

# **Frequency Hopping Spread Spectrum Transmitter**

## **Certification Test Report**

**Model: R900-V3  
FCC ID: P2SNTGSRFV3**

**ACS Report Number: 04-0044-15C**

## **Radiated Spurious Emission Plots – Pit Unit**

## Low Channel

ATTEN 10dB

MKPR 61.83dBμV

RL 107.0dBμV

10dB/

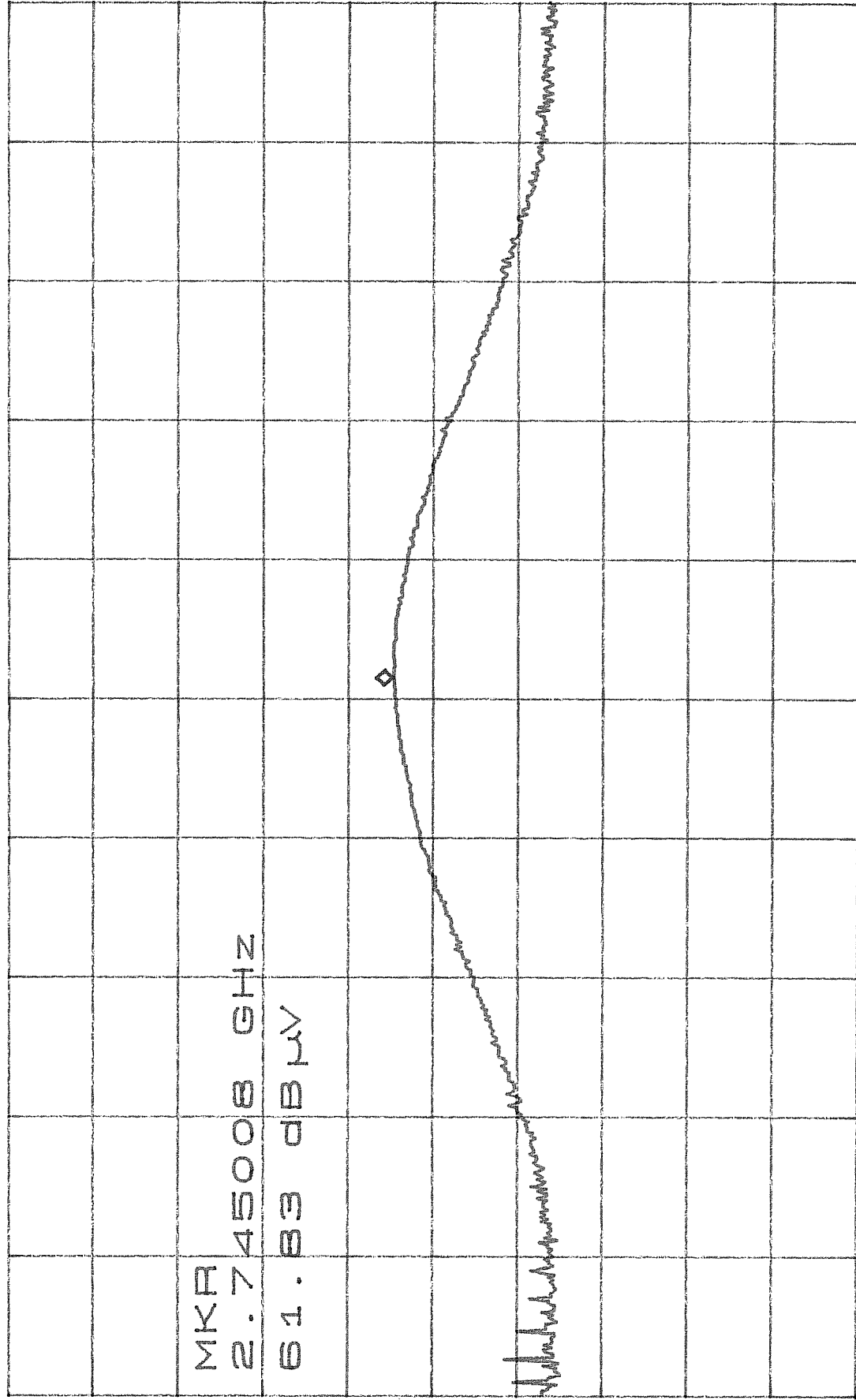
2.745008GHz

MKPR

2.745008 GHz

61.83 dBμV

D



CENTER 2.745008GHz

SPAN 5.000MHz

\*RBW 1.0MHz

\*VBW 1.0MHz

SWP 50.0ms

ATTEN 10dB

RL 107.0dBμV

10dB/

MKR 53.50dBμV

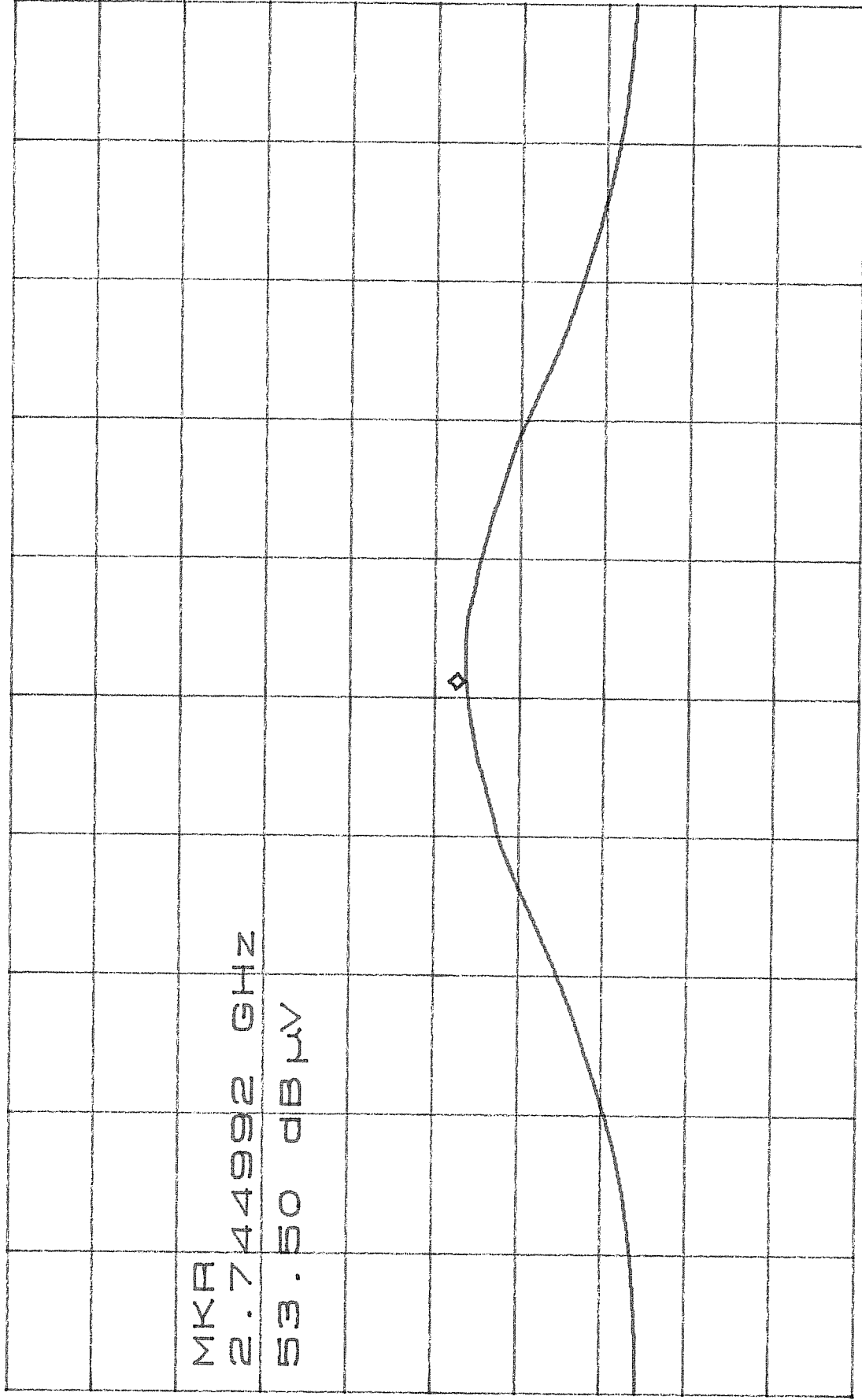
2.744992GHz

MKR

2.744992 GHz

53.50 dBμV

D



CENTER 2.744933GHz

\*RBW 1.0MHz

\*VBW 10Hz

SPAN 5.000MHz

SWP 5.00sec

ATTEN 10dB

MKR 65.17dBμV

PL 107.00dBμV

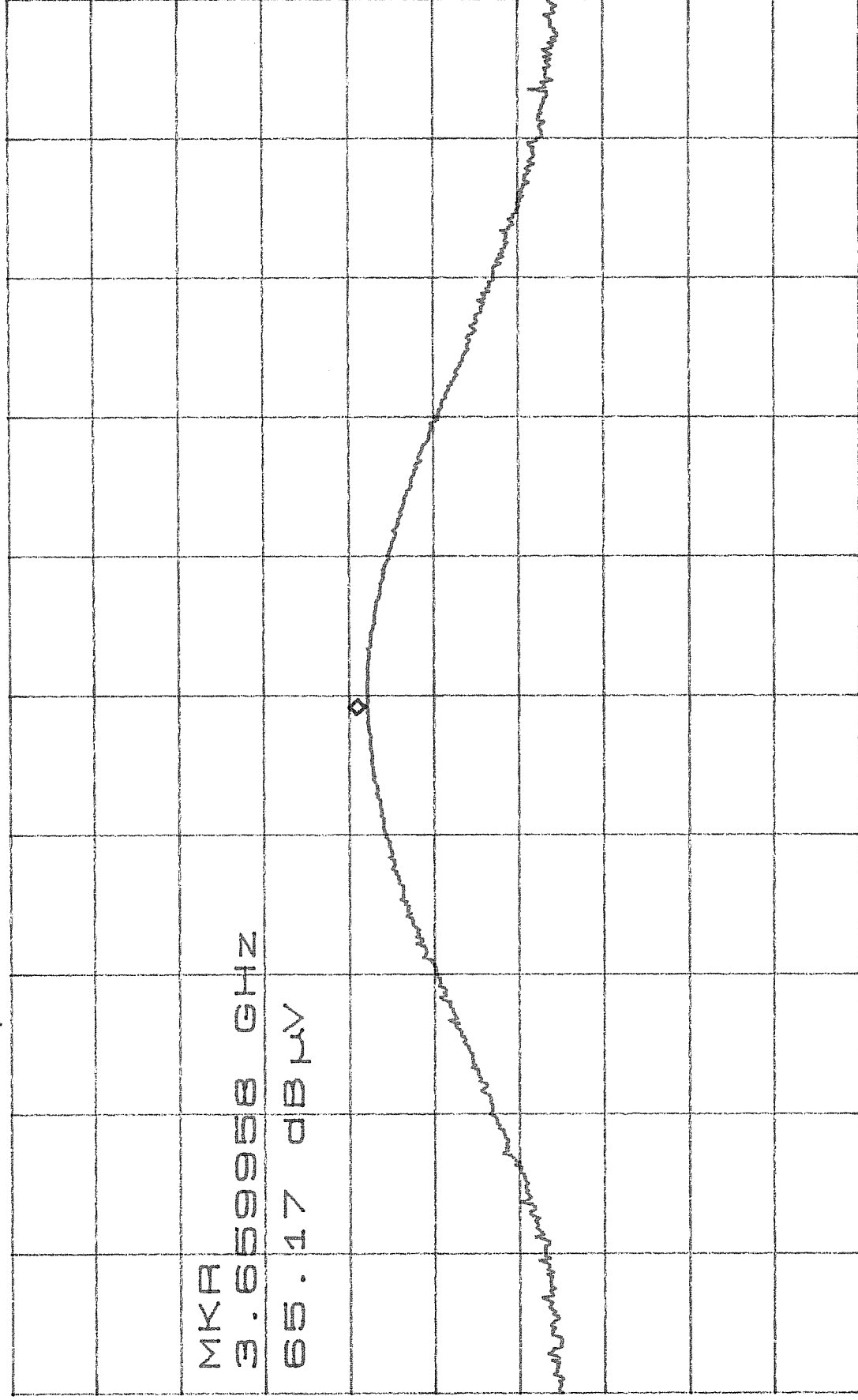
10dB/

3.659958GHz

MKR

3.659958 GHz

65.17 dBμV



CENTER 3.660000GHz

SPAN 5.000MHz

\*RBW 1.0MHz

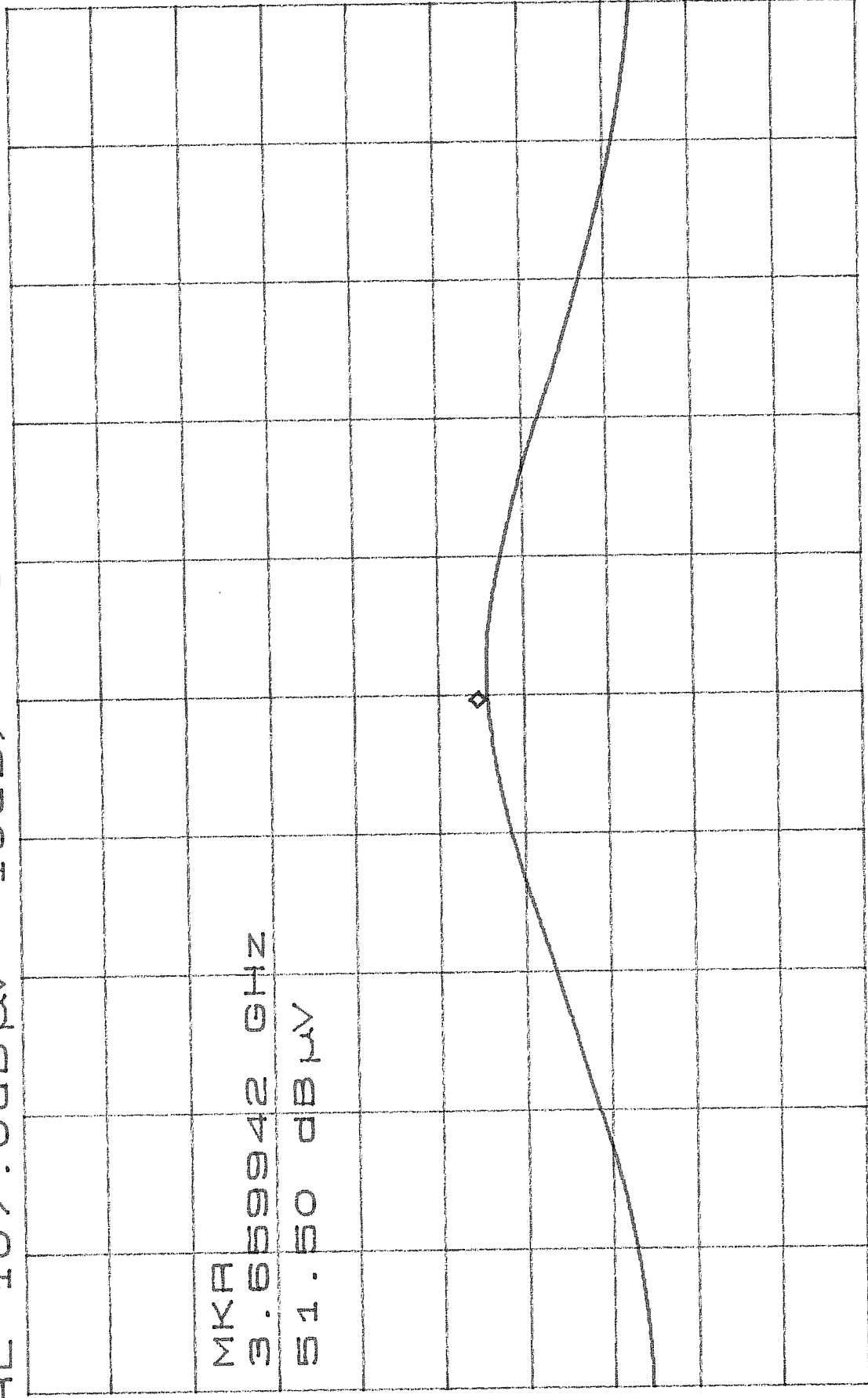
\*VBW 1.0MHz

SWP 50.0ms

ATTEEN 10dB  
RL 107.0dBμV 10dB/  
MKR 51.50dBμV 3.659942GHz

