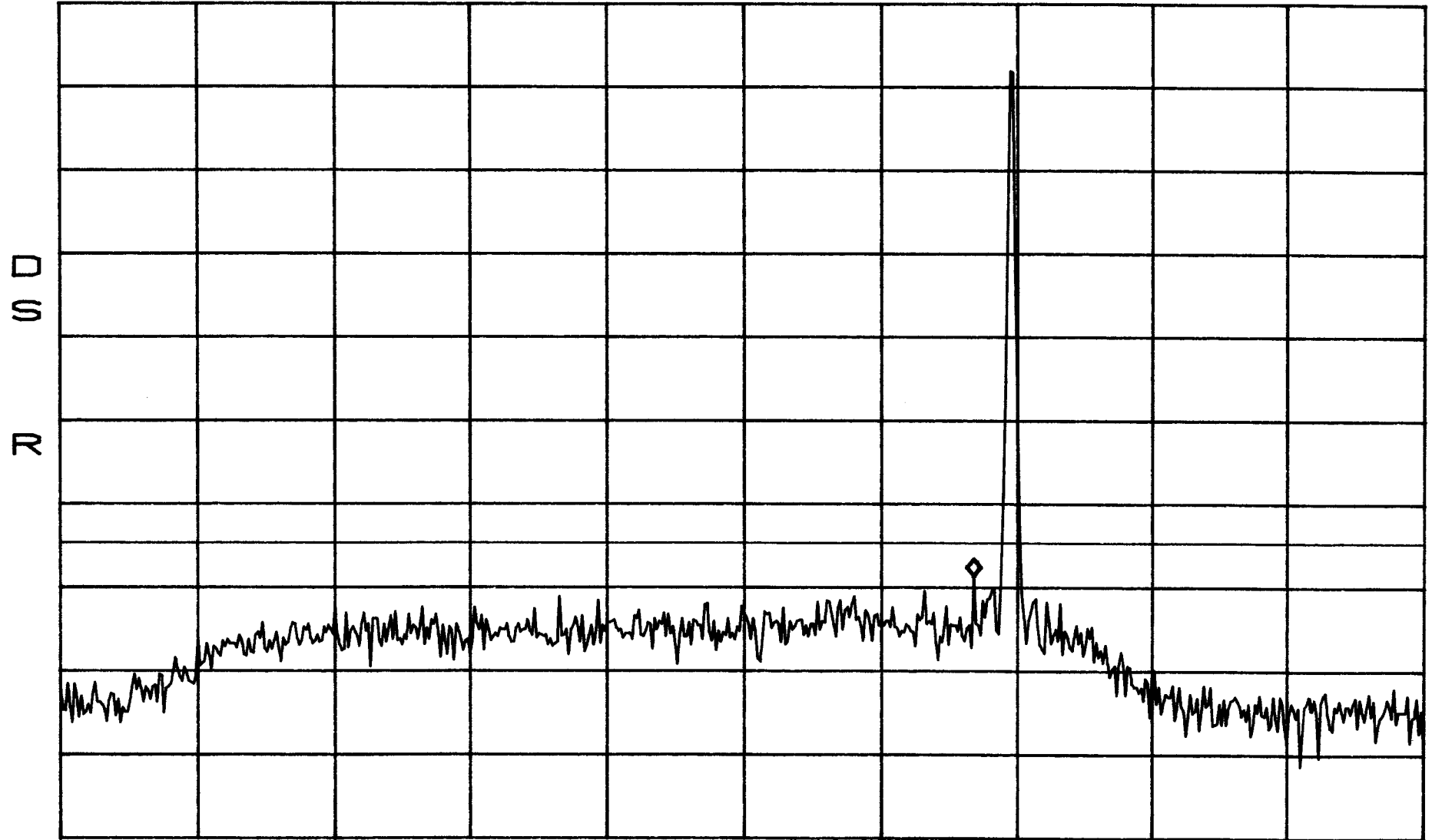


*ATTEN 30dB
RL 51.8dBm

MKR -16.70dBm
892.05MHz

10dB/



CENTER 887.00MHz
*RBW 30kHz VBW 30kHz

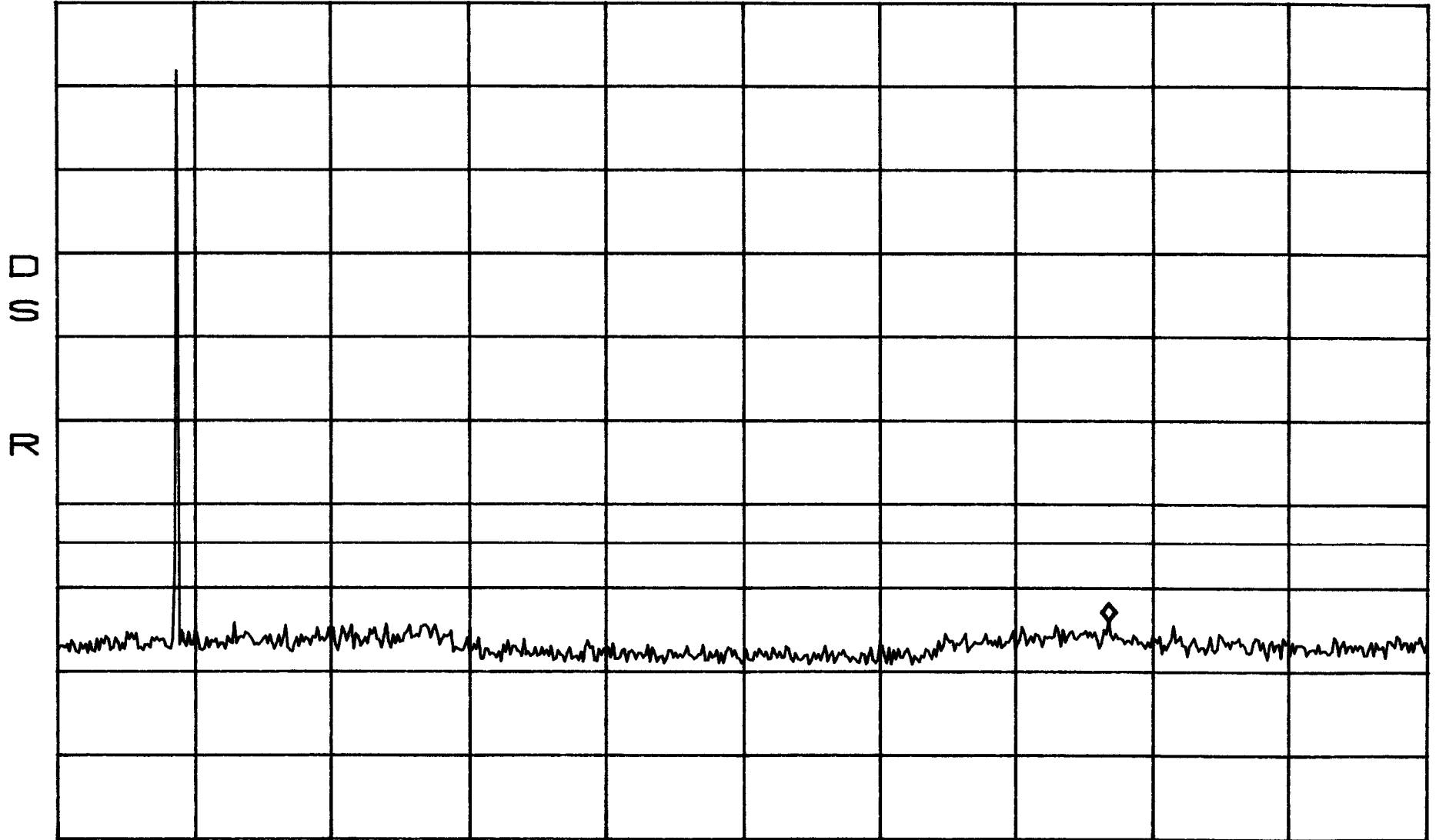
SPAN 30.00MHz
SWP 84ms

Conducted Emissions Band B
High

*ATTEN 30dB
RL 51.8dBm

MKR -22.03dBm
7.690GHz

10dB/



START 30MHz
*RBW 100kHz

VBW 100kHz

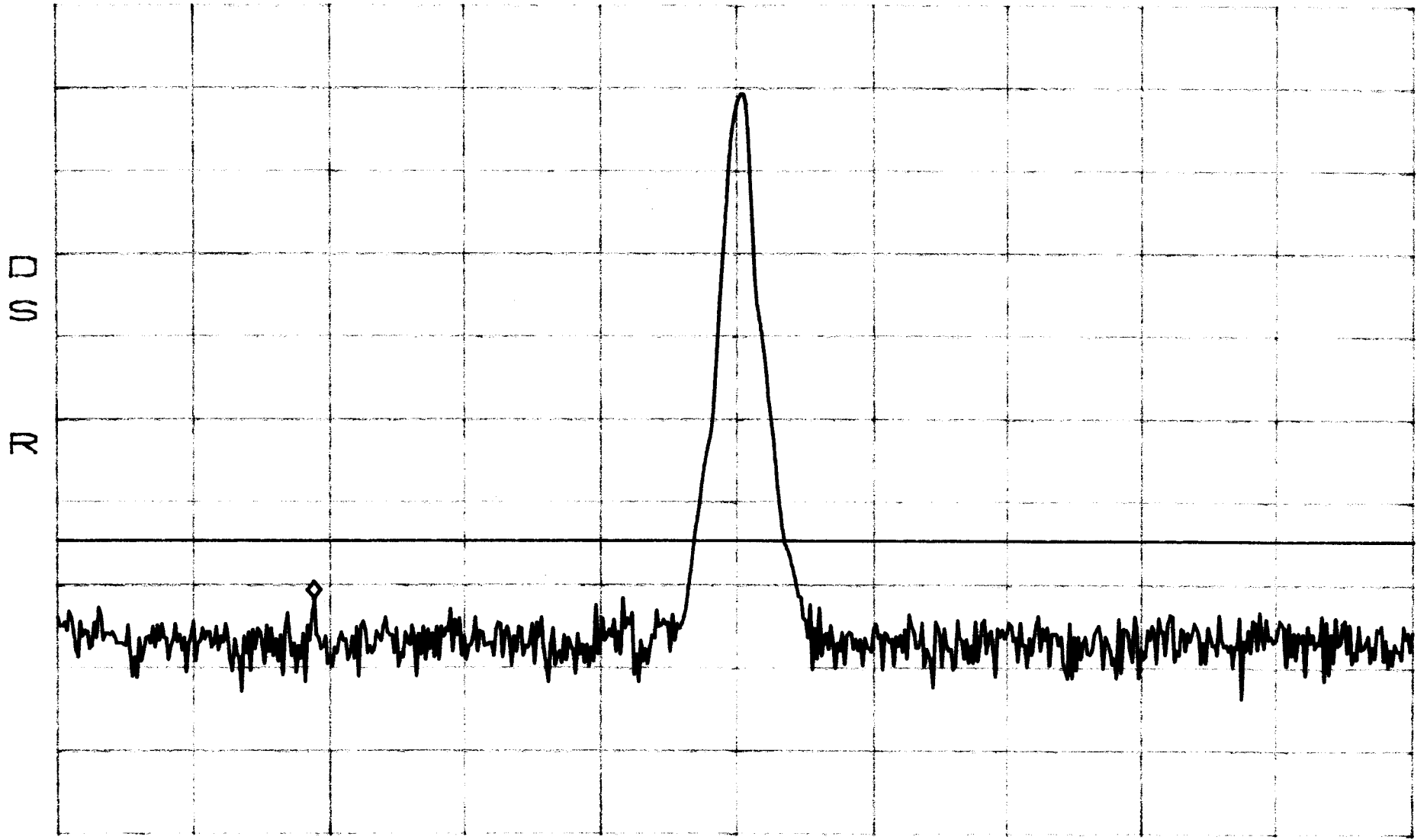
STOP 10.000GHz
SWP 2.5sec

Conducted Emissions Band A
FM

*ATTEN 30dB
RL 51.8dBm

MKR -19.70dBm
878.442MHz

10dB/



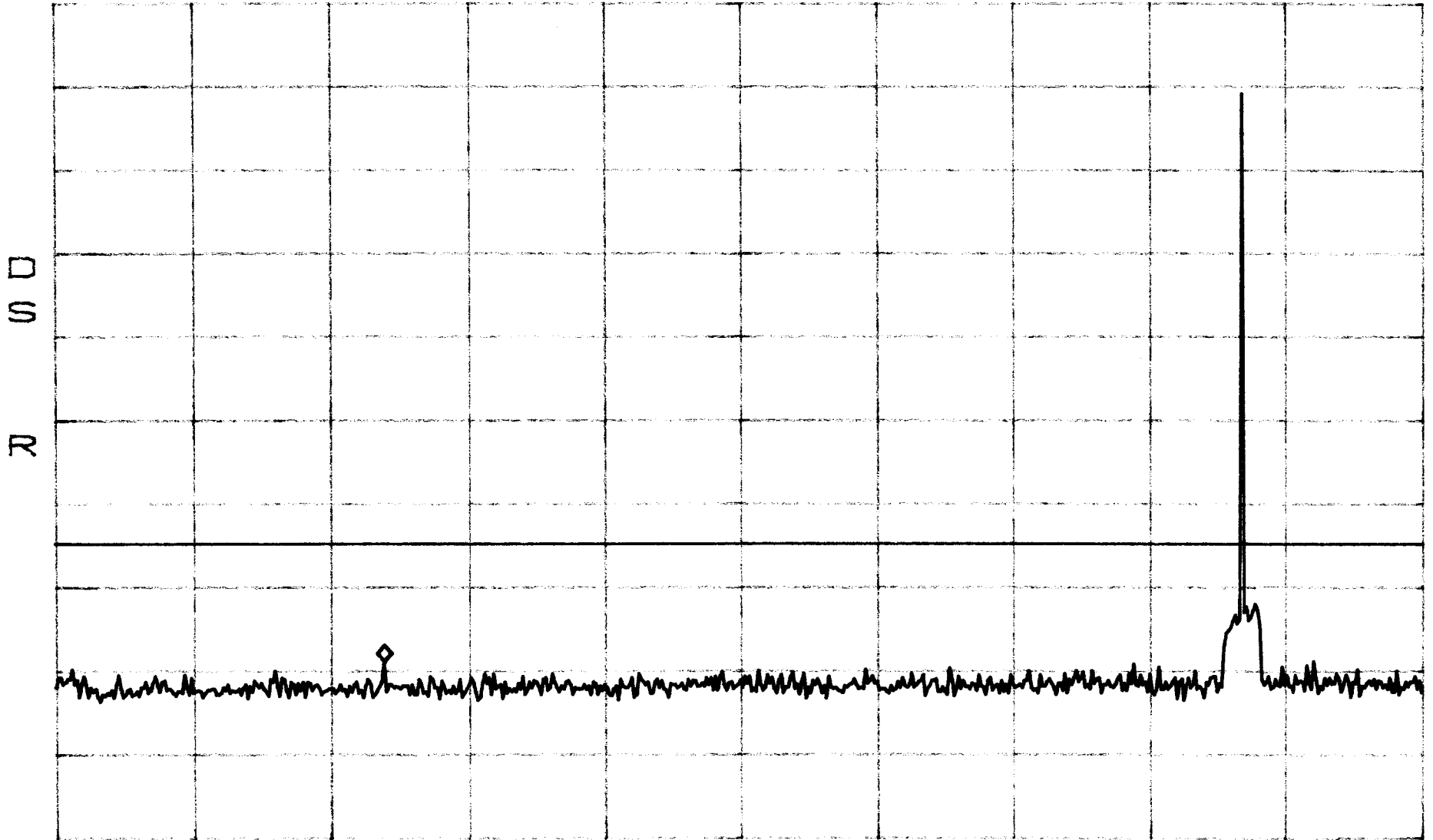
CENTER 880.000MHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band A
FM

*ATTEN 30dB
RL 51.8dBm

MKR -27.03dBm
261.2MHz

10dB/



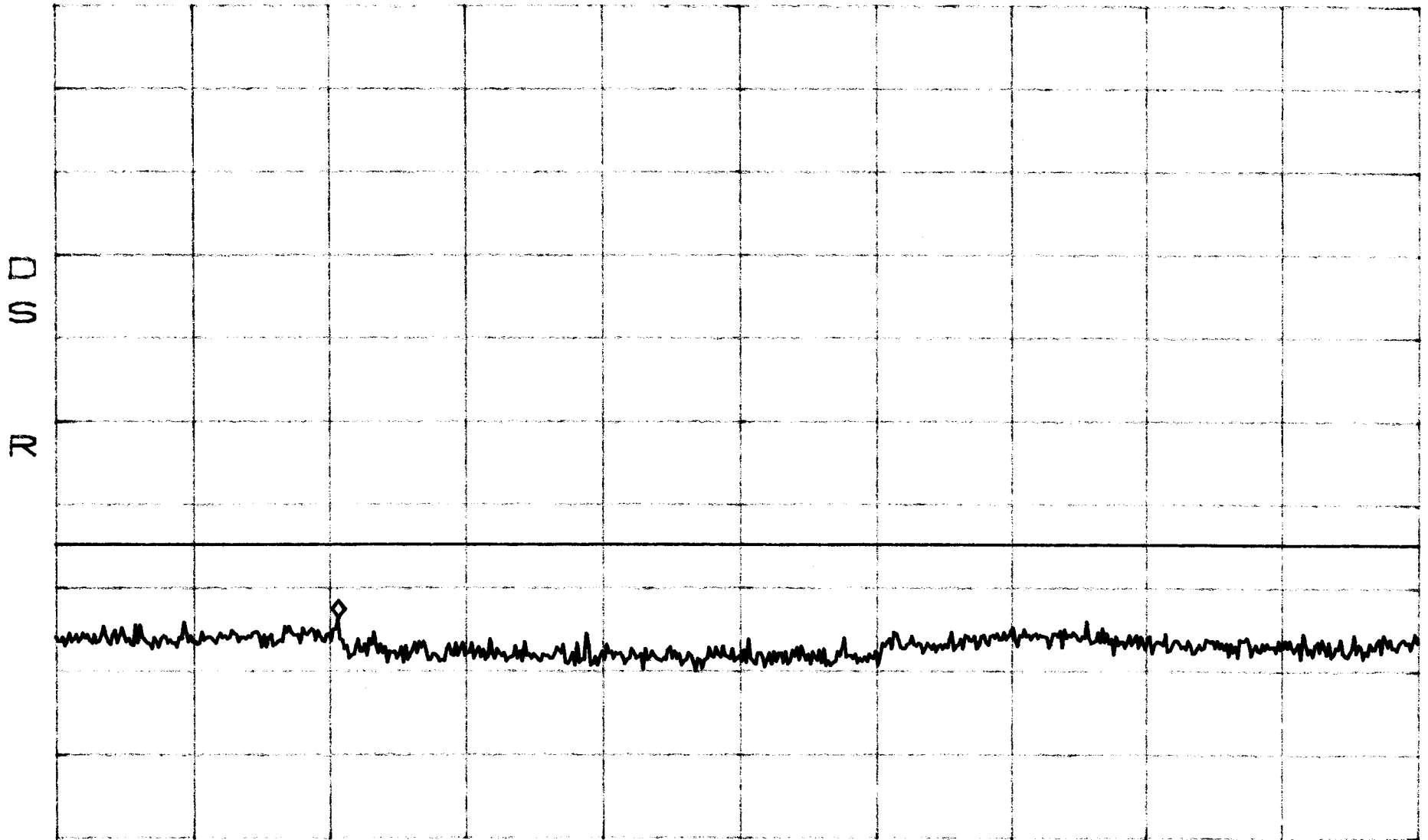
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band A
FM

*ATTEN 30dB
RL 51.8dBm

MKR -21.70dBm
2.860GHz

10dB/



START 1.000GHz

STOP 10.000GHz

*RBW 100kHz

VBW 100kHz

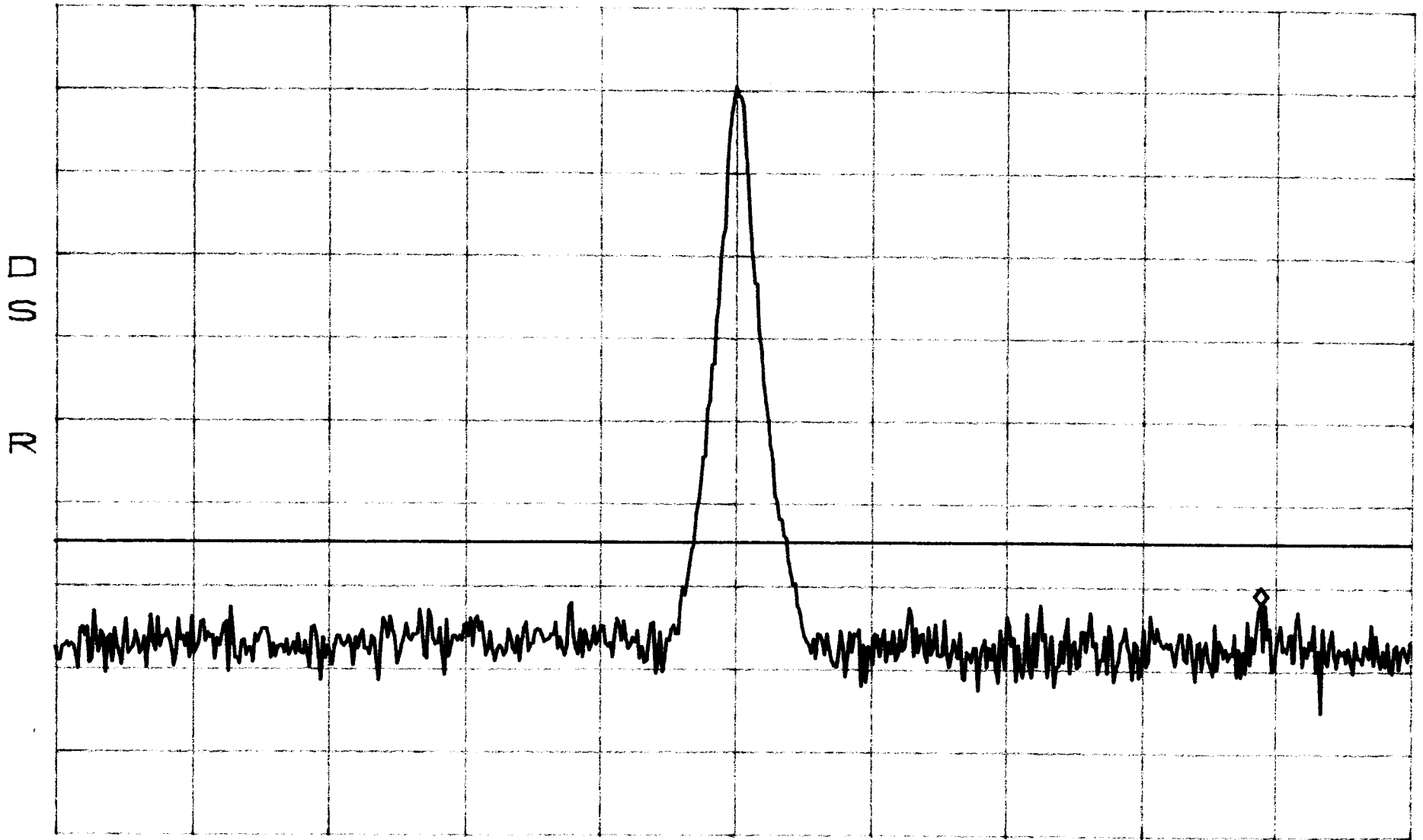
SWP 2.3sec

Conducted Emissions Band A
TDMA

*ATTEN 30dB
RL 51.8dBm

10dB/

MKR -20.03dBm
881.950MHz



CENTER 880.000MHz
*RBW 30kHz VBW 30kHz

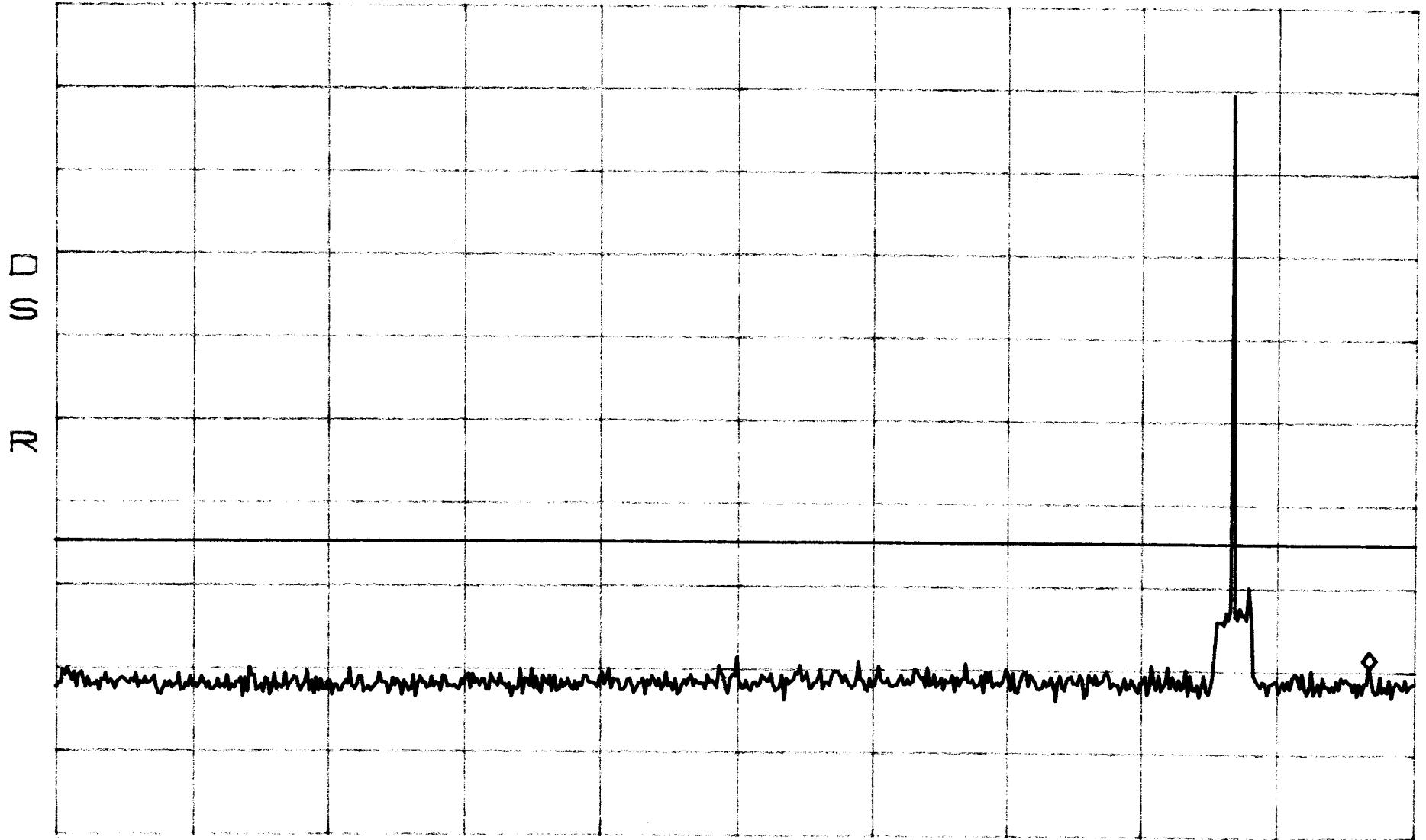
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band A
TDMA

