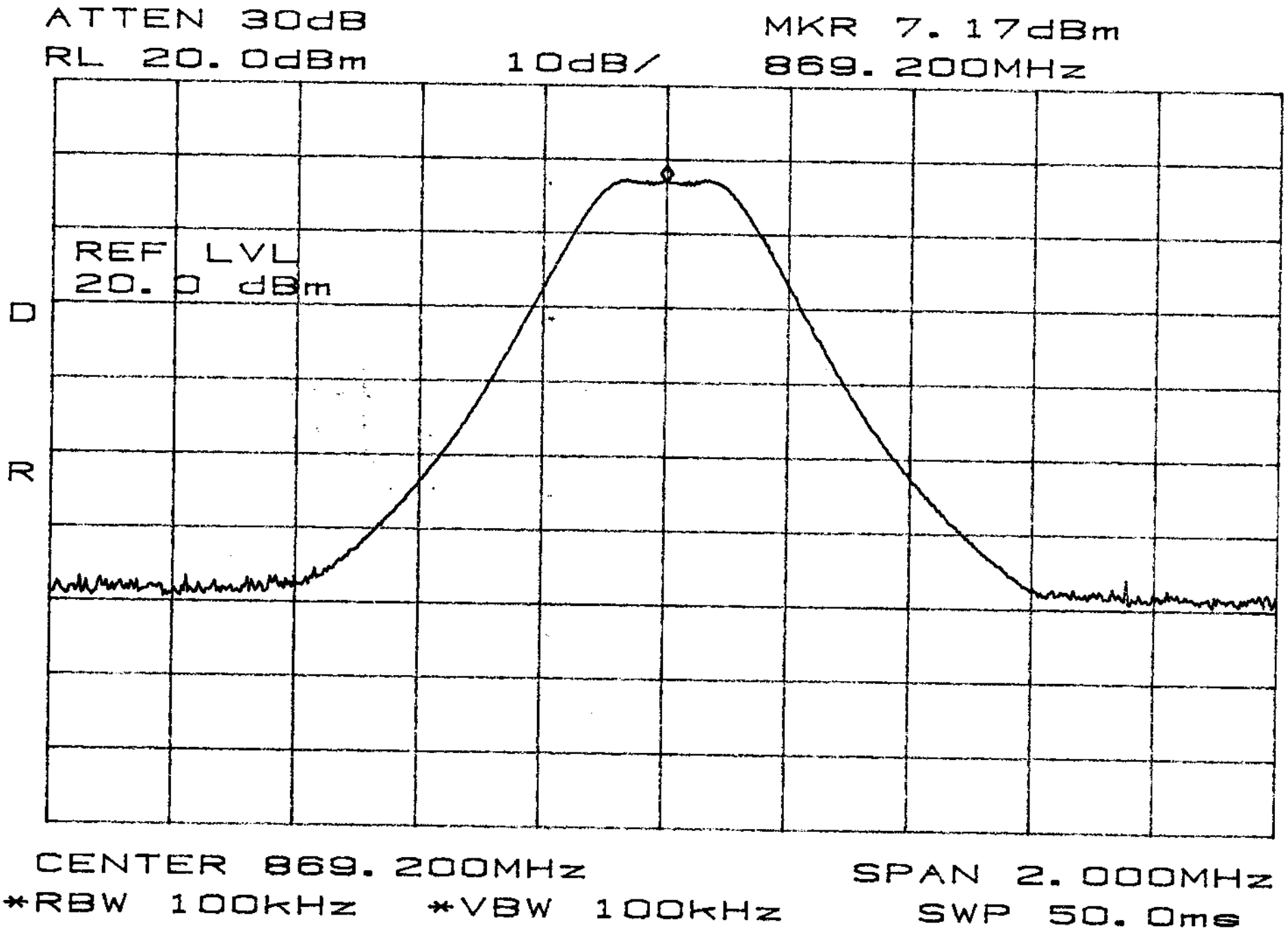
3/25/98



DL LOW FREQ.
(869.2 MHz)

OCCUPIED BW
MAX HOLD

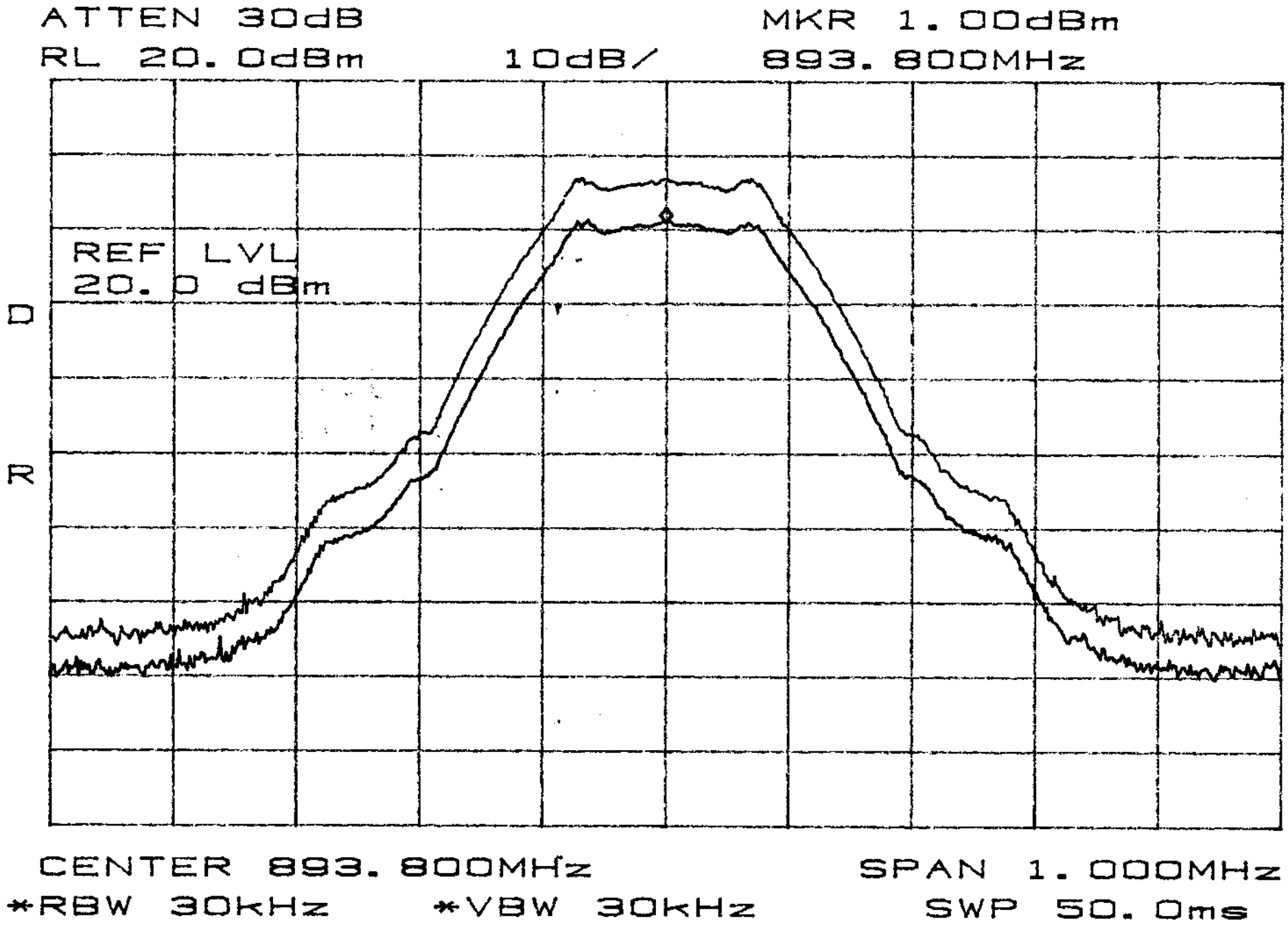
3/25/98



DL HIGH FREQ.
(893.8 MHz)

IN/OUT
MAX HOLD

3/25/98

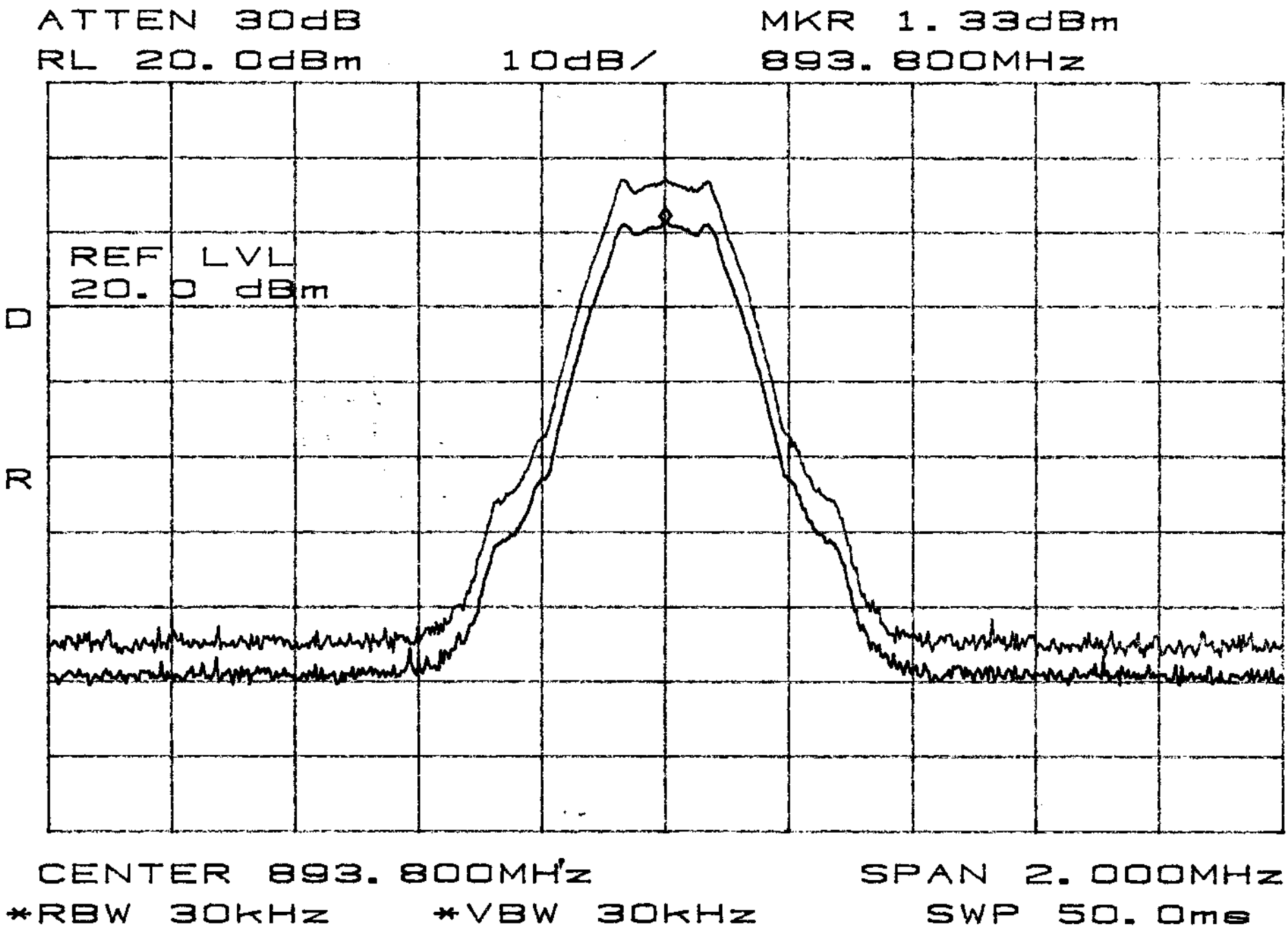


DL HIGH FREQ.
(893.8 MHz)

IN/OUT

MAX HOLD

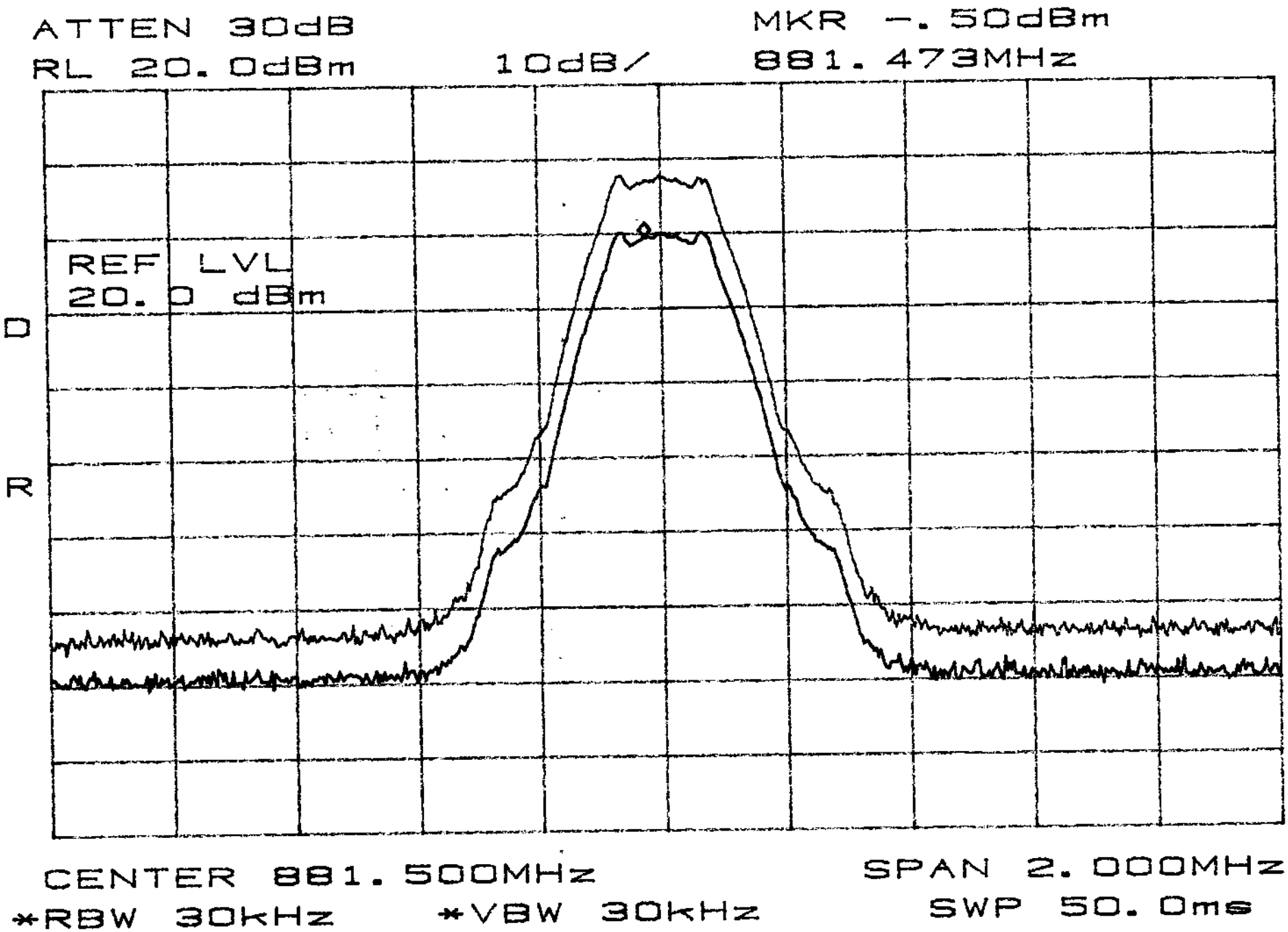
3/25/98



DL MID. FREQ.
(881.5 MHz)

