

Close
FM

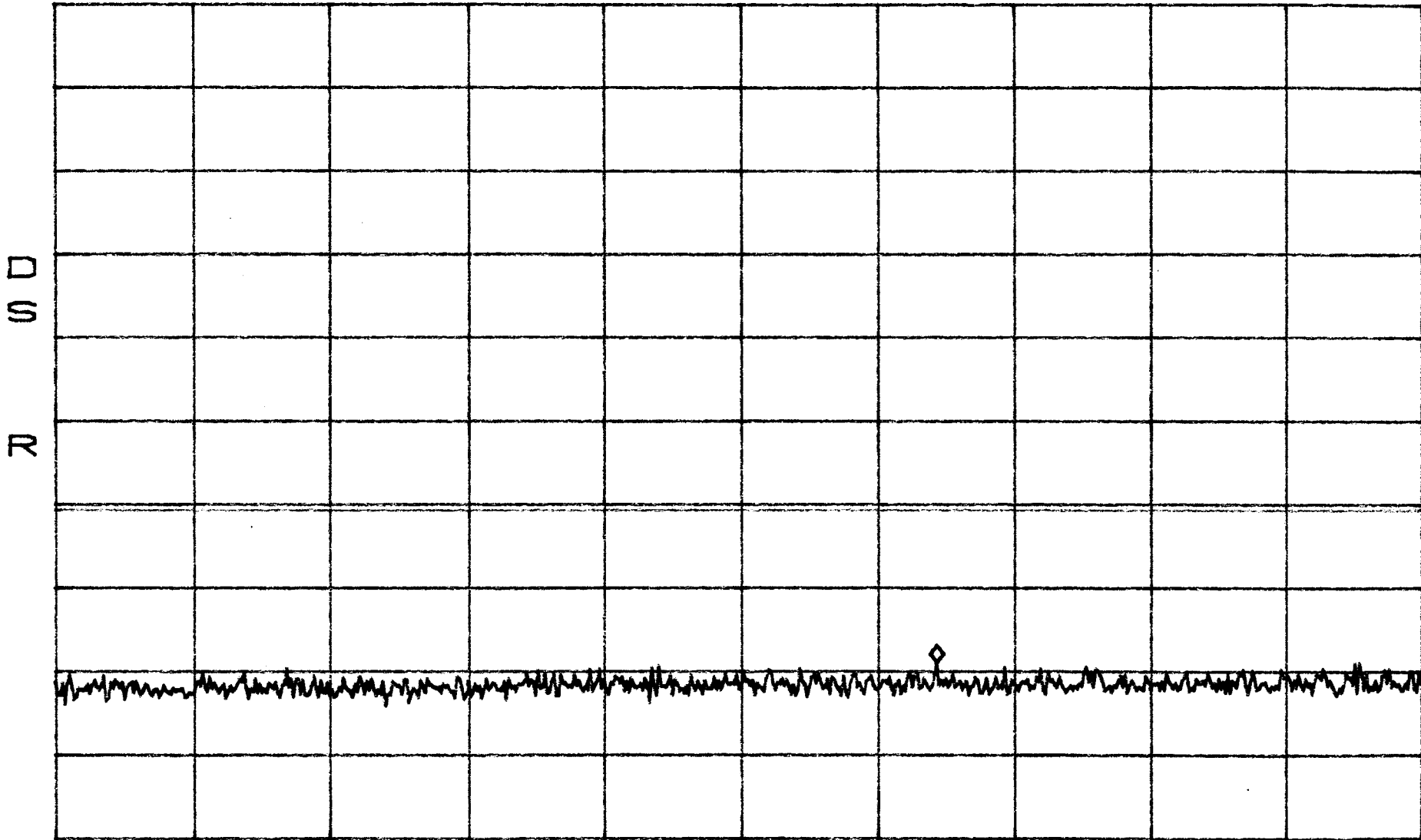
*ATTEN 20dB

RL 47.8dBm

10dB/

MKR -31.03dBm

654.0MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

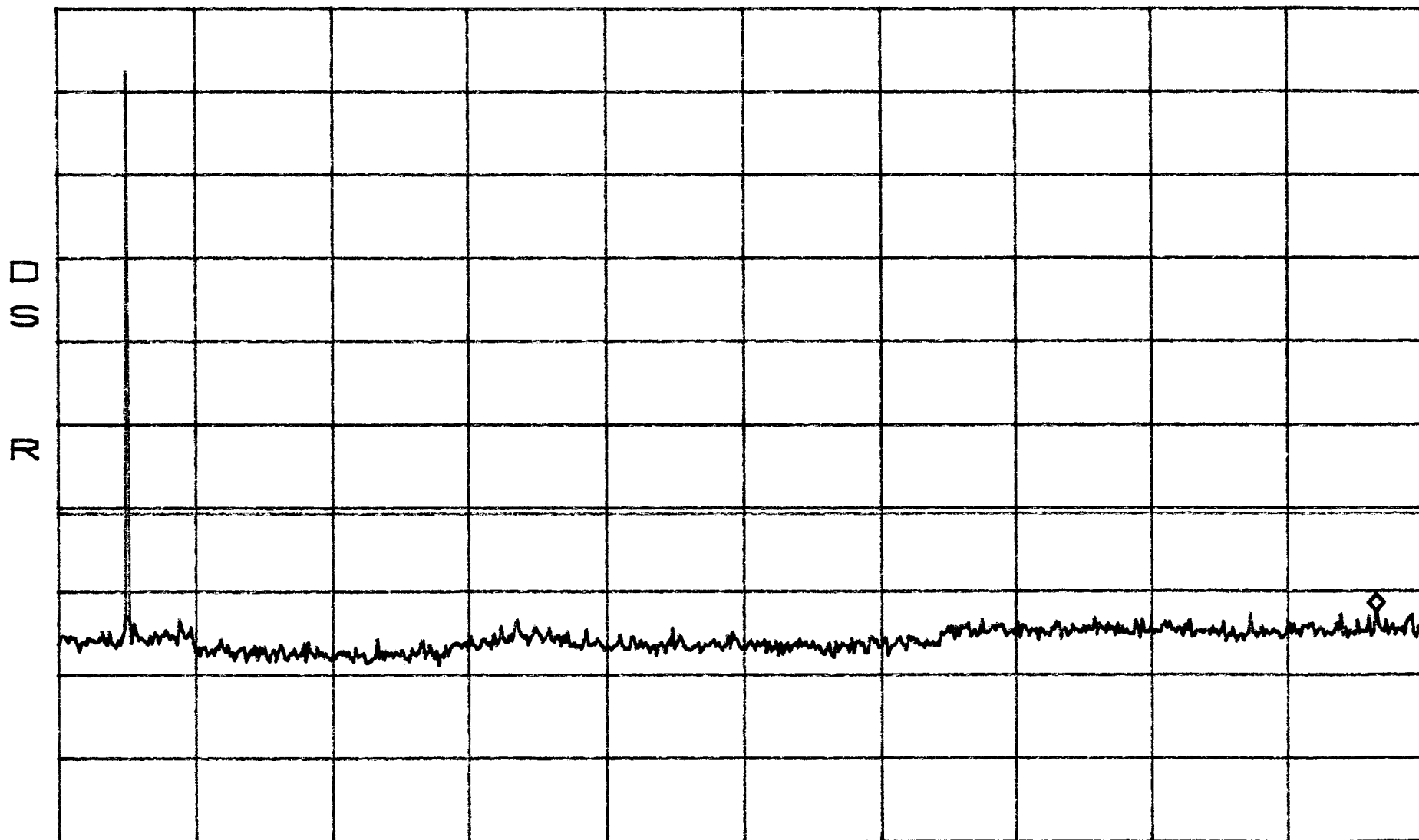
Intermodulation
Close
FM

Band D,B,E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.53dBm
19.30GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

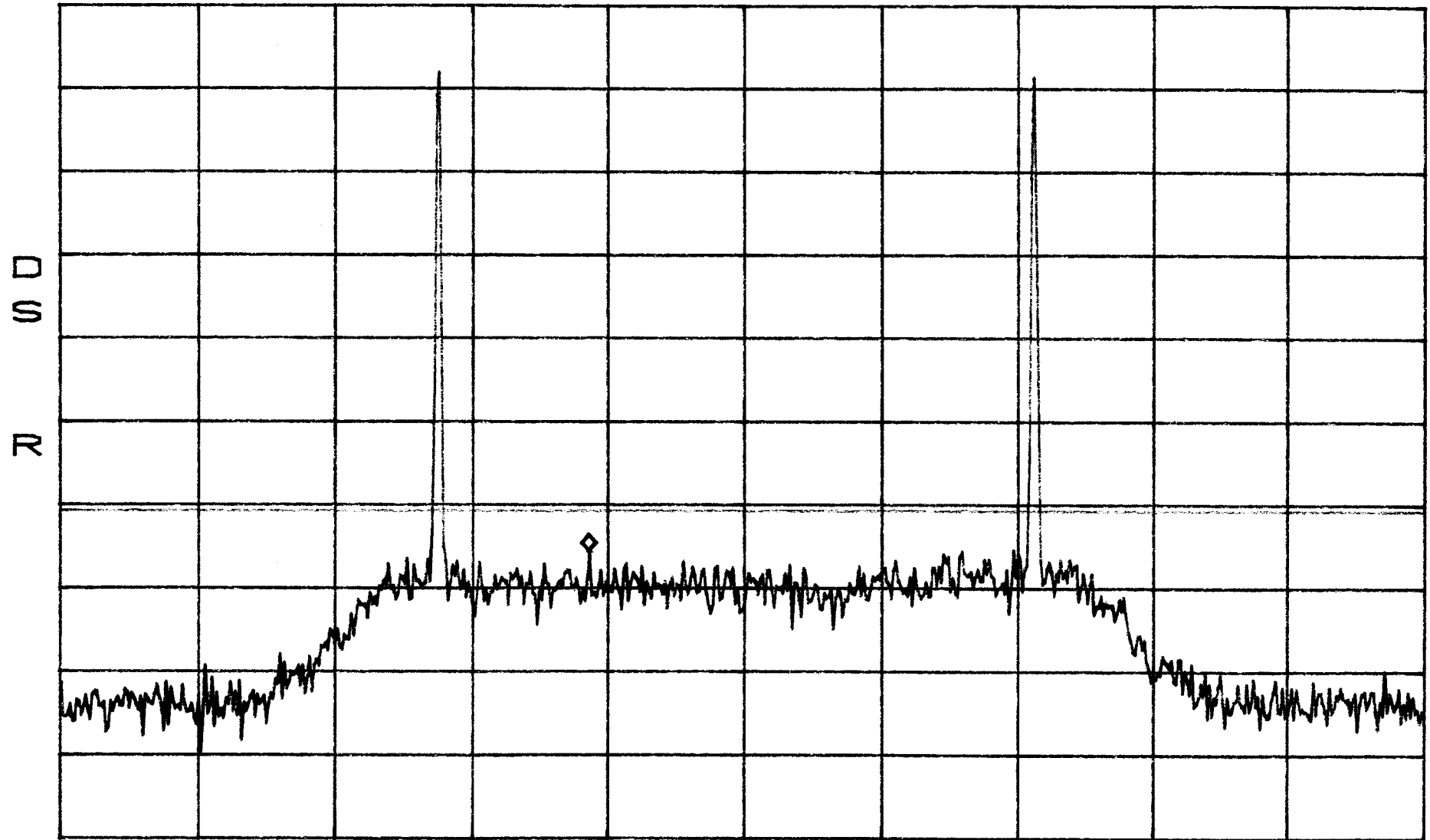
Intermodulation
Apert
FM

BAND D,B,t

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -17.70dBm
1.95183GHz



CENTER 1.95750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

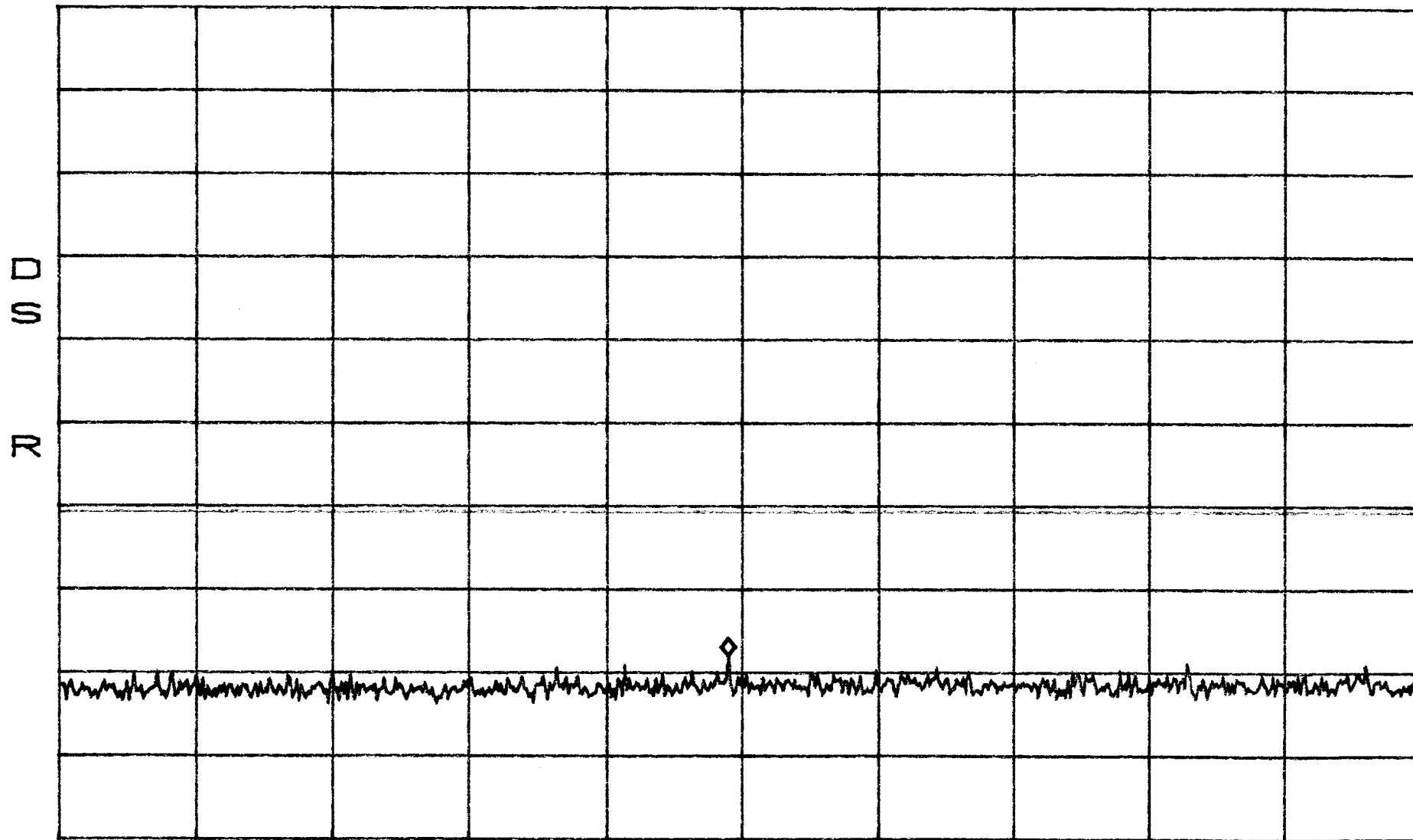
Intermodulation
Apert
FM

BAND D, B, E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.03dBm
505.3MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

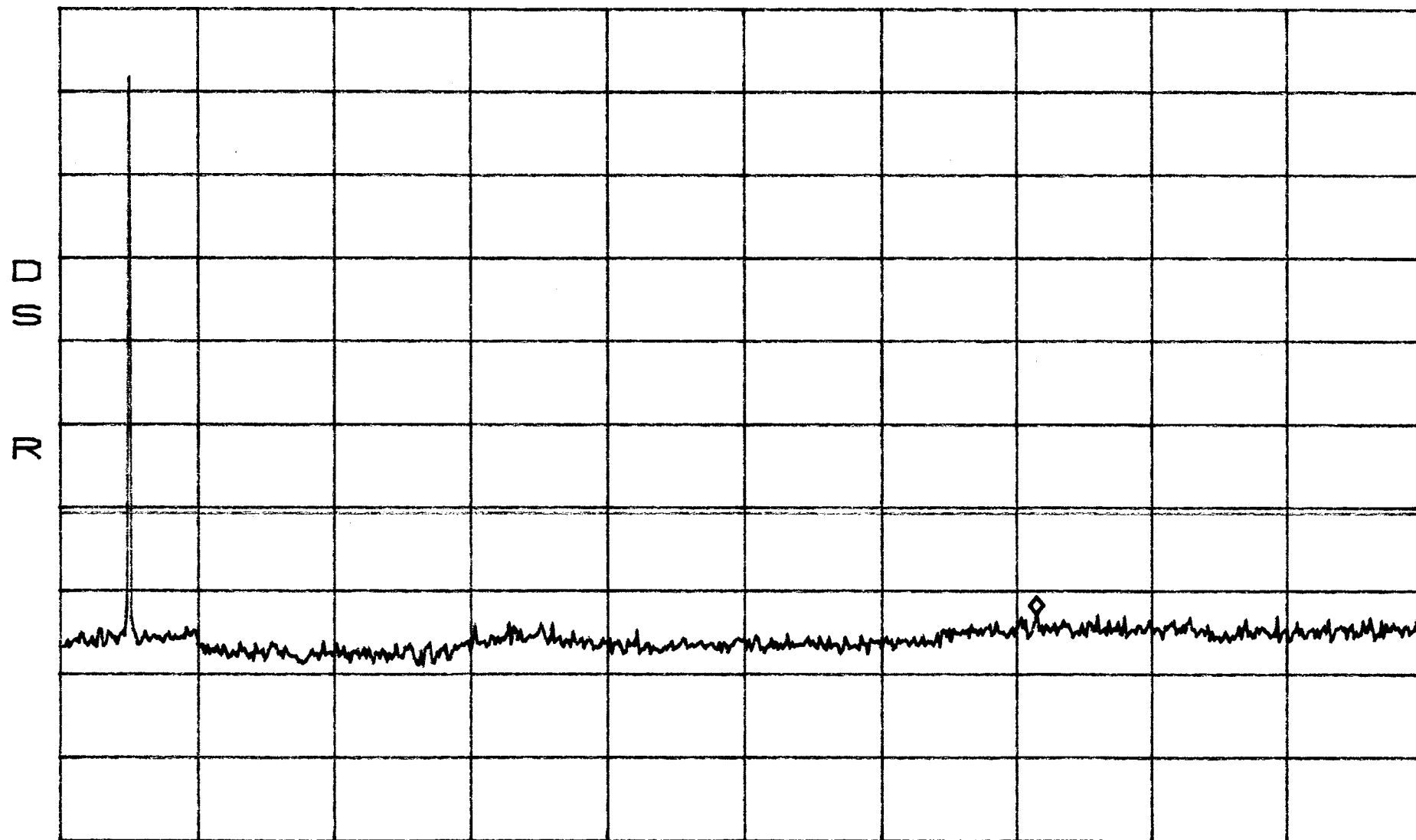
SWP 2.7sec

Intermodulation BAND D,B,E
Apert
FM

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.87dBm
14.59GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

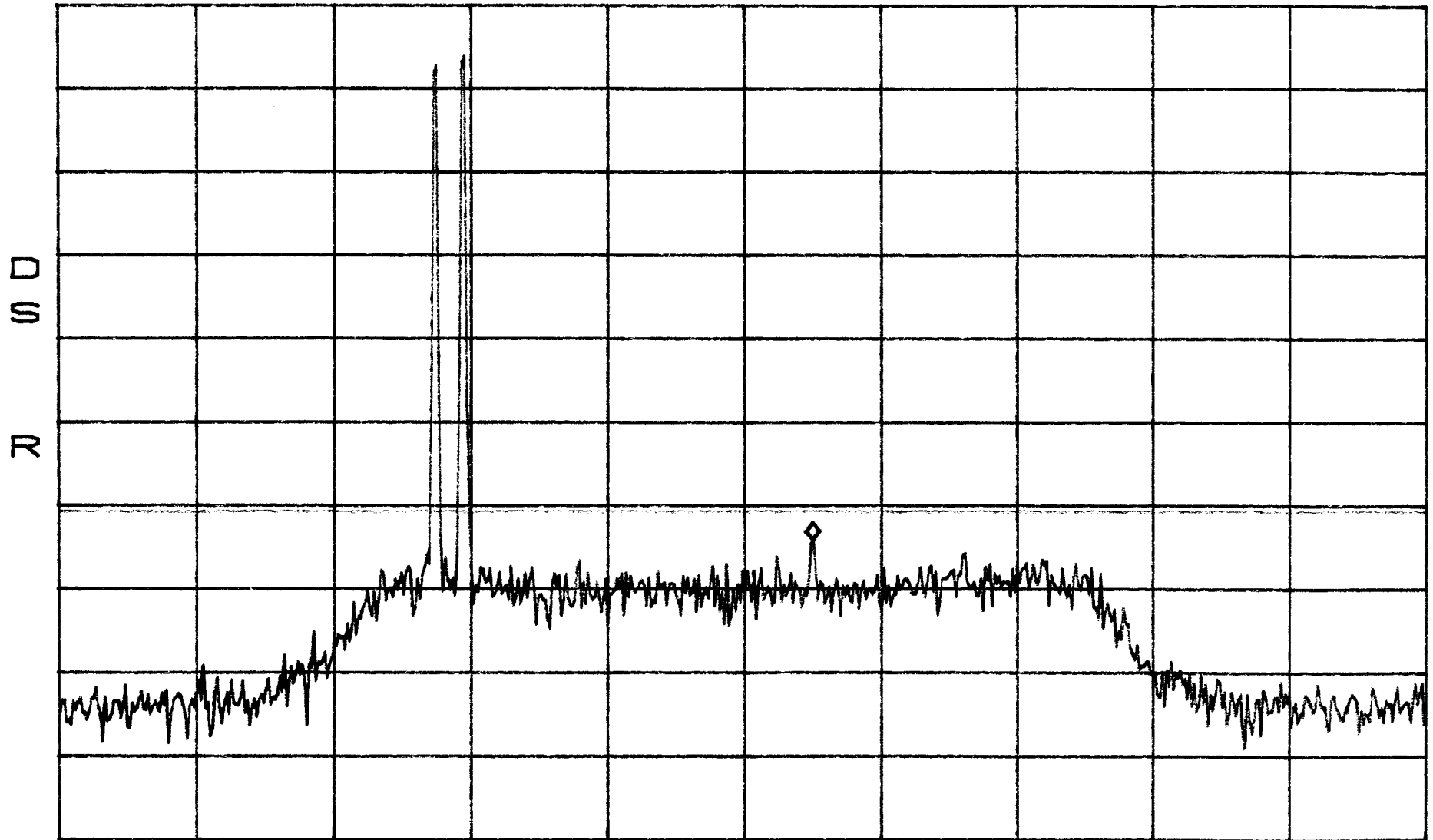
Intermodulation
Close
TDMA

BAND D,B,E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -16.20dBm
1.96000GHz



CENTER 1.95750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

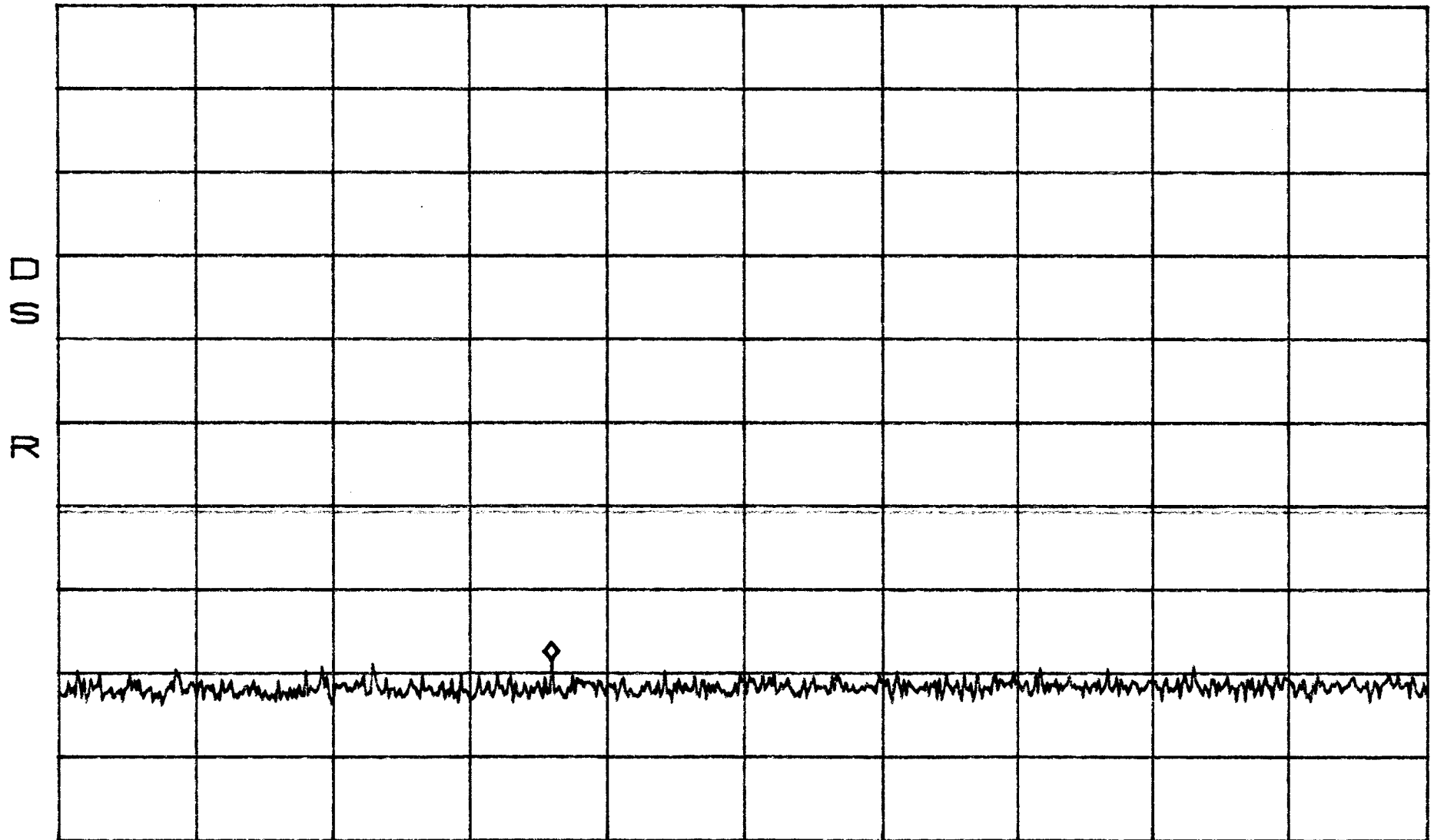
Intermodulation
Close
TDMA

BAND D,B,E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.53dBm
379.2MHz



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

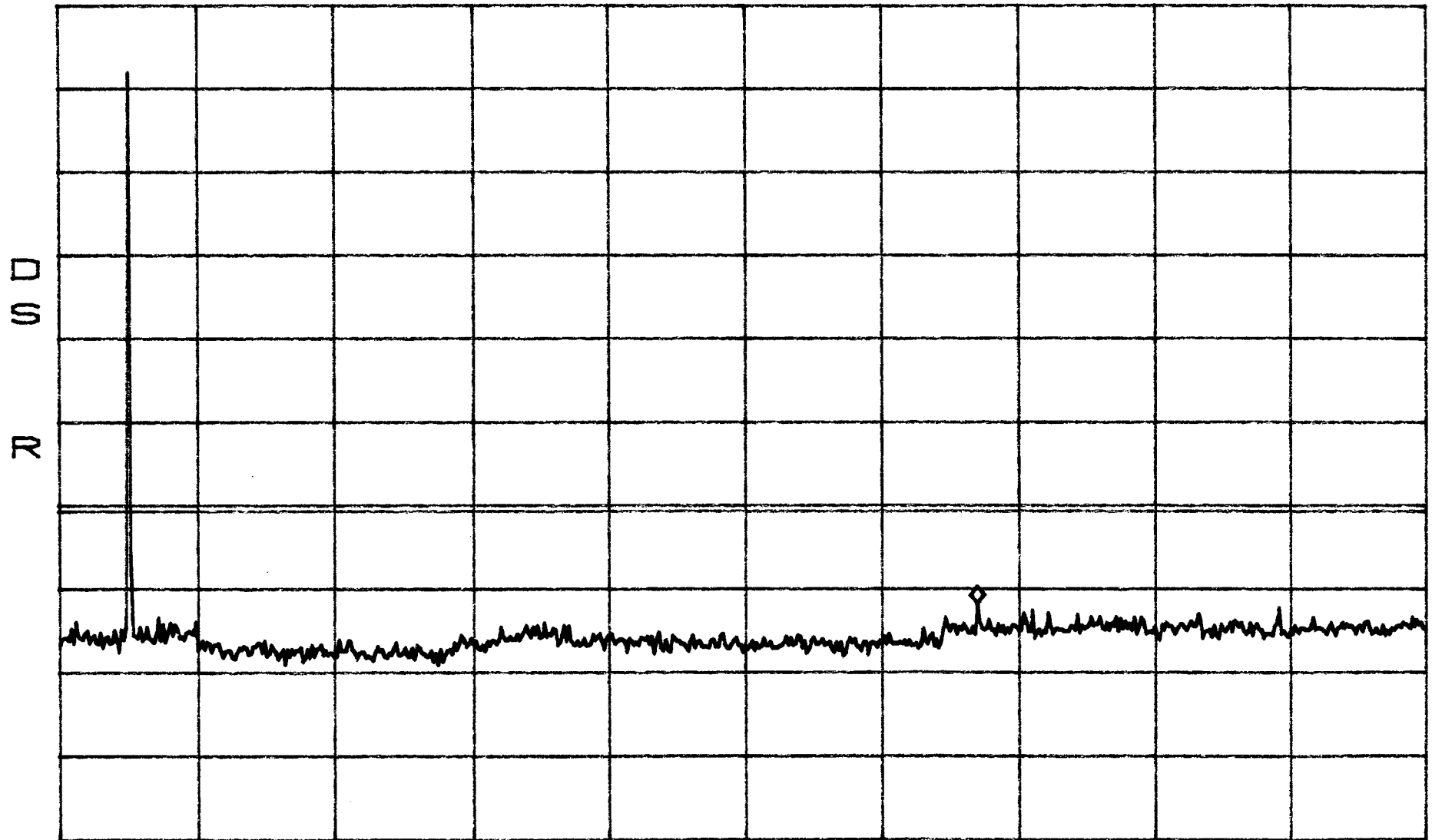
Intermodulation
Close
TDMA

BAND D₁B₁F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -23.87dBm
13.73GHz