*ATTEN 30dB
RL 51.8dBm

MKR -27.70dBm
967.7MHz

10dB/



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

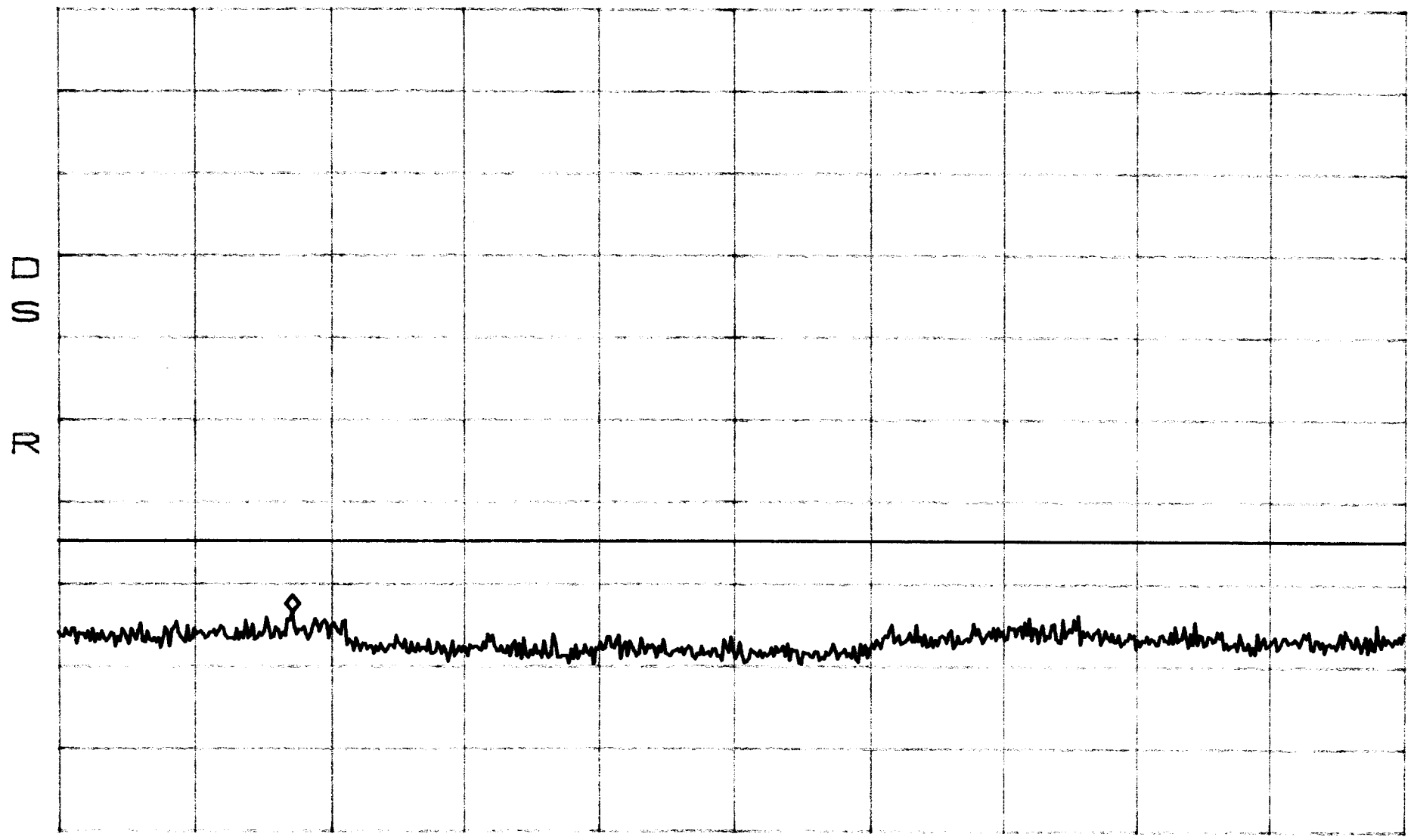
SWP 2.7sec

Conducted Emissions Band A
TDMA

*ATTEN 30dB
RL 51.8dBm

MKR -21.53dBm
2.545GHz

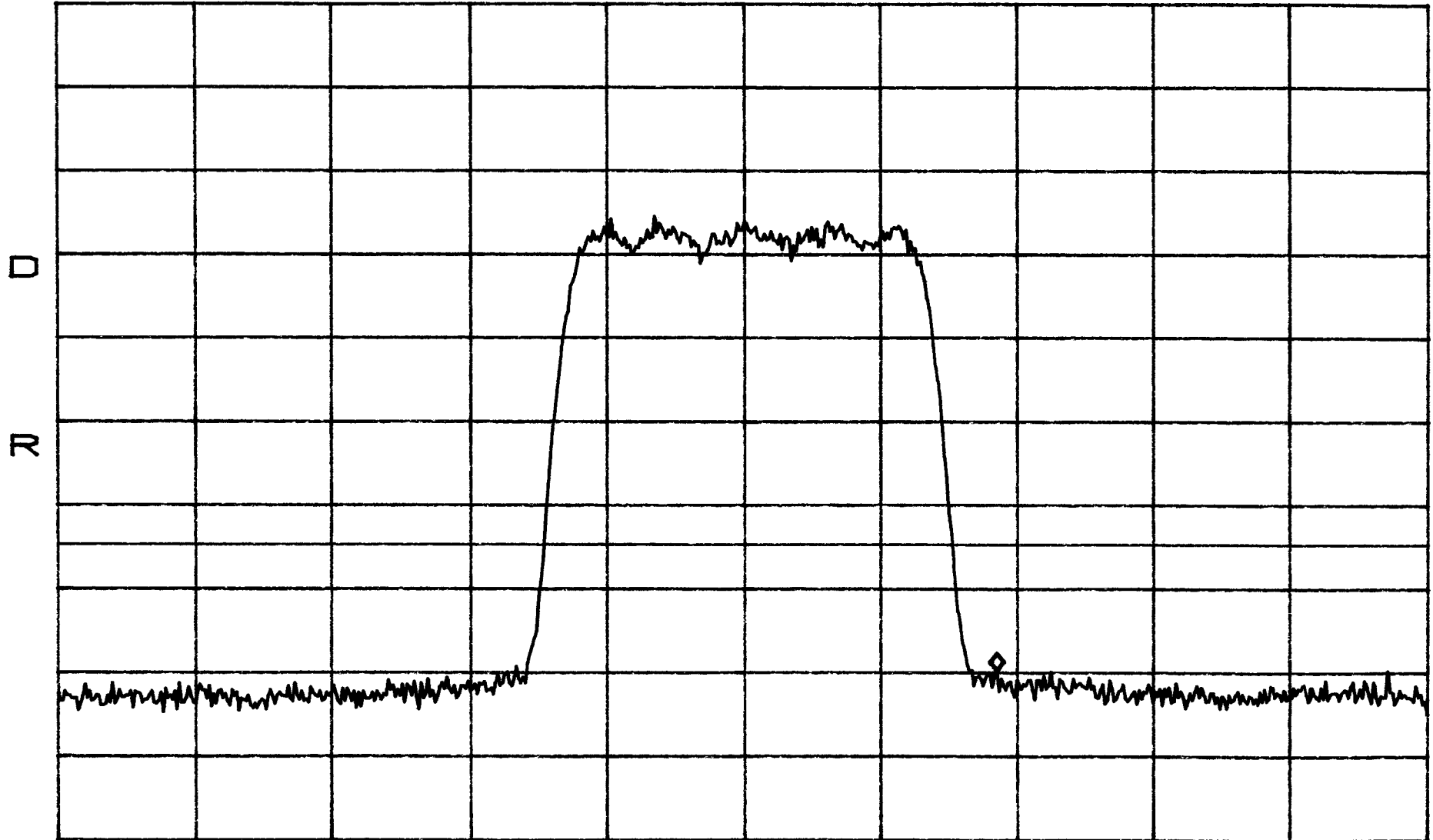
10dB/BPO



START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band A
CDMA

*ATTEN 30dB VAVG 100 MKR -27.87dBm
RL 51.8dBm 10dB/ 880.925MHz

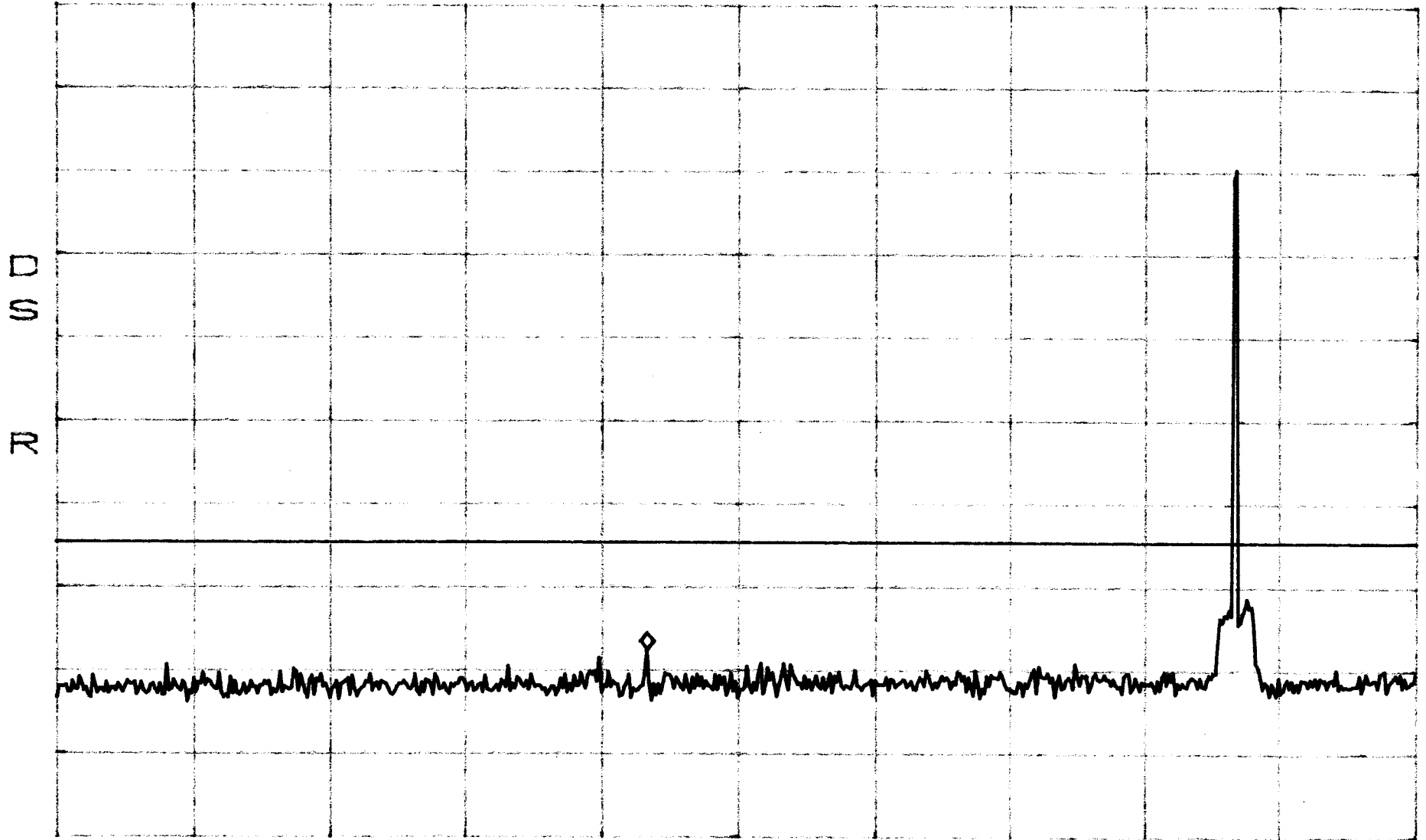


CENTER 880.000MHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band A
CDMA

*ATTEN 30dB
RL 51.8dBm

MKR -25.70dBm
450.3MHz

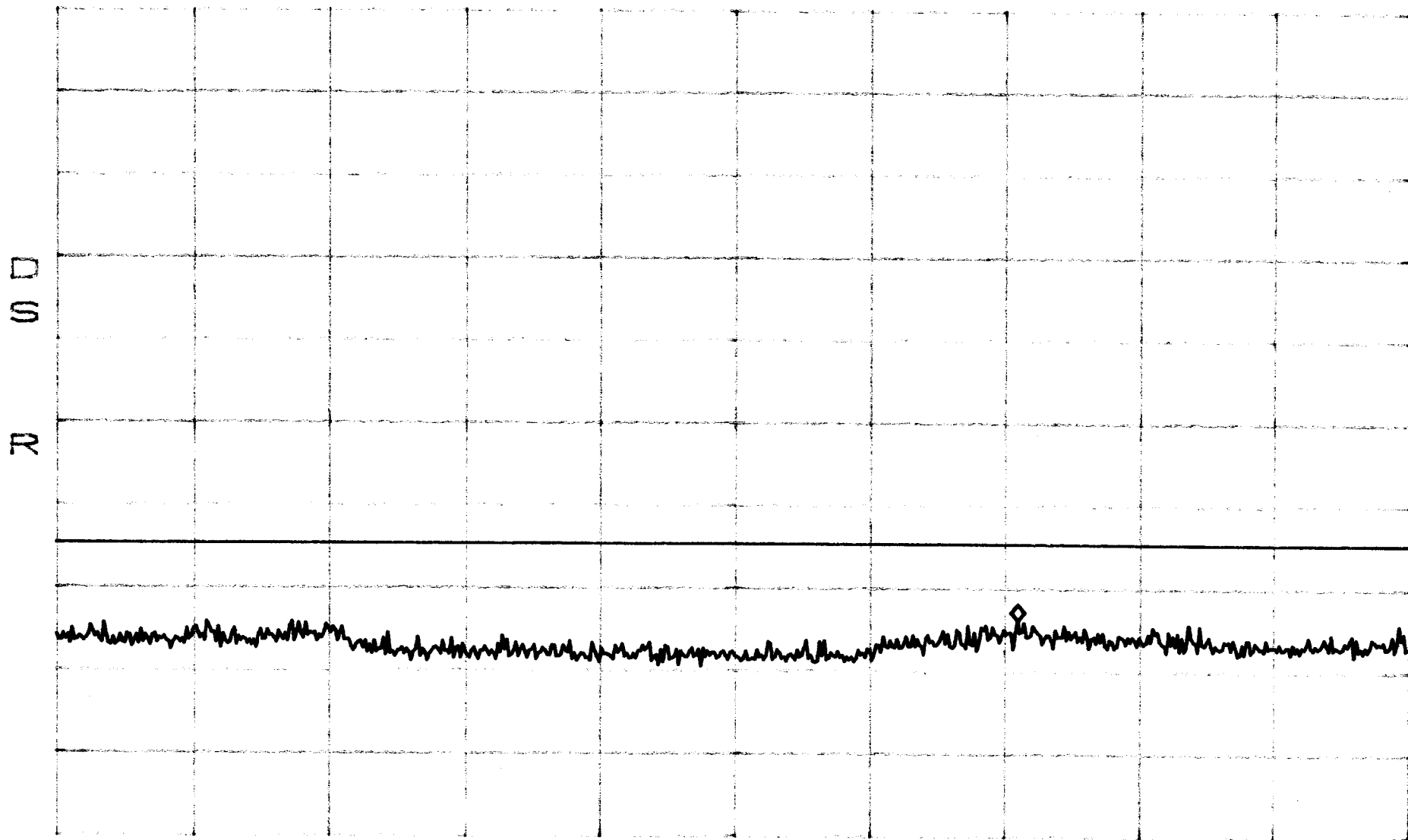


START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band A
CDMA

*ATTEN 30dB
RL 51.8dBm

MKR -22.03dBm
7.390GHz



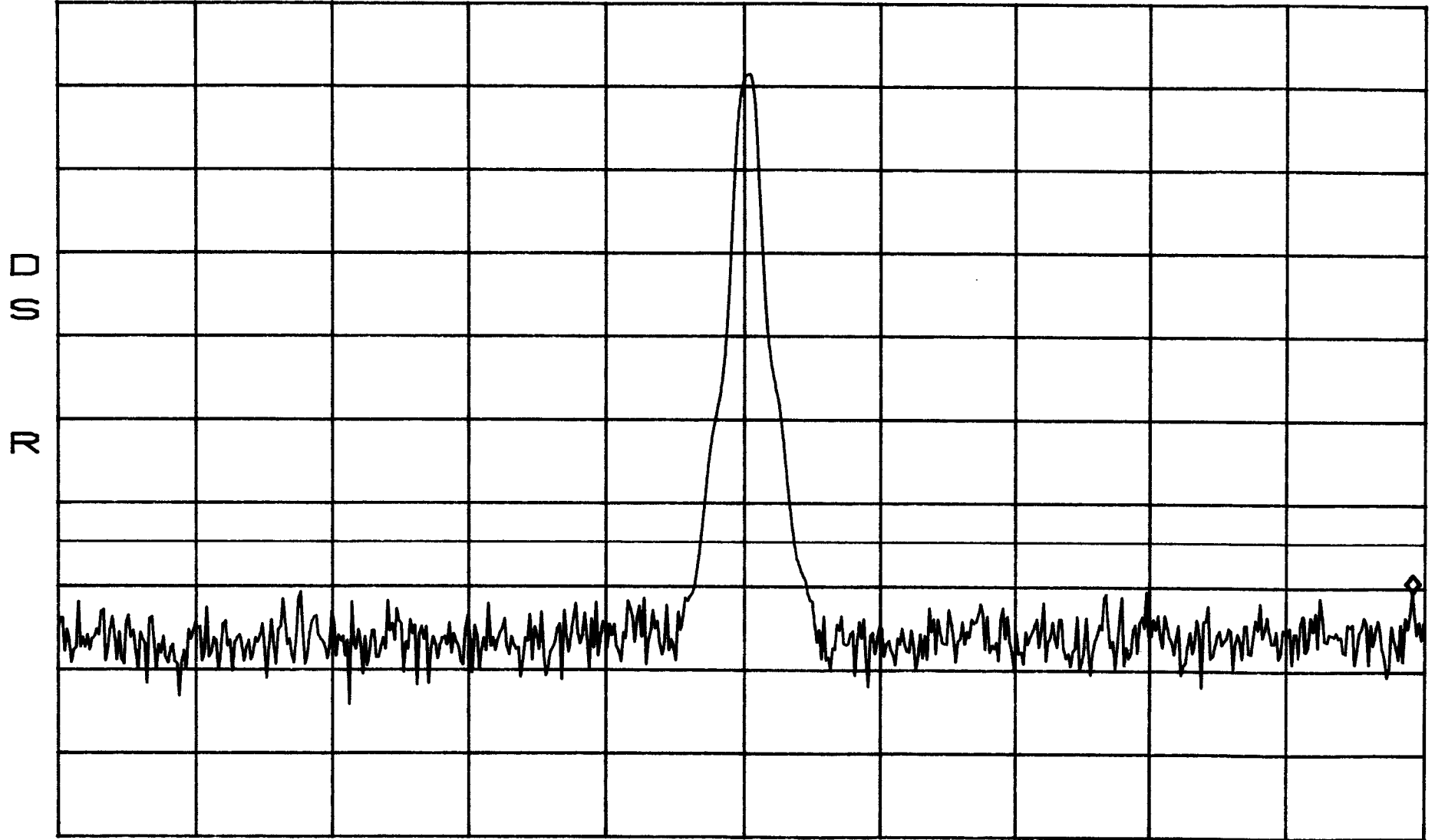
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band B
FM

