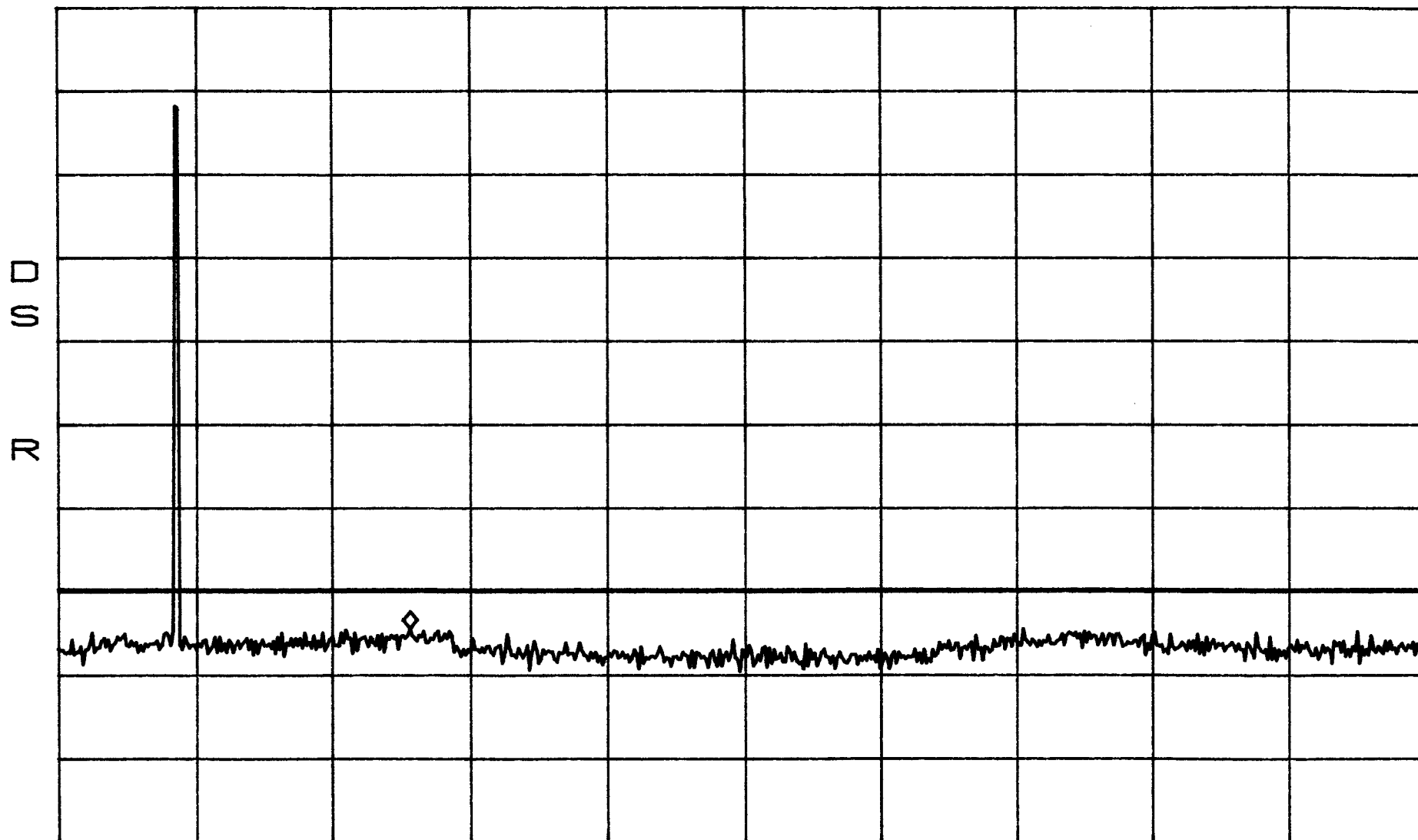


Conducted Emissions
Mid

Band B

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -17.53dBm
2.589GHz

START 30MHz

STOP 10.000GHz

*RBW 100kHz

VBW 100kHz

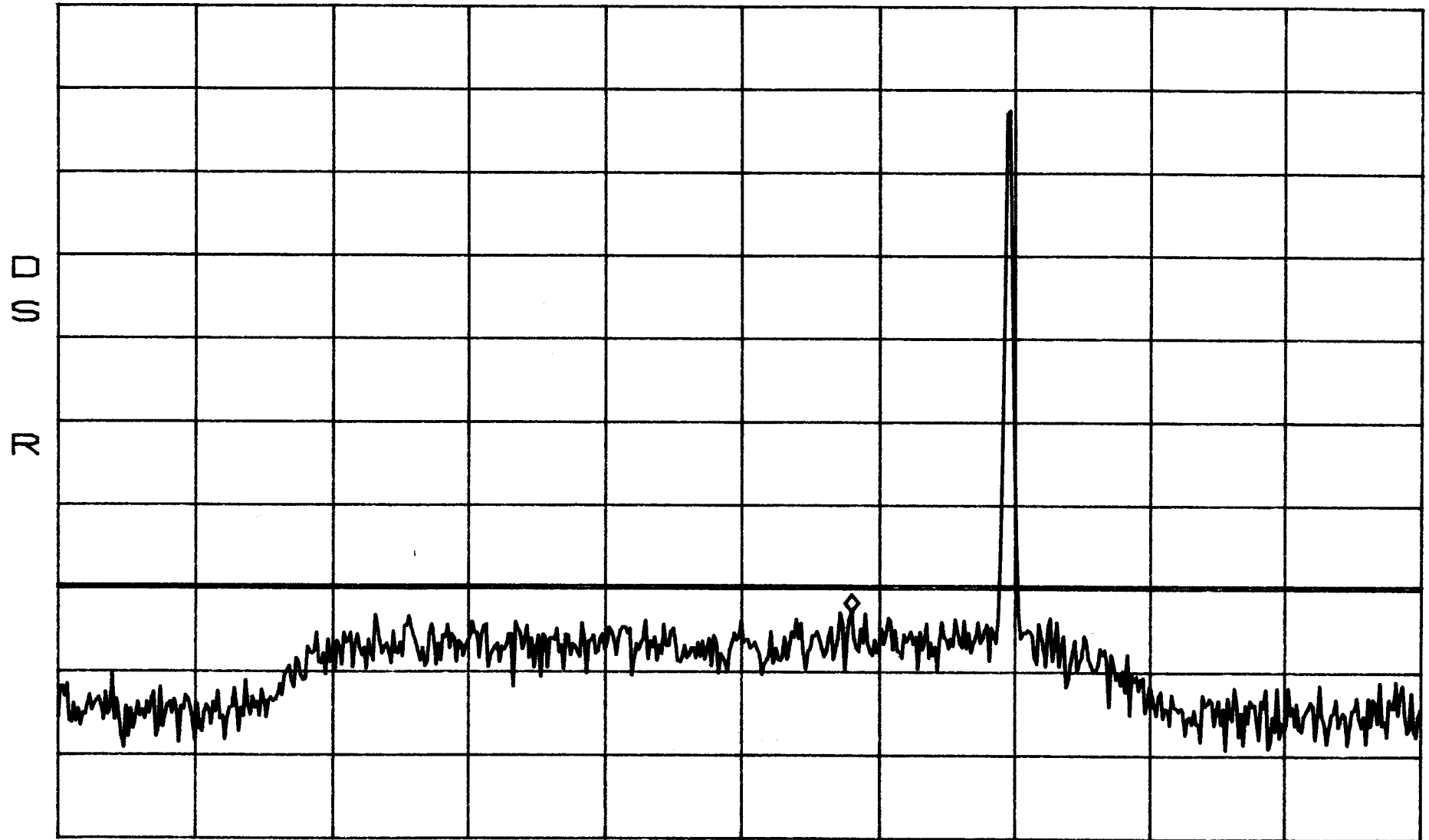
SWP 2.5sec

Conducted Emissions Band 8
High

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -15.87dBm
889.40MHz



CENTER 887.00MHz
*RBW 30kHz VBW 30kHz

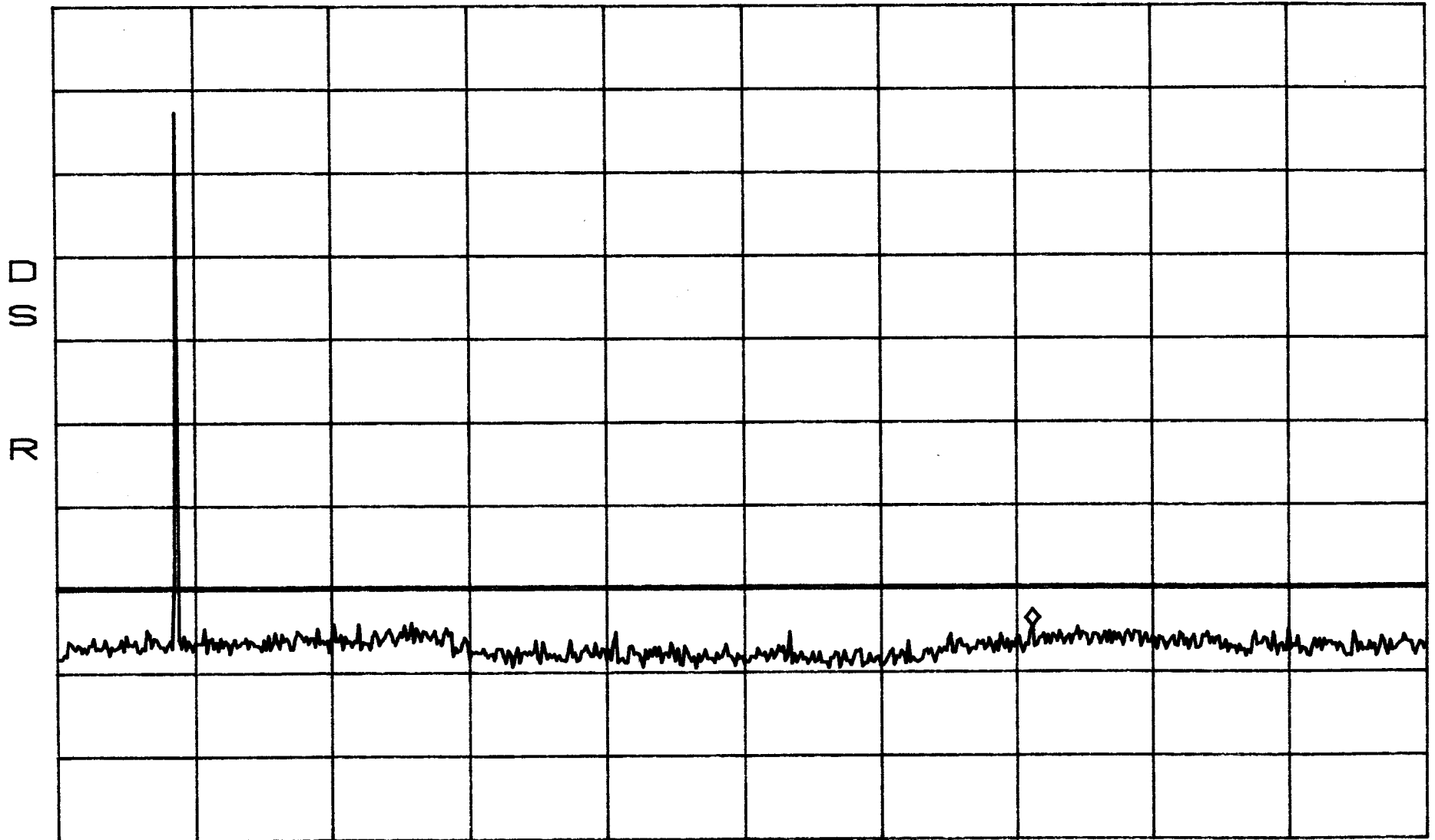
SPAN 30.00MHz
SWP 84ms

Conducted Emissions Band B
High

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -17.70dBm
7.125GHz



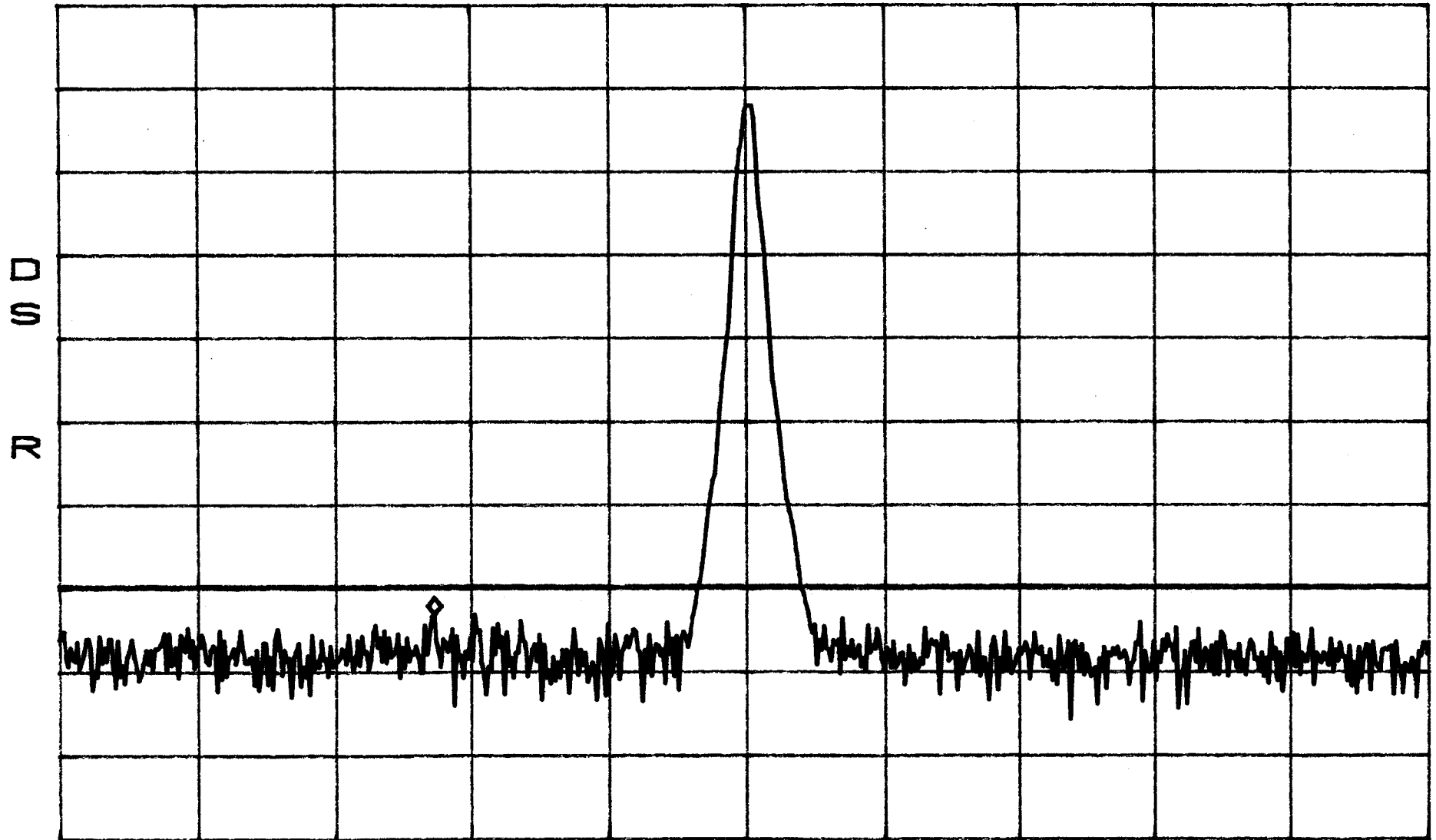
START 30MHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.5sec

Conducted Emissions Band A
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -16.20dBm
877.867MHz



CENTER 879.000MHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

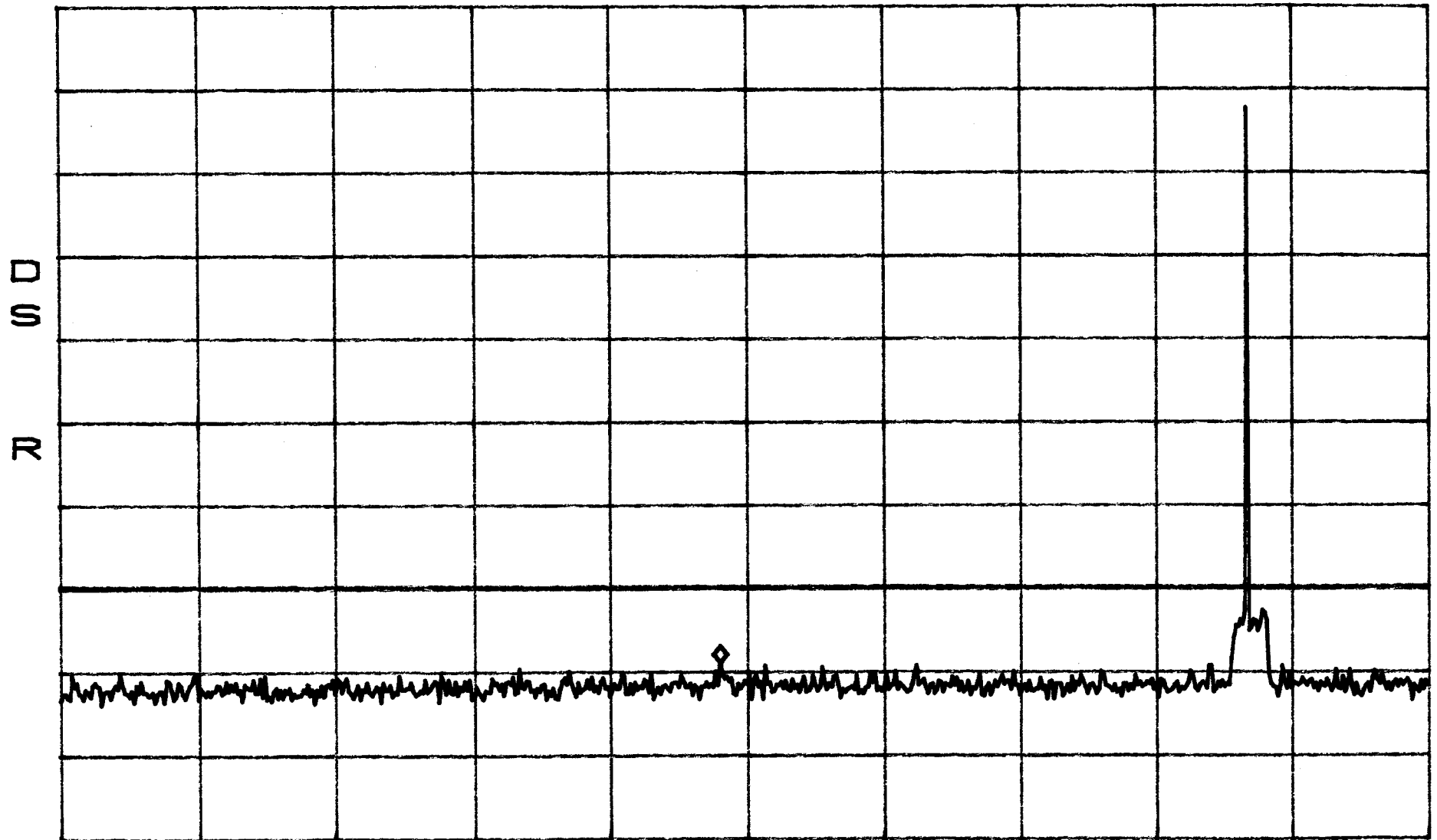
Conducted Emissions
FM

Band A

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -22.03dBm
495.6MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

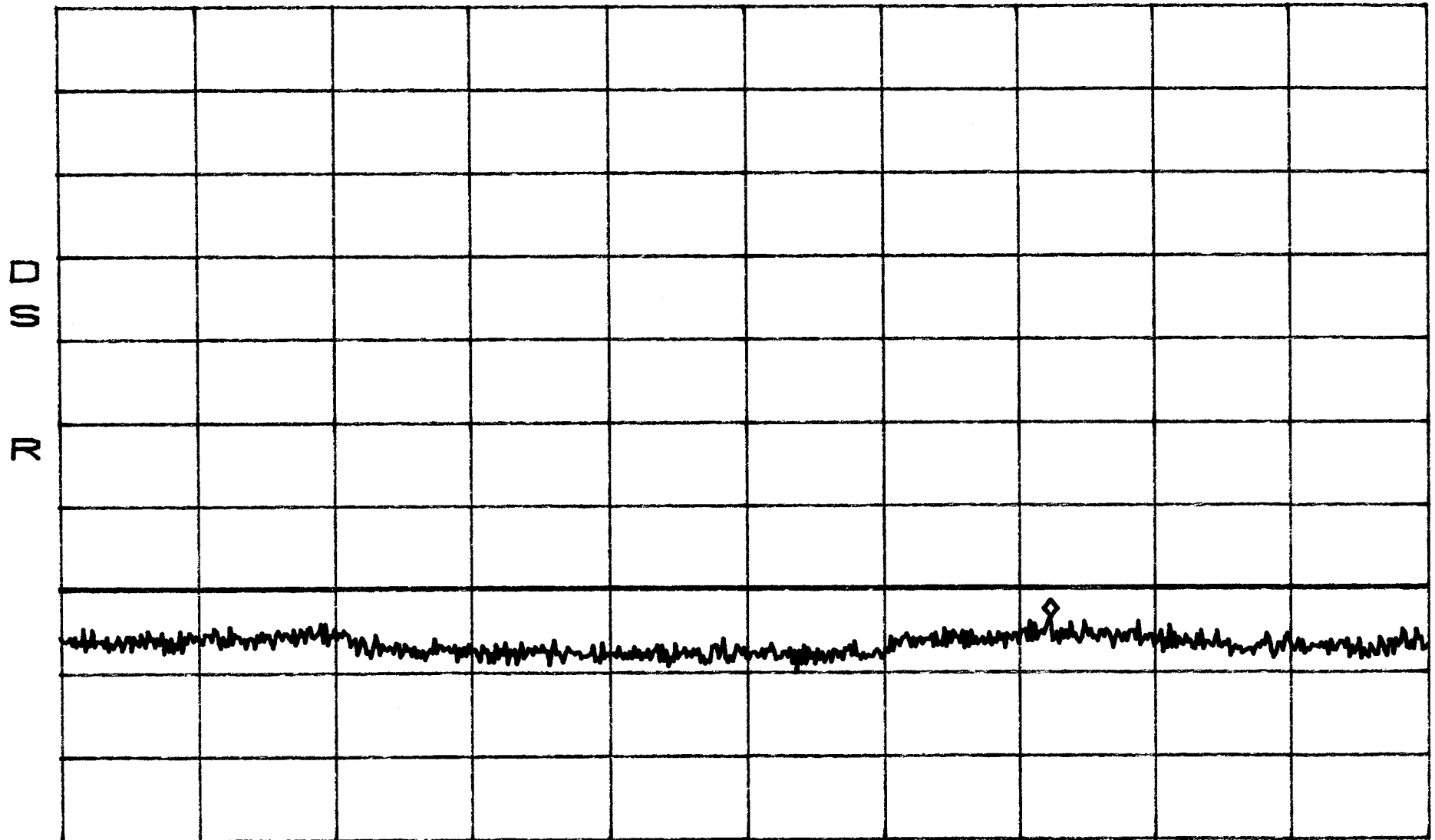
SWP 2.7sec

Conducted Emissions Band A
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -16.53dBm
7.510GHz