MKR  
3.659942 GHz  
51.50 dBμV

D



CENTER 3.659958GHz

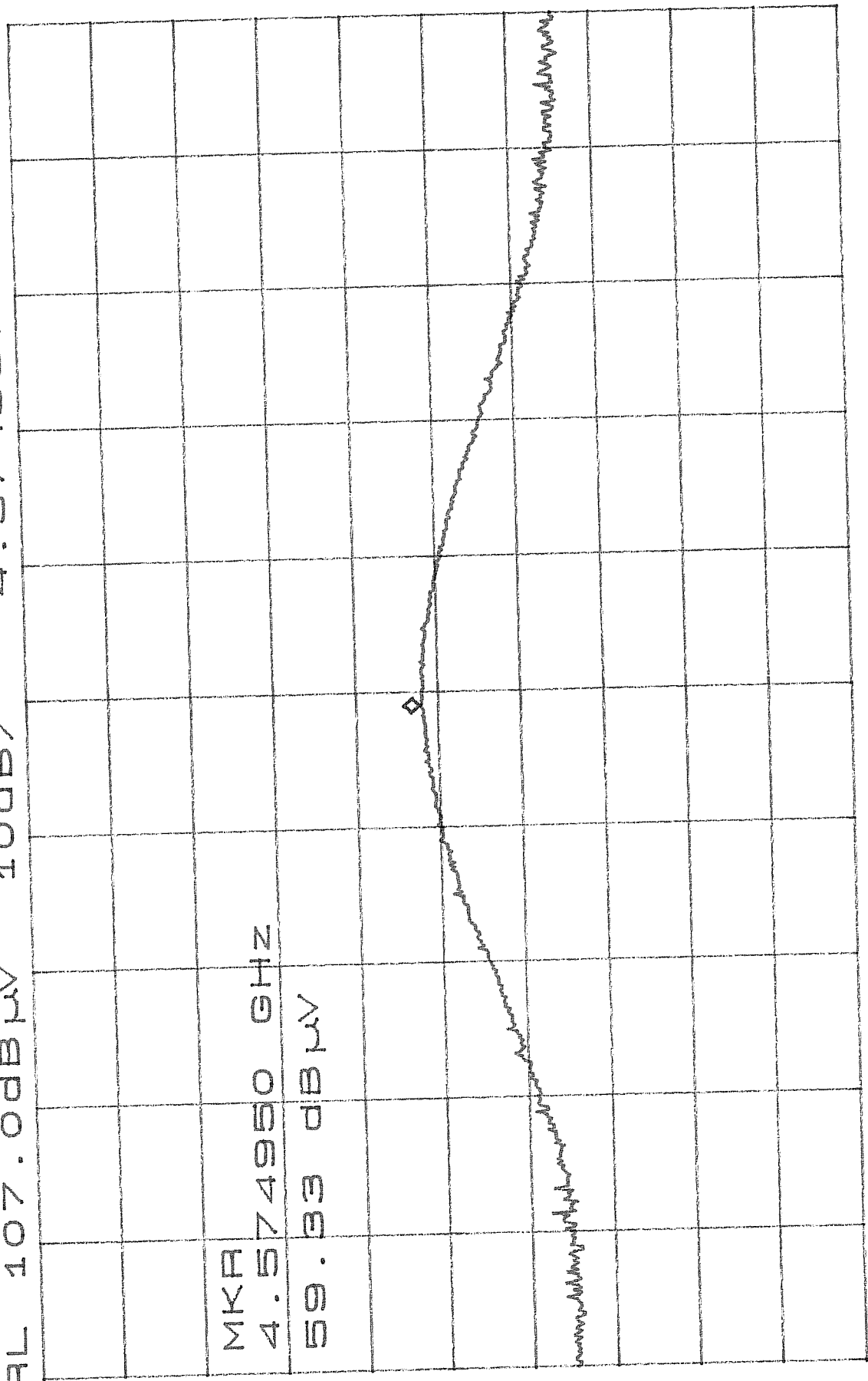
SPAN 5.000MHz

\*RBW 1.0MHz

\*VBW 10Hz

SWP 5.00sec

ATTEN 10dB MKR 59.33dBμV  
RL 107.0dBμV 4.574950GHz 10dB/



MKR  
4.574950 GHz  
59.33 dBμV

CENTER 4.575000GHz SPAN 5.000MHz  
\*RBW 1.0MHz \*VBW 1.0MHz SWP 50.0ms

ATTEN 10dB

MKRA 49.50dB  $\mu$ V

RL 107.00dB  $\mu$ V

10dB/

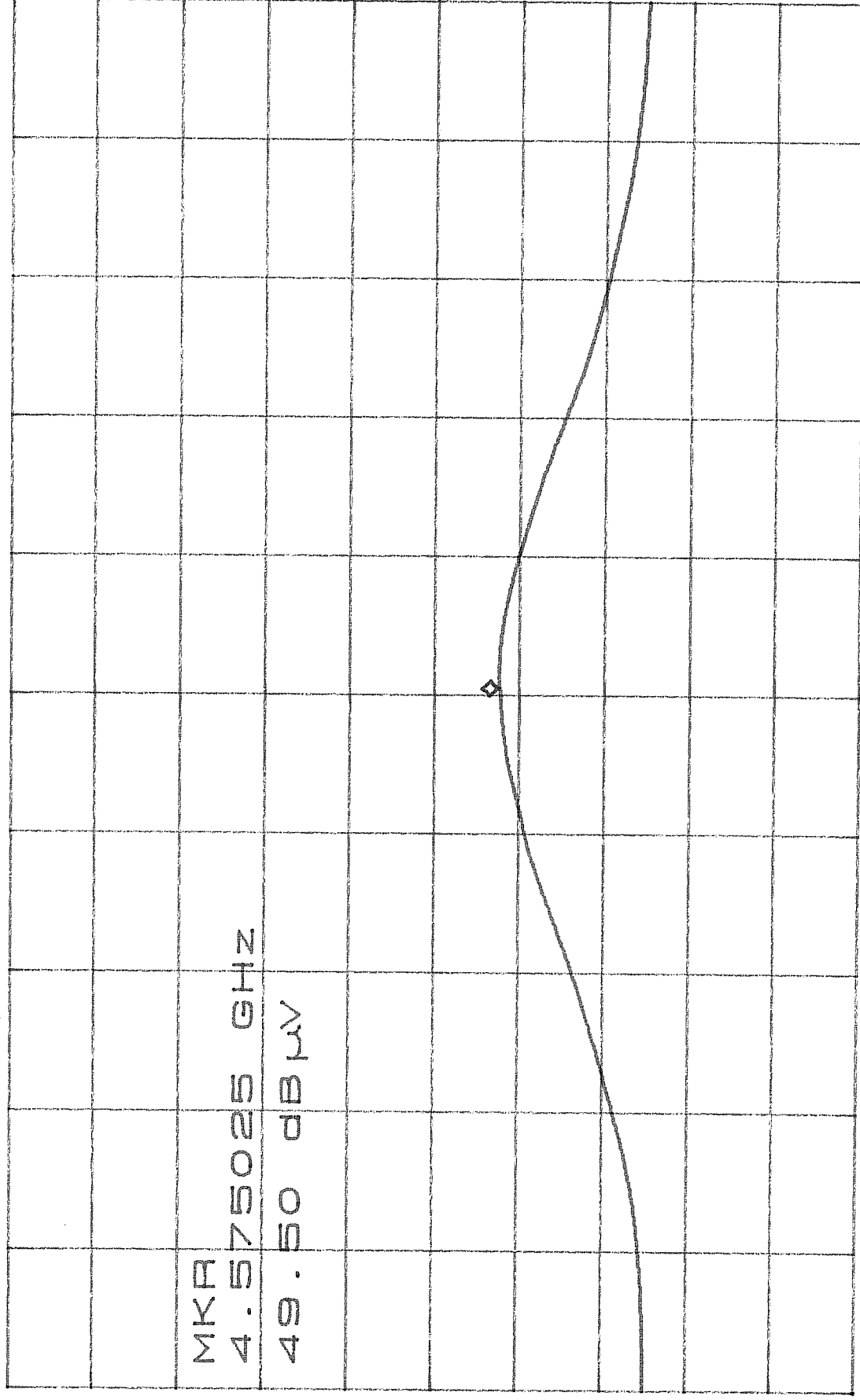
4.575025GHz

MKRA

4.575025 GHz

49.50 dB  $\mu$ V

D



CENTER 4.575000GHz

SPAN 5.000MHz

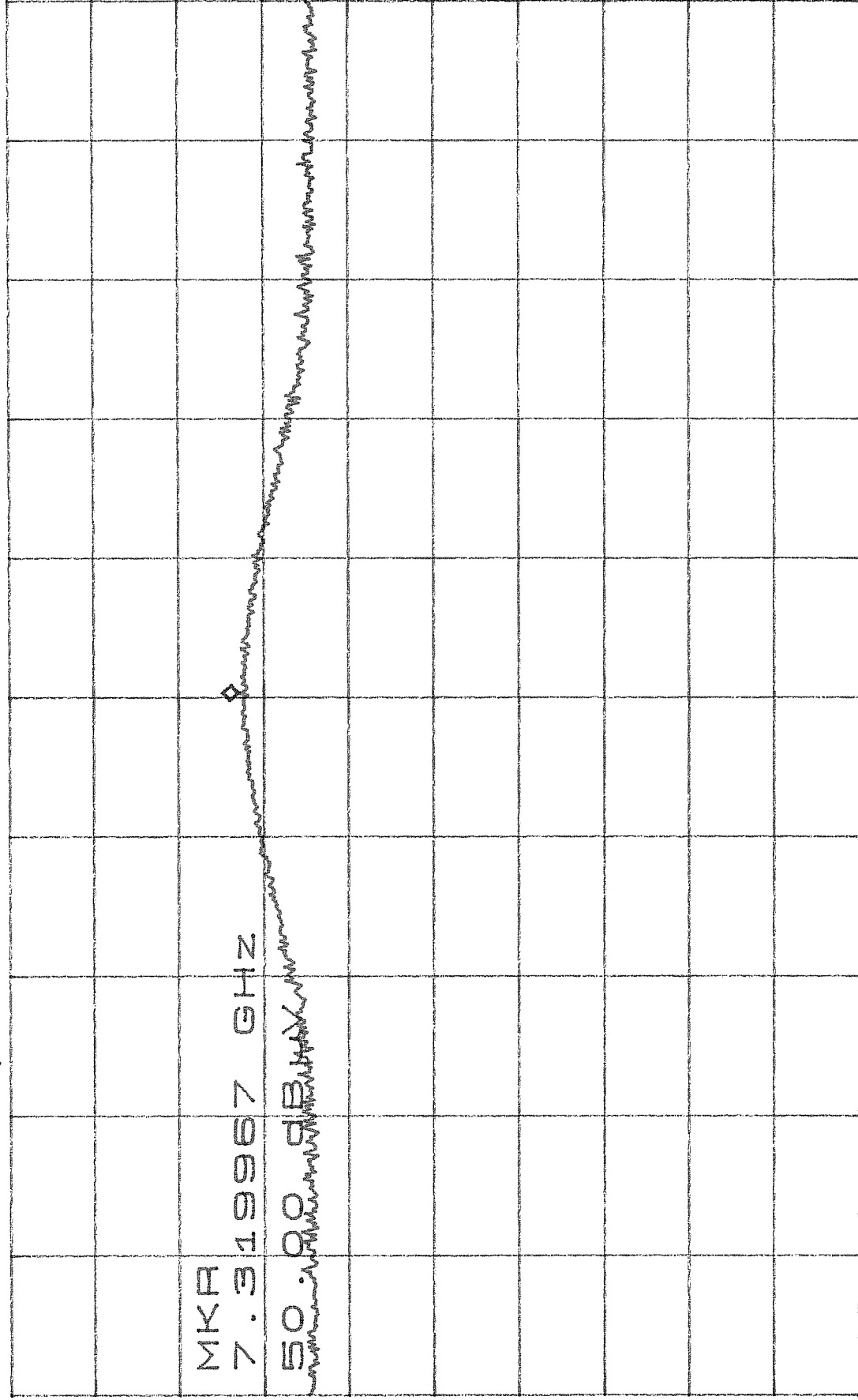
\*RBW 1.0MHz

\*VBW 10Hz

SWP 5.00sec



ATTEN 10dB MKR 50.00dBμV  
RL 77.00dBμV 10dB/ 7.319967GHz



D

CENTER 7.319950GHz SPAN 5.000MHz  
\*RBW 1.0MHz \*VBW 1.0MHz SWP 50.0ms

ATTEN 10dB MKR 36.50dBμV

RL 77.00dBμV 7.319958GHz

10dB/

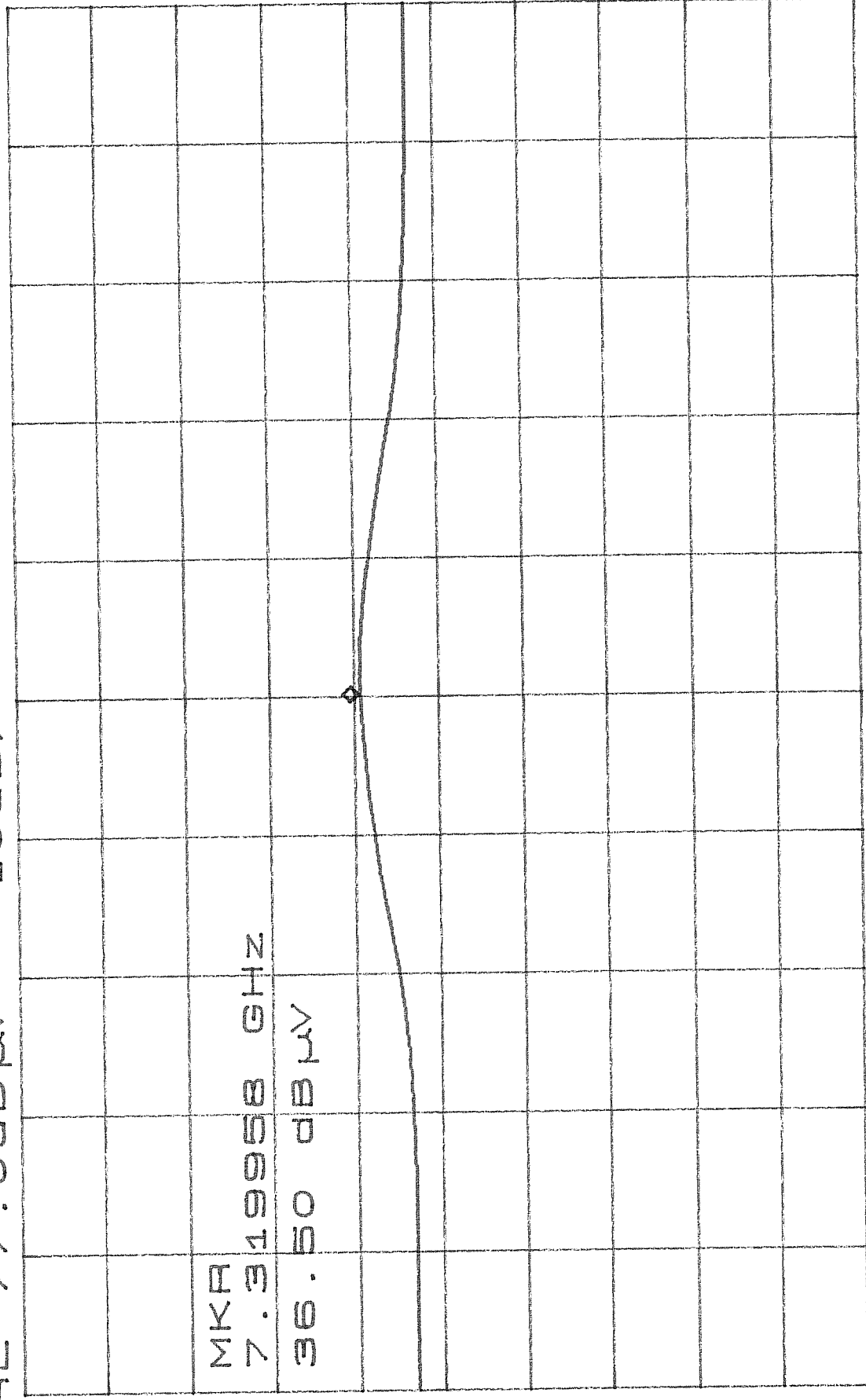
7.319958 GHz

MKR

7.319958 GHz

36.50 dBμV

D



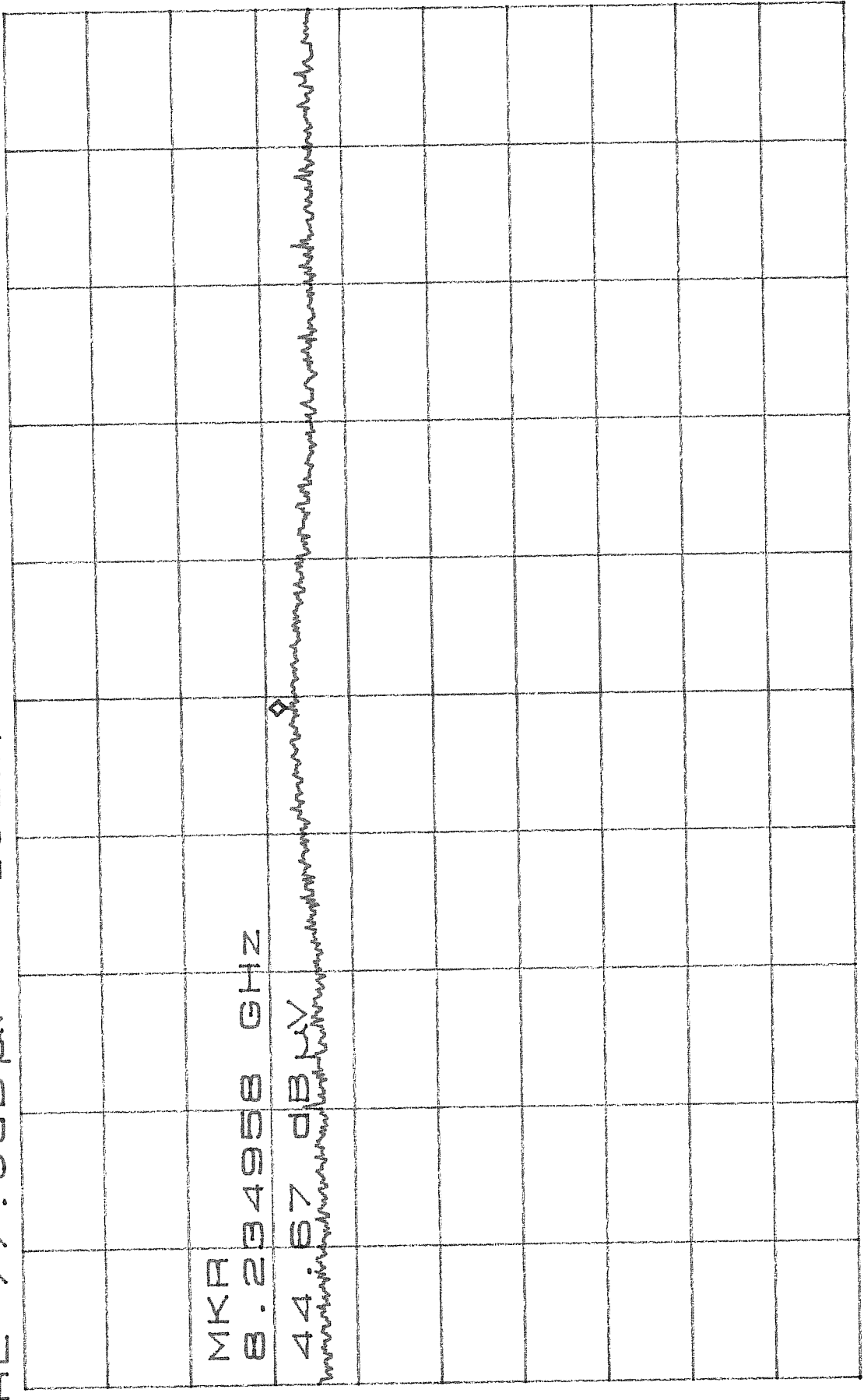
CENTER 7.319958GHz

\*RBW 1.0MHz \*VBW 10Hz