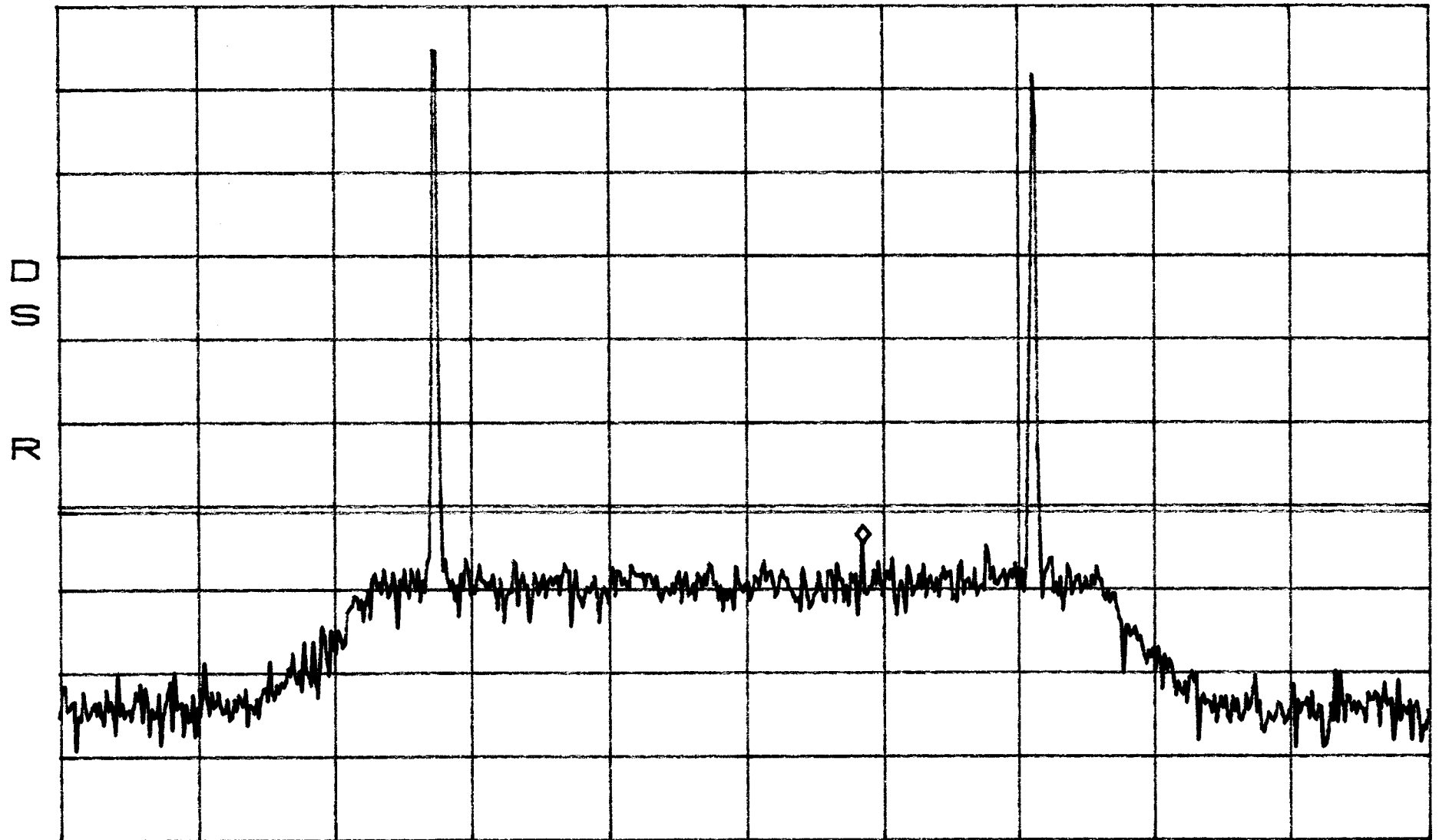
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Intermodulation BAND D,B,E
Apart
TDMA

*ATTEN 20dB
RL 47.8dBm

MKR -16.53dBm
1.96175GHz

10dB/



CENTER 1.95750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

Intermodulation BAND D,B,E
Apert
TDMA

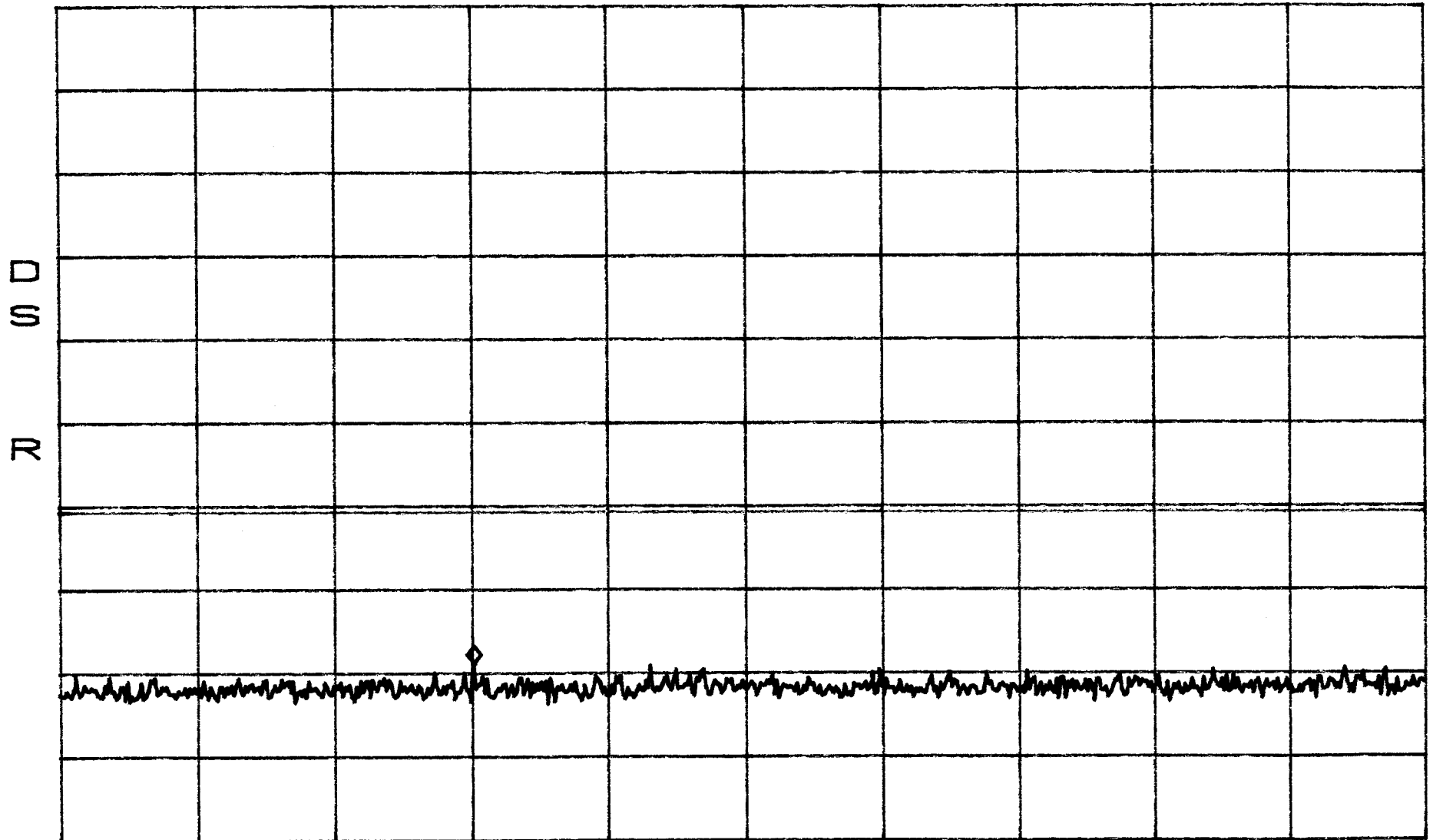
*ATTEN 20dB

MKR -30.87dBm

RL 47.8dBm

10dB/

322.6MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

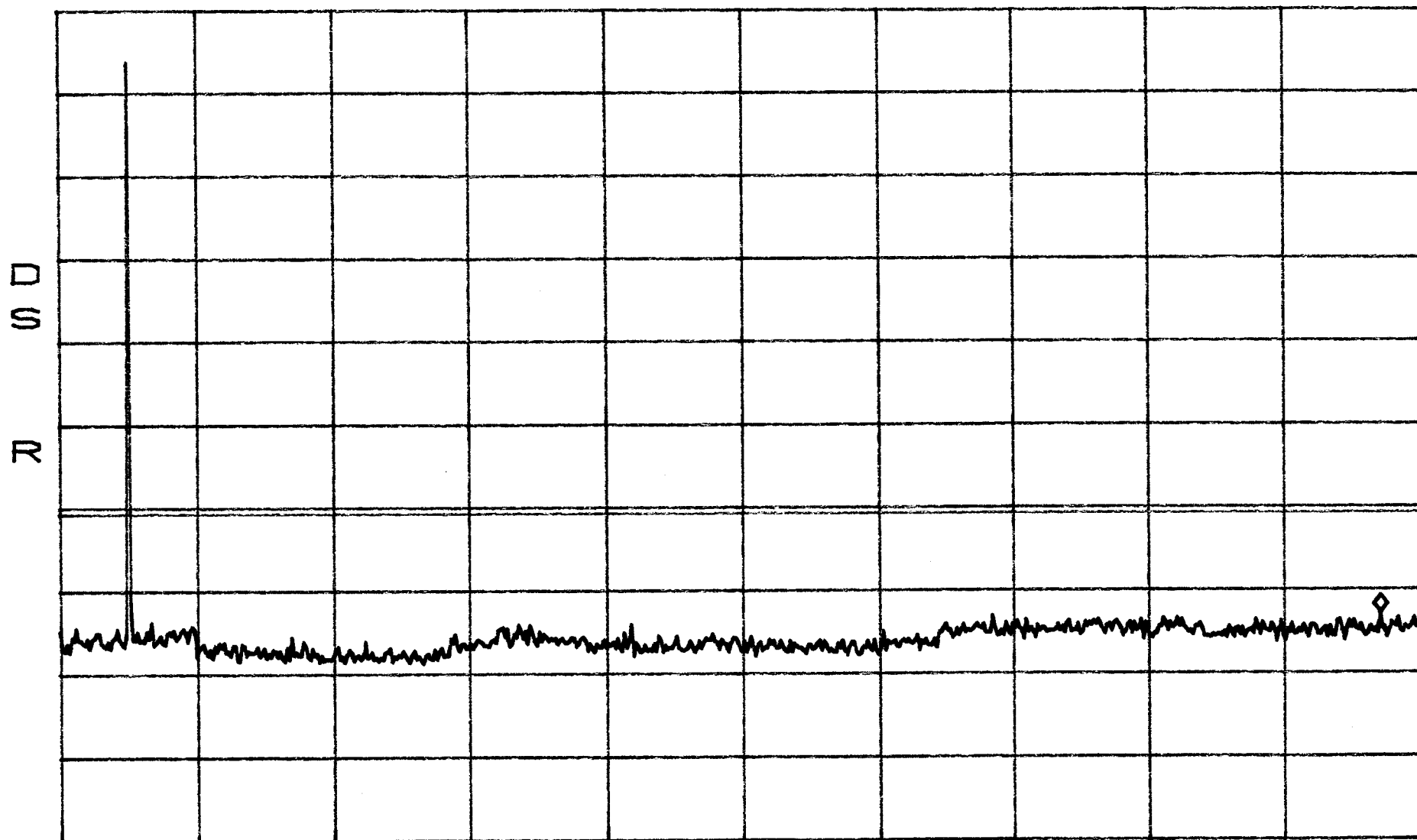
SWP 2.7sec

Intermodulation BAND D,B,E
Apart
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.87dBm
19.40GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

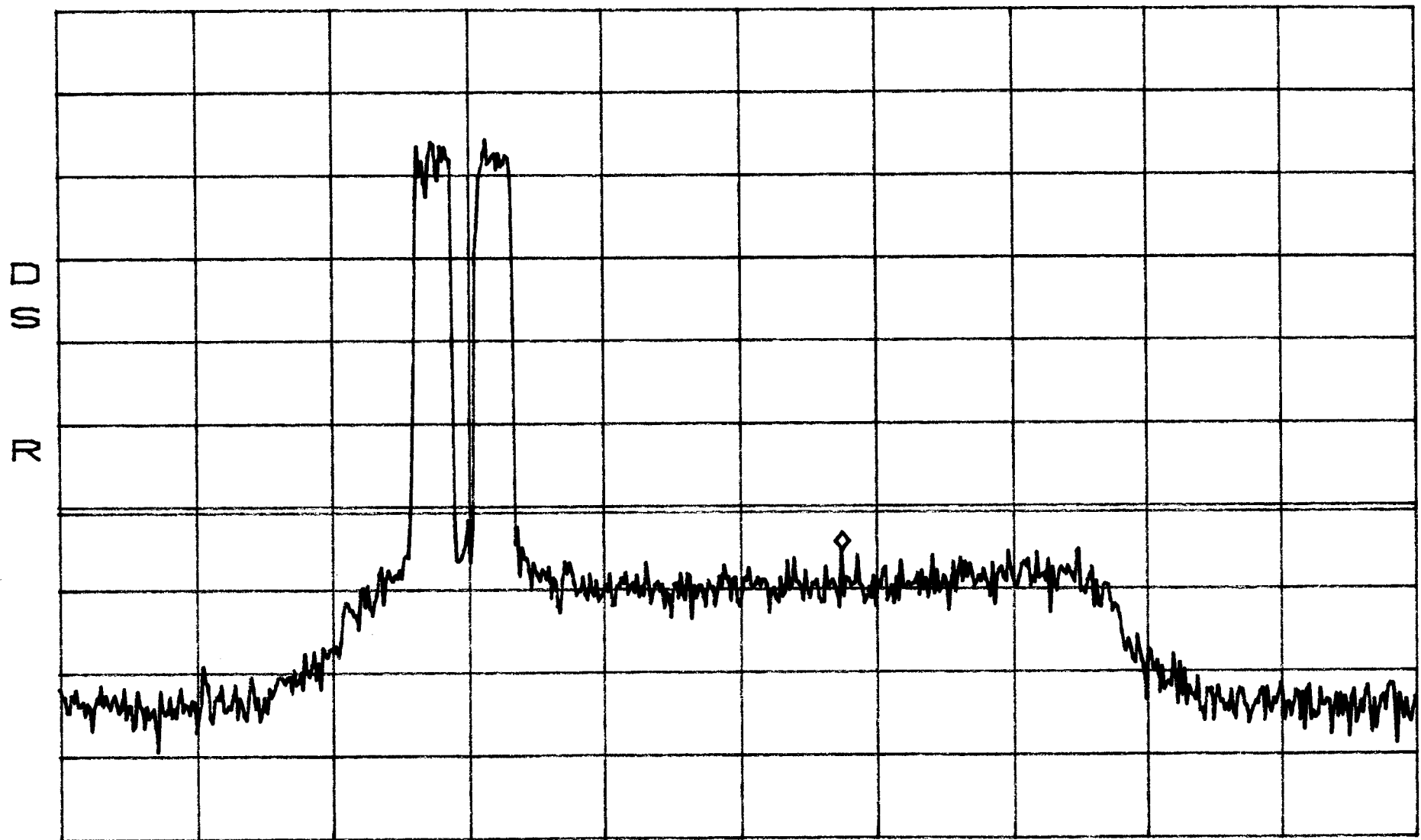
Intermodulation
Close
CDMA

BAND D,B,E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -17.37dBm
1.96125GHz