IN/OUT
MAX HOLD

3/25/98

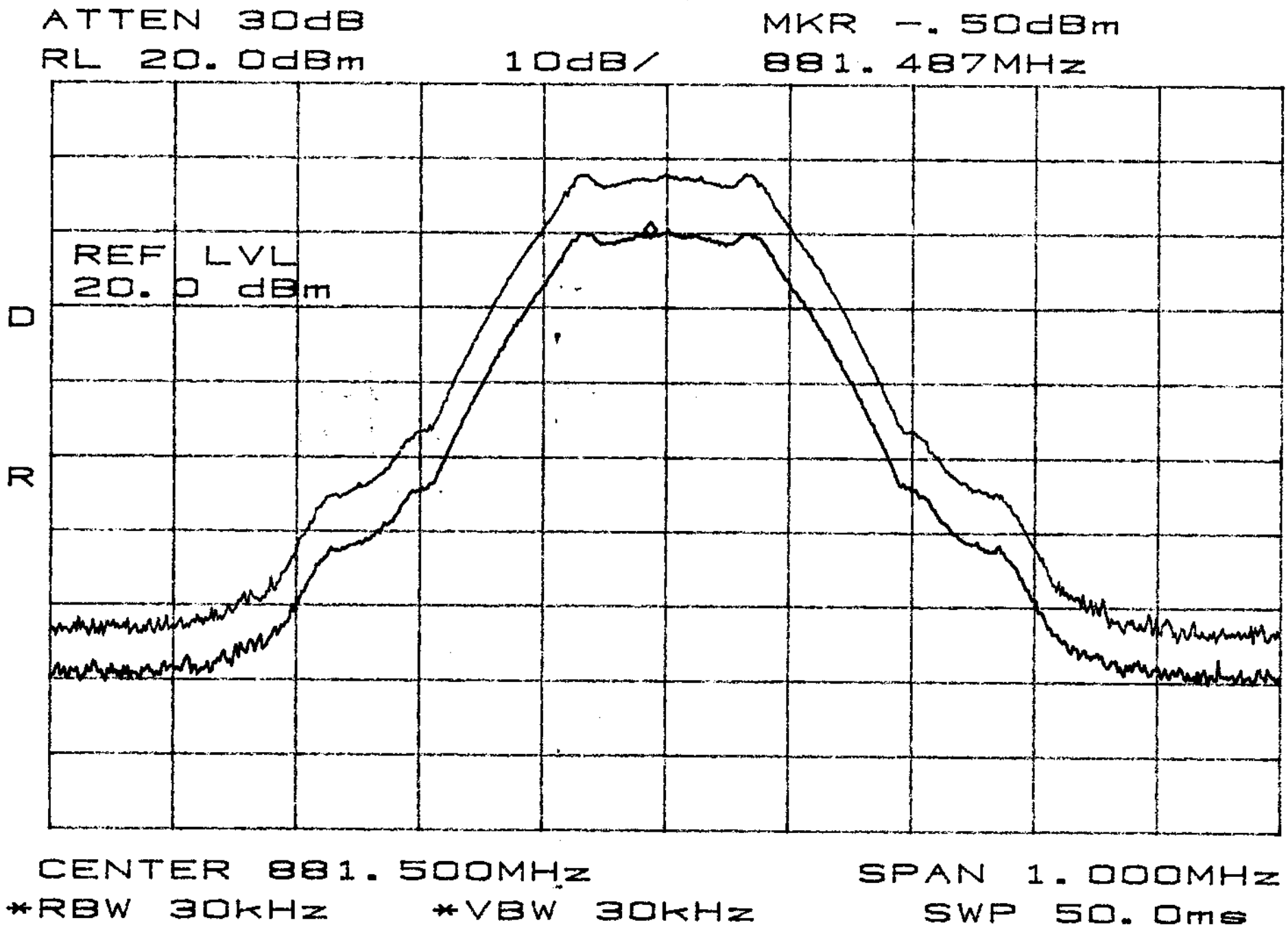


MID FREQ.
(881.5 MHz)

IN/OUT

MAX HOLD

3/25/98

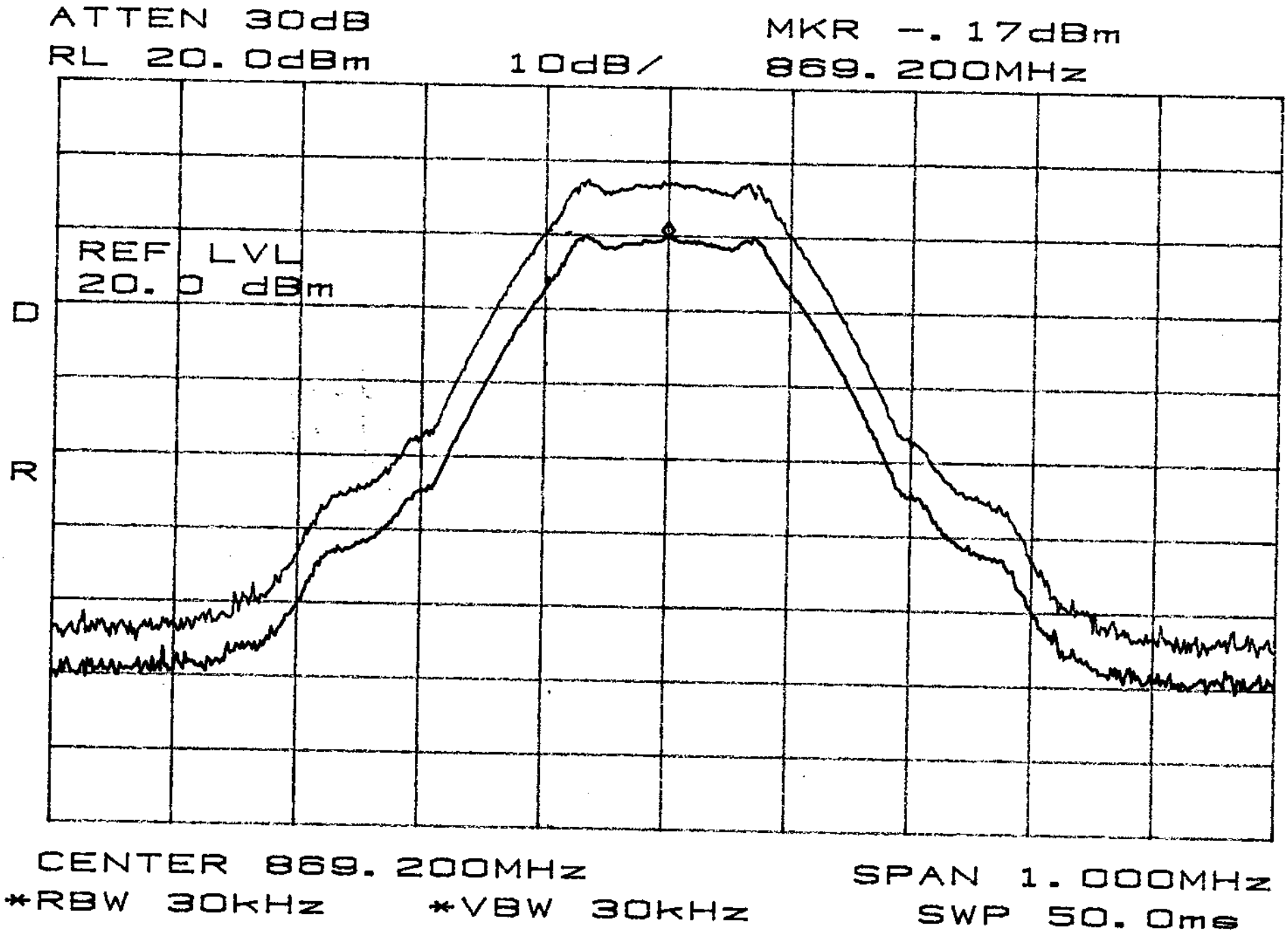


7

DL LOW FREQ.
(869.2 MHz)

IN/OUT
MAX HOLD

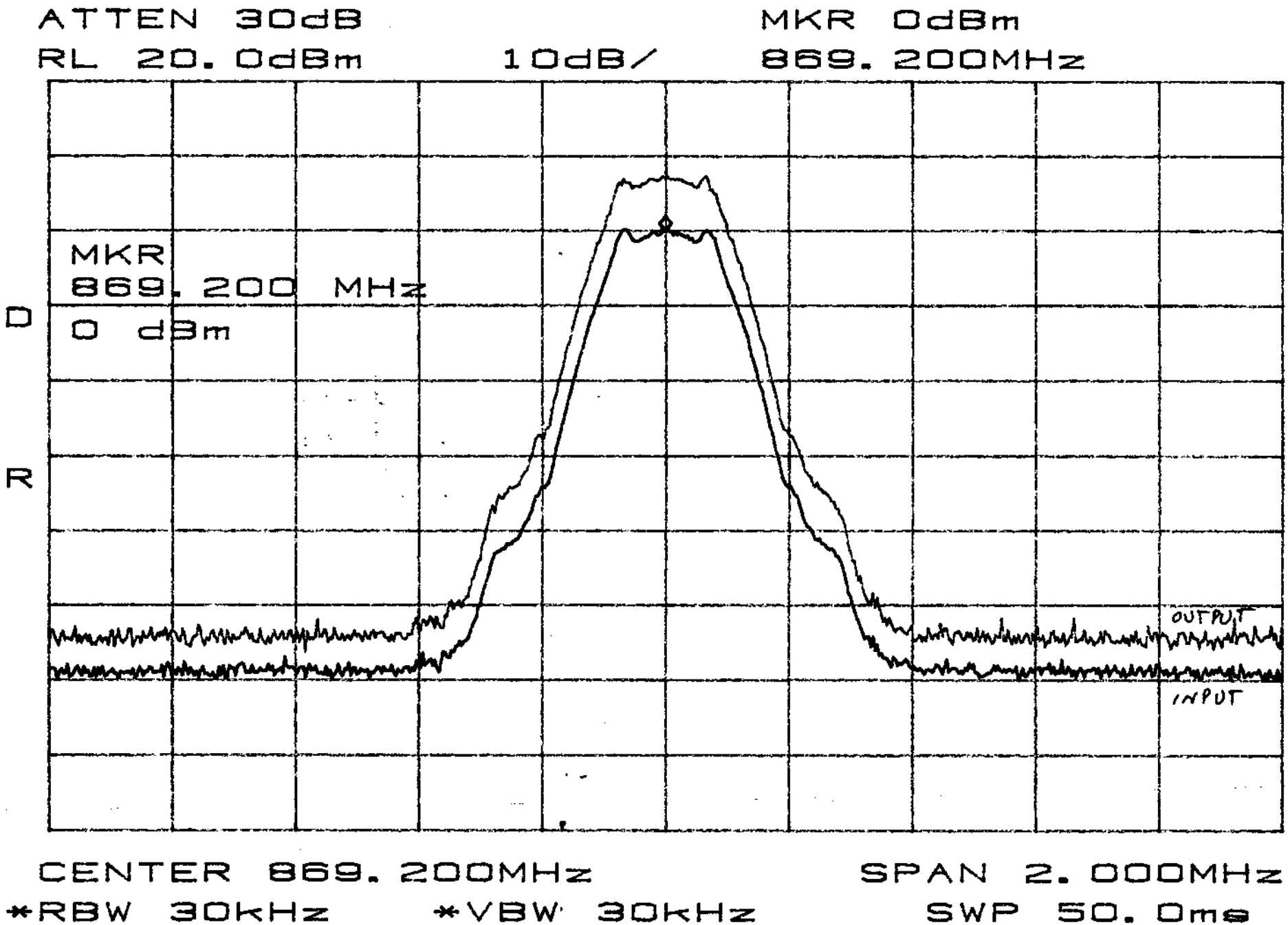
3/25/98



DL LOW FREQ.
(869.2 MHz)