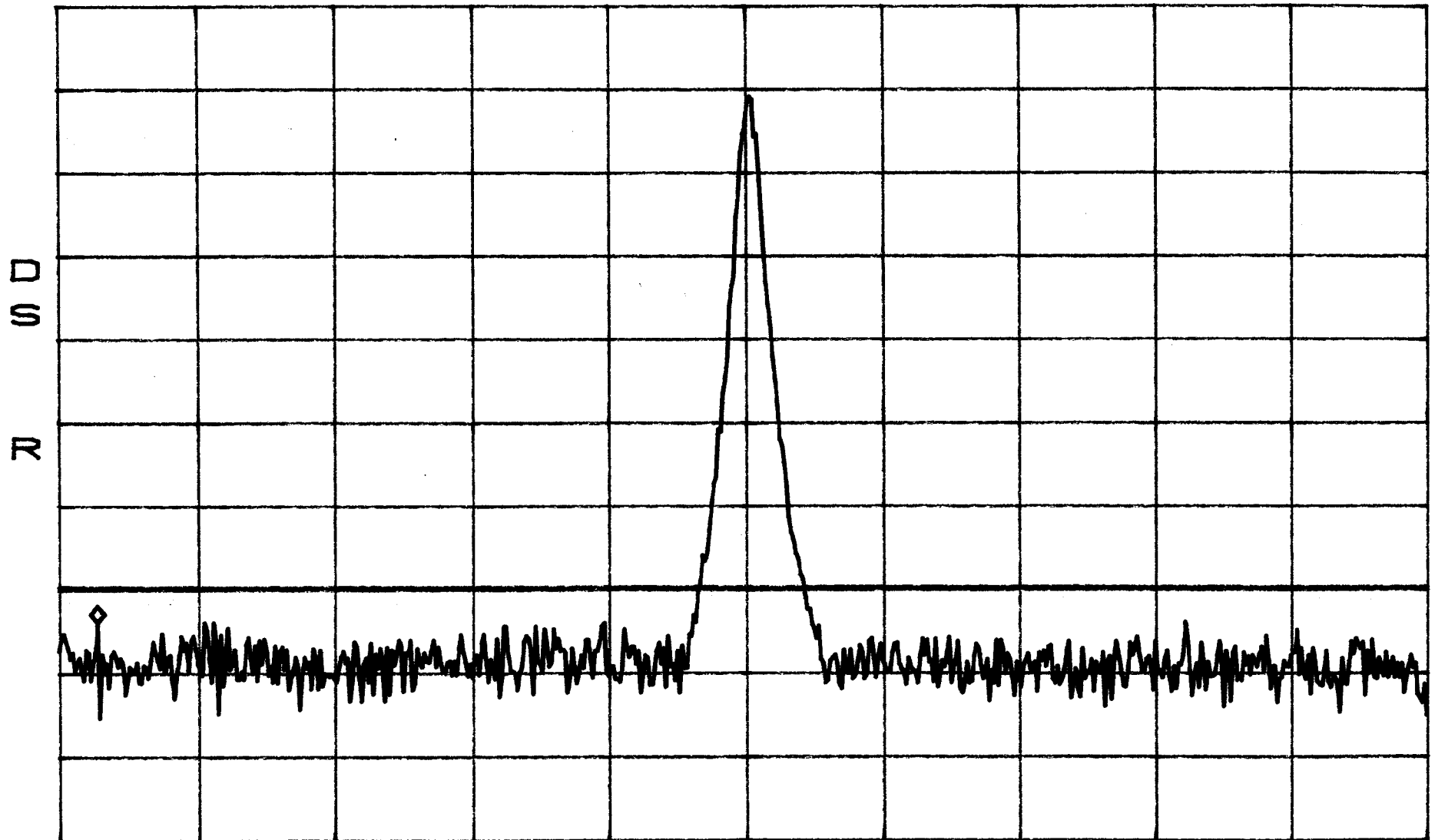
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band A
TDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -17.03dBm
876.642MHz



CENTER 879.000MHz
*RBW 30kHz VBW 30kHz

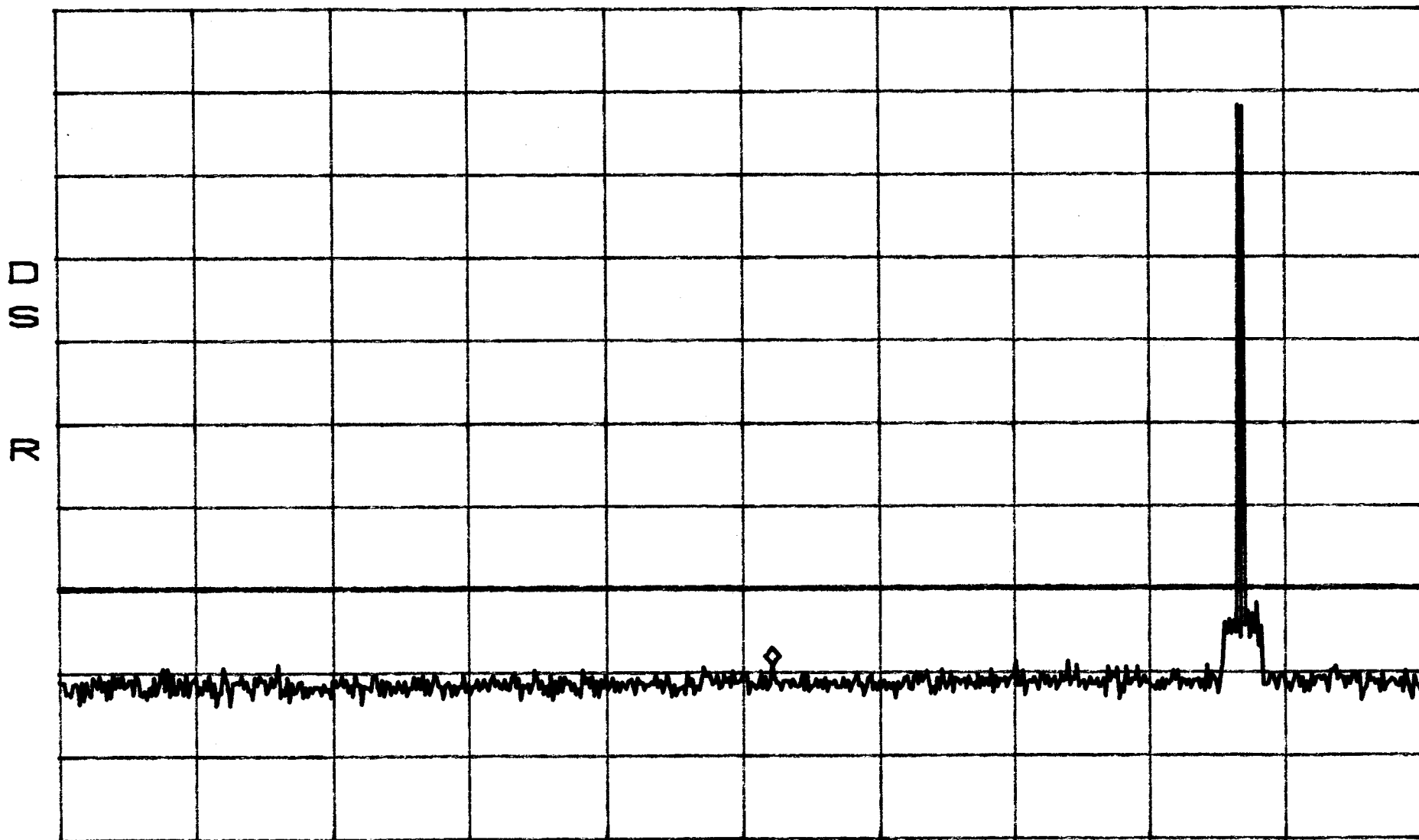
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band A
TDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -22.20dBm
536.0MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

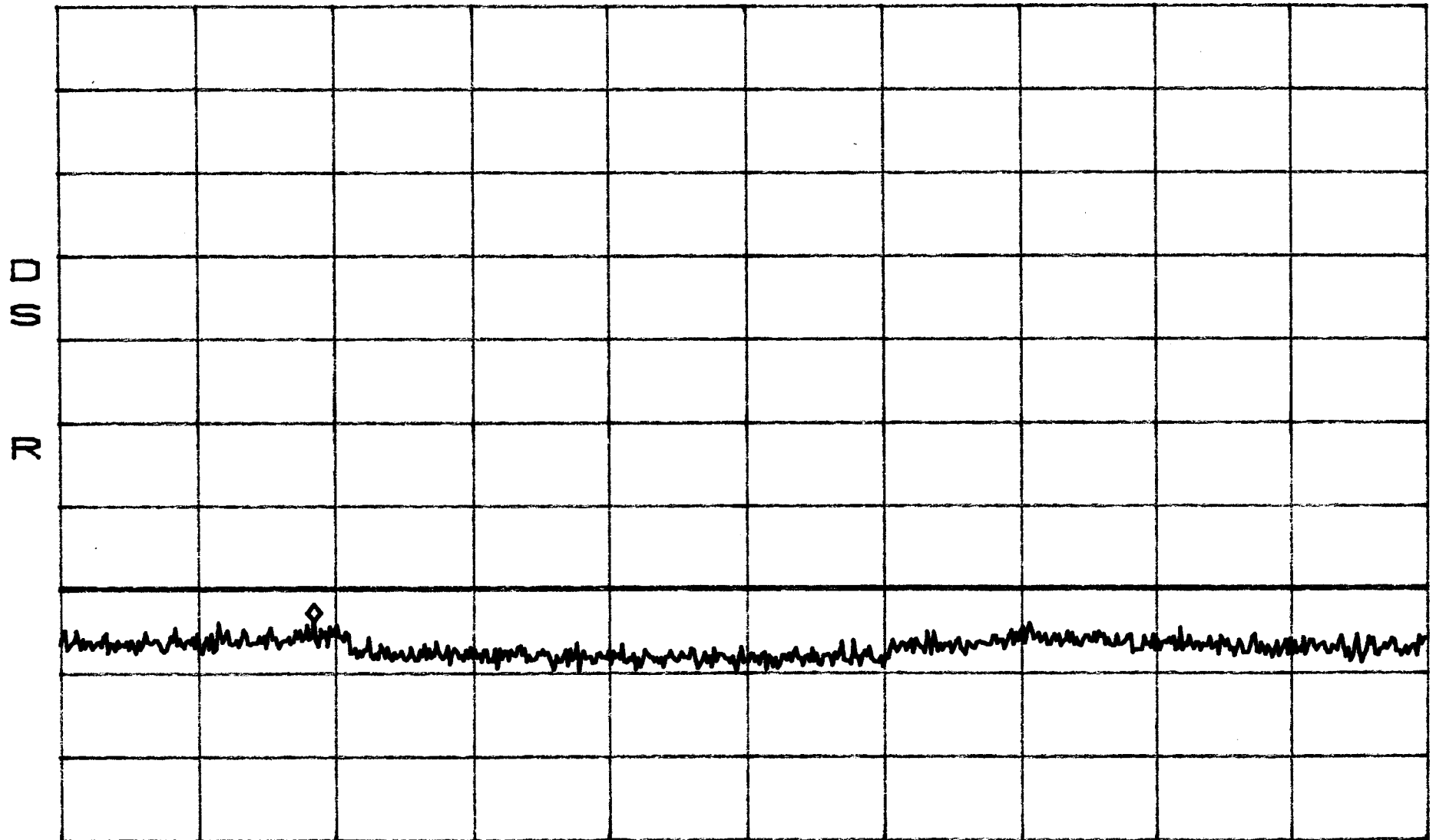
SWP 2.7sec

Conducted Emissions Band A
TDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -16.87dBm
2.665GHz



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

Conducted Emissions Band A
CDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -15.37dBm
877.517MHz



CENTER 879.000MHz
*RBW 30kHz VBW 30kHz

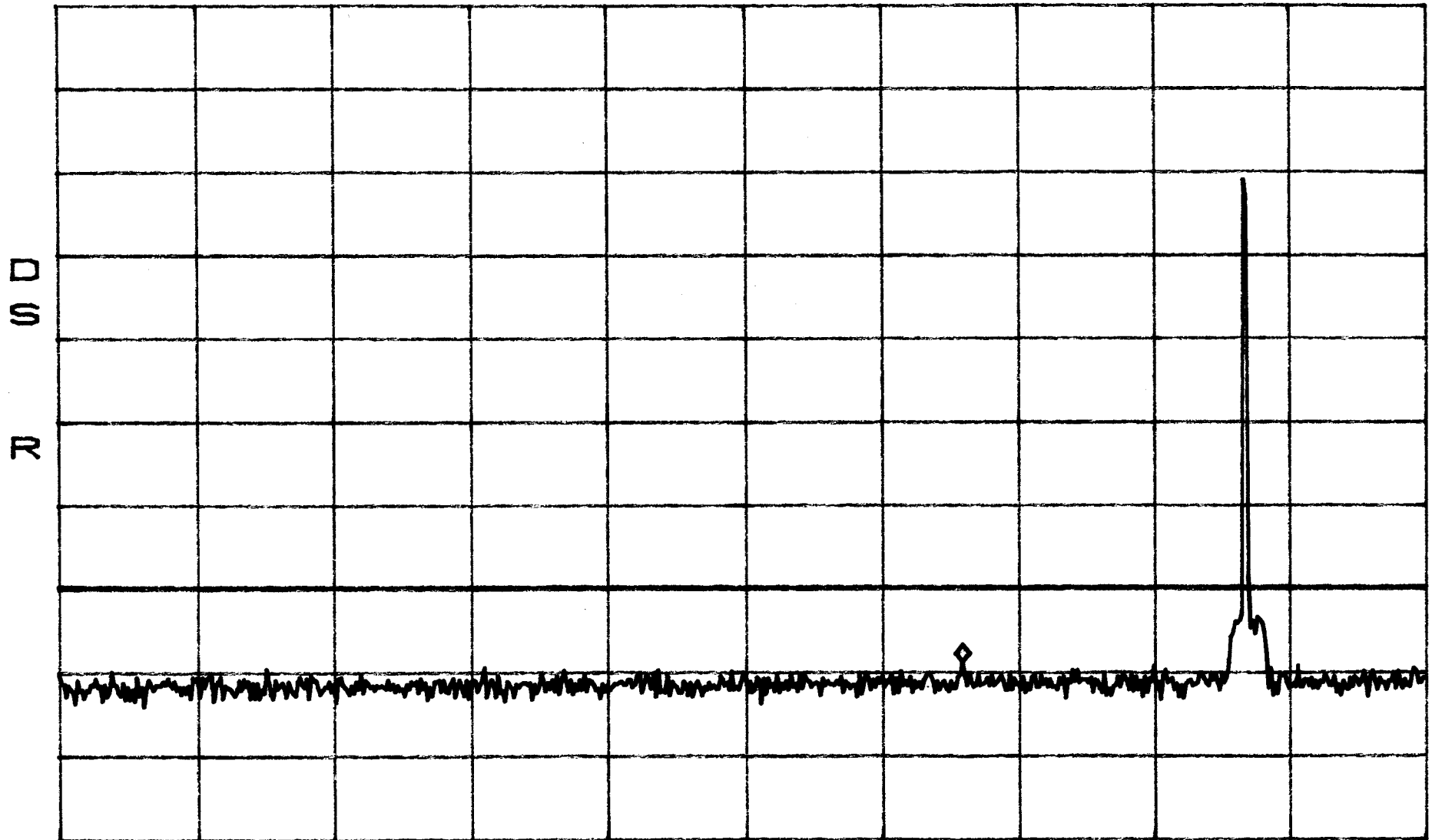
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band A
CDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -21.87dBm
668.6MHz



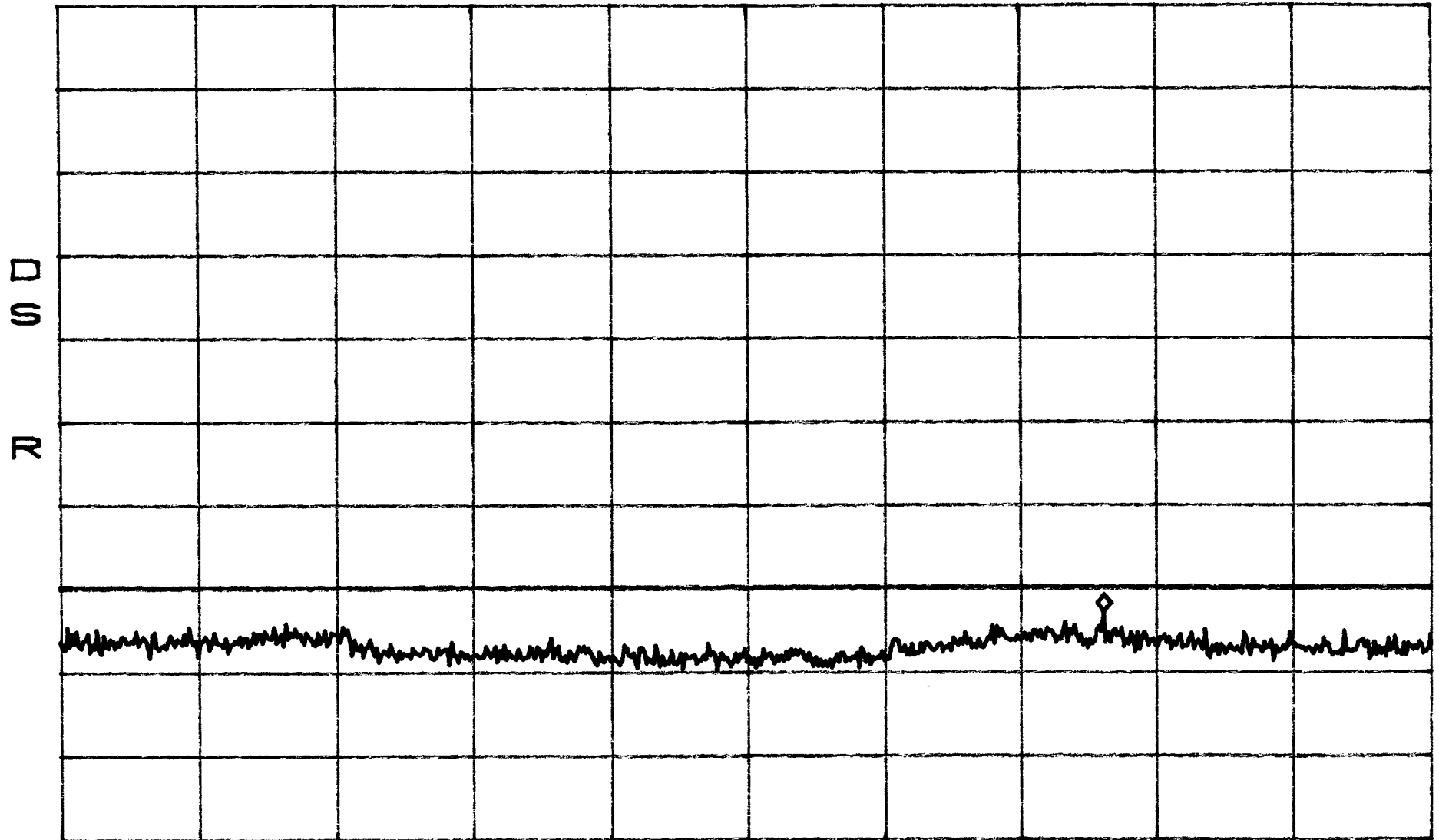
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band A
CDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -15.87dBm
7.855GHz



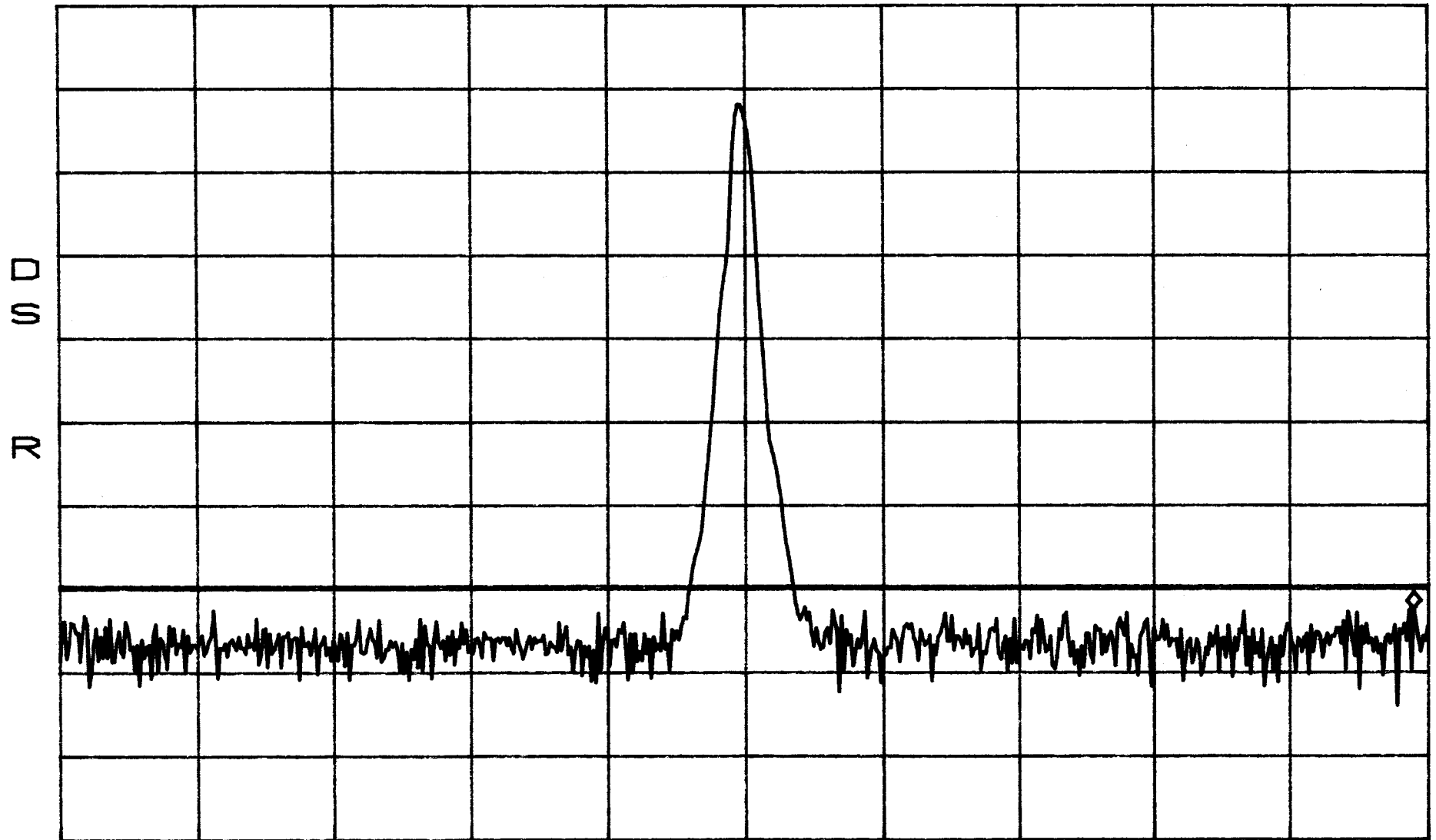
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band B
FM

*ATTEN 10dB
RL 56.8dBm

MKR -15.53dBm
889.483MHz

10dB/



CENTER 887.033MHz
*RBW 30kHz VBW 30kHz

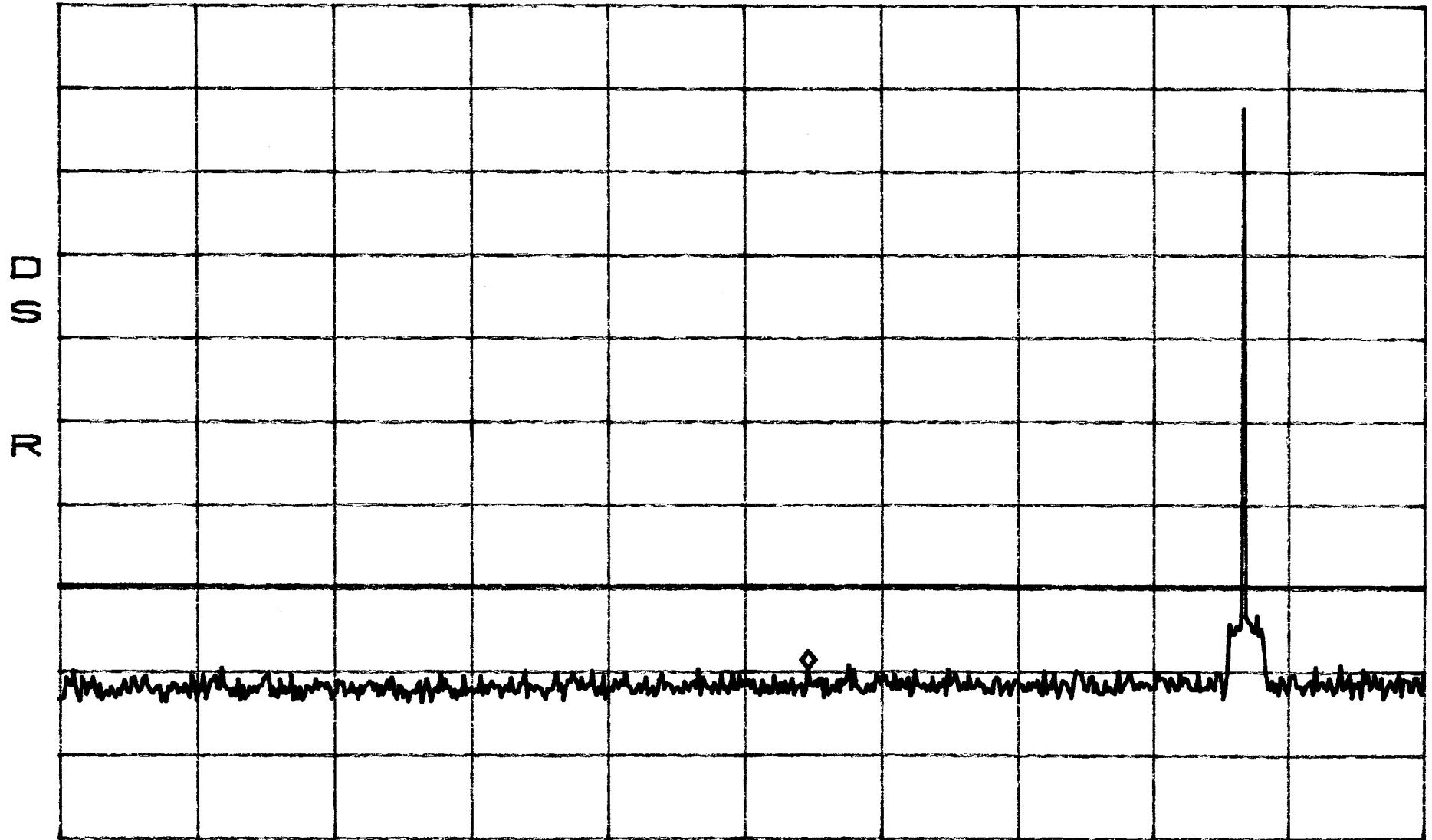
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band B
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -22.70dBm
560.3MHz