CENTER 1.95750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

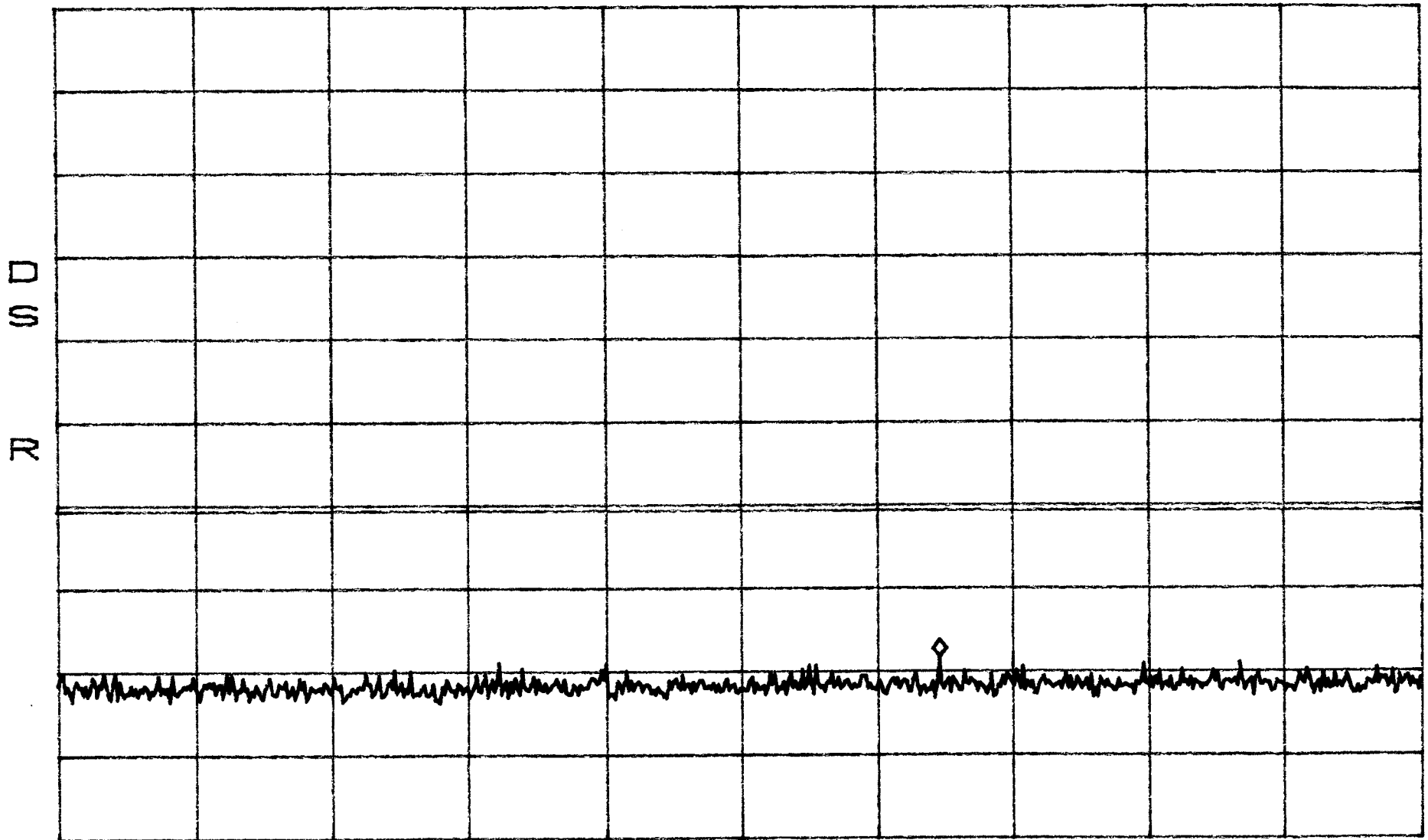
Intermodulation
Close
CDMA

BAND D,B,E

*ATTN 20dB
RL 47.8dBm

10dB/

MKR -30.37dBm
657.3MHz



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation
Close
CDMA

BAND D,B,E

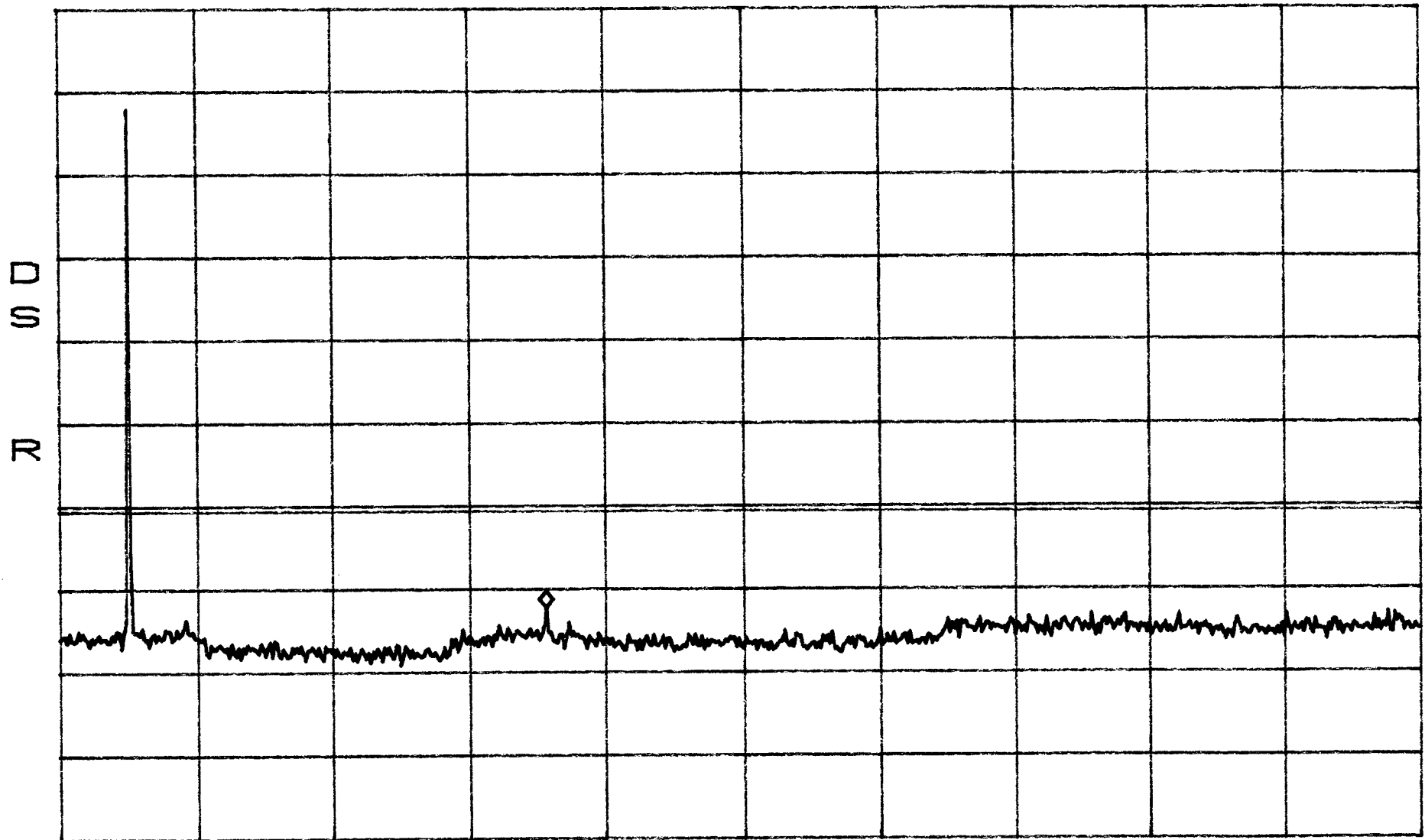
*ATTEN 20dB

MKR -24.37dBm

RL 47.8dBm

10dB/

7.78GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

SWP 4.8sec

Intermodulation
Apert
CDMA

BAND D,B,E

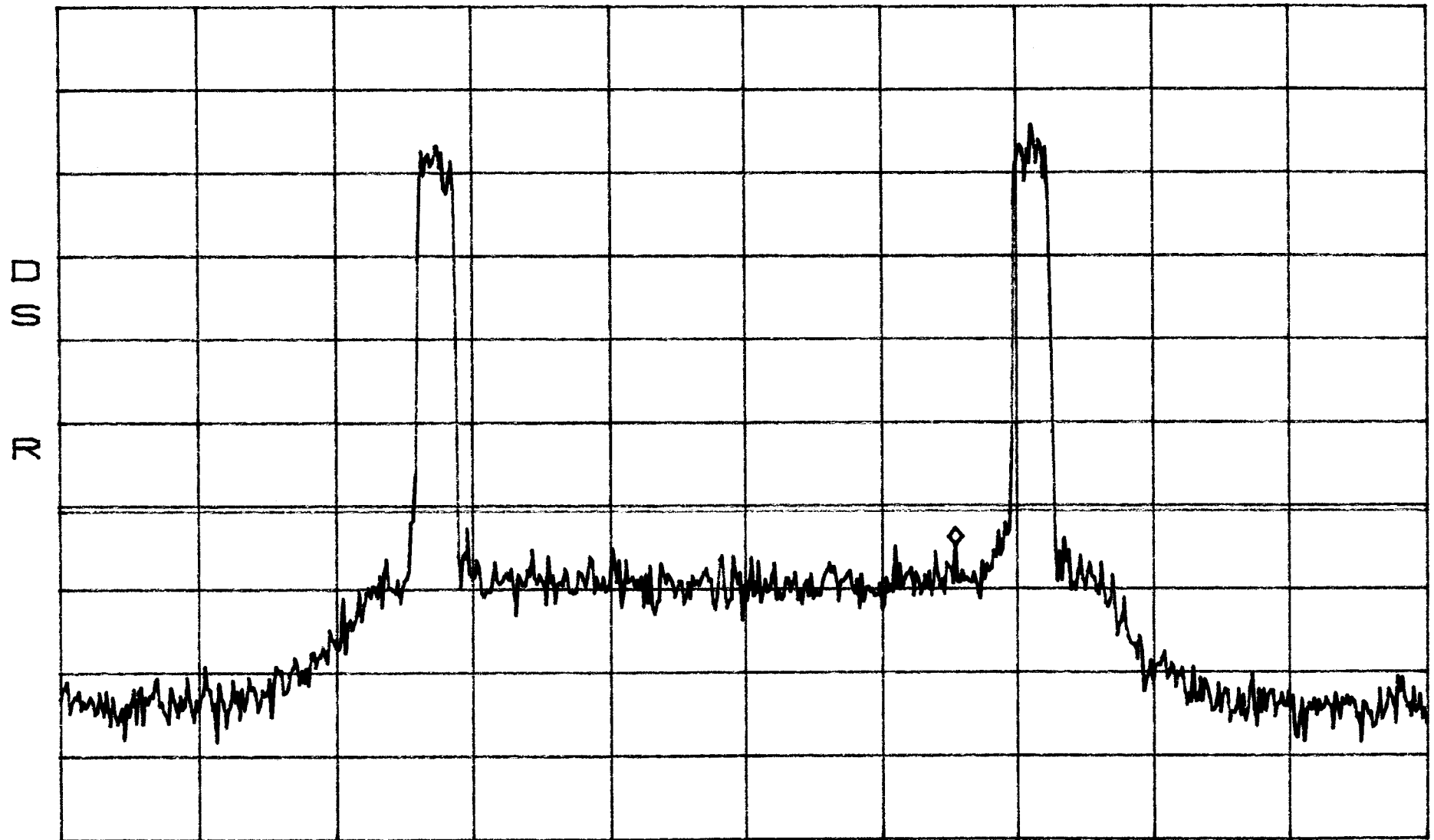
*ATTEN 20dB

RL 47.8dBm

10dB/

MKR -16.87dBm

1.96525GHz



CENTER 1.95750GHz

SPAN 50.00MHz

*RBW 30kHz

VBW 30kHz

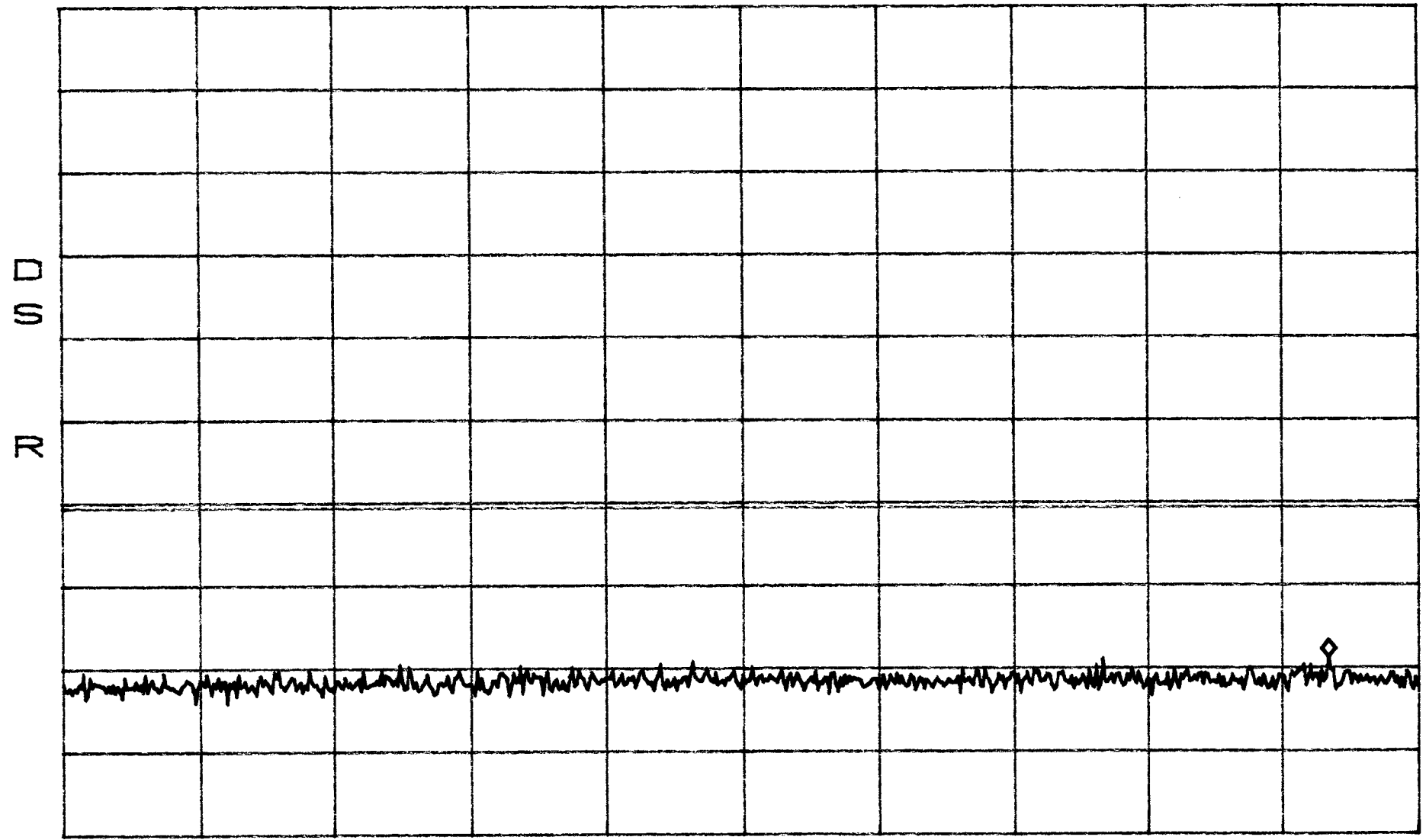
SWP 140ms

Intermodulation BAND D.B.E
Apert
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.87dBm
937.0MHz



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation
Apert
CDMA

BAND D,B,E

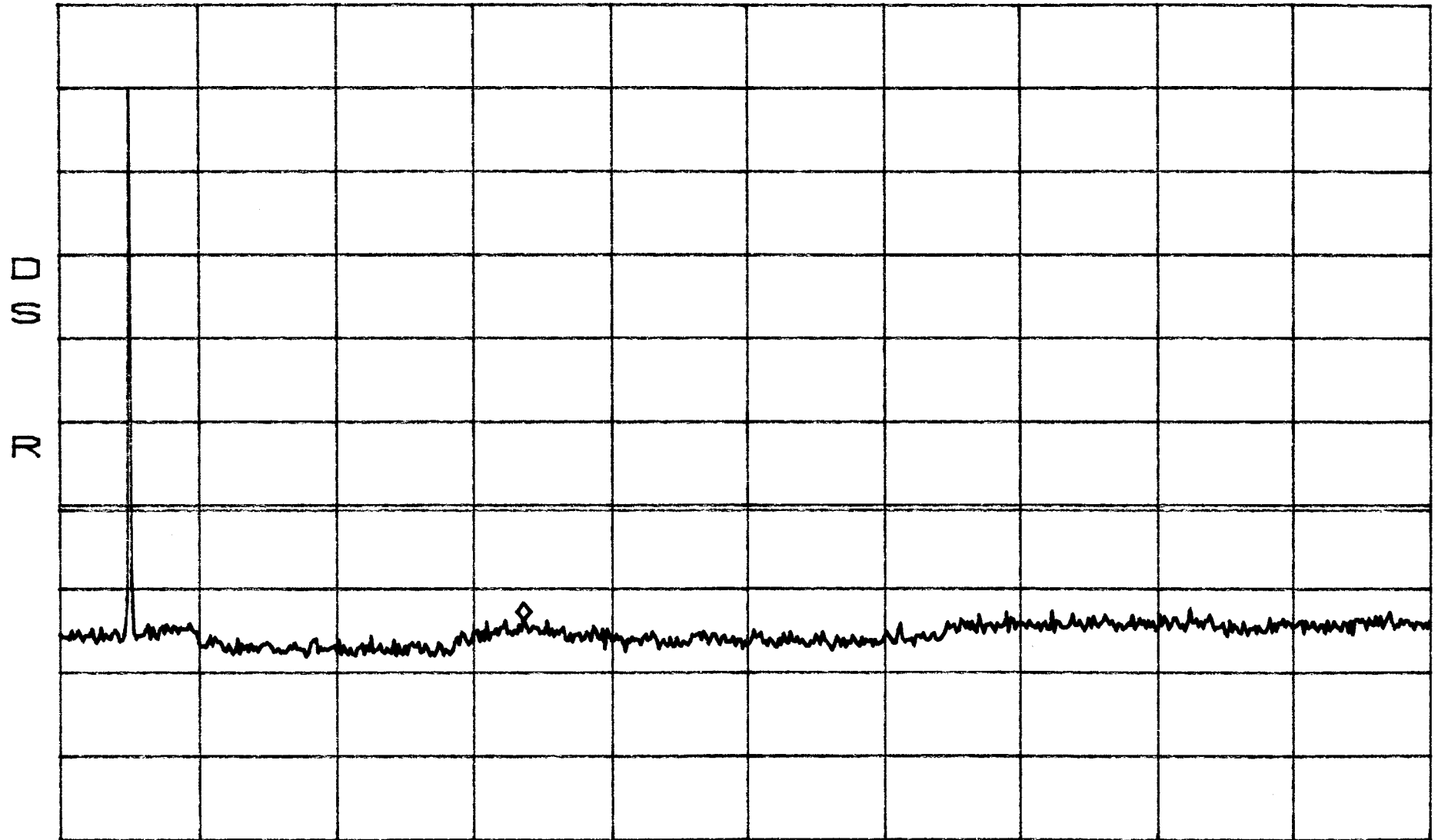
*ATTEN 20dB

RL 47.8dBm

10dB/

MKR -25.87dBm

7.40GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

SWP 4.8sec

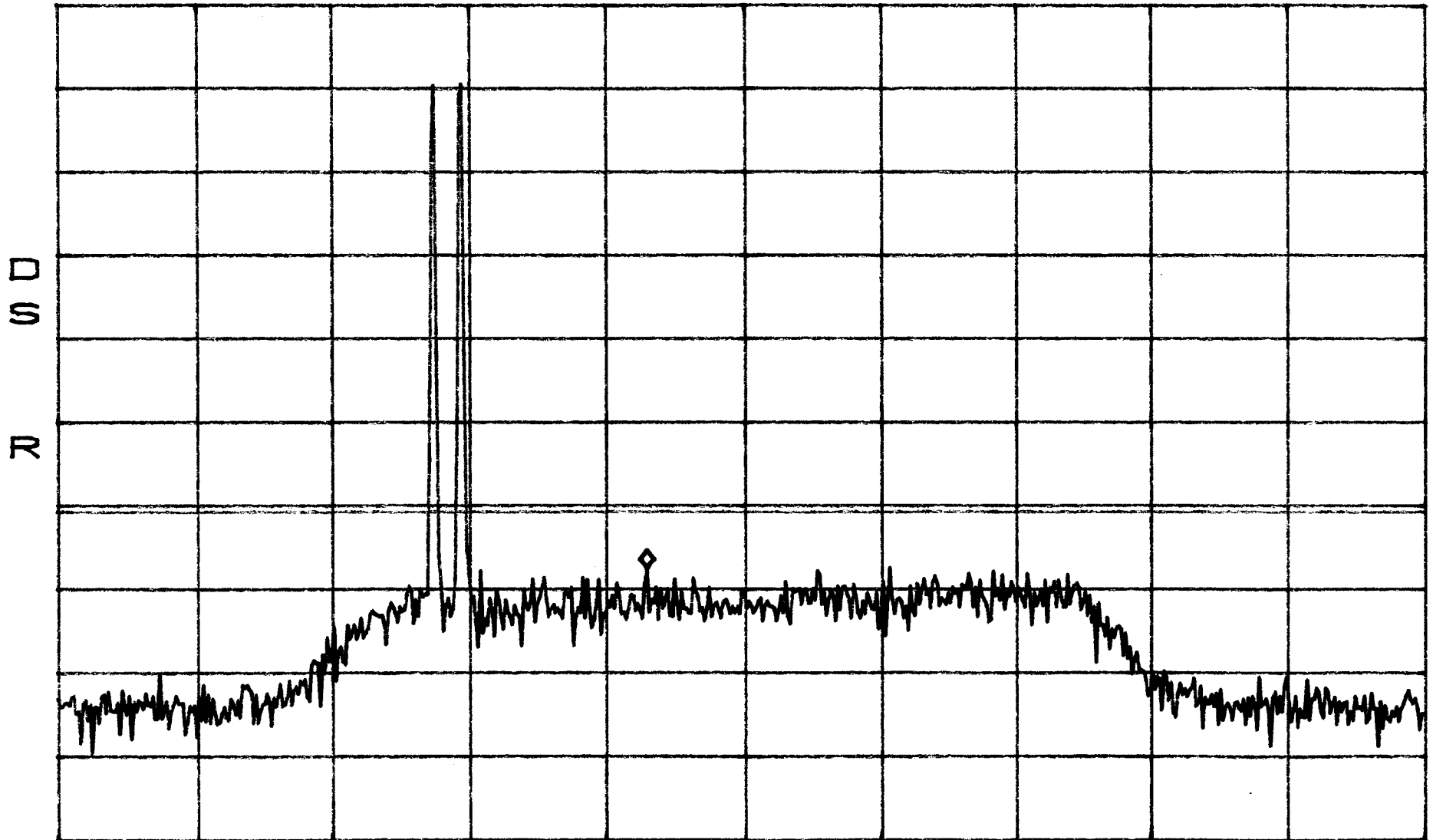
Intermodulation
Close
FM

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -19.53dBm
1.95900GHz



CENTER 1.96250GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

Intermodulation

BAND B,E,F

Close

FM

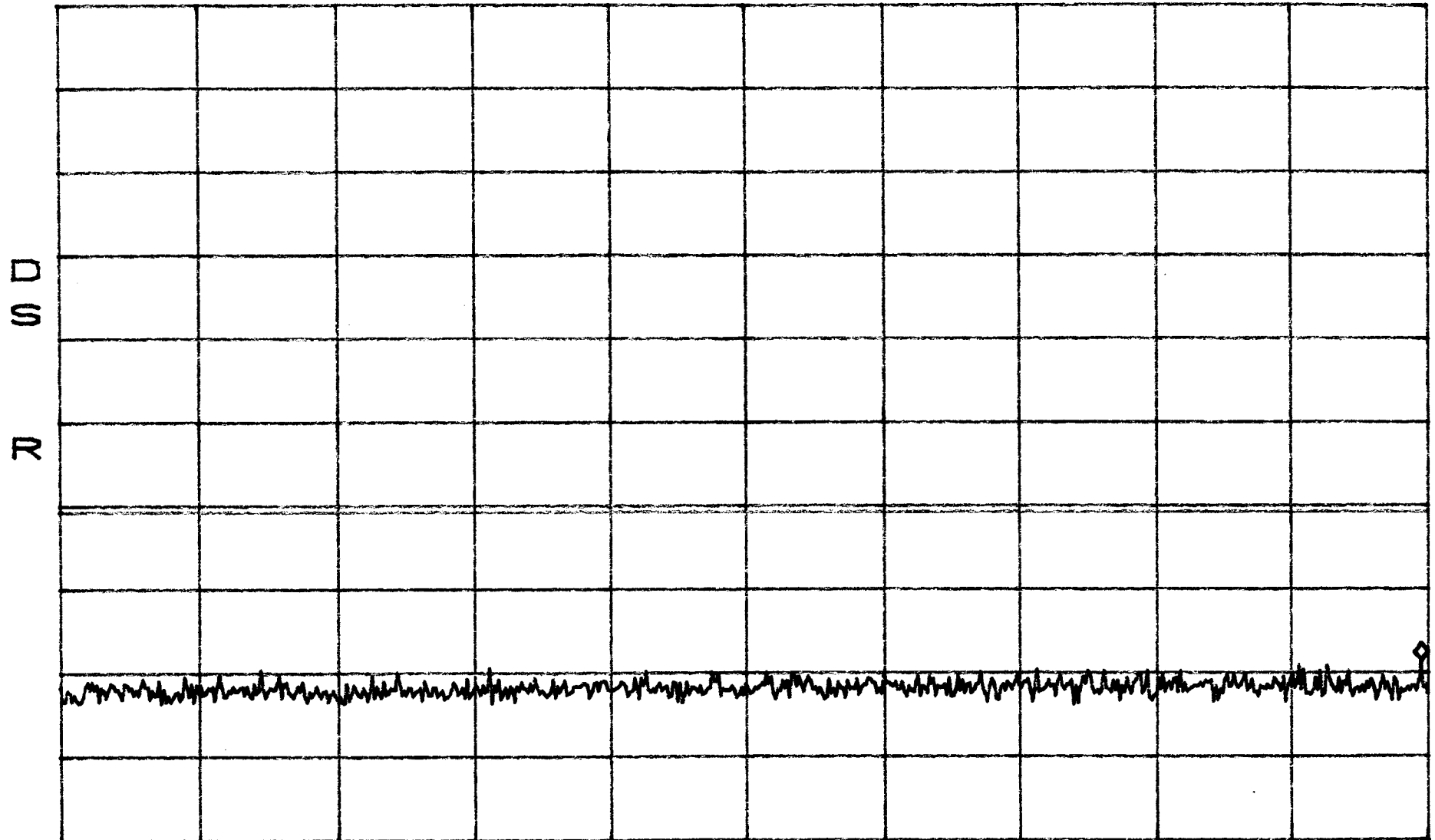
*ATTEN 20dB

MKR -30.70dBm

RL 47.8dBm

10dB/

995.2MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

Intermodulation

BAND B,E,F

Close

FM

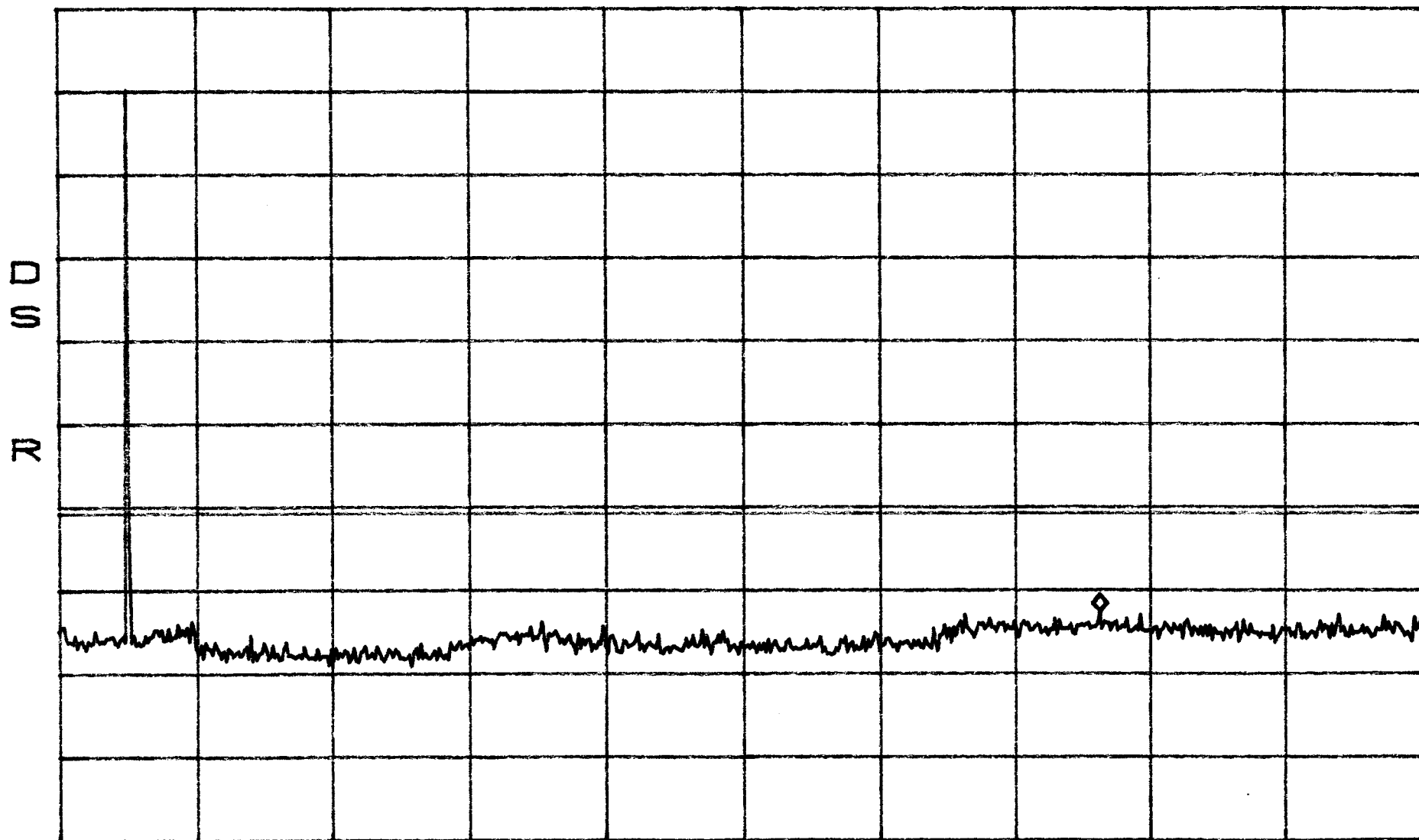
*ATTEN 20dB

MKR -24.70dBm

RL 47.8dBm

10dB/

15.50GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

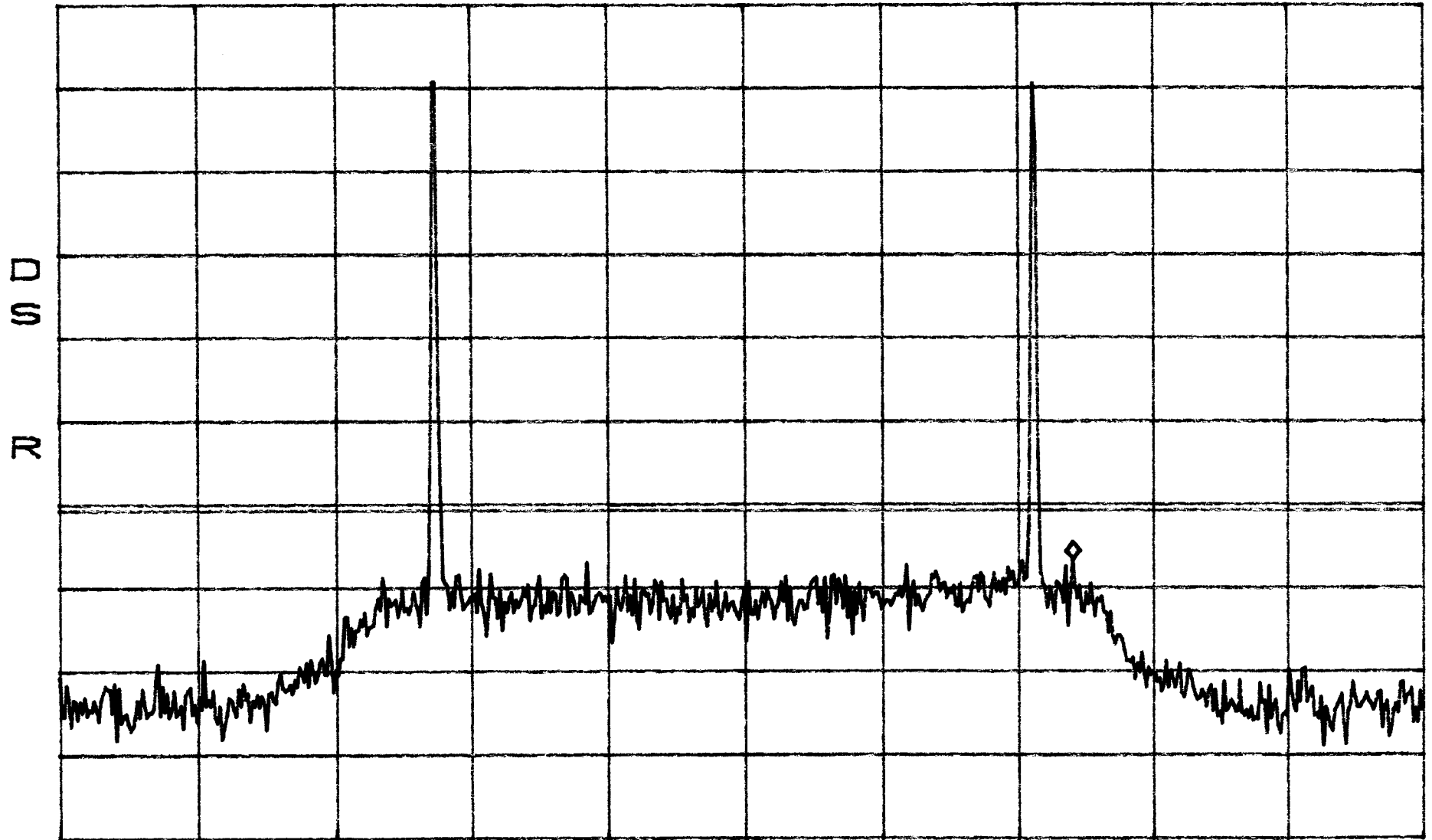
SWP 4.8sec

Intermodulation BAND B,E,F
Apert
FM

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -18.70dBm
1.97450GHz



CENTER 1.96250GHz SPAN 50.00MHz
*RBW 30kHz VBW 30kHz SWP 140ms

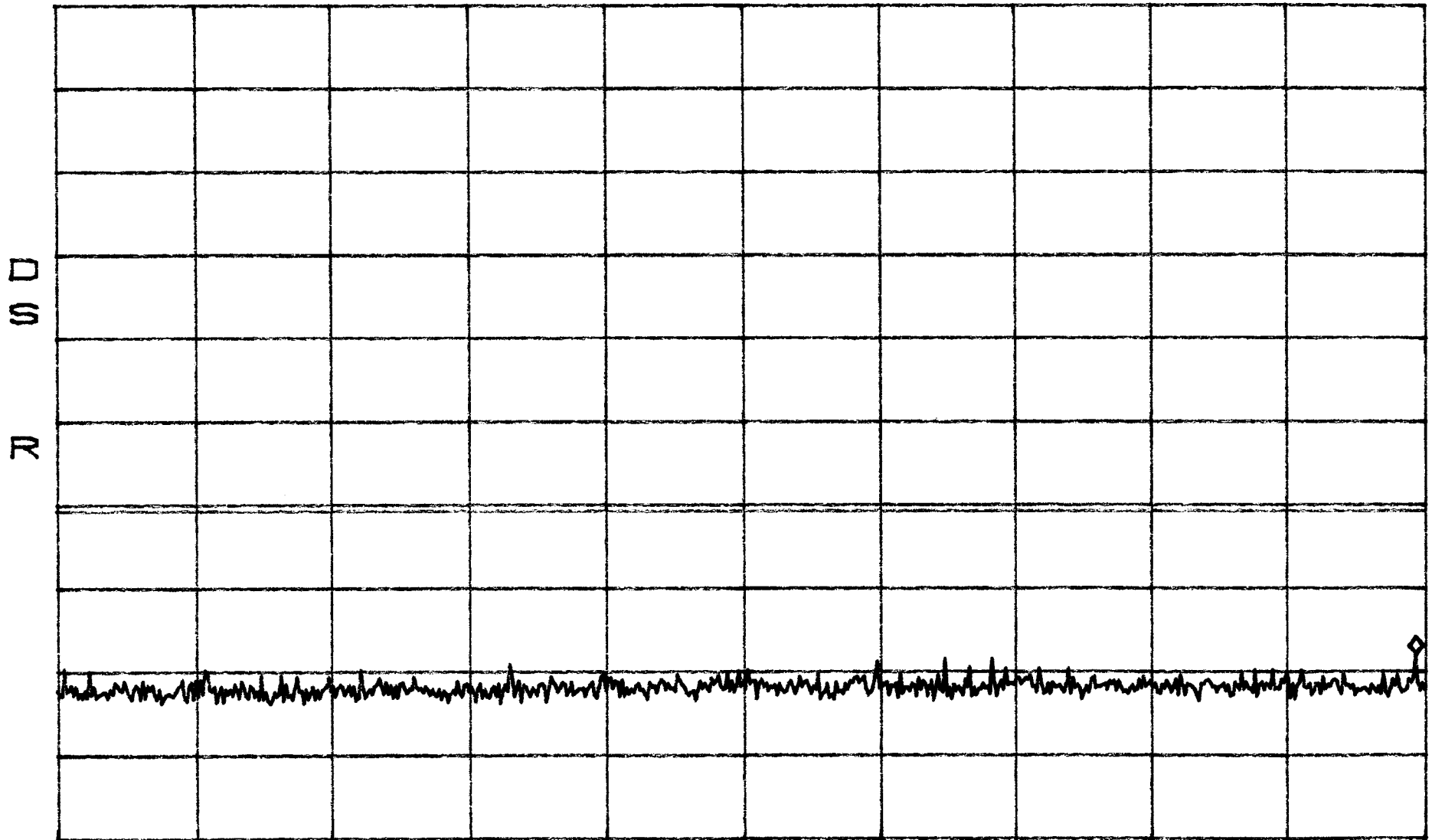
Intermodulation
Apert
FM

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.03dBm
993.5MHz



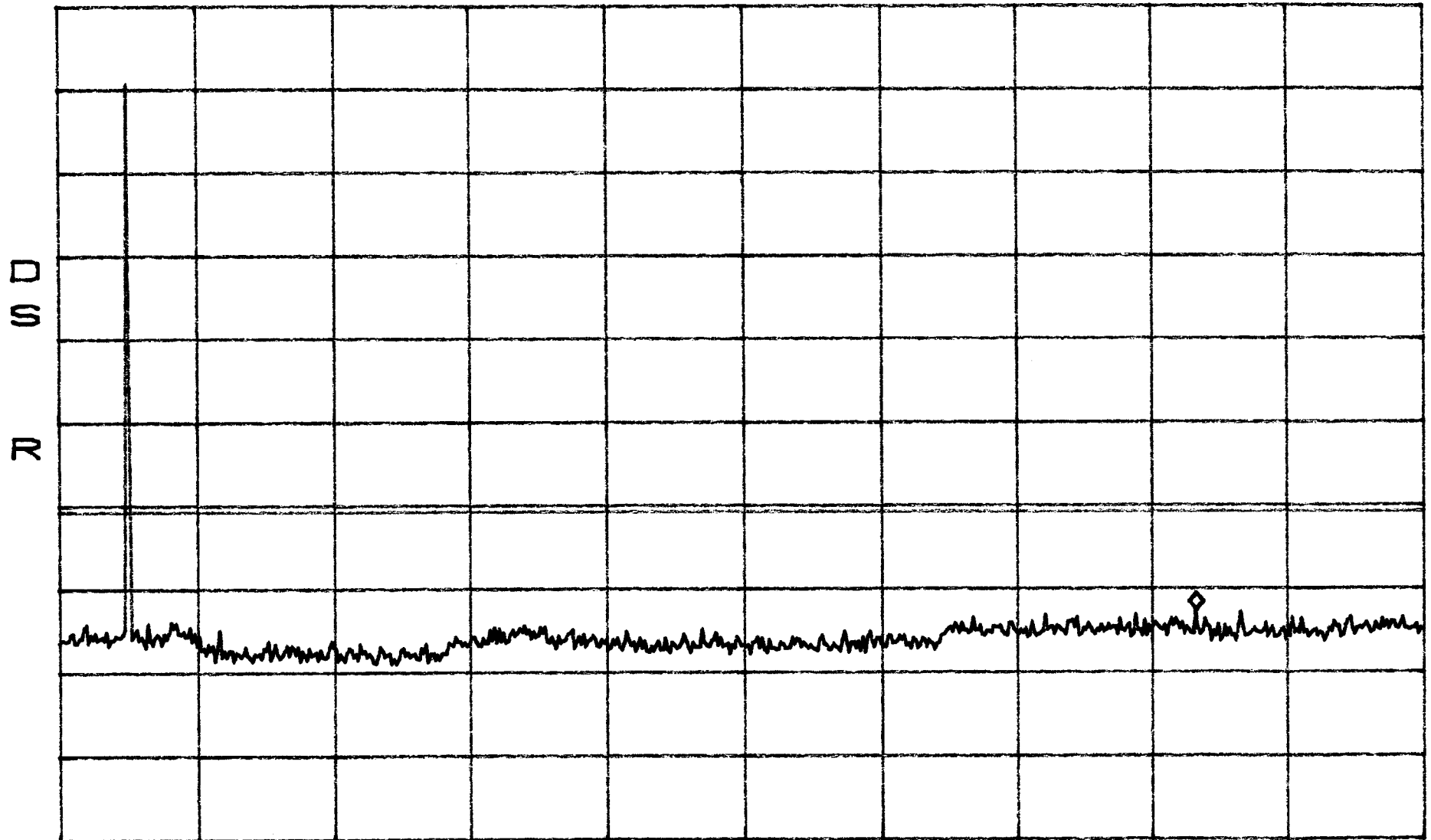
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND B,E,F
Apert
FM