IN/OUT
MAX HOLD

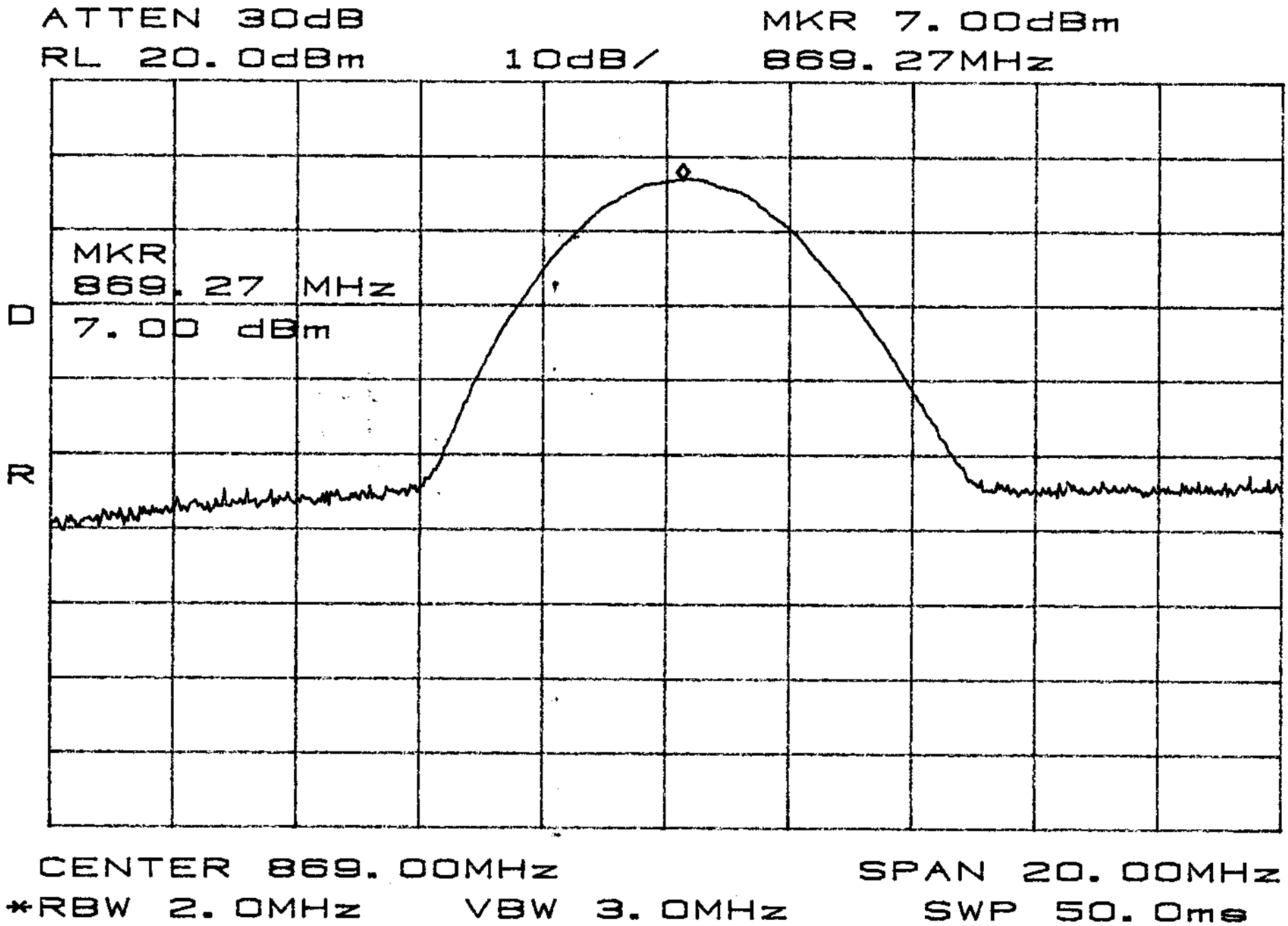
3/25/98



DL LOW FREQ.
(869.2 MHz)

RF OUT PUT
MAX HOLD

3/25/98

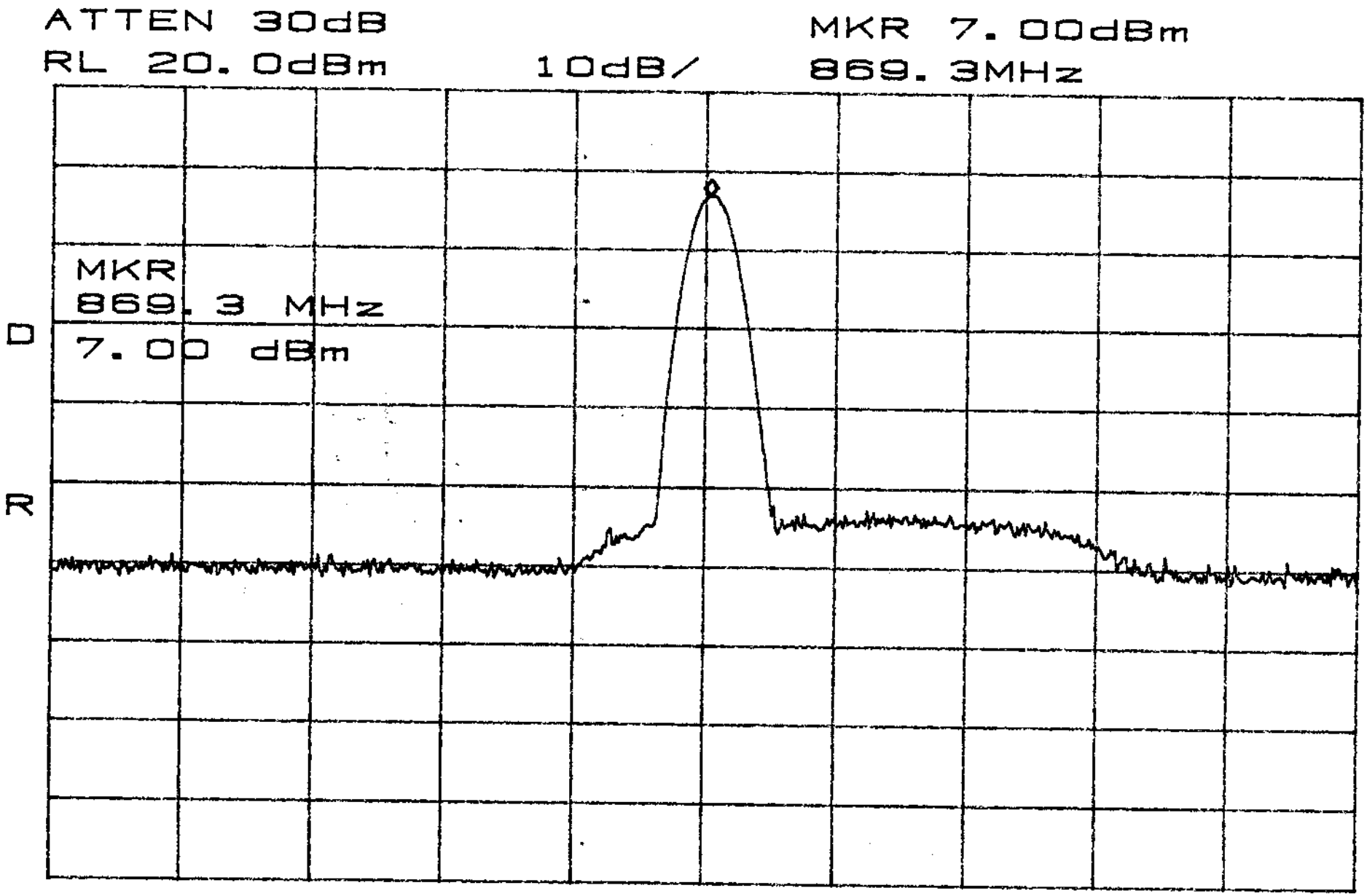


10

DL LOW FREQ
(869.2 MHz)

RF OUTPUT
MAX HOLD

3/25/98

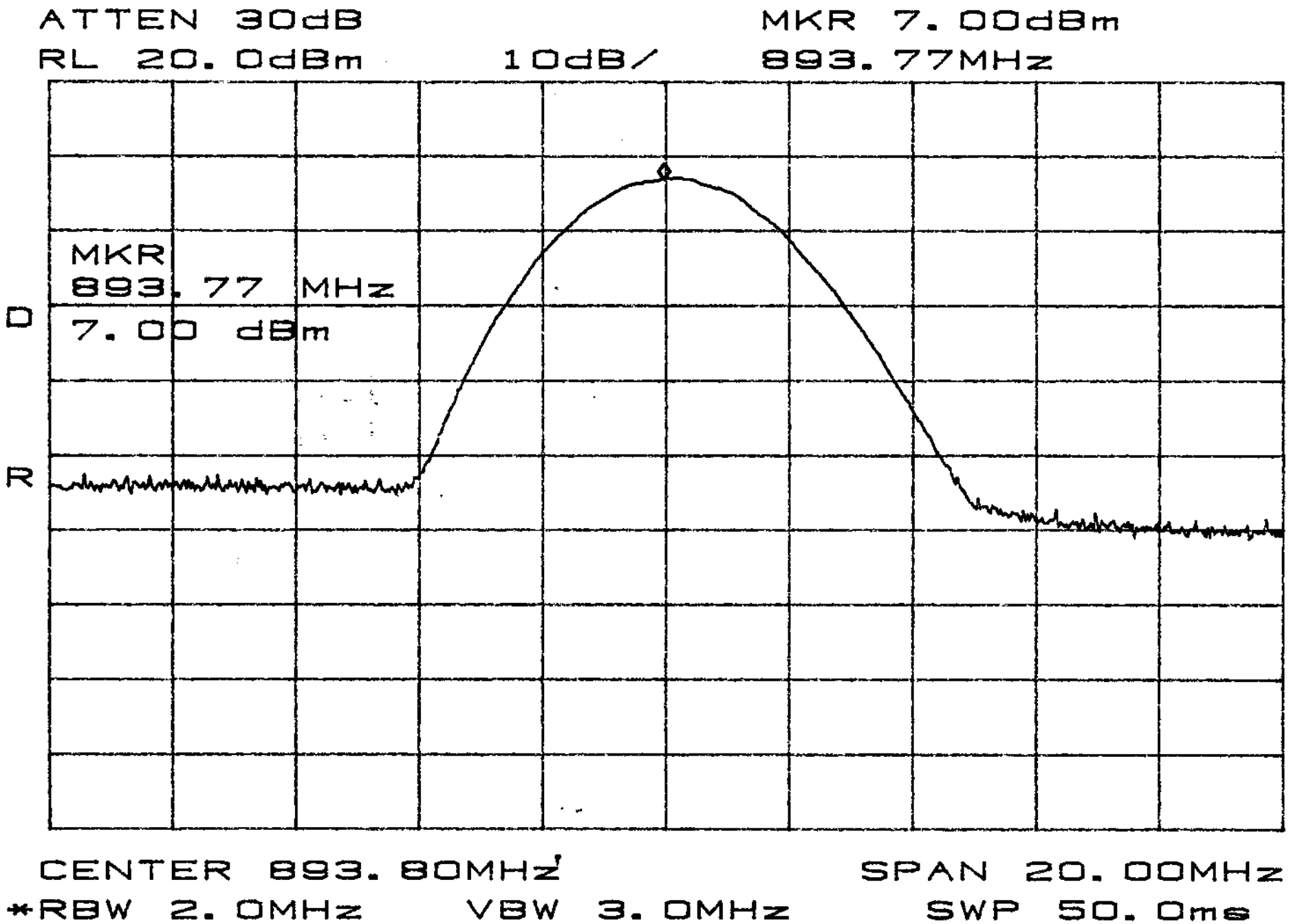


11

DL HIGH FREQ.
(893.8 MHz)

RF OUTPUT
MAX HOLD

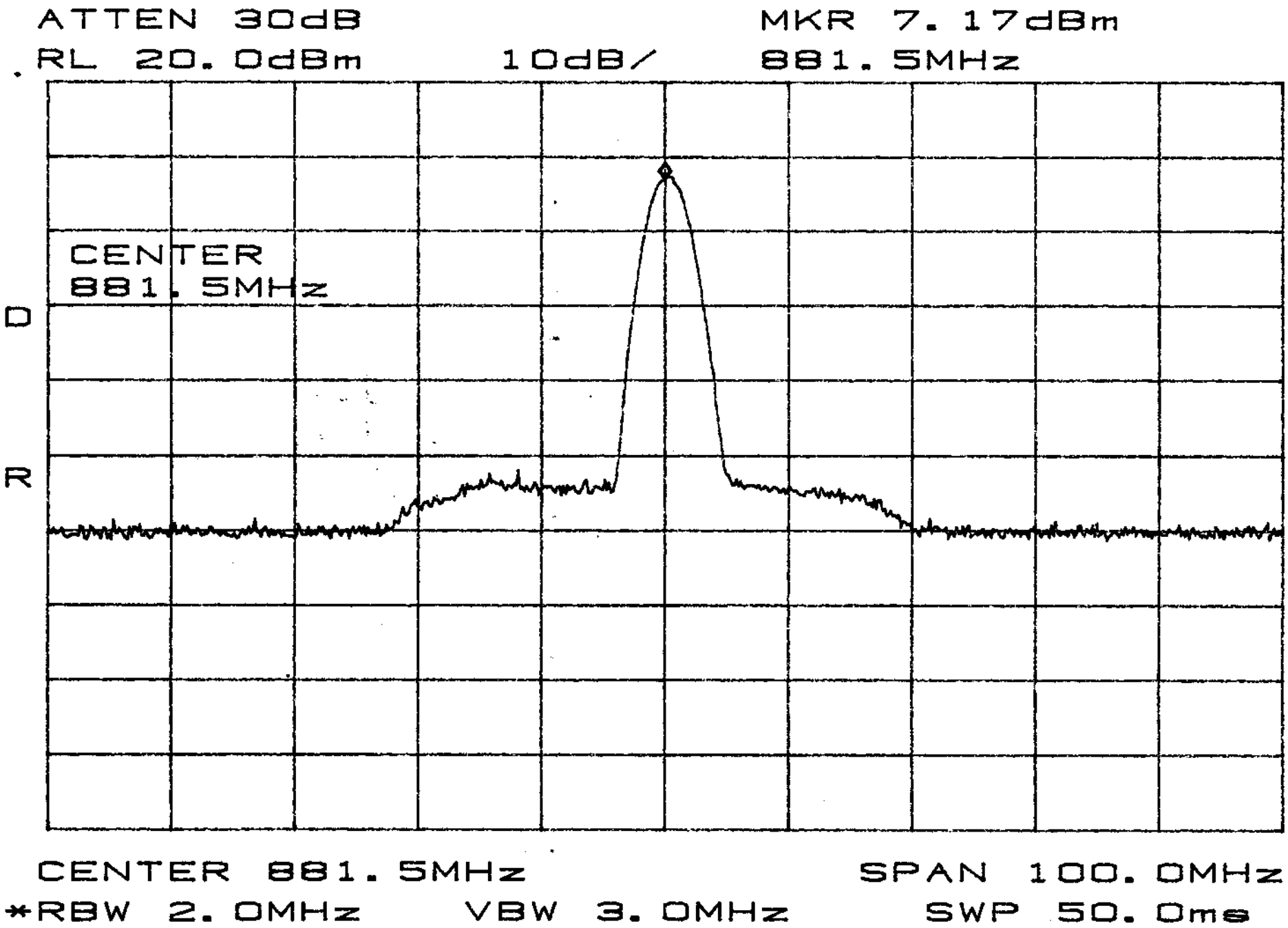
3/25/98



DL MID FREQ.
(881.5MHz)