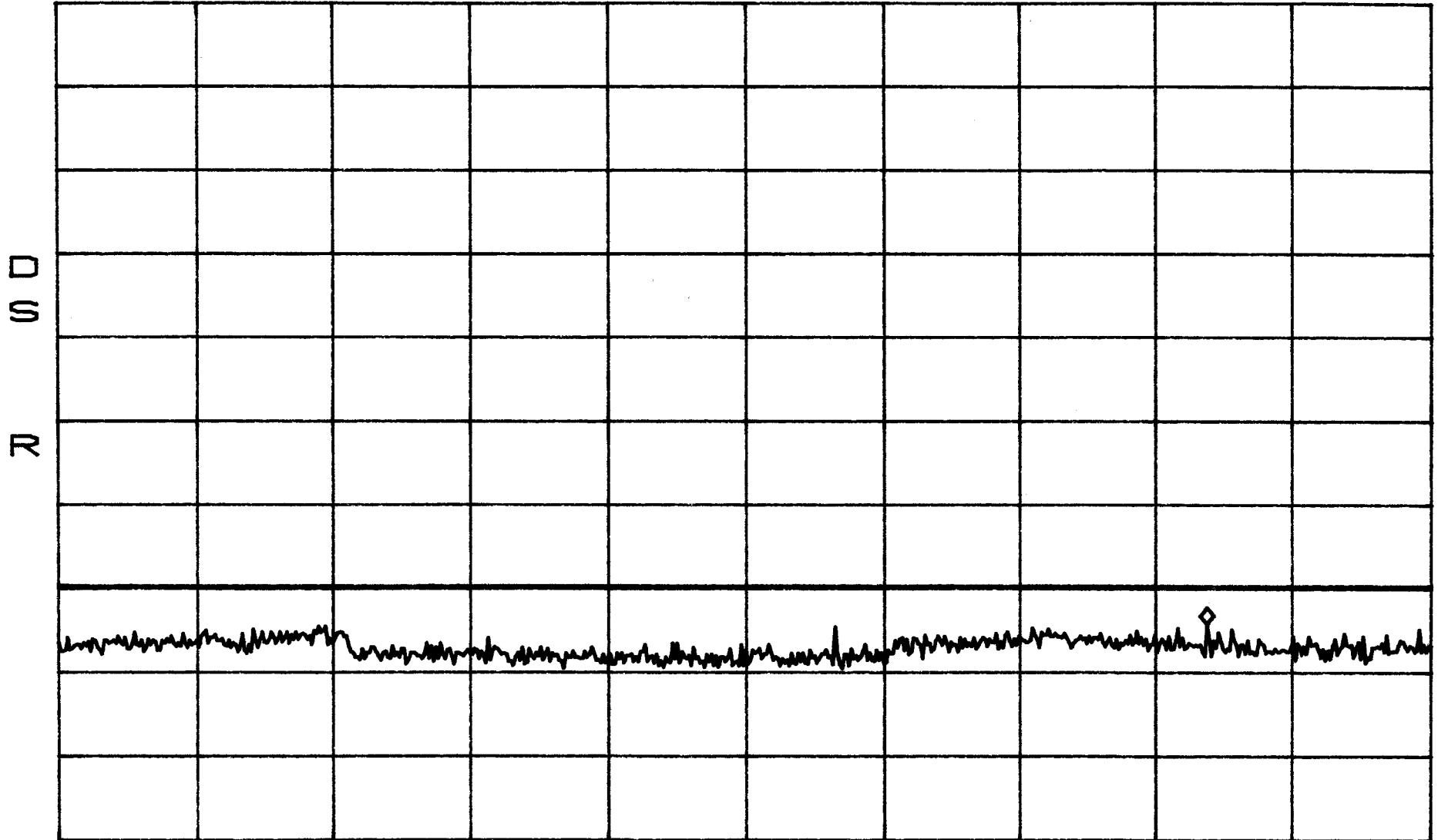
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -17.37dBm
8.545GHz



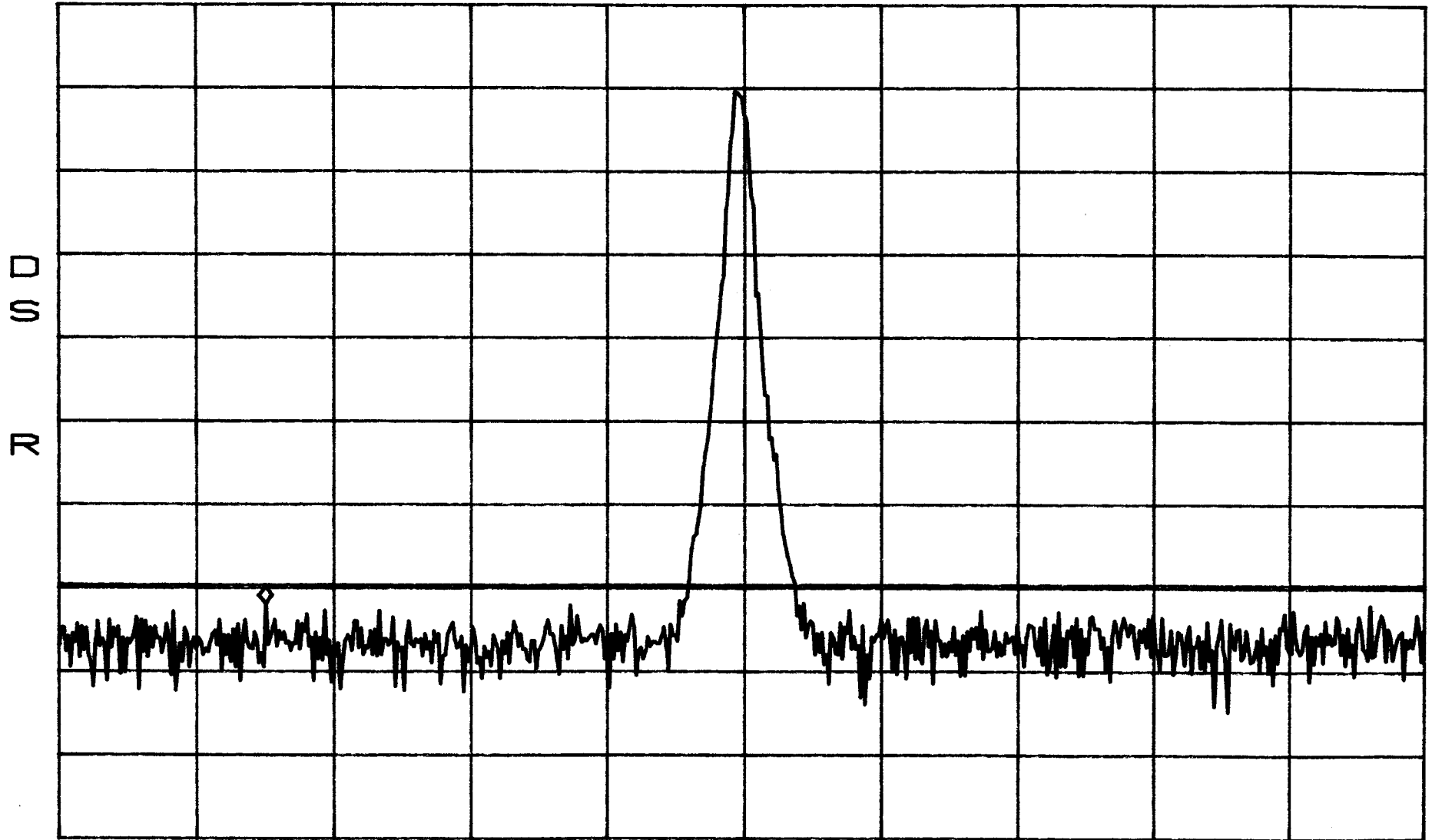
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band B
TDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -15.03dBm
885.283MHz



CENTER 887.033MHz
*RBW 30kHz VBW 30kHz

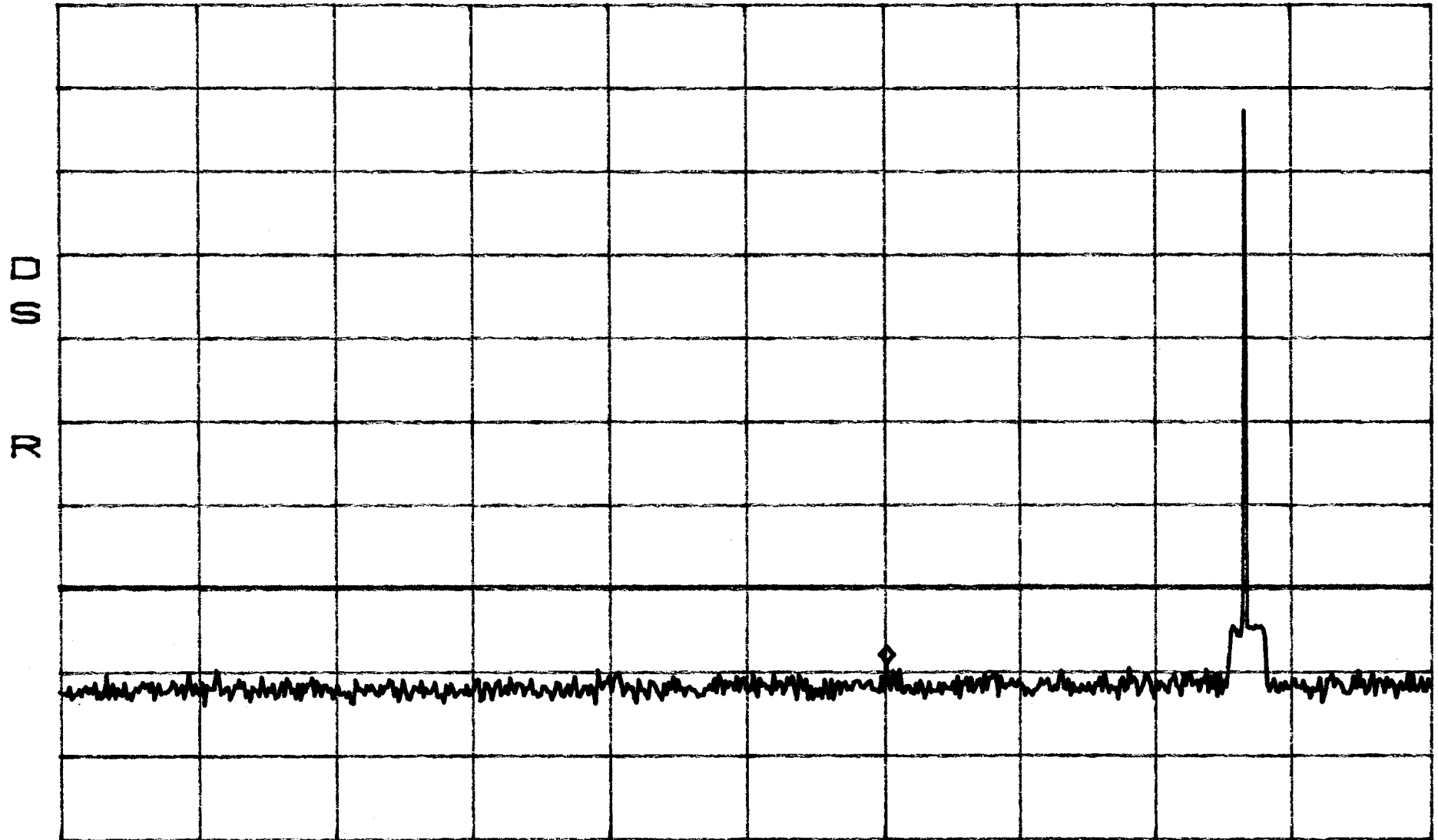
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band B
TDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -22.03dBm
613.6MHz



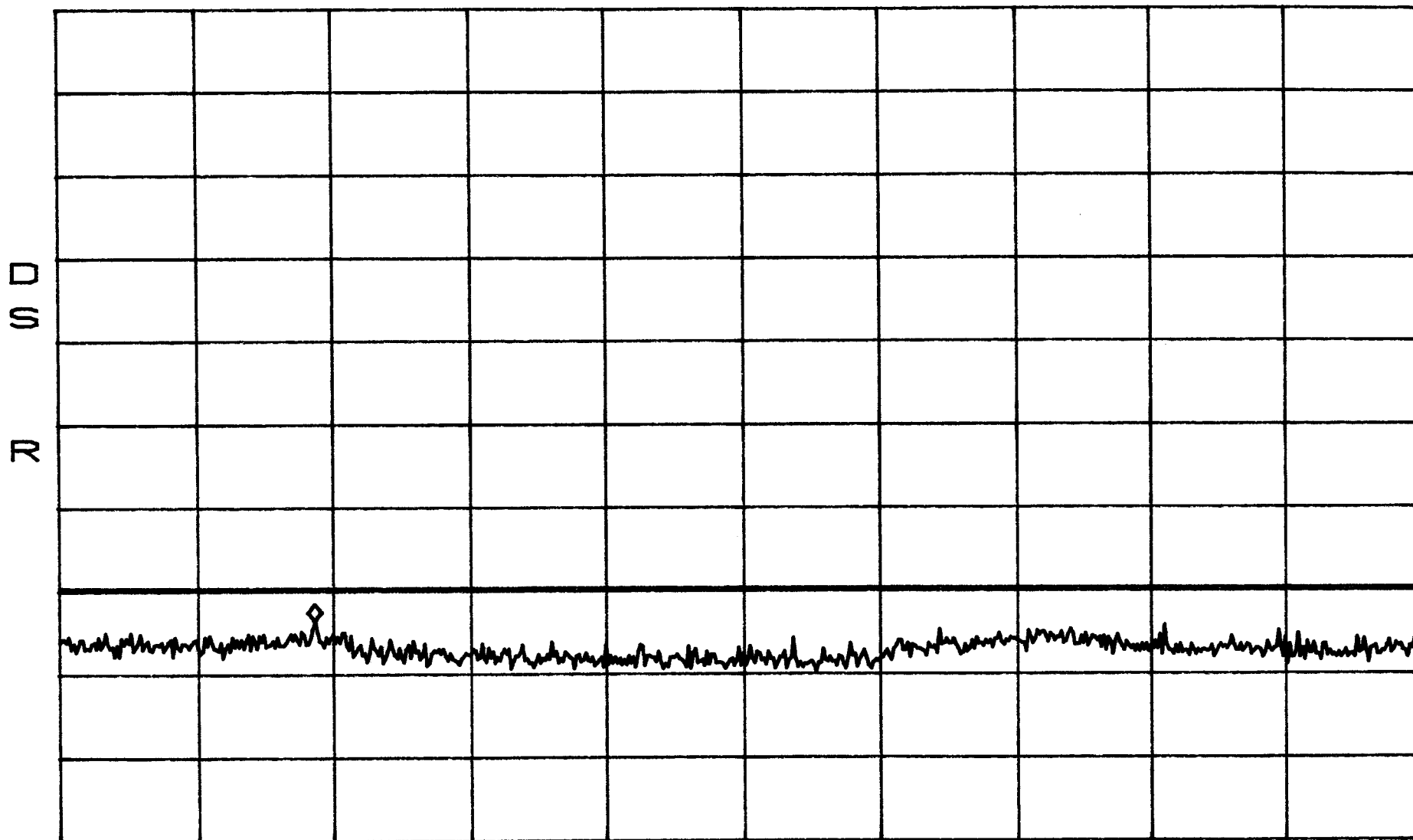
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B
TDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -16.70dBm
2.680GHz



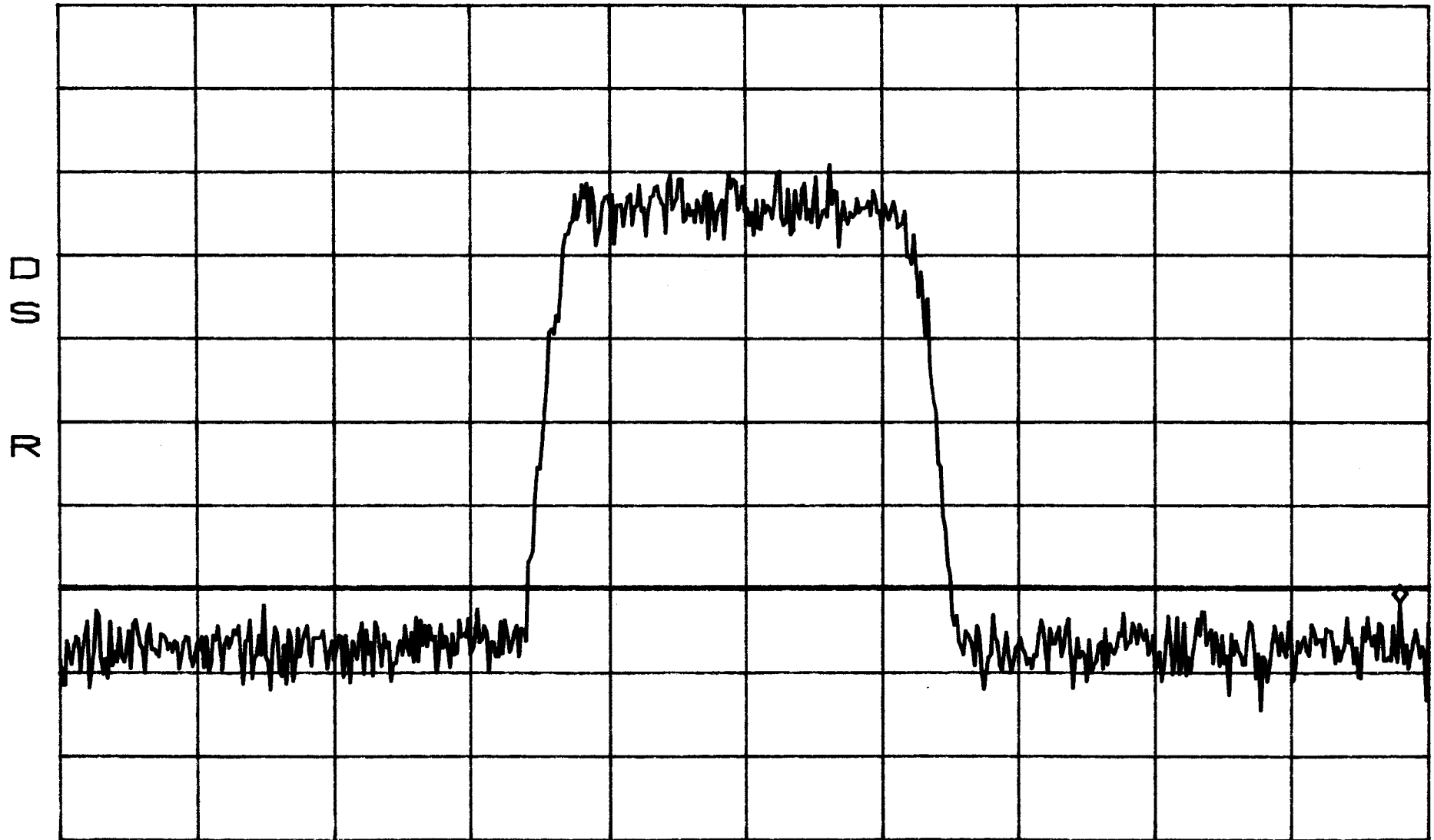
START 1.000GHz STOP 10.000GHz
*RBW 100kHz VBW 100kHz SWP 2.3sec

Conducted Emissions Band B
CDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -14.70dBm
889.425MHz



CENTER 887.033MHz
*RBW 30kHz VBW 30kHz

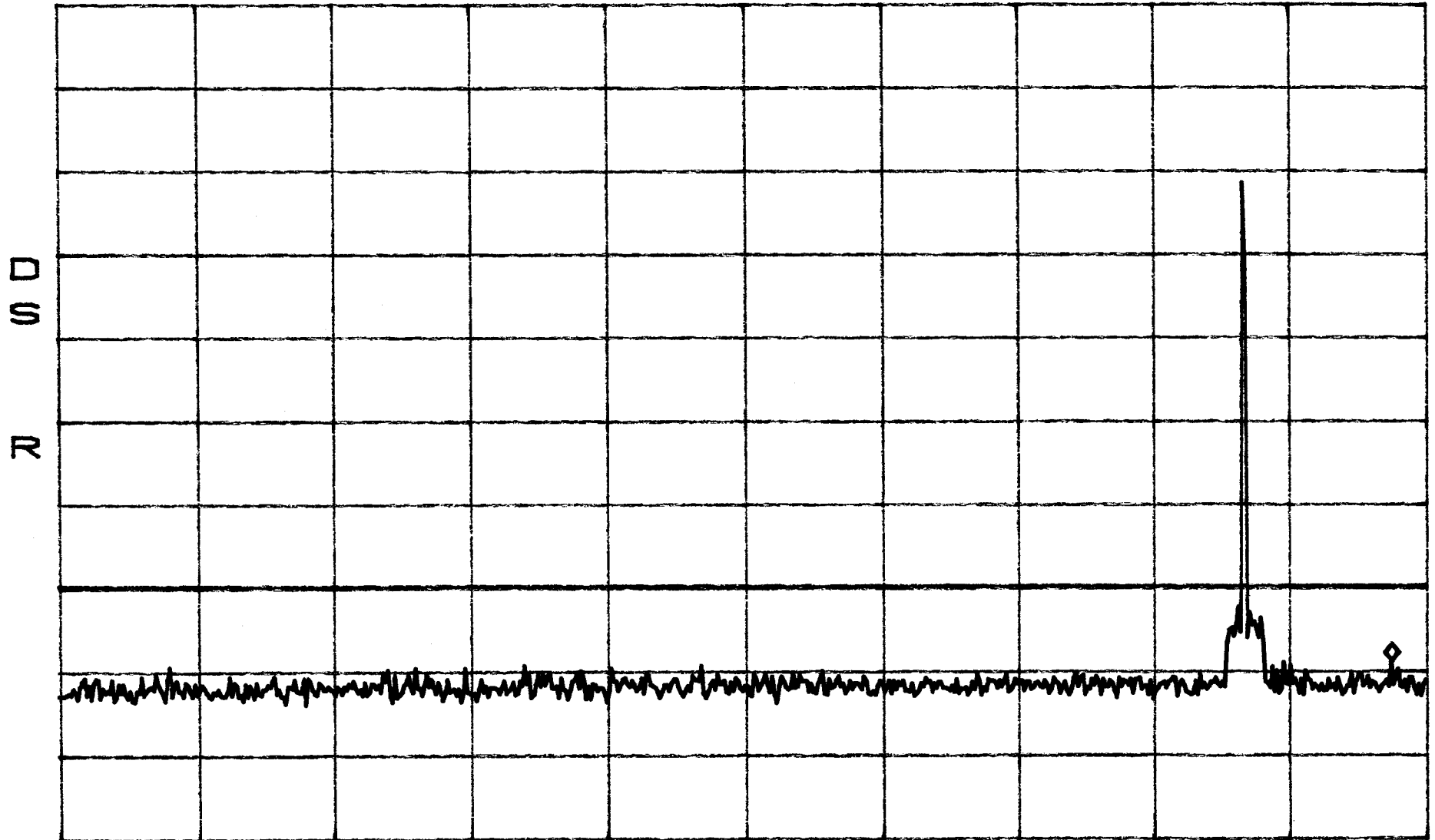
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band B
CDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -21.87dBm
975.8MHz