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
16.83GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

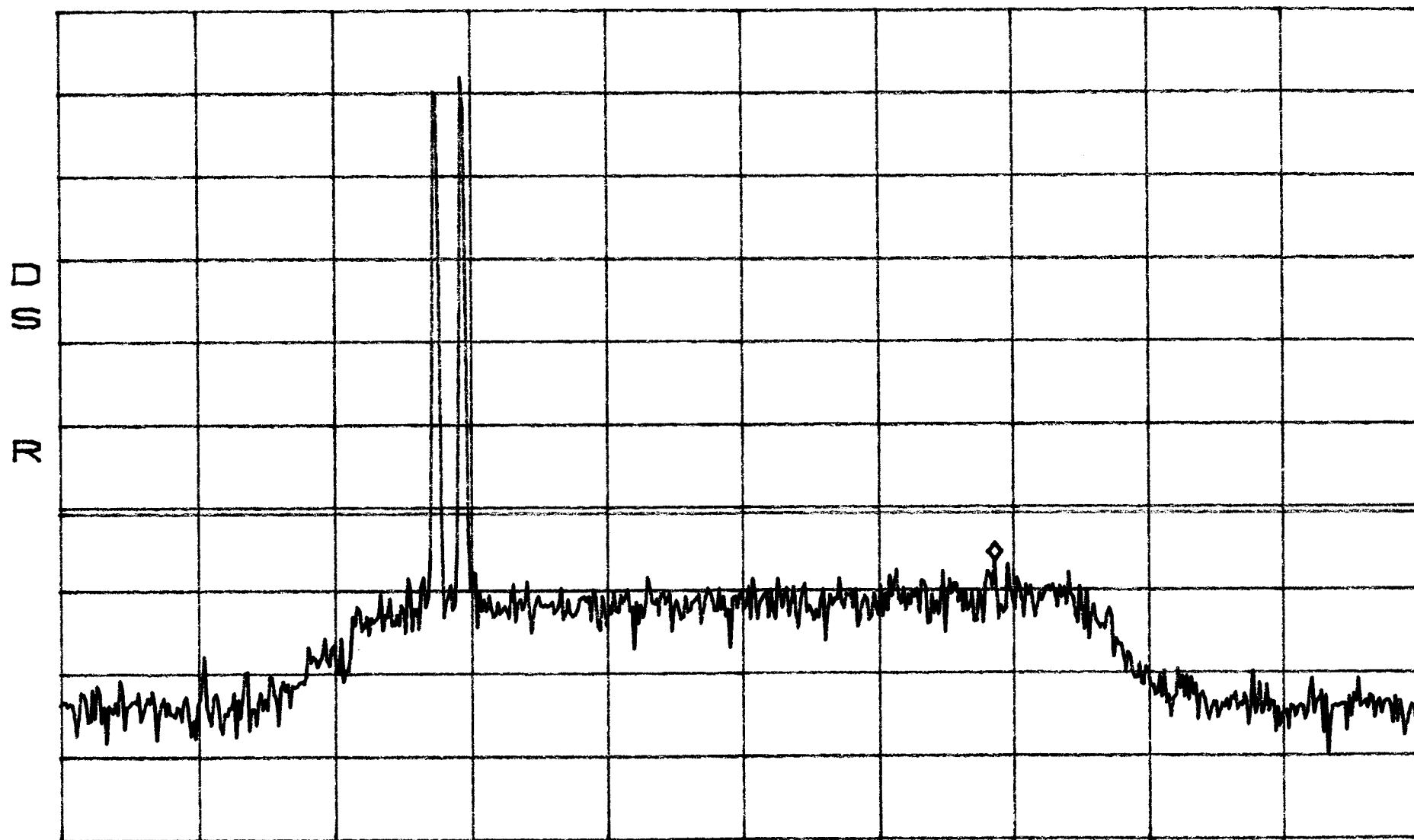
Intermodulation
Close
TDMA

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -18.53dBm
1.97183GHz



CENTER 1.96250GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

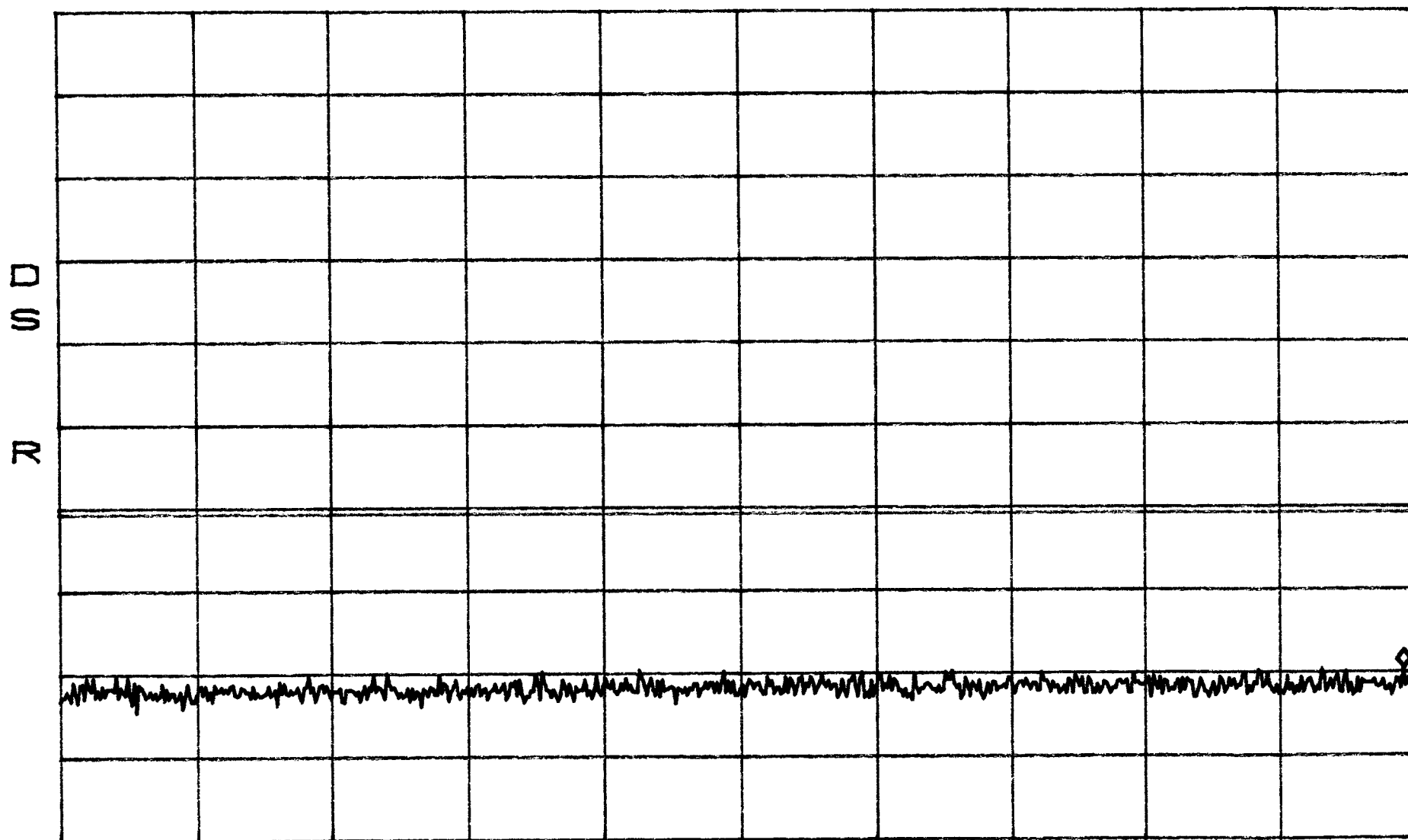
Intermodulation
Close
TDMA

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.53dBm
991.9MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

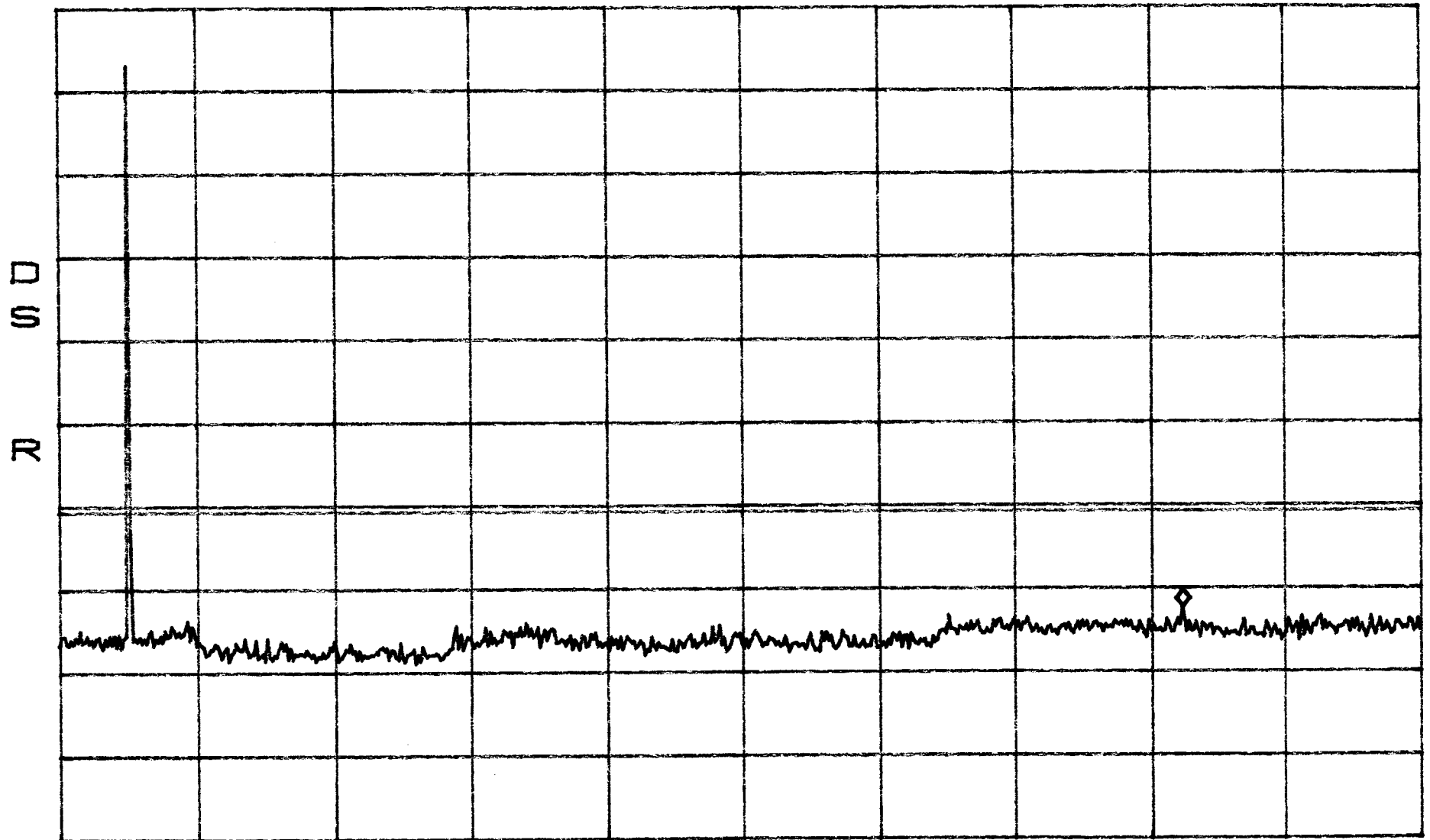
Intermodulation
Close
TDMA

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.37dBm
16.64GHz



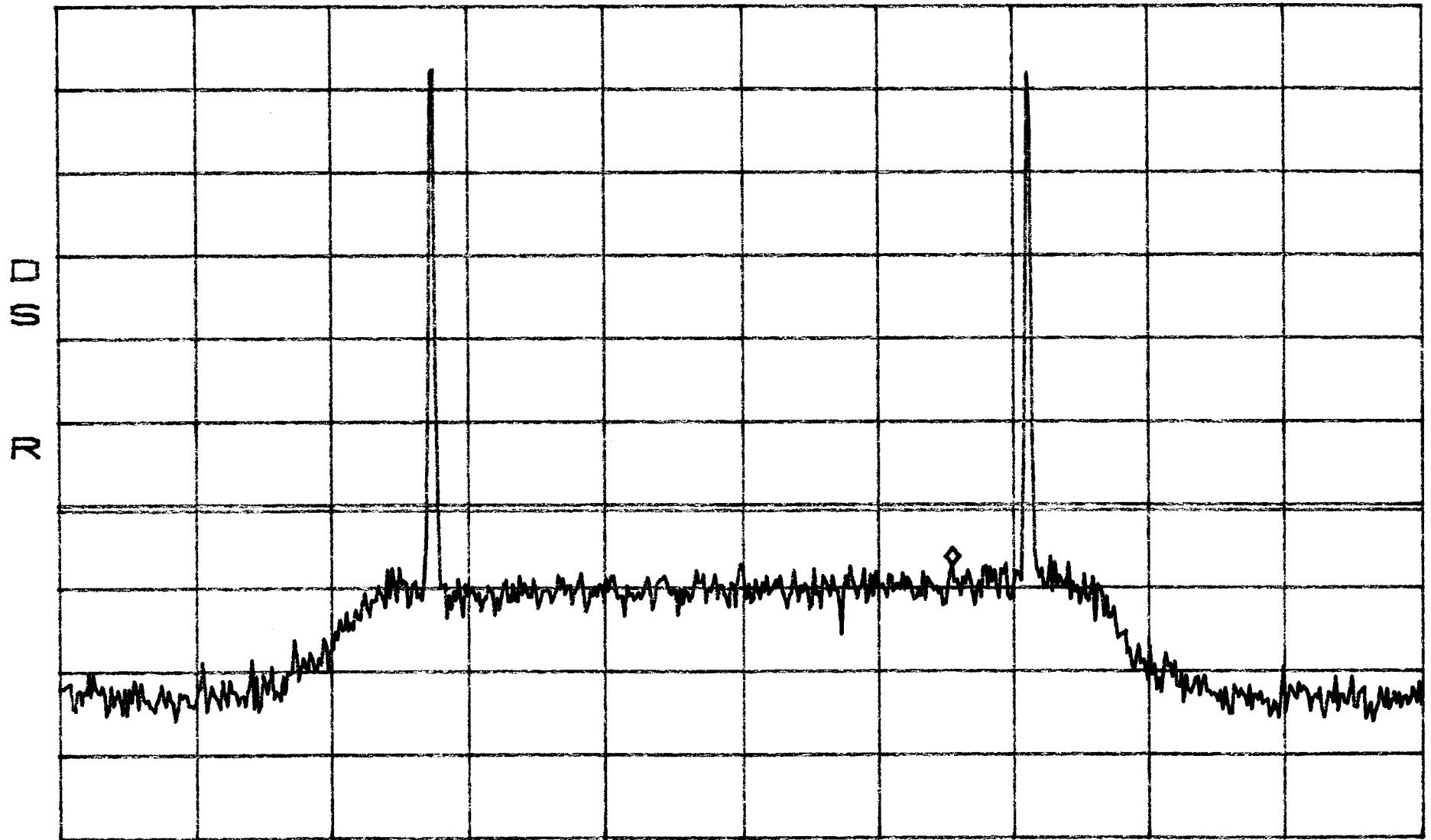
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Intermodulation BAND B,E,F
Apert
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -19.37dBm
1.97025GHz



CENTER 1.96250GHz
*RBW 30kHz VBW 30kHz

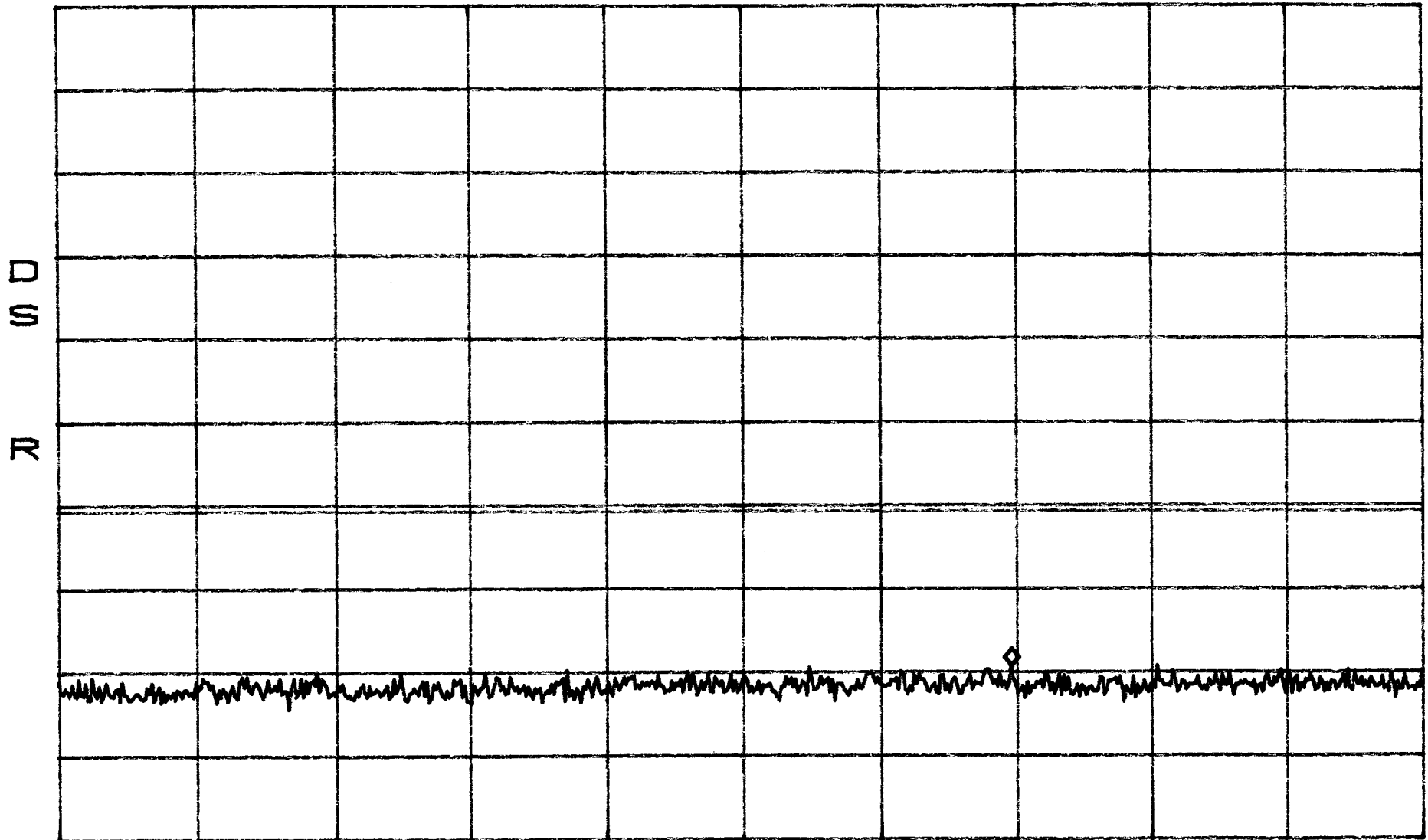
SPAN 50.00MHz
SWP 140ms

Intermodulation BAND B,E,F
Apart
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.37dBm
705.8MHz



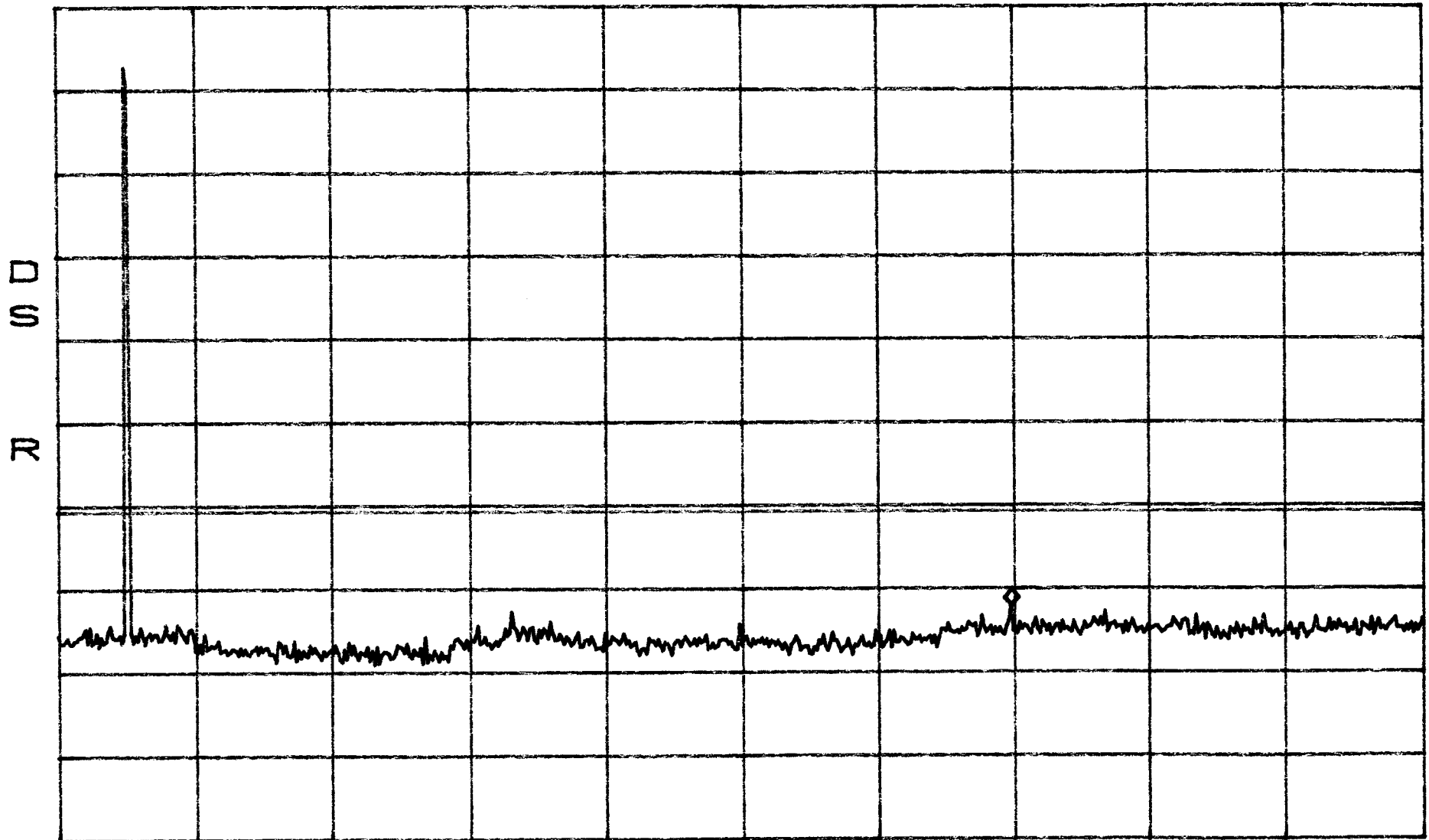
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND B,E,F
Apart
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.20dBm
14.27GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