RF OUTPUT
MAX HOLD

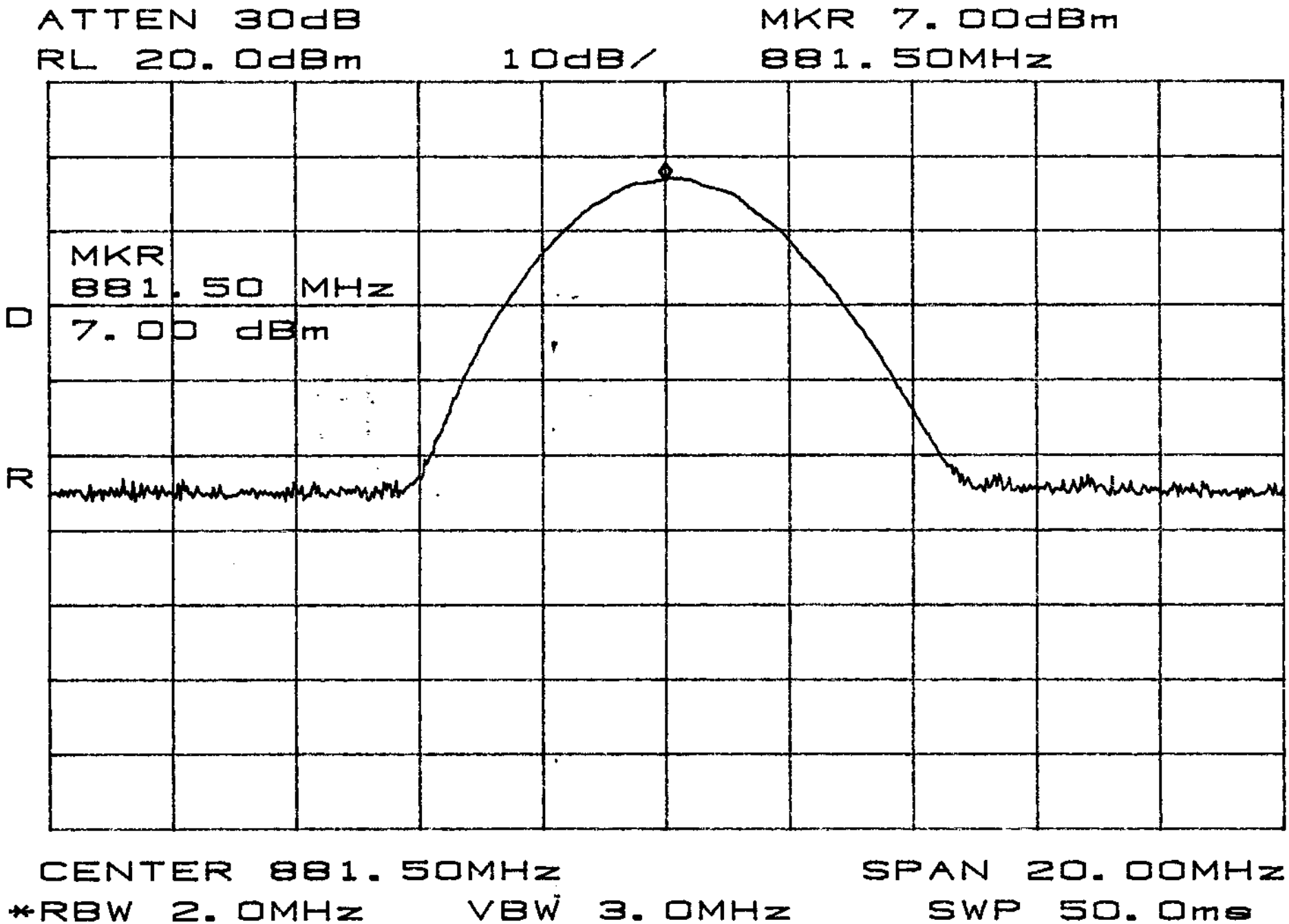
3/25/98



DL MID FREQ.
(881.5 MHz)

RF OUTPUT
MAX HOLD

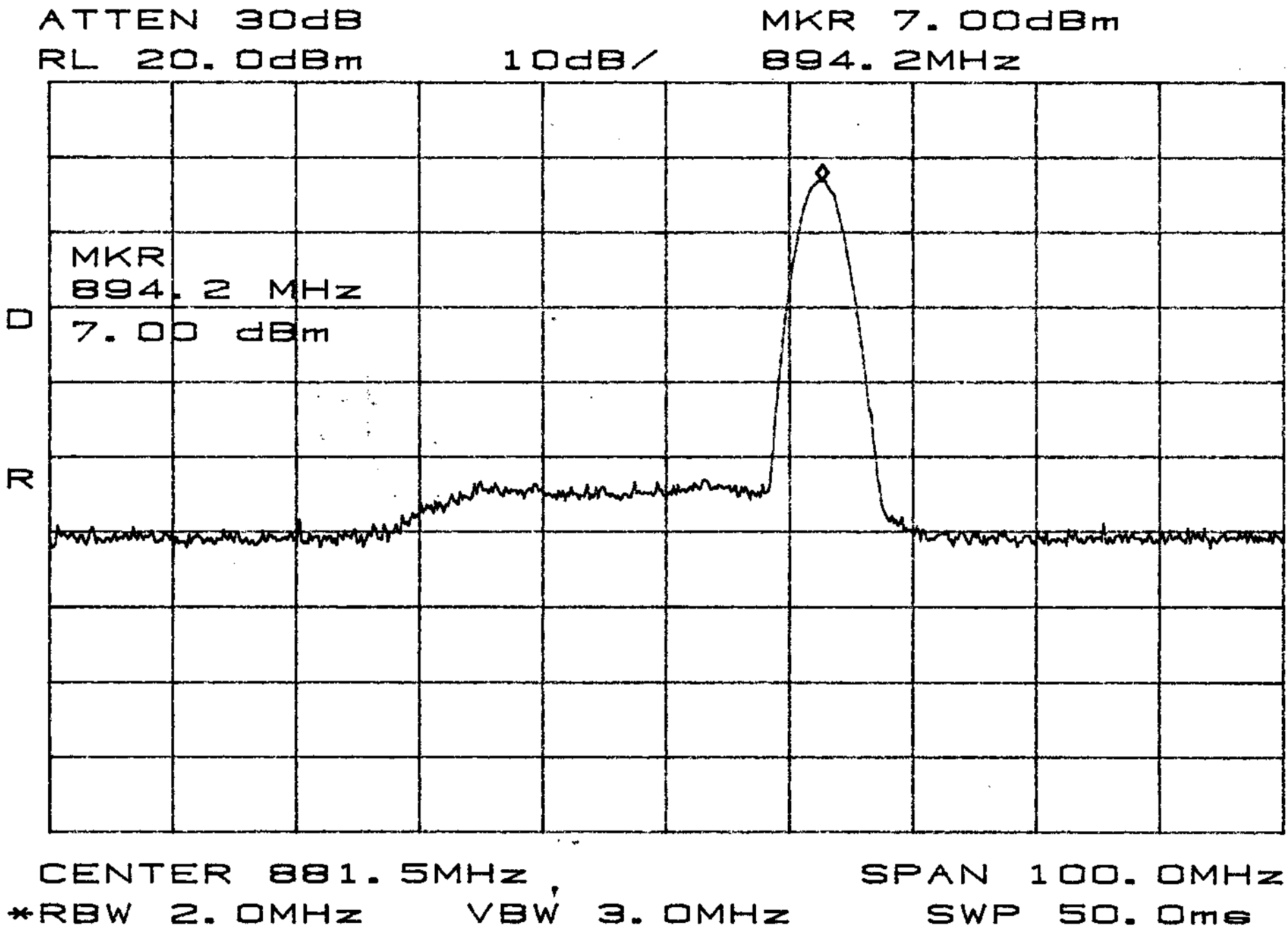
3/25/98



DL ~~Low~~ High Freq. (869.2 MHz)

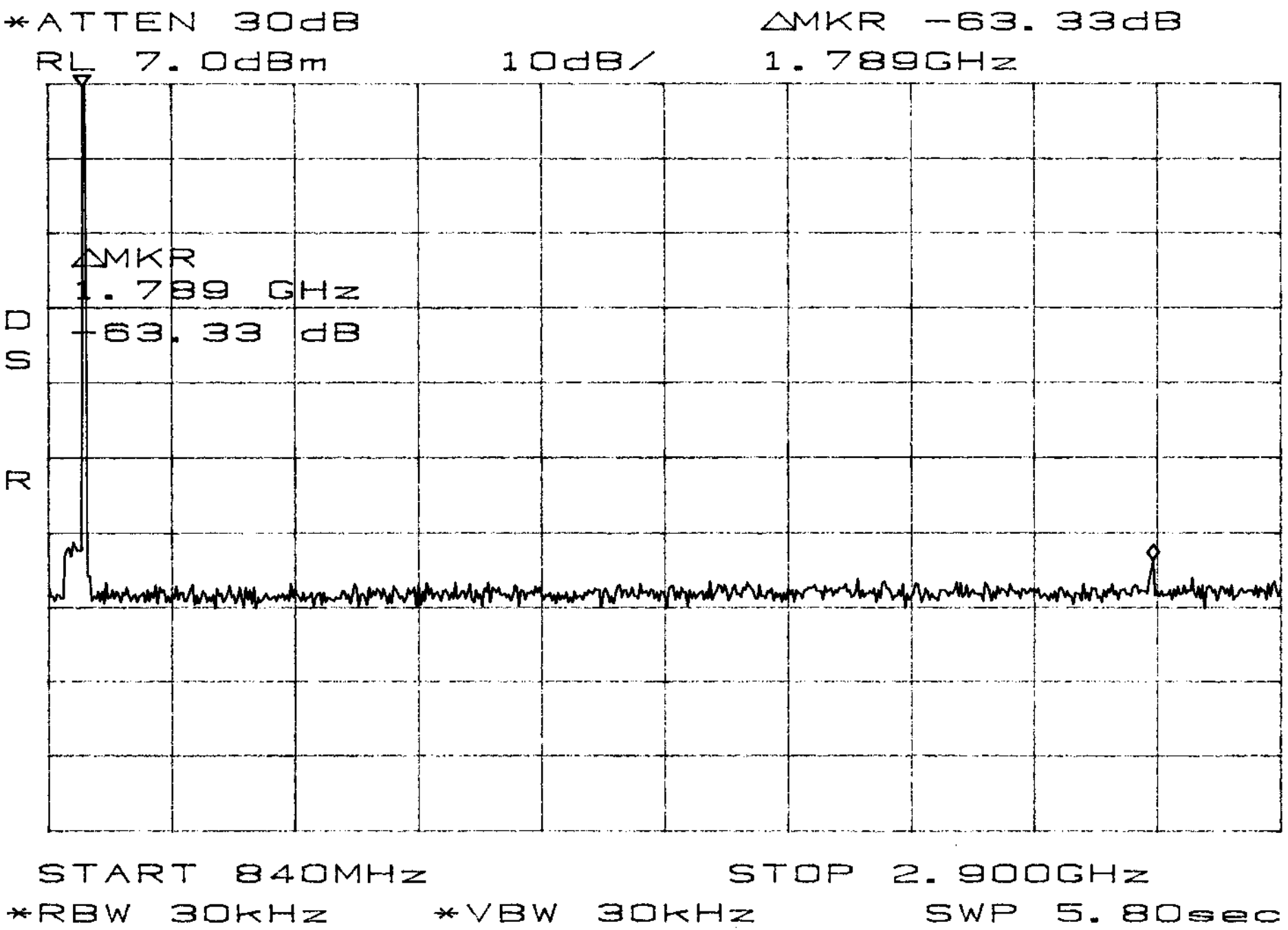
RF OUTPUT
MAX HOLD

3/25/98

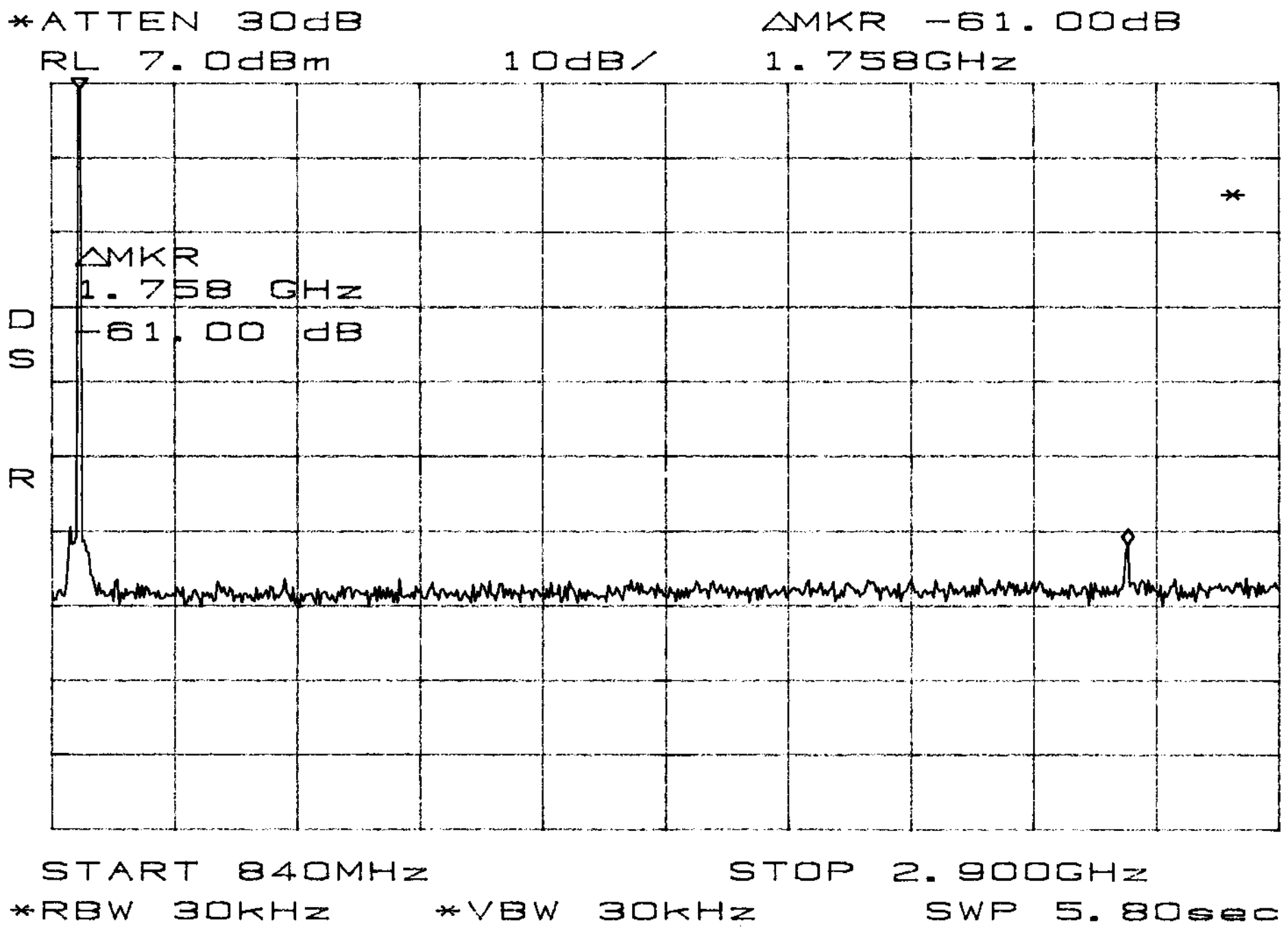


22.917 DATE 11/13/98

HIGH. FREQ.