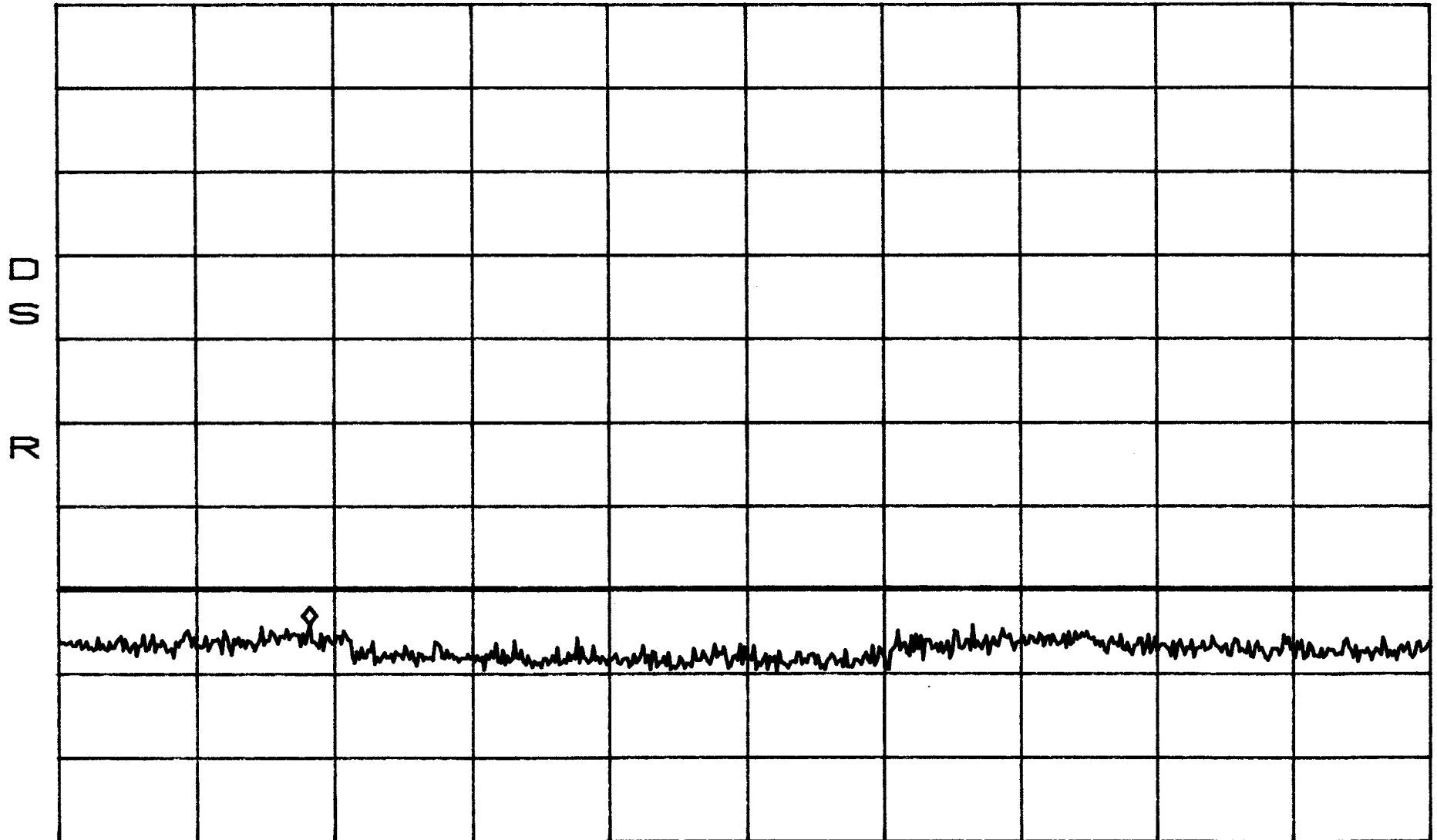
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B
CDMA

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -17.20dBm
2.635GHz



START 1.000GHz

STOP 10.000GHz

*RBW 100kHz

VBW 100kHz

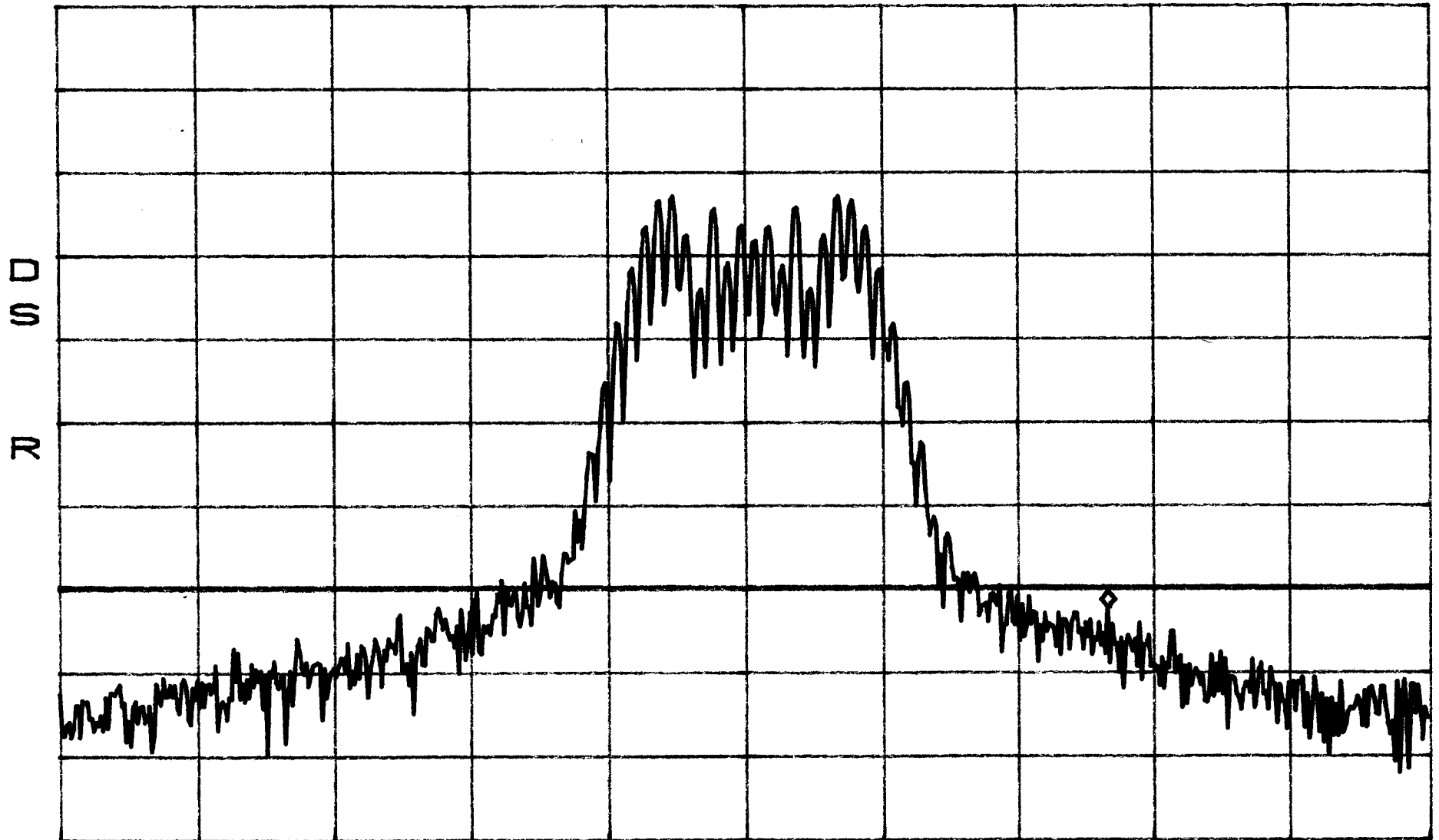
SWP 2.3sec

Conducted Emissions Band A
Band Edge
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -15.37dBm
869.2267MHz



CENTER 869.2000MHz
*RBW 300Hz VBW 300Hz

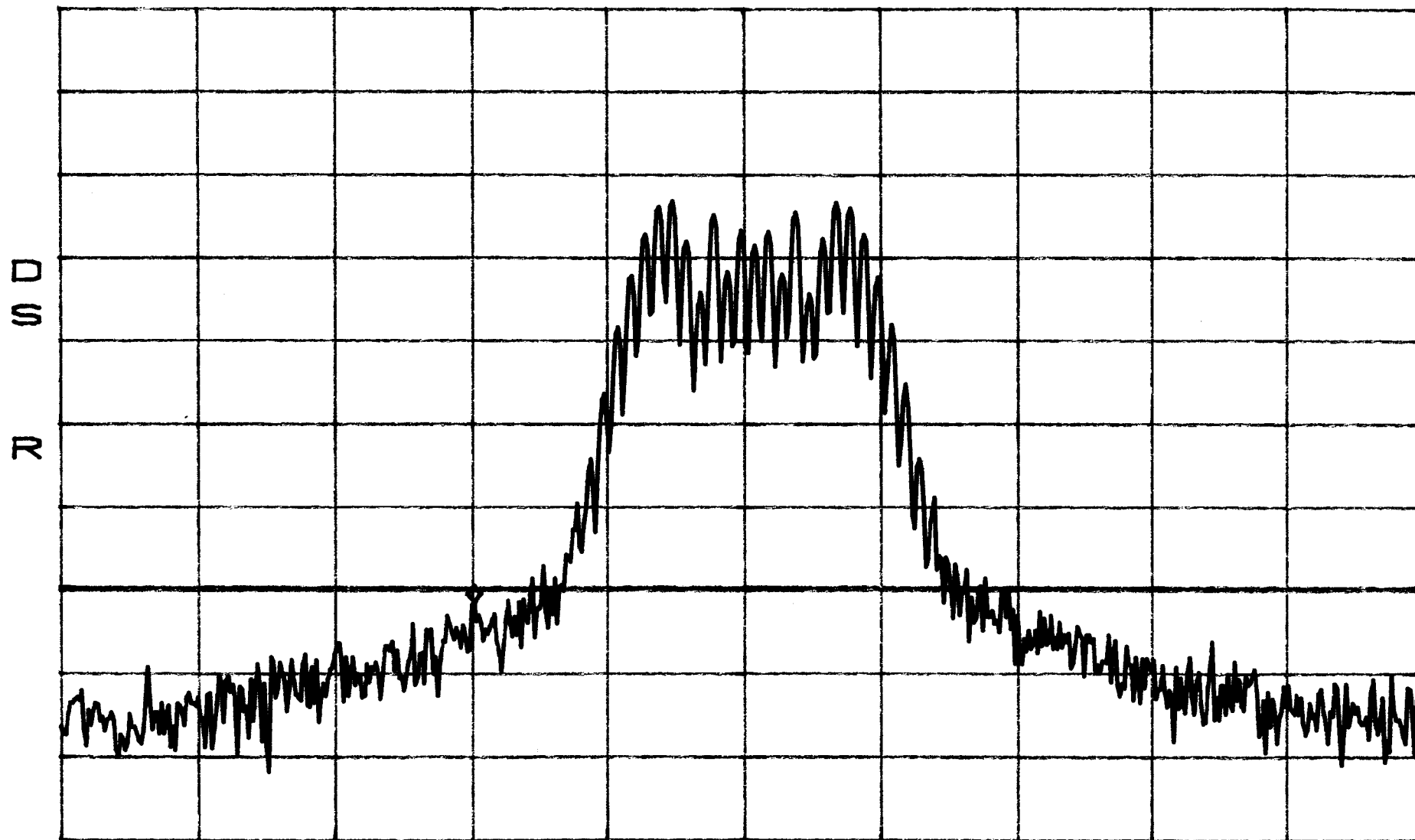
SPAN 100.0kHz
SWP 2.8sec

Conducted Emissions Band A
Band Edge
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -14.53dBm
891.2802MHz



CENTER 891.3000MHz
*RBW 300Hz VBW 300Hz

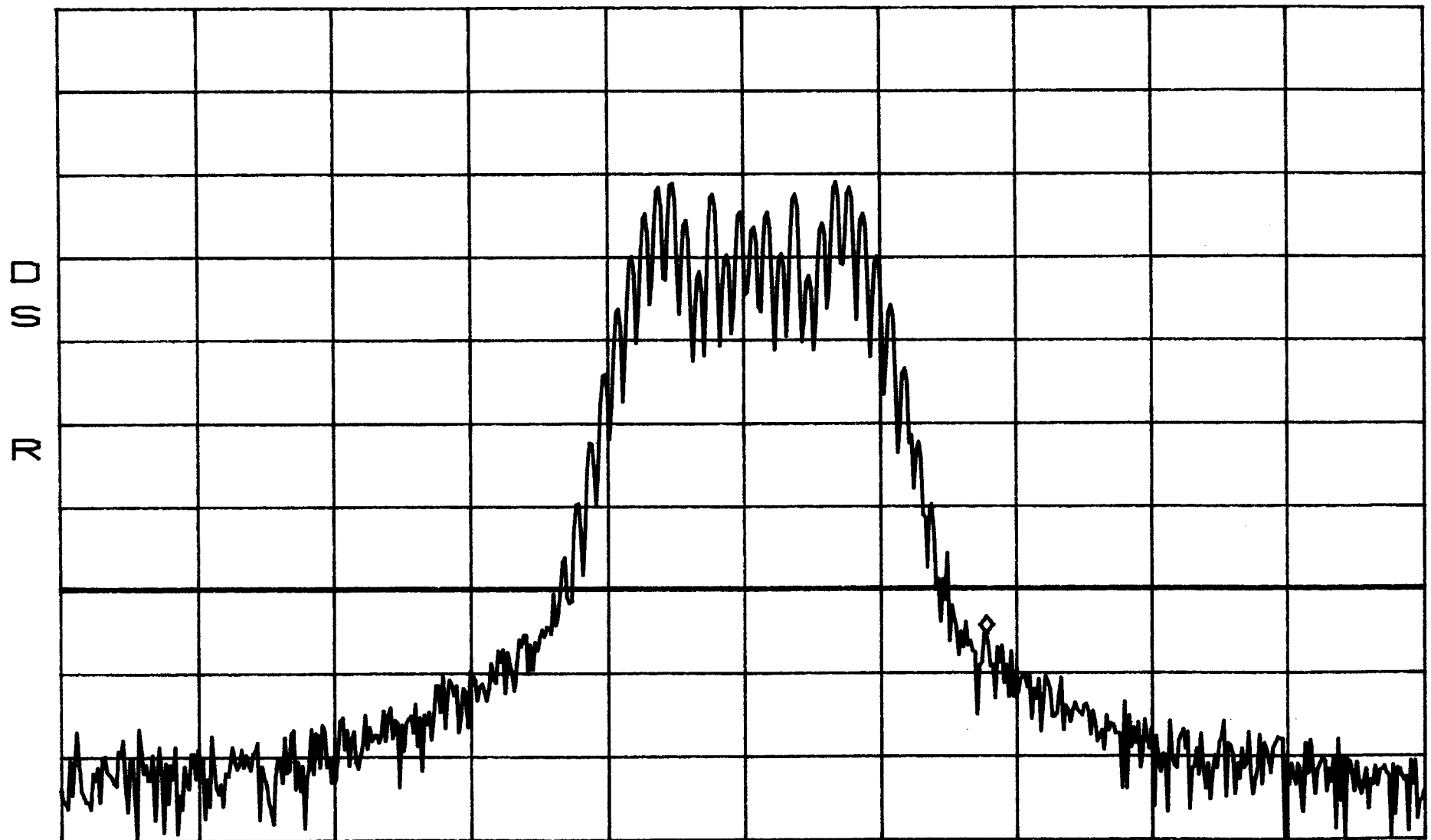
SPAN 100.0kHz
SWP 2.8sec

Conducted Emissions Band B
Band Edge
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -18.37dBm
880.2178MHz



CENTER 880.2000MHz
*RBW 300Hz VBW 300Hz

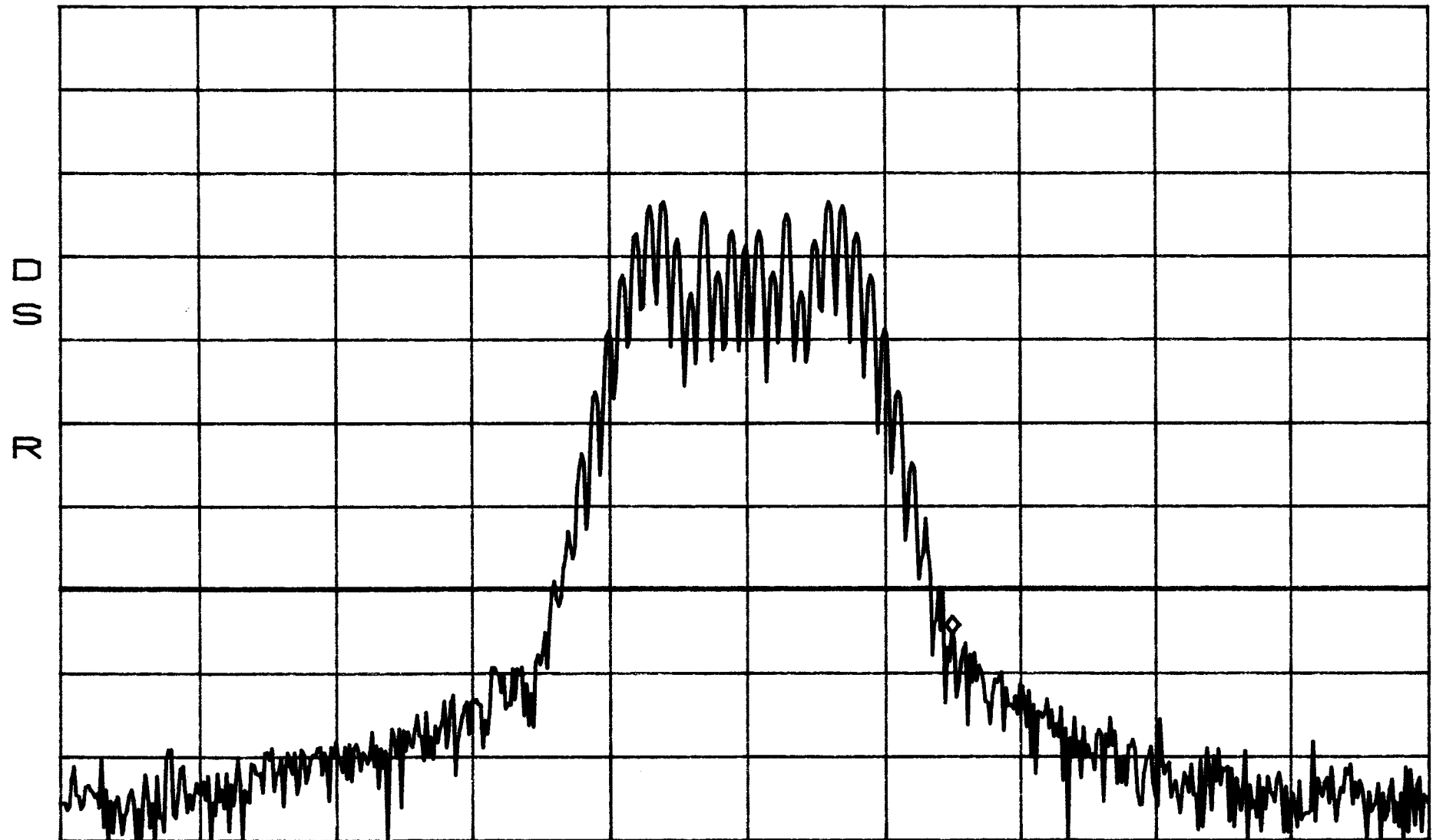
SPAN 100.0kHz
SWP 2.8sec

Conducted Emissions Band B
Band Edge
FM

*ATTEN 10dB
RL 56.8dBm

10dB/

MKR -18.37dBm
893.8158MHz



CENTER 893.8008MHz SPAN 100.0kHz
*RBW 300Hz VBW 300Hz SWP 2.8sec

**Occupied Bandwidth Modulation Test for ADC Inc.
Digivance Long Range Coverage System
Model Numbers DGVL-112110SYS and DGVL-122110SYS.**

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)