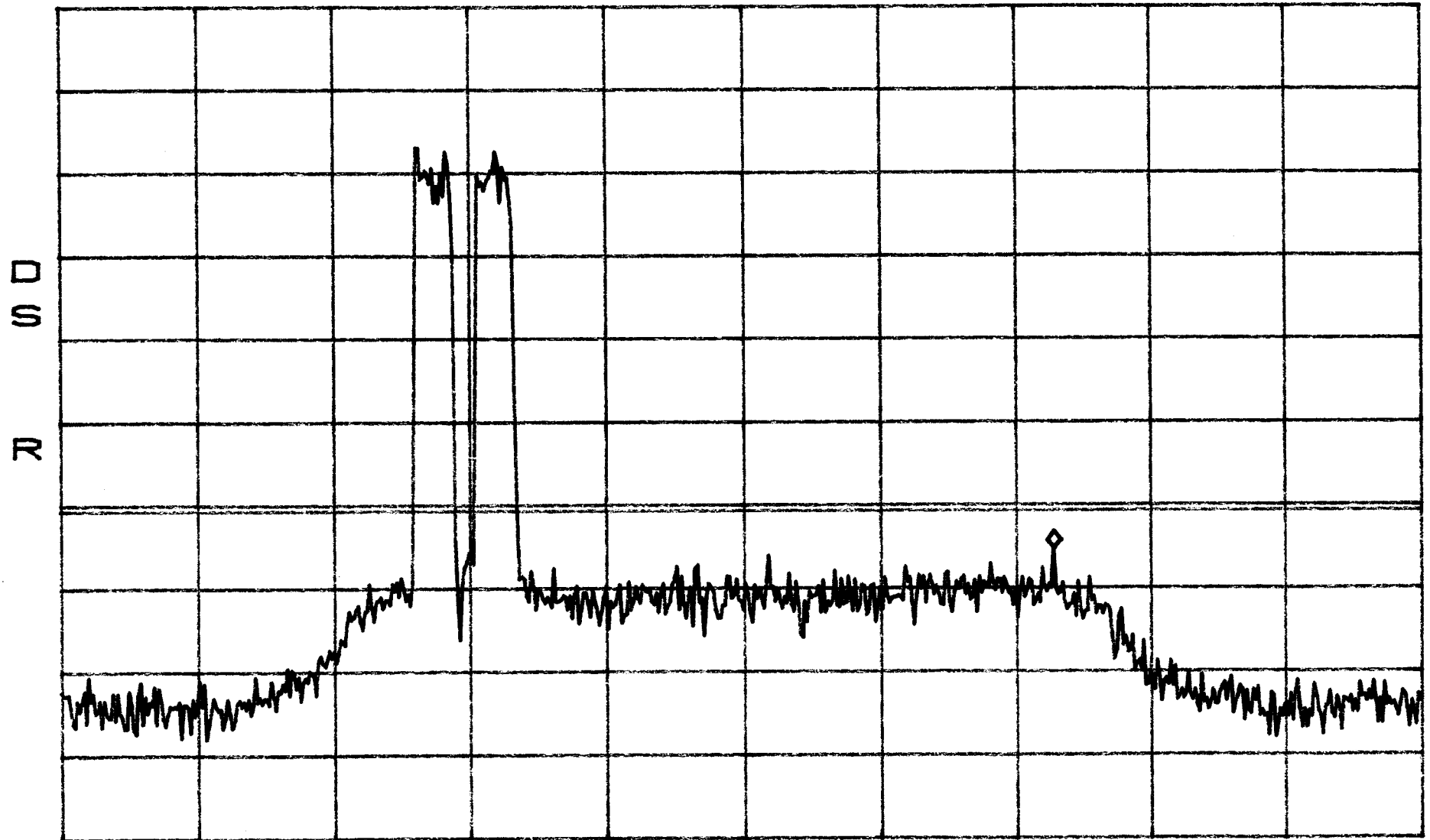
Intermodulation
Close
CDMA

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -17.37dBm
1.97392GHz



CENTER 1.96250GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

Intermodulation
Close
CDMA

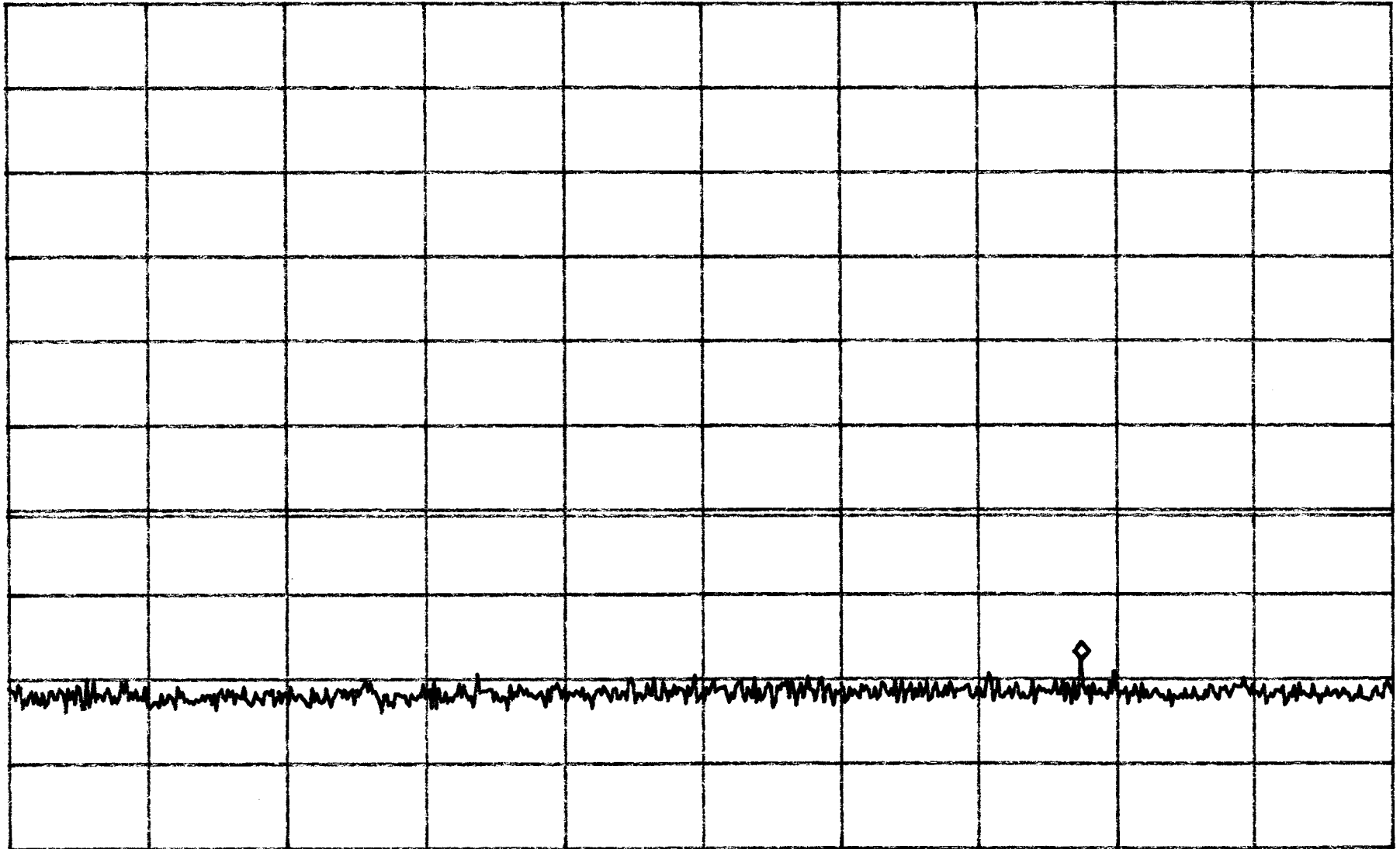
BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -29.87dBm
781.8MHz

S
D
R



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

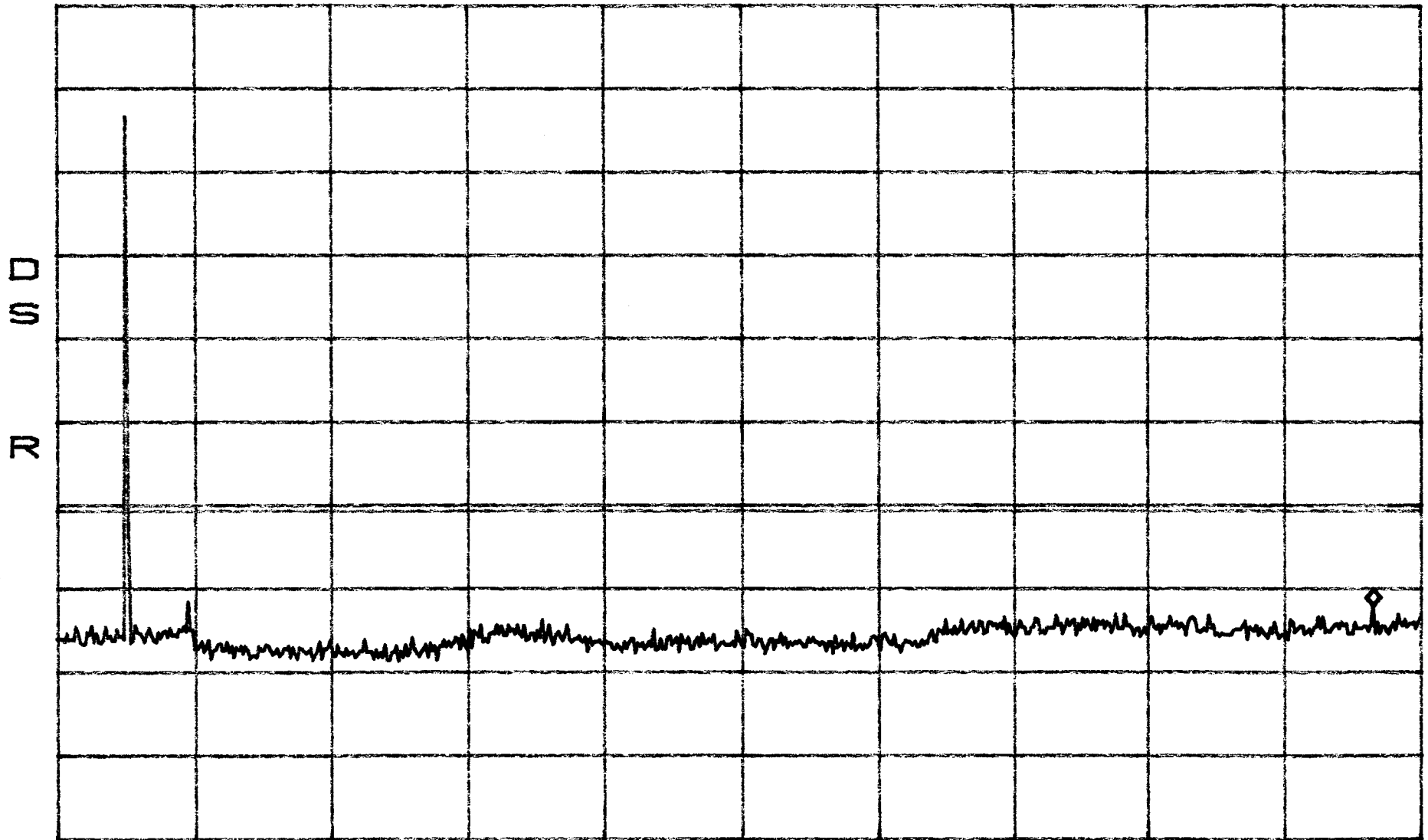
Intermodulation
Close
CDMA

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.20dBm
19.34GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

SWP 4.8sec

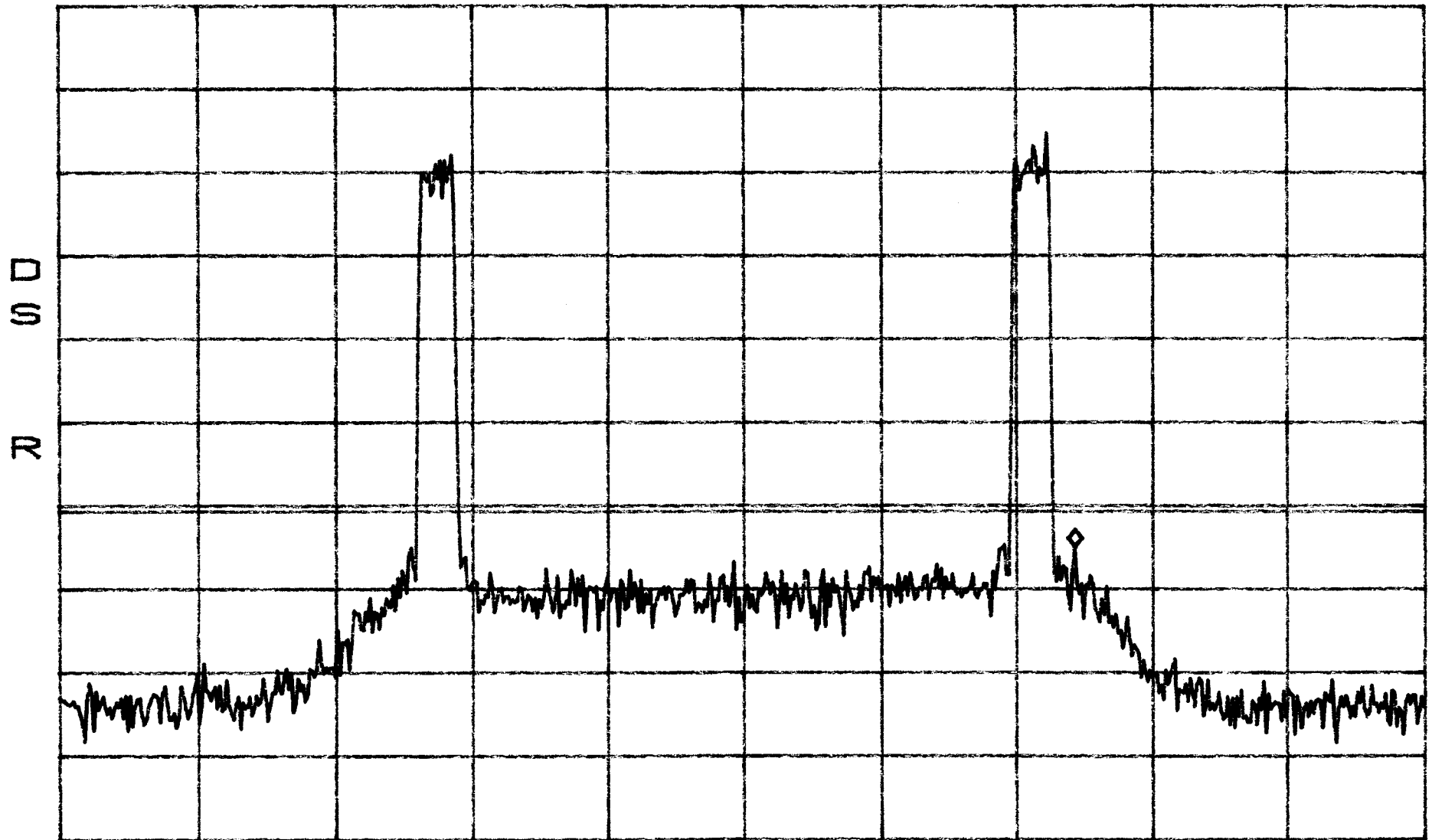
Intermodulation
Apert
CDMA

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -17.03dBm
1.97467GHz



CENTER 1.96250GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

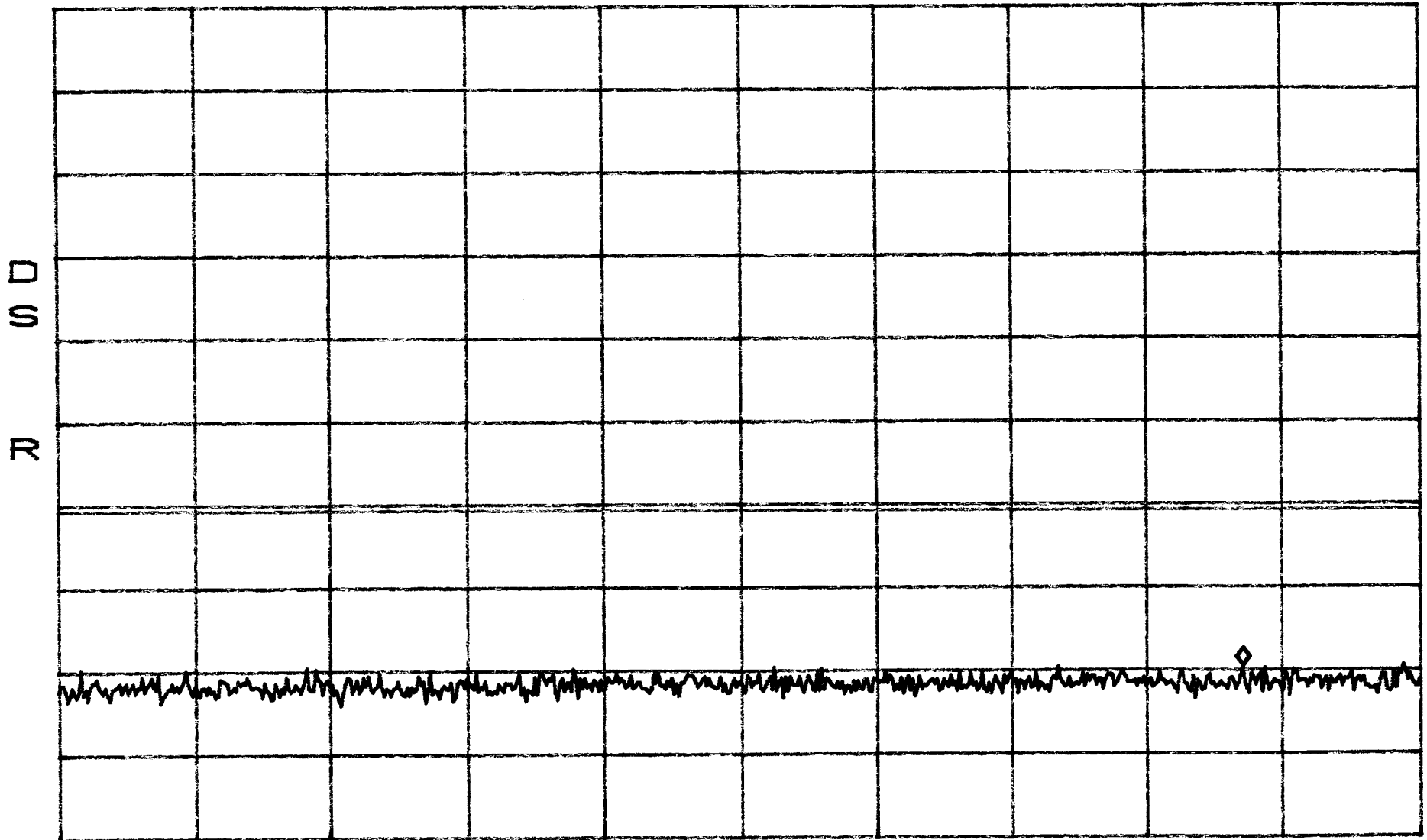
Intermodulation
Apert
CDMA

BAND B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.53dBm
875.5MHz



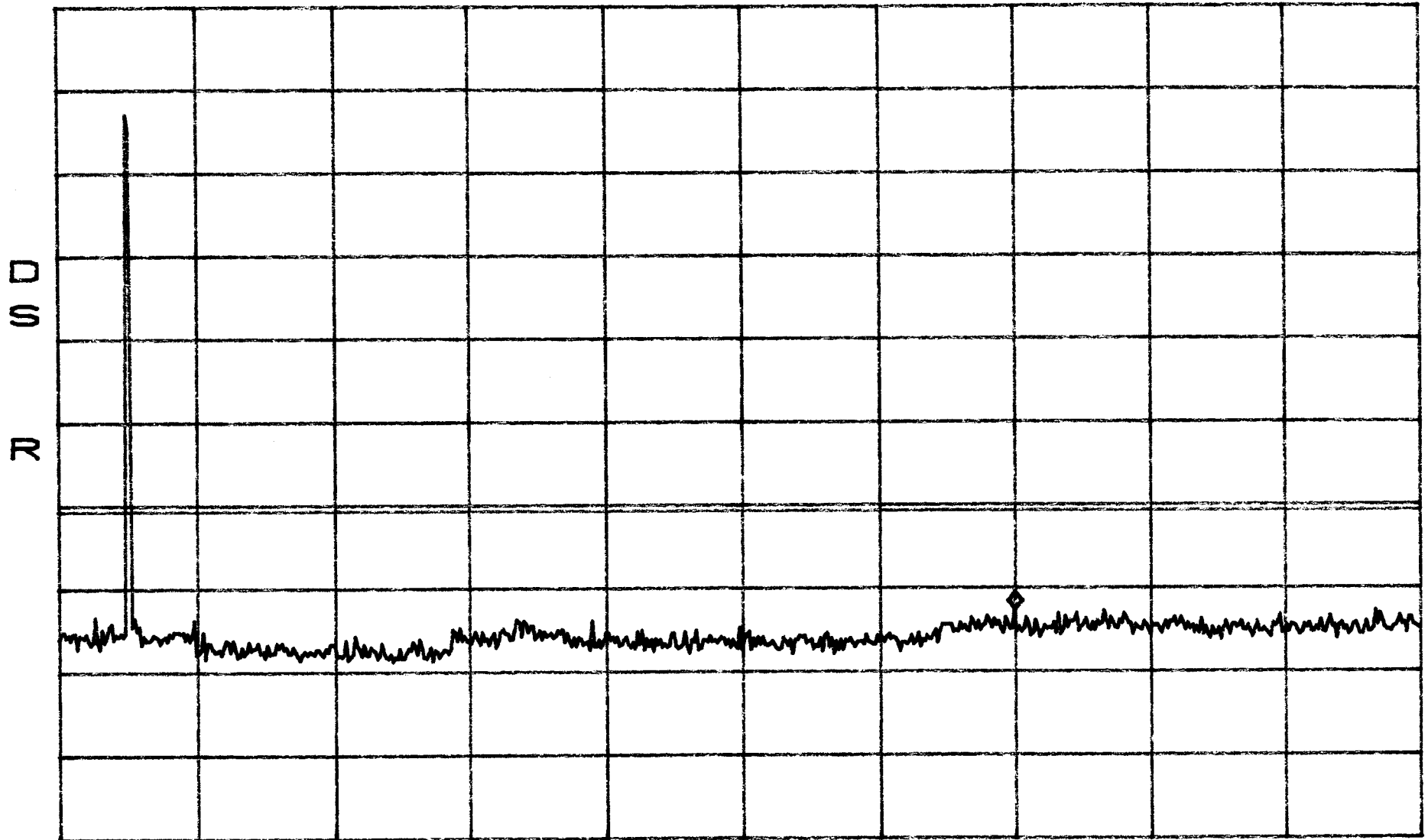
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND B,E,F
Apart
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
14.30GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Intermodulation