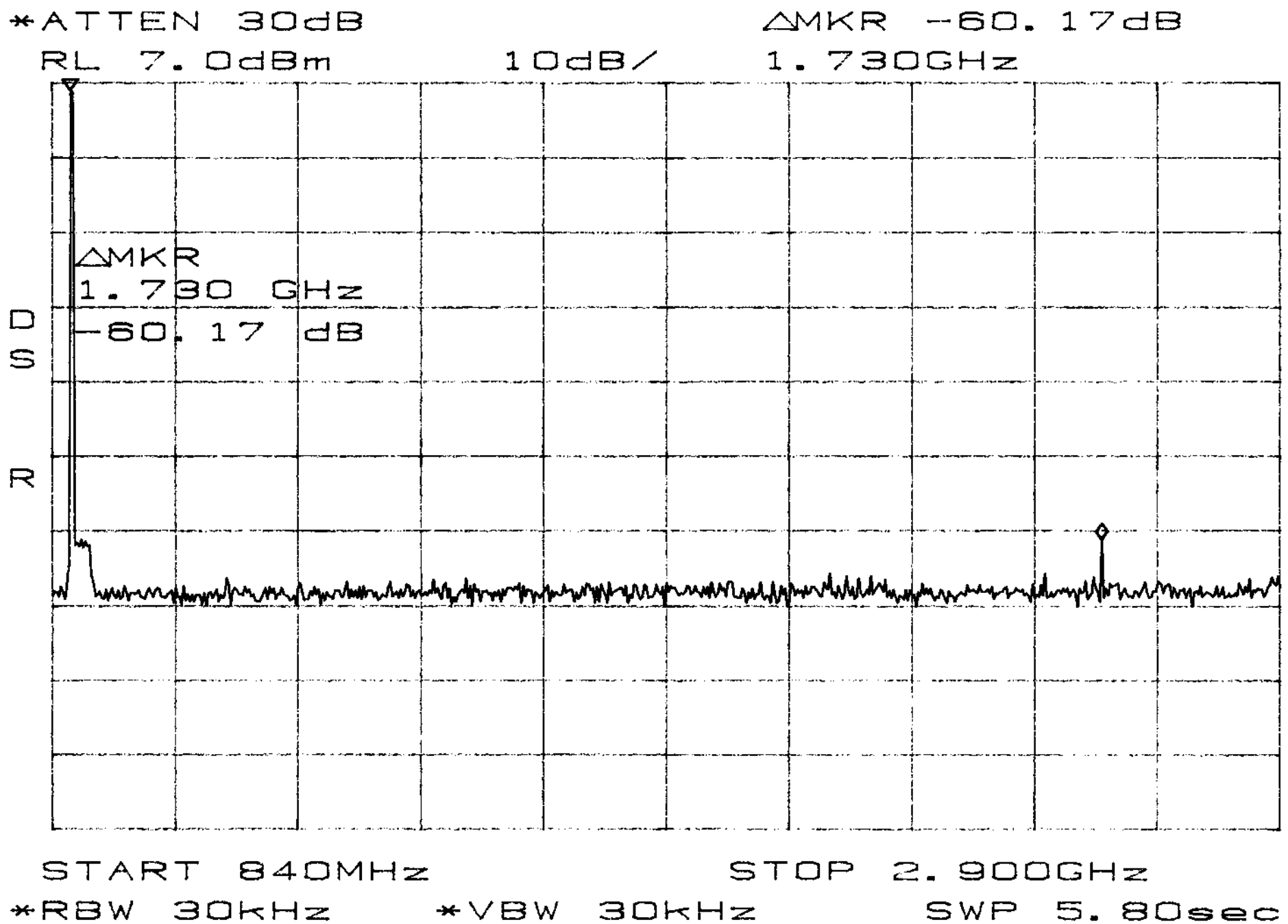
22.917 DATE 11/13/98 MID. FREQ.



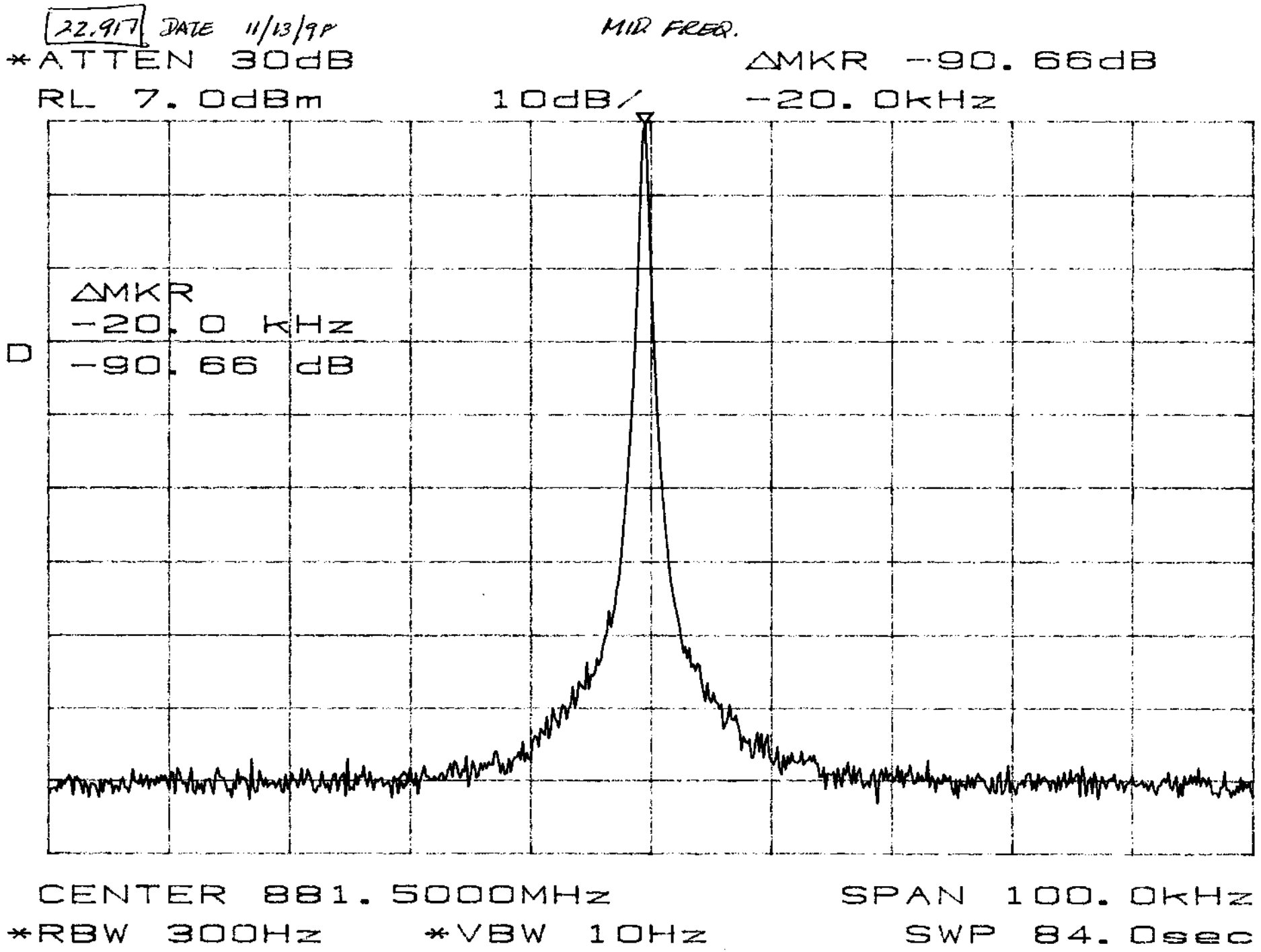
17

22.917 DATE : 11/13/98

LOW FREQ.