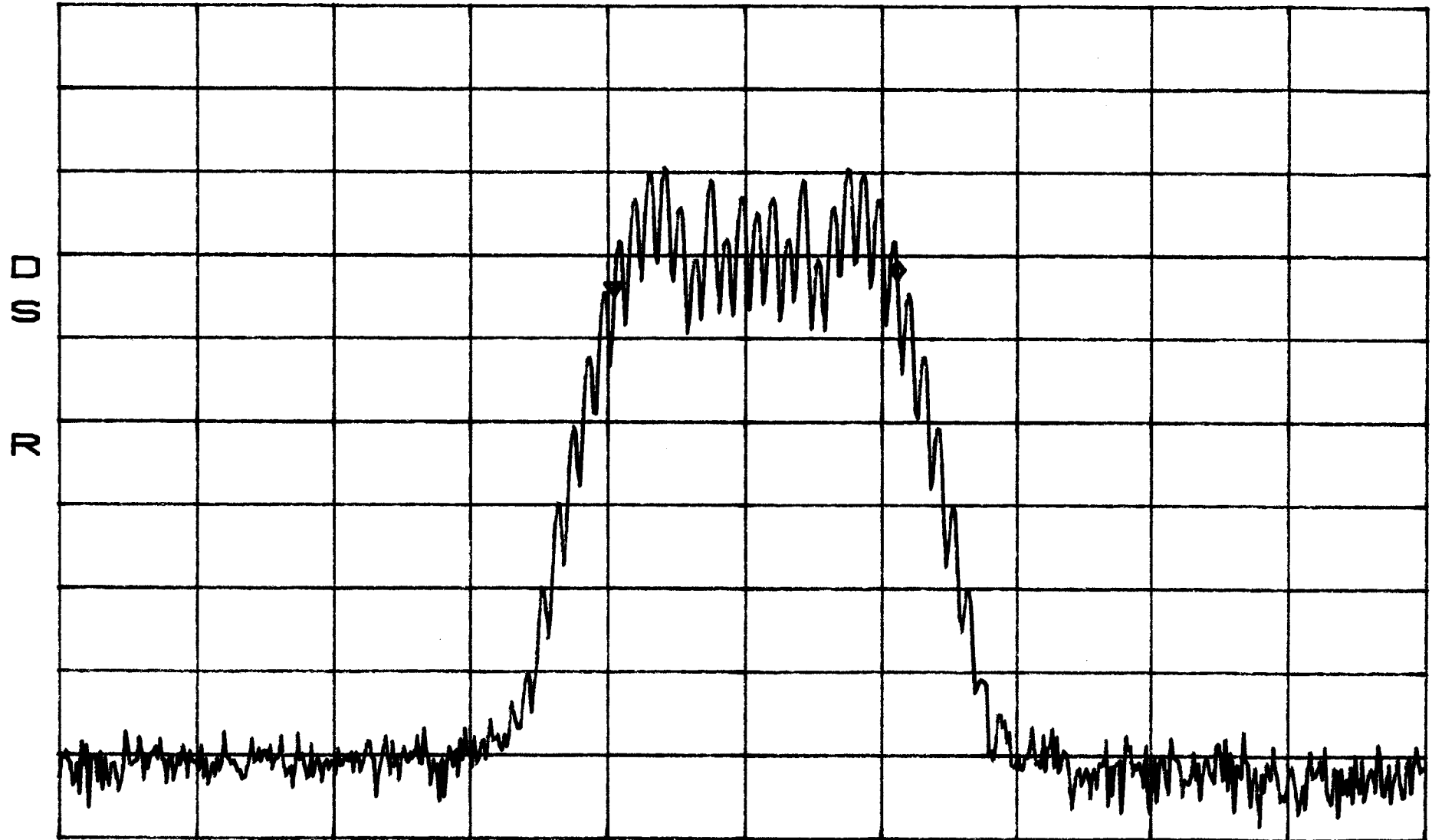
Occupied Band Width
Fm IN

BAND A

*ATTEN 10dB
RL 46.8dBm

10dB/

ΔMKR 2.00dB
18.60kHz



CENTER 879.00000MHz
*RBW 300Hz *VBW 3.0kHz

SPAN 90.00kHz
SWP 2.5sec

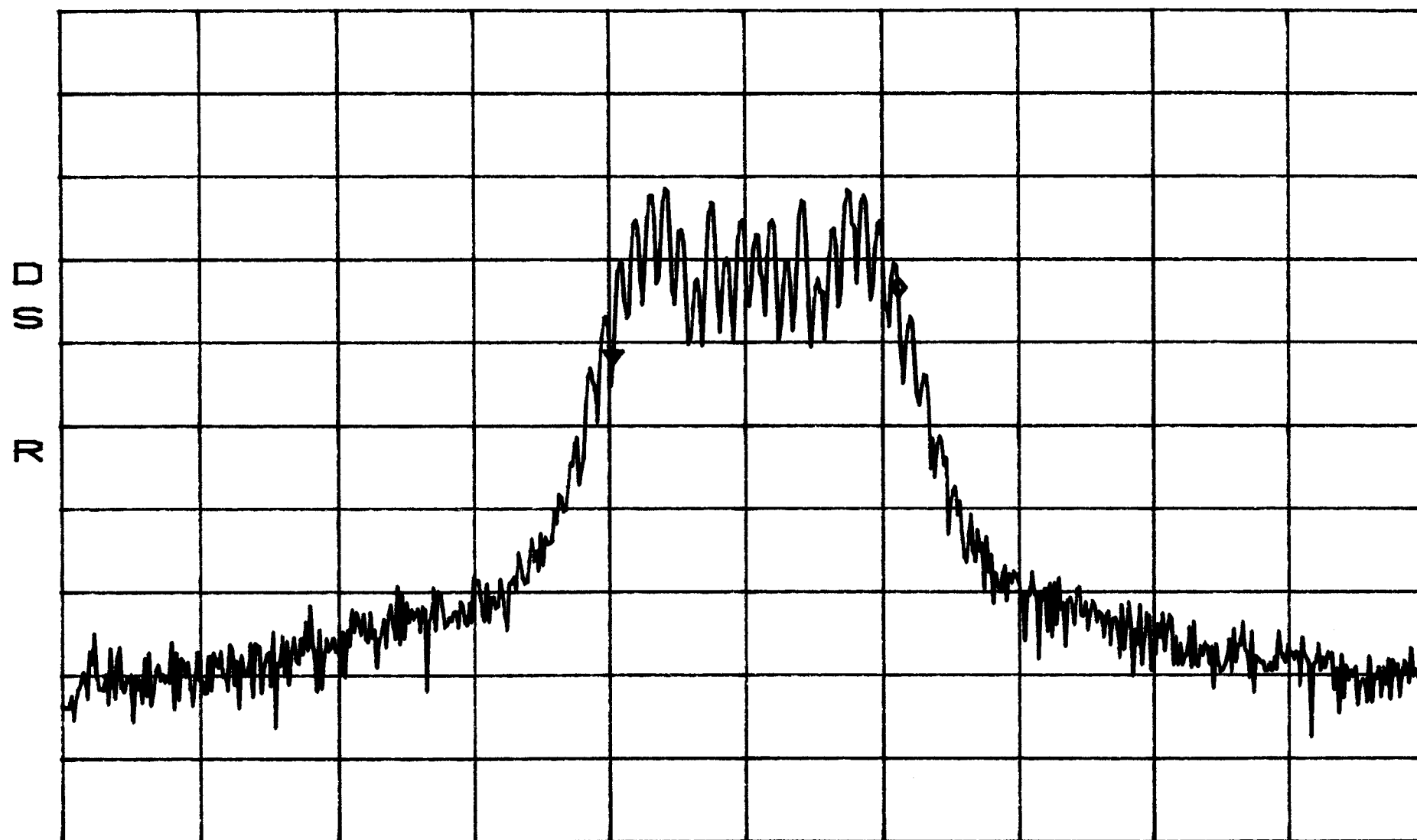
Occupied Band Width
FM OUT

BAND A

*ATTEN 10dB
RL 56.8dBm

10dB/

Δ MKR 8.00dB
18.75kHz



CENTER 879.00000MHz

SPAN 90.00kHz

*RBW 300Hz

*VBW 3.0kHz

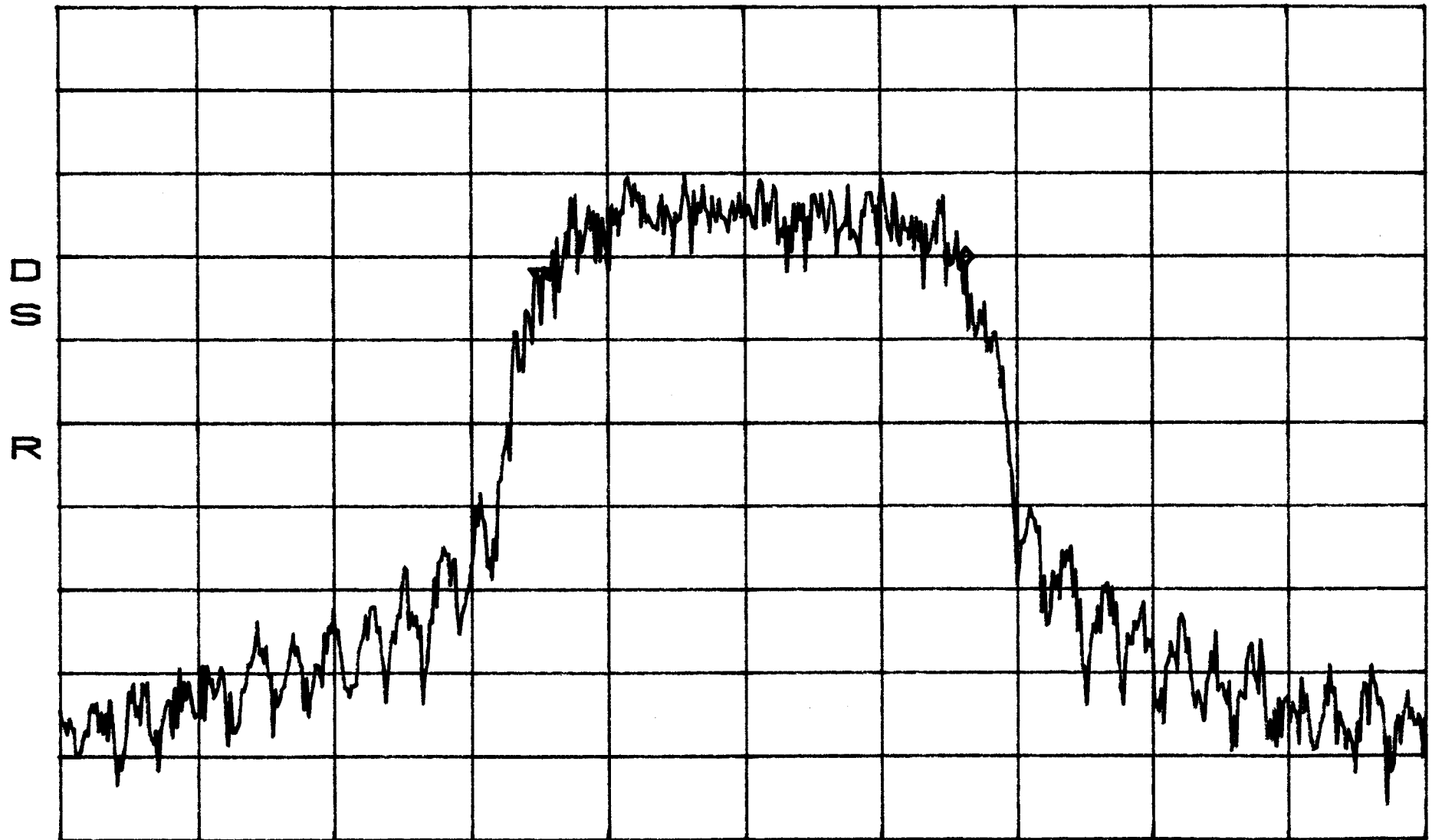
SWP 2.5sec

Occupied Band width BAND A
TDMA IN

*ATTEN 10dB
RL 46.8dBm

10dB/

Δ MKR 1.83dB
28.20kHz



CENTER 879.00000MHz

SPAN 90.00kHz

*RBW 300Hz

*VBW 3.0kHz

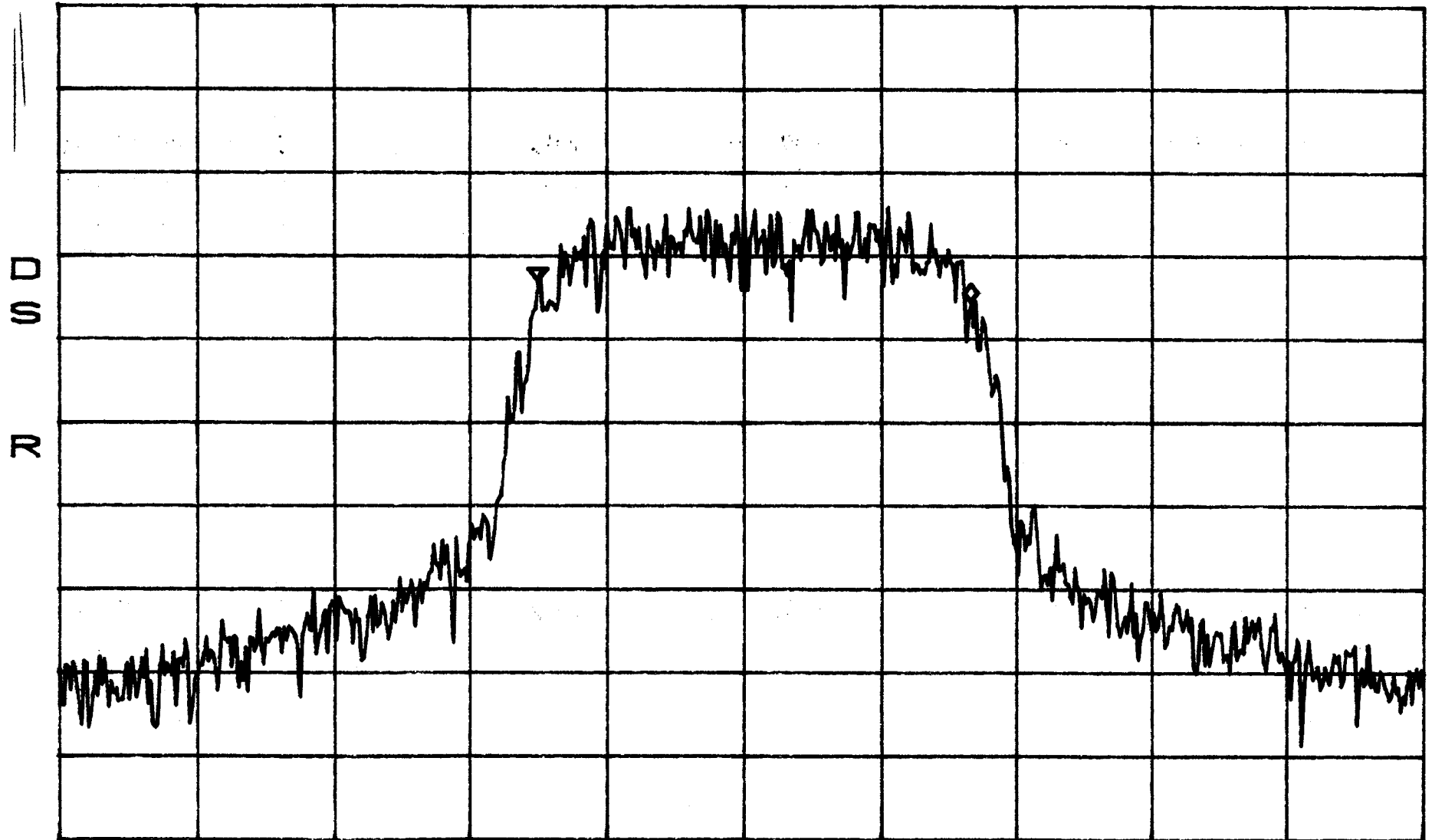
SWP 2.5sec

Occupied Band Width BAND A
TDMA OUT

*ATTEN 10dB
RL 56.8dBm

10dB/

ΔMKR -2.50dB
28.50kHz



CENTER 879.00000MHz

SPAN 90.00kHz

*RBW 300Hz

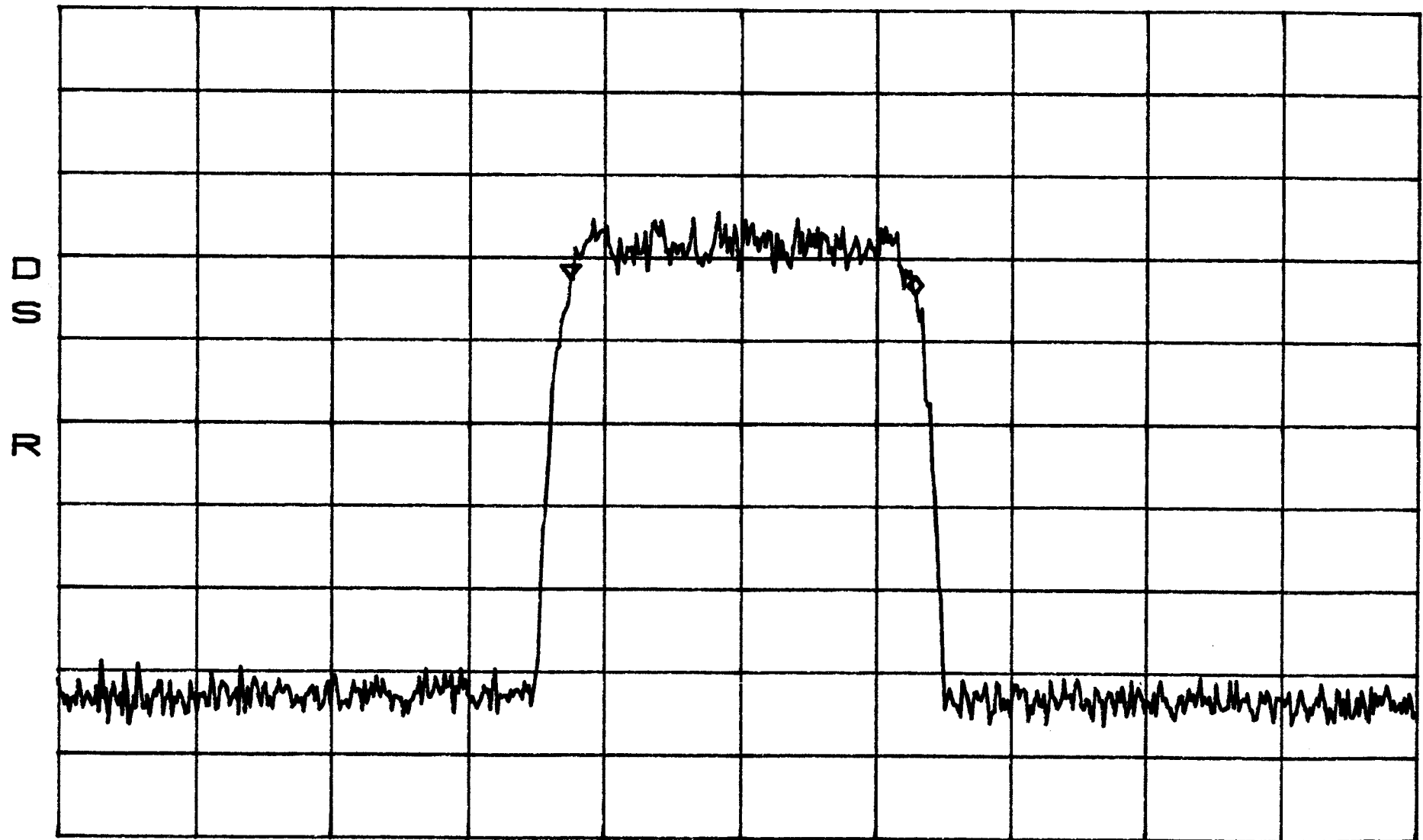
*VBW 3.0kHz

SWP 2.5sec

Occupied BAND width BAND A
CDMA IN

*ATTEN 10dB
RL 46.8dBm

$\Delta MKR -1.83dB$
1.267MHz



CENTER 879.000MHz

SPAN 5.000MHz

*RBW 10kHz

*VBW 3.0kHz

SWP 420ms

Occupied Band width BAND A
CDMA OUT

*ATTEN 10dB
RL 56.8dBm

Δ MKR 3.66dB
1.267MHz

10dB/BPO1



CENTER 879.000MHz

SPAN 5.000MHz

*RBW 10kHz

*VBW 3.0kHz

SWP 420ms

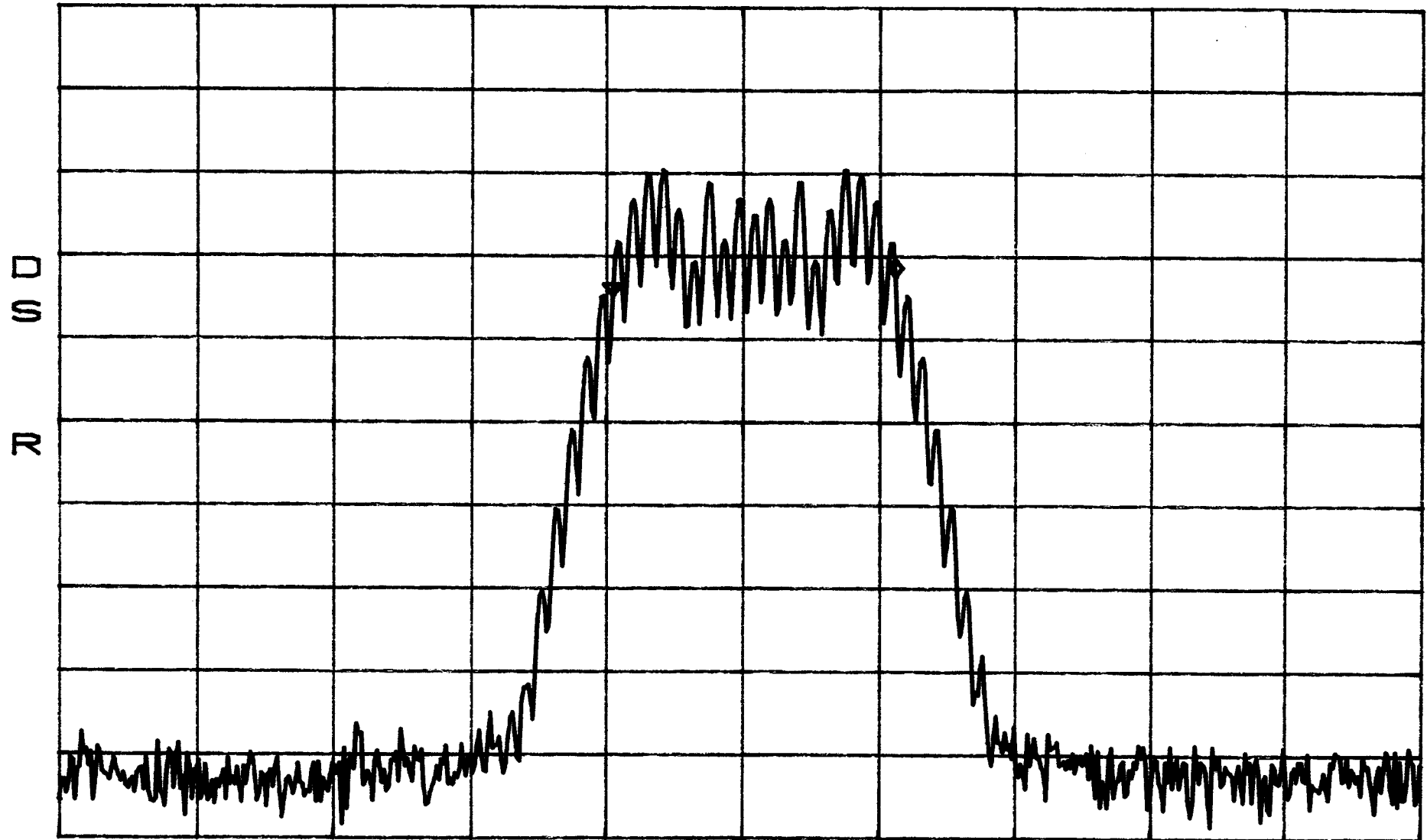
Occupied Band Width
Fm IN

BAND B

*ATTEN 10dB
RL 46.8dBm

10dB/

Δ MKR 2.34dB
18.60kHz



CENTER 887.00000MHz
*RBW 300Hz *VBW 3.0kHz

SPAN 90.00kHz
SWP 2.5sec

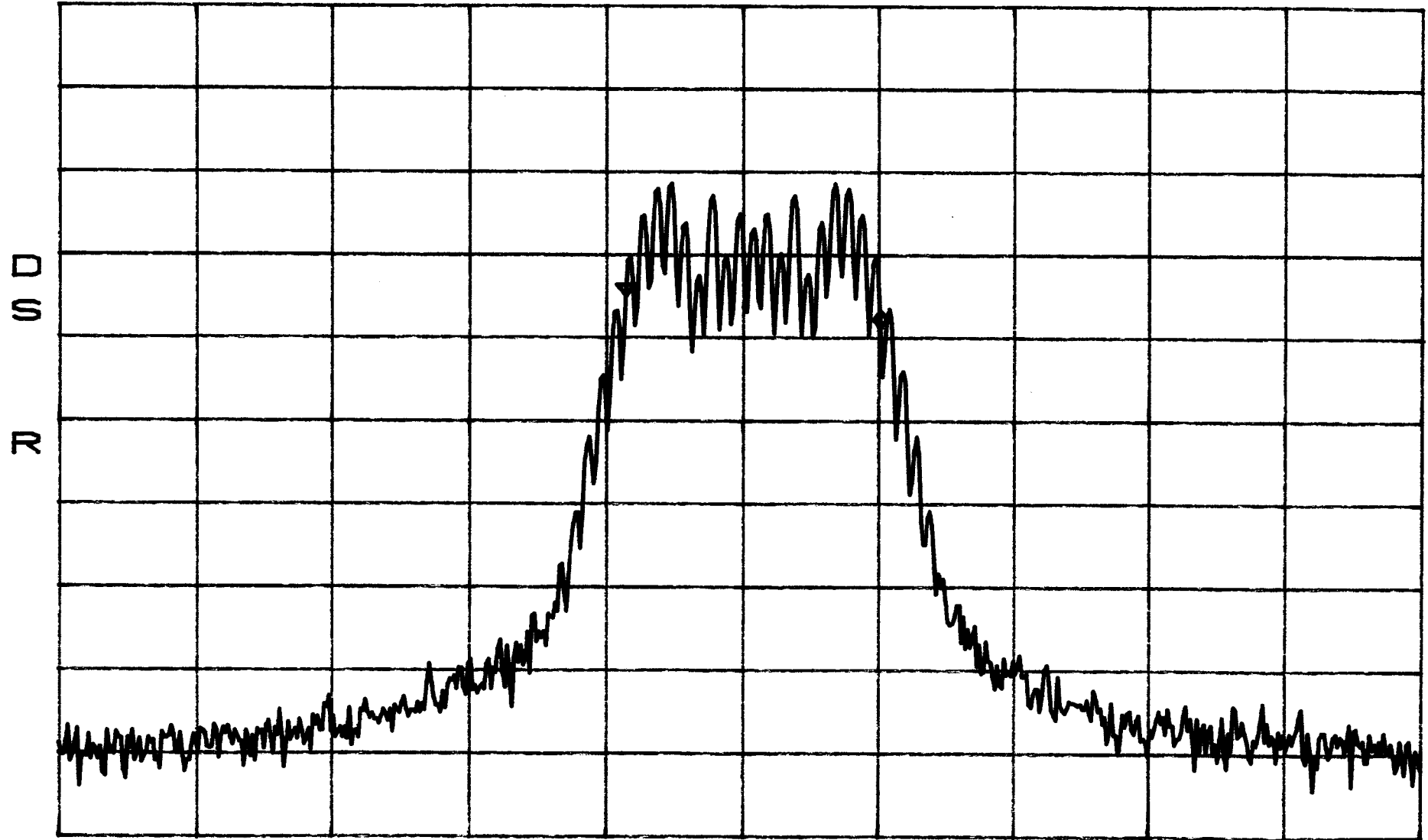
Occupied Band Width
FM OUT

BAND B

*ATTEN 10dB
RL 56.8dBm

10dB/

$\Delta MKR -3.84dB$
18.7kHz



CENTER 887.0000MHz
*RBW 300Hz *VBW 3.0kHz

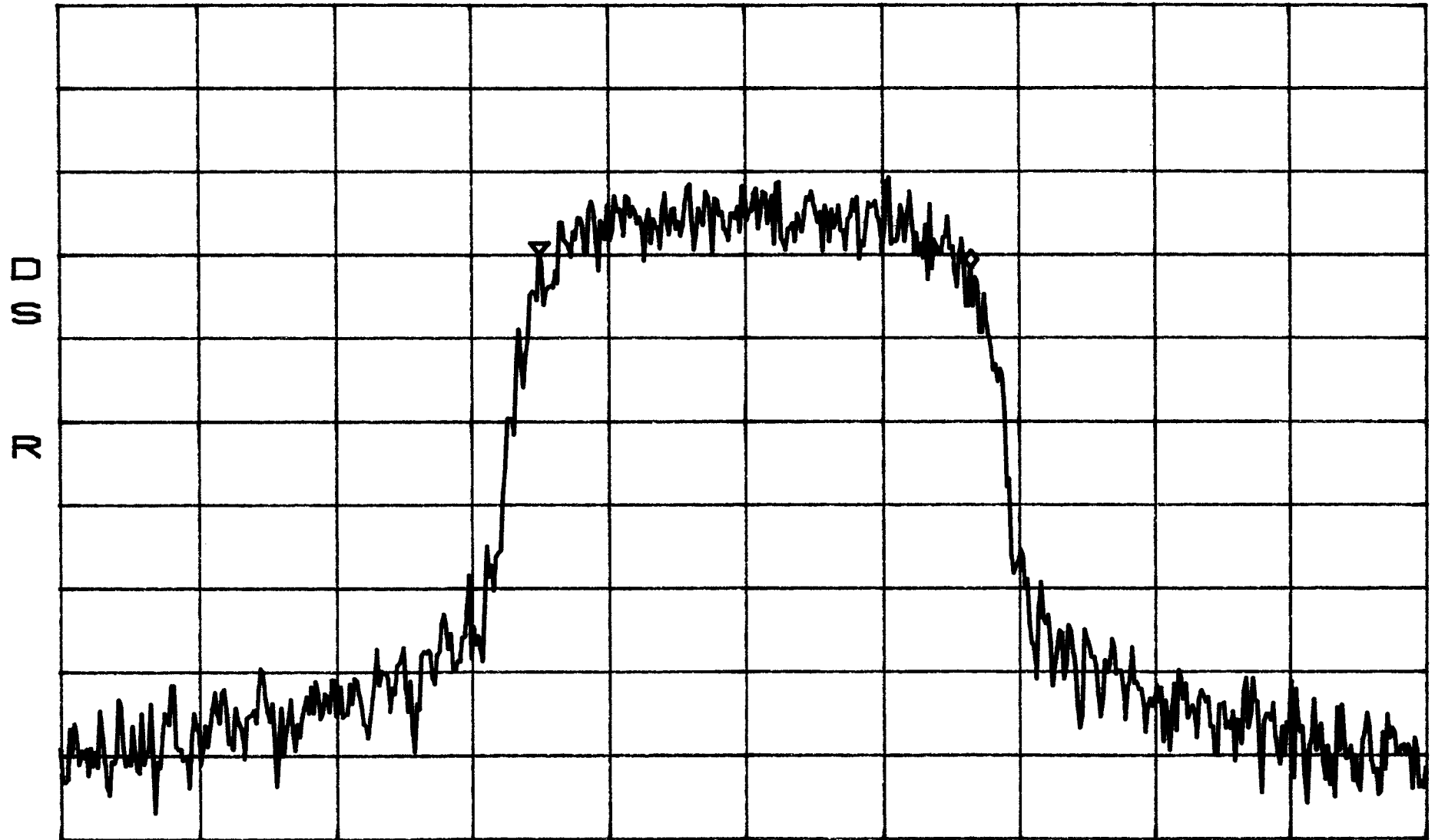
SPAN 100.0kHz
SWP 2.8sec

Occupied Band Width BAND B
TDMA IN

*ATTEN 10dB
RL 46.8dBm

10dB/

$\Delta MKR -1.67dB$
28.35kHz



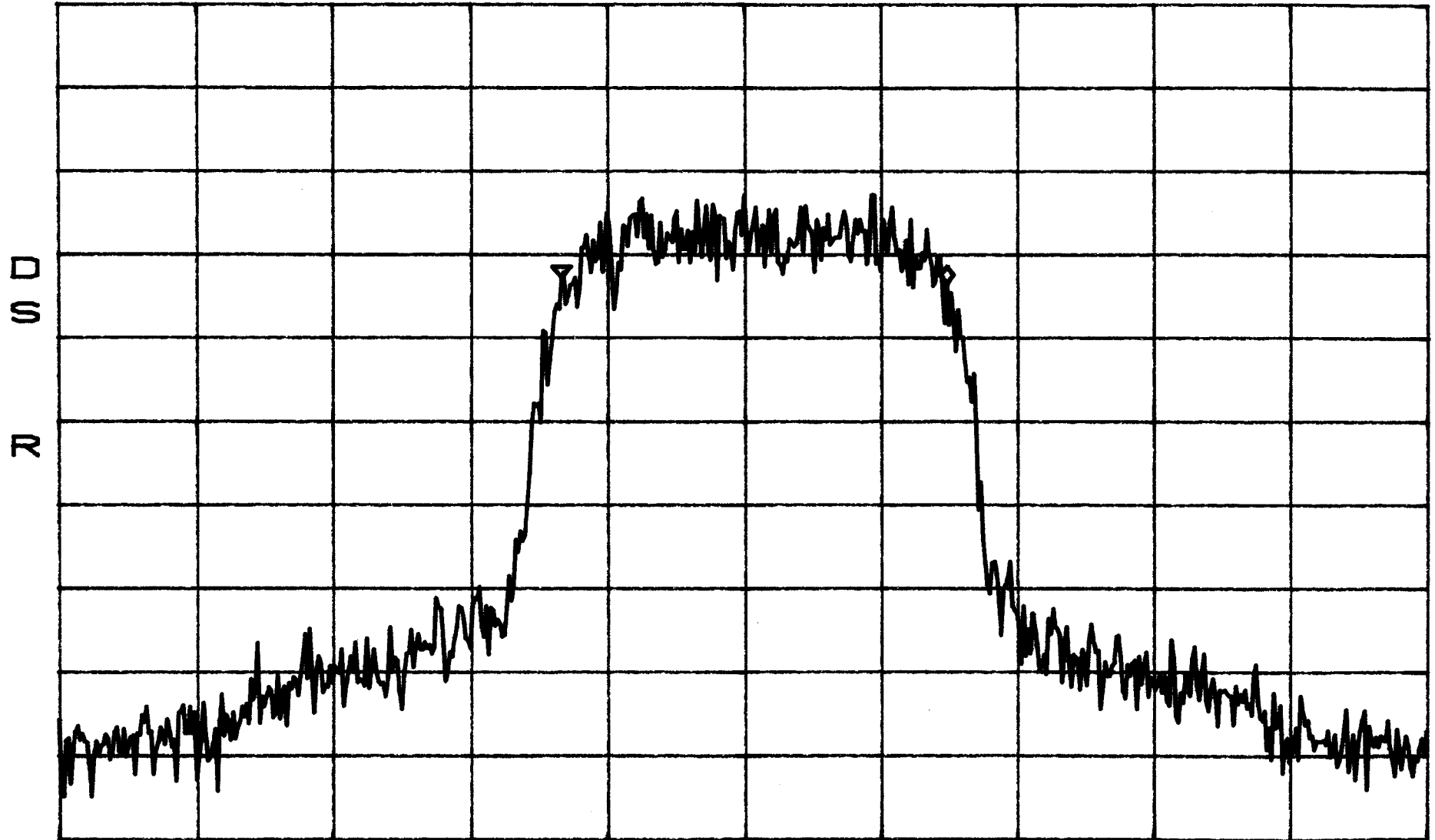
CENTER 887.00000MHz SPAN 90.00kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.5sec

Occupied Band Width BAND B
TDMA OUT

*ATTEN 10dB
RL 56.8dBm

10dB/

ΔMKR -.66dB
28.2kHz



CENTER 887.0000MHz SPAN 100.0kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.8sec

Occupied Band width BAND B
CDMA IN

*ATTN 10dB
RL 46.8dBm

10dB/

Δ MKR -1.17dB
1.275MHz



CENTER 887.000MHz SPAN 5.000MHz
*RBW 10kHz *VBW 3.0kHz SWP 420ms

Occupied Band width BAND B
CDMA OUT

*ATTEN 10dB

RL 56.8dBm

Δ MKR -3.00dB

10dB/BPO1

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. 3 case radiation emission scans were performed. The highest emission frequency from each of 3 scans is listed below.

Run 1		
Frequency MHz	dBuV/m(from EUT)	Substitution power level - dBm
1774	73.9	-25
Run 2		
Frequency MHz	dBuV/m(from EUT)	Substitution power level - dBm
709.98	61.5	-35.6
Run 3		
Frequency MHz	dBuV/m(from EUT)	Substitution power level - dBm
425.95	77.3	-22.9

Case Radiation data is on the following pages:

Radiated Electromagnetic Emissions



Test Report #: **201192 Run 01** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **12-Mar-2002**
 EUT Model #: **DIGIVANCE** EUT Power: **30 VDC/110 VAC**
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **1** of **6**

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	erp limit dBm
38.50	62.2 Qp	0.7 / 17.7 / 27.8	52.8	V / 1.0 / 0.0	N/A	N/A
39.50	59.3 Qp	0.7 / 17.3 / 27.8	49.5	V / 1.0 / 0.0	N/A	N/A
56.70	61.8 Qp	0.8 / 12.8 / 27.9	47.5	V / 1.0 / 0.0	N/A	N/A
73.90	64.5 Qp	0.9 / 8.5 / 27.9	46.0	V / 1.0 / 0.0	N/A	N/A
76.45	64.1 Qp	0.9 / 8.1 / 27.9	45.3	V / 1.0 / 0.0	N/A	N/A
75.45	64.0 Qp	0.9 / 8.4 / 27.9	45.5	V / 1.0 / 0.0	N/A	N/A
117.00	45.9 Qp	1.2 / 9.5 / 28.0	28.6	V / 1.0 / 0.0	N/A	N/A
142.00	70.7 Qp	1.3 / 9.3 / 27.9	53.3	V / 1.0 / 0.0	N/A	N/A
132.70	50.7 Qp	1.3 / 8.4 / 27.9	32.5	V / 1.0 / 0.0	N/A	N/A
155.00	62.4 Qp	1.4 / 9.2 / 27.9	45.1	V / 1.0 / 0.0	N/A	N/A
166.92	49.3 Qp	1.5 / 8.9 / 27.9	31.8	V / 1.0 / 0.0	N/A	N/A
198.10	51.7 Qp	1.6 / 11.2 / 27.8	36.7	V / 1.0 / 0.0	N/A	N/A
200.00	51.4 Qp	1.6 / 11.1 / 27.8	36.3	V / 1.0 / 0.0	N/A	N/A
213.00	55.9 Qp	1.6 / 11.1 / 27.7	40.9	V / 1.0 / 0.0	N/A	N/A
284.00	54.6 Qp	1.9 / 12.5 / 27.8	41.3	V / 1.0 / 0.0	N/A	N/A
317.50	48.4 Qp	2.0 / 14.0 / 27.7	36.7	V / 1.0 / 0.0	N/A	N/A
362.70	43.5 Qp	2.2 / 15.3 / 27.7	33.3	V / 1.0 / 0.0	N/A	N/A
426.00	46.2 Qp	2.4 / 16.9 / 27.7	37.8	V / 1.0 / 0.0	N/A	N/A
497.00	40.3 Qp	2.6 / 17.3 / 27.6	32.7	V / 1.0 / 0.0	N/A	N/A
568.00	47.9 Qp	2.8 / 18.6 / 27.5	41.9	V / 1.0 / 0.0	N/A	N/A
710.00	57.3 Qp	3.2 / 20.4 / 27.4	53.4	V / 1.0 / 0.0	N/A	N/A
781.00	34.1 Qp	3.3 / 21.8 / 27.4	31.8	V / 1.0 / 0.0	N/A	N/A
887.00	65.0 Qp	3.6 / 22.7 / 27.2	64.1	V / 1.0 / 0.0	N/A	N/A
887 MHZ IS XMIT FREQUENCY						
923.00	41.0 Qp	3.7 / 23.1 / 27.2	40.6	V / 1.0 / 0.0	N/A	N/A
952.35	36.6 Qp	3.9 / 23.1 / 27.2	36.4	V / 1.0 / 0.0	N/A	N/A
1065.00	40.4 Qp	4.0 / 23.1 / 27.2	40.2	V / 1.0 / 0.0	N/A	N/A

Tested by: **J. T. Schneider**

Printed

Joel T. Schneider

Signature

Reviewed by: **TKS**

Printed

Thomas K. Swanson

Signature

Radiated Electromagnetic Emissions



Test Report #: **201192 Run 01** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **12-Mar-2002**
 EUT Model #: **DIGIVANCE** EUT Power: **30 VDC/110 VAC**
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **2** of **6**

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	erp limit dBm
1207.00	39.1 Qp	4.5 / 24.4 / 27.2	40.9	V / 1.0 / 0.0	N/A	N/A
1278.00	31.7 Qp	4.5 / 25.1 / 27.5	33.8	V / 1.0 / 0.0	N/A	N/A
1349.00	41.0 Qp	4.5 / 25.7 / 27.5	43.7	V / 1.0 / 0.0	N/A	N/A
1420.00	35.0 Qp	4.8 / 27.3 / 27.4	39.7	V / 1.0 / 0.0	N/A	N/A
1491.00	37.9 Qp	5.1 / 27.1 / 27.3	42.8	V / 1.0 / 0.0	N/A	N/A
1562.00	37.0 Qp	5.2 / 27.2 / 27.4	42.0	V / 1.0 / 0.0	N/A	N/A
1633.00	31.0 Qp	5.4 / 28.1 / 27.2	37.2	V / 1.0 / 0.0	N/A	N/A
1774.00	54.6 Qp	5.6 / 28.7 / 27.2	61.8	V / 1.0 / 0.0	N/A	N/A
1846.00	32.1 Qp	6.0 / 28.2 / 27.1	39.2	V / 1.0 / 0.0	N/A	N/A
1917.00	33.2 Qp	6.5 / 28.5 / 26.9	41.3	V / 1.0 / 0.0	N/A	N/A
1955.80	36.6 Qp	6.7 / 28.7 / 26.8	45.3	V / 1.0 / 0.0	N/A	N/A
2661.00	29.8 Qp	7.4 / 31.0 / 27.0	41.2	V / 1.0 / 0.0	N/A	N/A
2840.00	36.6 Qp	7.6 / 31.4 / 27.1	48.5	V / 1.0 / 0.0	N/A	N/A
4544.00	39.7 Qp	9.4 / 34.0 / 39.9	43.2	V / 1.0 / 0.0	N/A	N/A
1774.00	58.3 Qp	5.6 / 28.7 / 27.2	65.5	V / 1.0 / 0.0	N/A	N/A
56.70	62.9 Qp	0.8 / 12.8 / 27.9	48.6	V / 1.0 / 90.0	N/A	N/A
117.00	47.3 Qp	1.2 / 9.5 / 28.0	30.0	V / 1.0 / 90.0	N/A	N/A
132.70	54.4 Qp	1.3 / 8.4 / 27.9	36.1	V / 1.0 / 90.0	N/A	N/A
142.00	74.5 Qp	1.3 / 9.3 / 27.9	57.2	V / 1.0 / 90.0	N/A	N/A
284.00	56.9 Qp	1.9 / 12.5 / 27.8	43.5	V / 1.0 / 90.0	N/A	N/A
426.00	53.2 Qp	2.4 / 16.9 / 27.7	44.8	V / 1.0 / 90.0	N/A	N/A
497.00	46.4 Qp	2.6 / 17.3 / 27.6	38.8	V / 1.0 / 90.0	N/A	N/A