BAND E,F,L

Close

FM

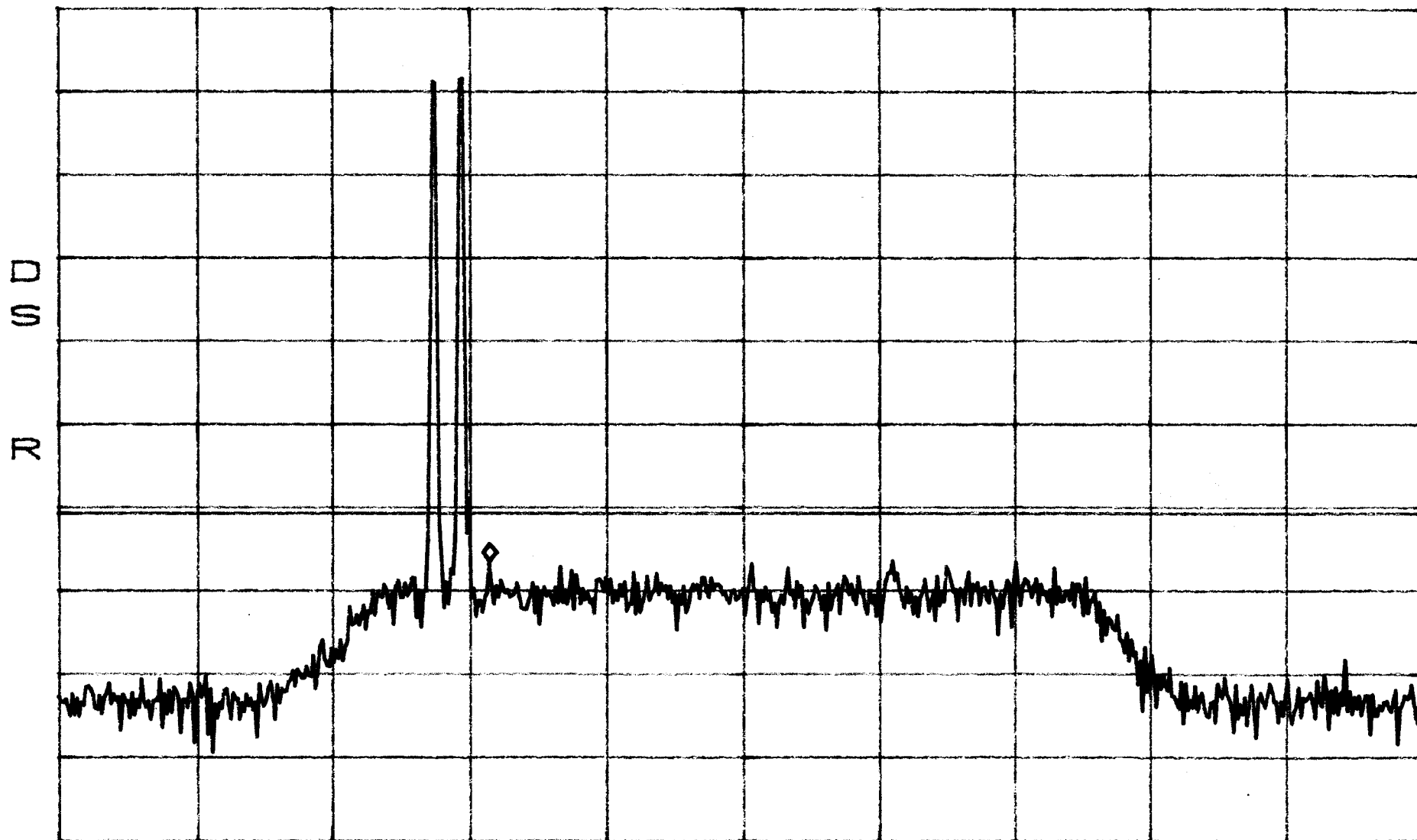
*ATTEN 20dB

MKR -18.53dBm

RL 47.8dBm

10dB/

1.96825GHz



CENTER 1.97750GHz

SPAN 50.00MHz

*RBW 30kHz

VBW 30kHz

SWP 140ms

Intermodulation

BAND E,F,C

Close

FM

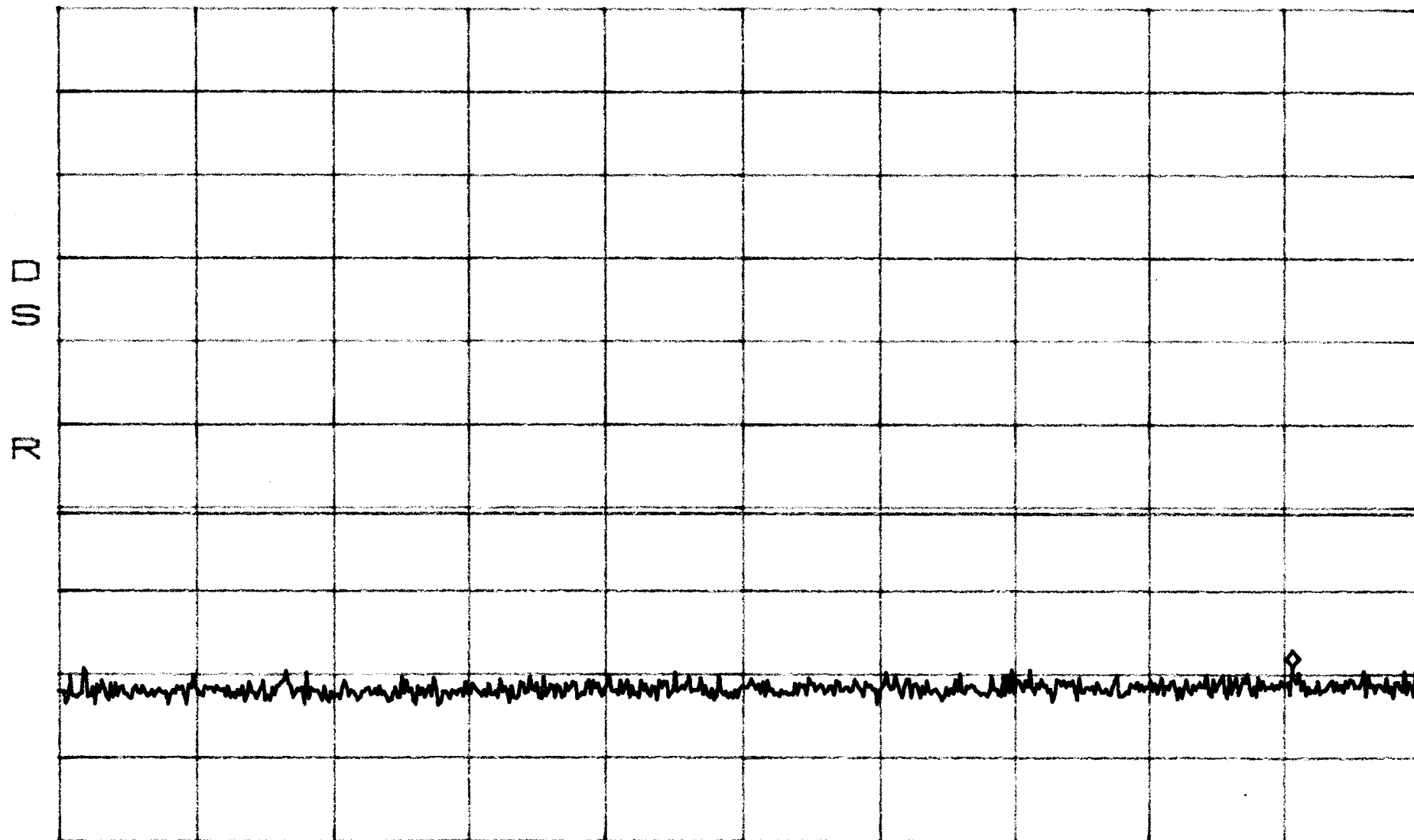
*ATTEN 20dB

MKR -31.20dBm

RL 47.8dBm

10dB/

909.5MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

Intermodulation

BAND E,F,C

Close

FM

*ATTEN 20dB

MKR -24.70dBm

RL 47.8dBm

10dB/

18.73GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

SWP 4.8sec

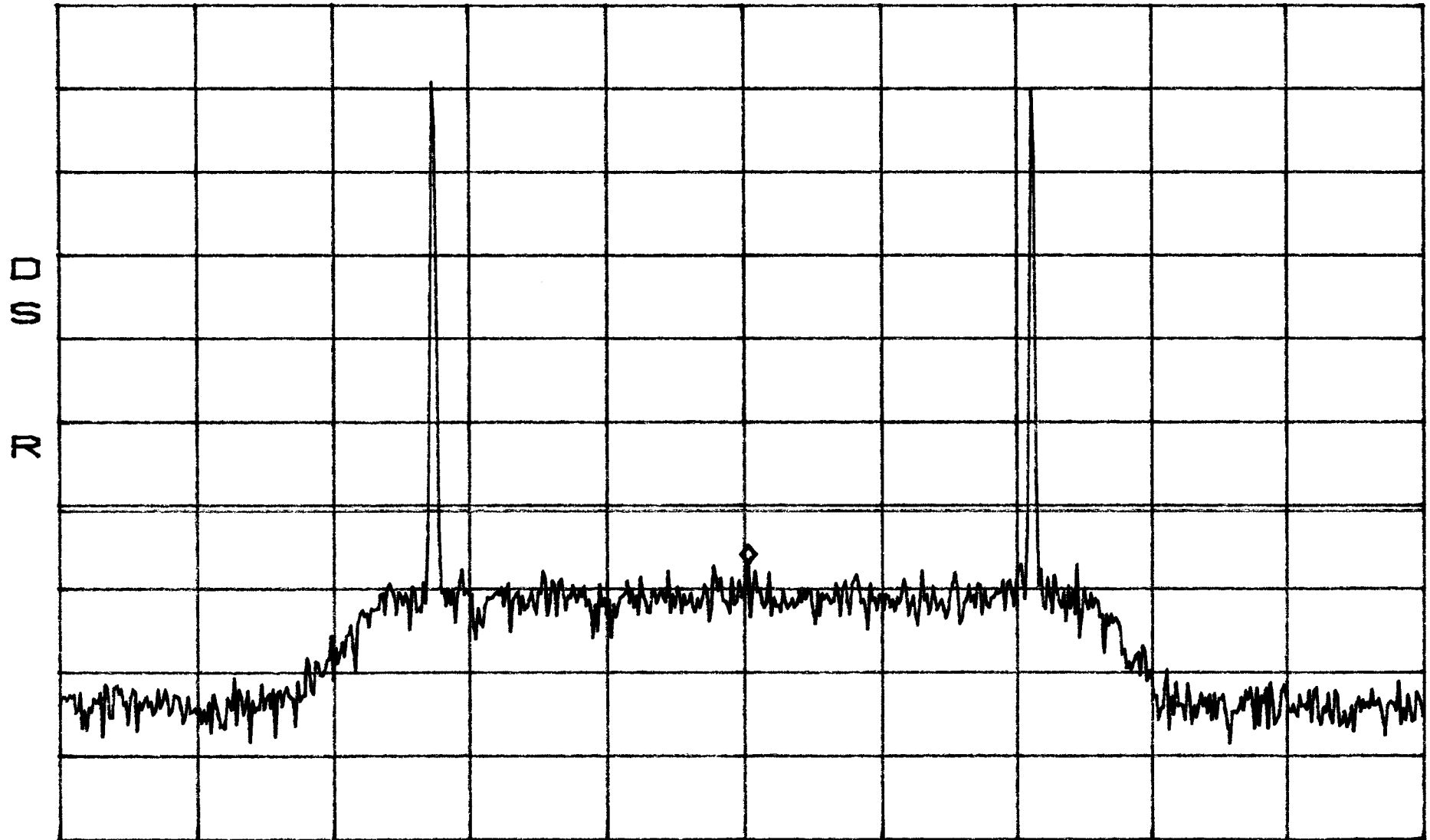
Intermodulation
Apert
FM

BAND E,F,<

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -19.03dBm
1.97767GHz



CENTER 1.97750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

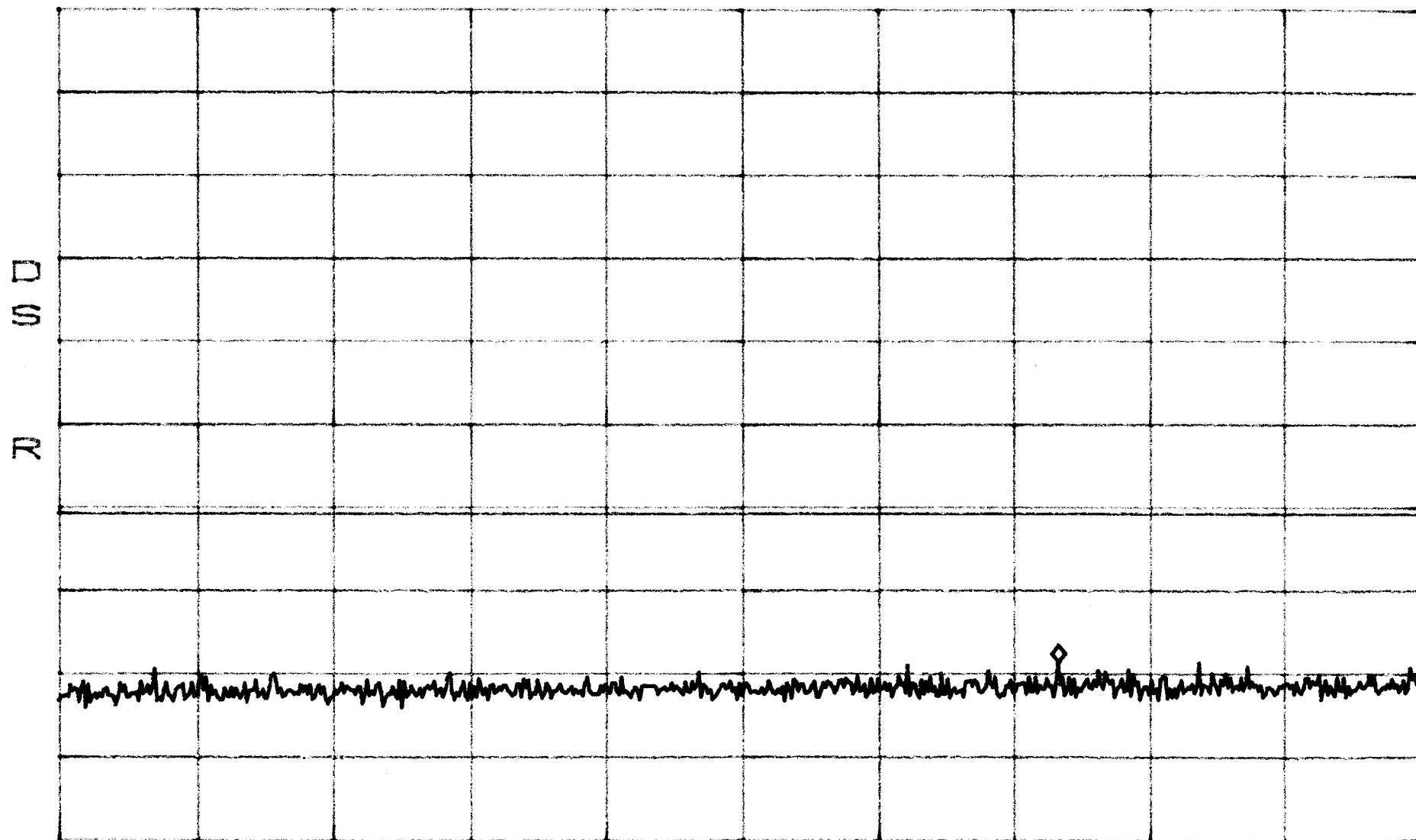
Intermodulation
Apert
FM

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.70dBm
741.3MHz



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

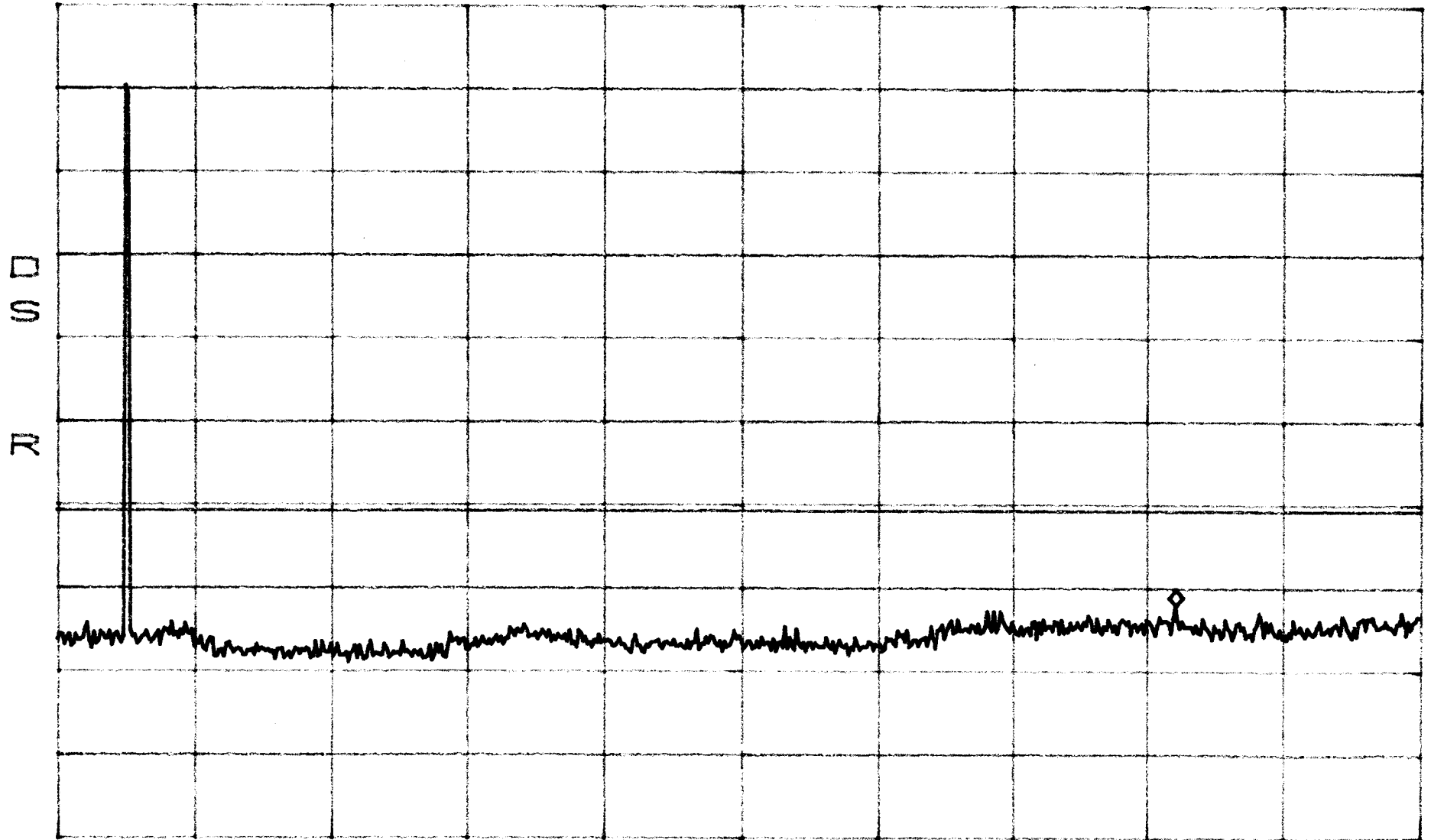
Intermodulation
Apert
FM

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.20dBm
16.61GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

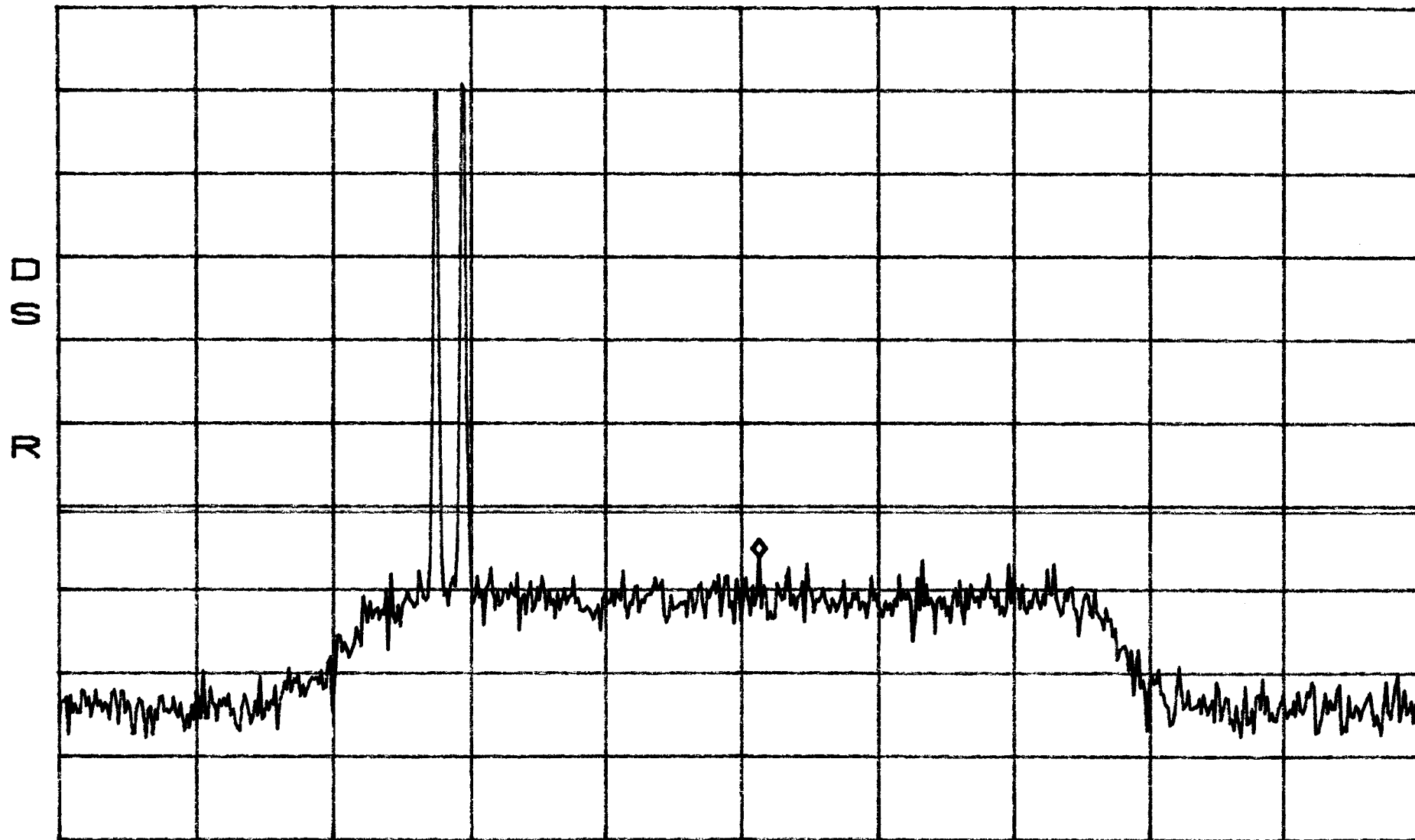
Intermodulation
Close
TDMA

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -18.20dBm
1.97817GHz



CENTER 1.97750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

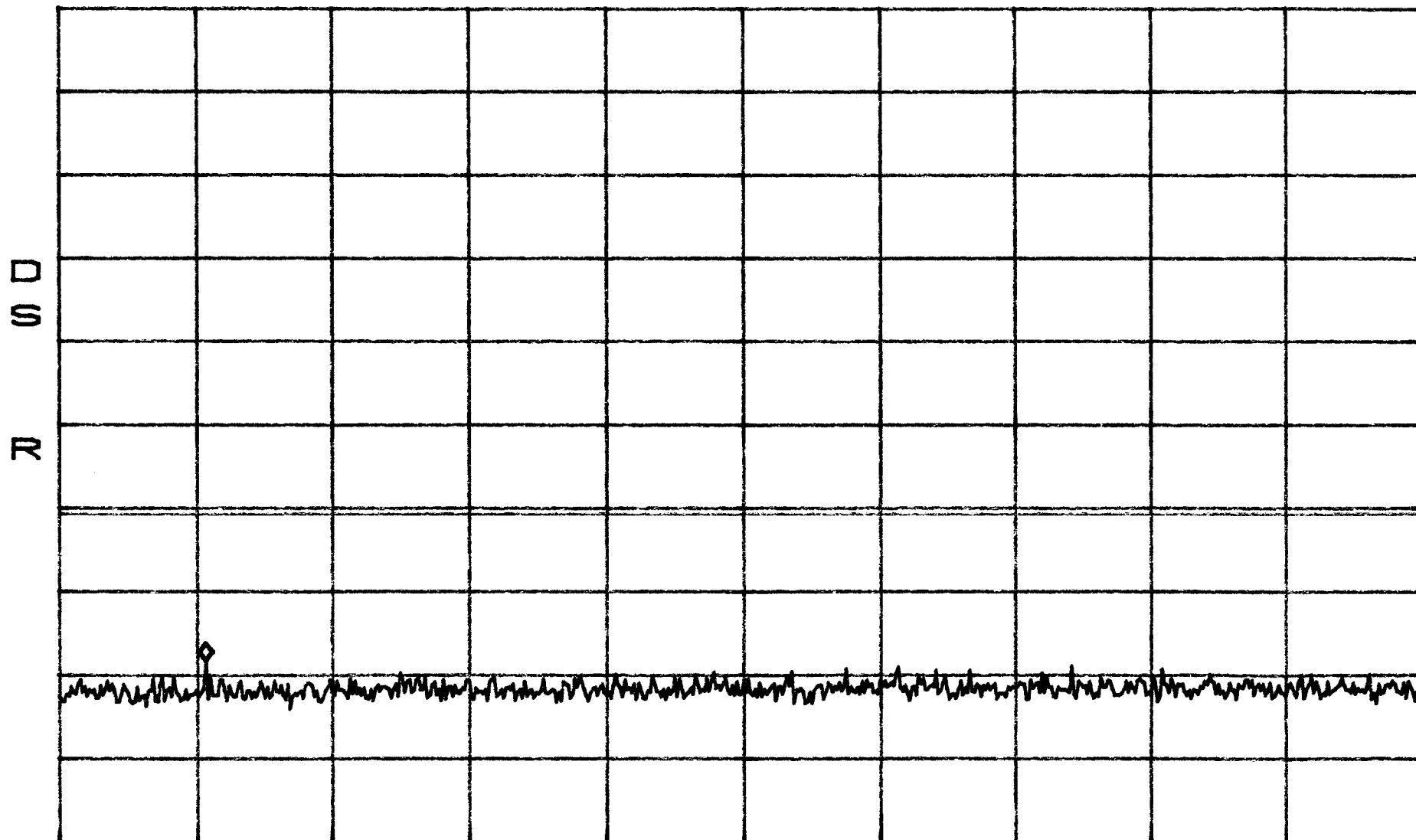
Intermodulation
Close
TDMA

BAND E,F,G

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.37dBm
133.5MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

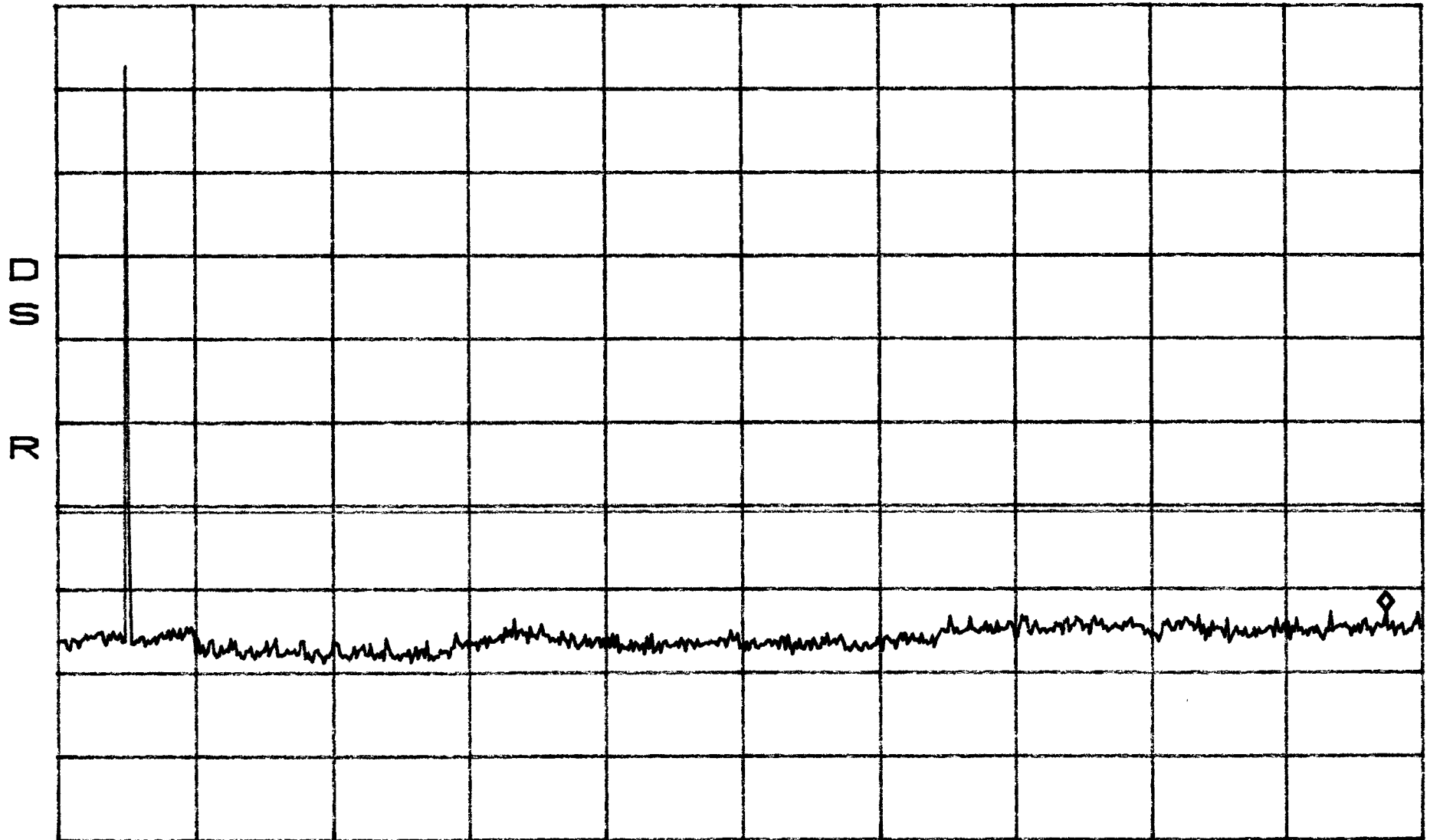
Intermodulation
Close
TDMA

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
19.49GHz



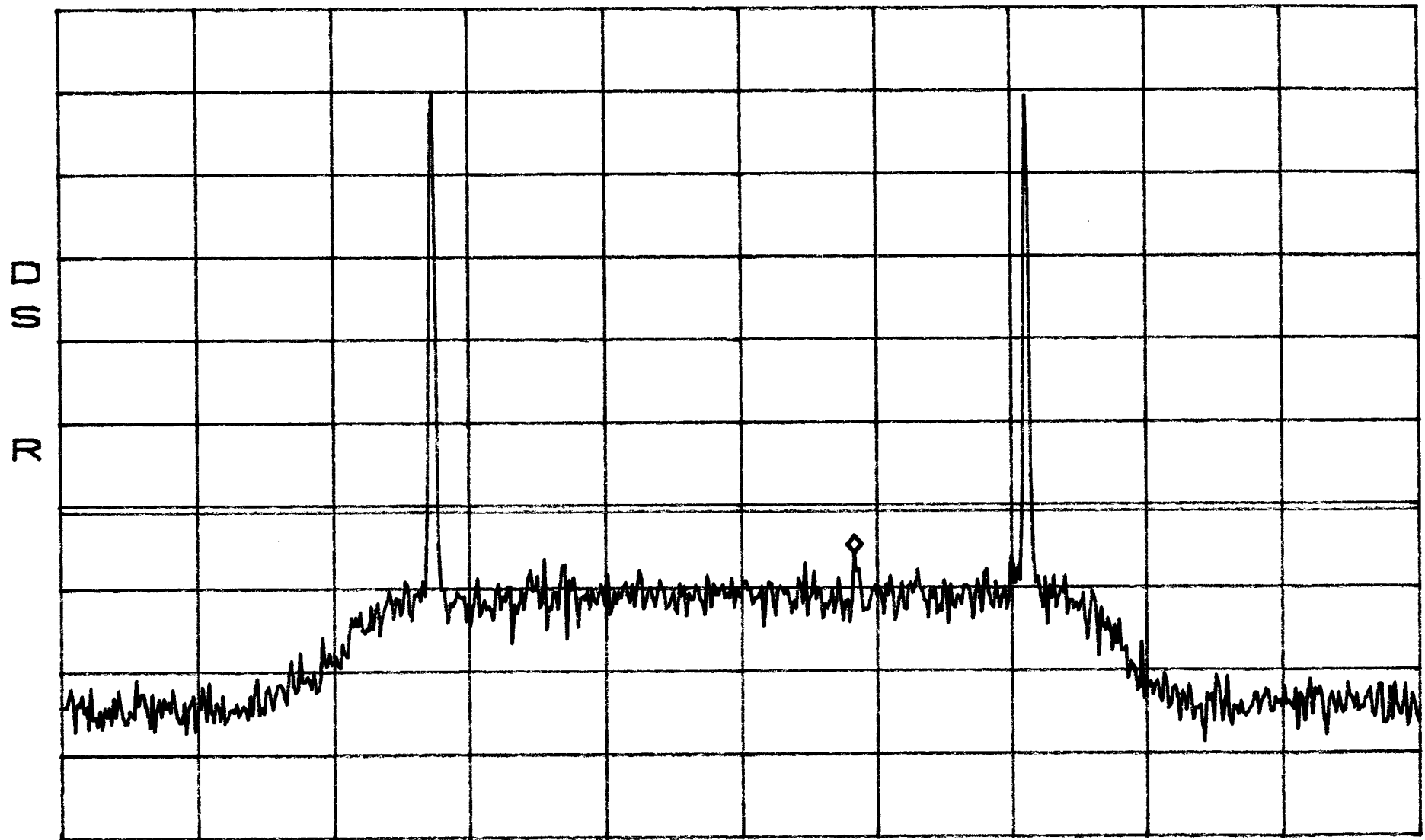
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Intermodulation BAND E,F,C
Apart
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -17.87dBm
1.98167GHz