SPAN 5.000MHz

SWP 5.00sec

ATTEN 10dB MKR 44.67dBμV  
RL 77.0dBμV 8.234958GHz 10dB/



CENTER 8.235000GHZ SPAN 5.000MHZ  
\*RBW 1.0MHZ \*VBW 1.0MHZ SWP 50.0ms

ATTEN 10dB

MKPR 32.33dBμV

RL 77.0dBμV

10dB/

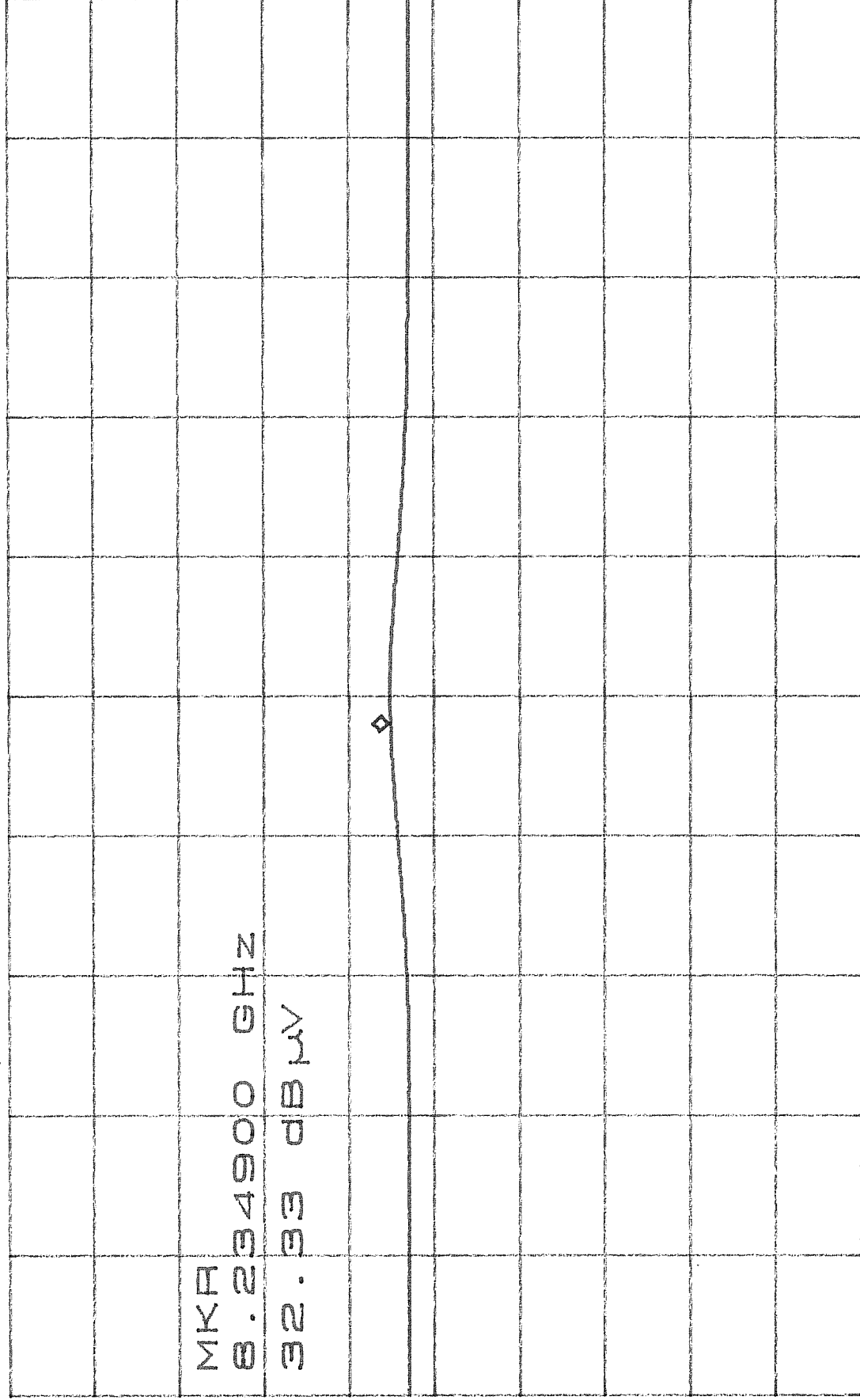
8.234900GHz

MKPR

8.234900 GHz

32.33 dBμV

D



CENTER 8.235000GHz

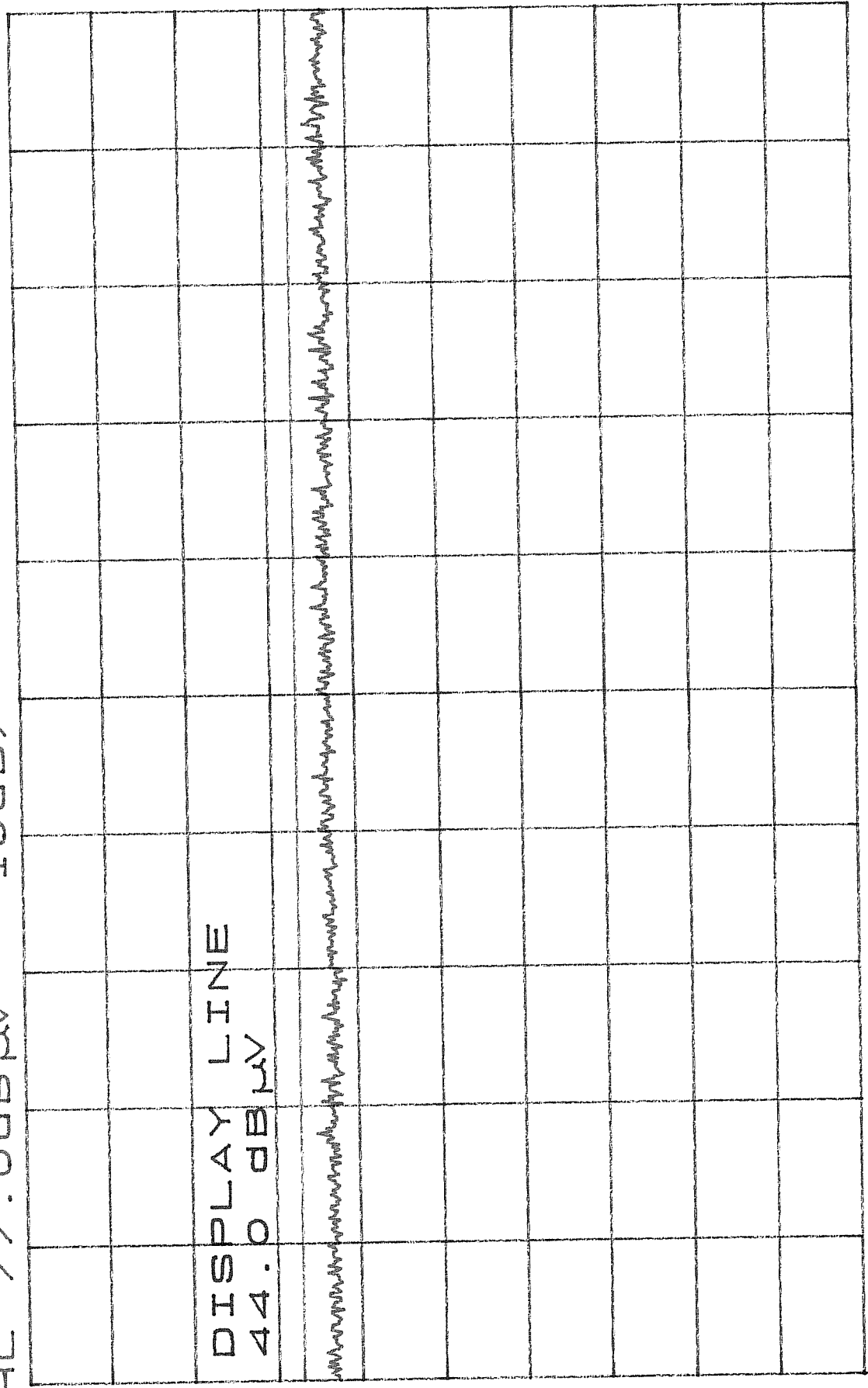
SPAN 5.000MHz

\*RBW 1.0MHz

\*VBW 10Hz

SWP 5.00sec

ATTEN 10dB  
PL 77.0dBμV 10dB/



DISPLAY LINE  
44.0 dBμV

START 8.300GHZ STOP 10.000GHZ  
\*RBW 1.0MHZ \*VBW 1.0MHZ SWP 50.0MS

## Middle Channel

ATTEN 10dB

RL 107.0dBμV

10dB/

MKR 64.83dBμV

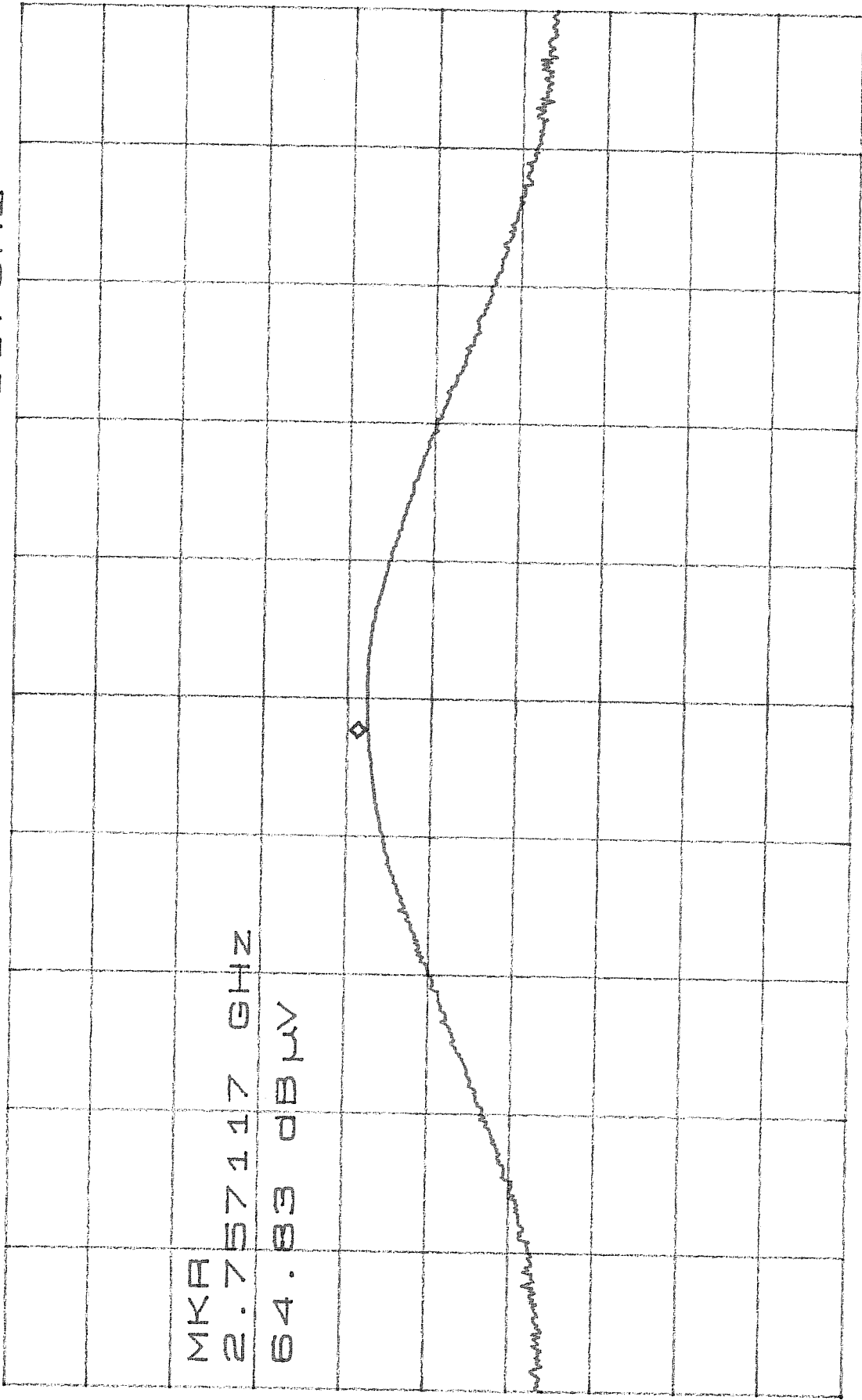
2.757117GHz

MKR

2.757117 GHz

64.83 dBμV

D



CENTER 2.757233GHz

\*RBW 1.0MHz

VBW 1.0MHz

SPAN 5.000MHz

SWP 50.0ms

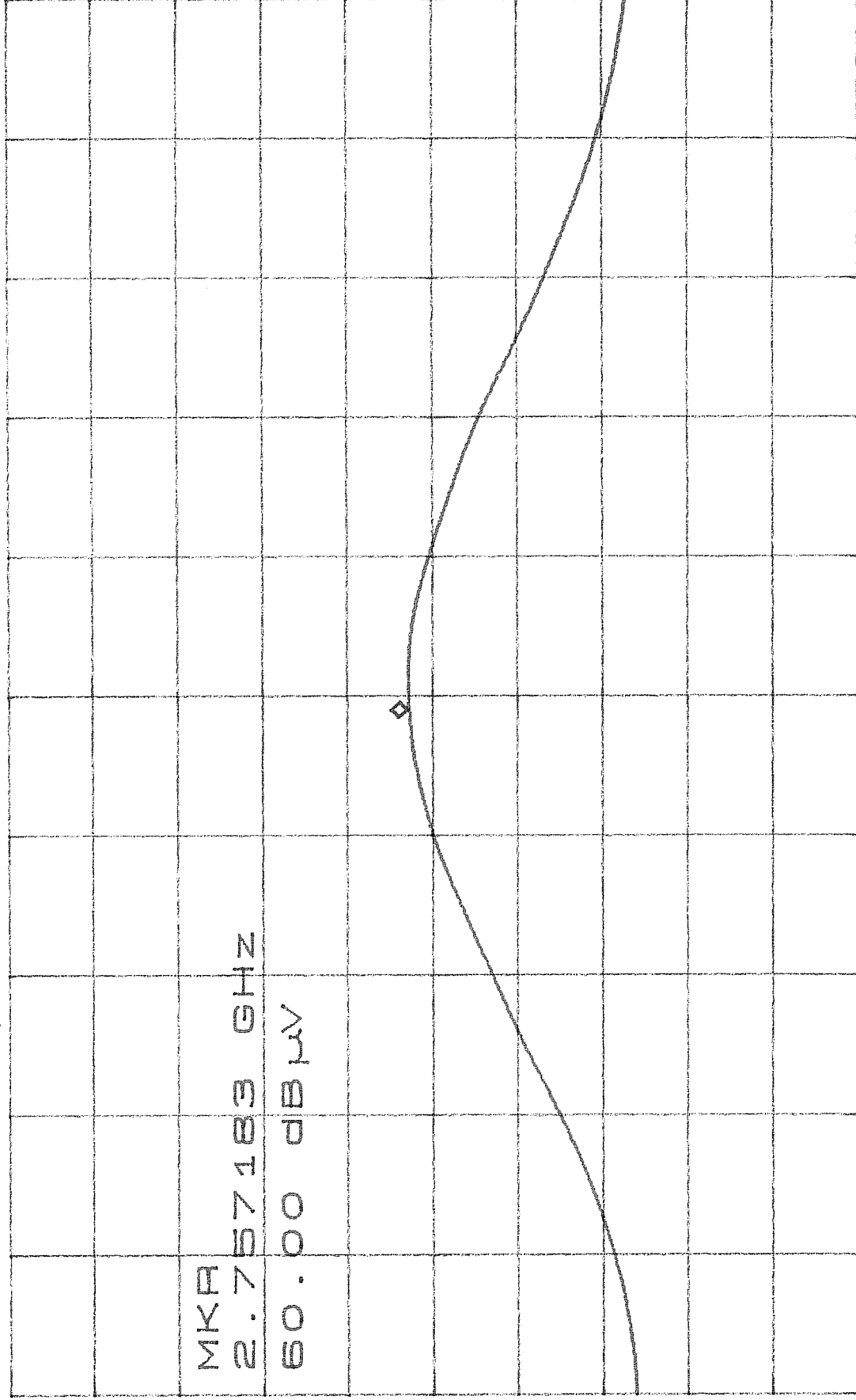
ATTEN 10dB

RL 107.00dBμV

10dB/

MKR 60.00dBμV

2.757183GHz



MKR

2.757183 GHz

60.00 dBμV

D

CENTER 2.757233GHz

\*RBW 1.0MHz \*VBW 10Hz

SPAN 5.000MHz