22.917 DATE 11/13/96 MID FREQ.



22.917 DATE 11/13/98

HIGH FREQ

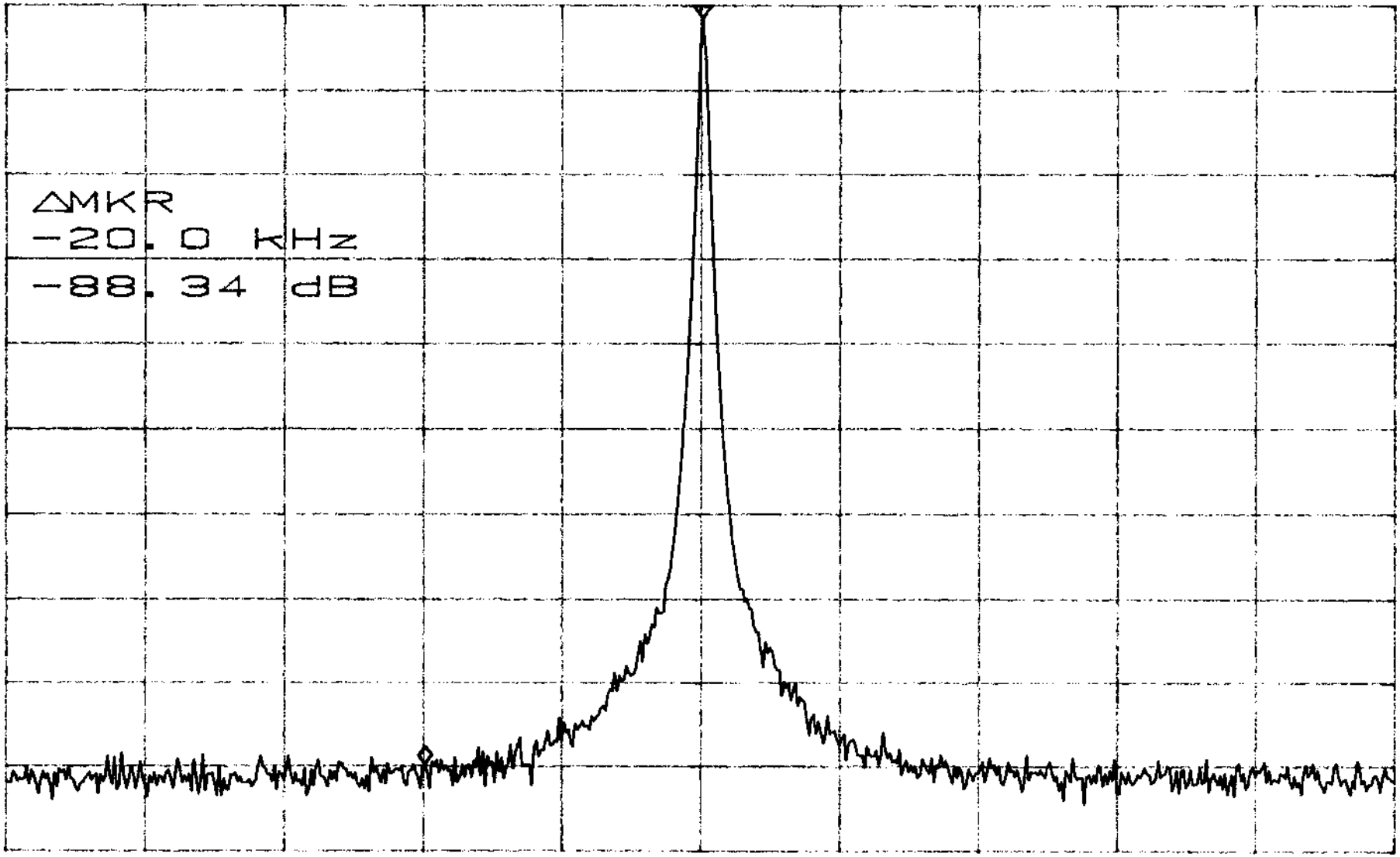
*ATTEN 30dB

ΔMKR −88.34dB

RL 7.0dBm

10dB/

−20.0kHz



CENTER 893.9993MHz

SPAN 100.0kHz

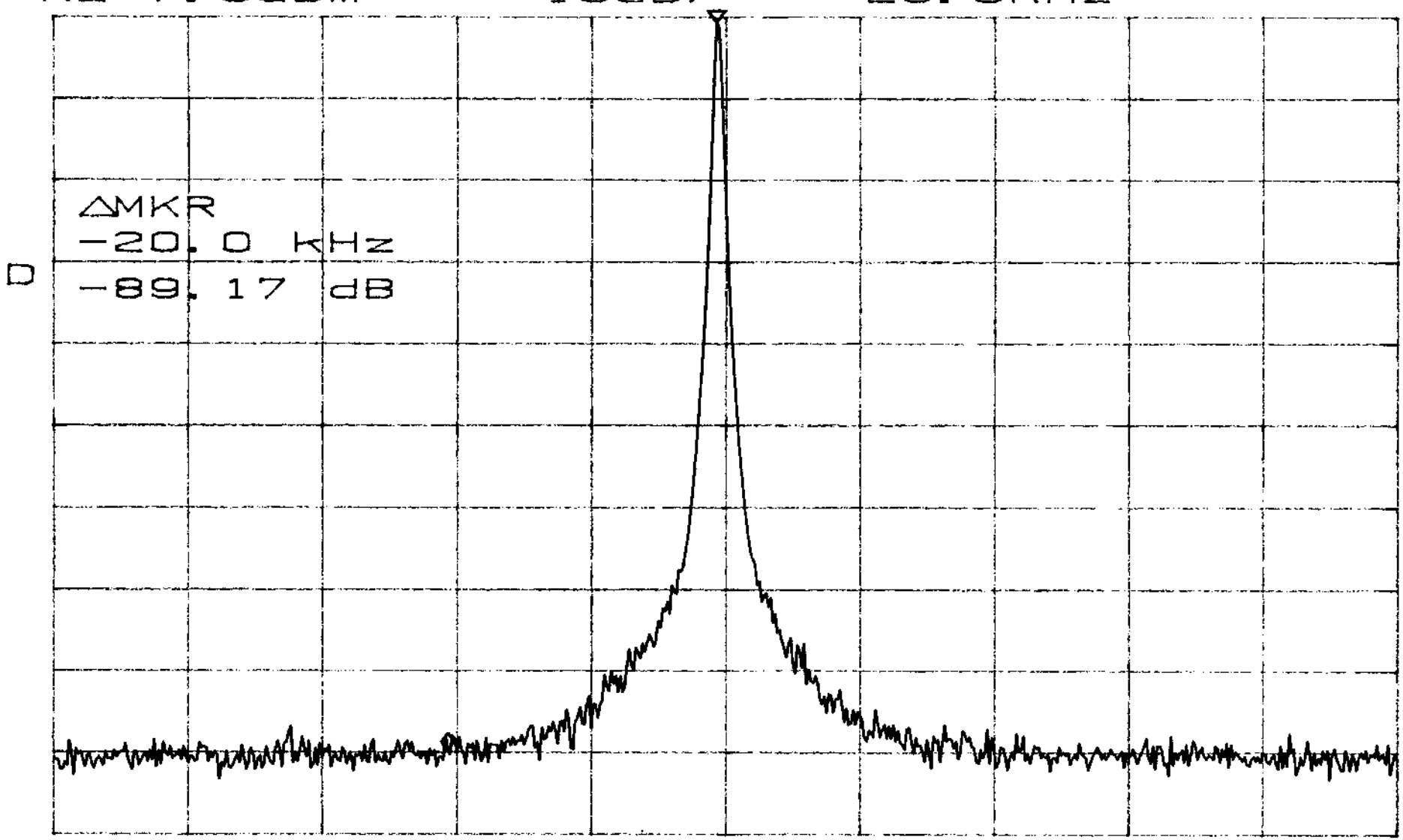
*RBW 300Hz

*VBW 10Hz

SWP 84.0sec

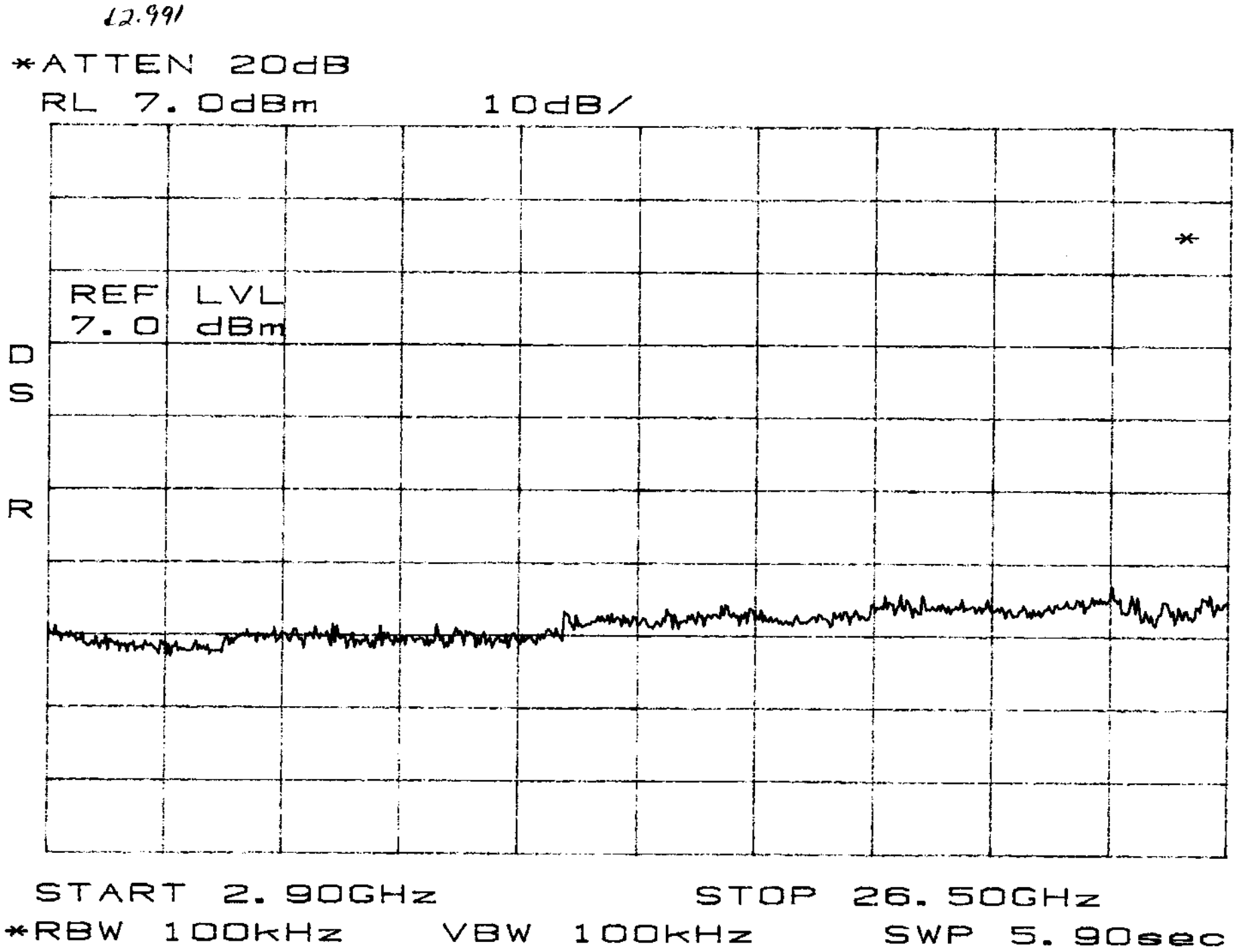
22917 DATE 11/13/98

LOW FREQ.