781.00	43.3 Qp	3.3 / 21.8 / 27.4	41.0	V / 1.0 / 90.0	N/A	N/A
923.00	42.8 Qp	3.7 / 23.1 / 27.2	42.4	V / 1.0 / 90.0	N/A	N/A
1278.00	36.4 Qp	4.5 / 25.1 / 27.5	38.5	V / 1.0 / 90.0	N/A	N/A
1420.00	37.1 Qp	4.8 / 27.3 / 27.4	41.8	V / 1.0 / 90.0	N/A	N/A
1633.00	37.8 Qp	5.4 / 28.1 / 27.2	44.0	V / 1.0 / 90.0	N/A	N/A

Tested by: **J. T. Schneider**

Printed

Joel T. Schneider

Signature

Reviewed by: **TKS**

Printed

Thomas K. Swanson

Signature

Radiated Electromagnetic Emissions



Test Report #:	201192 Run 01	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	12-Mar-2002		
EUT Model #:	DIGIVANCE LRCS800MHZ	EUT Power:	30 VDC/110 VAC		
EUT Serial #:				Temperature:	21 °C
Manufacturer:	ADC			Relative Humidity:	7 %
EUT Description:	HOST/STM			Air Pressure:	98.6 kPa
Notes:				Page:	3 of 6

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	erp limit dBm
1774.00	60.2 Qp	5.6 / 28.7 / 27.2	67.4	V / 1.0 / 90.0	N/A	N/A
56.70	63.4 Qp	0.8 / 12.8 / 27.9	49.2	V / 1.0 / 180.0	N/A	N/A
142.00	75.2 Qp	1.3 / 9.3 / 27.9	57.8	V / 1.0 / 180.0	N/A	N/A
166.92	53.6 Qp	1.5 / 8.9 / 27.9	36.0	V / 1.0 / 180.0	N/A	N/A
213.00	59.5 Qp	1.6 / 11.1 / 27.7	44.4	V / 1.0 / 180.0	N/A	N/A
284.00	58.8 Qp	1.9 / 12.5 / 27.8	45.4	V / 1.0 / 180.0	N/A	N/A
426.00	61.6 Qp	2.4 / 16.9 / 27.7	53.2	V / 1.0 / 180.0	N/A	N/A
923.00	44.8 Qp	3.7 / 23.1 / 27.2	44.4	V / 1.0 / 180.0	N/A	N/A
1065.00	43.6 Qp	4.0 / 23.1 / 27.2	43.4	V / 1.0 / 180.0	N/A	N/A
1420.00	42.8 Qp	4.8 / 27.3 / 27.4	47.5	V / 1.0 / 180.0	N/A	N/A
1491.00	49.1 Qp	5.1 / 27.1 / 27.3	54.0	V / 1.0 / 180.0	N/A	N/A
1562.00	42.2 Qp	5.2 / 27.2 / 27.4	47.2	V / 1.0 / 180.0	N/A	N/A
1633.00	39.5 Qp	5.4 / 28.1 / 27.2	45.7	V / 1.0 / 180.0	N/A	N/A
1917.00	34.8 Qp	6.5 / 28.5 / 26.9	43.0	V / 1.0 / 180.0	N/A	N/A
39.50	59.8 Qp	0.7 / 17.3 / 27.8	50.0	V / 1.0 / 270.0	N/A	N/A
284.00	60.5 Qp	1.9 / 12.5 / 27.8	47.1	V / 1.0 / 270.0	N/A	N/A
781.00	45.3 Qp	3.3 / 21.8 / 27.4	42.9	V / 1.0 / 270.0	N/A	N/A
1278.00	37.6 Qp	4.5 / 25.1 / 27.5	39.7	V / 1.0 / 270.0	N/A	N/A
1562.00	47.7 Qp	5.2 / 27.2 / 27.4	52.7	V / 1.0 / 270.0	N/A	N/A
1633.00	41.8 Qp	5.4 / 28.1 / 27.2	48.0	V / 1.0 / 270.0	N/A	N/A
1846.00	36.3 Qp	6.0 / 28.2 / 27.1	43.4	V / 1.0 / 270.0	N/A	N/A
1917.00	34.9 Qp	6.5 / 28.5 / 26.9	43.1	V / 1.0 / 270.0	N/A	N/A
1774.00	66.7 Qp	5.6 / 28.7 / 27.2	73.9	V / 1.0 / 80.0	N/A	N/A
284.00	61.4 Qp	1.9 / 12.5 / 27.8	48.0	V / 3.0 / 90.0	N/A	N/A
284.00	64.8 Qp	1.9 / 12.5 / 27.8	51.5	V / 1.9 / 50.0	N/A	N/A
132.70	56.1 Qp	1.3 / 8.4 / 27.9	37.8	H / 3.0 / 90.0	N/A	N/A
142.00	79.7 Qp	1.3 / 9.3 / 27.9	62.3	H / 3.0 / 90.0	N/A	N/A

Tested by: J. T. Schneider

Printed

Joel T. Schneider

Signature

Reviewed by: TKS

Printed

Thomas K. Swanson

Signature

Radiated Electromagnetic Emissions



Test Report #: 201192 Run 01 Test Area: LTS 3m
 Test Method: N/A Test Date: 12-Mar-2002
 EUT Model #: DIGIVANCE EUT Power: 30 VDC/110 VAC
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: ADC
 EUT Description: HOST/STM
 Notes: _____

Temperature: 21 °C
 Relative Humidity: 7 %
 Air Pressure: 98.6 kPa
 Page: 4 of 6

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	erp limit dBm
213.00	64.8 Qp	1.6 / 11.1 / 27.7	49.8	H / 3.0 / 90.0	N/A	N/A
142.00	80.7 Qp	1.3 / 9.3 / 27.9	63.3	H / 2.0 / 90.0	N/A	N/A
213.00	66.3 Qp	1.6 / 11.1 / 27.7	51.3	H / 1.0 / 90.0	N/A	N/A
362.70	46.3 Qp	2.2 / 15.3 / 27.7	36.1	H / 1.0 / 90.0	N/A	N/A
497.00	51.0 Qp	2.6 / 17.3 / 27.6	43.4	H / 1.0 / 90.0	N/A	N/A
781.00	52.8 Qp	3.3 / 21.8 / 27.4	50.5	H / 1.0 / 90.0	N/A	N/A
1207.00	40.6 Qp	4.5 / 24.4 / 27.2	42.4	H / 1.0 / 90.0	N/A	N/A
284.00	69.2 Qp	1.9 / 12.5 / 27.8	55.8	H / 1.0 / 180.0	N/A	N/A
317.50	54.7 Qp	2.0 / 14.0 / 27.7	43.0	H / 1.0 / 180.0	N/A	N/A
923.00	47.3 Qp	3.7 / 23.1 / 27.2	46.9	H / 1.0 / 180.0	N/A	N/A
1065.00	52.0 Qp	4.0 / 23.1 / 27.2	51.8	H / 1.0 / 180.0	N/A	N/A
1207.00	47.5 Qp	4.5 / 24.4 / 27.2	49.3	H / 1.0 / 180.0	N/A	N/A
1917.00	38.1 Qp	6.5 / 28.5 / 26.9	46.3	H / 1.0 / 180.0	N/A	N/A
284.00	70.8 Qp	1.9 / 12.5 / 27.8	57.5	H / 1.0 / 270.0	N/A	N/A
426.00	63.6 Qp	2.4 / 16.9 / 27.7	55.2	H / 1.0 / 270.0	N/A	N/A
166.92	54.6 Qp	1.5 / 8.9 / 27.9	37.0	H / 1.0 / 0.0	N/A	N/A
284.00	72.4 Qp	1.9 / 12.5 / 27.8	59.1	H / 1.0 / 280.0	N/A	N/A
substitution at 1774 mhz; -25 dBm signal generator - 6.9 dB cable loss + 6.8 dBi gain = -25 dBm						
scanned 30-10000 mhz, 360 degrees, 1-4 meters high, vert. and hor. polarization						

Tested by: J. T. Schneider

Printed

Joel T. Schneider

Signature

Reviewed by: TKS

Printed

Thomas K. Swanson

Signature

Radiated Electromagnetic Emissions



Test Report #:	201192 Run 01	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	12-Mar-2002		
EUT Model #:	DIGIVANCE LRCS800MHZ	EUT Power:	30 VDC/110 VAC		
EUT Serial #:				Temperature:	21 °C
Manufacturer:	ADC			Relative Humidity:	7 %
EUT Description:	HOST/STM			Air Pressure:	98.6 kPa
Notes:				Page:	5 of 6

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	erp limit dBm
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***** MEASUREMENT SUMMARY *****						
38.50	62.2 Qp	0.7 / 17.7 / 27.8	52.8	V / 1.0 / 0.0	N/A	N/A
39.50	59.8 Qp	0.7 / 17.3 / 27.8	50.0	V / 1.0 / 270.0	N/A	N/A
56.70	63.4 Qp	0.8 / 12.8 / 27.9	49.2	V / 1.0 / 180.0	N/A	N/A
73.90	64.5 Qp	0.9 / 8.5 / 27.9	46.0	V / 1.0 / 0.0	N/A	N/A
75.45	64.0 Qp	0.9 / 8.4 / 27.9	45.5	V / 1.0 / 0.0	N/A	N/A
76.45	64.1 Qp	0.9 / 8.1 / 27.9	45.3	V / 1.0 / 0.0	N/A	N/A
117.00	47.3 Qp	1.2 / 9.5 / 28.0	30.0	V / 1.0 / 90.0	N/A	N/A
132.70	56.1 Qp	1.3 / 8.4 / 27.9	37.8	H / 3.0 / 90.0	N/A	N/A
142.00	80.7 Qp	1.3 / 9.3 / 27.9	63.3	H / 2.0 / 90.0	N/A	N/A
155.00	62.4 Qp	1.4 / 9.2 / 27.9	45.1	V / 1.0 / 0.0	N/A	N/A
166.92	54.6 Qp	1.5 / 8.9 / 27.9	37.0	H / 1.0 / 0.0	N/A	N/A
198.10	51.7 Qp	1.6 / 11.2 / 27.8	36.7	V / 1.0 / 0.0	N/A	N/A
200.00	51.4 Qp	1.6 / 11.1 / 27.8	36.3	V / 1.0 / 0.0	N/A	N/A
213.00	66.3 Qp	1.6 / 11.1 / 27.7	51.3	H / 1.0 / 90.0	N/A	N/A
284.00	72.4 Qp	1.9 / 12.5 / 27.8	59.1	H / 1.0 / 280.0	N/A	N/A
317.50	54.7 Qp	2.0 / 14.0 / 27.7	43.0	H / 1.0 / 180.0	N/A	N/A
362.70	46.3 Qp	2.2 / 15.3 / 27.7	36.1	H / 1.0 / 90.0	N/A	N/A
426.00	63.6 Qp	2.4 / 16.9 / 27.7	55.2	H / 1.0 / 270.0	N/A	N/A
497.00	51.0 Qp	2.6 / 17.3 / 27.6	43.4	H / 1.0 / 90.0	N/A	N/A
568.00	47.9 Qp	2.8 / 18.6 / 27.5	41.9	V / 1.0 / 0.0	N/A	N/A
710.00	57.3 Qp	3.2 / 20.4 / 27.4	53.4	V / 1.0 / 0.0	N/A	N/A
781.00	52.8 Qp	3.3 / 21.8 / 27.4	50.5	H / 1.0 / 90.0	N/A	N/A
923.00	47.3 Qp	3.7 / 23.1 / 27.2	46.9	H / 1.0 / 180.0	N/A	N/A
952.35	36.6 Qp	3.9 / 23.1 / 27.2	36.4	V / 1.0 / 0.0	N/A	N/A
1065.00	52.0 Qp	4.0 / 23.1 / 27.2	51.8	H / 1.0 / 180.0	N/A	N/A