SWP 5.00sec



ATTEN 10dB

MKRA 65.00dBμV

RL 107.00dBμV

10dB/

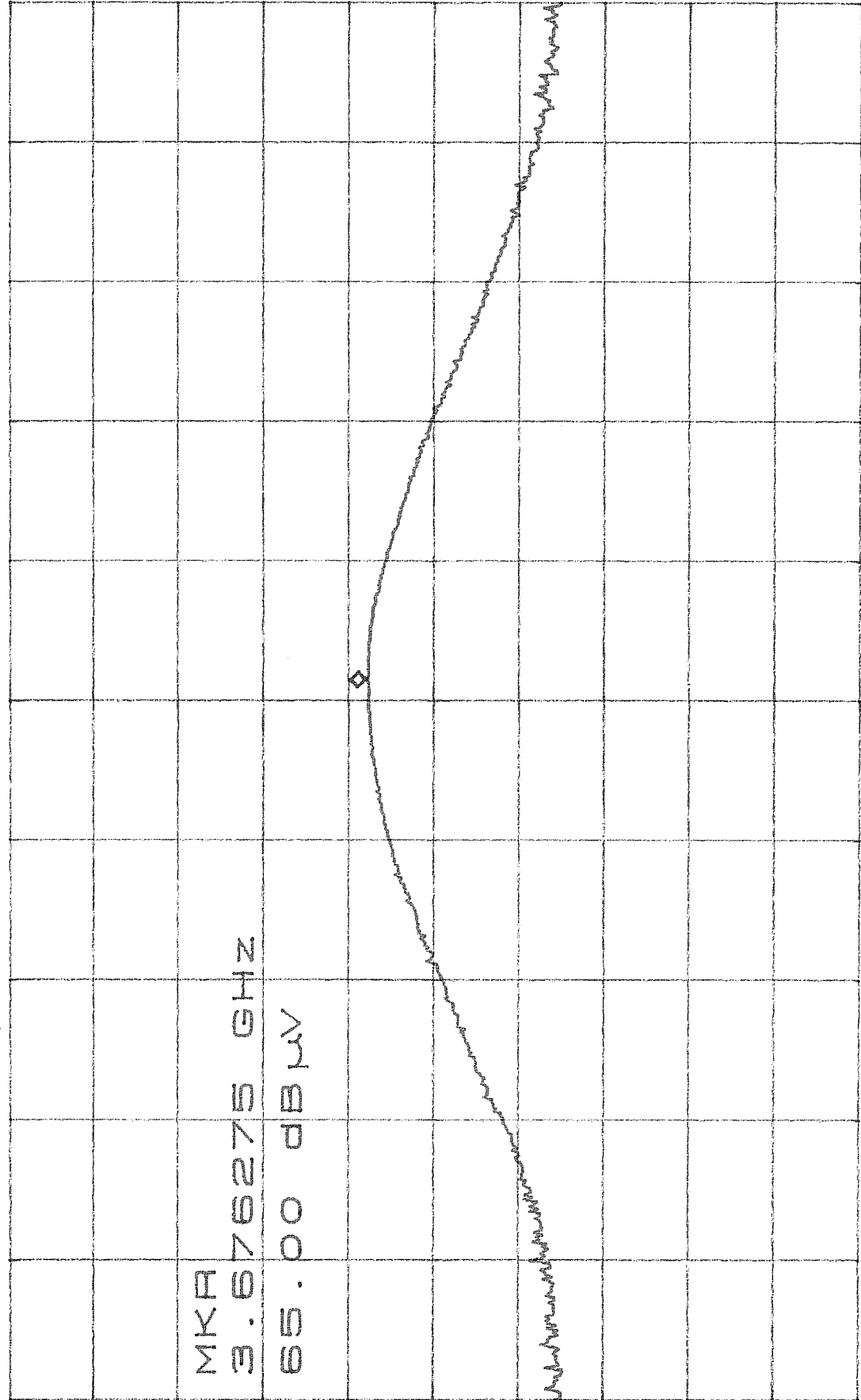
3.676275GHz

MKRA

3.676275 GHz

65.00 dBμV

D



CENTER 3.676200GHz

SPAN 5.000MHz

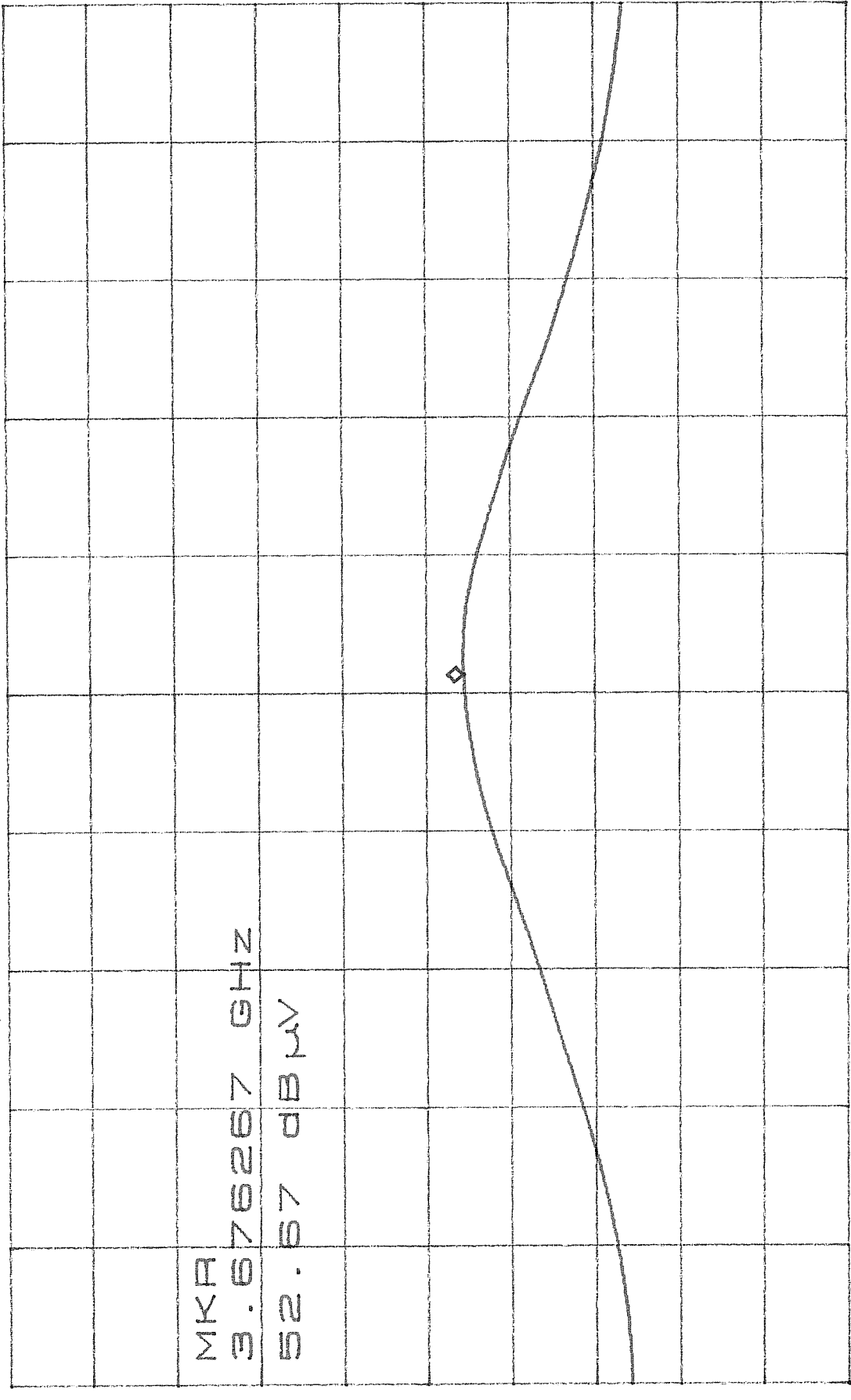
\*RBW 1.0MHz

\*VBW 1.0MHz

SWP 50.0ms

ATTEN 10dB MKR 52.67dBμV

RL 107.0dBμV 3.676267GHz



MKR  
3.676267 GHz  
52.67 dBμV

CENTER 3.676200GHz SPAN 5.000MHz  
\*RBW 1.0MHz \*VBW 10Hz SWP 5.000sec

ATTEN 10dB

MKR 58.67dBμV

RL 107.0dBμV

10dB/

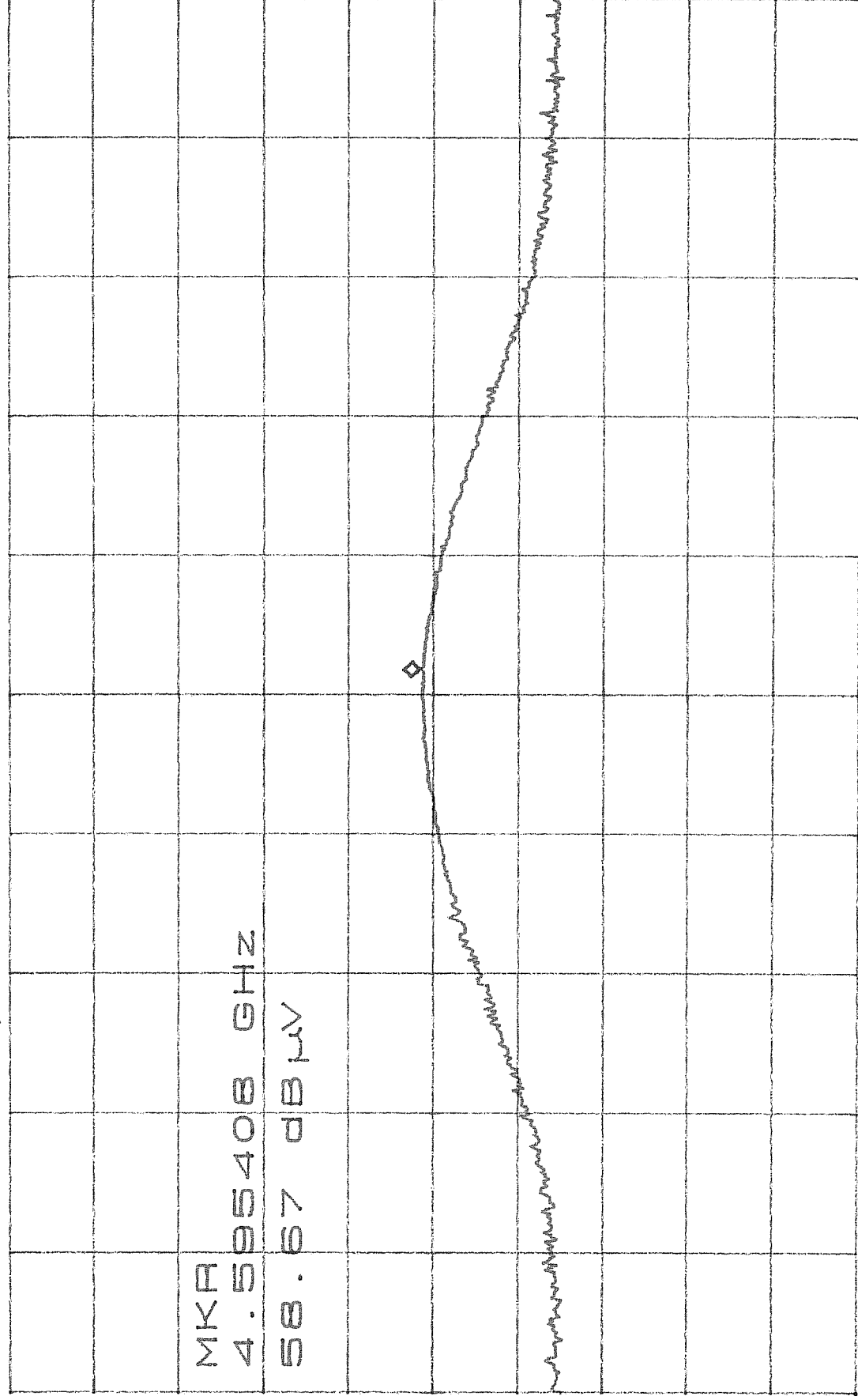
4.595408GHz

MKR

4.595408 GHz

58.67 dBμV

D



CENTER 4.595317GHz

SPAN 5.000MHz

\*RBW 1.0MHz

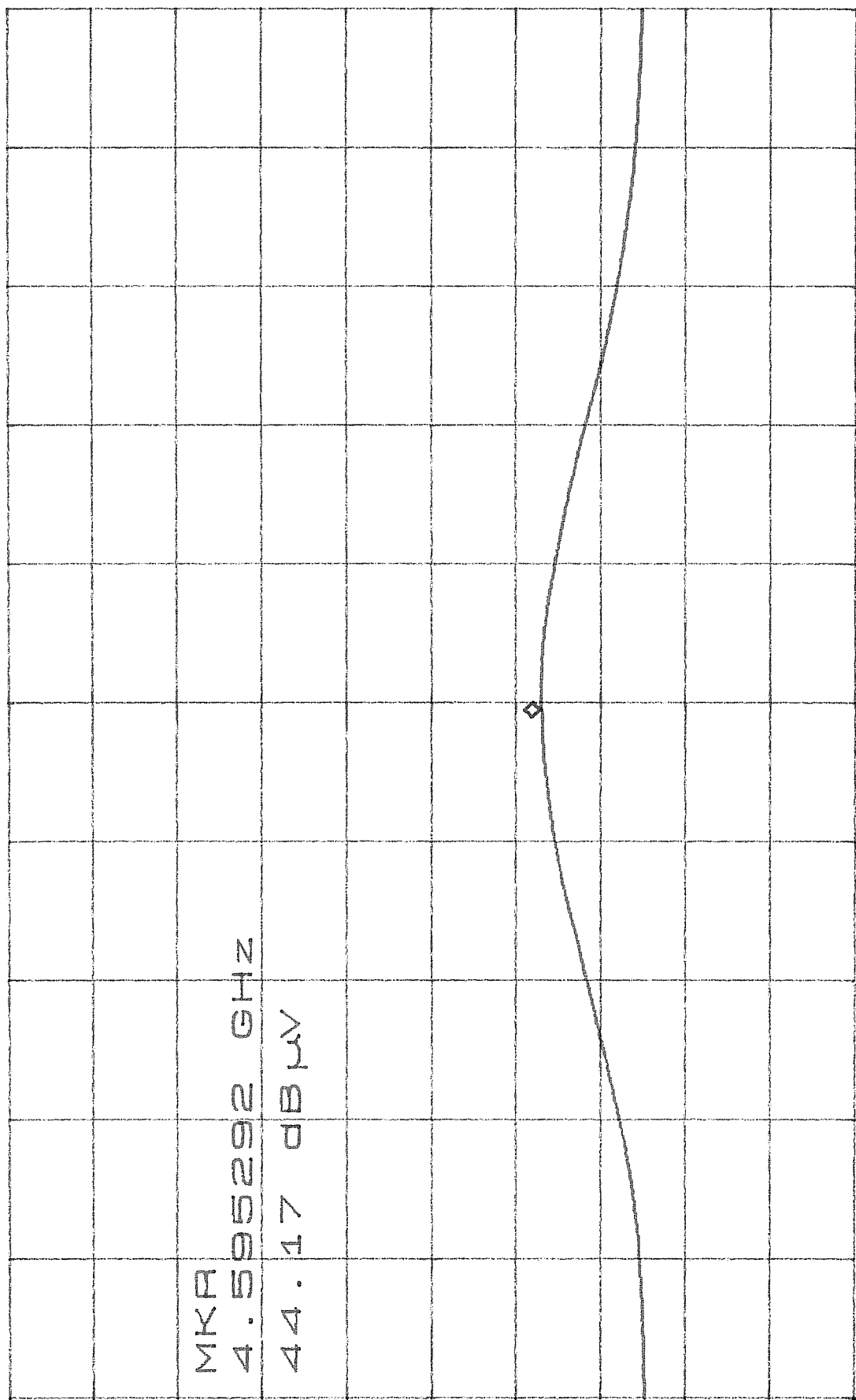
\*VBW 1.0MHz

SWP 50.0ms

ATTEN 10dB MKR 44.17dBμV  
RL 107.0dBμV 10dB/ 4.595292GHz

MKR  
4.595292 GHz  
44.17 dBμV

D



CENTER 4.595317GHz SPAN 5.000MHz  
\*RBW 1.0MHz \*VBW 10Hz SWP 5.00sec

AVTHTZ

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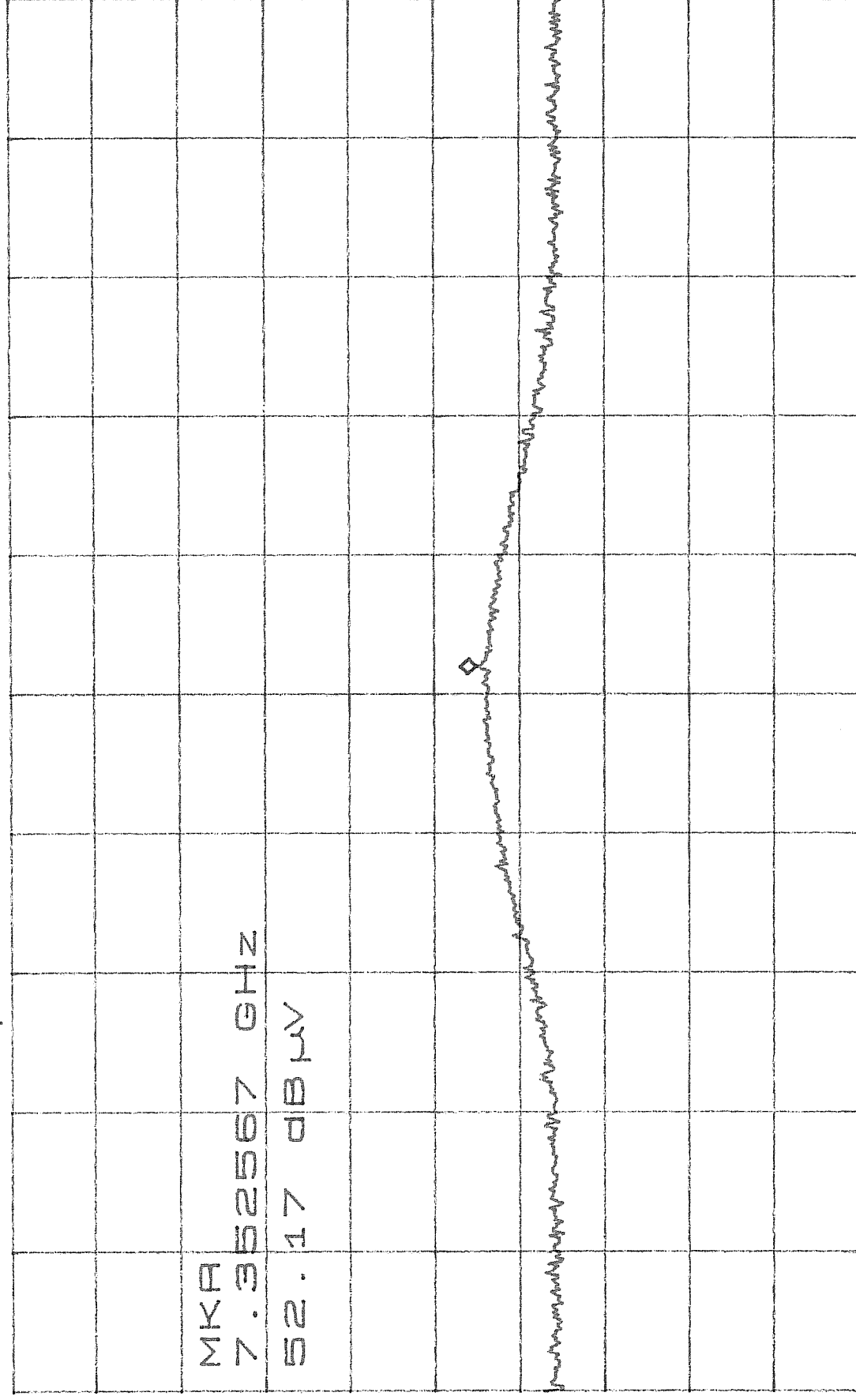
RL 107.03B K3