*ATTEN 30dB
RL 51.8dBm

MKR -18.53dBm
889.458MHz

10dB/



CENTER 887.000MHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

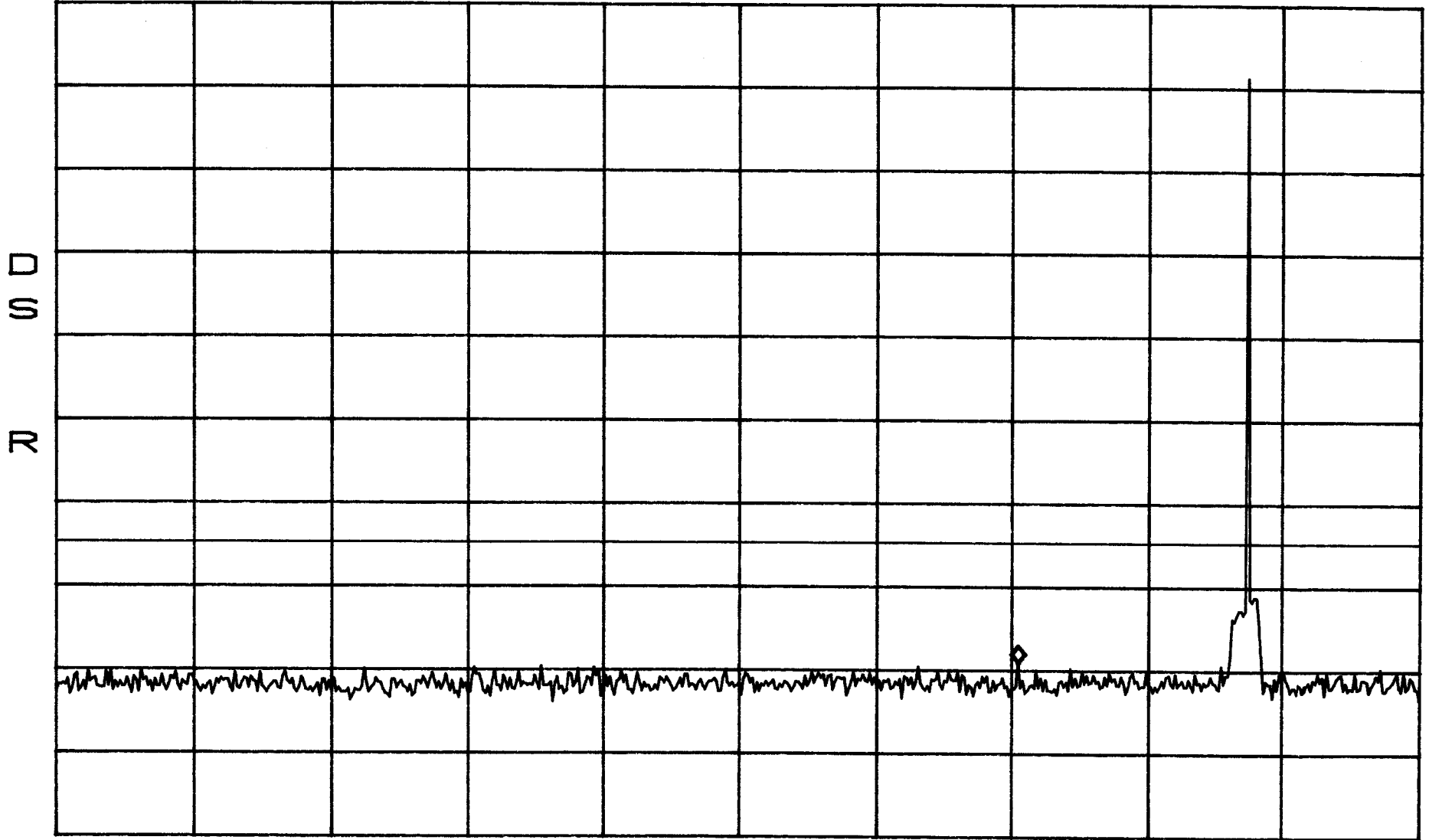
SWP 50ms

Conducted Emissions Band B
FM

*ATTEN 30dB
RL 51.8dBm

10dB/

MKR -27.20dBm
713.9MHz



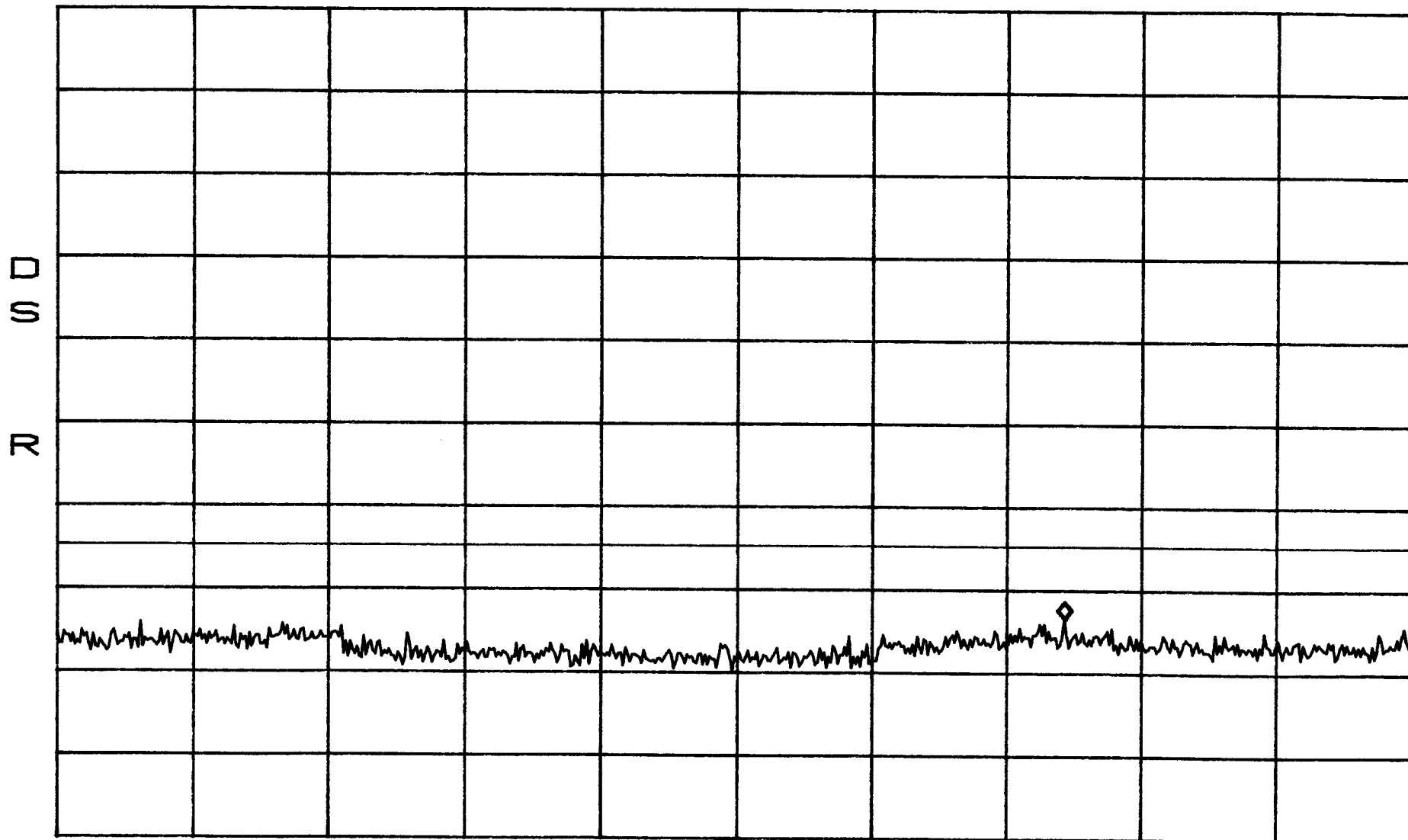
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B
FM

*ATTEN 30dB
RL 51.8dBm

MKR -21.53dBm
7.690GHz

10dB/



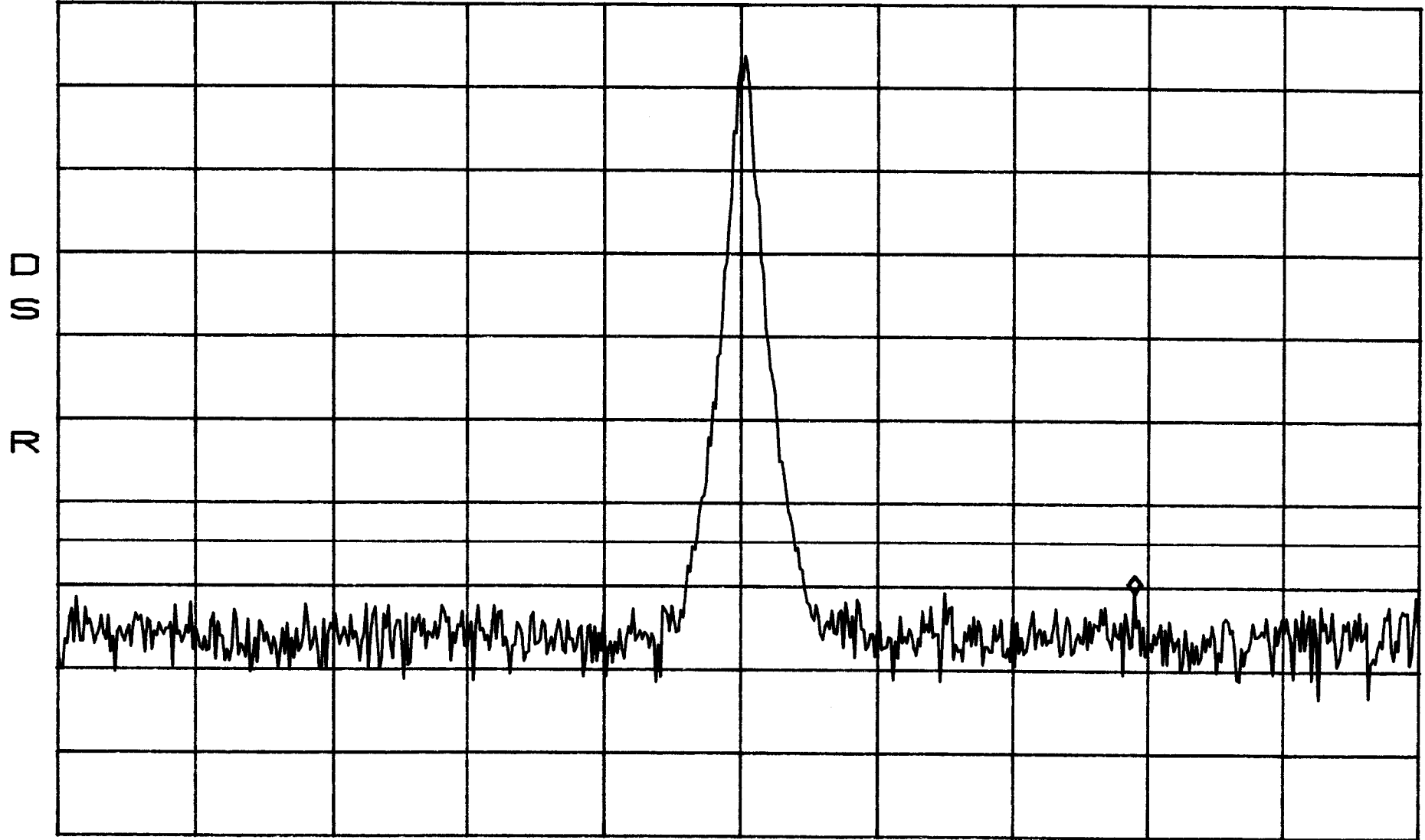
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band B
TDMA

*ATTEN 30dB
RL 51.8dBm

MKR -18.70dBm
888.450MHz

10dB/



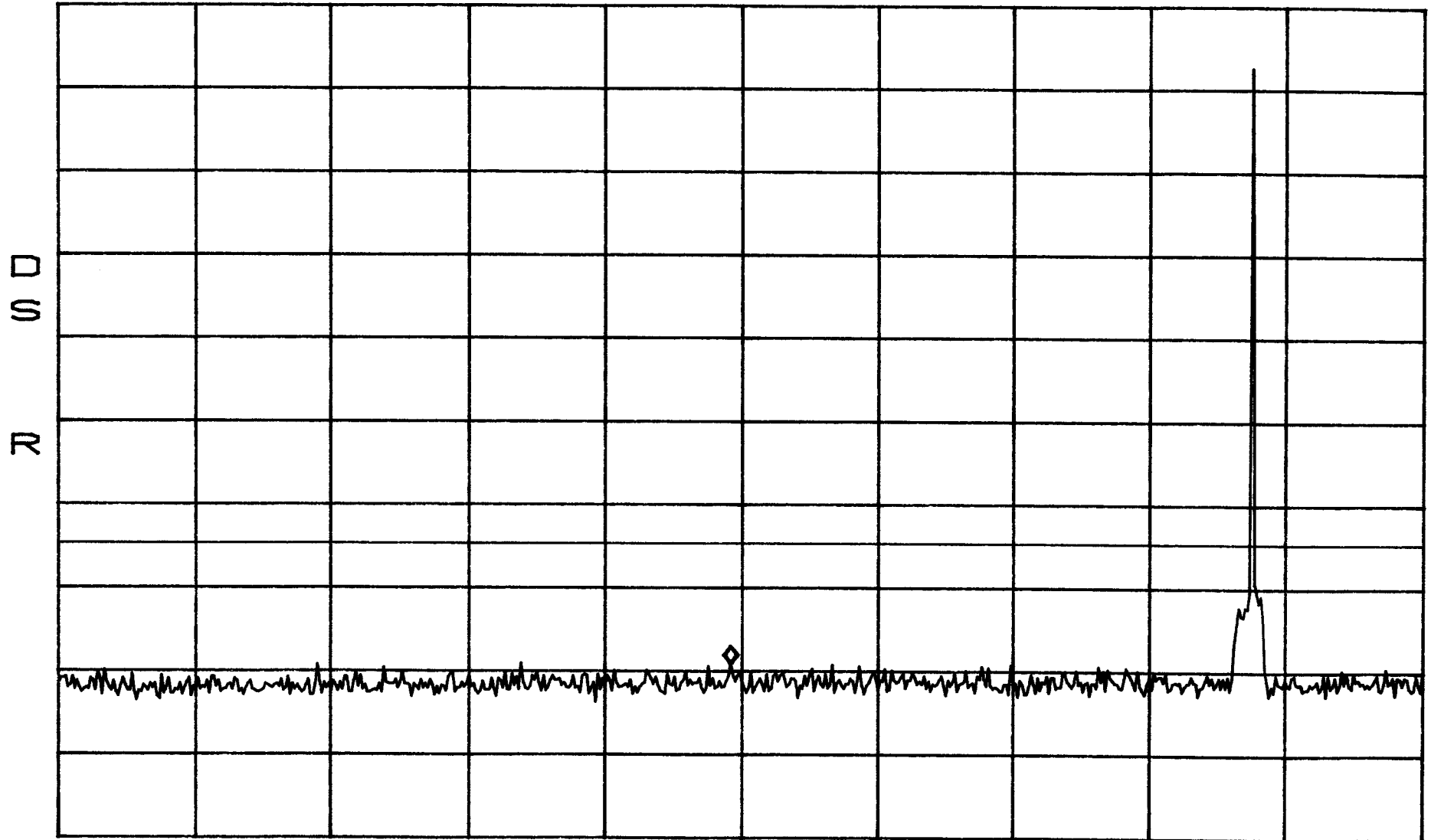
CENTER 887.000MHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band B
TDMA

*ATTEN 30dB
RL 51.8dBm

MKR -27.20dBm
506.9MHz

10dB/



START 30.0MHz
*RBW 30kHz

VBW 30kHz

STOP 1.0000GHz

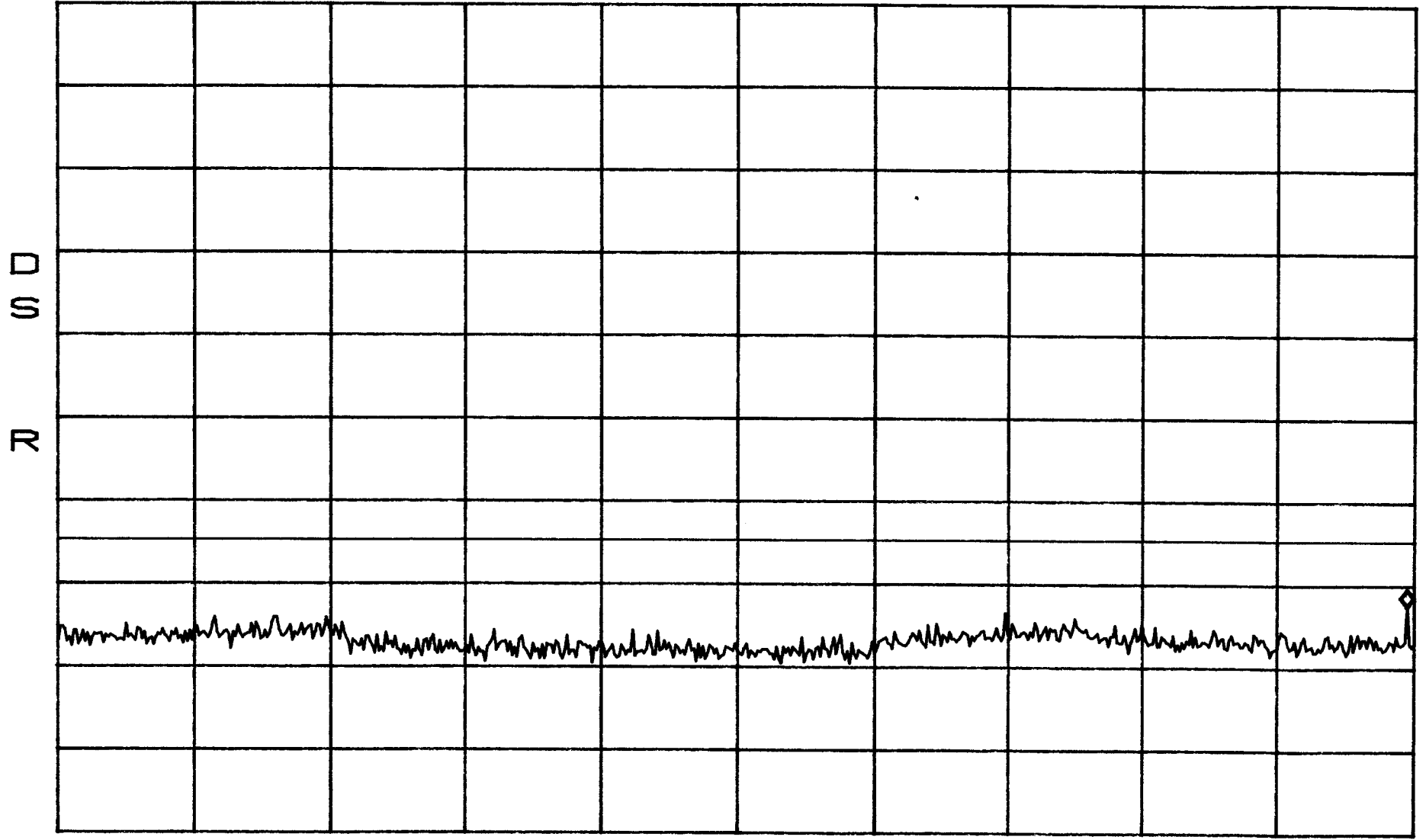
SWP 2.7sec

Conducted Emissions Band B
TDMA

*ATTEN 30dB
RL 51.8dBm

MKR -20.53dBm
9.955GHz

10dB/



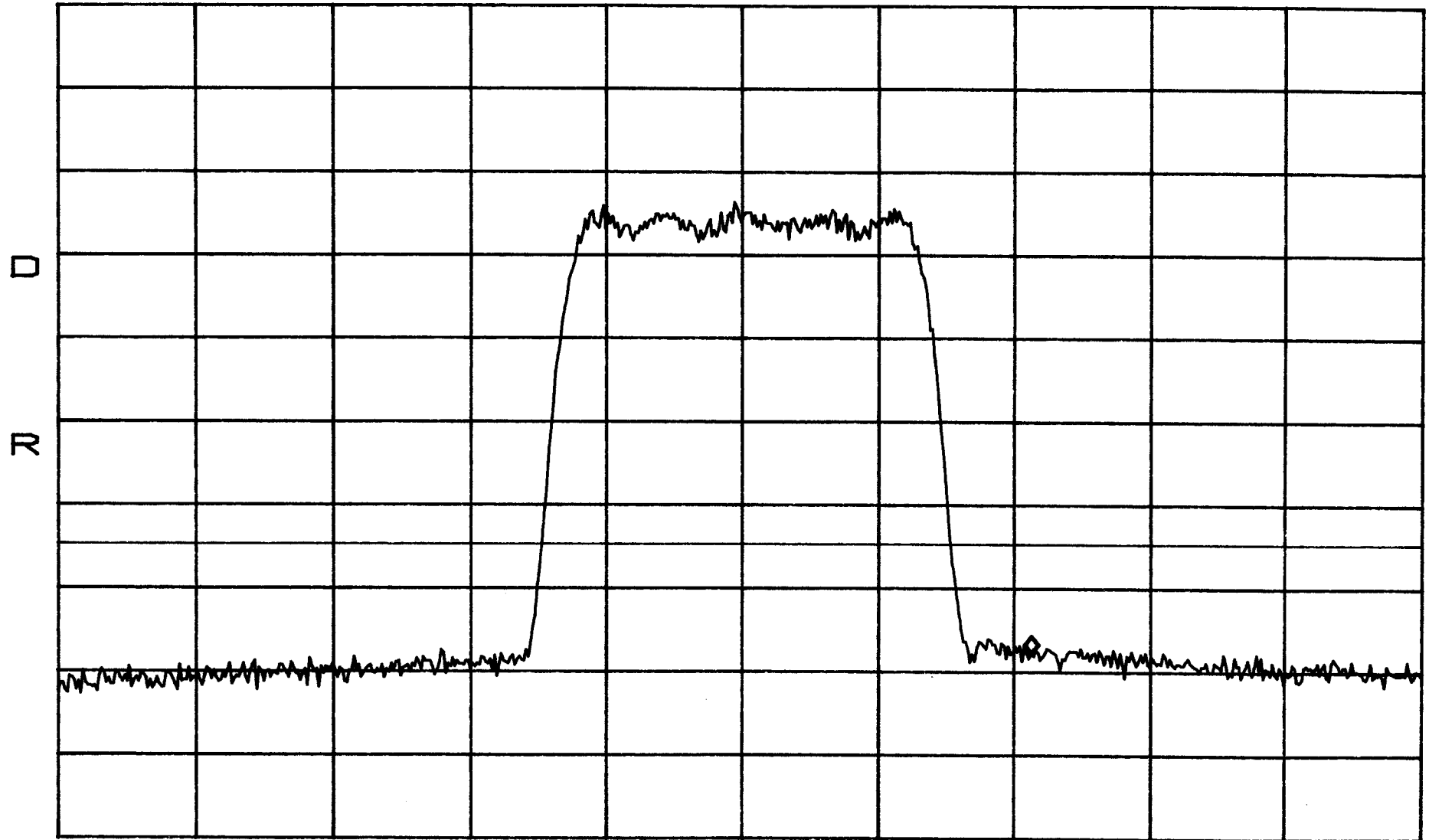
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band B
CDMA