Tested by: J. T. Schneider

Printed

Joel T. Schneider

Signature

Reviewed by: TKS

Printed

Thomas K. Swanson

Signature

Radiated Electromagnetic Emissions



Test Report #: 201192 Run 01 Test Area: LTS 3m
 Test Method: N/A Test Date: 12-Mar-2002
 EUT Model #: DIGIVANCE EUT Power: 30 VDC/110 VAC
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: ADC
 EUT Description: HOST/STM
 Notes: _____

Temperature: 21 °C
 Relative Humidity: 7 %
 Air Pressure: 98.6 kPa
 Page: 6 of 6

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	erp limit dBm
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***** MEASUREMENT SUMMARY *****						
1207.00	47.5 Qp	4.5 / 24.4 / 27.2	49.3	H / 1.0 / 180.0	N/A	N/A
1278.00	37.6 Qp	4.5 / 25.1 / 27.5	39.7	V / 1.0 / 270.0	N/A	N/A
1349.00	41.0 Qp	4.5 / 25.7 / 27.5	43.7	V / 1.0 / 0.0	N/A	N/A
1420.00	42.8 Qp	4.8 / 27.3 / 27.4	47.5	V / 1.0 / 180.0	N/A	N/A
1491.00	49.1 Qp	5.1 / 27.1 / 27.3	54.0	V / 1.0 / 180.0	N/A	N/A
1562.00	47.7 Qp	5.2 / 27.2 / 27.4	52.7	V / 1.0 / 270.0	N/A	N/A
1633.00	41.8 Qp	5.4 / 28.1 / 27.2	48.0	V / 1.0 / 270.0	N/A	N/A
1774.00	66.7 Qp	5.6 / 28.7 / 27.2	73.9	V / 1.0 / 80.0	-25	-13
1846.00	36.3 Qp	6.0 / 28.2 / 27.1	43.4	V / 1.0 / 270.0	N/A	N/A
1917.00	38.1 Qp	6.5 / 28.5 / 26.9	46.3	H / 1.0 / 180.0	N/A	N/A
1955.80	36.6 Qp	6.7 / 28.7 / 26.8	45.3	V / 1.0 / 0.0	N/A	N/A
2661.00	29.8 Qp	7.4 / 31.0 / 27.0	41.2	V / 1.0 / 0.0	N/A	N/A
2840.00	36.6 Qp	7.6 / 31.4 / 27.1	48.5	V / 1.0 / 0.0	N/A	N/A
4544.00	39.7 Qp	9.4 / 34.0 / 25.3	57.8	V / 1.0 / 0.0	N/A	N/A

Tested by: J. T. Schneider

Printed

Joel T. Schneider

Signature

Reviewed by: TKS

Printed

Thomas K. Swanson

Signature

Radiated Electromagnetic Emissions



Test Report #: **201192 Run 2** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **26-Mar-2002**
 EUT Model #: **DIGIVANCE** EUT Power: **30 VDC/110 VAC**
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **1** of **8**

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
38.10	56.1 Qp	0.7 / 17.9 / 27.8	46.8	V / 1.0 / 0.0	N/A	N/A
56.40	57.8 Qp	0.8 / 12.9 / 27.9	43.6	V / 1.0 / 0.0	N/A	N/A
69.91	60.1 Qp	0.9 / 9.4 / 27.8	42.6	V / 1.0 / 0.0	N/A	N/A
77.01	59.6 Qp	0.9 / 8.0 / 27.9	40.7	V / 1.0 / 0.0	N/A	N/A
99.97	58.2 Qp	1.1 / 9.2 / 27.9	40.6	V / 1.0 / 0.0	N/A	N/A
109.84	55.1 Qp	1.2 / 9.4 / 27.9	37.7	V / 1.0 / 0.0	N/A	N/A
119.81	59.0 Qp	1.2 / 9.5 / 28.0	41.7	V / 1.0 / 0.0	N/A	N/A
133.91	56.1 Qp	1.3 / 8.4 / 27.9	37.9	V / 1.0 / 0.0	N/A	N/A
193.69	51.6 Qp	1.6 / 11.0 / 27.8	36.3	V / 1.0 / 0.0	N/A	N/A
212.98	58.8 Qp	1.6 / 11.1 / 27.7	43.8	V / 1.0 / 0.0	N/A	N/A
239.64	49.4 Qp	1.7 / 11.6 / 27.7	35.0	V / 1.0 / 0.0	N/A	N/A
258.32	44.0 Qp	1.8 / 12.7 / 27.8	30.6	V / 1.0 / 0.0	N/A	N/A
269.60	47.8 Qp	1.9 / 12.6 / 27.9	34.3	V / 1.0 / 0.0	N/A	N/A
279.58	44.6 Qp	1.9 / 12.5 / 27.9	31.1	V / 1.0 / 0.0	N/A	N/A
283.98	53.6 Qp	1.9 / 12.5 / 27.8	40.2	V / 1.0 / 0.0	N/A	N/A
289.57	48.0 Qp	2.0 / 12.7 / 27.8	34.8	V / 1.0 / 0.0	N/A	N/A
319.53	49.2 Qp	2.0 / 14.0 / 27.7	37.5	V / 1.0 / 0.0	N/A	N/A
283.97	55.4 Qp	1.9 / 12.5 / 27.8	42.0	V / 1.0 / 0.0	N/A	N/A
345.35	39.6 Qp	2.1 / 15.0 / 27.6	29.1	V / 1.0 / 0.0	N/A	N/A
354.98	48.8 Qp	2.1 / 15.2 / 27.6	38.5	V / 1.0 / 0.0	N/A	N/A
389.18	43.5 Qp	2.3 / 16.0 / 27.7	34.1	V / 1.0 / 0.0	N/A	N/A
425.97	53.0 Qp	2.4 / 16.9 / 27.7	44.6	V / 1.0 / 0.0	N/A	N/A
444.73	39.9 Qp	2.5 / 16.5 / 27.7	31.2	V / 1.0 / 0.0	N/A	N/A
496.97	48.0 Qp	2.6 / 17.3 / 27.6	40.4	V / 1.0 / 0.0	N/A	N/A
567.97	53.2 Qp	2.8 / 18.6 / 27.5	47.2	V / 1.0 / 0.0	N/A	N/A
638.98	38.5 Qp	3.0 / 19.7 / 27.6	33.6	V / 1.0 / 0.0	N/A	N/A

Tested by: **RMJ**

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Signature

Reviewed by: **TKS**

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 2** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **26-Mar-2002**
 EUT Model #: **DIGIVANCE** EUT Power: **30 VDC/110 VAC**
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **2** of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
709.98	47.1 Qp	3.2 / 20.4 / 27.4	43.2	V / 1.0 / 0.0	N/A	N/A
780.98	35.6 Qp	3.3 / 21.8 / 27.4	33.2	V / 1.0 / 0.0	N/A	N/A
354.97	48.8 Qp	2.1 / 15.2 / 27.6	38.5	V / 1.0 / 0.0	N/A	N/A
388.12	43.8 Qp	2.3 / 15.9 / 27.7	34.3	V / 1.0 / 0.0	N/A	N/A
425.97	52.9 Qp	2.4 / 16.9 / 27.7	44.5	V / 1.0 / 0.0	N/A	N/A
442.59	39.8 Qp	2.5 / 16.5 / 27.7	31.1	V / 1.0 / 0.0	N/A	N/A
496.97	47.8 Qp	2.6 / 17.3 / 27.6	40.2	V / 1.0 / 0.0	N/A	N/A
567.97	53.2 Qp	2.8 / 18.6 / 27.5	47.2	V / 1.0 / 0.0	N/A	N/A
638.97	38.5 Qp	3.0 / 19.7 / 27.6	33.6	V / 1.0 / 0.0	N/A	N/A
709.98	47.4 Qp	3.2 / 20.4 / 27.4	43.5	V / 1.0 / 0.0	N/A	N/A
780.98	35.7 Qp	3.3 / 21.8 / 27.4	33.4	V / 1.0 / 0.0	N/A	N/A
910.63	38.8 Qp	3.6 / 22.8 / 27.2	38.0	V / 1.0 / 0.0	N/A	N/A
922.98	46.0 Qp	3.7 / 23.1 / 27.2	45.6	V / 1.0 / 0.0	N/A	N/A
993.97	45.0 Qp	4.0 / 23.6 / 27.2	45.3	V / 1.0 / 0.0	N/A	N/A
1064.97	44.1 Av	4.0 / 23.1 / 27.2	44.0	V / 1.0 / 0.0	N/A	N/A
1206.98	43.1 Av	4.5 / 24.4 / 27.2	44.8	V / 1.0 / 0.0	N/A	N/A
1277.97	41.1 Av	4.5 / 25.1 / 27.5	43.2	V / 1.0 / 0.0	N/A	N/A
1348.98	36.1 Av	4.5 / 25.7 / 27.5	38.8	V / 1.0 / 0.0	N/A	N/A
1561.97	37.4 Av	5.2 / 27.2 / 27.4	42.4	V / 1.0 / 0.0	N/A	N/A
1632.98	37.8 Av	5.4 / 28.1 / 27.2	44.0	V / 1.0 / 0.0	N/A	N/A
1703.98	31.6 Av	5.5 / 28.6 / 27.0	38.6	V / 1.0 / 0.0	N/A	N/A
1757.98	39.1 Av	5.6 / 28.8 / 27.1	46.5	V / 1.0 / 0.0	N/A	N/A
1774.97	37.5 Av	5.6 / 28.7 / 27.2	44.7	V / 1.0 / 0.0	N/A	N/A
1845.97	39.9 Av	6.0 / 28.2 / 27.1	47.0	V / 1.0 / 0.0	N/A	N/A
1916.97	38.1 Av	6.5 / 28.5 / 26.9	46.2	V / 1.0 / 0.0	N/A	N/A

Tested by: **RMJ**

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 2** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **26-Mar-2002**
 EUT Model #: **DIGIVANCE** EUT Power: **30 VDC/110 VAC**
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **3** of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
38.10	58.6 Qp	0.7 / 17.9 / 27.8	49.3	V / 1.0 / 90.0	N/A	N/A
354.97	52.4 Qp	2.1 / 15.2 / 27.6	42.1	V / 1.0 / 90.0	N/A	N/A
442.59	46.0 Qp	2.5 / 16.5 / 27.7	37.3	V / 1.0 / 90.0	N/A	N/A
444.73	46.1 Qp	2.5 / 16.5 / 27.7	37.4	V / 1.0 / 90.0	N/A	N/A
638.97	49.7 Qp	3.0 / 19.7 / 27.6	44.8	V / 1.0 / 90.0	N/A	N/A
709.98	58.1 Qp	3.2 / 20.4 / 27.4	54.2	V / 1.0 / 90.0	N/A	N/A
780.98	39.4 Qp	3.3 / 21.8 / 27.4	37.1	V / 1.0 / 90.0	N/A	N/A
910.63	45.0 Qp	3.6 / 22.8 / 27.2	44.3	V / 1.0 / 90.0	N/A	N/A
1757.98	41.1 Av	5.6 / 28.8 / 27.1	48.4	V / 1.0 / 90.0	N/A	N/A
1774.97	38.7 Av	5.6 / 28.7 / 27.2	45.9	V / 1.0 / 90.0	N/A	N/A
37.98	59.5 Qp	0.7 / 17.9 / 27.8	50.3	V / 1.0 / 180.0	N/A	N/A
133.91	57.5 Qp	1.3 / 8.4 / 27.9	39.2	V / 1.0 / 180.0	N/A	N/A
212.98	59.5 Qp	1.6 / 11.1 / 27.7	44.5	V / 1.0 / 180.0	N/A	N/A
345.35	42.0 Qp	2.1 / 15.0 / 27.6	31.5	V / 1.0 / 180.0	N/A	N/A
425.97	53.7 Qp	2.4 / 16.9 / 27.7	45.3	V / 1.0 / 180.0	N/A	N/A
442.59	50.1 Qp	2.5 / 16.5 / 27.7	41.4	V / 1.0 / 180.0	N/A	N/A
444.73	50.0 Qp	2.5 / 16.5 / 27.7	41.3	V / 1.0 / 180.0	N/A	N/A
993.97	46.6 Qp	4.0 / 23.6 / 27.2	46.9	V / 1.0 / 180.0	N/A	N/A
1757.98	48.0 Av	5.6 / 28.8 / 27.1	55.3	V / 1.0 / 180.0	N/A	N/A
212.98	61.3 Qp	1.6 / 11.1 / 27.7	46.3	V / 1.0 / 270.0	N/A	N/A
283.97	58.6 Qp	1.9 / 12.5 / 27.8	45.2	V / 1.0 / 270.0	N/A	N/A
345.35	42.9 Qp	2.1 / 15.0 / 27.6	32.4	V / 1.0 / 270.0	N/A	N/A
910.63	48.8 Qp	3.6 / 22.8 / 27.2	48.0	V / 1.0 / 270.0	N/A	N/A
1277.97	42.6 Av	4.5 / 25.1 / 27.5	44.6	V / 1.0 / 270.0	N/A	N/A

Tested by: **RMJ**

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Reviewed by: **TKS**

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 2** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **26-Mar-2002**
 EUT Model #: **DIGIVANCE LRCS800MHZ** EUT Power: **30 VDC/110 VAC**
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **4** of **8**

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
MAXIMIZED.						
1757.98	50.4 Qp	5.6 / 28.8 / 27.1	57.7	V / 1.0 / 270.0	N/A	N/A
709.98	64.1 Qp	3.2 / 20.4 / 27.4	60.2	V / 1.0 / 270.0	N/A	N/A
709.98	65.4 Qp	3.2 / 20.4 / 27.4	61.5	V / 1.5 / 131.0	N/A	N/A
2058.97	32.2 Av	7.0 / 29.7 / 27.3	41.6	V / 1.5 / 131.0	N/A	N/A
2413.97	32.0 Av	7.1 / 30.5 / 26.8	42.8	V / 1.5 / 131.0	N/A	N/A
2636.98	31.7 Av	7.3 / 31.0 / 27.0	43.0	V / 1.5 / 131.0	N/A	N/A
2839.98	32.5 Av	7.6 / 31.4 / 27.1	44.4	V / 1.5 / 131.0	N/A	N/A
2697.98	31.7 Av	7.4 / 31.1 / 27.0	43.2	V / 1.0 / 90.0	N/A	N/A
2058.97	33.1 Av	7.0 / 29.7 / 27.3	42.5	V / 1.0 / 270.0	N/A	N/A
MAXIMIZED.						
2839.98	33.2 Av	7.6 / 31.4 / 27.1	45.1	V / 1.0 / 10.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
258.32	47.4 Qp	1.8 / 12.7 / 27.8	34.0	H / 1.0 / 0.0	N/A	N/A
425.97	59.1 Qp	2.4 / 16.9 / 27.7	50.7	H / 1.0 / 0.0	N/A	N/A
638.97	54.9 Qp	3.0 / 19.7 / 27.6	50.0	H / 1.0 / 0.0	N/A	N/A
780.98	41.1 Qp	3.3 / 21.8 / 27.4	38.8	H / 1.0 / 0.0	N/A	N/A
1632.98	40.0 Av	5.4 / 28.1 / 27.2	46.2	H / 1.0 / 0.0	N/A	N/A
136.38	47.3 Qp	1.3 / 8.5 / 28.0	29.2	H / 1.0 / 0.0	N/A	N/A
156.48	43.6 Qp	1.4 / 9.1 / 27.9	26.2	H / 1.0 / 0.0	N/A	N/A

Tested by: **RMJ**

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Reviewed by: **TKS**

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 2** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **26-Mar-2002**
 EUT Model #: **DIGIVANCE LRCS800MHZ** EUT Power: **30 VDC/110 VAC**
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **5** of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
77.50	66.5 Qp	1.0 / 7.9 / 27.9	47.4	H / 3.0 / 0.0	N/A	N/A
136.38	51.6 Qp	1.3 / 8.5 / 28.0	33.4	H / 3.0 / 0.0	N/A	N/A
156.48	47.2 Qp	1.4 / 9.1 / 27.9	29.8	H / 3.0 / 0.0	N/A	N/A
283.97	60.4 Qp	1.9 / 12.5 / 27.8	47.0	H / 3.0 / 0.0	N/A	N/A
1277.97	43.4 Qp	4.5 / 25.1 / 27.5	45.4	H / 3.0 / 0.0	N/A	N/A
1348.98	38.4 Qp	4.5 / 25.7 / 27.5	41.0	H / 3.0 / 0.0	N/A	N/A
283.97	63.4 Qp	1.9 / 12.5 / 27.8	50.0	H / 3.0 / 0.0	N/A	N/A
354.97	55.1 Qp	2.1 / 15.2 / 27.6	44.9	H / 1.0 / 0.0	N/A	N/A
425.97	61.9 Qp	2.4 / 16.9 / 27.7	53.5	H / 1.0 / 0.0	N/A	N/A
1277.97	45.6 Av	4.5 / 25.1 / 27.5	47.7	H / 1.0 / 0.0	N/A	N/A
283.98	70.9 Qp	1.9 / 12.5 / 27.8	57.5	H / 1.0 / 180.0	N/A	N/A
780.98	43.3 Qp	3.3 / 21.8 / 27.4	41.0	H / 1.0 / 180.0	N/A	N/A
77.01	60.8 Qp	0.9 / 8.0 / 27.9	41.8	H / 3.0 / 180.0	N/A	N/A
136.38	62.3 Qp	1.3 / 8.5 / 28.0	44.2	H / 3.0 / 270.0	N/A	N/A
212.98	64.9 Qp	1.6 / 11.1 / 27.7	49.9	H / 3.0 / 270.0	N/A	N/A
283.98	71.7 Qp	1.9 / 12.5 / 27.8	58.3	H / 3.0 / 270.0	N/A	N/A
388.12	49.2 Qp	2.3 / 15.9 / 27.7	39.7	H / 3.0 / 270.0	N/A	N/A
389.18	48.7 Qp	2.3 / 16.0 / 27.7	39.3	H / 3.0 / 270.0	N/A	N/A
993.97	48.0 Qp	4.0 / 23.6 / 27.2	48.3	H / 3.0 / 270.0	N/A	N/A
1064.97	45.6 Av	4.0 / 23.1 / 27.2	45.4	H / 3.0 / 270.0	N/A	N/A

Tested by: **RMJ**

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Radiated Electromagnetic Emissions



Test Report #:	201192 Run 2	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	26-Mar-2002	
EUT Model #:	DIGIVANCE LRCS800MHZ	EUT Power:	30 VDC/110 VAC	
EUT Serial #:		Temperature:	21	°C
Manufacturer:	ADC	Relative Humidity:	7	%
EUT Description:	HOST/STM	Air Pressure:	98.6	kPa
Notes:			Page:	6 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1348.98	40.6 Av	4.5 / 25.7 / 27.5	43.2	H / 3.0 / 270.0	N/A	N/A
MAXIMIZED.						
283.98	74.7 Qp	1.9 / 12.5 / 27.8	61.3	H / 1.0 / 300.0	N/A	N/A
END OF SCAN 30MHZ - 8.8GHZ.						
709.98MHZ (HIGHEST SPURIOUS LEVEL)						
SIG GEN LEVEL (-26dBm) - CABLE LOSS (1.6dBm) - ANTENNA FACTOR (8dBm) = (-35.6 dBm)						

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 2** Test Area: **LTS 3m**
 Test Method: **N/A** Test Date: **26-Mar-2002**
 EUT Model #: **DIGIVANCE LRCS800MHZ** EUT Power: **30 VDC/110 VAC**
 EUT Serial #: _____
 Manufacturer: **ADC**
 EUT Description: **HOST/STM**
 Notes: _____

Temperature: **21** °C
 Relative Humidity: **7** %
 Air Pressure: **98.6** kPa
 Page: **7** of **8**

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
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***** MEASUREMENT SUMMARY *****						
37.98	59.5 Qp	0.7 / 17.9 / 27.8	50.3	V / 1.0 / 180.0	N/A	N/A
38.10	58.6 Qp	0.7 / 17.9 / 27.8	49.3	V / 1.0 / 90.0	N/A	N/A
56.40	57.8 Qp	0.8 / 12.9 / 27.9	43.6	V / 1.0 / 0.0	N/A	N/A
69.91	60.1 Qp	0.9 / 9.4 / 27.8	42.6	V / 1.0 / 0.0	N/A	N/A
77.01	60.8 Qp	0.9 / 8.0 / 27.9	41.8	H / 3.0 / 180.0	N/A	N/A
77.50	66.5 Qp	1.0 / 7.9 / 27.9	47.4	H / 3.0 / 0.0	N/A	N/A
99.97	58.2 Qp	1.1 / 9.2 / 27.9	40.6	V / 1.0 / 0.0	N/A	N/A
133.91	57.5 Qp	1.3 / 8.4 / 27.9	39.2	V / 1.0 / 180.0	N/A	N/A
136.38	62.3 Qp	1.3 / 8.5 / 28.0	44.2	H / 3.0 / 270.0	N/A	N/A
156.48	47.2 Qp	1.4 / 9.1 / 27.9	29.8	H / 3.0 / 0.0	N/A	N/A
193.69	51.6 Qp	1.6 / 11.0 / 27.8	36.3	V / 1.0 / 0.0	N/A	N/A
212.98	64.9 Qp	1.6 / 11.1 / 27.7	49.9	H / 3.0 / 270.0	N/A	N/A
258.32	47.4 Qp	1.8 / 12.7 / 27.8	34.0	H / 1.0 / 0.0	N/A	N/A
283.98	74.7 Qp	1.9 / 12.5 / 27.8	61.3	H / 1.0 / 300.0	N/A	N/A
345.35	42.9 Qp	2.1 / 15.0 / 27.6	32.4	V / 1.0 / 270.0	N/A	N/A
354.97	55.1 Qp	2.1 / 15.2 / 27.6	44.9	H / 1.0 / 0.0	N/A	N/A
388.12	49.2 Qp	2.3 / 15.9 / 27.7	39.7	H / 3.0 / 270.0	N/A	N/A
389.18	48.7 Qp	2.3 / 16.0 / 27.7	39.3	H / 3.0 / 270.0	N/A	N/A
425.97	61.9 Qp	2.4 / 16.9 / 27.7	53.5	H / 1.0 / 0.0	N/A	N/A
442.59	50.1 Qp	2.5 / 16.5 / 27.7	41.4	V / 1.0 / 180.0	N/A	N/A
444.73	50.0 Qp	2.5 / 16.5 / 27.7	41.3	V / 1.0 / 180.0	N/A	N/A
496.97	48.0 Qp	2.6 / 17.3 / 27.6	40.4	V / 1.0 / 0.0	N/A	N/A
567.97	53.2 Qp	2.8 / 18.6 / 27.5	47.2	V / 1.0 / 0.0	N/A	N/A
638.97	54.9 Qp	3.0 / 19.7 / 27.6	50.0	H / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: 201192 Run 2 Test Area: LTS 3m
 Test Method: N/A Test Date: 26-Mar-2002
 EUT Model #: DIGIVANCE EUT Power: 30 VDC/110 VAC
LRCS800MHZ
 EUT Serial #: _____
 Manufacturer: ADC
 EUT Description: HOST/STM
 Notes: _____