REPORT

2000

$\Gamma$   
 $\Upsilon$   
 $\Sigma$

N I O N M M M M

$$\frac{3}{2} \times \frac{3}{2} = \frac{9}{4}$$


NIOWAN  
RENTAL

NIΣΟΟ. ΝΑΔΣ

NIΣΟ. Η  
ΣΜΕΧ

NIPO. 4 MB > \*

SECRET

D

ATTEN 10dB

RL 107.0dBμV

10dB/

MKA 38.67dBμV

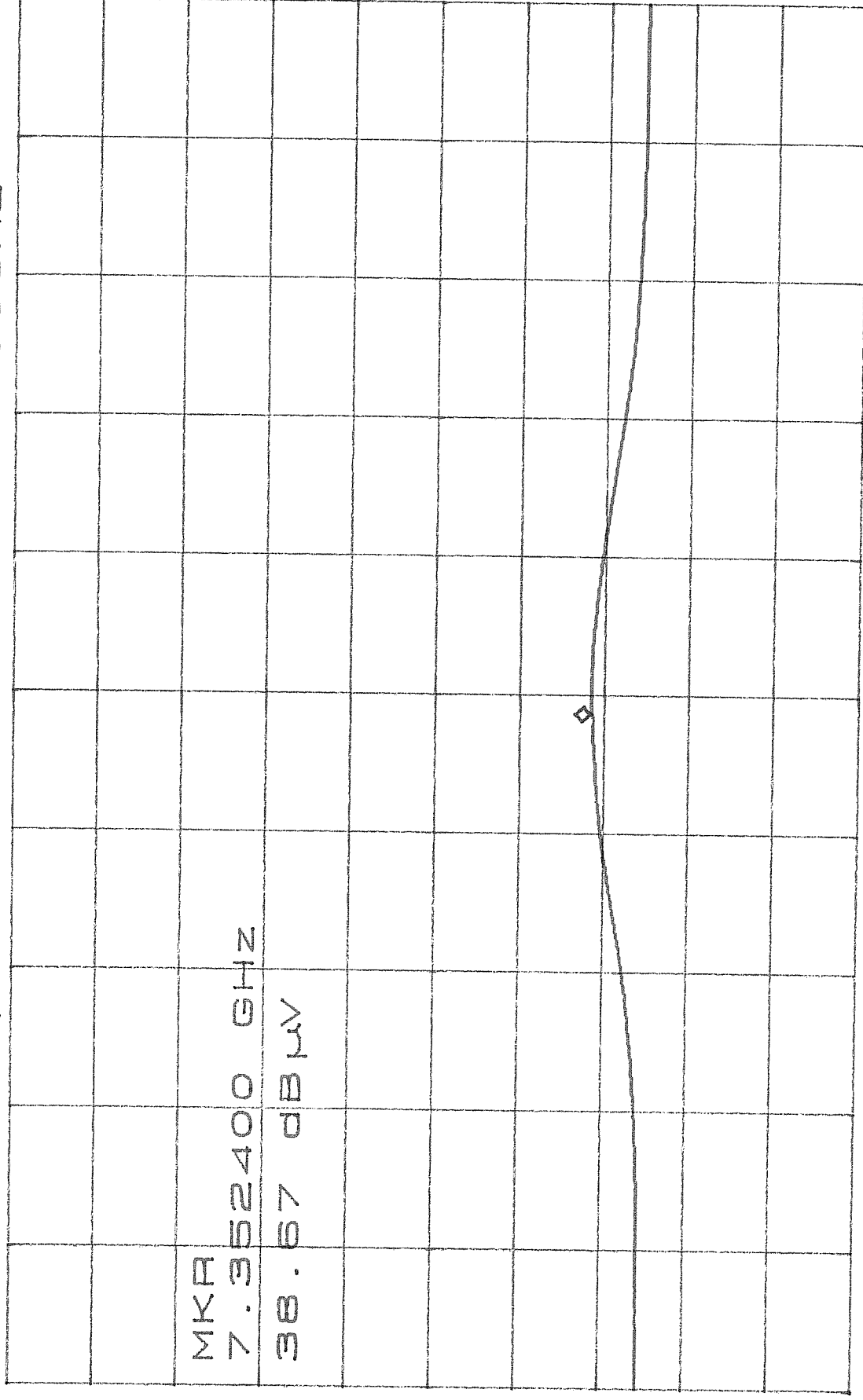
7.352400GHz

MKA

7.352400 GHz

38.67 dBμV

D



CENTER 7.352467GHz

SPAN 5.000MHz

\*RBW 1.0MHz \*VBW 10Hz

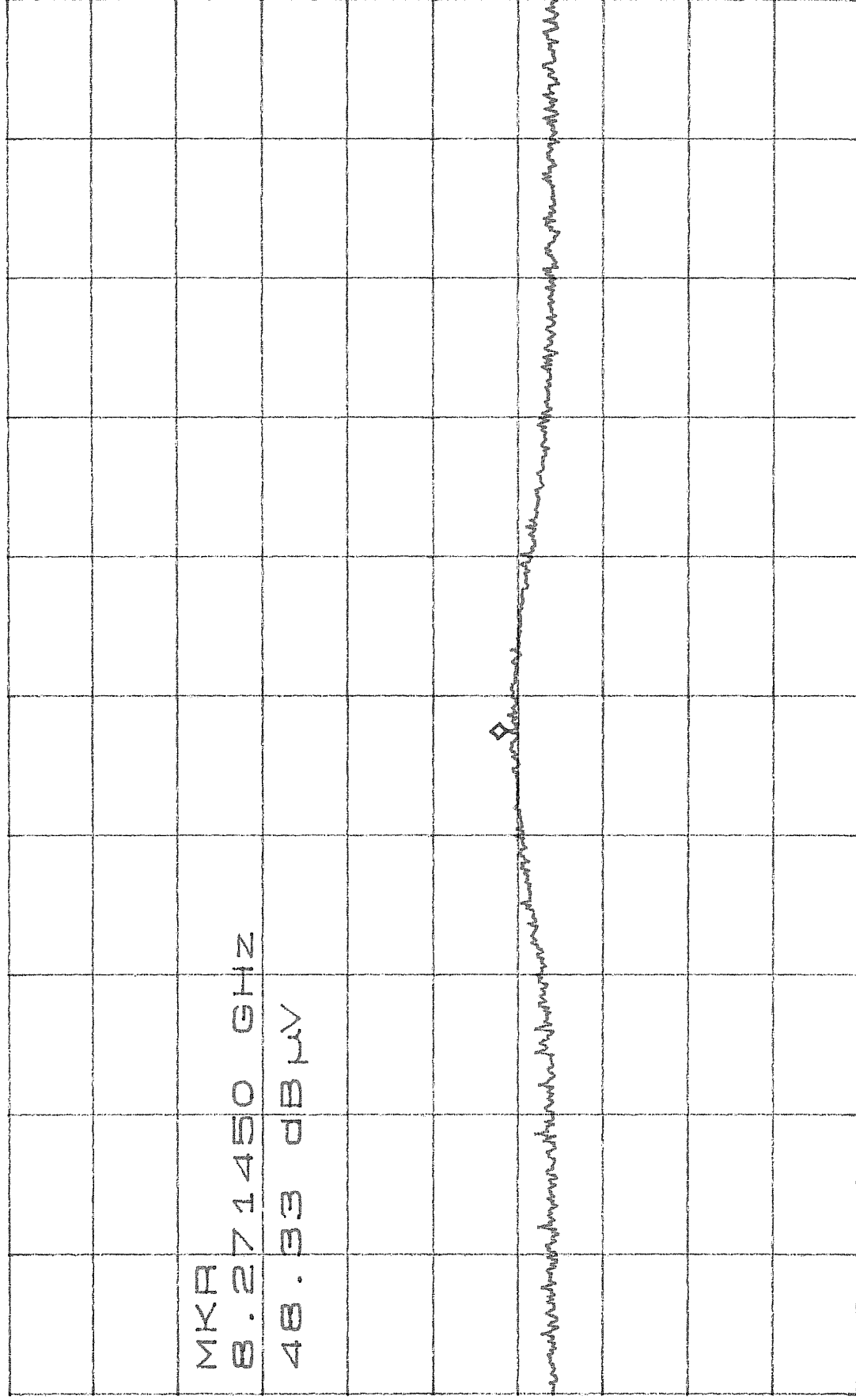
SWP 5.00sec

ATTEN 10dB

MKII 48.33dBμV

PL 107.00dBμV 10dB/

8.271450GHz



D

CENTER 8.271575GHz

SPAN 5.000MHz

\*RBW 1.0MHz

\*VBW 1.0MHz

SWP 50.0ms

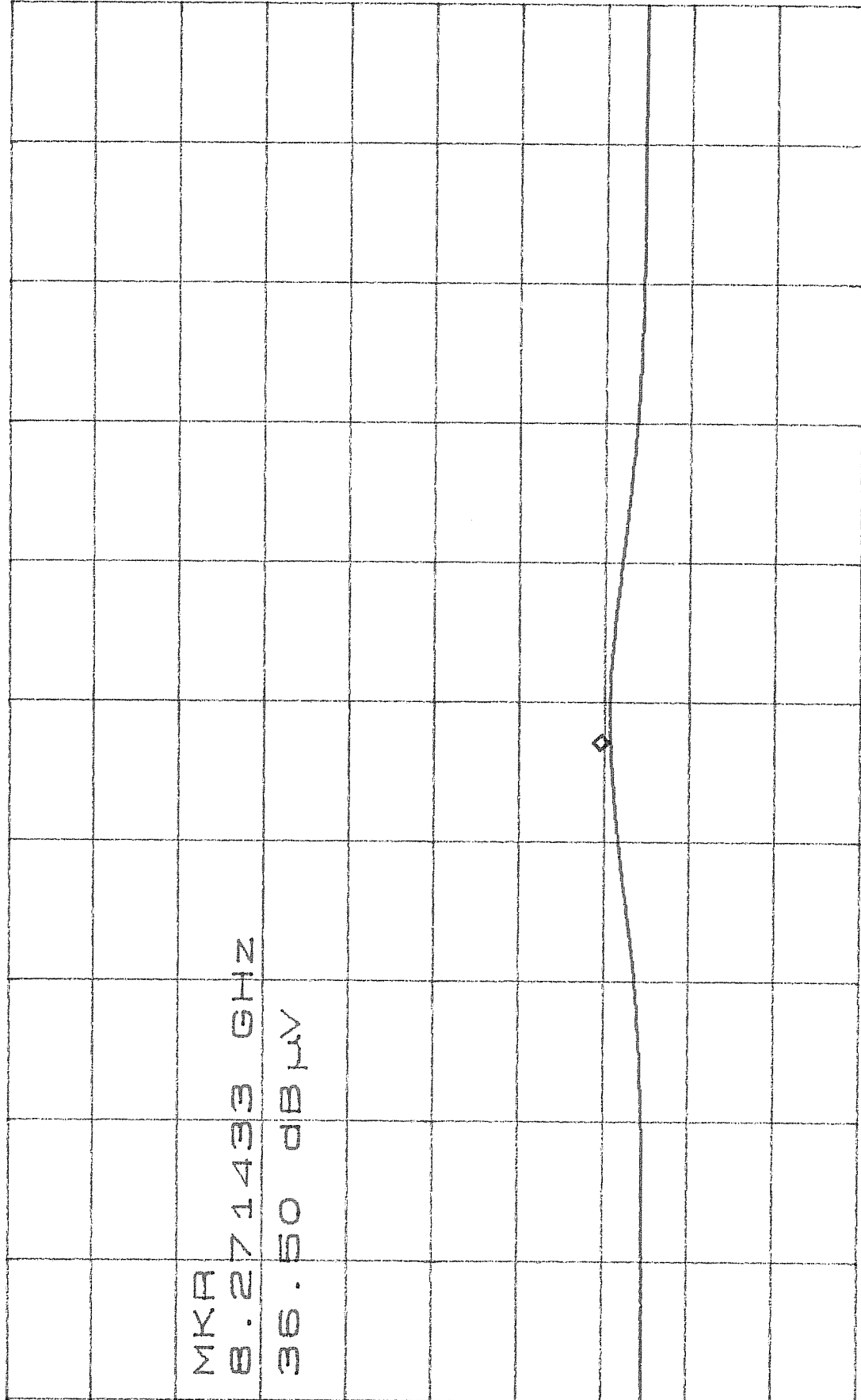
ATTEN 10dB

MKA 36.50dBμV

PL 107.00dBμV

10dB/

8.271433GHz



D

CENTER 8.271575GHz

SPAN 5.000MHz

\*RBW 1.0MHz

\*VBW 10Hz

SWP 5.00sec



ATTEN 10d

MKA 41.50dB  $\mu$ V

RL 77.0dB  $\mu$ V

10dB/

9.150GHz

DISPLAY LINE  
42.0 dB  $\mu$ V



START 8.300GHz

STOP 10.000GHz

\*RBW 1.0MHz

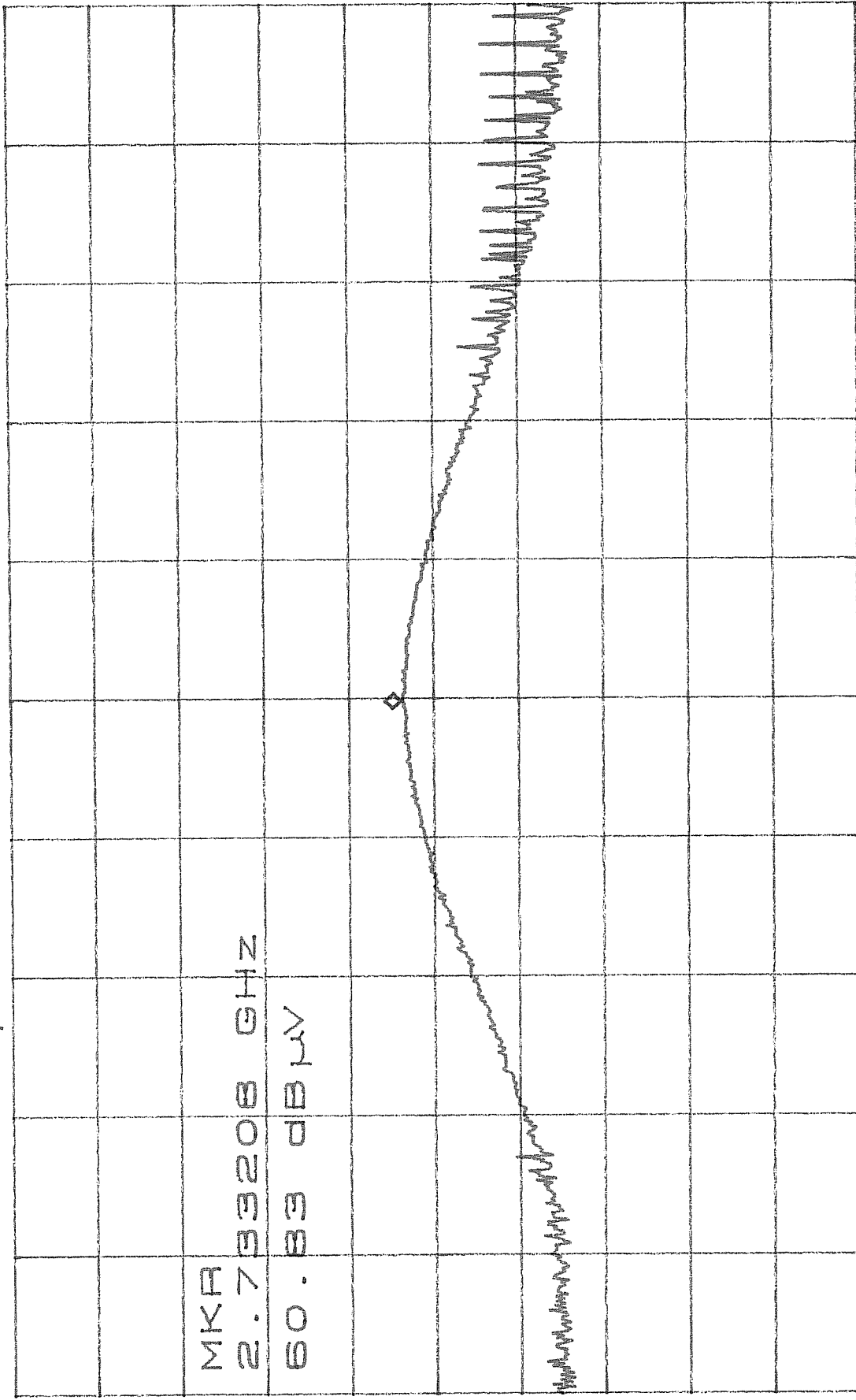
\*VBW

1.0MHz

SWP 50.0ms

## High Channel

ATTEN 10dB MKR 60.83dBμV  
RL 107.0dBμV 10dB/ 2.733208GHz



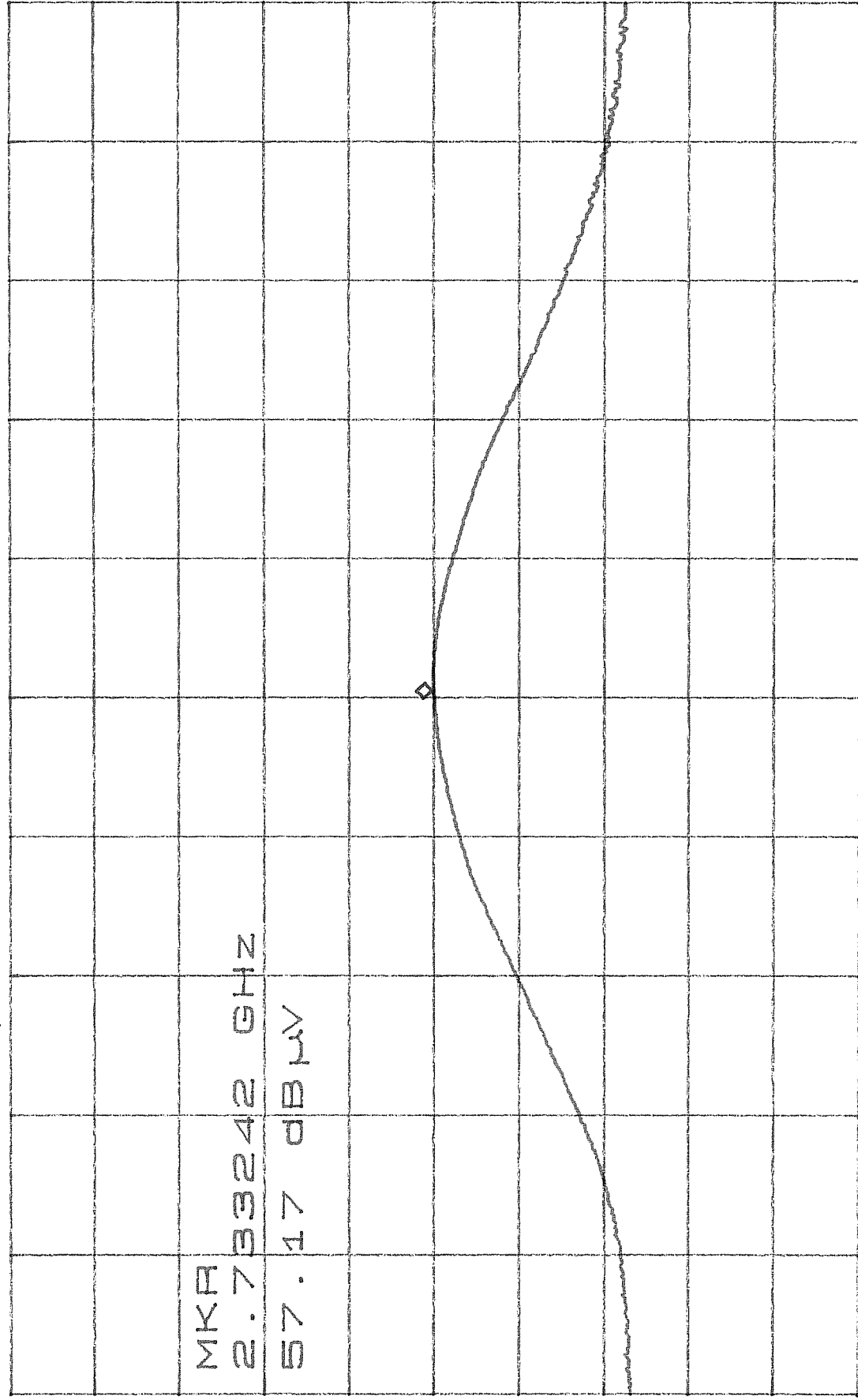
CENTER 2.733217GHz SPAN 5.000MHz  
\*RBW 1.0MHz \*VBW 1.0MHz SWP 50.0ms