*ATTEN 30dB
RL 51.8dBm

VAVG 100
10dB/

MKR -25.87dBm
888.067MHz



CENTER 887.000MHz
*RBW 30kHz VBW 30kHz

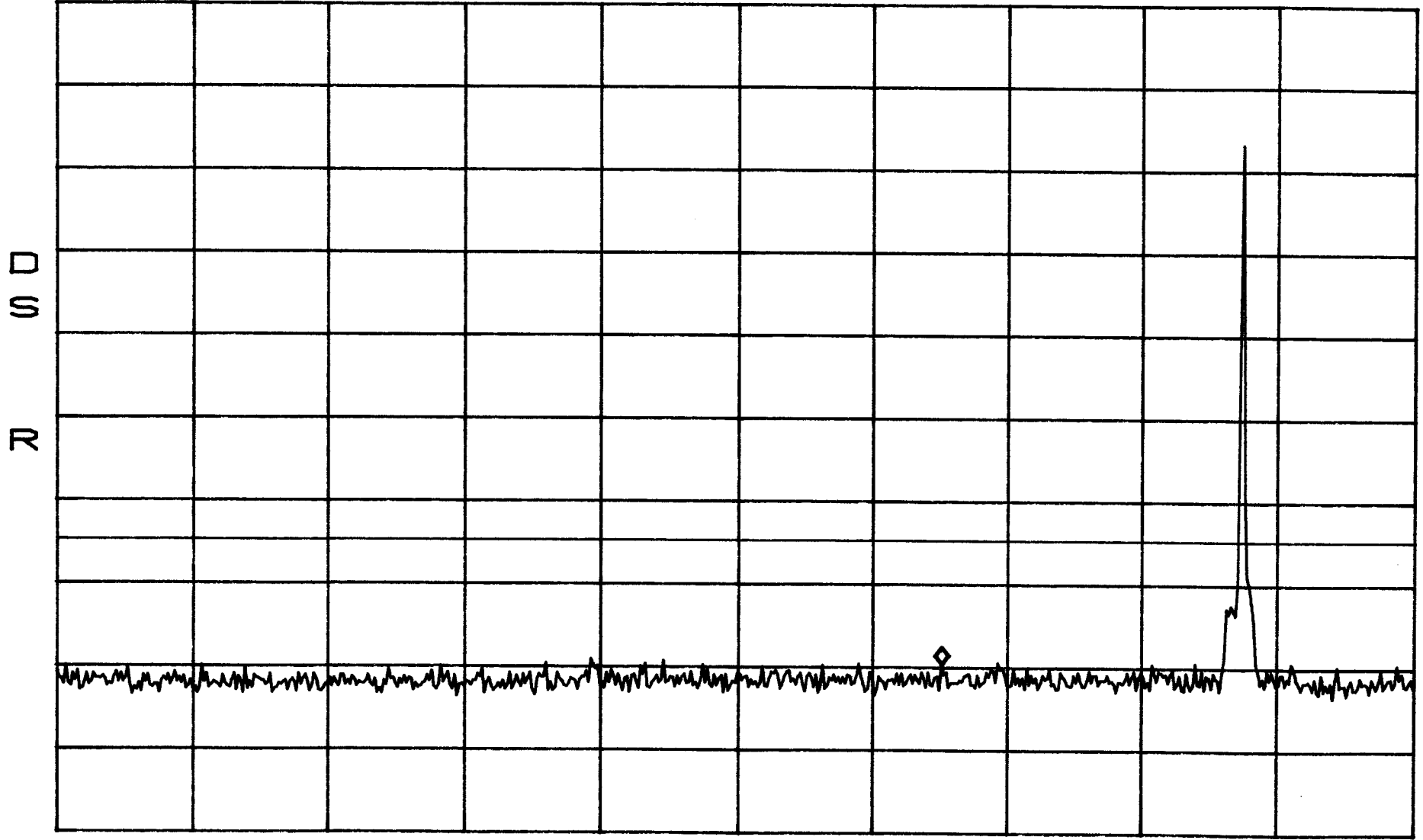
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band B
CDMA

*ATTEN 30dB
RL 51.8dBm

MKR -27.70dBm
662.1MHz

10dB/



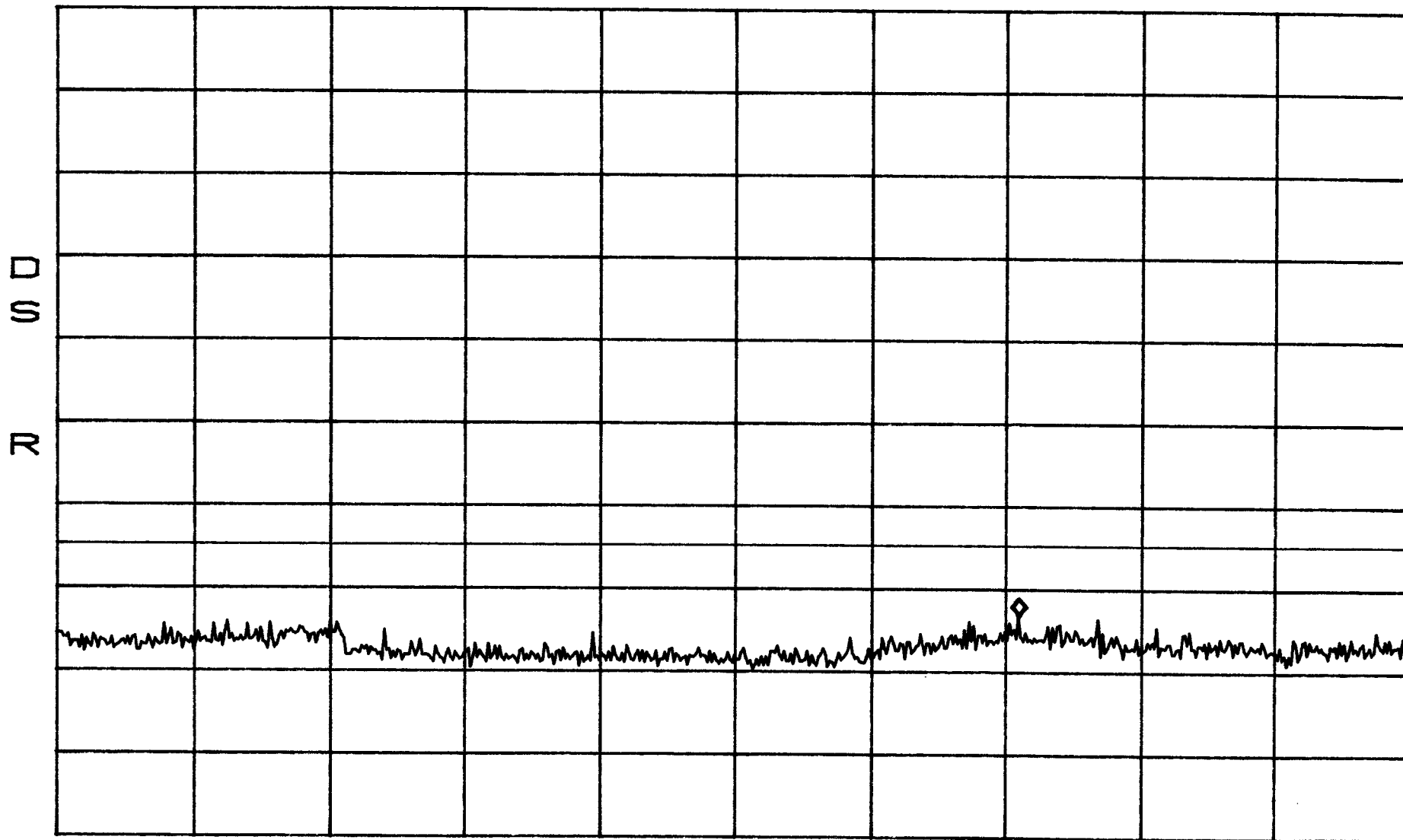
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B
CDMA

*ATTEN 30dB
RL 51.8dBm

MKR -21.20dBm
7.390GHz

10dB/



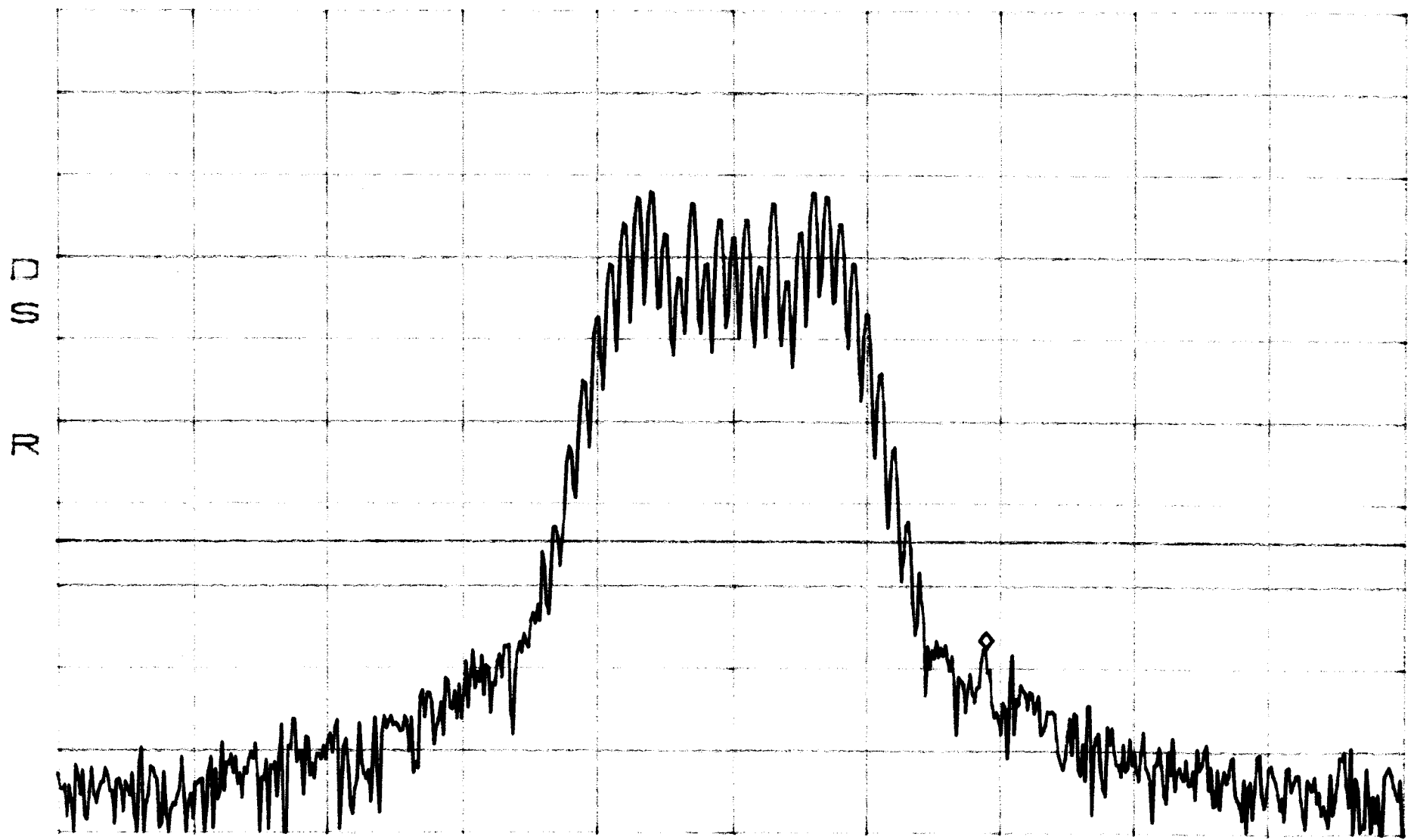
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band A
Band Edge
FM

*ATTEN 30dB
RL 51.8dBm

MKR -25.70dBm
869.2190MHz

10dB/



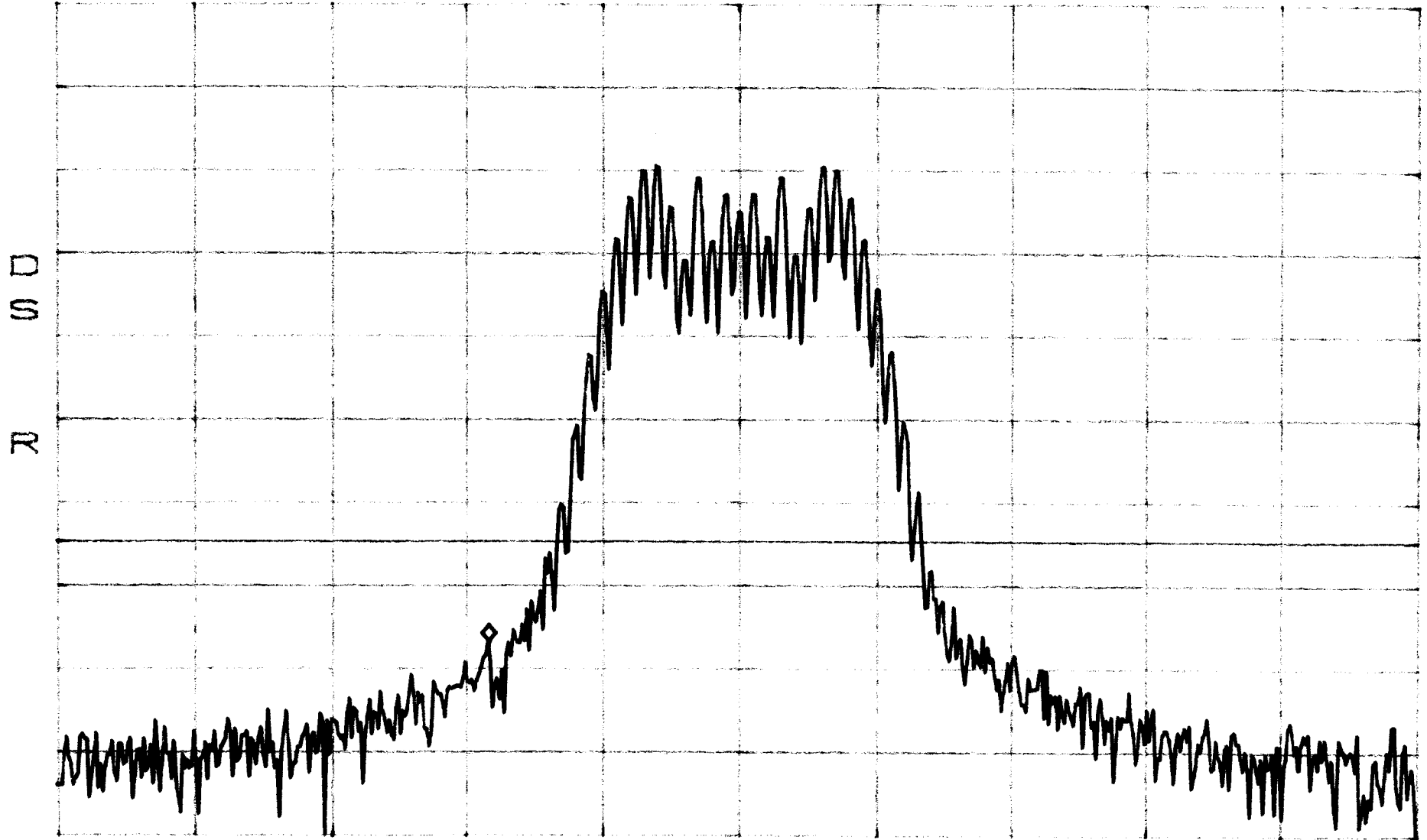
CENTER 869.2000MHz SPAN 100.0kHz
*RBW 300Hz VBW 300Hz SWP 2.8sec

Conducted Emissions Band A
Band Edge
FM

*ATTEN 30dB
RL 51.8dBm

MKR -24.87dBm
891.2817MHz

10dB/



CENTER 891.3000MHz
*RBW 300Hz VBW 300Hz

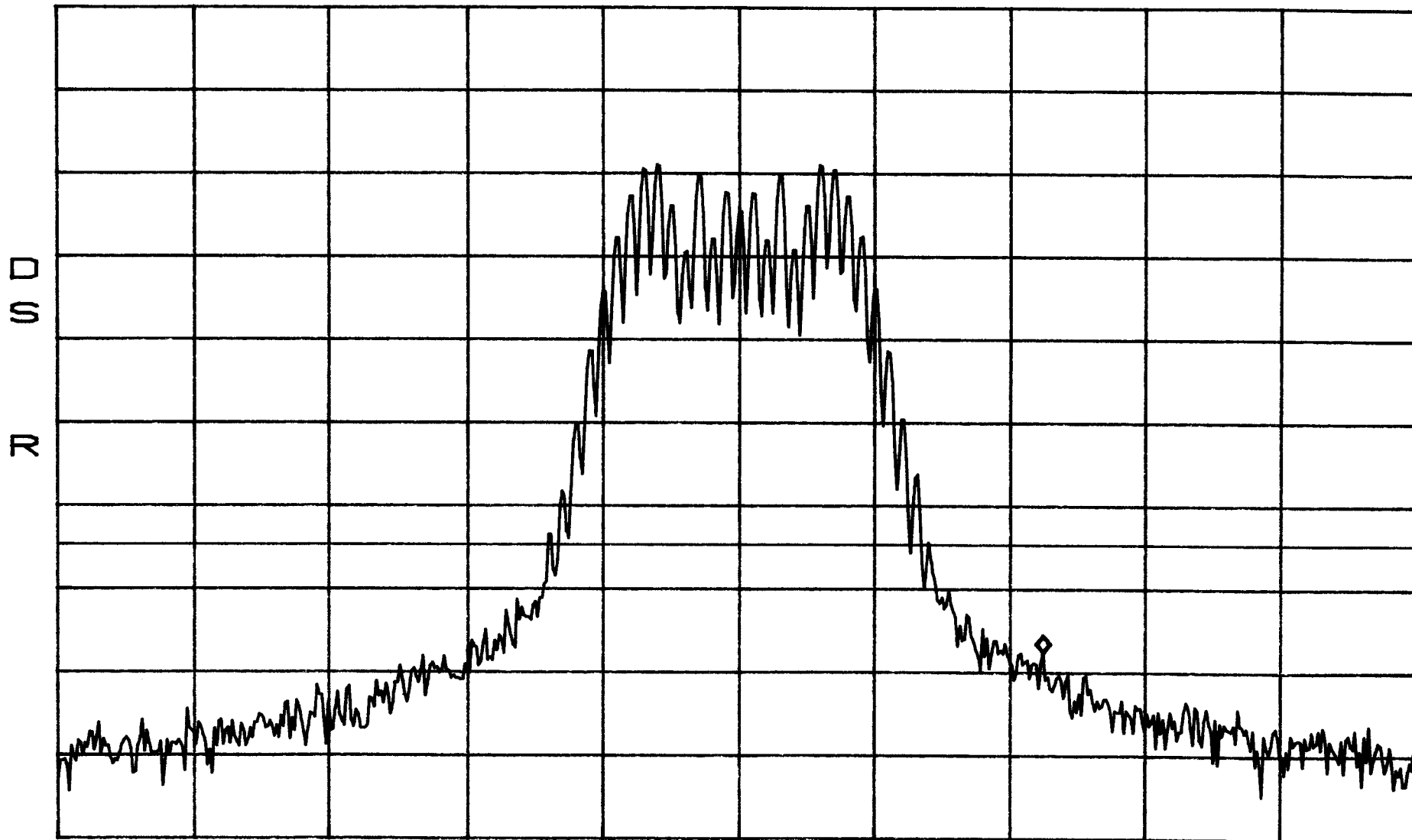
SPAN 100.0kHz
SWP 2.8sec

Conducted Emissions Band B
Band Edge
FM

*ATTEN 30dB
RL 51.8dBm

MKR -25.70dBm
880.2225MHz

10dB/



CENTER 880.2000MHz
*RBW 300Hz VBW 300Hz

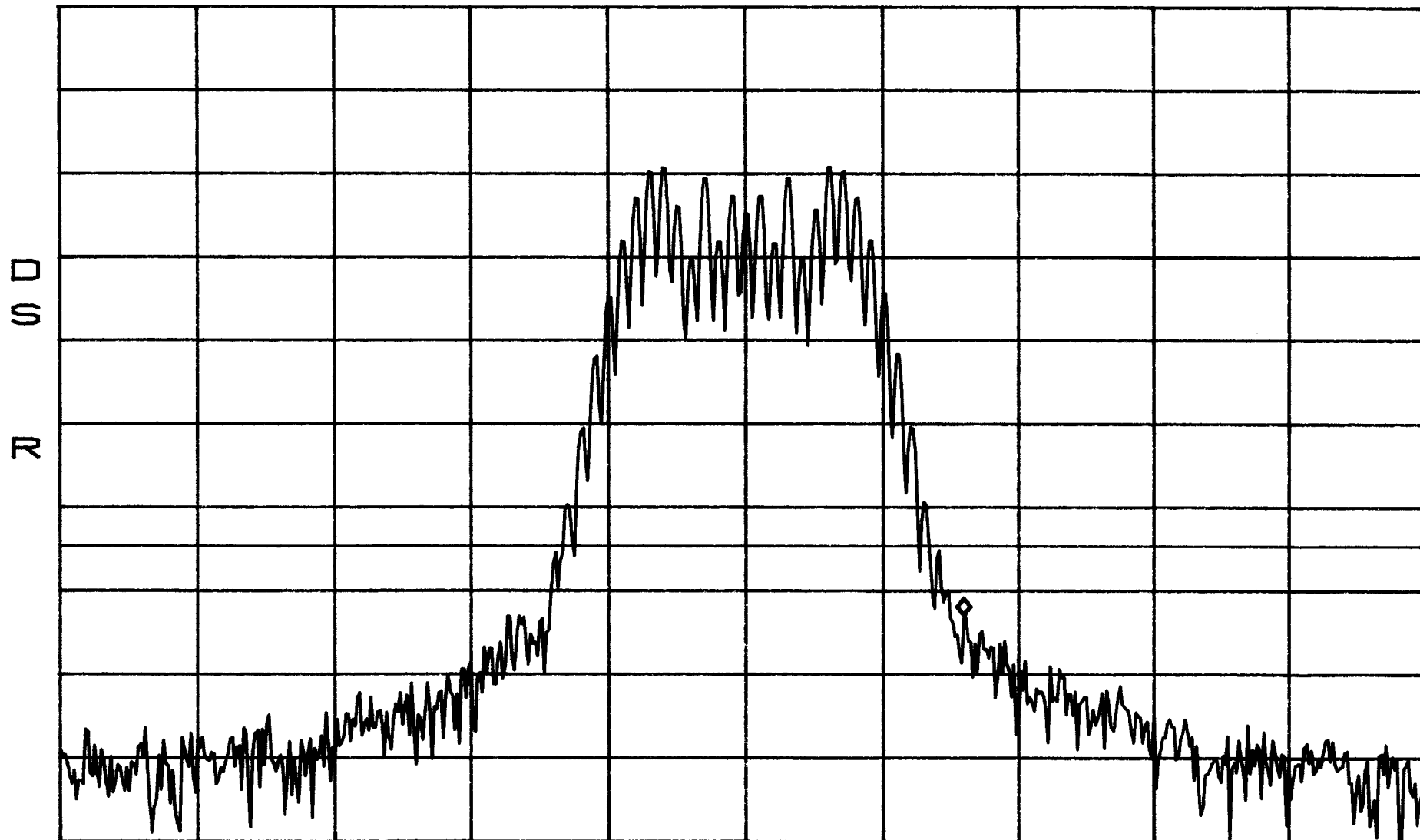
SPAN 100.0kHz
SWP 2.8sec

Conducted Emissions Band B
Band Edge
FM

*ATTN 30dB
RL 51.8dBm

MKR -21.03dBm
893.8160MHz

10dB/



CENTER 893.8000MHz
*RBW 300Hz VBW 300Hz

SPAN 100.0kHz
SWP 2.8sec

**Occupied Bandwidth Modulation Test for ADC Inc.
Digivance 800 MHz 20 Watt System
Model Numbers DGVL-116100SYS and DGVL-126100SYS.**

An input/output Occupied Bandwidth test was done with three different modulation types: FM (1 kHz @ 8 kHz deviation) TDMA, and CDMA. The purpose was to determine the amount of distortion added to different types of modulation schemes by the EUT. The following plots show input signals vs. output signals.