Temperature: 21 °C
 Relative Humidity: 7 %
 Air Pressure: 98.6 kPa
 Page: 8 of 8

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
***** MEASUREMENT SUMMARY *****						
709.98	65.4 Qp	3.2 / 20.4 / 27.4	61.5	V / 1.5 / 131.0	N/A	N/A
780.98	43.3 Qp	3.3 / 21.8 / 27.4	41.0	H / 1.0 / 180.0	N/A	N/A
910.63	48.8 Qp	3.6 / 22.8 / 27.2	48.0	V / 1.0 / 270.0	N/A	N/A
922.98	46.0 Qp	3.7 / 23.1 / 27.2	45.6	V / 1.0 / 0.0	N/A	N/A
993.97	48.0 Qp	4.0 / 23.6 / 27.2	48.3	H / 3.0 / 270.0	N/A	N/A
1064.97	46.2 Qp	4.0 / 23.1 / 27.2	46.1	H / 3.0 / 270.0	N/A	N/A
1206.98	43.1 Av	4.5 / 24.4 / 27.2	44.8	V / 1.0 / 0.0	N/A	N/A
1277.97	45.6 Av	4.5 / 25.1 / 27.5	47.7	H / 1.0 / 0.0	N/A	N/A
1348.98	40.6 Av	4.5 / 25.7 / 27.5	43.2	H / 3.0 / 270.0	N/A	N/A
1561.97	37.4 Av	5.2 / 27.2 / 27.4	42.4	V / 1.0 / 0.0	N/A	N/A
1632.98	40.0 Av	5.4 / 28.1 / 27.2	46.2	H / 1.0 / 0.0	N/A	N/A
1703.98	31.6 Av	5.5 / 28.6 / 27.0	38.6	V / 1.0 / 0.0	N/A	N/A
1757.98	50.4 Qp	5.6 / 28.8 / 27.1	57.7	V / 1.0 / 270.0	N/A	N/A
1774.97	38.7 Av	5.6 / 28.7 / 27.2	45.9	V / 1.0 / 90.0	N/A	N/A
1845.97	39.9 Av	6.0 / 28.2 / 27.1	47.0	V / 1.0 / 0.0	N/A	N/A
1916.97	38.1 Av	6.5 / 28.5 / 26.9	46.2	V / 1.0 / 0.0	N/A	N/A
2058.97	33.1 Av	7.0 / 29.7 / 27.3	42.5	V / 1.0 / 270.0	N/A	N/A
2413.97	33.6 Qp	7.1 / 30.5 / 26.8	44.5	V / 1.5 / 131.0	N/A	N/A
2636.98	31.7 Av	7.3 / 31.0 / 27.0	43.0	V / 1.5 / 131.0	N/A	N/A
2697.98	31.7 Av	7.4 / 31.1 / 27.0	43.2	V / 1.0 / 90.0	N/A	N/A
2839.98	33.2 Av	7.6 / 31.4 / 27.1	45.1	V / 1.0 / 10.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 03** Test Area: **LTS 3m**

Test Method: **N/A** Test Date: **26-Mar-2002**

EUT Model #: **DIGIVANCE LRCS / SMR DUAL TRANSMIT (TX)** EUT Power: **30 VDC/110 VAC**

EUT Serial #: _____

Manufacturer: **ADC**

EUT Description: **HOST/STM**

Notes: _____

Temperature: **21** °C

Relative Humidity: **7** %

Air Pressure: **98.6** kPa

Page: **1** of 7

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
31.99	53.5 Qp	0.6 / 20.4 / 28.0	46.5	V / 1.0 / 0.0	N/A	N/A
38.93	52.1 Qp	0.7 / 17.5 / 27.8	42.5	V / 1.0 / 0.0	N/A	N/A
45.52	58.2 Qp	0.8 / 15.5 / 27.8	46.7	V / 1.0 / 0.0	N/A	N/A
57.18	56.6 Qp	0.8 / 12.7 / 27.9	42.2	V / 1.0 / 0.0	N/A	N/A
67.78	56.2 Qp	0.9 / 9.9 / 27.8	39.3	V / 1.0 / 0.0	N/A	N/A
71.00	55.4 Qp	0.9 / 9.2 / 27.8	37.7	V / 1.0 / 0.0	N/A	N/A
79.45	61.6 Qp	1.0 / 7.6 / 27.9	42.3	V / 1.0 / 0.0	N/A	N/A
97.56	57.1 Qp	1.1 / 8.9 / 27.9	39.2	V / 1.0 / 0.0	N/A	N/A
153.25	62.1 Qp	1.4 / 9.5 / 27.9	45.1	V / 1.0 / 0.0	N/A	N/A
191.52	55.6 Qp	1.6 / 10.7 / 27.9	40.0	V / 1.0 / 0.0	N/A	N/A
283.98	53.5 Qp	1.9 / 12.5 / 27.8	40.1	V / 1.0 / 0.0	N/A	N/A
354.98	42.4 Qp	2.1 / 15.2 / 27.6	32.1	V / 1.0 / 0.0	N/A	N/A
379.68	42.5 Qp	2.2 / 15.7 / 27.7	32.7	V / 1.0 / 0.0	N/A	N/A
425.98	72.9 Qp	2.4 / 16.9 / 27.7	64.5	V / 1.0 / 0.0	N/A	N/A
496.97	53.8 Qp	2.6 / 17.3 / 27.6	46.2	V / 1.0 / 0.0	N/A	N/A
567.97	42.9 Qp	2.8 / 18.6 / 27.5	36.8	V / 1.0 / 0.0	N/A	N/A
638.98	50.2 Qp	3.0 / 19.7 / 27.6	45.4	V / 1.0 / 0.0	N/A	N/A
709.98	51.9 Qp	3.2 / 20.4 / 27.4	48.0	V / 1.0 / 0.0	N/A	N/A
780.98	35.1 Qp	3.3 / 21.8 / 27.4	32.7	V / 1.0 / 0.0	N/A	N/A
830.38	36.8 Qp	3.5 / 21.8 / 27.3	34.7	V / 1.0 / 0.0	N/A	N/A
922.97	42.5 Qp	3.7 / 23.1 / 27.2	42.1	V / 1.0 / 0.0	N/A	N/A
993.97	52.6 Qp	4.0 / 23.6 / 27.2	52.9	V / 1.0 / 0.0	N/A	N/A
1064.97	44.2 Av	4.0 / 23.1 / 27.2	44.1	V / 1.0 / 0.0	N/A	N/A
1135.98	35.9 Av	4.3 / 23.9 / 27.2	36.9	V / 1.0 / 0.0	N/A	N/A
1206.97	40.2 Av	4.5 / 24.4 / 27.2	41.9	V / 1.0 / 0.0	N/A	N/A
1277.97	38.5 Av	4.5 / 25.1 / 27.5	40.5	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	201192 Run 03	Test Area:	LTS 3m
Test Method:	N/A	Test Date:	26-Mar-2002
EUT Model #:	DIGIVANCE LRCS / SMR DUAL TRANSMIT (TX)	EUT Power:	30 VDC/110 VAC
EUT Serial #:			
Manufacturer:	ADC	Temperature:	21 °C
EUT Description:	HOST/STM	Relative Humidity:	7 %
Notes:		Air Pressure:	98.6 kPa
		Page:	2 of 7

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1490.97	36.5 Av	5.1 / 27.1 / 27.3	41.4	V / 1.0 / 0.0	N/A	N/A
1561.97	37.5 Av	5.2 / 27.2 / 27.4	42.4	V / 1.0 / 0.0	N/A	N/A
1955.80	32.6 Av	6.7 / 28.7 / 26.8	41.3	V / 1.0 / 0.0	N/A	N/A
57.79	55.0 Qp	0.8 / 12.5 / 27.9	40.5	V / 1.0 / 0.0	N/A	N/A
152.92	63.1 Qp	1.4 / 9.5 / 27.9	46.1	V / 1.0 / 0.0	N/A	N/A
141.98	76.0 Qp	1.3 / 9.3 / 27.9	58.7	V / 1.0 / 0.0	N/A	N/A
191.73	58.8 Qp	1.6 / 10.7 / 27.9	43.3	V / 1.0 / 0.0	N/A	N/A
57.18	59.2 Qp	0.8 / 12.7 / 27.9	44.8	V / 1.0 / 90.0	N/A	N/A
57.79	56.5 Qp	0.8 / 12.5 / 27.9	41.9	V / 1.0 / 90.0	N/A	N/A
67.78	57.1 Qp	0.9 / 10.0 / 27.8	40.2	V / 1.0 / 90.0	N/A	N/A
97.56	58.4 Qp	1.1 / 8.9 / 27.9	40.5	V / 1.0 / 90.0	N/A	N/A
283.98	56.7 Qp	1.9 / 12.5 / 27.8	43.3	V / 1.0 / 90.0	N/A	N/A
425.98	74.2 Qp	2.4 / 16.9 / 27.7	65.8	V / 1.0 / 90.0	N/A	N/A
496.97	55.3 Qp	2.6 / 17.3 / 27.6	47.7	V / 1.0 / 90.0	N/A	N/A
638.98	51.6 Qp	3.0 / 19.7 / 27.6	46.8	V / 1.0 / 90.0	N/A	N/A
709.98	54.1 Qp	3.2 / 20.4 / 27.4	50.3	V / 1.0 / 90.0	N/A	N/A
830.38	39.6 Qp	3.5 / 21.8 / 27.3	37.5	V / 1.0 / 90.0	N/A	N/A
79.45	63.0 Qp	1.0 / 7.6 / 27.9	43.7	V / 1.0 / 180.0	N/A	N/A
354.98	45.5 Qp	2.1 / 15.2 / 27.6	35.2	V / 1.0 / 180.0	N/A	N/A
379.68	45.3 Qp	2.2 / 15.7 / 27.7	35.5	V / 1.0 / 180.0	N/A	N/A
709.98	54.8 Qp	3.2 / 20.4 / 27.4	50.9	V / 1.0 / 180.0	N/A	N/A
780.98	38.4 Qp	3.3 / 21.8 / 27.4	36.1	V / 1.0 / 180.0	N/A	N/A
830.38	48.1 Qp	3.5 / 21.8 / 27.3	46.1	V / 1.0 / 180.0	N/A	N/A
922.97	46.1 Qp	3.7 / 23.1 / 27.2	45.7	V / 1.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 03** Test Area: LTS 3m
 Test Method: N/A Test Date: 26-Mar-2002
 EUT Model #: DIGIVANCE LRCS / SMR DUAL TRANSMIT (TX) EUT Power: 30 VDC/110 VAC
 EUT Serial #: _____
 Manufacturer: ADC
 EUT Description: HOST/STM
 Notes: _____

Temperature: 21 °C
 Relative Humidity: 7 %
 Air Pressure: 98.6 kPa
 Page: 3 of 7

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1277.97	42.3 Av	4.5 / 25.1 / 27.5	44.4	V / 1.0 / 180.0	N/A	N/A
1955.80	34.5 Av	6.7 / 28.7 / 26.8	43.1	V / 1.0 / 180.0	N/A	N/A
38.93	53.5 Qp	0.7 / 17.5 / 27.8	43.9	V / 1.0 / 270.0	N/A	N/A
71.00	56.1 Qp	0.9 / 9.2 / 27.8	38.4	V / 1.0 / 270.0	N/A	N/A
97.56	60.1 Qp	1.1 / 8.9 / 27.9	42.2	V / 1.0 / 270.0	N/A	N/A
354.98	48.2 Qp	2.1 / 15.2 / 27.6	38.0	V / 1.0 / 270.0	N/A	N/A
567.97	47.1 Qp	2.8 / 18.6 / 27.5	41.1	V / 1.0 / 270.0	N/A	N/A
MAXIMIZED.						
425.98	79.2 Qp	2.4 / 16.9 / 27.7	70.7	V / 1.0 / 121.0	N/A	N/A
MAXED ANTENNA AND ROTATED EUT 360 DEGREES.						
79.45	68.2 Qp	1.0 / 7.6 / 27.9	48.9	H / 3.0 / 0.0	N/A	N/A
283.98	59.3 Qp	1.9 / 12.5 / 27.8	45.9	H / 1.0 / 0.0	N/A	N/A
425.98	68.0 Qp	2.4 / 16.9 / 27.7	59.6	H / 1.0 / 0.0	N/A	N/A
1064.97	49.4 Av	4.0 / 23.1 / 27.2	49.3	H / 1.0 / 0.0	N/A	N/A
1490.97	39.3 Av	5.1 / 27.1 / 27.3	44.2	H / 1.0 / 0.0	N/A	N/A
141.98	76.4 Qp	1.3 / 9.3 / 27.9	59.0	H / 1.0 / 90.0	N/A	N/A
191.73	59.5 Qp	1.6 / 10.7 / 27.9	43.9	H / 1.0 / 90.0	N/A	N/A
283.98	60.5 Qp	1.9 / 12.5 / 27.8	47.1	H / 1.0 / 90.0	N/A	N/A
425.98	85.7 Qp	2.4 / 16.9 / 27.7	77.3	H / 1.0 / 90.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #: **201192 Run 03** Test Area: LTS 3m
 Test Method: N/A Test Date: 26-Mar-2002
 EUT Model #: DIGIVANCE LRCS / SMR DUAL TRANSMIT (TX) EUT Power: 30 VDC/110 VAC
 EUT Serial #: _____
 Manufacturer: ADC
 EUT Description: HOST/STM
 Notes: _____

Temperature: 21 °C
 Relative Humidity: 7 %
 Air Pressure: 98.6 kPa
 Page: 4 of 7

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
567.97	50.3 Qp	2.8 / 18.6 / 27.5	44.3	H / 1.0 / 90.0	N/A	N/A
709.98	62.0 Qp	3.2 / 20.4 / 27.4	58.1	H / 1.0 / 90.0	N/A	N/A
780.98	47.3 Qp	3.3 / 21.8 / 27.4	45.0	H / 1.0 / 90.0	N/A	N/A
830.41	42.7 Qp	3.5 / 21.8 / 27.3	40.7	H / 1.0 / 90.0	N/A	N/A
922.97	49.2 Qp	3.7 / 23.1 / 27.2	48.8	H / 1.0 / 90.0	N/A	N/A
141.98	77.1 Qp	1.3 / 9.3 / 27.9	59.8	H / 3.0 / 90.0	N/A	N/A
1206.97	43.6 Av	4.5 / 24.4 / 27.2	45.4	H / 3.0 / 90.0	N/A	N/A
1277.97	43.8 Av	4.5 / 25.1 / 27.5	45.9	H / 1.0 / 180.0	N/A	N/A
141.98	77.7 Qp	1.3 / 9.3 / 27.9	60.3	H / 1.0 / 270.0	N/A	N/A
283.98	64.6 Qp	1.9 / 12.5 / 27.8	51.2	H / 1.0 / 270.0	N/A	N/A
638.98	55.6 Qp	3.0 / 19.7 / 27.6	50.8	H / 1.0 / 270.0	N/A	N/A
141.98	78.5 Qp	1.3 / 9.3 / 27.9	61.2	H / 3.0 / 270.0	N/A	N/A
MAXIMIZED.						
141.98	81.0 Qp	1.3 / 9.3 / 27.9	63.7	H / 1.4 / 239.0	N/A	N/A
283.98	66.2 Qp	1.9 / 12.5 / 27.8	52.8	H / 1.0 / 250.0	N/A	N/A
2413.97	32.9 Av	7.1 / 30.5 / 26.8	43.7	V / 1.0 / 0.0	N/A	N/A
2697.96	32.1 Av	7.4 / 31.1 / 27.0	43.7	V / 1.0 / 0.0	N/A	N/A
2573.98	31.8 Av	7.2 / 30.8 / 27.0	42.9	V / 1.0 / 0.0	N/A	N/A
3431.99	31.5 Av	8.8 / 32.7 / 26.4	46.5	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	201192 Run 03	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	26-Mar-2002	
EUT Model #:	DIGIVANCE LRCS / SMR DUAL TRANSMIT (TX)	EUT Power:	30 VDC/110 VAC	
EUT Serial #:		Temperature:	21	°C
Manufacturer:	ADC	Relative Humidity:	7	%
EUT Description:	HOST/STM	Air Pressure:	98.6	kPa
Notes:			Page:	5 of 7

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
2697.96	33.5 Av	7.4 / 31.1 / 27.0	45.1	V / 1.0 / 180.0	N/A	N/A
END OF SCAN 30MHZ - 8.6GHZ.						
425.95MHZ (HIGHEST SPURIOUS LEVEL)						
SIG GEN LEVEL (-13.5dBm) - CABLE LOSS (1.4dBm) - ANTENNA FACTOR (8dBm) = (-22.9dBm)						

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Radiated Electromagnetic Emissions



Test Report #:	201192 Run 03	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	26-Mar-2002	
EUT Model #:	DIGIVANCE LRCS / SMR DUAL TRANSMIT (TX)	EUT Power:	30 VDC/110 VAC	
EUT Serial #:		Temperature:	21	°C
Manufacturer:	ADC	Relative Humidity:	7	%
EUT Description:	HOST/STM	Air Pressure:	98.6	kPa
Notes:			Page:	6 of 7

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
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***** MEASUREMENT SUMMARY *****						
31.99	53.5 Qp	0.6 / 20.4 / 28.0	46.5	V / 1.0 / 0.0	N/A	N/A
38.93	53.5 Qp	0.7 / 17.5 / 27.8	43.9	V / 1.0 / 270.0	N/A	N/A
45.52	58.2 Qp	0.8 / 15.5 / 27.8	46.7	V / 1.0 / 0.0	N/A	N/A
57.18	59.2 Qp	0.8 / 12.7 / 27.9	44.8	V / 1.0 / 90.0	N/A	N/A
57.79	56.5 Qp	0.8 / 12.5 / 27.9	41.9	V / 1.0 / 90.0	N/A	N/A
67.78	57.1 Qp	0.9 / 10.0 / 27.8	40.2	V / 1.0 / 90.0	N/A	N/A
71.00	56.1 Qp	0.9 / 9.2 / 27.8	38.4	V / 1.0 / 270.0	N/A	N/A
79.45	68.2 Qp	1.0 / 7.6 / 27.9	48.9	H / 3.0 / 0.0	N/A	N/A
97.56	60.1 Qp	1.1 / 8.9 / 27.9	42.2	V / 1.0 / 270.0	N/A	N/A
141.98	81.0 Qp	1.3 / 9.3 / 27.9	63.7	H / 1.4 / 239.0	N/A	N/A
152.92	63.1 Qp	1.4 / 9.5 / 27.9	46.1	V / 1.0 / 0.0	N/A	N/A
153.25	62.1 Qp	1.4 / 9.5 / 27.9	45.1	V / 1.0 / 0.0	N/A	N/A
191.52	55.6 Qp	1.6 / 10.7 / 27.9	40.0	V / 1.0 / 0.0	N/A	N/A
191.73	59.5 Qp	1.6 / 10.7 / 27.9	43.9	H / 1.0 / 90.0	N/A	N/A
283.98	66.2 Qp	1.9 / 12.5 / 27.8	52.8	H / 1.0 / 250.0	N/A	N/A
354.98	48.2 Qp	2.1 / 15.2 / 27.6	38.0	V / 1.0 / 270.0	N/A	N/A
379.68	45.3 Qp	2.2 / 15.7 / 27.7	35.5	V / 1.0 / 180.0	N/A	N/A
425.98	85.7 Qp	2.4 / 16.9 / 27.7	77.3	H / 1.0 / 90.0	N/A	N/A
496.97	55.3 Qp	2.6 / 17.3 / 27.6	47.7	V / 1.0 / 90.0	N/A	N/A
567.97	50.3 Qp	2.8 / 18.6 / 27.5	44.3	H / 1.0 / 90.0	N/A	N/A
638.98	55.6 Qp	3.0 / 19.7 / 27.6	50.8	H / 1.0 / 270.0	N/A	N/A
709.98	62.0 Qp	3.2 / 20.4 / 27.4	58.1	H / 1.0 / 90.0	N/A	N/A
780.98	47.3 Qp	3.3 / 21.8 / 27.4	45.0	H / 1.0 / 90.0	N/A	N/A
830.38	48.1 Qp	3.5 / 21.8 / 27.3	46.1	V / 1.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	201192 Run 03	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	26-Mar-2002		
EUT Model #:	DIGIVANCE LRCS / SMR DUAL TRANSMIT (TX)	EUT Power:	30 VDC/110 VAC		
EUT Serial #:		Temperature:	21	°C	
Manufacturer:	ADC	Relative Humidity:	7	%	
EUT Description:	HOST/STM	Air Pressure:	98.6	kPa	
Notes:			Page:	7 of 7	

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
***** MEASUREMENT SUMMARY *****						
922.97	49.2 Qp	3.7 / 23.1 / 27.2	48.8	H / 1.0 / 90.0	N/A	N/A
993.97	52.6 Qp	4.0 / 23.6 / 27.2	52.9	V / 1.0 / 0.0	N/A	N/A
1064.97	49.4 Av	4.0 / 23.1 / 27.2	49.3	H / 1.0 / 0.0	N/A	N/A
1135.98	35.9 Av	4.3 / 23.9 / 27.2	36.9	V / 1.0 / 0.0	N/A	N/A
1206.97	43.6 Av	4.5 / 24.4 / 27.2	45.4	H / 3.0 / 90.0	N/A	N/A
1277.97	43.8 Av	4.5 / 25.1 / 27.5	45.9	H / 1.0 / 180.0	N/A	N/A
1490.97	39.3 Av	5.1 / 27.1 / 27.3	44.2	H / 1.0 / 0.0	N/A	N/A
1561.97	37.5 Av	5.2 / 27.2 / 27.4	42.4	V / 1.0 / 0.0	N/A	N/A
1955.80	34.5 Av	6.7 / 28.7 / 26.8	43.1	V / 1.0 / 180.0	N/A	N/A
2413.97	32.9 Av	7.1 / 30.5 / 26.8	43.7	V / 1.0 / 0.0	N/A	N/A
2573.98	31.8 Av	7.2 / 30.8 / 27.0	42.9	V / 1.0 / 0.0	N/A	N/A
2697.96	33.5 Av	7.4 / 31.1 / 27.0	45.1	V / 1.0 / 180.0	N/A	N/A
3431.99	31.5 Av	8.8 / 32.7 / 26.4	46.5	V / 1.0 / 0.0	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:

- | | |
|--|----------------|
| ☐ - _____ | 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

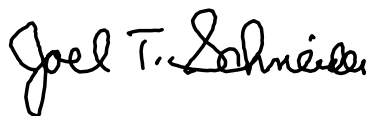
■ - fulfill the general approval requirements mentioned on page 3.

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

Testing Start Date: 12 March 2002

Testing End Date: 26 March 2002

- 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
■ -		RDL	IMD Simulator	MC27633	CNR
■ -	E4432B	HP	Signal Generator	MC27657	Sept 02
■ -	E4432B	HP	Signal Generator	930611	Oct 03
■ -	ZAPD-21	Mini Circuits	Combiner	N/A	CNR
■ -	RG-400	Coax Cable	Attenuator	N/A	CNR
■ -	BMA-580	Trilithic	Variable attenuator	N/A	CMR
■ -	HP8563E	HP	Spectrum Analyzer	MC27690	Apr 02
■ -	HP6633A	HP	DC Power Supply	MN21690	CNR
■ -		Rohde & Schwarz	Power Meter	MC21671	Jan 03
■ -	1520CT	Staco	Variable Auto Transformer	MC/44655	May 02
■ -	79III	Fluke	Multimeter	MC16119	July03
■ -	5347A	HP	Freq. Counter	MC27569	May 02
■ -	Ecosphere	Despatch	Temperature Chamber	MC21679	Aug 02

	TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
■ -	3202	EM-6917B	Electro-Metrics	Biconicalog Periodic	102	9-24-02
■ -	2665	ZHL-1042J	Mini-Circuits	Preamplifier	32296	9-12-02
■ -	2075	3115	Electro-Mechanics (EMCO)	Ridge Guide Ant. 1-18 GHz	9001-3275	10-20-02
■ -	3926	11867A	Hewlett-Packard	Limiter	02442	3-18-03
■ -	2690	8566B	Hewlett-Packard	Spectrum Analyzer (Unit F)	2430A00930	11-19-02
■ -	2678	85662A	Hewlett-Packard	Analyzer Display (Unit F)	2403A08134	11-19-02
■ -	2684	85650A	Hewlett-Packard	Quasi-Peak Adapter (Unit F)	2521A01006	11-19-02
■ -	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
■ -		UHAP-10dB	Schwarzbeck	Dipole Antenna 300-1000	164	CNR
■ -		VHAP	Schwarzbeck	Dipole Antenna 30-300	177	CNR
■ -	2396	2520	Wavetek	Signal Generator	6271013	3-13-02

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: 952-233-6479 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 800 MHz System (A and B Band)

Model No.: DGVL-112110SYS Serial No.: None
and DGVL-122110SYS

Product Options: Receive Diversity

Configurations to be tested: 800 MHz A Band and B Band Version with Diversity option

Test Objective

- | | |
|--|---|
| ☐ EMC Directive 89/336/EEC (EMC) | ☒ FCC: Class ☐ A ☐ B Part <u>22</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, TÜV 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)): 2.5 Current (Amps/phase(nominal)): 1.5

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-102010HU	None	
STM A Band	DGVL-112101STM	None	
STM B Band	DGVL-122010STM	None	
Amp	DGVL-102000LPA	None	
Digivance LRCS 800 MHz System Model DGVL-112110SYS and DGVL-122110SYS 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		

Form

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 R. Mische

Customer authorization to perform tests
according to this test plan.

3-29-2002

Date

Test Plan/CDF Prepared By (please print)

Date

Reviewed by TÜV Product Service Associate

Date