ATTEN 10dB

MKA 57.17dBμV

RL 107.00dBμV

2.733242GHz



D

CENTER 2.733242GHz

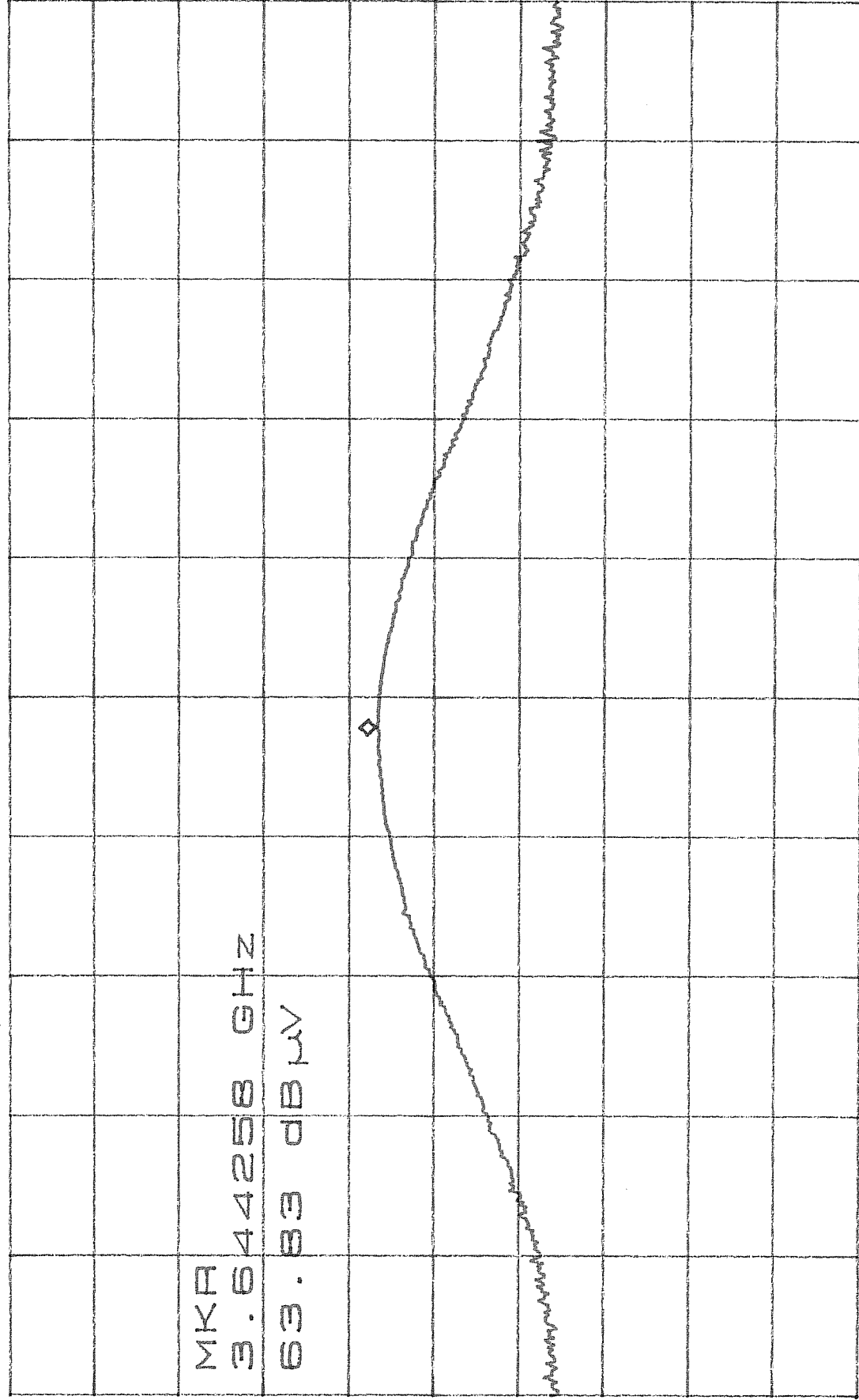
SPAN 5.000MHz

\*RBW 1.0MHz

\*VBW 10kHz

SWP 50.0ms

ATTEN 10dB MKR 63.83dB  $\mu$ V  
RL 107.0dB  $\mu$ V 10dB/ 3.644258GHz



D

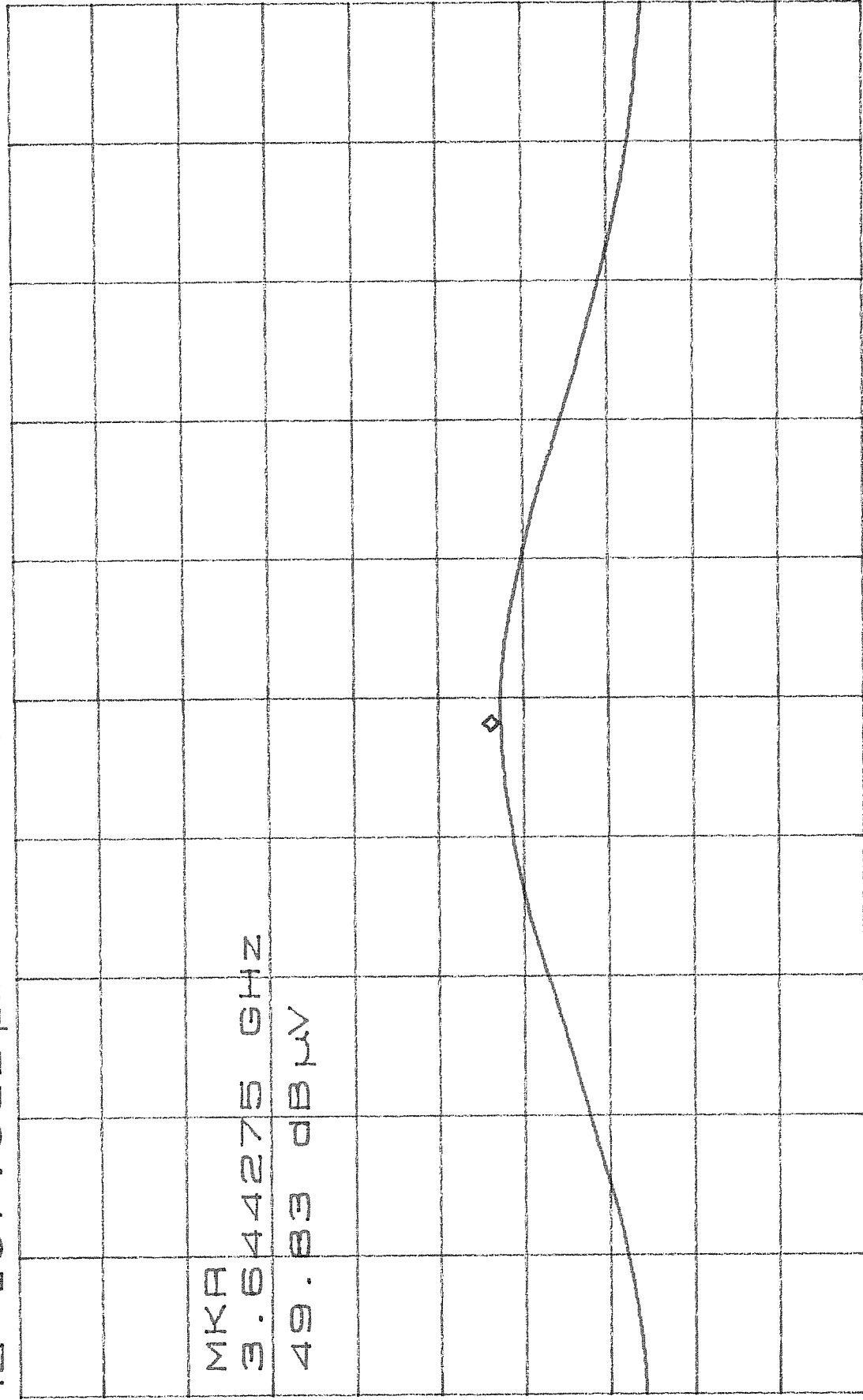
CENTER 3.644367GHz SPAN 5.000MHz  
\*RBW 1.0MHz \*VBW 1.0MHz SWP 50.0ms