Results:

Pass (see plots)

Occupied Band Width
Fm IN

BAND A

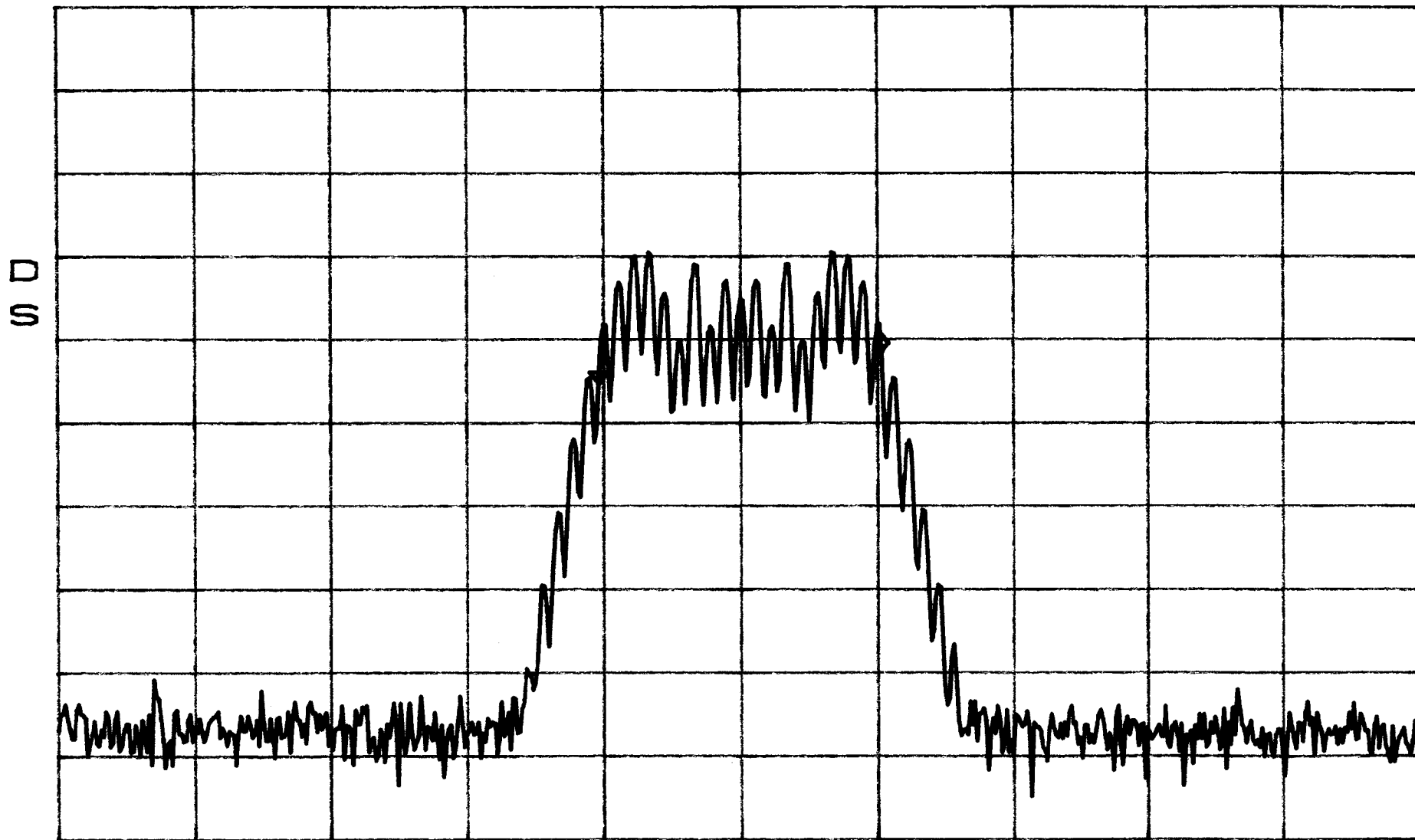
*ATTEN 10dB

Δ MKR 3.84dB

RL -20.0dBm

10dB/

18.60kHz



CENTER 880.00000MHz

SPAN 90.00kHz

*RBW 300Hz

*VBW 3.0kHz

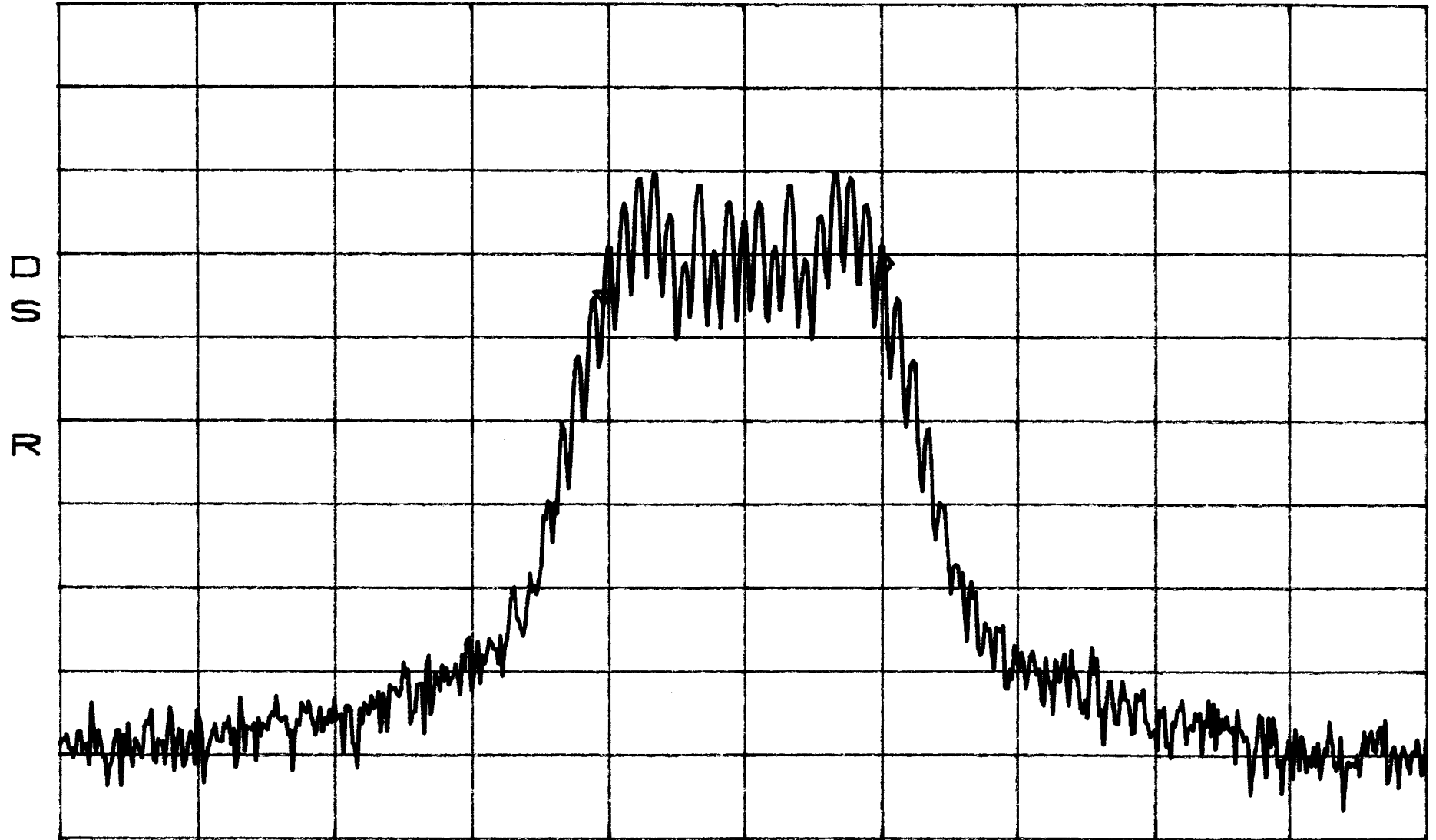
SWP 2.5sec

Occupied Bandwidth Band A
FM Out

*ATTEN 30dB
RL 51.8dBm

Δ MKR 3.83dB
18.60kHz

10dB/



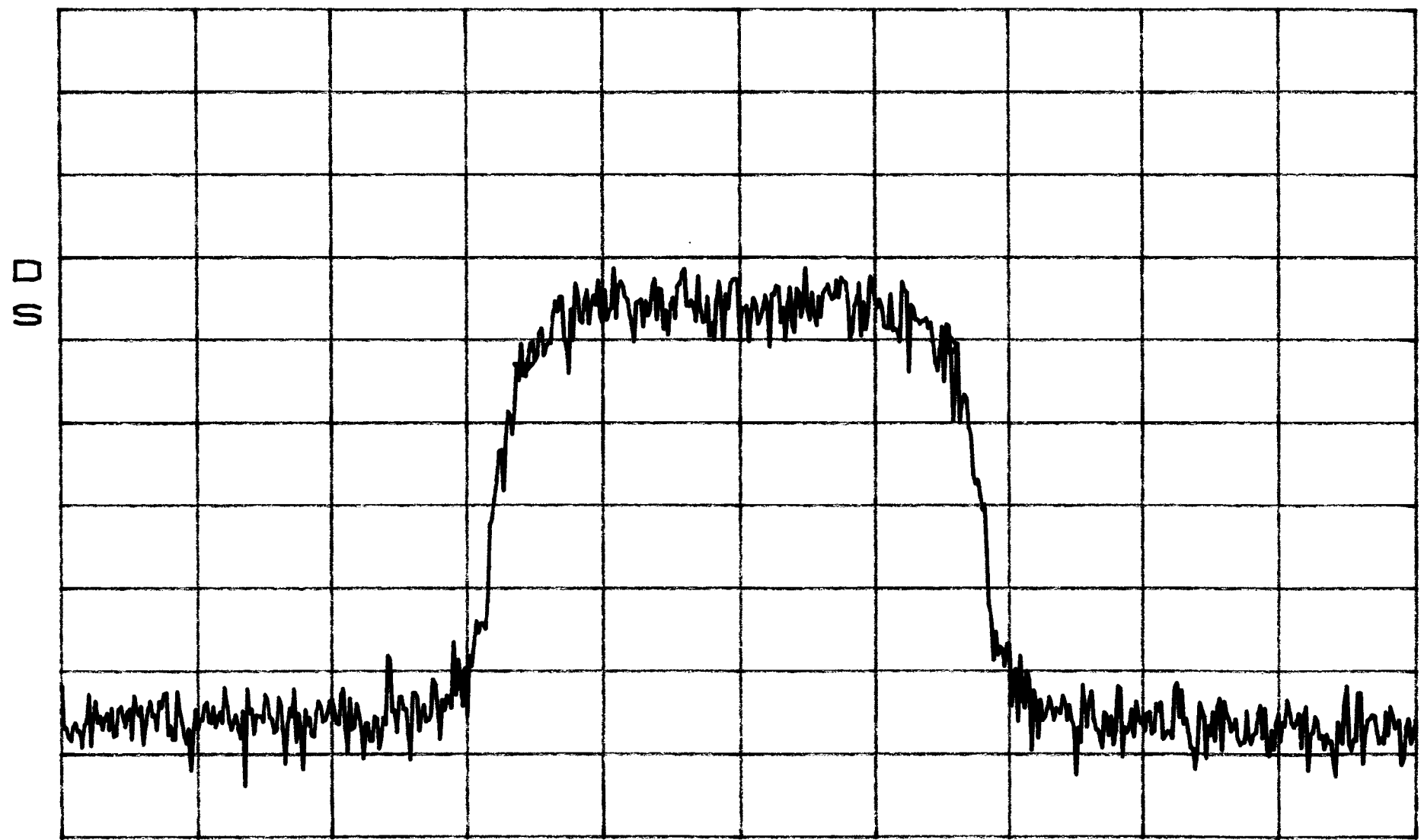
CENTER 880.00000MHz SPAN 90.00kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.5sec

Occupied Band width BAND A
TDMA IN

*ATTEN 10dB
RL -20.0dBm

10dB/

ΔMKR 2.50dB
28.35kHz



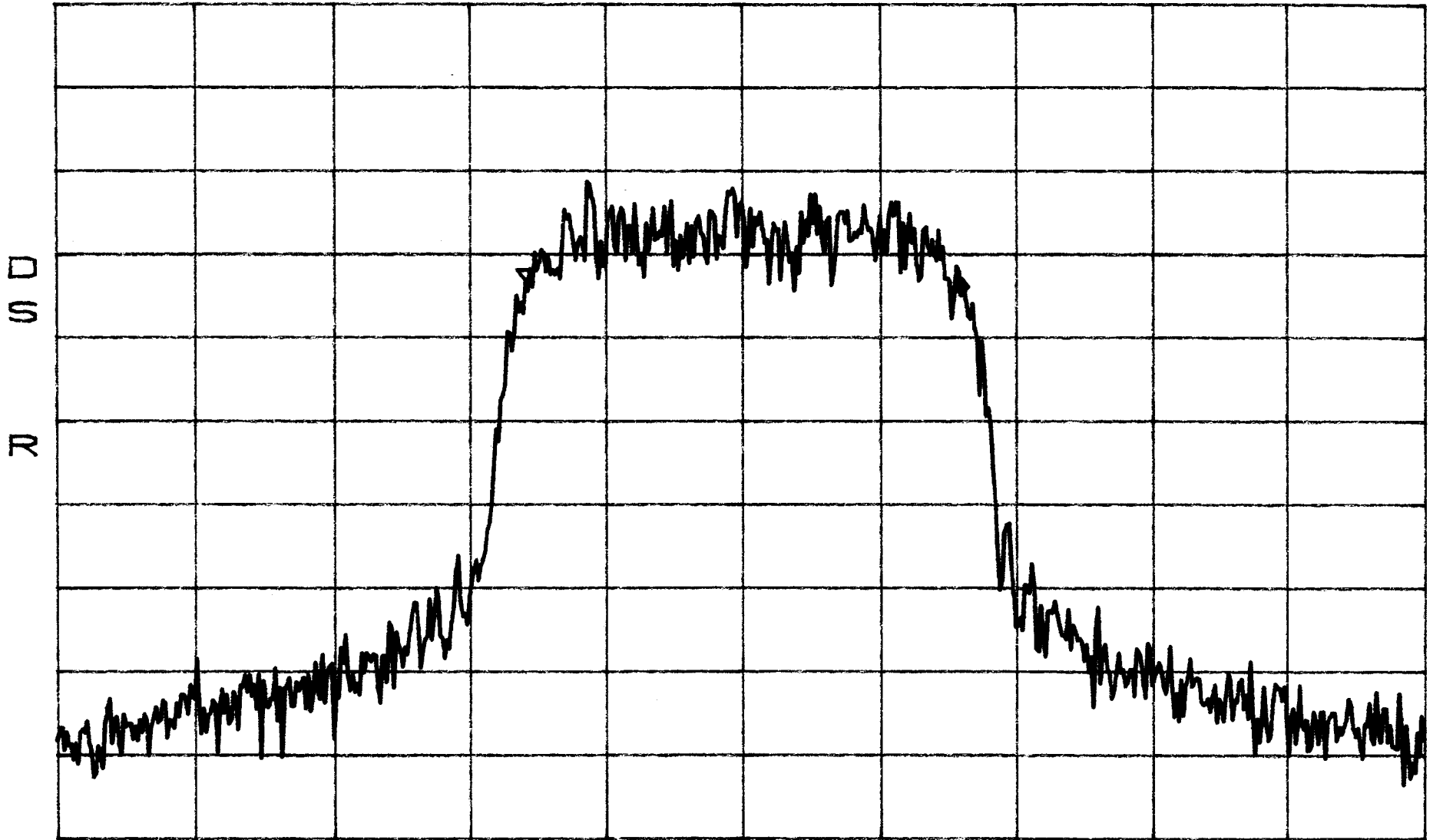
CENTER 880.00000MHz SPAN 90.00kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.5sec

Occupied Bandwidth Band A
TDMA OUT

*ATTEN 30dB
RL 51.8dBm

$\Delta MKR -1.66dB$
28.65kHz

10dB/

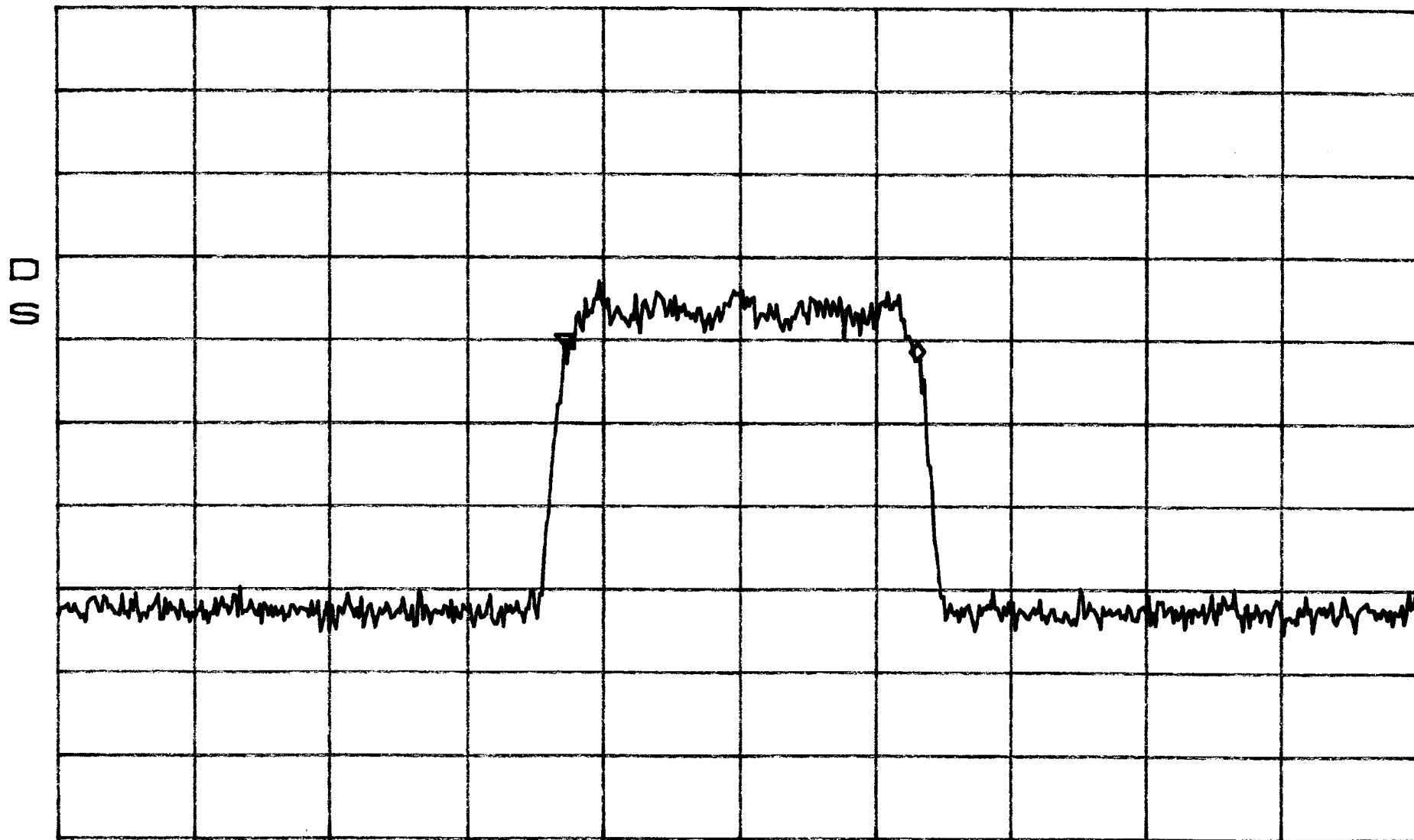


CENTER 880.00000MHz SPAN 90.00kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.5sec