22.917 Date 11/6/98 LOW FREQ.

22.991



Nov-09-98 04:38P

P.06

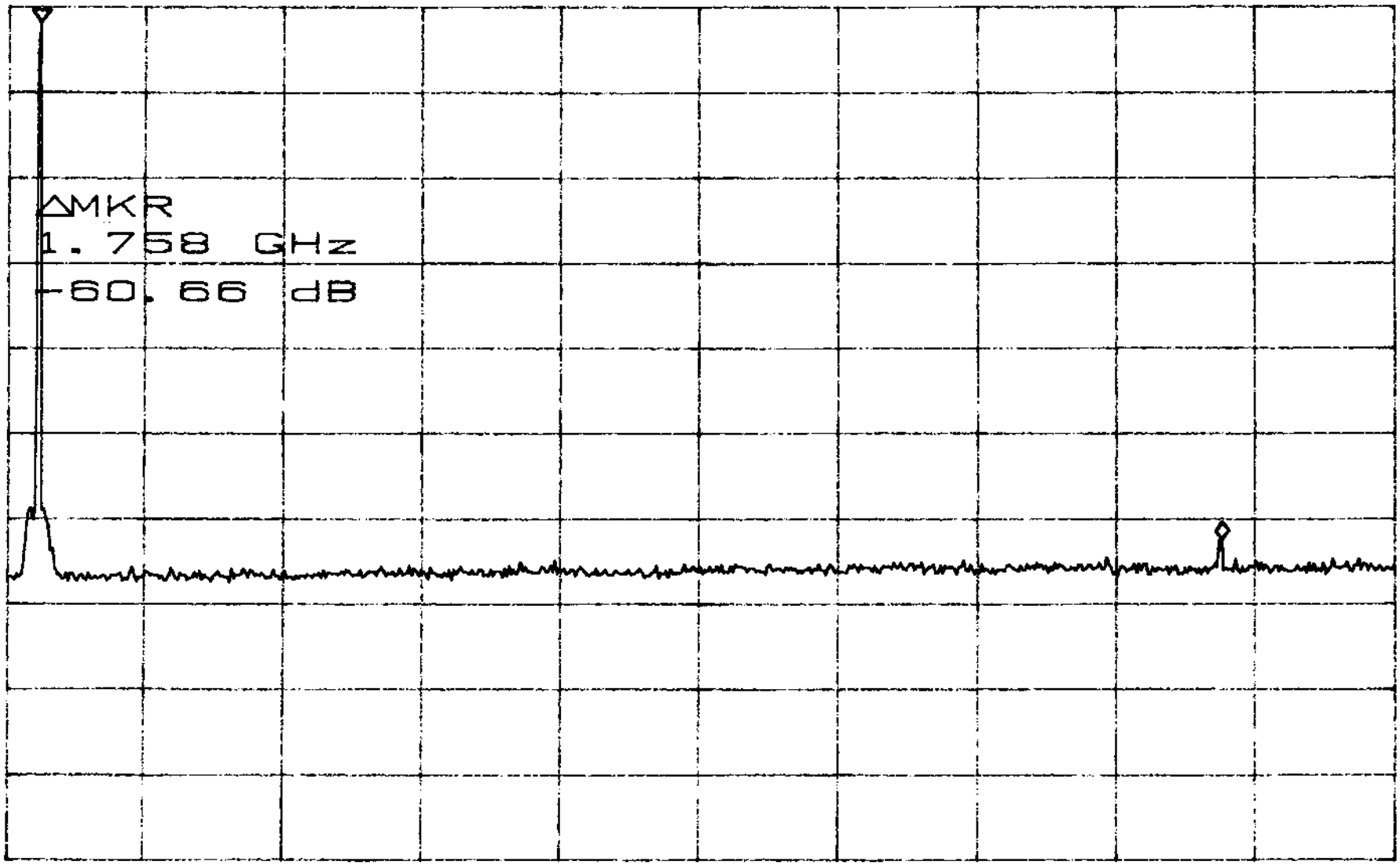
22

22.917 Date 11/6/98 MID. FREQ.

use RBW of 30kHz

*ATTEN 30dB ΔMKR −60.66dB

RL 7.0dBm 10dB/ 1.758GHz



START 840MHz STOP 2.900GHz

*RBW 300kHz *VBW 10kHz SWP 1.80sec

Nov-09-98 04:39P

P.07

23

22917 Date 11/6/98 MID. FREQ.

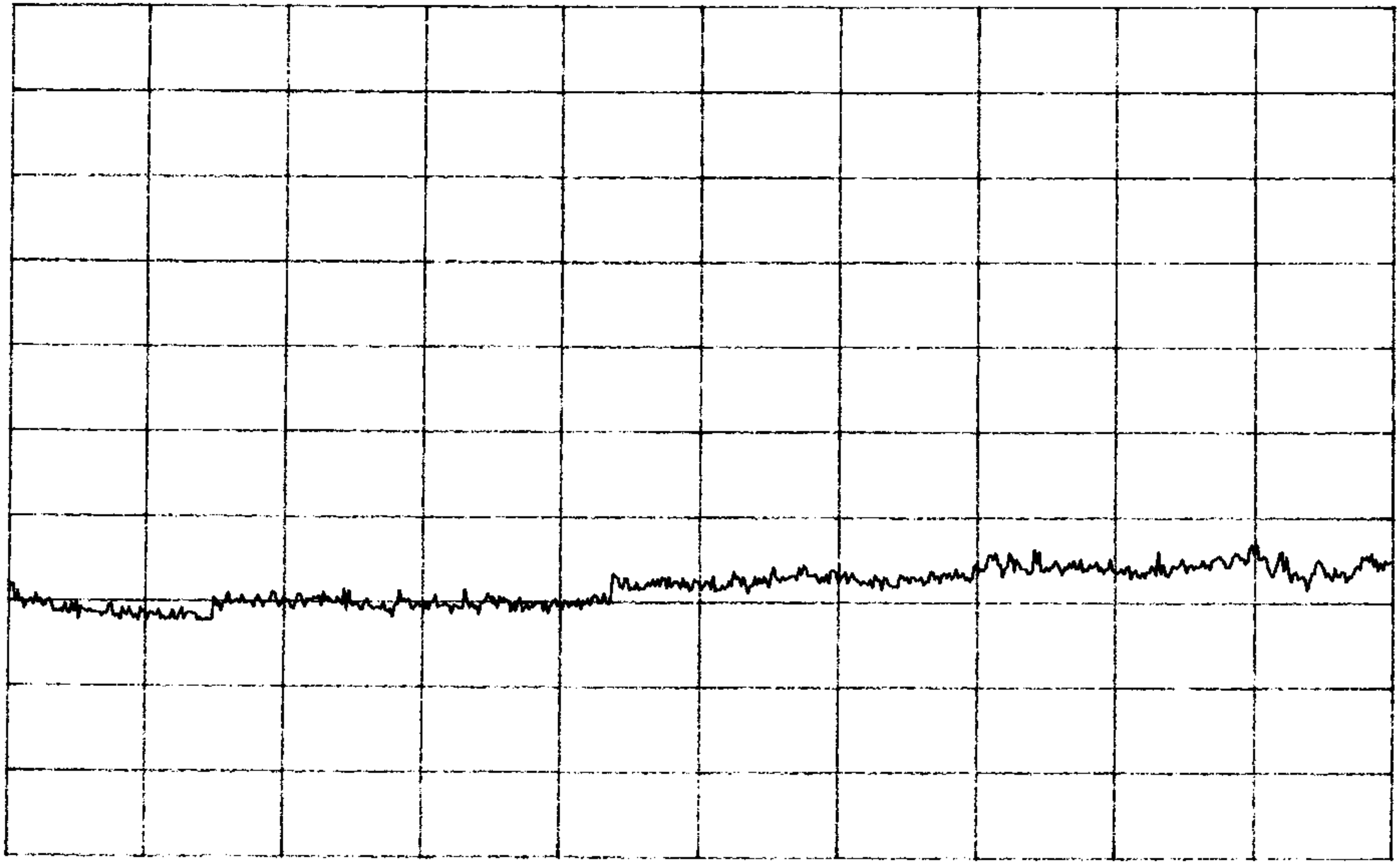
62991

*ATTEN 20dB

RL 7.0dBm 10dB/

D
S

R



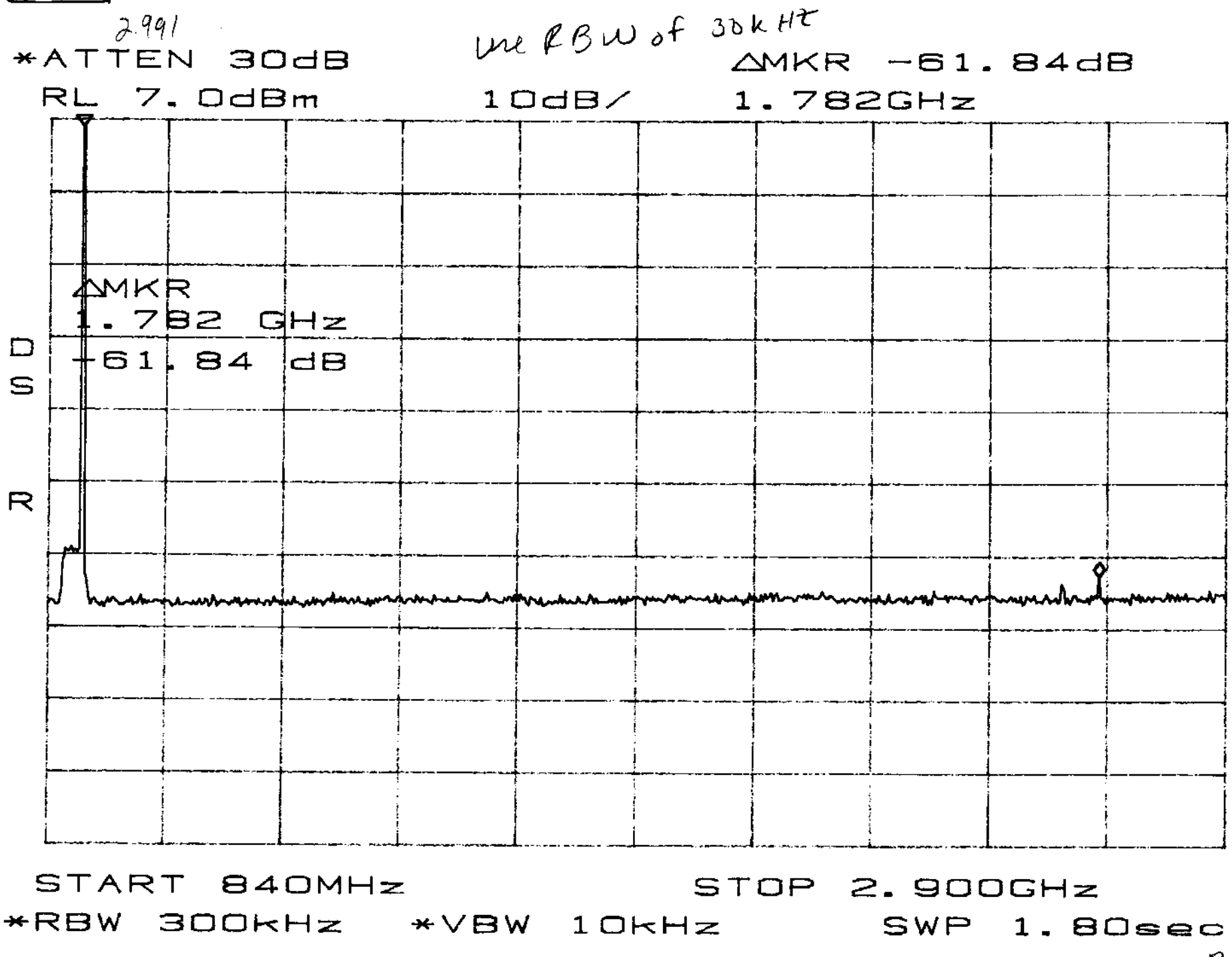
START 2.90GHz STOP 26.50GHz

*RBW 100kHz VBW 100kHz SWP 5.90sec

22917 Date 11/6/98 HIGH FREQ.

2.991

Use RBW of 30kHz



Nov-09-98 04:39p P.09

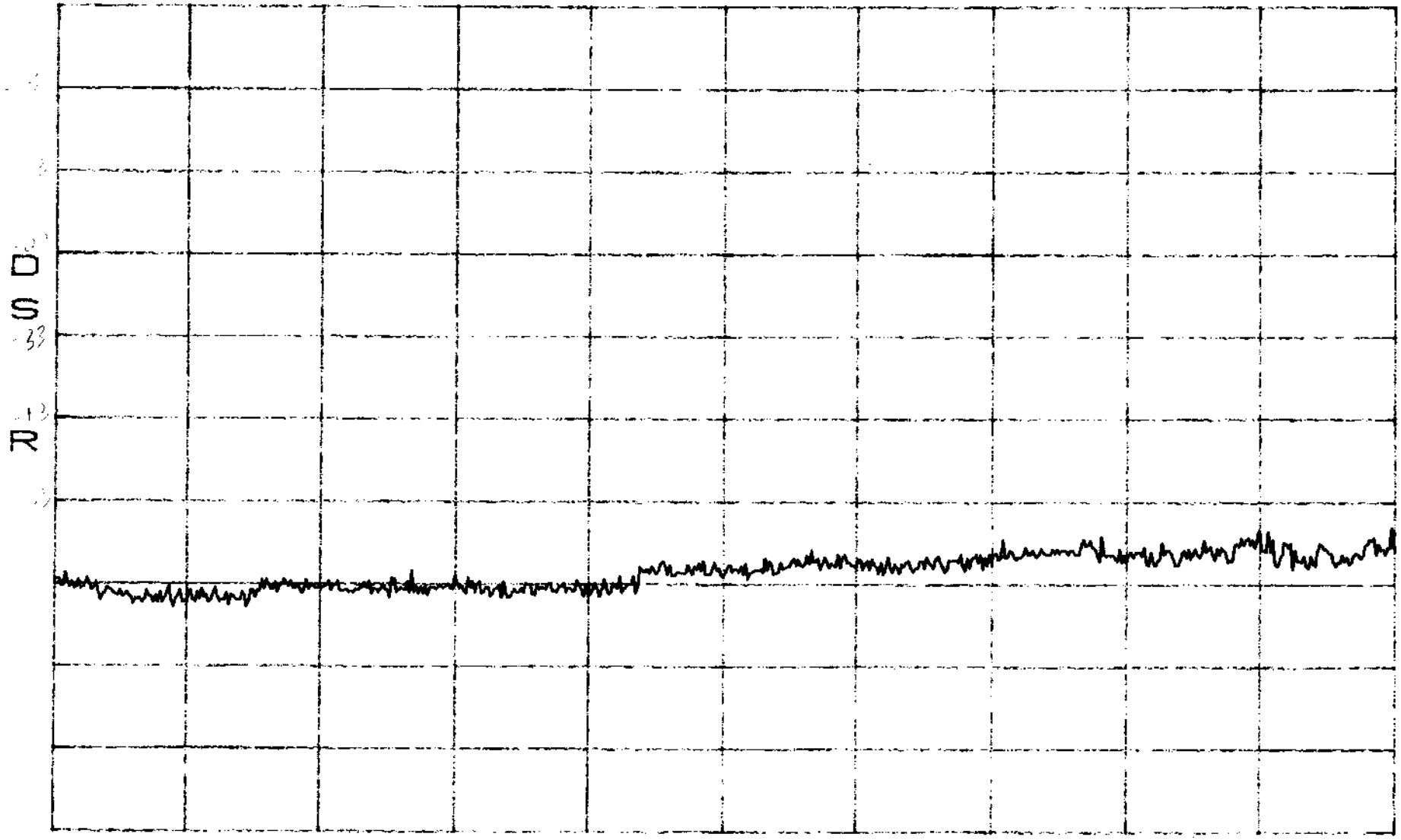
25

22.917 Date 11/6/98 HIGH FREQ.

2.991

*ATTEN 20dB

RL 7.0dBm 10dB/



START 2.90GHz STOP 26.50GHz

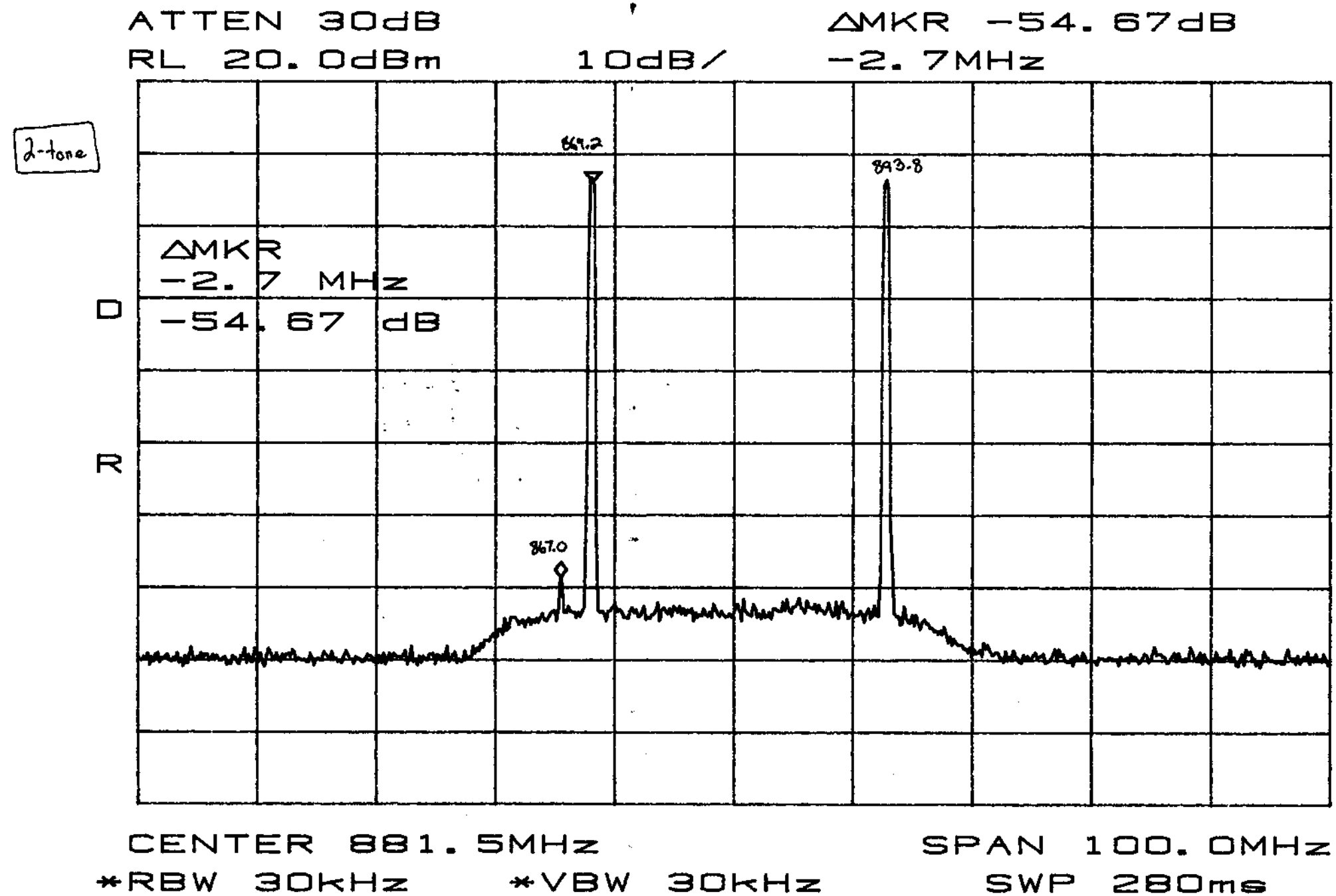
*RBW 100kHz VBW 100kHz SWP 5.90sec

26

DL Input Freq: 869.2 MHz
893.8 MHz
(GSM Source)