CENTER 1.97750GHz
*RBW 30kHz VBW 30kHz

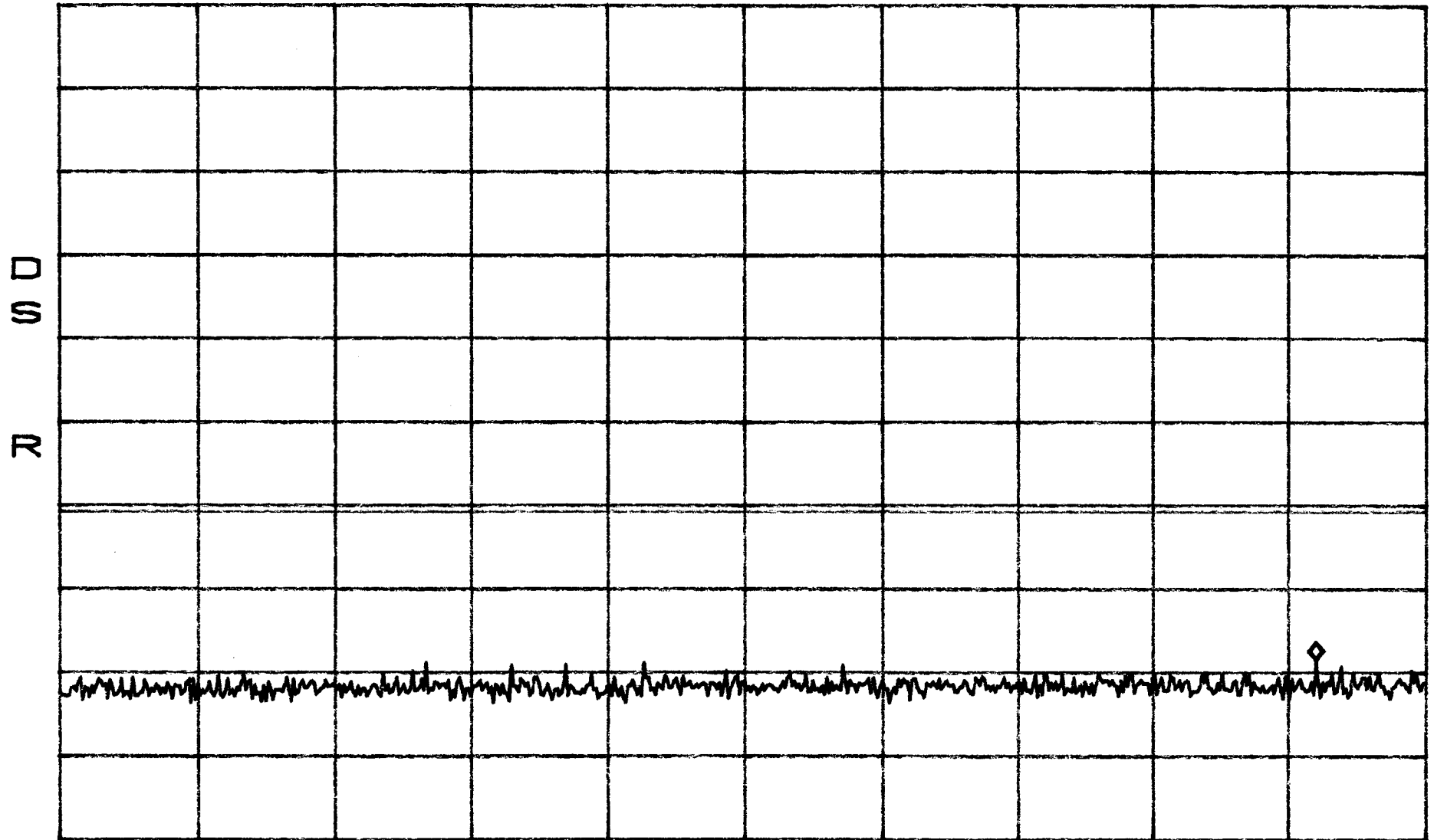
SPAN 50.00MHz
SWP 140ms

Intermodulation BAND E,F,C
Apert
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.53dBm
924.0MHz



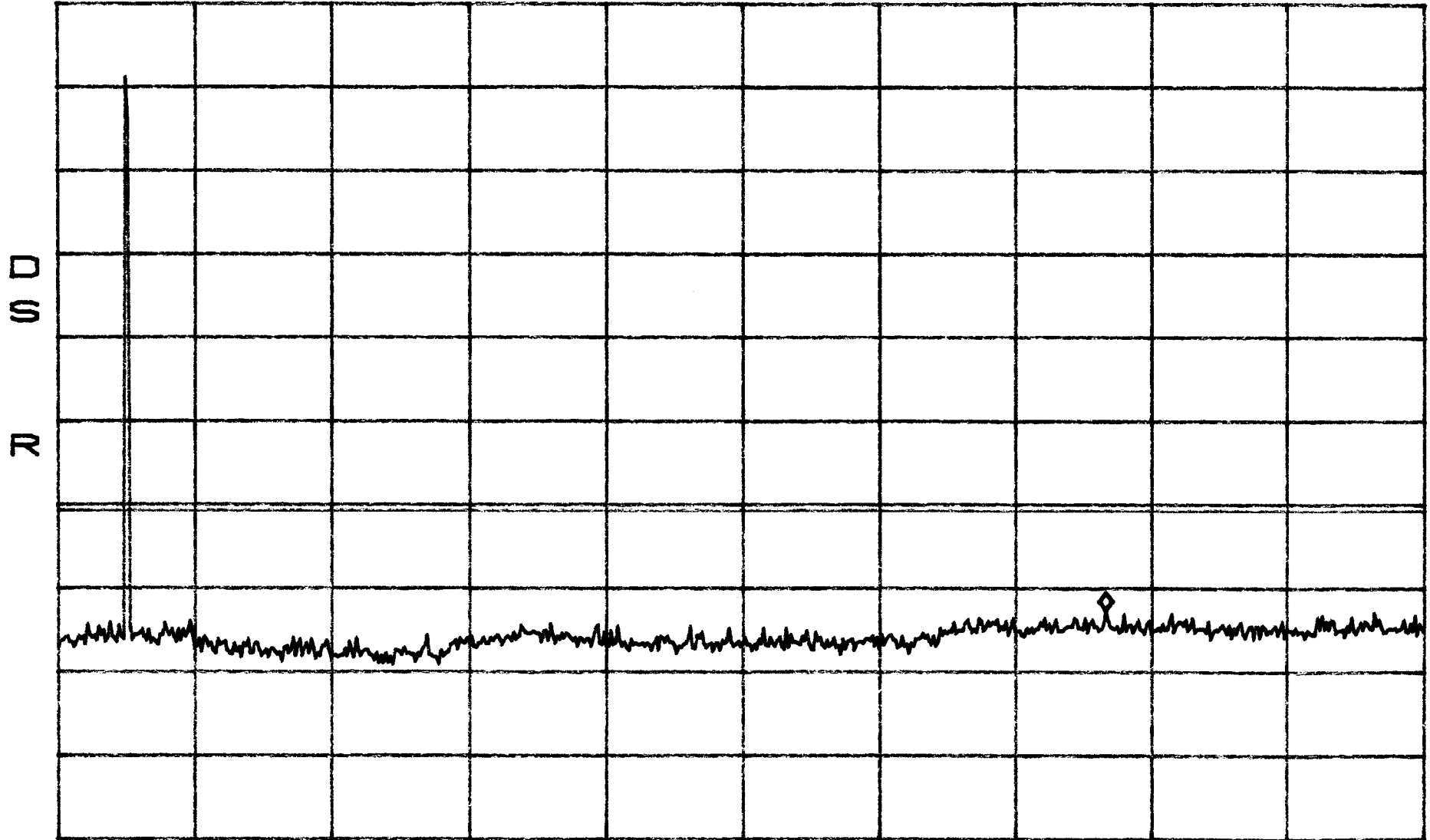
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND EFC
Apert
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
15.57GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

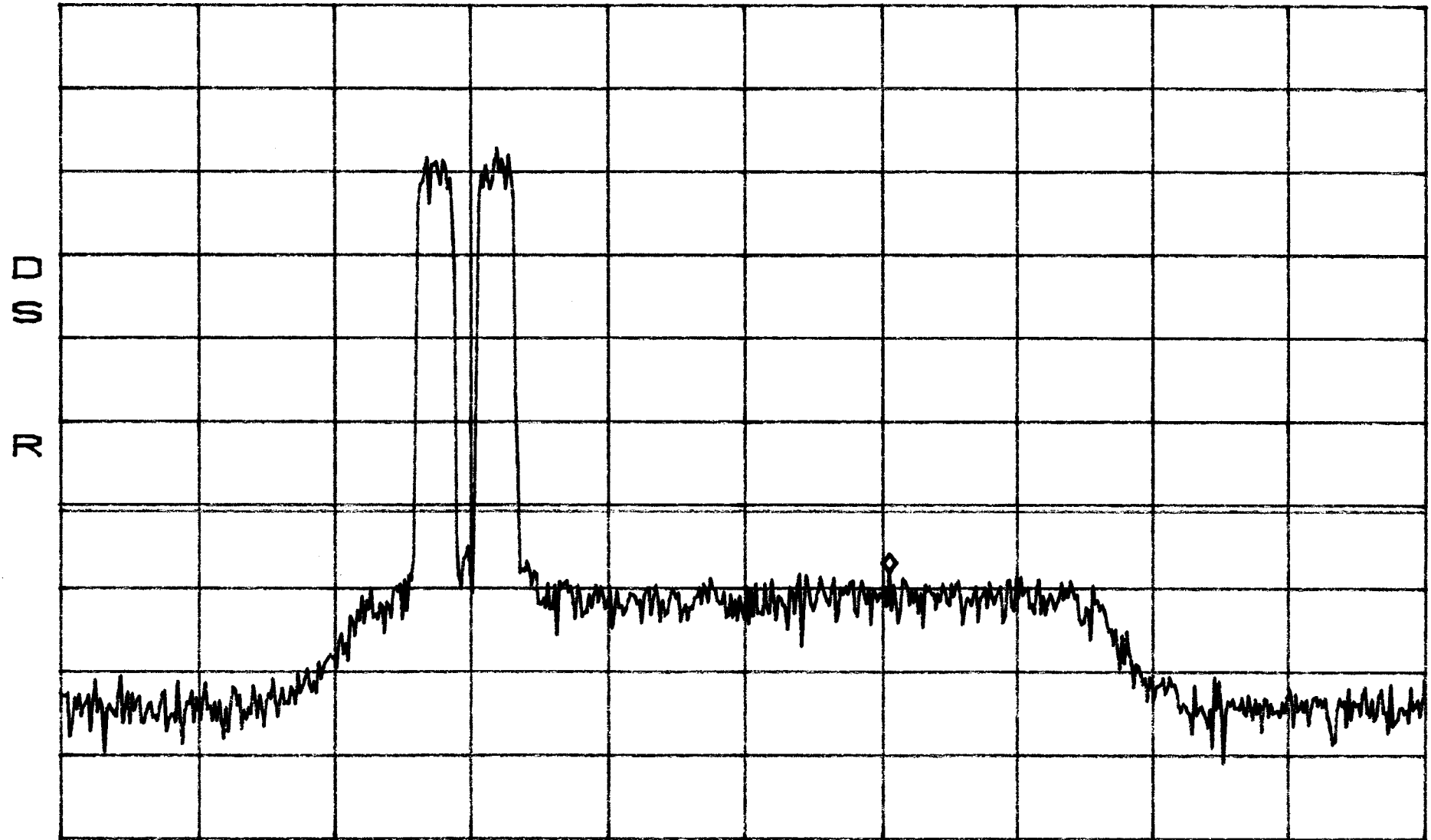
Intermodulation
Close
CDMA

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -20.03dBm
1.98275GHz



CENTER 1.97750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

Intermodulation
Close
CDMA

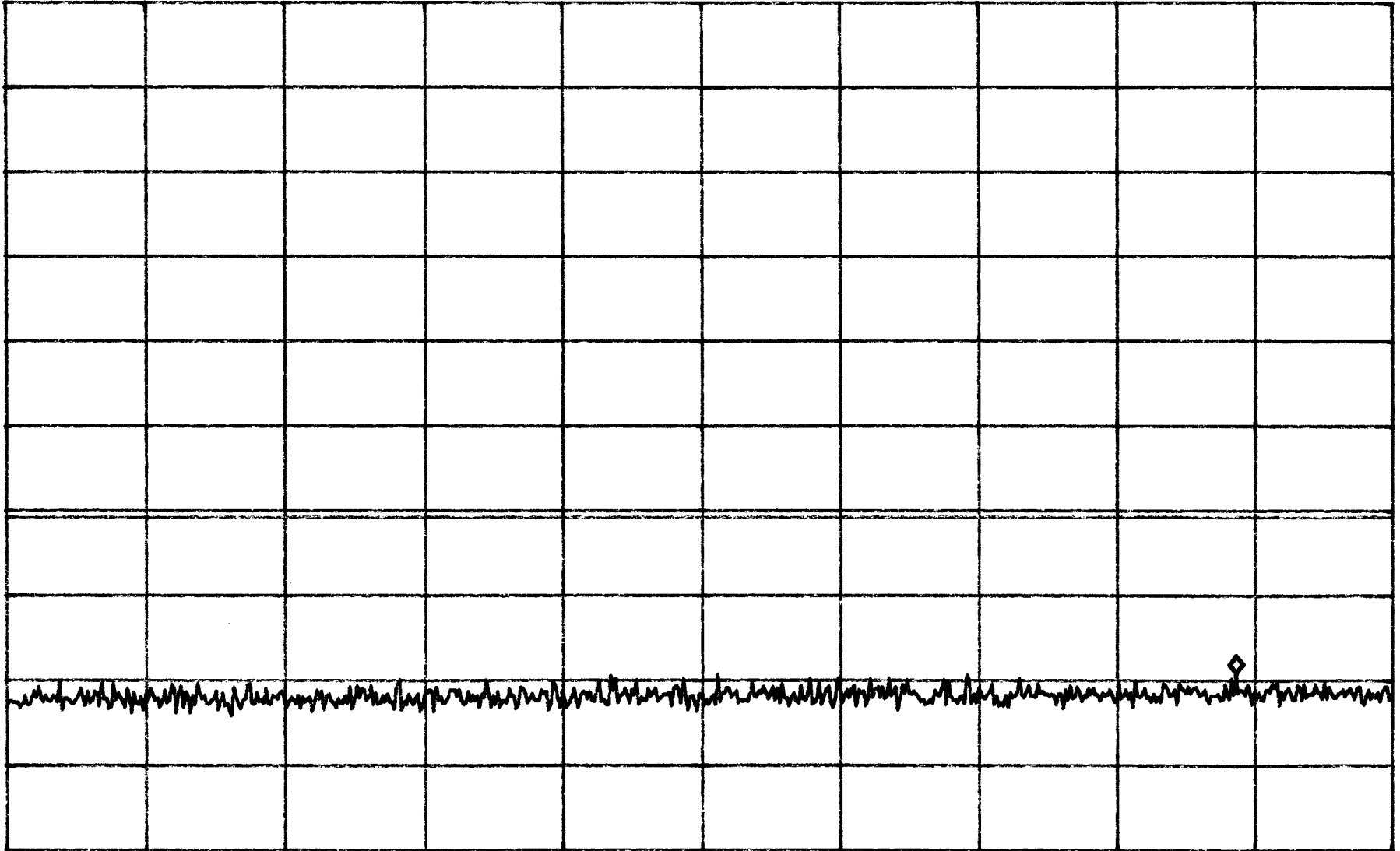
BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.20dBm
890.1MHz

SD
R



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

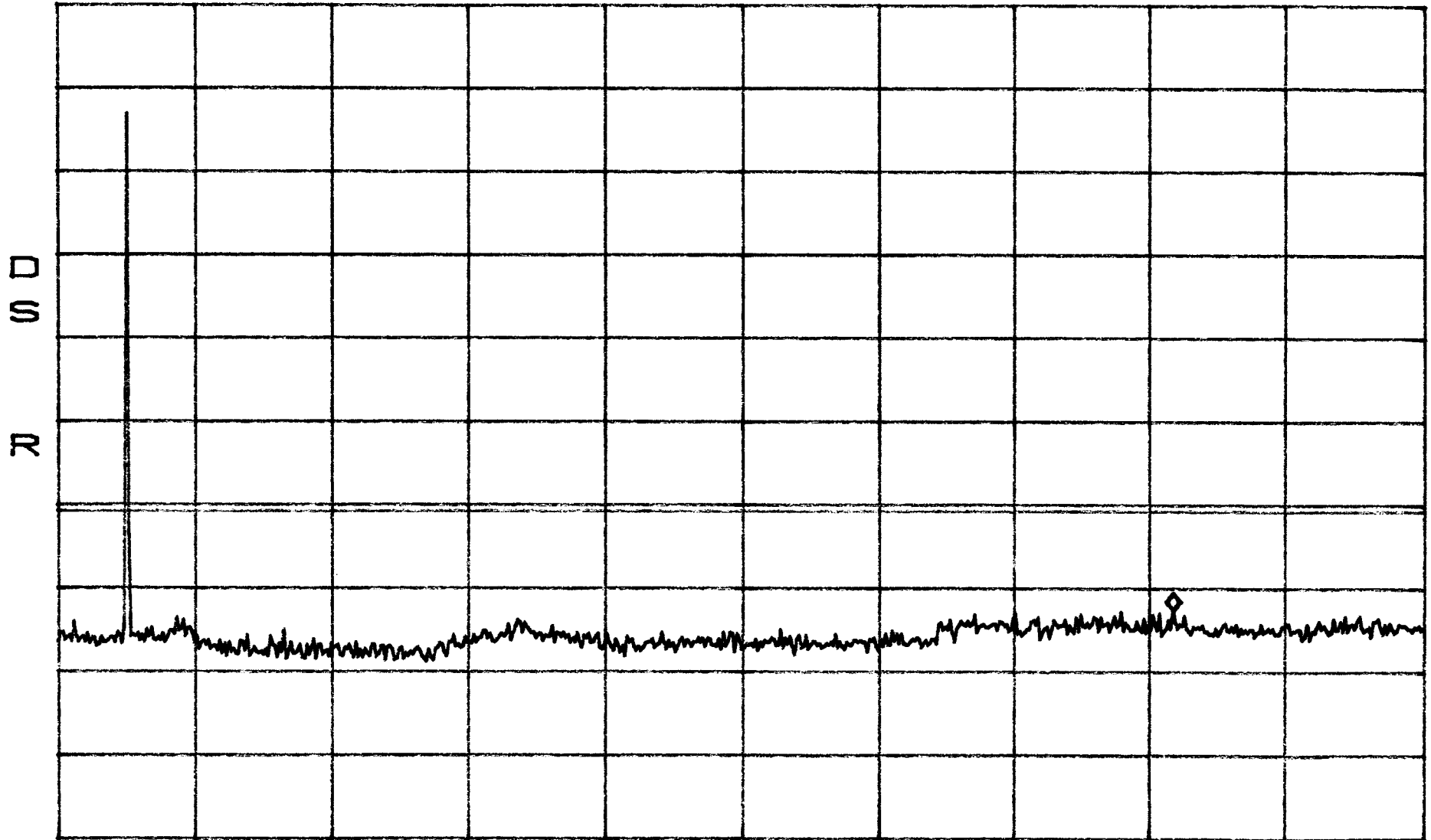
Intermodulation
Close
CDMA

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
16.55GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

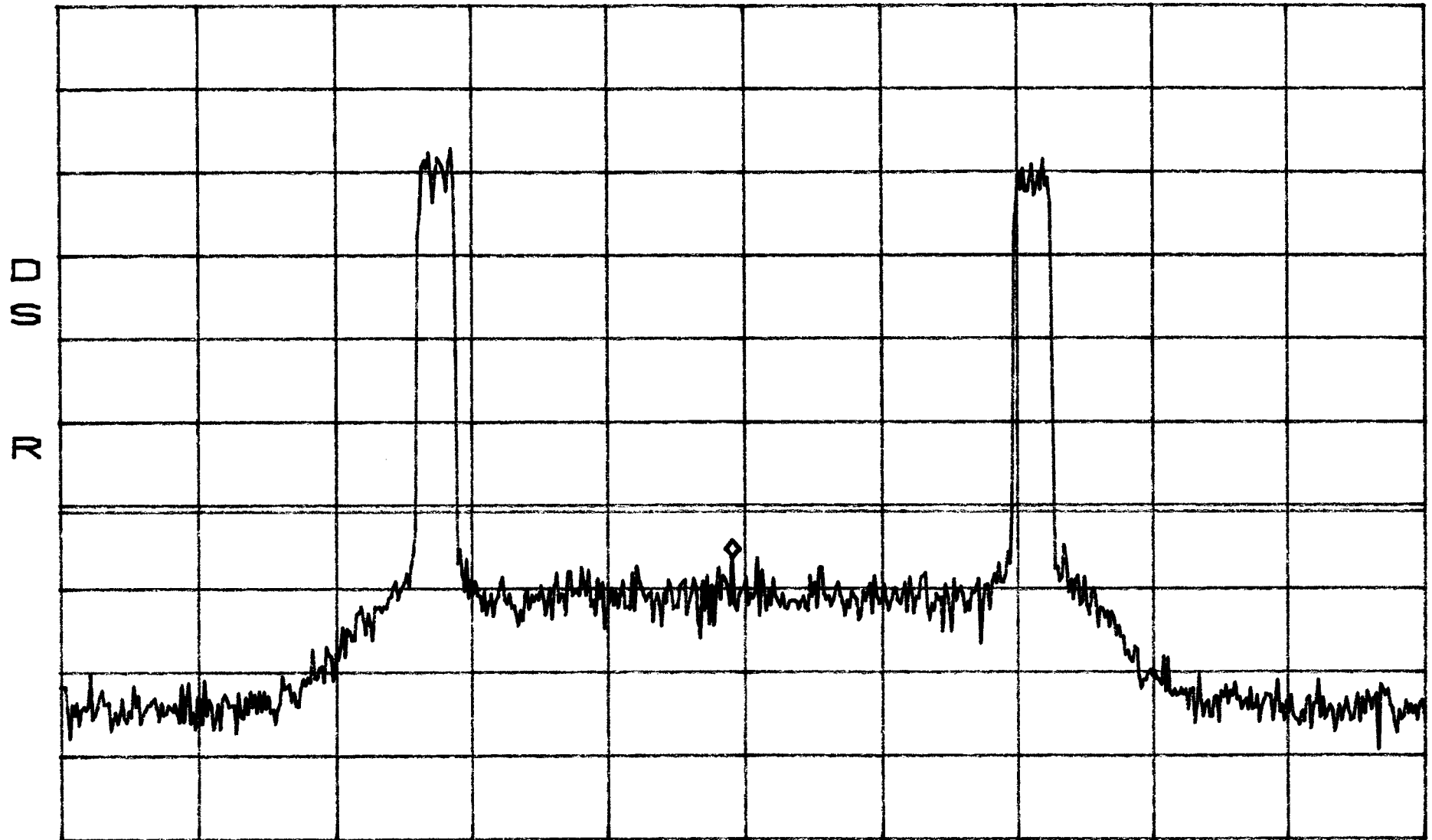
Intermodulation
Apert
CDMA

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -18.37dBm
1.97708GHz



CENTER 1.97750GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

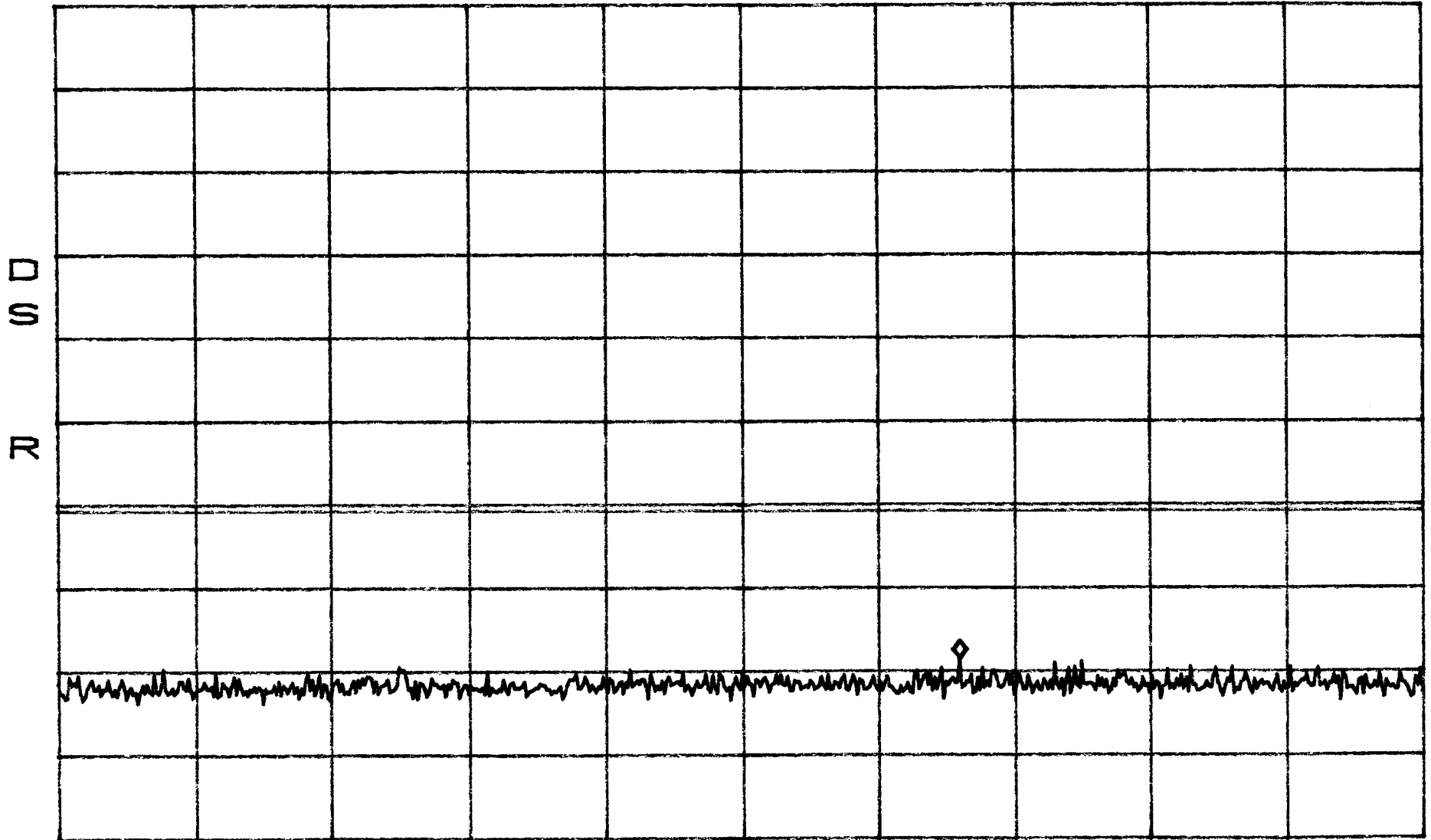
Intermodulation
Apert
CDMA

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.53dBm
670.2MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

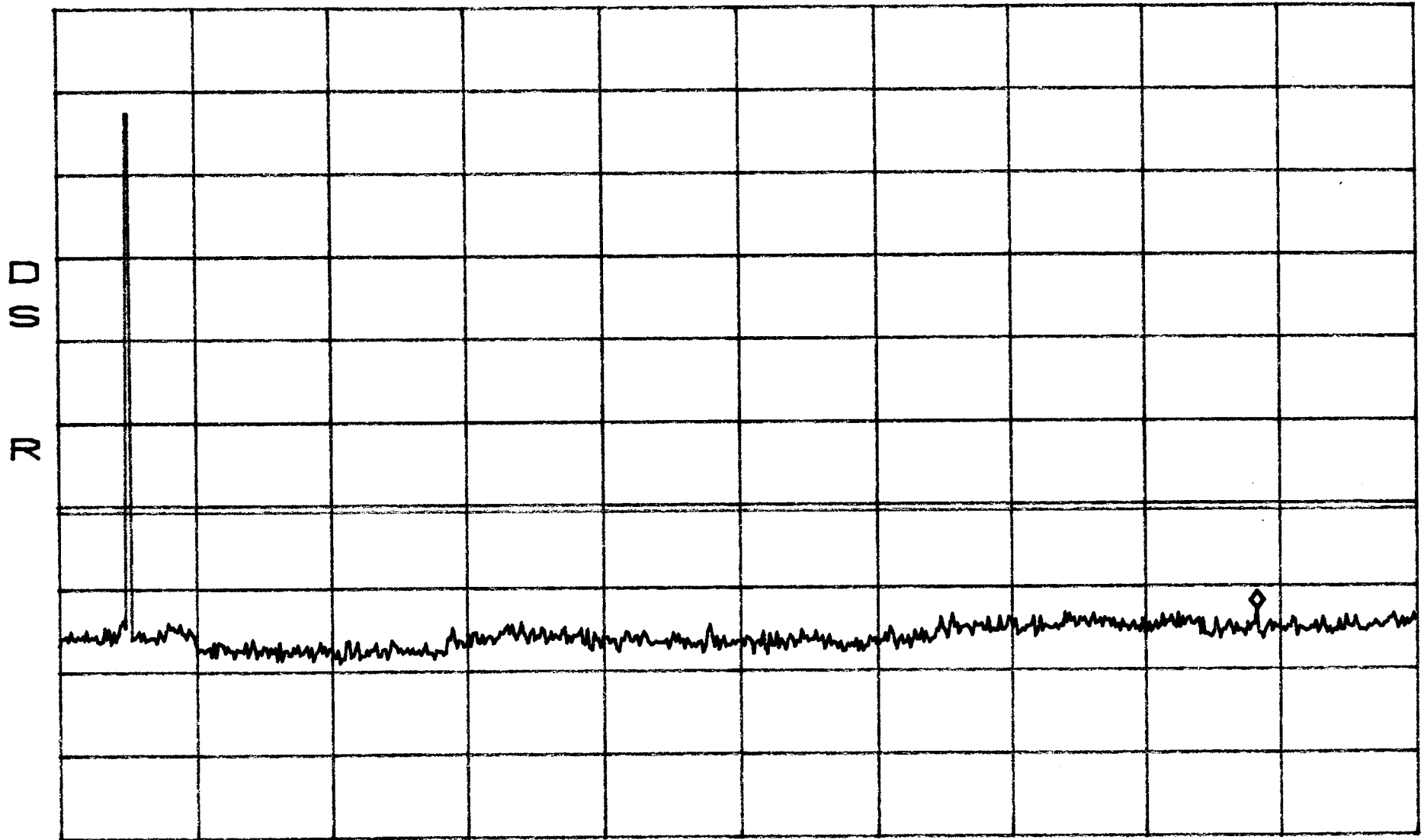
Intermodulation
Apert
CDMA

BAND E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.87dBm
17.78GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

CDMA Mask Test for ADC Inc.
Digivance Long Range Coverage System
Model Numbers DGVL-431110SYS, DGVL-441110SYS,
DGVL-451110SYS, and DGVL-461110SYS.