Occupied BAND width BAND A
CDMA IN

*ATTEN 10dB
RL -20.0dBm

Δ MKR -1.66dB
1.292MHz



CENTER 880.000MHz
*RBW 10kHz *VBW 3.0kHz

SPAN 5.000MHz
SWP 420ms

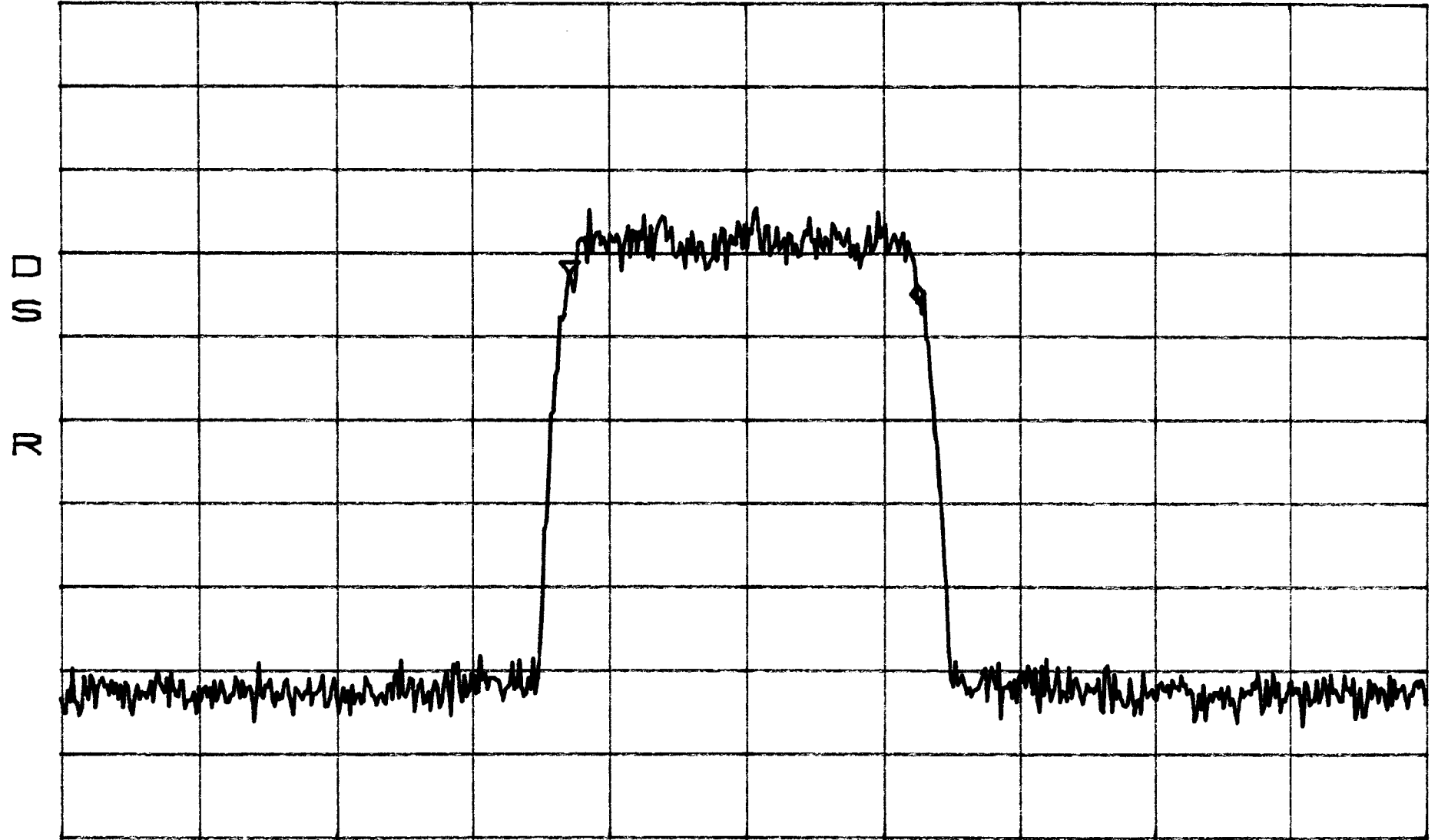
Occupied Bandwidth Band A

CDMA OUT

*ATTEN 30dB
RL 51.8dBm

ΔMKR -3.50dB
1.267MHz

10dB/



CENTER 880.000MHz SPAN 5.000MHz
*RBW 10kHz *VBW 3.0kHz SWP 420ms

Occupied Band Width
FM IN

BAND B

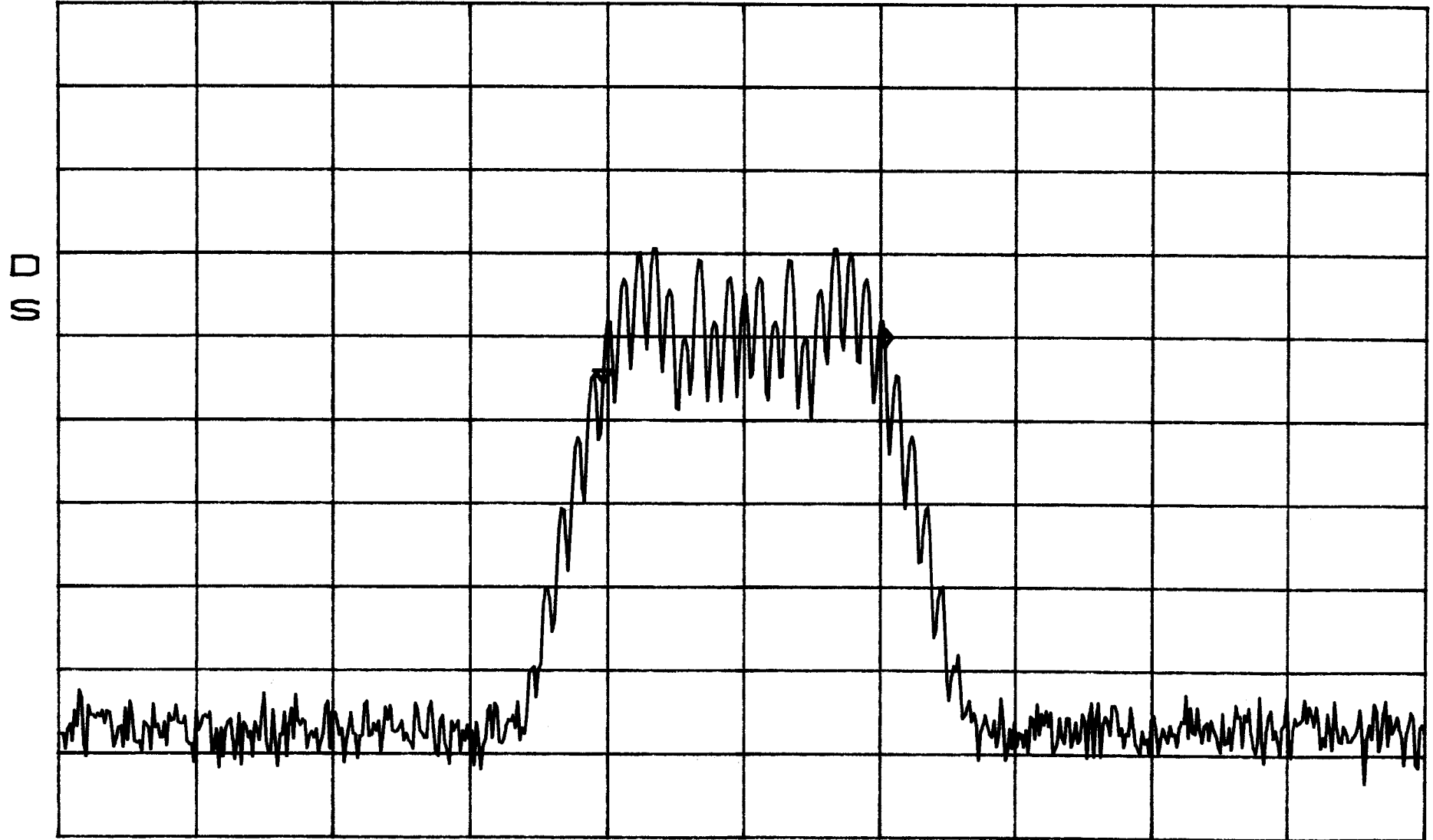
*ATTEN 10dB

Δ MKR 4.33dB

RL -20.0dBm

10dB/

18.60kHz



CENTER 887.00000MHz

SPAN 90.00kHz

*RBW 300Hz

*VBW 3.0kHz

SWP 2.5sec

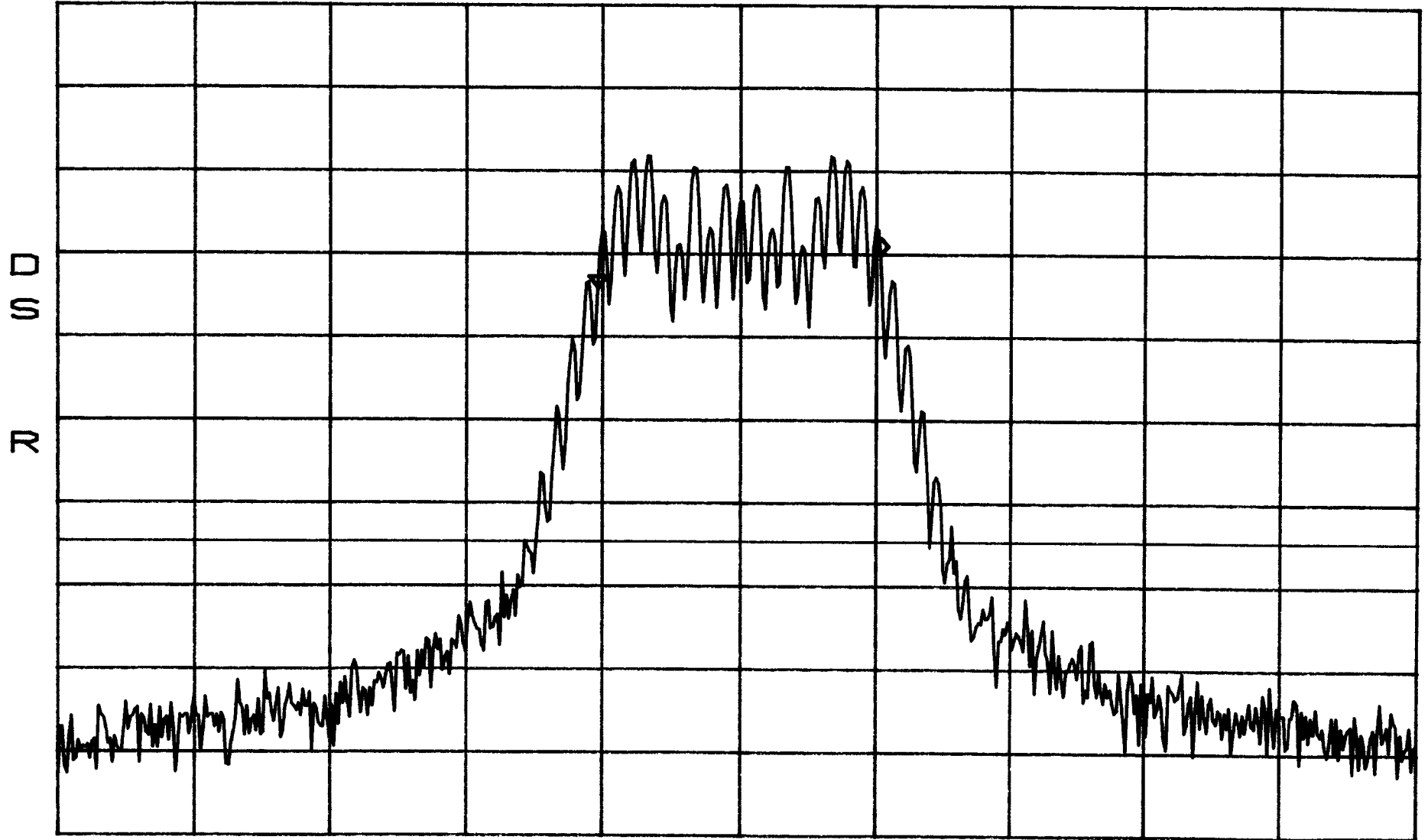
Occupied Band Width
FM OUT

BAND B

*ATTEN 30dB
BPOE
RL 51.8dBm

Δ MKR 4.00dB
18.60kHz

10dB/



CENTER 887.00000MHz

SPAN 90.00kHz

*RBW 300Hz

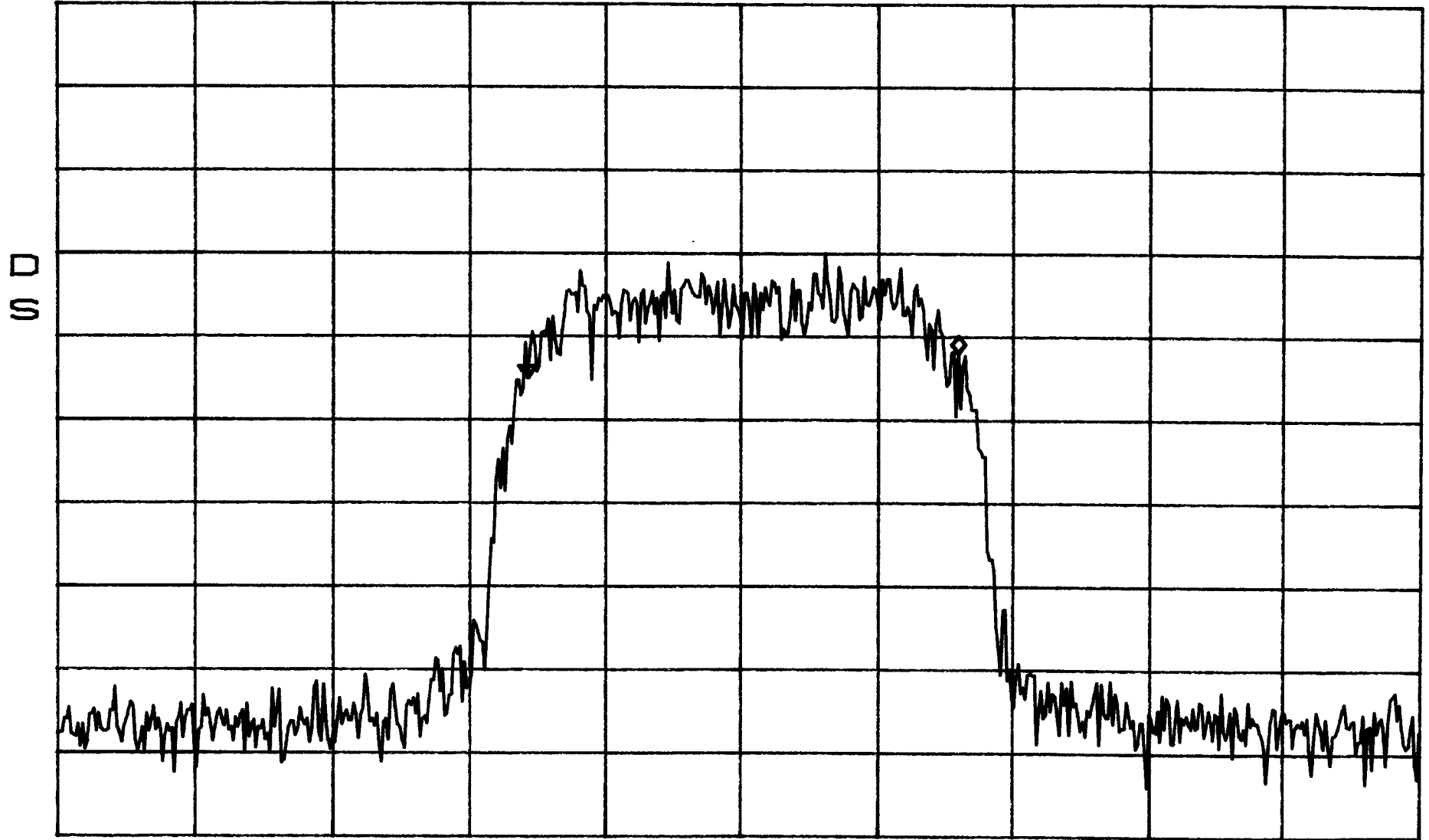
*VBW 3.0kHz

SWP 2.5sec

Occupied Band width BAND B
TDMA IN

*ATTEN 10dB
RL -20.0dBm

ΔMKR 3.00dB
28.50kHz



CENTER 887.00000MHz SPAN 90.00kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.5sec

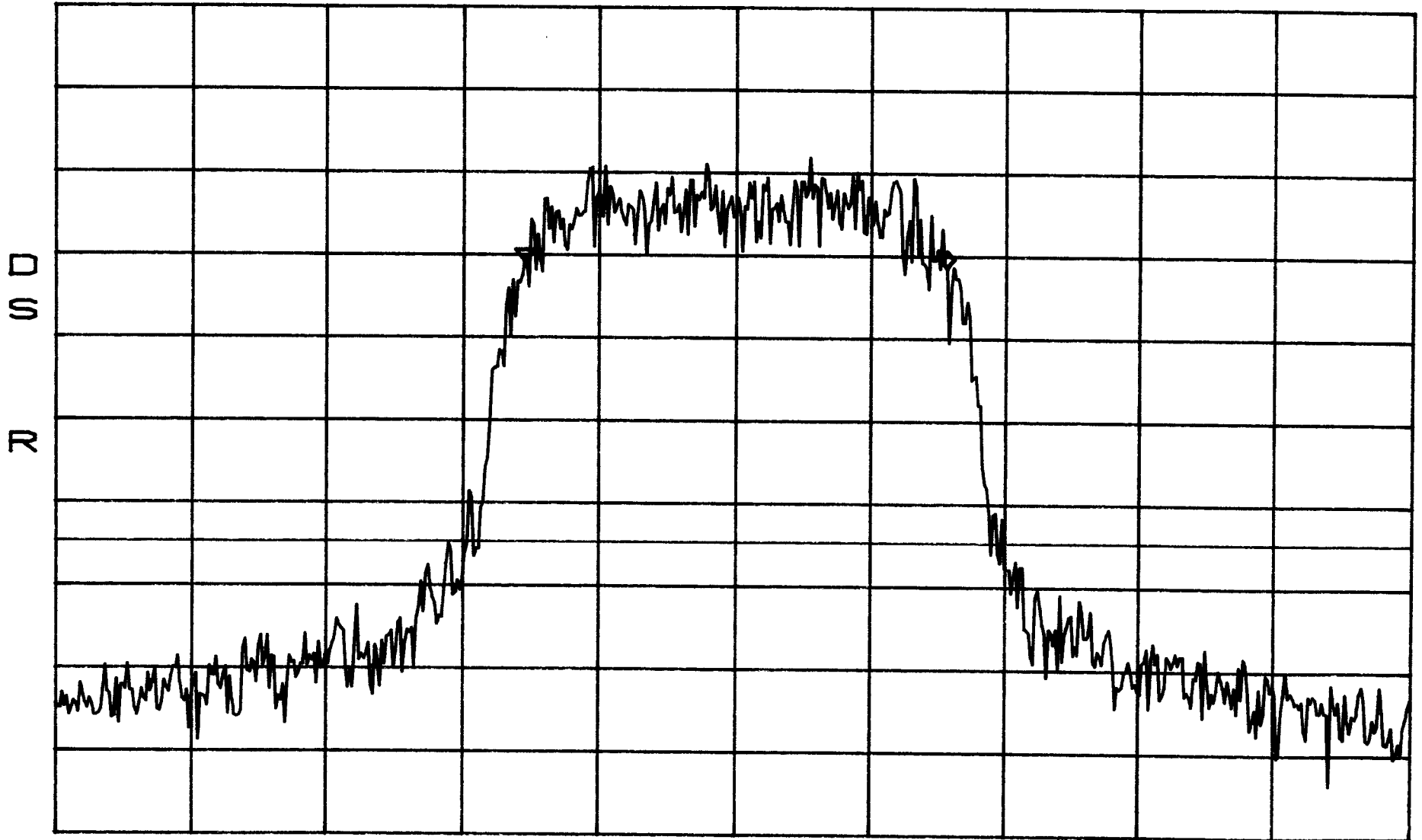
Occupied Band width
TDMA OUT

BAND B

*ATTEN 30dB
RL 51.8dBm

10dB/

Δ MKR -.66dB
28.05kHz

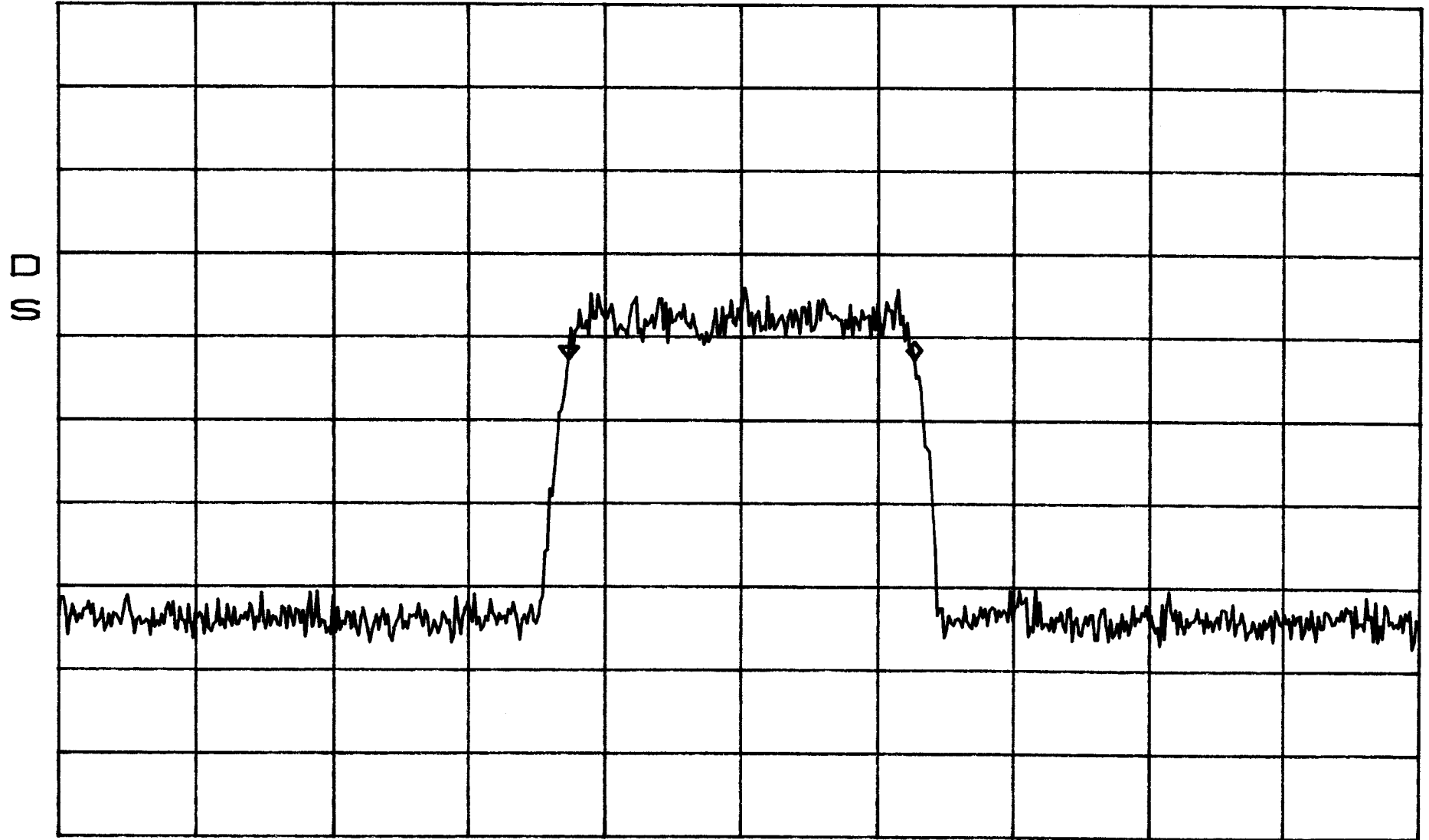


CENTER 887.00000MHz SPAN 90.00kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.5sec

Occupied BAND with BAND B
CDMA IN

*ATTEN 10dB
RL -20.0dBm

Δ MKR 0dB
1.267MHz



CENTER 887.000MHz
*RBW 10kHz *VBW 3.0kHz

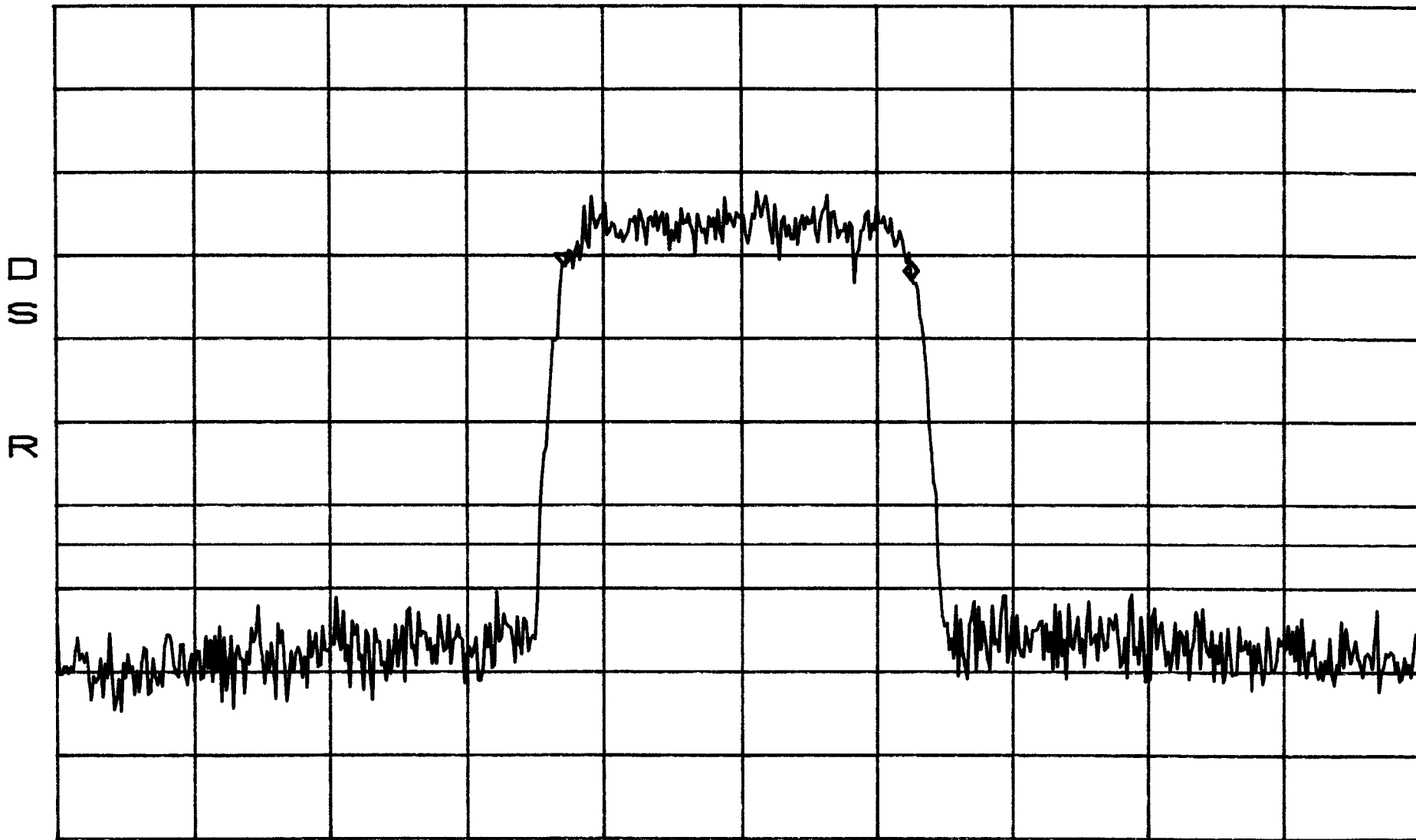
SPAN 5.000MHz
SWP 420ms

Occupied Band width BAND B
CDMA OUT

*ATTEN 30dB
RL 51.8dBm

10dB/

Δ MKR -1.66dB
1.267MHz



CENTER 887.000MHz

SPAN 5.000MHz

*RBW 10kHz

*VBW 3.0kHz

SWP 420ms

A radiated emission scan was also made with the EUT's antenna replaced with a termination to demonstrate case radiation compliance to the -13 dBm requirement at the 3 carrier frequencies. Radiated emissions from the EUT are measured in the frequency range of 30 to 9000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 10 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees. The field strength levels were measured per ANSI C63.4. The EUT is then replaced with a tuned dipole antenna (below 1 GHz) or horn antenna (above 1 GHz). The substitute antenna was placed in the same polarization as the test antenna. A signal generator was used to generate a signal level that matched the highest level measured from the EUT. The signal generator level minus the cable loss from the signal generator to the substitute antenna plus the substitute antenna gain equals the spurious power level. 2 case radiation emission scans were performed. The highest emission frequency from the two scans is listed below.