Output Intermods
MAX HOLD

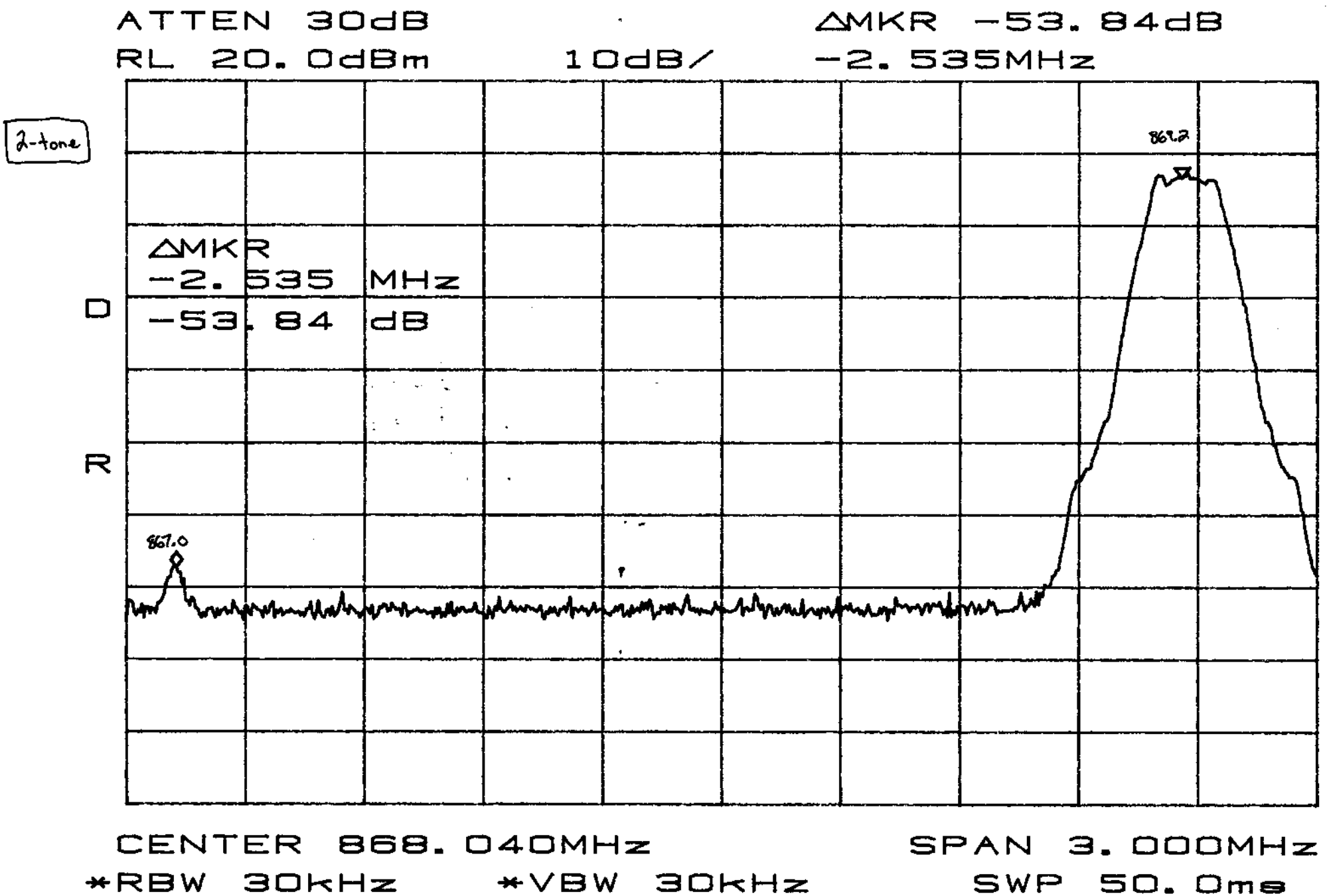
4/6/98



DL Input Freq: 869.2 MHz
893.8 MHz
(GSM Source)

Output Intermods
MAX HOLD

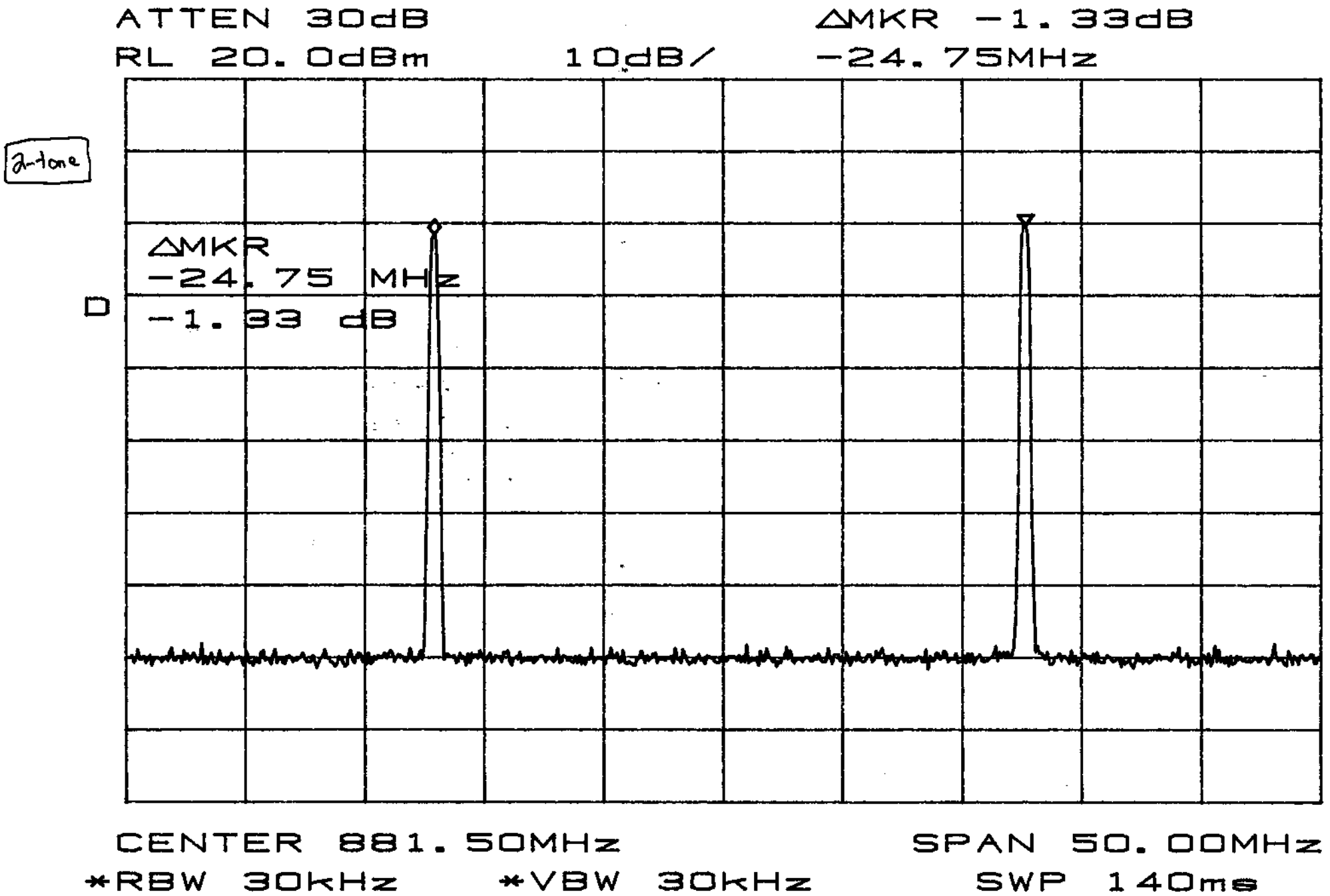
4/6/98



DL Input Freq: 869.2 MHz
893.8 MHz
(GSM Source)

Input Signals
MAX HOLD

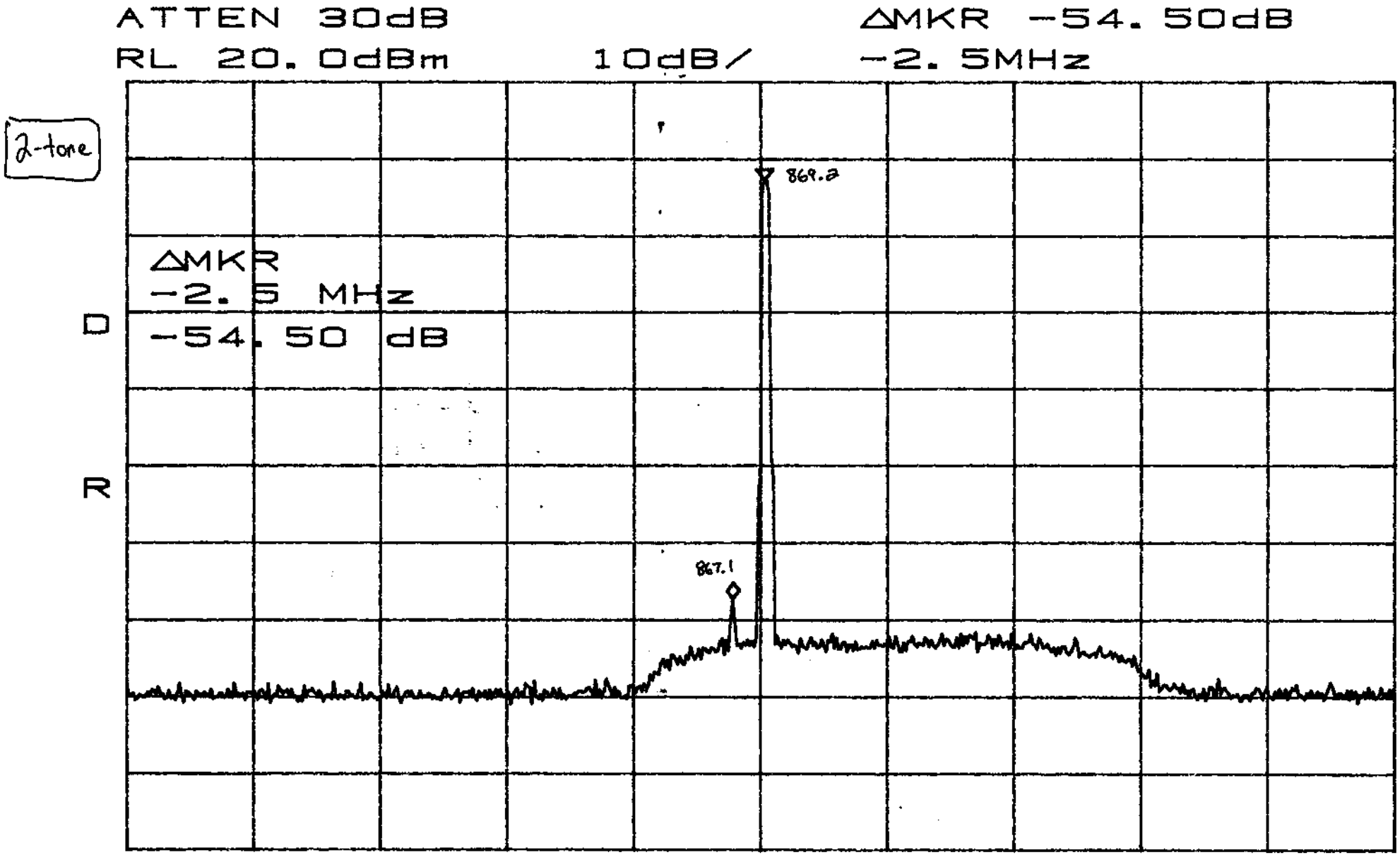
4/6/98
Δ due to minor variations in gain over BW



DL Input Freq: 869.2 MHz
869.4 MHz
(GSM Source)

Output Intermod,
MAX HOLD

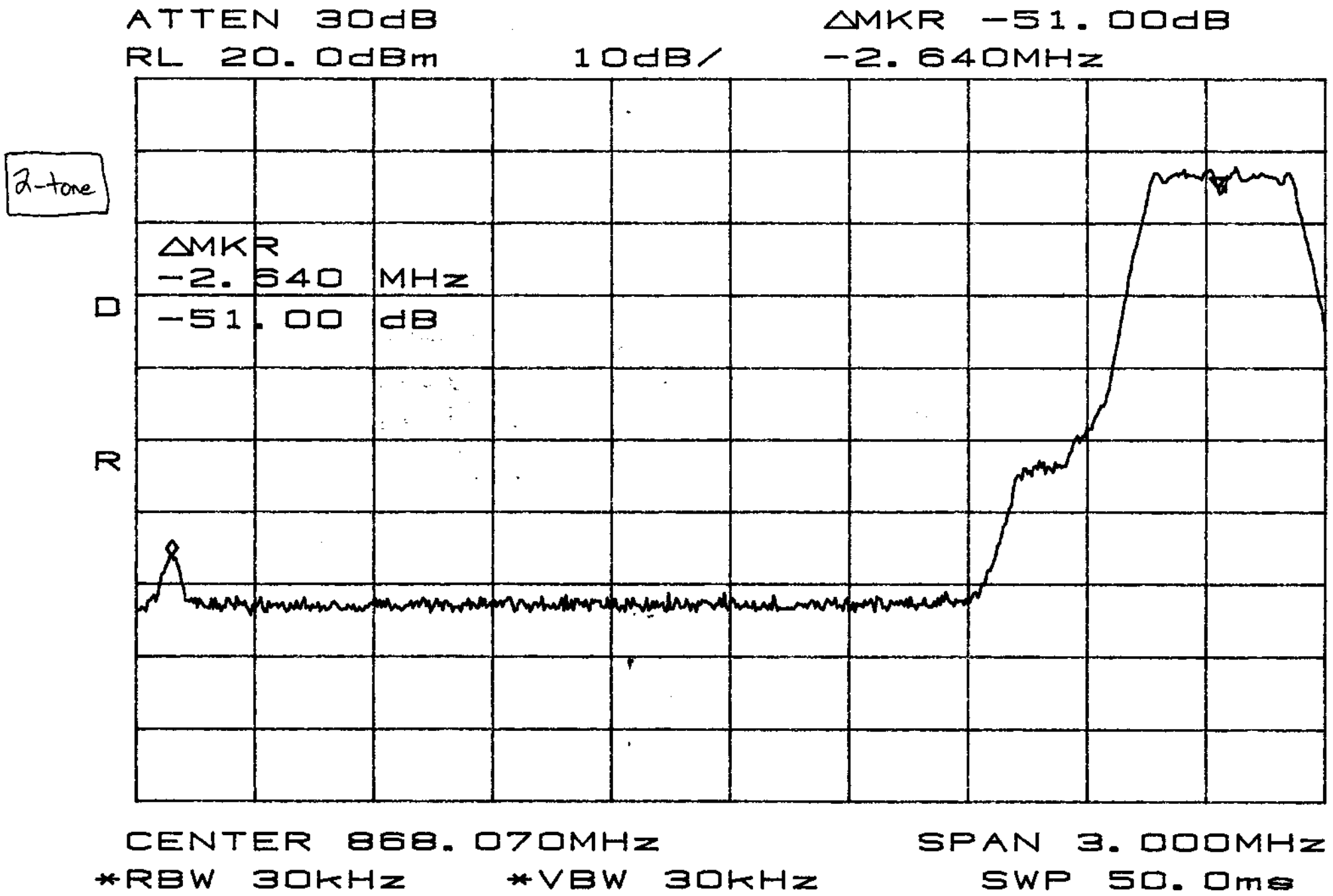
4/6/98



Input Freq: 869.2 MHz
869.4 MHz
(GSM Source)

Output Intermods
MAX HOLD

4/6/98



Input Freq: 869.2 MHz
869.4 MHz

Input Signals
MAX HOLD

4/6/98