For the CDMA modulation type emission mask test, the average value of the center frequency will be 16.23dB down from the CW peak power. On any frequency removed from the center carrier frequency by up to 750 kHz the emissions are at or below 16.23dB below the peak power. On any frequency between 750 kHz and 1.98 MHz the emissions are below 45dB below the peak power. On any frequency removed from the carrier frequency by more than 1.98 MHz the emissions are below 60dB below the peak power. The test was performed at the middle part of the respective A, B, C, D, E, and F PCS bands.

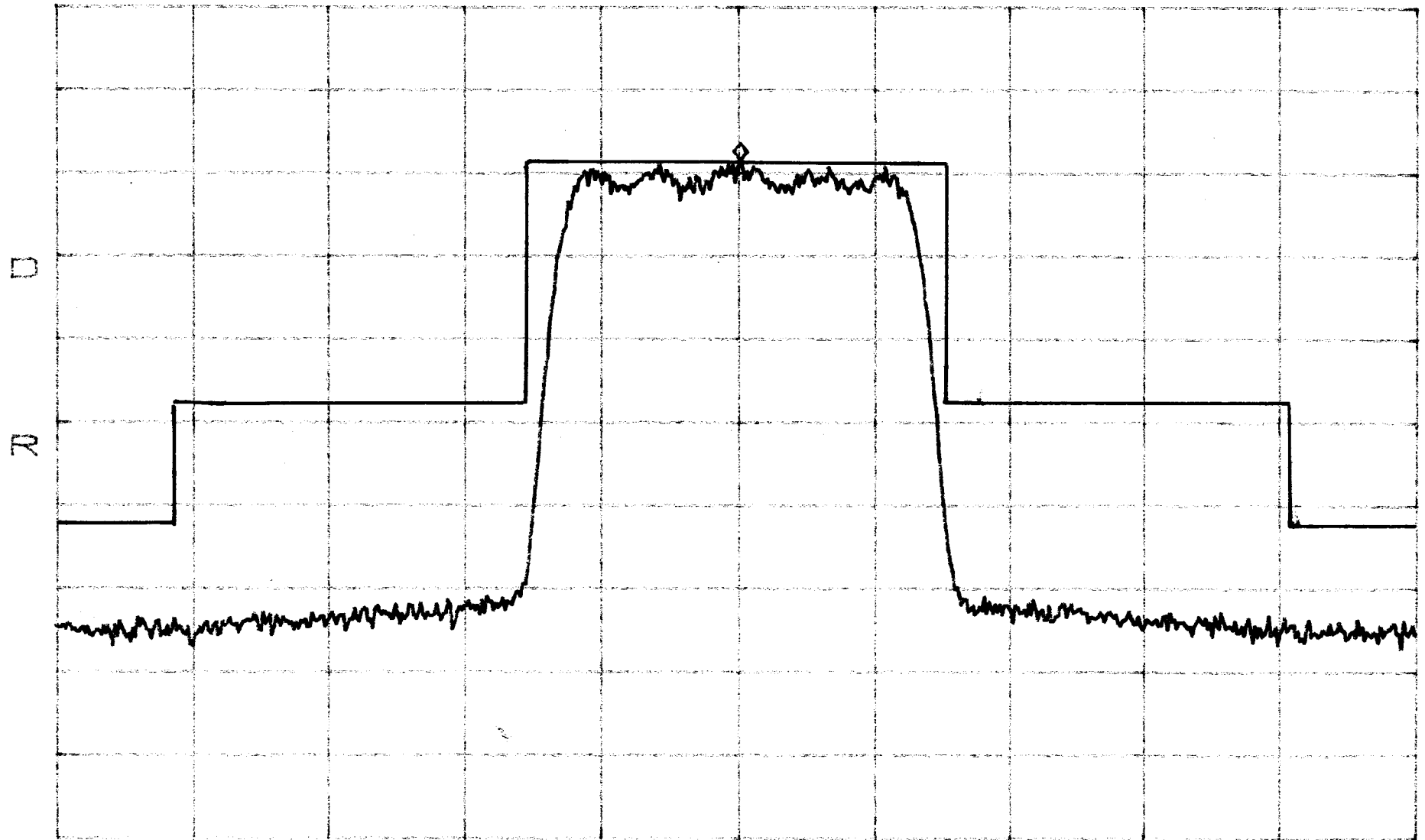
Results:

Pass (see plots)

CDMA MASK
Mid

BAND A

*ATTN 20dB VAVG 100 MKR 29.47dBm
RL 47.8dBm 10dB/BPO 1.937508GHz



CENTER 1.937500GHz

SPAN 5.000MHz

RBW 30kHz

VBW 30kHz

SWP 50ms

CDMA MASK
Mid

BAND B

*ATTEN 20dB VAVG 100 MKR 25.63dBm
RL 47.8dBm 10dB/ 1.957500GHz



CENTER 1.957500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK BAND C
Mid

*ATTN 20dB VAVG 100 MKR 24.30dBm
RL 47.8dBm 10dB/BPO 1.982500GHz



CENTER 1.982500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK

BAND D

Mid

*ATTEN 20dB

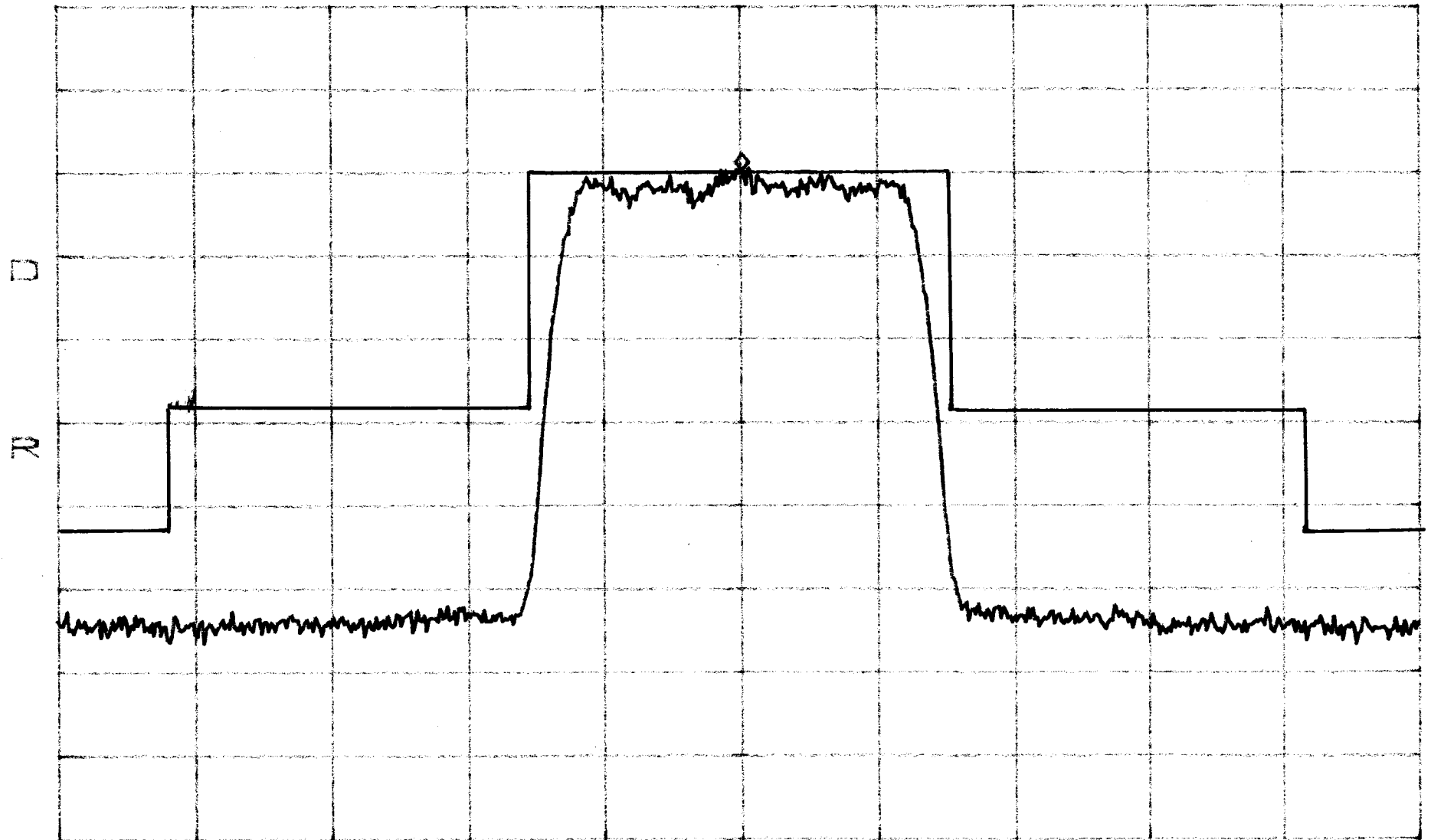
VAVG 100

MKR 28.13dBm

RL 47.8dBm

10dB/

1.947508GHz



CENTER 1.947500GHz

SPAN 5.000MHz

RBW 30kHz

VBW 30kHz

SWP 50ms

CDMA MASK
Mid

BAND E

*ATTEN 20dB VAVG 100 MKR 25.13dBm
RL 47.8dBm 10dB/ 1.967500GHz

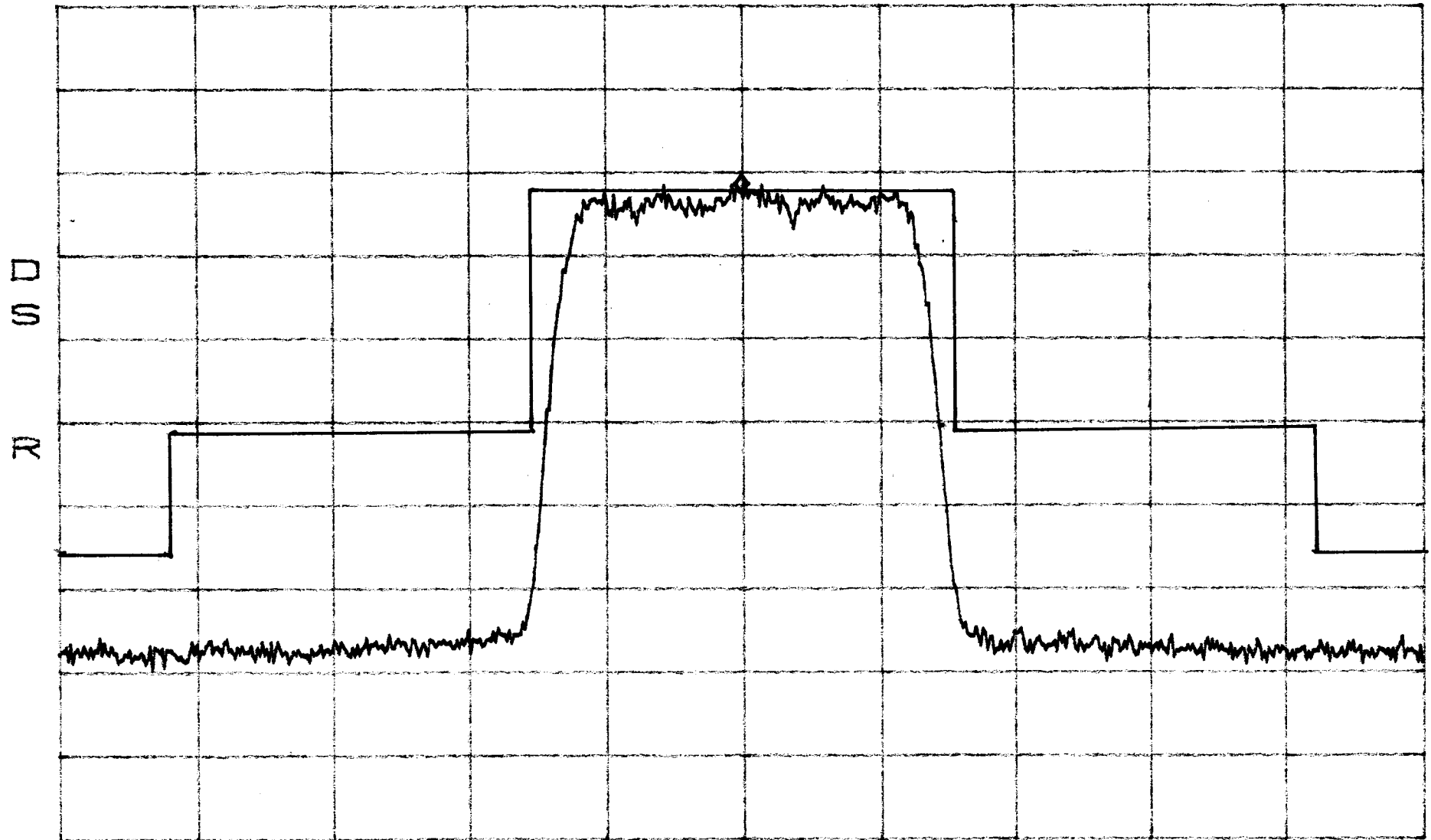


CENTER 1.967500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK
Mid

BAND F

*ATTEN 20dB VAVG 100 MKR 25.47dBm
RL 47.8dBm 10dB/ 1.972500GHz



CENTER 1.972500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

Equipment Under Test (EUT) Test Operation Mode - Emission tests :

The device under test was operated under the following conditions during emissions testing:

- ☐ - Standby
- ☐ - Test program (H - Pattern)
- ☐ - Test program (color bar)
- ☐ - Test program (customer specific)
- ☐ - Practice operation
- ☒ - Normal Operating Mode
- ☐ - _____

Configuration of the device under test:

The following peripheral devices and interface cables were connected during the measurement:

- | | |
|---|----------------|
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - _____ | Type : _____ |
| ☐ - unshielded power cable | |
| ☐ - unshielded cables | |
| ☐ - shielded cables | MPS.No.: _____ |
| ☐ - customer specific cables | |
| ☐ - _____ | |
| ☐ - _____ | |

DEVIATIONS FROM STANDARD:

None

GENERAL REMARKS:

SUMMARY:

The requirements according to the technical regulations are

■ - met

□ - **not** met.

The device under test does

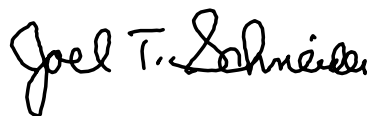
■ - fulfill the general approval requirements mentioned on page 3.

□ - **not** fulfill the general approval requirements mentioned on page 3.

Testing Start Date: 10 April 2002

Testing End Date: 10 April 2002

- TÜV PRODUCT SERVICE INC -



Reviewed By:
J. T. Schneider



Tested By:
G. S. Jakubowski

TEST SETUP FOR EMISSIONS TESTING

See Test Setup Exhibit



Radiated emission (case radiation) test setup photos

See Test Setup Exhibit

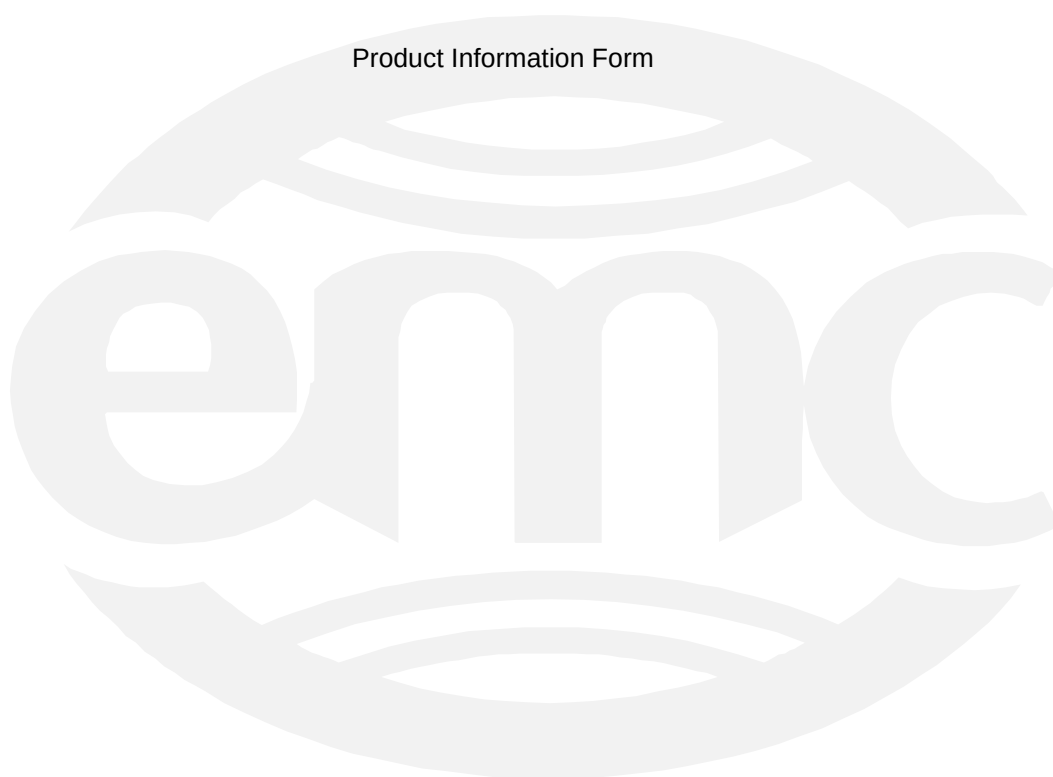


Appendix A

Constructional Data Form

And/or

Product Information Form



EMC Test Plan and Constructional Data Form



PLEASE COMPLETE THIS DOCUMENT IN FULL, ENTERING N/A IF THE FIELD IS NOT APPLICABLE.

Applicant -- NOTE: This information will be input into your test report as shown below.
Press the F1 key at any time to get HELP for the current field selected.

Company: ADC Inc.

Address: P.O. Box 1101
Minneapolis, MN 55440-1101

Contact: Mark F. Miska Position: Compliance Engineer

Phone: 952-233-6479 Fax: 952-233-6388

E-mail Address: mark_miska@adc.com

General Equipment Description -- NOTE: This information will be input into your test report as shown below.

EUT Description: Transports RF between a remote antenna and a customer provided base station.

EUT Name: Digivance Long Range Coverage Solution 1900 MHz System (A,D / D,B,E / B,E,F / E,F,C Band)

Model No.: DGVL-431110SYS, DGVL-441110SYS, DGVL-451110SYS, and DGVL-461110SYS Serial No.: None

Product Options: Receive Diversity

Configurations to be tested: 1900 MHz System: A,D / D,B,E / B,E,F / E,F,C Band Version with Diversity option

Test Objective

☐ EMC Directive 89/336/EEC (EMC)	☒ FCC: Class	☐ A	☐ B	Part <u>24</u>
Std: _____	☐ VCCI: Class	☐ A	☐ B	
☐ Machinery Directive 89/392/EEC (EMC)	☐ BCIQ: Class	☐ A	☐ B	
Std: _____	☐ Canada: Class	☐ A	☐ B	
☐ Medical Device Directive 93/42/EEC (EMC)	☐ Australia: Class	☐ A	☐ B	
Std: _____	☐ Other: _____			
☐ Vehicle Directive 72/245/EEC (EMC)				
Std: _____				
☐ FDA Reviewers Guidance for Premarket Notification Submissions (EMC)				

TÜV Product Service Certification Requested

☐ Attestation of Conformity (AoC)	☐ International EMC Mark (IEM)
☐ Certificate of Conformity (CoC)	☐ Compliance Document
Protection Class (N/A for vehicles)	☐ Class I ☐ Class II ☐ Class III

(Press **F1** when field is selected to show additional information on Protection Class.)

EMC Test Plan and Constructional Data Form

**Attendance**Test will be: ☒ Attended by the customer ☐ Unattended by the customer**Failure - Complete this section if testing will not be attended by the customer.**

If a failure occurs, TUV Product Service should:

- ☐ Call contact listed above, if not available then stop testing. (After hrs phone): _____
- ☐ Continue testing to complete test series.
- ☐ Continue testing to define corrective action.
- ☐ Stop testing.

EUT Specifications and RequirementsLength: 19 Width: 51" Height: 27 Weight: 62 LB**Power Requirements***Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)*Voltage: 115 VAC (If battery powered, make sure battery life is sufficient to complete testing.)# of Phases: 1Current (Amps/phase(max)): 15 Current (Amps/phase(nominal)): 10

Other _____

Other Special Requirements

none

Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.)

Host indoor only with STM and LPA indoor or outdoor. System is typically employed as a Microcell.

EUT Power Cable

☐ Permanent	OR	☒ Removable	Length (in meters): <u>1</u>
☐ Shielded	OR	☒ Unshielded	
☐ Not Applicable			

EMC Test Plan and Constructional Data Form

EUT Interface Ports and Cables												
Interface			Shielding									
Type	Analog	Digital	Qty	Yes	No	Type	Termination	Connector Type	Port Termination	Length (in meters)	Removable	Permanent
EXAMPLE: RS232	☐	☒	2	☒	☐	Foil over braid	Coaxial	Metallized 9-pin D-Sub	Characteristic Impedance	6	☒	☐
RF "N" type	☒	☐	5	☒	☐	Braid	Coaxial	N	50 Ohms	>3	☒	☐
Alarm	☒	☐	1	☐	☒	Not Specified	N/A	6 Pin Standoff		>3	☒	☐
Alarm	☒	☐	1	☐	☒	Not Specified	N/A	4 Pin Standoff		>3	☒	☐
Fiber	☐	☒	3	☐	☒	N/A	N/A	SC	N/A	>3	☒	☐
9 Pin Din	☐	☒	2	☒	☐	Not Specified	AC Coupled	Din		>3	☒	☐
Net in	☐	☒	1	☐	☒	Not Specified	N/A	Cat 5		>3	☒	☐
Net out	☐	☒	1	☐	☒	Not Specified	N/A	Cat 5		3	☒	☐
DC power block	☒	☐	1	☐	☒	None		Terminal		>3	☒	☐
AC power	☒	☐	1	☐	☒	None				<3	☒	☐
STM to Amp Interconnect	☒	☒	1	☒	☒	Varied	Chassis	Special		.3	☒	☐
Battery Connection	☐	☐	1	☐	☒	N/A	N/A	2 Pin Standoff		<1	☒	☐
	☐	☐		☐	☐						☐	☐

EMC Test Plan and Constructional Data Form

EUT Software.

Revision Level: Version 0.00.00.12

Description: Digivance Element Management System (DEMS). System Management and Interface Matching Software.

EUT Operating Modes to be Tested -- list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

1. Max composite in and out
- 2.
- 3.

EUT System Components -- List and describe all components which are part of the EUT. For FCC testing a minimum configuration is required. (ie. Mouse, Printer, Monitor, External Disk Drive, Motherboard, etc.)

Description	Model #	Serial #	FCC ID #
Host Unit	DGVL-401010HU	None	
STM A,D Band	DGVL-431010STM	None	
STM D,B,E Band	DGVL-441010STM	None	
STM B,E,F Band	DGVL-451010STM	None	
STM E,F,C Band	DGVL-461010STM	None	
Amp	DGVL-1216384LPA	None	
Amp	DGVL-1216387LPA	None	
Digivance LRCS 1900 MHz System Model DGVL-431110SYS, DGVL-441110SYS, DGVL- 451110SYS and DGVL- 461110SYS consist of the HU, STM, and LPA.			

EMC Test Plan and Constructional Data Form

Support Equipment -- List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc)			
<i>Description</i>	<i>Model #</i>	<i>Serial #</i>	<i>FCC ID #</i>
Signal Generator	HP E4432B	MC22109	
DC Power Supply	HP 6633A	MC21690	

Oscillator Frequencies			
<i>Frequency</i>	<i>Derived Frequency</i>	<i>Component # / Location</i>	<i>Description of Use</i>

Power Supply			
<i>Manufacturer</i>	<i>Model #</i>	<i>Serial #</i>	<i>Type</i>
ADC			☐ Switched-mode: (Frequency) _____ ☐ Linear ☐ Other: _____
			☐ Switched-mode: (Frequency) _____ ☐ Linear ☐ Other: _____

Power Line Filters		
<i>Manufacturer</i>	<i>Model #</i>	<i>Location in EUT</i>
None		

EMC Test Plan and Constructional Data Form



Critical EMI Components (Capacitors, ferrites, etc.)

Description	Manufacturer	Part # or Value	Qty	Component # / Location
None				

EMC Critical Detail -- Describe other EMC Design details used to reduce high frequency noise.

none

(PLEASE INSERT "ELECTRONIC SIGNATURE" BELOW IF POSSIBLE)

Authorization Signatures

Customer authorization to perform tests
according to this test plan.

Date

Test Plan/CDF Prepared By (please print)

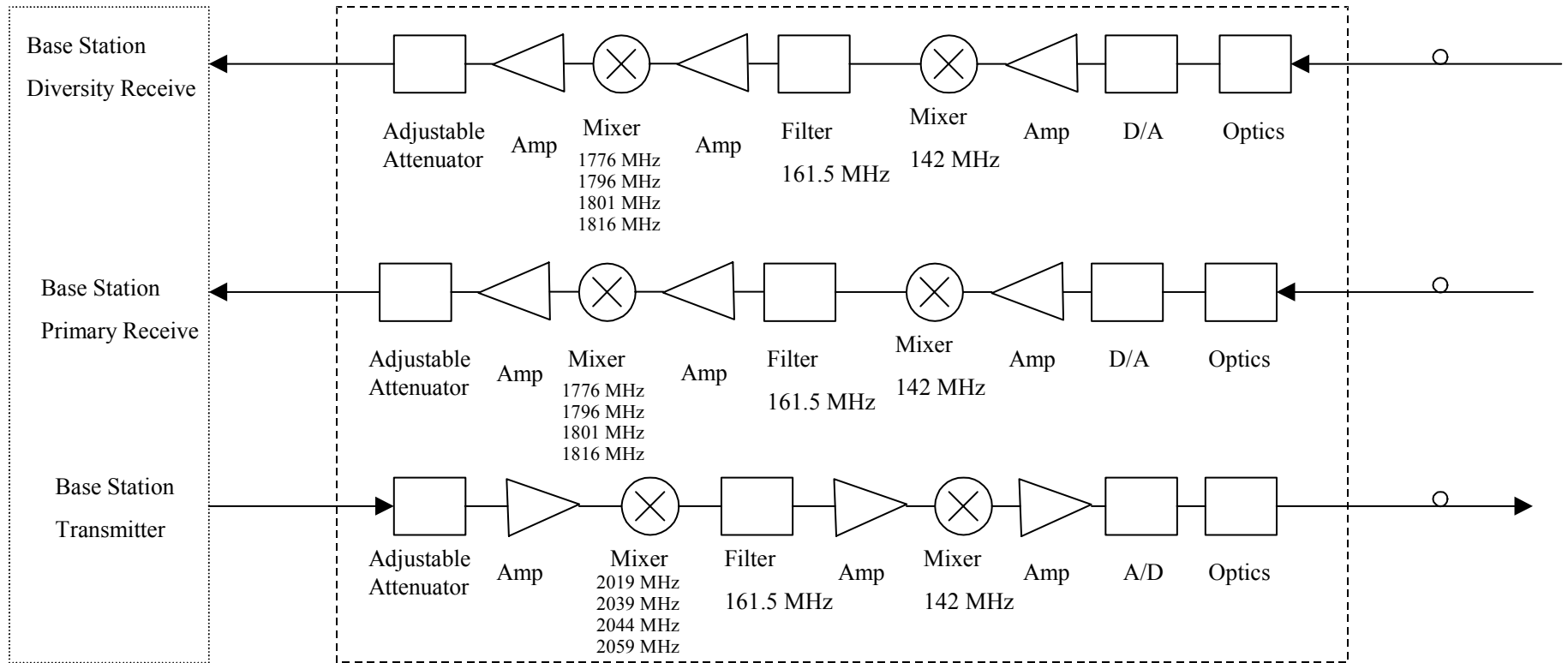
Date

Reviewed by TÜV Product Service Associate

Date

Digivance 1900 MHz LRCS

Host Unit



Digivance LRCS