ATTEN 10dB MKR 49.83dBμV

RL 107.0dBμV 10dB/ 3.644275GHz

MKR  
3.644275 GHz  
49.83 dBμV

D



CENTER 3.644367GHz

\*RBW 1.0MHz \*VBW 10Hz

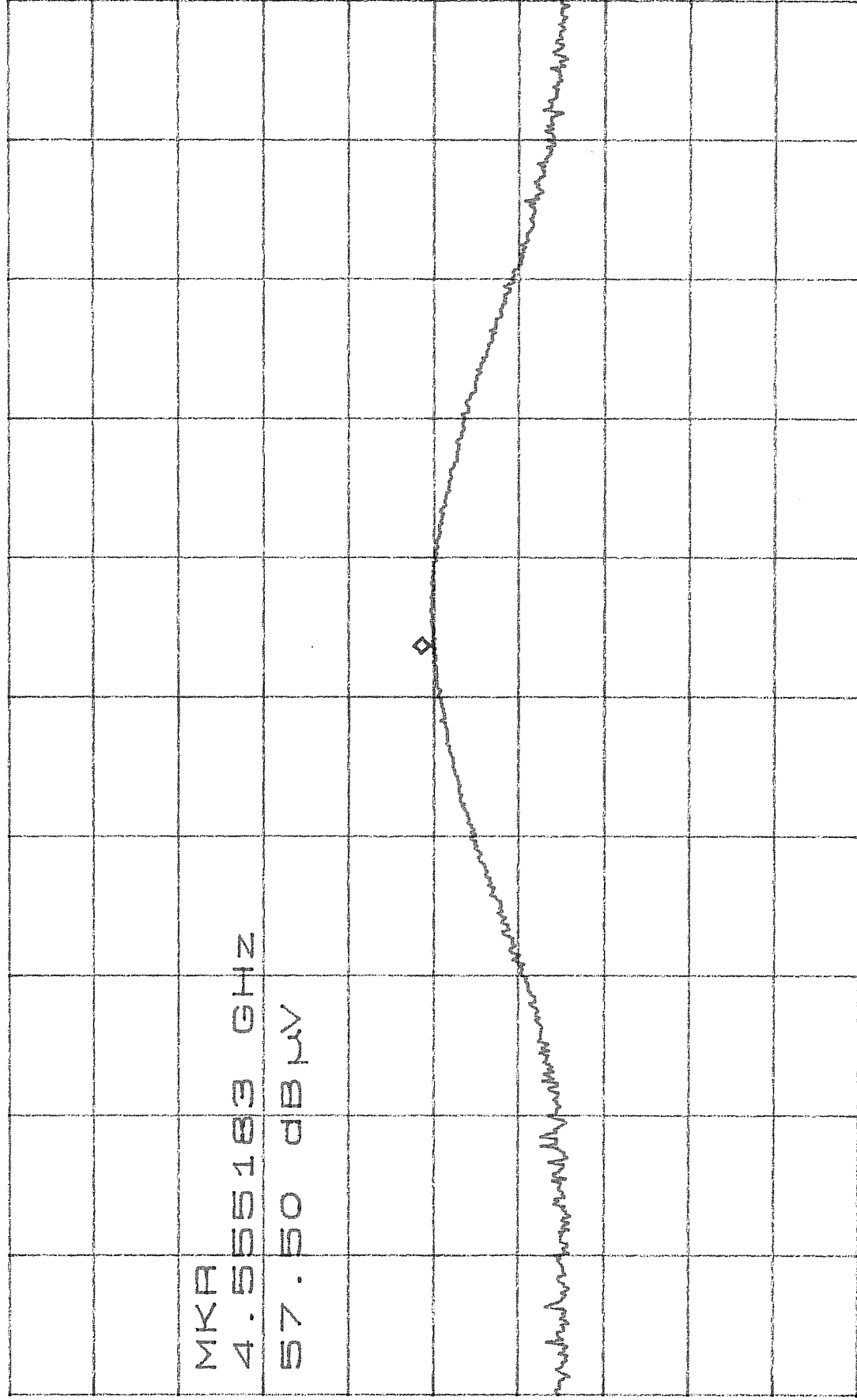
SPAN 5.000MHz

SWP 5.000sec

ATTEN 10dB MKR 57.50dB $\mu$ V  
RL 107.0dB $\mu$ V 4.555183GHz

MKR  
4.555183 GHz  
57.50 dB $\mu$ V

D



CENTER 4.555000GHz

SPAN 5.000MHz

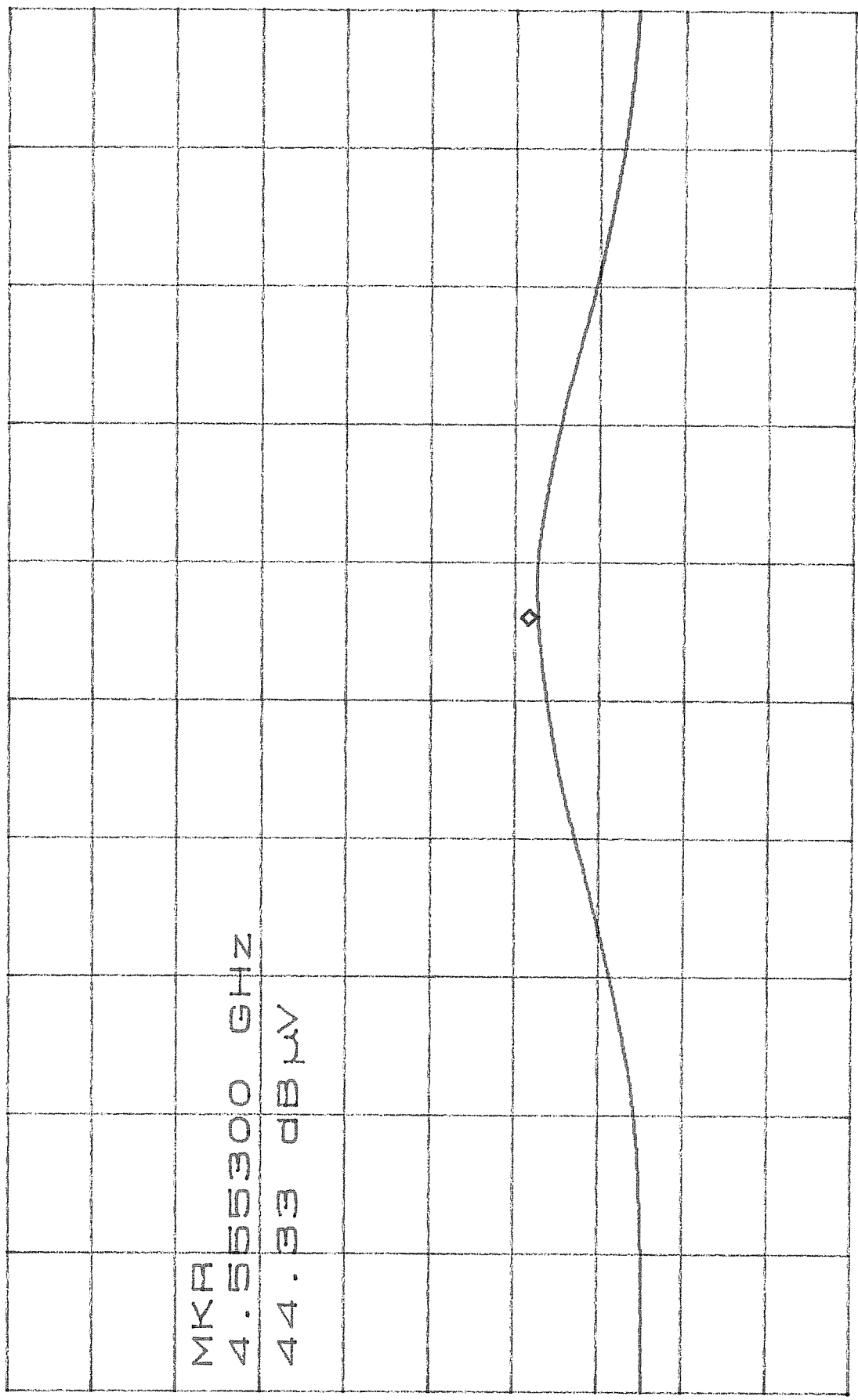
\*RBW 1.0MHz

\*VBW 1.0MHz

SWP 50.0ms

ATTEN 10dB MKR 44.33dBμV  
RL 107.0dBμV 10dB/ 4.55300GHz

MKR  
4.55300 GHz  
44.33 dBμV



CENTER 4.553000GHz SPAN 5.000MHz  
\*RBW 1.0MHz \*VBW 10Hz SWP 5.00sec



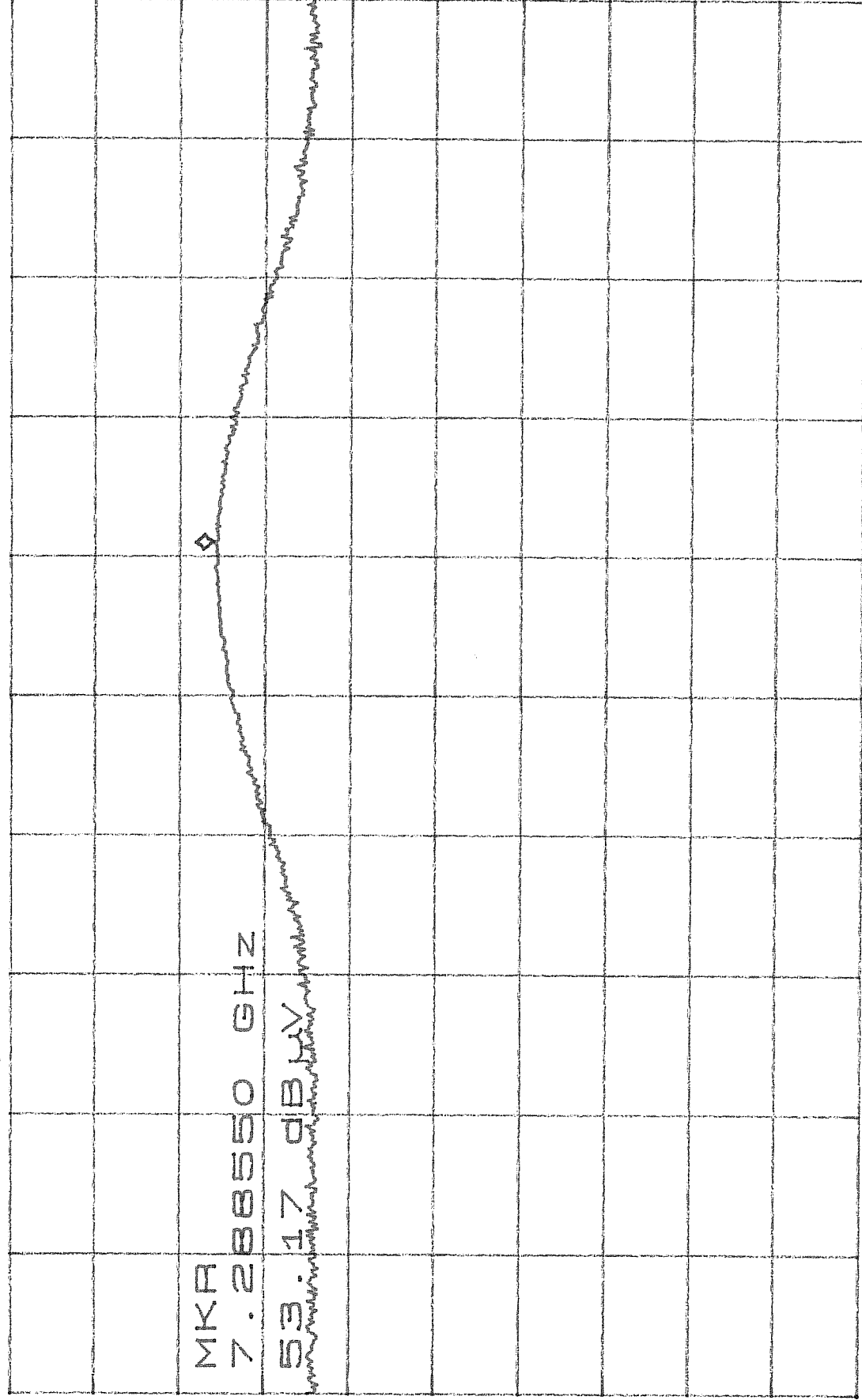
ATTEN 10dB

MKRA 53.17dBμV

RL 77.0dBμV

10dB/

7.288550GHZ



D

CENTER 7.288000GHZ

SPAN 5.000MHZ

\*RBW 1.0MHZ

\*VBW 1.0MHZ