Run 1		
Frequency MHz	dBuV/m(from EUT)	Substitution power level - dBm
425.97	78.9	-20.0

Case Radiation data is on the following pages:

Radiated Electromagnetic Emissions



Test Report #: 0779 Run 01 Test Area: LTS 3m
 Test Method: N/A Test Date: 26-Feb-2003
 EUT Model #: DGVL-116100SYS EUT Power: 24VDC (60HZ/110VAC-POWER SUPPLY)
 EUT Serial #: _____ Temperature: 22 °C
 Manufacturer: ADC TELECOMM Relative Humidity: 24 %
 EUT Description: CELLULAR REPEATER Air Pressure: 99 kPa
 Notes: _____ Page: 1 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
LOW CHANNEL (881MHz)						
93.76	77.7 Qp	0.8 / 8.0 / 28.2	58.3	V / 1.0 / 0.0	N/A	N/A
77.19	69.5 Qp	0.7 / 7.9 / 28.2	49.9	V / 1.0 / 0.0	N/A	N/A
101.70	69.9 Qp	0.8 / 9.0 / 28.2	51.6	V / 1.0 / 0.0	N/A	N/A
106.41	63.4 Qp	0.9 / 9.3 / 28.2	45.4	V / 1.0 / 0.0	N/A	N/A
116.09	54.8 Qp	0.9 / 9.5 / 28.2	36.9	V / 1.0 / 0.0	N/A	N/A
130.49	57.0 Qp	0.9 / 8.4 / 28.2	38.1	V / 1.0 / 0.0	N/A	N/A
141.97	73.7 Qp	1.0 / 9.4 / 28.3	55.7	V / 1.0 / 0.0	N/A	N/A
206.41	52.6 Qp	1.2 / 10.9 / 28.2	36.5	V / 1.0 / 0.0	N/A	N/A
212.98	67.1 Qp	1.2 / 11.0 / 28.2	51.1	V / 1.0 / 0.0	N/A	N/A
283.97	77.5 Qp	1.5 / 12.9 / 28.3	63.6	V / 1.0 / 0.0	N/A	N/A
294.89	55.6 Qp	1.5 / 13.0 / 28.2	41.9	V / 1.0 / 0.0	N/A	N/A
309.65	51.2 Qp	1.6 / 13.3 / 28.2	37.9	V / 1.0 / 0.0	N/A	N/A
324.38	51.6 Qp	1.6 / 13.8 / 28.2	38.8	V / 1.0 / 0.0	N/A	N/A
354.98	52.0 Qp	1.7 / 15.2 / 28.2	40.7	V / 1.0 / 0.0	N/A	N/A
425.97	80.0 Qp	1.8 / 17.1 / 28.1	70.8	V / 1.0 / 0.0	N/A	N/A
496.97	65.6 Qp	2.0 / 17.4 / 28.1	56.9	V / 1.0 / 0.0	N/A	N/A
496.97	65.7 Qp	2.0 / 17.4 / 28.1	57.0	V / 1.0 / 0.0	N/A	N/A
567.97	59.4 Qp	2.2 / 18.9 / 28.1	52.3	V / 1.0 / 0.0	N/A	N/A
638.97	54.1 Qp	2.3 / 19.5 / 28.0	48.0	V / 1.0 / 0.0	N/A	N/A
709.97	61.5 Qp	2.4 / 20.9 / 28.0	56.8	V / 1.0 / 0.0	N/A	N/A
719.97	43.6 Qp	2.4 / 21.0 / 28.0	39.0	V / 1.0 / 0.0	N/A	N/A
780.97	52.1 Qp	2.7 / 21.4 / 27.9	48.4	V / 1.0 / 0.0	N/A	N/A
922.97	43.0 Qp	2.8 / 23.4 / 27.7	41.4	V / 1.0 / 0.0	N/A	N/A
1064.97	42.7 Qp	3.0 / 23.0 / 27.7	41.0	V / 1.0 / 0.0	N/A	N/A

Tested by: RMJ

Printed

Signature

Reviewed by: TKS

Printed

Signature

Radiated Electromagnetic Emissions



Test Report #: 0779 Run 01 Test Area: LTS 3m
 Test Method: N/A Test Date: 26-Feb-2003
 EUT Model #: DGVL-116100SYS EUT Power: 24VDC (60HZ/110VAC-POWER SUPPLY)
 EUT Serial #: _____
 Manufacturer: ADC TELECOMM
 EUT Description: CELLULAR REPEATER
 Notes: _____

Temperature: 22 °C
 Relative Humidity: 24 %
 Air Pressure: 99 kPa
 Page: 2 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1135.97	45.7 Qp	3.1 / 23.8 / 27.7	44.9	V / 1.0 / 0.0	N/A	N/A
1206.97	45.3 Qp	3.1 / 24.6 / 27.7	45.3	V / 1.0 / 0.0	N/A	N/A
1277.96	45.5 Qp	3.2 / 25.2 / 27.8	46.1	V / 1.0 / 0.0	N/A	N/A
1761.98	50.0 Qp	3.9 / 28.9 / 27.9	54.8	V / 1.0 / 0.0	N/A	N/A
1845.96	43.9 Qp	3.9 / 28.5 / 27.8	48.5	V / 1.0 / 0.0	N/A	N/A
141.97	76.0 Qp	1.0 / 9.4 / 28.3	58.1	V / 1.0 / 90.0	N/A	N/A
354.98	63.6 Qp	1.7 / 15.2 / 28.2	52.2	V / 1.0 / 90.0	N/A	N/A
496.97	66.0 Qp	2.0 / 17.4 / 28.1	57.3	V / 1.0 / 90.0	N/A	N/A
719.97	49.5 Qp	2.4 / 21.0 / 28.0	44.9	V / 1.0 / 90.0	N/A	N/A
922.97	47.0 Qp	2.8 / 23.4 / 27.7	45.5	V / 1.0 / 90.0	N/A	N/A
1277.96	45.4 Qp	3.2 / 25.2 / 27.8	46.0	V / 1.0 / 90.0	N/A	N/A
141.97	78.5 Qp	1.0 / 9.4 / 28.3	60.6	V / 1.0 / 180.0	N/A	N/A
425.97	81.0 Qp	1.8 / 17.1 / 28.1	71.8	V / 1.0 / 180.0	N/A	N/A
567.97	62.0 Qp	2.2 / 18.9 / 28.1	54.9	V / 1.0 / 180.0	N/A	N/A
638.97	57.4 Qp	2.3 / 19.5 / 28.0	51.2	V / 1.0 / 180.0	N/A	N/A
709.97	65.5 Qp	2.4 / 20.9 / 28.0	60.9	V / 1.0 / 180.0	N/A	N/A
780.97	57.1 Qp	2.7 / 21.4 / 27.9	53.4	V / 1.0 / 180.0	N/A	N/A
1064.97	44.2 Qp	3.0 / 23.0 / 27.7	42.6	V / 1.0 / 180.0	N/A	N/A
1277.96	47.6 Qp	3.2 / 25.2 / 27.8	48.2	V / 1.0 / 180.0	N/A	N/A
1761.98	50.3 Qp	3.9 / 28.9 / 27.9	55.1	V / 1.0 / 180.0	N/A	N/A
77.26	73.8 Qp	0.7 / 7.9 / 28.2	54.3	V / 1.0 / 270.0	N/A	N/A
206.41	55.5 Qp	1.2 / 10.9 / 28.2	39.3	V / 1.0 / 270.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 01	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-116100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	3 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
212.98	70.7 Qp	1.2 / 11.0 / 28.2	54.7	V / 1.0 / 270.0	N/A	N/A
425.97	83.8 Qp	1.8 / 17.1 / 28.1	74.6	V / 1.0 / 270.0	N/A	N/A
567.97	62.3 Qp	2.2 / 18.9 / 28.1	55.3	V / 1.0 / 270.0	N/A	N/A
638.97	60.1 Qp	2.3 / 19.5 / 28.0	54.0	V / 1.0 / 270.0	N/A	N/A
1206.97	45.9 Qp	3.1 / 24.6 / 27.7	45.8	V / 1.0 / 270.0	N/A	N/A
MAXIMIZED.						
425.97	88.0 Qp	1.8 / 17.1 / 28.1	78.9	V / 1.2 / 286.0	N/A	N/A
283.97	76.9 Qp	1.5 / 12.9 / 28.3	63.0	V / 1.0 / 0.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
93.76	78.1 Qp	0.8 / 8.0 / 28.2	58.7	H / 3.0 / 0.0	N/A	N/A
101.70	73.8 Qp	0.8 / 9.0 / 28.2	55.4	H / 3.0 / 0.0	N/A	N/A
106.41	63.9 Qp	0.9 / 9.3 / 28.2	45.9	H / 3.0 / 0.0	N/A	N/A
94.71	80.1 Qp	0.8 / 8.2 / 28.2	60.9	H / 3.0 / 0.0	N/A	N/A
77.06	70.5 Qp	0.7 / 8.0 / 28.2	50.9	H / 3.0 / 180.0	N/A	N/A
354.97	65.8 Qp	1.7 / 15.2 / 28.2	54.5	H / 3.0 / 180.0	N/A	N/A
77.09	73.4 Qp	0.7 / 7.9 / 28.2	53.8	H / 3.0 / 270.0	N/A	N/A
77.34	73.7 Qp	0.8 / 7.9 / 28.2	54.1	H / 3.0 / 270.0	N/A	N/A
MAXIMIZED.						
94.71	81.7 Qp	0.8 / 8.2 / 28.2	62.4	H / 3.0 / 213.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: 0779 Run 01 Test Area: LTS 3m
 Test Method: N/A Test Date: 26-Feb-2003
 EUT Model #: DGVL-116100SYS EUT Power: 24VDC (60HZ/110VAC-POWER SUPPLY)
 EUT Serial #: _____ Temperature: 22 °C
 Manufacturer: ADC TELECOMM Relative Humidity: 24 %
 EUT Description: CELLULAR REPEATER Air Pressure: 99 kPa
 Notes: _____ Page: 4 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
93.68	80.2 Qp	0.8 / 8.0 / 28.2	60.9	H / 4.0 / 213.0	N/A	N/A
101.63	74.0 Qp	0.8 / 9.0 / 28.2	55.7	H / 3.1 / 229.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
MID CHANNEL (887MHz)						
77.21	73.2 Qp	0.7 / 7.9 / 28.2	53.7	V / 1.0 / 0.0	N/A	N/A
496.97	67.8 Qp	2.0 / 17.4 / 28.1	59.1	V / 1.0 / 0.0	N/A	N/A
1206.97	47.2 Qp	3.1 / 24.6 / 27.7	47.2	V / 1.0 / 0.0	N/A	N/A
77.21	73.7 Qp	0.7 / 7.9 / 28.2	54.2	V / 1.0 / 0.0	N/A	N/A
77.20	74.6 Qp	0.7 / 7.9 / 28.2	55.1	V / 1.0 / 90.0	N/A	N/A
116.09	59.2 Qp	0.9 / 9.5 / 28.2	41.4	V / 1.0 / 90.0	N/A	N/A
77.19	75.0 Qp	0.7 / 7.9 / 28.2	55.5	V / 1.0 / 270.0	N/A	N/A
MAXIMIZED.						
496.97	68.2 Qp	2.0 / 17.4 / 28.1	59.6	V / 1.0 / 0.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
NO NEW OR HIGHER EMISSIONS FOUND WITH HORIZONTAL POLARIZATION AT ALL AZIMUTHS.						
HIGH CHANNEL (893MHz)						
106.36	67.9 Qp	0.9 / 9.3 / 28.2	49.9	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: 0779 Run 01 Test Area: LTS 3m
 Test Method: N/A Test Date: 26-Feb-2003
 EUT Model #: DGVL-116100SYS EUT Power: 24VDC (60HZ/110VAC-POWER SUPPLY)
 EUT Serial #: _____ Temperature: 22 °C
 Manufacturer: ADC TELECOMM Relative Humidity: 24 %
 EUT Description: CELLULAR REPEATER Air Pressure: 99 kPa
 Notes: _____ Page: 5 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
77.26	77.5 Qp	0.7 / 7.9 / 28.2	57.9	V / 1.0 / 90.0	N/A	N/A
77.26	77.6 Qp	0.7 / 7.9 / 28.2	58.1	V / 1.0 / 90.0	N/A	N/A
MAXIMIZED.						
77.27	77.7 Qp	0.7 / 7.9 / 28.2	58.2	V / 1.0 / 127.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
NO NEW OR HIGHER EMISSIONS FOUND WITH HORIZONTAL POLARIZATION AT ALL AZIMUTHS.						
2678.98	42.2 Qp	4.8 / 31.1 / 27.6	50.6	V / 1.0 / 90.0	N/A	N/A
2129.96	44.7 Qp	4.3 / 29.9 / 27.5	51.4	V / 1.0 / 90.0	N/A	N/A
2839.95	35.6 Qp	5.0 / 31.4 / 27.6	44.4	V / 1.0 / 270.0	N/A	N/A
2981.95	36.8 Qp	5.1 / 31.7 / 27.5	46.0	V / 1.0 / 270.0	N/A	N/A
MAXIMIZED.						
2129.96	44.7 Qp	4.3 / 29.9 / 27.5	51.4	V / 1.0 / 82.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
NO NEW OR HIGHER EMISSIONS FOUND WITH HORIZONTAL POLARIZATION AT ALL AZIMUTHS.						

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 01	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-116100SYS	EUT Power:	24VDC (60HZ/110VAC- POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	6 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
MID CHANNEL (887MHz)						
LOW CHANNEL (881MHz)						
4319.94	40.4 Qp	6.4 / 33.9 / 41.3	39.3	V / 1.0 / 0.0	N/A	N/A
4827.93	37.2 Qp	6.8 / 34.6 / 41.2	37.4	V / 1.0 / 0.0	N/A	N/A
5679.94	32.4 Qp	7.5 / 36.2 / 40.9	35.3	V / 1.0 / 90.0	N/A	N/A
6479.78	31.8 Qp	8.5 / 36.1 / 40.9	35.5	V / 1.0 / 90.0	N/A	N/A
6479.78	37.0 Qp	8.5 / 36.1 / 40.9	40.7	V / 1.0 / 180.0	N/A	N/A
MID CHANNEL (887MHz)						
5679.94	34.9 Qp	7.5 / 36.2 / 40.9	37.8	H / 1.0 / 180.0	N/A	N/A
HIGH CHANNEL (893)						
4319.94	41.3 Qp	6.4 / 33.9 / 41.3	40.2	H / 1.0 / 0.0	N/A	N/A
MAXIMIZED.						
4319.94	40.6 Qp	6.4 / 33.9 / 41.3	39.5	H / 1.0 / 220.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
END OF SCAN 30 - 9000MHZ.						

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 01	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-116100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	7 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
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***** MEASUREMENT SUMMARY PAGE 1*****						
77.09	73.4 Qp	0.7 / 7.9 / 28.2	53.8	H / 3.0 / 270.0	N/A	N/A
77.19	75.0 Qp	0.7 / 7.9 / 28.2	55.5	V / 1.0 / 270.0	N/A	N/A
77.27	77.7 Qp	0.7 / 7.9 / 28.2	58.2	V / 1.0 / 127.0	N/A	N/A
77.34	73.7 Qp	0.8 / 7.9 / 28.2	54.1	H / 3.0 / 270.0	N/A	N/A
93.68	80.2 Qp	0.8 / 8.0 / 28.2	60.9	H / 4.0 / 213.0	N/A	N/A
93.76	78.1 Qp	0.8 / 8.0 / 28.2	58.7	H / 3.0 / 0.0	N/A	N/A
94.71	81.7 Qp	0.8 / 8.2 / 28.2	62.4	H / 3.0 / 213.0	N/A	N/A
101.63	74.0 Qp	0.8 / 9.0 / 28.2	55.7	H / 3.1 / 229.0	N/A	N/A
101.70	73.8 Qp	0.8 / 9.0 / 28.2	55.4	H / 3.0 / 0.0	N/A	N/A
106.36	67.9 Qp	0.9 / 9.3 / 28.2	49.9	V / 1.0 / 0.0	N/A	N/A
116.09	59.2 Qp	0.9 / 9.5 / 28.2	41.4	V / 1.0 / 90.0	N/A	N/A
130.49	57.0 Qp	0.9 / 8.4 / 28.2	38.1	V / 1.0 / 0.0	N/A	N/A
141.97	78.5 Qp	1.0 / 9.4 / 28.3	60.6	V / 1.0 / 180.0	N/A	N/A
206.41	55.5 Qp	1.2 / 10.9 / 28.2	39.3	V / 1.0 / 270.0	N/A	N/A
212.98	70.7 Qp	1.2 / 11.0 / 28.2	54.7	V / 1.0 / 270.0	N/A	N/A
283.97	77.5 Qp	1.5 / 12.9 / 28.3	63.6	V / 1.0 / 0.0	N/A	N/A
294.89	55.6 Qp	1.5 / 13.0 / 28.2	41.9	V / 1.0 / 0.0	N/A	N/A
309.65	51.2 Qp	1.6 / 13.3 / 28.2	37.9	V / 1.0 / 0.0	N/A	N/A
324.38	51.6 Qp	1.6 / 13.8 / 28.2	38.8	V / 1.0 / 0.0	N/A	N/A
354.97	65.8 Qp	1.7 / 15.2 / 28.2	54.5	H / 3.0 / 180.0	N/A	N/A
425.97	88.0 Qp	1.8 / 17.1 / 28.1	78.9	V / 1.2 / 286.0	N/A	N/A
496.97	68.2 Qp	2.0 / 17.4 / 28.1	59.6	V / 1.0 / 0.0	N/A	N/A
567.97	62.3 Qp	2.2 / 18.9 / 28.1	55.3	V / 1.0 / 270.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 01	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-116100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	8 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
***** MEASUREMENT SUMMARY PAGE 2*****						
638.97	60.1 Qp	2.3 / 19.5 / 28.0	54.0	V / 1.0 / 270.0	N/A	N/A
709.97	65.5 Qp	2.4 / 20.9 / 28.0	60.9	V / 1.0 / 180.0	N/A	N/A
719.97	49.5 Qp	2.4 / 21.0 / 28.0	44.9	V / 1.0 / 90.0	N/A	N/A
780.97	57.1 Qp	2.7 / 21.4 / 27.9	53.4	V / 1.0 / 180.0	N/A	N/A
922.97	47.0 Qp	2.8 / 23.4 / 27.7	45.5	V / 1.0 / 90.0	N/A	N/A
1064.97	44.2 Qp	3.0 / 23.0 / 27.7	42.6	V / 1.0 / 180.0	N/A	N/A
1135.97	45.7 Qp	3.1 / 23.8 / 27.7	44.9	V / 1.0 / 0.0	N/A	N/A
1206.97	47.2 Qp	3.1 / 24.6 / 27.7	47.2	V / 1.0 / 0.0	N/A	N/A
1277.96	47.6 Qp	3.2 / 25.2 / 27.8	48.2	V / 1.0 / 180.0	N/A	N/A
1761.98	50.3 Qp	3.9 / 28.9 / 27.9	55.1	V / 1.0 / 180.0	N/A	N/A
1845.96	43.9 Qp	3.9 / 28.5 / 27.8	48.5	V / 1.0 / 0.0	N/A	N/A
2129.96	44.7 Qp	4.3 / 29.9 / 27.5	51.4	V / 1.0 / 82.0	N/A	N/A
2678.98	42.2 Qp	4.8 / 31.1 / 27.6	50.6	V / 1.0 / 90.0	N/A	N/A
2839.95	35.6 Qp	5.0 / 31.4 / 27.6	44.4	V / 1.0 / 270.0	N/A	N/A
2981.95	36.8 Qp	5.1 / 31.7 / 27.5	46.0	V / 1.0 / 270.0	N/A	N/A
4319.94	41.3 Qp	6.4 / 33.9 / 41.3	40.2	H / 1.0 / 0.0	N/A	N/A
4827.93	37.2 Qp	6.8 / 34.6 / 41.2	37.4	V / 1.0 / 0.0	N/A	N/A
5679.94	34.9 Qp	7.5 / 36.2 / 40.9	37.8	H / 1.0 / 180.0	N/A	N/A
6479.78	37.0 Qp	8.5 / 36.1 / 40.9	40.7	V / 1.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 02	Test Area:	LTS 3m		
Test Method:	FCC PART-22	Test Date:	26-Feb-2003		
EUT Model #:	DGV L-126100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	1 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
LOW CHANNEL (870MHz)						
2129.96	36.9 Qp	4.3 / 29.9 / 27.5	43.5	V / 1.0 / 0.0	N/A	N/A
2678.98	27.1 Qp	4.8 / 31.0 / 27.6	35.4	V / 1.0 / 0.0	N/A	N/A
2839.95	37.6 Qp	5.0 / 31.2 / 27.6	46.3	V / 1.0 / 0.0	N/A	N/A
2981.95	32.9 Qp	5.1 / 31.5 / 27.5	42.0	V / 1.0 / 0.0	N/A	N/A
2129.96	42.1 Qp	4.3 / 29.9 / 27.5	48.8	V / 1.0 / 90.0	N/A	N/A
2981.95	37.9 Qp	5.1 / 31.5 / 27.5	47.0	V / 1.0 / 90.0	N/A	N/A
2839.95	37.8 Qp	5.0 / 31.2 / 27.6	46.5	V / 1.0 / 180.0	N/A	N/A
2129.96	42.3 Qp	4.3 / 29.9 / 27.5	49.0	V / 1.0 / 270.0	N/A	N/A
MAXIMIZED.						
2129.96	46.6 Qp	4.3 / 29.9 / 27.5	53.3	V / 1.0 / 89.0	N/A	N/A
2981.95	38.0 Qp	5.1 / 31.5 / 27.5	47.1	V / 1.3 / 300.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
2839.95	38.2 Qp	5.0 / 31.2 / 27.6	46.9	H / 1.0 / 180.0	N/A	N/A
MAXIMIZED.						
2839.95	40.1 Qp	5.0 / 31.2 / 27.6	48.7	H / 1.0 / 160.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 02	Test Area:	LTS 3m		
Test Method:	FCC PART-22	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-126100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	2 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
4319.94	38.0 Qp	6.4 / 33.8 / 41.3	36.8	V / 1.0 / 0.0	N/A	N/A
4827.93	38.1 Qp	6.8 / 34.4 / 41.2	38.0	V / 1.0 / 0.0	N/A	N/A
5679.94	34.5 Qp	7.5 / 36.2 / 40.9	37.4	V / 1.0 / 0.0	N/A	N/A
6479.78	35.1 Qp	8.5 / 36.4 / 40.9	39.2	V / 1.0 / 0.0	N/A	N/A
4319.94	40.1 Qp	6.4 / 33.8 / 41.3	38.9	V / 1.0 / 180.0	N/A	N/A
MAXIMIZED.						
6479.78	38.9 Qp	8.5 / 36.4 / 40.9	42.9	V / 1.0 / 195.0	N/A	N/A
4319.94	42.8 Qp	6.4 / 33.8 / 41.3	41.6	V / 1.0 / 195.0	N/A	N/A
4827.93	38.1 Qp	6.8 / 34.4 / 41.2	38.0	V / 1.0 / 0.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
5679.94	36.1 Qp	7.5 / 36.2 / 40.9	39.0	H / 1.0 / 0.0	N/A	N/A
6479.78	40.1 Qp	8.5 / 36.4 / 40.9	44.1	H / 1.0 / 90.0	N/A	N/A
MAXIMIZED.						
6479.78	39.7 Qp	8.5 / 36.4 / 40.9	43.7	H / 1.0 / 90.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
MID CHANNEL (880MHz)						

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 02	Test Area:	LTS 3m		
Test Method:	FCC PART-22	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-126100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	3 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
2129.96	35.5 Qp	4.3 / 29.9 / 27.5	42.1	V / 1.0 / 0.0	N/A	N/A
2678.98	27.2 Qp	4.8 / 31.0 / 27.6	35.4	V / 1.0 / 0.0	N/A	N/A
2839.95	35.6 Qp	5.0 / 31.2 / 27.6	44.3	V / 1.0 / 0.0	N/A	N/A
2981.95	31.6 Qp	5.1 / 31.5 / 27.5	40.6	V / 1.0 / 0.0	N/A	N/A
MAXIMIZED.						
2839.95	40.1 Qp	5.0 / 31.2 / 27.6	48.7	V / 1.0 / 0.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
2839.95	40.8 Qp	5.0 / 31.2 / 27.6	49.5	H / 1.0 / 0.0	N/A	N/A
MAXIMIZED.						
2839.95	41.1 Qp	5.0 / 31.2 / 27.6	49.8	H / 1.0 / 0.0	N/A	N/A
MAXED AND ROTATED EUT 360 DEGREES.						
HIGH CHANNEL (891MHz)						
77.19	71.0 Qp	0.7 / 7.9 / 28.2	51.5	V / 1.0 / 0.0	N/A	N/A
77.20	72.1 Qp	0.7 / 7.9 / 28.2	52.6	V / 1.0 / 0.0	N/A	N/A
77.39	71.7 Qp	0.8 / 7.9 / 28.2	52.1	V / 1.0 / 0.0	N/A	N/A
93.82	64.9 Qp	0.8 / 8.0 / 28.2	45.5	V / 1.0 / 0.0	N/A	N/A
94.71	56.6 Qp	0.8 / 8.2 / 28.2	37.4	V / 1.0 / 0.0	N/A	N/A
101.53	74.2 Qp	0.8 / 9.0 / 28.2	55.8	V / 1.0 / 0.0	N/A	N/A
116.20	58.0 Qp	0.9 / 9.5 / 28.2	40.1	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: 0779 Run 02 Test Area: LTS 3m
 Test Method: FCC PART-22 Test Date: 26-Feb-2003
 EUT Model #: DGVL-126100SYS EUT Power: 24VDC (60HZ/110VAC-POWER SUPPLY)
 EUT Serial #: _____
 Manufacturer: ADC TELECOMM
 EUT Description: CELLULAR REPEATER
 Notes: _____

Temperature: 22 °C
 Relative Humidity: 24 %
 Air Pressure: 99 kPa
 Page: 4 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
116.20	58.1 Qp	0.9 / 9.5 / 28.2	40.3	V / 1.0 / 0.0	N/A	N/A
130.49	52.9 Qp	0.9 / 8.4 / 28.2	34.0	V / 1.0 / 0.0	N/A	N/A
141.97	73.7 Qp	1.0 / 9.4 / 28.3	55.7	V / 1.0 / 0.0	N/A	N/A
206.41	53.1 Qp	1.2 / 10.9 / 28.2	37.0	V / 1.0 / 0.0	N/A	N/A
212.98	65.9 Qp	1.2 / 11.0 / 28.2	49.9	V / 1.0 / 0.0	N/A	N/A
283.97	74.8 Qp	1.5 / 12.9 / 28.3	60.9	V / 1.0 / 0.0	N/A	N/A
294.89	54.6 Qp	1.5 / 13.0 / 28.2	40.9	V / 1.0 / 0.0	N/A	N/A
309.65	52.5 Qp	1.6 / 13.3 / 28.2	39.1	V / 1.0 / 0.0	N/A	N/A
324.38	50.8 Qp	1.6 / 13.8 / 28.2	38.0	V / 1.0 / 0.0	N/A	N/A
354.97	57.6 Qp	1.7 / 15.2 / 28.2	46.3	V / 1.0 / 0.0	N/A	N/A
425.97	82.6 Qp	1.8 / 17.1 / 28.1	73.4	V / 1.0 / 0.0	N/A	N/A
496.97	68.8 Qp	2.0 / 17.4 / 28.1	60.1	V / 1.0 / 0.0	N/A	N/A
567.97	64.5 Qp	2.2 / 18.9 / 28.1	57.5	V / 1.0 / 0.0	N/A	N/A
638.97	64.2 Qp	2.3 / 19.5 / 28.0	58.0	V / 1.0 / 0.0	N/A	N/A
709.97	59.6 Qp	2.4 / 20.9 / 28.0	54.9	V / 1.0 / 0.0	N/A	N/A
719.97	42.1 Qp	2.4 / 21.0 / 28.0	37.5	V / 1.0 / 0.0	N/A	N/A
780.97	48.9 Qp	2.7 / 21.4 / 27.9	45.1	V / 1.0 / 0.0	N/A	N/A
922.97	54.6 Qp	2.8 / 23.4 / 27.7	53.0	V / 1.0 / 0.0	N/A	N/A
1064.97	41.5 Qp	3.0 / 23.0 / 27.7	39.8	V / 1.0 / 0.0	N/A	N/A
1135.97	44.1 Qp	3.1 / 23.8 / 27.7	43.3	V / 1.0 / 0.0	N/A	N/A
1206.97	43.0 Qp	3.1 / 24.6 / 27.7	43.0	V / 1.0 / 0.0	N/A	N/A
1277.96	47.6 Qp	3.2 / 25.2 / 27.8	48.2	V / 1.0 / 0.0	N/A	N/A
1761.98	27.9 Qp	3.9 / 28.9 / 27.9	32.7	V / 1.0 / 0.0	N/A	N/A
1845.96	45.6 Qp	3.9 / 28.5 / 27.8	50.2	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: **0779 Run 02** Test Area: LTS 3m
 Test Method: FCC PART-22 Test Date: 26-Feb-2003
 EUT Model #: DGVL-126100SYS EUT Power: 24VDC (60HZ/110VAC-POWER SUPPLY)
 EUT Serial #: _____
 Manufacturer: ADC TELECOMM
 EUT Description: CELLULAR REPEATER
 Notes: _____

Temperature: 22 °C
 Relative Humidity: 24 %
 Air Pressure: 99 kPa
 Page: 5 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
77.20	74.9 Qp	0.7 / 7.9 / 28.2	55.3	V / 1.0 / 90.0	N/A	N/A
77.39	76.7 Qp	0.8 / 7.9 / 28.2	57.1	V / 1.0 / 90.0	N/A	N/A
93.76	73.2 Qp	0.8 / 8.0 / 28.2	53.8	V / 1.0 / 90.0	N/A	N/A
93.82	76.9 Qp	0.8 / 8.0 / 28.2	57.5	V / 1.0 / 90.0	N/A	N/A
94.71	64.0 Qp	0.8 / 8.2 / 28.2	44.7	V / 1.0 / 90.0	N/A	N/A
101.53	79.4 Qp	0.8 / 9.0 / 28.2	61.0	V / 1.0 / 90.0	N/A	N/A
101.70	68.2 Qp	0.8 / 9.0 / 28.2	49.8	V / 1.0 / 90.0	N/A	N/A
106.36	62.1 Qp	0.9 / 9.3 / 28.2	44.1	V / 1.0 / 90.0	N/A	N/A
116.09	51.7 Qp	0.9 / 9.5 / 28.2	33.9	V / 1.0 / 90.0	N/A	N/A
116.20	60.6 Qp	0.9 / 9.5 / 28.2	42.7	V / 1.0 / 90.0	N/A	N/A
141.97	78.0 Qp	1.0 / 9.4 / 28.3	60.1	V / 1.0 / 90.0	N/A	N/A
212.98	67.8 Qp	1.2 / 11.0 / 28.2	51.8	V / 1.0 / 90.0	N/A	N/A
354.97	63.4 Qp	1.7 / 15.2 / 28.2	52.1	V / 1.0 / 90.0	N/A	N/A
709.97	63.1 Qp	2.4 / 20.9 / 28.0	58.4	V / 1.0 / 90.0	N/A	N/A
719.97	51.0 Qp	2.4 / 21.0 / 28.0	46.4	V / 1.0 / 90.0	N/A	N/A
780.97	50.2 Qp	2.7 / 21.4 / 27.9	46.5	V / 1.0 / 90.0	N/A	N/A
1064.97	53.1 Qp	3.0 / 23.0 / 27.7	51.4	V / 1.0 / 90.0	N/A	N/A
94.71	65.0 Qp	0.8 / 8.2 / 28.2	45.8	V / 1.0 / 180.0	N/A	N/A
101.53	80.0 Qp	0.8 / 9.0 / 28.2	61.6	V / 1.0 / 180.0	N/A	N/A
101.70	74.5 Qp	0.8 / 9.0 / 28.2	56.2	V / 1.0 / 180.0	N/A	N/A
141.97	78.8 Qp	1.0 / 9.4 / 28.3	60.8	V / 1.0 / 180.0	N/A	N/A
206.41	55.2 Qp	1.2 / 10.9 / 28.2	39.1	V / 1.0 / 180.0	N/A	N/A
709.97	67.0 Qp	2.4 / 20.9 / 28.0	62.3	V / 1.0 / 180.0	N/A	N/A
780.97	53.8 Qp	2.7 / 21.4 / 27.9	50.0	V / 1.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 02	Test Area:	LTS 3m		
Test Method:	FCC PART-22	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-126100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	6 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1845.96	46.6 Qp	3.9 / 28.5 / 27.8	51.2	V / 1.0 / 180.0	N/A	N/A
206.41	56.2 Qp	1.2 / 10.9 / 28.2	40.1	V / 1.0 / 270.0	N/A	N/A
212.98	68.4 Qp	1.2 / 11.0 / 28.2	52.4	V / 1.0 / 270.0	N/A	N/A
780.97	56.4 Qp	2.7 / 21.4 / 27.9	52.7	V / 1.0 / 270.0	N/A	N/A
MAXIMIZED.						
425.97	86.2 Qp	1.8 / 17.1 / 28.1	77.0	V / 1.2 / 300.0	N/A	N/A
101.53	80.7 Qp	0.8 / 9.0 / 28.2	62.3	V / 1.3 / 111.0	N/A	N/A
141.97	81.9 Qp	1.0 / 9.4 / 28.3	64.0	V / 1.0 / 65.0	N/A	N/A
496.97	69.5 Qp	2.0 / 17.4 / 28.1	60.9	V / 1.0 / 320.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
101.75	83.4 Qp	0.8 / 9.0 / 28.2	65.1	H / 3.0 / 0.0	N/A	N/A
283.97	75.8 Qp	1.5 / 12.9 / 28.3	61.9	H / 3.0 / 90.0	N/A	N/A
94.75	75.6 Qp	0.8 / 8.2 / 28.2	56.4	H / 3.0 / 180.0	N/A	N/A
354.97	64.7 Qp	1.7 / 15.2 / 28.2	53.4	H / 3.0 / 180.0	N/A	N/A
106.43	78.7 Qp	0.9 / 9.3 / 28.2	60.7	H / 3.0 / 180.0	N/A	N/A
212.98	71.0 Qp	1.2 / 11.0 / 28.2	55.0	H / 3.0 / 180.0	N/A	N/A
1277.96	49.0 Qp	3.2 / 25.2 / 27.8	49.6	H / 3.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: 0779 Run 02 Test Area: LTS 3m
 Test Method: FCC PART-22 Test Date: 26-Feb-2003
 EUT Model #: DGVL-126100SYS EUT Power: 24VDC (60HZ/110VAC-POWER SUPPLY)
 EUT Serial #: _____ Temperature: 22 °C
 Manufacturer: ADC TELECOMM Relative Humidity: 24 %
 EUT Description: CELLULAR REPEATER Air Pressure: 99 kPa
 Notes: _____ Page: 7 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
MAXIMIZED.						
101.75	83.7 Qp	0.8 / 9.0 / 28.2	65.3	H / 2.5 / 180.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
638.97	64.7 Qp	2.3 / 19.5 / 28.0	58.5	V / 1.0 / 0.0	N/A	N/A
77.22	78.4 Qp	0.7 / 7.9 / 28.2	58.9	V / 1.0 / 90.0	N/A	N/A
106.36	66.5 Qp	0.9 / 9.3 / 28.2	48.5	V / 1.0 / 90.0	N/A	N/A
1845.96	49.7 Qp	3.9 / 28.5 / 27.8	54.3	V / 1.0 / 180.0	N/A	N/A
MAXIMIZED.						
77.22	78.2 Qp	0.7 / 7.9 / 28.2	58.7	V / 1.0 / 90.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
1277.96	50.9 Qp	3.2 / 25.2 / 27.8	51.5	H / 3.0 / 270.0	N/A	N/A
MAXIMIZED.						
1277.96	51.0 Qp	3.2 / 25.2 / 27.8	51.6	H / 3.0 / 270.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
LOW CHANNEL (870MHz)						
END OF SCAN 30 - 9000MHZ.						

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 02	Test Area:	LTS 3m		
Test Method:	FCC PART-22	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-126100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	8 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
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***** MEASUREMENT SUMMARY PAGE 1*****						
77.22	78.4 Qp	0.7 / 7.9 / 28.2	58.9	V / 1.0 / 90.0	N/A	N/A
77.39	76.7 Qp	0.8 / 7.9 / 28.2	57.1	V / 1.0 / 90.0	N/A	N/A
93.82	76.9 Qp	0.8 / 8.0 / 28.2	57.5	V / 1.0 / 90.0	N/A	N/A
93.82	64.9 Qp	0.8 / 8.0 / 28.2	45.5	V / 1.0 / 0.0	N/A	N/A
94.75	75.6 Qp	0.8 / 8.2 / 28.2	56.4	H / 3.0 / 180.0	N/A	N/A
101.53	82.9 Qp	0.8 / 9.0 / 28.2	64.5	V / 1.0 / 320.0	N/A	N/A
101.75	83.7 Qp	0.8 / 9.0 / 28.2	65.3	H / 2.5 / 180.0	N/A	N/A
106.36	66.5 Qp	0.9 / 9.3 / 28.2	48.5	V / 1.0 / 90.0	N/A	N/A
106.43	78.7 Qp	0.9 / 9.3 / 28.2	60.7	H / 3.0 / 180.0	N/A	N/A
116.09	51.7 Qp	0.9 / 9.5 / 28.2	33.9	V / 1.0 / 90.0	N/A	N/A
116.20	60.6 Qp	0.9 / 9.5 / 28.2	42.7	V / 1.0 / 90.0	N/A	N/A
130.49	52.9 Qp	0.9 / 8.4 / 28.2	34.0	V / 1.0 / 0.0	N/A	N/A
141.97	81.9 Qp	1.0 / 9.4 / 28.3	64.0	V / 1.0 / 65.0	N/A	N/A
206.41	56.2 Qp	1.2 / 10.9 / 28.2	40.1	V / 1.0 / 270.0	N/A	N/A
212.98	71.0 Qp	1.2 / 11.0 / 28.2	55.0	H / 3.0 / 180.0	N/A	N/A
283.97	75.8 Qp	1.5 / 12.9 / 28.3	61.9	H / 3.0 / 90.0	N/A	N/A
294.89	54.6 Qp	1.5 / 13.0 / 28.2	40.9	V / 1.0 / 0.0	N/A	N/A
309.65	52.5 Qp	1.6 / 13.3 / 28.2	39.1	V / 1.0 / 0.0	N/A	N/A
324.38	50.8 Qp	1.6 / 13.8 / 28.2	38.0	V / 1.0 / 0.0	N/A	N/A
354.97	64.7 Qp	1.7 / 15.2 / 28.2	53.4	H / 3.0 / 180.0	N/A	N/A
425.97	86.2 Qp	1.8 / 17.1 / 28.1	77.0	V / 1.2 / 300.0	N/A	N/A
496.97	69.5 Qp	2.0 / 17.4 / 28.1	60.9	V / 1.0 / 320.0	N/A	N/A
567.97	64.5 Qp	2.2 / 18.9 / 28.1	57.5	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	0779 Run 02	Test Area:	LTS 3m		
Test Method:	FCC PART-22	Test Date:	26-Feb-2003		
EUT Model #:	DGVL-126100SYS	EUT Power:	24VDC (60HZ/110VAC-POWER SUPPLY)		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMM			Relative Humidity:	24 %
EUT Description:	CELLULAR REPEATER			Air Pressure:	99 kPa
Notes:				Page:	9 of 9

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
***** MEASUREMENT SUMMARY PAGE 2*****						
638.97	65.0 Qp	2.3 / 19.5 / 28.0	58.9	H / 2.5 / 180.0	N/A	N/A
709.97	67.0 Qp	2.4 / 20.9 / 28.0	62.3	V / 1.0 / 180.0	N/A	N/A
719.97	51.0 Qp	2.4 / 21.0 / 28.0	46.4	V / 1.0 / 90.0	N/A	N/A
780.97	56.4 Qp	2.7 / 21.4 / 27.9	52.7	V / 1.0 / 270.0	N/A	N/A
922.97	54.6 Qp	2.8 / 23.4 / 27.7	53.0	V / 1.0 / 0.0	N/A	N/A
1064.97	53.1 Qp	3.0 / 23.0 / 27.7	51.4	V / 1.0 / 90.0	N/A	N/A
1135.97	44.1 Qp	3.1 / 23.8 / 27.7	43.3	V / 1.0 / 0.0	N/A	N/A
1206.97	43.0 Qp	3.1 / 24.6 / 27.7	43.0	V / 1.0 / 0.0	N/A	N/A
1277.96	51.0 Qp	3.2 / 25.2 / 27.8	51.6	H / 3.0 / 270.0	N/A	N/A
1761.98	27.9 Qp	3.9 / 28.9 / 27.9	32.7	V / 1.0 / 0.0	N/A	N/A
1845.96	49.7 Qp	3.9 / 28.5 / 27.8	54.3	V / 1.0 / 180.0	N/A	N/A
2129.96	46.6 Qp	4.3 / 29.9 / 27.5	53.3	V / 1.0 / 89.0	N/A	N/A
2678.98	27.2 Qp	4.8 / 31.0 / 27.6	35.4	V / 1.0 / 0.0	N/A	N/A
2839.95	41.1 Qp	5.0 / 31.2 / 27.6	49.8	H / 1.0 / 0.0	N/A	N/A
2981.95	38.0 Qp	5.1 / 31.5 / 27.5	47.1	V / 1.3 / 300.0	N/A	N/A
4319.94	42.8 Qp	6.4 / 33.8 / 41.3	41.6	V / 1.0 / 195.0	N/A	N/A
4827.93	38.1 Qp	6.8 / 34.4 / 41.2	38.0	V / 1.0 / 0.0	N/A	N/A
5679.94	36.1 Qp	7.5 / 36.2 / 40.9	39.0	H / 1.0 / 0.0	N/A	N/A
6479.78	40.1 Qp	8.5 / 36.4 / 40.9	44.1	H / 1.0 / 90.0	N/A	N/A

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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:

- | | |
|----------------------------------|--------------|
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | 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

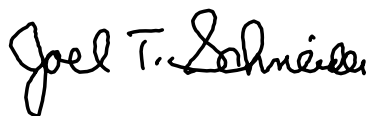
- fulfill the general approval requirements mentioned on page 3.

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

Testing Start Date: 26 February 2003

Testing End Date: 05 March 2003

- TÜV PRODUCT SERVICE INC -



Reviewed By:
J. T. Schneider



Tested By:
R. M. Johnson

Test Equipment List

Test equipment used :

	Model Number	Manufacturer	Description	Serial Number	Cal Due
■ -	E4432B	HP	Signal Generator	1191076B	April 03
■ -	E4436B	HP	Signal Generator	963739	Sep 04
■ -	ZAPD-21	Mini Circuits	Combiner	N/A	CNR
■ -	50FH-030-300		Attenuator	N/A	CNR
■ -	HP8563E	HP	Spectrum Analyzer	MC27690	May 03
■ -	HPD60-5	Xantrex	DC Power Supply	MC27884	CNR
■ -		Rohde & Schwarz	Power Meter	MC48545	Feb 04
■ -	1520CT	Staco	Variable Auto Transformer	MC/44655	CNR
■ -	79III	Fluke	Multimeter	MC16119	July 03
■ -	5347A	HP	Freq. Counter	MC27569	Jan 04
■ -		Thermotron	Temperature Chamber	MC27885	CNR

	TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
■ -		UHAP-10dB	Schwarzbeck	Dipole Antenna 300-1000	164	CNR
■ -		VHAP	Schwarzbeck	Dipole Antenna 30-300	177	CNR
■ -	2396	2520	Wavetek	Signal Generator	6271013	6-05-03
■ -	2665	ZHL-1042J	Mini-Circuits	Preamplifier	32296	10-15-03
■ -	3202	EM-6917B	Electro-Metrics	Biconicalog Periodic	102	10-04-03
■ -	2690	8566B	Hewlett-Packard	Spectrum Analyzer (Unit F)	2430A00930	12-02-03
■ -	2678	85662A	Hewlett-Packard	Analyzer Display (Unit F)	2403A08134	12-02-03
■ -	2684	85650A	Hewlett-Packard	Quasi-Peak Adapter (Unit F)	2521A01006	11-26-03
■ -	2075	3115	Electro-Mechanics (EMCO)	Ridge Guide Ant. 1-18 GHz	9001-3275	11-13-03
■ -	2478	AWT-18037	Avantek	Preamplifier 8-18 GHz	1001-9226	3-18-03
■ -	2477	AFT-8434	Avantek	Preamplifier 4-8 GHz	2613A92801	3-18-03

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST) and is calibrated annually. Equipment labeled CNR (Calibration Not Required) is verified and compensated for with NIST traceable calibrated equipment.

TEST SETUP PHOTOS FOR EMISSIONS TESTING

See Test Setup Exhibit



Appendix A

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: 952-917-0326 Fax: 952-917-0181
 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 800 MHz 20 Watt System (A and B Band)
 Model No.: DGVL-116100SYS Serial No.: None
and DGVL-126100SYS
 Product Options: None
 Configurations to be tested: 800 MHz 20 Watt A Band and B Band

Test Objective

- | | |
|---|---|
| <input type="checkbox"/> EMC Directive 89/336/EEC (EMC)
Std: _____ | <input checked="" type="checkbox"/> FCC: Class <input type="checkbox"/> A <input type="checkbox"/> B Part <u>22</u> |
| <input type="checkbox"/> Machinery Directive 89/392/EEC (EMC)
Std: _____ | <input type="checkbox"/> VCCI: Class <input type="checkbox"/> A <input type="checkbox"/> B |
| <input type="checkbox"/> Medical Device Directive 93/42/EEC (EMC)
Std: _____ | <input type="checkbox"/> BCIQ: Class <input type="checkbox"/> A <input type="checkbox"/> B |
| <input type="checkbox"/> Vehicle Directive 72/245/EEC (EMC)
Std: _____ | <input type="checkbox"/> Canada: Class <input type="checkbox"/> A <input type="checkbox"/> B |
| <input type="checkbox"/> FDA Reviewers Guidance for Premarket
Notification Submissions (EMC) | <input type="checkbox"/> Australia: Class <input type="checkbox"/> A <input type="checkbox"/> B |
| | <input type="checkbox"/> Other: _____ |

TÜV Product Service Certification Requested

- | | |
|--|---|
| <input type="checkbox"/> Attestation of Conformity (AoC) | <input type="checkbox"/> International EMC Mark (IEM) |
| <input type="checkbox"/> Certificate of Conformity (CoC) | <input type="checkbox"/> Compliance Document |
| Protection Class (N/A for vehicles) | <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> 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 Requirements

Length: 19" Width: 26" Height: 23" Weight: 47 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: 1

Current (Amps/phase(max)): 10.0 Current (Amps/phase(nominal)): 9.0

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): 1
- 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	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foil over braid	Coaxial	Metallized 9-pin D-Sub	Characteristic Impedance	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RF "N" type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Braid	Coaxial	N	50 Ohms	>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	6 Pin Standoff		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	4 Pin Standoff		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fiber	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	SC	N/A	>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9 Pin Din	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Specified	AC Coupled	Din		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Net in	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	Cat 5		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Net out	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	Cat 5		3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DC power block	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		Terminal		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AC power	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None				<3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
STM to Amp Interconnect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Varied	Chassis	Special		.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Connection	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	2 Pin Standoff		<1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>

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-102000HU	None	
STM A Band	DGVL-112000STM	None	
STM B Band	DGVL-122000STM	None	
Amp	DGVL-106000LPA	None	
Digivance LRCS 800 MHz 20 Watt System Model DGVL-116100SYS and DGVL-126100SYS 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 E4436B	963739	
DC Power Supply	HPD 60-5	MC27884	

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			<input type="checkbox"/> Switched-mode: (Frequency) _____ <input type="checkbox"/> Linear <input type="checkbox"/> Other: _____
			<input type="checkbox"/> Switched-mode: (Frequency) _____ <input type="checkbox"/> Linear <input type="checkbox"/> 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

Mark J. Misko
 Customer authorization to perform tests according to this test plan.

2-4-03
 Date

 Test Plan/CDF Prepared By (please print)

 Date

 Reviewed by TÜV Product Service Associate

 Date