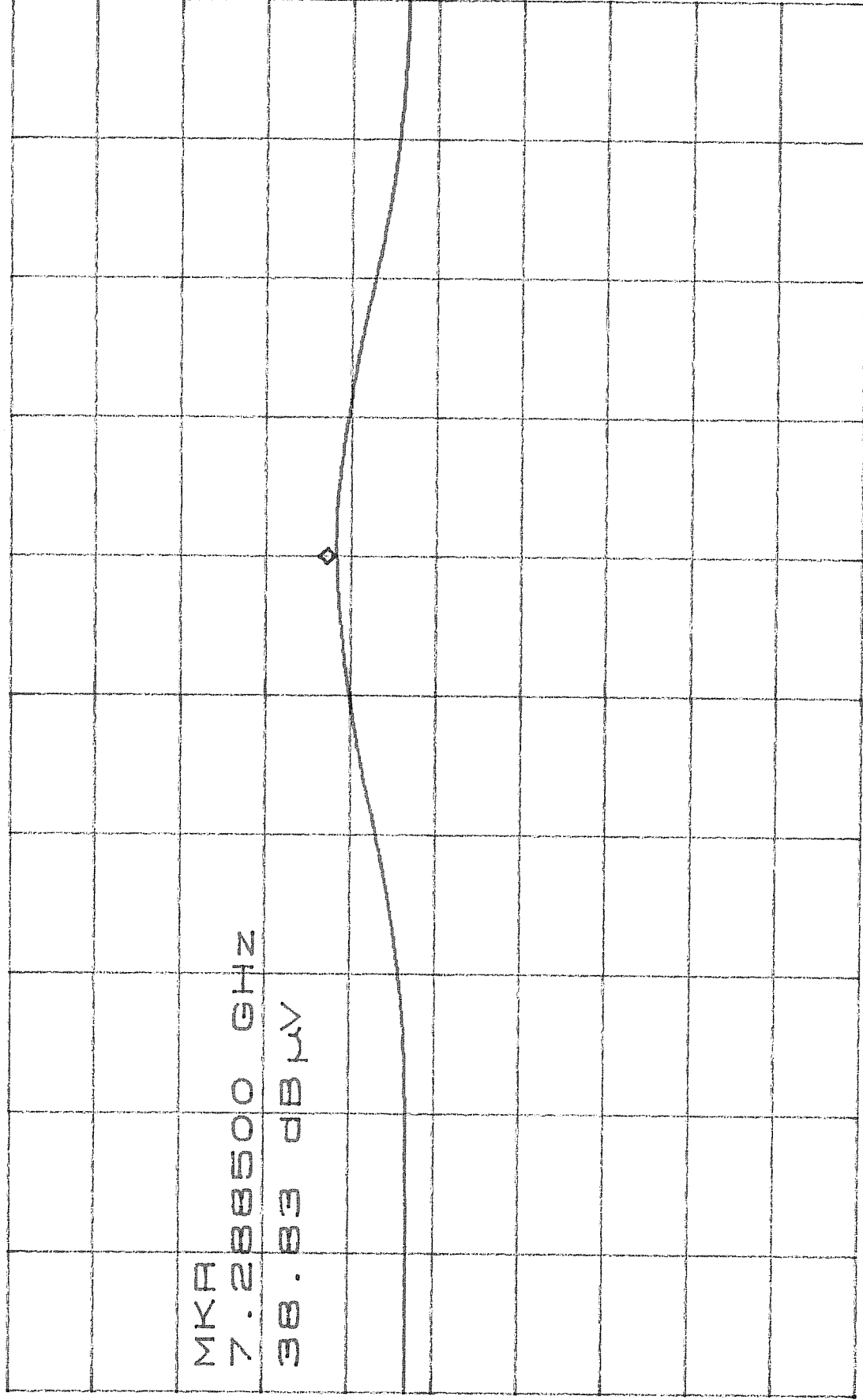
SWP 50.0ms

ATTEN 10dB

PL 77.0dBμV

MKR 38.83dBμV

7.288500GHz



MKR

7.288500 GHz

38.83 dBμV

D

CENTER 7.288000GHz

\*RBW 1.0MHz \*VBW 10Hz

SPAN 5.000MHz

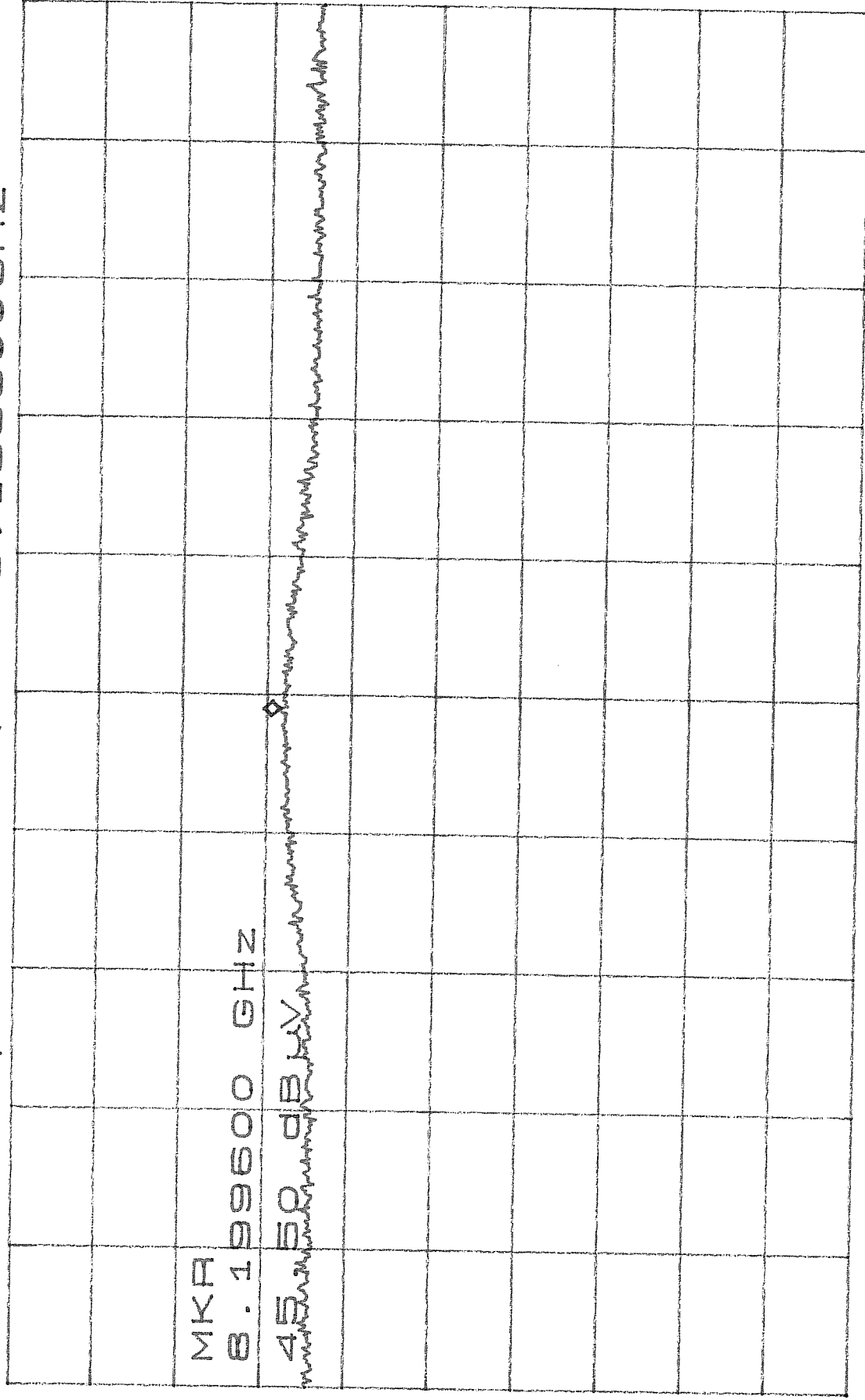
SWP 5.000sec

ATTEN 10dB

MKA 45.50dBμV

RL 77.0dBμV

10dB/  
8.199600GHz



D

CENTER 8.199650GHz

SPAN 5.000MHz

\*RBW 1.0MHz

\*VBW 1.0MHz

SWP 50.0ms

ATTEN 10dB

RL 77.0dBμV

10dB/

MKA 33.50dBμV

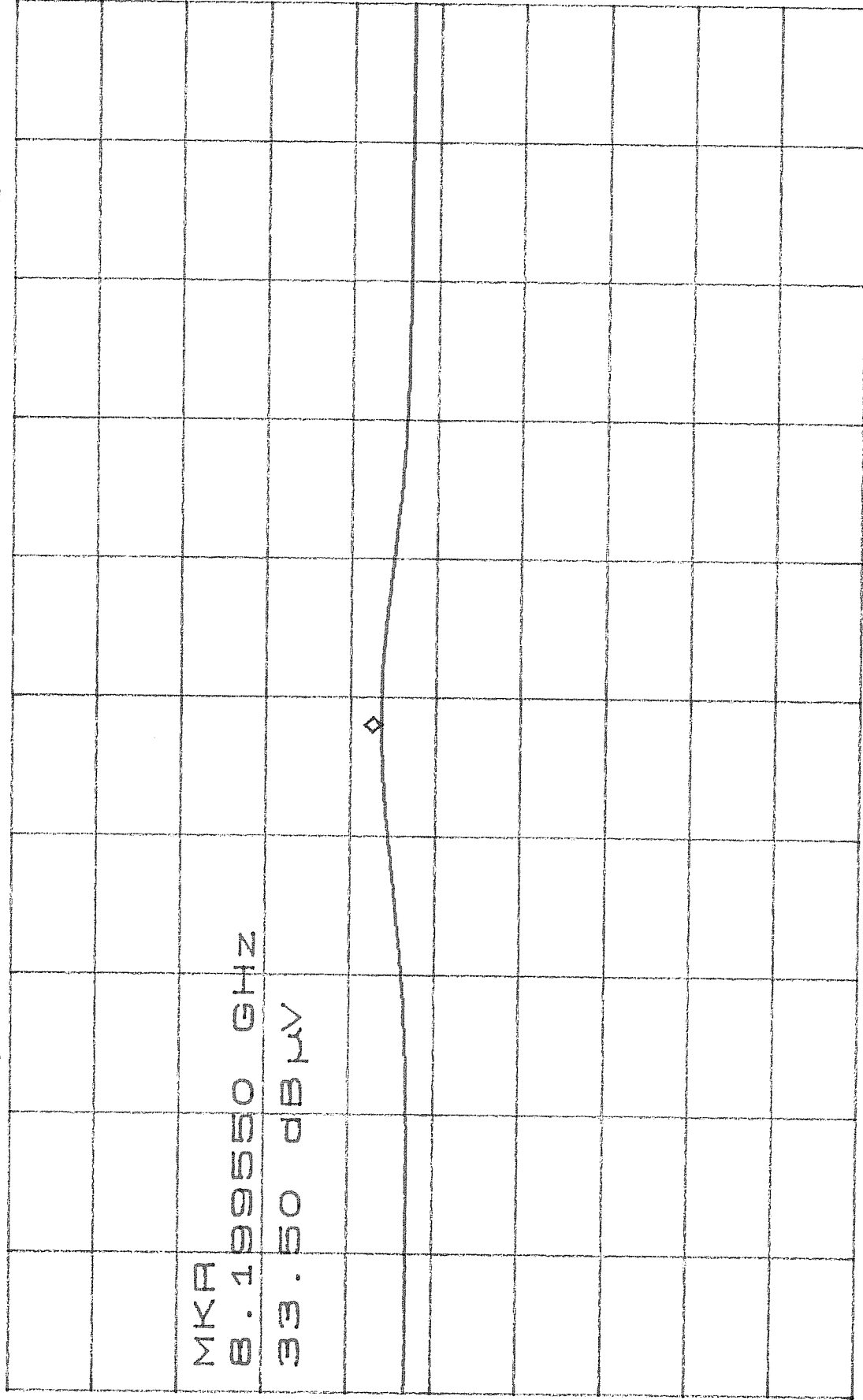
8.199550GHz

MKA

8.199550 GHz

33.50 dBμV

D



CENTER 8.199550GHz

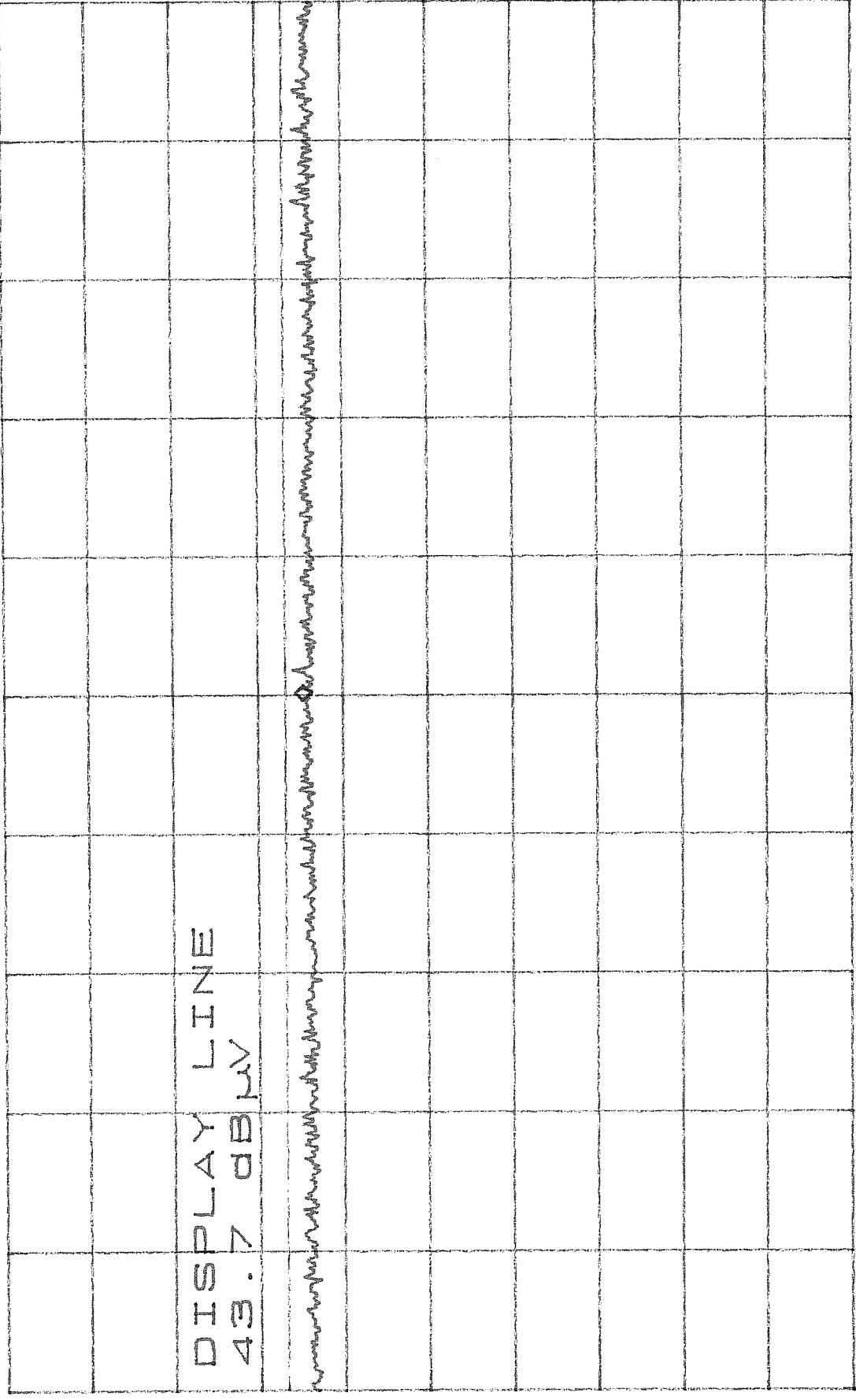
\*RBW 1.0MHz

\*VBW 10Hz

SPAN 5.000MHz

SWP 5.000sec

ATTEN 10dB MKR 40.83dB  $\mu$ V  
RL 77.0dB  $\mu$ V 9.128GHz  
10dB/



START 8.250GHz STOP 10.000GHz  
\*RBW 1.0MHz \*VBW 1.0MHz SWP 50.0ms